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Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: Princeville 53-Acre Site Redevelopment

Project Location: 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886

Federal Agency: U.S. Department of Housing & Urban Development (HUD)

Responsible Entity: North Carolina Office of Recovery and Resiliency (NCORR), P.O. Box 110465, Durham, NC 27709

Grant Recipient: Town of Princeville, North Carolina

State/Local Identifier: B-18-DP-37-0001

Preparer: Andrea Gievers, Environmental SME, NCORR

Certifying Officer Name and Title: Laura H. Hogshead, Director, NCORR

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Project Location:

The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between South Main Street (U.S. Highway 64 Alternate East) and South Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886 (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID #474714756400 which is approximately 29.96 acres and the eastern Parcel ID #474724794700 which is approximately 23 acres, and the privately-owned 1029 Lynch Drive, Parcel ID #474725155200, is approximately 0.32 acres (**Attachment 1**). There will also be work in the public rights-of-way for stormwater infrastructure; water and sanitary sewer connections; ingress/egress access points and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30-inch reinforced concrete piping (RCP) along U.S. Highway 64 West.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**

This proposed project is a HUD Community Development Block Grant – Mitigation (CDBG-MIT) eligible activity pursuant to Section 105(a)(2), *Public Facilities and Improvements* of the Housing and Community Development Act (HCDA) of 1974, which includes: the acquisition, construction, reconstruction, or installation (including design features and improvements with respect to such construction, reconstruction, or installation that promotes energy efficiency) of public works, facilities (except for buildings for the general conduct of government), and site or other improvements.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding through the NCORR Infrastructure Recovery Program for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (such as police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing (Apartments [unit #s to be determined], Townhouses [22 units], and Single-Family Homes [15 units]), a stormwater retention pond, and community open space (**Attachment 1**). The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, and geotechnical investigations; construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure; relocation of utility poles; and landscaping. Proposed stormwater collection systems include wet and dry ponds with forebays, various-sized RCP with grate inlets

and headwalls throughout the site, and outlet structures connecting to 30-inch RCP along U.S. Highway 64 West. The proposed project's site plans are included in **Attachment 1**.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and municipal facilities were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed.

Past hurricane events have historically resulted in flooding most of the Town and the displacement of the majority of the Town's residents. The Town of Princeville sits adjacent to the Tar River and, due to the elevation, has flooded seven times between 1800 and 1958. As a result of Hurricane Floyd in 1999, Princeville experienced catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. Up to twenty feet of water stood in Princeville for nearly 10 days until river levels subsided enough that the floodwaters drained or could be pumped from the Town. Following Hurricane Matthew, the Town of Princeville undertook to find disaster recovery solutions. According to the Project Information Form (PIF), the "Town, through its Hurricane Matthew Planning Process and through Comprehensive Land Use Planning, has arrived at the solution of providing flood-safe infrastructure and housing in areas of higher ground within the Town, and avoiding future repetitive events." The purpose and intent of the project is to relocate the Town's residents, municipal facilities, and commercial enterprises that are affected hardest by flooding and storm surge out of the Tar River floodplain and floodway. There has been widespread community and Town leadership support for the proposed project.

The August 2017 Princeville Community Design Workshop "involved creating visual representations of community development options spanning infrastructure, housing, public facilities, businesses, and community open space on a 53-acre parcel" that was later that year purchased by the State (NC Department of Public Safety [NC DPS] Emergency Management [NCEM]) and deeded to the Town of Princeville (Princeville Hurricane Matthew Recovery Plan [Princeville Recovery Plan], pg. 175). An important piece was to depict how this 53-acre parcel could be physically, socially, environmentally, and economically connected to the existing Town of Princeville and adjacent parcels of land. The workshop included a five-day design process involving a team of architects, land use planners, landscape architects, civil engineers, historians, disaster recovery and hazard mitigation experts, and others. Town of Princeville officials and residents, as well as, a resource team comprised of state and federal agencies, university experts, regional planning organizations, and others informed the work of the design team. The residents and Town officials were "closely involved in the drafting of the design and community development options during the week-long process. This was accomplished through regular feedback sessions held throughout the workshop. Emphasis was placed on flood resilience, social

and community cohesion, equity, history and culture, quality of life, and other key aims identified by the community" (Princeville Recovery Plan, pg. 175). "The design team framed the 53-acre site in the context of a 'Greater Princeville.' This allowed the conversation to shift from a competition between investing in the historic town center versus moving the town center, to reinvesting and protecting a greater community that links old and new" (Princeville Recovery Plan, pg. 175). This vision of a larger and more sustainable community has been a long process to achieve. However, with a focus on key design principles expressed in the identified actionable steps and the implementation of the proposed project, the vision can become a reality.

Existing Conditions and Trends [24 CFR 58.40(a)]:

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021) (**Attachment 7**). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely-wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure similar to the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020) (**Attachment 7**). The residential trailer onsite reportedly burned to the ground in 2019.

The Subject Property is bordered to the north by undeveloped woodland and residences along Lynch Drive in the Southern Terrace neighborhood; to the east by South Shiloh Farm Road with undeveloped woodland across the road; to the south by U.S. 64 Highway and a residence with Faith House Church (formerly Rock Church) and undeveloped fields and woodland located across U.S. 64 Highway; and to the west by two residential properties, an agricultural field, woods, a small cemetery, and South Main Street (U.S. Highway 64 Alternate East) then railroad tracks with a residential neighborhood, undeveloped woodland, and a pond (**Attachment 1A**). Historically, the adjoining properties appear to have been mostly undeveloped fields or woodland and residential. U.S. Highway 64 appears to have been constructed as a four-lane highway sometime between 1994 and 1998. A small engine repair shop was formerly operated in a garage building located on one of the western adjoining properties. A small cemetery is located on a southwestern adjacent parcel where NC DOT relocated graves from the Worsley/Knight Cemetery circa 1994 to enable highway construction (**Attachment 12**). No project activities are proposed at the cemetery parcel.

Funding Information (*Phase One*)

Grant Number	HUD Program	Funding Amount
B-18-DP-37-0001	CDBG-MIT	$9,929,000.00

Estimated Total HUD Funded Amount: $9,929,000.00

Non-HUD Funding Source: NC Office of State Budget & Management Funds:
Non-HUD Funding Amount: $1,500,000.00

Estimated Total Non-HUD Funded Amount: $1,500,000.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:**
$11,429,000.00

Funding Information (*All Phases Estimated*)

Grant Number	HUD Program	Funding Amount
B-18-DP-37-0001	*CDBG-MIT	$6,900,000.00

**A separate environmental review under 24 CFR Part 58 will be completed.*

Estimated Total HUD Funded Amount (HA Winston-Salem project)**:** $6,900,000.00

(***Previous HUD CDBG-MIT Funded Amount for Phase One:*** *$9,929,000.00*)

Estimated Total *All Phases* HUD Funded Amount: $16,829,000.00

Non-HUD Funding Source: Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure and Communities (BRIC) Grant
Non-HUD Funding Amount: $10,970,000.00
Non-HUD Funding Source: NC Dept. of Commerce
Non-HUD Funding Amount: $3,009,536.00

Estimated Total Non-HUD Funded Amount: $13,979,536.00

(***Previous Non-HUD Funded Amounts for Phase One:*** *$1,500,000.00*)

Estimated Total *All Phases* Non-HUD Funded Amount: $15,479,536.00

Estimated Total *All Phases* Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:**
$32,308,536.00

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	Based on guidance provided by HUD Fact Sheet #D1, the National Plan of Integrated Airport Systems (NPIAS) was reviewed for civilian, commercial service airports located near the Subject Property. There are no civilian, commercial service airports located within 2,500 feet of the Subject Property. There are no military airports located within 15,000 feet of the Subject Property. No additional review is required. **Attachment 2:** NEPAssist Airport Map with 15,000-foot Buffer.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	Based on the U.S. Fish and Wildlife Service (USFWS) Coastal Barrier Resources System (CBRS) Map, the Subject Property is not located in or immediately adjacent (within 150 feet) to a CBRS Unit or Otherwise Protected Area (OPA). No additional review is required. **Attachment 3:** USFWS CBRS Map.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel 3720474600J effective on 11/3/2004, the Subject Property is wholly located in Zone X. A Preliminary FIRM (PFIRM) is not

		available for the Subject Property according to the FEMA Map Service Center. The Subject Property is not located within a FEMA-designated regulatory floodway. The Town of Princeville (370318K) is a participating community in good standing in the regular program of the National Flood Insurance Program (NFIP). Since the Subject Property is located in Zone X, outside of a Special Flood Hazard Area (SFHA), flood insurance is not required. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the NFIP. The proposed project is in compliance with flood insurance requirements. **Attachment 4:** FEMA FIRMette with Parcel Boundary and NFIP Community Status Book Report.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	According to the NC Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants (EPA Green Book), Edgecombe County is in a maintenance area for 8-hour Ozone (1997). The construction and operation of the proposed project is exempted from NC State air quality permit requirements under 15A NCAC 02Q. 0102(d) since emissions are anticipated to be below the established thresholds. Thus, the proposed project's emissions are automatically considered de minimis (40 CFR § 93.153(c)(2)) and the proposed project is considered compliant with the State Implementation Plan. The proposed project would not exceed de minimis emissions levels for federal general conformity purposes (40 CFR §93.153(c)(2)). The proposed project is not anticipated to

		generate additional vehicular traffic since the proposed project involves relocating residents as well as commercial and municipal facilities to an area of the Town that is not subject to severe flooding. The proposed project will not result in siting a new industrial or other major source of air pollutants. The air emissions should be comparable to other similarly-sized residential, municipal and commercial developments. Construction-related activities (land clearing, grading) can cause short-term exposures to sensitive receptors from particulate matter (PM 10) such as fugitive dust and emissions from construction equipment. Mitigation measures for dust control will be implemented to reduce potential impacts to air quality during construction. The proposed project will conform to NC Air Quality Management regulations during and following construction. The contractor will use Best Management Practices (BMPs) to reduce fugitive dust generation and diesel emissions. BMPs can include wetting the grading site during dry conditions; maintaining vegetative cover as much as possible around cleared areas; a water truck to stabilize potential dust during high traffic times or high wind days on heavily-travelled access roads and storage areas; and operating construction vehicles and machinery at reduced speeds to reduce soil disturbance and fugitive dust potential. BMPs to mitigate the generation of emissions during construction include limiting use of vehicles and other machinery to construction hours only and removal once construction is completed. Therefore, the proposed project, during construction and operation, is not anticipated to have significant adverse impacts to air quality. Thus, the proposed project is in

		compliance with this section. **Attachment 5**: NC Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants (EPA Green Book) and NEPAssist Map Showing Nonattainment Areas. *See also, Recent Updates: Federal Register Notices Published or Effective After November 30, 2023 | Green Book | US EPA online.*
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The Subject Property is located in Edgecombe County which is *not* one of the 20 coastal counties included in the North Carolina Coastal Management Program. Therefore, the proposed project is not anticipated to impact coastal resources. A Consistency Determination is *not* required to be submitted to the NC Division of Coastal Management (DCM). DCM carries out the State's Coastal Area Management Act (CAMA), the Dredge and Fill Law and the federal Coastal Zone Management Act of 1972 in the 20 coastal counties, using rules and policies of the NC Coastal Resources Commission, known as the CRC. No further action is required. The proposed project is in compliance with the Coastal Zone Management Act, sections 307(c) & (d). **Attachment 6**: NC DCM Counties List and Maps.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	A Phase I Environmental Site Assessment (ESA) dated May 24, 2023 was completed and no Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), Historic RECs (HRECs) or Significant Data Gaps (SDGs) were identified in connection with the 53-acre portion of the Subject Property. A review of the Phase I ESA for the adjacent 53-acre site, historical aerial photographs, and deed for the 1029 Lynch Drive parcel are included in **Attachment 7** and did not identify any concerns. ***If the 1029 Lynch Drive parcel is***

		acquired for the proposed project, then a Phase I ESA is required. Any identified RECs, CRECs, and HRECs for the 1029 Lynch Drive parcel must be properly addressed and remediated, as required. Additional reports and a re-evaluation under 24 CFR Part 58 might be required. A site inspection was conducted at the 53-acre portion of the Subject Property on May 2, 2023 by Mr. Allen McColl, and no hazards were identified. The 53-acre site is currently a mostly undeveloped field/ recently logged land containing dense vegetation with a few trees remaining and some new growth, smaller trees. A 2019 Phase I ESA had observed debris, foundations, and dilapidated structures along the southeastern portion of the 53-acre site thought to be associated with former homesteads or farm structures. These were *not* observed during the 2023 Phase I ESA. The 1029 Lynch Drive parcel was historically wooded and in 1994 a residential structure was located on the site. A site inspection in November 2020 found the trailer burned to the ground and the only thing left was the chassis. According to a source, the trailer burned the previous year (2019). According to the NC Department of Environmental Quality (DEQ) Underground Storage Tanks (UST) Section, the Petroleum UST and Non-UST Databases did *not* indicate any petroleum releases within the Subject Property (**Attachment 28**). ***No structures were observed but if suspect asbestos-containing materials (ACM) is found during redevelopment, it should be assumed to contain asbestos until laboratory analysis can confirm or deny their asbestos content. Demolition of structures containing ACM must be in compliance with 15A NCAC 20.1110(a)(1) which requires notification to the NC Department of Health and Human***

		Services' Health Hazards Control Unit (HHCU) and removal prior to demolition (Attachment 28). In the event that unexpected contaminated or potentially hazardous materials, soils or debris are encountered during redevelopment, work in the area shall cease immediately, and the work area shall be secured. (See also, NC DEQ UST Section protocol included in the State Environmental Clearinghouse Comments in Attachment 28). The appropriate NC DEQ Regional Office will be contacted and the contamination assessed with an environmental consultant. Appropriate measures will be taken to address the hazard(s) (i.e., contaminated soils, hazardous debris, USTs, lead-based paint, ACM, etc.) which will be characterized by type and properly disposed of in the appropriate NC DEQ Division of Waste Management (DWM) approved facility in accordance with federal, state and local laws and regulations (e.g., RCRA Subtitles C and D, NESHAP 40 CFR 61.150, and NC Solid Laws NCGS 130A, and NC Hazardous Waste Rules 15A NCAC 13A). The NC DEQ DWM strongly recommends that the Town require all contractors to provide proof of proper disposal for all waste to permitted facilities. ***The NC DEQ Washington Regional Office requires notification if "orphan" USTs are discovered during any excavation operation or if petroleum USTs or ASTs are proposed (Attachment 28). Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, state, and federal regulations. If any abandoned wells are discovered, then NC DEQ will be notified and abandoned in accordance with Title 15A. Subchapter 2C.0100. "Any open burning associated with the subject proposal must be in compliance with 15A NCAC 2D.1900" (Attachment 28).***

		According to NEPAssist, the Subject Property is not listed on an EPA Superfund National Priorities or Comprehensive Environmental Response Compensation and Liability Act (CERCLA) List, or equivalent State list (**Attachment 7**). The NC DEQ DWM Site Locator Screening Report does not identify a toxic or solid waste landfill (including pre-regulatory landfill sites) within 3,000 feet of the Subject Property (**Attachment 7**). According to NEPAssist, there are no Brownfields, Superfund, Toxic Release Inventory (TRI), water discharger (NPDES), or air emission sites within a *one-mile* radius of the Subject Property (**Attachment 7**). According to NEPAssist, there is one hazardous waste (RCRA) facility located within *one mile* of the site. The **TCC LLC Property** at 194 Concrete Road, Tarboro is located approximately 0.66-mile from the Subject Property and listed as an inactive RCRA facility. There are no reported violations in connection with the facility's operations according to the ECHO Facility Report. According to the NC DEQ DWM Site Locator Screening Report, there is one Pre-Regulatory Landfill Site (**Princeville Dump**), one UST Incident (**Village Mart**), and two Non-UST Incidents (**Sygma Spill** and **KM Pulley Trucking** [no documentation available]) located within *one mile* of the Subject Property. Due to the distance from the Subject Property, groundwater and surface flow directions, regulatory/ compliance status, and size/type of potential contamination, the **TCC LLC Property, Village Mart** and **KM Pulley Trucking** sites do not pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property (*see,* **Attachment 7**). According to the NC DEQ DWM comment, there is one Superfund section site, **Princeville Dump**, and no

		Brownfields Program sites located within *one mile* of the Subject Property. The **Princeville Dump** on Jenkins Street was closed in 1974, and is located over 5,000 feet and approximately 0.95-mile from the Subject Property. The Subject Property is topographically upgradient with U.S. Highway 64 and U.S. Highway 64 Alternate East in between it and the **Princeville Dump**. Due to the distance from the Subject Property, groundwater and surface flow directions, and type of potential contamination, the **Princeville Dump** does not pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property. According to NEPAssist, there are no hazardous sites or EPA Facilities located within a *0.5-mile* radius of the Subject Property. Based on the NC DEQ DWM Site Locator Screening Report, there is one Non-UST Incident (**Sygma Spill**) and no other hazardous sites located within a *0.5-mile* radius of the Subject Property. The **Sygma Spill** refers to a June 17, 2015 Sygma Network truck accident resulting in 40-50 gallons of diesel fuel spilled onto the U.S. Highway 64 shoulder. The contaminated soil was removed and no groundwater was affected. Due to the distance from the Subject Property, type and nature of contamination, and compliance status, this site does not pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property. Based on the EPA's Radon Zone Map, the Subject Property is located within Zone 3 with predicted average indoor radon screening levels less than 2 pCi/L (Low Potential) (**Attachment 7**). Due to the low potential for elevated indoor radon levels, no additional steps are required for radon

		mitigation. However, testing for radon is the only way to determine radon levels in buildings. Preventing the entry of radon into a building is the most effective way of protecting building residents. This can be done in new buildings by incorporating radon-resistant construction protocols and in existing buildings by using underground collection systems that vent the gas into the atmosphere through an exterior pipe. Radon levels within buildings can also be reduced by increasing ventilation rates. Based on the Phase I ESA, site visit, review of available environmental and historical records for the Subject Property and surrounding area, and mitigation measures, the Subject Property is unlikely to contain hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property. Therefore, a Phase II Investigation is not warranted at this time. **Attachment 7:** Phase I ESA Report (May 24, 2023), 1029 Lynch Drive Historical Aerial Photographs and Deed, NEPAssist EPA Facilities with 1-mile Buffer, Facility Reports, NC DEQ DWM Site Locator Screening Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, and NC EPA Radon Level Map. *See*, **Attachment 28:** State Environmental Clearinghouse Comments.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	The USFWS Information for Planning and Consultation (IPaC) Official Species List identified a total of eight proposed, threatened, endangered, or candidate species, seven migratory Birds of Conservation Concern (BCC), and the Bald Eagle as species with the potential to occur within the vicinity of the Subject Property. The eight proposed, threatened, endangered, or

		candidate species include two mammals (Northern Long-eared Bat [NLEB] and Tricolored Bat), one amphibian (Neuse River Waterdog), one fish (Carolina Madtom), three clams (Atlantic Pigtoe, Green Floater, and Yellow Lance), and one insect (Monarch Butterfly). The NC Natural Heritage Program (NHP) database query report identified no federal or State-listed species within one mile of the Subject Property. Based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the Subject Property. There are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. None of the above-listed species or potential habitat were observed during the site visits. The 53-acre site is currently a mostly undeveloped field/ recently logged land containing dense vegetation with a few trees remaining and some new growth, smaller trees. The site plans identify approximately *12 trees* that will be removed from the 53-acre site and *5 trees* from the residential 1029 Lynch Drive parcel. The Subject Property appears in historical aerial photos to be recently cleared (2016) and the Phase I ESA noted the 53-acre site was undeveloped and appears to be recently cleared (2017 – 2021). Thus, the site is no longer densely-forested woodland. The NC NHP was consulted for additional information on the NLEB and Tricolored Bat. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, there are no documented Tricolored Bat in the area. There are no documented NLEB hibernacula within 0.25 mile of this project boundary or

		NLEB maternity roost trees within 150 feet of this project boundary. The NLEB Determination Key resulted in a "**May Affect, Not Likely to Adversely Affect**" determination. Due to the dense vegetation, there is potential habitat for the Monarch Butterfly but no species or milkweed were observed during the site visits. According to the U.S. Army Corps of Engineers (USACE), there is "one jurisdictional wetland identified in the southwestern corner of the site." There are no other wetland features located on the Subject Property. Two ephemeral streams were reviewed by the NC DEQ Division of Water Resources (DWR) and have been "determined to not be at least intermittent or is not present." Thus, these are not sufficient streams or wetland to provide suitable habitat for the one fish (Carolina Madtom) and three clams (Atlantic Pigtoe, Green Floater, and Yellow Lance) identified in the IPaC Official Species List. In addition, there are no proposed activities in the onsite wetland (**Attachment 1**). It is anticipated that effects on migratory birds will be limited because a small number of trees will be removed during construction, and any migratory birds in the area will temporarily leave the area during construction. Therefore, "**No Effect**" determinations for proposed/ listed species and/ or proposed/ designated critical habitat except for "**May Affect, Not Likely to Adversely Affect"** the Northern Long-eared Bat, proposed Tricolored Bat, and Monarch Butterfly determinations, and a "**No Eagle Act Permit Required**" determination for Bald Eagles were made. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on November 2, 2023. According to the Self-certification Letter, Mr. Pete Benjamin, Field Supervisor of the USFWS

		Raleigh FO, indicated the following: "Therefore, we concur with the 'no effect' or 'not likely to adversely affect' determinations for proposed and listed species and proposed and designated critical habitat; the 'may affect' determination for Northern long-eared bat; and/or the 'no Eagle Act permit required' determinations for eagles. Additional coordination with this office is not needed." USFWS has not contacted NCORR for additional information. **The Subrecipient will update this determination annually for multi-year activities.** BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping, and a stormwater retention pond installed. Additionally, the proposed project can implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall, and remove/control invasive plant species present. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the environmental review record (ERR) when received from the permitting agencies. **Attachment 8:** USFWS and NCORR Correspondence and USFWS Raleigh FO 10-step Project Review Package.

Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☒ No ☐	The proposed project does not include the development of a hazardous facility (i.e., a facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage facilities or refineries). The proposed project does include development and construction that will increase residential densities. The Volunteer Fire Department and the Tarboro Fire Department were contacted but did not yield information pertaining to the location of aboveground storage tanks (ASTs) within one mile of the Subject Property. Google Earth and aerial photographs were used for an AST review within one mile of the Subject Property. One diked AST site was identified located at the Edgecombe-Martin County Electric Membership Corporation (EMC), 679 NC-33, Tarboro, NC. According to EMC staff, there is one 10,000-gallon diesel AST and one 10,000-gallon gasoline AST at their site. Based on the HUD Acceptable Separation Distance (ASD) Assessment Tool, the Subject Property is located an acceptable distance (over 3,000 feet) from this AST site, with a 134.85-foot Thermal Radiation for People ASD and 22.82-foot Thermal Radiation for Buildings ASD. A Thermal and Explosive Hazards Worksheet and the HUD ASD Assessment Tool Results were completed documenting that these ASTs are located well outside of the Acceptable Separation Distance for the Subject Property. The proposed project is in compliance with explosive and flammable hazard requirements. ***If any ASTs are included later in the proposed multi-phase project, then the AST(s) will be buried underground or, if that is not possible, then ensured to meet HUD's ASD requirements. The NC DEQ Washington Regional Office requires notification if petroleum USTs or ASTs are proposed (Attachment 28). Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable***

		local, State, and federal regulations. **Attachment 9:** Signed HUD Thermal and Explosive Hazards Worksheet, AST Aerial Map with 1-mile Radius and Showing Distance to EMC, NCORR Telephone Conversation Record, and HUD ASD Assessment Tool Results.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	According to the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey, the soils on the Subject Property consist of Altavista fine sandy loam (AaA), 0 to 3 percent slopes (Prime Farmland); Conetoe loamy sand (CeB), 0 to 4 percent slopes (Farmland of Statewide Importance); Roanoke loam (Ro) (Farmland of Statewide Importance); State loamy sand (StB), 0 to 4 percent slopes (Prime Farmland); and Wickham sandy loam (WkB), 0 to 4 percent slopes (Prime Farmland). The 1029 Lynch Drive parcel contains AaA soil, but was developed as part of a residential development known as Southern Terrace. In accordance with the Farmland Protection Policy Act of 1981 (FPPA), particularly sections 1504(b) and 1541 and 7 CFR Part 658, the USDA AD 1006 Farmland Conversion Impact Rating Form and proposed project information were submitted to the USDA NRCS for review on November 1, 2023. USDA NRCS Resource Soil Scientist, Ms. Laurie F. Muzzy, responded in a letter on December 4, 2023 that the "area in question **does include** land classified as Prime or Important Farmland. In accordance with the Code of Federal Regulations 7 CFR 658, Farmland Protection Policy Act, the AD 1006 was initiated. NRCS has completed Parts II, IV, V of the form, and returned for completion by the requesting agency." NCORR completed and sent the USDA AD 1006 Farmland Conversion Impact Rating Form to USDA

		NRCS for their records. USDA NRCS and NCORR completed the proposed project's USDA AD 1006 Farmland Conversion Impact Rating Form using the land evaluation and site assessment (LESA) criteria to establish a **Relative Value of 59.56 out of 100 points, Total Site Assessment Points of 69 out of 160, and a combined Total Points of 128.56**. According to the FPPA Manual Subpart B Program Activities and Requirements, 523.33 Site Selection and Alternatives (A) [f]or site-specific projects, **if the total of points according to the LESA criteria is less than 160, no other alternatives need be considered** (emphasis added). According to FPPA, 7 CFR 658.2 Definitions "'Farmland' does not include land already in or committed to urban development or water storage….Farmland 'committed to urban development or water storage' includes all such land that receives a combined score of 160 points or less from the land evaluation and site assessment criteria." Under **Section 523.10(B) Lands Not Subject to Provisions of FPPA**, [t]he following lands are not covered by the act: **(1) Lands that receive a combined score of less than 160 points from the LESA criteria** (emphasis added). The Subject Property has been determined to be exempt from the FPPA. Thus, no further review is required. The proposed project is in compliance with this section. **Attachment 10:** Completed USDA AD 1006 Farmland Conversion Impact Rating Form, USDA NRCS and NCORR Correspondence, and NCORR USDA NRCS Review Package.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	Based on the FEMA FIRM panel 3720474600J effective on 11/3/2004, the Subject Property is located in Zone X. A PFIRM is not available for the Subject Property according to the FEMA Map

		Service Center. The Subject Property is not located within a FEMA-designated regulatory floodway. The Town of Princeville (370318K) is a participating community in good standing in the regular program of the NFIP. Since the Subject Property is located in Zone X, outside of a SFHA, the proposed project is in compliance with this section. **Attachment 11:** FEMA FIRMette with Parcel Boundary.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	According to the Town of Princeville website, "Princeville's town hall, originally built as a schoolhouse in the 1920s, was badly damaged, and past floods destroyed many other older structures. ***Princeville, for much of its history, has been so concerned about survival that historic preservation has been almost impossible"*** (emphasis added). The North Carolina State Historic Preservation Office (NC SHPO) was consulted for a concurrence that the proposed project would result in "No Historic Properties Affected" pursuant to 36 CFR 800.4(d)(1). NCORR submitted the proposed project to the NC SHPO via email to the State Environmental Clearinghouse on November 3, 2023. The NC SHPO responded in a letter dated December 4, 2023 stating "[w]e have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed." According to the HUD Tribal Directory Assessment Tool (TDAT), the Catawba Indian Nation and the Tuscarora Nation are the only federally-recognized Tribes with interests in Edgecombe County, North Carolina. NCORR sent a Section 106 review

		package to the Catawba Indian Nation's Chief and Tribal Historic Preservation Office (THPO) on November 1, 2023. The Catawba Indian Nation's THPO responded on December 4, 2023 that the "Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**" NCORR sent a Section 106 review package to the Tuscarora Nation's Chief Tom Jonathan and THPO on November 1, 2023. If a response is received, then it will be appended to the ERR. The proposed project is in compliance with this section. **Attachment 12:** SHPO Response; NCORR SHPO Submission Package; HUD TDAT Results; Catawba Indian Nation THPO Response; Catawba Indian Nation Chief and THPO Section 106 Review Packages; and Tuscarora Nation Chief and THPO Section 106 Review Packages.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The proposed project does not involve siting a noise generating facility. The operation of the proposed project will not significantly increase noise levels in the area. The proposed multi-phase project involves new construction for residential use so the surrounding area was screened for noise generators. The Subject Property is located within 1,000 feet of U.S. Highway 64 West, U.S. Highway 64 Ramp, U.S. Highway 64 Alt. East, and S. Shiloh Farm Road which have NC Department of Transportation (NC DOT) Average Annual Daily Traffic (AADT) data available. There is one CSX Transportation (CSX) railroad track located within 3,000 feet of the Subject Property. According to the U.S. DOT Crossing Inventory Form for the nearest at-grade

		crossing, there are zero total trains during day and nighttime hours. Therefore, the CSX railroad was not included in DNL calculations. There is one airport located within 15 miles of the Subject Property: Tarboro-Edgecombe (5.2 miles). According to the FAA 5010 Airport Master Record and completion of the HUD Airport Noise Worksheet, it is "assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airport" and does not require evaluation. A HUD Noise Assessment was completed in accordance with HUD's Noise Assessment Guidelines to quantify the noise exposure at the Subject Property (**Attachment 13**). Four Noise Assessment Locations (NALs) were chosen based on their noise-sensitive use and close proximity to noise generating sources. The HUD Day/Night Noise Level (DNL) Assessment was completed using NC DOT Current (2021) and Projected 2035 (12-year) traffic projections for "major roads" with AADT within 1,000 feet of the Subject Property (**Attachment 13**). The Combined DNLs for all NALs are within the HUD **Acceptable** noise level range (65 dB or less) for Current and Projected 2035 (12-year) traffic projections. The Current combined DNLs were **60** dB for NAL B, **59** dB for NAL B2, **58** dB for NAL E, and **60** dB for NAL F. The Projected 2035 (12-year) combined DNLs were **61** dB for NAL B, **60** dB for NAL B2, **59** dB for NAL E, and **61** dB for NAL F. No further action is required. ***The HUD Noise Assessment will need to be updated if noise-sensitive use NALs are added or moved closer to the major roads during the proposed multi-phase project.*** Short-term construction work will adhere to local noise control standards and regulations. Construction noise will be limited to daytime hours, Monday through Friday, except in

		emergency situations. Construction equipment will be required to meet local sound control requirements. The proposed project is in compliance with HUD's noise regulations in 24 CFR 51 Subpart B. **Attachment 13:** HUD Noise Assessment
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no sole source aquifers located in North Carolina according to the U.S. EPA. No further action is required. The proposed project is in compliance with this section. **Attachment 14:** U.S. EPA Sole Source Aquifers Map.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☒ No ☐	According to the USFWS National Wetland Inventory (NWI) Map, there are federally NWI-mapped wetlands on the Subject Property. According to the U.S. Army Corps of Engineers (USACE), there is "one jurisdictional wetland identified in the southwestern corner of the site." The wetland is an approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A). There are no other wetlands, including HUD-defined wetlands, located on the Subject Property. The NC DEQ commented through the State Environmental Clearinghouse that compliance is required with T15A 02H.0500 Certifications whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR Part 323. Additionally, NC DEQ noted that if wetland or stream impacts are proposed, then the project must comply with a USACE 404 permit, 401 Water Quality Certification authorization, and a riparian buffer authorization. As designed, the proposed construction will not encroach into the wetland. The NC DEQ DWR reviewed the proposed project including two onsite ephemeral streams and determined them to not be at least intermittent or not present (**Attachment 15**). The NC DEQ DWR

		determined that the proposed project is not subject to the CWA Section 401 permit and Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no direct or indirect, temporary or permanent wetland impacts are proposed, then Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required. Compliance with 24 CFR 55 and Executive Order (EO) 11990 is required because an incidental wetland is located on the Subject Property. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Additionally, the proposed project can implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall, and remove/control invasive plant species present. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the ERR when received from the permitting agencies. **Attachment 15:** EO 11990 Wetlands Protection Determination.

Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The proposed project will not affect a study or listed National Park Service (NPS) Nationwide Rivers Inventory (NRI) or Wild and Scenic River (WSR) System river or river segment. According to the NRI and WSR Maps, there are no listed river segments located within one mile of the Subject Property. The proposed project is in compliance with this section. **Attachment 16:** NEPAssist NRI and WSR Map with 1-mile Buffer, NRI Map, and WSR Map. *See,* Eligible and Suitable Rivers Map, at https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=df0f4455dc5f41bb919a3a1a49c60174
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	According to the American Community Survey (ACS) for the Subject Property's census block of 1,520, there is an approximately 95.99% minority population and 48.30% low-income population, both of which are higher than State and national averages. According to the EJScreen Community Report for a 2-mile radius from the Subject Property (Princeville, NC), there is an approximately 86% minority population and 54% low-income population, both of which are higher than State and national averages. According to the NC DEQ Community Mapping System, the Subject Property is located in the NC DEQ's Potentially Underserved Block Groups 2019. According to the Edgecombe County Hurricane Matthew Resilient Redevelopment Plan (pg. 3-11), Princeville "has flooded multiple times since Hurricane Floyd and strained the resources of underserved residents who often are unable to pay for home elevations or new homes outside of flood zones. Recovery and

		prevention from hurricane and flood impacts tends to be more difficult in these communities. Over time, recurring impacts strain the mental and physical capabilities of residents and further damage communities." No adverse environmental impacts were identified during the proposed project's 24 CFR 58 environmental review. The proposed project does not facilitate development which would result in disproportionate adverse environmental impacts on low-income or minority populations. Rather, this proposed project will provide a safer place for residents and commercial and municipal facilities in the Town of Princeville that is less prone to future storm damage and flooding. Thus, the proposed project does not contribute to or promote environmental injustice. The proposed project is in compliance with Executive Order 12898. **Attachment 17:** NC DEQ Community Mapping System Results, EJScreen Community Report, EJScreen ACS Summary Report, EJScreen Census 2010 Summary Report, Executive Order 13146 – President's Council on the Future of Princeville, North Carolina, and CDC Report for Edgecombe County.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]:

Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	1	The Subject Property consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive in the Town of Princeville, Edgecombe County, North Carolina. The 53-acre site was acquired by the State (NCEM) and transferred to the Town in 2017. According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres. The privately-owned 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres. There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30” RCP along U.S. Highway 64 West.

		The Subject Property is currently shown as zoned R1 by the Town of Princeville (northern portion of the 53 acres and 1029 Lynch Drive) and AR-30 Rural Residential according to the online Edgecombe County zoning map (southern portion of the 53 acres). According to the Princeville Final Comprehensive Plan, "the vast majority of the land area in Princeville is zoned R1, which is intended for single-family residential, recreation, and institutional uses." Specifically, according to the Princeville Zoning Ordinance (December 30, 2021), R1 permitted uses include single- and two-family dwellings, public recreational facilities, public utilities, and schools. Special Use Permits are available for group housing projects, fire and police stations, and multi-family dwellings. According to the Edgecombe County Ordinance 9-1.2(A), the "AR-30 rural residential district is primarily intended to accommodate a variety of low density single-family detached dwellings, class A, B, and C manufactured homes on large lots, in areas without access to public water and sewer services, and in areas where soil characteristics necessitate low density development. The AR-30 district requires a minimum lot size of 30,000 square feet." According to the Town and Stewart, Inc., there were discussions in 2022 on updating the zoning district for the 53-acre site along with the Zoning Ordinance and Extra-Jurisdictional Territory (ETJ) zoning area (*see*, proposed changes in **Attachment 18**). ***Prior to construction, the Town will ensure the ETJ zoning area is expanded, Town's Zoning Ordinance is updated, and the zoning district classification at the 53-acre site is updated to MXU Mixed-Use District or another compatible district(s) to encompass the proposed project's characteristics in accordance with all applicable laws and regulations.*** The Town will be expanding their ETJ zoning area, updating the Town's Zoning Ordinance, and rezoning the 53-acre site as a MXU Mixed-Use District as shown on the Future Land Use Map (pg. 36) in the Town of Princeville's Final Comprehensive Plan (Town's Plan) adopted September 20, 2021 and **Attachment 18**. The MXU Mixed-Use District accommodates commercial, civic and residential uses. Commercial uses include highway-orientated businesses, retail, restaurants and

		offices. A variety of residential options are allowed including apartments, townhomes, and single-family dwellings with higher densities near these commercial areas to promote walkability. The Subject Property's frontage on U.S. Highway 64 West makes it particularly suitable for mixed-use development. In the Town's Plan, Land Use Policy (LUP) 4.3 is to "establish a mixed use zoning district to apply to the 53 acres" (pg. 39) and LUP 9.2 is to "create a new mixed-use zoning district to accommodate future development on town-owned lands" (pg. 43). According to the Town's Plan under Recovery Efforts (pgs. 22-23), the proposed project is one of thirteen ongoing recovery projects in process since 2017 listed that will provide relief to flood-impacted residents and municipal facilities. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site which is located outside of the 100-year floodplain will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Therefore, the proposed project is in accordance with the Town's plan and vision for a safer and more sustainable and successful "Greater Princeville." **Attachment 18:** Princeville Zoning Map, Edgecombe County Parcel Maps Showing ETJ and Zoning Districts, Recovery Efforts and Study Area Map from Town's Plan, Proposed Zoning and ETJ Zoning Maps, and Proposed Changes to Zoning Ordinance. *See,* Town of Princeville's Final Comprehensive Plan, adopted September 20, 2021, at https://file.ac/jki-sdtGtUw/ and Edgecombe County Comprehensive Plan 2014-2034.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	According to the USDA NRCS Soil Suitability Classifications for Dwellings Without Basements and Small Commercial Buildings, the soils on the proposed project are classified as follows: Altavista fine sandy loam, 0 to 3 percent slopes – *Very Limited*; Conetoe loamy sand, 0 to 4 percent slopes – *Not Limited*; Roanoke loam – *Very Limited*; State loamy sand, 0 to 4 percent slopes – *Very Limited*; and Wickham sandy loam, 0 to 4

		percent slopes – *Very Limited*. Factors contributing to these classifications include flooding and depth to saturated zone. A Preliminary Geotechnical Report was prepared in 2019 by S&ME and noted that "[b]ased on the results of the widely-spaced soil test borings, assumed structural loads, and assumption that the site is prepared as recommended," the "proposed buildings can be supported on a shallow spread foundation system." A final geotechnical exploration and report will be completed for pre-construction site preparation. The Subject Property's soil conditions will be assessed using additional test borings, test pit excavations, laboratory testing, and engineering analyses to determine the amount and type of fill materials needed and what subsurface support building foundations will require to ensure building stability and reduce erosion potentials. ***Any fill material must come from an approved source, and applicable NC regulations on erosion control permit might apply. The soils will be confirmed to be "clean" fill and that it meets project requirements prior to importing the material. The proposed project will be designed in a way to balance the grading and not require as much off-site material, if possible. Any soil removed from the site will be quantified and only exported to an approved site per NC requirements.*** The proposed project's activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Permits required for the proposed project, such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000), shall be obtained before commencing work and appended to the ERR. The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. The required erosion and sedimentation control plan is included in **Attachment 1**. The plan must be filed with and approved by the applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. Proposed stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S.

		Highway 64 West. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and an onsite stormwater retention pond installed. Thus, measures will be implemented to minimize impacts on soil suitability, slope, erosion, drainage, and stormwater runoff from the proposed project. Therefore, the proposed project is not expected to adversely impact soil suitability, slope, erosion, drainage, and stormwater runoff at the Subject Property or surrounding area. **Attachment 19:** Preliminary Geotechnical Report and USDA NRCS Soil Survey Soil Suitability Classifications.
Hazards and Nuisances including Site Safety and Noise	2	Based on the Phase I ESA, site visit, review of available environmental and historical records for the Subject Property and surrounding area, and mitigation measures, the Subject Property is unlikely to contain hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property. Therefore, a Phase II Investigation is not warranted at this time. (*See*, Contamination and Toxic Substances section.) Construction-related activities can cause short-term exposures such as fugitive dust and emissions. The proposed project will conform to NC Air Quality Management regulations during and following construction. It is recommended that construction activities are conducted in a manner to ensure acceptable air quality during these activities (e.g., through minimization of volatile organic compounds and nitrogen oxides emissions, mindful operation of gas-powered construction equipment to avoid prolonged idling, or fugitive dust management during construction). The contractor will use BMPs to reduce fugitive dust generation and diesel emissions. (*See*, Clean Air Act section.) A HUD Noise Assessment completed for the proposed project resulted in combined DNLs for all NALs within the HUD **Acceptable** noise level range (65 dB or less) for Current and Projected 2035 (12-year) traffic projections. No further action is required. ***The HUD Noise Assessment will need to be updated if noise-sensitive use***

		NALs are added or moved closer to the major roads during the proposed multi-phase project. The proposed project activities are not expected to generate excessive noise during the short-term construction work nor long-term operation. Short-term construction work will adhere to local noise control standards and regulations. Construction noise will be limited to daytime hours, Monday through Friday, except in emergency situations. Construction equipment will be required to meet local sound control requirements. (*See*, Noise Abatement and Control section.) The proposed project activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Therefore, the proposed project is not expected to generate any hazards, nuisances or noise impacts. *See*, **Attachment 7:** Phase I ESA Report (May 24, 2023), 1029 Lynch Drive Historical Aerial Photographs and Deed, NEPAssist EPA Facilities with 1-mile Buffer, Facility Reports, NC DEQ DWM Site Locator Screening Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, and NC EPA Radon Level Map; **Attachment 13:** HUD Noise Assessment; and **Attachment 28:** State Environmental Clearinghouse Comments.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	The proposed project should have a beneficial effect on employment opportunities, income patterns, and customer/ employee access to future businesses and municipal facilities proposed for the 53-acre site. The Subject Property will accommodate commercial, municipal and residential uses. Commercial uses include highway-orientated businesses, retail, restaurants and offices. A variety of residential housing options with higher densities will be closely located near these commercial areas to promote walkability. According to the Princeville Recovery Plan (pg. 32), Princeville residents have income below State and regional averages, and "[f]ostering new business opportunities nearby, to include the 53-acre site or other locations outside the 100-year floodplain offer

		promise as major employment activities are located in close proximity (commuting distances ranging from about two miles to 15 miles)" (pg. 121). Before the 1999 Hurricane Floyd flooding, the Town was home to thirty-seven businesses, including auto mechanic and body shops, beauty parlors, barber shops, a lawyer's office, truck stops, a restaurant, and car dealers. Town officials were trying to secure a post office and bank. During the Hurricane Matthew storm event, a large majority of the 2,357 residents were displaced by floodwaters. Approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Princeville, for much of its history, has been so concerned about survival that historic preservation has been almost impossible. (*See*, Town's website, at https://www.townofprinceville.com/town-of-princeville-nc-history.html.) The proposed project will offer a welcomed component of economic stability to the area that is not present when the community is subjected to threats from future storm damage and flooding. The purpose and intent of the proposed project is to relocate the Town's residents, municipal facilities, and commercial enterprises that are affected hardest by flooding and storm surge out of the Tar River floodplain and floodway. The proposed project will serve to provide stability through a safer and more sustainable location for Town residents, growth for existing and future commercial enterprises, and delivery of reliable and uninterrupted Town municipal services. There will also be a temporary increase in jobs associated with the proposed project's construction activities. Thus, the proposed project is critical to a strong and successful economy in the Town of Princeville.
Demographic Character Changes, Displacement	1	The proposed project is not anticipated to cause any change in the demographic character of the area. The proposed project is designed to accommodate and support Town residents and commercial and municipal facilities. The proposed project will not deny any population within the local community potential for growth. The proposed project will not act as an isolation feature within the local area or community. Also, the proposed project does not present the potential to cause

		the displacement of individuals or families, destroy jobs, local businesses or public community facilities, or disproportionately affect particular populations. Rather, this proposed project will assist the Town of Princeville's residents and community to be protected from displacement due to devastating future storm events and flooding. Many of the Town of Princeville's residents have been displaced due to historic flooding and storm events with some housing remaining vacant since Hurricane Floyd. According to the Town's Final Comprehensive Plan, "[t]he Town is hopeful that residents displaced from flooding will return and that new housing that is planned will allow the Town to grow in the future." The proposed project will serve to provide stability through a safer and more sustainable location for Town residents, growth for existing and future commercial enterprises, and delivery of reliable and uninterrupted Town municipal services. *See*, Town of Princeville's Final Comprehensive Plan, at https://file.ac/jki-sdtGtUw/
Environmental Justice Impacts	1	According to the EJScreen American Community Survey (ACS) Summary Report for the census block of 1,520 people including the Subject Property, there is an approximately 95.99% minority population and 48.30% low-income population, both of which are higher than State and national averages. According to the EJScreen Community Report for a 2-mile radius from the Subject Property (Princeville, NC), there is an approximately 86% minority population and 54% low-income population, both of which are higher than State and national averages. According to the NC DEQ Community Mapping System, the Subject Property is located in the NC DEQ's Potentially Underserved Block Groups 2019. Princeville is the first municipality in America incorporated by former slaves (1885). At the end of the Civil War, freed slaves occupied low-lying land in the Tar River floodplain, purchased plots from local landowners, and eventually incorporated the town as the "Town of Princeville." Princeville was built on low-lying ground in a bend in the Tar River. Because of its low-lying location, Princeville has been repeatedly flooded many times since its founding. (*See,* USACE's Integrated Feasibility Report and Environmental Assessment.)

		In 1965-1967, USACE built a levee along the Tar River to address the frequent and severe flooding. Once this levee was constructed, the Town did not experience severe flooding again until Hurricane Floyd in 1999 (a greater than 0.2% event), when the Town suffered catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. Up to 20 feet of water stood in Princeville for nearly 10 days until river levels subsided enough that the floodwaters drained or could be pumped from the Town. As a result of the catastrophic flooding and historical significance of the Town, then-President Clinton issued Executive Order 13146, which established a "President's Council on the Future of Princeville, North Carolina." The Executive Order directed the President's Interagency Council to consider, among other things: "…the unique historic and cultural importance of Princeville in American history; the views and recommendations of the relevant State and local governments, the private sector, citizens, community groups and non-profit organizations, on actions that they could take to enhance the future of Princeville and its citizens; and, agency assessments and recommendations to repair and rebuild Princeville, and to the extent practicable, protect Princeville from future floods." The President's Council's report was submitted in August 2000, and recommended quickly bringing the citizens of Princeville home while rebuilding toward a more disaster-resistant community. The President's Council's report, EOs 13146 and 12898, Princeville Community Design Workshop, Town open houses and meetings, plans, studies, and community and agency input were used to determine the best and most feasible flood damage prevention solutions for the future of Princeville. The Town has selected the proposed project to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding. (*See,* Princeville Recovery Plan and USACE's Integrated Feasibility Report and Environmental Assessment.)

		There are no identified adverse impacts to the human health and environment associated with this proposed project. The proposed project will not subject the community to environmental conditions that may have disproportional effects on low-income or minority populations. Rather, this proposed project will assist the Town of Princeville's residents and community to be protected from future devastating storm damage and flooding. The proposed project will provide a safer and more sustainable location outside of 100-year floodplain for residents and commercial and municipal facilities in the Town of Princeville in accordance with EO 13146 recommendations. Thus, the proposed project does not contribute to or promote environmental injustice. The proposed project is in compliance with this section. *See,* **Attachment 17:** NC DEQ Community Mapping System Results, EJScreen Community Report, EJScreen ACS Summary Report, EJScreen Census 2010 Summary Report, Executive Order 13146 – President's Council on the Future of Princeville, North Carolina, and CDC Report for Edgecombe County.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The Edgecombe County public schools that serve the proposed project include Princeville Elementary School, W.A. Pattillo Middle School, and Tarboro High School, which are low-performing. School choice options include Martin Millennium Academy (K-8), Edgecombe Early College High School, and Edge Academy of Health Sciences. According to Superintendent Andrew Bryan, Edgecombe County Public Schools, the proposed project will not have an adverse impact on these schools. Since many of the proposed project's residents are expected to come from within the community, there are less impacts anticipated due to many students already being enrolled in the school/ district. There are numerous cultural facilities and museums in the area including the: Princeville Museum Welcome Center, Hobson Pittman Memorial Gallery, and Edgecombe County Veteran's Military Museum. The nearest public library branch is the Edgecombe County Memorial

		Library in Tarboro. It is anticipated that many future residents of the proposed project already live within the community. Thus, the proposed project is not anticipated to have an adverse impact on educational or cultural facilities. **Attachment 20:** Public Education Certification, NCORR and Edgecombe County Correspondence, and Google Earth Search Results.
Commercial Facilities	1	Portions of Princeville, including the Subject Property, have been designated as an U.S. Dept of Treasury Opportunity Zone, which is an economic development tool used to spur economic development and job creation in distressed communities by providing tax benefits to investors. There are approximately thirty-one businesses located in the small town of Princeville (*See*, https://www.chamberofcommerce.com/united-states/north-carolina/princeville/). Before the 1999 Hurricane Floyd flooding, the Town was home to thirty-seven businesses, including auto mechanic and body shops, beauty parlors, barber shops, a lawyer's office, truck stops, a restaurant, and car dealers. Town officials were trying to secure a post office and bank. Princeville's Town Hall, originally built as a schoolhouse in the 1920s, was badly damaged by the recent flood, and past floods destroyed many other older structures. (*See,* https://www.townofprinceville.com/town-of-princeville-nc-history.html.) During Hurricane Matthew, many of the Town's commercial and institutional structures were damaged. According to the Princeville Recovery Plan (pg. 33), "[d]ue to continuing threats of serious flooding in Princeville, the land is not suitable for commercial or industrial development at any significant scale. Realistically, the nearly total exodus of commerce from Princeville after Hurricane Floyd in 1999 cannot be reversed unless the flood risk is significantly reduced. Federal agencies have advised the town's residents to prepare for more flooding." Also, a key factor shaping the Recovery Plan includes "[i]f citizens are moved via a relocation scenario, the people of Princeville will be able to focus on future-oriented investments in their homes and community, not the recurring cost of flood damage, disruption, and misery. On dry land, philanthropic

		organizations will be able to boost Princeville's exhibition of history and culture–including a performance venue. Commercial development would be possible as well, which represents a major shift from the business exodus after Hurricane Floyd nearly twenty years ago" (pgs. 38-39). The Town of Princeville is supported by a limited number of existing businesses and professional service providers with additional commercial facilities located to the north in Tarboro. The proposed project will provide new offices and commercial buildings in a location with less likelihood of flooding. The proposed project will serve to provide stability through a safer and more sustainable location for Town residents, growth for existing and future commercial enterprises, and delivery of reliable and uninterrupted Town municipal services. These components are essential to a strong and successful commercial presence in the Town of Princeville. **Attachment 21:** Princeville U.S. Dept. of Treasury Opportunity Zone Map, Census Tract 209 Information Page, Chamber of Commerce Webpage, and Google Earth Business Search Results.
Health Care and Social Services	2	According to Ms. Michelle B. Etheridge, Health Director, Edgecombe County Health Department, the 53-acre site is unsuitable for septic systems and requires connection to public water and sewer. The proposed project is designed to incorporate water and sewer connections to existing infrastructure. The proposed project is located in an area with close proximity to local health care and social services providers. ECU Health Edgecombe Hospital and Vidant Medical Center are located approximately 3 miles from Princeville in neighboring Tarboro. Freedom Hill Community Health Center and other nearby medical groups also serve Princeville residents. According to Ms. Betty Battle, Director, Edgecombe County Department of Social Services, there are adequate and appropriate social services available for the proposed project. In addition, the proposed project will not have an adverse effect on these social services. The Edgecombe County Department of Social Services and local organizations provide social services to the community. It is anticipated that many residents of the proposed project will come from within the community and are potentially

		already served by these health care and social services. Therefore, there should only be a negligible increase in demand for services. **Attachment 22:** Health Services and Social Services Certifications, NCORR and Edgecombe County Correspondence, and Google Maps Health Care and Social Services Search Results.
Solid Waste Disposal / Recycling	2	According to Ms. Gloria A. Moseley, Director, Edgecombe County Solid Waste, there are several qualified (private) waste collection companies that will be able to accommodate this proposed project. According to the Town website, solid and yard waste disposal will be available to the proposed project site by Waste Industries. Municipal solid waste and solid waste are transported to East Carolina Environmental/ Republic Services in Bertie County. An appropriate quantity of dumpsters will be provided to meet the proposed project's demands. All construction wastes will be characterized by type and properly disposed of in the appropriate NC DEQ DWM approved receiving facility. Edgecombe County operates a transfer station and permitted construction and debris landfill for the area. The NC DEQ DWM Solid Waste Section (Section) commented that "[f]or any planned or proposed projects, it is recommended that during any land clearing, demolition, and construction, the Town of Princeville and/or its contractors would make every feasible effort to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. **Any waste generated by and of the project that cannot be beneficially reused or recycled as described, may require disposal at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of Princeville require all contractors to provide proof of proper disposal for all generated waste to permitted facilities.**" In addition, the NC DEQ notes that "[a]ny open burning associated with subject proposal must be in compliance with 15A NCAC 2D.1900." Further, demolition of structures containing asbestos material must be in compliance with 15A NCAC 20.1110(a)(1) which requires *notification* to the NC Department of Health and Human Services' HHCU and *removal* prior to demolition.

		Attachment 23: Solid Waste Removal Certification, NCORR and Edgecombe County Correspondence, Town of Princeville FAQs Webpage, and Edgecombe County Recycling Brochure. *See*, **Attachment 28:** State Environmental Clearinghouse Comments from NC DEQ.
Waste Water / Sanitary Sewers	2	The Subject Property is serviced by the Edgecombe County Water and Sewer. According to Mr. Paul S. Moseley, Edgecombe County Utilities Director, there is adequate public sewer infrastructure available with the addition of a new sewer lift station for the proposed project. Mr. Moseley noted that the closest sewer main connection is an 8-inch main at 8 feet deep located approximately 500 feet from the Subject Property. The proposed project includes the installation of a sewer lift station, backflow preventers, stormwater collection systems, and connections to existing infrastructure which includes approximately 5,152 linear feet (LF) of gravity sewer piping and 10,328 LF of sewer force main. According to the Town's FEMA BRIC Application (pg. 6), the new infrastructure will be maintained by Edgecombe County as the Town of Princeville is officially considered District 6 in the County's water and sewer system. According to the NC DEQ comment, a permit to construct and operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system might be required. Also, a NPDES permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters might be required. All applicable federal, State and local permits will be obtained for the proposed project prior to construction and activities will comply with their requirements and conditions. Therefore, the proposed project is not anticipated to have an adverse impact on waste water/ sanitary sewers and capacity onsite and in the surrounding area. **Attachment 24:** Public Sewer Certification, Public Water Certification, NCORR and Edgecombe County Correspondence, and Town of Princeville Utilities Webpage. *See,* **Attachment 28:** State Environmental Clearinghouse Comments from NC DEQ.

Water Supply	2	The Subject Property is serviced by the Edgecombe County Water and Sewer. According to Mr. Paul S. Moseley, Edgecombe County Utilities Director, there is adequate public water supply and infrastructure available for the proposed project. Mr. Moseley noted that the closest water main connection is a 12-inch main located approximately 25 feet from the Subject Property. The proposed project includes the installation of approximately 6,869 LF of water mains and connections to existing infrastructure for the new development. According to the Town's FEMA BRIC Application (pg. 6), the new infrastructure will be maintained by Edgecombe County as the Town of Princeville is officially considered District 6 in the County's water and sewer system. Water supply wells were not identified at the Subject Property. If any wells are discovered on the proposed project site, then well abandonment must be completed in accordance with Title 15A. Subchapter 2C.0100. According to the NC DEQ comment, plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/ Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C.0300, et. seq. In addition, all public water supply systems must comply with State and federal drinking water monitoring requirements. Further, NC DEQ notes that any relocation of existing water lines will require plans to be submitted to the Division of Water Resources/ Public Water Supply Section prior to construction. All applicable federal, State and local permits will be obtained for the proposed project prior to construction and activities will comply with their requirements and conditions. Therefore, the proposed project is not anticipated to have an adverse impact on water supply quality or capacity onsite and in the surrounding area. **Attachment 24:** Public Sewer Certification, Public Water Certification, NCORR and Edgecombe County Correspondence, and Town of Princeville Utilities Webpage. *See*, **Attachment 28:** State Environmental Clearinghouse Comments from NC DEQ.

Public Safety - Police, Fire and Emergency Medical	3	The Princeville Volunteer Fire Department (Station 17), Tarboro Police Department, Edgecombe County Sheriff's Office, Edgecombe County Emergency Service, and other public safety services are available in the area. During Hurricane Matthew, the Princeville Volunteer Fire Department was completely destroyed. The proposed project involves relocating the fire department station and other critical Town facilities (police station, public works facility, and Town Hall Annex) to a site outside of 100-year floodplain which, in turn, will better protect the residents, the community, and other facilities by improving public safety services' capability during and following future storm events. A Certification Form was sent to Edgecombe County Sheriff Atkinson, Jr. who noted that the proposed project will require additional officers and increase response time. Sheriff Atkinson, Jr. said that there are currently six deputies covering zones across the County with a commendable less than five minute response time. He suggested that Princeville create its own police department or, if they continue with the current contract, they will need to hire additional deputies for the proposed project. Princeville currently contracts an off-duty deputy for Thursday to Sunday coverage. Therefore, there is a minor adverse impact anticipated on law enforcement from the proposed project. Edgecombe County EMS is the sole provider of EMS pre-hospital care for the County. According to Mr. Antwan Brown, Edgecombe County Emergency Services Director, there are adequate and appropriate emergency medical services (EMS) available for the proposed project that will not be adversely affected by the proposed project. The estimated EMS average response time for the proposed project of 8 minutes falls within the average community response time of 12 minutes. Therefore, the proposed project is not anticipated to have an adverse impact on the EMS services in the surrounding area. A Certification Form was sent to Mr. Antwan Brown and the Princeville Volunteer Fire Department Chief, for information on fire protection services for the proposed project, but a response has not been received. If a response is received, then it will be appended to the ERR. **Attachment 25:** Law Enforcement and EMS Certifications, NCORR and Edgecombe County

		Correspondence, and Google Maps Search Results.
Parks, Open Space and Recreation	2	There are three Town public parks, Riverside Heritage Park, Powell Park, and Mutual Park, listed in the Town of Princeville's Title IX: General Regulations, Chapter 96 Parks and Recreation, Section 96.001. Freedom Site and the Tar River Baptismal Site are important landmarks located in Princeville. According to the Princeville Community Floodprint, "Princeville has great potential to support a wide range of outdoor recreational activities. Connecting existing environmental assets and opportunities (such as the Tar River, Levee Trail, and canals) to adjacent community points of interest (such as Princeville Elementary and Heritage Park) will enable the Town to provide residents and visitors with an interconnected network of passive and active recreational features that contribute to community health." According to TrailLink, the "Princeville Heritage Trail, unveiled in 2002, commemorates the historical significance of this oldest city in the United States to have been incorporated by African Americans. The trail runs atop the grassy levee that follows the southern bank of a Tar River, providing scenic views of the waterway." The proposed project will not adversely affect this community treasure. A Certification Form was sent to Mr. Eric Evans, Edgecombe County Manager, for information on parks and recreational facilities in the area, but a response has not been received. If a response is received, then it will be appended to the ERR. It is anticipated that many residents of the proposed project will come from within the community and there will be a negligible increased demand for resources. Additional community open space will also be provided onsite for the residents. Therefore, the proposed project is not anticipated to have adverse impacts to parks, open spaces or recreational areas. **Attachment 26:** NCORR and Edgecombe County Correspondence, Google Maps and Earth Parks Search Results, Planning Princeville's Heritage Trail, and Trail Map.
Transportation and Accessibility	3	There will be work in the public rights-of-way for ingress/egress access points and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and a two-lane collector road will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood. There will be construction on the affected

		roads that will temporarily impact traffic. The proposed project has been reviewed and discussed with NC DOT, and construction will be coordinated with NC DOT and comply with all required permits. NC DOT had no comments on the proposed project during the State Environmental Clearinghouse review of the Draft EA and Early Notice. At this time, public transportation is not available to the Town of Princeville. However, the Subject Property will accommodate commercial, civic and residential uses. Commercial uses include highway-orientated businesses, retail, restaurants and offices. A variety of residential housing options with higher densities will be closely located near these commercial areas to promote walkability. The Subject Property's frontage on U.S. Highway 64 West makes it particularly suitable for mixed-use development. Thus, temporary, minor adverse impacts on transportation are anticipated during construction. Overall, the proposed project is not anticipated to have a long-term adverse impact on transportation and accessibility.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	According to the NC NHP database query report, there are 35 Managed Areas and one Natural Area (Tarboro Floodplain) documented within a one-mile radius of the Subject Property. The Managed Areas include four Edgecombe County Open Spaces, a NC DOT Mitigation Site, a NC WRC Newbold Pond Public Fishing Area, a Town of Princeville Open Space, two Conservation Reserve Enhancement Program Easements, and 26 NC Hazard Mitigation Buyout Properties. Due to the distance from the Subject Property and type of project, there are no adverse impacts anticipated on these Natural and Managed Areas. According to the USACE, there is "one jurisdictional wetland identified in the southwestern corner of the site." The wetland is an approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A). There are no other wetlands, including HUD-defined wetlands, located on the Subject Property. The NC DEQ DWR reviewed two onsite ephemeral streams and determined them to not be at least intermittent or not present (**Attachment 15**). As designed, the proposed project's construction will not encroach into

		the wetland. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no stream, open water, or wetland impacts are proposed, Clean Water Act Section 404 and 401 permits, a Tar-Pamlico riparian buffer authorization, and mitigation are not required. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Additionally, the proposed project can implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall, and remove/control invasive plant species present. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the ERR when received from the permitting agencies. Therefore, the proposed project is not anticipated to have impacts on unique natural features or water resources. *See,* **Attachment 8:** USFWS and NCORR Correspondence and USFWS Raleigh FO 10-step Project Review Package, **Attachment 15:** EO 11990 Wetlands Protection Determination, and **Attachment 28:** State Environmental Clearinghouse Comments from NC DEQ.
Vegetation, Wildlife	2	The proposed project was determined to have "**No Effect**" on proposed/ listed species and/ or proposed/ designated critical habitat except for "**May Affect, Not Likely to Adversely Affect**" the Northern Long-eared Bat, proposed Tricolored Bat, and Monarch Butterfly, and "**No Eagle Act Permit Required**" for Bald Eagles. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services FO on November 2, 2023. The Subject Property appears in historical aerial photos to be recently cleared (2016) and the Phase I ESA noted the 53-acre site was undeveloped and appears to be recently

		cleared (2017 – 2021). Thus, the site is no longer densely-forested woodland. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Additionally, the proposed project can implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall, and remove/control invasive plant species present. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the ERR when received from the permitting agencies. Therefore, the proposed project is not anticipated to have adverse impacts to vegetation or wildlife. *See,* **Attachment 8:** USFWS and NCORR Correspondence and USFWS Raleigh FO 10-step Project Review Package.
Other Factors		None identified.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts	1	According to NOAA, climate change is likely increasing the intensity of tropical cyclones. The Town of Princeville sits adjacent to the Tar River and, due to the elevation, has flooded seven times between 1800 and 1958. Princeville is situated almost entirely within the Tar River floodplain. After a major flood in 1958, Town officials approached the USACE with a proposal to build a dam. In 1967, the Corps of Engineers built a three-mile long, $4 million earthen levee along the south bank of the Tar River to address the frequent and severe flooding. The levee could accommodate thirty-seven feet of water; since flood waters had never exceeded thirty-three feet, residents felt safe at last. In 1999, Hurricane Floyd's heavy rains allowed floodwaters to initially enter the Town through a number of ungated culverts located under a section of U.S.

		Highway 64. This record flood then overtopped the levee in one location, ultimately circumvented the levee at its north end, and inundated the Town with floodwaters. The Town was submerged and suffered catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. In some areas of Princeville, water rose 23 feet above the streets, and it took ten days for the waters to completely recede after river levels subsided enough that the floodwaters drained or could be pumped from the Town. (*See,* Town of Princeville website, at https://www.townofprinceville.com/town-of-princeville-nc-history.html.) During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the functional failure of the Princeville floodgates located along the USACE levee bordering the Tar River. According to the Coastal Resilience Center, about 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged as well. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. (*See,* **Attachment 1**: Hurricane Matthew and Floyd Extent Map from June 2017 Meeting). According to the Princeville Recovery Plan (pgs. 27-28), an important consideration in finding a flood damage prevention sustainable solution is the "long-term recurring cost of disaster management due to floods at the historic rate or an increased rate of frequency and/or intensity due to climate change." Federal agencies have advised the town's residents to prepare for more flooding" (Princeville Recovery Plan, pg. 33). In August 2017, a five-day Princeville Community Design Workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. There has been widespread community and Town leadership support for the proposed project. The Town has selected the proposed project to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding. (*See*, Princeville Recovery Plan, November

		2018, at https://coastalresiliencecenter.unc.edu/wp-content/uploads/sites/845/2018/12/Princeville-Recovery-Plan.pdf.) According to the EJSCREEN website's Climate Change Data, Princeville has a 0.46 average change in drought (5-year SPEI), no projected coastal flood hazards and no projected sea level rise. There is projected 100-year floodplain for large portions of Princeville but it is significantly less at the Subject Property. Princeville contains 0% properties at wildfire risk in 2022, and 79% properties at wildfire risk in 2052. The historic town center of Princeville contains 90-95% properties at flood risk in 2022, while the Subject Property's census block contains 61% properties at flood risk in 2022, and 60% properties at flood risk in 2052. The data from the EJSCREEN shows concerns for projected 100-year floodplain and flood risk with climate change throughout the Town. According to the Climate Mapping for Resilience and Adaptation Tool (CMRAT) data for the Edgecombe County, there is a relatively high risk (National Risk Index Ratings) of Extreme Heat and Drought, very low risk for Wildfire, and relatively high risk for Flooding, and very low risk for Coastal Inundation (**Attachment 27**). This data shows concerns for extreme heat, drought and flooding in the area with climate change in the County. The Subject Property is a favorable location to weather the effects of climate change when comparing its 100-year floodplain and flood risk projections to areas located closer to the Tar River. Therefore, the proposed project is critical to provide a safer and more sustainable location long-term for Town residents, growth for existing and future commercial enterprises, and delivery of reliable and uninterrupted Town municipal services. **Attachment 27**: EJSCREEN website's Climate Change Data for Princeville and CMRAT Data for Edgecombe County. *See*, https://www.climate.gov/news-features/understanding-climate/climate-change-probably-increasing-intensity-tropical-cyclones and CMRAT, at https://resilience.climate.gov/
Energy Efficiency	2	The proposed project will cause an increase in energy use as compared to its current use. However, the proposed project will be connected to an existing grid and will not

		require additional infrastructure. The existing power infrastructure can support the proposed project and is provided by EMC or Dominion Energy. The proposed project will be new construction and, where feasible, can incorporate energy efficient LED lighting, water sense low-flow fixtures, Energy Star Certified appliances, Energy Star windows, thermal building envelopes, and energy efficient HVAC mechanical systems. For HUD housing, using the Green Building Standards means that the Town will consider meeting one of the following industry recognized standards for all construction covered by Section V.B.1.a. through implementation of one or more of the following programs: (i) ENERGY STAR (Certified Homes and Multifamily High-Rise), (ii) Enterprise Green Communities, (iii) LEED (New Construction, Homes, Midrise, Existing Buildings Operations and Maintenance, or Neighborhood Development), (iv) ICC–700 National Green Building Standard, (v) EPA Indoor AirPlus (ENERGY STAR a prerequisite) or (vi) any other equivalent comprehensive green building program acceptable to HUD. Depending on funding sources and building type, the required green building standards that apply might differ. Therefore, the proposed project will have minimal impact on energy consumption compared to similar developments not requiring green building standards. Also, the proposed project aims to relocate existing residents as well as commercial and municipal facilities to an area of the Town that is not subject to severe flooding. Thus, the proposed project is not anticipated to have a significant adverse effect on energy consumption.

Additional Studies Performed:

- Cultural Resources Records Review, Edgecombe County, NC, June 19, 2023
- Phase I Environmental Site Assessment (Revised), Town of Princeville Properties – 53 Acres, Between US-64 and South Shiloh Farm Road, Princeville, Edgecombe County, NC, May 24, 2023
- Preliminary Geotechnical Report, Princeville 53-Acre Development, S&ME, Inc., July 17, 2019
- Phase I Environmental Site Assessment, Edgecombe County, Princeville 53 Acres, Princeville, North Carolina, S&ME, Inc., June 6, 2019 (Discussed in 2023 Phase I ESA)

Related Previous Reports:

- Princeville, North Carolina Hurricane Matthew Recovery Plan (Princeville Recovery Plan), November 2018 (Prepared by: Hurricane Matthew Disaster Recovery and Resilience Initiative, Coastal Resilience Center, and The University of North Carolina at Chapel Hill)
- Town of Princeville's Final Comprehensive Plan (Town's Plan), September 20, 2021
- Edgecombe County Hurricane Matthew Resilient Redevelopment Plan, May 2017
- Princeville Community Floodprint, NC State University Coastal Dynamics Design Lab, September 2020
- NCEM/NC DOT Tar River Basin Flood Analysis and Mitigation Strategies Study, May 1, 2018
- Town of Princeville, NC, Hurricane Matthew Flood Assessment Study, January 4, 2017
- USACE's Flood Risk Management, Integrated Feasibility Report and Environmental Assessment, Final Report, December 2015 (Rev April 2016)
- USACE's Integrated Feasibility Report and Environmental Assessment dated March 2014, Final Report, December 2015
- Town of Princeville, NC, Hazard Mitigation Plan, September 27, 2004
- Executive Order 13146 - President's Council on the Future of Princeville, North Carolina, February 29, 2000

Field Inspection (Date and completed by)**:**

- Mr. Allen McColl, Project Scientist, Terracon, May 2, 2023

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]**:**

- Fact Sheet #D1: Siting HUD-Assisted Projects in Accident Potential Zones
- US EPA NEPAssist Tool, at https://nepassisttool.epa.gov/nepassist/nepamap.aspx
- Airport Data and Information Portal (ADIP), at https://adip.faa.gov/agis/public/#/public
- Federal Aviation Administration (FAA) Circle Search for Airports, at https://oeaaa.faa.gov/oeaaa/external/searchAction.jsp?action=showCircleSearchAirportsForm
- USFWS CBRS Mapper, at https://www.fws.gov/CBRA/Maps/Mapper.html
- FEMA Map Service Center, at https://msc.fema.gov/portal/home and https://hazards.fema.gov/femaportal/prelimdownload/searchResult.action
- NFIP Community Status Book - https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book
- Environmental Protection Agency (EPA) Greenbook - https://www.epa.gov/green-book
- North Carolina Division of Coastal Management - https://www.deq.nc.gov/about/divisions/division-coastal-management

- North Carolina Department of Environmental Quality Site Locator - https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=7dd59be2750b40bebebfa49fc383f688
- NEPAssist - https://www.epa.gov/nepa/nepassist
- USFWS Information for Planning and Consultation (IPaC) - https://ipac.ecosphere.fws.gov/
- USFWS Critical Habitat Mapper - https://ecos.fws.gov/ecp/report/table/critical-habitat.html
- USFWS Raleigh Field Office
- NC NHP
- US Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) Web Soil Survey - https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
- Natural Register of Historic Places Mapper - https://ecos.fws.gov/ecp/report/table/critical-habitat.html https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466
- North Carolina Department of Natural and Cultural Resources – State Historic Preservation Office - https://www.ncdcr.gov/old-state-historic-preservation-office
- NC NHP Data Explorer Tool - https://ncnhde.natureserve.org/
- NC HPOWEB - https://nc.maps.arcgis.com/home/item.html?id=79ea671ebdcc45639f0860257d5f5ed7
- HUD Tribal Directory Assessment Tool - https://egis.hud.gov/tdat/
- Catawba Indian Nation
- Tuscarora Nation
- North Carolina Department of Transportation (NC DOT) Traffic Counts - https://connect.ncdot.gov/resources/State-Mapping/pages/traffic-volume-maps.aspx
- Federal Railroad Administration (FRA) Safety Map - https://fragis.fra.dot.gov/gisfrasafety/
- HUD Day/Night Noise Level Calculator - https://www.hudexchange.info/programs/environmental-review/dnl-calculator
- EPA Sole Source Aquifer Map - https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b
- USFWS National Wetland Inventory (NWI) - https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper
- National Park Service Nationwide Rivers Inventory - https://www.nps.gov/maps/full.html?mapId=8adbe798-0d7e-40fb-bd48-225513d64977
- National Wild and Scenic Rivers System - https://www.rivers.gov/
- EPA EJScreen - https://www.epa.gov/ejscreen
- EJScreen Community Report
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- EJScreen Census 2010 Community Report
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- NCEM/NC DOT Tar River Basin Flood Analysis and Mitigation Strategies Study dated May 1, 2018, at https://files.nc.gov/rebuildnc/documents/files/tar_mitigation_report.pdf
- Edgecombe County, at https://www.edgecombecountync.gov/departments/planning_inspections_and_e-911/planning_services.php
- Edgecombe County Parcel Maps, at https://taxpa.edgecombecountync.gov/paas/
- Edgecombe County Comprehensive Plan 2014-2034, at https://cms5.revize.com/revize/edgecombenc/Departments/Planning,%20Inspections%20&%20E-911/Edgecombe%20County%20Comprehensive%20Plan%20June%202014.pdf
- Town of Princeville, at https://www.townofprinceville.com/
- Chamber of Commerce.com, at https://www.chamberofcommerce.com/united-states/north-carolina/princeville/
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- Town of Princeville's Final Comprehensive Plan, at https://file.ac/jki-sdtGtUw/
- Town of Princeville Comprehensive Plan website, at https://princevilletownplan.com/
- Town of Princeville Ordinances, at https://www.townofprinceville.com/documents/princeville-nc-ordinance.html?start=0
- Town of Princeville website, FAQs For the Town of Princeville's Proposed ETJ Expansion, at https://townofprinceville.com/frequently-asked-questions.html
- Princeville, North Carolina Hurricane Matthew Recovery Plan (Princeville Recovery Plan), November 2018 (Prepared by: Hurricane Matthew Disaster Recovery and Resilience Initiative, Coastal Resilience Center, and The University of North Carolina at Chapel Hill), at https://coastalresiliencecenter.unc.edu/wp-content/uploads/sites/845/2018/12/Princeville-Recovery-Plan.pdf
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- N.E.W. Regional Hazard Mitigation Plan, 2015-2020, at https://nashcountync.gov/DocumentCenter/View/1680/NEW-Regional-Hazard-Mitigation-Plan-2015-2020?bidId=
- Edgecombe County Hurricane Matthew Resilient Redevelopment Plan, May 2017, at https://files.nc.gov/rebuildnc/documents/matthew/rebuildnc_edgecombe_plan_combined.pdf
- U.S. Treasury Opportunity Zones, at https://www.irs.gov/newsroom/opportunity-zones
- OpportunityDb – Census Tract 209, Princeville, North Carolina at, https://opportunitydb.com/zones/37065020900/.
- North Carolina State Parks, at https://www.ncparks.gov/find-a-park
- Princeville Community Floodprint, NC State University Coastal Dynamics Design Lab, September 2020, at https://www.coastaldynamicsdesignlab.com/princeville-floodprint
- TrailLink, Princeville Heritage Trail, at https://www.traillink.com/trail/princeville-heritage-trail/
- NCORR Community Recovery/ Infrastructure (CRI) Program, Project Information Form, December 28, 2021
- Town of Princeville's FEMA BRIC Application for the proposed project, September 3, 2021, at https://files.nc.gov/ncdps/documents/files/BRIC2020-Princeville-35.pdf
- Climate Change is Probably Increasing the Intensity of Tropical Cyclones, NOAA, March 9, 2021, at https://www.climate.gov/news-features/understanding-climate/climate-change-probably-increasing-intensity-tropical-cyclones
- Climate Mapping for Resilience and Adaptation Tool, at https://resilience.climate.gov/
- State Environmental Clearinghouse

Media Coverage:

- New York Times video report (3 min), at https://nyti.ms/2pgUyNF
- Princeville open house (1 min), https://youtu.be/KJvy7jm3MTU
- Princeville open house, TV news story 7/21/17 (2 min), at http://wnct.com/2017/07/21/princeville-town-leaders-seek-input-on-long-term-hurricane-relief/
- Princeville Design Workshop, kickoff 8/25/17 (2 min), at http://wncn.com/2017/08/25/princeville-partners-with-design-teams-to-limit-flooding-in-the-future/
- Princeville Design Workshop archives, reports, materials, summary, at http://bit.ly/2AMO4Zi
- Princeville video: Community Design Workshop, source Rural Center and Longleaf Productions (2 min), at https://www.youtube.com/watch?v=mYA2EkigScE
- NC State University video about Princeville workshop, August 25-29, 2017 (2-min), at https://youtu.be/PCiE77jCxEU
- NCSU synopsis, including the 2-minute video about the Princeville Workshop, at https://news.ncsu.edu/201 7/09/saving-princeville/
- TV news story: Workshop Wrap-up, at http://wnct.com/2017/0 8/29/princeville-wraps-up-final-revitalization-workshop/
- Guidebook for Princeville Design Workshop, at http://coastalresiliencecenter.unc.edu/wp-content/uploads/2017/11/Design-Workshop-Guidebook.pdf
- Skanska website and Princeville video, at https://partners.skanska.com/Shared%20Documents/Princeville_Skanska/index.html#video

Attachments:

- **Attachment 1:** Proposed Project Location Maps and Site Plans;
- **Attachment 1A:** Site Visit Photographs;
- **Attachment 2:** NEPAssist Airport Map with 15,000-foot Buffer;
- **Attachment 3:** USFWS CBRS Map;
- **Attachment 4:** FEMA FIRMette with Parcel Boundary and NFIP Community Status Book Report;
- **Attachment 5:** NC Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants and NEPAssist Map Showing Nonattainment Areas;
- **Attachment 6:** NC DCM Counties List and Maps;
- **Attachment 7:** Phase I ESA Report (May 24, 2023), 1029 Lynch Drive Historical Aerial Photographs and Deed, NEPAssist EPA Facilities with 1-mile Buffer, Facility Reports, NC DEQ DWM Site Locator Screening Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, and NC EPA Radon Level Map;
- **Attachment 8:** USFWS and NCORR Correspondence and USFWS Raleigh FO 10-step Project Review Package;

- **Attachment 9:** Signed HUD Thermal and Explosive Hazards Worksheet, AST Aerial Map with 1-mile Radius and Showing Distance to EMC, NCORR Telephone Conversation Record, and HUD ASD Assessment Tool Results;
- **Attachment 10:** Completed USDA AD 1006 Farmland Conversion Impact Rating Form, USDA NRCS and NCORR Correspondence, and NCORR USDA NRCS Review Package;
- **Attachment 11:** FEMA FIRMette with Parcel Boundary;
- **Attachment 12:** SHPO Response; NCORR SHPO Submission Package; HUD TDAT Results; Catawba Indian Nation THPO Response; Catawba Indian Nation Chief and THPO Section 106 Review Packages; and Tuscarora Nation Chief and THPO Section 106 Review Packages;
- **Attachment 13:** HUD Noise Assessment;
- **Attachment 14:** U.S. EPA Sole Source Aquifers Map;
- **Attachment 15:** EO 11990 Wetlands Protection Determination;
- **Attachment 16:** NEPAssist NRI and WSR Map with 1-mile Buffer, NRI Map, and WSR Map;
- **Attachment 17:** NC DEQ Community Mapping System Results, EJScreen Community Report, EJScreen ACS Summary Report, EJScreen Census 2010 Summary Report, Executive Order 13146 – President's Council on the Future of Princeville, North Carolina, and CDC Report for Edgecombe County;
- **Attachment 18:** Princeville Zoning Map, Edgecombe County Parcel Maps Showing ETJ and Zoning Districts, Recovery Efforts and Study Area Map from Town's Plan, Proposed Zoning and ETJ Zoning Maps, and Proposed Changes to Zoning Ordinance;
- **Attachment 19:** Preliminary Geotechnical Report and USDA NRCS Soil Survey Soil Suitability Classifications;
- **Attachment 20:** Public Education Certification, NCORR and Edgecombe County Correspondence, and Google Earth Search Results;
- **Attachment 21:** Princeville U.S. Dept. of Treasury Opportunity Zone Map, Census Tract 209 Information Page, Chamber of Commerce Webpage, and Google Earth Business Search Results;
- **Attachment 22:** Health Services and Social Services Certifications, NCORR and Edgecombe County Correspondence, and Google Maps Health Care and Social Services Search Results;
- **Attachment 23:** Solid Waste Removal Certification, NCORR and Edgecombe County Correspondence, Town of Princeville FAQs Webpage, and Edgecombe County Recycling Brochure;
- **Attachment 24:** Public Sewer Certification, Public Water Certification, NCORR and Edgecombe County Correspondence, and Town of Princeville Utilities Webpage;
- **Attachment 25:** Law Enforcement and EMS Certifications, NCORR and Edgecombe County Correspondence, and Google Maps Search Results;
- **Attachment 26:** NCORR and Edgecombe County Correspondence, Google Maps and Earth Parks Search Results, Planning Princeville's Heritage Trail, and Trail Map;
- **Attachment 27:** EJSCREEN website's Climate Change Data for Princeville and CMRAT Data for Edgecombe County; and
- **Attachment 28:** State Environmental Clearinghouse Comments.

List of Permits to be Obtained(later identified permits will be added to the ERR)**:**
All applicable federal, state and local permits will be identified and obtained prior to starting construction.

- NC DEMLR Erosion and Sediment Control Permit (letter of consent submitted to Edgecombe County)
- NPDES Construction Stormwater Permit (NCG010000)
- NC DEQ Sewer Extension Permit
- NC DEQ DWR Public Water Supply Section - Water Extension Permit
- NCDOT Driveway Permit
- NCDOT Encroachment Permit

Public Outreach [24 CFR 50.23 & 58.43]**:**

- The proposed project's Draft EA was submitted to the NC State Environmental Clearinghouse for agency review from November 3, 2023 to December 4, 2023. The Early Notice and FONSI/NOI-RROF/Final Notice and Public Explanation of a Proposed Activity in a Wetland were also submitted to the NC State Environmental Clearinghouse for agency review and comment.
- Town Open Houses, July 21, July 29, and August 16, 2017
- Community Design Workshop, August 25-29, 2017
- Town of Princeville Planning Board, September 17, 2020 (approved Final Princeville Community Floodprint)
- Town of Princeville Board of Commissioners, September 21, 2020 (formally adopted Final Princeville Community Floodprint)
- Princeville Comprehensive Plan and Ordinance Update, Steering Committee 1 Presentation, November 4, 2020
- Princeville Comprehensive Plan and Ordinance Update, Board of Commissioners Presentation, December 20, 2020
- Princeville Comprehensive Plan and Ordinance Update, Public Meeting 1, February 11, 2021
- Princeville Comprehensive Plan and Ordinance Update, Public Meeting 2 Boards, July 10, 2021
- Town of Princeville Budget Hearing 2021-2022, June 21, 2021
- The proposed project is also regularly discussed at Town meetings, including the Town Board Meeting which occurs monthly on the third Monday of each month at 7:00pm.

Cumulative Impact Analysis [24 CFR 58.32]**:**

The proposed project and its potential environmental impacts were evaluated in accordance with 24 CFR 58 requirements to determine whether it meets federal, State, and local environmental standards. This evaluation included a review of cumulative impacts on the environment resulting from the proposed project's incremental impacts combined with other past, present, and reasonably foreseeable future actions undertaken by any party. The Princeville Comprehensive Plan dated September 20, 2021, lists the proposed project as one of many ongoing disaster recovery projects that the Town of Princeville has either completed, underway, or planned for the future. This proposed project is one of many evaluated and chosen strategies that will work in concert to provide flood disaster prevention solutions to the Town. The proposed project does not negatively impact the surrounding environment or Subject Property and will not have an adverse environmental or health effect on end users. The Subject Property was found to be a very suitable site for the development with no onsite or nearby recognized environmental conditions that would adversely affect the proposed project use or its occupants. Rather, the proposed project aims to relocate the Town's residents, municipal facilities, and commercial enterprises that are affected hardest by flooding and storm surge out of the Tar River floodplain and floodway. There has been widespread community and Town leadership support for the proposed project. The Town has selected the proposed project to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding. The benefits of this proposed project to the residents, businesses, municipal services and community of the Town of Princeville cannot be understated.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]**:**

Numerous alternative and concerted projects have been considered to address Princeville's historic flooding over the years. (*See*, Town's Final Comprehensive Plan.) As a result of Hurricane Floyd in 1999, Princeville experienced catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. Up to twenty feet of water stood in Princeville for nearly 10 days until river levels subsided enough that the floodwaters drained or could be pumped from the Town. In the aftermath of Hurricane Floyd, President Clinton issued Executive Order 13146, which established a President's Council on the Future of Princeville, North Carolina to consider "…the unique historic and cultural importance of Princeville in American history; the views and recommendations of the relevant State and local governments, the private sector, citizens, community groups and non-profit organizations, on actions that they could take to enhance the future of Princeville and its citizens; and, agency assessments and recommendations to repair and rebuild Princeville, and to the extent practicable, protect Princeville from future floods." The President's Council's report was submitted in August 2000, and recommended quickly bringing the citizens of Princeville home while rebuilding toward a more disaster-resistant community.

A five-day Princeville Community Design Workshop was held on August 25-29, 2017 as an intensive design-based event in addition to Town open houses on July 21, July 29, and August 16, 2017. The Princeville Community Design Workshop and associated field visits brought together design experts from across the country to identify options for a 53-acre parcel of vacant

land outside the 100-year floodplain. The open houses were held for Princeville residents in order to provide them with the time and space needed to talk in depth with UNC Coastal Resilience Center's Hurricane Matthew Disaster Recovery and Resilience Initiative (HMDRRI) Team members about greenspace, affordable housing, infrastructure, mitigation, health issues, and other recovery topics important to them. The meetings also served to create the Town's vision for the recovery plan and to identify associated goals. This resulted in the Princeville Community Floodprint and the Princeville Recovery Plan. The Town staff worked with the Municipal Planning Team at Stewart, Inc. to craft a new Town comprehensive plan that built on these efforts and engaged a broad spectrum of the community to develop implementable strategies towards the community's goals. The Princeville Recovery Plan and the Coastal Resilience Center website discuss the workshop, open houses, alternatives, and community input received.

According to the Princeville Recovery Plan (pgs. 24-26), there are three alternatives including 1) *Individual Actions* (residential buyout and elevation), 2) *Internal Shift* (proposed project), and 3) *Community-wide Relocation* ("new town" location out of floodplain may include expansion of 53-acre site) that can be compared to the seven alternatives developed by FEMA. During the Town open houses, these seven alternatives (elevation only, rebuild with elevation, buyout with demolition, multiple strategies, strategic retreat, no action, relocation [proposed project] and other) were offered for consideration (Princeville Recovery Plan, pgs. 58-61). The Town's Final Comprehensive Plan lists thirteen ongoing recovery projects since 2017, including 1) stormwater repair project; 2) floodgate project; 3) USACE levee expansion, extension, and associated improvements; 4) Town Hall rehabilitation and wet floodproofing; 5) senior center reconstruction; 6) museum upgrades and interactive space; 7) Heritage Park rehabilitation and walking trail; 8) farmers' market construction; 9) *53-acre development*; 10) 88-acre land use planning; 11) residential structures' elevation; 12) Floodprint project's resilient redevelopment blueprint; and 13) water and wastewater system upgrades.

The evaluation of identified alternatives included their ability to address displaced residents, interrupted municipal services, business development, cost-effectiveness, ease of implementation, financial and economic costs, and overall flood hazard protection. Numerous plans and studies have also evaluated various strategies to understand and address the flood damage prevention and recovery effort in Princeville. These include the 2004 Hazard Mitigation Plan, 2014 USACE Integrated Feasibility Report and Environmental Assessment, 2018 NCEM/ NC DOT Tar River Basin Flood Analysis and Mitigation Strategies Study, 2020 NCSU Community Floodprint, 2018 Princeville Recovery Plan, and many others (*see*, Princeville's Final Comprehensive Plan, pgs. 19-20). The NCEM/NC DOT study evaluated twelve strategies for flood mitigation (new detention structures, retrofit of existing detention structures, offline storage, channel modification, new embankment structures, existing levee repair or enhancement, roadway elevation or clear spanning of floodplain, large scale flood-proofing, elevation/ acquisition/ relocation, land use strategies, river corridor greenspace, and wildlife management). This study found that *elevation/ acquisition/ relocation* was the most effective strategy evaluated because it has the shortest timeframe of an estimated 3 to 5 years, the scalability of funding allocation, ability to target the most vulnerable structures and communities, best benefit/cost ratio of the options considered, and most positive environmental impact. However, according to the Town's FEMA BRIC Application (pg. 6), "[e]levation in place is a

relatively costly alternative that results in less than desirable aesthetics, unwieldy implementation, and does not mitigate infrastructure and community disruptions against flood events, i.e., impacts to transportation, power, water, and sewerage disposal." Additionally, elevation doesn't address the fact that even elevated structures can be surrounded by floodwater and inaccessible by emergency services or residents during and after storm events. According to the NCEM/NC DOT analysis, *relocation* was determined the most cost effective mitigation strategy in dealing with repetitive flood losses in the Tar River Basin (Town's FEMA BRIC Application, pg. 6).

The main advantage of the proposed project is the retention of most of the population within the Town. Many of the Town of Princeville's residents have been displaced due to historic flooding and storm events with some housing remaining vacant since Hurricane Floyd. Before Hurricane Matthew, the Town of Princeville had a "low rental vacancy rate, indicating a need for additional rental housing stock. The storm exacerbated this problem and two years after Hurricane Matthew, public housing units are still closed, forcing residents to find housing elsewhere. Princeville's average housing unit value is approximately half that of the state's, and below that of Edgecombe County. Over half of the units were built between 1990 and 2009, with no new units thereafter, indicating a slowdown in new development" according to the Princeville Recovery Plan (pg. 72). According to the Town's Final Comprehensive Plan (pg. 10), the "Town is hopeful that residents displaced from flooding will return and that new housing that is planned will allow the Town to grow in the future." The Subject Property provides an ideal location for replacement public housing which is a part of the vision for this multi-phased proposed project.

According to the Princeville Recovery Plan (pgs. 38-39), a key factor shaping the Recovery Plan includes "[i]f citizens are moved via a relocation scenario, the people of Princeville will be able to focus on future-oriented investments in their homes and community, not the recurring cost of flood damage, disruption, and misery. On dry land, philanthropic organizations will be able to boost Princeville's exhibition of history and culture–including a performance venue. Commercial development would be possible as well, which represents a major shift from the business exodus after Hurricane Floyd nearly twenty years ago." According to the Princeville Recovery Plan (pg. 39), "[p]urposeful relocation is considered a best practice in floodplain management. A standout case is Valmeyer, Illinois, which was relocated to higher ground in the 1990s after major floods on the Mississippi River. That town is about the same size as Princeville and the relocation distance is approximately 2 miles." The project incorporated a wide variety of funding sources, including FEMA and HUD.

There are numerous financial and economic costs to be considered in evaluating the alternatives identified including the proposed project. According to the Princeville Recovery Plan (pgs. 27-28), an additional consideration is the "long-term recurring cost of disaster management due to floods at the historic rate or an increased rate of frequency and/or intensity due to climate change." Also, the "low likelihood of business investment within or adjacent to a high-risk floodplain, contrasted with a low-risk site where private sector investments could be encouraged" (pg. 30). The reality is that "[d]ue to continuing threats of serious flooding in Princeville, the land is not suitable for commercial or industrial development at any significant scale. Realistically, the nearly total exodus of commerce from Princeville after Hurricane Floyd in 1999 cannot be reversed unless the flood risk is significantly reduced. Federal agencies have

advised the town's residents to prepare for more flooding" (Princeville Recovery Plan, pg. 33). Furthermore, "FEMA is required by Congress to also consider what would happen to Princeville and its citizens if FEMA monies were not used for mitigation projects in Princeville" according to the Princeville Recovery Plan (pg. 60). The President's Council's report, EOs 13146 and 12898, Princeville Community Design Workshop, Town open houses and meetings, plans, studies, and community and agency input were used to determine the best and most feasible flood damage prevention solutions for the future of Princeville. According to the Princeville Recovery Plan (pg. 19), "[a]n improved physical arrangement should improve community functions, improve energy conservation, heighten governmental efficiency, and enhance environmental quality—all of which will boost the quality of life for all residents, allow business and industry to thrive, and assure a sustainable future." Thus, the Town of Princeville has selected the proposed project to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding.

The Subject Property was chosen as the most suitable for the proposed project due to its location outside of 100-year floodplain, close proximity to the historic town center, existing nearby infrastructure and utility connections, community support, suitability for mixed-use development with U.S. Highway 64 frontage, and the fact that the Town currently owns the 53-acre site. A different project location is not feasible since it would most likely require additional funding for the acquisition of a new site. In 2017, the 53-acre site was acquired by the State (NCEM) and deeded to the Town, providing the most logical and cost-effective site for relocation of residents and commercial and municipal facilities within Town limits. The proposed 53-acre site for development is located less than two miles from the historic town center where currently displaced Town residents reside. The Subject Property is located outside of floodplain and was designed not to encroach into the wetland onsite.

No Action Alternative [24 CFR 58.40(e)]:

With the "No Action" Alternative, the Town would have to endure the continued threat to the public health and safety and property damage to residences and commercial and municipal facilities from future storm events and repetitive flooding. Additionally, municipal services would continue to be interrupted and unreliable during these events. Past hurricanes have historically resulted in flooding most of the Town and the displacement of the majority of the Town's residents. The "No Action" Alternative would not provide long-awaited relief to the Town of Princeville but instead would leave the Town vulnerable to future storm events and flooding. Subjecting the Town, its residents, and business owners to the physical, emotional, and financial damages from this vulnerability would create an undue burden on the future of the Town of Princeville. Alternatively, relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding would reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating the Town's plan and vision for a safer and more sustainable and successful "Greater Princeville."

Summary of Findings and Conclusions:

The preceding Statutory Checklist and Environmental Assessment Checklist, and the discussion below, document that the proposed project work will comply with regulations in 24 CFR part 58 and that there are no direct or cumulative adverse environmental impacts anticipated as a result of the proposed action.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]**:**

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Any change to the approved scope of work will require re-evaluation by the Certifying Officer for compliance with NEPA and other laws and Executive Orders.

This review does not address all federal, state, and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state, and local environmental permits and clearances may jeopardize federal funding. Guidelines, recommendations, and requirements identified during agency and the State Environmental Clearinghouse inter-agency review shall be considered and required, where applicable.

Law, Authority, or Factor	Mitigation Measure
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Construction-related activities (land clearing, grading) can cause short-term exposures to sensitive receptors from particulate matter (PM 10) such as fugitive dust and emissions from construction equipment. Mitigation measures for dust control will be implemented to reduce potential impacts to air quality during construction. The proposed project will conform to NC Air Quality Management regulations during and following construction. The contractor will use BMPs to reduce fugitive dust generation and diesel emissions. BMPs can include wetting the grading site during dry conditions; maintaining vegetative cover as much as possible around cleared areas; a water truck to stabilize potential dust during high traffic times or high wind days on heavily-travelled access roads and storage areas; and

	operating construction vehicles and machinery at reduced speeds to reduce soil disturbance and fugitive dust potential. BMPs to mitigate the generation of emissions during construction include limiting use of vehicles and other machinery to construction hours only and removal once construction is completed.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	No structures were observed but if suspect ACM is found during redevelopment, it should be assumed to contain asbestos until laboratory analysis can confirm or deny their asbestos content. Demolition of structures containing ACM must be in compliance with 15A NCAC 20.1110(a)(1) which requires notification to the NC Department of Health and Human Services' HHCU and removal prior to demolition (**Attachment 28**). In the event that unexpected contaminated or potentially hazardous materials, soils or debris are encountered during redevelopment, work in the area shall cease immediately, and the work area shall be secured. (*See also*, NC DEQ UST Section protocol included in the State Environmental Clearinghouse Comments in **Attachment 28**). The appropriate NC DEQ Regional Office will be contacted and the contamination assessed with an environmental consultant. Appropriate measures will be taken to address the hazard(s) (i.e., contaminated soils, hazardous debris, USTs, lead-based paint, ACM, etc.) which will be characterized by type and properly disposed of in the appropriate NC DEQ Division of Waste Management (DWM) approved facility in accordance with federal, state and local laws and regulations (e.g., RCRA Subtitles C and D, NESHAP 40 CFR 61.150, and NC Solid Laws NCGS 130A, and NC Hazardous Waste Rules 15A NCAC 13A). The NC DEQ DWM strongly recommends that the Town require all contractors to provide proof of proper disposal for all waste to permitted facilities. The NC DEQ Washington Regional Office requires notification if "orphan" USTs are discovered during any excavation operation or if petroleum USTs or ASTs are proposed (**Attachment 28**). Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, state, and federal regulations. If any abandoned wells are discovered, then NC DEQ will be notified and abandoned in accordance with Title 15A. Subchapter 2C.0100. "Any open burning associated with the subject proposal must be in

	compliance with 15A NCAC 2D.1900" (**Attachment 28**). If the 1029 Lynch Drive parcel is acquired for the proposed project, then a Phase I ESA is required. Any identified RECs, CRECs, and HRECs for the 1029 Lynch Drive parcel must be properly addressed and remediated, as required. Additional reports and a re-evaluation under 24 CFR Part 58 might be required. Based on the EPA's Radon Zone Map, the Subject Property is located within Zone 3 with predicted average indoor radon screening levels less than 2 pCi/L (Low Potential) (**Attachment 7**). Due to the low potential for elevated indoor radon levels, no additional steps are required for radon mitigation. However, testing for radon is the only way to determine radon levels in buildings. Preventing the entry of radon into a building is the most effective way of protecting building residents. This can be done in new buildings by incorporating radon-resistant construction protocols and in existing buildings by using underground collection systems that vent the gas into the atmosphere through an exterior pipe. Radon levels within buildings can also be reduced by increasing ventilation rates.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	If any ASTs are included later in the proposed multi-phase project, then the AST(s) will be buried underground or, if that is not possible, then ensured to meet HUD's ASD requirements. The NC DEQ Washington Regional Office requires notification if petroleum USTs or ASTs are proposed (**Attachment 28**). Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, State, and federal regulations.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	A HUD Noise Assessment completed for the proposed project resulted in combined DNLs for all NALs within the HUD **Acceptable** noise level range (65 dB or less) for Current and Projected 2035 (12-year) traffic projections. No further action is required. ***The HUD Noise Assessment will need to be updated if noise-sensitive use NALs are added or moved closer to the major roads during the proposed multi-phase project.*** Short-term construction work will adhere to local noise control standards and regulations. Construction noise will be limited to daytime hours, Monday through

	Friday, except in emergency situations. Construction equipment will be required to meet local sound control requirements.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	As designed, the proposed construction will not encroach into the wetland. The NC DEQ DWR reviewed the proposed project including two onsite ephemeral streams and determined them to not be at least intermittent or not present (**Attachment 15**). The NC DEQ DWR determined that the proposed project is not subject to the CWA Section 401 permit and Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no direct or indirect, temporary or permanent wetland impacts are proposed, then Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required. Compliance with 24 CFR 55 and EO 11990 is required because an incidental wetland is located on the Subject Property. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Additionally, the proposed project can implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall, and remove/control invasive plant species present. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the ERR when received from the permitting agencies.
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	Prior to construction, the Town will ensure the ETJ zoning area is expanded, Town's Zoning Ordinance is updated, and the zoning district classification at the 53-acre site is updated to MXU Mixed-Use District or another compatible district(s) to encompass the proposed project's characteristics in accordance with all applicable laws and regulations.

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	A final geotechnical exploration and report will be completed for pre-construction site preparation. The Subject Property's soil conditions will be assessed using additional test borings, test pit excavations, laboratory testing, and engineering analyses to determine the amount and type of fill materials needed and what subsurface support building foundations will require to ensure building stability and reduce erosion potentials. Any fill material must come from an approved source, and applicable NC regulations on erosion control permit might apply. The soils will be confirmed to be "clean" fill and that it meets project requirements prior to importing the material. The proposed project will be designed in a way to balance the grading and not require as much off-site material, if possible. Any soil removed from the site will be quantified and only exported to an approved site per NC requirements. The proposed project's activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Permits required for the proposed project, such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000), shall be obtained before commencing work and appended to the ERR. The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. The required erosion and sedimentation control plan is included in **Attachment 1**. The plan must be filed with and approved by the applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. Proposed stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and an onsite stormwater retention pond installed.
Solid Waste Disposal / Recycling	The NC DEQ DWM Solid Waste Section (Section) commented that "[f]or any planned or proposed projects, it is recommended that during any land clearing,

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	demolition, and construction, the Town of Princeville and/or its contractors would make every feasible effort to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. ***Any waste generated by and of the project that cannot be beneficially reused or recycled as described, may require disposal at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of Princeville require all contractors to provide proof of proper disposal for all generated waste to permitted facilities***." In addition, the NC DEQ notes that "[a]ny open burning associated with subject proposal must be in compliance with 15A NCAC 2D.1900." Further, demolition of structures containing ACM must be in compliance with 15A NCAC 20.1110(a)(1) which requires *notification* to the NC Department of Health and Human Services' HHCU and *removal* prior to demolition.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: Andrea Sievers Date: 12/22/23

Name/Title/Organization: Andrea Gievers, Environmental SME, NCORR

Certifying Officer Signature: DocuSigned by: DD9709CA67CA4E9... Date: 12/22/2023

Name/Title: Matthew Arlyn, Chief Recovery Officer, NCORR

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

ATTACHMENT 1:

Proposed Project Location Maps and Site Plans

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

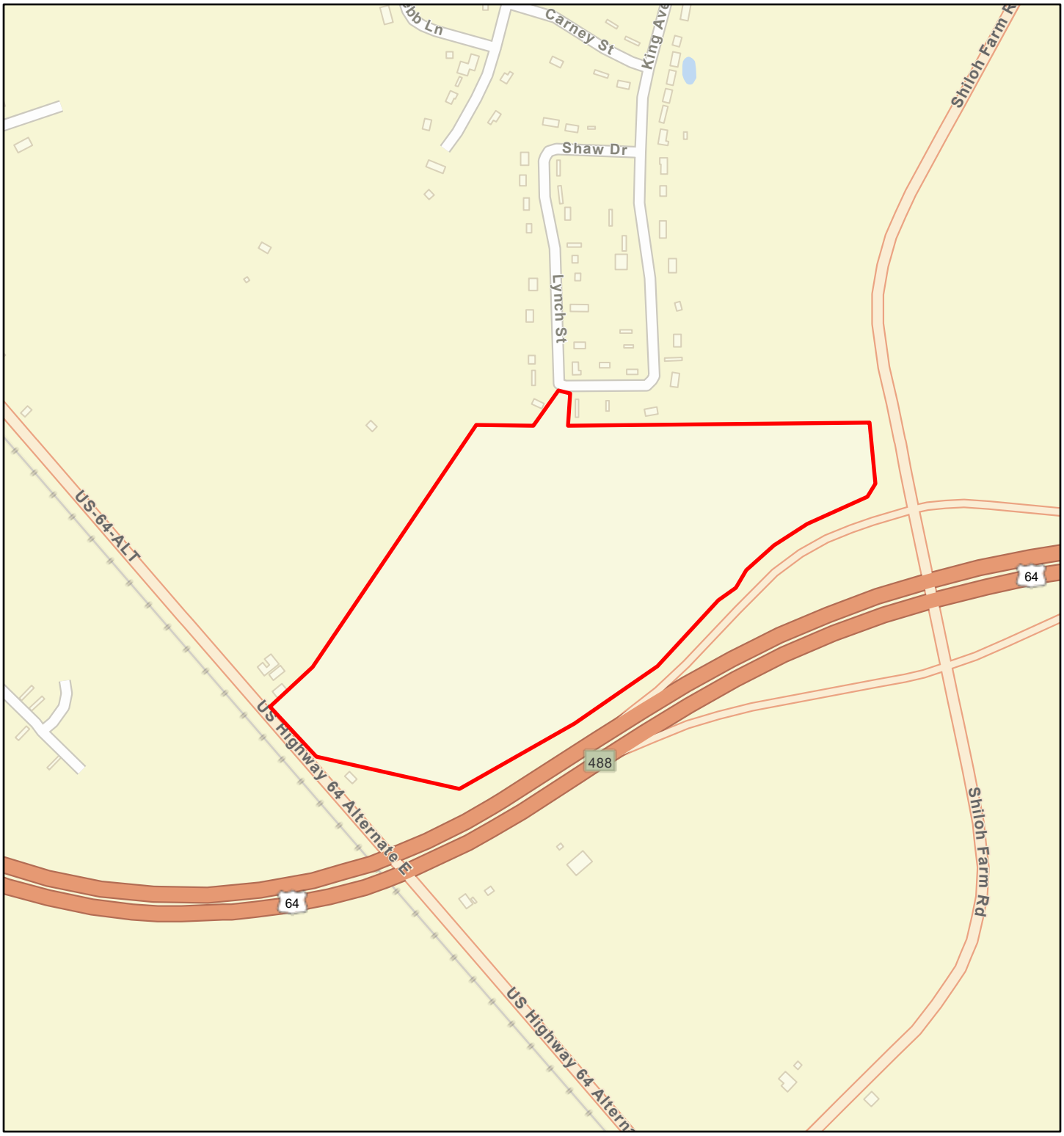
1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Street Map



October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:18,056

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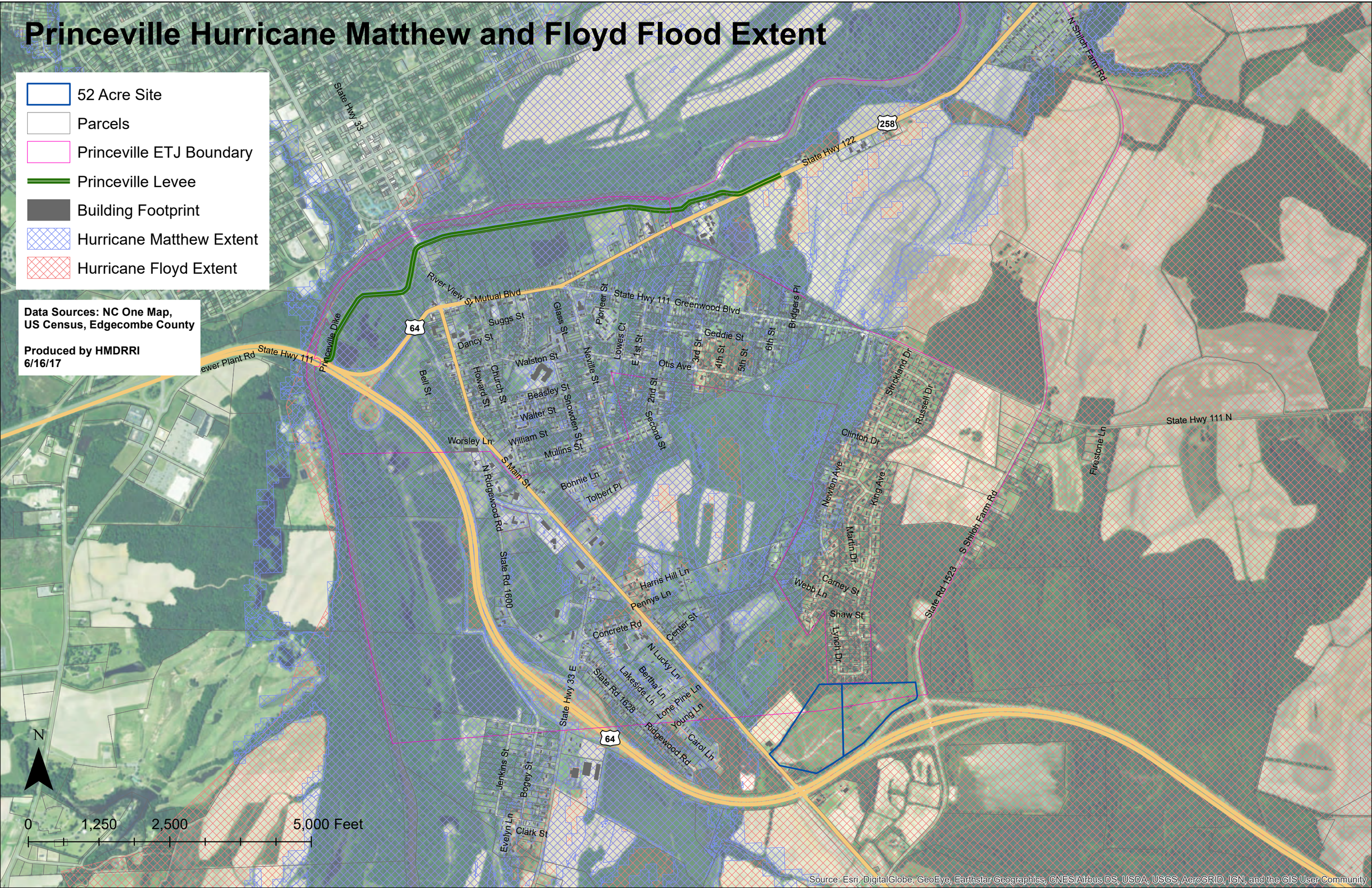
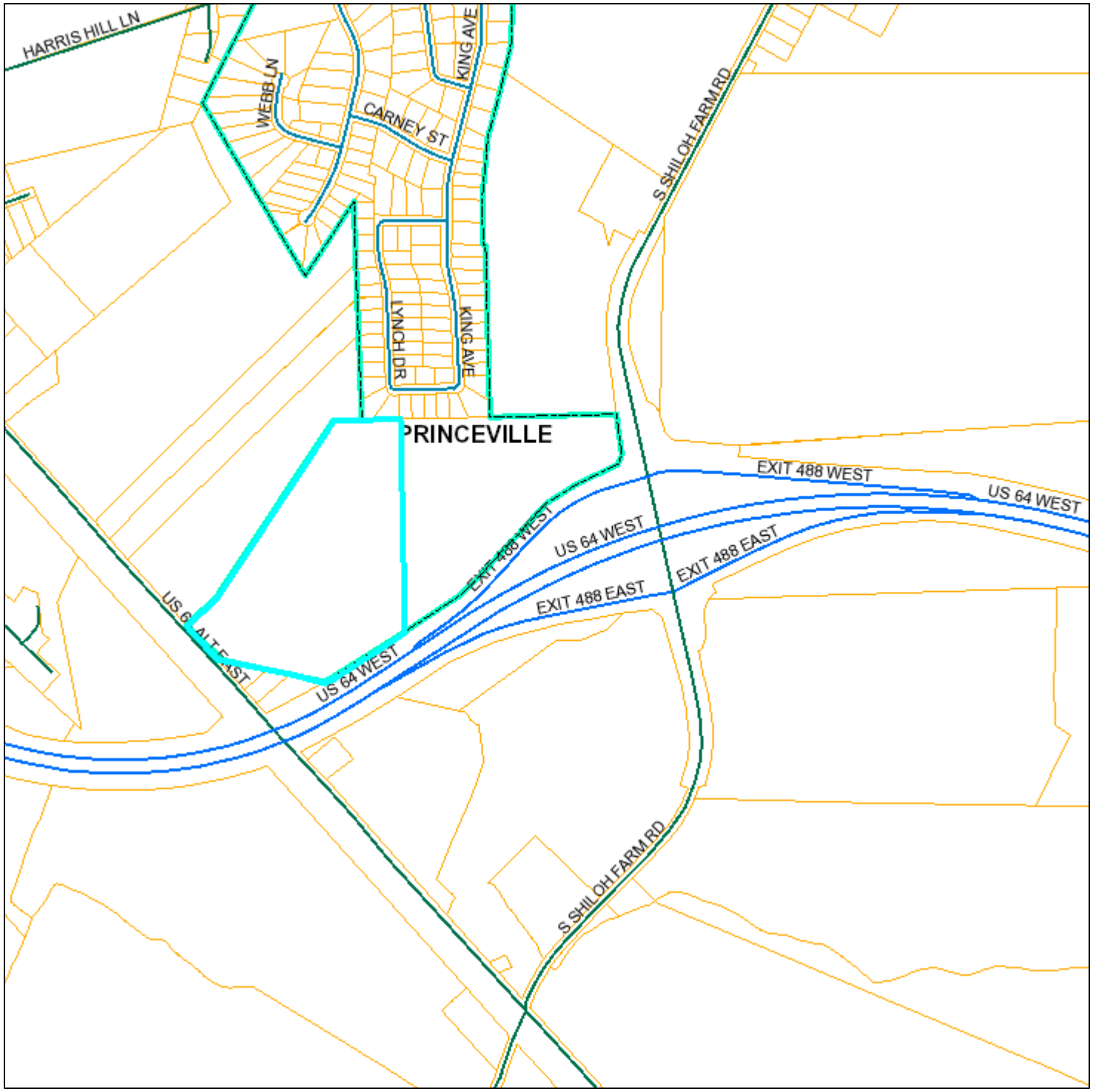
Copyright:© 2013 National Geographic Society, i-cubed

Princeville Hurricane Matthew and Floyd Flood Extent





PIN: 474714756400
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 2 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 240000
DEED LOC: 1672/0336
ACCOUNT: 209203
ACREAGE: 29.96
LAND VALUE: 57870
BLDG VAL: 0
NET VALUE: 57870
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

Edgecombe County

December 30, 2021

1 inch = 854 feet

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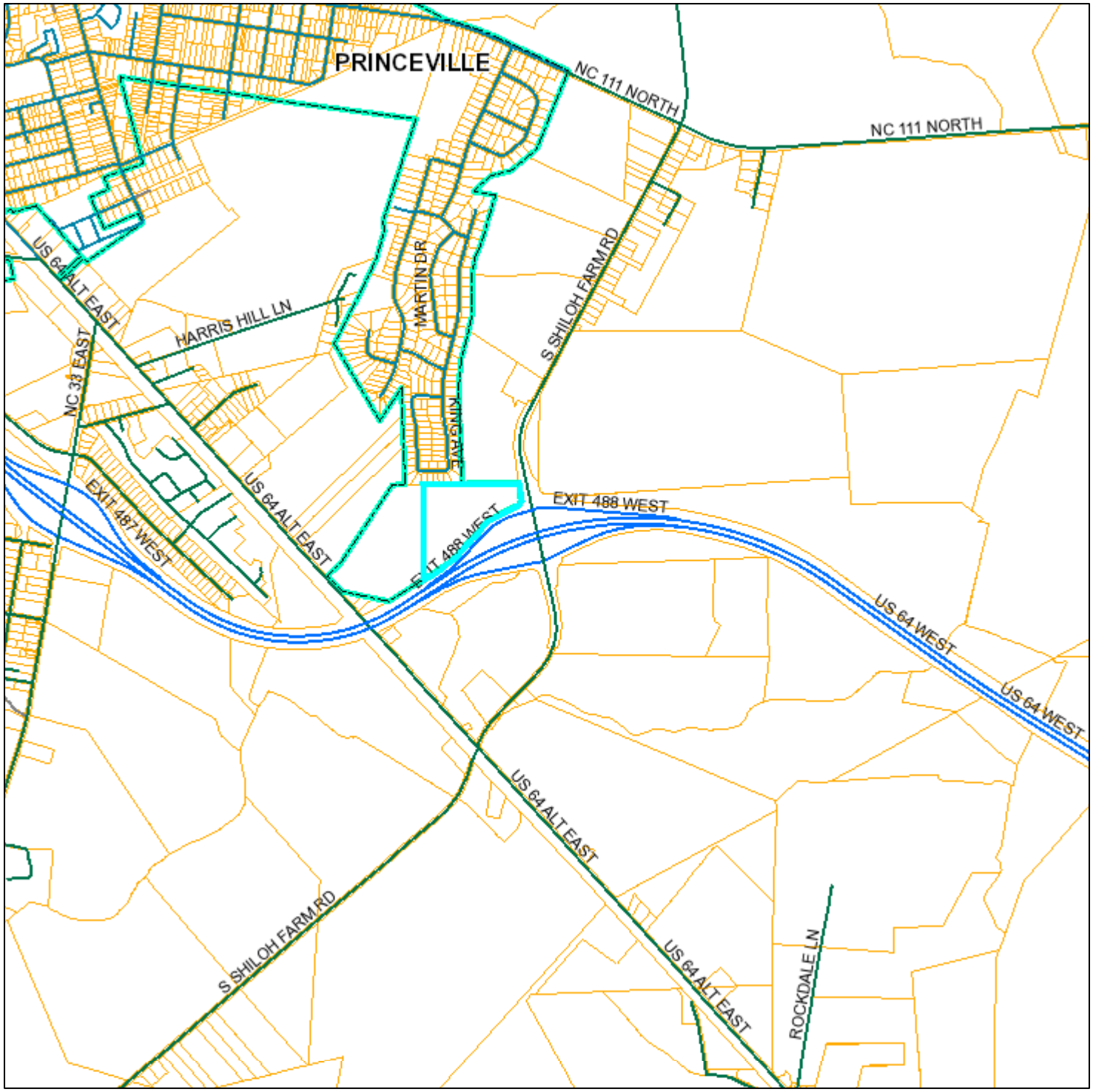
0 0.125 0.25 0.5 km



PIN: 474724794700
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 1 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 190000
DEED LOC: 1672/0330
ACCOUNT: 209203
ACREAGE: 23
LAND VALUE: 52460
BLDG VAL: 0
NET VALUE: 52460
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

Edgecombe County

December 30, 2021

1 inch = 1,918 feet

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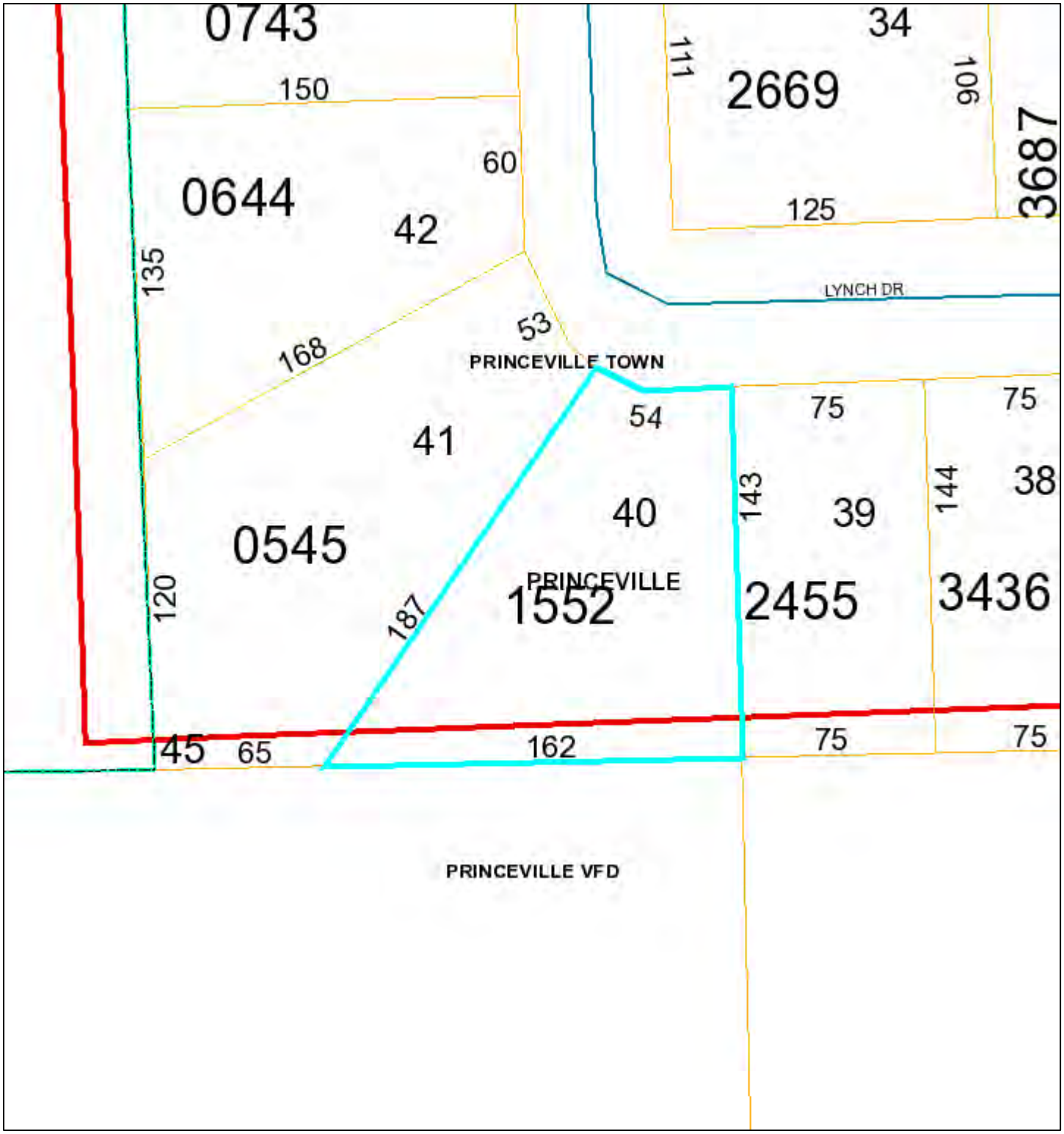
0 0.3 0.6 1.2 km

1029 Lynch Drive - Edgecombe County



PIN:	474725155200	**ACREAGE:**	0
OWNER:	HIGGINS CAROLYN D JENKINS	**LAND VALUE:**	9000
ADDRESS:	1000 VANCE DR	**BLDG VAL:**	0
CITY:	TARBORO	**NET VALUE:**	9000
STATE:	NC	**DEFERRED:**	0
ZIP:	27886	**SUBDIVISION:**	SOUTHERN TERRACE SECT 6 (B)
LOCATION:	1029 LYNCH DR	**TAX CODES:**	C10
PROPERTY DESCRIPTION: LT 40 SOUTHERN TERRACE SECT 6		**DEED LOC:**	1491/0727
ZONING:		**DEED DATE:**	5/22/2007
		SALE PRICE:	0

1 inch = 54 feet

0 0.005 0.01 0.02 mi

0 0.0075 0.015 0.03 km

October 5, 2023

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

53 ACRE PROJECT

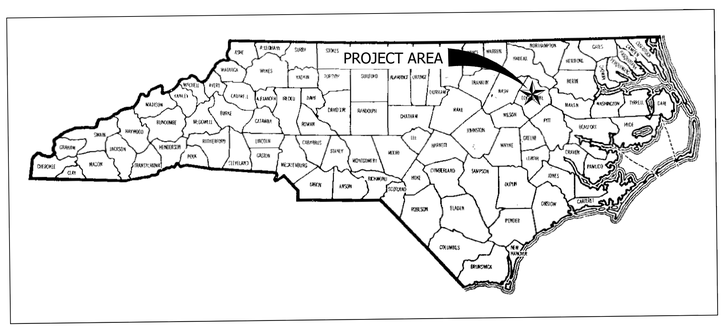
PREPARED FOR

TOWN OF PRINCEVILLE

IN THE TOWN OF PRINCEVILLE, EDGECOMBE COUNTY
NORTH CAROLINA

7/13/23

Sheet List Table	
Sheet Number	Sheet Title
C-0.00	COVER SHEET
C-0.01	GENERAL NOTES
C-0.02	EXISTING CONDITIONS
C-1.00	OVERALL LAYOUT
C-1.01	INTERMEDIATE STAKING PLAN (1 OF2)
C-1.02	INTERMEDIATE STAKING PLAN (2 OF 2)
C-1.03	STAKING PLAN (1 OF 4)
C-1.04	STAKING PLAN (2 OF 4)
C-1.05	STAKING PLAN (3 OF 4)
C-1.06	STAKING PLAN (4 OF 4)
C-1.05	TRAFFIC & SIGNAGE PLAN (1 OF 3)
C-1.06	TRAFFIC & SIGNAGE PLAN (2 OF 3)
C-1.07	TRAFFIC & SIGNAGE PLAN (3 OF 3)
C-2.00	INITIAL - EROSION & SEDIMENT CONTROL PLAN
C-2.01	DURING CONSTRUCTION - EROSION & SEDIMENT CONTROL PLAN
C-2.02	STABILIZATION - EROSION & SEDIMENT CONTROL PLAN
C-3.00	OVERALL GRADING
C-3.01	INTERMEDIATE GRADING PLAN (1 OF 2)
C-3.02	INTERMEDIATE GRADING PLAN (2 OF 2)
C-3.03	GRADING PLAN (1 OF 4)
C-3.04	GRADING PLAN (2 OF 4)
C-3.05	GRADING PLAN (3 OF 4)
C-3.06	GRADING PLAN (4 OF 4)
C-4.00	OVERALL WATER
C-4.01	INTERMEDIATE WATER PLAN (1 OF 2)
C-4.02	INTERMEDIATE WATER PLAN (2 OF 2)
C-4.03	WATER PLAN (1 OF 4)
C-4.04	WATER PLAN (2 OF 4)
C-4.05	WATER PLAN (3 OF 4)
C-4.06	WATER PLAN (4 OF 4)
C-5.00	OVERALL WASTEWATER
C-5.01	INTERMEDIATE WASTEWATER PLAN (1 OF 2)
C-5.02	INTERMEDIATE WASTEWATER PLAN (2 OF 2)
C-5.03	WASTEWATER PLAN (1 OF 4)
C-5.04	WASTEWATER PLAN (2 OF 4)
C-5.05	WASTEWATER PLAN (3 OF 4)
C-5.06	WASTEWATER PLAN (4 OF 4)
C-6.00	OFFSITE FORCE MAIN PLAN & PROFILE (1 OF 10)
C-6.01	OFFSITE FORCE MAIN PLAN & PROFILE (2 OF 10)
C-6.02	OFFSITE FORCE MAIN PLAN & PROFILE (3 OF 10)
C-6.03	OFFSITE FORCE MAIN PLAN & PROFILE (4 OF 10)
C-6.04	OFFSITE FORCE MAIN PLAN & PROFILE (5 OF 10)
C-6.05	OFFSITE FORCE MAIN PLAN & PROFILE (6 OF 10)
C-6.06	OFFSITE FORCE MAIN PLAN & PROFILE (7 OF 10)
C-6.07	OFFSITE FORCE MAIN PLAN & PROFILE (8 OF 10)
C-6.08	OFFSITE FORCE MAIN PLAN & PROFILE (9 OF 10)
C-6.09	OFFSITE FORCE MAIN PLAN & PROFILE (10 OF 10)
C-7.00	OFFSITE EXISTING CONDITIONS & DEMOLITION PLAN
C-7.01	OFFSITE ROADWAY IMPROVEMENTS PLAN
C-8.00	ROAD PROFILE (1 OF 3)
C-8.01	ROAD PROFILE (2 OF 3)
C-8.02	ROAD PROFILE (3 OF 3)
C-9.00	STORM DRAIN PROFILE (1 OF 4)
C-9.01	STORM DRAIN PROFILE (2 OF 4)
C-9.02	STORM DRAIN PROFILE (3 OF 4)
C-9.03	STORM DRAIN PROFILE (4 OF 4)
C-10.00	SEWER PROFILE (1 OF 3)
C-10.01	SEWER PROFILE (2 OF 3)
C-10.02	SEWER PROFILE (3 OF 3)



VICINITY MAP
NOT TO SCALE

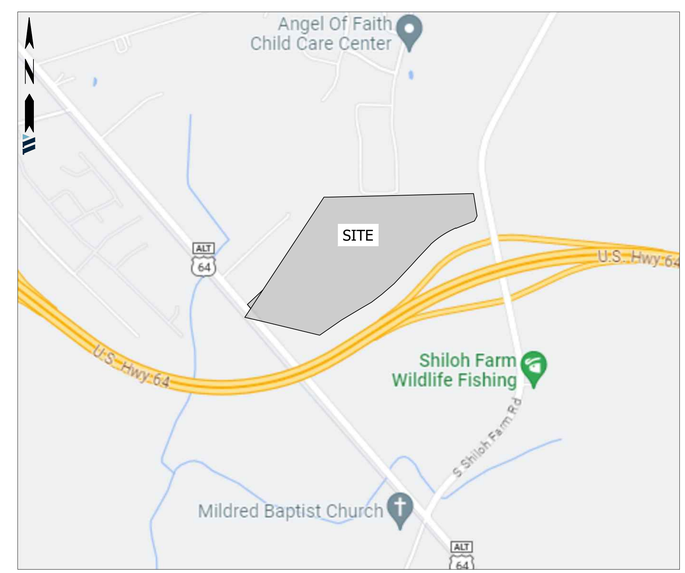
MAYOR
BOBBIE JONES

MAYOR PRO TEM
ALVIN JONES

COMMISSIONER
MILTON BULLOCK
LINDA JOYNER
JOEROAM MYRICK

TOWN MANAGER
Dr. GLENDA L. KNIGHT

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115



PROJECT AREA MAP
NOT TO SCALE

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GNRL.dwg JNIXON 7/13/2023 4:00 PM

GENERAL NOTES:

ADHERE TO THE FOLLOWING ITEMS IN THE CONSTRUCTION OF TOWN OF PRINCEVILLE 53 ACRE PROJECT DEVELOPMENT UNLESS OTHERWISE NOTED.

1. Existing utilities are located on plans approximately. Notify utility locating service to mark location of existing utilities at least 72 hours prior to commencing construction activity. Contractor responsible for verifying exact location of these existing utilities. The cost to repair these facilities, if damaged, shall be the responsibility of the contractor.
2. Contractor shall contact the N.C. Department of Transportation prior to any work within NCDOT right-of-way. The NCDOT district engineer for this project is Gray Keeter, PE (pgkeeter@ncdot.gov) for Edgecombe County.
3. Contractor shall protect existing property corner markers. Disturbed property corners shall be re-established by a professional land surveyor at the contractor's expense.
4. The contractor shall be responsible and liable for any damages to existing utilities, storm drainage, headwalls, and ther facilities caused by the contractor or resulting from the contractor's work associated with accomplishing the project. The contractor shall correct or replace those utilities, storm drainage, headwalls, and other facilities damaged or destroyed during construction whether shown on the plans or not, according to the NCDOT engineer's specifications within NCDOT right - of - way and engineer's specifications outside of right - of - way.
5. Support existing poles, fences, culverts, pavement, utilities, curbing and other structures during construction. Repair damaged items to their original condition at no additional cost to the owner according to the NCDOT engineer's specifications within NCDOT right - of -way and engineer's specifications outside of right - of - way.
6. Open cut gravel driveways. Replace curb & gutter and sidewalk with new concrete to match the existing cross section. Provide pavement patching per details.
7. Existing trees are to be protected unless otherwise noted.
8. City or NCDOT driveway permit required. Any encroachment agreements shall be approved before installation.
9. Contractor must notify ONE - Call Center, Inc. (NC ONE-CALL) (811) at least 72 hours prior to start of excavation or trenching to have all underground utilities located.
10. Contractor shall notify Public Works, Street Maintenance Division 48 hours prior to making connections to existing storm drains located within public storm drainage easements or right-of-way.
11. This property is partially located in a Special Flood Hazard Area as determined by the Federal Emergency management Agency. This property is located in Zones "X" as shown on FIRM Panel number 4737/4738/4746, Community Number 370318, index date November 3,2004/June 2, 2015/ November 3,2004
12. Lane closures on thoroughfare roads are only permitted between the hours of 9:00 AM and 4:00 PM, Monday through Friday, unless otherwise permitted by the Traffic Engineer. In addition, there will be no lane closures on holidays including the day before or after said holiday. A traffic control plan prepared in accordance with the NCDOT Manual of uniform Traffic Control Devices is required for all lane closures and must be approved by the traffic Engineer.
13. River basin: Tar-Pamlico

EROSION CONTROL NOTES:

1. Install silt fence over and around the top of existing pipes and inlets at disturbed areas.
2. All disturbed areas shall be graded to minimize runoff.
3. Install silt fence around spoil piles and along trenches to minimize sediment from entering roadside ditches and existing drainage outlets.
4. All disturbed areas on the banks and approaches to ditch, stream or creek crossings shall be graded not to exceed 3:1 ratio and stabilized with bank stabilization. Surface water runoff shall be diverted from disturbed areas. All slopes shall be stabilized within 7 calendar days of disturbance.
5. Provide erosion control measures around stock/waste piles and staging areas as needed or as directed by engineer. Protect storm pipe inlets from sediment runoff from land disturbing activities with silt fence, stone check dam, or arc filter as appropriate for site conditions.
6. Replace disturbed storm pipe outlet protection with equal or greater amount of rip-rap immediately upon completion of installation of pipe.
7. Where the area around an outlet is disturbed and no outlet protection exists, class "b" rip-rap shall be placed around pipe outlet as needed or as directed by the engineer.
8. Provide erosion control matting in all disturbed ditches and swales unless directed otherwise by engineer.
9. All disturbed areas related to pipe installation shall be fertilized, limed, seeded, and mulched within fourteen (14) working days of completion of any land disturbing activity, or temporary seeded within fourteen (14) working days of any land disturbing activity.
10. Trench should be backfilled daily.
11. New or affected cut or filled slopes must be at an angle that can be retained by vegetative cover, and must be provided with a ground cover sufficient to restrain erosion within 7 calendar days of completion of any phase (rough or final) of grading. Rye grass is not in the approved seeding specifications nor is it an acceptable substitute for the providing of a temporary ground cover.
12. A permanent ground cover, sufficient to restrain erosion, must be provided within the shorter of fourteen working or 90 calendar days (if in a high quality zone, the shorter of 14 working or 60 calendar after completion of construction or development on any portion of the project (rye grass is not in the approved seeding specifications nor is it an acceptable substitute for the providing of a permanent ground cover).
13. At any given time within the project area, the maximum affected exposed and unrestored" area is limited to the lesser of 1 (one) acres (approximately 1 mile) or the affected length along any given road section. A road section being defined as a continuous section of road having the same number or road name.
14. No excavated material shall be placed on road during construction.

EROSION CONTROL CONSTRUCTION SEQUENCE:

1. Clear site only as necessary to install erosion control devices as indicated on the drawings or specified in the specifications.
2. Once erosion control devices are approved, begin construction operations.
3. Maintain erosion control devices as necessary during installation of water main, inspect devices after every rainfall event and clean out traps and/or check dams when half full.
4. As construction progresses, install additional erosion control devices as indicated on the drawings, called for in the specifications, or as needed or directed by engineer.
5. Seed and mulch disturbed areas within fourteen (14) working days of disturbance:
   a) Upon completion of any phase of construction.
   b) When work will not proceed in an area within the above time frame.
6. Upon approval of site stabilization, remove temporary erosion devices, dress out area, and seed and mulch. Permanent erosion control devices shall be installed and approved by engineer.
7. Post construction and existing grades within the limits of disturbance shall be the same to the greatest extent practicable so as not to change drainage patterns, nor to create pocket wetlands. Positive drainage shall be provided.
8. Erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur. DEMLR Raleigh regional office (919-791-4200) must be contacted at least 48 hours prior to commencing the land disturbing activity.
9. Self-inspections for erosion and sedimentation control measures are to be performed a least once every seven calendar days and with 24 hours of every rain event of greater than 1 inch. Any needed repairs shall be maintained as specified in the construction details on this plan. A rain gauge shall be installed at the project site for monitoring.
10. Per NPDES requirements, a rain gauge, self-inspections records, permit, Certificate of Coverage, and S&E plan are required to be maintained on site and accessible during inspection. It is recommended that these items be placed in a permits box at the beginning or entrance of project.
11. All applicable E&SC measures will be installed at the commencement of demolition phase.
12. Any dewatering is to be done through a silt bag with a floating intake that is constantly monitored while in use.
13. When the project is complete, the permittee shall contact DEMLP to close out the E&SC plan. After DEMLR informs the project permittee of the close out, via inspection report, the permittee shall visit deq.nc.gov/NCG01 to submit am electronic notice of termination (e-NOT). A $100 annual general permit fee will be charged until the e-NOT has been filled out.

LEGEND

- PROPOSED SEWER EASEMENT
- PROPOSED WATER EASEMENT
- PROPOSED LEXINGTON COUNTY STORM DRAINAGE EASEMENT
- WL — PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED SANITARY SEWER MAIN
- PROPOSED SEWER MANHOLE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- INLET PROTECTION
- CONCRETE SIDEWALK
- PROPOSED PROPERTY LINE
- ASPHALT ROAD SECTION
- EXISTING PROPERTY LINE
- 335 — EXISTING CONTOUR
- WETLAND BUFFER
- 330 — PROPOSED CONTOUR
- PROPOSED STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE STRUCTURE
- 158.10 — SPOT ELEVATION
- FLOW DIRECTION ARROW

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GENERAL NOTES

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

PROGRESS DRAWING
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DESIGNED BY: JFS
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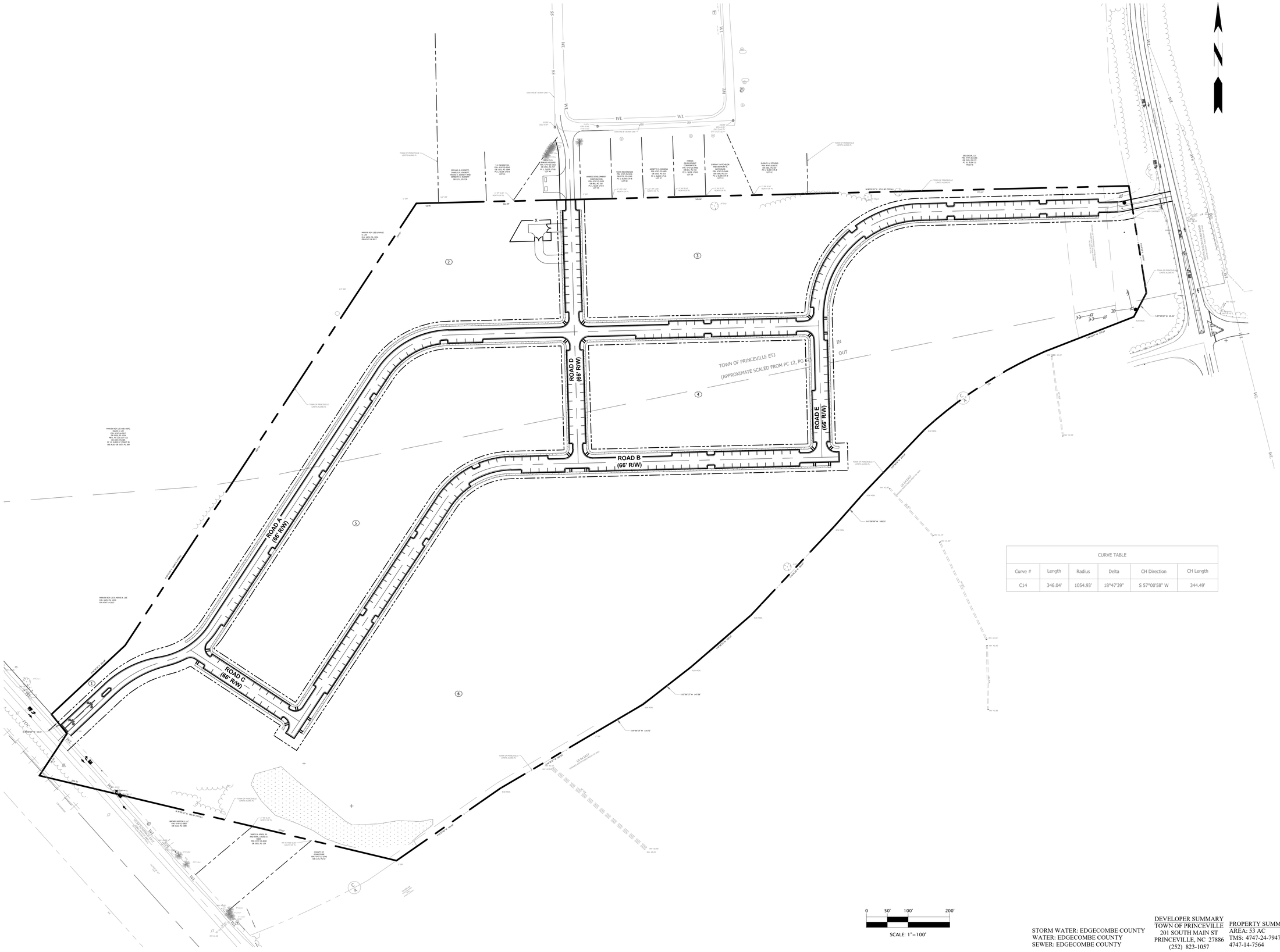

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
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DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

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PROJECT NO.: 2849-L
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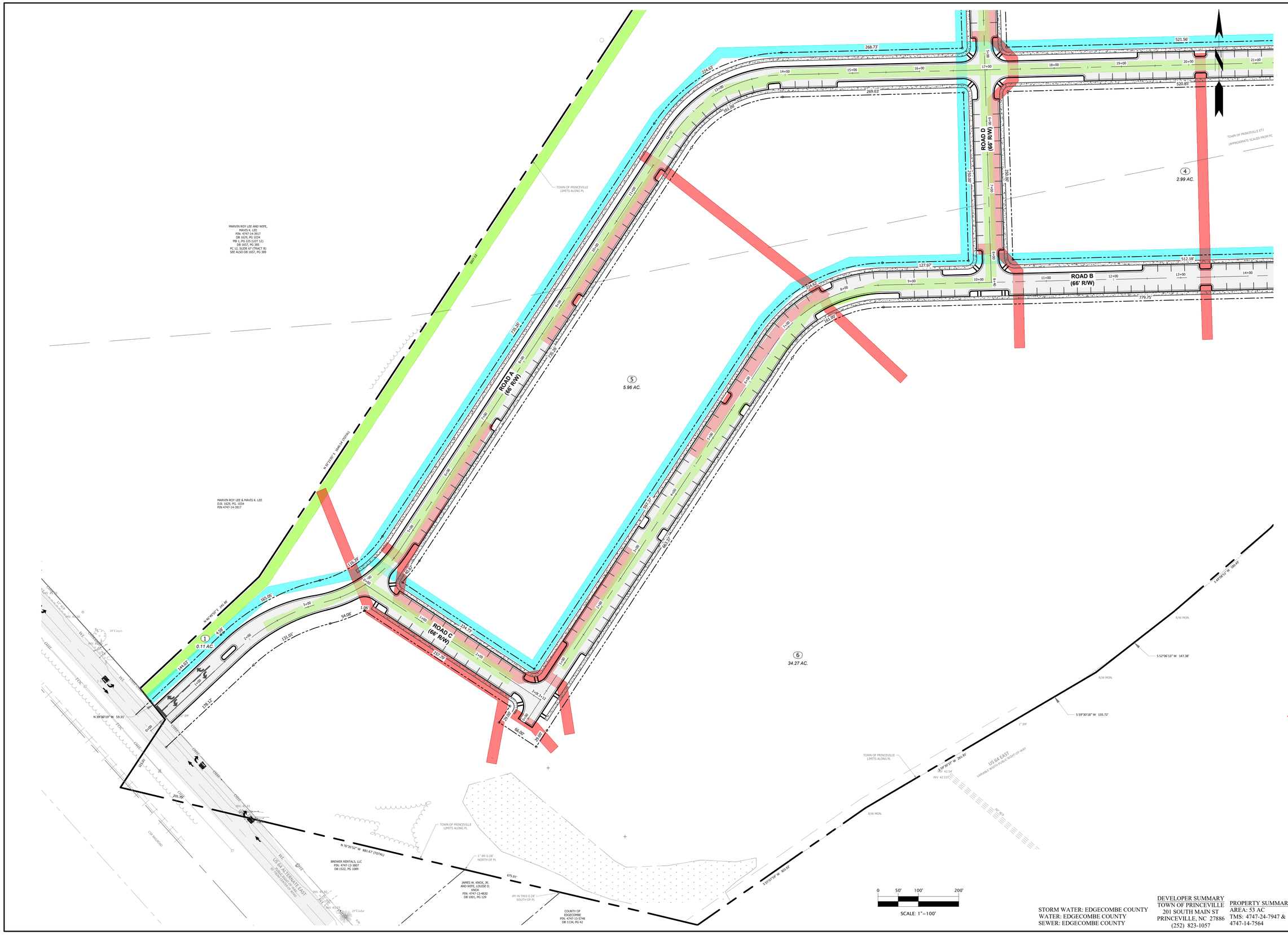

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE STAKING PLAN (1 OF2)

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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
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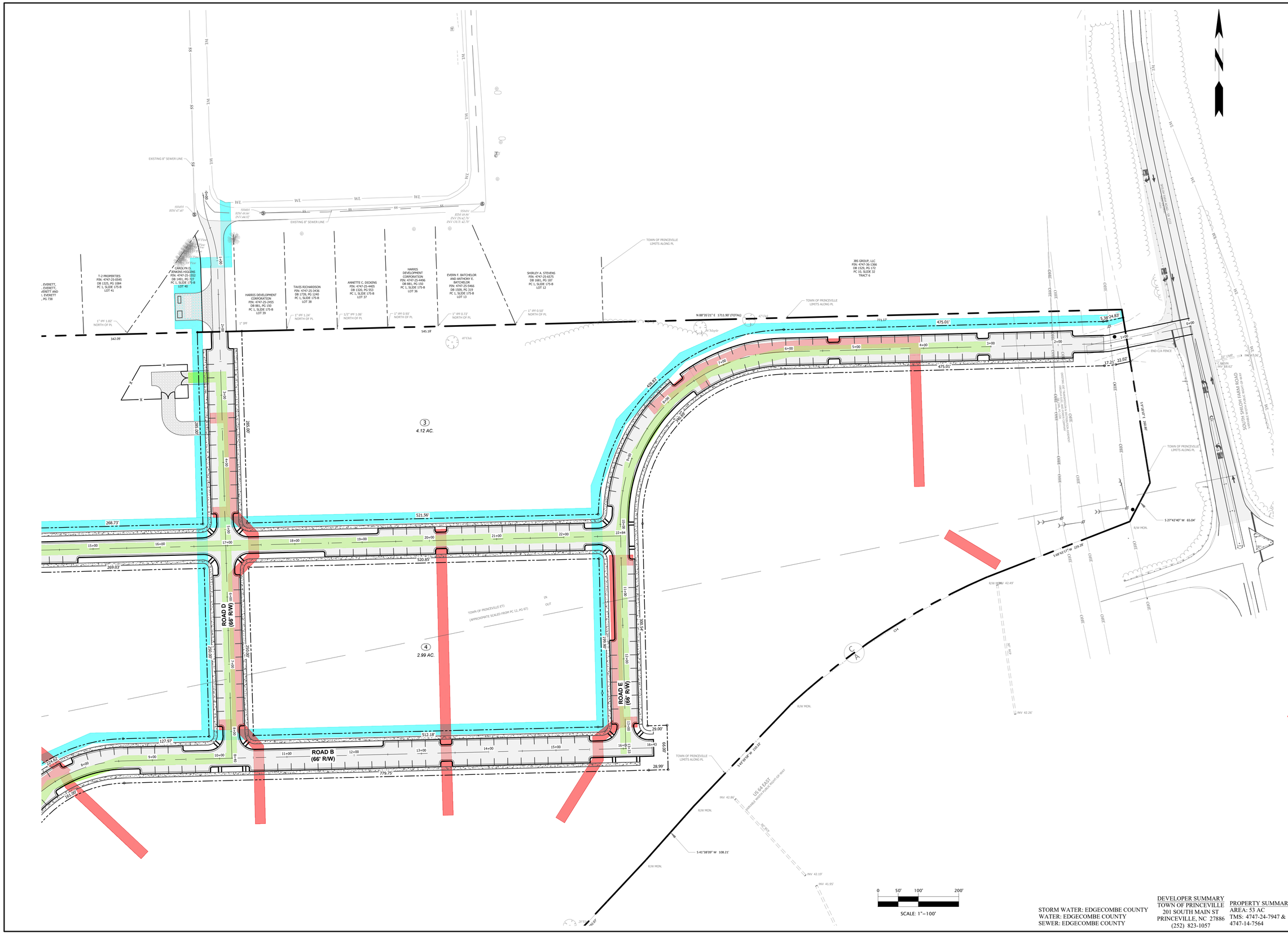

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE STAKING PLAN (2 OF 2)

PROGRESS DRAWING
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DESIGNED BY:	JFS
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CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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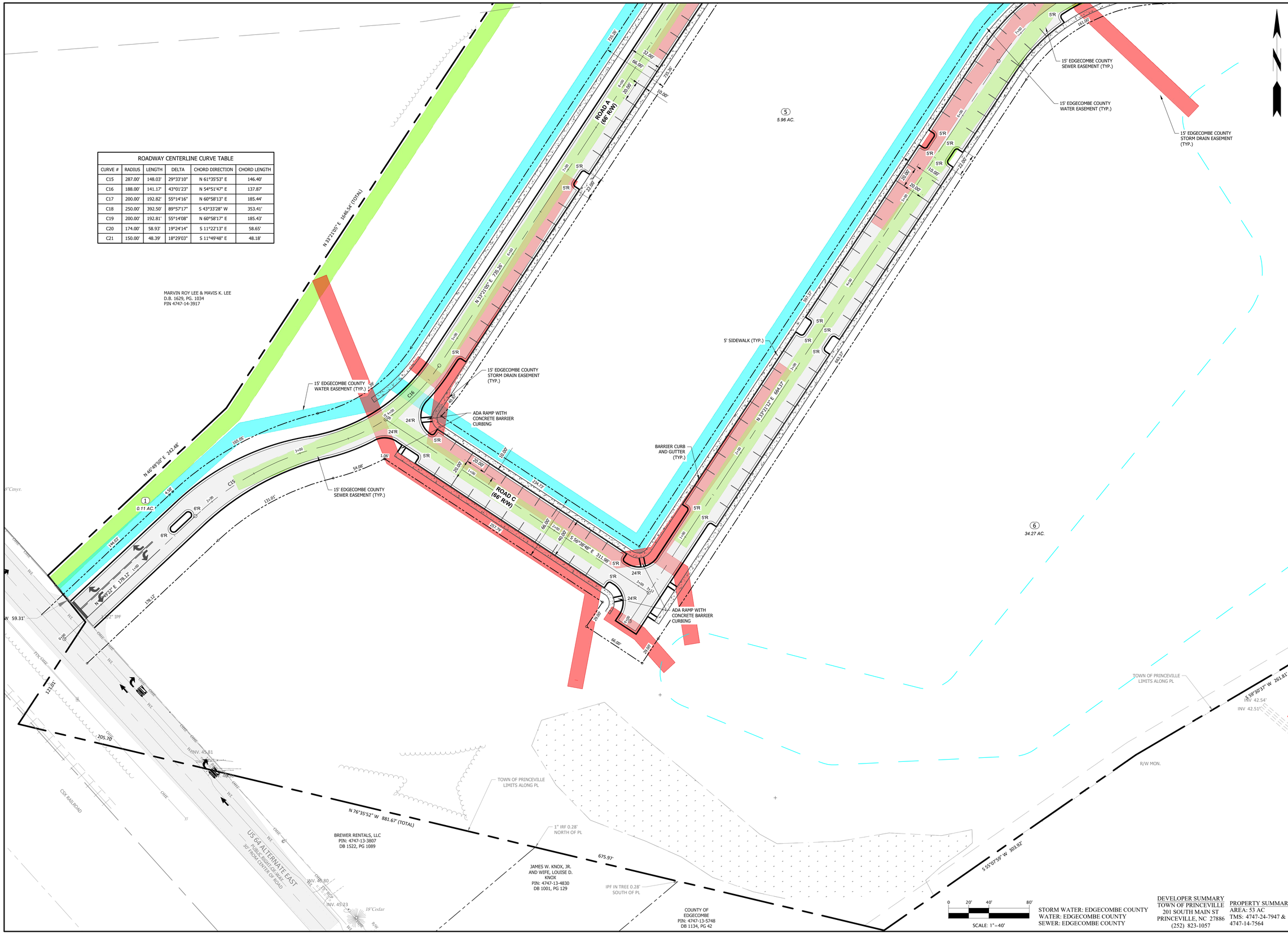

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (1 OF 4)

PROGRESS DRAWING
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DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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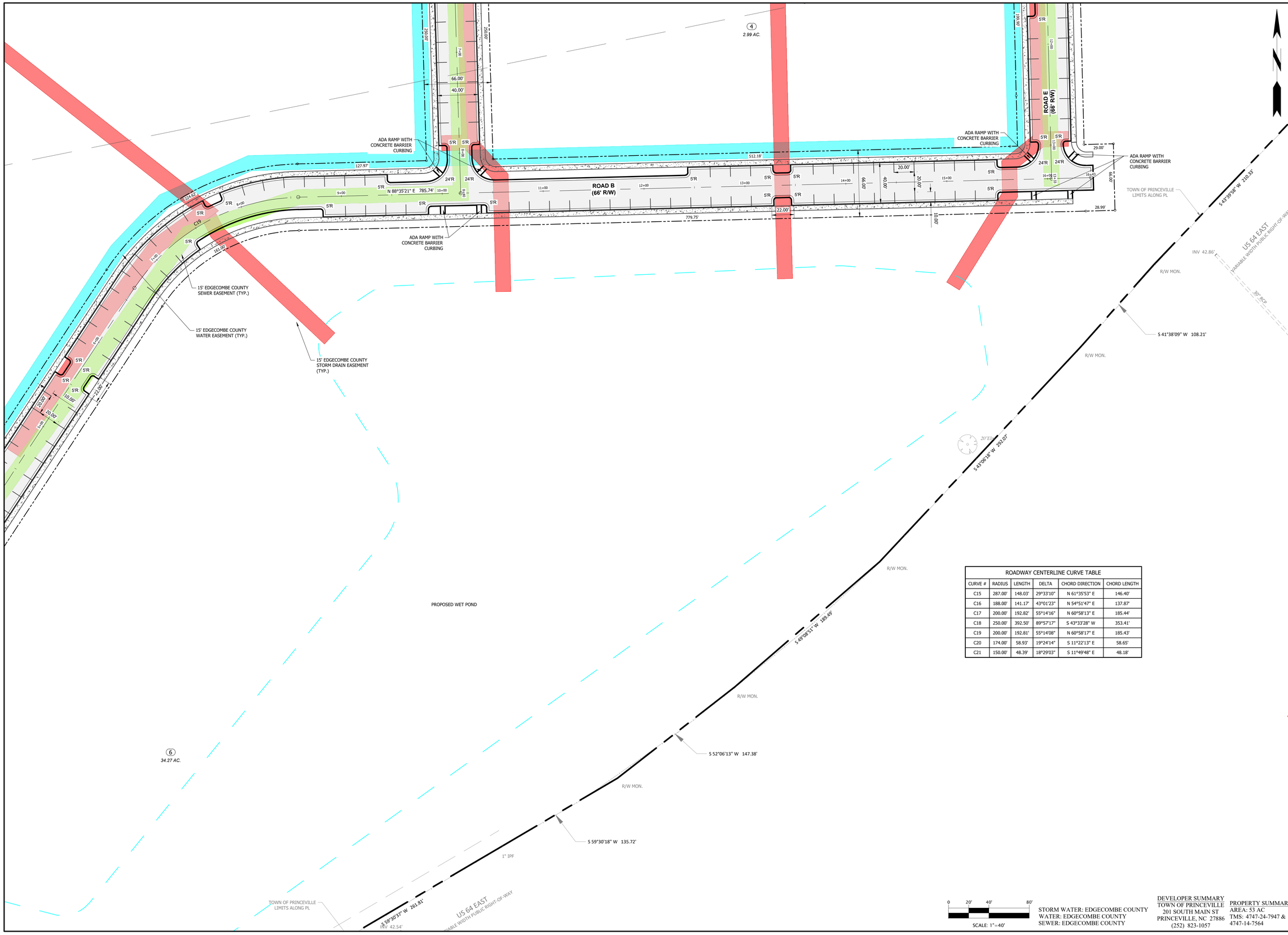

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0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (2 OF 4)

PROGRESS DRAWING
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PROJECT NO.: 2849-L
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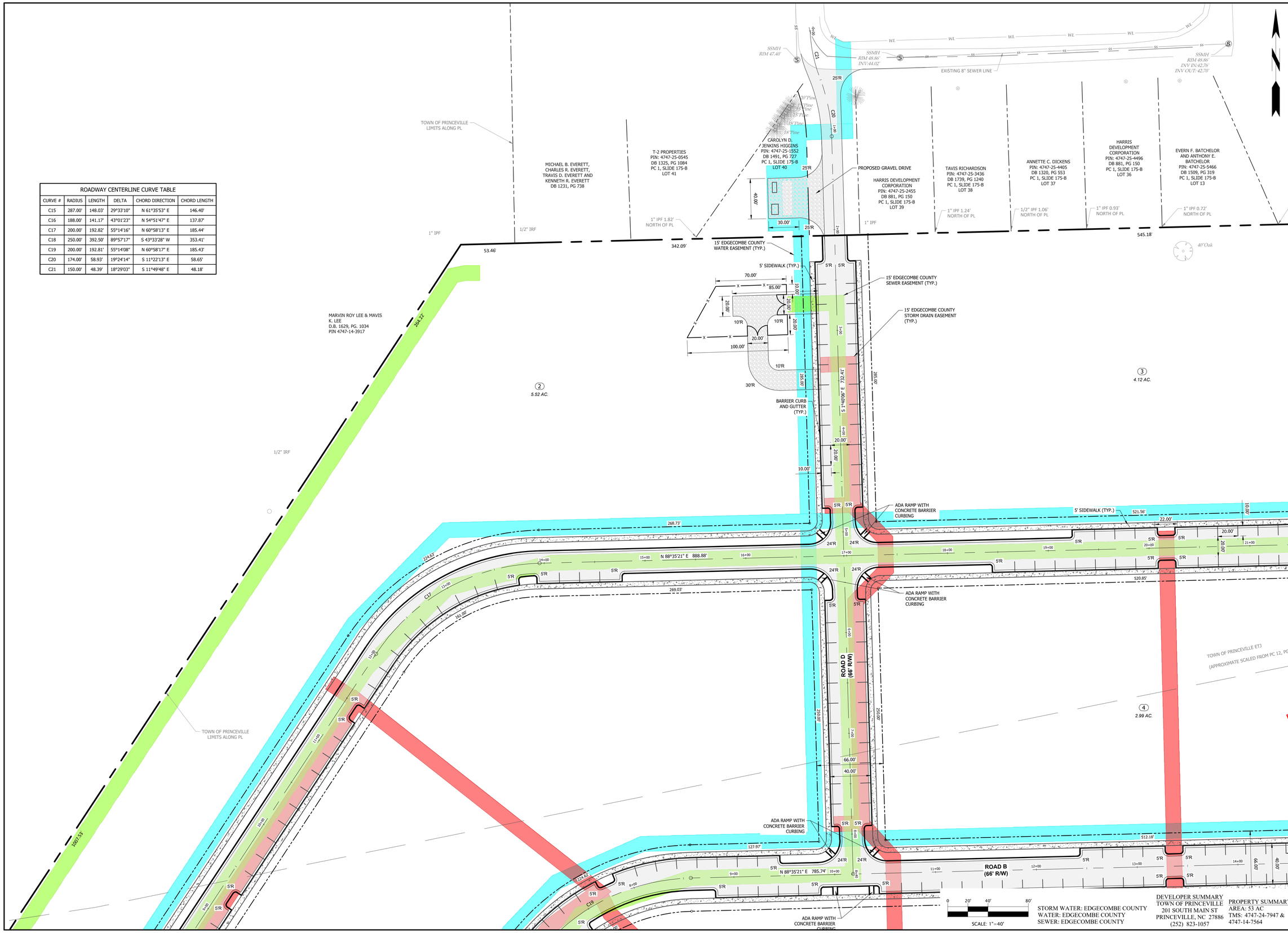

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (3 OF 4)

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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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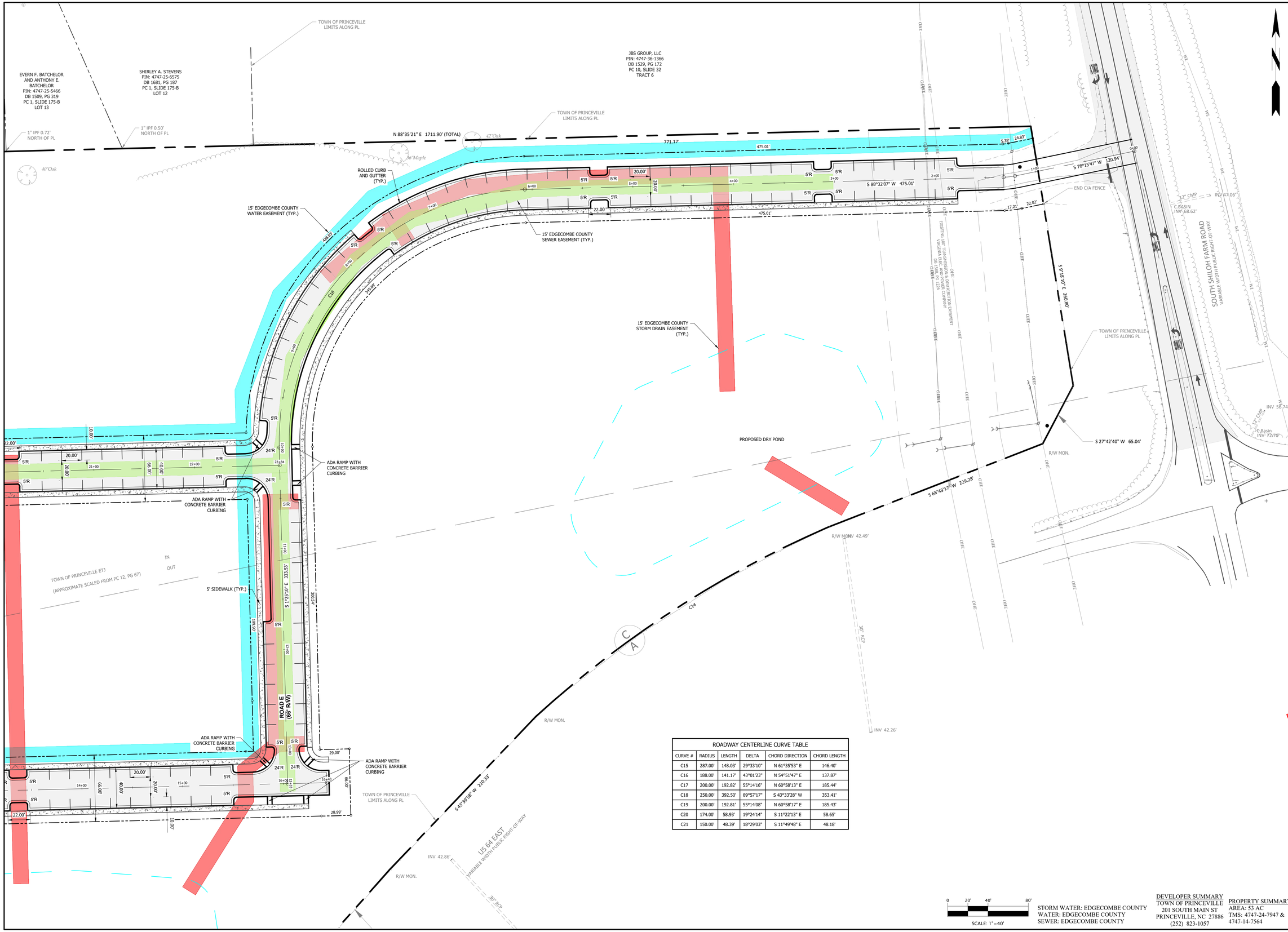

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SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

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PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (4 OF 4)

PROGRESS DRAWING
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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

TRAFFIC & SIGNAGE PLAN (1 OF 3)

PROGRESS DRAWING
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DRAWN BY:	JKN
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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
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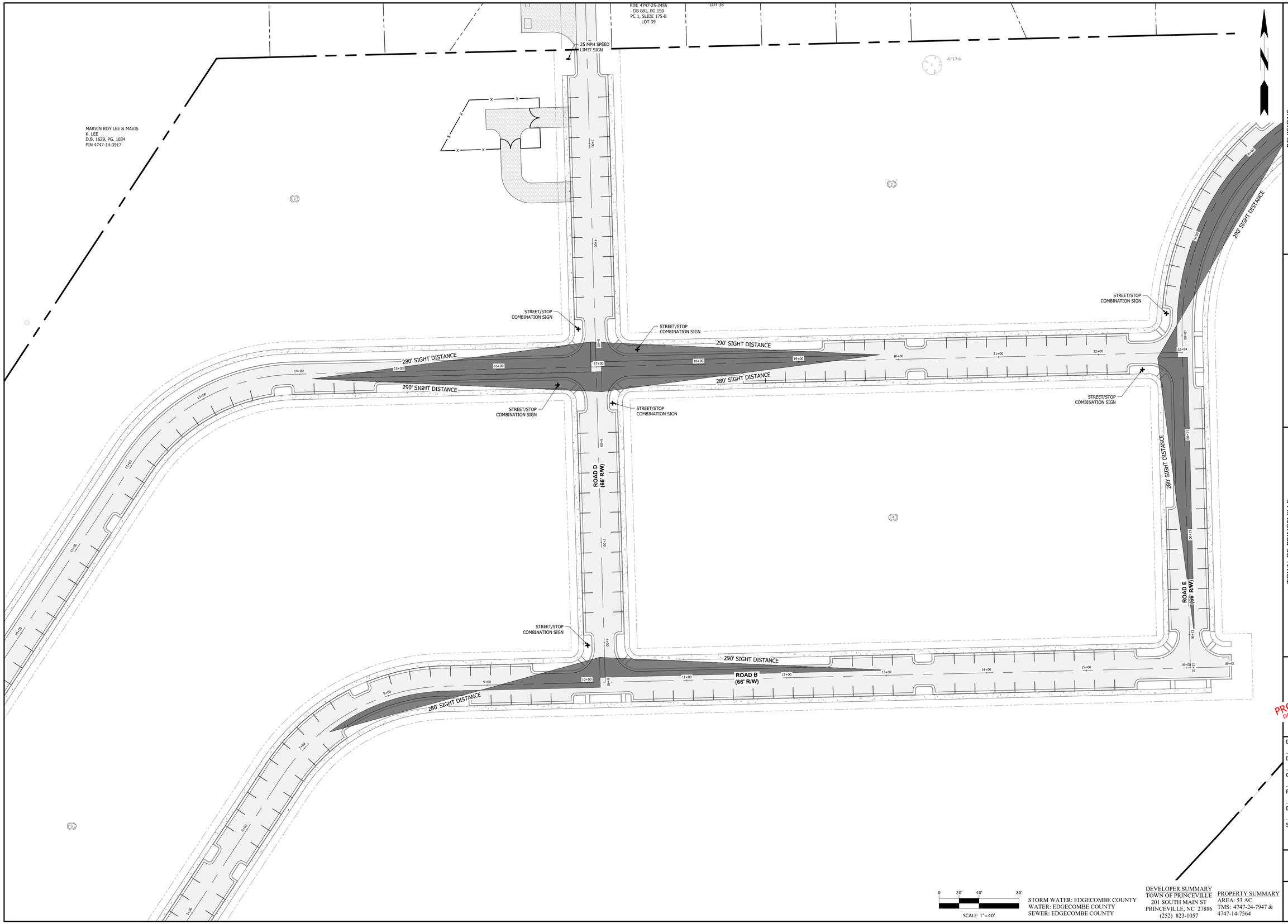

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
TRAFFIC & SIGNAGE PLAN (2 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

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DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
TRAFFIC & SIGNAGE PLAN (3 OF 3)

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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INITIAL – EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-2.00

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
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(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT

DURING CONSTRUCTION – EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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ERONET S150 EROSION CONTROL BLANKET BY NORTH AMERICAN GREEN. ANY ALTERNATIVES MUST BE APPROVED BY THE ENGINEER AND LEXINGTON COUNTY PRIOR TO APPLICATION.

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STABILIZATION - EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-2.02

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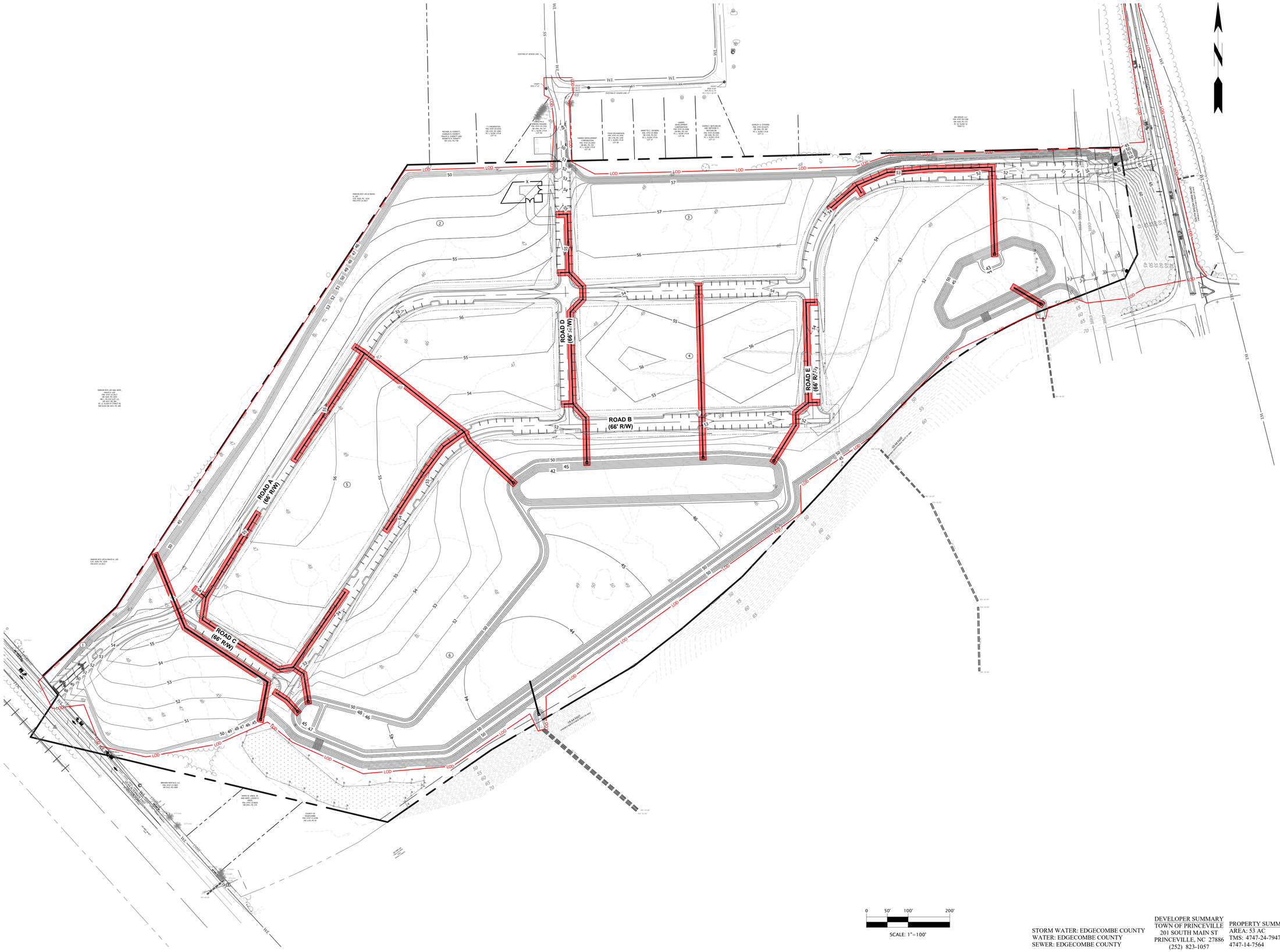

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-3.00

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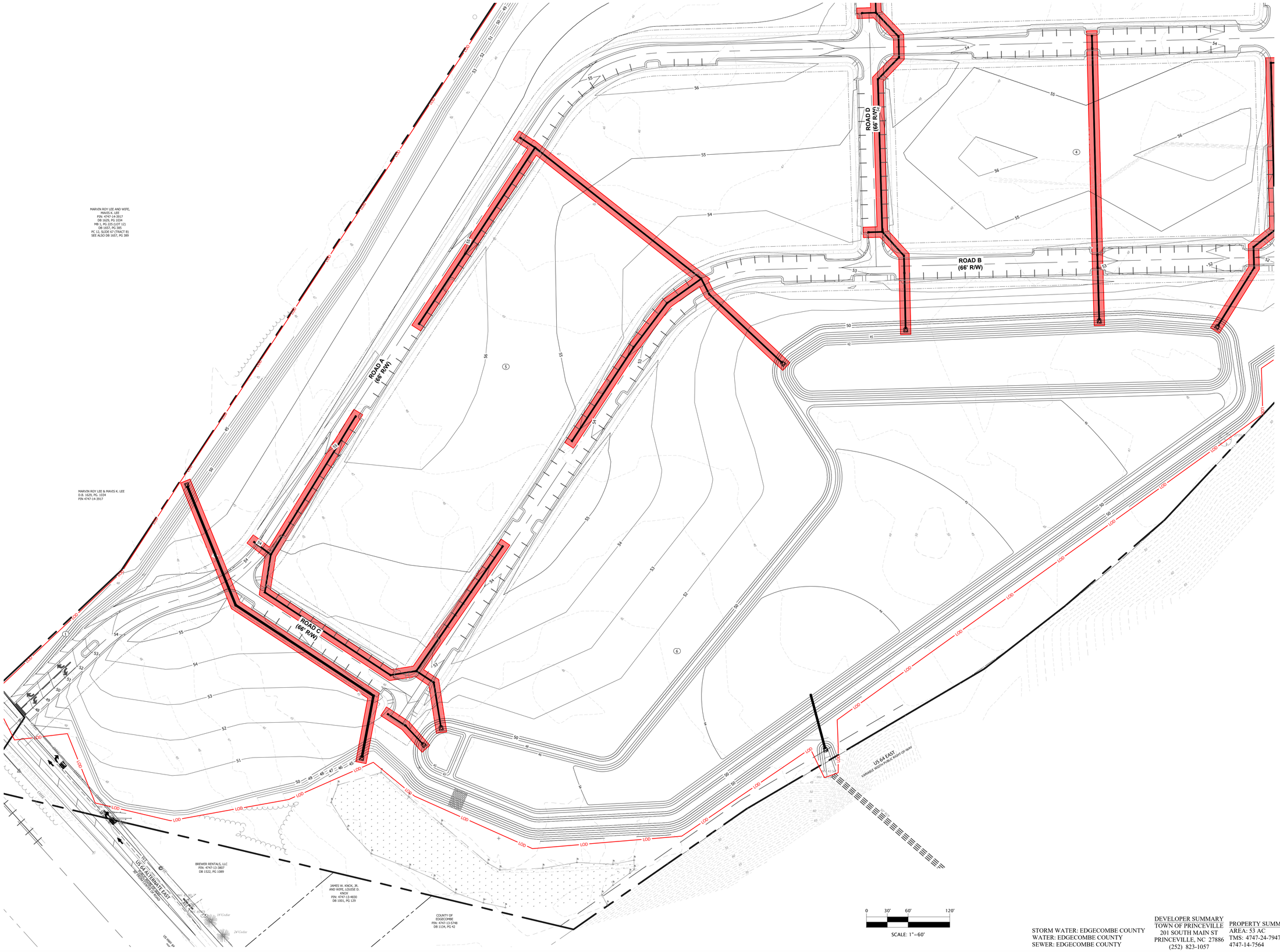

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE GRADING PLAN (1 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-3.01

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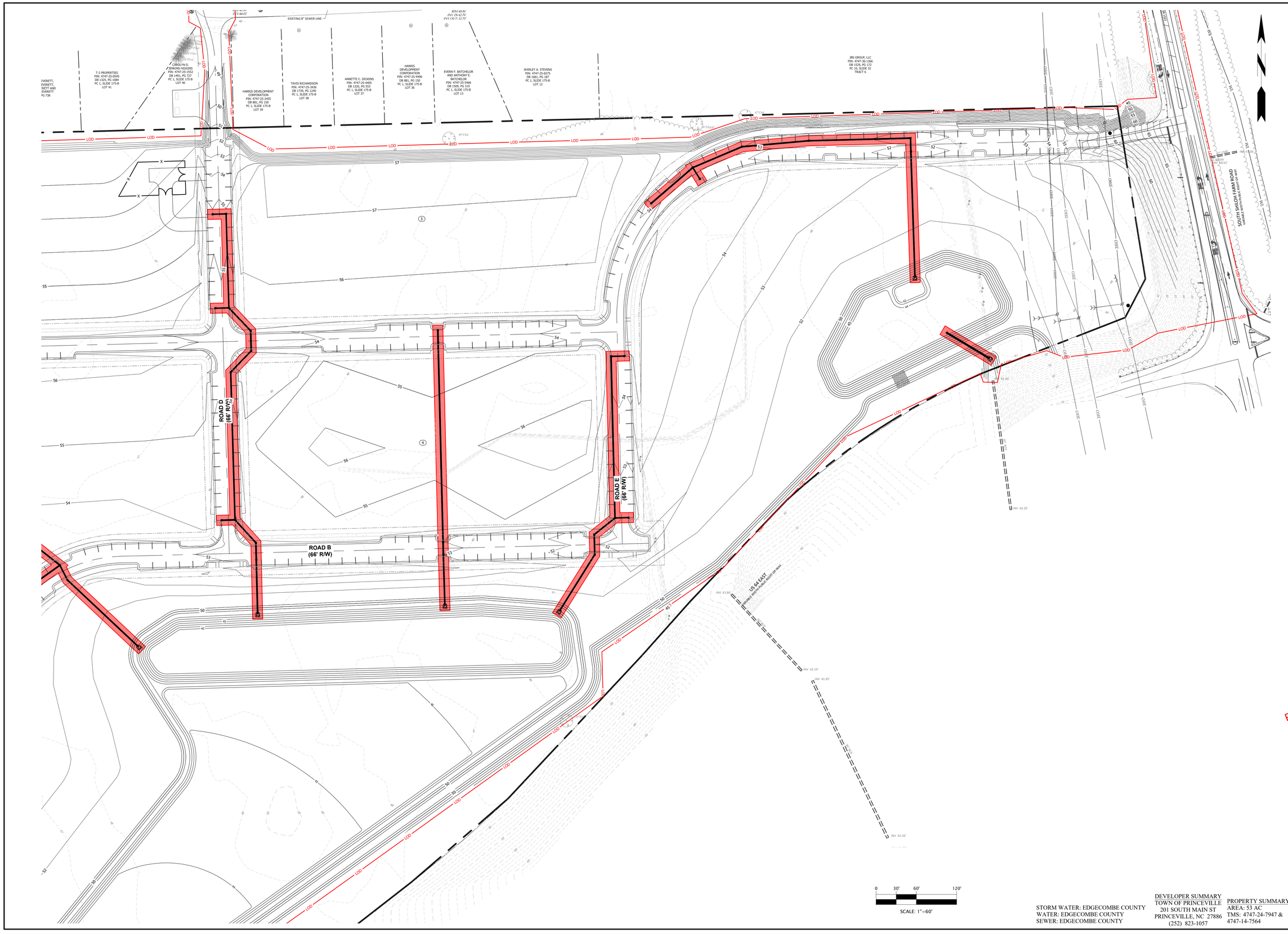

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE GRADING PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-3.02

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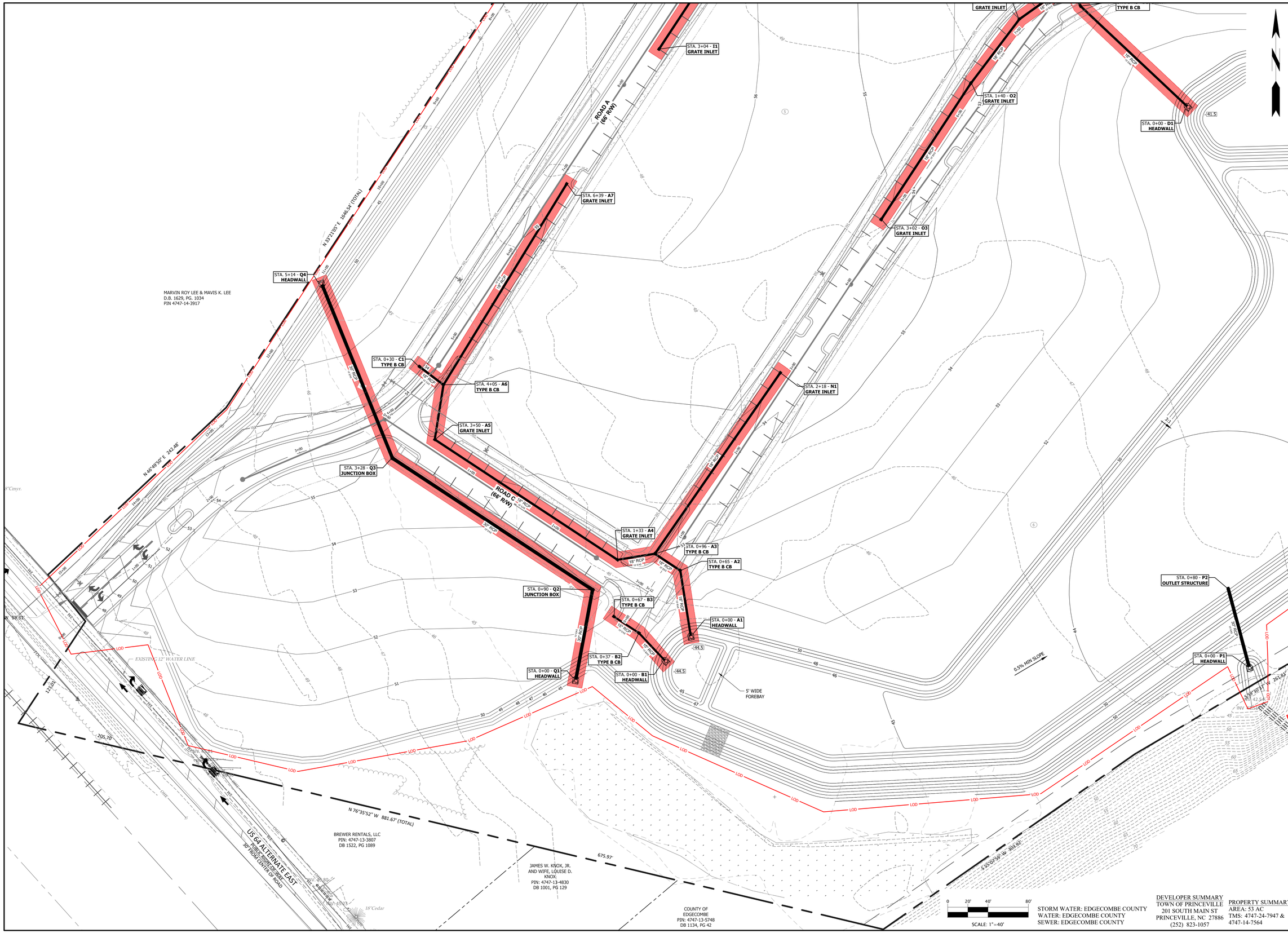

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

GRADING PLAN (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.03

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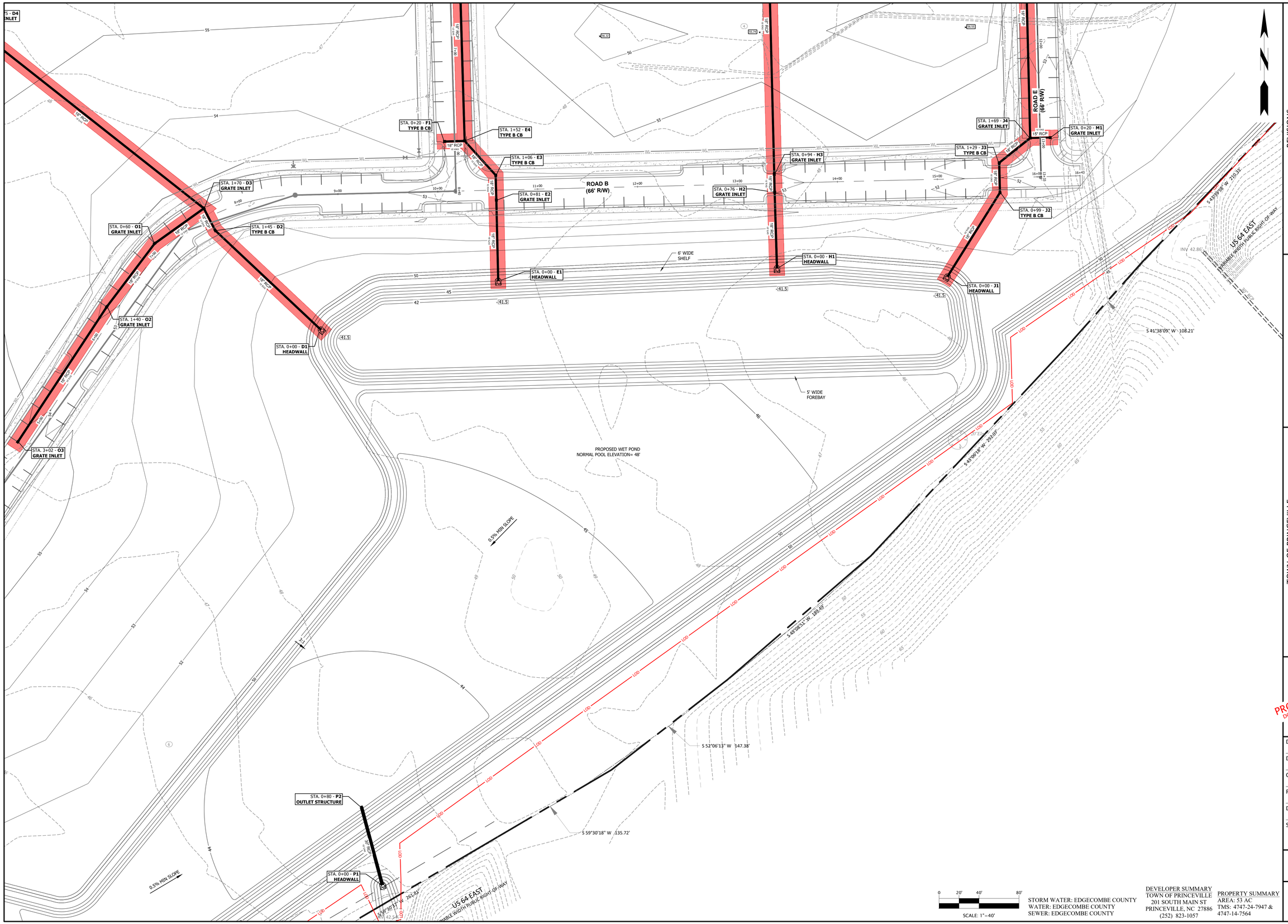

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GRADING PLAN (2 OF 4)

PROGRESS DRAWING
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DESIGNED BY:	JFS
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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.04

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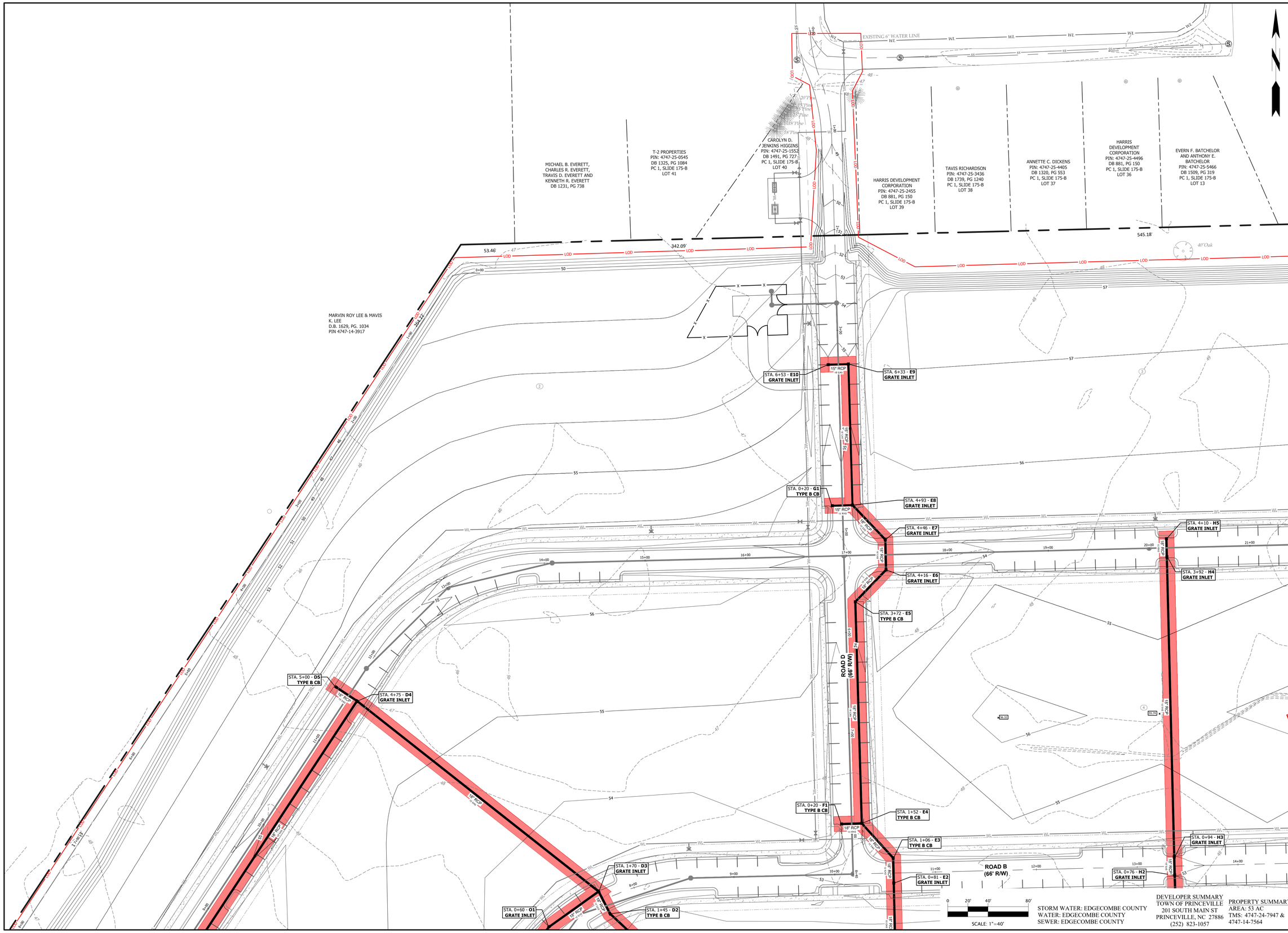

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

GRADING PLAN (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.05

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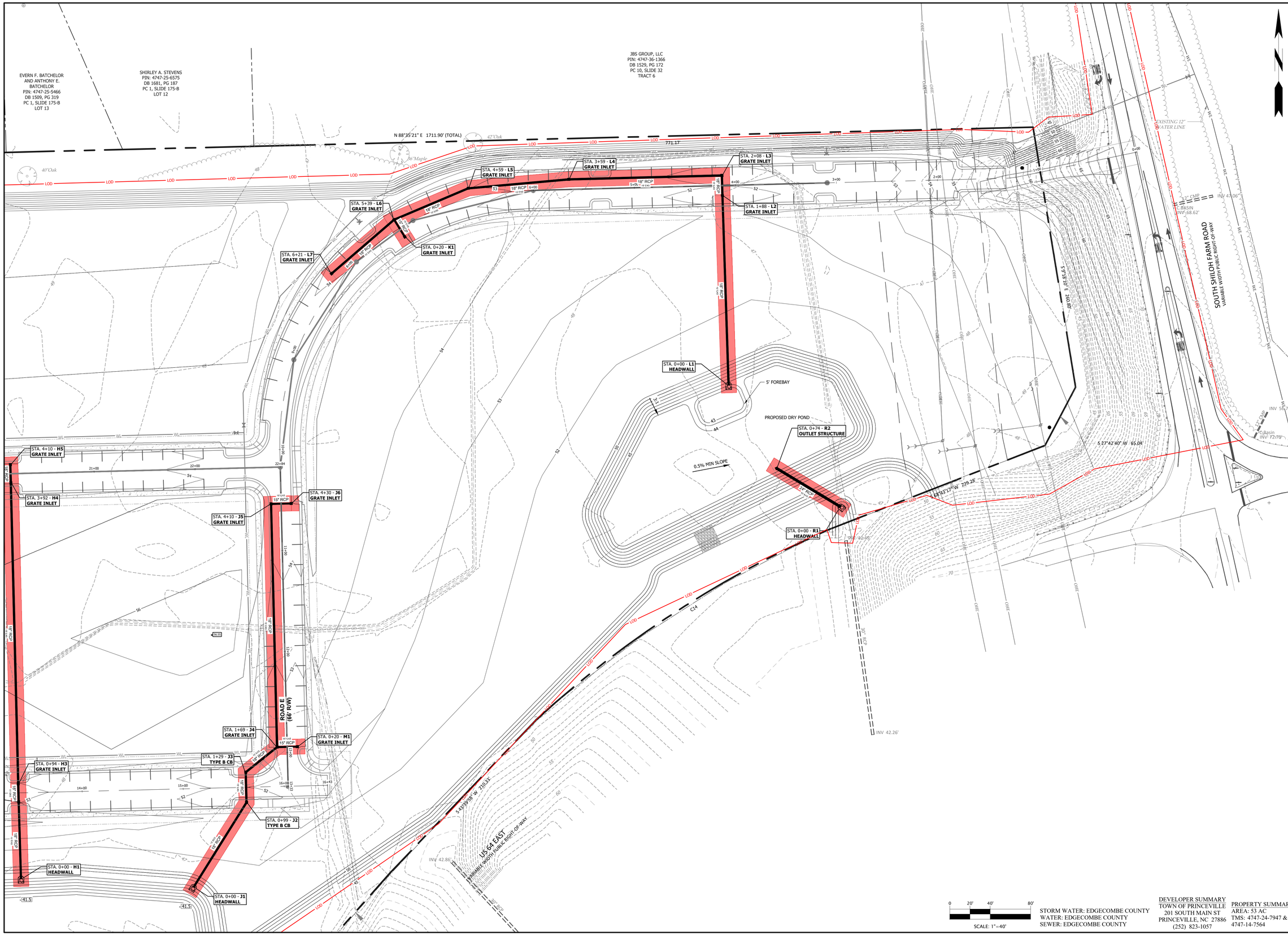

SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GRADING PLAN (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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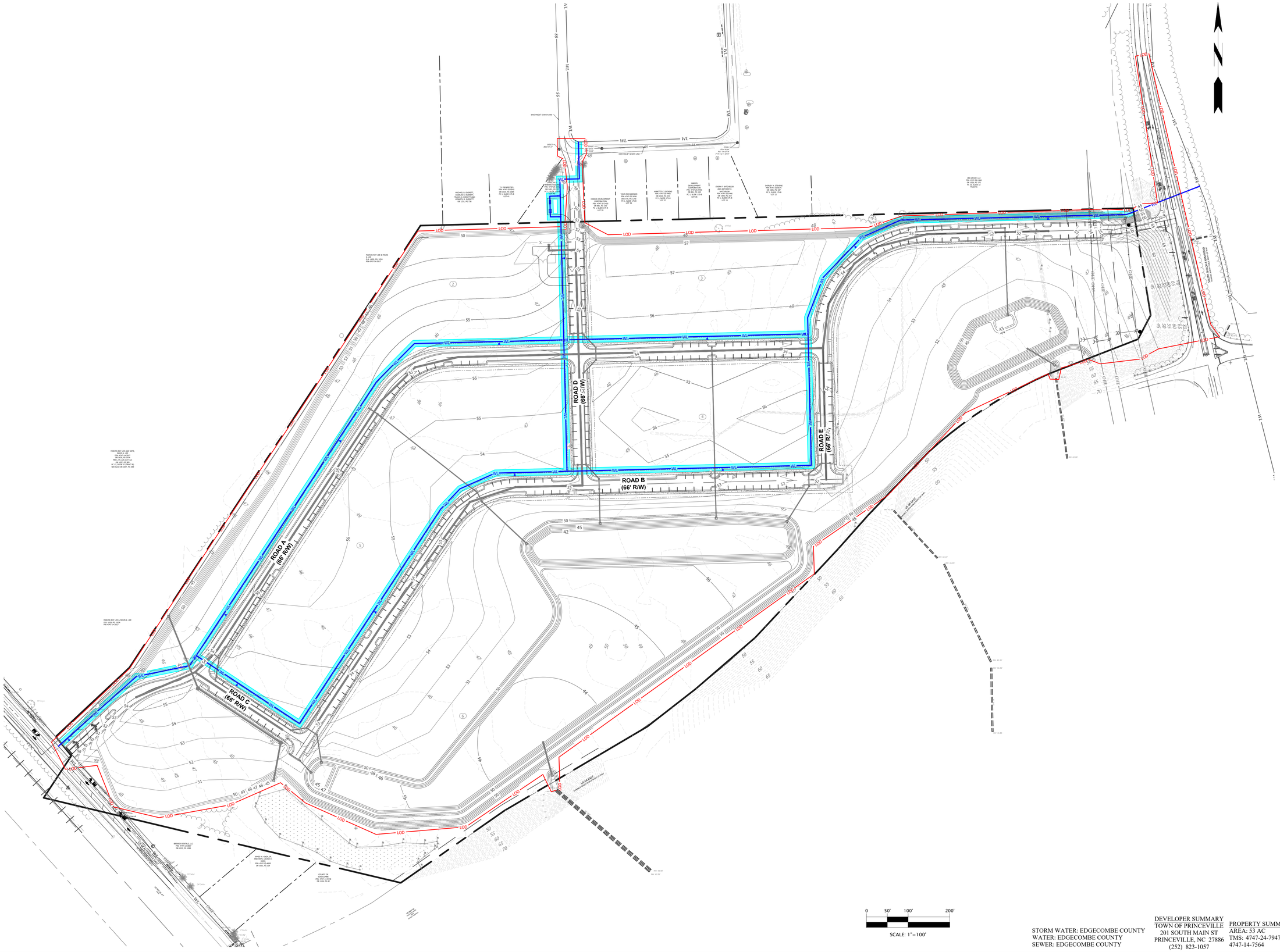

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

OVERALL WATER

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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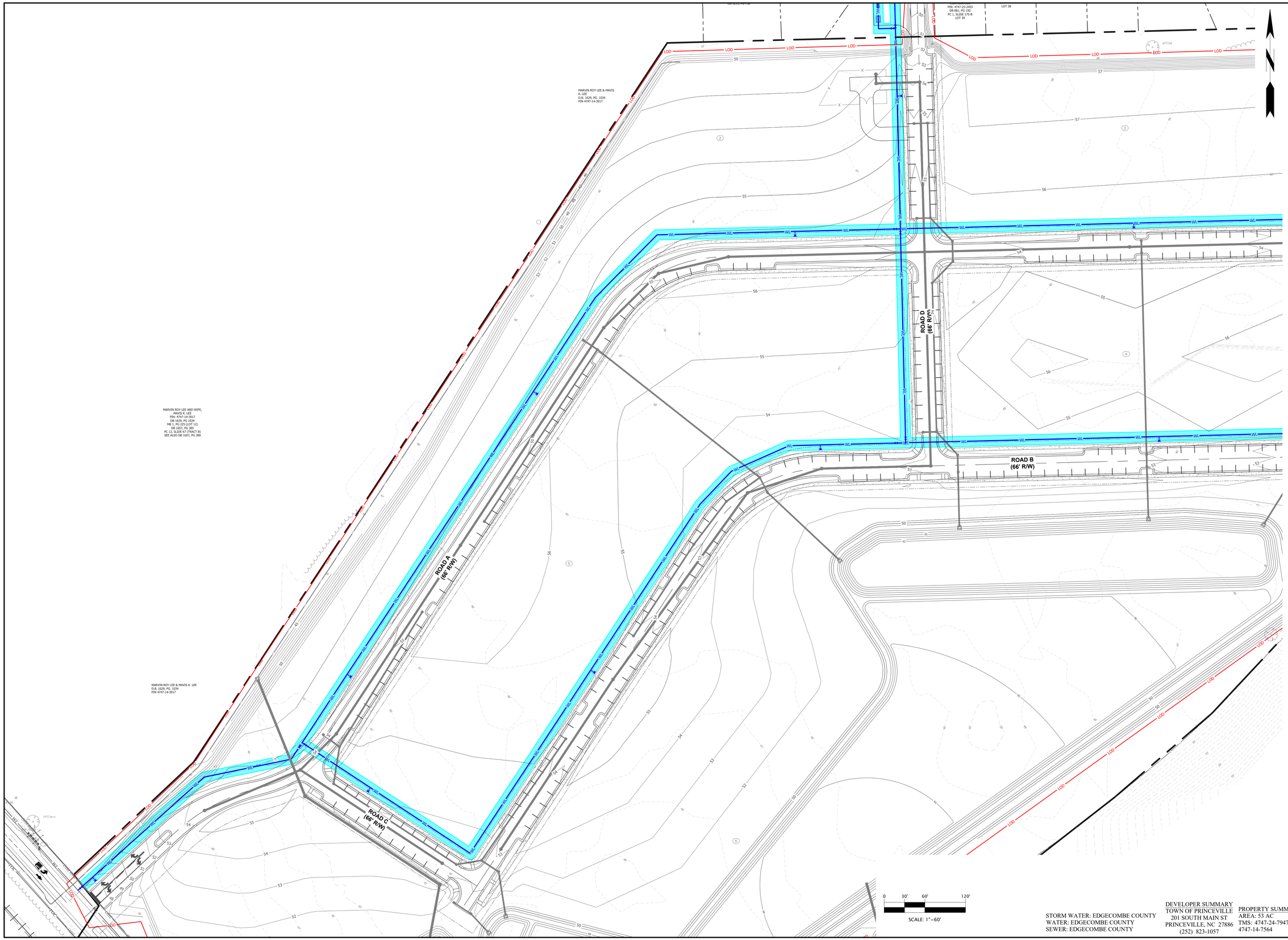

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE WATER PLAN (1 OF 2)

PROGRESS DRAWING
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DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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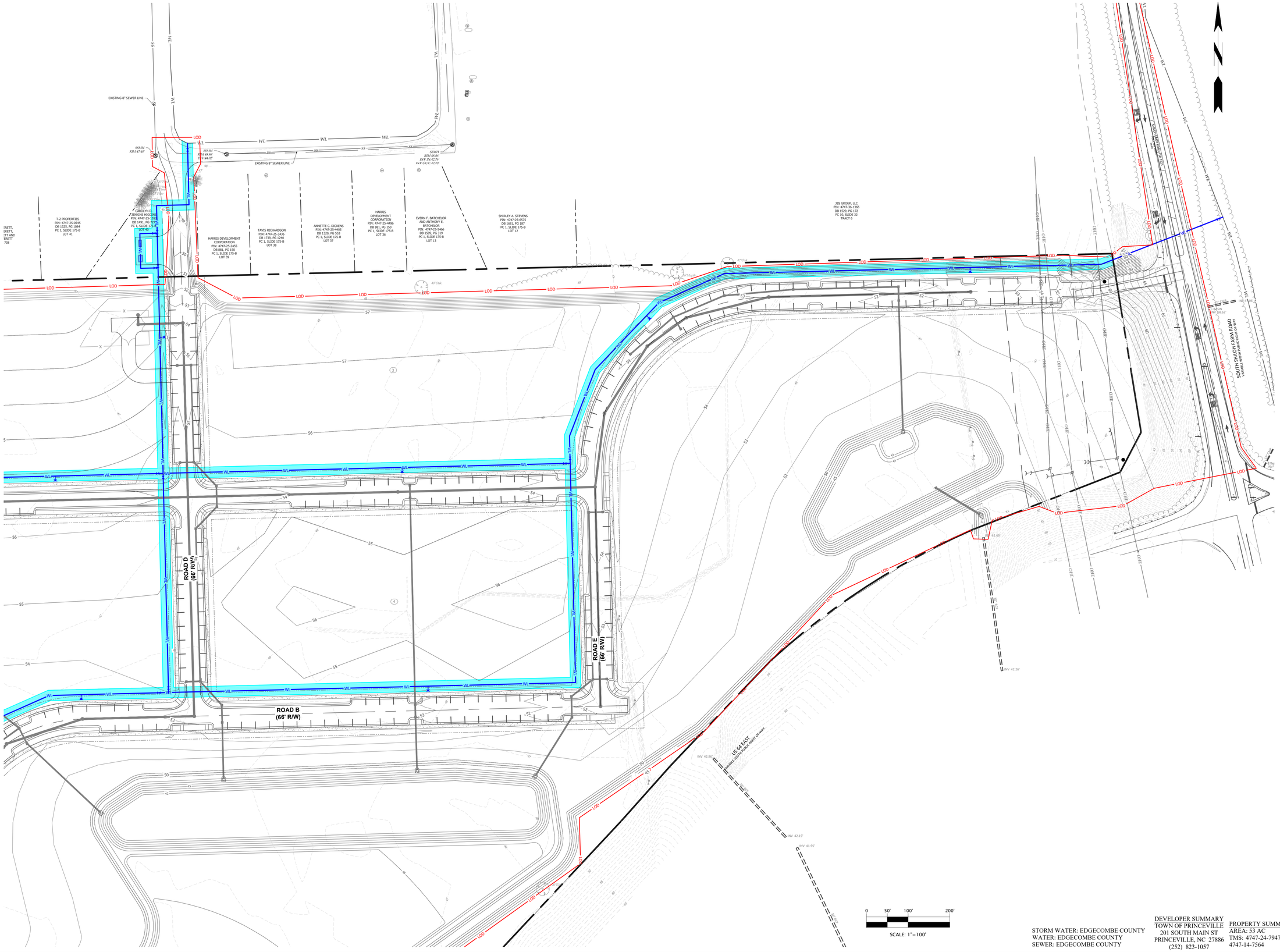

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE WATER PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-4.02

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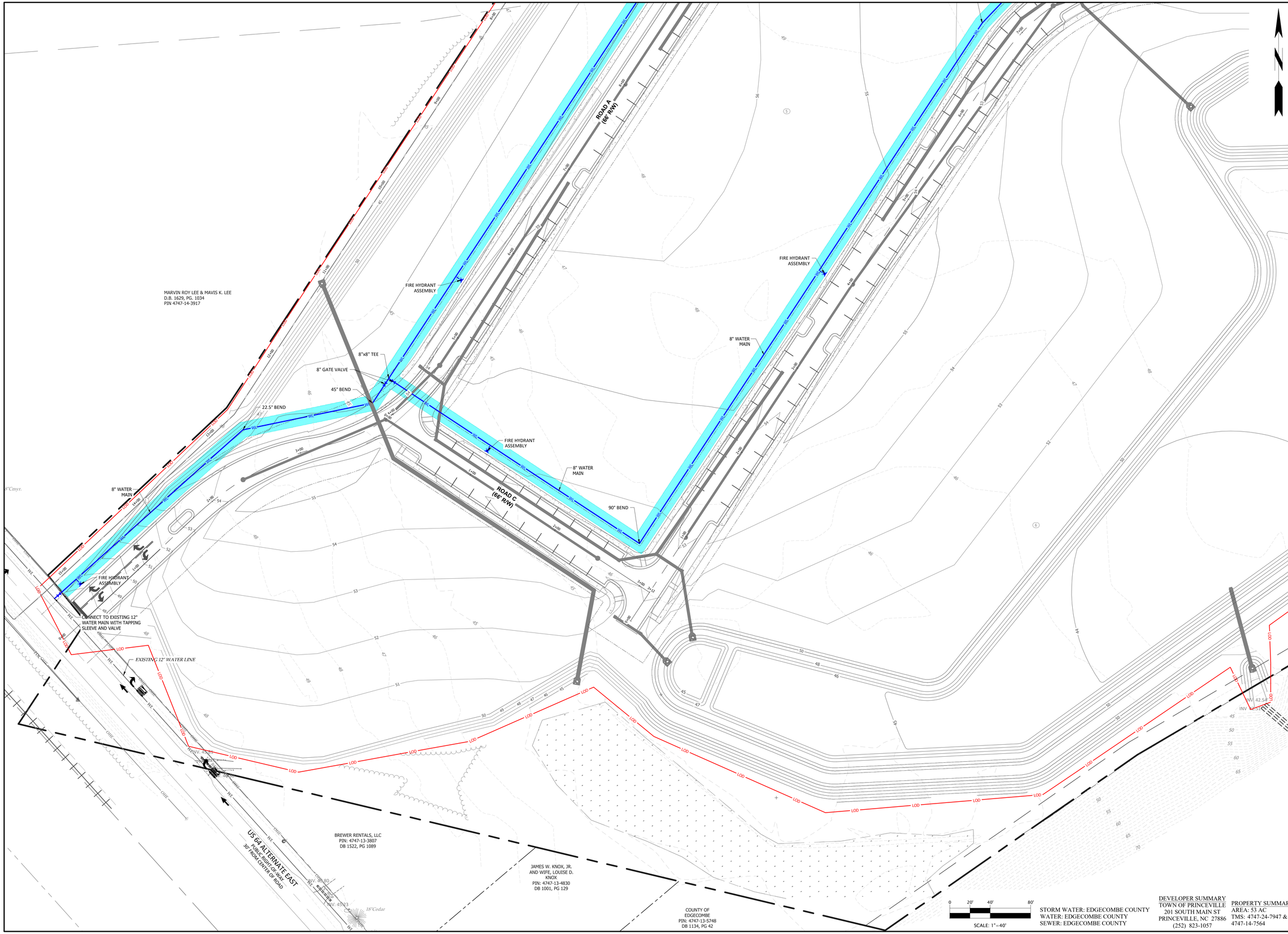

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

WATER PLAN (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-4.03

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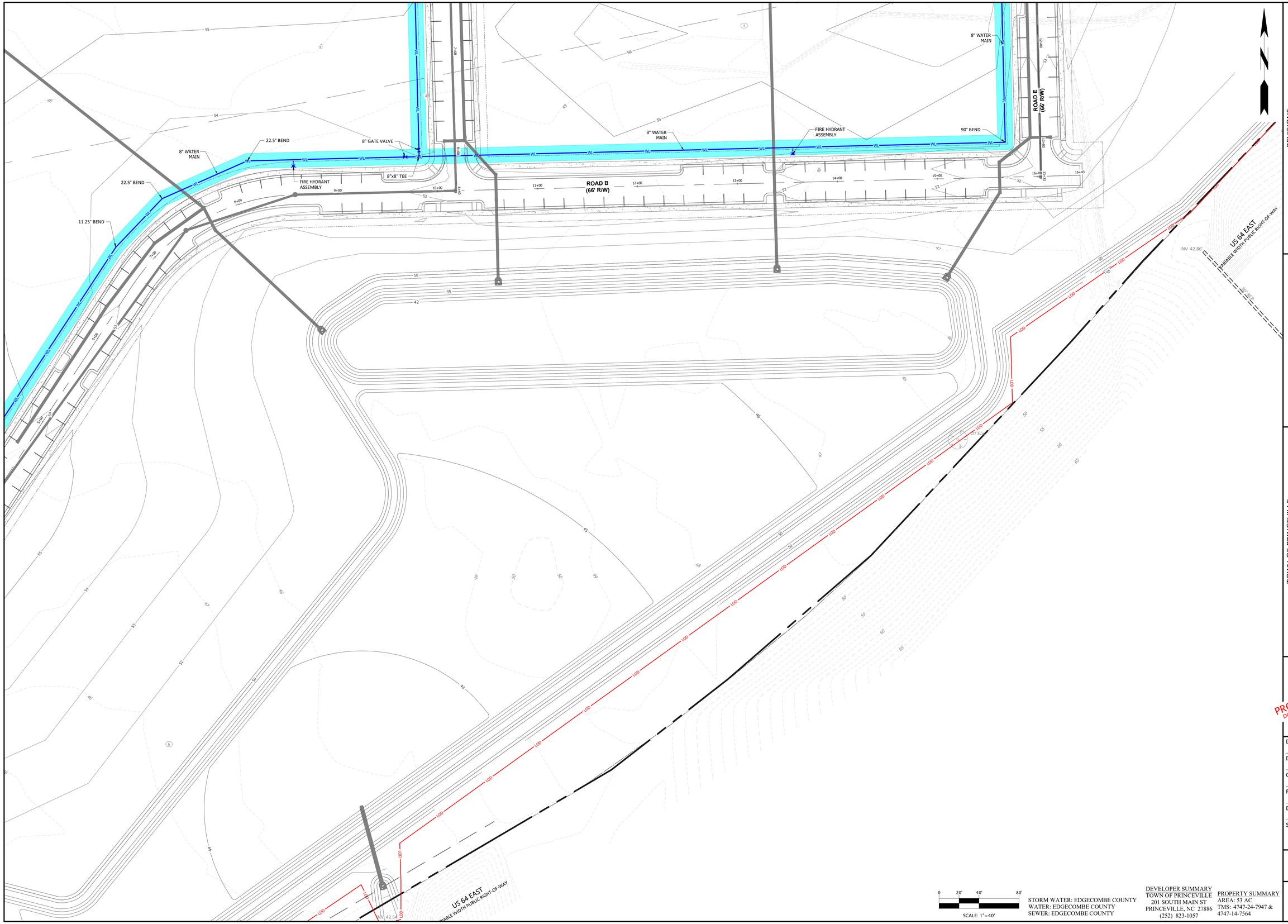

0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
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PRINCEVILLE, NC 27886
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-4.04

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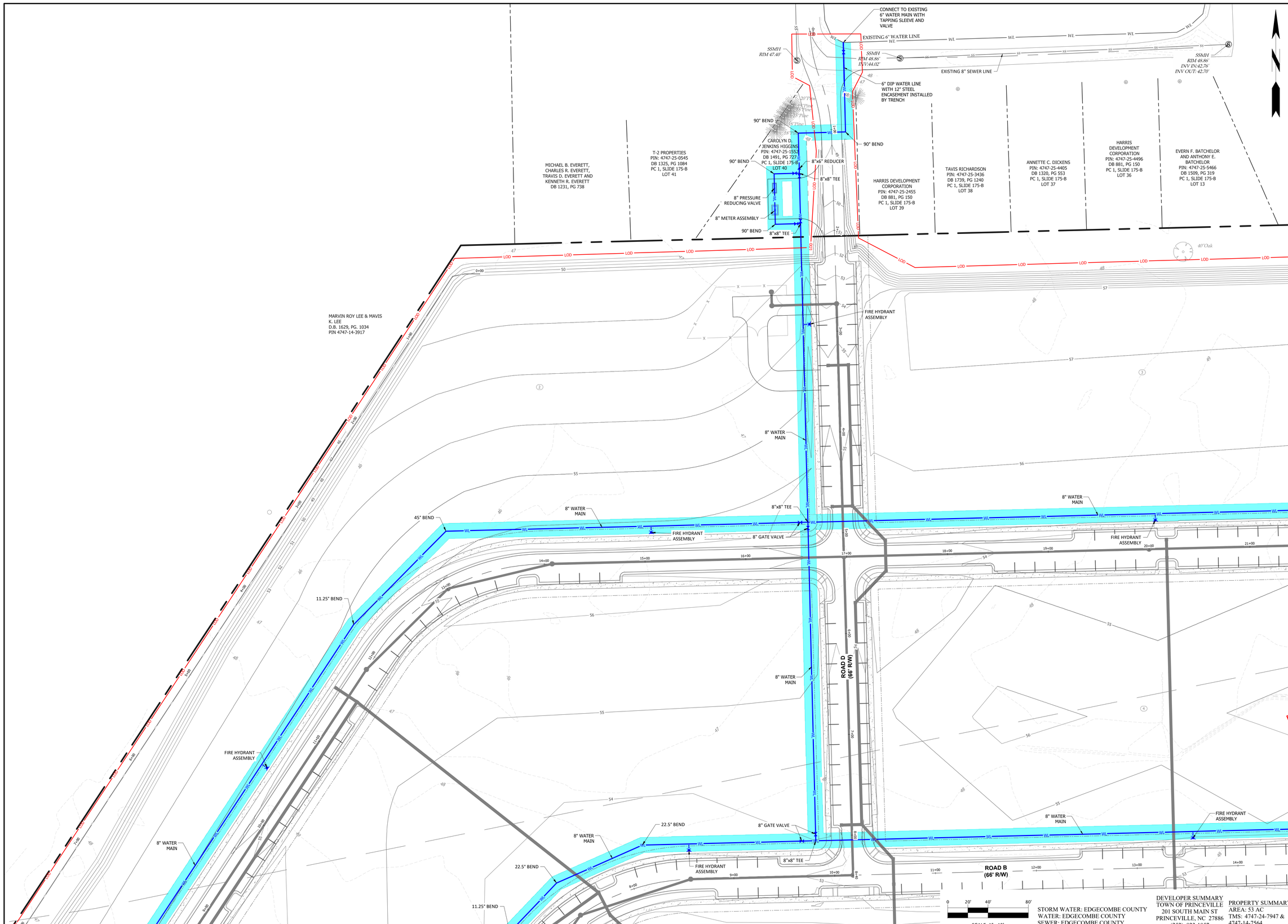

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-4.05

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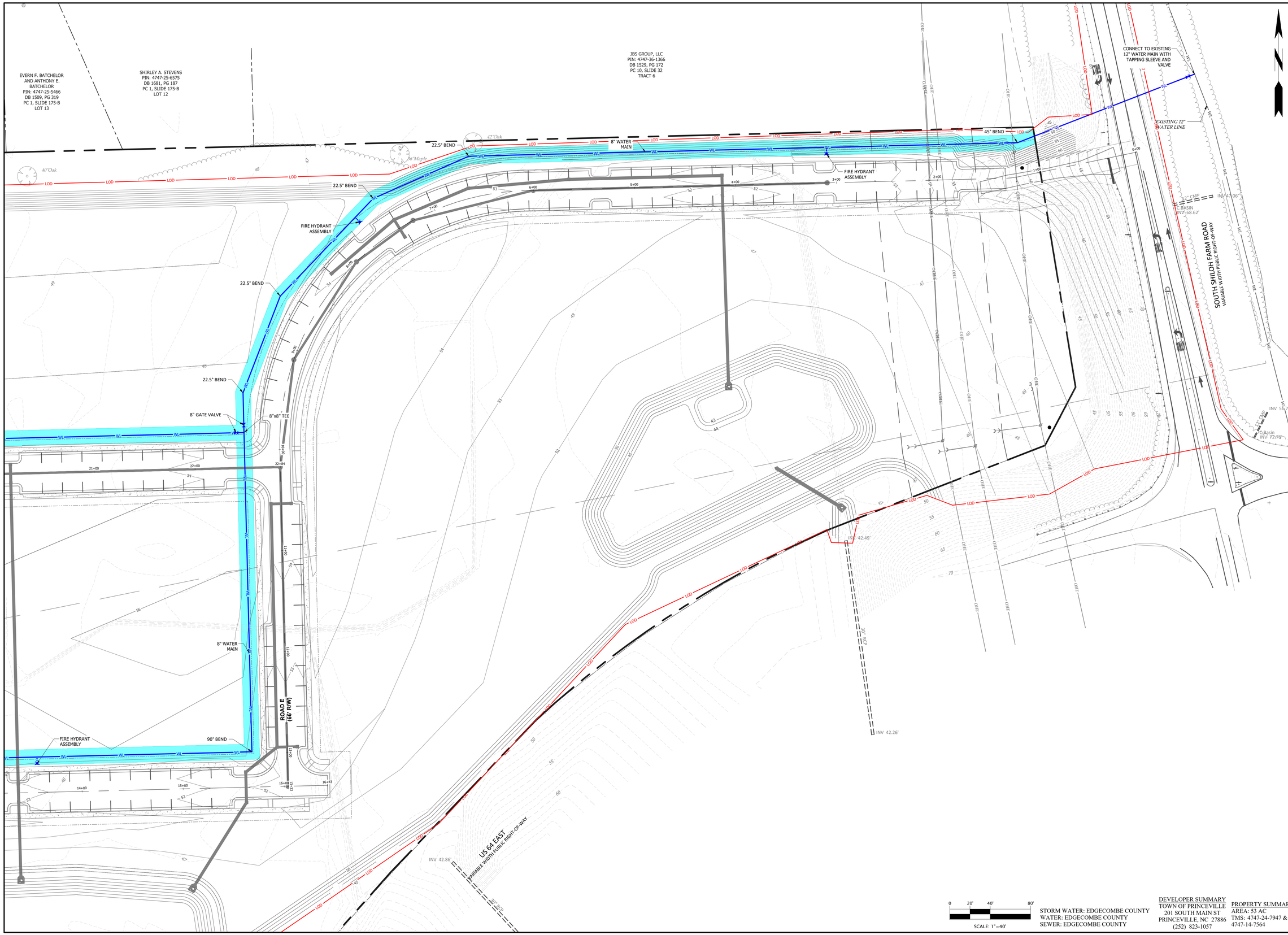

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.06

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
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License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL WASTEWATER

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-5.00

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE WASTEWATER PLAN (1 OF 2)

PROGRESS DRAWING
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DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-5.01

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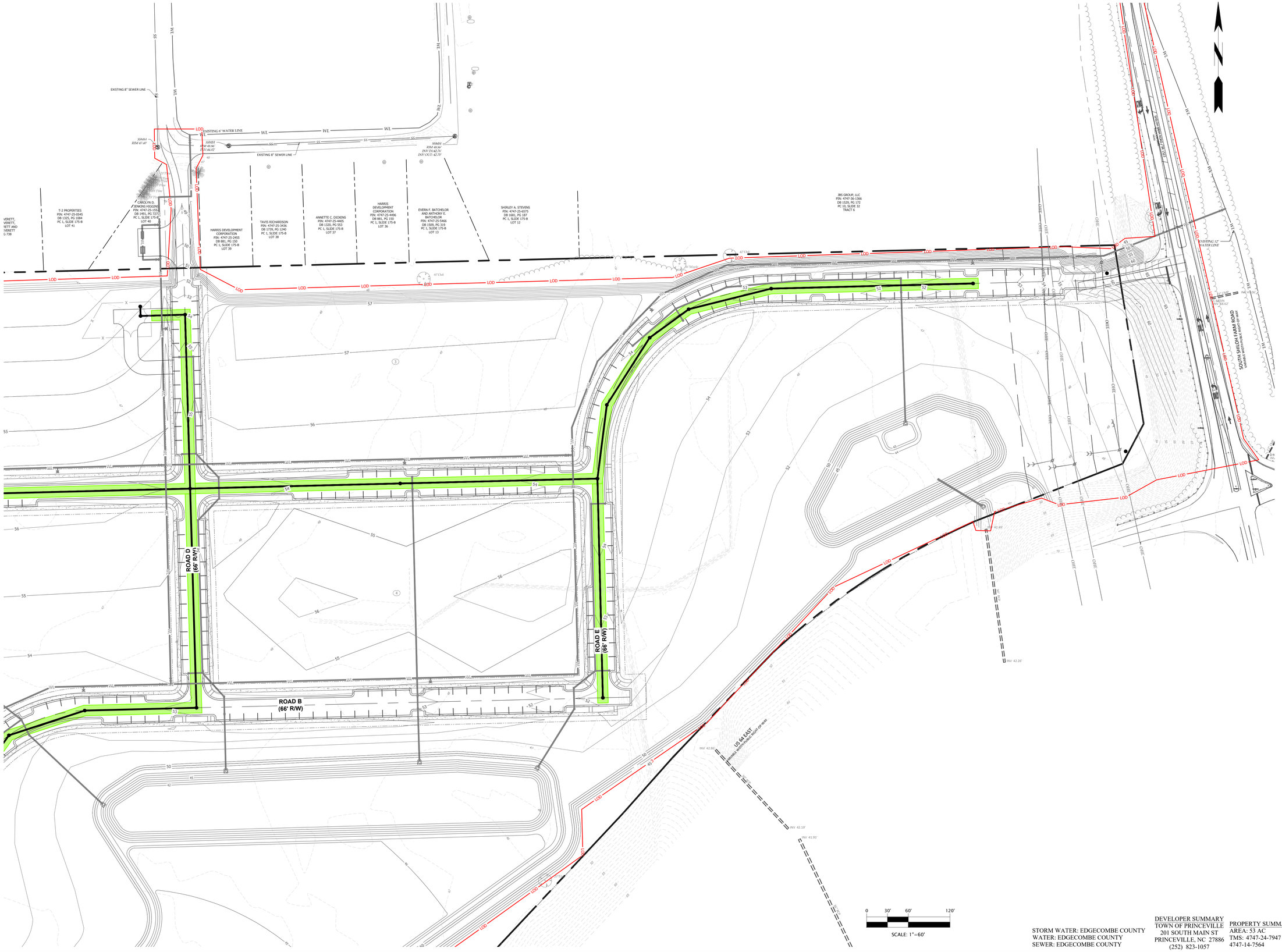

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE WASTEWATER PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-5.02

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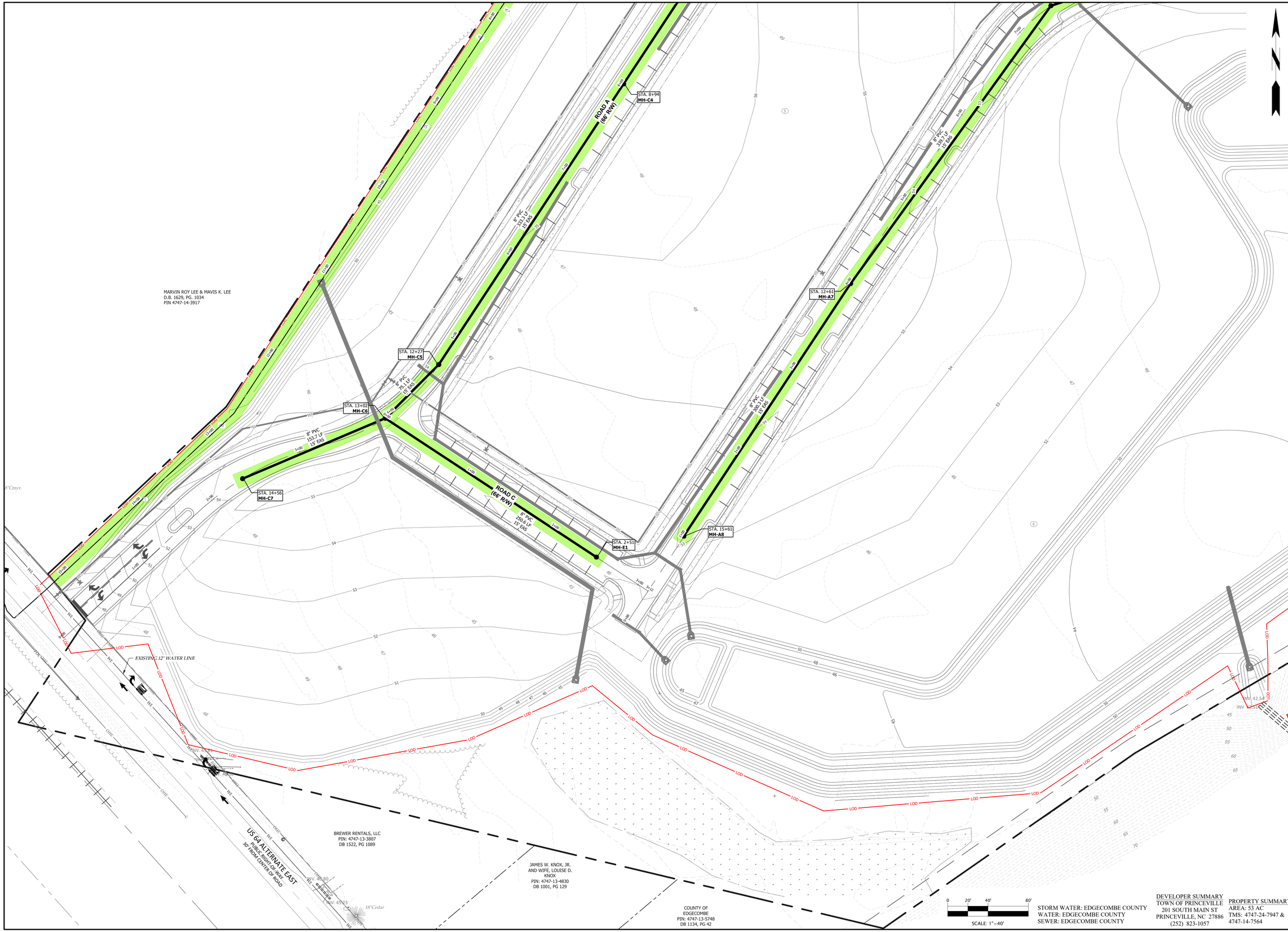

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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NORTH CAROLINA
EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-5.03

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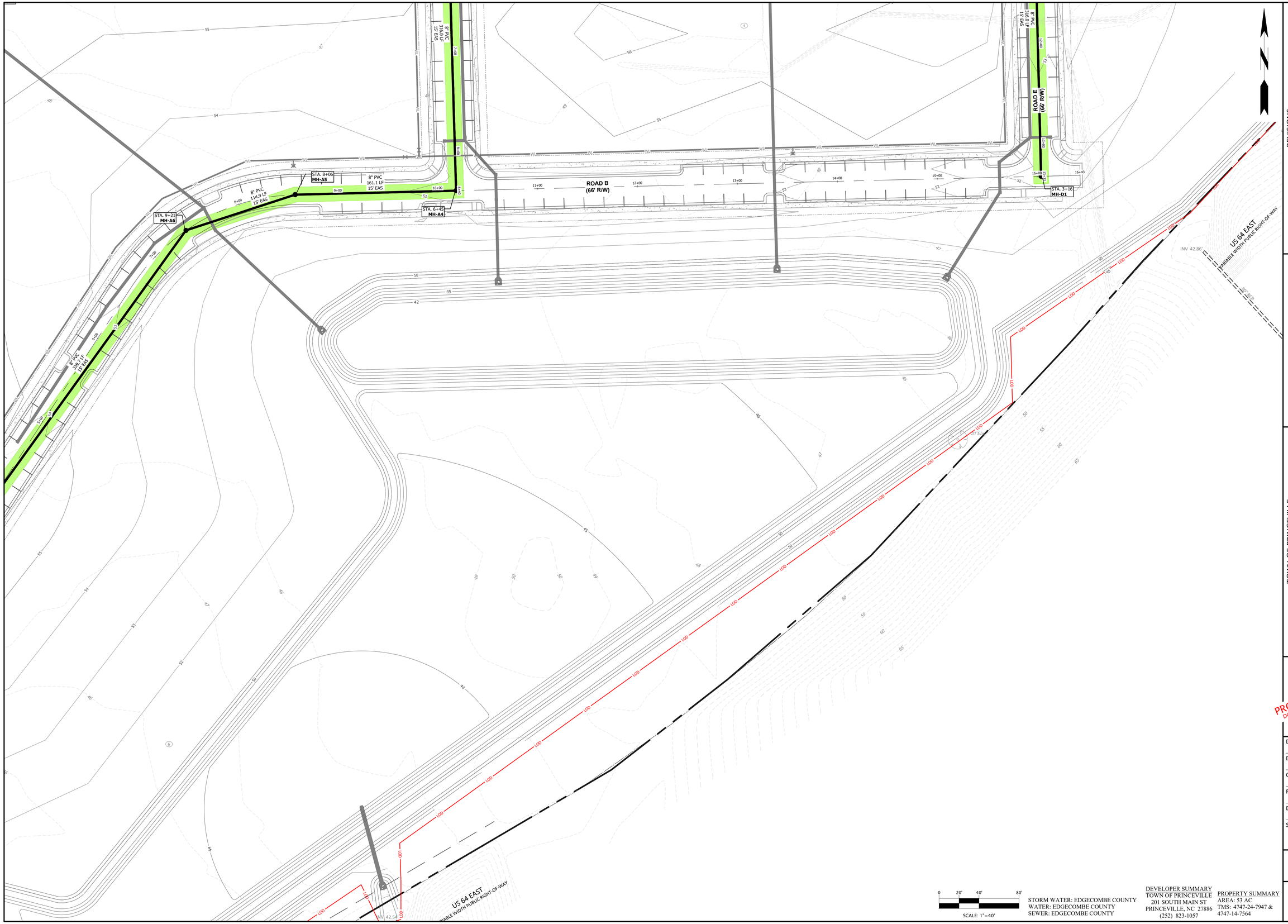

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0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

WASTEWATER PLAN (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-5.04

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (3 OF 4)

PROGRESS DRAWING
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DATE:	JULY 13, 2023
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0 1/2 1
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C-5.05

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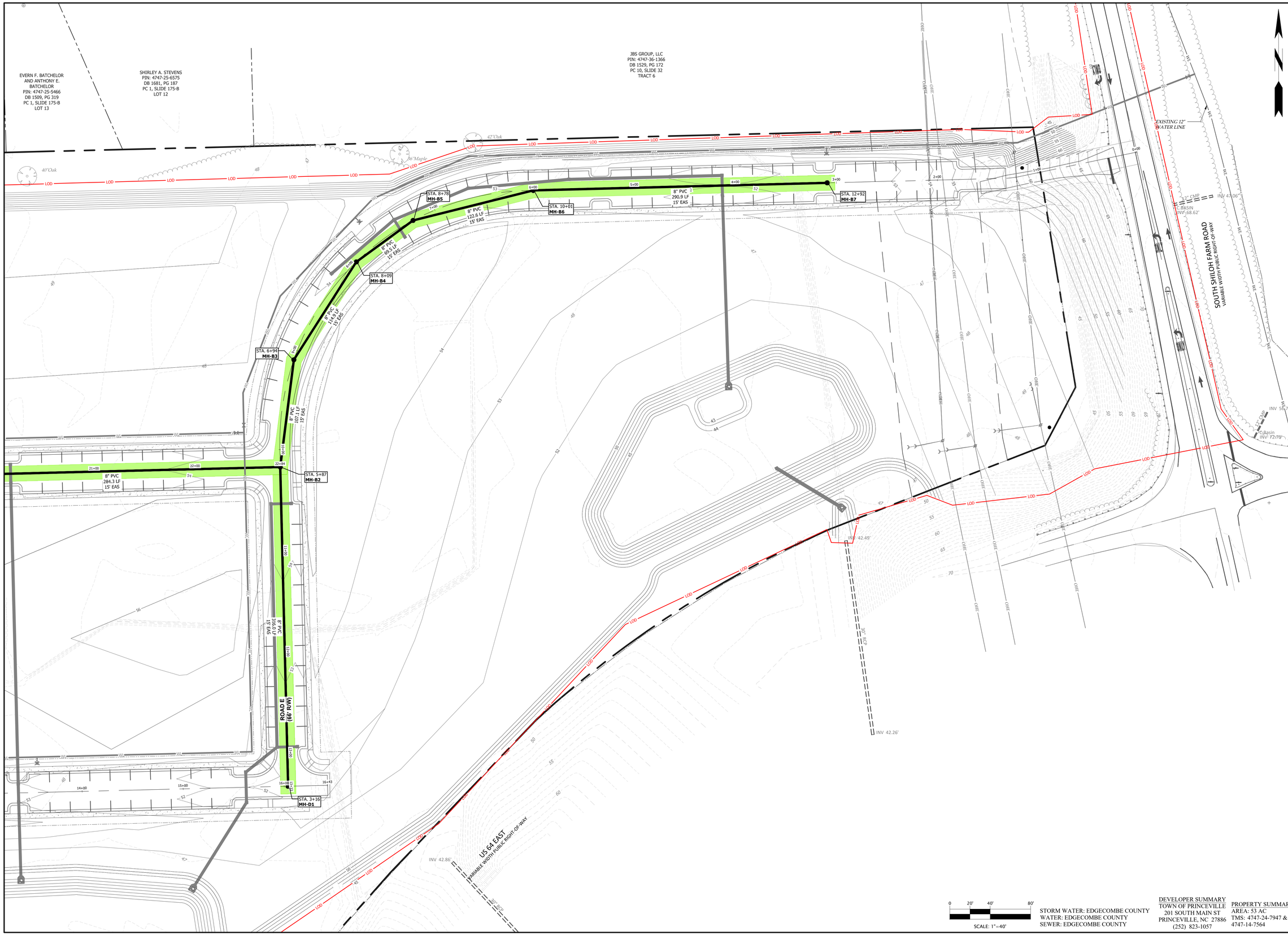

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (4 OF 4)

PROGRESS DRAWING
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CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-5.06

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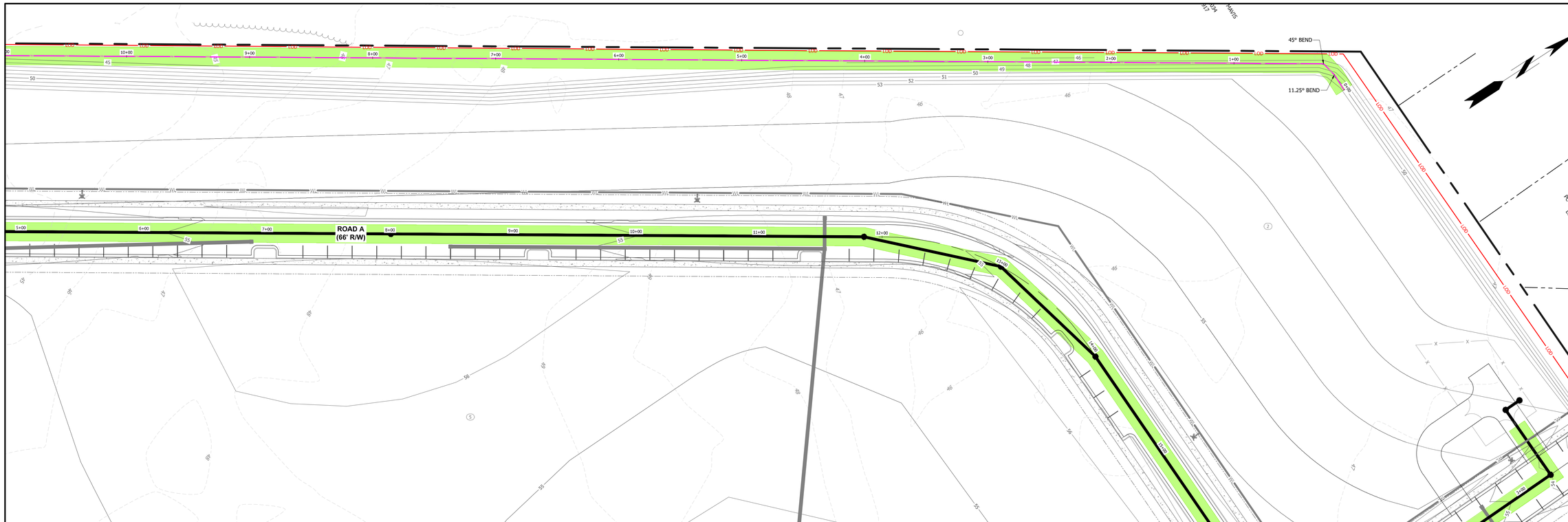

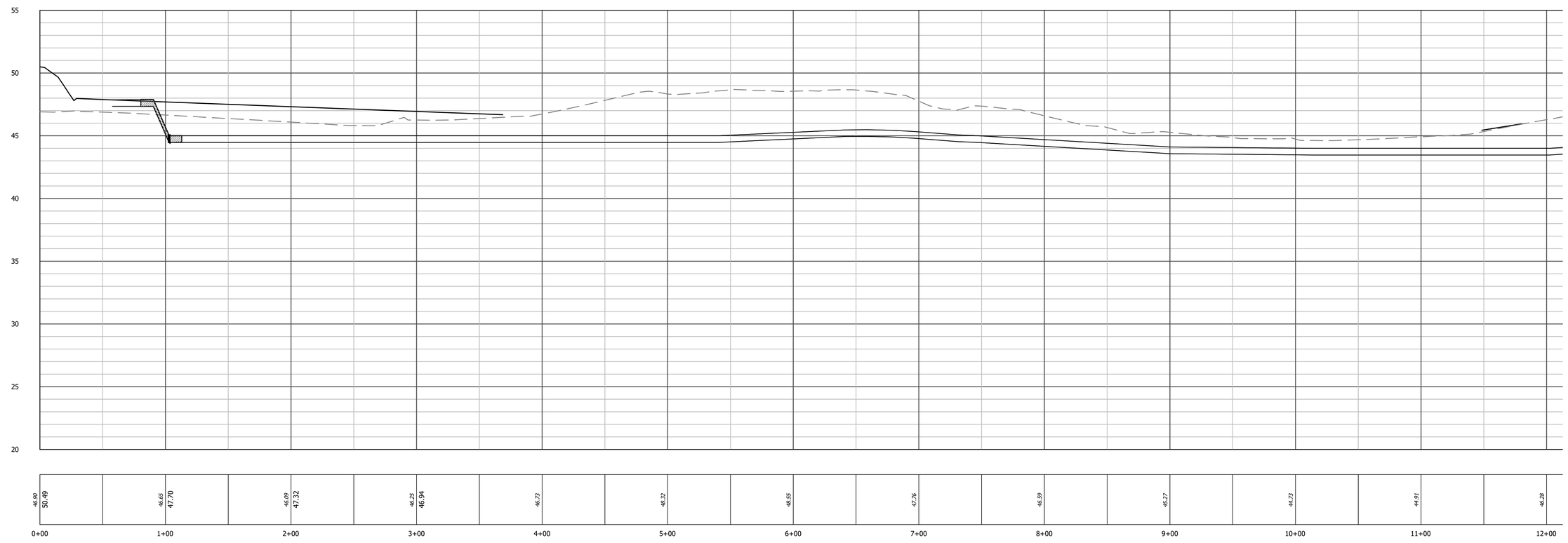

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (1 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
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CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
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C-6.00

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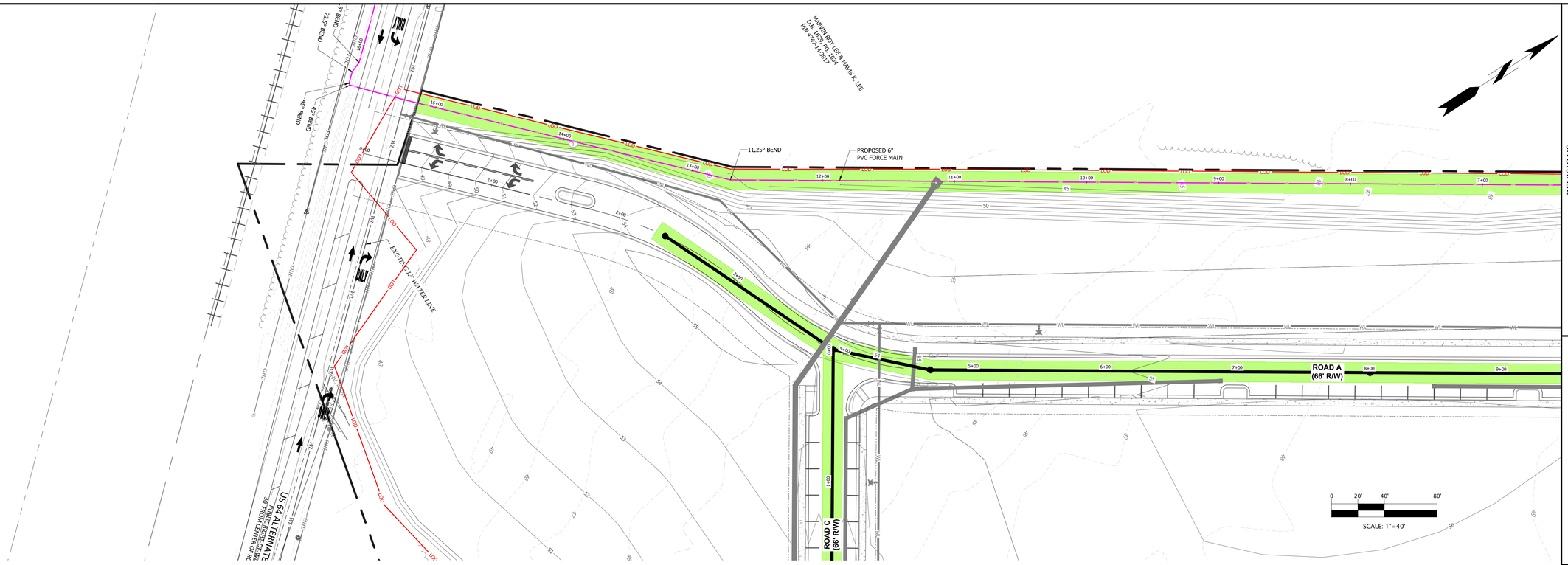

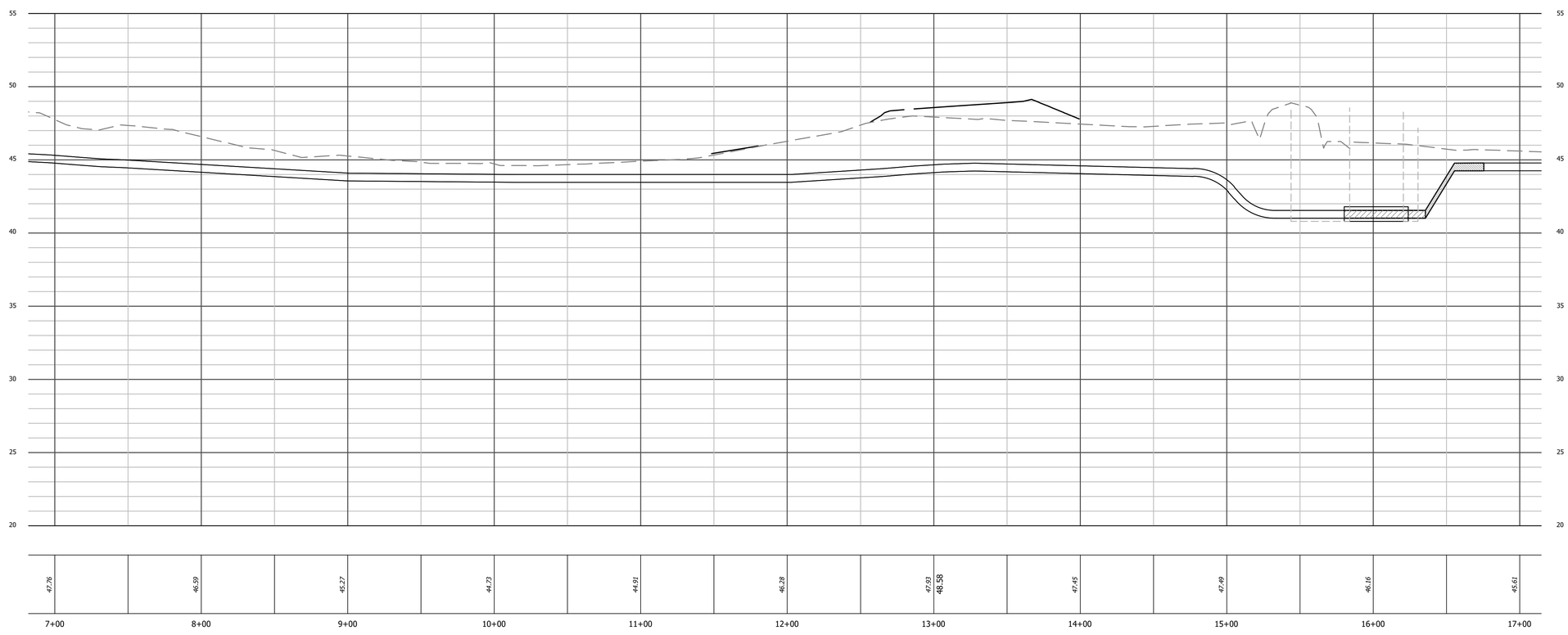

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

OFFSITE FORCE MAIN PLAN & PROFILE (2 OF 10)

PROGRESS DRAWING
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DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-6.01

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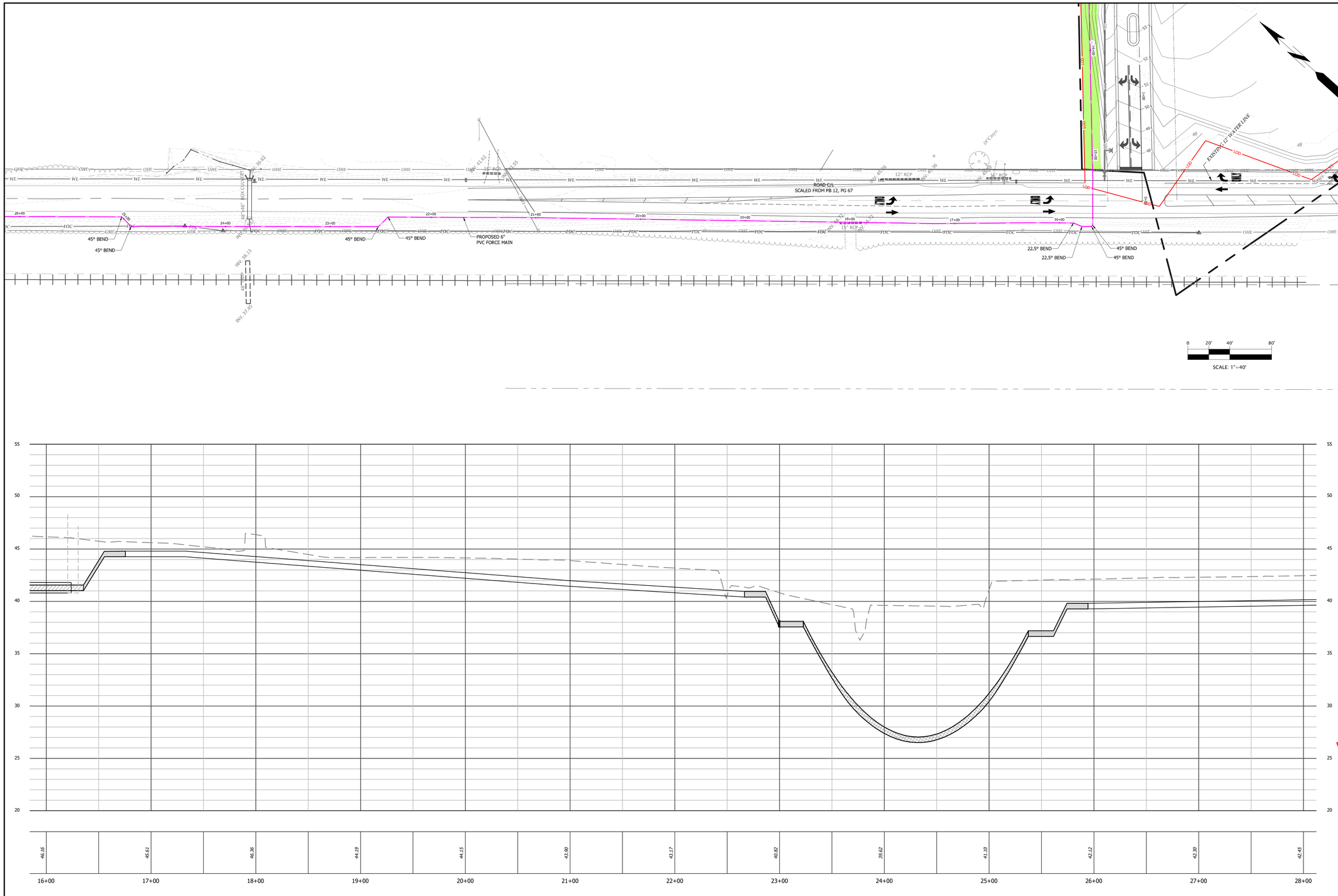

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (3 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
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CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
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C-6.02

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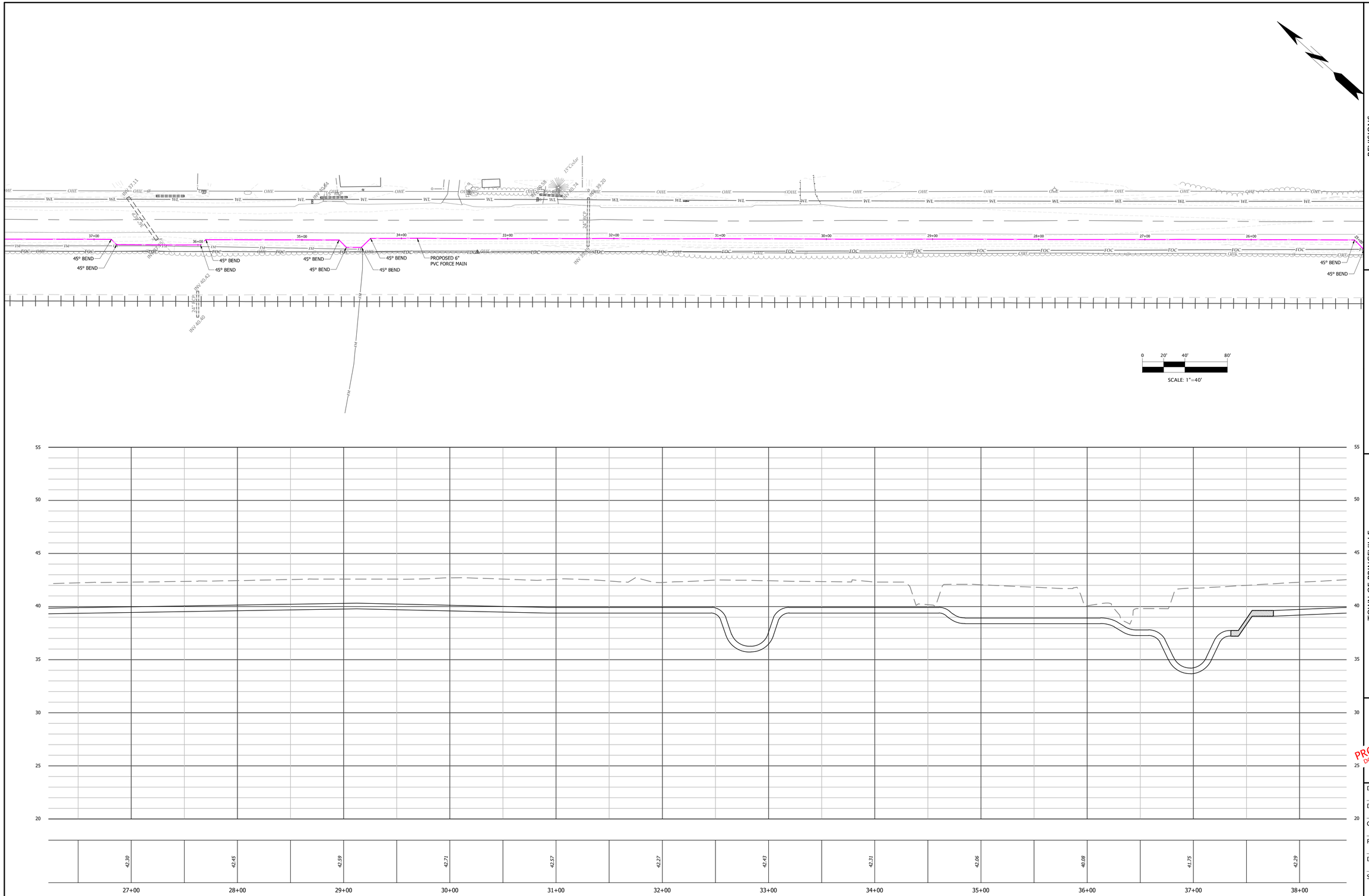

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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PROPERTY SUMMARY
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (4 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.03

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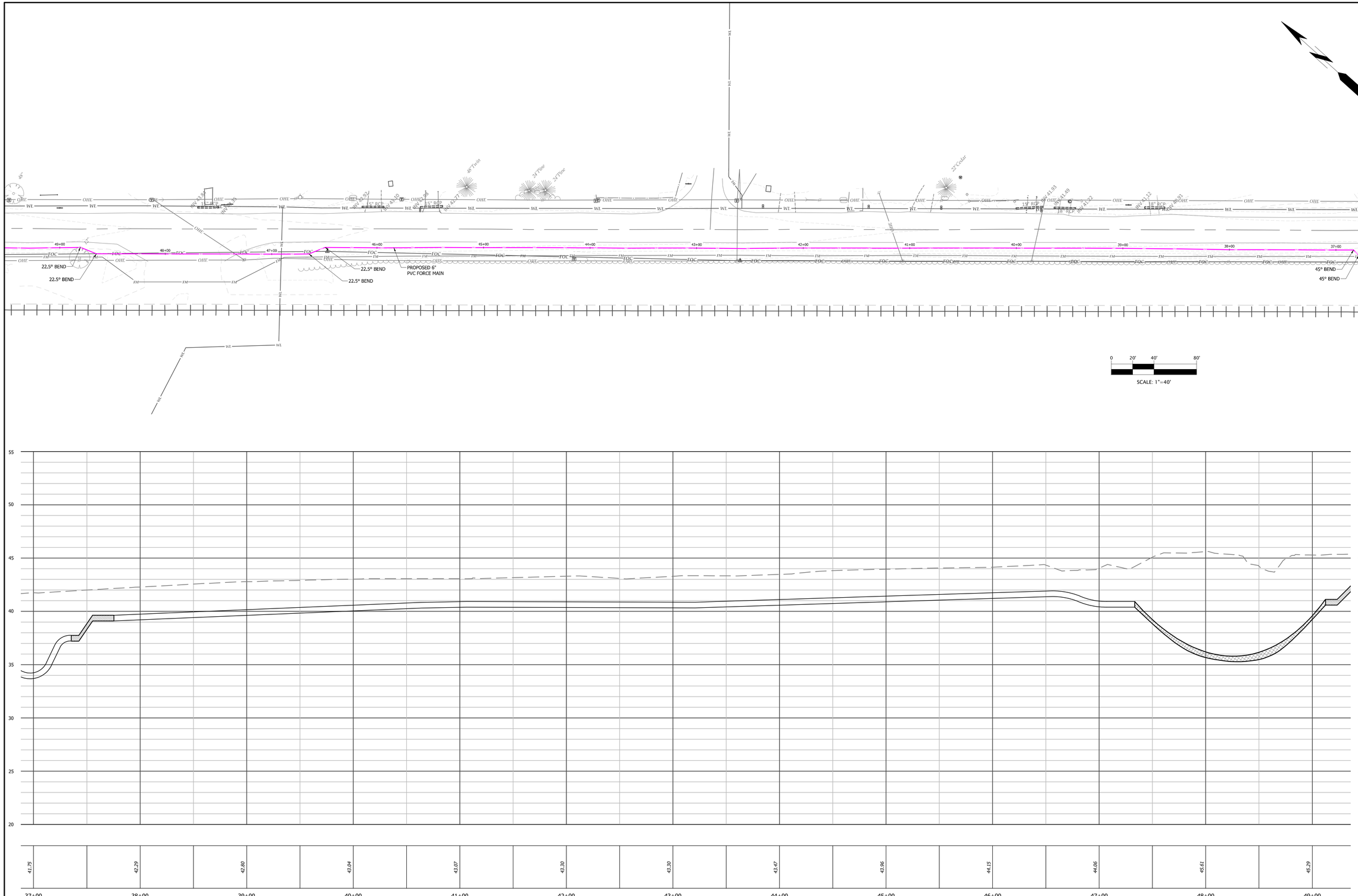

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (5 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.04

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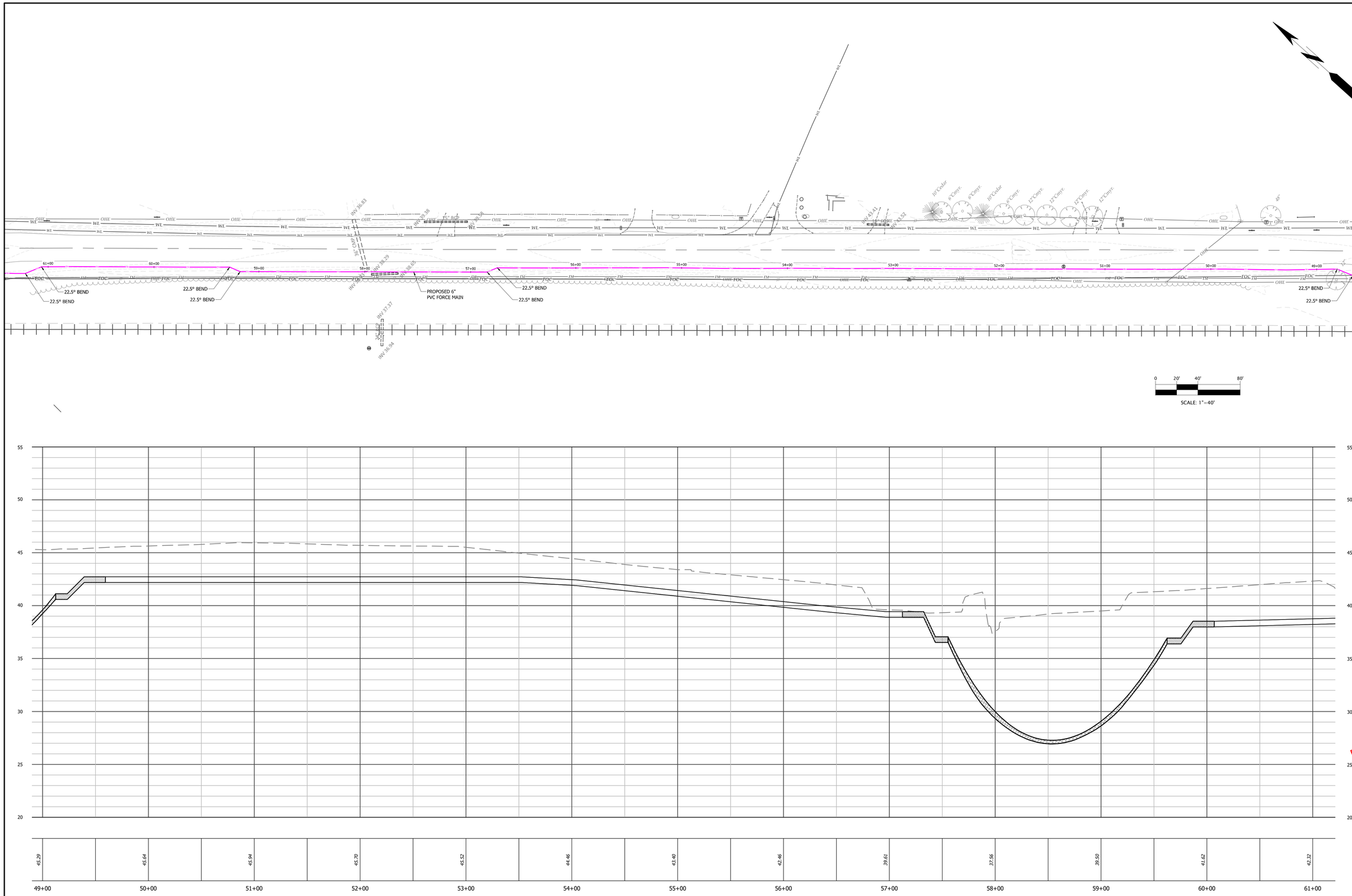

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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PROPERTY SUMMARY
AREA: 53 AC
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (6 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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C-6.05

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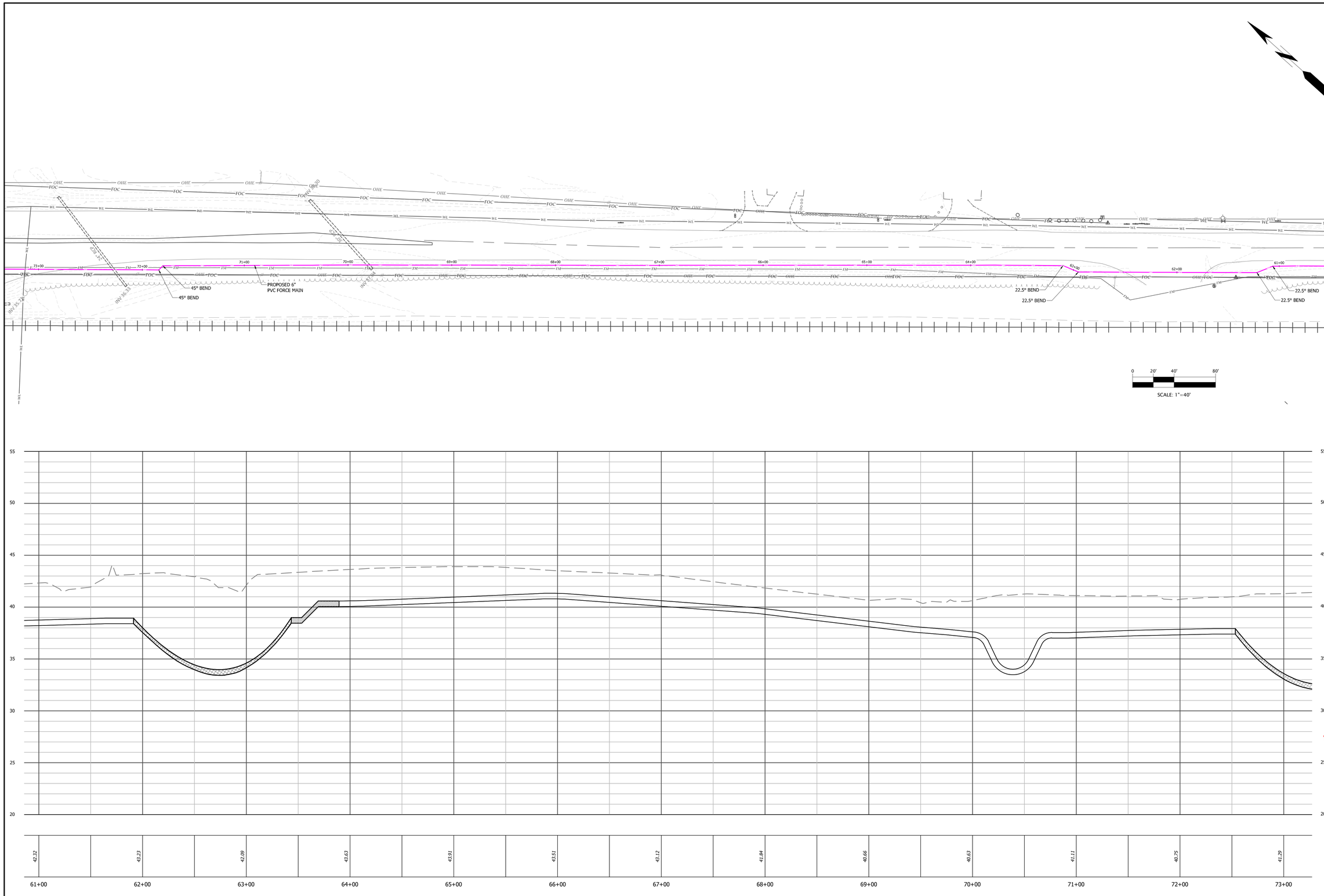

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
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PRINCEVILLE, NC 27886
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PROPERTY SUMMARY
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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (7 OF 10)

PROGRESS DRAWING
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DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-6.06

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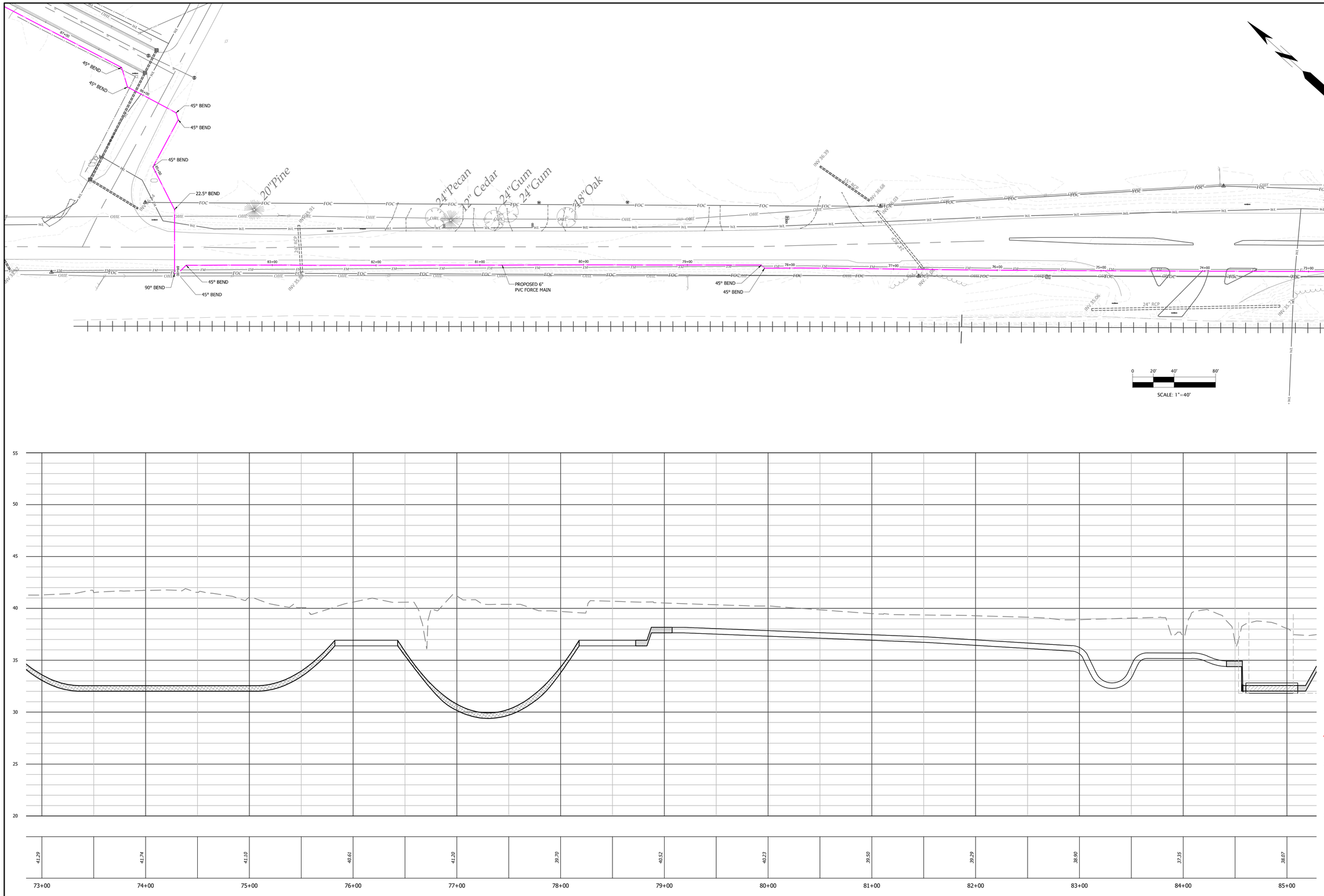

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (8 OF 10)

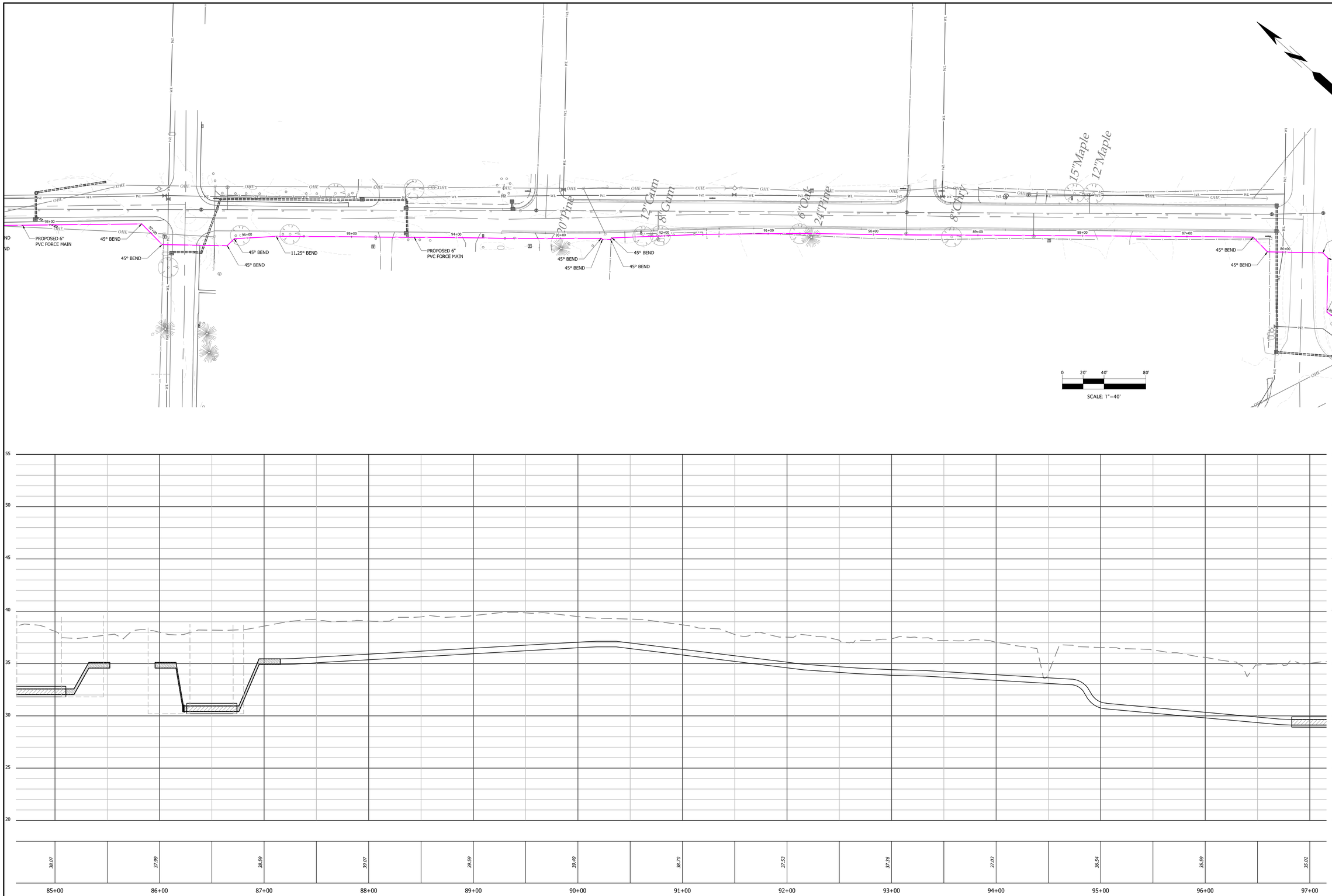
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.07

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-OFFSITE WWTR.dwg CTHATCHER 7/13/2023 4:22 PM



FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (9 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.08

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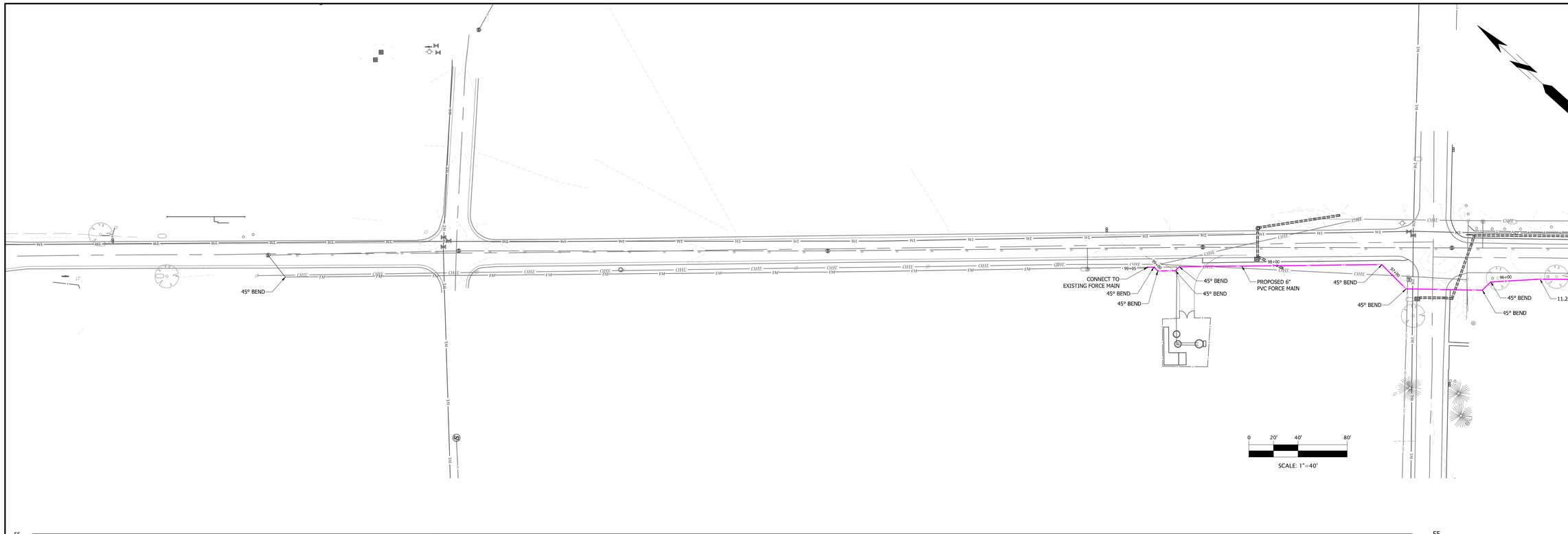

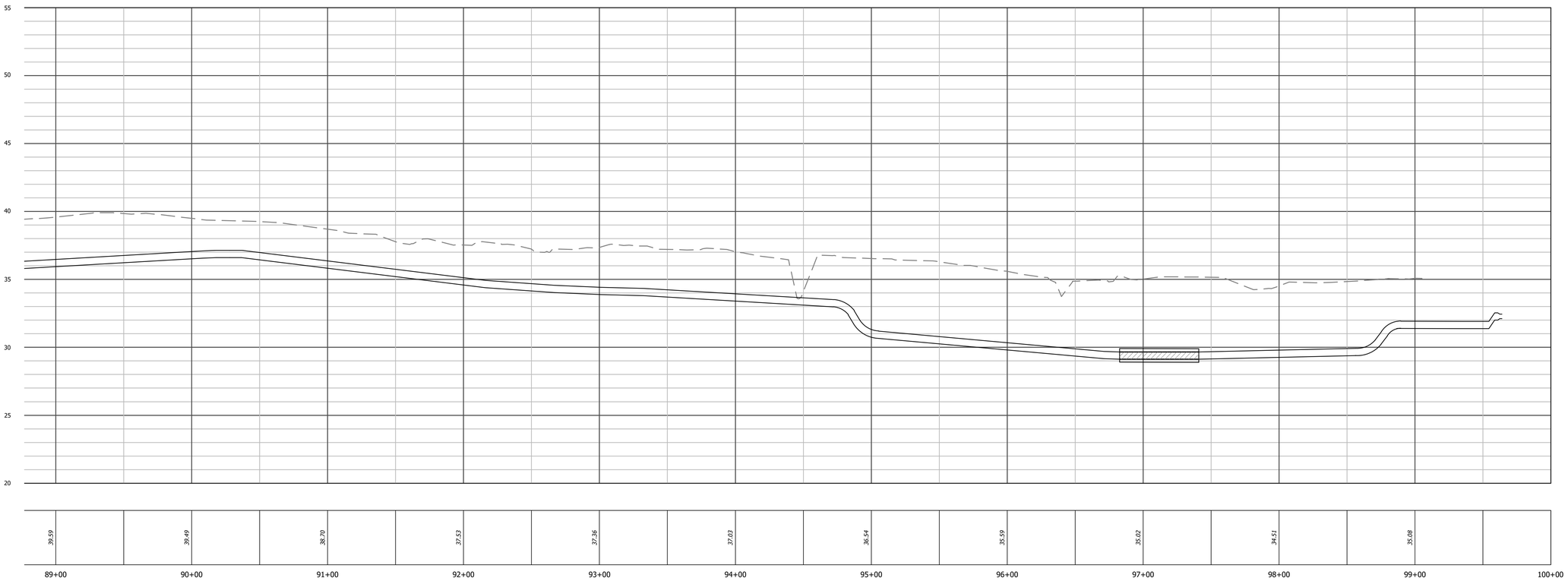

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (10 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.09

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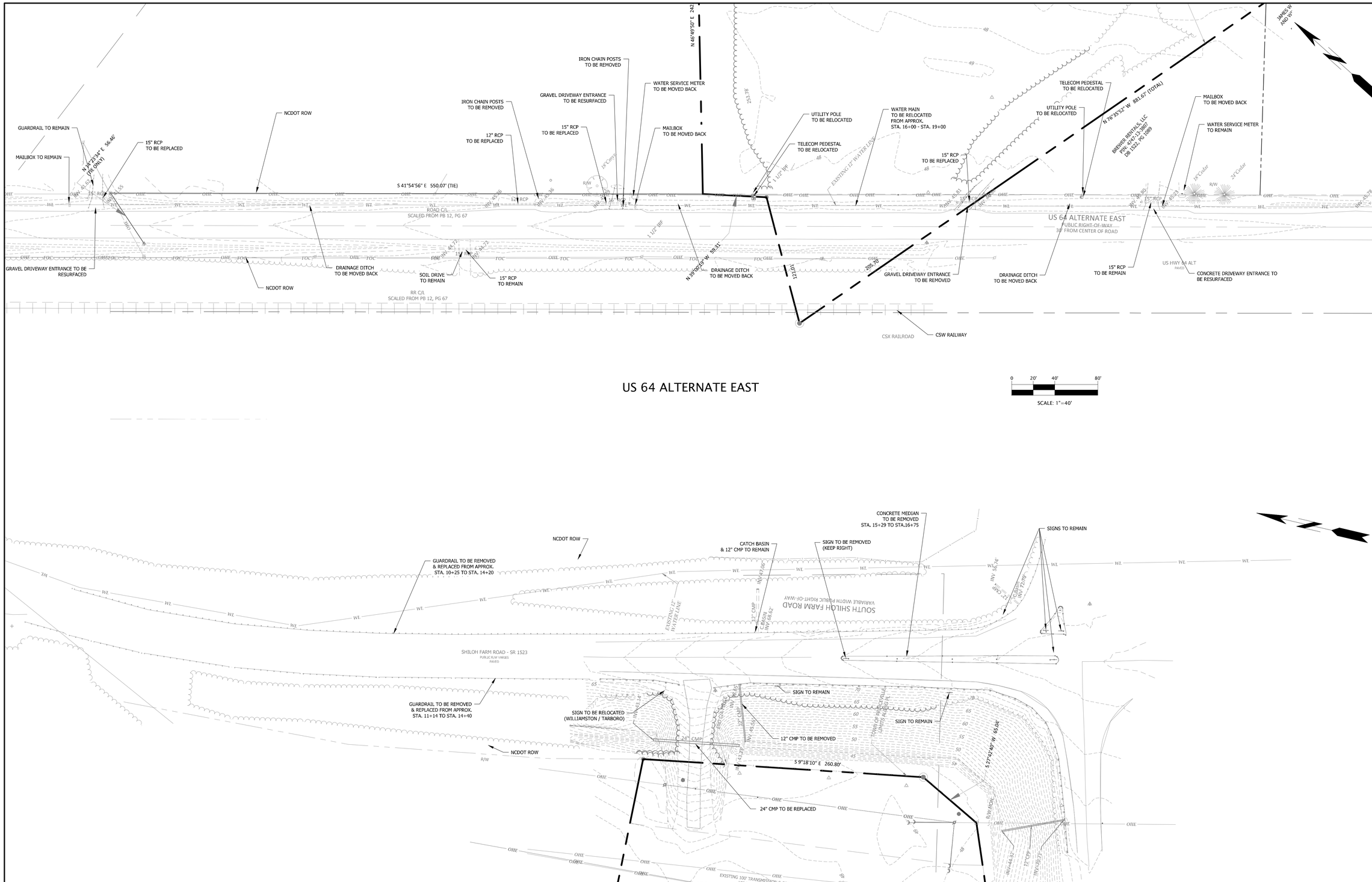

US 64 ALTERNATE EAST

SHILOH FARM ROAD

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE EXISTING CONDITIONS & DEMOLITION PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-7.00

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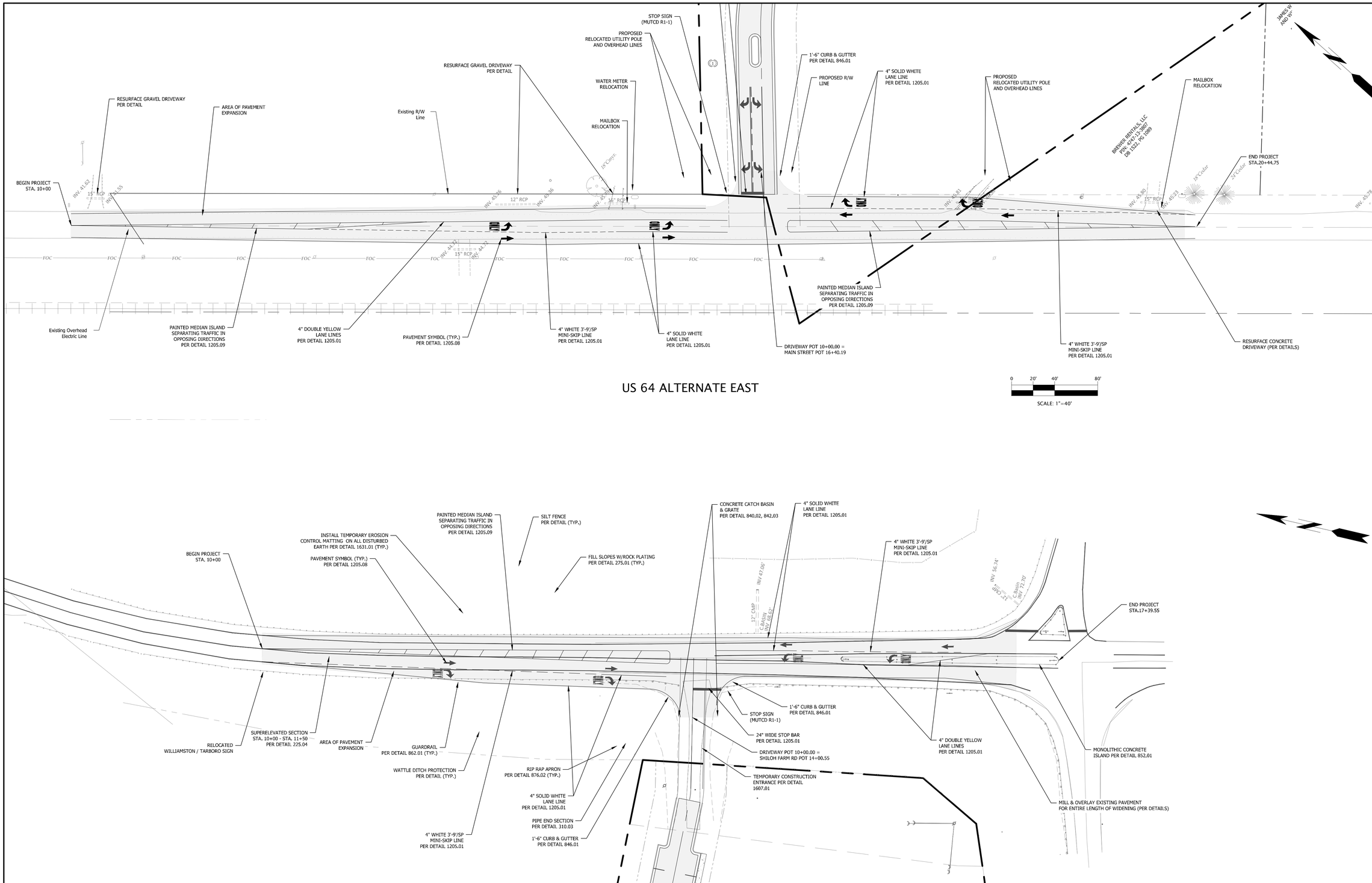

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

OFFSITE ROADWAY IMPROVEMENTS PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-7.01

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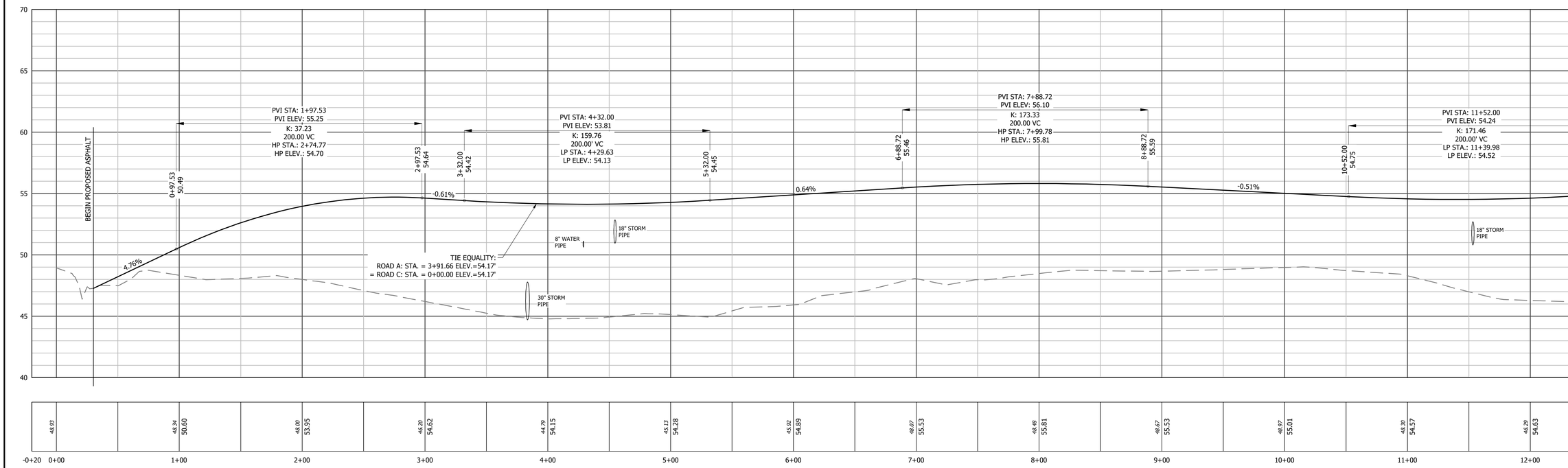
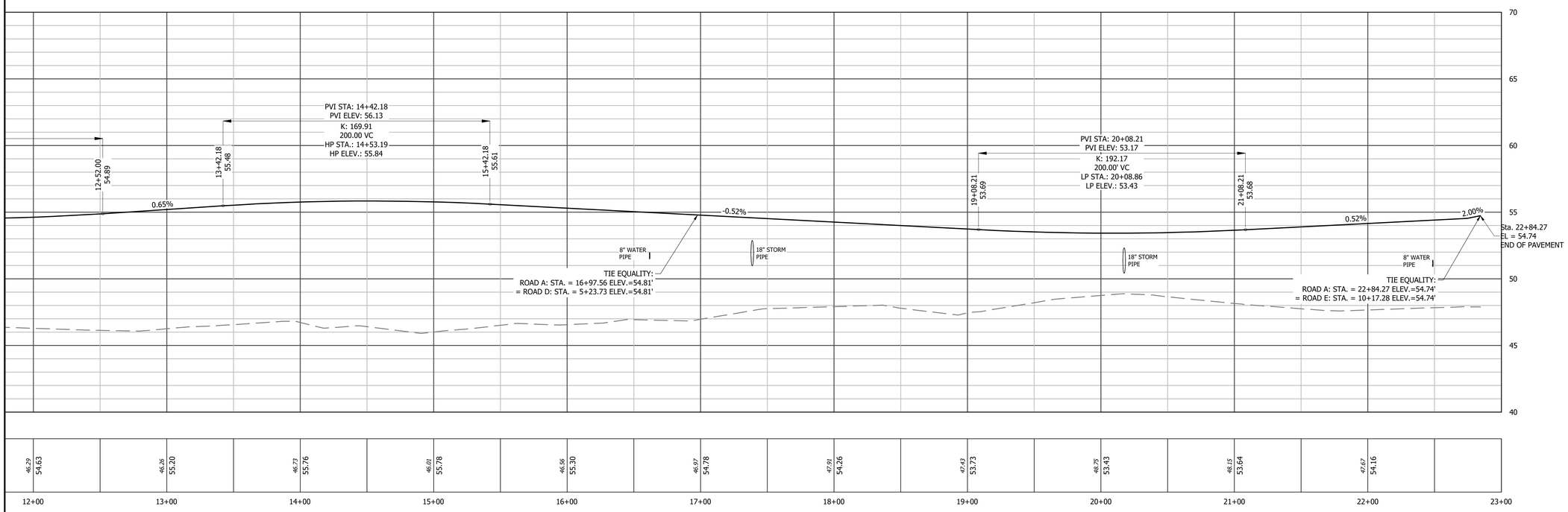


ROAD A
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



EXISTING GRADE
PROPOSED GRADE

ROAD A
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (1 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.00

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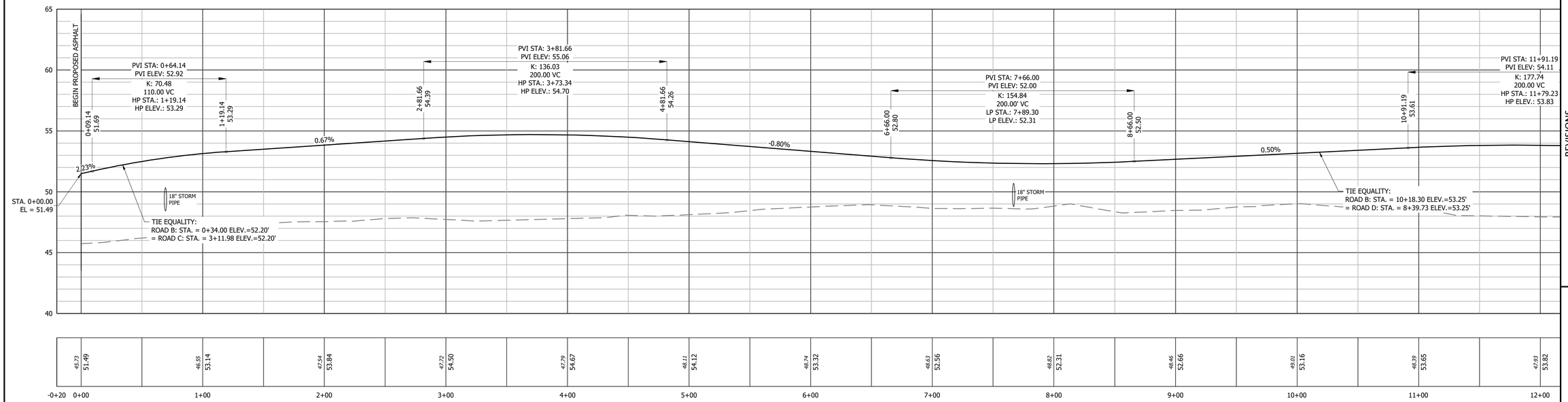
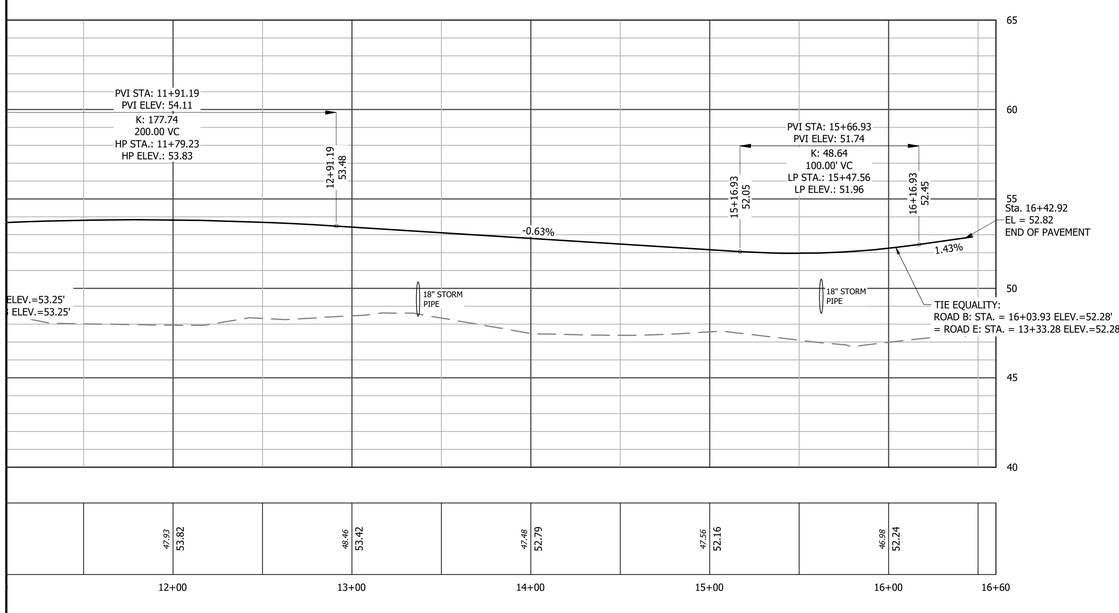


ROAD B
ROADWAY CENTERLINE PROFILE

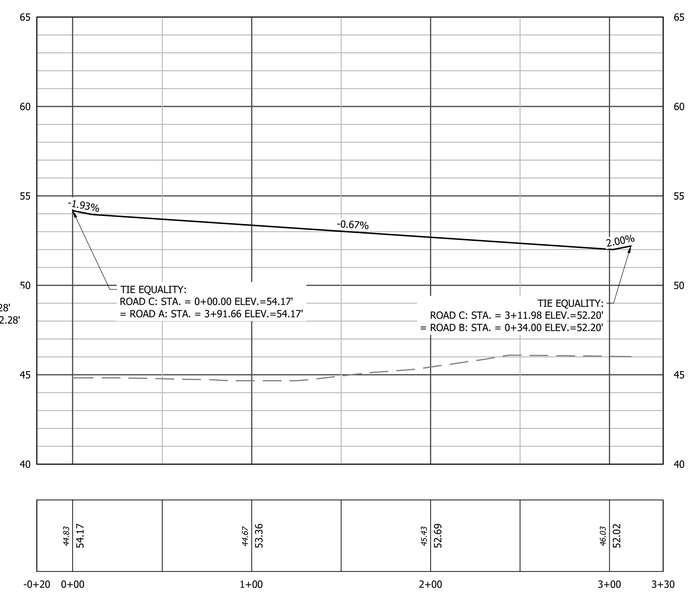
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE



ROAD B
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



ROAD C
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (2 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.01

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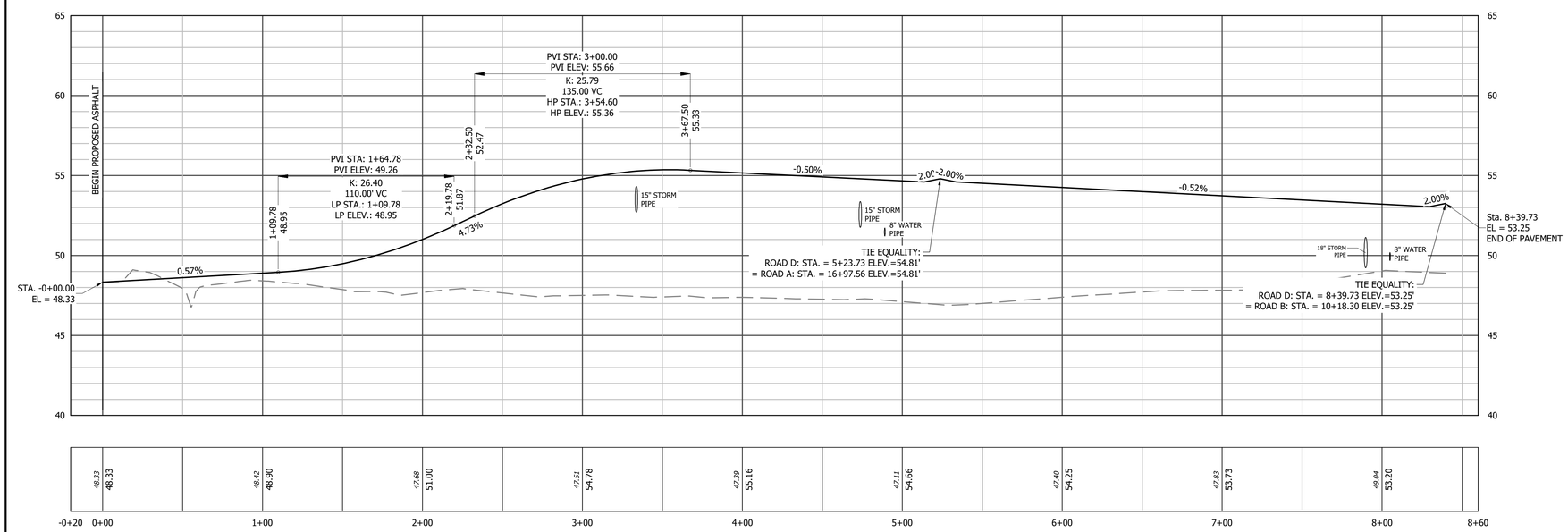
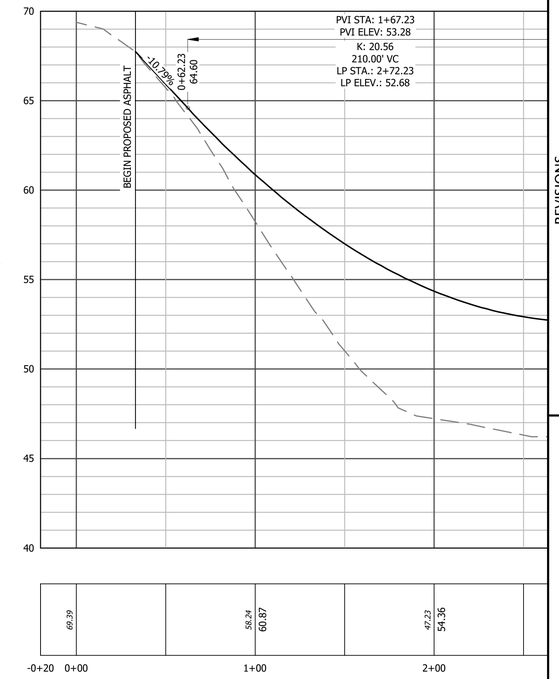


ROAD D
ROADWAY CENTERLINE PROFILE

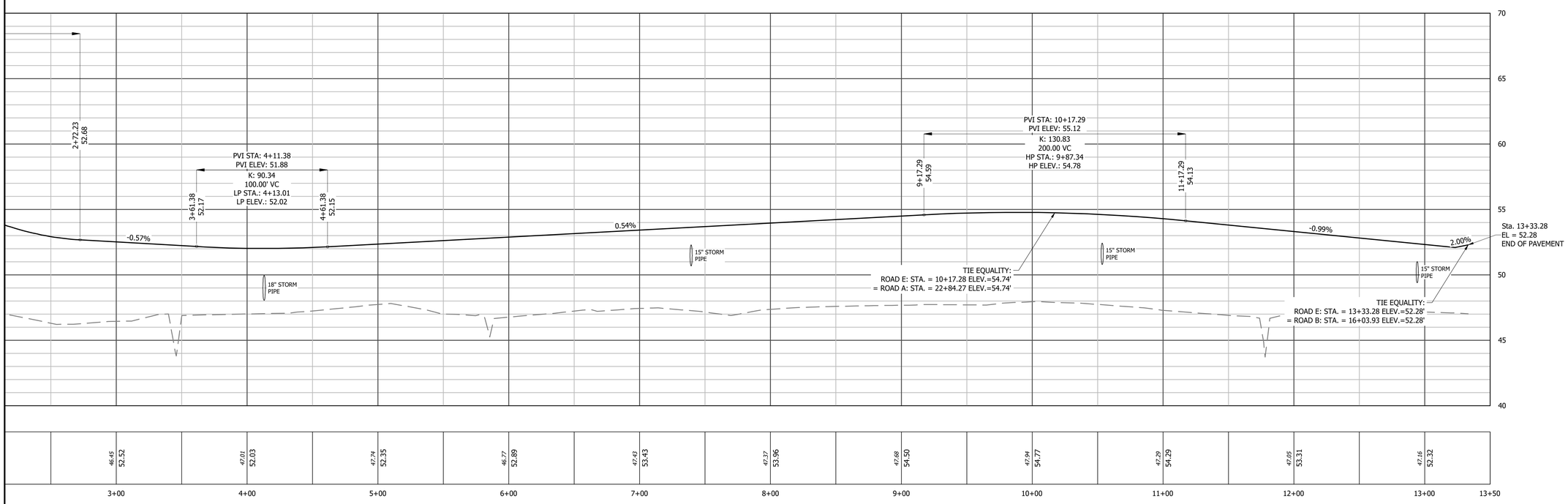
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE



ROAD E
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



ROAD E
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (3 OF 3)

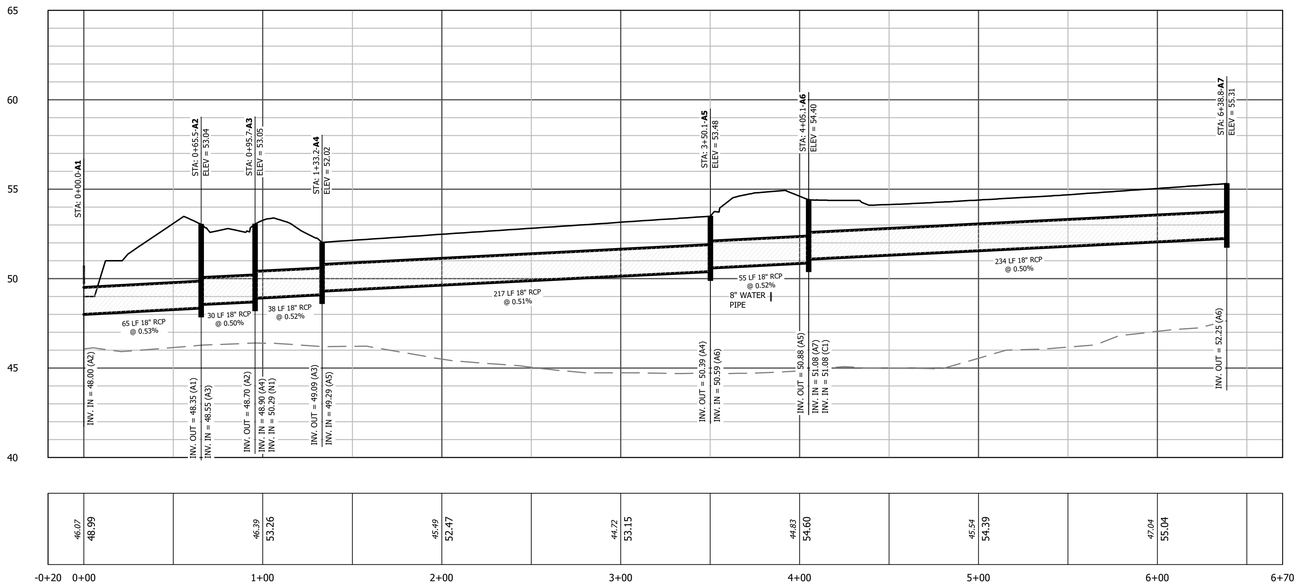
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.02

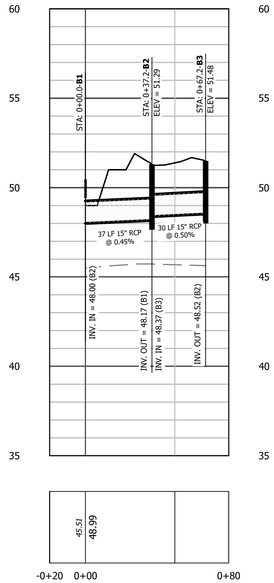
T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-PROF.dwg CTHATCHER 7/13/2023 4:32 PM



SD LINE A
STORM DRAINAGE PROFILE

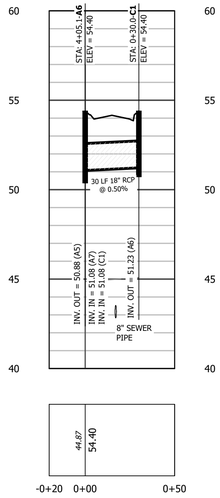
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



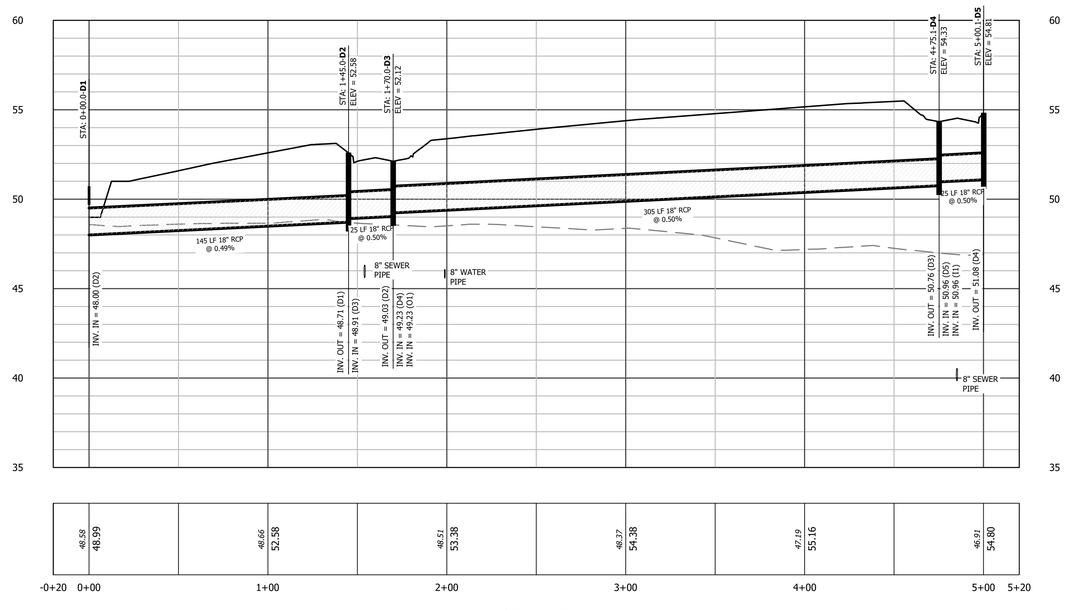
SD LINE B
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE C
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE D
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

STORM DRAIN PROFILE (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.00

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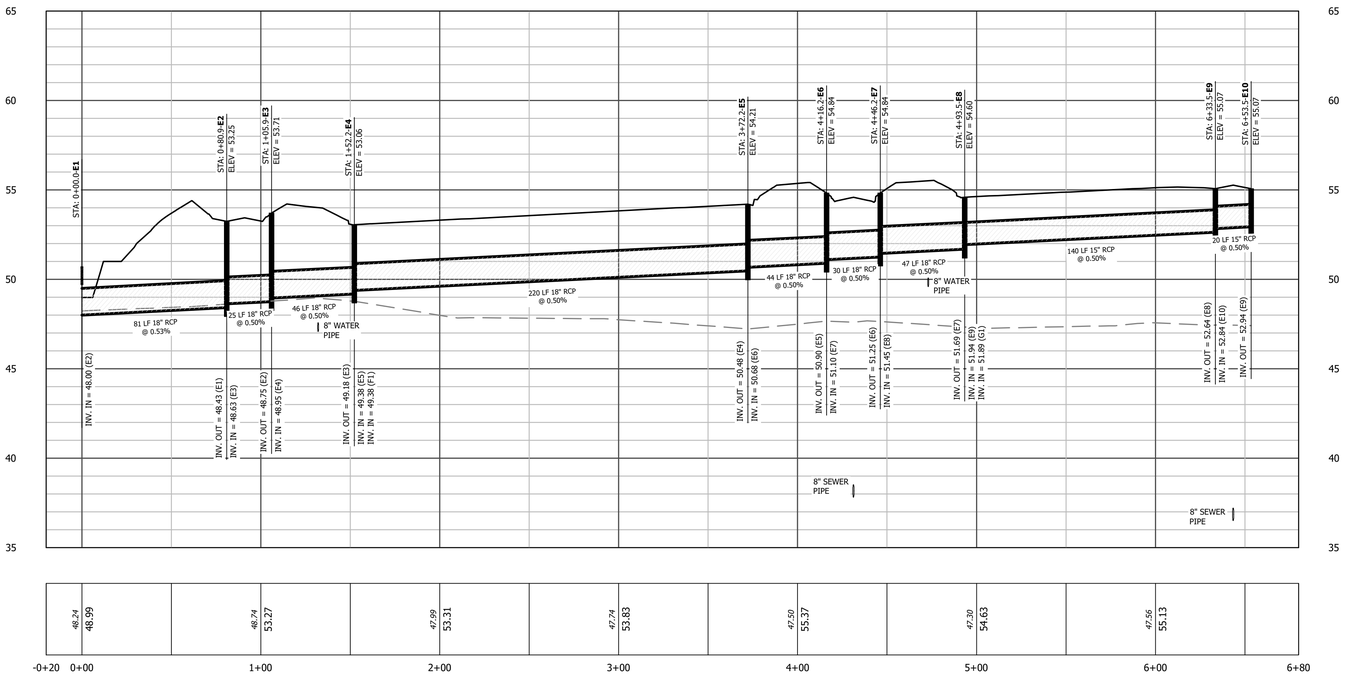
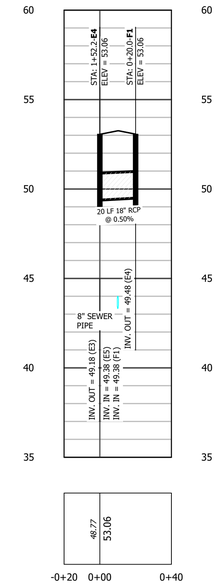
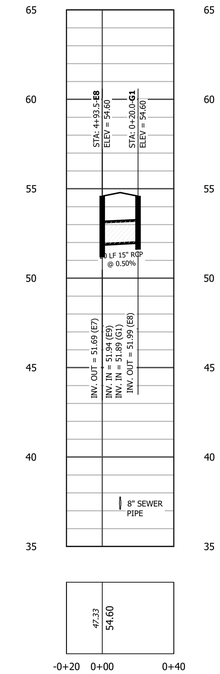


SD LINE E
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

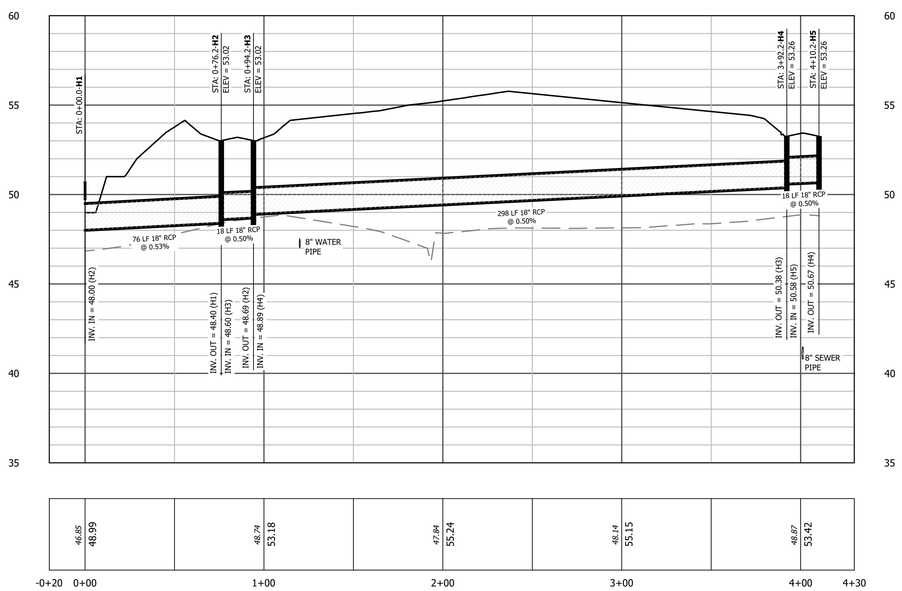
EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



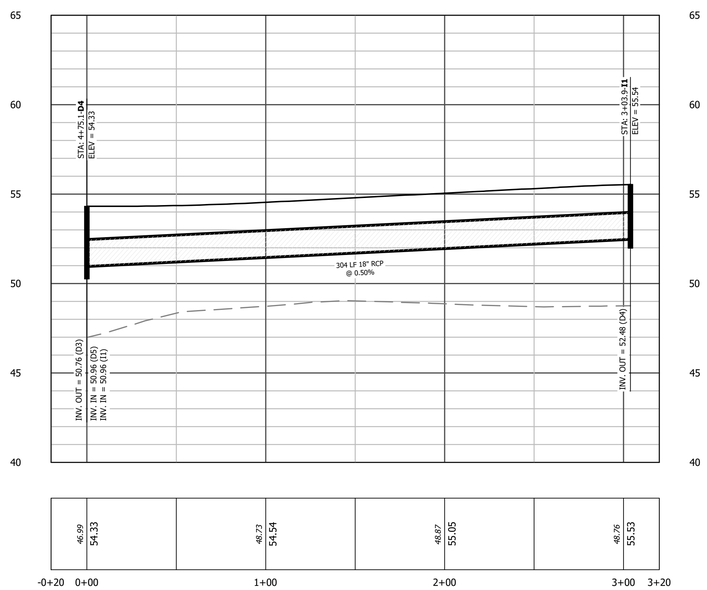
SD LINE F
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE G
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE H
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE I
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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EDGECOMBE COUNTY NORTH CAROLINA
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.01

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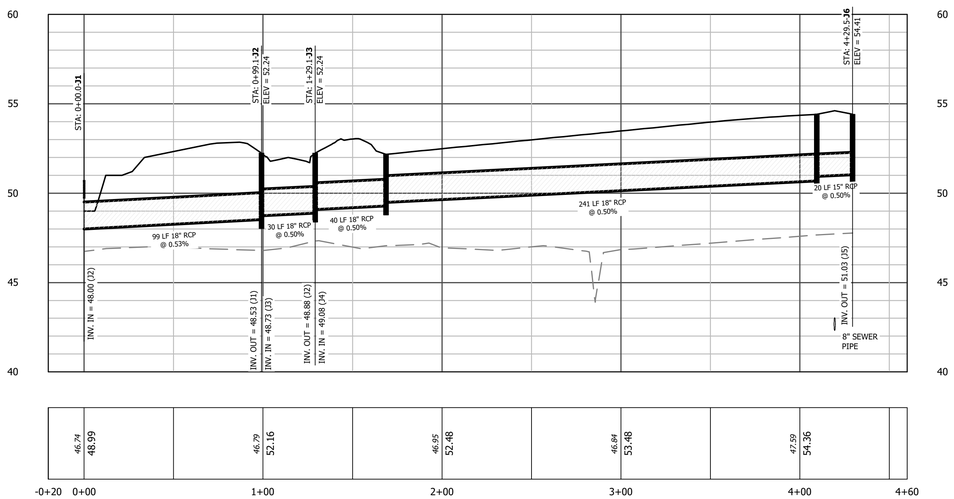
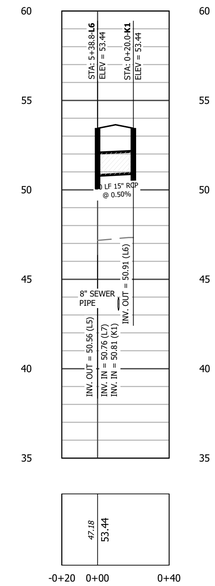


SD LINE J
STORM DRAINAGE PROFILE

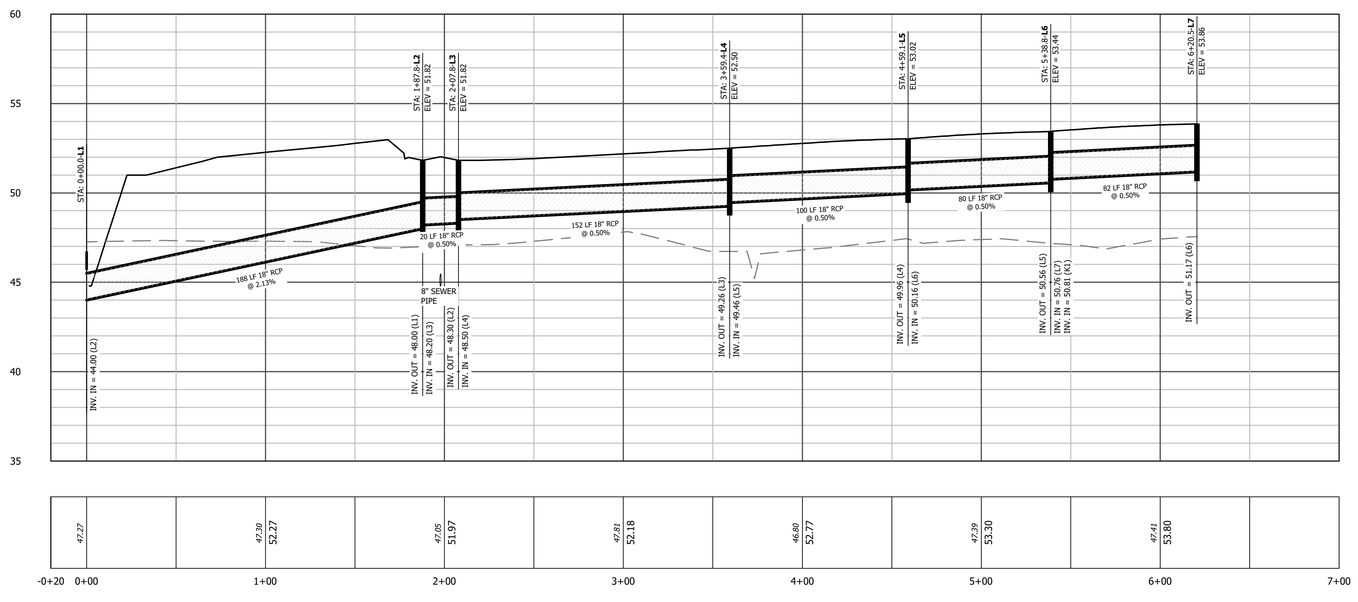
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



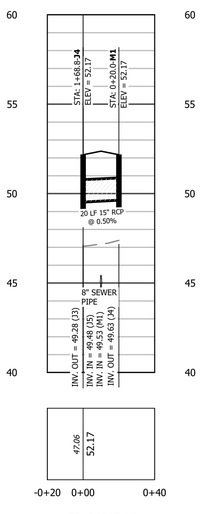
SD LINE K
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



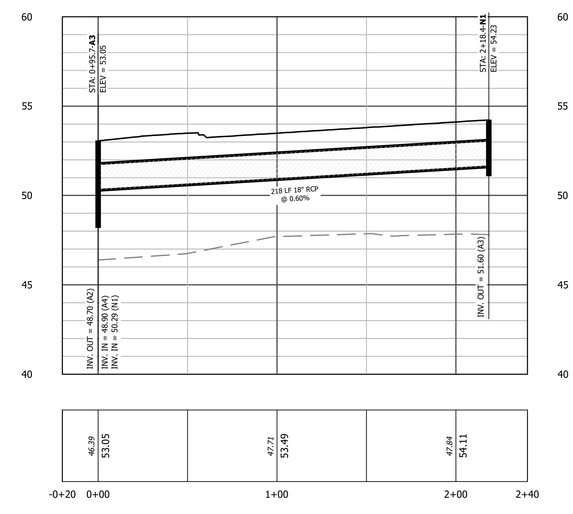
SD LINE L
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE M
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE N
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (3 OF 4)

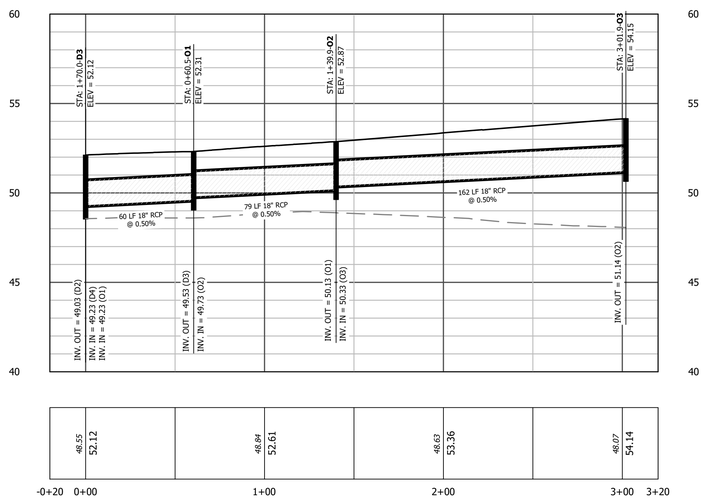
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

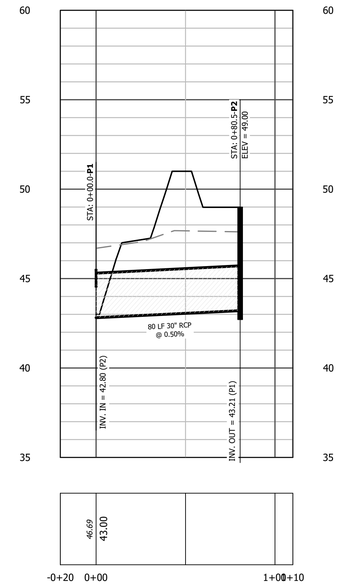
C-9.02

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne_Columbia_CADD\A-Construction Drawings\Sheets\2849-PROF.dwg CTHATCHER 7/13/2023 4:35 PM

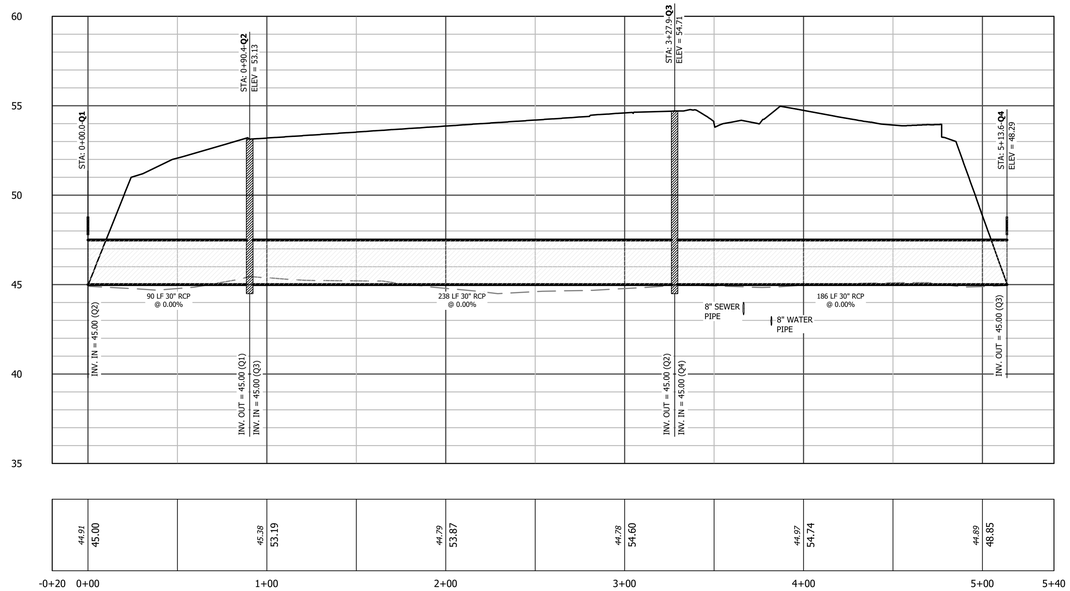


SD LINE O
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



SD LINE P
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



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STORM DRAINAGE PROFILE
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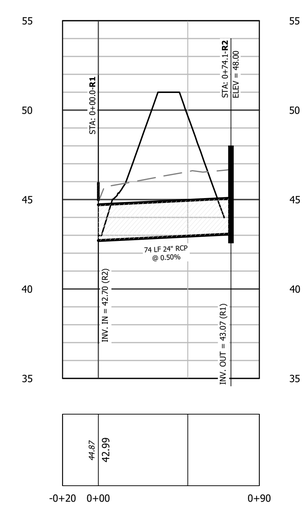
VERT. 1" = 4'



SD LINE R
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.03

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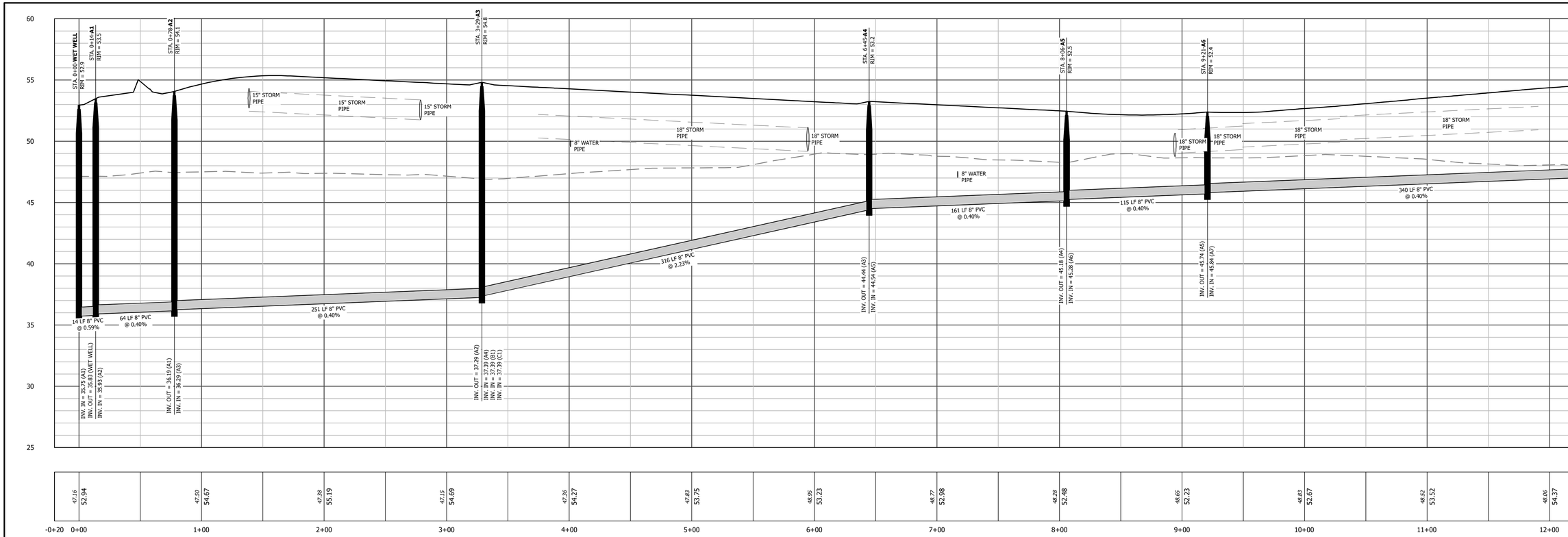
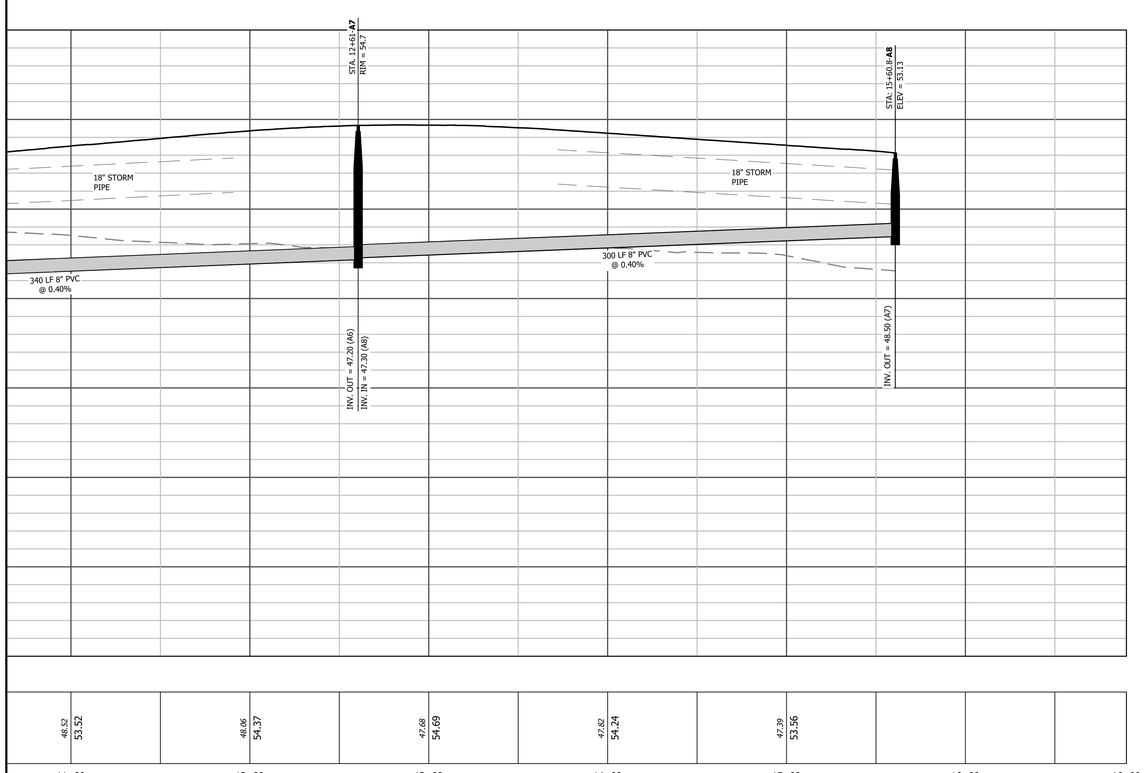


SS LINE A
SANITARY SEWER PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



SS LINE A
SANITARY SEWER PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
SEWER PROFILE (1 OF 3)

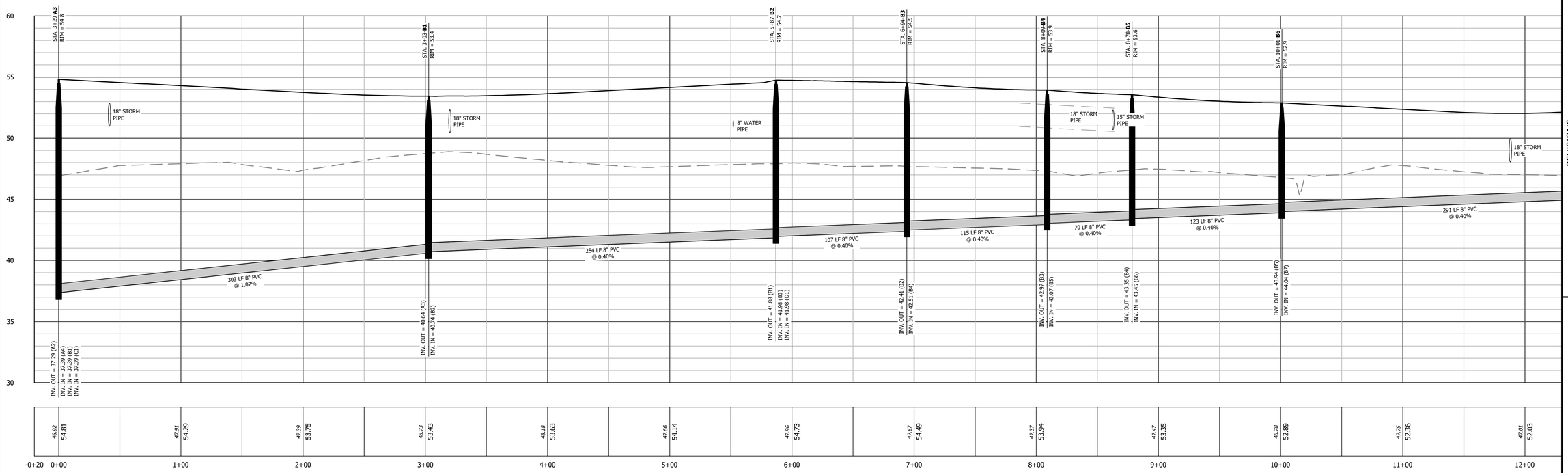
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-10.00

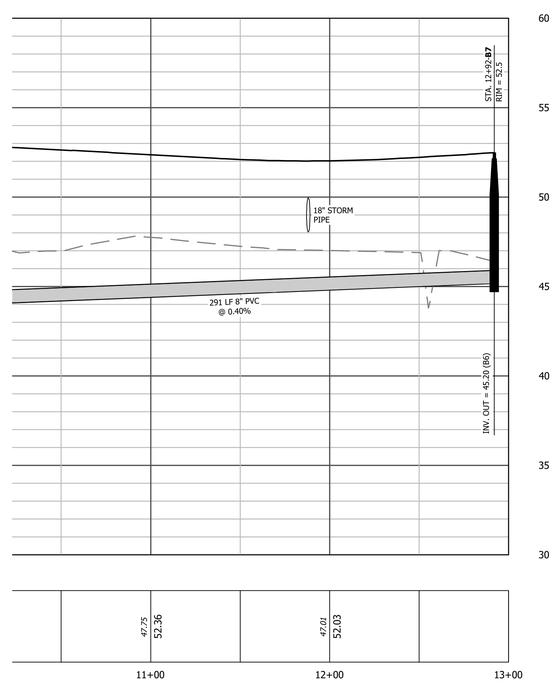
T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne\...Columbia_CADD\A-Construction Drawings\Sheets\2849-PROF.dwg CTHATCHER 7/13/2023 4:37 PM



SS LINE B
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



SS LINE B
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
SEWER PROFILE (2 OF 3)

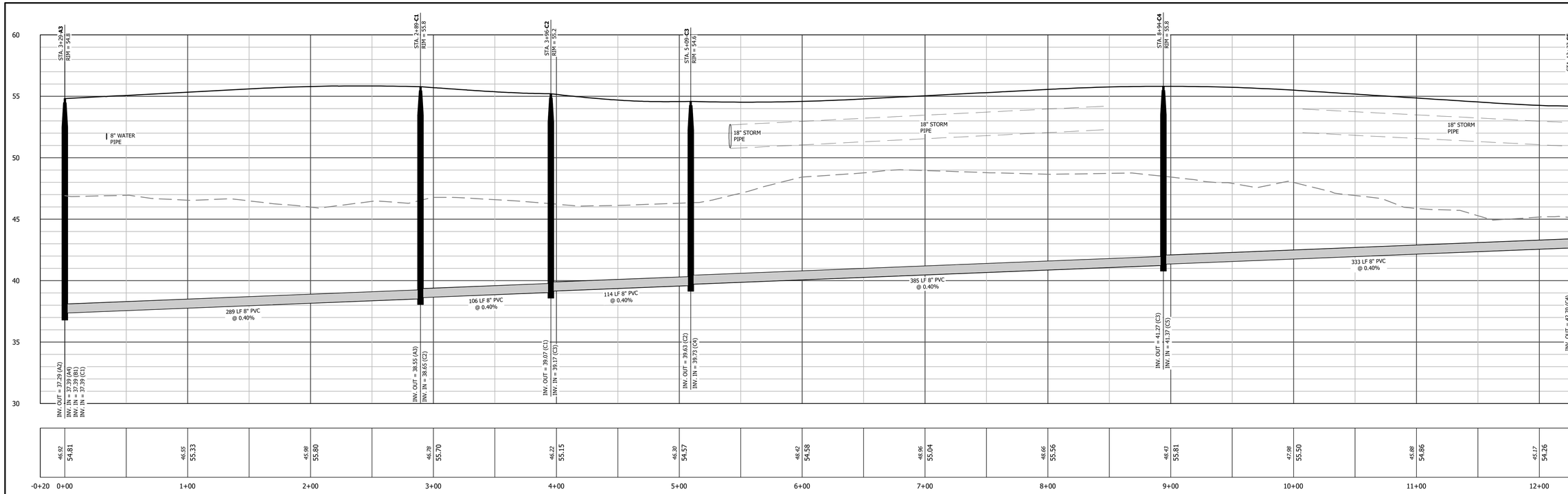
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-10.01

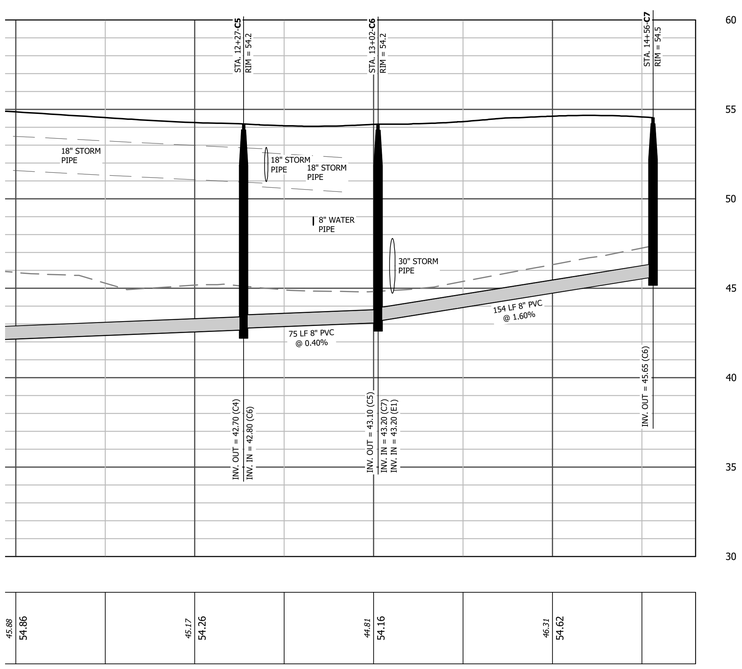
T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-PROF.dwg CTHATCHER 7/13/2023 4:38 PM



SS LINE C
SANITARY SEWER PROFILE

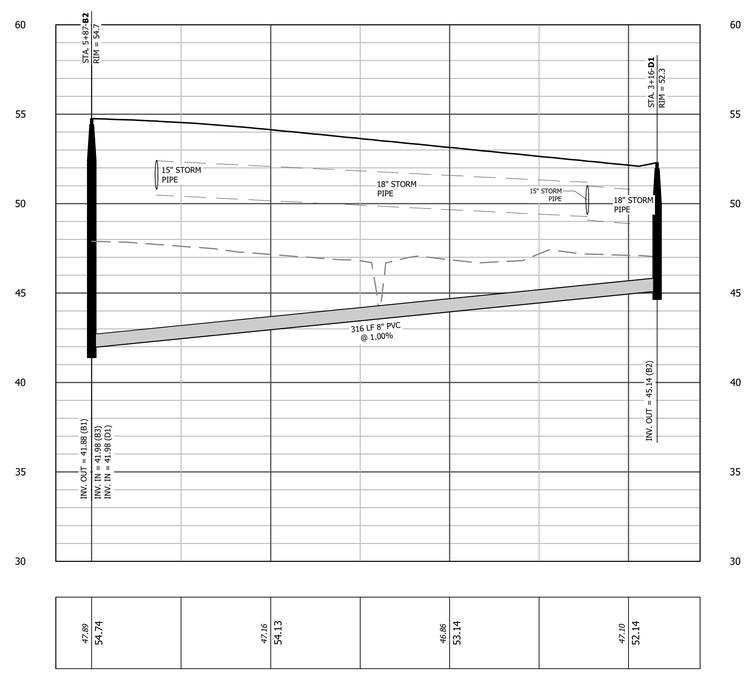
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



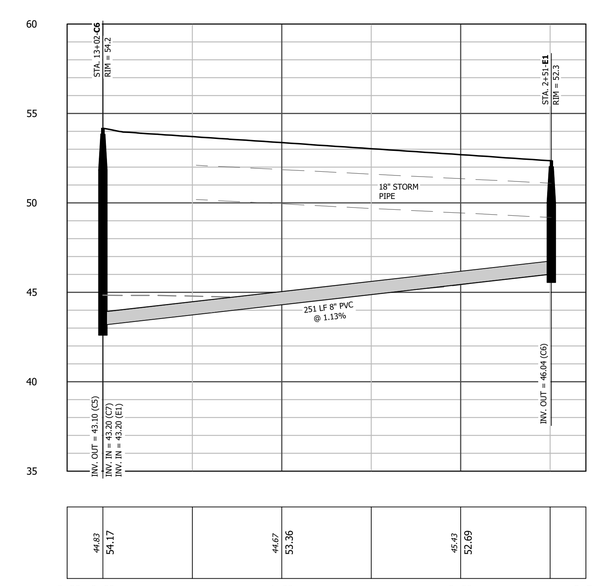
SS LINE C
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SS LINE D
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SS LINE E
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
SEWER PROFILE (3 OF 3)

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C-10.02

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-PROF.dwg CTHATCHER 7/13/2023 4:41 PM

ATTACHMENT 1A:

Site Visit Photographs

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

SITE DIAGRAM

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit
2

Photo 1 Near South Shiloh Farm Road and the eastern side of the site, looking west across the site.

Photo 2 A view of the southeastern corner of the site and showing a powerline easement that extends across the eastern side of the site. A ramp for US Highway 64 is in the background of this photo. Cardboard box debris was noted and is slightly visible in this photo at the top of the ramp.

Photo 3 A typical view across the eastern interior of the site showing dense vegetative overgrowth that was observed across the majority of the site.

Photo 4 One of several areas noted of standing water or surface water on the site. This photo is of one of several drainage ditches observed onsite.

Photo 5 Another typical view of the interior of the site.

Photo 6 Another view of the interior of the site.

Photo 7 From US 64 Alternate or the western side of the site, looking east across the western larger side of the site.

Photo 8 From US 64 Alternate, looking east across the cemetery located on one of the western adjoining properties to the site.

Photo 9 A closer view of concrete grave markers in the cemetery on one of the western adjoining properties.

Photo 10 A headstone observed in the cemetery on one of the western adjoining properties.

Photo 11 A few metal grave markers observed at the rear (or eastern) side of the cemetery that adjoins the site.

Photo 12 A typical view of the wooded area on or near the cemetery property.

Photo 13 Woodland and dense vegetative overgrowth on one of the northern adjoining properties along South Shiloh Farm Road. Residences visible in the background of this photo are along Lynch Drive and located on another northern adjoining property.

Photo 15 A typical view of residences along Lynch Drive on portions of the northern adjoining properties.

Photo 16 Another typical view of residences along Lynch Drive on portions of the northern adjoining properties.

Photo 17 Looking east across South Shiloh Farm Road at undeveloped woodland on the eastern adjoining property across the road.

Photo 18 Field and woodland on one of the southern adjoining properties across US Highway 64.

Photo 19 A residence on another southern adjoining property across US Highway 64.

Photo 20 A church on another southern adjoining property across US Highway 64.

Photo 21 A residence and garage along US 64 Alternate on one of the western adjoining properties.

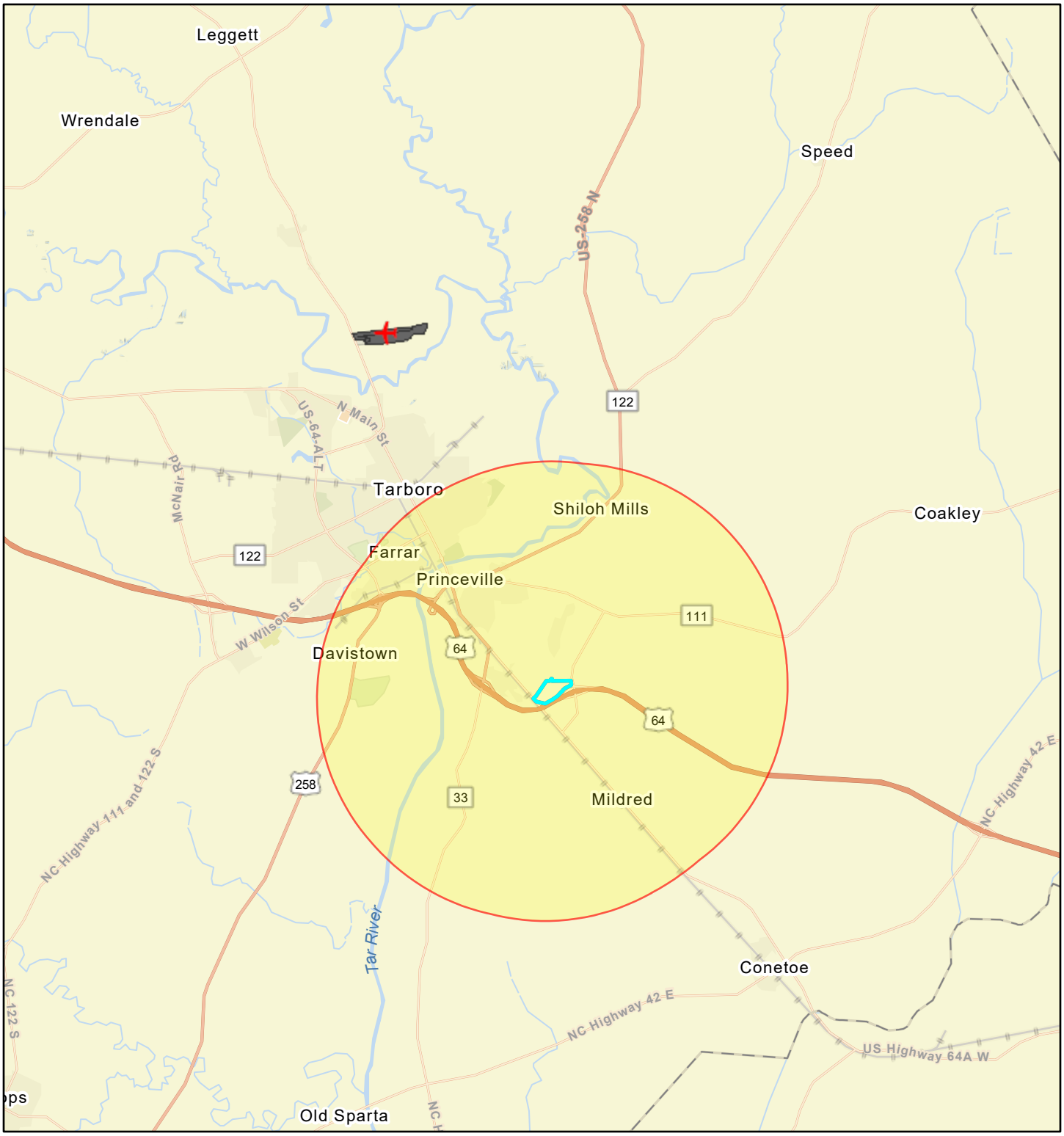
Photo 22 A residence under construction (left), woodland (background) and a residence (right) on the western adjoining property on the east side of Highway 64 Alternate.

Photo 23 Woodland and railroad tracks on the western adjoining property across Highway 64 Alternate.

ATTACHMENT 2:

NEPAssist Airport Map with 15,000-foot Buffer

Princeville 53-Acre Site Redevelopment - Airports with 15,000-foot Buffer



October 6, 2023

1:144,448

0 1 2 4 mi

0 1.5 3 6 km

Project Buffer

Princeville 53-Acre Site Redevelopment

Airport Points

Airport Polygons

State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, EPA OEI

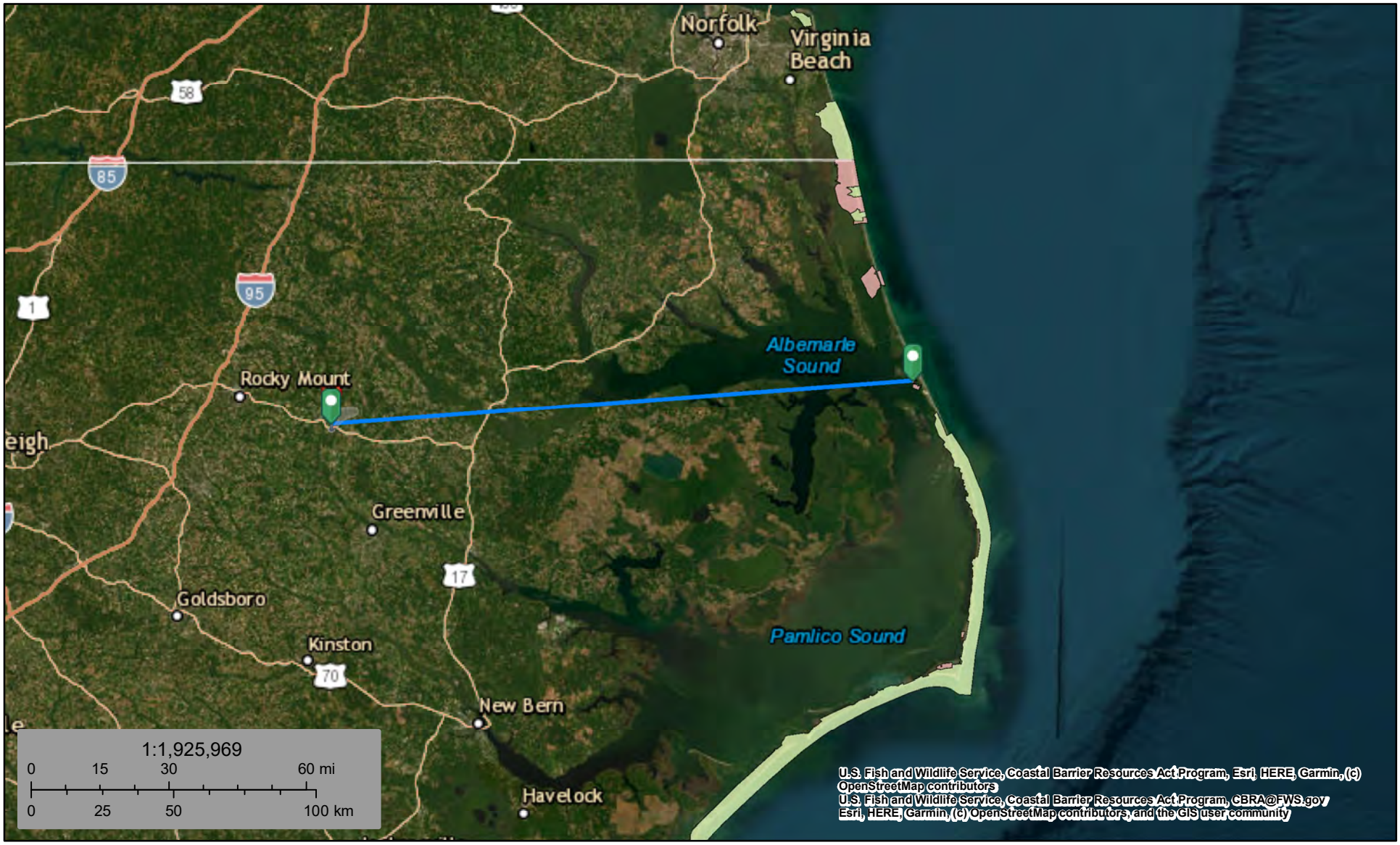
ATTACHMENT 3:

USFWS CBRS Map

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

Princeville 53-Acre Site



June 20, 2023

CBRS Units

- Otherwise Protected Area
- System Unit

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward

ATTACHMENT 4:

FEMA FIRMette with Parcel Boundary and NFIP Community Status Book Report

National Flood Hazard Layer FIRMette

FEMA

77°30'44"W 35°52'27"N

77°30'6"W 35°51'58"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2023 at 8:22 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Community Status Book Report

Communities Participating in the National Flood Program

NORTH CAROLINA

CID	Community Name	County	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date	Tribal	CRS Entry Date	Curr Eff Date	Curr Class	% Disc SFHA	% Disc Non SFHA
370091K	PINETOPS, TOWN OF	EDGECOMBE COUNTY	01/09/74	03/28/80	06/02/15	03/28/80	No					
370160F	PINEVILLE, TOWN OF	MECKLENBURG COUNTY	06/21/74	03/18/87	09/02/15	03/18/87	No	10/01/91	10/01/20	5	25%	10%
370599#	PINK HILL, TOWN OF	LENOIR COUNTY		07/02/04	(NSFHA)	01/26/12	No					
370372L	PITT COUNTY *	PITT COUNTY	06/30/78	01/06/83	06/19/20	01/06/83	No	10/01/02	10/01/18	8	10%	05%
370420K	PITTSBORO, TOWN OF	CHATHAM COUNTY	10/20/78	02/02/07	11/17/17	02/02/07	No					
370618#	PLEASANT GARDEN, TOWN OF	GUILFORD COUNTY		06/18/07	03/16/09	03/17/09	No					
370249#	PLYMOUTH, TOWN OF	WASHINGTON COUNTY	05/20/77	08/19/85	02/04/09	08/19/85	No	10/01/94	10/01/99	8	10%	05%
370194#	POLK COUNTY*	POLK COUNTY	11/29/74	01/01/87	10/02/08	01/01/87	No					
370286#	POLKTON, TOWN OF	ANSON COUNTY	02/10/78	09/03/08	10/16/08	08/20/08	No					
370634#	POLKVILLE, TOWN OF	CLEVELAND COUNTY		02/20/08	02/20/08	03/22/12	No					
370142K	POLLOCKSVILLE, TOWN OF	JONES COUNTY	03/15/74	09/04/86	06/15/22	09/04/86	No					
370485J	PRINCETON, TOWN OF	JOHNSTON COUNTY		10/20/00	06/20/18	02/14/97	No					
370318K	PRINCEVILLE, TOWN OF	EDGECOMBE COUNTY	07/25/75	04/15/80	06/02/15	04/15/80	No					
370635#	PROCTORVILLE, TOWN OF	ROBESON COUNTY		01/19/05	01/05/07	10/24/12	No					
370132#	RAEFORD, CITY OF	HOKE COUNTY	12/20/74	06/03/86	12/18/07	06/03/86	No					
370243N	RALEIGH, CITY OF	WAKE COUNTY	06/28/74	08/15/78	07/19/22	08/15/78	No	10/01/91	10/01/14	10		0%
370198#	RAMSEUR, TOWN OF	RANDOLPH COUNTY	02/15/74	03/01/87	03/16/09	03/01/87	No					
370199#	RANDLEMAN, CITY OF	RANDOLPH COUNTY	11/22/74	07/01/87	03/16/09	07/01/87	No					
370195C	RANDOLPH COUNTY *	RANDOLPH COUNTY	01/03/75	07/16/81	11/17/17	07/16/81	No					
370324#	RANLO, TOWN OF	GASTON COUNTY	06/27/75	03/03/03	11/04/09	03/03/03	No					
370079#	RED CROSS, TOWN OF	STANLY COUNTY		09/03/08	06/16/09	07/29/10	No					
370516#	RED OAK, TOWN OF	NASH COUNTY		01/20/82	06/18/13	01/22/99	No					
370204#	RED SPRINGS, TOWN OF	ROBESON COUNTY	04/01/77	05/01/87	01/05/07	05/01/87	No					
370209#	REIDSVILLE, CITY OF	ROCKINGHAM COUNTY	08/01/75	09/29/78	09/28/07	09/29/78	No					
370643#	RENNERT, TOWN OF	ROBESON COUNTY		01/19/05	01/05/07	06/23/11	No					
370041#	RHODHISS, TOWN OF	BURKE COUNTY/CALDWELL COUNTY	06/21/74	07/03/86	07/07/09	07/03/86	No					
370176#	RICH SQUARE, TOWN OF	NORTHAMPTON COUNTY		02/04/09	(NSFHA)	04/25/19	No					
370511#	RICHFIELD, TOWN OF	STANLY COUNTY		09/21/00	06/16/09(M)	01/31/12	No					
370341K	RICHLANDS, TOWN OF	ONSLOW COUNTY	07/11/75	07/03/86	06/19/20	07/03/86	No					
370348#	RICHMOND COUNTY*	RICHMOND COUNTY	07/28/78	09/06/89	07/07/14	09/06/89	No					
370432K	RIVER BEND, TOWN OF	CRAVEN COUNTY	05/14/82	08/19/86	06/15/22	08/19/86	No	05/01/10	05/01/10	8	10%	05%
370117#	ROANOKE RAPIDS, CITY OF	HALIFAX COUNTY	03/08/74	04/17/78	02/04/09	04/17/78	No					
370166#	ROBBINS, TOWN OF	MOORE COUNTY	11/22/74	07/03/86	01/02/08	07/03/86	No					
370106#	ROBBINSVILLE, TOWN OF	GRAHAM COUNTY	06/14/74	12/01/89	04/19/10	12/01/89	No					
370156#	ROBERSONVILLE, TOWN OF	MARTIN COUNTY	06/07/74	07/01/87	02/04/09	07/01/87	No					
370202K	ROBESON COUNTY *	ROBESON COUNTY	07/28/78	02/17/89	12/06/19	02/17/89	No					
370350#	ROCKINGHAM COUNTY*	ROCKINGHAM COUNTY	06/16/78	05/15/91	01/02/09	05/15/91	No					
370201#	ROCKINGHAM, CITY OF	RICHMOND COUNTY	06/11/76	09/06/89	09/03/08	09/06/89	No					
370214#	ROCKWELL, TOWN OF	ROWAN COUNTY	03/08/74	05/15/78	06/16/09	05/15/78	No					
370092#	ROCKY MOUNT, CITY OF	EDGECOMBE COUNTY/NASH COUNTY	03/01/74	05/01/78	06/18/13	05/01/78	No	10/01/92	10/01/19	7	15%	05%
	THE TOWN OF BATTLEBORO (370088) , EDGECOMBE COUNTY, WAS MERGED INTO THE CITY OF ROCKY MOUNT EFFECTIVE 7-1-96.											
370468K	ROLESVILLE, TOWN OF	WAKE COUNTY		03/03/92	07/19/22	07/31/01	No					
370258#	RONDA, TOWN OF	WILKES COUNTY	09/06/74	07/03/86	12/03/09(M)	07/03/86	No					
370421#	ROPER, TOWN OF	WASHINGTON COUNTY	06/21/74	08/05/85	02/04/09	08/05/85	No	10/01/94	10/01/99	8	10%	05%
	FORMERLY UNDER WASHINGTON COUNTY											
370375#	ROSE HILL, TOWN OF	DUPLIN COUNTY		02/16/06	02/16/07	07/17/06	No					
375358#	ROSMAN, TOWN OF	TRANSYLVANIA COUNTY	06/03/72	06/02/72	04/19/10	06/02/72	No					
370351B	ROWAN COUNTY *	ROWAN COUNTY	07/28/78	11/01/79	11/16/18	11/01/79	No					
370347K	ROXBORO, CITY OF	PERSON COUNTY	01/13/78	09/14/90	12/06/19	03/25/91	No					
370605#	ROXOBEL, TOWN OF	BERTIE COUNTY		02/04/09	08/03/09	02/04/09	No					

ATTACHMENT 5:

North Carolina Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants and NEPAssist Map Showing Nonattainment Areas

logo

North Carolina Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of November 30, 2023

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 μg/m^3) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:
NORTH CAROLINA GO

Important Notes

Download National Dataset: dbf | xls | Data dictionary (PDF)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
NORTH CAROLINA								
Cabarrus County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04 05 06 07 08 09 10 11 12 13	01/02/2014	Moderate	Whole	178,011	37/025
Cabarrus County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	176,928	37/025
Catawba County	PM-2.5 (1997)-NAAQS revoked	Hickory-Morganton-Lenoir, NC	05 06 07 08 09 10	12/19/2011 *	Former Subpart 1	Whole	154,358	37/035
Chatham County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	04 05 06	12/26/2007	Former Subpart 1	Part	32,372	37/037
Davidson County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	162,878	37/057
Davidson County	PM-2.5 (1997)-NAAQS revoked	Greensboro-Winston Salem-High Point, NC	05 06 07 08 09 10	12/19/2011 *	Former Subpart 1	Whole	162,878	37/057

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
Davie County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Part	1	37/059
Durham County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	9293	06/17/1994	Moderate	Whole	267,587	37/063
Durham County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	267,587	37/063
Durham County	Carbon Monoxide (1971)	Raleigh-Durham, NC	929394	09/18/1995	Moderate <= 12.7ppm	Whole	267,587	37/063
Edgecombe County	8-Hour Ozone (1997)-NAAQS revoked	Rocky Mount, NC	040506	01/05/2007	Former Subpart 1	Whole	56,552	37/065
Forsyth County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	350,670	37/067
Forsyth County	Carbon Monoxide (1971)	Winston-Salem, NC	9293	11/07/1994	Moderate <= 12.7ppm	Whole	350,670	37/067
Franklin County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	60,619	37/069
Gaston County	1-Hour Ozone (1979)-NAAQS revoked	Charlotte-Gastonia, NC	929394	07/05/1995	Moderate	Whole	206,086	37/071
Gaston County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	206,086	37/071
Gaston County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	190,849	37/071

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
Granville County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	9293	06/17/1994	Moderate	Part	17,725	37/077
Granville County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	59,916	37/077
Guilford County	1-Hour Ozone (1979)-NAAQS revoked	Greensboro-Winston-Salem-High Point, NC	92	11/08/1993	Moderate	Whole	488,406	37/081
Guilford County	PM-2.5 (1997)-NAAQS revoked	Greensboro-Winston Salem-High Point, NC	050607080910	12/19/2011 *	Former Subpart 1	Whole	488,406	37/081
Haywood County	8-Hour Ozone (1997)-NAAQS revoked	Haywood and Swain Counties (Great Smoky NP), NC	040506070809	01/06/2010	Former Subpart 1	Part	985	37/087
Iredell County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Part	68,089	37/097
Iredell County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	65,899	37/097
Johnston County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	168,878	37/101
Lincoln County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	040506070809101112 13	01/02/2014	Moderate	Whole	78,265	37/109
Lincoln County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	64,189	37/109

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
Mecklenburg County	1-Hour Ozone (1979)-NAAQS revoked	Charlotte-Gastonia, NC	92 93 94	07/05/1995	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04 05 06 07 08 09 10 11 12 13	01/02/2014	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Whole	919,628	37/119
Mecklenburg County	Carbon Monoxide (1971)	Charlotte, NC	92 93 94	09/18/1995	Not Classified	Whole	919,628	37/119
Nash County	8-Hour Ozone (1997)-NAAQS revoked	Rocky Mount, NC	04 05 06	01/05/2007	Former Subpart 1	Whole	95,840	37/127
Orange County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	04 05 06	12/26/2007	Former Subpart 1	Whole	133,801	37/135
Person County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	04 05 06	12/26/2007	Former Subpart 1	Whole	39,464	37/145
Rowan County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04 05 06 07 08 09 10 11 12 13	01/02/2014	Moderate	Whole	138,428	37/159
Rowan County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	130,057	37/159
Swain County	8-Hour Ozone (1997)-NAAQS revoked	Haywood and Swain Counties (Great Smoky NP), NC	04 05 06 07 08 09	01/06/2010	Former Subpart 1	Part	3,288	37/173
Union County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04 05 06 07 08 09 10 11 12 13	01/02/2014	Moderate	Whole	201,292	37/179

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
Union County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	12 13 14	08/27/2015	Marginal	Part	176,055	37/179
Wake County	1-Hour Ozone (1979)-NAAQS revoked	Raleigh-Durham, NC	92 93	06/17/1994	Moderate	Whole	900,993	37/183
Wake County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	04 05 06	12/26/2007	Former Subpart 1	Whole	900,993	37/183
Wake County	Carbon Monoxide (1971)	Raleigh-Durham, NC	92 93 94	09/18/1995	Moderate <= 12.7ppm	Whole	900,993	37/183

Important Notes

EPA NEPAssist

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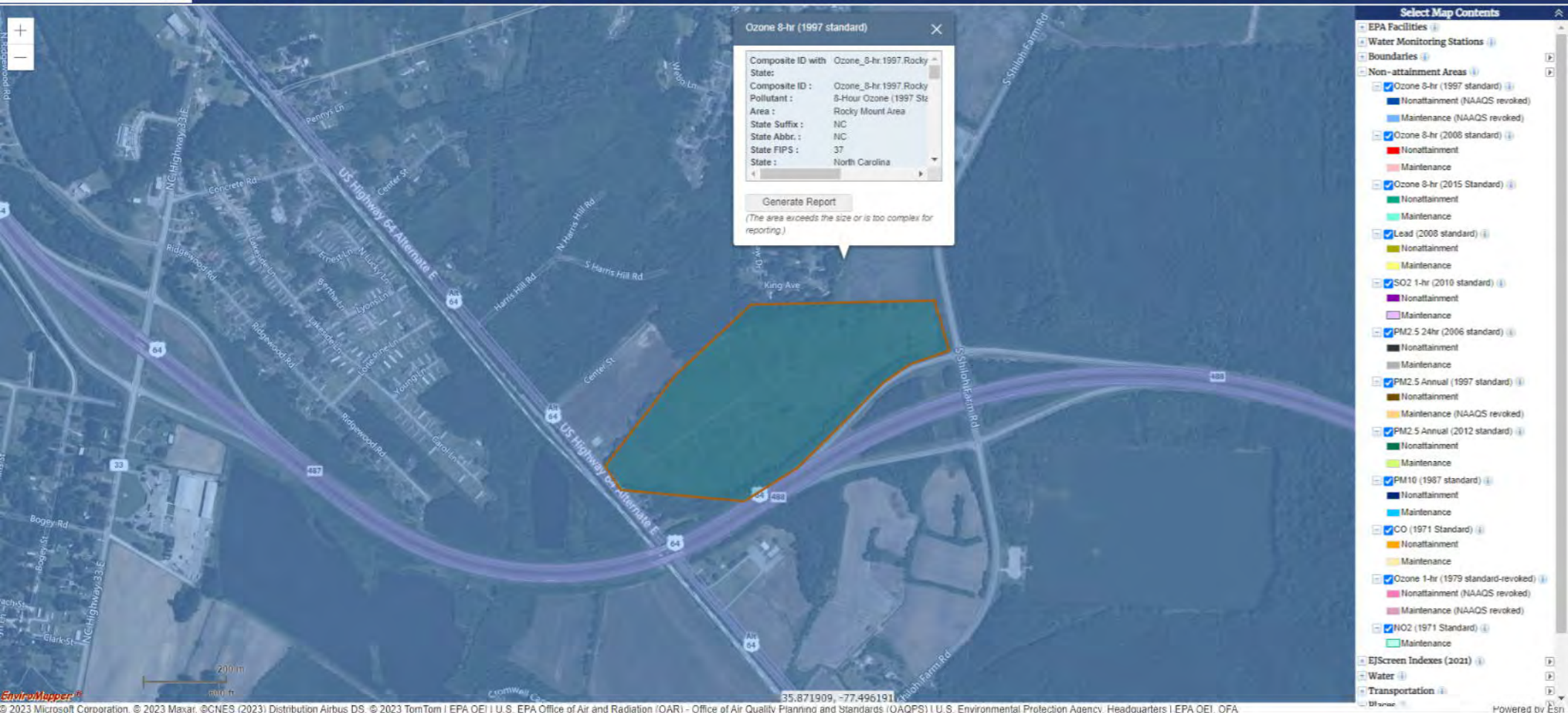


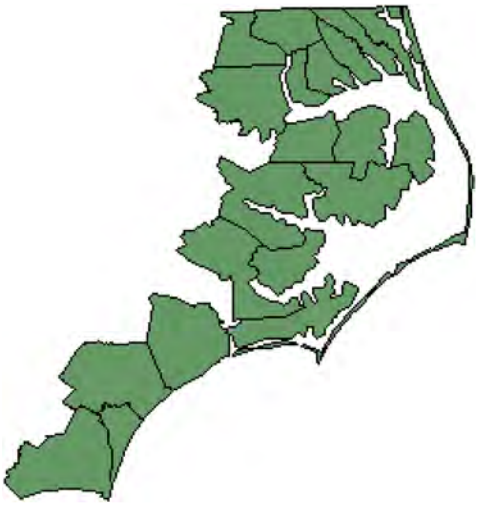
ATTACHMENT 6:

NC DCM Counties List and Maps

NORTH CAROLINA
Environmental Quality

CAMA Counties

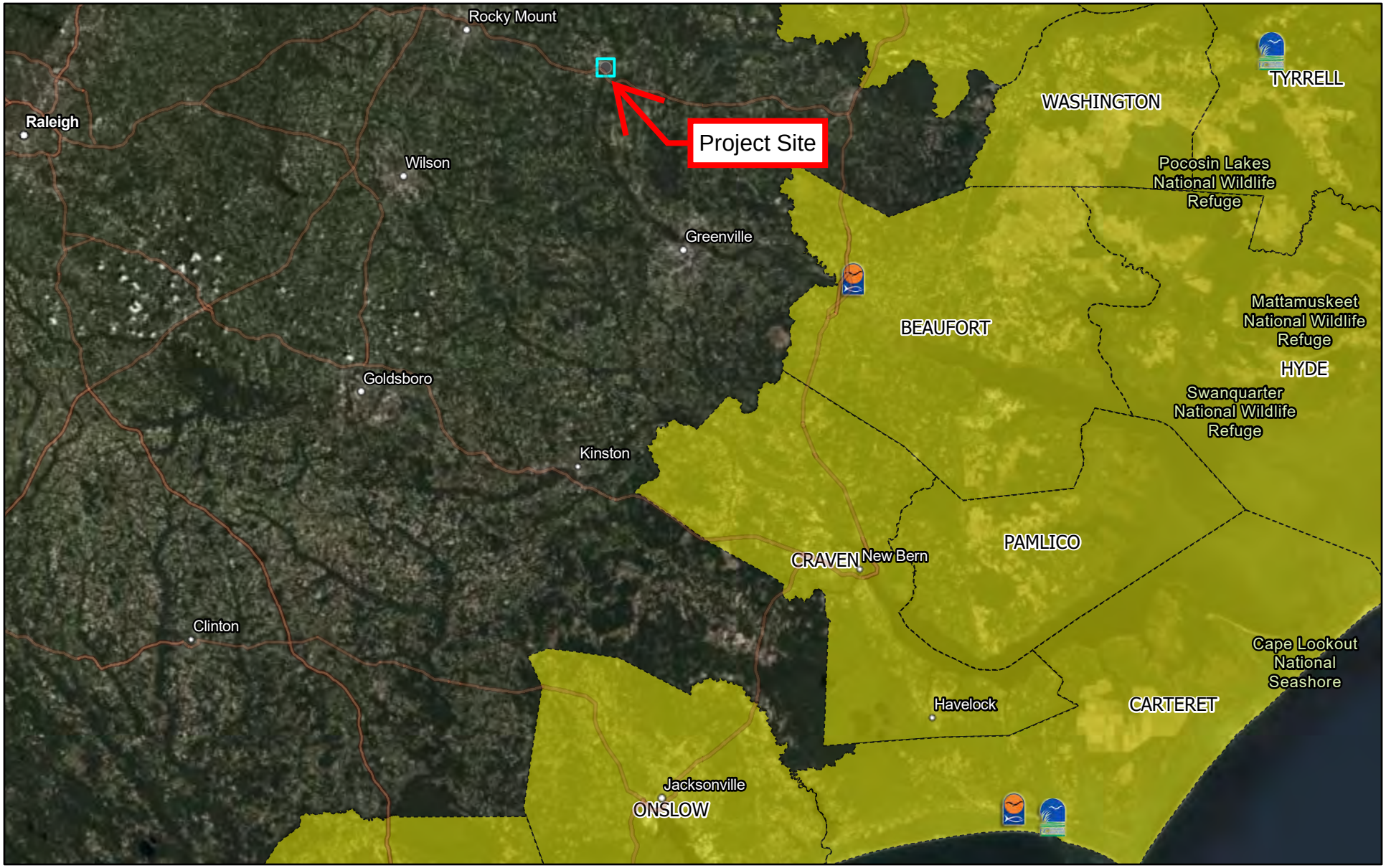
The following counties are subject to the rules and policies of the Coastal Resources Commission, which administers the Coastal Area Management Act. If you are planning to develop in one of these counties, check to see whether your project is also in an Area of Environmental Concern (https://deq.nc.gov/about/divisions/coastal-management/coastal-management-rules/coastal-development-rules). If it is, you may need a CAMA permit.

CAMA Counties		
• Beaufort • Bertie • Brunswick • Camden • Carteret • Chowan • Craven • Currituck • Dare • Gates	• Hertford • Hyde • New Hanover • Onslow • Pamlico • Pasquotank • Pender • Perquimans • Tyrrell • Washington	

Showing 1 to 1 of 1 entries

About Coastal Management

Division of Coastal Management - Princeville 53 Acres



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DCM Office Locations

DCM-NERRS

CAMA Jurisdiction

DCM

1:1,155,581

0 5 10 20 mi

0 12.5 25 50 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

NC Department of Environmental Quality

2017

ATTACHMENT 7:

Contamination and Toxic Substances

Phase I ESA Report (May 24, 2023), 1029 Lynch Drive Historical Aerial Photographs and Deed, NEPAssist EPA Facilities with 1-mile Buffer, Facility Reports, NC DEQ DWM Site Locator Screening Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, and NC EPA Radon Level Map

Phase I Environmental Site Assessment (Revised)

Town of Princeville Properties – 53 Acres

Between US-64 Alternate and South Shiloh Farm Road

Princeville, Edgecombe County, NC

May 24, 2023 | Terracon Project No. 72237045

Prepared for:

The Wooten Company
301 West 14th Street
Greenville, North Carolina

Prepared by:

Terracon Consultants, Inc.
Winterville, North Carolina

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

314 Beacon Dr
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May 24, 2023

The Wooten Company
301 West 14th Street
Greenville, NC 27834-4035

Attn: Mr. Derrick Smith, PE
P: (252) 757-1096 Ext. 235
E: dsmith@thewootencompany.com

Re: Phase I Environmental Site Assessment (Revised)
Town of Princeville Properties – 53 Acres
Between US-64 Alternate and South Shiloh Farm Road
Princeville, Edgecombe County, NC
Terracon Project No. 72237045

Dear Mr. Smith:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with our Proposal Number P72237045, dated April 27, 2023.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Allen McColl
Project Scientist

Carl F Bonner, PE
Principal / Office Manager

Attachments

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APPENDICES

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APPENDIX B Site Photographs
APPENDIX C Historical Documentation and User Questionnaire
APPENDIX D Environmental Database Information
APPENDIX E Credentials
APPENDIX F Description of Terms and Acronyms

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P72237045, dated April 27, 2023 and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Mr. Allen McColl, Environmental Professional. Mr. McColl performed the site reconnaissance on May 2, 2023.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is located along US-64 and between US-64 Alternate and South Shiloh Farm Road in Princeville, Edgecombe County, North Carolina. Based on information provided by the client and/or the Edgecombe County GIS website, we understand the following: the site is comprised of two adjoining tracts that are Parcel Identification Numbers 474724794700 (Tract 1) and 474714756400 (Tract 2); the site totals approximately 53 acres; and the site is currently a mostly undeveloped field/recently logged land. During our site visit, Terracon observed to the site be wooded and/or overgrown with dense vegetative growth. Please note that the three tracts that comprise the site will be referred to as the "site" or "subject site" in this report unless otherwise specified.

Historical Information

Based on a review of the historical information, the site has historically been mostly undeveloped field and woodland (Tracts 1 and 2). From at least 1948 until at least 1994, areas along the south portions of Tract 1 were formerly developed with what appears to be homesteads and agricultural buildings. The site has been undeveloped since at least 1998.

The adjoining properties appear to have historically been fields, woodland, residential, a church or a cemetery. Based on our review of a prior ESA report Terracon conducted on the site in 2017, a small engine repair shop formerly operated in a garage building located on one of the western adjoining properties. US Highway 64, as a four lane highway, appears to have been constructed sometime between 1994 and 1998. Based on observations during our site visit, grave marker dates indicate the small cemetery on one of the western adjoining properties has been present since at least 1925.

Recognized Environmental Conditions (RECs) were not observed in connection with the site's historical usage or the historical usage of the adjoining properties.

Records Review

The site is not listed on the regulatory databases reviewed during the course of this ESA.

The regulatory records database revealed no off-site facilities within the ASTM required search distances.

Site Reconnaissance

The site is currently mostly undeveloped with dense overgrown vegetation across most of the site. During our site visit, Terracon observed these site characteristics: vegetative debris and one pole-mounted electrical transformer. Based on observations made during our site visit, these listed site features are not considered RECs associated with the site.

Adjoining Properties

The adjoining properties are currently undeveloped fields or woodland, residential, a pond, a church or a small cemetery. The site is adjoined to the north by undeveloped woodland and residences along Lynch Drive; to the east by South Shiloh Farm Road with undeveloped woodland across the road; to the south by US 64 Highway with a residence, FaithHouse Church (formerly Rock Church) and undeveloped fields and woodland across the highway; and to the west contiguously by a large agricultural field and wooded lot that contains a residence and detached garage, a lot containing a residence, a lot where a residence is under construction and a small cemetery followed by US 64 Alternate and railroad tracks with undeveloped woodland and a pond located across the road and railroad tracks.

Significant Data Gaps

An environmental lien search or chain-of-title back to 1980 were not provided by the client nor were searches for these documents requested to be performed by the client. Based on the site not being listed on regulatory databases and our review of available historical information showing past development on the site to be former homesteads or agricultural related structures back to at least 1948, the lack of an environment lien or chain-of-title search back to 1980 are not deemed to be a significant data gap.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at the Town of Princeville and Edgecombe County Properties site located between US-64 Alternate and South Shiloh Farm Road in Princeville, Edgecombe

County, North Carolina, the site. Recognized Environmental Conditions (RECs), Controlled RECs (CRECs) and/or Significant Data Gaps (SDGs) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs, CRECs, or SDGs in connection with the site. As such, no additional investigation is warranted at this time.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Town of Princeville Properties – 53 Acres
Site Location/Address	Between US-64 Alternate and South Shiloh Farm Road in Princeville, Edgecombe County, North Carolina
Land Area	Approximately 54-acres
Site Improvements	Site is mostly undeveloped field/recently logged land.
Anticipated Future Site Use	Redevelopment as residential and light commercial subdivision
Reason for the ESA	Site redevelopment with HUD funding

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P72237045, dated April 27, 2023 and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are

identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report was further limited due to:

- Much of site was observed to be overgrown with volunteer woodland and dense vegetative growth that inhibited our ability to assess the site.
- Historical information was not readily available for the site prior to 1948.

Based on the site appearing to have been historically used as homesteads with agricultural buildings with mostly undeveloped areas, the lack of being able to see across the majority of the site and the lack of historical information prior to 1948 does not appear to constitute a significant data gap.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of The Wooten Company. Use or reliance by any other party is prohibited without the written authorization of The Wooten Company and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report and Terracon's Master Services Agreement with The Wooten Company. The limitation of liability defined in the Master Services Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Mr. Derrick Smith, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	**Client's** Response		
		Yes	No	N/A
Specialized Knowledge or Experience that is material to a REC in connection with the site.			X	
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			X	
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.				X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			X	
Obvious Indicators of Releases at the site.			X	

N/A = Not Applicable

Mr. Smith answered "Not Applicable" for the question about purchase price question. Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 45 to 48 feet (NGVD)	USGS Topographic Map, Old Sparta, NC Quadrangle, 1981
Topographic Gradient	Gently sloping downwards towards the west.	
Closest Surface Water	An unnamed tributary of Cromwell Canal is located approximately 500 feet west of the site.	
Soil Characteristics		
Soil Type	AaA – Altavista fine sandy loam, 0 to 3 percent slopes Ro – Roanoke loam	Edgecombe County, NC, Natural Resources Conservation Service Soil Survey issued November 1979
Description	AaA – a moderately well drained soil on smooth, low ridges and flats and in shallow depressions in stream terraces. Permeability is moderate and available water capacity is medium. The seasonal high water table is approximately 1.5 to 2.5 feet below the surface. Ro – a nearly level, poorly drained soil on broad flats and in slightly depressional drainageways in stream terraces. Permeability is slow and the available water capacity is high. The seasonal high water table is at or near the surface in the lower areas.	

Geology/Hydrogeology		
Formation	Yorktown Formation and Duplin Formation, Undivided	Geologic Map of North Carolina, 1985
Description	Regionally the site is located in the middle Coastal Plain Physiographic Province. The Coastal Plain deposits consist mainly of marine and deltaic sediments, which were deposited during successive periods of fluctuating sea level and moving shoreline. The soils in this province are typical of those laid down in a shallow, sloping sea bottom. They include sands, silts and clays with irregular deposits of shells. Alluvial sands, silts and clays are typically present near rivers and creeks. The subject site is underlain by a sequence of marine sediments of Tertiary age known as the Yorktown Formation and Duplin Formation, Undivided.	
Estimated Depth to First Occurrence of Groundwater	The estimated depth to the first occurrence of groundwater is at or near the surface in the lower areas of the site.	Edgecombe County, NC, Natural Resources Conservation Service Soil Survey issued November 1979
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the west).	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps and selected historical aerial photographs (at approximately 10-to-15-year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below. The aerial photographs were obtained from the Edgecombe County Natural Resources Conservation Services (NRCS), Environmental Database Resources (EDR) and Google Earth Pro (GEP). Please note that aerial photographs were not readily available prior to 1948.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. EDR indicated that Sanborn maps were not available for the site or adjoining properties to the site.

- Topographic map:

  Quadrangle: Old Sparta, NC

  Date: 1981

  Scale: 1″:24,000′

- Aerial photographs:

  Aerial photograph provider: Edgecombe County NRCS (1948 – 1971), EDR (1982) and GEP (1994 – 2021)

  Dates: 1948, 1954, 1964, 1971, 1982, 1994, 1998, 2008, 2017 and 2021

  Scale: 1″:700′ (1948, 1954); 1″:600′ (1964, 1971); 1″:500′ (1982 – 2021)

- Sanborn Fire Insurance Maps:

  Not available for the site area.

Historical Maps and Aerial Photographs

Direction	Description
Site	Topographic Map: Development not shown; shaded white to indicate field or shaded green to indicate woodland. Aerial Photographs: Developed with several small buildings on the eastern side of the site near South Shiloh Farm Road that could be former homesteads or agricultural buildings; the other portions of the site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); undeveloped and appears to be recently cleared (2017 – 2021).
North	Topographic Map: Development not shown; shaded green to indicate woodland. Aerial Photographs: Undeveloped woodland (1948 – 1971); undeveloped woodland and developed with several small buildings in similar areas as the current residences along Lynch Drive (1994 – 2021).
East	Topographic Map: South Shiloh Farm Road with development not shown across the road. Across the road is shaded white to indicate field or green to indicate woodland. Aerial Photographs: South Shiloh Farm Road with undeveloped woodland or field across the road (1948 – 2021).
South	Topographic Map: Mostly shaded white to indicate field with a few small structures shown that could be current or former residences. US 64 is not present. Aerial Photographs: Undeveloped field (1948 – 1954); mostly undeveloped field with a few small buildings in similar locations as some of the current residences (1954 – 1971); similar to the 1954 through 1971 aerial photographs with a building with a similar shape and in a similar location as the church located further south (1994); similar to the 1994 aerial photograph with US 64 now being present (1998 – 2021).

Direction	Description
West	<u>Topographic Map:</u> Mostly shaded white to indicate field. Two small structures are shown that could be current or former residences. US 64 Alternate and railroad tracks are present with areas shaded white to indicate field across the road and tracks. <u>Aerial Photographs:</u> Mostly undeveloped field or woodland; a few small buildings are present that could be current or former residences; US 64 Alternate and the railroad tracks are present with undeveloped field across the road and tracks (1948 – 1994); similar to the 1948 through 1994 aerial photographs with woodland and a pond being present across the road and railroad tracks (1998 – 2021). Based on site observations, grave marker dates indicate the small cemetery on one of the western adjoining properties has been present since at least 1925.

3.2 Historical City Directories

The Polk city directories used in this study were made available through the Edgecombe County Memorial Library in Tarboro, NC (selected years reviewed: 1980 – 2015) and were reviewed at approximate five year intervals, if readily available. The most current city directory available was 2015. The site area was not listed in the available city directories prior to 1990. Since these references are copyright protected, reproductions are not provided in this report.

Historical City Directories

Direction	Description
Site	The site is undeveloped and not currently addressed, a historical address for the site was not identified during the course of the historical review.

Direction	Description
North	1027 through 1039 Lynch Road (odd numbers): address not listed (1980, 1985); residential listings or listed as "vacant", when listed (1990, 1995, 1999, 2004, 2010, 2015). 924 King Avenue: address not listed (1980, 1985); residential listings or listed as "vacant", when listed (1990, 1995, 1999, 2004, 2010, 2015). At least one of the other northern adjoining properties is currently undeveloped and not currently addressed, historical addresses were also not noted for the undeveloped adjoining property during the course of the city directory review.
East	The eastern adjoining properties across South Shiloh Farm Road are undeveloped and not currently addressed, a historical address for the eastern adjoining properties was not identified during the course of the historical review.
South	2127 US 64 Alternate East: address not listed (1980, 1985, 1990, 1995, 1999, 2004); residential listing (2010, 2015). 2147 US 64 Alternate East: address not listed (1980, 1985, 1990, 1995, 1999); Rock Church (2004, 2010, 2015). At least one of the other southern adjoining properties is currently undeveloped and not currently addressed, historical addresses were also not noted for the undeveloped adjoining property during the course of the city directory review.
West	1891 US 64 Alternate East: address not listed (1980, 1985, 1990, 1995, 1999); residential listing (2004, 2010, 2015). 1987 US 64 Alternate East: address not listed (1980, 1985, 1990, 1995, 1999, 2004); residential listing (2010, 2015). 2011 US 64 Alternate East: address not listed (1980, 1985, 1990, 1995, 1999, 2004, 2010, 2015). The small cemetery and at least one of the other western adjoining properties is currently undeveloped and not currently addressed, historical addresses were also not noted for the undeveloped adjoining property during the course of the city directory review.

3.3 Site Ownership

Based on a review of information obtained from the Edgecombe County GIS website, the current site owner is the Town of Princeville. Previous site owners were not listed on the Edgecombe County GIS website. On the Edgecombe County GIS website, the property descriptions for Tracts 1 and 2 is indicated as "Daughtridge/Lee Plat."

During our 2017 ESA, Tract 1 was owned by Goforth Solar, LLC and Tract 2 was owned by C.B. Daughtridge, Jr.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

Environmental lien (EL) and activity and use limitation (AUL) records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report.

3.6 Interviews Regarding Current and Historical Site Uses

A contact for the current site owners was not provided by the client and a historical interview of current site owners was not conducted. Based on information obtained through review of Terracon's previous ESA report conducted on the two larger tracts of the site in 2017 and information provided in a prior ESA by S&ME conducted in 2019, the site has been historically utilized as a homestead with agricultural buildings or been undeveloped. Based on the historical information available in the 2017 and 2019 ESAs, the lack of a historical interview with the current property owners is not considered a significant data gap.

3.7 Prior Report Review

The client provided a Phase I ESA report from 2019 that was conducted by S&ME. This report was reviewed by Terracon during the course of this current Phase I ESA report and is discussed further below in this section of the report.

Terracon also conducted a prior Phase I ESA for the two larger tracts of the site in 2017. Terracon reviewed our prior 2017 Phase I ESA during the course of this current Phase I ESA report and information reviewed in our 2017 ESA report is also further discussed below in this section of the report.

- Report Name: Phase I ESA

  Site Name: Daughtridge and Goforth Solar LLC Tracts
  Site Address: Intersection of US 64 and US 64 Alternate
  Report Dated: June 14, 2017
  Prepared by: Terracon Consultants, Inc
  For: North Carolina Department of Administration

The Terracon 2017 Phase I ESA reported the site to consist of two adjoining tracts totaling approximately 53 acres.

In 2017, the site was reported as being undeveloped that had recently been cleared and was overgrown with dense vegetative growth with stumps, logs and tree limbs covering most of these two tracts.

Historical information suggested that the site was historically developed with a few homesteads and/or agricultural structures from at least 1948 until at least 1994 and that the site was undeveloped after at least 1998. The 2017 ESA also indicated that US Highway 64, that is currently extends along a southern portion of the site, was constructed sometime between 1994 and 1998.

The site or neighboring properties to the site were not identified on regulatory databases during the 2017 ESA.

During the historical interview with the property owner at the time of the 2017 ESA, Mr. C.B. Daughtridge Jr., the detached garage on one of the western adjoining properties was indicated as formerly being operated as a small engine repair shop.

RECs were not indicated to be associated with the site during the 2017 ESA.

- Report Name: Phase I ESA

  Site Name: Edgecombe County, Princeville 53 Acre Site
  Site Address: US 64 Alternate
  Report Dated: June 6, 2019
  Prepared by: S&ME
  For: Edgecombe County and Town of Princeville

The S&ME 2019 Phase I ESA was conducted on three adjoining tracts totaling approximately 54 acres. Two of the tracts are the two large tracts that comprise the current site. In addition, the small cemetery western adjoining tract was included as part of S&ME's site area during their 2019 ESA. In 2019, the site was indicated as being undeveloped and heavily overgrown with dense vegetation with a small cemetery on the additional smaller tract.

S&ME had similar findings with site history being undeveloped and former homesteads and/or agricultural buildings and no regulatory database listings for the site and adjoining properties.

S&ME reportedly subcontracted with a clearing company to clear paths through portions of the site in 2019. After paths were cleared, S&ME observed a few dilapidated structures, foundations and/or building material debris piles along portions of the southeastern portions of the site that were thought to be parts of former homesteads or agricultural buildings. S&ME also observed scrap metal debris, broken concrete debris, an old bathtub and remnants of a small pesticide storage container on the site. S&ME also observed a metal aboveground storage tank that they indicated as corroded and contained several holes on what would be the bottom of the tank. S&ME indicated that there was no evidence of liquids remaining in the tank and that they did not observe staining on or around the tank. S&ME also suggested that the tank may have been buried at some point due to corrosion observed on the tank.

S&ME did not identify RECs to be associated with the site during the 2019 ESA.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company in a report dated April 28, 2023. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously,

the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned	0.5	0
ERNS	Emergency Response Notification System	Site	0
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	0
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
Brownfields	Brownfields Projects Inventory	0.5	0
DRYCLEANERS	Dry-cleaning Sites	0.25	0
HSDS	Hazardous Substance Disposal Sites	1	0
IC	Institutional Controls Sites	Site	0
IMD	Incident Management Database	0.5	0
LUST	Leaking Underground Storage Tanks	0.5	0
SHWS	State Hazardous Waste Site	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	Site and adjoining properties	0
VCP	Voluntary Cleanup Program	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report in Appendix D.

The site is not listed on the environmental regulatory database report. The regulatory database revealed no offsite facilities within the ASTM required search distances.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list unmapped or orphaned facilities in the unmapped section.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Edgecombe County Environmental Health Department / by phone: 252-641-7573	According to the Edgecombe County Environmental Health Department, other than septic tank violations and restaurant violations, they do not keep records of environmental concerns and suggested that we contact the North Carolina Department of Environmental Quality (NCDEQ) for the records we are requesting.
Princeville Volunteer Fire Department / by phone: 252-823-8115	The Princeville Volunteer Fire Department was contacted in regard to reported fires or spills at the site. At the issuance of this report, a response has not been received from this agency.
Edgecombe County Planning and Inspections Department / by phone: 252-641-7802	The Edgecombe County Planning and Inspections Department was contacted regarding environmental records for the site. According to representatives of this agency, no liens, use restrictions or environmental records are on file at their agency for the site and they suggested we contact NCDEQ to ascertain whether environmental issues have been reported in the site area.
NCDEQ Washington Regional Office / by phone: 252-946-6481	Terracon contacted NCDEQ about the site and about reported incidents on the adjoining properties. According to NCDEQ, the site or its adjoining properties do not appear on their regulatory databases based on current addresses and/or locations.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Allen McColl
Reconnaissance Date	May 2, 2023
Weather Conditions	70 ° / Sunny
Site Contact/Title	Not Provided
Site Utilities	
Drinking Water	Not currently utilized onsite, availability of this utility was not verified.
Wastewater	Not currently utilized onsite, availability of this utility was not verified.

5.2 Overview of Current Site Occupants

The site is located along US-64 and between US-64 Alternate and South Shiloh Farm Road in Princeville, Edgecombe County, North Carolina. Based on information provided by the client and/or the Edgecombe County GIS website, we understand the following: the site is comprised of three adjoining tracts that are Parcel Identification Numbers 474724794700 (Tract 1), 474714756400 (Tract 2); the site totals approximately 54 acres; and the site is currently a mostly undeveloped field/recently logged land. During our site visit, Terracon observed to the site be wooded and/or overgrown with dense vegetative growth.

5.3 Overview of Current Site Operations

Site is currently unoccupied and undeveloped woodland and/or overgrown with dense vegetative growth.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels, and/or containers ≥ 5 gallons	
	MSDS or SDS	

Category	Item or Feature	Observed or Identified
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	

Electrical Transformers/ PCBs

Transformers and/or capacitors

One pole-mounted electrical transformer was observed near Tract 2 along US 64 Alternate. Staining was not observed in the area of the electrical transformer that would indicate a release.

Other Notable Site Features

Surface water bodies

Several areas of standing water and water in drainage ditches across portions of the site were observed. Sheens were not observed on the surface waters and noxious odors were not noted to be emanating in areas where surface water was observed.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	1027 through 1039 Lynch Road (odd numbers): residences 924 King Avenue: residences Not currently addressed: an undeveloped wooded lot
East	Not currently addressed: two undeveloped wooded lots
South	1987 US 64 Alternate East: a residence 2127 US 64 Alternate East: a residence 2147 US 64 Alternate East: FaithHouse Church(formerly Rock Church) Not currently addressed: undeveloped woodland or undeveloped field
West	1891 US 64 Alternate East: a residence, a garage and undeveloped field and woodland 1987 US 64 Alternate East: a residence 2011 US 64 Alternate East: a residence currently under construction Not currently addressed: a small cemetery Not currently addressed: undeveloped woodland and a pond

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 DECLARATION

I, Allen McColl, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

_____

Allen McColl

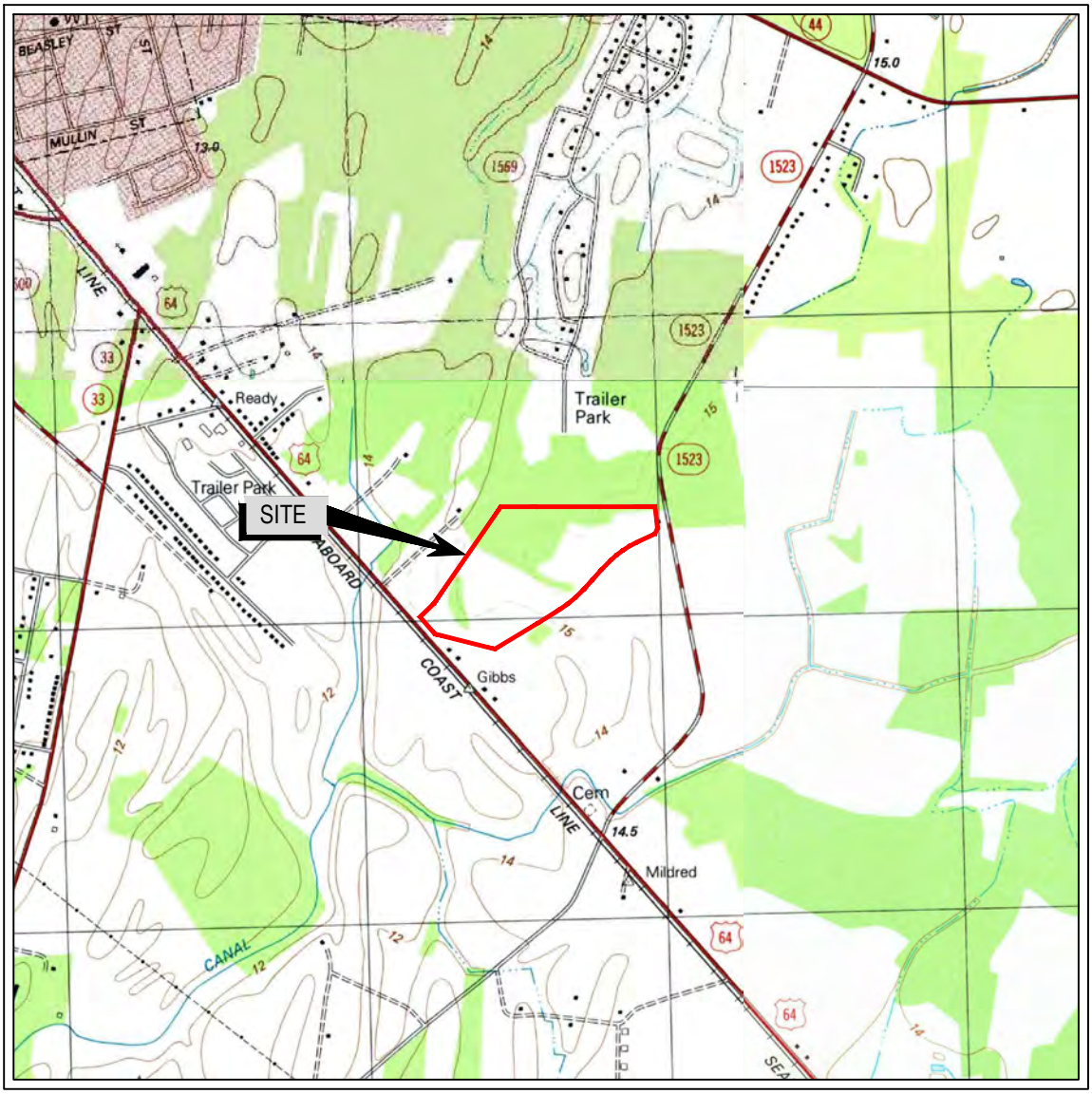
Environmental Professional

APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM

UNITED STATES — DEPARTMENT OF THE INTERIOR — GEOLOGICAL SURVEY



SCALE 1:24 000

KILOMETERS: 1 .5 0 1 2

METERS: 1000 0 1000 2000

MILES: 1 .5 0 1

FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

CONTOUR INTERVAL 2 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

QUADRANGLE

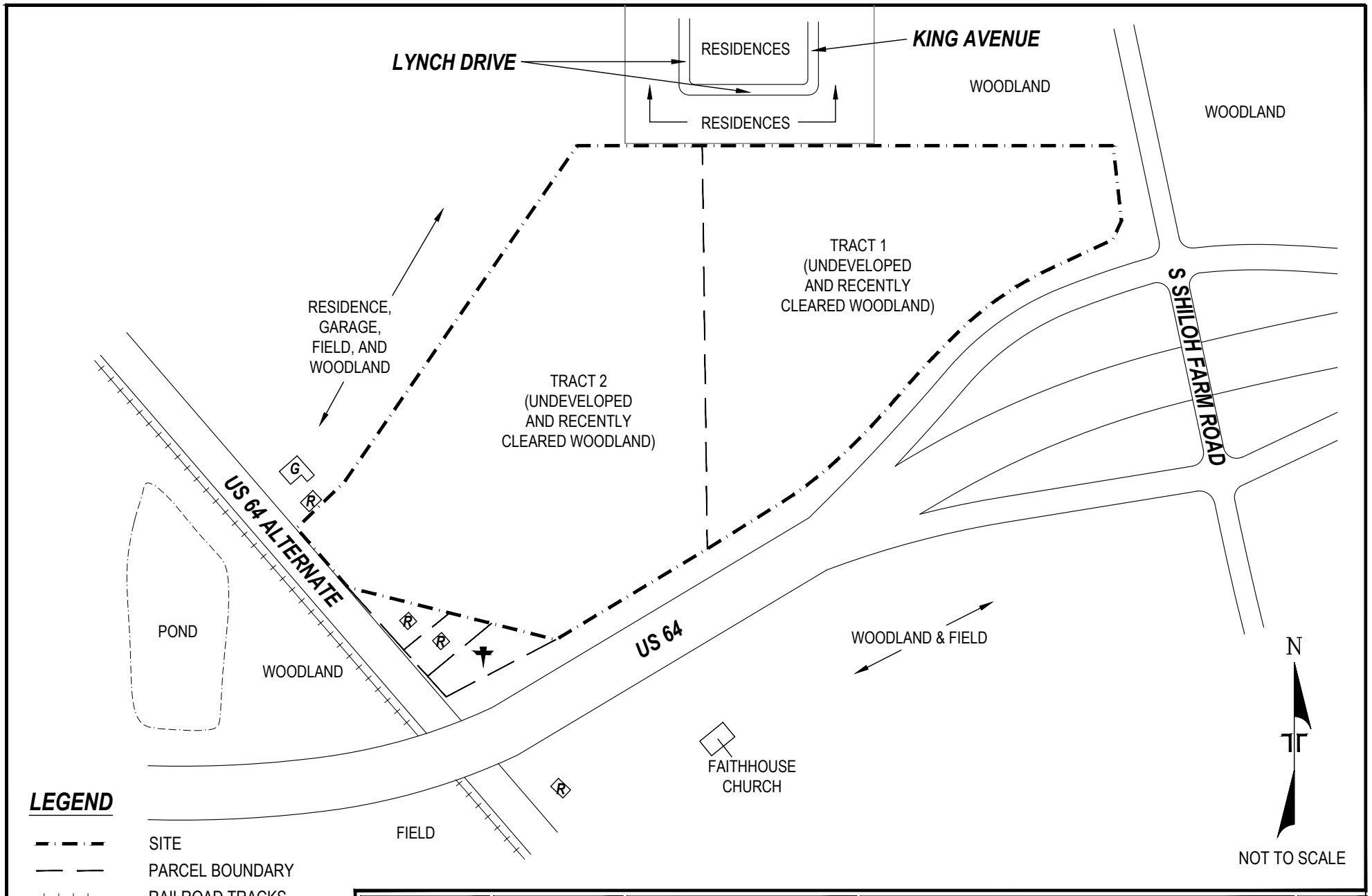
TARBORO, NC 1981; SPEED, NC 1981 PI 1988

*OLD SPARTA, NC 1981; CONETOE, NC 1981

7.5 MINUTE SERIES (TOPOGRAPHIC)

*INDICATES WHICH MAP SITE IS LOCATED ON

Project Mngr: KAM	Project No. 72237045	Terracon	TOPOGRAPHIC VICINITY MAP	EXHIBIT
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT TOWN OF PRINCEVILLE PROPERTIES BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA	1
Checked By: MRF/KAM	File No. ESA72237045-1			
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002		



LEGEND

- SITE
- PARCEL BOUNDARY
- RAILROAD TRACKS
- R RESIDENCE
- G GARAGE
- CEMETERY

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr: KAM	Project No. 72237045	Terracon	SITE DIAGRAM
Drawn By: SEG	Scale: AS SHOWN	314 Beacon Drive Winterville, NC 28590	PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-2	(252) 353-1600 (252) 353-0002	TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023		BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD
			PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT 2

APPENDIX B

SITE PHOTOGRAPHS

Photo 1 Near South Shiloh Farm Road and the eastern side of the site, looking west across the site.

Photo 2 A view of the southeastern corner of the site and showing a powerline easement that extends across the eastern side of the site. A ramp for US Highway 64 is in the background of this photo. Cardboard box debris was noted and is slightly visible in this photo at the top of the ramp.

Photo 3 A typical view across the eastern interior of the site showing dense vegetative overgrowth that was observed across the majority of the site.

Photo 4 One of several areas noted of standing water or surface water on the site. This photo is of one of several drainage ditches observed onsite.

Photo 5 Another typical view of the interior of the site.

Photo 6 Another view of the interior of the site.

Photo 7 From US 64 Alternate or the western side of the site, looking east across the western larger side of the site.

Photo 8 From US 64 Alternate, looking east across the cemetery located on one of the western adjoining properties to the site.

Photo 9 A closer view of concrete grave markers in the cemetery on one of the western adjoining properties.

Photo 10 A headstone observed in the cemetery on one of the western adjoining properties.

Photo 11 A few metal grave markers observed at the rear (or eastern) side of the cemetery that adjoins the site.

Photo 12 A typical view of the wooded area on or near the cemetery property.

Photo 13 Woodland and dense vegetative overgrowth on one of the northern adjoining properties along South Shiloh Farm Road. Residences visible in the background of this photo are along Lynch Drive and located on another northern adjoining property.

Photo 15 A typical view of residences along Lynch Drive on portions of the northern adjoining properties.

Photo 16 Another typical view of residences along Lynch Drive on portions of the northern adjoining properties.

Photo 17 Looking east across South Shiloh Farm Road at undeveloped woodland on the eastern adjoining property across the road.

Photo 18 Field and woodland on one of the southern adjoining properties across US Highway 64.

Photo 19 A residence on another southern adjoining property across US Highway 64.

Photo 20 A church on another southern adjoining property across US Highway 64.

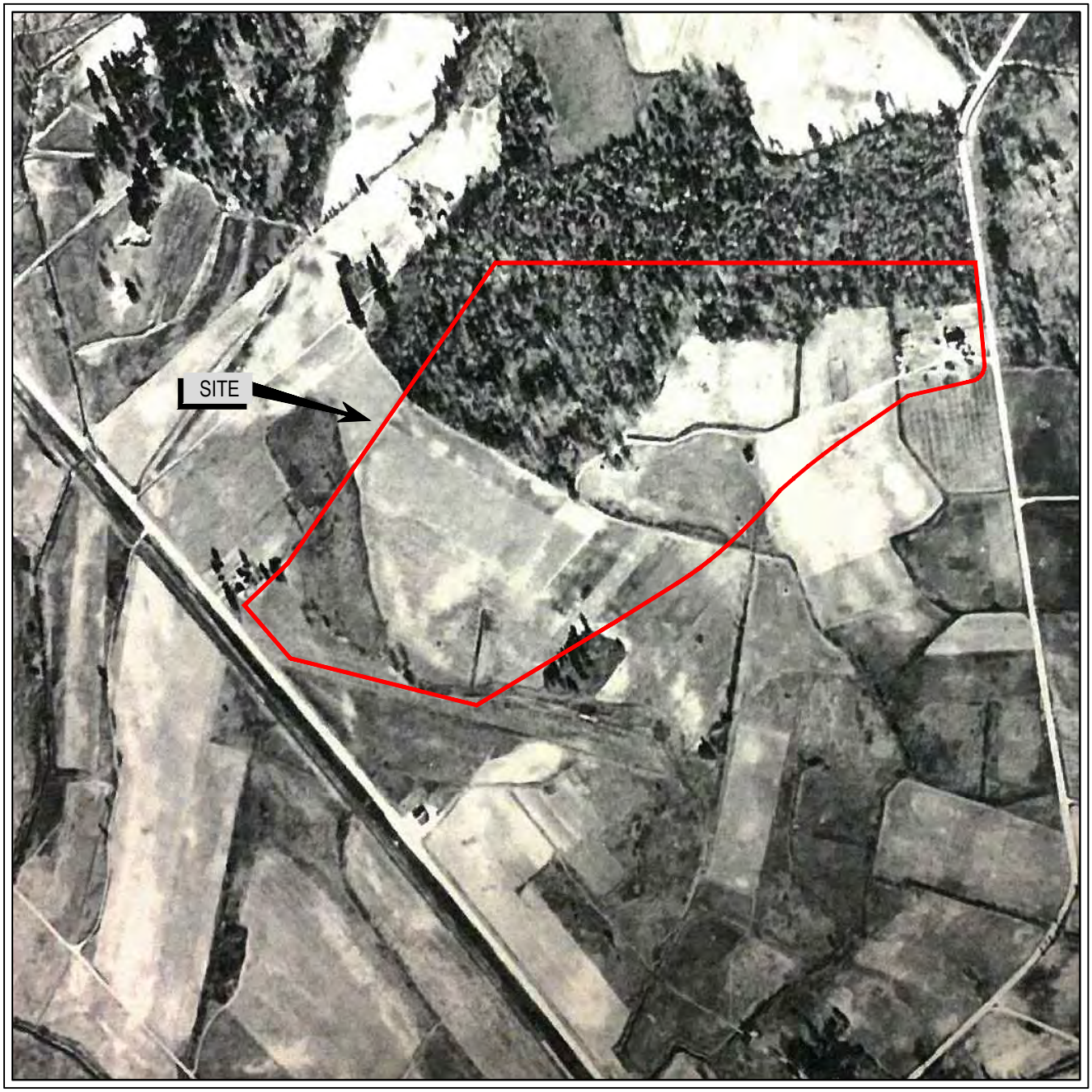
Photo 21 A residence and garage along US 64 Alternate on one of the western adjoining properties.

Photo 22 A residence under construction (left), woodland (background) and a residence (right) on the western adjoining property on the east side of Highway 64 Alternate.

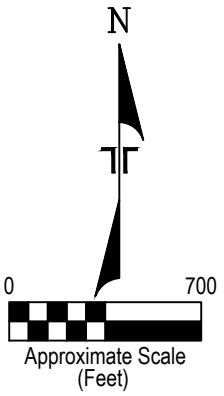
Photo 23 Woodland and railroad tracks on the western adjoining property across Highway 64 Alternate.

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

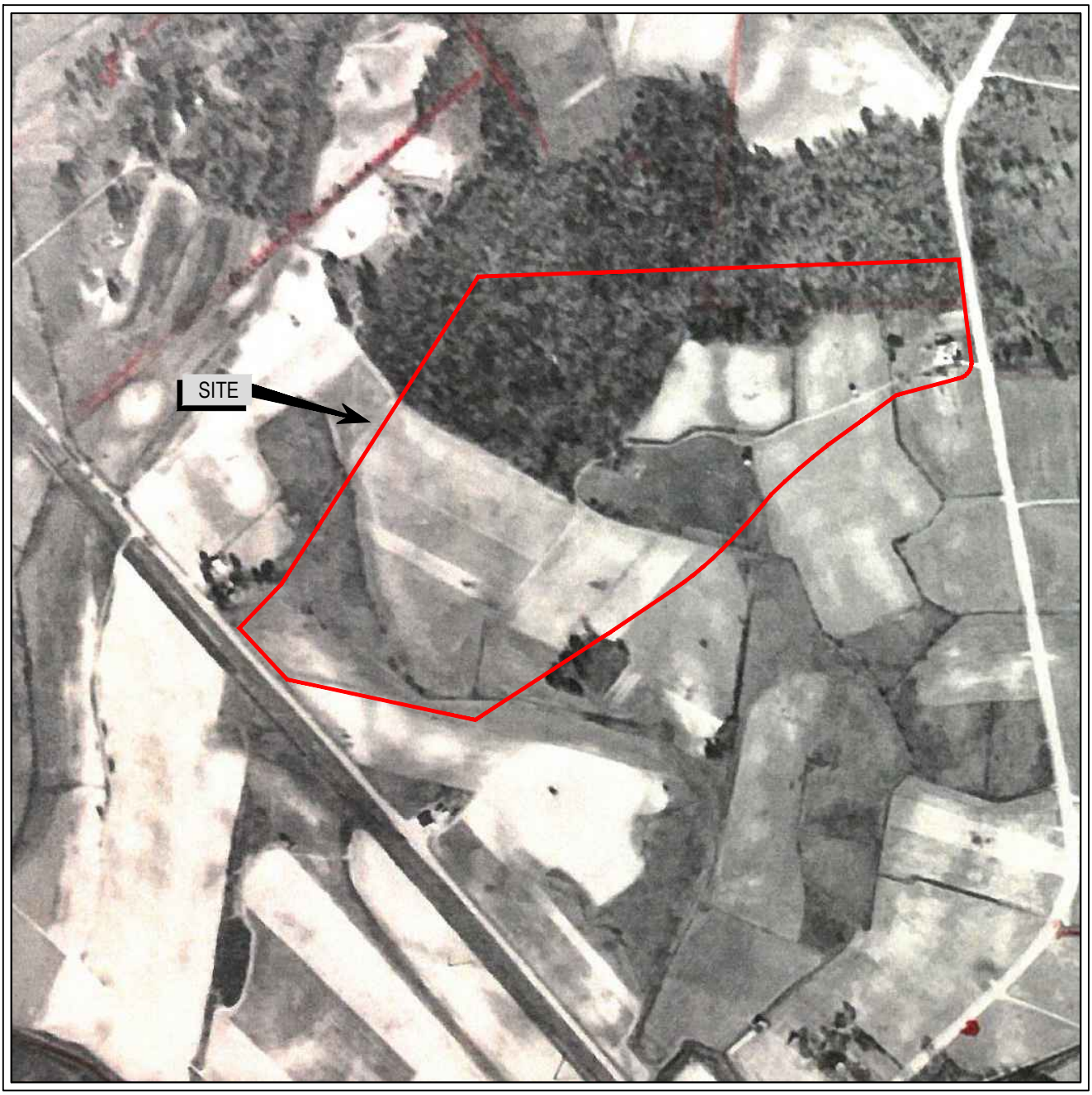


1948 AERIAL PHOTOGRAPH



* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH	EXHIBIT
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT TOWN OF PRINCEVILLE PROPERTIES BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA	1948
Checked By: MRF/KAM	File No. ESA7223704 5-1948			
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002		



1954 AERIAL PHOTOGRAPH

N

0 700

Approximate Scale (Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-1954		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

1954

1964 AERIAL PHOTOGRAPH

N

0 600

Approximate Scale (Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH	EXHIBIT
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT	
Checked By: MRF/KAM	File No. ESA72237045-1964		TOWN OF PRINCEVILLE PROPERTIES	
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA	1964

1971 AERIAL PHOTOGRAPH

N

0 600

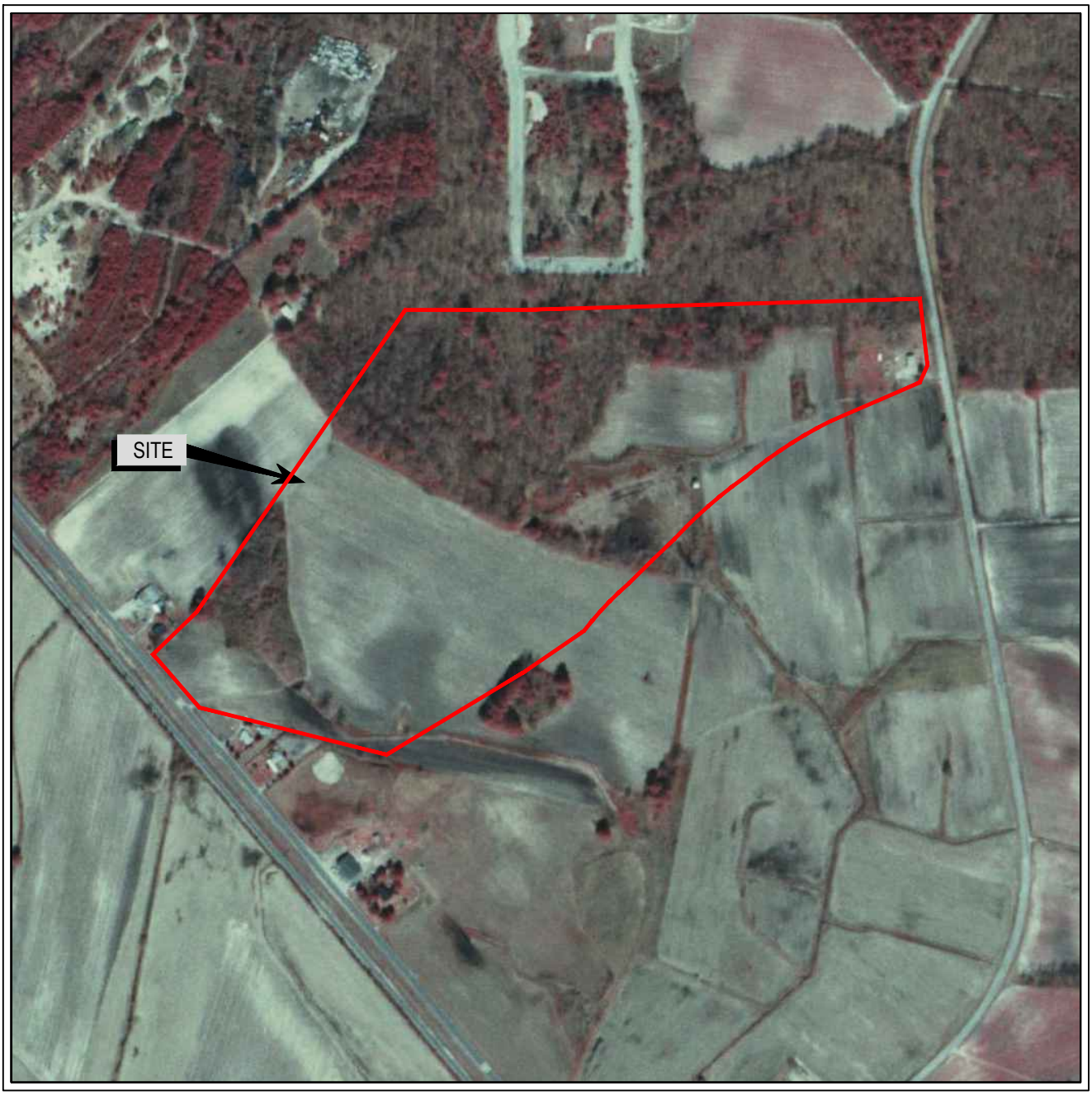
Approximate Scale (Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-1971		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

1971



1982 AERIAL PHOTOGRAPH

N

0 600

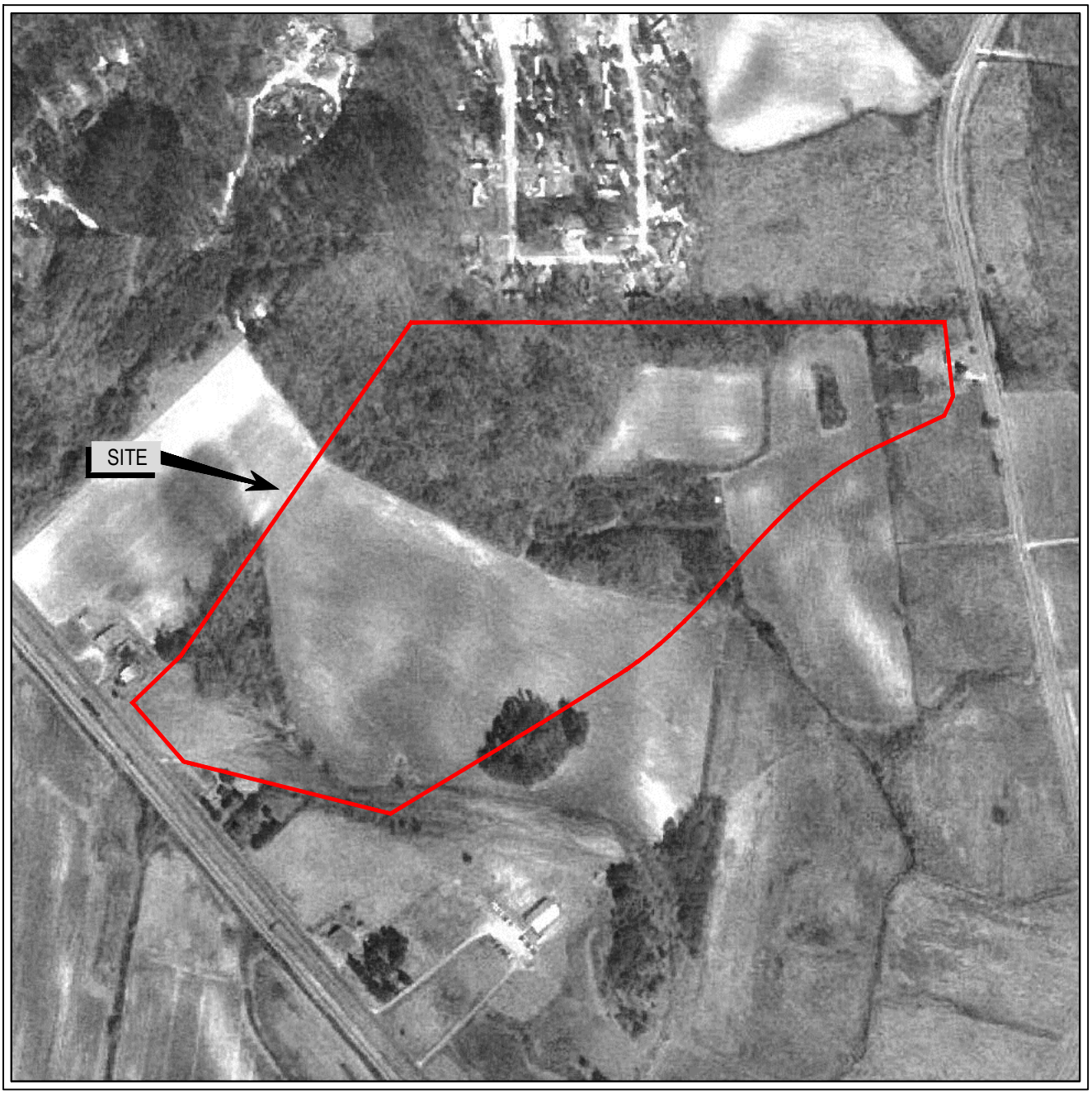
Approximate Scale
(Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-1982		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

1982



1994 AERIAL PHOTOGRAPH

N

0 500

Approximate Scale
(Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-1994		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

1994

1998 AERIAL PHOTOGRAPH

N

0 500

Approximate Scale
(Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH	EXHIBIT
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT	
Checked By: MRF/KAM	File No. ESA72237045-1998		TOWN OF PRINCEVILLE PROPERTIES	
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD	1998
			PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA	

2008 AERIAL PHOTOGRAPH

N

0 500

Approximate Scale
(Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-2008		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

2008

2017 AERIAL PHOTOGRAPH

N

0 500

Approximate Scale (Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH	EXHIBIT
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT	
Checked By: MRF/KAM	File No. ESA72237045-2017		TOWN OF PRINCEVILLE PROPERTIES	
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA	2017

2021 AERIAL PHOTOGRAPH

N

0 500

Approximate Scale (Feet)

* SITE BOUNDARIES ARE APPROXIMATE

Project Mngr: KAM	Project No. 72237045	Terracon	AERIAL PHOTOGRAPH
Drawn By: SEG	Scale: AS SHOWN		PHASE I ENVIRONMENTAL SITE ASSESSMENT
Checked By: MRF/KAM	File No. ESA72237045-2021		TOWN OF PRINCEVILLE PROPERTIES
Approved By: CB	Date: MAY 2023	314 Beacon Drive Winterville, NC 28590 (252) 353-1600 (252) 353-0002	BETWEEN US-64 ALTERNATE AND SHILOH FARM ROAD PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

EXHIBIT

2021

Town of Princeville and Edgecombe County Propertie

US-64 Alt and South Shiloh Farm Road

Tarboro, NC 27886

Inquiry Number: 7322665.3

April 28, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/28/23

Site Name:	Client Name:
Town of Princeville and Edgecc	Terracon
US-64 Alt and South Shiloh Fa	314 Beacon Drive
Tarboro, NC 27886	Winterville, NC 28590
EDR Inquiry # 7322665.3	Contact: Allen Mccoll

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Terracon were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 53F5-4DE6-A547

PO # 72237045

Project Princeville and EC Properties

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 53F5-4DE6-A547

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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ASTM E1527-21 User Questionnaire

terracon

Date Completed	9/28/23
Person Completing Questionnaire	Name: DERRICK SMITH Phone: 252 757 1096 Company: TLX Email: dsmith@thelocktencompany.com
Site Name	**Town of Princeville and Edgecombe County Properties – 3 Tracts**
Site Address	**Between US-64 Alternate and South Shiloh Road, Princeville, Edgecombe County, NC**
Point of Contact for Access	Name: SAME AS ABOVE Phone: Company: Email:
Access Restrictions or Special Site Requirements?	✓ No ___Yes (If yes, please explain)
Confidentiality Requirements?	✓ No ___Yes (If yes, please explain)
Current Site Owner	Name: TOWN OF PRINCEVILLE Phone: Company: Email:
Current Site Operator	Name: TOWN OF PRINCEVILLE Phone: Company: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	DEVELOPMENT WITH HUD FUNDING
Anticipated Future Site Use	RESIDENTIAL & LIGHT COMMERCIAL
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.

ASTM User Questionnaire

To qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the user must respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate* inquiries" is not complete.

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?

✓ No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?

✓ No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?

✓ No ___Yes (If yes, explain below)

4) Does the purchase price being paid for this site reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site?

___No ___Yes ✓ Not applicable (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?

✓ No ___Yes (If yes, explain below)

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?

✓ No ___Yes (If yes, explain below)

Comments or explanations:

Please return this form with the signed authorization to proceed.

Proposal No. P72237045

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

Town of Princeville and Edgecombe County Propertie
US-64 Alt and South Shiloh Farm Road
Tarboro, NC 27886

Inquiry Number: 7322665.2s
April 28, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	9
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

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Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-14
Physical Setting Source Map Findings	A-16
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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MAPPED SITES SUMMARY

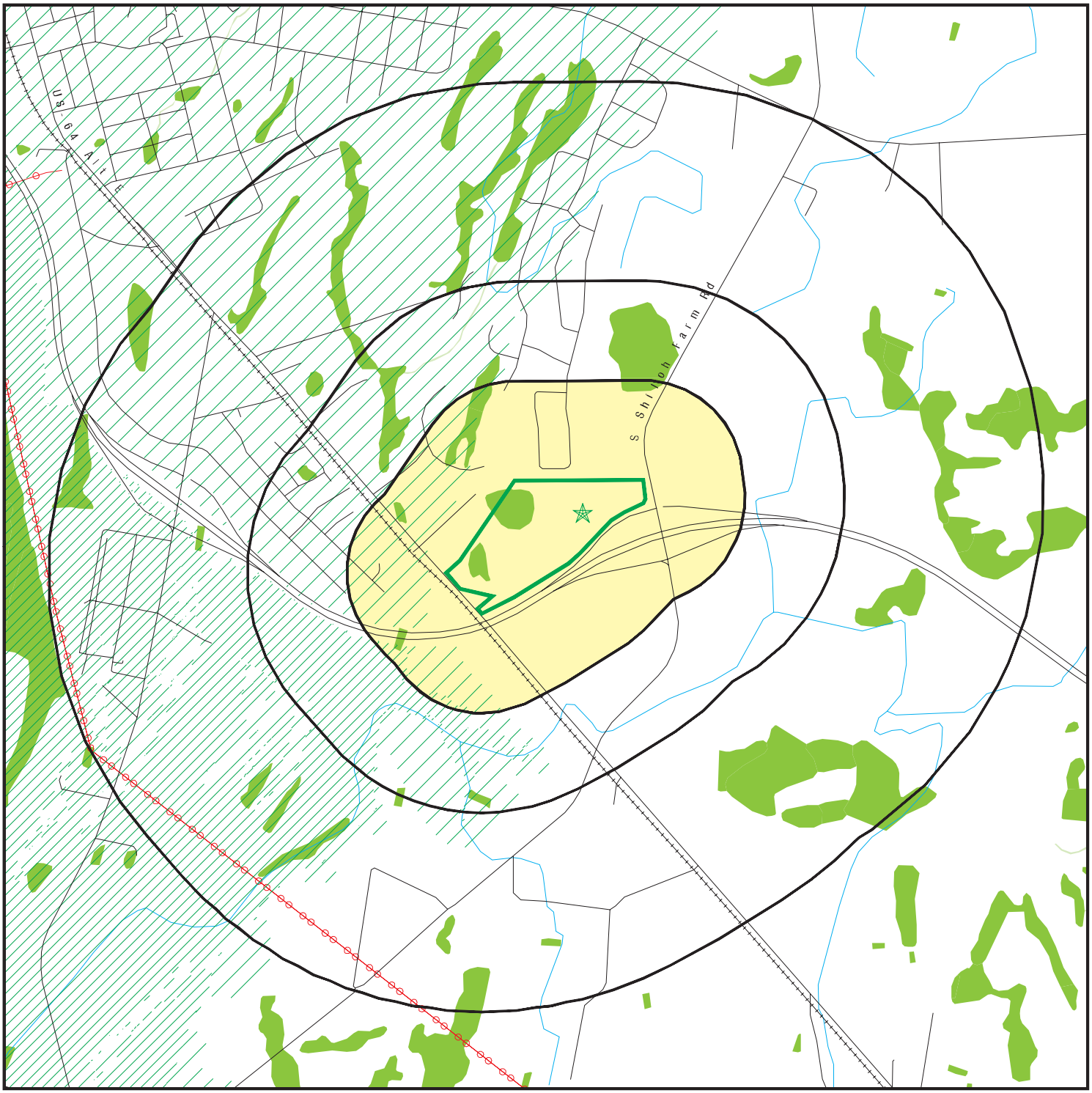
Target Property Address:
US-64 ALT AND SOUTH SHILOH FARM ROAD
TARBORO, NC 27886

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

OVERVIEW MAP - 7322665.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

0 1/4 1/2 1 Miles

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Town of Princeville and Edgecombe County Propertie	CLIENT:	Terracon
ADDRESS:	US-64 Alt and South Shiloh Farm Road Tarboro NC 27886	CONTACT:	Allen Mccoll
		INQUIRY #:	7322665.2s
LAT/LONG:	35.870182 / 77.505561	DATE:	April 28, 2023 5:18 pm

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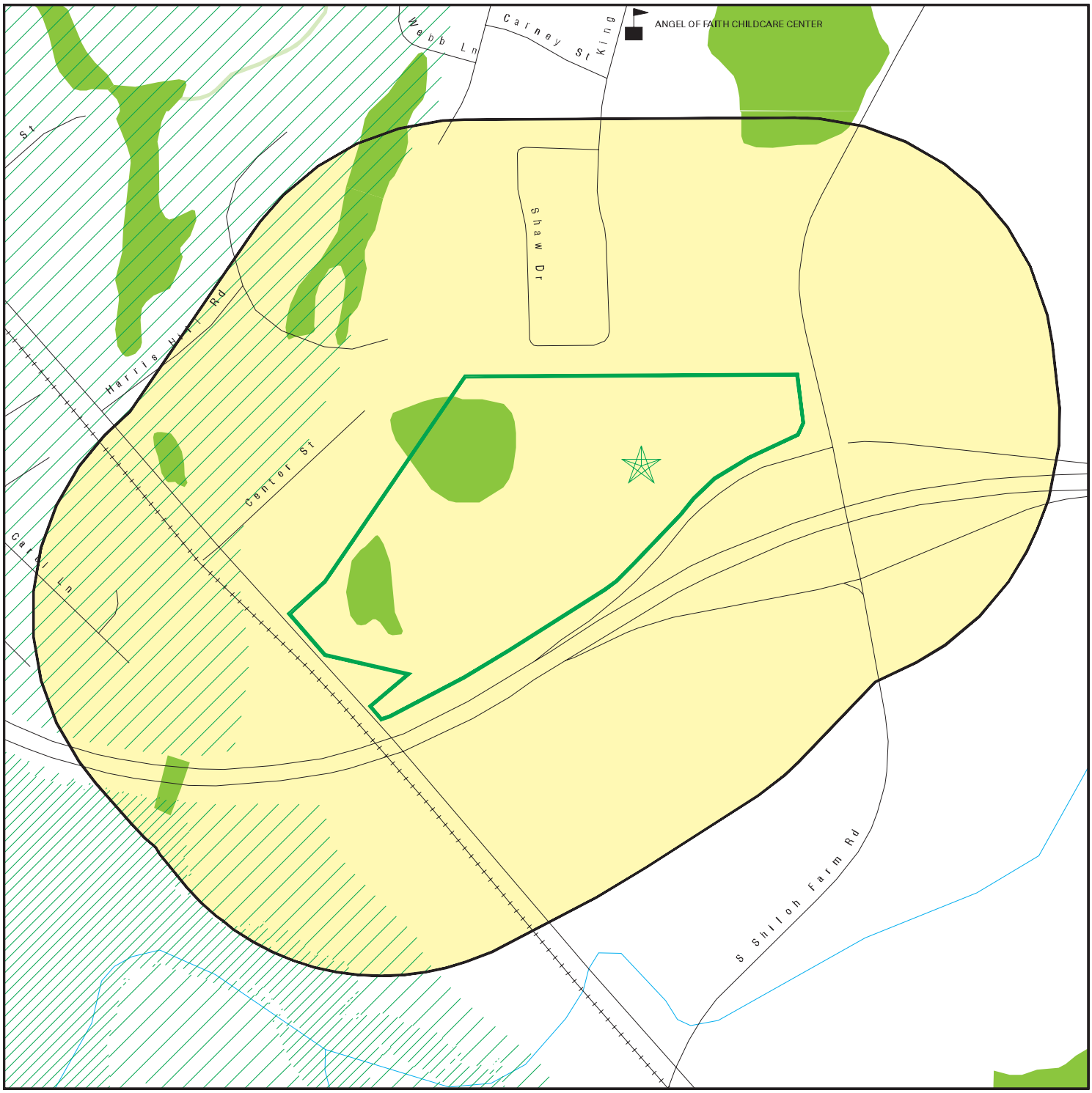
DETAIL MAP - 7322665.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Town of Princeville and Edgecombe County Propertie	CLIENT:	Terracon
ADDRESS:	US-64 Alt and South Shiloh Farm Road Tarboro NC 27886	CONTACT:	Allen Mccoll
		INQUIRY #:	7322665.2s
LAT/LONG:	35.870182 / 77.505561	DATE:	April 28, 2023 5:18 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
NC HSDS	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
OLI	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
LCID	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	TP		NR	NR	NR	NR	NR	0
IMD	0.500		0	0	0	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
AOP	TP		NR	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
CCB	0.500		0	0	0	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
PCSRP	0.500		0	0	0	NR	NR	0
SEPT HAULERS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
NC	AIRS	Air Quality Permit Listing	Department of Environmental Quality	12/04/2022	12/05/2022	02/24/2023
NC	AOP	Animal Operation Permits Listing	Department of Environmental Quality	04/01/2020	05/26/2020	05/27/2020
NC	ASBESTOS	ASBESTOS	Department of Health & Human Services	04/30/2022	05/17/2022	08/08/2022
NC	AST	AST Database	Department of Environment and Natural Resourc	11/22/2022	12/07/2022	02/24/2023
NC	BROWNFIELDS	Brownfields Projects Inventory	Department of Environment and Natural Resourc	12/01/2022	12/22/2022	03/15/2023
NC	CCB	Coal Ash Structural Fills (CCB) Listing	Department of Environmental Quality	05/10/2021	07/02/2021	09/27/2021
NC	COAL ASH	Coal Ash Disposal Sites	Department of Environment & Natural Resources	12/15/2022	12/19/2022	03/15/2023
NC	DEBRIS	Solid Waste Active Disaster Debris Sites Listing	Department of Environmental Quality	12/09/2022	12/09/2022	03/02/2023
NC	DRYCLEANERS	Drycleaning Sites	Department of Environment & Natural Resources	12/06/2021	12/13/2021	02/25/2022
NC	Financial Assurance 1	Financial Assurance Information Listing	Department of Environment & Natural Resources	10/28/2022	10/31/2022	01/19/2023
NC	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental & Natural Resourc	10/02/2012	10/03/2012	10/26/2012
NC	Financial Assurance 3	Financial Assurance Information	Department of Environment & Natural Resources	12/01/2022	12/01/2022	02/17/2023
NC	HIST LF	Solid Waste Facility Listing	Department of Environment & Natural Resource	11/06/2006	02/13/2007	03/02/2007
NC	HSDS	Hazardous Substance Disposal Site	North Carolina Center for Geographic Informat	08/09/2011	11/08/2011	12/05/2011
NC	IMD	Incident Management Database	Department of Environment and Natural Resourc	01/13/2023	01/20/2023	04/06/2023
NC	INST CONTROL	No Further Action Sites With Land Use Restrictions Monitorin	Department of Environmental Quality	11/20/2022	12/06/2022	02/24/2023
NC	LAST	Leaking Aboveground Storage Tanks	Department of Environment & Natural Resources	01/27/2023	02/01/2023	04/24/2023
NC	LCID	Land-Clearing and Inert Debris (LCID) Landfill Notifications	Department of Environmental Quality	08/09/2022	10/03/2022	12/16/2022
NC	LUST	Regional UST Database	Department of Environment and Natural Resourc	01/13/2023	01/20/2023	01/23/2023
NC	NPDES	NPDES Facility Location Listing	Department of Environment & Natural Resources	12/01/2022	01/25/2023	02/15/2023
NC	OLI	Old Landfill Inventory	Department of Environment & Natural Resources	07/05/2022	10/05/2022	12/21/2022
NC	PCSRP	Petroleum-Contaminated Soil Remediation Permits	Department of Environmental Quality	08/18/2022	10/03/2022	12/16/2022
NC	PFAS	PFAS Contamination Site Listing	Department of Environmental Quality	05/18/2022	05/18/2022	08/08/2022
NC	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environment, Health and Natural		07/01/2013	12/24/2013
NC	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environment, Health and Natural		07/01/2013	01/13/2014
NC	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environment, Health and Natural		07/01/2013	12/20/2013
NC	SEPT HAULERS	Permitted Septage Haulers Listing	Department of Environmental Quality	01/17/2023	01/18/2023	04/06/2023
NC	SHWS	Inactive Hazardous Sites Inventory	Department of Environment, Health and Natural	11/20/2022	12/06/2022	02/24/2023
NC	SPILLS	Spills Incident Listing	Department of Environment & Natural Resources	12/22/2022	01/04/2023	03/21/2023
NC	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	06/14/2001	01/03/2013	03/06/2013
NC	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	09/27/2012	01/03/2013	03/06/2013
NC	SWF/LF	List of Solid Waste Facilities	Department of Environment and Natural Resourc	12/15/2022	12/19/2022	03/15/2023
NC	SWRCY	Recycling Center Listing	Department of Environment & Natural Resources	01/31/2022	02/02/2022	04/29/2022
NC	UIC	Underground Injection Wells Listing	Department of Environment & Natural Resources	02/22/2022	03/01/2022	05/27/2022
NC	UST	Petroleum Underground Storage Tank Database	Department of Environment and Natural Resourc	01/27/2023	02/01/2023	04/24/2023
NC	VCP	Responsible Party Voluntary Action Sites	Department of Environment and Natural Resourc	11/20/2022	12/06/2022	02/24/2023
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2022	12/20/2022	03/10/2023
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	01/02/2023	01/05/2023	04/03/2023
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2020	11/30/2021	02/22/2022
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2022	01/12/2023	04/07/2023
US	CORRACTS	Corrective Action Report	EPA	03/06/2023	03/09/2023	03/20/2023
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	01/25/2023	02/02/2023	02/28/2023
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/01/2023	01/04/2023	04/03/2023
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/12/2022	12/14/2022	12/19/2022
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/20/2022	12/21/2022	03/10/2023
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	10/14/2021	11/05/2021	02/01/2022
US	FINDS	Facility Index System/Facility Registry System	EPA	02/02/2023	02/28/2023	03/24/2023
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	11/01/2022	11/10/2022	02/09/2023
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/13/2023	02/14/2023	04/19/2023
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	07/26/2021	07/27/2021	10/22/2021
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/13/2022	12/14/2022	03/10/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/23/2022	12/06/2022	04/19/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/26/2022	12/06/2022	03/03/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	11/23/2022	12/06/2022	03/03/2023
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/23/2022	12/06/2022	04/19/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/23/2022	12/06/2022	03/03/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	LUCIS	Land Use Control Information System	Department of the Navy	11/02/2022	11/08/2022	01/10/2023
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/27/2023	03/01/2023	03/24/2023
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/26/2022	11/22/2022	12/05/2022
US	NPL	National Priority List	EPA	01/25/2023	02/03/2023	02/28/2023
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/03/2022	01/04/2023	04/03/2023
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	02/23/2022	07/08/2022	11/08/2022
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2023	03/07/2023	03/24/2023
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PRP	Potentially Responsible Parties	EPA	10/27/2022	11/01/2022	11/15/2022
US	Proposed NPL	Proposed National Priority List Sites	EPA	01/25/2023	02/02/2023	02/28/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	ROD	Records Of Decision	EPA	01/25/2023	02/02/2023	02/28/2023
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	SEMS	Superfund Enterprise Management System	EPA	01/25/2023	02/02/2023	02/28/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/25/2023	02/02/2023	02/28/2023
US	SSTS	Section 7 Tracking Systems	EPA	01/17/2023	01/18/2023	04/19/2023
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	11/01/2022	02/09/2023
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	04/06/2023	04/13/2023	04/19/2023
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/13/2022	12/14/2022	03/10/2023
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/07/2022	11/17/2022	02/10/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	11/16/2022	11/16/2022	02/06/2023
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	10/29/2021	01/19/2022
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2020	11/30/2021	02/18/2022
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
NC	Daycare Centers	Sensitive Receptor: Child Care Facility List	Department of Health & Human Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
NC	State Wetlands	Wetland Inventory	US Fish & Wildlife Service			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TOWN OF PRINCEVILLE AND EDGECOMBE COUNTY PROPERTIE
US-64 ALT AND SOUTH SHILOH FARM ROAD
TARBORO, NC 27886

TARGET PROPERTY COORDINATES

Latitude (North):	35.870182 - 35˚ 52’ 12.66’’
Longitude (West):	77.505561 - 77˚ 30’ 20.02’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	273782.1
UTM Y (Meters):	3972249.2
Elevation:	47 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	13720788 OLD SPARTA, NC
Version Date:	2019
Northeast Map:	13720816 SPEED, NC
Version Date:	2019
Southeast Map:	13720722 CONETOE, NC
Version Date:	2019
Northwest Map:	13720822 TARBORO, NC
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

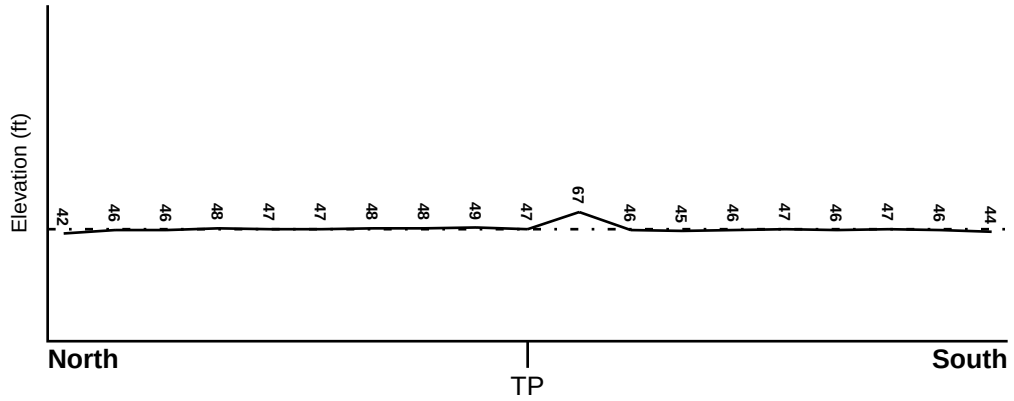
TOPOGRAPHIC INFORMATION

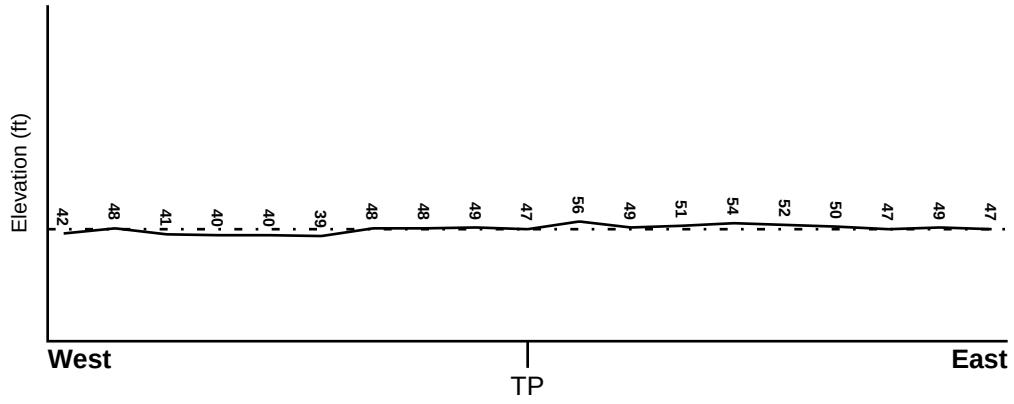
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

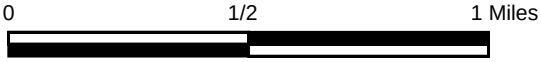
General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 47 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3720474600J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3720474800K	FEMA FIRM Flood data
3720473700J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OLD SPARTA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

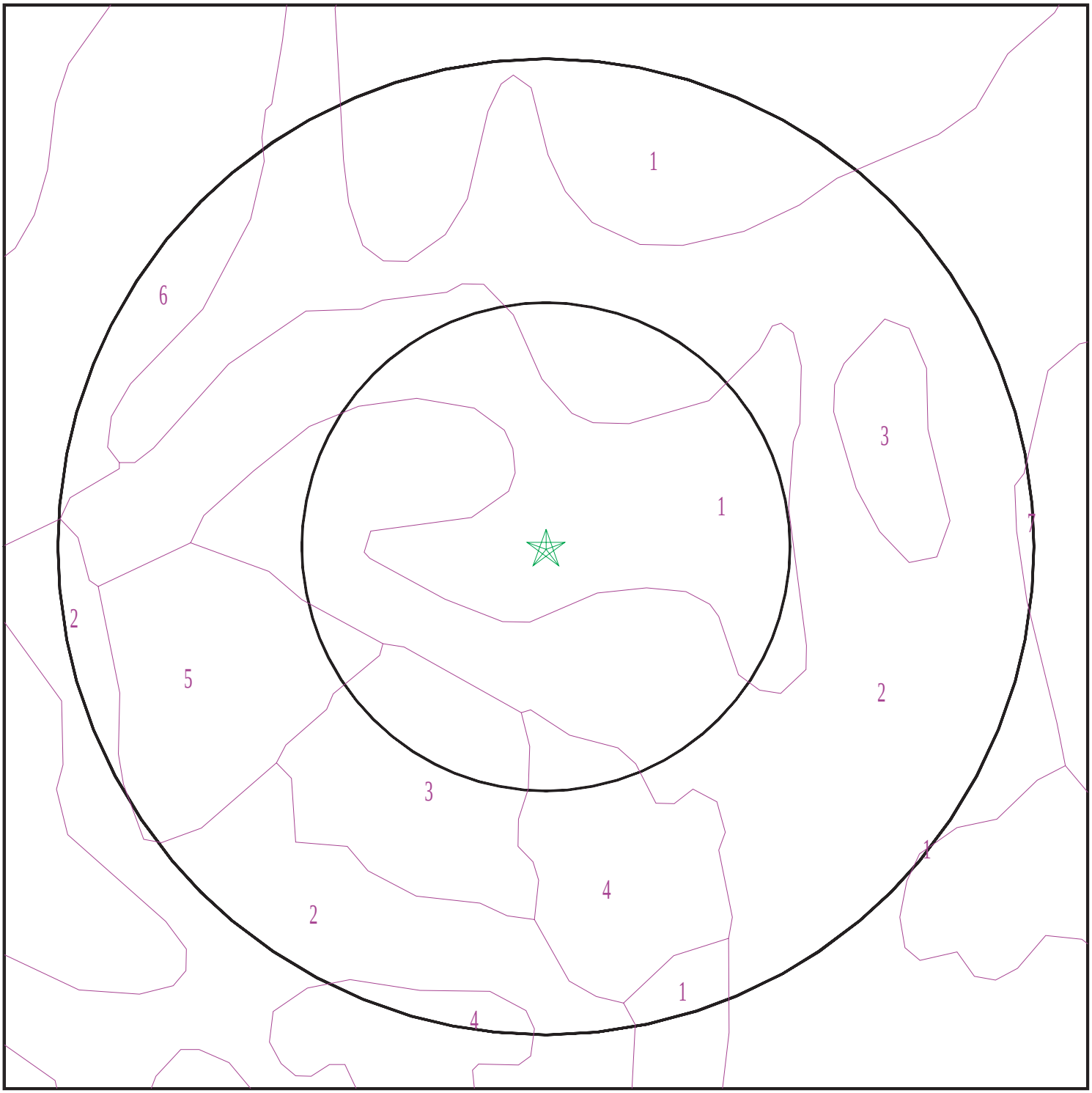
Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7322665.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Town of Princeville and Edgecombe County Propertie	CLIENT:	Terracon
ADDRESS:	US-64 Alt and South Shiloh Farm Road Tarboro NC 27886	CONTACT:	Allen Mccoll
		INQUIRY #:	7322665.2s
LAT/LONG:	35.870182 / 77.505561	DATE:	April 28, 2023 5:18 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Altavista

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.5
2	7 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.5
3	14 inches	42 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.5
4	42 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 3.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Roanoke

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 0.42	Max: 5.5 Min: 3.5
2	7 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 0.42	Max: 5.5 Min: 3.5
3	14 inches	53 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 0.42	Max: 5.5 Min: 3.5
4	53 inches	68 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 0.42	Max: 5.5 Min: 3.5

Soil Map ID: 3

Soil Component Name: State

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 153 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**		
1	0 inches	9 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
2	9 inches	44 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
3	44 inches	90 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: Conetoe

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**		**Soil Reaction (pH)**
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
2	7 inches	25 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
3	25 inches	40 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6
4	40 inches	48 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	48 inches	89 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.6

Soil Map ID: 5

Soil Component Name: Wickham

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	50 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	50 inches	77 inches	loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Tarboro

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 141	Max: 6.5 Min: 4.5
2	9 inches	48 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 141	Max: 6.5 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	48 inches	98 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141 Min: 141	Max: 6.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Cape Fear

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6 Min: 3.5
2	12 inches	40 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6 Min: 3.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	40 inches	50 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6 Min: 3.5
4	50 inches	72 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6 Min: 3.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	NC0433123	1/2 - 1 Mile WSW

Note: PWS System location is not always the same as well location.

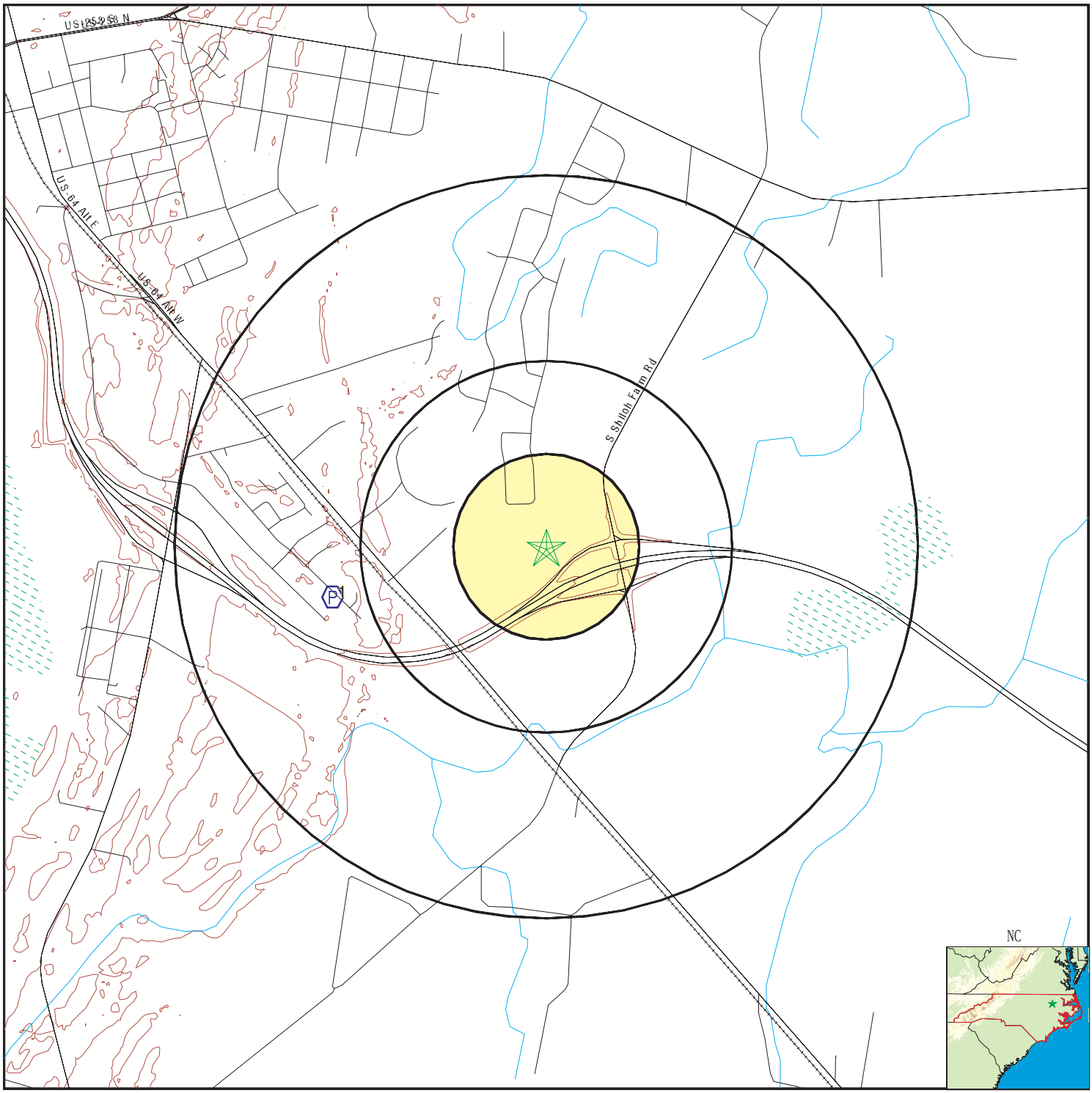
GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 7322665.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Wildlife Areas
Natural Areas
Rare & Endangered Species

N

SITE NAME:	Town of Princeville and Edgecombe County Propertie	CLIENT:	Terracon
ADDRESS:	US-64 Alt and South Shiloh Farm Road Tarboro NC 27886	CONTACT:	Allen Mccoll
		INQUIRY #:	7322665.2s
LAT/LONG:	35.870182 / 77.505561	DATE:	April 28, 2023 5:18 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **WSW** **1/2 - 1 Mile** **Lower**	**FRDS PWS**	**NC0433123**

Epa region:	04	State:	NC
Pwsid:	NC0433123	Pwsname:	EMC RURAL SERVICES INC
Cityserved:	Not Reported	Stateserved:	NC
Zipserved:	Not Reported	Fipscounty:	37065
Status:	Closed	Retpopsrvd:	701
Pwssvcconn:	256	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	RICHARD FAY OR MGR NOW	Contactorgname:	Not Reported
Contactphone:	Not Reported	Contactaddress1:	Not Reported
Contactaddress2:	PO BOX 188	Contactcity:	TARBORO
Contactstate:	NC	Contactzip:	27886
Pwsactivitycode:	I		
Pwsid:	NC0433123	Facid:	9826
Facname:	WELL HOUSE 1	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	NC0433123	Facid:	9827
Facname:	WELL HOUSE 2	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	NC0433123	PWS name:	EMC RURAL SERVICES INC
Address:	Not Reported	Care of:	Not Reported
City:	PRINCEVILLE	State:	NC
Zip:	27886	Owner:	EMC RURAL SERVICES INC
Source code:	Ground water	Population:	701
PWS ID:	NC0433123	PWS type:	System Owner/Responsible Party
PWS name:	MR. CARL HARTSIELD OR MGR	PWS address:	Not Reported
PWS city:	KINSTON	PWS state:	NC
PWS zip:	28501	PWS ID:	NC0433123
PWS type:	System Owner/Responsible Party		
PWS name:	JEMACA ENTERPRISES INC	PWS address:	Not Reported
PWS city:	KINSTON	PWS state:	NC
PWS zip:	28501	County:	EDGECOMBE
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	701
PWS ID:	NC0433123	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00000763	System name:	LONE PINE WATER COMPANY
System address:	Not Reported	System city:	TARBORO
System state:	NC	System zip:	28501
County FIPS:	033	City served:	TARBORO
Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	351545	Longitude:	0773454
Latitude:	355218	Longitude:	0773110
Latitude:	355218	Longitude:	0773110

Latitude:	355218	Longitude:	0773110

State:	NC	Latitude degrees:	35
Latitude minutes:	52	Latitude seconds:	5.0000
Longitude degrees:	77	Longitude minutes:	30
Longitude seconds:	58.0000		

State:	NC	Latitude degrees:	35
Latitude minutes:	52	Latitude seconds:	11.0000
Longitude degrees:	77	Longitude minutes:	31
Longitude seconds:	9.0000		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9403599	Violation source ID:	000
PWS telephone:	Not Reported	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	050194	Violation end date:	053194
Violation period (months):	001	Violation awareness date:	061694
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9413839	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	LEAD & COPPER RULE
Violation type:	Initial Tap Sampling for Pb and Cu		
Violation start date:	070193	Violation end date:	123193
Violation period (months):	006	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

Violation ID:	1085	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	04/09/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	185	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	285	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	385	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	585	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	685	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	785	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation ID:	885	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/01/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Map ID
Direction
Distance

Database EDR ID Number

NC_SNHA NC10001456

Acres:	48.6	Sitename:	MILDRED WET HARDWOOD FOREST
Quality type:	Not Reported	Sig:	D
Site id:	1456	Edr id:	NC10001456

NC_SNHA NC10003208

Acres:	206.99	Sitename:	TAR RIVER FLOODPLAIN
Quality type:	SECONDARY	Sig:	C
Site id:	3208	Edr id:	NC10003208

NC_SNHA NC10003209

Acres:	73.55	Sitename:	TAR RIVER FLOODPLAIN
Quality type:	PRIMARY	Sig:	C
Site id:	3209	Edr id:	NC10003209

NC_SNHA NC10003210

Acres:	14.31	Sitename:	TAR RIVER FLOODPLAIN
Quality type:	SECONDARY	Sig:	C
Site id:	3210	Edr id:	NC10003210

NC_SNHA NC10003211

Acres:	177.69	Sitename:	TAR RIVER FLOODPLAIN
Quality type:	SECONDARY	Sig:	C
Site id:	3211	Edr id:	NC10003211

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
1	2.00	2	2

Federal EPA Radon Zone for EDGECOMBE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 27886

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon converage identifying sites (terrestrial or aquatic) that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or high quality natural communities, or other important ecological features.

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX E

CREDENTIALS

Kenneth Allen McColl, Jr.

Environmental Department Manager/Project Scientist

PROFESSIONAL EXPERIENCE

Mr. McColl is the Environmental Department Manager and a Project Scientist in Terracon's Winterville, North Carolina office. He has 23 years experience as an Environmental Professional and Environmental Project Manager and 16 years experience in the role of Environmental Department Manager.

Responsibilities performed by Mr. McColl include project coordination and implementation, direction and oversight of field activities, data analysis and interpretation, report preparation and client/regulatory communications. He has conducted Environmental Site Assessment Phase I & II's of varying degree and extent for a variety of commercial, residential, and industrial properties. Mr. McColl also has experience with underground storage tank removal/closure supervision activities, petroleum related spill incidents, and contaminated soil removal in accordance with environmental regulations.

As a department manager, Mr. McColl monitors all projects in progress in the department to ensure that work is executed on time and in accordance with the client's requirements and within company policies, procedures, and standards. He performs proposal preparation and supervises the preparation of proposals and cost estimates requested by clients to ensure proper scoping of services, availability of manpower and pricing to achieve desired profitability. Supervise the daily operations of a department including staff training, development, proper utilization of equipment, safety oversight, quality of services and work product, timely delivery of services and deliverables and adherence to policies and procedure. Mr. McColl also participates in business development activities to identify, develop, win, and execute project opportunities and build and maintain client relationships.

Mr. McColl is also a North Carolina Accredited Asbestos Building Inspector and has held this certification for over 13 years. Mr. McColl has also been North Carolina Notary Public for over 20 years.

PROJECT EXPERIENCE

Environmental Site Assessments – North Carolina, South Carolina and Virginia

Experienced with accounts for financial institutes, land trusts, real estate, developers, and industrial, commercial, residential property owners.

Supervision of UST Removals/Closures – North Carolina & South Carolina

Conducting direct and indirect supervision of UST removals / closures for a variety of gas stations, industrial locations, and residential heating oil tanks in accordance with NCDEQ and SCDHEC guidelines and regulations.

EDUCATION

Bachelor of Science, Biology with Biomedical Emphasis, 1997 / UNC-Pembroke / Pembroke, North Carolina

REGISTRATIONS/ CERTIFICATIONS

North Carolina Accredited Asbestos Inspector #12649

North Carolina Notary Public

PROFESSIONAL TRAINING

40 Hour OSHA HAZWOPER Training

Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation and Management Training – August 2015

AFFILIATIONS

Greenville-Pitt Chamber of Commerce Member/Office Champion

Eastern North Carolina Alliance Member/Office Champion

WORK HISTORY

Terracon, Greenville, NC, Project Scientist – Environmental Services, 2007 to present

Environmental Hydrogeological Consultants, Inc., Red Springs, NC, Office Manager / Environmental Technician / Environmental Professional, 2000-2007

George Paris & Associates Land Surveying, Red Springs, NC, Office Manager/Field Technician, 1999-2000

Kenneth Allen McColl, Jr., Credentials (continued)

Petroleum Related Spill Incident Response/Clean Up – North & South Carolina
Provided supervision and over site for a variety of petroleum related spill incidents including trucking accidents and aboveground storage tank releases.

Grifton Food Mart – Grifton, NC
Supervised the removal and tank closure activities of 13 underground storage tanks. Responsible for providing reporting to regulatory authorities.

The Province – Greenville, NC
Performed a Phase I Environmental Site Assessment of seven tracts prior to the client's purchase. Tracts included residential and commercial properties. Supervised underground storage tank closures. Performed limited site investigations, including soil, groundwater and soil gas sampling. Obtained Brownfields eligibility for the site due to findings of our Limited Site Investigation.

Barnhill Contracting Property – Kinston, NC
Performed a Phase I Environmental Site Assessment, Phase II Limited Site Investigation and Receptor Survey for identifying water supply wells and surface water on a 200-acre tract of land.

Former Pungo District Hospital – Belhaven, NC
Performed a pre-demolition asbestos inspection on the former hospital that consisted of approximately 56,000 square-feet and was constructed in several different phases across several different decades.

Cape Hatteras Lighthouse – Buxton, NC
Performed a pre-renovation asbestos and lead paint inspection of this lighthouse that is approximatly 199 feet tall.

East Carolina University Warehouse District – Three Warehouse Buildings – Greenville, NC
Performed pre-renovation asbestos and lead-paint inspections for these three historic warehouse buildings. Building sizes ranged from approximately 13,000 square feet to 71,000 square feet. Buildings were constructed between 1905 and 1915 with the largest building being in a dilapidated condition.

Also performed a Phase II Limited Site Investigation for Polycyclic Aromatic Hydrocarbon (PAH) contamination at one of these warehouses and achieved closure with the state regulatory agency for the PAH contamination based on the Phase II findings.

Seymour Johnson Air Force Base – Pump House # 2 Project – Goldsboro, NC
Supervised the removal of six 50,000-gallon jet fuel underground storage tanks and the removal of the underground storage tank system (product pumps and product lines) located near one of flight decks and transient ramps at this military base. Tank closure activities included the supervision of the removal of the tanks and tank system, the collection of 26 confirmation soil samples, the supervision of drilling activities for collecting 9 groundwater samples and the issuance of a Tank Closure Report to the state regulatory agency.

APPENDIX F

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g., California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report."
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.
ILP	Innocent Landowner/Operator Program

Description of Selected General Terms and Acronyms

Term/Acronym	Description
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/ TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/ TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.

Description of Selected General Terms and Acronyms

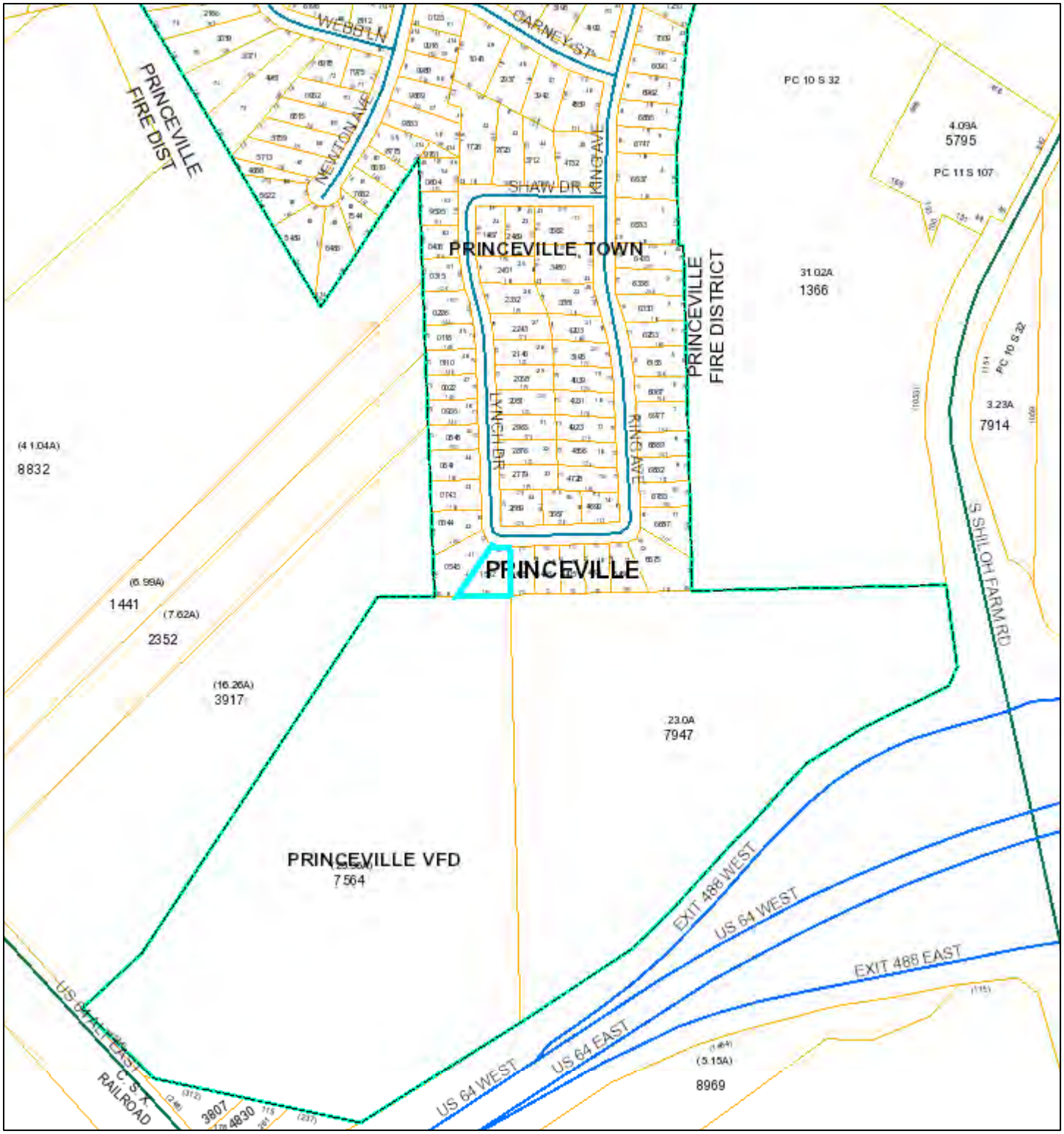
Term/Acronym	Description
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service

Description of Selected General Terms and Acronyms

Term/Acronym	Description
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.

1029 Lynch Drive Historical Aerial Review
and Deed

Princeville 53-acre Site Redevelopment - AR-30



PIN: 474725155200
OWNER: HIGGINS CAROLYN D JENKINS
ADDRESS: 1000 VANCE DR
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: 1029 LYNCH DR
PROPERTY DESCRIPTION:
LT 40 SOUTHERN TERRACE SECT 6
ZONING:

ACREAGE: 0
LAND VALUE: 9000
BLDG VAL: 0
NET VALUE: 9000
DEFERRED: 0
SUBDIVISION: SOUTHERN TERRACE SECT 6 (B)
TAX CODES: C10
DEED LOC: 1491/0727
DEED DATE: 5/22/2007
SALE PRICE: 0

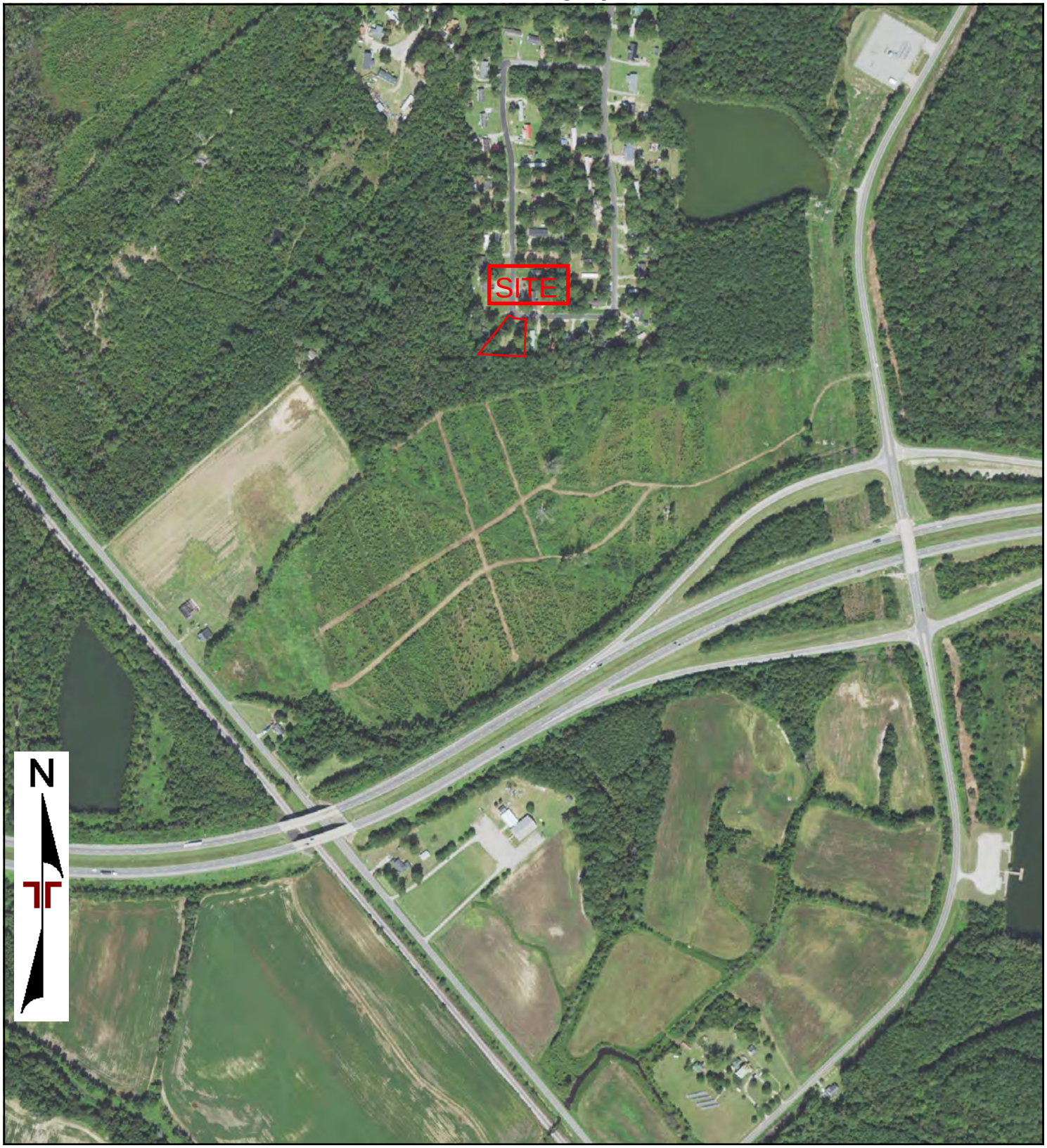
1 inch = 421 feet

0 0.0425 0.085 0.17 mi
0 0.05 0.1 0.2 km

October 9, 2023

Aerial Photograph

2020

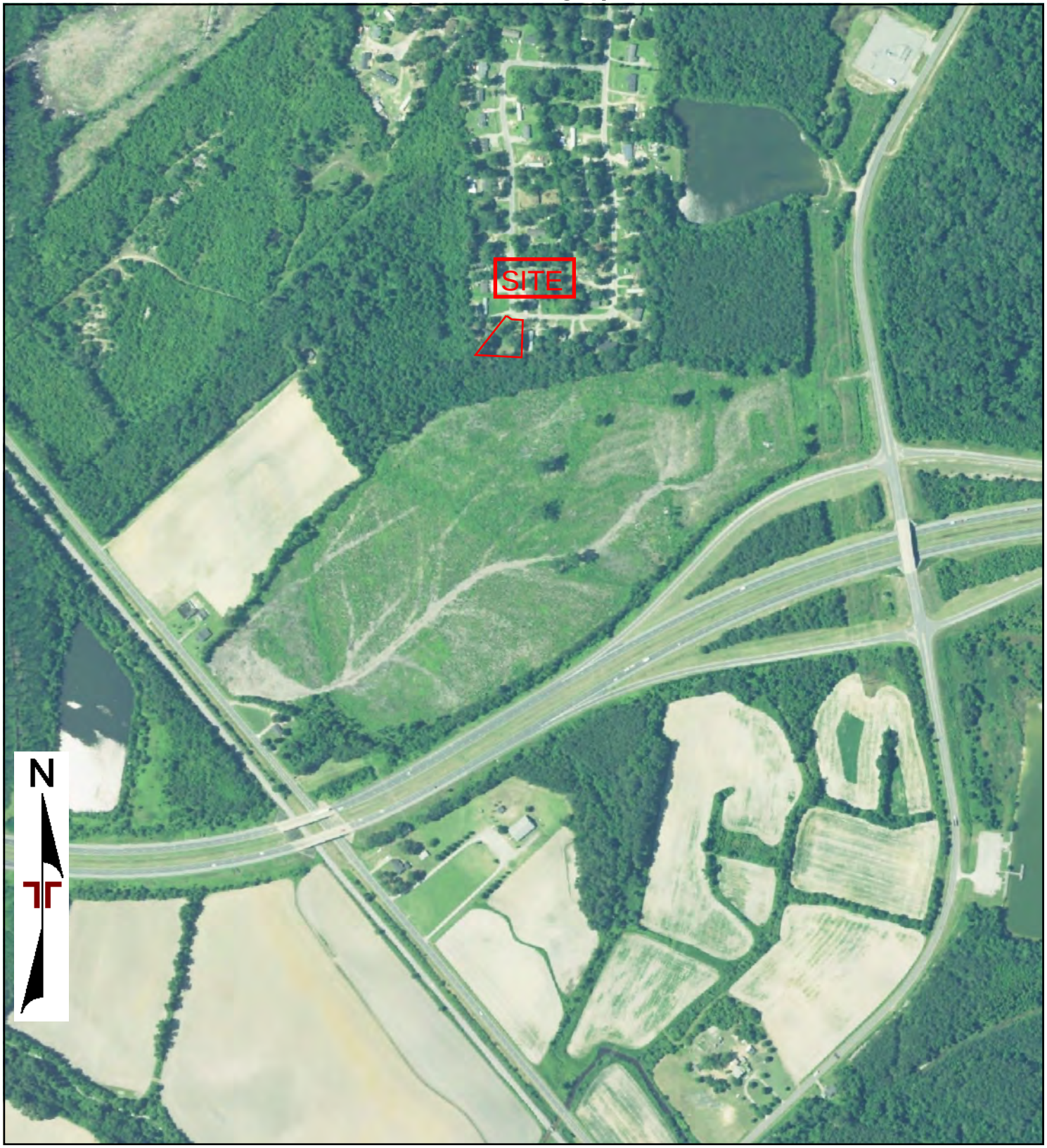


0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	2020 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 2020		

Aerial Photograph

2016



0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	2016 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 2016		

Aerial Photograph

2012

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	2012 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 2012		

Aerial Photograph

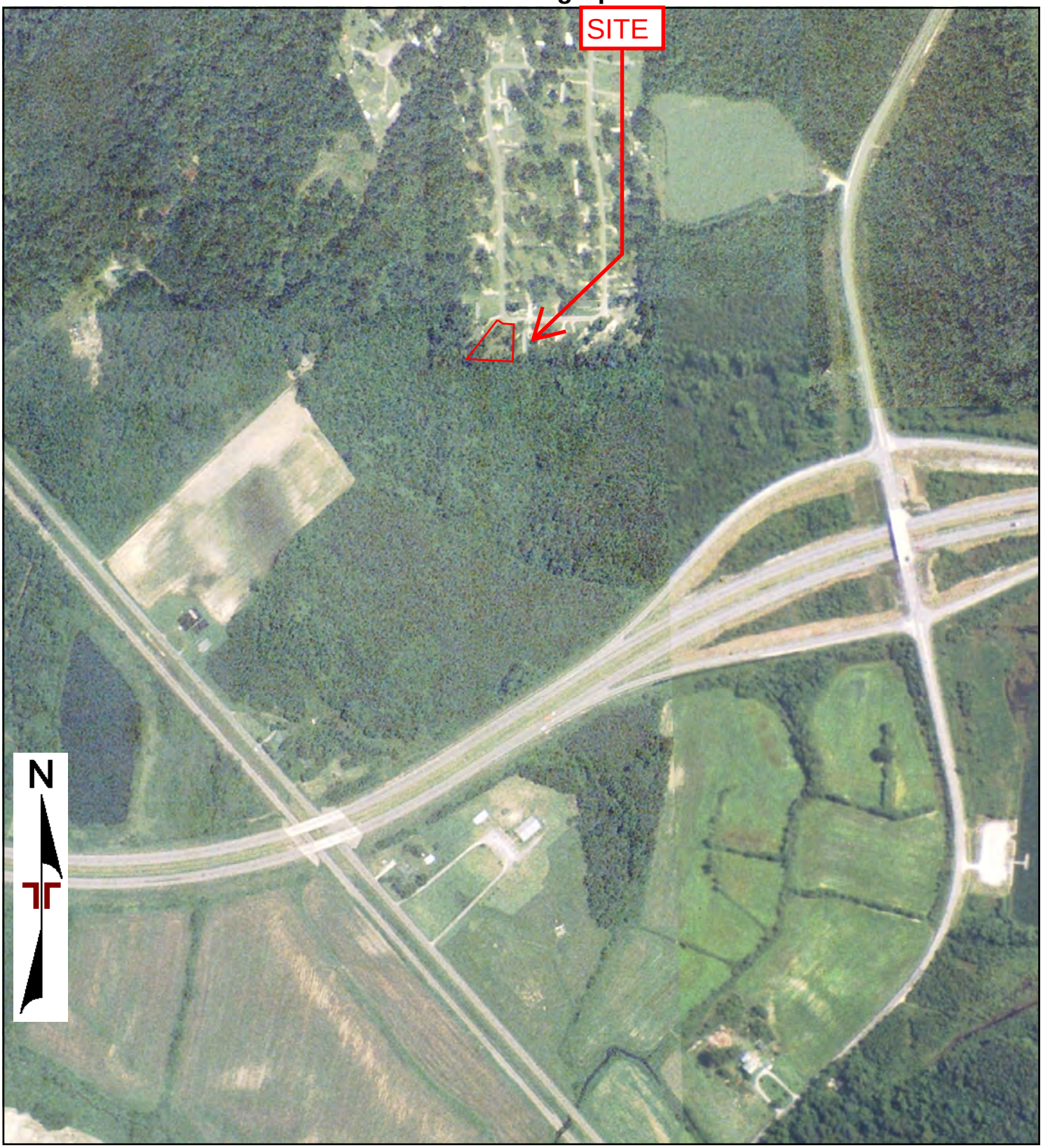
2009

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	2009 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 2009		

Aerial Photograph

2006



0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	2006 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 2006		

Aerial Photograph

1998

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1998 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1998		

Aerial Photograph

1994

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1994 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1994		

Aerial Photograph

1982

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1982 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1982		

Aerial Photograph

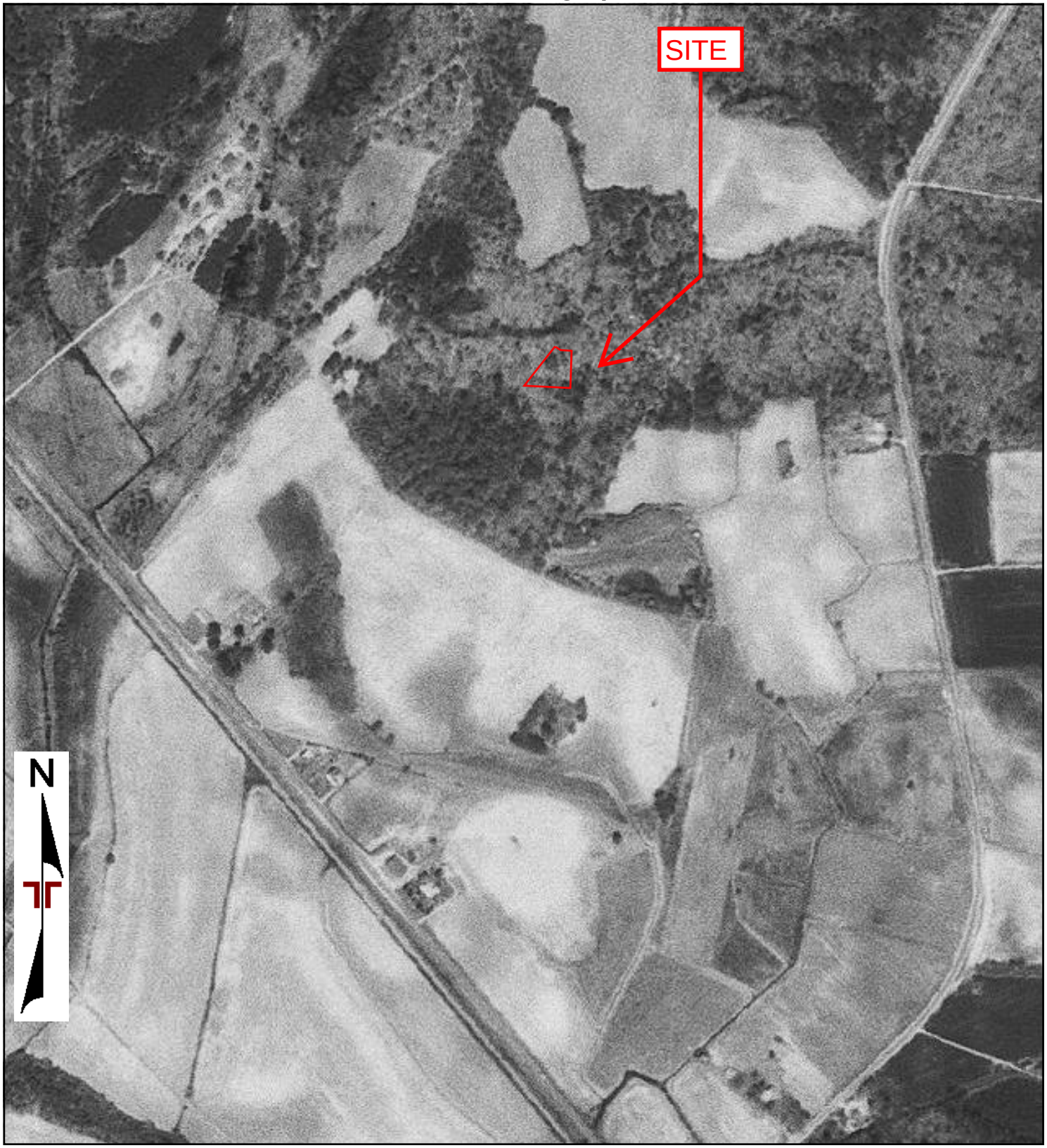
1977

0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1977 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1977		

Aerial Photograph

1974

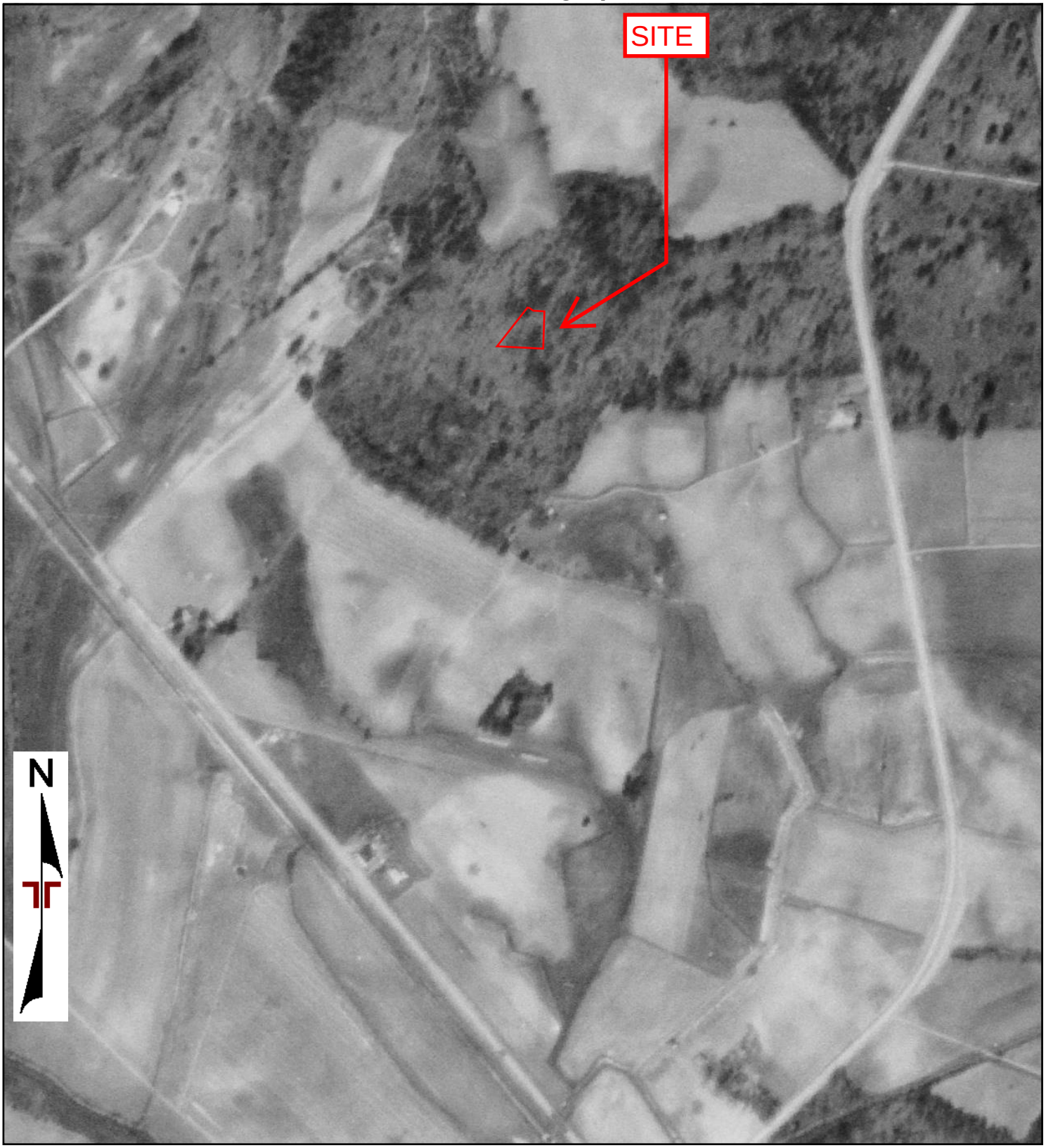


0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1974 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1974		

Aerial Photograph

1964

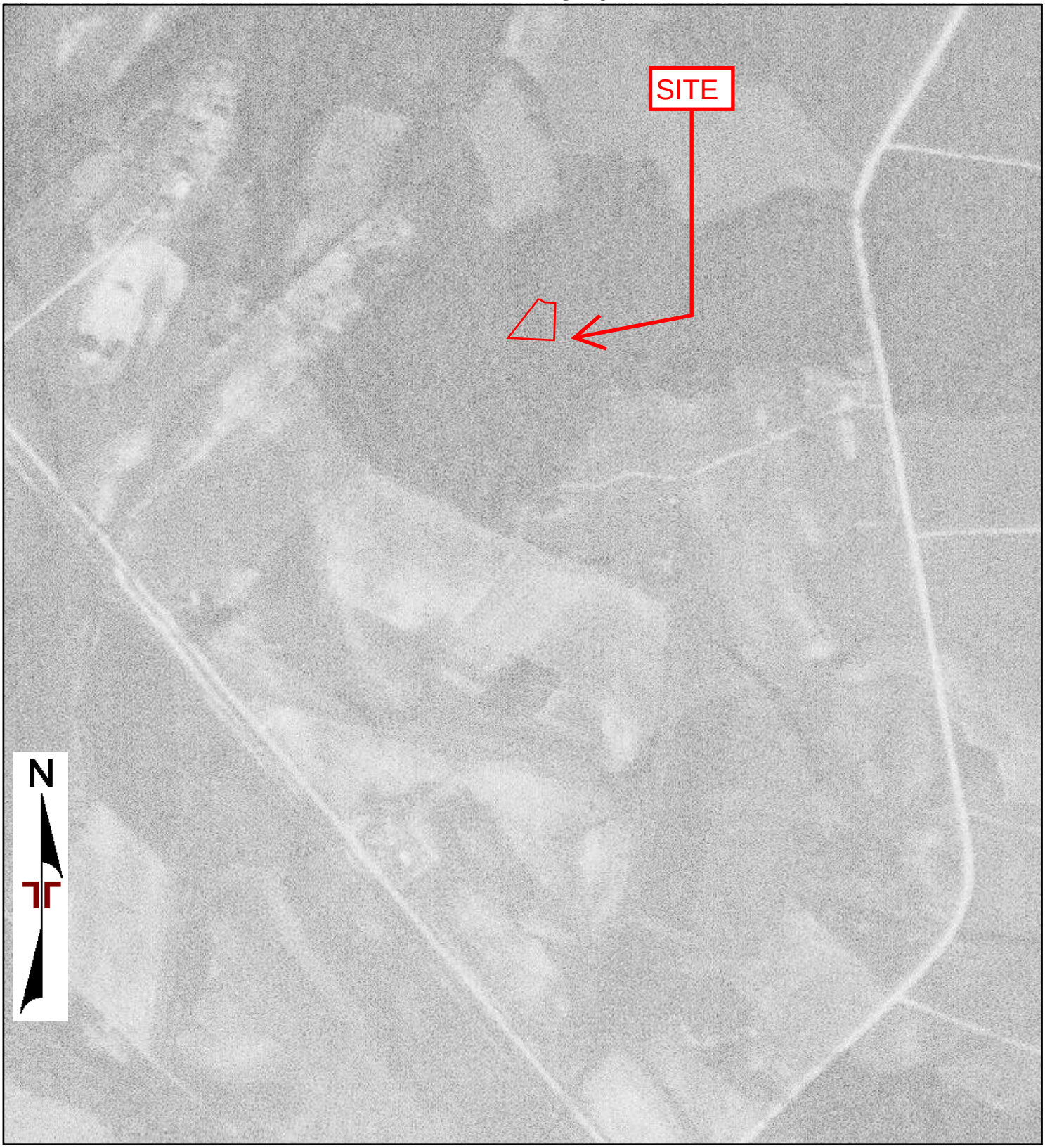


0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1964 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1964		

Aerial Photograph

1961

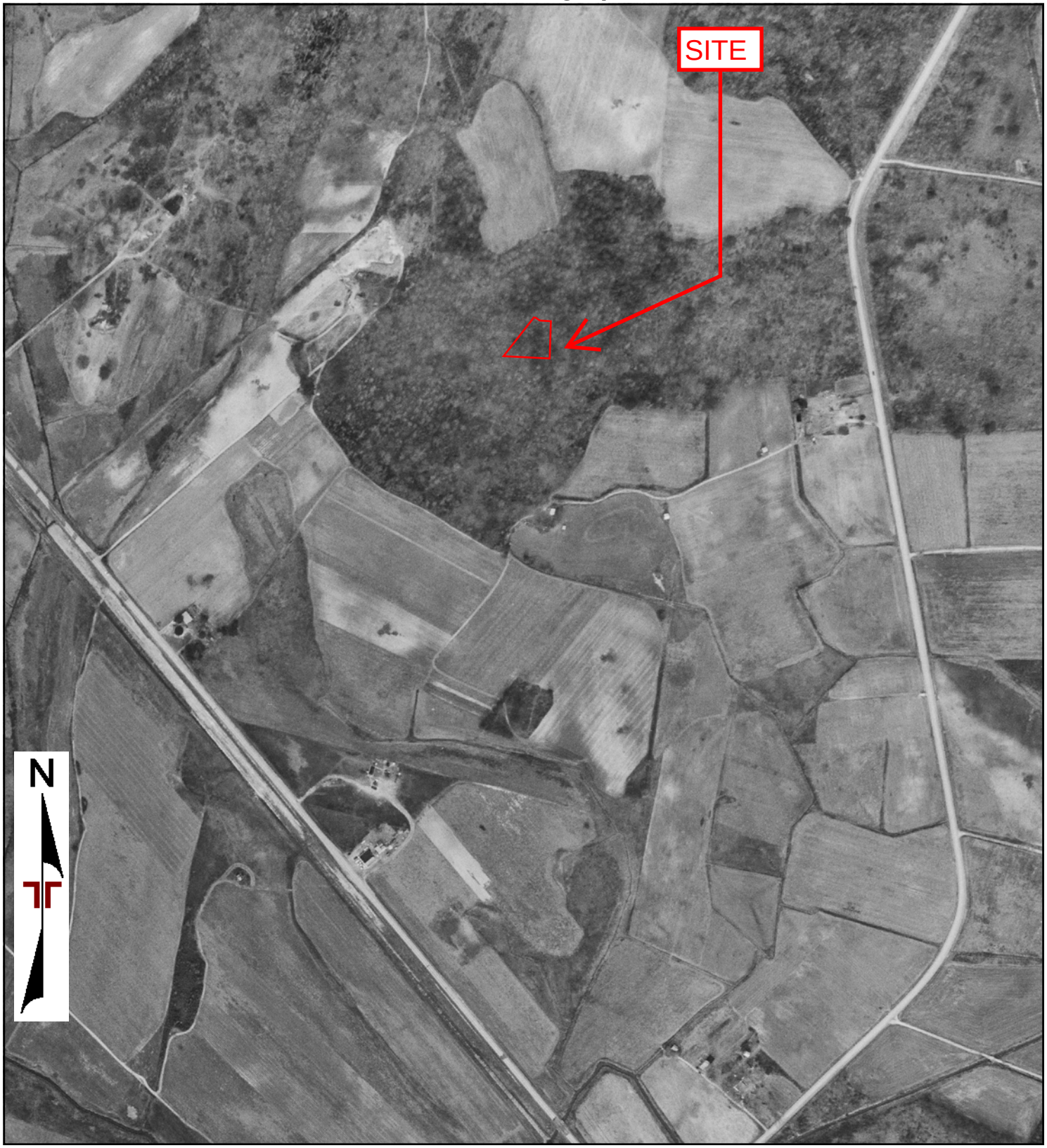


0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1961 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1961		

Aerial Photograph

1957

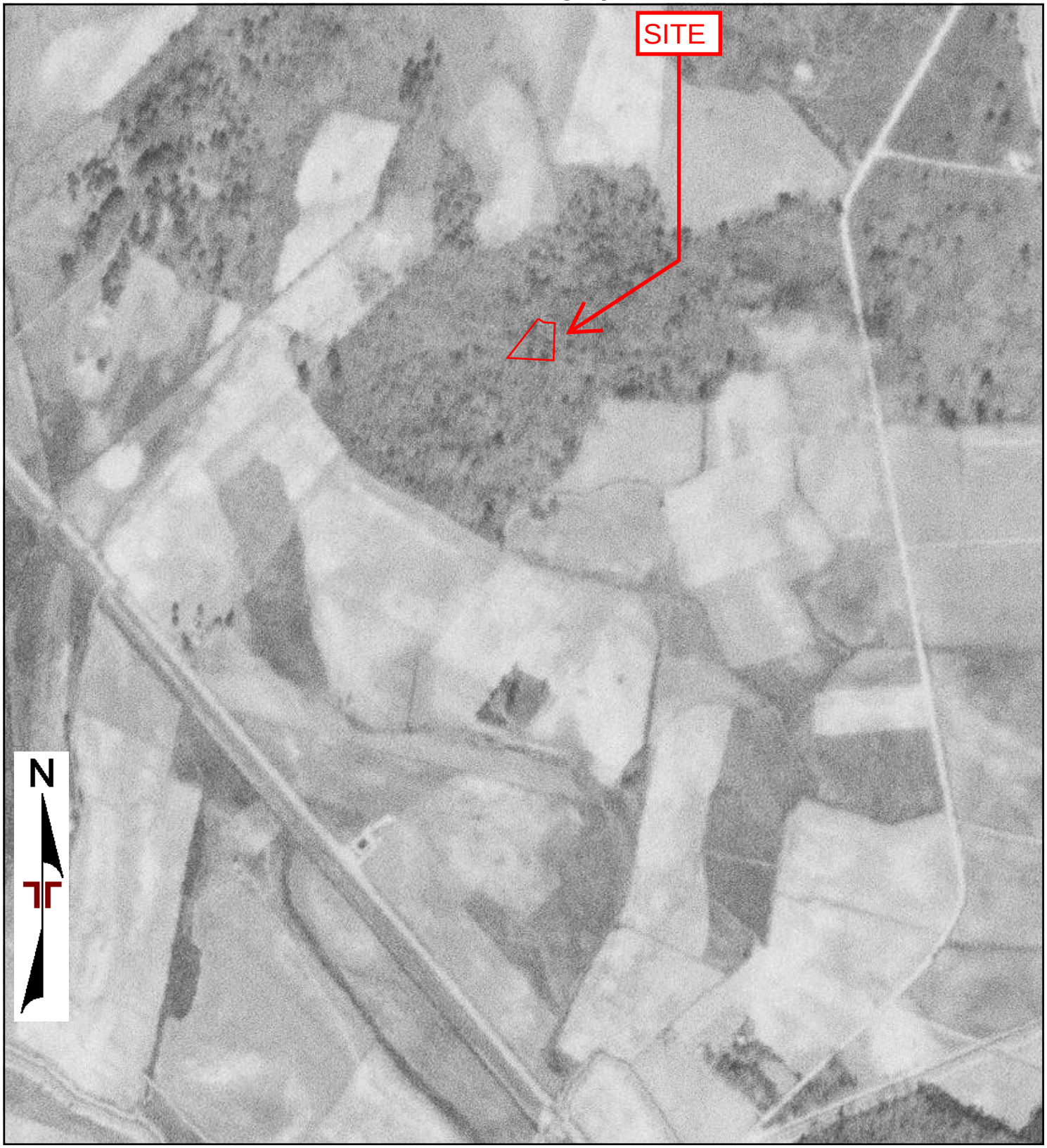


0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1957 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1957		

Aerial Photograph

1950



0 Feet 500 1000 2000

Project Manager:	Project No:	Terracon	1950 AERIAL PHOTOGRAPH
Drawn By:	Scale:		
Checked By:	File Name:		
Approved By:	Date: 1950		

BOOK 1491 PAGE 0727

FILED
EDGECOMBE COUNTY NC
05/22/2007 4:36 PM
ROBIN W. CARPENTER
Register Of Deeds
Register/Deputy/Asst.

NO NS

This instrument prepared by Wayne S. Boyette, a licensed North Carolina Attorney. This certifies that there are no delinquent ad valorem real estate taxes which the Edgecombe County Tax Collector is charged with collecting that are a lien on PIN No. 4738-67-7663-00, 4728-78-4331-00, 4728-88-3089-00, 4737-68-2901-00, 4747-16-9869-00, 4747-19-9169-00, 4747-27-4192-00, 4747-26-2051-00, 4747-25-1552-00 and 4737-63-4633-00. This is not a certification that this Edgecombe County Tax Department PIN No. matches this deed description.

Kathleen Davis Date: 5/22/07
Tax Collector, Tax Assistant

NORTH CAROLINA

DEED OF GIFT

EDGECOMBE COUNTY

THIS DEED OF GIFT, made the 22 day of May, 2007, by **FRANK JENKINS**, and wife, **BLANCHE JENKINS,** hereinafter GRANTORS, to **CAROLYN D. JENKINS HIGGINS** whose address is 2051 Love Shop Rd, Halifax, VA 245581433 US 64 Alt. East, Tarboro, NC 27886, hereinafter GRANTEE;

W I T N E S S E T H:

That the Grantors, in consideration of the sum of One Dollar, has by these presents conveyed and set over to the Grantee, her heirs and assigns, all of her interest in and to the following real property located in the City of Tarboro, Edgecombe County, North Carolina more particularly described as follows:

SEE ATTACHED EXHIBIT A

TO HAVE AND TO HOLD the aforesaid interest in the above-descried real property together with all privileges and appurtenances thereunto belonging unto the Grantee, her heirs and assigns in fee simple forever.

And the Grantors covenant with the Grantee, that Grantors are seized of the aforesaid premises in fee and have the right to convey the same in fee simple, that the same is free and clear of all encumbrances; and that Grantors will forever warrant and defend the title to the same against lawful claims of all persons

whomsoever.

IN WITNESS WHEREOF, the Grantors have hereunto set their hand and seal the day and year first above written.

Frank Jenkins (SEAL)
Frank Jenkins

Blanche Jenkins (SEAL)
Blanche Jenkins

NORTH CAROLINA
EDGECOMBE COUNTY

I, a Notary Public for County and State aforesaid, do hereby certify that **FRANK JENKINS** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and official stamp or seal this the 22 day of May, 2007.

NANCY BOLTON (SEAL) NOTARY PUBLIC EDGECOMBE COUNTY, NC

Nancy Bolton
Notary Public Nancy Bolton
My commission expires: 2-16-2012

STATE OF NORTH CAROLINA_____
EDGECOMBE COUNTY

I, a Notary Public for County and State aforesaid, do hereby certify that **BLANCHE JENKINS** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and official stamp or seal this the 22 day of May, 2007.

NANCY BOLTON (SEAL) NOTARY PUBLIC EDGECOMBE COUNTY, NC

Nancy Bolton
Notary Public Nancy Bolton
My commission expires: 2-16-2012

2140\B3GIFT DeedJenkins 05-15-07

EXHIBIT A

Tract Number One: 1105 Bradley Avenue, Parcel No. 4738-67-7663

Being all of Lots 13 and 14 Block F, fronting on Bradley Avenue in the Town of Tarboro, as shown on a survey made for Henry Johnson, dated November 8, 1923 by T.W. Secrest, Registered Land Surveyor and recorded in Map Book 1, page 178, Edgecombe Public Registry.

Tract Number Two: 301 First Street, Parcel No. 4728-78-4331

That certain tract or parcel of land lying and being situate in the Town of Tarboro, Edgecombe County, North Carolina, and being more particularly described as follows: All of Lot No. 127 in Block 25 as shown on map of the property of Runnymede Mills, Inc., made by L. B. Cooper and of record in Edgecombe County Public Registry in Map Book 6, at page 74. Said lot fronting 54 feet on First Street (8th Street) and running back between parallel lines 150 feet and upon which is situate house number 29. Reference is hereby made to said map for further and complete description. The above described property is the identical property described in deed dated January 14, 1955, from Elizabeth E. Hoard and husband, Charles B. Hoard, to Haywood Parisher and wife, Helen Baker Parisher, recorded in Book 553, at page 109, of the Edgecombe County Public Registry, and being the identical property described in deed dated 30th day of November, 1978, from Myrtle P. Ruffin and husband, Patrick Wayne Ruffin, et als to Carl S. Parisher and wife, Faye B. Parisher, which is recorded in the Edgecombe County Public Registry, and also being the identical property conveyed to Elbert E. Hudson by deed recorded in Book 985, page 09 of the Edgecombe Public Registry, and also being the identical property conveyed to Frank Jenkins and wife, Blanche Jenkins by deed recorded in Book 1031, page 404 in the Edgecombe County Public Registry, and reference is hereby made for further and more complete description of said property.

Tract Number Three: 202 Creek Street, Parcel No. 4728-88-3089

BEGINNING at a point near the western right of way line of Creek Street, at the southeastern corner of the Ashley Staton lot, No. 3, on the map hereinafter referred to, thence South 1 degree 26 minutes West 1. 53 feet to a point in the western right of way line of Creek Street, thence along and with said right of way line South 10 degrees 30 minutes West 52. 70 feet to a point in said right of way line, cornering; said point also being a the northeastern corner of the Willis Warren lot, No. 1, thence along and with the line of Willis Warren, a wire fence now being on said line, North 77 degrees 19 minutes West 217.77 feet to a point in the center of Hendricks Creek, cornering; said point also being the northwestern corner of Willis Warren lot, thence North 7 degrees 28 minutes East 60.68 feet to a point in the center of the Creek, cornering; said point also being the southwestern corner of the Ashley Staton lot, thence along and with the line of Ashley Staton, a wire fence now being on said line, South 75 degrees 22 minutes East 212.83 feet to the point of beginning, and being all of Lot No. 2 as shown on unrecorded plat entitled "Property of Joel K. Bourne, Tarboro, Edgecombe County, N.C., Irvin A. Staton, R. L. S., L-1295, Tarboro, N.C. Date: May 18, 1972, Scale: 1"=30'," to which plat reference is hereby made for further description. This is the identical property conveyed to Helen D. Peaden, Divorced, from Frederick I. Turner and wife, Ruth B. Turner, by deed dated November 17, 1978 and recorded in Book 887, page 889, Edgecombe County Public Registry. This is also the identical property conveyed to Elbert Eugene Hudson and wife, Carolyn M. Hudson, by deed recorded in Book 966, page 697, Edgecombe Public Registry, and also being the

identical property conveyed to Frank Jenkins and wife, Blanche Jenkins by deed recorded in Book 1031, page 395, Edgecombe Public Registry.

Tract Number Four:169 North Ridgewood Road, Parcel No. 4737-68-2901

That certain tract or parcel of land lying and being situate on the east side of S. R. 1600 (North Ridgewood Road, formerly Old Sparta Road) in No. 1 Township, Edgecombe County, North Carolina, and being more particularly described as follows:

BEGINNING at a nail set in the center line of S. R. 1600 (Old Sparta Road), and said beginning point being a corner with the property of William D. Bryan, Jr., and said beginning point also being located as follows: Beginning at the point where the centerline of U.S. Highway 64 Bypass intersects with the centerline of the CSX (formerly the Seaboard Coastline) Railroad Tracks, and thence running along and with the centerline of U.S. Highway 64 Bypass in a northwesterly direction 960.22 feet to the point of intersection of said centerline of U.S. 64 Bypass and the center line of S.R. 1600 (North Ridgewood Road, formerly Old Sparta Road), and thence running with the centerline of S.R. 1600 N. 05 deg. 46 min. W., 27.82 feet to the POINT OF BEGINNING, AND THENCE RUNNING FROM SAID POINT OF BEGINNING along and with the centerline of S.R. 1600 (North Ridgewood Road, formerly Old Sparta Road), N. 05 deg. 46 min. W., 265.0 feet to an existing nail, a corner with the property of Lance, Inc. described in a deed recorded in Book 972, at page 517 of the Edgecombe County Public Registry; and thence running along and with the southern line of Lance, Inc. N. 77 deg. 59 min. E., through an existing iron pipe in the western right-of-way line of the CSX Railroad, 414.0 feet to an existing iron pipe in the centerline of said CSX Railroad tracks, cornering; thence running along and with the centerline of said CSX Railroad tracks S. 34 deg. 45 min. E., 290.0 feet to a nail and cap in the edge of a railroad tie which is N. 34 deg. 44 min. W., 602.08 feet along and with the centerline of said railroad tracks from the intersection of said centerline of said railroad tracks and the centerline of U.S. 64 Bypass; thence running S. 78 deg. 17 min. W., 108.65 feet to an existing iron pipe in the western right-of-way line of CSX Railroad, a corner with property of Joseph R. Anderson described in a deed recorded in Book 1028 at page 414 of the Edgecombe County Public Registry; thence running along and with the northern line of Anderson S. 78 deg. 17 min. W., 13.10 feet to an existing iron pipe, a corner between Anderson and W.D. Bryan, Jr.; thence running along and with the northern line of Bryan, S. 78 deg. 26 min. W., 433.2 feet to the point of beginning, and containing 2.95 acres total, less 0.90 acres road and railroad right of way, leaving a net of 2.05 acres, as the same appears on a map entitled "Survey for Billy Bridgers and wife, Ruth W. Bridgers", dated 1 Oct. 1991, by Kenneth D. Talbot, Registered Land Surveyor, Tarboro, N.C., a copy of which map is attached hereto and made a part hereof, and to which map and the deeds and other records thereon referred to, reference is made for further description.

The above described property is a portion of the property described in deeds to Mayo Price recorded in Book 420 at page 15 and Book 597 at page 458 of the Edgecombe County Public Registry, the said Mayo Price having died intestate in 1959, and said property being inherited from him by his daughter, Jean P. Hatchell, and his wife, Callie Price (later Callie Price Morgan), and said property is also a portion of the property described in a deed from Callie Price Morgan, widow, and Jean Price Hatchell, et vir., to Sidney E. Williams, and wife, Virginia R. Williams recorded in Book 856 at page 559 of the Edgecombe County Public Registry, and said property is the identical property described in a deed from Sidney E. Williams, et ux., to Reid Lewis Whitehurst

recorded in Book 881 at page 383 of the Edgecombe County Public Registry, and also described and conveyed in a deed from Reid Lewis Whitehurst, et ux., to Don Whitehurst Pontiac, Buick, GMC, Inc. recorded in Book 994 at page 600 of said Registry, and subsequently conveyed by Don Whitehurst Pontiac, Buick, GMC, Inc. to Bobby Dean Whichard and wife, Jo Ann Mills Whichard, by deed recorded in Book 995 at page 86 of said Registry, and also described and conveyed in quitclaim deed from Bobby D. Whichard and wife, Jo Ann M. Whichard, to Jo Ann M. Whichard recorded in Book 1036 at page 151 of said Registry, and reference is made to all of said deeds and to the deeds and other records therein referred to for further and more particular description.

The aforesaid conveyance is made SUBJECT TO all of the rights of the CSX Railroad in and to that portion of the above described property which lies within the CSX right of way as shown on the aforesaid map, said right of way extending 100 feet west of and parallel to the centerline of said CSC Railroad tracks.

The aforesaid conveyance is also made SUBJECT TO the following: Right of way for U.S. Highway 64 Bypass and triangular shaped-area in the southwest corner of said property, recorded in Book 723 at page 443 of the Edgecombe County Public Registry; right of way for S.R. 1600 (North Ridgewood Road, formerly Old Sparta Road); rights of way to Edgecombe Martin County Electric Membership Corporation recorded in Book 368 at page 500, and Book 609 at page 110 of said Registry; and right of way to Virginia Electric & Power Company recorded in Book 373 at page 158 of said Registry.

The property hereinabove described was acquired by Grantors by instrument recorded in Book 1070, page 552, Edgecombe County Public Registry, and being the identical property conveyed to Frank Jenkins and wife, Blanche Lee Jenkins by deed recorded in Book 1307 at page 0885, Edgecombe Public Registry.

Tract Five: 902 Newton Avenue, Parcel No. 4747-16-9869

Being Lot 57 as shown on Plat recorded in Plat Cabinet 1, Slide 175-A and Slide 175-B of the Edgecombe Public Registry entitled "Section 6, Southern Terrace Subdivision, dated 1-21, 1981." And being a portion of the real property conveyed by R&S Enterprises, Inc. to Harris Development Corporation by deed recorded in Book 881, Page 150, in the Edgecombe Public Registry. And being the identical property conveyed to Frank Jenkins and wife, Blanche Jenkins by deed recorded in Book 1428 at page 0477, Edgecombe Public Registry.

This conveyance is expressly subject to:

1. The following restrictive covenants which shall run with the land;

a. The property herein conveyed shall be used for residential purposes only;

b. No livestock shall be raised on the property herein conveyed; and

c. Occupants of the property herein conveyed shall provide a well or water supply and septic system for sewerage as approved by the Edgecombe County Health Department.

Tract Six: 515 Newton Avenue, Parcel No. 4747-19-9169

Lot No. 77 of Section 4 as shown on the Map of Southern Terrace recorded in Map Book 16, Page 17, Edgecombe Public Registry. This is a portion of the property conveyed to Harris Industries, Inc. by Russel C. Harris, Jr., et ux, et al, by Deed recorded in Book 779, at page 141, of said Registry. Reference is made to said Map and Deed for further description. Harris

Industries, Inc. merged into R&S Enterprises, Inc. which is the surviving corporation.

This being the same property deeded by R&S Enterprises, Inc. of Edgecombe County, North Carolina to Willie Lee Powell, et ux, Carrie, in a deed recorded in Book 831, Page 662 of the Edgecombe Public Registry. Reference is hereby made for the benefit of future title examiners. Also being the identical property conveyed to Frank Jenkins and wife, Blanche Lee Jenkins by deed recorded in Book 859 at page 519, Edgecombe Public Registry.

Tract Seven: 101 Carney Street, Parcel No. 4747-27-4192

Being Lot 70 as shown on plat recorded in Map Book 16, page 26 of the Edgecombe Public Registry entitled "Section Five, Southern Terrace" dated June 10, 1974. Also being the identical property conveyed to Frank Jenkins and wife, Blanche L. Jenkins by deed recorded in Book 1053 at page 354, Edgecombe Public Registry.

The following restrictive covenants which shall run with the land:

a. The property herein conveyed shall be used for residential purposes only;

b. No livestock shall be raised on the property herein conveyed; and

c. Occupants of the property herein conveyed shall provide a well or water supply and septic system for sewerage as approved by the Edgecombe County Health Department.

Tract Eight: 1012 Lynch Drive, Parcel No. 4747-26-2051

Being Lot 30 as shown on plat recorded in Plat Cabinet 1, Slide 175-A and Slide 175-B of the Edgecombe Public Registry entitled " Section 6, Southern Terrace Subdivision, dated 1-21, 1981." And being a portion of the real property conveyed by R&S Enterprises, Inc. to Harris Development Corporation by deed recorded in Book 881, Page 150, in the Edgecombe Public Registry. Also being the identical property conveyed to Frank Jenkins and wife, Blanche L. Jenkins by deed recorded in Book 1224 at page 296, Edgecombe Public Registry.

This conveyance is expressly SUBJECT to:

The following restrictive covenants which shall run with the land:

a. The property herein conveyed shall be used for residential purposes only;

b. No livestock shall be raised on the property herein conveyed; and

c. Occupants of the property herein conveyed shall provide a well or water supply and septic system for sewerage as approved by the Edgecombe County Health Department.

Tract Nine: 1029 Lynch Drive, Parcel No. 4747-25-1552

Being Lot 40 as shown on plat recorded in Plat Cabinet 1, Slide 175-A and Slide 175-B of the Edgecombe Public Registry entitled "Section 6, Southern Terrace Subdivision, dated 1-21, 1981." And being a portion of the real property conveyed by R&S Enterprises, Inc. to Harris Development Corporation by deed recorded in Book 881, Page 150, in the Edgecombe Public Registry. Also being the identical property conveyed to Frank Jenkins and wife, Blanche Jenkins by deed recorded in Book 1367 at page 1138, Edgecombe Public Registry.

This conveyance is expressly SUBJECT to:

The following restrictive covenants which shall run with the land:

a. The property herein conveyed shall be used for residential purposes only;

b. No livestock shall be raised on the property herein conveyed; and

c. Occupants of the property herein conveyed shall provide a well or water supply and septic system for sewerage as approved by the Edgecombe County Health Department.

Tract Ten: 114 Jenkins Street, Parcel No. 4737-63-4633

That certain tract or parcel of land lying and being situate in Edgecombe County, North Carolina, and in No. 1 Township, and being Lot No. 17 of the Bogey Farm Sub-Division of the lands of W.S. Clark & Sons, Inc., as shown on a plat of the same made by Robert F. Wilson, Surveyor, recorded in Map Book 9 at Page 8 of the Edgecombe Public Registry, said lot fronting 105 feet on Jenkins Street, 420 feed on Dowens Street, and 105 feet on Bogey Street in said Sub-Division and containing on (1) acre, more or less, to which plat reference is hereby made for further description; and being the same land which was conveyed to the said Carolyn H. Clark by the said Willie L. Cooke and Kate H. Cooke, his wife, by deed of record in Book 516, Page 105 of the aforesaid Public Registry, reference to which deed is also made; and being the identical property conveyed to the said Willie L. Cooke and his wife, Kate H. Cooke by Carolyn H. Clark and her husband, S. N. Clark, Jr., said deed being recorded in Book 533, Page 315 of the Edgecombe Public Registry, to which reference is hereby made for a more certain description of the same. Also being the identical property conveyed to Frank Jenkins and wife, Blanche L. Jenkins by deed recorded in Book 1015 at page 158, Edgecombe Public Registry.

2140/Jenkins property descriptions 05-14-07

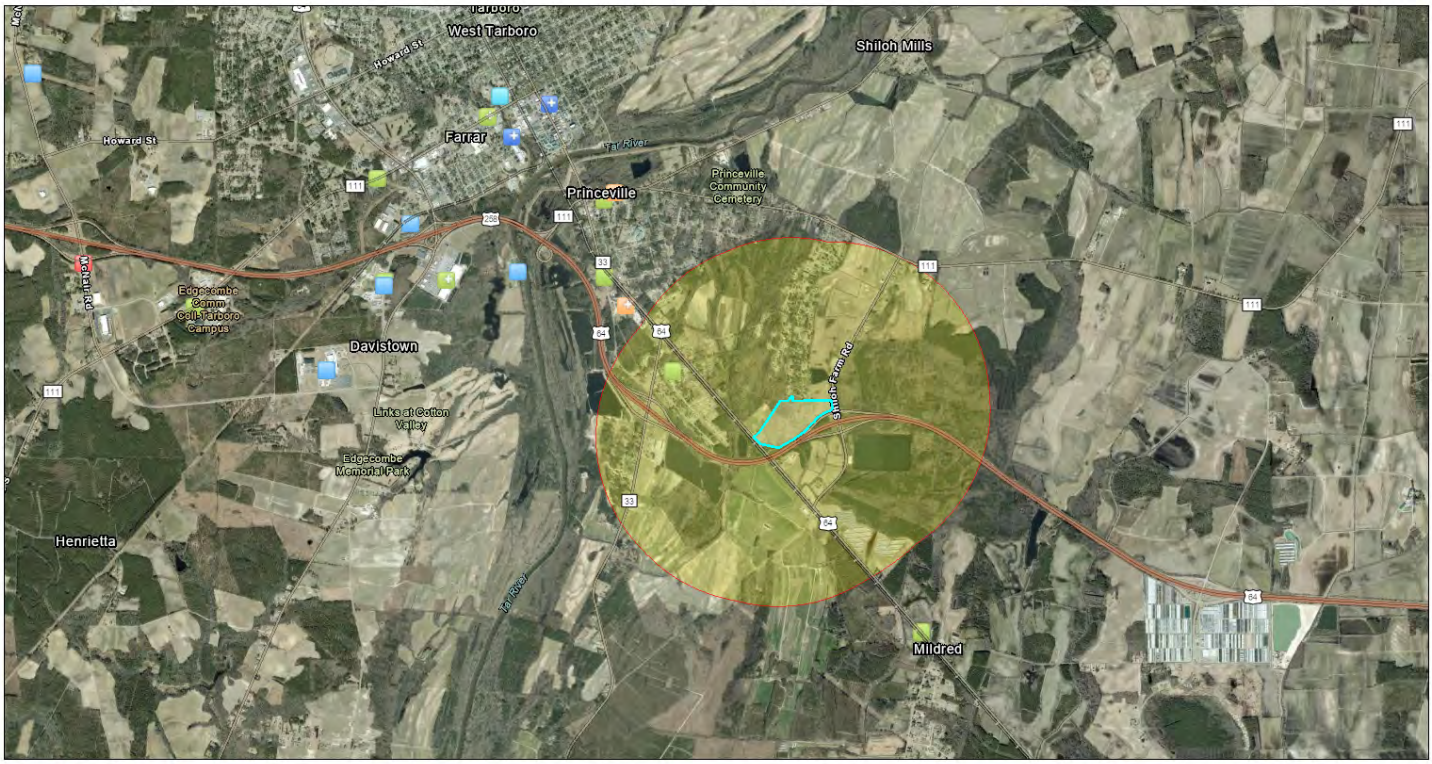
$26.00 file - Rountree & Boyette

NEPAssist EPA Facilities and NC DEQ DWM Maps and Facility Reports

NEPAssist Report

Princeville 53-Acre Site Redevelopment - EPA Facilities 1-mile Buffer

A3 Landscape



October 9, 2023

1:44,716

0 0.45 0.9 1.8 mi

0 0.5 1 2 km

- Brownfields (ACRES)
- Brownfields (ACRES)
- Toxic Substances Control Act (TSCA)
- Water Dischargers (NPDES)
- Toxic Releases (TRI)
- Toxic Releases (TRI)
- Air Pollution (ICIS-AIR)
- Air Pollution (ICIS-AIR)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- Princeville 53-Acre Site Redevelopment - EPA Facilities 1-mile Buffer

NC CGIA, Maxar, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

Input Coordinates: 35.871448,-77.502892,35.870726,-77.502806,35.870570,-77.502924,35.870248,-77.503804,35.869996,-77.504286,35.869700,-77.504694,35.869492,-77.504844,35.869344,-77.505102,35.868561,-77.505992,35.867883,-77.507205,35.867109,-77.508889,35.867492,-77.510981,35.868083,-77.511657,35.868553,-77.511035,35.871422,-77.508642,35.871413,-77.507805,35.871830,-77.507441,35.871796,-77.507269,35.871413,-77.507301,35.871448,-77.502892

Project Area	0.08 sq mi
Within 1 mile of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	yes
Within 1 mile of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 1 mile of a Federal Land?	no
Within 1 mile of an impaired stream?	no
Within 1 mile of an impaired waterbody?	no
Within 1 mile of a waterbody?	yes
Within 1 mile of a stream?	yes
Within 1 mile of an NWI wetland?	Available Online
Within 1 mile of a Brownfields site?	no
Within 1 mile of a Superfund site?	no

Within 1 mile of a Toxic Release Inventory (TRI) site?	no
Within 1 mile of a water discharger (NPDES)?	no
Within 1 mile of a hazardous waste (RCRA) facility?	yes
Within 1 mile of an air emission facility?	no
Within 1 mile of a school?	no
Within 1 mile of an airport?	no
Within 1 mile of a hospital?	no
Within 1 mile of a designated sole source aquifer?	no
Within 1 mile of a historic property on the National Register of Historic Places?	no
Within 1 mile of a Toxic Substances Control Act (TSCA) site?	no
Within 1 mile of a Land Cession Boundary?	no
Within 1 mile of a tribal area (lower 48 states)?	no
Within 1 mile of the service area of a mitigation or conservation bank?	no
Within 1 mile of the service area of an In-Lieu-Fee Program?	yes
Within 1 mile of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 1 mile of a Munitions Response Site?	no
Within 1 mile of an Essential Fish Habitat (EFH)?	no
Within 1 mile of a Habitat Area of Particular Concern (HAPC)?	no
Within 1 mile of an EFH Area Protected from Fishing (EFHA)?	no
Within 1 mile of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 1 mile of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within 1 mile of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

Created on: 10/9/2023 3:32:18 PM

NEPAssist

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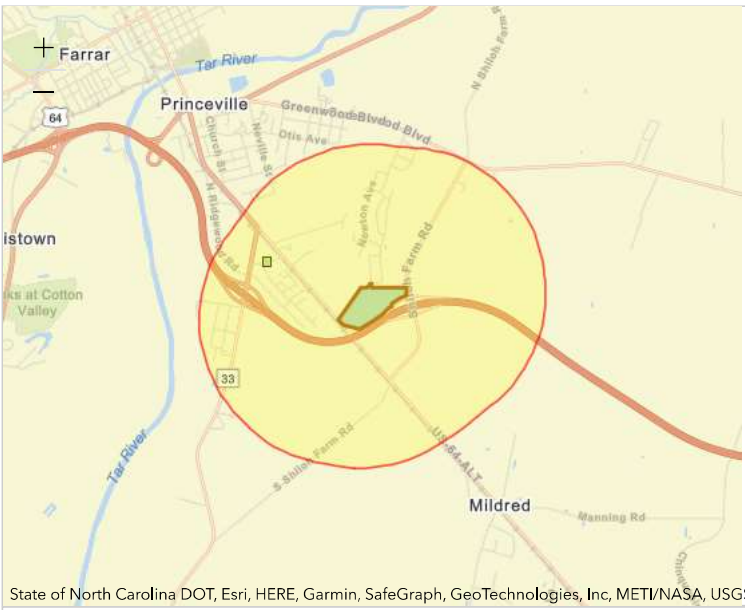

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Report question: ***Within 1 of a Hazardous waste site?*** **yes**

Modify question by entering a new buffer distance and unit for the selected study area:

1 miles Submit

Name

☐ TCC LLC PROPERTY (TARBORO,NC) (https://enviro.epa.gov/enviro/efsystemquery.rcrainfo?fac_search=handler_id&fac_search_type=Equal+To&postal_code=&location_address=&add_search_type=Beginning+With&city_name=&county_name=&state_code=&naics_type=Equal+to&naics_to=&univ_search=0&univA=

REGISTRY_ID: 110070912902
LATITUDE: 35.874104
LONGITUDE: -77.520812
PGM_SYS_ACRNM: RCRAINFO
PGM_SYS_ID: NCS000002696
PRIMARY_NAME: TCC LLC PROPERTY
LOCATION_ADDRESS: 194 CONCRETE RD.
CITY_NAME: TARBORO
COUNTY_NAME: EDGECOMBE
STATE_CODE: NC
EPA_REGION: Region 04
POSTAL_CODE: 27886
FIPS_CODE: 37065
HUC_CODE:
FACILITY_URL: https://enviro.epa.gov/enviro/efsystemquery.rcrainfo?fac_search=handler_id&fac_search_type=Equal+To&postal_code=&location_address=&add_search_type=Beginning+With&city_name=&county_name=&state_code=&naics_type=Equal+to&naics_to=&univ_search=(

☐ TCC LLC PROPERTY (TARBORO,NC) (https://enviro.epa.gov/enviro/efsystemquery.rcrainfo?fac_search=handler_id&fac_search_type=Equal+To&postal_code=&location_address=&add_search_type=Beginning+With&city_name=&county_name=&state_code=&naics_type=Equal+to&naics_to=&univ_search=0&univA=

REGISTRY_ID: 110070912902
LATITUDE: 35.874104
LONGITUDE: -77.520812
PGM_SYS_ACRNM: RCRAINFO
PGM_SYS_ID: NCS102720111
PRIMARY_NAME: TCC LLC PROPERTY
LOCATION_ADDRESS: 194 CONCRETE RD
CITY_NAME: TARBORO
COUNTY_NAME: EDGECOMBE
STATE_CODE: NC
EPA_REGION: Region 04
POSTAL_CODE: 27886
FIPS_CODE: 37065
HUC_CODE:
FACILITY_URL: https://enviro.epa.gov/enviro/efsystemquery.rcrainfo?fac_search=handler_id&fac_search_type=Equal+To&postal_code=&location_address=&add_search_type=Beginning+With&city_name=&county_name=&state_code=&naics_type=Equal+to&naics_to=&univ_search=(

Detailed Facility Report

Detailed Facility Report

Facility Summary

TCC LLC PROPERTY

194 CONCRETE RD, TARBORO, NC 27886

FRS (Facility Registry Service) ID: 110070912902
EPA Region: 04
Latitude: 35.874104
Longitude: -77.520812
Locational Data Source: RCRAINFO
Industries: --
Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	–
Date of Last Compliance Monitoring Activity	–
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	–
Formal Enforcement Actions (5 years)	–
Penalties from Formal Enforcement Actions (5 years)	–
EPA Cases (5 years)	–
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information
Resource Conservation and Recovery Act (RCRA): Inactive Other, (NCS102720111), Inactive Other, (NCS000002696)
Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details
Known Data Problems

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070912902					N	35.874104	-77.520812
RCRAInfo	RCRA	NCS102720111	Other	Inactive ( )			N	35.874104	-77.520812
RCRAInfo	RCRA	NCS000002696	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070912902	TCC LLC PROPERTY	194 CONCRETE RD, TARBORO, NC 27886	Edgecombe County
RCRAInfo	RCRA	NCS102720111	TCC LLC PROPERTY	194 CONCRETE RD, TARBORO, NC 27886	Edgecombe County
RCRAInfo	RCRA	NCS000002696	TCC LLC PROPERTY	194 CONCRETE RD., TARBORO, NC 27886	Edgecombe County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
No data records returned			

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
RCRA	*NCS102720111*	*RCRAInfo*		*FOLLOW-UP INSPECTION*	*State*	*11/04/2020*	*No Violations Or Compliance Issues Were Found*
RCRA	*NCS102720111*	*RCRAInfo*		*FOCUSED COMPLIANCE INSPECTION*	*State*	*09/10/2020*	*No Violations Or Compliance Issues Were Found*

Entries in italics are not counted as EPA official inspections.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	NCS102720111	No	06/17/2023	0	06/16/2023
RCRA	NCS000002696	No	06/17/2023	0	06/16/2023

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	
RCRA (Source ID: NCS000002696)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	N
	Violation	Agency												
RCRA (Source ID: NCS102720111)			07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	N
	Violation	Agency												

Informal Enforcement Actions Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions Last 5 Years

Statute	System	Law/Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost
No data records returned															

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
No data records returned						

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
No data records returned										

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
Ozone	No	--	Yes	8-Hour Ozone (1997)
Lead	No	--	No	--
Particulate Matter	No	--	No	--
Carbon Monoxide	No	--	No	--
Sulfur Dioxide	No	--	No	--

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

EJScreen Indexes Shown

Compare to

(●) US ( ) State

Index Type

( ) Environmental Justice (●) Supplemental

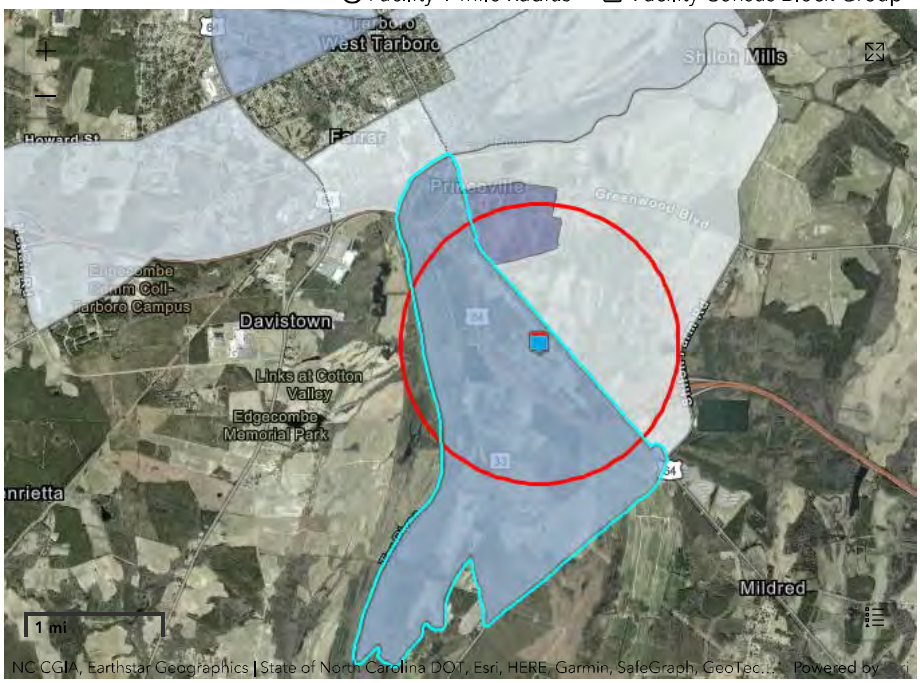
Related Reports

EJScreen Report

Download Data

Census Block Group ID: 370650209003	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	37	38
Ozone	70	71
Diesel Particulate Matter	56	57
Air Toxics Cancer Risk	! 95	! 95
Air Toxics Respiratory Hazard Index	! 80	! 81
Traffic Proximity	! 89	! 89
Lead Paint	65	69
Risk Management Plan (RMP) Facility Proximity	! 89	! 90
Hazardous Waste Proximity	60	65
Superfund Proximity	47	47
Underground Storage Tanks (UST)	! 90	! 96
Wastewater Discharge	79	! 81

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that thefacility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary.

General Statistics (U.S. Census)	
Total Persons	1,805
Population Density	572/sq.mi.
Housing Units in Area	698

General Statistics (ACS (American Community Survey))	
Total Persons	1,153
Percent People of Color	90%
Households in Area	429
Households on Public Assistance	2
Persons With Low Income	765
Percent With Low Income	66%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	35.874104
Center Longitude	-77.520812
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	97 (22.72%)
$15,000 - $25,000	78 (18.27%)
$25,000 - $50,000	136 (31.85%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	115 (6%)
Minors 17 years and younger	475 (26%)
Adults 18 years and older	1,330 (74%)
Seniors 65 years and older	186 (10%)

Race Breakdown (U.S. Census) - Persons (%)	
White	149 (8%)
African-American	1,626 (90%)
Hispanic-Origin	45 (2%)
Asian/Pacific Islander	1 (0%)
American Indian	5 (0%)
Other/Multiracial	25 (1%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	99 (13.75%)
9th through 12th Grade	126 (17.5%)
High School Diploma	319 (44.31%)
Some College/2-year	112 (15.56%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	38 (5.28%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
$50,000 - $75,000	83 (19.44%)
Greater than $75,000	33 (7.73%)

LAST UPDATED ON SEPTEMBER 21, 2022

DATA REFRESH INFORMATION

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RCRAInfo Facility

Facility Information

TCC LLC PROPERTY
Handler ID: NCS000002696
194 CONCRETE RD.
TARBORO, NC 27886
County Name: EDGECOMBE
Latitude: 35.874104
Latitude: -77.520812
Hazardous Waste Generator:
Owner Name:

**This facility is not mappable.*

NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE
VINTON FOUNTAIN III			
VINTON FOUNTAIN III			

HANDLER / FACILITY CLASSIFICATION

UNSPECIFIED UNIVERSE FOR THE FACILITY LISTED ABOVE.

HANDLER TYPE

Not in a universe

NO PROCESS INFORMATION IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

NO NAICS CODES ARE AVAILABLE FOR THE FACILITY LISTED ABOVE.

LIST OF WASTE CODES AND DESCRIPTIONS

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Frequent Questions <https://www.epa.gov/home/frequent-questions-specific-epa-programstopics>

Follow.

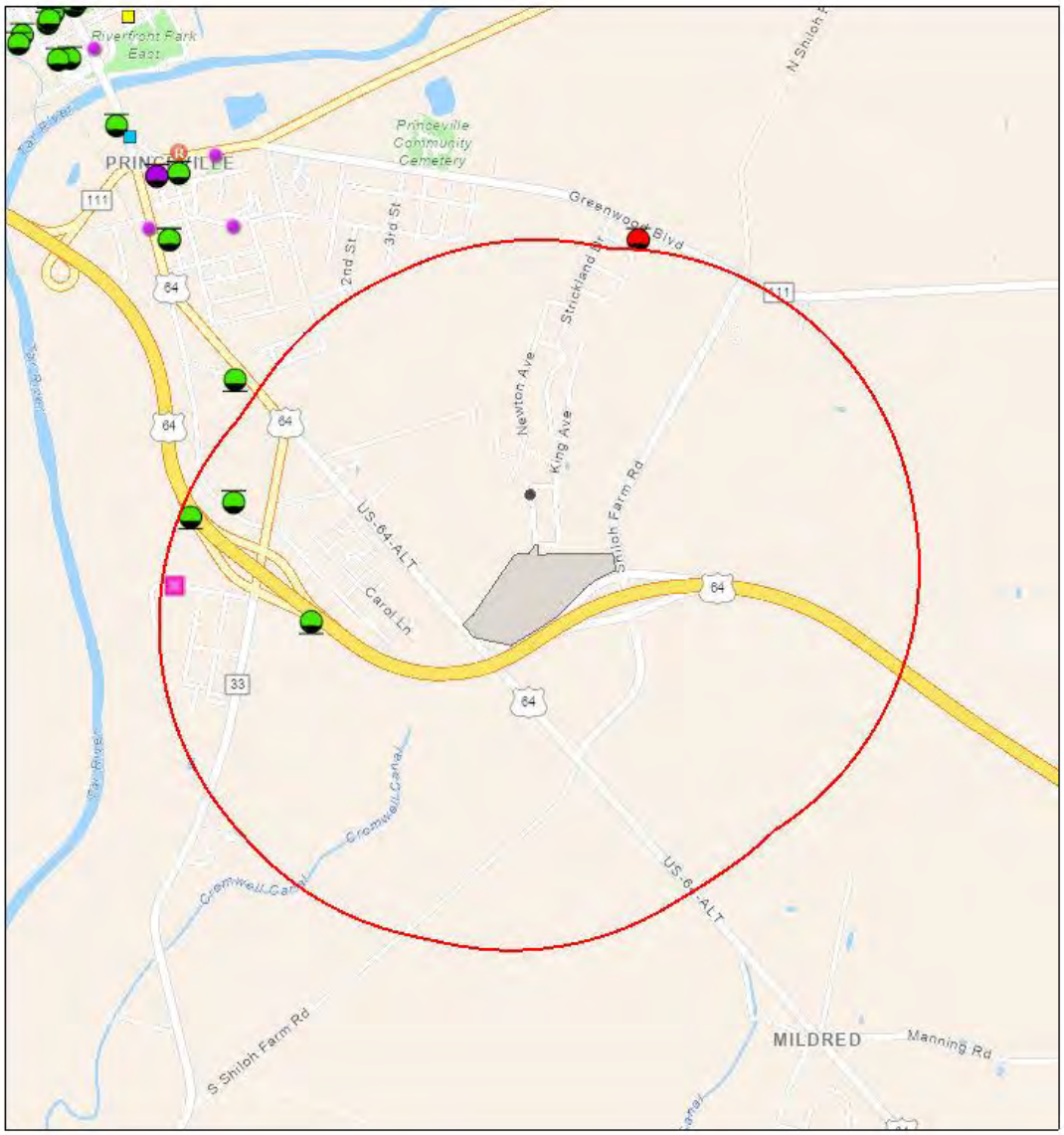
Last updated on May 12, 2023

Princeville 53-Acre Site - 1-mile Buffer Screening Report

Area of Interest (AOI) Information

Area : 125,627,194.35 ft²

Oct 10 2023 13:35:46 Eastern Daylight Time



1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Pre-Regulatory Landfill Sites
- Investigation
- DryCleaning Compliance
- DryCleaning Historical Boiler Inspections
- DryCleaning City Directories

UST Incidents
- High Risk
- Low Risk
- Unknown Risk

Non-UST Incidents
- Low Risk
- UST Active Facilities

Land Use Restriction and/or Notices
- Notice and Restriction

NCDOT GIS Unit, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Pre-Regulatory Landfill Sites

#	EPAID	SITENAME	Count
1	NONCD0000297	Princeville Dump	1

UST Incidents

#	IncidentNumber	IncidentName	Count
1	33370	Village Mart	1

Non-UST Incidents

#	IncidentNumber	IncidentName	Count
1	92487	Sygma Spill	1
2	92792	KM Pulley Trucking	1

Princeville Dump

LANDFILL SITE ASSESSMENT
Princeville Dump
NONCD0000297
Edgecombe County
HURRICANE LANDFILL ASSESSMENT PROJECT
STATE OF NORTH CAROLINA
CONTRACT NO. N200016
S&ME PROJECT NO. 1040-00-345F
VOLUME VI OF IX

Prepared for:

North Carolina Department of Environment and Natural Resources
Superfund Section
Inactive Sites Branch
401 Oberlin Road
Raleigh, North Carolina 27604

Prepared by:

S&ME, Inc.
3118 Spring Forest Road
Raleigh, North Carolina 27616

Christopher Hamblet
Environmental Scientist

Edmund Woloszyn, Jr., R.E.M.
Manager, Technical Applications Dept.

October 26, 2000

DATA SUMMARY SHEET

Site Name:	Princeville Dump
Site Identification Number:	NONCD0000297
County:	Edgecombe County
Date Reported:	October 26, 2000
Location:	Jenkins Street (SR 1622)
Site Entrance Coordinates:	Northing NAD83 (m): 742476 Easting NAD83 (m): 236155
Landfill Size:	~2 Acres
Date Opened:	1965
Date Closed:	1974
Directions:	Exit US Hwy. 64 at the State Hwy. 33 interchange. Go south on Hwy. 33 about one-half mile. Turn right on Dowens Street and proceed to Jenkins Street. Turn right on Jenkins Street. At the T-intersection, turn left on Jenkins Street and follow the road back to the power line easement.
Owner:	W.S. Clark Farms
Owner Contact:	S. Clark Jenkins
Owner Address:	PO. Box 310 1602 St. Andrews Street Tarboro, NC 27886
Owner Telephone Number:	(252) 823-7029

Notable Public Record Findings:

- According to the Land Disposal Site Investigation Report for the Princeville Refuse Disposal Area dated March 22, 1968, the site began operation in 1965 and received household and commercial waste. The site was listed as having surface drainage problems. The disposal area was approximately 5 acres in size and reportedly received an average of 6,240 cubic yards of solid waste per year.

- According to the Land Disposal Site Modification Report for the Princeville Dump dated June 18, 1974, the site was closed on April 1, 1974.

- In the 1989 aerial photograph, what appears to be exposed debris can be seen in the fill area at the northern portion of the power line easement.

Notable Site Observations:

- Exposed debris, including rusted drums, appliances, truck frames, and tires, were observed at the site.
- Debris, including shoes and plastic materials, was observed in nearby trees, possibly left behind by the high flood waters.

Identified Areas Of Concern:

- Overflow channel to the borrow-pit lake that flows adjacent to piles of debris at the site.
- Borrow-pit lake located north of the dump site.
- Rusted drums and other debris observed in the wooded area east of the power line easement.
- Tar River located west of the dump site.
- Sixteen (16) potable wells and one (1) shallow well within the search radius.

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Figure 3: Waste Disposal Area

APPENDICES

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Appendix II Database Listings (VISTA Report)
Appendix III Copies of Public Record Files
Appendix IV Questionnaire Forms
Appendix V Copies of Ownership Information
Appendix VI Photograph Record

1.0 INTRODUCTION

The purpose of this study is to evaluate the condition of the Princeville Dump, a closed landfill located in Edgecombe County. The study was undertaken on behalf of the North Carolina Department of Environment and Natural Resources (NCDENR), Superfund Section, Inactive Sites Branch (hereafter referred to as the Branch). The goal of this assessment is to provide the Branch with information regarding the Princeville Dump in order that the Branch may identify and evaluate potential threats to public health and/or the environment presented by this site. Such conditions may have resulted from or have been exacerbated by floodwaters or other causes related to Hurricane Floyd in September 1999. This report describes the procedures and results of this assessment including but not limited to: 1) obtaining the site's location and ownership information; 2) describing the site's current land use and the land use within 1,000 feet of the limits of the waste disposal area, (hereafter referred to as the search radius); and, 3) identifying Areas-of-Concern at the site that may merit further evaluation by NCDENR as to the need for possible corrective actions.

1.1 Methods

The methods used for this assessment of the Princeville Dump are described in detail in the document *Site Assessment Plan, Hurricane Landfill Assessment Project, State of North Carolina Contract No. N200016* prepared by S&ME and dated July 14, 2000 (hereafter referred to as the SAP). In accordance with that plan, S&ME performed the following tasks to survey the site:

Task 1 –Identify and confirm the site location. This task involved the review of aerial photographs, maps, and interviews of people potentially knowledgeable of the site. Once identified, this location was confirmed by physical observation in the field.

Task 2 - Review available public records regarding the Princeville Dump to identify current ownership of the site, to collect readily available historical and current information of the site, and to review public records for other sites listed in environmental databases for an area within the search radius.

Task 3 – Interview owners, neighbors, and local public officials to gather local knowledge regarding the historical aspects of the site's operational history and to obtain current environmental-related information about the site.

Task 4 – Conduct an on-site reconnaissance of the property and a non-invasive reconnaissance of the adjacent properties within the search radius for visual indications of Areas-of-Concern (AOCs), current site usage, site and vicinity characteristics, surface water bodies, water intakes, and water supply wells.

1.2 Limitations

Limitations to the scope of work detailed in the SAP may be imposed by limited or no public records regarding the site, difficulty in finding the actual location of the waste deposits, and the presence of physical obstructions, such as paved areas and dense vegetation. Based on the tasks described above, the limitations for this site are as follows:

- Portions of the waste disposal area were covered by dense brush.
- S&ME collected coordinate data at areas-of-concern, water supply wells and site entrance locations using a differentially corrected global positioning system unit. These coordinates were not obtained by a registered land surveyor and are not intended to represent surveyed locations for use in legal documents (e.g., deeds, tax maps, property maps, etc.). These coordinates are intended for general information purposes only and not to be used as surveyed data points.

2.0 SITE IDENTIFICATION AND LOCATION

Initial information on the identification and location of the Princeville Dump was provided by the Branch in the form of their "Old Landfill" database. The site's estimated latitude and longitude coordinates were plotted on a digitized United States Geological Survey (USGS) Topographic Map. Using this preliminary location, S&ME reviewed NCDENR's Solid Waste Division's Landfill Section's files to obtain additional information about the site and its location.

Attempts were made to obtain aerial photographs of the site taken during the time that the site was operational to better approximate the site's location and limits of operation. A recent aerial photograph was also sought to show the site's current condition and vicinity characteristics/land use within the search radius. The search for aerial photographs included sources at the North Carolina Department of Transportation, Photogrammetry Unit in Raleigh, North Carolina and the United States Department of Agriculture's Soil Conservation Service Office and the county tax and planning offices. Copies of aerial photographs reviewed by S&ME are included as Appendix I.

To verify the landfill location from information found in NCDENR files and as observed in the aerial photographs and file records, S&ME made a preliminary site non-entry visit. During this visit, attempts were also made to contact local residents for additional confirmation of site history and location.

Based on the methods for identifying and verifying the site's location as described above, the following information relating to the closed dump was determined:

Site Name:	Princeville Dump
Site Identification Number:	NONCD0000297
Site's Address:	Jenkins Street (SR 1622) Tarboro, NC 27886
County:	Edgecombe County
Coordinates of Site's Entrance:	Northing NAD83 (m): 742476 Easting NAD83 (m): 236155
Landfill Size:	~2 Acres
Date Opened:	1965
Date Closed:	1974
Directions to the Site:	Exit US Hwy. 64 at the State Hwy. 33 interchange. Go south on Hwy. 33 about one-half mile. Turn right on Dowens Street and proceed to Jenkins Street. Turn right on Jenkins Street. At the T-intersection, turn left on Jenkins Street and follow road back to the power line easement.

Details of the public records review, ownership information search, initial site visit and site reconnaissance are described in the following sections.

3.0 PUBLIC RECORD REVIEW

Once the site's location was verified, S&ME proceeded with a review of readily available NCDENR public records. The purpose of the public record review was to identify the site's owner and to collect copies of public documents that may be relevant for evaluating the site. To identify available files at NCDENR's central or regional offices, S&ME reviewed several State and EPA databases. These environmental regulatory database listings were obtained from VISTA Information Solutions, Inc. (VISTA) of San Diego, California regarding the Princeville Dump and possible sites/facilities within the search radius. A copy of the VISTA report is provided in Appendix II.

In addition to researching available public files at the state level, S&ME contacted local government agencies (e.g., county/city agencies, planners, health departments, utility agencies, etc.) to obtain information regarding the site's history and current status. Information sought from these agencies included current or recent construction/building permits, drinking water usage and problems, availability of utilities (municipal water supplies, community well systems, sewer services, etc.), and waste disposal history for municipally operated sites.

The results of our review of NCDENR and local records regarding the Princeville Dump are presented in Sections 3.1 through 3.3. Details of records judged pertinent to the site are included in Appendix III.

3.1 NCDENR Files

S&ME reviewed the database listings obtained from NCDENR and from the VISTA report concerning North Carolina State Inactive Hazardous Sites. The Princeville Dump was not listed as a North Carolina State Hazardous Site. No North Carolina State Hazardous Sites were identified within the search radius.

3.2 Other NCDENR Files

Additional NCDENR files were reviewed based on information gathered from the Branch files or the VISTA report. Based on the findings for the Princeville Dump, files of the Division Water Resources, Division of Waste Management, Division of Water Quality, and the Division of Air Quality were reviewed. Our review of this information did not indicate the presence of other listed sites within the search radius.

S&ME reviewed the NC Solid Waste Section files regarding the Princeville Dump. According to the Land Disposal Site Investigation Report for the Princeville Refuse Disposal Area dated March 22, 1968, the site began operations in 1965 and received household and commercial waste. The site was listed as having surface drainage problems. The site was approximately reported to be five acres in size and received an average of 6,240 cubic yards of solid waste per year. However, after the site reconnaissance, S&ME determined that the extent of fill was only about 2 acres (see Figures 1 and 2). According to the Land Disposal Site Modification Report for the Princeville Dump dated June 18, 1974, the site was closed on April 1, 1974.

S&ME reviewed the U.S. Fish and Wildlife Service National Wetlands Inventory map of the Old Sparta Quadrangle dated 1994. According to the wetlands map, the western portion of the property adjacent to the Tar River has been classified as forested palustrine wetlands that are temporarily or seasonally flooded.

3.3 City/County Files and Interviews

S&ME visited and interviewed local county agencies and agency representatives to collect historical and current information regarding the Princeville Dump. The following local agencies and their representatives were contacted or visited regarding the Princeville Dump:

- Mr. A. B. Whitley, III, District Conservationist, USDA Soil Conservation Service
- Mr. Bridgers, former Mayor of Princeville

During the interviews, S&ME inquired about the site's current and past use and history. The former district sanitarian, Mr. Fred Wood, was asked a standard set of questions listed in a questionnaire form. A copy of the questionnaire form or a Record of Communication for each interview is included in Appendix IV of this report. The following is a summary of responses to our inquiries.

Mr. Whitley stated that he was aware of the Princeville Dump site and said that it was an unmanned, informal site where dumping had occurred. He indicated that the former Mayor of Princeville, Mr. Bridgers, may have some historical knowledge of the site. S&ME contacted Mr. Bridgers, but he stated that he was not aware of dumping at the site's location.

3.4 Aerial Photographs

S&ME reviewed aerial photographs dated November 1964 and March 1989 showing the site. These photographs were obtained from the US Department of Agriculture – Soil Conservation Service and the Edgecombe County Tax Office. Copies of these photographs are included in Appendix I.

Date	Scale	Source	Frame Reference
11/29/64	No scale	U.S. Dept. of Agriculture-Natural Resources Conservation Service	ABR-1FF-114
3/89	1"=400'	Edgecombe County Tax Office	4737

The site appears mostly undeveloped and wooded in the November 1964 photograph. A power line easement crosses the eastern portion of the site. An unpaved road can be seen in the central portion of the site.

In the March 1989 aerial photograph, what appears to be exposed debris can be seen in the fill area at the northern portion of the power line easement. Most of the easement appears to have been used for agriculture. The site access road can be seen on the northern portion of the site. The remaining portion of the property appears undeveloped and wooded.

3.5 Record Review Summary

Based on our public record review and interviews of state and local agency representatives, the following is a summary of our findings:

- According to the Land Disposal Site Investigation Report for the Princeville Refuse Disposal Area dated March 22, 1968, the site began operation in 1965 and received household and commercial waste. The site was listed as having surface drainage problems. The disposal area was approximately 5 acres in size and received an average of 6,240 cubic yards of solid waste per year.

- According to the Land Disposal Site Modification Report for the Princeville Refuse Disposal Area dated June 18, 1974, the site was closed on April 1, 1974.

- In the March 1989 aerial photograph, what appears to be exposed debris can be seen in the fill area at the northern portion of the power line easement.

- According to the U.S. Fish and Wildlife Service National Wetlands Inventory map dated 1994, the western portion of the property adjacent to the Tar River has been classified as forested palustrine wetlands that are temporarily or seasonally flooded.

4.0 OWNERSHIP INFORMATION

After the location of the Princeville Dump was confirmed, the site's ownership information was obtained from the Edgecombe County County Tax office and Register of Deeds office. S&ME used the information obtained from the public records review to identify and locate the site's tax identification number, tax parcel number, street address, owner's mailing address, size and relevant deed information. Copies of documents obtained from the County Revenue office and Register of Deeds office are included in Appendix V. A summary of site information is as follows:

Owner Name	Address	City	State	Zip	Phone
W.S. Clark Farms	PO. Box 310 1602 St. Andrews Street	Tarboro	NC	27886	(252) 823-7029

Owner Name	Tax ID	PIN	Deed Book Ref
W.S. Clark Farms	6480	4737-44-6480	Book 1145/ Page 0480

5.0 INITIAL SITE VISIT

S&ME performed an initial site visit on August 31, 2000. The purpose of the initial visit was to verify the location of the Princeville Dump, to gather information regarding land use characteristics of the site, its vicinity, to perform a well survey within the search radius, and to interview neighbors. Information gained during the public record search and review of topographic maps and aerial photographs was also used to assist in identifying the site and its physical setting.

5.1 Topography

S&ME examined the USGS topographic map of the Old Sparta Quadrangle, dated 1981 (Figure 1). Based on our review of this source and our site reconnaissance, the topography around the dump site is relatively flat, but slopes gradually west toward the banks of the Tar River. The Tar River forms the west boundary of the property where the dump site is located.

5.2 Land Use/Development

Based on our initial site visit and our review of the topographic map and recent aerial photographs, the site and its vicinity are described as follows:

The Princeville Dump and vicinity are in a rural setting. The borrow-pit lake and the power line easement occupy the property north of the site. The property east of the site is both wooded and residential. The residential areas consist mostly of single family homes. The property south of the site is either wooded or part of the power line easement. The power line easement is covered by tall grasses and shrubs. The property west of the site is undeveloped, consisting of wooded and wetland areas situated between the waste disposal area and the Tar River.

S&ME reviewed the U.S. Fish and Wildlife Service National Wetlands Inventory map of the Old Sparta Quadrangle dated 1994. According to the wetlands map, the area west of the power line easement to the Tar River has been classified as forested palustrine wetlands that are temporarily or seasonally flooded.

5.3 Groundwater and Surface Water Resources

During the preliminary site visit, S&ME conducted a visual well survey along roadways that were within the search radius looking for evidence of wells and public and private water systems. Where permission was received to access the property, well locations were recorded using a dGPS. Otherwise, the well locations were estimated using the property address or dGPS coordinates from a street location closest to the well's location. Sixteen (16) water supply wells and one (1) shallow well were identified within the search radius. Pertinent information on these wells is shown on Table 1. The locations of these wells are shown on Figure 3.

Based on information collected from interviews of county personnel, the site area is not served by a public or community water supply system. This information was confirmed by observations in the vicinity of the site during the initial site visit.

Using topographic maps, aerial photographs and visual observations during the of initial site visit, S&ME identified the following surface water bodies within the search radius:

- A borrow-pit lake located north of the dump site (see Figure 3).
- An overflow channel for the borrow-pit lake flows adjacent along the north side of the dump site (see Figure 3).
- The Tar River is located west of the dump site. This section of the river adjacent to the property boundary flows north to south (see Figure 3).

In addition to identifying surface water bodies within the search radius, S&ME also attempted to identify surface water intakes for drinking water supply systems. No surface water intake systems were identified within the search radius.

6.0 SITE RECONNAISSANCE

Once access permission to the site was obtained from the property owner, S&ME performed a site reconnaissance at the Princeville Dump. The purpose for the site reconnaissance was to record the physical characteristics of the site, which included the identification, if any, of AOCs or potential AOCs. As described in the SAP, AOCs included, but were not limited to, the following conditions in the waste disposal area:

- Slope failure
- Excessive Erosion
- Leachate seeps
- Significant settling
- Standing Water
- Stressed vegetation
- Human activity
- Stained soil
- Noticeable odors

S&ME personnel looked for visual evidence of water inundation on the site as an indication of flooding, and interviewed people knowledgeable of the site to determine if they were aware of flooding from Hurricane Floyd.

During the site reconnaissance, observations of AOCs and general site conditions were recorded and color photographs were taken (Appendix VI). Using dGPS coordinates, S&ME recorded the latitude and longitude of the site entrance and AOCs to the extent that they were identified at the site. The coordinates are in North American Datum of 1983, North Carolina Plane Coordinate System in meters, as requested by the branch.

S&ME also attempted to establish coordinates of points on the site's property boundaries. Where property markers were not readily evident, property boundaries were estimated using information made available to S&ME by the owner/occupant of the site, Tax Map information or from aerial photographs. S&ME also obtained GPS coordinates on the boundary of the waste disposal areas. The following sections describe our observations made during our site reconnaissance.

6.1 Site Description

The dump site is approximately two acres in size on a 46-acre tract. The property is generally wooded and undeveloped other than the area of the power line easement. The easement crosses the property, including the waste disposal area, in an approximate north-south-direction. Exposed debris at the site are present in the power line easement near the access road as well as in wooded areas adjacent to the power line easement. The Tar River is approximately 1,200 feet west of the debris area. The dump site is accessed by a dirt road off of Jenkins Street parallel to the borrow-pit lake. At the time of our site reconnaissance, S&ME observed visual evidence of flooding. Plastic, shoes, and pieces of wood were observed hanging in nearby trees, presumably left behind by the flood waters. In addition, many homes that are adjacent to the dump site property had evidence of flood damage, such as mud from high flood waters on the outside walls. Many nearby homes were abandoned.

6.2 Waste Disposal Area

S&ME walked the site to identify the limits of the waste disposal area (fill area). During our reconnaissance, S&ME could not ascertain the limits of the fill area based on visual observations. The size of the fill area was estimated using aerial photographs. However, exposed debris was observed at the dump site. Piles of debris, limbs and branches near the access road had become overgrown with tall grasses and shrubs. Appliances, tires, concrete, bricks, wood pallets, limbs and residential trash were exposed in the power line easement area. Rusted drums, old truck frames, and an above-ground storage tank were observed in wooded areas at the site. The overflow channel for the borrow-pit lake is adjacent to the piles of debris within the power line easement.

6.3 Areas of Concern

The coordinates, descriptions and related photographs of the AOCs are described in detail in Table 2. There were five AOCs located on or near the site. The first AOC is the overflow channel from the borrow-pit lake that flows adjacent to piles of debris at the

site. The second AOC is the borrow-pit lake itself, which is located north of the dump site. The third AOC is the wooded area east of the power line easement where rusted drums and other debris were observed. The Tar River located west of the dump site is also identified as the fourth AOC. The fifth AOC is the presence of sixteen (16) potable wells and one (1) shallow well within the search radius.

7.0 SUMMARY

S&ME performed assessment activities for the Princeville Dump following the procedures presented in the *Site Assessment Plan, Hurricane Landfill Assessment Project, State of North Carolina Contract No. N200016* prepared by S&ME, Inc. dated July 14, 2000. The following is a summary of assessment findings.

7.1 Site Location and Ownership

Site Information

Site Name:	Princeville Dump
Site Identification Number:	NONCD0000297
Site's Address	Jenkins Street (SR 1622) Tarboro, NC 27886
County:	Edgecombe County
Coordinates of Site's Entrance:	Northing NAD83 (m): 742476 Easting NAD83 (m): 236155
Landfill Size:	~2 Acres
Date Opened:	1965
Date Closed:	1974
Directions to the Site:	Exit US Hwy. 64 at the State Hwy. 33 interchange. Go south on Hwy. 33 about one-half mile. Turn right on Dowens Street and proceed to Jenkins Street. Turn right on Jenkins Street. At the T-intersection, turn left on Jenkins Street and follow road back to the power line easement.

Site Owner Information

Owner Name:	W.S. Clark Farms
Owner Contact:	S. Clark Jenkins
Owner Mailing Address:	PO. Box 310 1602 St. Andrews Street Tarboro, NC 27886
Owner Telephone Number:	(252) 823-7029
Tax parcel number/PIN No.:	6480/4737-44-6480
Deed Reference:	Book 1145/Page 0480

7.2 Public Record Review

The following public records were reviewed for the Princeville Dump and for sites listed on environmental database listings within the search radius.

Agency	Item Copied
Edgecombe County Tax Office	GIS Land Records, Cadastrals
USDA-NRCS	Aerial Photos
Edgecombe County Register of Deeds	Deed
NCDENR-Solid Waste Section	Land Disposal Site Investigation Report, 3/22/68
NCDENR-Solid Waste Section	Land Disposal Site Modification Report, 6/18/74
US Fish and Wildlife Service	National Wetland Inventory Map

- According to the Land Disposal Site Investigation Report for the Princeville Refuse Disposal Area dated March 22, 1968, the site began operation in 1965 and received household and commercial waste. The site was listed as having surface drainage problems. The disposal area was approximately 5 acres in size and received an average of 6,240 cubic yards of solid waste per year.

- According to the Land Disposal Site Modification Report for the Princeville Dump dated June 18, 1974, the site was closed on April 1, 1974.

- In the 1989 aerial photograph, what appears to be exposed debris can be seen in the fill area at the northern portion of the power line easement.

- According to the U.S. Fish and Wildlife Service National Wetlands Inventory map dated 1994, the area west of the power line easement to the Tar River has been classified as forested palustrine wetland that are temporarily or seasonally flooded.

7.3 Site Vicinity Setting/Characteristics

Based on a review of topographic maps, available aerial photographs, and site reconnaissance, the site and vicinity characteristics are generally rural. A borrow-pit lake and a power line easement occupy the property north of the dump site. The property east of the dump site is both wooded and residential, with the residential sites consisting

mostly of single family homes. The property south of the dump site is either wooded or part of the power line easement. The power line easement is covered by tall grasses and shrubs. The property west of the dump site is undeveloped, consisting of wooded and wetland areas located between the dump and the Tar River.

During our review of the site and vicinity characteristics, S&ME performed a well survey and a survey for surface water bodies and surface water intakes at and within the search radius. There are sixteen (16) potable wells and one (1) shallow well, all east and topographically upgradient of the dump site. One stream or drainage channel flows parallel and north of the dump site, and one borrow-pit lake is north of the dump site. No surface water intakes were identified within the search radius.

7.4 Site Reconnaissance

S&ME performed a site reconnaissance at Princeville Dump on August 31, 2000. Using aerial photographs, the site was estimated at approximately two acres in size on a 46-acre site. The property is generally wooded and undeveloped other than the area of the power line easement, the property is generally wooded and undeveloped. Exposed debris at the site is present in the power line easement near the access road as well as in wooded areas adjacent to the power line easement. The Tar River is approximately 1,200 feet west of the debris area.

7.5 Areas of Concern

S&ME observed five AOCs during our site reconnaissance and found evidence in the public record of other potential concerns:

- Overflow channel to the borrow-pit lake that flows adjacent to piles of debris at the site.
- Borrow-pit lake located north of the dump site.

- Rusted drums and other debris observed in the wooded area east of the power line easement.
- Tar River located 1,200 feet west of the dump site.
- Sixteen (16) potable wells and one (1) shallow well within the search radius.

TABLES

Table 1
WELL SURVEY RESULTS
Page 1 of 2

Well Number	Northing NAD83 (meters)	Easting NAD83 (meters)	Owner's Name	Street Address	Type of Well	Distance and directions from site	Operational? (Yes/No)	In Use? (Yes/No)
Well 1	742610	236094	Chaney	Rt. 7 Box 446 Princeville, NC	Potable	550 ft. east of site	Yes	Yes
Well 2	742591	235991	No Data	Rt. 7 Box 429 Princeville, NC	Potable	1,000 ft. southeast of site	Yes	Yes
Well 3	742538	235684	R.E. Hays	Rt. 7 Box 431 Princeville, NC	Potable	1,250 ft. south of site	Yes	Yes
Well 4	742533	235660	No Data	Rt. 7 Box 432 Princeville, NC	Potable	1,350 ft. south of site	Yes	Yes
Well 5	742547	235716	T. and K. Dewery	Rt. 7 Box 436 Princeville, NC	Potable	1,250 ft. southeast of site	Yes	Yes
Well 6	742579	235877	Richard Flint	Rt. 7 Box 440 Princeville, NC	Potable	900 ft. southeast of site	Yes	No
Well 7	742750	236093	Exum	Rt. 7 Box 408 Princeville, NC	Potable	1,000 ft. east of site	Yes	Yes
Well 8	742742	236055	Stalls	Rt. 7 Box 409 Princeville, NC	Potable	1,050 ft. east of site	Yes	Yes
Well 9	742726	235959	John Abrams	Rt. 7 Box 413 Princeville, NC	Potable	1,100 ft. east of site	Yes	Yes
Well 10	742719	235927	No Data	Rt. 7 Box 414 Princeville, NC	Potable	1,100 ft. east of site	Yes	Yes
Well 11	742716	235899	Hucks	Rt. 7 Box 416 Princeville, NC	Potable	1,200 ft. east of site	Yes	Yes
Well 12	742710	235869	No Data	Rt. 7 Box 417 Princeville, NC	Potable	1,200 ft. east of site	Yes	Yes
Well 13	742688	235736	Howard Parrish	Rt. 7 Box 419 Princeville, NC	Potable	1,400 ft. southeast of site	Yes	Yes

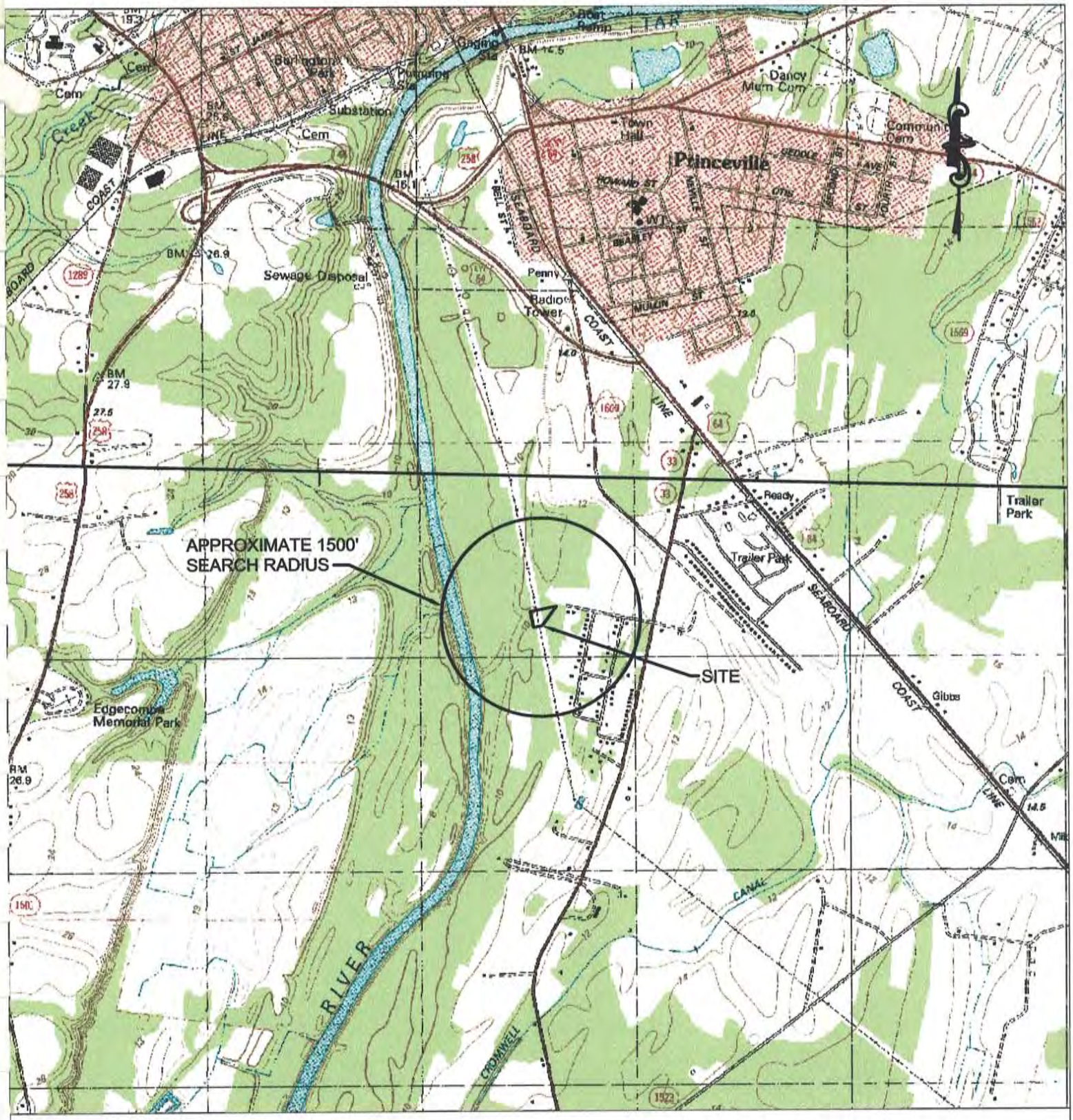
Table 1
WELL SURVEY RESULTS
Page 2 of 2

Well Number	Northing NAD83 (meters)	Easting NAD83 (meters)	Owner's Name	Street Address	Type of Well	Distance and directions from site	Operational? (Yes/No)	In Use? (Yes/No)
Well 14	742741	236018	No Data	Rt. 7 Box 412 Princeville, NC	Potable	1,300 ft. east of site	Yes	Yes
Well 15	742748	236055	No Data	Rt. 7 Box 410 Princeville, NC	Potable	1,200 ft. east of site	Yes	Yes
Well 16	742755	236093	Denny	Rt. 7 Box 411 Princeville, NC	Potable	1,200 ft. east of site	Yes	Yes
Well 17	742424	236138	W.S. Clark Farms	P.O. Box 310 Tarboro, NC	Shallow	On-site	No	No

Table 2
AREAS OF CONCERN

AOC Number	Northing Central Point Coordinate NAD83 (meters)	Easting Central Point Coordinate NAD83 (meters)	Description	Estimated Size	Photograph Reference
1	742370	236194	Overflow channel to the borrow-pit lake.	~ 400 ln. ft.	2
2	742370	236212	Borrow-pit lake north of landfill.	~3.0 ac	2
3	742402	236135	Exposed drums and debris.	~1.0 ac	3,4,5
4	741987	236134	Tar River located west of dump site.	N/A	No data
5	See Table 1		Sixteen (16) potable wells and one (1) shallow well within the search radius	N/A	No data

FIGURES



2000 0 2000

GRAPHIC SCALE IN FEET

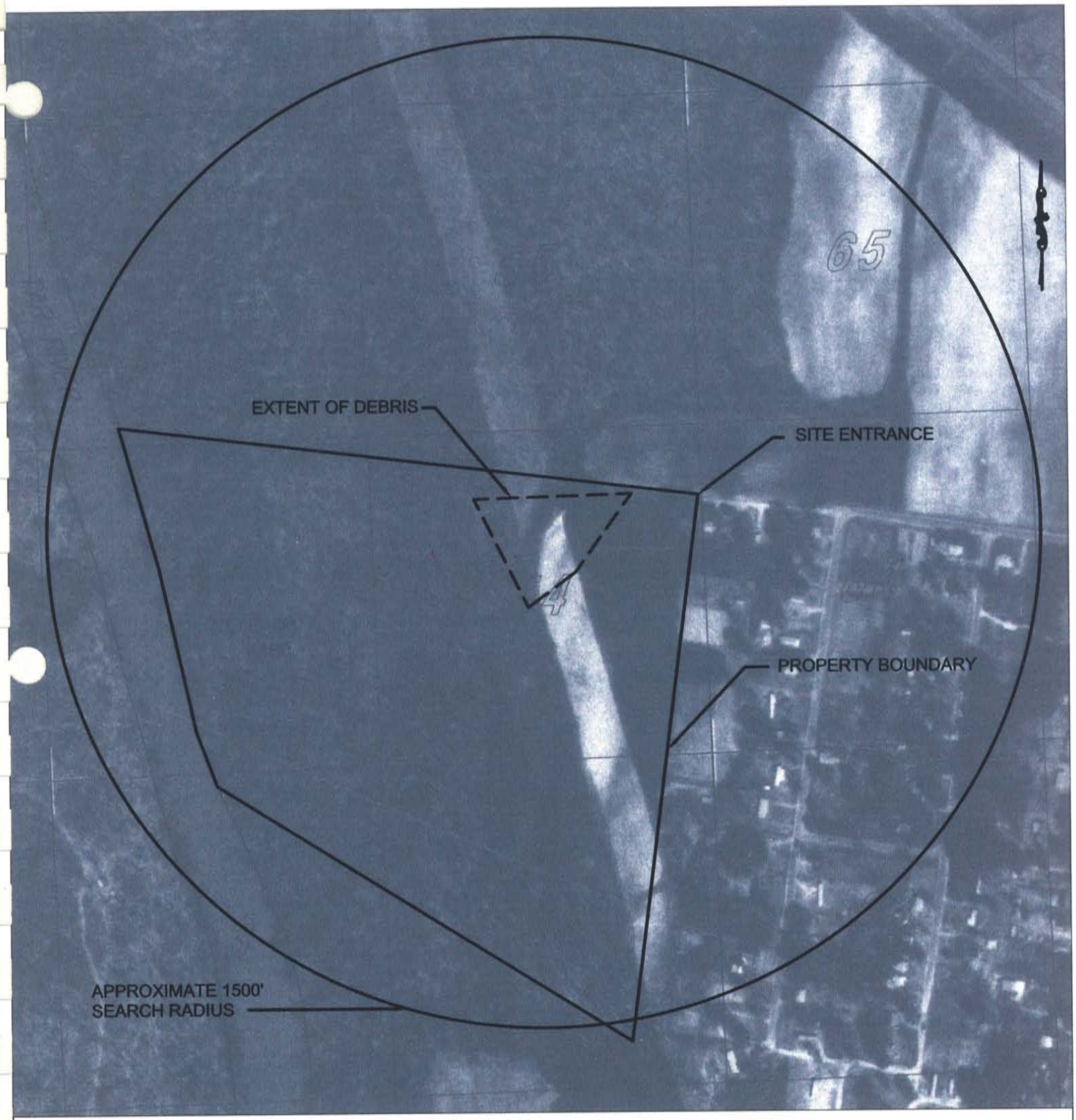
TARBORO, NC USGS QUADRANGLE DATED 1981
OLD SPARTA, NC USGS QUADRANGLE DATED 1981

VICINITY SITE MAP

PRINCEVILLE DUMP
PRINCEVILLE, NC

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

Job No. 1040-00-345F
Scale: 1" = 2000'
Fig No. 1



400 0 400

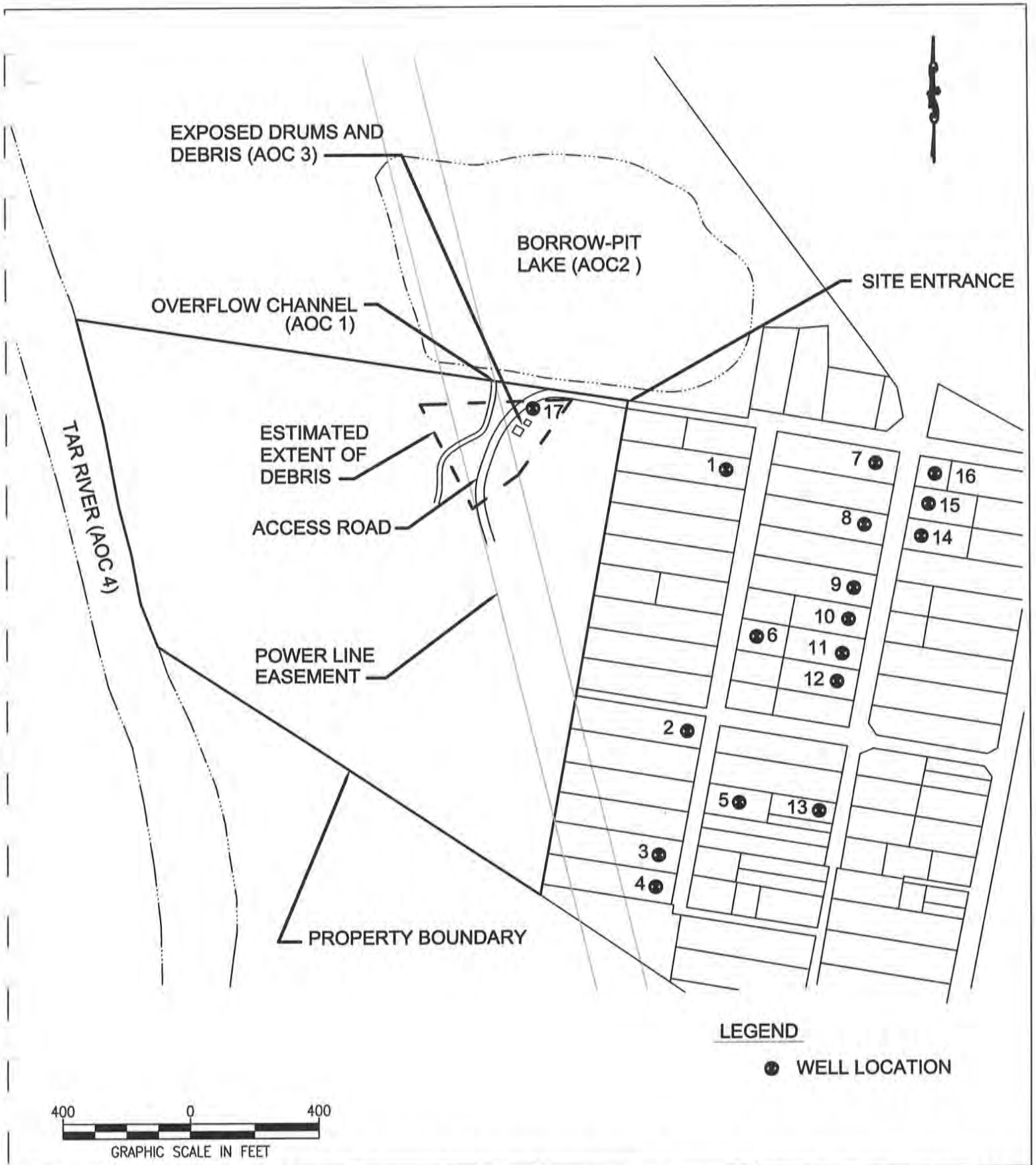
GRAPHIC SCALE IN FEET

PROPERTY PLAN

PRINCEVILLE DUMP
PRINCEVILLE, NC

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

Job No. 1040-00-345F
Scale: 1" = 400'
Fig No. 2



WASTE DISPOSAL AREA

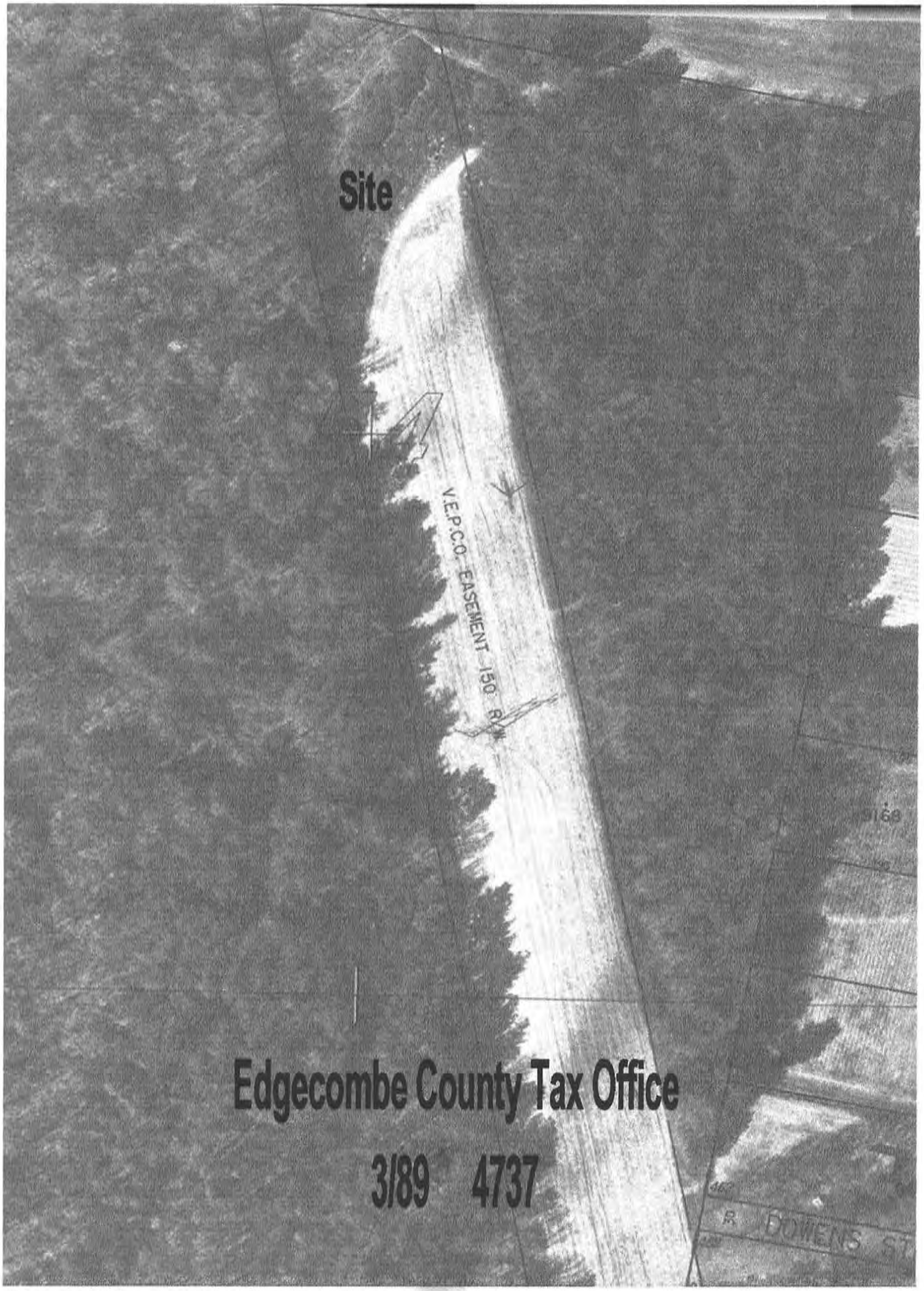
PRINCEVILLE DUMP
PRINCEVILLE, NC

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

Job No. 1040-00-345F
Scale: 1" = 400'
Fig No. 3

APPENDIX I

Site
USDA - Soil Conservation Service
Aerial Photograph Dated 11/29/64
ABR-1FF-114



Edgecombe County Tax Office

3/89 4737

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/2 MILE)

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 1040-00-345 F Princeville Dump Jenkins Road Princeville, NC Latitude/Longitude: (35.867661, 77.530707)	Chris Hamblet SME, Inc. 3118 Springforest Road Raleigh, NC 27616

Site Distribution Summary Agency / Database - Type of Records			within 5/8 mile	5/8 to 3/4 mile	3/4 to 1 mile	1 to 1 1/2 mile
A) Databases searched to 1 1/2 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions	0	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
B) Databases searched to 1 mile:						
STATE	SCL	State equivalent CERCLIS list	0	0	0	-
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	0	0	0	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE REG CO	LUST	Leaking Underground Storage Tanks	0	0	0	-
STATE/ REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
USGS/STATE	WATER WELLS	Federal and State Drinking Water Sources	0	0	0	-
C) Databases searched to 3/4 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	0	0	-	-
US EPA	TRIS	Toxic Release Inventory database	0	0	-	-
STATE	UST/AST	Registered underground or aboveground storage tanks	0	0	-	-

Site Distribution Summary

Agency / Database - Type of Records			within 5/8 mile	5/8 to 3/4 mile	3/4 to 1 mile	1 to 1 1/2 mile
D) Databases searched to 5/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	0	-	-	-
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	0	-	-	-
STATE	SPILLS	State spills list	0	-	-	-

This report meets the ASTM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a distance not searched because it exceeds these ASTM search parameters.

LIMITATION OF LIABILITY
Customer proceeds at its own risk in choosing to rely on VISTA services, in whole or in part, prior to proceeding with any transaction. VISTA cannot be an insurer of the accuracy of the information, errors occurring in conversion of data, or for customer's use of data. VISTA and its affiliated companies, officers, agents, employees and independent contractors cannot be held liable for accuracy, storage, delivery, loss or expense suffered by customer resulting directly or indirectly from any information provided by VISTA.

NOTES

SITE ASSESSMENT PLUS REPORT
(EXTENDED BY 1/2 MILE)

SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 5/8 mile)	A			B						C			D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																

MAP ID	SITES IN THE SURROUNDING AREA (within 5/8 - 3/4 mile)	A			B						C			D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																

MAP ID	SITES IN THE SURROUNDING AREA (within 3/4 - 1 mile)	A			B						C			D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																

MAP ID	SITES IN THE SURROUNDING AREA (within 1 - 1 1/2 mile)	A			B						C			D		
	VISTA ID / DISTANCE / DIRECTION	NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																

UNMAPPED SITES	VISTA ID	A			B						C			D		
		NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
WAREHOUSE ROUTE 1 TARBORO (SR 1600) TARBORO, NC 27886	2468675												X			
FARMER OIL CO. HIGHWAY 258 NORTH TARBORO, NC 27886	2445224												X			
BARNHILL CONTRACTING - APCO NCSR 1518 TARBORO, NC 27886	4066231								X							
DD GROCERY 258 NORTH TARBORO, NC 27886	2458639												X			
W J EASON STORE HWY 64 TARBORO, NC 27886	2466037												X			
BARNHILL CONTRACTING COMPANY SR 1243 TARBORO, NC 27886	3664681								X							
EVERETTE GROCERY GRILL (SOL N.C. HIGHWAYS 97 258 TARBORO, NC 27886	2447803												X			
W. NORTHERN BOULEVARD TARBORO, NC 27886	5014092							X								
N MAIN ST. TARBORO, NC 27886	3057734							X								
NC DOT - TARBORO STATE ROAD 1006 TARBORO, NC 27886	8686281							X								
LONG TRAILER CO INC HWY 44 WEST/TARBORO TARBORO, NC 27886	5165344								X							
MAIN CHURCH ST. TARBORO, NC 27886	5298767							X								
258 COUNTRY STORE ROUTE 4 TARBORO, NC 27886	2465303												X			
TARBORO AIRPORT HWY 33 TARBORO, NC 27886	6470521												X			
W.L. JONES HIGHWAY 258 SO. DAVISTOWN ROAD TARBORO, NC 27886	2452311												X			
HANDY MART #13 U.S. 64 BUSINESS TARBORO, NC 27886	2469178												X			

UNMAPPED SITES	VISTA ID	A			B						C			D		
		NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
HANDY MART #12 MAIN HOWARD STREET TARBORO, NC 27886	4432746							X								
NC DOT - TARBORO (DIV FOUR) S.R. 1205 2 MILES SW TARBORO TARBORO, NC 27886	6583521												X			
WALSTON'S GROCERY ROUTE 2 HWY 97 TARBORO, NC 27886	2463888												X			
CENTRE ST. ANDREW ST. TARBORO, NC 27886	3056214							X								
TARBORO ASPHALT PLANT TARBORO, NC 27886	5541959												X			
TARBORO T.S. TARBORO, NC 27886	3256126												X			
QUIGLESS FARM RTE 1 TARBORO, NC 27886	2462390												X			
EDGECOMBE COUNTY LANDFILL SR 1601 TARBORO, NC 27886	2461040								X							
BOYD'S SHELL MAIN HOWARD AVENUE TARBORO, NC 27886	5013750							X								
BATTS GROCERY HOWARD AVENUE EXTENSION TARBORO, NC 27886	2455074							X					X			
US 64 NC33 TARBORO, NC 27886	3058062							X								
HELIPORT TARBORO - EDGECOMBE AIRPORT TARBORO, NC 27886	3259740												X			
258 MINI MART HWY 258 TARBORO, NC 27886	3259259												X			
CAROLINA ENTERPRISES PLANT #1 DANIEL STREET EXTENSION TARBORO, NC 27886	2452126												X			
LEWIS' GROCERY TARBORO HIGHWAY TARBORO, NC 27886	2468661												X			
JENKINS CORP. ST JAMES STREET EXT TARBORO, NC 27886	2468187												X			
RICHARD TREVATHAN ROUTE 3, BOX 264 TARBORO, NC 27886	2464796												X			

UNMAPPED SITES	VISTA ID	A			B						C			D		
		NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
LONG'S SUPERMARKET ROUTE 2, BOX 387 TARBORO, NC 27886	3889013												X			
WALTER L. LANIER ROUTE 3, BOX 196 TARBORO, NC 27886	2464795												X			
EDGECOMBE FIRE TOWER ROUTE 3, BOX 143 TARBORO, NC 27886	2464793												X			
CLOTEA EDWARDS RTE 4 BOX 670 TARBORO, NC 27886	2465305												X			
VILLAGE MART ROUTE 7, BOX 447 TARBORO, NC 27886	7252555												X			
HOLLOMAN'S MID LAKES GROCERY HWY.64 BOX 303A TARBORO, NC 27886	5384429												X			
PO BOX 1470/ 1 ROYSTER ST TARBORO, NC 27886	5347422							X								
PO BOX 1157 TARBORO, NC 27886	5346709							X								
NC ARMY NATIONAL GUARD ARMORY P.O. BOX 1176 WALNUT PANOLA ST. TARBORO, NC 27886	5384570												X			
L W GROCERY GRILL #1 ROUTE 2, HWY 258 TARBORO, NC 27886	5014388												X			
RT 6, BOX 133 TARBORO, NC 27886	3058931							X								
F.S. ROYSTER MERCANTILE CO. 1 ROYSTER STREET TARBORO, NC 27886	1780973												X			
LONG TRAILER CO ROUTE 2 BOX 1 TARBORO, NC 27886	2463885												X			
PECK'S SHOP ROUTE 1, BOX 995 TARBORO, NC 27886	2462389												X			
JIMMY DAIL ROUTE 1, BOX 849 TARBORO, NC 27886	2462388												X			
CALICO HWY 102 TARBORO, NC 27886	2463099												X			

UNMAPPED SITES	VISTA ID	A			B						C			D		
		NPL	CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
ROBERSON SCHOOL P.O. BOX 610 RURAL RD 1527 TARBORO, NC 27886	2461477												X			
RT 3, BOX 175 TARBORO, NC 27886	6581826							X								
VILLAGE MART P.O. BOX 445 TARBORO, NC 27886	2445230												X			

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/2 MILE)

DETAILS

PROPERTY AND THE ADJACENT AREA (within 5/8 mile)

No Records Found

SITES IN THE SURROUNDING AREA (within 5/8 - 3/4 mile)

No Records Found

SITES IN THE SURROUNDING AREA (within 3/4 - 1 mile)

No Records Found

SITES IN THE SURROUNDING AREA (within 1 - 1 1/2 mile)

No Records Found

UNMAPPED SITES

VISTA Address*:	BARNHILL CONTRACTING - APCO NCSR 1518 TARBORO, NC 27886	VISTA ID#:	4066231
STATE SWLF - Solid Waste Landfill / SRC# 355		Agency ID:	33E

Agency Address:	*BARNHILL CONTRACTING - APCO NCSR 1518 TARBORO, NC*
Facility Type:	*INERT*
Facility Status:	*NOT AVAILABLE*
Permit Status:	*NOT AVAILABLE*

VISTA Address*:	BARNHILL CONTRACTING COMPANY SR 1243 TARBORO, NC 27886	VISTA ID#:	3664681
STATE SWLF - Solid Waste Landfill / SRC# 355		Agency ID:	33C

Agency Address:	*BARNHILL CONTRACTING COMPANY SR 1243 TARBORO, NC*
Facility Type:	*INERT*
Facility Status:	*NOT AVAILABLE*
Permit Status:	*NOT AVAILABLE*

VISTA Address*:	W. NORTHERN BOULEVARD TARBORO, NC 27886	VISTA ID#:	5014092
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	11159

Agency Address:	*W. NORTHERN BOULEVARD TARBORO, NC 0*
Facility ID:	*11159*
Leak ID#:	*4*
Leak Date:	*4/1/1993*
Leak Report Date:	*11/9/1993*
Substance:	*GASOLINE DIESEL*
Remediation Status:	*FOLLOW UP*
Priority:	*65E*
Ranking:	*L*
Media Affected:	*SOIL*
Description / Comment:	*VISUALLY CONTAMINATED SOILS FROM 2 USTS EXCAVATE.*

VISTA Address*:	N MAIN ST. TARBORO, NC 27886	VISTA ID#:	3057734
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	05663

Agency Address:	*N MAIN ST TARBORO, NC 0*
Facility ID:	*05663*
Leak ID#:	*3*
Leak Date:	*5/1/1990*
Leak Report Date:	*6/8/1990*
Substance:	*GASOLINE DIESEL*

Remediation Status:	RESPONSE
Priority:	100E
Ranking:	L
Media Affected:	SOIL
Description / Comment:	UPON DISCOVERY OF UST ON PROPERTY RRO HAND AUGERED IMMEDIATELY ADJACENT TO TANK AND FOUND FREE PRODUCT ON WATER TABLE

VISTA Address*:	NC DOT - TARBORO STATE ROAD 1006 TARBORO, NC 27886	VISTA ID#:	8686281
STATE LUST - State Leaking Underground Storage Tank / SRC# 352		EPA/Agency ID:	N/A

Agency Address:	NC DOT - TARBORO STATE ROAD 1006 TARBORO, NC
Leak ID#:	5712
Remediation Event:	TOTAL # CLAIMS: 1
Remediation Status:	INIT REMEDIAL ACTION
Priority:	LOW
Description / Comment:	OLD CITY OF TARBORO DOT MAINT FACILITYSUM OF AMT REQUESTED: $61495.94 SUM OF AMT APPROVED: $59650.35

VISTA Address*:	LONG TRAILER CO INC HWY 44 WEST/TARBORO TARBORO, NC 27886	VISTA ID#:	5165344
STATE SWLF - Solid Waste Landfill / SRC# 354		Agency ID:	33A

Agency Address:	LONG TRAILER CO INC HWY 44 WEST/TARBORO TARBORO, NC
Facility Type:	RUBBLE FILL (DEMO,ETC)
Facility Status:	CLOSED
Permit Status:	NOT AVAILABLE

VISTA Address*:	MAIN CHURCH ST. TARBORO, NC 27886	VISTA ID#:	5298767
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	12309

Agency Address:	MAIN CHURCH ST. TARBORO, NC 0
Facility ID:	12309
Leak ID#:	3
Leak Date:	5/26/1994
Leak Report Date:	6/28/1994
Substance:	GASOLINE DIESEL
Remediation Status:	RESPONSE
Priority:	80E
Ranking:	L
Media Affected:	SOIL
Description / Comment:	SAMPLING CONFIRMED SOIL AND GW CONTAMINATION ON SITE

VISTA Address*:	HANDY MART #12 MAIN HOWARD STREET TARBORO, NC 27886	VISTA ID#:	4432746
STATE LUST - State Leaking Underground Storage Tank / SRC# 352		EPA/Agency ID:	N/A

Agency Address:	HANDY MART #12 MAIN HOWARD STREET TARBORO, NC
Leak ID#:	10821
Remediation Event:	TOTAL # CLAIMS: 15
Remediation Status:	INIT REMEDIAL ACTION
Priority:	LOW
Description / Comment:	SUM OF AMT REQUESTED: $134044.03 , SUM OF AMT APPROVED: $127184.92

STATE LUST - State Leaking Underground Storage Tank / SRC# 357	Agency ID:	10821

Agency Address:	MAIN HOWARD TARBORO, NC 0
Facility ID:	10821
Leak ID#:	3
Leak Date:	2/22/1990
Leak Report Date:	8/29/1993
Substance:	GASOLINE DIESEL
Remediation Status:	RESPONSE
Priority:	105E
Ranking:	/
Media Affected:	SOIL
Description / Comment:	GASOLINE VAPORS AT EXPLOSIVE LEVELS IN UNDERGROUND TELEPHONE VAULT UNDER INTERSECTION OF MAIN ST. AND HOWARD AVE.

VISTA Address*:	CENTRE ST. ANDREW ST. TARBORO, NC 27886	VISTA ID#:	3056214
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	05712

Agency Address:	CENTRE ST. ANDREW ST. TARBORO, NC 0
Facility ID:	05712
Leak ID#:	1
Leak Date:	6/5/1990
Leak Report Date:	7/6/1990
Substance:	GASOLINE DIESEL
Remediation Status:	RESPONSE
Priority:	85D
Ranking:	L
Media Affected:	SOIL
Description / Comment:	RRO INVESTIGATED SITE AND FOUND SOIL CONTAMINATION IN AREA OF EXCAVATED TANKS.

VISTA Address*:	EDGECOMBE COUNTY LANDFILL SR 1601 TARBORO, NC 27886	VISTA ID#:	2461040
STATE SWLF - Solid Waste Landfill / SRC# 354		Agency ID:	3301
Agency Address:	EDGECOMBE COUNTY LANDFILL SR 1601 TARBORO, NC		
Facility Type:	MUNICIPAL FACILITY		
Facility Status:	CLOSED		
Permit Status:	NOT AVAILABLE		
STATE SWLF - Solid Waste Landfill / SRC# 355		Agency ID:	3302-T
Agency Address:	EDGCOMBE COUNTY TRANSFER STATION SR 1601 TARBORO, NC		
Facility Type:	TRANSFER STATION		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		
STATE SWLF - Solid Waste Landfill / SRC# 355		Agency ID:	3301
Agency Address:	EDGCOMBE COUNTY CDLF SR 1601 TARBORO, NC		
Facility Type:	CONSTRUCTION/DEMOLITION		
Facility Status:	NOT AVAILABLE		
Permit Status:	NOT AVAILABLE		

VISTA Address*:	BOYD'S SHELL MAIN HOWARD AVENUE TARBORO, NC 27886	VISTA ID#:	5013750
STATE LUST - State Leaking Underground Storage Tank / SRC# 352		EPA/Agency ID:	N/A
Agency Address:	BOYD'S SHELL MAIN HOWARD AVENUE TARBORO, NC		
Facility ID:	0-002322		
Leak ID#:	5449		
Remediation Event:	TOTAL # CLAIMS: 12		
Remediation Status:	INIT REMEDIAL ACTION		
Priority:	LOW		
Description / Comment:	SUM OF AMT REQUESTED: $133702.24 . SUM OF AMT APPROVED: $96575.52		
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	05449
Agency Address:	MAIN HOWARD TARBORO, NC 0		
Facility ID:	05449		
Leak ID#:	3		
Leak Date:	2/22/1990		
Leak Report Date:	2/26/1990		
Substance:	GASOLINE DIESEL		
Remediation Status:	RESPONSE		
Priority:	140E		
Ranking:	L		
Media Affected:	SOIL		

Description / Comment:	GASOLINE VAPORS AT EXPLOSIVE LEVELS IN UNDERGROUND TELEPHONE VAULT UNDER INSECTION OF MAIN HOWARD AVE

VISTA Address*:	BATTS GROCERY HOWARD AVENUE EXTENSION TARBORO, NC 27886	VISTA ID#:	2455074
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	14662

Agency Address:	HOWARD AVE EXTENSION (SR1208) TARBORO, NC 0
Facility ID:	14662
Leak ID#:	1
Leak Date:	7/1/1994
Leak Report Date:	10/18/1995
Substance:	GASOLINE DIESEL
Remediation Status:	RESPONSE
Priority:	95B
Ranking:	H
Media Affected:	SOIL
Description / Comment:	MINOR SOIL CONTAMINATION CONFIRMED FROM UST LEAKS

VISTA Address*:	US 64 NC33 TARBORO, NC 27886	VISTA ID#:	3058062
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	07567

Agency Address:	US 64 NC33 TARBORO, NC 0
Facility ID:	07567
Leak ID#:	4
Leak Date:	12/18/1991
Leak Report Date:	4/22/1992
Substance:	GASOLINE DIESEL
Remediation Status:	REMEDIAL ACTION
Priority:	125B
Ranking:	B
Media Affected:	SOIL
Description / Comment:	TANK TEST FAILED;

VISTA Address*:	PO BOX 1470/ 1 ROYSTER ST TARBORO, NC 27886	VISTA ID#:	5347422
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	08039

Agency Address:	PO BOX 1470/ 1 ROYSTER ST TARBORO, NC 0
Facility ID:	08039
Leak ID#:	2
Leak Date:	1/27/1991
Leak Report Date:	6/3/1992
Substance:	GASOLINE DIESEL
Remediation Status:	CLOSED OUT
Media Affected:	SOIL

Description / Comment:	CONTAMINATION FOUND AFTER UST REMOVAL

VISTA Address*:	PO BOX 1157 TARBORO, NC 27886	VISTA ID#:	5346709
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	08040

Agency Address:	PO BOX 1157 TARBORO, NC 0
Facility ID:	08040
Leak ID#:	3
Leak Date:	11/8/1990
Leak Report Date:	6/3/1992
Substance:	GASOLINE DIESEL
Remediation Status:	CLOSED OUT
Media Affected:	SOIL
Description / Comment:	SURFACE STAINING DISCOVERED DURING UST REMOVAL

VISTA Address*:	RT 6, BOX 133 TARBORO, NC 27886	VISTA ID#:	3058931
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	05892

Agency Address:	RT 6, BOX 133 TARBORO, NC 0
Facility ID:	05892
Leak ID#:	4
Leak Date:	6/22/1990
Leak Report Date:	9/5/1990
Substance:	GASOLINE DIESEL
Remediation Status:	CLOSED OUT
Priority:	130C
Ranking:	C
Media Affected:	SOIL
Description / Comment:	CONTAM. OF WELL WATER CONFIRMED THROUGH LAB ANALYSIS.

VISTA Address*:	RT 3, BOX 175 TARBORO, NC 27886	VISTA ID#:	6581826
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		Agency ID:	15548

Agency Address:	RT 3, BOX 175 TARBORO, NC 0
Facility ID:	15548
Leak ID#:	4
Leak Date:	8/20/1994
Leak Report Date:	5/29/1996
Substance:	HEATING OIL
Remediation Status:	RESPONSE
Priority:	100A
Ranking:	A
Media Affected:	SOIL
Description / Comment:	KEROSENE WAS FOUND IN BORED WELL

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/2 MILE)

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 1/2 MILE

NPL
SRC#: 19

VISTA conducts a database search to identify all sites within 1.5 mile of your property.
The agency release date for National Priorities List was April, 2000.

The NPL Report is the US EPA's registry of the nation's worst uncontrolled or abandoned hazardous waste sites. NPL sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

SPL
SRC#: 350

VISTA conducts a database search to identify all sites within 1.5 mile of your property.
The agency release date for Annual Report to the North Carolina General Assembly was November, 1998.

This database is provided by the Department of Environmental Health Natural Resources, Superfund Section. The agency may be contacted at: 919-733-2801.

CORRACTS
SRC#: 14

VISTA conducts a database search to identify all sites within 1.5 mile of your property.
The agency release date for RCRIS Corrective Action Sites was December, 1999.

The CORRACTS database contains information concerning RCRA facilities that have conducted, or are currently conducting a corrective action. A Corrective Action Order is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may also be imposed as a requirement of receiving and maintaining a TSDF permit.

RCRIS-TSDC
SRC#: 556

VISTA conducts a database search to identify all sites within 1.5 mile of your property.
The agency release date for RCRIS TSDs Subject to Corrective Action was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDCs are treatment, storage and/or disposal facilities that are subject to corrective action under RCRA.

B) DATABASES SEARCHED TO 1 MILE

CERCLIS
SRC#: 17

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Comprehensive Environmental Response, Compensation and Liability Information Sys was January, 2000.

The CERCLIS database is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the U.S. EPA for the release, or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the National Priorities List (NPL).

NFRAP
SRC#: 18

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for No Further Remedial Action Planned was December, 1999.

The No Further Remedial Action Planned Report (NFRAP), also known as the CERCLIS Archive, contains information pertaining to sites which have been removed from the U.S. EPA's CERCLIS database. NFRAP sites may be sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

SCL
SRC#: 351

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Annual Report to the North Carolina General Assembly was November, 1998.

This database is provided by the Department of Environmental Health Natural Resources, Superfund Section. The agency may be contacted at: 919-733-2801. The State Inventory includes the following categories: NPL List; State Site Priority List (SPL); Sites with Investigations Pending; Responsible Party Voluntary Remedial Action Sites; State Cleanup Sites; No Further Action Sites; and Duplicate Sites.

RCRIS-TSD
SRC#: 12

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for RCRIS Treatment, Storage and Disposal Facilities was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 23

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for USGS Solid Waste Landfills was December, 1991.

This database is provided by the United States Geological Survey. The agency may be contacted at: 703-648-5613.

SWLF
SRC#: 354

VISTA conducts a database search to identify all sites within 1 mile of your property
The agency release date for Inactive and Closed Solid Waste Facilities was September, 1999.

This database is provided by the Dept. of Environmental Health Natural Resources, Solid Hazardous Waste Mgmt. The agency may be contacted at: 919-733-0692.

SWLF
SRC#: 355

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Solid Waste Facilities was September, 1999.

This database is provided by the Dept. of Environmental Health Natural Resources, Solid Hazardous Waste Mgmt. The agency may be contacted at: 919-733-0692.

LUST
SRC#: 352

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for North Carolina State Trust Fund Sites was December, 1999.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187

LUST
SRC#: 357

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Incident Report was March, 2000.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187.

USGS-WELLS
SRC#: 3

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for USGS Water Wells was March, 1998.

The Ground Water Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used or documented during research.

C) DATABASES SEARCHED TO 3/4 MILE

RCRIS-VIOL
SRC#: 11

VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for RCRIS Facilities with Violations was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. The RCRIS Other report contains information concerning facilities that are "unclassified" within the RCRIS database (not classified as a Large Quantity Generator, Transporter, etc.)

UST
SRC#: 353

VISTA conducts a database search to identify all sites within 3/4 mile of your property
The agency release date for Underground Storage Tanks was July, 1999.

This database is provided by the Department of Environmental Health Natural Resources, Div of Environmental Mgt. The agency may be contacted at 919-733-1308 Be advised that some states do not require registration of heating oil tanks, especially those used for residential purposes.

TRIS
SRC#: 2

VISTA conducts a database search to identify all sites within 3/4 mile of your property
The agency release date for Toxic Release Inventory System was January, 1998.

All facilities that manufacture, process, or import toxic chemicals in quantities in excess of 25,000 pounds per year are required to register with the EPA under Section 313 of the Superfund Amendments and Reauthorization Act (SARA Title III) of 1986. Data contained in the TRIS system covers approximately 20,000 sites and 75,000 chemical releases.

D) DATABASES SEARCHED TO 5/8 MILE

ERNS
SRC#: 8

VISTA conducts a database search to identify all sites within .625 mile of your property.
The agency release date for Emergency Response Notification System was August, 1999.

ERNS is a national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party

RCRA-LQG
SRC#: 16

VISTA conducts a database search to identify all sites within .625 mile of your property
The agency release date for RCRIS Large Quantity Generators was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRIS-SQG
SRC#: 15

VISTA conducts a database search to identify all sites within .625 mile of your property.
The agency release date for RCRIS Small Quantity Generators was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small Quantity Generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

SPILLS
SRC#: 356

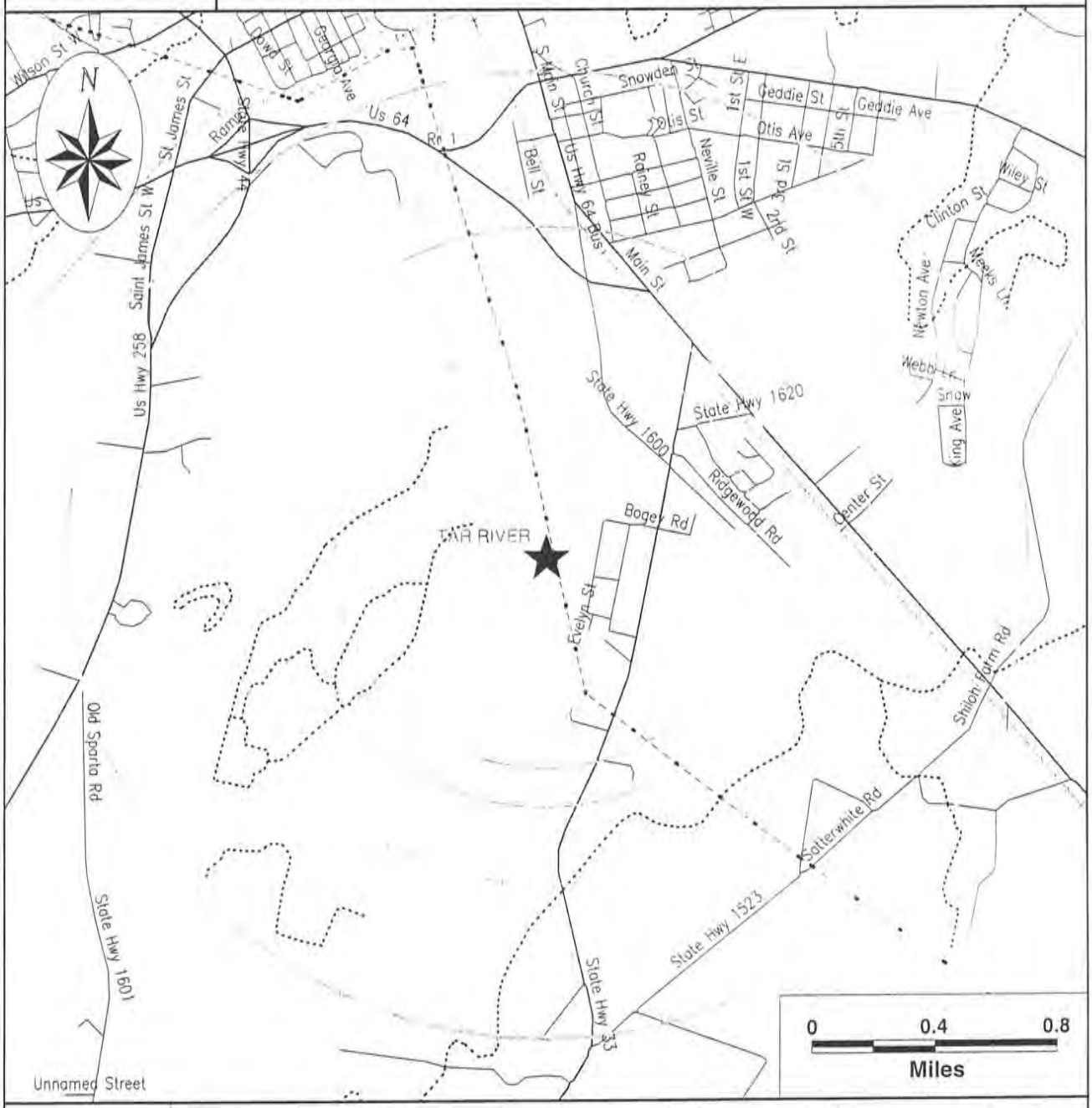
VISTA conducts a database search to identify all sites within .625 mile of your property.
The agency release date for Incident Report was March, 2000.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187.

End of Report

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/2 MILE)

Map of Sites within 1 1/2 Miles



Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 1/2 mi.	1 mi.	3/4 mi.	5/8 mi.
	Single Sites	◆	□	△	○
	Multiple Sites	◆	□	△	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

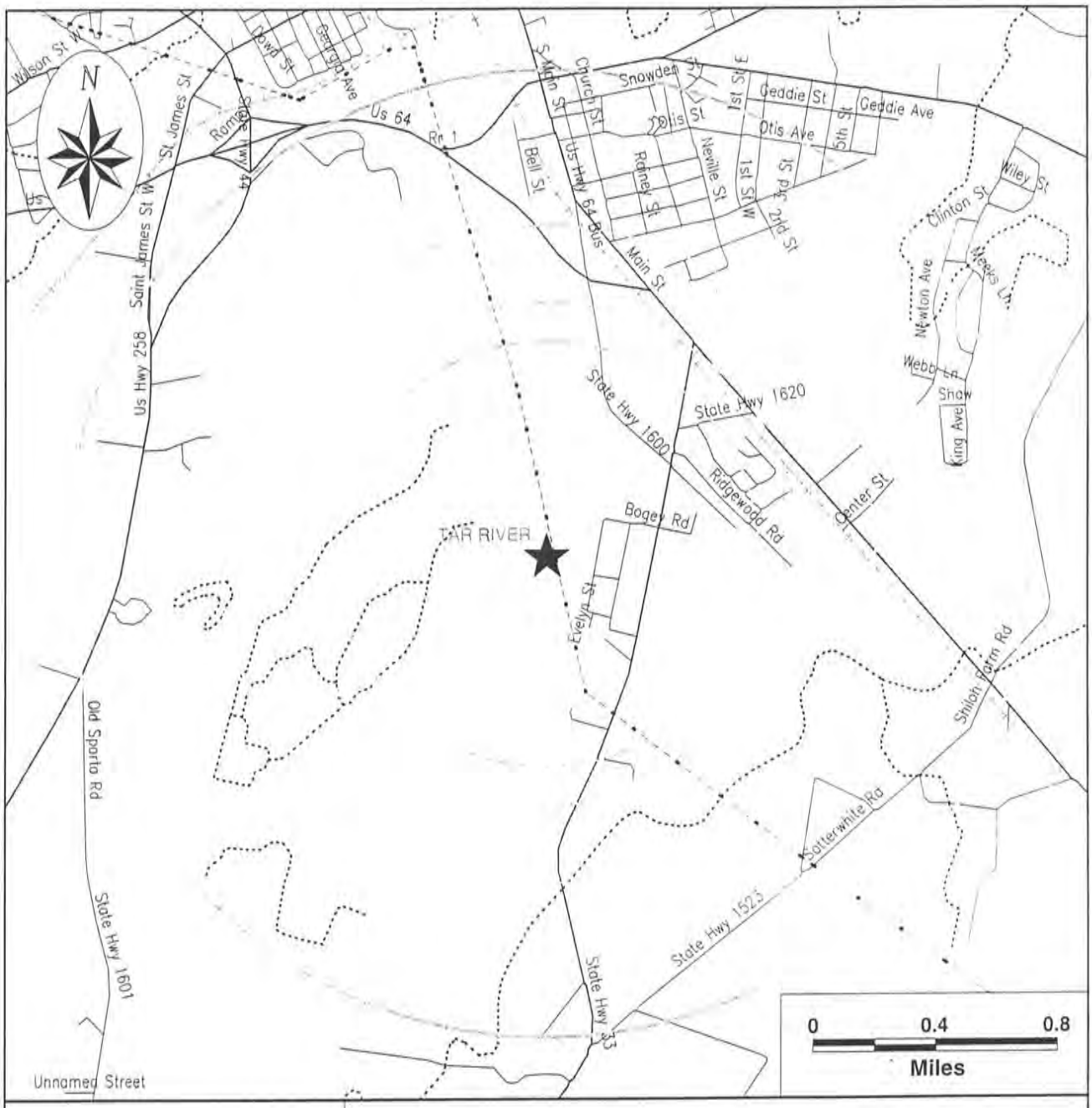
If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**
Report ID: **542702901**

Date of Report: **July 28, 2000**

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/2 MILE)

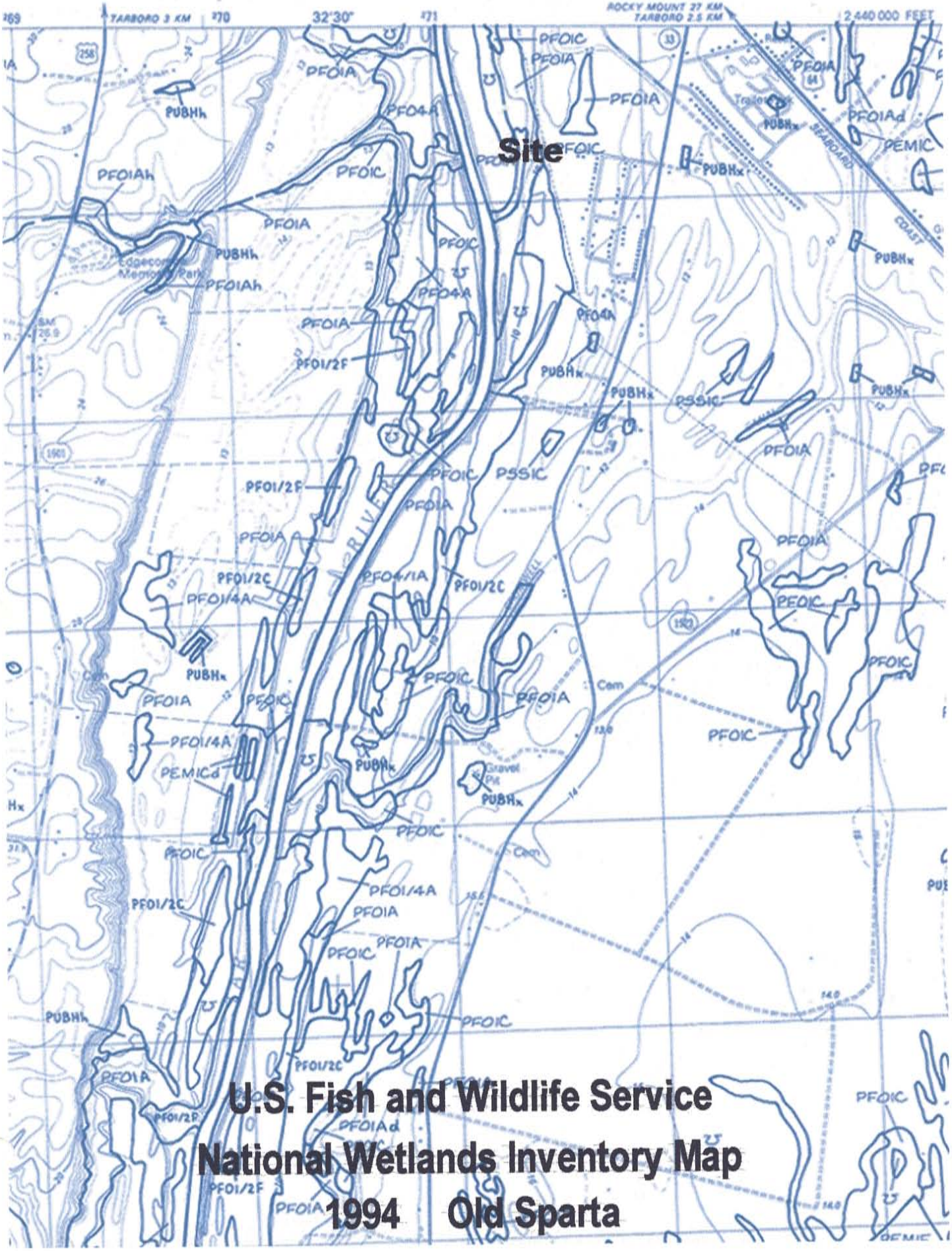
Street Map



Subject Site

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

APPENDIX III



U.S. Fish and Wildlife Service

National Wetlands Inventory Map

1994 Old Sparta

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Form Approved
Budget Bureau No. 68-S-67022

COMMUNITY SOLID WASTE PRACTICES

LAND DISPOSAL SITE INVESTIGATION REPORT

2 (1)

TATE: NC (2–3: 3 2)	2. COUNTY: Edgecombe (4–6: 0 6 5)	3. SITE LOCATION (Political Jurisdiction): Princeville (7–10: 3 7 2 0)	
4. NAME OF SITE: Princeville Refuse Disposal Site (11–13)	5. ADDRESS OF SITE: Located adjacent to the Tar River, Princeville (14: 1)	6. DATE OF SURVEY — DAY: 2 2 (15–16); MONTH: 3 (17–18); YEAR: 6 8 (19–20)	
7. NAME OF PERSON COMPLETING FORM: Fred T. Wood	8. TITLE: Dist. Sanitarian	9. ORGANIZATION AND ADDRESS: N.C. S.B.H. Raleigh	

10. POLITICAL JURISDICTIONS SERVED BY LAND DISPOSAL SITE

NAME OF POLITICAL JURISDICTION		ESTIMATED PERCENTAGE OF JURISDICTION SERVED BY SITE	AVERAGE DISTANCE OF SITE FROM CENTER OF SOURCE AREA (Miles)
Princeville	3 7 2 0 (21–24)	1 0 0 (25–26)	1 (27–28)
	(29–32)	(33–34)	(35–36)
	(37–40)	(41–42)	(43–44)
	(45–48)	(49–50)	(51–52)

FOR ADDITIONAL ENTRIES, CHECK HERE ☐ (53) AND MAKE ENTRIES IN ITEM #45

11. SITE OPERATED BY: ☒ PUBLIC AGENCY ☐ PRIVATE AGENCY (54)

12. SITE OWNED BY: ☐ PUBLIC AGENCY ☒ PRIVATE AGENCY (55)

13. IS OPERATION REGULATED BY A HEALTH AUTHORITY? ☐ YES ☒ NO — IF YES, INDICATE LEVEL OF PRINCIPAL AUTHORITY (Check one only): ☐ COMMUNITY ☐ STATE ☐ COUNTY ☐ OTHER _____ (Specify) (56–57)

14. GENERAL CHARACTER OF SITE (Check one only)
- ☐ QUARRY OR BORROW PIT
- ☐ GULLY-CANYON
- ☒ LEVEL AREAS
- ☐ OTHER _____ (Specify)
- ☐ HILLSIDE
- ☐ MARSH, TIDELAND OR FLOOD PLAIN

Do not use (58)

15. YEAR SITE PLACED IN OPERATION: 19 6 5 (59–60)

16. ANTICIPATED LIFE REMAINING (Years): 2 0 (61–63)

17. TOTAL AREA OF SITE (Acres): 5 (64–67)

18. AREA TO BE USED FOR LAND DISPOSAL (Acres): 4 (68–71)

19. ZONING / LAND USE SURROUNDING FACILITY (Check predominant type only) (72–73)

ZONING:
- ☒ NONE
- ☐ RESIDENTIAL
- ☐ COMMERCIAL
- ☐ INDUSTRIAL
- ☐ AGRICULTURAL
- ☐ OTHER _____ (Specify)

LAND USE:
- ☐ RESIDENTIAL
- ☐ COMMERCIAL
- ☐ INDUSTRIAL
- ☒ AGRICULTURAL
- ☐ OTHER _____ (Specify)

20. IS USE OF COMPLETED SITE PLANNED? ☐ YES ☒ NO — IF YES, CHECK PREDOMINANT USE ONLY: ☐ RECREATIONAL AREA OR PARK ☐ PARKING LOT ☐ LIGHT CONSTRUCTION ☐ HEAVY CONSTRUCTION ☐ AGRICULTURE ☐ OTHER _____ (Specify) ☐ USE NOT DETERMINED (74)

21. WILL PUBLIC AGENCY CONTROL COMPLETED SITE USE? ☐ YES ☒ NO

22. MATERIAL USED FOR COVER (Check one only): ☒ NONE ☐ EARTH ☐ OTHER _____ (Specify) (75–76)

23. FREQUENCY OF COVER (Check one only): ☒ NONE ☐ DAILY (End of each working day) ☐ DAILY (Except face) ☐ OTHER _____ (Specify)

24. IS SPREADING AND COMPACTION OF REFUSE HANDLED IN APPROXIMATELY TWO-FOOT LAYERS OR LESS? ☐ YES ☒ NO (77–78)

25. NUMBER OF DAYS DISPOSAL SITE COULD NOT BE USED BECAUSE OF WEATHER CONNECTED CONDITIONS (Enter average per year): 0 (79–80)

2 (14)

26. GENERAL CHARACTER OF OPERATION (Judgment evaluation - check appropriate categories)

APPEARANCE	IS BLOWING PAPER CONTROLLED?	IS BLOWING PAPER CONSIDERED TO BE A NUISANCE?	ROUTINE BURNING	ARE THERE SURFACE DRAINAGE PROBLEMS?	ARE THERE LEACHING PROBLEMS?
☐ SIGHTLY	☐ YES	☐ YES	☐ NONE	☒ YES	☐ YES
☒ UNSIGHTLY	☒ NO	☒ NO	☒ UNCONTROLLED	☐ NO	☒ NO
			☐ PLANNED AND LIMITED		
(15)	(16)	(17)	(18)	(19)	(20)

LAND DISPOSAL SITE INVESTIGATION REPORT (Page 2)

27. CONTROL PROGRAMS

		YES	NO	Do not use
RODENT CONTROL PROGRAM	NEEDED	☒	☐	21
	PROVIDED	☐	☒	22
FLY CONTROL PROGRAM	NEEDED	☒	☐	23
	PROVIDED	☐	☒	24
BIRD CONTROL PROGRAM	NEEDED	☐	☒	25
	PROVIDED	☐	☒	26
DUST CONTROL PROGRAM	NEEDED	☐	☒	27
	PROVIDED	☐	☒	28
ODOR CONTROL PROGRAM	NEEDED	☐	☒	29
	PROVIDED	☐	☒	30

28. IS LOWEST PART OF FILL IN WATER TABLE? ☐ YES ☒ NO — 31

29. FIRE PROTECTION ☒ NONE ☐ WATER ☐ FIREBREAK ☐ OTHER _____ (Specify) — 32

30. NUMBER OF TIMES FIRE CONTROL EQUIPMENT WAS REQUIRED AT SITE IN THE PAST YEAR: 0 (33 34 35)

31. IS SALVAGING PERMITTED? ☒ YES ☐ NO — 36

32. IS SALVAGING PRACTICED? ☒ YES ☐ NO — 37

33. ESTIMATED NUMBER OF LOADS DEPOSITED DAILY (Average)

FROM PUBLIC COLLECTION VEHICLES (Enter number)	FROM PRIVATE COLLECTION VEHICLES (Enter number)	FROM OTHER VEHICLES (Specify) (Enter number)
2 (38 39 40)	(41 42 43)	(44 45 46)

34. ARE QUANTITATIVE RECORDS KEPT IN ANY FORM? ☐ YES ☒ NO Do not use 47

35. QUANTITIES OF SOLID WASTES RECEIVED ANNUALLY

TONS WEIGHED	48	49	50	51	52	53	54
TONS ESTIMATED	55	56	57	58	59	60	61
CUBIC YARDS	62	63	64	65	66	67	68 69
					6	2	4 0

36. GENERAL CLASSIFICATION OF SOLID WASTES ACCEPTED AT DISPOSAL SITE (Check those accepted)

☒ HOUSEHOLD (70) ☐ INDUSTRIAL (72) ☐ INSTITUTIONAL (74)

☒ COMMERCIAL (71) ☐ AGRICULTURAL (73) ☐ INCINERATOR RESIDUE ONLY (75)

37. CHECK ANY ITEMS LISTED BELOW WHICH ARE EXCLUDED FROM THE DISPOSAL SITE — 14: 3

☐ ALL PUTRESCIBLES (15)	☐ SEWAGE SOLIDS (21)	☐ TIRES (27)
☐ ALL NON-COMBUSTIBLES (16)	☒ JUNKED AUTOMOBILES (22)	☐ HAZARDOUS MATERIALS (28)
☐ ALL COMBUSTIBLES (17)	☐ LARGE APPLIANCES (23)	☐ OTHER (Specify) (29) _____ — 30
☐ GARBAGE (18)	☐ DEMOLITION WASTES (24)	☐ OTHER (Specify) (31) _____ — 32
☐ DEAD ANIMALS (19)	☐ CONSTRUCTION DEBRIS (25)	
☐ WASTE OIL (20)	☐ STREET SWEEPINGS (26)	☐ OTHER (Specify) (33) _____ — 34

38. EQUIPMENT AVAILABLE (Average utilized daily)

	NUMBER
DRAGLINE OR SHOVEL-TYPE EXCAVATORS	0 (35 36)
SCRAPERS (Self-propelled)	0 (37 38)
TRACTORS (Track or Rubber Tire) (Bulldozer or High Lift Loader)	0 (39 40)
TRUCKS	0 (41 42)
OTHER _____ (Specify)	Do not use (43) 0 (44 45)
OTHER _____ (Specify)	Do not use (46) 0 (47 48)

39. TOTAL NUMBER OF EMPLOYEES ON SITE (Average daily): 0 (49 50)

40. HOURS OF DAILY OPERATION (On a 24-hour clock) BEGIN 09 (51 52) END 17 (53 54)

41. NUMBER OF DAYS OPERATED PER WEEK: 3 (55)

42. ANNUAL OPERATING COST (Including supervision and equipment maintenance) $ 100 (56 57 58 59 60 61 62)

43. IS THIS A SANITARY LANDFILL? ☐ YES ☒ NO — 63

44. IF SOURCES OTHER THAN REPORTER DESIGNATED IN ITEM 7 WERE UTILIZED IN COMPLETING THIS FORM, INDICATE BELOW THE SOURCES USED AND ITEM NUMBERS

NAME OF PERSON	TITLE	ORGANIZATION	ITEM NUMBER(S)
Mr Dorthy Adkins	Town Clerk	Princeville	10-13, 15-25, 27-4

ENVIRONMENTAL PROTECTION AGENCY
Office of Solid Waste Management Programs

Mailed 6-28-74

Form Approved
O.M.B. No. 158-R0038

Community Solid Waste Practices

LAND DISPOSAL SITE MODIFICATION REPORT

1. STATE: N.C. (2 3)
2. COUNTY: Edgecombe (4 5 6)
3. SITE LOCATION (POLITICAL JURISDICTION): Princeville (7 8 9 10)
4. NAME OF SITE: Princeville Refuse Disposal Area (11 12 13)
5. ADDRESS OF SITE: Next to Tar River (14)
6. DATE OF REPORT: DAY 18 (15 16) MONTH 06 (17 18) YEAR 74 (19 20)
7. NAME OF PERSON COMPLETING FORM: Billy W. Morris
8. TITLE: Dist. San.
9. ORGANIZATION AND ADDRESS: N.C. Division of Health Services

10. Original Land Disposal Site Problems (check appropriate categories)

- [x] Burning (21)
- [x] Water Pollution (22)
- [x] Lack of Daily Cover (23)

11. Site Has Been (check A or B and appropriate actions completed)

A [x] Eliminated and; (24)
- [x] Rats Eradicated (25)
- [x] Burning Stopped (26)
- [x] Water Pollution Corrected (27)
- [x] Access Prohibited (28)
- [x] Site Covered (29)
- [ ] Other _____ (Specify) (30)

B [ ] Converted to Sanitary Landfill and; (31)
- [ ] Rats Eradicated (32)
- [ ] Burning Stopped (33)
- [ ] Water Pollution Corrected (34)
- [ ] Daily Cover Practiced (35)
- [ ] Other _____ (Specify) (36)

12. Reason for Modification (check one)

- [x] Law (37)
- [ ] Operation Completed (38)
- [ ] Other _____ (Specify) (39)

13. Date Modification Completed: Day 01 (40 41) Month 04 (42 43) Year 74 (44 45)

14. Waste Formerly Hauled to the Eliminated Site Now Being Hauled to:

	County	Site Location	Name of Site	Address	Tons or Percent
A	Edgecombe	S.R. 1601	Edgecombe Co. Landfill	S.R. 1601	100%
B					
C					
D					
E					

EPA-128 (C1R)
(Rev. 11-72)

ENVIRONMENTAL PROTECTION AGENCY
Office of Solid Waste Management Programs

4-30-74

Form Approved
O.M.B. No. 158-R0039

Community Solid Waste Practices
LAND DISPOSAL SITE MODIFICATION REPORT

1. STATE: N.C. (2 3)	2. COUNTY: Edgecombe (4 5 6)	3. SITE LOCATION (POLITICAL JURISDICTION): Pinetops (7 8 9 10)	
4. NAME OF SITE: Pinetops Dump (11 12 13)	5. ADDRESS OF SITE: Co. Rd. 1124 W. of Town (14)	6. DATE OF REPORT: DAY 25 (15 16), MONTH 04 (17 18), YEAR 74 (19 20)	
7. NAME OF PERSON COMPLETING FORM: Billy W. Morris	8. TITLE: Dist. San.	9. ORGANIZATION AND ADDRESS: N.C. Division of Health Services	

10. Original Land Disposal Site Problems (check appropriate categories)

- [x] Burning (21)
- [x] Water Pollution (22)
- [x] Lack of Daily Cover (23)

11. Site Has Been (check A or B and appropriate actions completed)

A [x] Eliminated and; (24)
- [x] Rats Eradicated (25)
- [x] Burning Stopped (26)
- [x] Water Pollution Corrected (27)
- [x] Access Prohibited (28)
- [x] Site Covered (29)
- [ ] Other _____ (Specify) (30)

B [ ] Converted to Sanitary Landfill and; (31)
- [ ] Rats Eradicated (32)
- [ ] Burning Stopped (33)
- [ ] Water Pollution Corrected (34)
- [ ] Daily Cover Practiced (35)
- [ ] Other _____ (Specify) (36)

12. Reason for Modification (check one)

- [x] Law (37)
- [ ] Operation Completed (38)
- [ ] Other _____ (Specify) (39)

13. Date Modification Completed: Day 01 (40 41), Month 04 (42 43), Year 74 (44 45)

14. Waste Formerly Hauled to the Eliminated Site Now Being Hauled to:

	County	Site Location	Name of Site	Address	Tons or Percent
A	Edgecombe	Edgecombe Co.	Edgecombe Co. Landfill	S.R. 1605	100%
B					
C					
D					
E					

EPA-128 (Cin)
(Rev. 11-72)

APPENDIX IV

Hurricane Landfill As ,sment Questionnaire

Contract Number N200016

County:	Edgecombe	**Site's DENR ID Number:**	NONCD0000297
Site Name:	Princeville Dump	**S&ME, Inc. Project Number:**	1040-00-345 F

Question	Owner / Occupant / Public Official / Neighbor			Comments
1. Is the *Site* or any *adjoining Site* currently used for disposal of **trash, construction debris, used vehicles** and/or **other wastes**?	Yes	No	Unk[1]	
2. Is the *Site* or any *adjoining Site* used in the past for disposal of trash, construction debris, used vehicles and/or other wastes?	Yes	No	Unk	
3. Are you aware of any asbestos or asbestos containing materials disposed of at the *Site*?	Yes	No	Unk	
4. Are you aware of any **transformers, capacitors**, or any **hydraulic equipment** that was disposed of on the Site or for which there are any records indicating the presence of **PCBs**?	Yes	No	Unk	
5. Have you any knowledge of exposed waste materials on the Site.	Yes	No	Unk[1]	
6. Are there currently, or to the best of your knowledge have there been previously, any industrial **drums** (typically 55 gal (208 L) or **sacks of chemicals** located on the Site or at the facility?	Yes	No	Unk	
7. Are you aware or is there evidence of stained surface water or seeps at the site or adjacent to the *Site*?	Yes	No	Unk	
8. Are there currently, or to the best of your knowledge have there been previously, any **pits, ponds**, or **lagoons** located on the *Site*?	Yes	No	Unk	
9. Are there any streams on or flowing next to the *Site*?	Yes	No	Unk	
10. Is there currently any stained soil on the *Site* or unusual odors emanating from the *Site*?	Yes	No	Unk	
11. To the best of your knowledge have there been previously any **stained soil** on the *Site* or **unusual odors** emanating from the Site?	Yes	No	Unk	
12. Are there any areas of stressed vegetation or dead trees on the *Site*?	Yes	No	Unk	
13. Are there currently or to the best of your knowledge have there been previously any registered or unregistered storage tanks (above or underground) located on the *Site*?	Yes	No	Unk	

S&ME

Hurricane Landfill A. .sment Questionnaire

Contract Number N200016

County:	Edgecombe	**Site's DENR ID Number:**	NONCD0000297
Site Name:	Princeville Dump	**S&ME, Inc. Project Number:**	1040-00-345 F

Question	Owner / Occupant / Public Official / Neighbor			Comments
14. To the best of your knowledge, have there been any fires on the *Site*?	Yes	No	Unk	
15. Is the *Site* or adjoining properties served by a private well or non-public water system?	Yes	No	Unk	
16. If there is a private well non-public water system currently used on or are used at adjoining properties, have there been any unusual tastes, odors, or color in the water? Has the water been tested by the Health Dept.?	Yes	No	Unk	
17. Are you aware or suspect that groundwater is contaminated at the site or from adjoining property to the site?	Yes	No	Unk	
18. Are you aware of any erosion on the *Site*?	Yes	No	Unk	
19. Does the *owner* or *occupant* of the *Site* have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the *Site* or any facility located on the *Site*?	Yes	No	Unk	

20. Miscellaneous Comments

This questionnaire was completed by:

Name: Dan Tomczak
Title: Environmental Scientist
Address: S&ME, Inc.
3118 Spring Forest Rd Raleigh, NC 27616
Phone No.: 919-872-2660
Date: 9-12-00

Person(s) responding to the questionnaire:

Name: Fred J. Wood
Address: 2614 Brockridge Circle Greenville, NC 27858
Phone No.: 252-756-3717
Relationship to Site: retired - Solid Waste Division
Date/Time: 9-12-00 9:30
(e.g., Owner, Occupant, Neighbor, Fire Marshal, Sheriff, or other Agency Representative)

S&ME

Record of Communication

Project Name HLA - Edgecombe County **Location** Princeville Dump

Communications with: Mr. S Clark Jenkins

of: Clark Farms

Location: Tarboro, NC **Phone:** (252) 823-7029

Communication via: ( ) Telephone Conversation ( ) Discussions During Site Inspection

(X) Office Visitation/Meeting at Clark Farms office **( ) Other** _____

Recorded by: Dan Tomczak **of** S&ME

at: (time) 11 : 50 **on (date)** 8 / 7 / 00

Re: site access permission

Subject: properties of Princeville Dump and site north of Tarboro Landfill

Summary of Communication: Chris Hamblet and I introduced ourselves to Mr. Jenkins. He said that he had forwarded the site access permission letter to his lawyer. He said that the letter was "vague" and "was not interested" in giving us permission to access his properties. He said that any additional communication would be made by his lawyer. Chris and I asked him if we could answer any questions regarding the letter, but he stated that he "had nothing more to say".

~~Conclusions, Actions Taken, Required, or Recommended:~~ Chris and I thanked him for his time and left his office.

Follow up Required: When, With and By Whom: _____

Record of Communication

Project Name HLA - Edgecombe County **Location** Princeville Dump

Communications with: Mr. S. Clark Jenkins

of: Clark Farms

Location: Tarboro, NC **Phone:** (252) 823-7029

Communication via: (X) Telephone Conversation ( ) Discussions During Site Inspection

( ) Office Visitation/Meeting at _____ ( ) Other _____

Recorded by: Dan Temczak **of** S&ME

at: (time) ___:___ **on (date)** 8 / 8 / 00

Re: site access permission

Subject: properties of Princeville Dump and site north of Tarboro Landfill

Summary of Communication: I phoned Mr. Jenkins and asked him if I could have the name and phone number of his lawyer to give to John Walch of NCDWM. He responded by asking "do I not speak English?" and then said that we would be contacted by his lawyer. He said that he now felt that he was being "harrassed" about this issue. I responded by stating that I only wanted his lawyer's name to give to NCDWM. He then stated that "we would not be given permission to access his property" and any further communications would be made through his lawyer. ~~After he stated~~ I thanked him for his time and ended the conversion.

~~**Conclusions, Actions Taken, Required, or Recommended:**~~

Follow up Required: When, With and By Whom: _____

APPENDIX V

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

NCDENR

JAMES B. HUNT JR.
GOVERNOR

WAYNE McDEVITT
SECRETARY

FAX TRANSMITTAL RECORD

DATE: 8/28/00

TO: Ed Wolosczyn

FAX #: 790-9827

FROM: John Walch, Superfund Section

RE: Landfill Access

Number of pages (including cover) 6

Comments:

Confirm receipt of document(s):

_____, Superfund Section (919) 733-2801, ext. _____

SF/slb(C:\WPWIN60\WPDOCS\SF\SF-FAX.FRM)

401 OBERLIN ROAD, SUITE 150, RALEIGH, NC 27605
PHONE 919-733-4996 FAX 919-715-3605
AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER

FAX COVER SHEET

POYNER & SPRUILL LLP
ATTORNEYS AT LAW

The information contained in the attached communication may be protected by attorney/client privilege. If you believe that it has been sent to you in error, do not read it. Please call 919.783.2915 and explain that you have received this communication in error. Then destroy it, or return it to the sender. Thank you.

TO			
Name	Company	Telephone No.	Fax No.
Wallace Finlator	Attorney General's Office	716-6600	716-6939

TOTAL PAGES (Including This Cover Sheet): 5

SUBJECT:

FROM

Name: Timothy F. Sullivan

Telephone: 919.783.2991

Date: August 29, 2000 Time:

COMMENTS: Wallace - Here are executed copies of the 2 site access permission forms re: the W.S. Clark Farms properties we discussed. Please call if you have any questions.

Tim

3600 Glenwood Avenue, Raleigh, NC 27612 ▪ P.O. Box 10096, Raleigh, NC 27605-0096 ▪ 919.783.6400 Tel ▪ 919.783.1075 Fax

SITE ACCESS PERMISSION FORM

Site Name: Princeville Dump

Address: Bogey Farm

County: Edgecombe

Site ID Number: NONCD 0000297

I grant the State of North Carolina's contractor, S&ME, Inc., permission to inspect my property on 8/31/00 & 9/1/00 for the presence of hazards caused by the property's possible past use as a landfill or open dump. I understand that this inspection is for information gathering purposes only and S&ME will not be performing any invasive activities during this inspection, and is limited to a visual inspection.

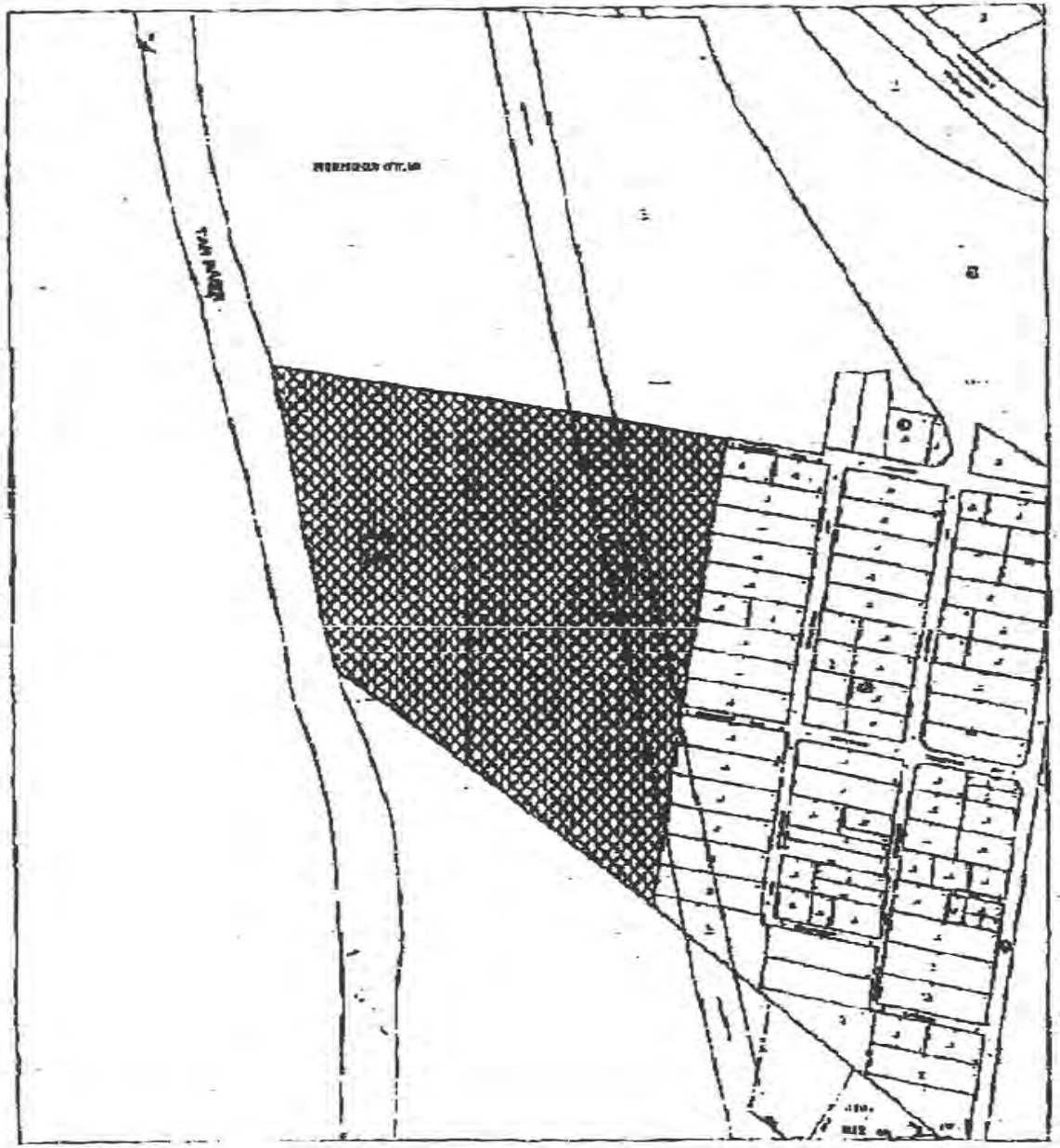
By signing this form, I am not assuming responsibility for any hazards that are found.

W. S. Clark Farms,
a North Carolina Partnership
By:
Property Owner: S. Clark Jenkins, Partner Date: 8/29/00
(signature)

Edgecombe County
Land Records / GIS

1 inch = 564.7719 Feet.
Date : 7/26/2000

PIN=4787-44-4419
MAP=4737
ACCOUNT=6807
OWNER 1=WEBBANK FARMS
OWNER 2=
ADDRESS=P O BOX 310
CITY/STATE/ZIP=ENFIELD NC
ZIP= 27823
BK_PG=1144/681
DOD DATE=[illegible]
SALES PRICE=
ADJ. REF=
PCLAND CODE=1
TAX CODE=[illegible]
STREET NAME=
STREET NUM=
STREET SFX=[illegible]
STREET DIR=
PROPERTY_D=SOGET FARM
TWP=01
S D CODE=
S DISTCT=
BLDG VALUE=[illegible]
LAND VALUE=[illegible]170
DEFERRAL=[illegible]
NET VALUE=[illegible]
ACREAGE=[illegible]



Edgecombe County

Land Records / GIS

1 Inch = 564.7713 Feet.

Date : 7/26/2000

PIN=4737-44-6480
MAP=4737
ACCOUNT=84677
OWNER_1=W S CLARK FARMS
OWNER_2=
ADDRESS=P O BOX 310
CITYST=TARBORO, NC
ZIP= 27886
BK_PG=1145/0480
DOC_DATE=06/02/95
SALES_PRIC=
ADDL_REF=
PCLASSCODE=4
TAX_CODE=F06
STREET_NBR=
STREET_DIR=
STREET=SR 1001
STREET_SUF=
PROPERTY_D=BOGEY FARM
TWP=01
S_D_CODE=
S_D_LOT=
BLDG_VALUE=0
LAND_VALUE=15270
DEFERRMENT=8902
NET_VALUE=6368
ACREAGE=45.8000

Prepared by Edward B. Simmons, Attorney at Law

NORTH CAROLINA

EDGECOMBE COUNTY

WARRANTY DEED

THIS DEED, made this 20th day of April, 1995 from PLUMMER AND ASSOCIATES, a New York General Partnership, (also known as Plummer Associates, see Certificate of Assumed Name dated May 4, 1987 and recorded in Book 2, page 90, Edgecombe Public Registry), hereinafter called the Grantor, to W. S. CLARK FARMS, a North Carolina General Partnership, Post Office Box 250, Tarboro, North Carolina 27886, hereinafter called the Grantee;

WITNESSETH:

That the Grantor, for valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has bargained and sold and by these presents does bargain, sell and convey unto the Grantee, in fee simple, real property located in No. Two and No. One Townships, Edgecombe County, North Carolina and more particularly described on Schedule A which is attached hereto and incorporated herein by reference.

TO HAVE AND TO HOLD the aforesaid real property and all privileges and appurtenances thereto belonging to the Grantee in fee simple forever.

AND the Grantor covenants with the Grantee, its sucessors and assigns, that it is seized of said premises in fee and that it has the right to convey the same in fee simple; that the same are free and clear of all encumbrances; and that it will warrant and defend the title to the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has hereunto caused this instrument to be executed in its partnership name by its duly authorized partners, this the day and year first above written.

PLUMMER AND ASSOCIATES, A
New York General Partnership

By: _____ (SEAL)
Francis P. Jenkins, Jr.
Partner

By: _____ (SEAL)
Christie L. Jenkins
Custodian for Lindsay V.
Jenkins under the New York
Uniform Gift to Minors Act
Partner

By: _____ (SEAL)
Christie L. Jenkins
Custodian for Francis P.
Jenkins III under the New York
Uniform Gift to Minors Act
Partner

By: _____ (SEAL)
Christie L. Jenkins
Custodian for Elizabeth M.
Jenkins under the New York
Uniform Gift to Minors Act
Partner

STATE OF North Carolina
COUNTY OF Edgecombe

I, Patricia F. Holland, a Notary Public in and for said County and State, do hereby certify that personally appeared before me this day FRANCIS P. JENKINS, JR. known to me to be one of the Partners of the general partnership of PLUMMER AND ASSOCIATES, a New York General Partnership, (also known as Plummer Associates, see Certificate of Assumed Name dated May 4, 1987 and recorded in Book 2, page 90, Edgecombe Public Registry), and to me known to be the person described in and who executed the foregoing instrument in the partnership name of PLUMMER AND ASSOCIATES, and he acknowledged that he executed the same as the act and deed of said partnership for the uses and purposes therein expressed.

Witness my hand and seal, this 28th day of April, 1995.
My commission expires June 5, 1996.

Patricia F. Holland
Notary Public

STATE OF North Carolina
COUNTY OF Edgecombe

I, Patricia F. Holland, a Notary Public in and for said County and State, do hereby certify that personally appeared before me this day CHRISTIE L. JENKINS in her capacity as Custodian for Lindsay V. Jenkins, Francis P. Jenkins III and Elizabeth M. Jenkins, under the New York Uniform Gifts to Minors Act, to me known to be the person described in and who executed the foregoing instrument in the partnership name of PLUMMER AND ASSOCIATES, a New York General Partnership, (also known as Plummer Associates, see Certificate of Assumed Name dated May 4, 1987 and recorded in Book 2, page 90, Edgecombe Public Registry), and she acknowledged that she executed the same as the act and deed of said partnership for the uses and purposes therein expressed.

Witness my hand and seal, this 28th day of April, 1995.
My commission expires June 5, 1996.

Patricia F. Holland
Notary Public

NORTH CAROLINA, EDGECOMBE COUNTY
The foregoing certificate (s) of
Patricia F. Holland
A Notary Public, is (are) certified to be correct.
This instrument was presented for registration and recorded in this office in Book 145 Page 480
This 2 day of June 1995
at 3:55 o'clock P M.
Gladys Shelton Pitt
Register of Deeds
By Bettie L. Godfrey Assistant

BOOK 1145 PAGE 482

(over)

SCHEDULE A

PARCEL ONE: Being located near the Town of Princeville in Township No. 2, Edgecombe County, North Carolina, and being all of that property referred to as the Bottoms Farm, and at various times referred to as the Barlow or Sessoms Land, and containing 107 acres, more or less, located on both sides of S.R. 1523 (also known as Shiloh Farm Road) and more particularly described as follows:

Those two parcels of land lying and being situate south of the road leading from Mildred to Tarboro (currently U. S. Highway 64) and being Lot No. 2 containing 55 acres and Lot No. 3 containing 52.75 acres as shown and described on the map entitled "Subdivision of W. A. Hart near Tarboro, Scale 1" = 400' Date 12-12-13, Eng. R.R. Brown," and recorded in Map Book 3, page 341, Edgecombe County Public Registry. It is the identical land conveyed to W. S. Clark and Sons, Incorporated by Stephen L. Beaman, Bankruptcy Trustee, by deed recorded in Book 958, page 402 of said Registry (FIRST TRACT therein); and being all of Tract No. 2 conveyed by deed from W. S. Clark Farms to Plummer and Associates, recorded in Book 1116, page 624, Edgecombe Public Registry.

PARCEL TWO: BEGINNING at a hickory standing on the bank of Tar River, a corner of Lot No. 3, thence running S. 52 deg. E. 43.85 chains to a stake standing on the east side of the old Sparta Road, a corner of Lot No. 3, thence S. 72 deg. 45 min. E. 11.97 chains to a stake on a ditch, a corner of Lot No. 3, thence S. 31 deg. E. 31 chains to a stake on the canal, corner of Lot No. 3, thence up the canal the following courses and distances, N. 62 deg. 15 min. E. 5 chains, N. 71 deg. 45 min. E. 3.60 chains, N. 64 deg. 15 min. E. 3 chains, N. 56 deg. E. 5.18 chains, N. 29 deg. 45 min. E. 3.09 chains N. 1 deg. 30 min. E. 4.15 chains, N. 9 deg. W. 4.27 chains, N. 10 deg. 5 min. E. 3.10 chains and N. 28 deg. E. 1.72 chains to a corner on said canal with Lot No. 1, thence along the line of Lot No. 1, N. 57 deg. W. 47.10 chains to a stake standing on the east side of the Old Sparta Road, a corner of Lot No. 1, thence along the line of Lot No. 1 and along and with said road N. 13 deg. E. 15.58 chains to a stake standing on the east side of said road at the mouth of the lane, a corner of Lot No. 1, thence along and with said lane and the line of Lot No. 1, N. 79 deg. W. 46.40 chains to a stake on the bank of Tar River, a corner of said Lot No. 1, thence down said River to the beginning, containing 210.63 acres, more or less.

BUT THERE IS EXPRESSLY EXCEPTED FROM SAID PROPERTY that portion thereof shown as residential lots and streets on four maps recorded in Map Book 9, at page 4, Map Book 9 at page 8, Map Book 10, at page 1, and Map Book 10, at page 2, of the Edgecombe Public Registry and reference is hereby made to said maps for further description of said excepted property.

The above-described tract of land was conveyed to W. S. Clark & Sons, Inc. by W. C. Bogey and wife, Annie C. Bogey, by Deed duly recorded in Book 354, page 242, Edgecombe Public Registry, to which Deed reference is made for further description. This property is also known as the Bogey Farm, containing approximately 171 acres.

Prepared by Edward B. Simmons, Attorney at Law, Tarboro, North Carolina

NORTH CAROLINA

EDGECOMBE COUNTY

THIS DEED OF RELEASE, made and entered into this the 21st day of April, 1995, by and between First Title Insurance Company, Trustee, hereinafter called Trustee, and FBS AG Credit, Inc., hereinafter called Beneficiary (whether a corporation or one or more persons), parties of the first part; and W. S. Clark Farms, Francis P. Jenkins, Jr. and S. Clark Jenkins, parties of the second part, (whether a corporation or one or more persons);

WITNESSETH:

THAT WHEREAS, said parties of the second part heretofore executed to the said Trustee a certain Deed of Trust dated September 24, 1992, and recorded in Book 1091, Page 08 and re-recorded in Book 1103, page 183, in the office of the Register of Deeds of Edgecombe County, North Carolina, to secure a certain note or notes therein set out in the amount of $ 617,497.00 and payable to the Beneficiary; and whereas, said Beneficiary is the owner and holder of said note or notes; and whereas, said parties of the second part have requested the said Beneficiary to release from the lien of said Deed of Trust so much of the land therein conveyed as is hereinafter described and the said Beneficiary has agreed to do so and has requested said Trustee to join in said release,

NOW, THEREFORE, said parties of the first part, for and in consideration of the sum of Five and no/100 ($5.00) Dollars paid to them by the parties of the second part, the receipt of which is hereby acknowledged, have remised and released, and by these presents do remise, release, and forever quitclaim unto the said parties of the second part, their heirs, successors, and assigns that certain tract or parcel of land situated in Edgecombe County, North Carolina, and more particularly described as follows:

See Schedule A which is attached hereto and incorporated herein by reference.

TO HAVE AND TO HOLD, said lands and premises, together with all privileges and appurtenances thereunto belonging, to them, the said parties of the second part, and their heirs, successors and assigns, free and discharged from the lien of the Deed of Trust recorded in Book 1091, Page 08, in the office of the Register of Deeds of Edgecombe County, North Carolina, and hereinabove referred to.

But it is understood and agreed that this release shall apply only to so much of said lands as are herein expressly described and conveyed and that as to the remainder of said lands described in said Deed of Trust, said Deed of Trust shall be and remain in full force and effect.

IN WITNESS WHEREOF, the said Trustee, of the first part, ~~has hereunto set his hand and seal~~, and the said FBS AG Credit, Inc., of the first part, ~~has~~ have caused this instrument to be signed in its ~~name by its~~ corporate name by its duly authorized officers and its corporate seal hereunto attached, all by authority duly given, the day and year first above written.

(CORPORATE SEAL)

FIRST TITLE INSURANCE COMPANY, Trustee

By: Kimberly M. Pickel
~~Assistant Vice~~ Vice President

ATTEST: Patsy J. Edwards
~~Assistant~~ Secretary

FBS AG CREDIT, INC.

(CORPORATE SEAL)

BY: David A. Davis
Assistant Vice President

ATTEST: Tokie Akrie
Assistant Secretary

STATE OF North Carolina
COUNTY OF Wake

I, the undersigned, a Notary Public in and for said County and State, do hereby certify that Patsy J. Edwards personally appeared before me this day and acknowledged that she is ASST. Secretary of FIRST TITLE INSURANCE COMPANY, a corporation, Trustee, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its Vice President, sealed with its corporate seal, and attested by her ~~himself~~ as its Asst. Secretary.

Witness my hand and seal, this 26th day of May, 1995.

My commission expires 5-18-97.

Connie Mangum Caudle
Notary Public

(SEAL)

~~NORTH CAROLINA~~ STATE OF COLORADO
CITY AND COUNTY OF DENVER

I, Jean E. Miller, a Notary Public, do hereby certify that Tokie Akrie personally came before me this day and acknowledged that ~~he~~ she is Asst. Secretary of FBS AG CREDIT, INC., a corporation, and that by authority duly given, and as the act of the corporation, the foregoing instrument was signed in its name by its Asst. Vice President, sealed with its corporate seal, and attested by ~~himself~~ her as its Asst. Secretary.

Witness my hand and Notarial Seal this the 24th day of May 19 95.

My Commission Expires: 7/28/96

Jean E. Miller
Notary Public 950 Seventeenth Street
Denver, CO 80202

NORTH CAROLINA
Edgecombe County

The foregoing certificate of Connie Mangum Caudle and Jean E. Miller, each a Notary Public, is certified to be correct. This instrument was presented for registration and recorded in this office in Book 1145, Page 484.

This the 2 day of June, 19 95 at 3:55 o'clock P. M.

Gladys Shelton P.T.
Register of Deeds
By: Willie L. Godfrey Asst.

BOOK 1145 PAGE 485

SCHEDULE A

PARCEL ONE:

Being located near the Town of Princeville in Township No. 2, Edgecombe County, North Carolina, and being all of that property referred to as the Bottoms Farm, and at various times referred to as the Barlow or Sessoms Land, and containing 107 acres, more or less, located on both sides of S.R. 1523 (also known as Shiloh Farm Road, and more particularly described as follows:

Those two parcels of land lying and being situate south of the road leading from Mildred to Tarboro (currently U.S. Highway 64) and being Lot No. 2 containing 55 acres and Lot No. 3 containing 52.75 acres as shown and described on the map entitled "Subdivision of W. A. Hart near Tarboro, Scale 1"=400' Date 12-12-13, Eng. R.R. Brown", and recorded in Map Book 3, Page 341, Edgecombe County Public Registry. It is the identical land conveyed to W. S. Clark and Sons, Incorporated by Stephen L. Beaman, Bankruptcy Trustee, by deed recorded in Book 958, Page 402 of said Registry (FIRST TRACT therein); and being all of Tract No. 2 conveyed by deed from W. S. Clark Farms to Plummer and Associates, recorded in Book 1116, Page 624, Edgecombe Public Registry.

PARCEL TWO:

Being located near the Town of Princeville in Township No. 1, Edgecombe County, North Carolina, and being all of that part of the Bogey Farm located on the east side of N.C. Highway 33 containing 97 acres, more or less, and more particularly described as follows:

Beginning at a point in the eastern right of way line of N.C. Highway 33 located S. 72 deg. 45 min. E. from an Iron Stake located in the western right of way line of N.C. Highway 33, a road connecting the Town of Tarboro to the north and the community of Penny Hill to the south, the southern Controll [sic] Corner shown on "Property of W. S. Clark & Sons recorded in Map Book 10, Page 1, Edgecombe Public Registry: from said Iron Stake, across N.C. Highway 33 and through the BEGINNING POINT thus determined along and with the Lancaster line, S. 72 deg. 45 min. E., 790 feet to a point; thence continuing with the Lancaster line, S. 31 deg. 00 min. E., 2046 feet to the bank of a canal, cornering; thence the following courses and distances along and with the north and west bank of the canal: N. 62 deg. 15 min. E., 330 feet; N. 71 deg. 45 min. E., 237.6 feet; N. 64 deg. 15 min. E., 198 feet; N. 56 deg. 00 min. E., 341.8 feet; N. 29 deg. 45 min. E., 203.9 feet; N. 01 deg. 30 min. E., 273.9 feet; N. 9 deg. 00 min. W., 281.8 feet; N. 10 deg. 15 min. E., 204.6 feet; and N. 28 deg. 00 min. E., 113.5 feet to a common corner with Davenport, cornering; thence with the Davenport line (now Barnhill Contracting Company and Edgecombe-Martin County Electric Membership Corporation), N. 57 deg. 00 min. W., 3108.6 feet to a point in the eastern right of way line of N.C. Highway 33, cornering; thence along and with the eastern right of way line of N.C. Highway 33, S. 13 deg. 00 min. W. to a point in the Lancaster line located S. 72 deg. 45 min. E. from an Iron Stake in the western right of way line of N.C. Highway 33, the point and place of BEGINNING; and being all of that property shown in the map entitled "Bogey Farm, Property of W. S. Clark & Sons, located in No. 2 [No. 1] Township, Edgecombe Co., N.C., Map by Robert F. Wilson, R.L.S., Tarboro, N.C., Scale: 1"=400', Feb. 16, 1952" which is located on the east side of N.C. Highway 33, and being a part of that property conveyed to W. S. Clark & Sons, Inc. by W. C. Bogey and his wife, Annie C. Bogey, by deed dated January 12, 1937, recorded in Book 354, Page 242, Edgecombe Public Registry; and being part of Tract No. 1 conveyed by deed from W. S. Clark Farms to Plummer and Associates, recorded in Book 1116, Page 624, Edgecombe Public Registry.

Partial Release
(Trust Deed)

Whereas W.S. CLARK FARMS, a North Carolina Partnership executed a certain trust deed to Robert L. Clinkscales as trustee and Metropolitan Life Insurance Company of New York, New York, beneficiary, dated September 11, 1989, to secure the payment of THREE HUNDRED TEN THOUSAND AND NO/100 DOLLARS, said trust deed being of record in the office of the Register of Deeds of Edgecombe County, North Carolina, In Book 1036 of Trust Deeds, on Page 211-219; and

Whereas, Metropolitan Life Insurance Company has been requested to release a tract of 108 acres, more or less, of the premises described in said trust deed from the lien thereof:

Now, therefore, know all men by these presents, that in consideration of the sum of FIFTY FIVE THOUSAND AND NO/100 DOLLARS, lawful money of the United States of America, paid to the Metropolitan Life Insurance Company, at the execution and delivery hereof, the receipt of which is hereby acknowledged, said Robert L. Clinkscales, trustee, as aforesaid, and Metropolitan Life Insurance Company, beneficiary, as aforesaid, have remised, released, and quit-claimed, and by these presents do remise, release and quit-claim unto the said mortgagor, his heirs and assigns, land and premises situate in the County of Edgecombe and State of North Carolina, to wit:

Tract 1: (Barlow or Sessoms Land)

Those two parcels of land lying and being situate in No. 2 Township, Edgecombe County, North Carolina on the south side of the road leading from Mildred to Tarboro and being Lot No. 2 containing 55 acres and Lot No. 3 containing 52.75 acres as shown and described on the Map entitled, "Subdivision W.A. Hart near Tarboro, Scale 1" 400' Date 12-12-13, Eng. R. R. Brown" and recorded in Map Book 3, page 341, Edgecombe County Public Registry. It is the identical land conveyed to Samuel N. Clark by William A. Hart and wife, Lizzie D. Hart, by deed recorded in Book 172, page 72 of said Registry and devised by the said Samuel N. Clark to his son, Sam N. Clark, Jr. by Will filed in the Office of the Clerk of Superior Court of Edgecombe County. Reference is made to said Map, Deed and Will and to the records therein referred to for further description. Containing in all 108 acres more or less.

To Have and to Hold, the Same With the Appurtenances unto the said mortgagors, his heirs and assigns, forever freed, exonerated and discharged of and from the lien of said trust deed, and of every part thereof, provided always, nevertheless, that nothing herein contained shall in anywise affect, alter or diminish the lien or encumbrance of the aforesaid trust deed on the remaining part of said real estate, described in said trust deed, or the remedies at law for recovering from the said party, his heirs, executors, administrators, and assigns, the balance of said trust deed indebtedness with interest.

In Witness Whereof, said Robert L. Clinkscales, trustee, as aforesaid, has hereunto set his hand and seal; and Metropolitan Life Insurance Company, as aforesaid, has hereunto set its corporate seal attested by its proper officers this 2nd day of June, 1995.

Robert L. Clinkscales [SEAL]
Robert L. Clinkscales, trustee

[Partial Release Page 1]

METROPOLITAN LIFE INSURANCE COMPANY

ATTEST

By Leo T. Rasmussen by
LEO T. RASMUSSEN SENIOR VICE PRESIDENT

Darrell J. Smith
Assistant Secretary
DARRELL J. SMITH

STATE OF NORTH CAROLINA)
)ss.:
COUNTY OF Edgecombe)

I, Billie Pickette, a Notary Public in and for said County and State, do hereby certify that Robert L. Clinkscales, personally appeared before me this date and acknowledged the due execution of the foregoing instrument as trustee.

Witness my hand and official seal this 2nd day of June, 1995

My commission expires: 9-9-96

Billie Pickette
Notary Public

STATE OF KANSAS)
)ss.:
COUNTY OF JOHNSON)

This is to certify that on the 16th day of May, 1995, before me personally came LEO T. RASMUSSEN, with whom I am personally acquainted, who being by me duly sworn, says that he is the SENIOR VICE PRESIDENT and that DARRELL J. SMITH is the Assistant Secretary of the Metropolitan Life Insurance Company, the Corporation described in, and which executed the foregoing instrument; that he knows the common seal of the said Corporation; that the seal affixed to the foregoing instrument is the common seal; and the name of the Corporation was subscribed thereto by the said LEO T. RASMUSSEN and that the said SENIOR VICE PRESIDENT and Assistant Secretary subscribed their names thereto and the common seal was affixed all by order of the Board of Directors of the said Corporation, and that the said instrument is the act and deed of the said Corporation.

Witness my hand and official seal this 16th, day of May, 1995.

NONA KAY JAIMES
Notary Public - State of Kansas
My Appt. Expires 9-13-97

Nona Kay Jaimes
Notary Public

X16 64 96 - W.S. CLARK FARMS - Edgecombe County, North Carolina

NORTH CAROLINA, EDGECOMBE COUNTY
The foregoing certificate(s) of Billie Pickette and Nona Kay Jaimes each a Notary Public (is) (are) certified to be correct. This instrument was presented for registration and recorded in Book 1145 Page 487 this the 2 day of June 19 95 at 3:55 o'clock P M.
Gladys Shelton Pitt, *Register of Deeds* By Bettie L. Godfrey
Asst./~~Deputy~~

(Partial Release Page 2)

Partial Release
(Trust Deed)

Whereas W.S. Clark Farms, A North Carolina Partnership, executed a certain trust deed to Robert L. Clinkscales as trustee and Metropolitan Life Insurance Company of New York, New York, beneficiary, dated December 9, 1994, to secure the payment of ONE MILLION EIGHT HUNDRED FIFTY THOUSAND AND NO/100 DOLLARS, said trust deed being of record in the office of the Register of Deeds of Edgecombe County, North Carolina, in Book 1135 of Trust Deeds, on Page 909 and with the Register of Deeds of Martin County, North Carolina, in Book X-14 of Trust Deeds, on Page 76; and

Whereas, Metropolitan Life Insurance Company has been requested to release a tract of 171 acres, more or less, of the premises described in said trust deed from the lien thereof:

Now, therefore, know all men by these presents, that in consideration of the sum of NINETY THREE THOUSAND AND NO/100 DOLLARS, lawful money of the United States of America, paid to the Metropolitan Life Insurance Company, at the execution and delivery hereof, the receipt of which is hereby acknowledged, said Robert L. Clinkscales, trustee, as aforesaid, and Metropolitan Life Insurance Company, beneficiary, as aforesaid, have remised, released, and quit-claimed, and by these presents do remise, release and quit-claim unto the said mortgagor, his heirs and assigns, land and premises situate in the County of Edgecombe and State of North Carolina, to wit:

For legal description, see attached Exhibit A.

To Have and to Hold, the Same With the Appurtenances unto the said mortgagors, his heirs and assigns, forever freed, exonerated and discharged of and from the lien of said trust deed, and of every part thereof, provided always, nevertheless, that nothing herein contained shall in anywise affect, alter or diminish the lien or encumbrance of the aforesaid trust deed on the remaining part of said real estate, described in said trust deed, or the remedies at law for recovering from the said party, his heirs, executors, administrators, and assigns, the balance of said trust deed indebtedness with interest.

In Witness Whereof, said Robert L. Clinkscales, trustee, as aforesaid, has hereunto set his hand and seal; and Metropolitan Life Insurance Company, as aforesaid, has hereunto set its corporate seal attested by its proper officers this 15th day of March, 1995.

Robert L. Clinkscales [SEAL]
Robert L. Clinkscales, trustee

METROPOLITAN LIFE INSURANCE COMPANY

By Leo T. Rasmussen
LEO T. RASMUSSEN SENIOR VICE PRESIDENT

ATTEST

Darrell J. Smith
Assistant Secretary
DARRELL J. SMITH

(Partial Release Page 1)

STATE OF NORTH CAROLINA)
)ss.:
COUNTY OF Edgecombe)

I, Karen Dew, a Notary Public in and for said County and State, do hereby certify that Robert L. Clinkscales, personally appeared before me this date and acknowledged the due execution of the foregoing instrument as trustee.

Witness my hand and official seal this 15th day of March, 1995

My commission expires: Jan. 30, 2000

Karen Dew
Notary Public

OFFICIAL SEAL
KAREN DEW
NOTARY PUBLIC–NORTH CAROLINA
EDGECOMBE COUNTY, NC
My Commission Expires _____

STATE OF KANSAS)
)ss.:
COUNTY OF JOHNSON)

This is to certify that on the 1st day of March, 1995, before me personally came LEO T. RASMUSSEN, with whom I am personally acquainted, who being by me duly sworn, says that he is the SENIOR VICE PRESIDENT and that DARRELL J. SMITH is the Assistant Secretary of the Metropolitan Life Insurance Company, the Corporation described in, and which executed the foregoing instrument; that he knows the common seal of the said Corporation; that the seal affixed to the foregoing instrument is the common seal; and the name of the Corporation was subscribed thereto by the said LEO T. RASMUSSEN and that the said SENIOR VICE PRESIDENT and Assistant Secretary subscribed their names thereto and the common seal was affixed all by order of the Board of Directors of the said Corporation, and that the said instrument is the act and deed of the said Corporation.

Witness my hand and official seal this 1st, day of March, 1995.

NONA KAY JAIMES
Notary Public - State of Kansas
My Appt. Expires 9-13-97

Nona Kay Jaimes
Notary Public

NORTH CAROLINA, EDGECOMBE COUNTY
The foregoing certificate (s) of Karen Dew and Nona Kay Jaimes, cert
A Notary Public, is (are) certified to be correct.
This instrument was presented for registration and recorded in this office in Book 1145 Page 489
This 2 day of June 1995
at 3:55 o'clock P M.
Gladys Shelton Pitt
Register of Deeds
By Bettie L. Godfrey Assistant

X17 00 42 W.S. Clark Farms

(Partial Release Page 2)

(over)

EXHIBIT A

(BOGEY FARM, APPROXIMATELY 171 ACRES, NUMBER 1 TOWNSHIP, EDGECOMBE COUNTY)

That certain tract or parcel of land lying and being in No. 1 Township, Edgecombe County, North Carolina, being well known as the Bogey Farm, adjoining the lands of W. E and W. L. Page, Mrs. Effie Latham and others, and being Lot No. 2 in the division of the Home Place of the late W. M. Edmondson and more particularly described as follows: Beginning at a hickory standing on the bank of Tar River, a corner of Lot No. 3, thence running south 52 degrees east 43.85 chains to a stake standing on the east side of the old Sparta Road, a corner of Lot No. 3, thence south 72 degrees 45 minutes east 11.97 chains to a stake on a ditch, a corner of Lot No. 3, thence south 31 degrees east 31 chains to a stake on the canal, corner of Lot No. 3 thence up the canal the following courses and distances, north 62 degrees 15 minutes east 5 chains, north 71 degrees 45 minutes east 3.60 chains, north 64 degrees 15 minutes east 3 chains, north 56 degrees east 5.18 chains, north 29 degrees 45 minutes east 3.09 chains, north 1 degree 30 minutes east 4.15 chains, north 9 degrees west 4.27 chains, north 10 degrees 5 minutes east 3.10 chains and north 28 degrees east 1.72 chains to a corner on said canal with Lot No. 1, thence along the line of Lot No. 1, north 57 degrees west 47.10 chains to a stake standing on the east side of the old Sparta Road, a corner of Lot No. 1, thence along the line of Lot No. 1 and along and with said road north 13 degrees east 15.58 chains to a stake standing on the east side of said road at the mouth of the lane, a corner of Lot No. 1 thence along and with said lane and the line of Lot No. 1, north 79 degrees west 46.40 chains to a stake on the bank of Tar River, a corner of said lot no. 1, thence down said River to the beginning, containing 210.63 acres, more or less, and being the identical lot or parcel of land described in deed from T. L. Collin's and others to Annie C. Bogey, duly recorded in Book 275, page 519 of the Edgecombe County Registry, to which reference is hereby made. The above described tract of land was conveyed to W. S. Clark & Sons, Inc. by W. C. Bogey and wife, Annie C. Bogey by deed duly recorded in Book 354, page 242, Edgecombe Public Registry, to which deeds and the deeds and other records therein referred to reference is made for further description. THERE IS EXPRESSLY EXCEPTED FROM THE ABOVE-DESCRIBED TRACT OF LAND that portion thereof shown as residential lots and streets on four maps recorded in Map Book 9, at page 4, Map Book 9, at page 8, Map Book 10, at page 1, and Map Book 10, at page 2 of the Edgecombe Public Registry and reference is hereby made to said maps for further description of said excepted property.

Prepared by Edward B. Simmons, Attorney at Law

NORTH CAROLINA

EDGECOMBE COUNTY

WARRANTY DEED

THIS DEED, made this 20th day of April, 1995 from W. S. CLARK FARMS, a North Carolina General Partnership, hereinafter called the Grantor, to H. M. ETHERIDGE, JR. and wife, SHIRLEY DAVENPORT ETHERIDGE, Route 4, Box 9, Tarboro, North Carolina 27886, hereinafter called the Grantees;

WITNESSETH:

That the Grantor, for valuable consideration paid by the Grantees, the receipt of which is hereby acknowledged, has bargained and sold and by these presents does bargain, sell and convey unto the Grantees, in fee simple, real property located in No. Two and No. One Townships, Edgecombe County, North Carolina and more particularly described on Schedule A which is attached hereto and incorporated herein by reference.

Real Estate Excise Tax 500.00 JUN-2-95 P.B. 10702 STATE OF NORTH CAROLINA

TO HAVE AND TO HOLD the aforesaid real property and all privileges and appurtenances thereto belonging to the Grantees in fee simple forever.

AND the Grantor covenants with the Grantees, their heirs and assigns, that it is seized of said premises in fee and that it has the right to convey the same in fee simple; that the same are free and clear of all encumbrances; and that it will warrant and defend the title to the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has hereunto caused this instrument to be executed in its partnership name by its duly authorized partners, this the day and year first above written.

W. S. CLARK FARMS, A North Carolina General Partnership

By: _____ (SEAL)
Francis P. Jenkins, Jr.
Partner

By: _____ (SEAL)
S. Clark Jenkins
Partner

STATE OF North Carolina
COUNTY OF Edgecombe

I, Patricia F. Holland, a Notary Public in and for said County and State, do hereby certify that personally appeared before me this day FRANCIS P. JENKINS, JR. known to me to be one of the Partners of the general partnership of W. S. CLARK FARMS and to me known to be the person described in and who executed the foregoing instrument in the partnership name of W. S. CLARK FARMS, and he acknowledged that he executed the same as the act and deed of said partnership for the uses and purposes therein expressed.

Witness my hand and seal, this 11th day of ~~April~~ May, 1995.
My commission expires June 5, 1996.

Patricia F. Holland
Notary Public

STATE OF NORTH CAROLINA
COUNTY OF EDGECOMBE

I, Patricia F. Holland, a Notary Public in and for said County and State, do hereby certify that personally appeared before me this day S. CLARK JENKINS known to me to be one of the Partners of the general partnership of W. S. CLARK FARMS and to me known to be the person described in and who executed the foregoing instrument in the partnership name of W. S. CLARK FARMS, and he acknowledged that he executed the same as the act and deed of said partnership for the uses and purposes therein expressed.

Witness my hand and seal, this 11th day of ~~April~~, 1995.

My commission expires June 5, 1996. May

Patricia F. Holland
Notary Public

NORTH CAROLINA, EDGECOMBE COUNTY
The foregoing certificate (s) of
Patricia F. Holland.

A Notary Public, is (are) certified to be correct. This instrument was presented for registration and recorded in this office in Book 1145 Page 492
This 2 day of June 1995
at 3:56 o'clock P M.

Gladys Shelton Pitt
Register of Deeds
By Bettie L. Godley Assistant

(over)

SCHEDULE A

PARCEL ONE:

Being located near the Town of Princeville in Township No. 2, Edgecombe County, North Carolina, and being all of that property referred to as the Bottoms Farm, and at various times referred to as the Barlow or Sessoms Land, and containing 107 acres, more or less, located on both sides of S.R. 1523 (also known as Shiloh Farm Road, and more particularly described as follows:

Those two parcels of land lying and being situate south of the road leading from Mildred to Tarboro (currently U.S. Highway 64) and being Lot No. 2 containing 55 acres and Lot No. 3 containing 52.75 acres as shown and described on the map entitled "Subdivision of W. A. Hart near Tarboro, Scale 1"=400' Date 12-12-13, Eng. R.R. Brown", and recorded in Map Book 3, Page 341, Edgecombe County Public Registry. It is the identical land conveyed to W. S. Clark and Sons, Incorporated by Stephen L. Beaman, Bankruptcy Trustee, by deed recorded in Book 958, Page 402 of said Registry (FIRST TRACT therein); and being all of Tract No. 2 conveyed by deed from W. S. Clark Farms to Plummer and Associates, recorded in Book 1116, Page 624, Edgecombe Public Registry.

PARCEL TWO:

Being located near the Town of Princeville in Township No. 1, Edgecombe County, North Carolina, and being all of that part of the Bogey Farm located on the east side of N.C. Highway 33 containing 97 acres, more or less, and more particularly described as follows:

Beginning at a point in the eastern right of way line of N.C. Highway 33 located S. 72 deg. 45 min. E. from an Iron Stake located in the western right of way line of N.C. Highway 33, a road connecting the Town of Tarboro to the north and the community of Penny Hill to the south, the southern Controll [sic] Corner shown on "Property of W. S. Clark & Sons recorded in Map Book 10, Page 1, Edgecombe Public Registry: from said Iron Stake, across N.C. Highway 33 and through the BEGINNING POINT thus determined along and with the Lancaster line, S. 72 deg. 45 min. E., 790 feet to a point; thence continuing with the Lancaster line, S. 31 deg. 00 min. E., 2046 feet to the bank of a canal, cornering; thence the following courses and distances along and with the north and west bank of the canal: N. 62 deg. 15 min. E., 330 feet; N. 71 deg. 45 min. E., 237.6 feet; N. 64 deg. 15 min. E., 198 feet; N. 56 deg. 00 min. E., 341.8 feet; N. 29 deg. 45 min. E., 203.9 feet; N. 01 deg. 30 min. E., 273.9 feet; N. 9 deg. 00 min. W., 281.8 feet; N. 10 deg. 15 min. E., 204.6 feet; and N. 28 deg. 00 min. E., 113.5 feet to a common corner with Davenport, cornering; thence with the Davenport line (now Barnhill Contracting Company and Edgecombe-Martin County Electric Membership Corporation), N. 57 deg. 00 min. W., 3108.6 feet to a point in the eastern right of way line of N.C. Highway 33, cornering; thence along and with the eastern right of way line of N.C. Highway 33, S. 13 deg. 00 min. W. to a point in the Lancaster line located S. 72 deg. 45 min. E. from an Iron Stake in the western right of way line of N.C. Highway 33, the point and place of BEGINNING; and being all of that property shown in the map entitled "Bogey Farm, Property of W. S. Clark & Sons, located in No. 2 [No. 1] Township, Edgecombe Co., N.C., Map by Robert F. Wilson, R.L.S., Tarboro, N.C., Scale: 1"=400', Feb. 16, 1952" which is located on the east side of N.C. Highway 33, and being a part of that property conveyed to W. S. Clark & Sons, Inc. by W. C. Bogey and his wife, Annie C. Bogey, by deed dated January 12, 1937, recorded in Book 354, Page 242, Edgecombe Public Registry; and being part of Tract No. 1 conveyed by deed from W. S. Clark Farms to Plummer and Associates, recorded in Book 1116, Page 624, Edgecombe Public Registry.

APPENDIX VI

PHOTOGRAPH RECORD

S&ME Project Number: **1040-00-345 F** **Project Name:** **Princeville Dump**

Site Location: **Jenkins Street (SR 1622), Princeville, North Carolina**

Photograph No. 1	Site entrance off of Jenkins Street.

Photograph No. 2:	Areas of Concern 1 and 2: Borrow-pit lake spilling into overflow channel.

PHOTOGRAPH RECORD

S&ME Project Number: **1040-00-345 F** **Project Name:** **Princeville Dump**

Site Location: **Jenkins Street (SR 1622), Princeville, North Carolina**

Photograph No. 3	Area of Concern 3: Exposed drum..

Photograph No. 4:	Area of Concern 3: Exposed drum and debris.

PHOTOGRAPH RECORD

S&ME Project Number: **1040-00-345 F** **Project Name:** **Princeville Dump**

Site Location: **Jenkins Street (SR 1622), Princeville, North Carolina**

Photograph No. 5	Area of Concern 3: Exposed above ground storage tank.

Photograph No. 6:	Site view looking south down the power line easement.

SINCE 1881

FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881

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March 23, 2018

Ms. Ann Shields
North Carolina Department of Environmental Quality
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Reference: **Remedial Investigation – First Phase and Delineation Event**
Princeville Dump
Tarboro, Edgecombe County, NC
Site Identification Number – NONCD0000297
Task Orders 297FP-3, and 297DP-1 & DP-2
F&R Project Nos. 66U-0303-0001 and 66U-0303-0002

Dear Ms. Shields:

Froehling and Robertson, Inc. (F&R) has completed the requested remedial investigation-contaminant delineation phase activities as authorized by the North Carolina Department of Environmental Quality (NCDEQ) Pre-Regulatory Landfill Unit. Please find a Report summarizing the work attached. These activities were conducted in general accordance with State Contract No. N15001i.

Should you have any questions concerning the attached report, please contact our Raleigh office (919) 828-3441.

Sincerely,
FROEHLING & ROBERTSON, INC.

For: John Palmer, P.G.
Senior Geologist

Benjamin A. Whitley, P.E.
GeoEnvironmental Services Manager

Attached: Figures, Tables, & Appendices

1.0 INTRODUCTION

Froehling and Robertson, Inc. (F&R) has prepared this combined *Remedial Investigation – First Phase and Delineation Event* (this Report) for the Princeville Dump (NONCD0000297) located off Jenkins Street in Tarboro, Edgecombe County, North Carolina. This Report summarizes the activities performed by F&R as requested by the North Carolina Department of Environmental Quality (NCDEQ) Pre-Regulatory Landfill Unit (the Unit) within its initial Request for Remedial Investigation (RFRI) - First Phase, Task Order 297FP-3 dated April 24, 2017; and, within its subsequent RFRI - First Delineation Event dated August 8, 2017. The goal of these two phases of work was to conduct first phase and delineation event characterizations of the project area.

In accordance with Task 297FP-3, F&R prepared a Work Plan for evaluation of the project area by means of a sensitive environments review, a water source/receptor survey, vegetative clearing / geophysical survey, research of local geologic / hydrogeologic conditions, and preparation of site and vicinity maps as directed by the Unit in the RFRI. F&R completed those planned field activities between July 27 and August 14, 2017. In addition, and in accordance with Task 297DP-1, F&R prepared a Work Plan for evaluation of the Site by means of an above-ground vapor survey, a surface water/sediment investigation, a waste disposal boundary delineation, a buried waste characterization, a soil cover investigation, a groundwater investigation, and a landfill gas investigation, as directed by the Unit. Portions of those planned field activities were conducted between January 16 and February 7, 2018. F&R has prepared a **USGS Vicinity Map** as **Figure 1**, and an illustration of the project area entitled **Site Map** as **Figure 2**. The completed portions of this investigations were performed in general accordance with the approved Work Plans, and F&R's *Standard Operating Procedures and Quality Assurance Manual* and State Contract N15001i.

1.1 Land Use

According to the Edgecombe County GIS website, the suspected waste disposal area (the Site) is located approximately 1,450 feet west of the intersection of Jenkins Street and NC 33 East, south of the Town of Princeville, North Carolina. The Site is located within a total of two tracts identified by Edgecombe County Parcel #'s 473744648000 (herein identified as the primary property) and 473755657700 (herein identified as the secondary property). The latitude and longitude for the entrance to the Site (Latitude 35.869991 and Longitude 77.529399), and the approximate center of the suspected Site (Latitude 35.869677 and Longitude 77.529847). According to the Edgecombe County GIS website, the two properties containing the Site have not been assigned a specific zoning designation.

Much of the western portion of the primary tract remains undeveloped and wooded; however, the eastern portion of that property has been somewhat developed for the purpose of livestock production in the vicinity of an overhead power line passing through the property. An abandoned mobile home structure and multiple livestock sheds and enclosures were noted to exist upon the primary property, as illustrated in **Figure 2**. Much of the secondary tract is likewise undeveloped; however, a portion of that property contains a pond utilized by the public for the purpose of sport fishing. Both tracts are bounded to the west by the Tar River.

1.2 Discovery

- The areal extent of the Site was not fully identified during the September 13, 2017 geophysical survey conducted by Geo Solutions Ltd. Surface debris and livestock production areas (with associated sheds, storage trailers, and abandoned vehicles) halted survey progress to the south; and, thick vegetation and swamp conditions halted survey progress to the west. Scattered surface waste and partially buried waste were noted in the northeastern and southern portions of the Site. These conditions limited the overall effectiveness of the geophysical survey.
- Buried waste was not identified within the suspected waste disposal area, or the adjacent portions of the project area. As buried waste was not identified during delineation boring operations, Unit personnel cancelled the remainder of the planned assessment activities on January 30, 2018, including the above-ground vapor survey, buried waste characterization, soil cover investigation, groundwater investigation, and landfill gas investigation activities.
- Due to intermittent surface waste observed in livestock areas, offset borings were advanced around and between the active livestock pens in several locations associated with boring B-11 and B-12. In addition, surface waste was observed westward of planned delineation boring B-16. As such, borings were advanced westward of B-16, until reaching the area of standing water situated west of the Site.

2.0 SENSITIVE ENVIRONMENT REVIEW

F&R conducted a sensitive environment review in accordance with the Guidelines for Addressing Pre-Regulatory Landfills and Dumps and the Guidelines for Assessment and Cleanup. A summary has been prepared as **Table 1, Sensitive Environments Research Summary**, and copies of return correspondence from each designated agency that provided a written response are included in **Appendix A, Sensitive Environment Review**.

One positive response was received from Heather Patt, NC DEQ Division of Water Resources (DWR) determined that this area is classified as "Environmentally Sensitive" or "State-Designated Areas for Protection or Maintenance of Aquatic Life." The DWR correspondence stated that the (project) area drains into the Tar River, and that it was recommended that any activity on this property should minimize sediment, metal, and nutrient runoff to surface water. Further, the DWQ noted that the groundwater leaving this site likely contributes to the (river) base flow, and if contaminated could lead to the degradation of the aquatic life in this system

Other positive responses were not received by F&R with respect to the sensitive environment survey conducted under this evaluation.

3.0 GEOLOGIC, HYDROGEOLOGIC, AND HYDROLOGIC CONDITIONS

3.1 Local Geology

According to the Geologic Map of North Carolina (USGS et al, 1985), the disposal area is situated on the boundary between a window of the Cretaceous-aged Cape Fear Formation, and the (greater) Tertiary-aged Yorktown/Duplin Formations. The Cape Fear is characterized as sandstone and sandy mudstone, yellowish to bluish gray, mottled red to yellowish orange, indurated, graded and laterally continuous bedding, blocky clay, faint cross-bedding, feldspar and mica common. The Yorktown is characterized as fossiliferous clay with varying amounts of fine grained sand, bluish gray, shell material commonly concentrated in lenses. The Duplin is characterized as shelly, medium to coarse grained sand, sandy marl, and limestone, bluish gray.

3.2 Local Hydrogeology

According to the Hydrogeologic Framework Database provided by the DWR, the City of Tarboro Well Station ID# J 26H, located approximately 1.6 miles north-northwest of the Site boundary is the closest recorded well. This location would place the Tarboro well across the Tar River groundwater divide. The boring log associated with this well indicates the surficial aquifer intercepts the Upper Cape Fear confining unit at a depth of 10 feet, with the Upper Cape Fear aquifer beginning at a depth of 25 feet bgs and continuing to great depth. As presented in the DWR web page education and technical assistance section, Upper Cape Fear aquifer is a principal aquifer acting as a significant source of ground water for potable water supply and other agriculture or industrial interests in large portions of North Carolina.

According to the NC DEQ, the Site is not located within a designated wellhead protection area.

3.3 Local Hydrology

According to the NCDEQ Classifications website, the Site is located within the greater Neuse River Basin, and the adjacent Tar River is classified as C waters (WS-IV moderately to highly

developed watershed or protected area, and/or NSW nutrient sensitive waters requiring additional nutrient management).

Surface water from the Site would appear to flow into the drainage swale which bisects the Site. The swale drains to a linear swamp area that appears to act as the Site's western boundary, and according to the topography presented in the NC DEQ surface water classifications interactive mapping website, eventually enters the Tar River approximately 700 feet east of the Site.

4.0 WATER SOURCE / RECEPTOR SURVEY

On August 14, 2017, F&R conducted a water supply well survey of residences and businesses located within 1,000 feet of the Site. This reconnaissance consisted of traversing all streets and roadways within the 1,000 foot radius study area, visually identifying existing water supply wells and municipal water meter connections. One water supply well (herein identified as PW-1) was observed within the approximate center of the parcel encompassing the majority of the Site, and is currently supplying water to the livestock production facility operating there. Five water supply wells (identified as PW-2 & PW-3, and PW-5 through PW-7) were observed adjacent to existing residences and are assumed to be supplying water to those homes. One water supply well (identified as PW-4) was observed within an undeveloped parcel.

Two additional water supply wells were observed (identified as IW-1 and IW-2) and mapped. F&R was approached by the owner / former owner of the wells during the survey, and was informed that both of these very shallow wells (five to eight feet in depth) are used solely for the purpose of irrigation / livestock maintenance. Tax parcel number, physical address, well owner and address, approximate distance from and direction to the Site have been compiled using Edgecombe County records, and are presented in **Table 2, Summary of Water Supply Well Survey Data**. The locations of the water supply wells observed during this survey are illustrated in **Figure 3, Water Supply Well and Receptor Map.**

5.0 CLEARING AND GEOPHYSICAL INVESTIGATION

5.1 Site Clearing

Geo Solutions Ltd. utilized hand-clearing methods to access heavily vegetated portions of the Site during performance of the geophysical survey. The majority of the heavy vegetation requiring additional clearing effort was encountered along the western perimeter of the Site, where walking trails were necessary to provide access for the geophysical survey crew.

5.2 Geophysical Survey

Geo Solutions Ltd. completed an electromagnetic (EM) geophysical investigation August 1, 2017, within an area encompassing the suspected waste disposal area. The survey utilized a geophysical profiler operating under Geonics Model EM-31 mode, using a Geophex GEM-2. The survey was conducted using an approximate 50-foot grid pattern that extended a minimum of 25 feet beyond the estimated limits of the suspected Site. For a detailed description of the applied technique and survey methodology refer to Geo Solution's report dated August 1, 2017, attached within **Appendix B, Geophysical Investigation** of this Report.

The areal extent of the Site was not fully identified during the August 2017 EM survey. Thick vegetation, swamp conditions, surface debris, livestock production areas, and sheds / storage trailers / abandoned vehicles impeded progress both to the south and to the west. Although not fully understood at that time, the areal extent of the Site identified through geophysical methods was reported by Geo Solutions as significantly larger than the suspected limits of waste presented in the NCDEQ-approved Work Plan. Geo Solution's Figure 5 depicts their August 2017 interpretation of the disposal area. The coordinates collected by Geo Solutions to represent the current extent of the disposal area are listed in their report. The limits of waste identified through the EM are illustrated in **Figure 4, Geophysical Survey Map** of this Report.

6.0 SURFACE WATER AND SEDIMENT INVESTIGATION

6.1 Surface Water Sampling

On January 16, 2018, F&R collected surface water samples from six planned locations to include the two northern adjacent ponds, and the drainage feature that flows along the western boundary of the Site (designated as SW-1 through SW-6). The locations of the surface water sampling points are illustrated in **Figure 2.** After measuring and documenting water quality parameters, the surface water samples were promptly placed into laboratory-supplied containers via a properly decontaminated Teflon scoop. Surface water sampling details were recorded upon field logs, which are included in **Appendix C, Field Documentation**. The surface water samples were submitted to ConTest Analytical Laboratory, East Long Meadow, MA (ConTest) for analysis of Volatile Organic Compounds (VOCs) by SW-846 Method 8260B (with TICs), Semi-Volatile Organic Compounds (SVOCs) by SW-846 Method 8270D (with TICs), 1,4-dioxane by EPA Method 8260SIM, 14 Metals by EPA Method 6020, Mercury by EPA Method 7470, Ammonia by SM 4500, and Nitrate and Sulfate by EPA Method 300.

A summary of the detected compounds and TICS is presented in the attached **Table 3, Surface Water Analytical Results Summary**. Laboratory analytical reports for sampling activities

conducted under this investigation are included in **Appendix D, Laboratory Report and Certification**.

6.2 Sediment Sampling

Sediment sampling was likewise completed by F&R on January 16, 2018. Sediment samples were removed from the same locations from which the surface water samples were collected (as described in Section 2.1, and likewise illustrated in **Figure 2**). The sediment was collected using a properly decontaminated shovel, placed into a clean plastic bag, and screened with a photoionization detector (PID) to detect VOCs. Sediment sampling details were recorded upon field logs, which are included in **Appendix C**. The sediment samples were promptly placed into laboratory-supplied containers, and submitted to ConTest for laboratory analysis of the same suite of parameters outlined in Section 2.1 above.

A summary of the detected compounds are presented in the attached **Table 4, Sediment Analytical Results Summary**. TICS reported to exist in the sediments samples were presented in **Table 4A, Sediment Tentatively Identified VOC and SVOC Summary**.

7.0 WASTE BOUNDARY DELINEATION

7.1 Delineation Boring Activities

On January 16, 2018, and concurrently with soil and surface water sampling activities, F&R utilized hand-held global positioning system (GPS) technology to flag each planned delineation boring location, as well as all planned groundwater and landfill gas assessment locations. On January 29 and 30, 2018, F&R and Quantex conducted waste delineation boring activities along the perimeter of the suspected Site. Quantex used a track mounted 7720 GeoProbe and continuous flight, solid-stem augers to advance 35 exploratory borings to a depth of 10 to 15 feet below ground surface (bgs).

The initial delineation boring locations were chosen by the Unit. When buried waste was not observed, subsequent borings were advanced in a direction toward the Site. In addition, offset borings were advanced around and between the active livestock pens in several locations associated with boring B-11 and B-12, and beyond boring location B-16 when surface waste was observed between the suspected Site and the wetland area situated west of the Site. No soil sampling or soil screening via field instruments was conducted during boundary delineation activities, and soil cuttings generated from boreholes were used to backfill the boring from which it was removed. Each soil boring location was marked using a pin flag inscribed with the boring designation.

The F&R geologist prepared a boring log for each series of delineation borings; these logs have been placed in **Appendix C**. Surficial soils were generally observed as silty very fine to fine sands with varying amounts of clay, underlain by medium to coarse sands. Groundwater was observed to vary from approximately 6.0 to 9.0 feet below the ground surface across the project area. All delineation boring locations are illustrated in **Figure 5, Delineation Boring Location Map**.

7.2 Surface Waste

As previously introduced, surface waste consisting primarily of household wastes, structural debris, vehicle components and tires, and scrap metal was noted in multiple areas of the Site during the waste boundary delineation operations described in Section 7.1. Both scattered and concentrated areas of surface waste were observed. The majority of the waste did not appear to be recent in origin, and was not observed as discreet piles. Much of the surface waste was mixed into the upper surface of the soils, apparently through livestock production and other activities occurring over the years. On February 7, 2018, F&R returned to the Site to collect the coordinates of each delineation boring location, as well as map the areas of concentrated surface waste described above. See **Figure 6** for the approximate locations of these surface waste observations.

8.0 INVESTIGATION DERIVED WASTE AND BORING ABANDONMENT

Obvious evidence of significant contamination was not identified during field activities; as such, no investigation derived waste was containerized during this assessment. Soil cuttings generated during drilling activities were utilized to backfill the boring from which it was removed, or were spread on the ground surface adjacent to the location of the individual borings. Water generated from decontamination activities was likewise placed within the limits of the Site.

9.0 QUALITY ASSURANCE DISCUSSION

This assessment was generally conducted under those Quality Control Assurance/Quality Control (QA/QC) procedures outlined in Appendix D: Standard Field Protocols of the Inactive Hazardous Sites Program Guidelines for Addressing Pre-Regulatory Landfills and Dumps, November 2015. One duplicate surface water sample (SW-Dup) and one duplicate sediment sample (SD-Dup) were collected at surface water/sediment sampling location SW/SD-4.

The laboratory reported that all samples submitted under this task order were received in acceptable condition, and processed within the appropriate holding times. Those technical issues considered relevant by the laboratory have been included in the F&R Quality Assurance

and Quality Control Laboratory Data Review form placed as a cover sheet upon the laboratory analytical reports included in **Appendix B** of this Report.

10.0 LIMITATIONS

These services have been performed, under authorization of the North Carolina Department of Environmental Quality for specific application on this project. These services have been performed in accordance with generally accepted environmental and hydrogeological practices. No other warranty, expressed or implied is made. As with any subsurface investigation, actual conditions exist only at the precise locations from which samples were taken. Certain inferences are based on the results of sampling and related testing to form a professional opinion of conditions in areas beyond those from which samples were taken. The information within this report is based upon information provided to us by others, our sampling and testing results and our Site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations are based upon conditions readily visible at the Site at the time of our Site visits.

11.0 SOLE USE STATEMENT

The report was prepared solely for the intended use of NCDEQ Inactive Hazardous Sites Branch performed in the scope of work for Task Orders 297FP-3, and 297DP-1 & DP-2. Use of this document for other purposes is at the sole risk of the user.

12.0 CERTIFICATION

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Benjamin A. Whitley, P.E.
GeoEnvironmental Services Manager

Before me personally appeared Benjamin Whitley to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledge to and before me that Benjamin Whitley executed said instrument for the purposes therein expressed.

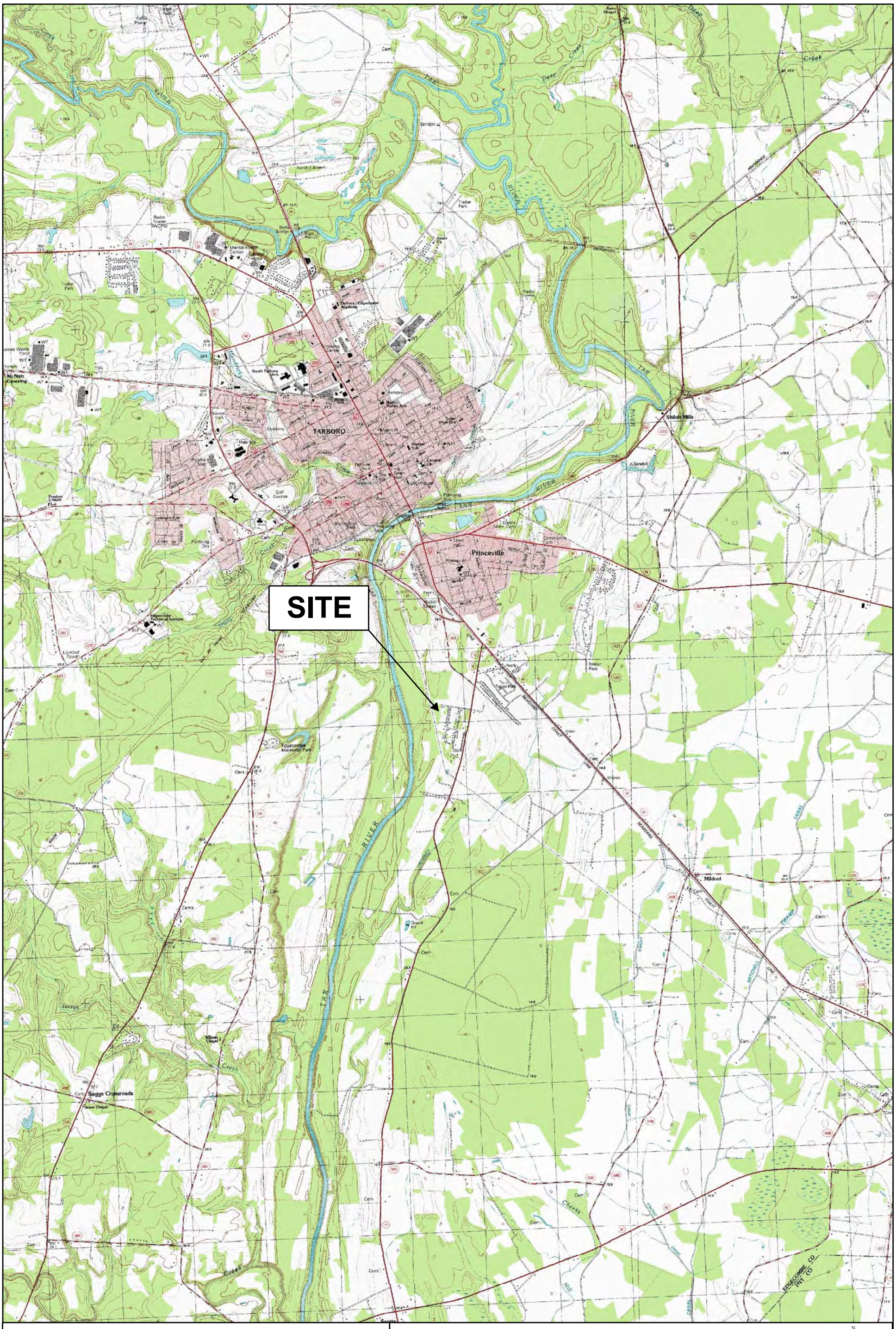
Witness my hand and official seal this 23rd day of March, 2018.

Notary Public	*My Commission Expires On* June 24, 2018
State Of North Carolina	*County Of* Wake

Official Seal

PAULA R GIBSON NOTARY PUBLIC JOHNSTON COUNTY, N.C.

FIGURES



Vicinity Map

0 2,000 4,000 8,000 12,000 16,000 Feet

N

SINCE F&R 1881

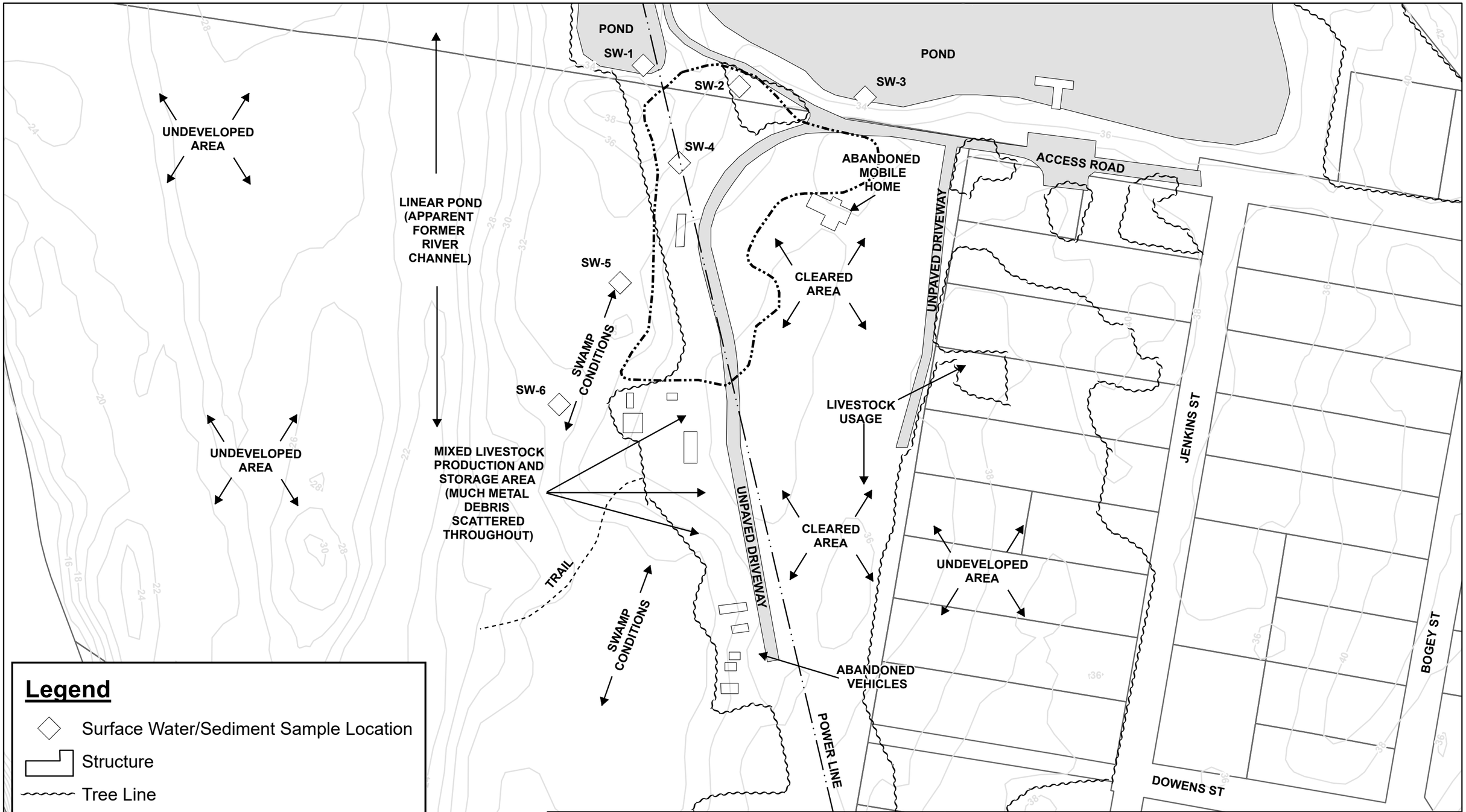
FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881
310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-0303-0001
Data:	USGS
Date:	March 2018

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

Scale: 1:48,000 1 inch = 4,000 feet

FIGURE No.: 1



Legend

- Surface Water/Sediment Sample Location
- Structure
- Tree Line
- Geophysical WDA Boundary
- Topographic Elevation Contours
- Parcel Boundaries

Site Map

0 75 150 300 450 600 Feet

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Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-303-0001
Data:	NC One Map 2016
Date:	March 2018

Scale: 1:1,800 1 inch = 150 feet

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

FIGURE No.: 2

Water Supply Well and Receptor Map

0 150 300 600 900 1,200 Feet

N

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Raleigh, North Carolina 27603-2302 I USA
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Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-0303-0001
Data:	NC One Map 2016
Date:	March 2018

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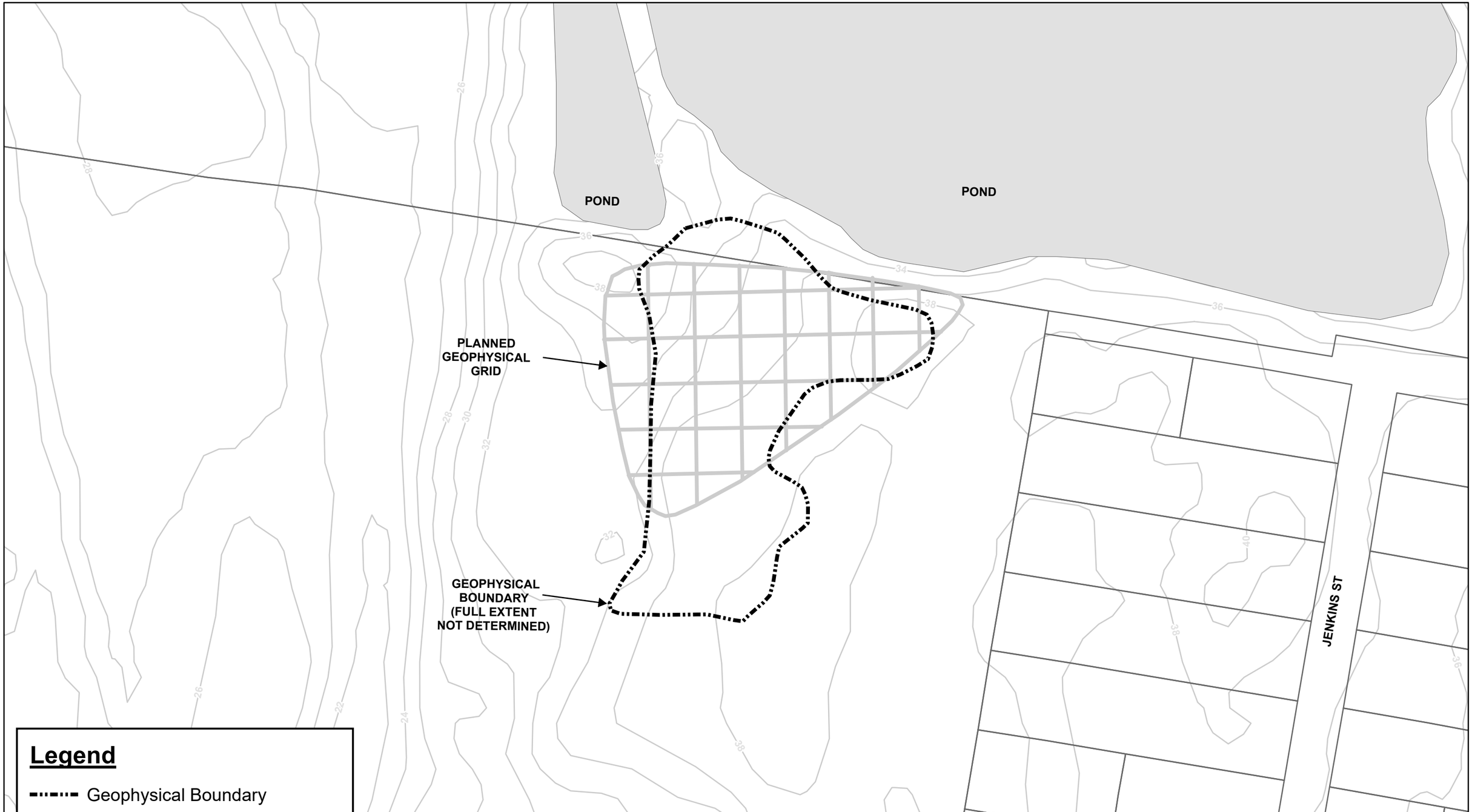
Scale: 1:3,600 1 inch = 300 feet

FIGURE No.: 3



Geophysical Survey Map

0 60 120 240 360 480 Feet

N

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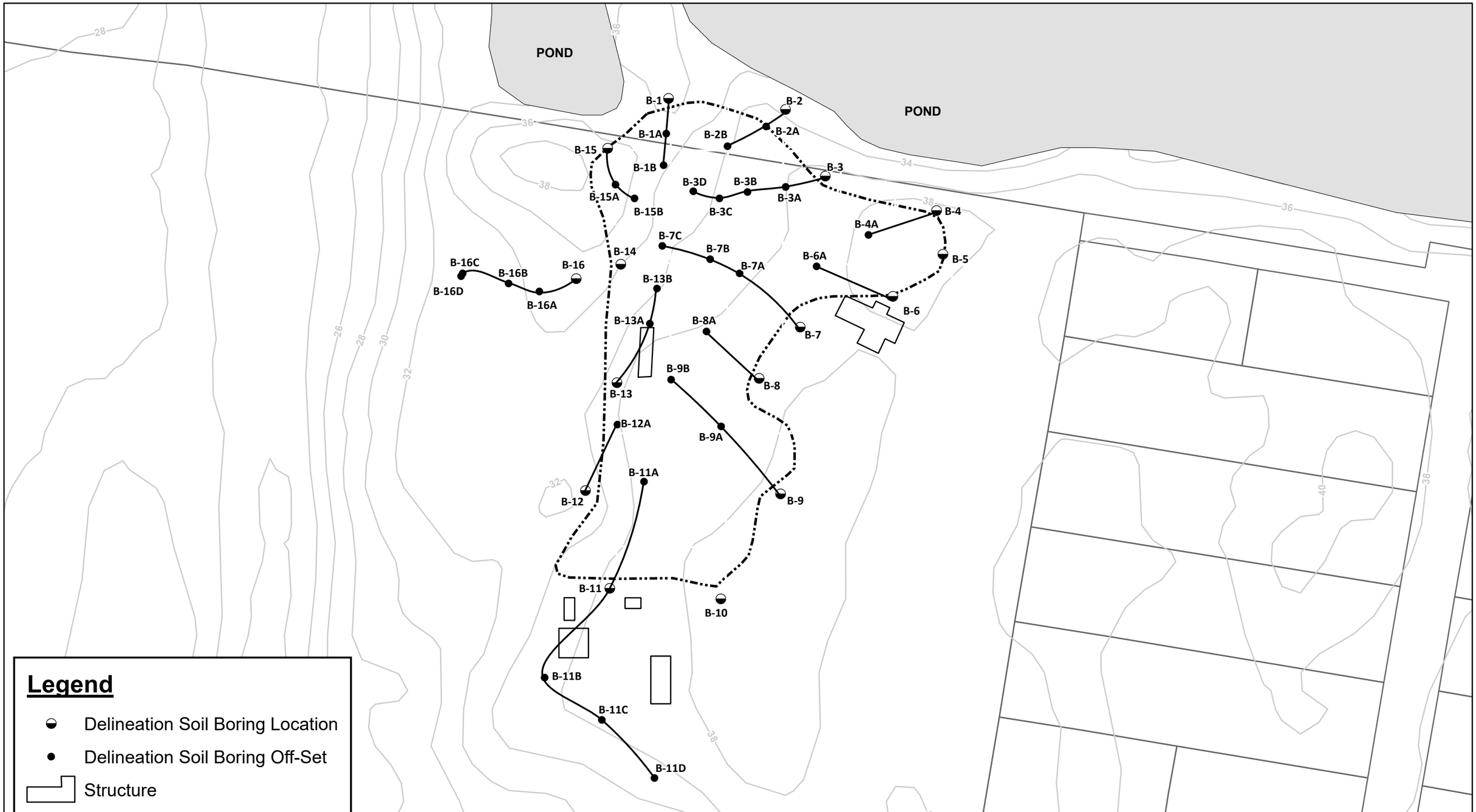
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-0303-0001 Task Order 297 FP-3
Data:	NC One Map 2016
Date:	September 2017
Scale:	1:1,440 1 inch = 120 feet

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

FIGURE No.: 4



Legend

- Delineation Soil Boring Location
- Delineation Soil Boring Off-Set
- Structure
- Geophysical Boundary
- Topographic Elevation Contours
- Parcel Boundaries

Delineation Boring Location Map

0 50 100 200 300 400 Feet

N

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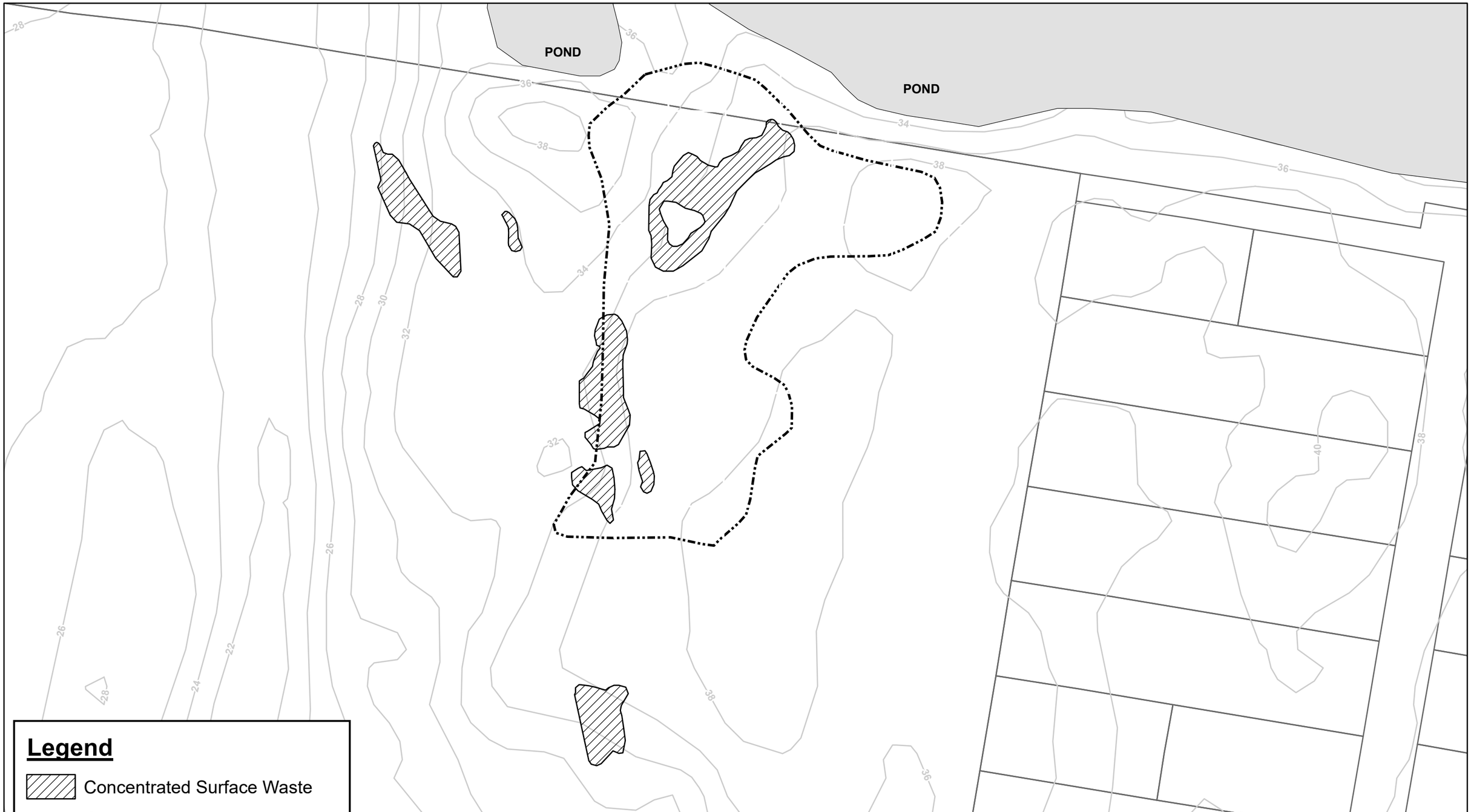
FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881
310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County,NC
F&R Project No.:	66U-0303-0002
Data:	NCOne Map
Date:	March 2018

Scale: 1:1,200 1 inch = 100 feet

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

FIGURE No.: 5



Concentrated Surface Waste Map

0 50 100 200 300 400 Feet

N

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Engineering Stability Since 1881
310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County,NC
F&R Project No.:	66U-0303-0002
Data:	NCOne Map
Date:	March 2018

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

Scale: 1:1,200 1 inch = 100 feet

FIGURE No.: 6

TABLES

TABLE 1
Sensitive Environment Survey Summary
Princeville Dump
Tarboro, Edgecombe County, NC
ID N0NC0000386
Task Orders 9389FP-3

E3B2:D3B2:D4B2:E4B2:B2:E4	Name & Contact Info	Sensitive Environments	Sensitive Environments Identified (YES / NO)
NC Division of Conservation, Planning, and Community Affairs – Natural Heritage Program	Email: natural.heritage@ncdcr.gov Website: http://portal.ncdenr.org/web/nhp/data-services (website inoperative)	State Parks Areas Important to Maintenance of Unique Natural Communities Sensitive Areas Identified Under the National Estuary Program Designated State Natural Areas State Seashore, Lakeshore and River Recreational Areas Rare species(state and federal Threatened and Endangered) Sensitive Aquatic Habitat State Wild & Scenic Rivers	**NO (Rodney Butler, NCNHP: Noted that while the property resides within the Tarboro River Floodplain, no documented "element" occurances are known to exist within the project area. However, multiple potential "element" occurances have been documented to exist within 0ne-mile of the project area.)**
National Park Service - Public Affairs Office	Anita Barnett Anita_Barnett@nps.gov (404) 507-5706 http://www.nps.gov/rivers	National Seashore, Lakeshore and River Recreational Areas National Parks or Monuments Federal Designated Wild & Scenic Rivers	No Response Received
US Forest Service	Heather Luczak Hluczak@fs.fed.us (828) 257- 4817	National Parks or Monuments	NO

TABLE 1
Sensitive Environment Survey Summary
Princeville Dump
Tarboro, Edgecombe County, NC
ID N0NC0000386
Task Orders 9389FP-3

E3B2:D3B2:D4B2:E4B2:B2:E4	Name & Contact Info	Sensitive Environments	Sensitive Environments Identified (YES / NO)
NC Division of Water Resources	Ian McMillan Ian.Mcmillan@ncdenr.gov (919) 807-6364 or Melanie Williams Melanie.Williams@ncdenr.gov (919) 707-9000 Ask for Clean Water Act 305b report	State-Designated Areas for Protection or Maintenance of Aquatic Life	Yes. Heather Patt, DWR: noted that the area drains into the Tar River, and that it was recommended that any activity on this property should minimize sediment, metal, and nutrient runoff to surface water. Further, the DWQ noted that the groundwater leaving this site likely contributes to base flow, and if contaminated could lead to the degradation of the aquatic life in this system.
NC Division of Forest Resources	Chris CarlsonChris Carlson Chris.Carlson@ncdenr.gov (919) 857-4819	State Preserves and Forests	No Response Received
US Fish & Wildlife Service	Pete Benjamin Pete_Benjamin@fws.gov (919) 856-4520 x 11	Endangered Species Terrestrial Areas Utilized for breeding by Large or Dense Aggregations of Animals National or State Wildlife Refuges	No Response Received
NC Department of Natural and Cultural Resources	Renee Gledhill-Earley (919) 807 – 6579 email: environmental.review@ncdcr.gov	National and State Historical Sites	NO
NC Division of Coastal Management	Ted Tyndall Ted.Tyndall@ncdenr.gov (252) 808-2808 http://dcm2.enr.state.nc.us	Areas Identified Under Coastal Protection Legislation Coastal Barriers or Units of a Coastal Barrier Resources System. Marine Sanctuaries	No Response Received

TABLE 1
Sensitive Environment Survey Summary
Princeville Dump
Tarboro, Edgecombe County, NC
ID N0NC0000386
Task Orders 9389FP-3

E3B2:D3B2:D4B2:E4B2:B2:E4	Name & Contact Info	Sensitive Environments	Sensitive Environments Identified (YES / NO)
NC Wildlife Resources Commission	David Cox (919) 707-0366 David.Cox@ncwildlife.org	National or State Wildlifeor State Wildlife Refuges State lands designated for wildlife or game management Migratory Pathways and Feeding Areas Critical for Maintenance of Anadromous Fish Species within River Reaches or Areas in Lakes or Coastal Tidal Waters in which such Fish Spend Extended Periods of Time Spawning Areas Critical for the Maintenance of Fish/Shellfish Species within River, Lake or Coastal Tidal Waters. Areas Likely to serve as a natural area	No Response Received
US Army Corps of Engineers	Dorothy Harrington Dorothy. Harrington@usace.army.mil (919) 554-4884, x 28	Wetlands	No Response Received

TABLE 2
Summary of Water Supply Well Survey Data
Princeville Dump
Princeville, Edgecomb County, NC
ID# NONCD0000297

WSW Number	Tax Parcel#	Physical Address	Well Owner	Owner Address	Approximate Distance from Disposal Area (in feet)	Cardinal Direction from Disposal Area
PW-1	473744648000	Off Jenkins Street	Moore, Johnny Ray et al	PO Box 38 Conetoe, NC 27819	Within WDA	NA
PW-2	473764660000	Beamon, Tom	Bryant, Wanda Sue Webb et al	2237 Maple Swamp Rd, Whitakers, NC 27891	960	East
PW-3	473764548900	317 Bogey St, Lot 37 Bogey Farms S/D	Denny, Martha Louise L Life est	478 Filmore Rd, Tarboro, NC 27886	990	East
PW-4	4737630080400	147 Jenkins Street, Lot 46 Bogey Farms S/D	Edgecombe County	PO Box 10 Tarboro, NC 27819	840	Southeast
PW-5	473763386400	142 Jenkins Street, Lots 30 & 31 Bogey Farms S/D	Hucks, Dennis T	142 Jenkins St. Tarboro, NC 27886	910	Southeast
PW-6	473763463300	114 Jenkins Street, Lot 17 Bogey Farms S/D	Higgins, Carolyn D Jenkins	2051 Love Shop Rd Halifax, VA 24558	1015	Southeast
PW-7	473753956000	Jenkins Street, Lot 43 Bogey Farms S/D	Beamon, Tom	333 Mutual Blvd Tarboro, NC 27886	1000	Southeast
IW-1	473764536900	301 Bogey Street, Lot 36 Bogey Farms S/D	Edgecombe County	PO Box 10 Tarboro, NC 27819	810	East-Southeast
IW-2	473764523900	Bogey Street	Abrams, John N et al	2221 Oak Dr, Tarboro, NC 27886	960	East-Southeast

Parcel and Owner Information per Edgecombe County GIS website.
PW-x - Potable Well Location
IW-x - Irrigation Well Location (per Property Occupant)

TABLE 3
Surface Water Analytical Results Summary (Detections Only)
Princeville Dump
Tarboro, Edgecombe County, NC
ID NONCD0000297
Task Order 297DP-2

Sample ID	SW-1		SW-2		SW-3		SW-4		SW-DUP		SW-5		SW-6		Trip Blank 1	Trip Blank 2	Trip Blank 3
Collection Date	1/16/2018		1/16/2018		1/16/2018		1/16/2018		(Duplicate of SW-4)		1/16/2018		1/16/2018		1/16/2018	NA	NA
Parameter	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Result	Result
VOCs by EPA Method 8260 B																	
Ethylbenzene	ND		ND		ND		ND		ND		ND		ND		0.17 J	0.15 J	0.17 J
p-Isopropyltoluene (p-Cymene)	ND		ND		ND		ND		2.1		ND		ND		ND	ND	ND
Toluene	ND		0.40	J	ND		ND		ND		ND		ND		ND	ND	ND
m+p Xylene	ND		ND		ND		ND		ND		ND		ND		0.48 J	0.47 J	0.46 J
o-Xylene	ND		ND		ND		ND		ND		ND		ND		0.32 J	0.32 J	0.29 J
1,4 Dioxane by EPA Method 8260 C SIM																	
1,4 Dioxane	ND		ND		ND		ND		ND		ND		ND		NT	NT	NT
SVOCs by EPA Method 8270 D																	
SVOCs	ND		ND		ND		ND		ND		ND		ND		NT	NT	NT
Metals by EPA Method 6020 A-B and 7470A																	
Antimony	0.51	R-04, J	0.47	J	0.33	J	0.22	J	ND		ND		ND				
Arsenic	ND		2.1		0.94		0.81		1.2		ND		ND				
Chromium	ND		2		ND		ND		ND		ND		ND				
Copper	ND		3.9	J	0.99	J	ND		0.77	J	ND		ND				
Iron	85	J	6600		340		1400		6300		580		570		NT	NT	NT
Lead	ND		3.1		0.37	J	ND		0.63	J	ND		ND				
Manganese	6.1		110		18		130		220		24		43				
Nickel	ND		1.3	J	ND		ND		ND		ND		ND				
Zinc	ND		31		ND		10	J	13	J	ND		ND				
Ammonia as N by SM19-22 4500 NH3 C																	
Ammonia as N	ND		ND		ND		ND		ND		ND		ND		NT	NT	NT
Nitrate and Sulfate by EPA Method 300 (mg/L)																	
Nitrate as N	ND		ND		0.13		0.072		0.079		0.066		1.2		NT	NT	NT
Sulfate	10		15		14		6.1		11		8.4		9.6				
SVOC TICS Reported in Surface Water Samples - (No VOC TICS were Reported)																	
.beta.-Pinene	62		ND		ND		ND		ND		ND		ND				
1S-.alpha.-Pinene	610		ND		ND		ND		ND		ND		ND		ND	ND	ND
Cyclohexene, 1-methyl-4-(1-...	40		ND		ND		ND		ND		ND		ND				

Results reported in ug/L, Except Ammonia, Nitrate, Sulfate reported in mg/L

ND	Not Detected
NT	Not Tested
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
VOCs	Volatile Organic Compounds
SVOCs	Semi-Volatile Organic Compounds
TICs	Tentatively Identified Compounds

TABLE 4
Sediment Analytical Results Summary (Detections Only)
Princeville Dump
Tarboro, Edgecombe County, NC
ID NONCD0000297
Task Order 297DP-2

Sample ID	SD-1		SD-2		SD-3		SD-5		Trip Blank 1	Trip Blank 2
Collection Date	1/16/2018		1/16/2018		1/16/2018		1/16/2018		1/16/2018	1/16/2018
Parameter	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Result
VOCs by EPA Method 8260 B										
Acetone	0.023	J	0.054	J	0.037	J	0.20	J	ND	ND
p-Isopropyltoluene (p-Cymene)	ND		ND		ND		0.0054		ND	ND
Toluene	ND		ND		ND		0.0069		ND	ND
1,4 Dioxane by EPA Method 8260 C SIM										
1,4 Dioxane	ND		ND		ND		ND		NT	NT
SVOCs by EPA Method 8270 D										
Benzoic Acid	ND		ND		ND		1.3	J	NT	NT
Metals by EPA Method 6020 A-B and 7470A										
Antimony	ND		0.37	J	ND		ND			
Arsenic	0.42		0.98		0.34		3.2			
Beryllium	0.072	J	0.81		0.056	J	0.59	J		
Cadmium	ND		0.11	J	ND		0.23	J		
Chromium	4.4	J	9.7		1.8	J	6.1	J		
Copper	1.7	J	6.7	J	0.57	J	5.6	J		
Iron	2200	MS-19	4100		960		6800			
Lead	2.8		28		1.7	J	21		NT	NT
Manganese	7.2		56		7.5		19			
Mercury	ND		0.027	J	ND		0.021	J		
Nickel	1.2	J	3.6	J	0.45	J	2.9	J		
Selenium	ND		0.40	J	ND		0.52	J		
Silver	0.0093	J	0.033	J	ND		0.017	J		
Thallium	0.032	J	0.12		0.0084	J	0.16			
Zinc	4.0	J	31		2.8	J	27			
Ammonia as N by SM19-22 4500 NH3 C										
Ammonia as N	ND		ND		ND		ND		NT	NT
Nitrate and Sulfate by EPA Method 300										
Nitrate as N	1.7	J	4.2		1.9	J	3.0	J	NT	NT
Sulfate	240	J	ND		ND		ND			

Results reported in mg/Kg

ND	Not Detected
NT	Not Tested
VOCs	Volatile Organic Compounds
SVOCs	Semi-Volatile Organic Compounds
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningfu
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration.

TABLE 4A
Sediment Tentatively Identified VOC and SVOC Summary
Princeville Dump
Tarboro, Edgecombe County, NC
ID NONCD0000297
Task Order 297DP-2

Sample ID	SD-1	SD-2	SD-3	SD-5	Trip Blank 1	Trip Blank 2
Collection Date	1/16/2018	1/16/2018	1/16/2018	1/16/2018	1/16/2018	1/16/2018
Parameter	Result	Result	Result	Result	Result	Result
No VOC TICS Were Reported						
VOCs						
SVOCs by EPA Method 8270 D						
(Z)-14-Tricosenyl formate						
.beta.-Sitosterol				4		
1,15-Hexadecadiene			0.32			
16-Octadecenal				4.5		
2-Butanone, 4-hydroxy-						
2-Furancarboxaldehyde, 5-(h...						
2-Furanmethanol						
2-Propenoic acid, 3-(4-hydr...						
3-Hydroxy-4-methoxybenzoic ...						
4-((1E)-3-Hydroxy-1-propeny...		0.43		3.3		
7-Isopropenyl-1,4a-dimethyl...				2		
9-Octadecenoic acid, (E)-						
Benzoic acid, 4-hydroxy-3,5...						
Bicyclo[10.8.0]eicosane, cis-						
Cyclobutane, methyl-					0.0093	
eicosane		0.26	0.69			
Furfural						
Heneicosane				5.6		
Hentriacontane						
Heptadecane				7.4		
Hexadecanal				0.92		
Hexadecenoic acid, Z-11-		0.3				
n-Hexadecanoic acid		0.48	0.57	3.2		
Nonacosane						
Nonadecane, 9-methyl-			0.51			
Octacosane						
Octadecanal				4.8		
Oxirane, heptadecyl-			0.37			
Oxirane, hexadecyl-						
Pentanoic acid, 4-oxo-						
Phenanthrene, 3,9-bis(1,1-d...						
p-Hydroxycinnamic acid						
Picein						
Squalene			0.41			
Stigmasterol, 22,23-dihydro-						
Tridecane, 1-iodo-						
Urs-12-ene, 3-methoxy-, (3....			0.29			
vanillin						
Vitamin E			0.18	2		

Results reported in mg/Kg
All reported values should be considered and estimate.
PSRG Preliminary Soil Remediation Goal
VOCs Volatile Organic Compounds
SVOCs Semi-Volatile Organic Compounds

APPENDICES

APPENDIX A
Sensitive Environments Research Summary

John Palmer

From: Butler, Rodney A <Rodney.Butler@ncdcr.gov>
Sent: Friday, June 09, 2017 8:57 AM
To: John Palmer
Subject: Princeville Dump
Attachments: project_report_princeville_dump_7672_7672.pdf

Follow Up Flag: FollowUp
Flag Status: Flagged

Thank you for contacting North Carolina's Natural Heritage Program (NCNHP) about the '**Princeville Dump**' project. Attached is a response letter, which contains information on rare species, natural communities, managed areas, and natural areas that are in or within a mile of your project area. This information may assist you with natural resources permitting requirements associated with your projects. Note that NCNHP is a non-regulatory agency and as such, we cannot assess impacts or determine mitigation measures. Please contact me if you have any questions, or if I can be of further assistance.

You may also be interested in our Natural Heritage Data Explorer (NHDE) website (https://ncnhde.natureserve.org/). This website allows you to submit project review requests online and receive a customized report of natural heritage resources within and near project areas in less than 10 minutes. All you need to do is attend training and create a user account and subscription. Please see the NHDE Home page for details training dates.

Within the next few months, the Natural Heritage Program may implement fees to defray costs associated with online access to natural heritage data, project review, environmental services, and field surveys, as authorized by § 113A-164.12. Fees collected will allow NCNHP to continue to provide these services and operate the Natural Heritage Data Explorer (NHDE). We will post more information to our website as soon as the fees are approved. If you have immediate questions, please contact me.

The above referenced project submitted through the Natural Heritage Data Explorer (NHDE) was flagged for Natural Heritage Program staff review because the project area you provided intersects or is adjacent to one or more Element Occurrences with candidate, threatened, or endangered status under the federal Endangered Species Act (ESA).

The record that triggered the review of this project is for Tar River Spinymussel (Elliptio steinstansana), which has endangered status under the ESA. You may wish to contact the U.S. Fish and Wildlife Service – Asheville Ecological Services Field Office at 828-258-3939 for assistance if you have any questions regarding the presence of this species.

Rodney A. Butler
Business Services Coordinator
Division of Land and Water Stewardship
NC Dept. of Natural and Cultural Resources
919.707.8603 office
rodney.butler@ncdcr.gov

121 West Jones Street | 1651 Mail Service Center | Raleigh, North Carolina 27699-1651

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

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North Carolina Department of Natural and Cultural Resources
Natural Heritage Program

Governor Roy Cooper

Secretary Susi H. Hamilton

NCNHDE-3791

June 27, 2017

Ben Whitley
Froehling & Robertson, INC
310 Hubert St.
Raleigh, NC 27603
RE: Re-Do of Princeville Dump

Dear Ben Whitley :

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, or conservation/managed areas within the proposed project boundary. These results are presented in the attached 'Documented Occurrences' tables and map.

The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists and is included for reference. Tables of natural areas and conservation/managed area within a one-mile radius of the project area, if any, are also included in this report.

Please note that natural heritage element data are maintained for the purposes of conservation planning, project review, and scientific research, and are not intended for use as the primary criteria for regulatory decisions. Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications. Maps of NCNHP data may not be redistributed without permission.

Also please note that the NC Natural Heritage Program may follow this letter with additional correspondence if a Dedicated Nature Preserve (DNP), Registered Heritage Area (RHA), Clean Water Management Trust Fund (CWMTF) easement, or an occurrence of a Federally-listed species is documented near the project area.

If you have questions regarding the information provided in this letter or need additional assistance, please contact Rodney A. Butler at rodney.butler@ncdcr.gov or 919.707.8603.

Sincerely,
NC Natural Heritage Program

MAILING ADDRESS:
1651 Mail Service Center
Raleigh, NC 27699-1651

Telephone: (919) 707-8107
www.ncnhp.org

LOCATION:
121 West Jones Street
Raleigh, NC 27603

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area
Re-Do of Princeville Dump
June 27, 2017
NCNHDE-3791

No Element Occurrences are Documented within the Project Area

There are no documented element occurrences (of medium to very high accuracy) that intersect with the project area. Please note, however, that although the NCNHP database does not show records for rare species within the project area, it does not necessarily mean that they are not present; it may simply mean that the area has not been surveyed. Th use of Natural Heritage Program data should not be substituted for actual field surveys if needed, particularly if the project area contains suitable habitat for rare species. If rare species are found, the NCNHP would appreciate receiving this information so that we may update our database.

Natural Areas Documented Within Project Area

Site Name	Representational Rating	Collective Rating
Tarboro Floodplain	R3 (High)	C5 (General)

Managed Areas Documented Within Project Area*

Managed Area Name	Owner	Owner Type
Tar River Game Land	NC Wildlife Resources Commission	State

*NOTE: If the proposed project intersects with a conservation/managed area, please contact the landowner directly for additional information. If the project intersects with a Dedicated Nature Preserve (DNP), Registered Natu Heritage Area (RHA), or Federally-listed species, NCNHP staff may provide additional correspondence regarding the project.

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/content/help. Data query generated on June 27, 2017; source: NCNHP, Q2 April 2017. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area
Re-Do of Princeville Dump
June 27, 2017
NCNHDE-3791

Element Occurrences Documented Within a One-mile Radius of the Project Area

Taxonomic Group	EO ID	Scientific Name	Common Name	Last Observation Date	Element Occurrence Rank	Accuracy	Federal Status	State Status	Global Rank	State Rank
Amphibian	12606	Necturus lewisi	Neuse River Waterdog	2015-01-12	E	3-Medium	Species of Concern	Special Concern	G2	S2
Crustacean	29726	Orconectes carolinensis	North Carolina Spiny Crayfish	2004-07-14	E	3-Medium	---	Special Concern	G3	S3
Freshwater Bivalve	1206	Alasmidonta undulata	Triangle Floater	2013-10-16	E	3-Medium	Species of Concern	Threatened	G4	S3
Freshwater Bivalve	14068	Elliptio roanokensis	Roanoke Slabshell	2015-05-07	E	3-Medium	Species of Concern	Threatened	G3	S3
Freshwater Bivalve	21438	Elliptio steinstansana	Tar River Spinymussel	2001-10-04	E	3-Medium	Endangered	Endangered	G1	S1
Freshwater Bivalve	8246	Lampsilis cariosa	Yellow Lampmussel	2013-10-16	E	3-Medium	Species of Concern	Endangered	G3G4	S3
Freshwater Bivalve	7902	Lampsilis radiata	Eastern Lampmussel	2013-10-16	E	3-Medium	---	Threatened	G5	S3
Freshwater Bivalve	29527	Villosa constricta	Notched Rainbow	1998-09-21	E	3-Medium	Species of Concern	Special Concern	G3	S3
Freshwater Fish	11292	Noturus furiosus	Carolina Madtom	2007-06-13	E	3-Medium	Species of Concern	Threatened	G2	S2
Reptile	10800	Heterodon simus	Southern Hognose Snake	1995-Pre	E	5-Very Low	Species of Concern	Special Concern	G2	S2

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Tarboro Floodplain	R3 (High)	C5 (General)
TAR/Lower Tar River Aquatic Habitat	n/a (Not Applicable)	C1 (Exceptional)

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
Tar River Game Land	NC Wildlife Resources Commission	State

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/content/help. Data query generated on June 27, 2017; source: NCNHP, Q2 April 2017. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

NCNHDE-3791: Re-Do of Princeville Dump

June 27, 2017

1:21,279

0 0.175 0.35 0.7 mi

0 0.275 0.55 1.1 km

- Project Boundary
- Buffered Project Boundary
- Natural Heritage Element Occurrence (NHEO)
- NHP Natural Area (NHNA)
- Managed Area (MAREA)

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

John Palmer

From: Patt, Heather <heather.patt@ncdenr.gov>
Sent: Monday, May 15, 2017 3:21 PM
To: John Palmer
Subject: [Junk released by Allowed List] Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

Dear Mr. Palmer,

In reviewing the information for the Princeville Dump property off of Jenkins St in Princeville, NC, I determined that this area is classified as "Environmentally Sensitive" or "State-Designated Areas for Protection or Maintenance of Aquatic Life". This area drains into the Tar River. We recommend any activity on this property should minimize sediment, metal, and nutrient runoff to surface water. The groundwater leaving this site likely contributes to the base flow and if contaminated could lead to the degradation of the aquatic life in this system.

Information on all monitored waters (305b-Integrated Report) within the State can be found here: http://deq.nc.gov/about/divisions/water-resources/planning/modeling-assessment/water-quality-data-assessment/integrated-report-files.

If you have any additional questions please let me know.

~Heather

Heather Patt
Basin Planner
DEQ- Division of Water Resources
1611 MSC, Raleigh, NC 27699-1617
office: 919-707-9117
fax: 919-733-3558
heather.patt@ncdenr.gov
http://deq.nc.gov/about/divisions/water-resources/planning/basin-planning

Nothing Compares

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: John Palmer [mailto:JPalmer@FandR.com]
Sent: Monday, May 15, 2017 10:56 AM

To: Mcmillan, Ian ; Williams, Melanie
Subject: Sensitive Environments Information Request

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

FROEHLING & ROBERTSON, INC.
310 Hubert Street, Raleigh, NC 27603 | USA
T 919.828.1341 | F 919.828.5751 | M 919.630.1945
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John Palmer

From: DCR - Environmental_Review <Environmental.Review@ncdcr.gov>
Sent: Thursday, June 08, 2017 4:11 PM
To: John Palmer
Subject: RE: Sensitive Environments Information Request
Attachments: ER 17-0930.pdf

Follow Up Flag: FollowUp
Flag Status: Flagged

Our response is attached. Thank you.

Renee Shearin
Environmental Review Technician, State Historic Preservation Office
North Carolina Department of Natural and Cultural Resources
(919) 807-6584 Office
renee.shearin@ncdcr.gov

109 East Jones Street | 4603 Mail Service Center | Raleigh, North Carolina 27699

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Please submit all Environmental Review projects to environmental.review@ncdcr.gov. Only one project per email. Allow at least 30 days for our review. We try hard to complete the reviews in fewer days, but under state and federal regulations we have a mandatory 30 days.

See http://www.hpo.ncdcr.gov/er/er_email_submittal.html for guidelines on submitting projectsfor environmental review.

Do not send .zip, .tif files, downloads, or links to websites as we are not able to process these types of items. The message size, including all attachments, should be no larger than 20 megabytes.

From: John Palmer [mailto:JPalmer@FandR.com]
Sent: Monday, May 15, 2017 10:51 AM
To: DCR - Environmental_Review
Subject: Sensitive Environments Information Request

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary Susi H. Hamilton

Office of Archives and History
Deputy Secretary Kevin Cherry

June 8, 2017

John Palmer
Froehling & Robertson, Inc.
310 Hubert Street
Raleigh, NC 27603

Re: Inactive Hazardous Site, Princeville Dump, Jenkins Street, Princeville, Edgecombe County, ER 17-0930

Dear Mr. Palmer:

Thank you for your email of May 15, 2017, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-807-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number.

Sincerely,

Renee Gledhill-Earley

for Ramona M. Bartos

John Palmer

From: Luczak, Heather L -FS <hluczak@fs.fed.us>
Sent: Monday, May 15, 2017 11:08 AM
To: John Palmer
Subject: RE: Sensitive Environments Information Request

Mr. Palmer,
There are no Designated and Proposed Federal Wilderness and Natural Areas, National Preserves and Forests, or Federal Land Designated for the Protection of Natural Ecosystems within 500 feet of the site located on at Jenkins Street, in Princeville, Edgecombe County, North Carolina.

Heather Luczak
Forest NEPA Coordinator

Forest Service
National Forests in NC

p: 828-257-4817
f: 828-259-0567
hluczak@fs.fed.us

160 Zillicoa St. Suite A
Asheville, NC 28805
www.fs.fed.us

Caring for the land and serving people

From: John Palmer [mailto:JPalmer@FandR.com]
Sent: Monday, May 15, 2017 10:55 AM
To: Luczak, Heather L -FS
Subject: Sensitive Environments Information Request

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 11:02 AM
To: 'Anita_Barnett@nps.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 11:01 AM
To: 'Ted.Tyndall@ncdenr.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 11:03 AM
To: 'Chris.Carlson@ncdenr.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 11:04 AM
To: 'David.Cox@ncwildlife.org'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 10:51 AM
To: 'environmental.review@ncdcr.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 10:53 AM
To: 'Harrington@usace.army.mil'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 10:55 AM
To: 'Hluczak@fs.fed.us'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 10:56 AM
To: 'Ian.Mcmillan@ncdenr.gov'; 'melanie.williams@ncdenr.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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310 Hubert Street, Raleigh, NC 27603 | USA
T 919.828.1341 | F 919.828.5751 | M 919.630.1945
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John Palmer

From: John Palmer
Sent: Monday, May 15, 2017 10:58 AM
To: 'natural.heritage@ncdcr.gov'
Subject: Sensitive Environments Information Request
Attachments: Princeville Dump S.E. Request Package 5-15-17.pdf

F&R is conducting an environmental assessment as directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch.

This site is located at (off) Jenkins Street, in Princeville, Edgecombe County, North Carolina; please find our request for sensitive environments information package attached. Please email or fax your response, and we very much appreciate any assistance you might be in this matter.

Respectfully,

John Palmer, P.G.
Senior Geologist

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Engineering Stability Since 1881

310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.522.0304
NC License #F-0266

May 15, 2017

Reference: Request for Sensitive Environment(s) Information
Princeville Dump

To Whom it may concern:

Froehling & Robertson, Inc. is conducting an environmental assessment under the Guidelines for Assessment and Cleanup directed by the NCDEQ Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch. These Guidelines mandate a sensitive environments evaluation be performed the site, and properties within 500 feet of the perimeter of a former disposal area.

The facility under assessment:

Princeville Dump
(off) Jenkins Street
Princeville, Edgecombe County, NC
Pin Number: 4737-44-648

NCDENR IHSB ID #: NONCD0000297

The center of the closed disposal appears to be approximately:
Latitude:
35.86988
Longitude:
77.53015

A site vicinity map has been prepared and attached to this correspondence. The suspected boundary of the waste disposal area is illustrated on the map, as well as appropriate radius lines. One relatively modern farm/storage structure is currently located within, or adjacent to the boundary of the suspected WDA boundary illustrated on the attached maps.

This project entails the completion of a Remedial Investigation-First Phase Report to include this sensitive environment evaluation, as well as a geophysical survey for this unlined, pre-regulatory landfill. The table that follows has been published by the NCDEQ IHSB listing contact info for the governmental entities believed to be principally responsible for maintaining data concerning various types of sensitive environments. F&R requests that your office provide any information

on the existence of the sensitive environments **within 500 feet of the site**, in accordance with the third column of the following table:

Department or Office	Name & Contact Info	Sensitive Environments	Sensitive Environments Identified (YES / NO)
NC Division of Conservation, Planning, and Community Affairs – Natural Heritage Program	Email: natural.heritage@ncdcr.gov Website: http://portal.ncdenr.org/web/nhp/data-services (website inoperative)	State Parks Areas Important to Maintenance of Unique Natural Communities Sensitive Areas Identified Under the National Estuary Program Designated State Natural Areas State Seashore, Lakeshore and River Recreational Areas Rare species(state and federal Threatened and Endangered) Sensitive Aquatic Habitat State Wild & Scenic Rivers	
National Park Service - Public Affairs Office	Anita Barnett Anita_Barnett@nps.gov (404) 507-5706 http://www.nps.gov/rivers	National Seashore, Lakeshore and River Recreational Areas National Parks or Monuments Federal Designated Wild & Scenic Rivers	
US Forest Service	Heather Luczak Hluczak@fs.fed.us (828) 257- 4817	Designated and Proposed Federal Wilderness and Natural Areas National Preserves and Forests	

		Federal Land Designated for the Protection of Natural Ecosystems	
NC Division of Water Resources	Ian McMillan Ian.Mcmillan@ncdenr.gov (919) 807-6364 or Melanie Williams Melanie.Williams@ncdenr.gov (919) 707-9000 *Ask for Clean Water Act 305b report*	State-Designated Areas for Protection or Maintenance of Aquatic Life	
NC Division of Forest Resources	Chris Carlson Chris.Carlson@ncdenr.gov (919) 857-4819	State Preserves and Forests	
US Fish & Wildlife Service	Pete Benjamin Pete_Benjamin@fws.gov (919) 856-4520 x 11	Endangered Species Terrestrial Areas Utilized for breeding by Large or Dense Aggregations of Animals National or State Wildlife Refuges	
NC Department of Natural and Cultural Resources	Renee Gledhill-Earley (919) 807 – 6579 email: environmental.review@ncdcr.gov	National and State Historical Sites	
NC Division of Coastal Management	Ted Tyndall Ted.Tyndall@ncdenr.gov (252) 808-2808 http://dcm2.enr.state.nc.us	Areas Identified Under Coastal Protection Legislation Coastal Barriers or Units of a Coastal Barrier Resources System. Marine Sanctuaries	
NC Wildlife Resources Commission	David Cox (919) 707-0366 David.Cox@ncwildlife.org	National or State Wildlife Refuges State lands designated for wildlife or game management	

		Migratory Pathways and Feeding Areas Critical for Maintenance of Anadromous Fish Species within River Reaches or Areas in Lakes or Coastal Tidal Waters in which such Fish Spend Extended Periods of Time Spawning Areas Critical for the Maintenance of Fish/Shellfish Species within River, Lake or Coastal Tidal Waters. Areas Likely to serve as a natural area attractive to terrestrial ecological receptors Areas of stressed vegetation or wildlife	
US Army Corps of Engineers	Dorothy Harrington Dorothy.Harrington@usace.army.mil (919) 554-4884, x 28	Wetlands	

Please forward this completed form, and/or any comments to:

Email: jpalmer@fandr.com

US Mail: John Palmer - Froehling & Robertson, Inc - 310 Hubert Street, Raleigh, NC 27603

Your cooperation in this matter is greatly appreciated. Should you have any questions concerning this sensitive environment information request, please contact our Raleigh office (919) 828-3441.

Respectfully,
FROEHLING & ROBERTSON, INC.

John Palmer, P.G.
Senior Geologist

Attached: Site & Vicinity Maps

Site Map

0 55 110 220 330 440 Feet

N

SINCE F&R 1881

FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881
310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-0303-0001 Task Order 297 FP-3
Data:	NC One Map 2016
Date:	May 2017

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

Scale: 1:1,200 1 inch = 100 feet

FIGURE No.: 1

Vicinity Map

0 165 330 660 990 1,320 Feet

N

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FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881
310 Hubert Street
Raleigh, North Carolina 27603-2302 I USA
T 919.828.3441 I F 919.828.5751

Client:	NCDEQ
Project:	Princeville Dump
Location	Princeville, Edgecombe County, NC
F&R Project No.:	66U-0303-0001 Task Order 297 FP-3
Data:	NC One Map 2016
Date:	May 2017

Disclaimer: F&R makes no warranties or guarantees regarding the accuracy or completeness of geographic features shown on this map. Spatial accuracy of measurement provided by source agencies can be obtained by contacting F&R.

Scale: 1:3,600 1 inch = 300 feet

FIGURE No.: 2

APPENDIX B
Geophysical Investigation

Geo Solutions Ltd.

August 03, 2017

Mr. John Palmer
Froehling & Robertson, Inc.
310 Hubert Street
Raleigh, North Carolina 27603

Re: Pre-Regulatory Waste Dump Site Princeville, NC

Dear Mr. Palmer:

Geo Solutions Limited, Inc. (Geo Solutions) is pleased to submit this report for a geophysical evaluation at a suspected former dump site located in Princeville, North Carolina.

Background
An aerial photograph of the approximate site location is presented in Figure 1 below:

Figure 1. Aerial Photograph of approximate location of suspected dump site (outlined in solid red and extended survey area in dashed red). The approximate location of proposed grid presented in yellow.

This area represents approximately two acres however the survey was extended well beyond the proposed limits. At the time of this field survey the nature of the potential dump material was not known.

Field Evaluation

Geo Solutions completed all field work on August 01, 2017. Geo Solutions conducted the following geophysical investigations to assist in the delineation of the buried waste:

1. Geo Solutions completed an electromagnetic evaluation (EM) of the approximately 2-acre site by collecting data on a minimum of 50-ft grid (most of the work was completed on a grid less than 10 ft interval. Geo Solutions extended the limits of the survey out to cover approximately 5-acres however the survey density was less due to restricted access (heavy vegetative cover, buildings, and surface debris).

2. The EM unit was hand carried to extend the survey lines into the heavily vegetative areas and livestock pens.

3. The EM evaluation was completed using an EM geophysical profiler operating under Geonics Model EM-31 mode using a Geophex GEM-2. The EM unit was towed on a custom sled by an All Terrane Vehicle (ATV) except in the heavily vegetative areas and livestock pens where it was hand carried.

4. The location of the EM profile lines were located using a GPS unit reporting in UTM and later converted to latitude/longitude coordinates (reported to 7th order) (Figure 2).

5. Geo Solutions compiled site maps showing the EM results. The results show the in-phase and apparent conductivity values and identified surface features that may affect the results of the evaluation (i.e., metal culverts and surface debris). From this information, the extent of the landfill material within the surveyed area was evaluated and presented on a map (Figures 3 and 4 for in-phase data and apparent conductivity respectively).

6. The boundaries of the waste material was identified using geographic coordinates starting from the northern most point of the fill, proceeding clockwise full circle (Figure 5) using the composite data presented in Figures 3 and 4.

Results and Conclusions

Geo Solutions completed an EM evaluation to estimate the lateral distribution of suspected buried waste material. The type of waste material can be estimated based on the in-phase and apparent conductivity (quadrature) response. Metal debris commonly expresses higher responses in the in-phase mode. Whereas, more conductive material exhibits stronger responses in the quadrature mode (presented here as apparent conductivity). Figures 3 and 4 illustrate the in-phase and apparent conductivity results.

Based on the combined results of in-phase and apparent conductivity, Geo Solutions created a composite map that best illustrates the responses of the two collection modes (Figure 5). Geo Solutions estimated the lateral limits of potential fill by outlining the areas that exhibited strong EM responses. The outline of potential fill is presented in Figure 5 however, the landfill appears to extend southwest of the area surveyed. The EM survey indicates that the waste fill extends to the southwest of the areas surveyed. Further, the waste materials are exposed in the livestock pens southwest of the survey area. The survey boundary could not be extended farther south at the time of the survey due to heavy vegetative cover. It is recommended to extend the survey boundary southward to characterize the landfill extents in this area. However, this will require selectively clearing profile lines (walking trails spaced approximately 50 feet apart) south of the current survey area. In addition to the area delineated as containing potential buried fill, scattered surface debris including tires, rims, and various metallic and non-metallic debris are visible at the surface outside of this area. This is thought to be related to the past flooding events in the area distributing the waste material outside the original burial location. These surface features were detected during the EM survey and are noted on Figure 5.

By comparing the initial area to be surveyed (under contract) shown in Figure 1 and the area of potential fill in Figure 5 it has been determined that the area of potential fill is much larger than initially suspected.

Geo Solutions used 30 survey points (shown in Figure 5) to outline the estimated extent of fill within the surveyed area however, the potential waste fill extends southwest of the surveyed area. The station coordinates are presented in geographic coordinates below:

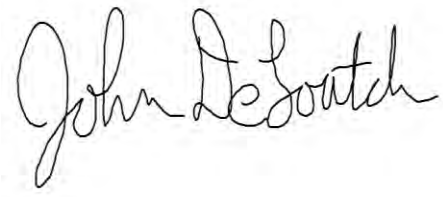
Station	Longitude	Latitude
1	-77.5300296	35.8702633
2	-77.5298402	35.8703055
3	-77.5296170	35.8702450
4	-77.5295035	35.8701528
5	-77.5293893	35.8700405
6	-77.5292165	35.8699968
7	-77.5289550	35.8699461
8	-77.5289523	35.8697751

9	-77.5291383	35.8697127
10	-77.5294066	35.8697138
11	-77.5295129	35.8696665
12	-77.5296330	35.8695312
13	-77.5296842	35.8693996
14	-77.5295271	35.8693286
15	-77.5295036	35.8692008
16	-77.5296365	35.8691170
17	-77.5296744	35.8689434
18	-77.5298071	35.8688483
19	-77.5299552	35.8688807
20	-77.5301708	35.8688762
21	-77.5303952	35.8688917
22	-77.5303376	35.8689919
23	-77.5302277	35.8691023
24	-77.5302060	35.8692895
25	-77.5301923	35.8694676
26	-77.5301894	35.8696365
27	-77.5301647	35.8698171
28	-77.5301939	35.8699515
29	-77.5302460	35.8701102
30	-77.5301106	35.8702008

Geo Solutions is pleased to have been provided this opportunity, please give me a call should you have any questions concerning the above information.

Very truly yours,

GEO SOLUTIONS LIMITED, INC.



John DeLoatch, PG
Geologist

FIGURE 2

LEGEND

Indicates Location of EFEM Data Point

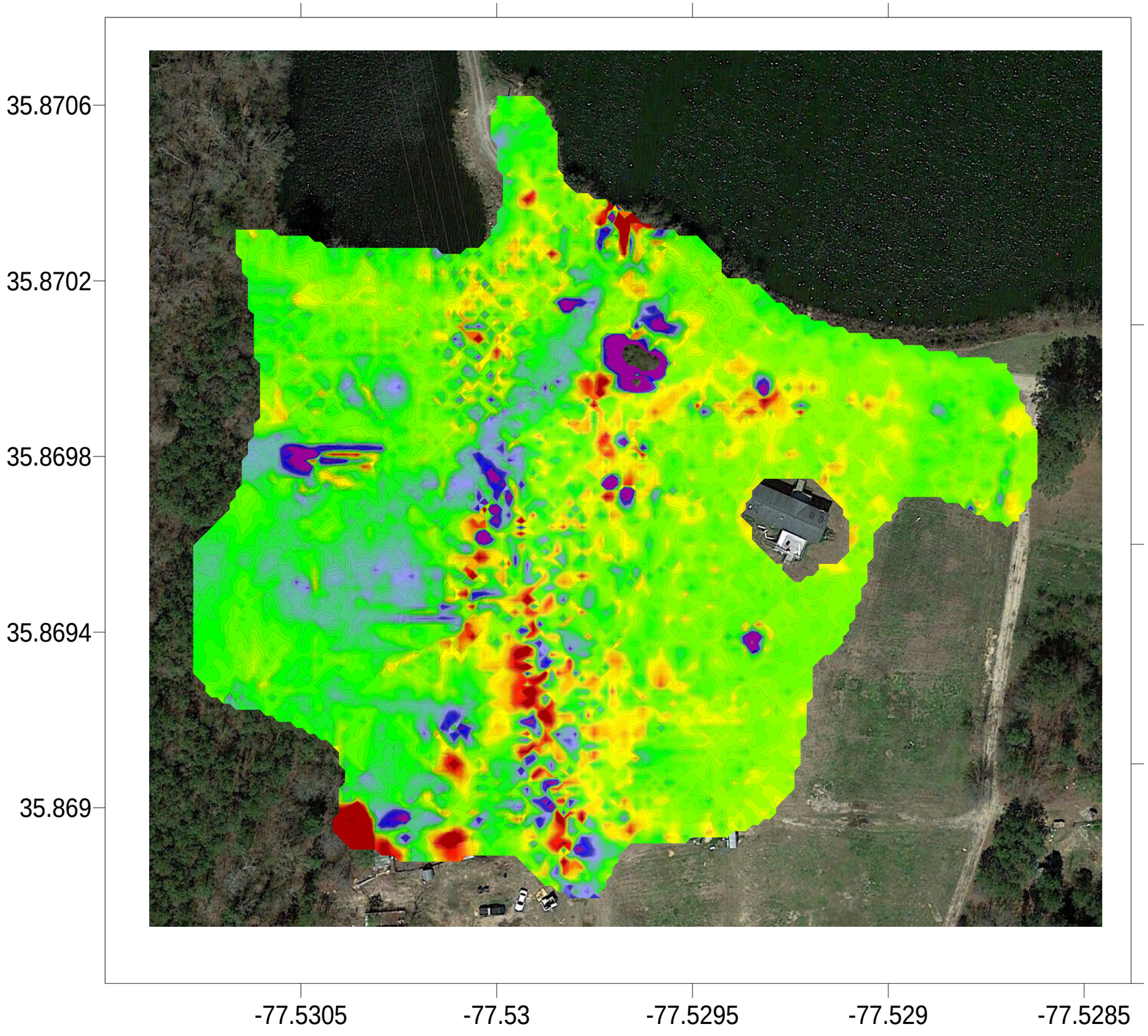
MULTIFREQUENCY EM GEOPHYSICAL SURVEY
Princeville, NC

0 100
SCALE IN FEET

Surveyed: 8/01/2017

Geo Solutions Ltd.

FIGURE 3



LEGEND

In-Phase DATA 9810 Hz

1850
1550
1250
950
650
350
50
-250
-550
-850
-1150
-1450
-1750
-10000

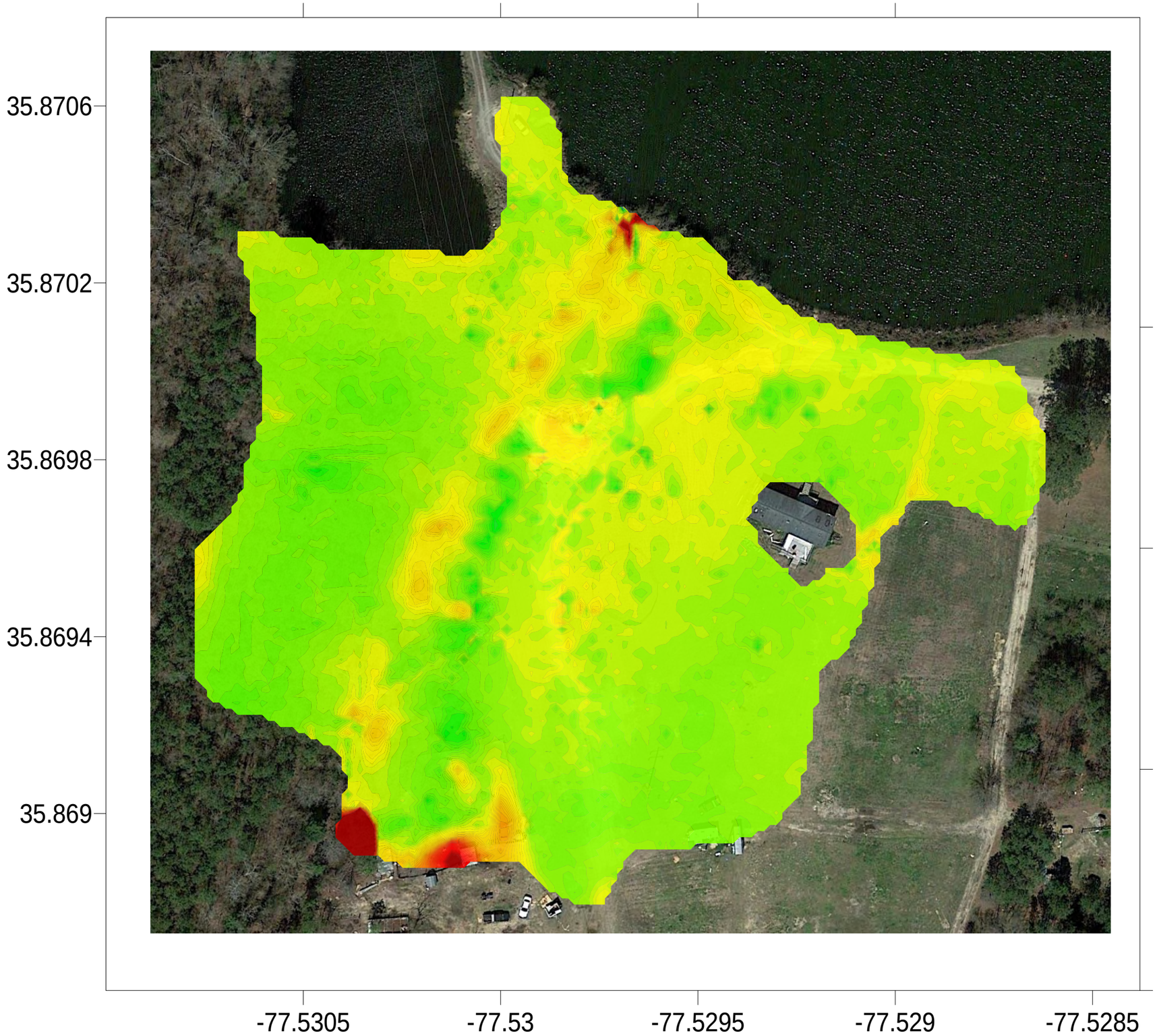
MULTIFREQUENCY EM GEOPHYSICAL SURVEY
Princeville, NC

0 100
SCALE IN FEET

Surveyed: 8/01/2017

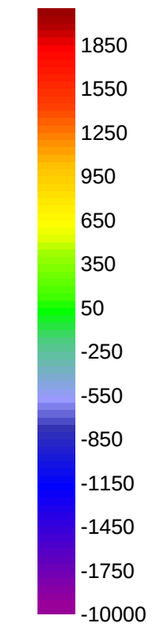
Geo Solutions Ltd.

FIGURE 4



LEGEND

Apparent Conductivity DATA 32190 Hz



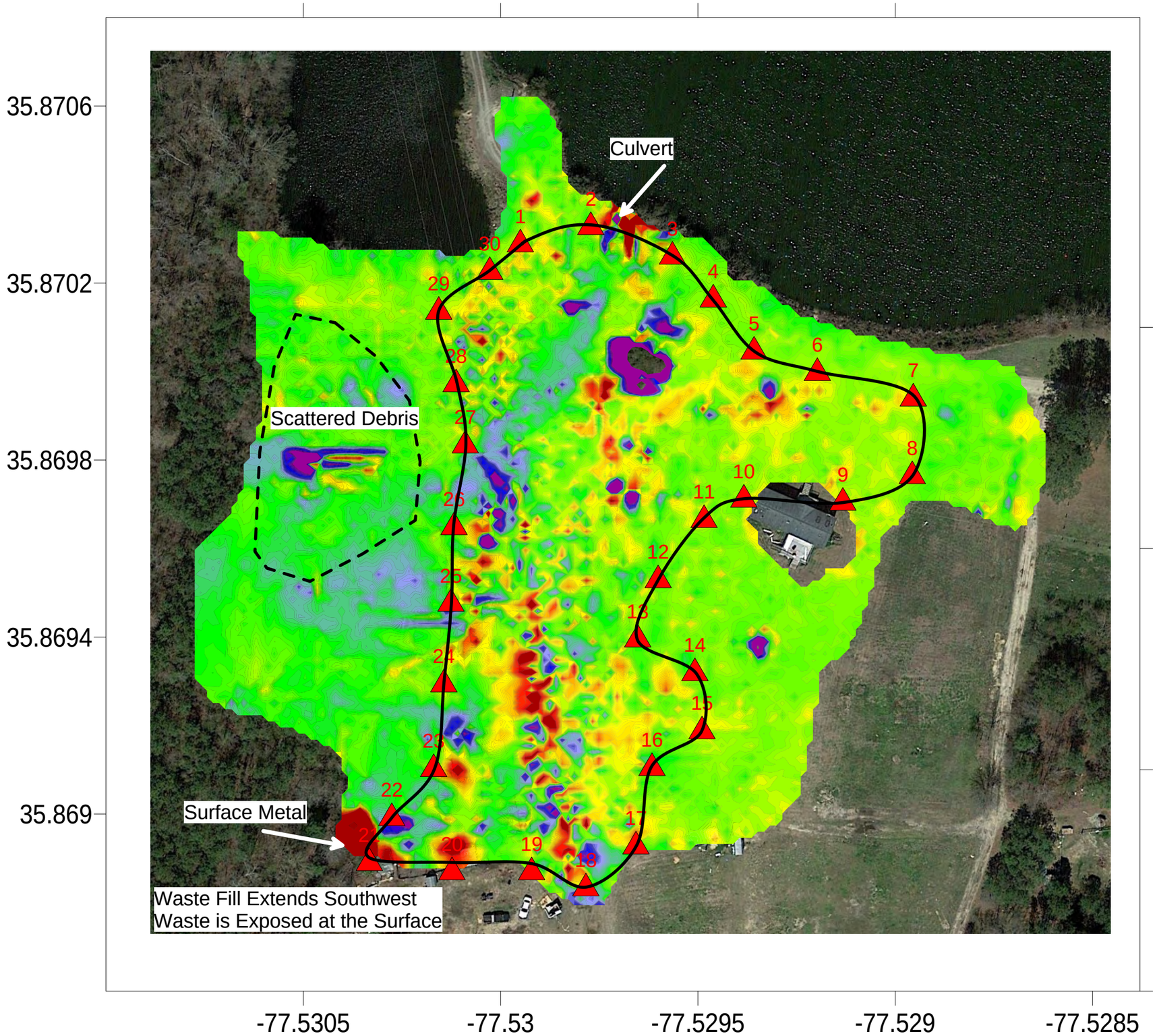
MULTIFREQUENCY EM GEOPHYSICAL SURVEY
Princeville, NC

0 100
SCALE IN FEET

Surveyed: 8/01/2017

Geo Solutions Ltd.

FIGURE 5



LEGEND

Composite Data Outline of Suspected Landfill

5

MULTIFREQUENCY EM GEOPHYSICAL SURVEY
Princeville, NC

0 100
SCALE IN FEET

Surveyed: 8/01/2017

Geo Solutions Ltd.

APPENDIX C
Field Documentation

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRINCEVILLE

Date: 1/16/18

Project No.: 66J-0303-0002

Personnel: WRD / JP

Well ID: SW-1 / SD-1

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-1 SAMPLED @ 1210
VOC = 0.0 PPM

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1204	—	—	7.2	113.4	7.03	4.46
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-1

Sample Time: 1205

Parameters Measured with: YSI PROF-16F101843
HANNA 98703-9036

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRWCEVILLE

Project No.: 660-0303-0002

Date: 1/10/18

Personnel: WRB / JP

Well ID: SW-2 / SD-2

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-2 SAMPLED @ 1230
VOC = 0.0 PPM

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1224	—	—	9.1	142.8	6.69	360
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-2

Sample Time: 1225

Parameters Measured with: YSI PROF-16F101843
HANNA 98703-9036

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRINCEVILLE

Project No.: 66V-0303-0002

Date: 1/16/18

Personnel: W.D. + J.P.

Well ID: SW-3 / SD-3

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-3 SAMPLED @ 1130
VOC READING = 0.1 PPM

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1124			6.8	153.0	7.41	4.46
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-3 / SD-3

Sample Time: 1125

Parameters Measured with: YSI PROF-16F 101843
HANNA 98703-9036

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRINCETVILLE

Date: 1/16/18

Project No.: 660-0303-0002

Personnel:

Well ID: SW-4 / SD-4

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-4 SAMPLED @ 1315
(SD-DUP) VOC = 0.0 PPM
(SW-DUP) PULLED FROM THIS LOCATION

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1310	—	—	9.2	115.5	6.91	23.1
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-4

Parameters Measured with: YSI PROF-16F101843
HANNA 98703 - 9036

Sample Time: 1310

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRINCEVILLE

Date: 1/16/18

Project No.: 66W-0303-0002

Personnel:

Well ID: SW-5 / SD-5

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-5 sampled @ 1410
VOC = 0.0 PPM

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1405	—	—	9.6	95.6	6.80	14.5
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-5

Parameters Measured with: YSI PROF-16F101843

Sample Time: 1405

HANNA 98703-9036

GROUNDWATER SAMPLING FORM

Page 1 of 1

Site Name: PRINCEVILLE

Date: 1/16/18

Project No.: 660-0303-0002

Personnel:

Well ID: SW-6 / SD-6

Well Dia.:

Well Depth:

Depth to Water:

Screen Depth:

Well Volume:

Pump Depth:

[2" = water column x 0.163]

Notes: SD-6 SAMPLED @ 1450
VOCS = 0.1 PPM

Time (24 hr)	Water Level (datum TOC)	Purge Volume	Temp (°C)	Spec. Cond. (µS/cm)	pH (std. unit)	Turbidity (NTU)
1444	—	—	10.0	147.8	6.31	5.26
Criteria:			+/- 1	+/- 10%	+/- 0.1	< 10

Sample ID: SW-6

Parameters Measured with: YSI PROF - 16F101843

Sample Time: 1445

HANNA 98703 - 9036

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-1
Project #	66U-0303-0001	Date	1/30/18
F&R Staff	J.P.	Time	1425
Drilling Co.	QUANTEX	GW Depth	6.5' → 6.0'
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-1	0.0	5.5	SILTY V.FN → FN SAND W/CLAY; 10 → 30% FWES, MOIST, YLW/BRWN				
	5.5	10.0	SILTY CLAYEY FN → MED SAND; ~10 → 25% FWES, MOIST → WET, ORG/BRWN				
B-1-A (IN)	0.0	5.0	SAME				
	5.0	9.5	SILTY CLAYEY FN → MED SAND; ~10 → 25% FWES, MOIST → WET, ORG/BRWN				
	~~9.5~~	~~15.0~~					
	9.5	15.0	SILTY FN → CS SAND W/CLAY; ~5 → 15% FWES, WET, BRWN/GRAY				
B-1-B (IN)	0.0	4.5	SAME				
	4.5	10.0	SAME				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-2
Project #	66U-0303-0001	Date	~~1510~~ 1/30/18
F&R Staff	J.P.	Time	1510
Drilling Co.	QUANTEX	GW Depth	3.5 ~~4.0~~ → 4.5'
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-2	0.0	~~4~~ 4.5	SILTY CLAYEY V.FN → FN SAND; ~15 → 35% FINES, V. MOIST, ORG/GRAY				
	4.5	10.0	SILTY CLAYEY FN → MED SAND; 10 → 20% FINES, V. MOIST → WET, YLW/BRWN				
B-2-A (IW)	0.0	3.5	SAME.				
	3.5	10.0	SILTY FP → MED SAND W/CLAY; ~5 → 17% FINES, V. MOIST → WET, GRAY			GW @ ~ 3.5' BLS THIS IS @ DRILLHOLE	

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-3
Project #	660-0303-0001	Date	1/30
F&R Staff	J.P.	Time	0940
Drilling Co.	QUANTEX	GW Depth	6.0 → 6.5' BLS
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
	0.0	4.0	SILTY V. FN → FN SAND; 15 → 30% FINES, MOIST → V. MOIST, YLW/BRWN				
B-3	4.0	10.0	SILTY FN → MED SAND; 5 → 15% FINES, V. MOIST, ORG/BRWN				
B-3A (1P)	0.0	4.0	SAME				
	4.0	10.0	SAME				
B-3-B (1P)	0.0	4.5	SAME				
	4.5	10.0	SAME				
B-3-C (1P)	0.0	4.5	SAME				
	4.5	10.0	SAME				

SOME SURFACE WASTE IS SCATTERED IN VICINITY OF ALL THESE BORINGS

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-4
Project #	66U-0303-0001	Date	1/30/18
F&R Staff	J.P.	Time	1530
Drilling Co.	QUANTEX	GW Depth	~8.0'
Driller	MIKE + MARK	Elevation	

Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
0.0	~~6.0~~ 5.5	SILTY V. FN → FN SAND; ~10 → 25% FINES, MOIST, YLW / BRN				
5.5 (B-4-A (IN))	~~6.0~~ 9.5	SILTY FN → MED SAND W/ CLAY; ~5 → 15% FINES, V. MOIST → WET, OLIVE / BRN				
9.5	15.0	SILTY MED → VCS SAND; ~5 → 10% FINES, WET, GRAY / BRN				
0.0	6.0	SAME				
6.0 (B-4)		SAME				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-6 + B-5
Project #	660-0303-0001	Date	
F&R Staff	J.P.	Time	~~0835~~ + 0845
Drilling Co.	QUANTEX	GW Depth	~~NOT DETERMINED~~ ~8.0'
Driller	MIKE + MARK	Elevation	

Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
0.0	5.5	SILTY V. FN → FN SAND; ~10 → 30% FINES, MOIST → V. MOIST, YLW / GRAY				B-5 + B-6 ARE SAME!!
5.5	10.0	SILTY FN → MED SAND; ~5 → 15% FINES, V. MOIST → WET, YLW / GRAY				
0.0	5.0	SILTY V. FN → FN SAND; 15 → 30% FINES, MOIST, YLW / GRAY				
5.0	10.0	SILTY FN → MED SAND W/ CLAY; MID → 20% FINES, MOIST → WET, ORG / GRAY				

B-5 & B-6

B-6A (IN)

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-7
Project #	660-0303-0001	Date	~~2~~ 1/30/18
F&R Staff	J.P.	Time	0800T
Drilling Co.	QUANTEX	GW Depth	~8.0 ?
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-7	0.0	5.0	SILTY V.FN → FN SAND; ~15 → 30% FWES; MOIST → V. MOIST, YLW/ORN				
	5.0	10.0	SILTY ~~V~~ FN → MED SAND W/CLAY; ~10 → 20% FWES, V. MOIST → WET, ORG/GRAY				
B-7-A (IN)	0.0	6.0	SAME				
	6.0	10.0	SAME				
B-7-B (IN)	0.0	1.5	SAME				
	1.5	10.0	SILTY FN → ~~CS~~ MED SAND W/ CLAY; ~5 → 15% FWES, V. MOIST → WET, ORG/~~GRAY~~ BRWN				
B-7-C (IN)	0.0	~~8~~ 4.5	SAME				
	4.5	10.0	SILTY FN → MED SAND; ~10 → 20% FWES, V. MOIST → WET, ORG/BRWN				

* WASTE / SURFACE SOILS ARE INTERMIXED TO DEPTH OF 12" BGS @ ~~B-7-7~~ B-7-B + B-7-C

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-8
Project #	660-0303-0001	Date	1/29/18
F&R Staff	J.P.	Time	
Drilling Co.	QUANTEX	GW Depth	7.5'
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-8	0.0	4.0	SILTY CLAYEY V. FN SAND; 20→35% FINES, V. MOIST, BROWN/GRAY				
	4.0	10.0	SANDY CLAYEY SILT; ~10→30% V. FN SAND, V. MOIST→WET, OLIVE/BROWN				
B-8-A (IN)	0.0	3.5	SAME				* ADDED B-8-A ON 1/30/18
	~~3.5~~	~~9.0~~	~~SILTY FN→CS SAND; ~5→15% FINES~~				
	3.5	9.0	SAME				* GW @ 7.0' BLS
	9.0	15.0	SILTY FN→CS SAND; ~5→15% FINES, WET, GRAY/BROWN				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-9
Project #	66U-0303-0001	Date	1/24
F&R Staff	J.P.	Time	1420
Drilling Co.	QUANTEX	GW Depth	~8.0' BLS → 7.0' BLS
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
	0.0	3.5	SILTY CLAYEY V.FN SAND; ~30→40% FINES, V. MOIST, BROWN/GRAY				
B-9	3.5	8.0	SANDY CLAYEY SILT; ~15→25% V. FN SAND, V. MOIST → WET, ~~GR~~ BROWN/ORANGE				
	8.0	10.0	SILTY FN→CS SAND; ~5→15% FINES, WET, ~~ORG/BROWN~~ GRAY/BROWN				
B-9-A (IN)	0.0	4.0	SILTY CLAYEY V.FN SAND; SAME PROPERTIES				
	4.0	8.0	SAME				
	8.0	10.0	SAME				
B-9-B (IN)	0.0	4.5	SAME, GRAY/BROWN				
	4.5	10.0	SILTY FN→MED SAND; 10→20% FINES, V. MOIST → WET, ORG/BROWN				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-10
Project #	660-0303-0001	Date	1/29
F&R Staff	J.P.	Time	1310
Drilling Co.	QUANTEX	GW Depth	~7.5'
Driller	MIKE + MARK	Elevation	

Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-10		SILTY V. FN TO FN SAND W/ CLAY;				
0.0	4.5	~15 → 20% FWGR, V. MOIST, DKL BRN				
4.5	15.0	SILTY *FN → ~~MED~~ COARSE SAND W/ CLAY;				
		~5 → 10% FWES, V. MOIST → WET,				
		DKL BRWN				

*DID NOT OFFSET / RAWWL + WIRES TOO CLOSE!!!

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-11
Project #	660-0303-0001	Date	12/29
F&R Staff	J.P.	Time	
Drilling Co.	QUANTEX	GW Depth	~7.0' BLS
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
	B-11						(112T)
	0.0	4.0	V.FN → MED SILTY SAND (DISTURBED?); ~10% FWES, V. MOIST; ORG/BROWN				
OFFSET (1)	4.0	10.0	SILTY FN → CS SAND; ~5 → 10% FWES, V. MOIST → WET, ORG/BROWN				
	0.0	5.0	SILTY FNG → MED SAND; ~10 → 15% FWES, V. MOIST, ORG/BROWN				
OFFSET (2)	5.0	10.0	SILTY CLAYEY V.FN → FN SAND; ~15 → 25% FWES, V. MOIST → WET, ORG/BROWN				
	0.0	5.0	SAME AS ABOVE				
OFFSET (3)	5.0	10.0	" " "				
	0.0	4.0	" " "				
B-11	4.0	10.0	" " "				
B-11-A (IN)	0.0	4.5	" " "				
	4.5	10.0	" " "				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-12
Project #	660-0303-0001	Date	1/29
F&R Staff	J.P.	Time	1325
Drilling Co.	QUANTEX	GW Depth	
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
	0.0	4.0	SILTY V. FN → FN SAND W/CLAY; ~20→25% FINES, V. MOIST, ORG/BROWN				
B-12	4.0	10.0	SILTY V. FN → MED SAND W/CLAY; ~5→10% FINES, V. MOIST → WET, ORG/BROWN				
B-12-A	0.0	1.5	SURFACE WASTES (ASW + MASONRY)				
~~OFFSET~~ (~~OFFSET~~)	1.5	4.0	SILTY V. FN → FN SAND W/CLAY; ~20→25% FINES, V. MOIST, ORG BROWN				
	4.0	10.0	SAME				
	0.0	4.0	SAME				
B-12 OFFSET	4.0	15.0	~~SAME~~ SILTY V. FN → CS SAND W/CLAY; 5→15% FINES, V. MOIST → WET, ORG/BROWN				
B-12-A OFFSET			B/C WASTE @ SURFACE INSIDE			COAT	BROWN

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-13
Project #	66U-0303-0001	Date	1/29/18
F&R Staff	J.P.	Time	1525
Drilling Co.	QUANTEX	GW Depth	~7.0' BLS → 7.5'
Driller	MIKE & MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-13	0.0	4.0	SILTY V.FN → FN SAND W/ CLAY; ~20→30% FWOS, V. MOIST, GRAY BROWN				
	4.0	10.0	SILTY CLAYEY FN → MED SAND; 10→15% FWOS, V. MOIST → WET, YELLOW/BRWN				
B-13-A (1W)	0.0	3.5	SILTY V.FN → FN SAND W/ CLAY; SAME PROPS				
	3.5	10.0	SAME				
B-13-B (1E)	0.0	4.0	SILTY V. FN → FN SAND; ~10 → 20% FWOS, MOIST → V. WET, YLW/BRWN				
	4.0	10.0	SILTY FN → CS SAND W/ CLAY; ~5 → 10% FWOS, V. MOIST → WET, ORG/BRWN				

* SOME SURFACE WASTE SCATTERED AROUND B-13|B

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-14
Project #	66U-0303-0001	Date	1/30/18
F&R Staff	J.P.	Time	1340
Drilling Co.	QUANTEX	GW Depth	~6.0 ?
Driller	MIKE + MARK	Elevation	

Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
0.0	5.0	SILTY V. FN → FN SAND W/ CLAY; 15→25% FINES, MOIST → V. MOIST, ORG/BRN				
5.0	10.0	SILTY FN → MED SAND; ~10→15% FINES, V. MOIST → WET, ORG/BRN				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-15
Project #	66U-0303-0001	Date	1/30
F&R Staff	J.P.	Time	1400
Drilling Co.	QUANTEX	GW Depth	6.0 → 6.5'
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
	0.0	5.5	SILTY CLAY V. FN SAND; ~25→40% FINES, MOIST → V. MOIST, ORG / GRAY				
B-15-A (IN)	5.5	12.0	SILTY V. FN → MED SAND W/ CLAY; ~10→40% FINES, V. MOIST → WET BROWN / GRAY				
	12.0	15.0	SILTY FN → CS SAND W/ CLAY; ~5→15% FINES, WET, GRAY / BROWN → GRAY				
	0.0	5.0	SAME				
B-15	5.0	10.0	SAME (EXCEPT 10→30% FINES)				
	0.0	4.5	SAME				
B-15-B (IN)	4.5	10.0	SAME (AS B-15)				

Drilling Method/Rig Type: GEOPROBE / AUGERS

BORING / SAMPLING LOG

Project	PRINCEVILLE DUMP	Boring ID	B-16
Project #	66U-0303-0001	Date	1/30/18
F&R Staff	J.P.	Time	1120
Drilling Co.	QUANTEX	GW Depth	~8.5 → 9.0' BLS
Driller	MIKE + MARK	Elevation	

	Depth From	Depth To	Classification	Depth From	Depth To	PID	Notes
B-16	0.0	5.5	SILTY CLAY V. FN SAND; ~20 → 40% FINES, MOIST, ~~FINES~~ ORG / BROWN				
	5.5	10.0	SILTY FN → MED SAND; ~10 → 20% FINES, V. MOIST → WET, ORG / BROWN				
B-16-A (OUT)	0.0	3.0	~~CLAYE~~ CLAYEY SANDY SILT; ~80 → 90% FINES, MOIST, BROWN / ORANGE				
	3.0	10.0	CLAYEY SILTY FN → MED SAND; 20 → 30% FINES, V. MOIST → WET, ORG / BROWN				
B-16-B (OUT)	0.0	2.5	SAME				
	2.5	10.0	SAME				
B-16-A (IN)	0.0	4.0	~~SANDY~~ SILTY FN → MED SAND; ~20 → 35% FINES V. MOIST → WET, ORG / BROWN				
	4.0	10.0	SAME				

+ SOME SURFACE WASTE 0 → 12" BLS IN VICINITY OF B-16-A. ADDITIONAL TIRES AROUND B-16-B.

Drilling Method/Rig Type: GEOPROBE / AUGERS

APPENDIX D
Laboratory Report and Certification

Froehling & Robertson, Inc.
Quality Assurance and Quality Control
Laboratory Data Review

Project Name	Princeville Dump
F&R Project No.	66U-03003-0002
Date of Review	February 8, 2018

1.0 Project Identification

Project Description	Surface Water and Sediments Sampling
Project Location	off Jenkins Road, Edgecombe County, NC
NCDEQ ID	NONCD0000297
PRLF Task Order(s)	297DP-1 and DP-2

2.0 Laboratory Information

Primary Laboratory Name	Con-Test (The laboratory states its N.C. certification status for all analytes tested, within the "Certifications" Section of each report.)
Location	39 Spruce Street, East Longmeadow, MA 01028
Con-test Lab Report IDs, and Sample Collection Dates	18A0479, 1/16/2018

3.0 Chain of Custody and Log-in Review(s)

COC Item	Yes	No	Comments
COC Signed by All Parties	X		
Correct Project No. on COC	X		
Cooler Temperature in Compliance	X		
Samples Received Within Holding Time	X		
Samples Received in Acceptable Condition	X		
QA/QC Samples Received in Acceptable Condition	X		

4.0 Laboratory Quality Control Review

QC Item	Yes	No	Comments
Samples Analyzed Outside of Holding Time		X	
Matrix Spike and Matrix Spike Duplicate Included in Analysis	X		
Method Blank Included in Analysis	X		
Surrogate Recovery Monitored	X		
Were Any Samples Reported as Rejected		X	
QC Qualifiers Identified	X		Reference definitions of qualifiers in the Glossary section of each Contest Laboratory Report. Qualification details are presented below, organized by Method:

According to the Con-Test Case Narrative presented in the individual laboratory reports identified above:

<u>EPA 6020A-B</u>:
All dilutions were performed as per standard operating procedure.

<u>The following individual issues were identified by the laboratory</u>:
L-07: Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria. 1,1,2,2-Tetrachloroethane, B195164-BSD1; 1,2-Dibromo-3-chloropropane (DBCP), B195170-BSD1; and, 1,4-Dioxane, B195164-BS1; 2,4-Dinitrophenol, B195090-BS1; Benzoic Acid, B195090-BS1; and, Hexachlorocyclopentadiene, B195090-BS1.

MS-07: Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated. Antimony, 18A0479-10[SD-1], B195113-MS1; and, Silver, 18A0479-01[SW-1], B195094-MS1.

MS-08: Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated. Hexachloroethane, B195090-MS1.

MS-09: Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated. Aniline, 18A0479-10[SD-1], B195090-MS1, B195090-MSD1; Benzidine, 18A0479-10[SD-1], B195090-MS1, B195090-MSD; Hexachlorocyclopentadiene, 18A0479-10[SD-1], B195090-MS1, B195090-MSD1; and, Pyridine; 18A0479-10[SD-1], B195090-MS1, B195090-MSD1.

MS-19: Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated. Iron, 18A0479-10[SD-1], B195113-MS1.

MS-22: Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria. 3-Nitroaniline, B195090-MS1.

MS-23: Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound. 3,3-Dichlorobenzidine, B195090-MS1; and, 4-Chloroaniline, B195090-MS1.

R-04: Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL). Antimony, 18A0479-01[SW-1], B195094-DUP1.

R-05: Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. 2,4-Dinitrophenol, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1; and, Benzidine, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1.

R-06: Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample. 3,3-Dichlorobenzidine, 18A0479-10[SD-1], B195090-MSD1; 4-Chloroaniline, 18A0479-10[SD-1], B195090-MSD1; Bis(2-chloroethyl)ether, 18A0479-10[SD-1], B195090-MS1, B195090-MSD1; and, Hexachlorocyclopentadiene, 18A0479-10[SD-1], B195090-MS1, B195090-MSD1.

V-04: Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated. 1,4-Dinitrophenol, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1; Benzidine, 18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1.

V-05: Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated. 4-Nitrophenol, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1; Benzidine, 18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1, B195090-BLK1, B195090-

BS1, B195090-BSD1, B195090-MS1, B195090-MSD1; Bis(2-Ethylhexyl)phthalate, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1; and, Hexachlorocyclopentadiene, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1.

V-16: Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. Pentachloronitrobenzene, 18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1, B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1.

V-19: Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated. Hexachlorocyclopentadiene, 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1.

V-34: Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated. 3,3-Dichlorobenzidine 18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1; and, 4-Chloroaniline, 18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1.

The Laboratory reports that all results are within defined quality control objectives unless otherwise qualified via QC Qualifiers above.

5.0 Data Review Summary

F&R has reviewed the analytical results for the samples collected and submitted to the laboratory for quality and validity. Quality control and assurance concerns have been discussed within the report, and accuracy and precision were determined by an evaluation of the laboratory control spike recovery and laboratory duplicate analysis, respectively.

F&R did not identify significant qualitative or quantitative limitations associated with the laboratory analytical results. Therefore, the laboratory data appears suitable for its intended use.

Reviewed By	John Palmer, P.G.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 25, 2018

John Palmer
Froehling & Robertson - Raleigh, NC
310 Hubert Street
Raleigh, NC 27603

Project Location: Princeville Dump
Client Job Number:
Project Number: 66U-0300-0001
Laboratory Work Order Number: 18A0479

Enclosed are results of analyses for samples received by the laboratory on January 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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Froehling & Robertson - Raleigh, NC
310 Hubert Street
Raleigh, NC 27603
ATTN: John Palmer

REPORT DATE: 1/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 66U-0300-0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Princeville Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-1	18A0479-01	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SW-2	18A0479-02	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SW-3	18A0479-03	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SW-4	18A0479-04	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	

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Froehling & Robertson - Raleigh, NC
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Raleigh, NC 27603
ATTN: John Palmer

REPORT DATE: 1/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 66U-0300-0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Princeville Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-5	18A0479-05	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SW-6	18A0479-06	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
Trip Blank 1	18A0479-07	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
Trip Blank 2	18A0479-08	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
Trip Blank 3	18A0479-09	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
SD-1	18A0479-10	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	

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310 Hubert Street
Raleigh, NC 27603
ATTN: John Palmer

REPORT DATE: 1/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 66U-0300-0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Princeville Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SD-2	18A0479-11	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SD-3	18A0479-12	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SD-4	18A0479-13	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	

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Froehling & Robertson - Raleigh, NC
310 Hubert Street
Raleigh, NC 27603
ATTN: John Palmer

REPORT DATE: 1/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 66U-0300-0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Princeville Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SD-5	18A0479-14	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
SD-6	18A0479-15	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	
Trip Blank 1	18A0479-16	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	
Trip Blank 2	18A0479-17	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	
SD-Dup	18A0479-18	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A-B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	

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ATTN: John Palmer

REPORT DATE: 1/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 66U-0300-0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18A0479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Princeville Dump

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SW-Dup	18A0479-19	Ground Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8260C SIM	
				SW-846 8270D	

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EXECUTIVE SUMMARY

Client ID: **Trip Blank 2** Lab ID: **18A0479-17**

No Results Detected

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

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EXECUTIVE SUMMARY

Client ID: **SW-1** Lab ID: **18A0479-01**

Analyte	Results/Qual		DL	RL	Units	Method
.beta.-Pinene	62				µg/L	SW-846 8270D
1S-.alpha.-Pinene	610				µg/L	SW-846 8270D
Cyclohexene, 1-methyl-4-(1-...	40				µg/L	SW-846 8270D
Antimony	0.51	R-04, J	0.19	2.0	µg/L	SW-846 6020A-B
Iron	85	J	27	100	µg/L	SW-846 6020A-B
Manganese	6.1		0.39	2.0	µg/L	SW-846 6020A-B
Sulfate	10		0.92	2.0	mg/L	ASTM D516-07

Client ID: **SW-2** Lab ID: **18A0479-02**

Analyte	Results/Qual		DL	RL	Units	Method
Toluene	0.40	J	0.17	1.0	µg/L	SW-846 8260B
Antimony	0.47	J	0.19	2.0	µg/L	SW-846 6020A-B
Arsenic	2.1		0.72	0.80	µg/L	SW-846 6020A-B
Chromium	2.0		1.0	2.0	µg/L	SW-846 6020A-B
Copper	3.9	J	0.72	10	µg/L	SW-846 6020A-B
Iron	6600		27	100	µg/L	SW-846 6020A-B
Lead	3.1		0.28	2.0	µg/L	SW-846 6020A-B
Manganese	110		0.39	2.0	µg/L	SW-846 6020A-B
Nickel	1.3	J	0.75	10	µg/L	SW-846 6020A-B
Zinc	31		9.8	20	µg/L	SW-846 6020A-B
Sulfate	15		0.92	2.0	mg/L	ASTM D516-07

Client ID: **SW-3** Lab ID: **18A0479-03**

Analyte	Results/Qual		DL	RL	Units	Method
Antimony	0.33	J	0.19	2.0	µg/L	SW-846 6020A-B
Arsenic	0.94		0.72	0.80	µg/L	SW-846 6020A-B
Copper	0.99	J	0.72	10	µg/L	SW-846 6020A-B
Iron	340		27	100	µg/L	SW-846 6020A-B
Lead	0.37	J	0.28	2.0	µg/L	SW-846 6020A-B
Manganese	18		0.39	2.0	µg/L	SW-846 6020A-B
Nitrate as N	0.13		0.035	0.050	mg/L	SM 21-22 4500 NO3 F
Sulfate	14		0.92	2.0	mg/L	ASTM D516-07

Client ID: **SW-4** Lab ID: **18A0479-04**

Analyte	Results/Qual		DL	RL	Units	Method
Antimony	0.22	J	0.19	2.0	µg/L	SW-846 6020A-B
Arsenic	0.81		0.72	0.80	µg/L	SW-846 6020A-B
Iron	1400		27	100	µg/L	SW-846 6020A-B
Manganese	130		0.39	2.0	µg/L	SW-846 6020A-B
Zinc	10	J	9.8	20	µg/L	SW-846 6020A-B
Nitrate as N	0.072		0.035	0.050	mg/L	SM 21-22 4500 NO3 F
Sulfate	6.1		0.92	2.0	mg/L	ASTM D516-07

Client ID: **SW-5** Lab ID: **18A0479-05**

Analyte	Results/Qual		DL	RL	Units	Method
Iron	580		27	100	µg/L	SW-846 6020A-B
Manganese	24		0.39	2.0	µg/L	SW-846 6020A-B
Nitrate as N	0.066		0.035	0.050	mg/L	SM 21-22 4500 NO3 F
Sulfate	8.4		0.92	2.0	mg/L	ASTM D516-07

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Client ID: **SW-6** Lab ID: **18A0479-06**

Analyte	Results/Qual		DL	RL	Units	Method
Iron	570		27	100	µg/L	SW-846 6020A-B
Manganese	43		0.39	2.0	µg/L	SW-846 6020A-B
Nitrate as N	1.2		0.035	0.050	mg/L	SM 21-22 4500 NO3 F
Sulfate	9.6		0.92	2.0	mg/L	ASTM D516-07

Client ID: **Trip Blank 1** Lab ID: **18A0479-07**

Analyte	Results/Qual		DL	RL	Units	Method
Ethylbenzene	0.17	J	0.13	1.0	µg/L	SW-846 8260B
m+p Xylene	0.48	J	0.26	2.0	µg/L	SW-846 8260B
o-Xylene	0.32	J	0.13	1.0	µg/L	SW-846 8260B

Client ID: **Trip Blank 2** Lab ID: **18A0479-08**

Analyte	Results/Qual		DL	RL	Units	Method
Ethylbenzene	0.15	J	0.13	1.0	µg/L	SW-846 8260B
m+p Xylene	0.47	J	0.26	2.0	µg/L	SW-846 8260B
o-Xylene	0.32	J	0.13	1.0	µg/L	SW-846 8260B

Client ID: **Trip Blank 3** Lab ID: **18A0479-09**

Analyte	Results/Qual		DL	RL	Units	Method
Ethylbenzene	0.17	J	0.13	1.0	µg/L	SW-846 8260B
m+p Xylene	0.46	J	0.26	2.0	µg/L	SW-846 8260B
o-Xylene	0.29	J	0.13	1.0	µg/L	SW-846 8260B

Client ID: **SD-1** Lab ID: **18A0479-10**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.023	J	0.023	0.097	mg/Kg dry	SW-846 8260B
Arsenic	0.42		0.035	0.22	mg/Kg dry	SW-846 6020A-B
Beryllium	0.072	J	0.021	0.29	mg/Kg dry	SW-846 6020A-B
Chromium	4.4	J	0.20	5.5	mg/Kg dry	SW-846 6020A-B
Copper	1.7	J	0.26	5.5	mg/Kg dry	SW-846 6020A-B
Iron	2200	MS-19	1.5	11	mg/Kg dry	SW-846 6020A-B
Lead	2.8		0.072	2.2	mg/Kg dry	SW-846 6020A-B
Manganese	7.2		0.17	5.7	mg/Kg dry	SW-846 6020A-B
Nickel	1.2	J	0.20	5.5	mg/Kg dry	SW-846 6020A-B
Silver	0.0093	J	0.0035	0.096	mg/Kg dry	SW-846 6020A-B
Thallium	0.032	J	0.0052	0.070	mg/Kg dry	SW-846 6020A-B
Zinc	4.0	J	0.40	11	mg/Kg dry	SW-846 6020A-B
% Solids	76.6				% Wt	SM 2540G
Nitrate as N	1.7	J	0.87	2.7	mg/Kg dry	SM 21-22 4500 NO3 F M
Sulfate	240	J	120	260	mg/Kg dry	ASTM D516-07 Modified

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Client ID: **SD-2** Lab ID: **18A0479-11**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.054	J	0.030	0.13	mg/Kg dry	SW-846 8260B
4-((1E)-3-Hydroxy-1-propeny...	0.43				mg/Kg dry	SW-846 8270D
eicosane	0.26				mg/Kg dry	SW-846 8270D
Hexadecenoic acid, Z-11-	0.30				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	0.48				mg/Kg dry	SW-846 8270D
Antimony	0.37	J	0.26	3.1	mg/Kg dry	SW-846 6020A-B
Arsenic	0.98		0.047	0.29	mg/Kg dry	SW-846 6020A-B
Beryllium	0.81		0.028	0.39	mg/Kg dry	SW-846 6020A-B
Cadmium	0.11	J	0.019	0.55	mg/Kg dry	SW-846 6020A-B
Chromium	9.7		0.26	7.2	mg/Kg dry	SW-846 6020A-B
Copper	6.7	J	0.34	7.2	mg/Kg dry	SW-846 6020A-B
Iron	4100		2.0	14	mg/Kg dry	SW-846 6020A-B
Lead	28		0.095	2.9	mg/Kg dry	SW-846 6020A-B
Manganese	56		0.23	7.5	mg/Kg dry	SW-846 6020A-B
Mercury	0.027	J	0.0042	0.042	mg/Kg dry	SW-846 7471B
Nickel	3.6	J	0.27	7.2	mg/Kg dry	SW-846 6020A-B
Selenium	0.40	J	0.081	1.2	mg/Kg dry	SW-846 6020A-B
Silver	0.033	J	0.0046	0.13	mg/Kg dry	SW-846 6020A-B
Thallium	0.12		0.0070	0.093	mg/Kg dry	SW-846 6020A-B
Zinc	31		0.53	14	mg/Kg dry	SW-846 6020A-B
% Solids	57.8				% Wt	SM 2540G
Nitrate as N	4.2		1.2	3.6	mg/Kg dry	SM 21-22 4500 NO3 F M

Client ID: **SD-3** Lab ID: **18A0479-12**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.037	J	0.024	0.10	mg/Kg dry	SW-846 8260B
1,15-Hexadecadiene	0.32				mg/Kg dry	SW-846 8270D
eicosane	0.69				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	0.57				mg/Kg dry	SW-846 8270D
Nonadecane, 9-methyl-	0.51				mg/Kg dry	SW-846 8270D
Oxirane, heptadecyl-	0.37				mg/Kg dry	SW-846 8270D
Squalene	0.41				mg/Kg dry	SW-846 8270D
Urs-12-ene, 3-methoxy-, (3....	0.29				mg/Kg dry	SW-846 8270D
Vitamin E	0.18				mg/Kg dry	SW-846 8270D
Arsenic	0.34		0.034	0.21	mg/Kg dry	SW-846 6020A-B
Beryllium	0.056	J	0.020	0.28	mg/Kg dry	SW-846 6020A-B
Chromium	1.8	J	0.19	5.3	mg/Kg dry	SW-846 6020A-B
Copper	0.57	J	0.25	5.3	mg/Kg dry	SW-846 6020A-B
Iron	960		1.5	11	mg/Kg dry	SW-846 6020A-B
Lead	1.7	J	0.070	2.1	mg/Kg dry	SW-846 6020A-B
Manganese	7.5		0.17	5.5	mg/Kg dry	SW-846 6020A-B
Nickel	0.45	J	0.20	5.3	mg/Kg dry	SW-846 6020A-B
Thallium	0.0084	J	0.0051	0.068	mg/Kg dry	SW-846 6020A-B
Zinc	2.8	J	0.39	10	mg/Kg dry	SW-846 6020A-B
% Solids	79.1				% Wt	SM 2540G
Nitrate as N	1.9	J	0.92	2.9	mg/Kg dry	SM 21-22 4500 NO3 F M

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Client ID: **SD-4** Lab ID: **18A0479-13**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.63	J	0.23	0.97	mg/Kg dry	SW-846 8260B
(Z)-14-Tricosenyl formate	2.6				mg/Kg dry	SW-846 8270D
4-((1E)-3-Hydroxy-1-propeny...	8.3				mg/Kg dry	SW-846 8270D
Furfural	2.9				mg/Kg dry	SW-846 8270D
Hentriacontane	11				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	3.2				mg/Kg dry	SW-846 8270D
p-Hydroxycinnamic acid	4.4				mg/Kg dry	SW-846 8270D
Picein	3.7				mg/Kg dry	SW-846 8270D
Tridecane, 1-iodo-	8.4				mg/Kg dry	SW-846 8270D
Arsenic	11		0.20	1.2	mg/Kg dry	SW-846 6020A-B
Beryllium	1.6	J	0.12	1.7	mg/Kg dry	SW-846 6020A-B
Cadmium	0.80	J	0.078	2.3	mg/Kg dry	SW-846 6020A-B
Chromium	18	J	1.1	31	mg/Kg dry	SW-846 6020A-B
Copper	29	J	1.4	31	mg/Kg dry	SW-846 6020A-B
Iron	18000		8.5	61	mg/Kg dry	SW-846 6020A-B
Lead	31		0.40	12	mg/Kg dry	SW-846 6020A-B
Manganese	120		0.98	32	mg/Kg dry	SW-846 6020A-B
Mercury	0.053	J	0.019	0.19	mg/Kg dry	SW-846 7471B
Nickel	9.1	J	1.1	31	mg/Kg dry	SW-846 6020A-B
Selenium	1.5	J	0.35	5.2	mg/Kg dry	SW-846 6020A-B
Silver	0.099	J	0.020	0.54	mg/Kg dry	SW-846 6020A-B
Thallium	0.29	J	0.029	0.39	mg/Kg dry	SW-846 6020A-B
Zinc	120		2.3	62	mg/Kg dry	SW-846 6020A-B
% Solids	13.3				% Wt	SM 2540G
Nitrate as N	5.8	J	5.5	17	mg/Kg dry	SM 21-22 4500 NO3 F M

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Client ID: **SD-5** Lab ID: **18A0479-14**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.20	J	0.060	0.26	mg/Kg dry	SW-846 8260B
p-Isopropyltoluene (p-Cymene)	0.0054		0.0020	0.0051	mg/Kg dry	SW-846 8260B
Toluene	0.0069		0.0020	0.0051	mg/Kg dry	SW-846 8260B
Benzoic Acid	1.3	J	0.51	2.8	mg/Kg dry	SW-846 8270D
.beta.-Sitosterol	4.0				mg/Kg dry	SW-846 8270D
16-Octadecenal	4.5				mg/Kg dry	SW-846 8270D
4-((1E)-3-Hydroxy-1-propeny...	3.3				mg/Kg dry	SW-846 8270D
7-Isopropenyl-1,4a-dimethyl...	2.0				mg/Kg dry	SW-846 8270D
Heneicosane	5.6				mg/Kg dry	SW-846 8270D
Heptadecane	7.4				mg/Kg dry	SW-846 8270D
Hexadecanal	0.92				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	3.2				mg/Kg dry	SW-846 8270D
Octadecanal	4.8				mg/Kg dry	SW-846 8270D
Vitamin E	2.0				mg/Kg dry	SW-846 8270D
Arsenic	3.2		0.076	0.46	mg/Kg dry	SW-846 6020A-B
Beryllium	0.59	J	0.044	0.63	mg/Kg dry	SW-846 6020A-B
Cadmium	0.23	J	0.030	0.89	mg/Kg dry	SW-846 6020A-B
Chromium	6.1	J	0.42	12	mg/Kg dry	SW-846 6020A-B
Copper	5.6	J	0.55	12	mg/Kg dry	SW-846 6020A-B
Iron	6800		3.2	23	mg/Kg dry	SW-846 6020A-B
Lead	21		0.15	4.7	mg/Kg dry	SW-846 6020A-B
Manganese	19		0.37	12	mg/Kg dry	SW-846 6020A-B
Mercury	0.021	J	0.0067	0.067	mg/Kg dry	SW-846 7471B
Nickel	2.9	J	0.43	12	mg/Kg dry	SW-846 6020A-B
Selenium	0.52	J	0.13	1.9	mg/Kg dry	SW-846 6020A-B
Silver	0.017	J	0.0075	0.21	mg/Kg dry	SW-846 6020A-B
Thallium	0.16		0.011	0.15	mg/Kg dry	SW-846 6020A-B
Zinc	27		0.86	23	mg/Kg dry	SW-846 6020A-B
% Solids	35.6				% Wt	SM 2540G
Nitrate as N	3.0	J	1.8	5.7	mg/Kg dry	SM 21-22 4500 NO3 F M

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Client ID: **SD-6** Lab ID: **18A0479-15**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.68		0.15	0.64	mg/Kg dry	SW-846 8260B
Toluene	0.012	J	0.0051	0.013	mg/Kg dry	SW-846 8260B
Benzoic Acid	46		3.6	20	mg/Kg dry	SW-846 8270D
2-Butanone, 4-hydroxy-	6.3				mg/Kg dry	SW-846 8270D
2-Furancarboxaldehyde, 5-(h...	11				mg/Kg dry	SW-846 8270D
2-Furanmethanol	2.2				mg/Kg dry	SW-846 8270D
3-Hydroxy-4-methoxybenzoic ...	7.1				mg/Kg dry	SW-846 8270D
4-((1E)-3-Hydroxy-1-propeny...	7.9				mg/Kg dry	SW-846 8270D
9-Octadecenoic acid, (E)-	2.3				mg/Kg dry	SW-846 8270D
Benzoic acid, 4-hydroxy-3,5...	2.4				mg/Kg dry	SW-846 8270D
Bicyclo[10.8.0]eicosane, cis-	2.3				mg/Kg dry	SW-846 8270D
eicosane	6.4				mg/Kg dry	SW-846 8270D
Furfural	6.9				mg/Kg dry	SW-846 8270D
Hentriacontane	6.1				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	3.1				mg/Kg dry	SW-846 8270D
Pentanoic acid, 4-oxo-	4.3				mg/Kg dry	SW-846 8270D
Stigmasterol, 22,23-dihydro-	2.8				mg/Kg dry	SW-846 8270D
vanillin	3.3				mg/Kg dry	SW-846 8270D
Arsenic	4.1		0.13	0.81	mg/Kg dry	SW-846 6020A-B
Beryllium	1.5		0.078	1.1	mg/Kg dry	SW-846 6020A-B
Cadmium	0.41	J	0.053	1.6	mg/Kg dry	SW-846 6020A-B
Chromium	13	J	0.74	21	mg/Kg dry	SW-846 6020A-B
Copper	8.0	J	0.98	21	mg/Kg dry	SW-846 6020A-B
Iron	15000		5.8	42	mg/Kg dry	SW-846 6020A-B
Lead	28		0.27	8.3	mg/Kg dry	SW-846 6020A-B
Manganese	44		0.66	22	mg/Kg dry	SW-846 6020A-B
Mercury	0.046	J	0.013	0.13	mg/Kg dry	SW-846 7471B
Nickel	5.0	J	0.77	21	mg/Kg dry	SW-846 6020A-B
Selenium	1.1	J	0.23	3.4	mg/Kg dry	SW-846 6020A-B
Silver	0.045	J	0.013	0.37	mg/Kg dry	SW-846 6020A-B
Thallium	0.24	J	0.020	0.27	mg/Kg dry	SW-846 6020A-B
Zinc	48		1.5	41	mg/Kg dry	SW-846 6020A-B
% Solids	20.2				% Wt	SM 2540G
Nitrate as N	8.9	J	3.7	11	mg/Kg dry	SM 21-22 4500 NO3 F M
Sulfate	530	J	440	950	mg/Kg dry	ASTM D516-07 Modified

Client ID: **Trip Blank 1** Lab ID: **18A0479-16**

Analyte	Results/Qual		DL	RL	Units	Method
Cyclobutane, methyl-	0.0093				mg/Kg wet	SW-846 8260C

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Client ID: **SD-Dup** Lab ID: **18A0479-18**

Analyte	Results/Qual		DL	RL	Units	Method
Acetone	0.89	J	0.27	1.2	mg/Kg dry	SW-846 8260B
2-Propenoic acid, 3-(4-hydr...	3.6				mg/Kg dry	SW-846 8270D
4-((1E)-3-Hydroxy-1-propeny...	7.4				mg/Kg dry	SW-846 8270D
n-Hexadecanoic acid	5.0				mg/Kg dry	SW-846 8270D
Nonacosane	9.5				mg/Kg dry	SW-846 8270D
Octacosane	6.7				mg/Kg dry	SW-846 8270D
Octadecanal	3.8				mg/Kg dry	SW-846 8270D
Oxirane, hexadecyl-	3.7				mg/Kg dry	SW-846 8270D
Phenanthrene, 3,9-bis(1,1-d...	4.5				mg/Kg dry	SW-846 8270D
Picein	4.4				mg/Kg dry	SW-846 8270D
Arsenic	18		0.21	1.3	mg/Kg dry	SW-846 6020A-B
Beryllium	2.0		0.12	1.7	mg/Kg dry	SW-846 6020A-B
Cadmium	1.0	J	0.083	2.5	mg/Kg dry	SW-846 6020A-B
Chromium	21	J	1.2	32	mg/Kg dry	SW-846 6020A-B
Copper	29	J	1.5	32	mg/Kg dry	SW-846 6020A-B
Iron	43000		8.9	65	mg/Kg dry	SW-846 6020A-B
Lead	34		0.42	13	mg/Kg dry	SW-846 6020A-B
Manganese	130		1.0	34	mg/Kg dry	SW-846 6020A-B
Mercury	0.068	J	0.020	0.20	mg/Kg dry	SW-846 7471B
Nickel	13	J	1.2	32	mg/Kg dry	SW-846 6020A-B
Selenium	1.6	J	0.36	5.3	mg/Kg dry	SW-846 6020A-B
Silver	0.13	J	0.021	0.57	mg/Kg dry	SW-846 6020A-B
Thallium	0.38	J	0.031	0.41	mg/Kg dry	SW-846 6020A-B
Zinc	190		2.4	64	mg/Kg dry	SW-846 6020A-B
% Solids	13.0				% Wt	SM 2540G
Nitrate as N	20		6.0	19	mg/Kg dry	SM 21-22 4500 NO3 F M

Client ID: **SW-Dup** Lab ID: **18A0479-19**

Analyte	Results/Qual		DL	RL	Units	Method
p-Isopropyltoluene (p-Cymene)	2.1		0.15	2.0	µg/L	SW-846 8260B
Arsenic	1.2		0.72	0.80	µg/L	SW-846 6020A-B
Copper	0.77	J	0.72	10	µg/L	SW-846 6020A-B
Iron	6300		27	100	µg/L	SW-846 6020A-B
Lead	0.63	J	0.28	2.0	µg/L	SW-846 6020A-B
Manganese	220		0.39	2.0	µg/L	SW-846 6020A-B
Zinc	13	J	9.8	20	µg/L	SW-846 6020A-B
Nitrate as N	0.079		0.035	0.050	mg/L	SM 21-22 4500 NO3 F
Sulfate	11		0.92	2.0	mg/L	ASTM D516-07

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, all dilutions were performed as per standard operating procedure.

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SW-846 6020A-B

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
18A0479-10[SD-1], B195113-MS1

Silver
18A0479-01[SW-1], B195094-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Iron
18A0479-10[SD-1], B195113-MS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Antimony
18A0479-01[SW-1], B195094-DUP1

SW-846 8260B

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,2,2-Tetrachloroethane
B195164-BSD1

1,2-Dibromo-3-chloropropane (DB
B195170-BSD1

1,4-Dioxane
B195164-BS1

SW-846 8270D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B195090-BS1

Benzoic Acid
B195090-BS1

Hexachlorocyclopentadiene
B195090-BS1

MS-08

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Hexachloroethane
B195090-MS1

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MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Aniline
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

Benzidine
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

Hexachlorocyclopentadiene
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

Pyridine
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

3-Nitroaniline
B195090-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B195090-MS1

4-Chloroaniline
B195090-MS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1

Benzidine
18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
18A0479-10[SD-1], B195090-MSD1

4-Chloroaniline
18A0479-10[SD-1], B195090-MSD1

Bis(2-chloroethyl)ether
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

Hexachlorocyclopentadiene
18A0479-10[SD-1], B195090-MS1, B195090-MSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

Benzidine
18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Nitrophenol

18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

Benzidine

18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1, B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

Bis(2-Ethylhexyl)phthalate

18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

Hexachlorocyclopentadiene

18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1, B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

18A0479-10[SD-1], 18A0479-11[SD-2], 18A0479-12[SD-3], 18A0479-13[SD-4], 18A0479-14[SD-5], 18A0479-15[SD-6], 18A0479-18[SD-Dup], B195090-BLK1, B195090-BS1, B195090-BSD1, B195090-MS1, B195090-MSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1

4-Chloroaniline

18A0479-01[SW-1], 18A0479-02[SW-2], 18A0479-03[SW-3], 18A0479-04[SW-4], 18A0479-05[SW-5], 18A0479-06[SW-6], 18A0479-19[SW-Dup], B195084-BLK1, B195084-BS1, B195084-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		1/19/18 18:20
Toluene-d8	89.2	70-130		1/19/18 18:20
4-Bromofluorobenzene	80.4	70-130		1/19/18 18:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 18:20	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 18:20	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 4:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	65.0	40-160		1/20/18 4:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-1 | Sampled: 1/16/2018 12:05

Sample ID: 18A0479-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:04	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	32.8	15-110		1/19/18 14:04
Phenol-d6	22.5	15-110		1/19/18 14:04
Nitrobenzene-d5	57.2	30-130		1/19/18 14:04
2-Fluorobiphenyl	58.1	30-130		1/19/18 14:04
2,4,6-Tribromophenol	65.8	15-110		1/19/18 14:04
p-Terphenyl-d14	59.6	30-130		1/19/18 14:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-1
Sampled: 1/16/2018 12:05
Sample ID: 18A0479-01
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
.beta.-Pinene	62	µg/L	1328810	3.071	1	000127-91-3	96	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
1S-.alpha.-Pinene	610	µg/L	13093600	2.865	1	007785-26-4	96	SW-846 8270D	1/17/18	1/19/18 14:04	BGL
Cyclohexene, 1-methyl-4-(1-...	40	µg/L	859138	3.277	1	005989-54-8	95	SW-846 8270D	1/17/18	1/19/18 14:04	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-1
Sampled: 1/16/2018 12:05

Sample ID: 18A0479-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.51	2.0	0.19	µg/L	2	R-04, J	SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Arsenic	ND	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:53	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Copper	ND	10	0.72	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Iron	85	100	27	µg/L	2	J	SW-846 6020A-B	1/18/18	1/23/18 11:58	MJH
Lead	ND	2.0	0.28	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Manganese	6.1	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:53	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:05	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Silver	ND	1.0	0.15	µg/L	2	MS-07	SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH
Zinc	ND	20	9.8	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:41	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-1
Sampled: 1/16/2018 12:05

Sample ID: 18A0479-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	ND	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/22/18	1/22/18 11:48	MMH
Sulfate	10	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Toluene	0.40	1.0	0.17	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 18:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		1/19/18 18:44
Toluene-d8	90.8	70-130		1/19/18 18:44
4-Bromofluorobenzene	80.5	70-130		1/19/18 18:44

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 18:44	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 18:44	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 4:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	75.8	40-160		1/20/18 4:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-2
Sampled: 1/16/2018 12:25
Sample ID: 18A0479-02
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	33.9	15-110		1/19/18 14:27
Phenol-d6	24.1	15-110		1/19/18 14:27
Nitrobenzene-d5	57.7	30-130		1/19/18 14:27
2-Fluorobiphenyl	56.9	30-130		1/19/18 14:27
2,4,6-Tribromophenol	60.2	15-110		1/19/18 14:27
p-Terphenyl-d14	63.2	30-130		1/19/18 14:27

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-2
Sampled: 1/16/2018 12:25

Sample ID: 18A0479-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 14:27	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-2
Sampled: 1/16/2018 12:25

Sample ID: 18A0479-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.47	2.0	0.19	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Arsenic	2.1	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:57	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Chromium	2.0	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Copper	3.9	10	0.72	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Iron	6600	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Lead	3.1	2.0	0.28	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Manganese	110	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:57	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:07	EJB
Nickel	1.3	10	0.75	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH
Zinc	31	20	9.8	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:44	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-2
Sampled: 1/16/2018 12:25

Sample ID: 18A0479-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	ND	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	15	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-3 | Sampled: 1/16/2018 11:25

Sample ID: 18A0479-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		1/19/18 19:07
Toluene-d8	91.4	70-130		1/19/18 19:07
4-Bromofluorobenzene	79.8	70-130		1/19/18 19:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 19:07	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 19:07	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 5:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	75.7	40-160		1/20/18 5:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-3 | Sampled: 1/16/2018 11:25

Sample ID: 18A0479-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 14:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	34.8	15-110		1/19/18 14:48
Phenol-d6	24.5	15-110		1/19/18 14:48
Nitrobenzene-d5	55.9	30-130		1/19/18 14:48
2-Fluorobiphenyl	60.4	30-130		1/19/18 14:48
2,4,6-Tribromophenol	62.1	15-110		1/19/18 14:48
p-Terphenyl-d14	62.0	30-130		1/19/18 14:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 14:48	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-3
Sampled: 1/16/2018 11:25
Sample ID: 18A0479-03
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.33	2.0	0.19	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Arsenic	0.94	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:16	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Copper	0.99	10	0.72	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Iron	340	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Lead	0.37	2.0	0.28	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Manganese	18	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:16	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:03	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH
Zinc	ND	20	9.8	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:48	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-3
Sampled: 1/16/2018 11:25

Sample ID: 18A0479-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	0.13	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	14	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		1/19/18 19:30
Toluene-d8	93.1	70-130		1/19/18 19:30
4-Bromofluorobenzene	79.6	70-130		1/19/18 19:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 19:30	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 19:30	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-4
Sampled: 1/16/2018 13:10

Sample ID: 18A0479-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 5:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	69.9	40-160		1/20/18 5:30

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-4 | Sampled: 1/16/2018 13:10

Sample ID: 18A0479-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	34.4	15-110		1/19/18 15:11
Phenol-d6	24.8	15-110		1/19/18 15:11
Nitrobenzene-d5	59.7	30-130		1/19/18 15:11
2-Fluorobiphenyl	59.8	30-130		1/19/18 15:11
2,4,6-Tribromophenol	62.7	15-110		1/19/18 15:11
p-Terphenyl-d14	64.8	30-130		1/19/18 15:11

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 15:11	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-4
Sampled: 1/16/2018 13:10
Sample ID: 18A0479-04
Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.22	2.0	0.19	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Arsenic	0.81	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:50	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Copper	ND	10	0.72	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Iron	1400	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Lead	ND	2.0	0.28	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Manganese	130	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 14:50	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:08	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH
Zinc	10	20	9.8	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 14:58	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-4
Sampled: 1/16/2018 13:10

Sample ID: 18A0479-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	0.072	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	6.1	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 19:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		1/19/18 19:53
Toluene-d8	89.2	70-130		1/19/18 19:53
4-Bromofluorobenzene	81.2	70-130		1/19/18 19:53

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 19:53	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 19:53	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 5:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	79.0	40-160		1/20/18 5:57

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	36.6	15-110		1/19/18 15:34
Phenol-d6	25.0	15-110		1/19/18 15:34
Nitrobenzene-d5	62.1	30-130		1/19/18 15:34
2-Fluorobiphenyl	62.8	30-130		1/19/18 15:34
2,4,6-Tribromophenol	67.5	15-110		1/19/18 15:34
p-Terphenyl-d14	68.8	30-130		1/19/18 15:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-5
Sampled: 1/16/2018 14:05
Sample ID: 18A0479-05
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 15:34	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-5
Sampled: 1/16/2018 14:05

Sample ID: 18A0479-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Arsenic	ND	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:20	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Copper	ND	10	0.72	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Iron	580	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Lead	ND	2.0	0.28	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Manganese	24	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:20	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:10	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH
Zinc	ND	20	9.8	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:02	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-5
Sampled: 1/16/2018 14:05

Sample ID: 18A0479-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	0.066	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	8.4	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		1/19/18 20:17
Toluene-d8	90.6	70-130		1/19/18 20:17
4-Bromofluorobenzene	80.5	70-130		1/19/18 20:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 20:17	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 20:17	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-6
Sampled: 1/16/2018 14:45

Sample ID: 18A0479-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 6:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	75.4	40-160		1/20/18 6:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 15:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	33.6	15-110		1/19/18 15:56
Phenol-d6	22.7	15-110		1/19/18 15:56
Nitrobenzene-d5	54.0	30-130		1/19/18 15:56
2-Fluorobiphenyl	57.9	30-130		1/19/18 15:56
2,4,6-Tribromophenol	64.4	15-110		1/19/18 15:56
p-Terphenyl-d14	62.5	30-130		1/19/18 15:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-6
Sampled: 1/16/2018 14:45
Sample ID: 18A0479-06
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 15:56	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-6
Sampled: 1/16/2018 14:45

Sample ID: 18A0479-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Arsenic	ND	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:23	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Copper	ND	10	0.72	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Iron	570	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Lead	ND	2.0	0.28	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Manganese	43	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:23	WSD
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:11	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH
Zinc	ND	20	9.8	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:05	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-6
Sampled: 1/16/2018 14:45

Sample ID: 18A0479-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	1.2	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	9.6	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 1 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-07

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 1
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-07
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Ethylbenzene	0.17	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 13:59	EEH
m+p Xylene	0.48	2.0	0.26	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 13:59	EEH
o-Xylene	0.32	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 13:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		1/19/18 13:59
Toluene-d8	92.0	70-130		1/19/18 13:59
4-Bromofluorobenzene	80.5	70-130		1/19/18 13:59

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 1
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-07
Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 13:59	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 13:59	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 2 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 2
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Ethylbenzene	0.15	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:23	EEH
m+p Xylene	0.47	2.0	0.26	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:23	EEH
o-Xylene	0.32	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		1/19/18 14:23
Toluene-d8	91.1	70-130		1/19/18 14:23
4-Bromofluorobenzene	78.3	70-130		1/19/18 14:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 2
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-08
Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 14:23	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 14:23	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 3 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-09

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 3 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-09

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Ethylbenzene	0.17	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 14:47	EEH
m+p Xylene	0.46	2.0	0.26	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:47	EEH
o-Xylene	0.29	1.0	0.13	µg/L	1	J	SW-846 8260B	1/19/18	1/19/18 14:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		1/19/18 14:47
Toluene-d8	90.8	70-130		1/19/18 14:47
4-Bromofluorobenzene	79.7	70-130		1/19/18 14:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 3
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-09

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 14:47	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 14:47	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.023	0.097	0.023	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Acrylonitrile	ND	0.0058	0.0024	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Bromobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Bromochloromethane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Bromoform	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Bromomethane	ND	0.0097	0.0041	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
tert-Butyl Alcohol (TBA)	ND	0.039	0.020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
n-Butylbenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
sec-Butylbenzene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
tert-Butylbenzene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00097	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Carbon Disulfide	ND	0.0058	0.0042	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Chlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Chlorodibromomethane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Chloroethane	ND	0.019	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Chloromethane	ND	0.0097	0.0062	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
2-Chlorotoluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
4-Chlorotoluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	0.00097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Dibromomethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
trans-1,4-Dichloro-2-butene	ND	0.0039	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1-Dichloroethane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,3-Dichloropropane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
2,2-Dichloropropane	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1-Dichloropropene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
cis-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
trans-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Diethyl Ether	ND	0.019	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00097	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,4-Dioxane	ND	0.097	0.056	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Hexachlorobutadiene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Methylene Chloride	ND	0.019	0.0069	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Naphthalene	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
n-Propylbenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Tetrahydrofuran	ND	0.0097	0.0021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,3,5-Trichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Trichloroethylene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2,3-Trichloropropane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0097	0.00087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,2,4-Trimethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
1,3,5-Trimethylbenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
Vinyl Chloride	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.5	70-130		1/19/18 17:14
Toluene-d8	99.3	70-130		1/19/18 17:14
4-Bromofluorobenzene	103	70-130		1/19/18 17:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 17:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-1
Sampled: 1/16/2018 12:10

Sample ID: 18A0479-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0019	0.0017	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 1:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	100	40-160		1/20/18 1:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Acenaphthylene	ND	0.22	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Acetophenone	ND	0.44	0.087	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Aniline	ND	0.44	0.13	mg/Kg dry	1	MS-09	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Anthracene	ND	0.22	0.064	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzidine	ND	0.86	0.55	mg/Kg dry	1	MS-09, R-05, V-05	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzo(a)pyrene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzo(g,h,i)perylene	ND	0.22	0.098	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzo(k)fluoranthene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Bis(2-chloroethoxy)methane	ND	0.44	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Bis(2-chloroethyl)ether	ND	0.44	0.087	mg/Kg dry	1	R-06	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Bis(2-chloroisopropyl)ether	ND	0.44	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.44	0.17	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Bromophenylphenylether	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Butylbenzylphthalate	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Carbazole	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Chloroaniline	ND	0.86	0.10	mg/Kg dry	1	R-06	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Chloro-3-methylphenol	ND	0.86	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Chloronaphthalene	ND	0.44	0.084	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Chlorophenol	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Chlorophenylphenylether	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Chrysene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Dibenzofuran	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Di-n-butylphthalate	ND	0.44	0.097	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,2-Dichlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,3-Dichlorobenzene	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,4-Dichlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
3,3-Dichlorobenzidine	ND	0.22	0.068	mg/Kg dry	1	R-06	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4-Dichlorophenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Diethylphthalate	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4-Dimethylphenol	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Dimethylphthalate	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4,6-Dinitro-2-methylphenol	ND	0.44	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4-Dinitrophenol	ND	0.86	0.25	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4-Dinitrotoluene	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,6-Dinitrotoluene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Di-n-octylphthalate	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Fluoranthene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Hexachlorobutadiene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Hexachlorocyclopentadiene	ND	0.44	0.094	mg/Kg dry	1	MS-09, R-06, V-05, V-19	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Hexachloroethane	ND	0.44	0.089	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Isophorone	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1-Methylnaphthalene	ND	0.22	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Methylnaphthalene	ND	0.22	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Methylphenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
3/4-Methylphenol	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Nitroaniline	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
3-Nitroaniline	ND	0.44	0.064	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Nitroaniline	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Nitrobenzene	ND	0.44	0.084	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2-Nitrophenol	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
4-Nitrophenol	ND	0.86	0.097	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
N-Nitrosodimethylamine	ND	0.44	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
N-Nitrosodiphenylamine	ND	0.44	0.091	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
N-Nitrosodi-n-propylamine	ND	0.44	0.091	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Pentachloronitrobenzene	ND	0.44	0.11	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Pentachlorophenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Phenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Pyrene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
Pyridine	ND	0.44	0.072	mg/Kg dry	1	MS-09	SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
1,2,4-Trichlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4,5-Trichlorophenol	ND	0.44	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL
2,4,6-Trichlorophenol	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.0	30-130		1/18/18 16:02
Phenol-d6	64.6	30-130		1/18/18 16:02
Nitrobenzene-d5	59.9	30-130		1/18/18 16:02
2-Fluorobiphenyl	61.3	30-130		1/18/18 16:02
2,4,6-Tribromophenol	58.1	30-130		1/18/18 16:02
p-Terphenyl-d14	62.2	30-130		1/18/18 16:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-1
Sampled: 1/16/2018 12:10
Sample ID: 18A0479-10
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	1/18/18	1/18/18 16:02	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-1
Sampled: 1/16/2018 12:10

Sample ID: 18A0479-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.4	0.19	mg/Kg dry	5	MS-07	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Arsenic	0.42	0.22	0.035	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:38	MJH
Beryllium	0.072	0.29	0.021	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:38	MJH
Chromium	4.4	5.5	0.20	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Copper	1.7	5.5	0.26	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Iron	2200	11	1.5	mg/Kg dry	5	MS-19	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Lead	2.8	2.2	0.072	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Manganese	7.2	5.7	0.17	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Mercury	ND	0.031	0.0031	mg/Kg dry	1		SW-846 7471B	1/22/18	1/22/18 14:12	EJB
Nickel	1.2	5.5	0.20	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Selenium	ND	0.90	0.061	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:38	MJH
Silver	0.0093	0.096	0.0035	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Thallium	0.032	0.070	0.0052	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH
Zinc	4.0	11	0.40	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:38	MJH
Cadmium	ND	0.42	0.014	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:51	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-1
Sampled: 1/16/2018 12:10

Sample ID: 18A0479-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	37	36	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	1.7	2.7	0.87	mg/Kg dry	1	J	SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	240	260	120	mg/Kg dry	1	J	ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	76.6			% Wt	1		SM 2540G	1/18/18	1/19/18 7:28	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.054	0.13	0.030	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Acrylonitrile	ND	0.0077	0.0032	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Benzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Bromomethane	ND	0.013	0.0054	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
2-Butanone (MEK)	ND	0.051	0.023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.027	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
n-Butylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Carbon Disulfide	ND	0.0077	0.0055	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Chlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Chlorodibromomethane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Chloroform	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Chloromethane	ND	0.013	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Dibromomethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	0.0027	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1-Dichloroethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,3-Dichloropropane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Diethyl Ether	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-2
Sampled: 1/16/2018 12:30

Sample ID: 18A0479-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,4-Dioxane	ND	0.13	0.074	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Methylene Chloride	ND	0.026	0.0091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0098	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Naphthalene	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
n-Propylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Tetrahydrofuran	ND	0.013	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Trichloroethylene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF
o-Xylene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 19:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.3	70-130		1/19/18 19:33
Toluene-d8	100	70-130		1/19/18 19:33
4-Bromofluorobenzene	101	70-130		1/19/18 19:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 19:33	MFF

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Work Order: 18A0479
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Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0032	0.0027	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 1:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	140	40-160		1/20/18 1:29

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.29	0.088	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Acenaphthylene	ND	0.29	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Acetophenone	ND	0.59	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Aniline	ND	0.59	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Anthracene	ND	0.29	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzidine	ND	1.1	0.74	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzo(a)anthracene	ND	0.29	0.078	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzo(a)pyrene	ND	0.29	0.092	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzo(b)fluoranthene	ND	0.29	0.083	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzo(g,h,i)perylene	ND	0.29	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzo(k)fluoranthene	ND	0.29	0.092	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Benzoic Acid	ND	1.7	0.31	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Bis(2-chloroethoxy)methane	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Bis(2-chloroethyl)ether	ND	0.59	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Bis(2-chloroisopropyl)ether	ND	0.59	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.59	0.23	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Bromophenylphenylether	ND	0.59	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Butylbenzylphthalate	ND	0.59	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Carbazole	ND	0.29	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Chloroaniline	ND	1.1	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Chloro-3-methylphenol	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Chloronaphthalene	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Chlorophenol	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Chlorophenylphenylether	ND	0.59	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Chrysene	ND	0.29	0.092	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Dibenz(a,h)anthracene	ND	0.29	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Dibenzofuran	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Di-n-butylphthalate	ND	0.59	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,2-Dichlorobenzene	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,3-Dichlorobenzene	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,4-Dichlorobenzene	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
3,3-Dichlorobenzidine	ND	0.29	0.090	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4-Dichlorophenol	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Diethylphthalate	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4-Dimethylphenol	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Dimethylphthalate	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4,6-Dinitro-2-methylphenol	ND	0.59	0.56	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4-Dinitrophenol	ND	1.1	0.34	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4-Dinitrotoluene	ND	0.59	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,6-Dinitrotoluene	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Di-n-octylphthalate	ND	0.59	0.31	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.59	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Fluoranthene	ND	0.29	0.097	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Fluorene	ND	0.29	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Hexachlorobutadiene	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Hexachlorocyclopentadiene	ND	0.59	0.12	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Hexachloroethane	ND	0.59	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.29	0.21	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Isophorone	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1-Methylnaphthalene	ND	0.29	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Methylnaphthalene	ND	0.29	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Methylphenol	ND	0.59	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
3/4-Methylphenol	ND	0.59	0.19	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Naphthalene	ND	0.29	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Nitroaniline	ND	0.59	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
3-Nitroaniline	ND	0.59	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Nitroaniline	ND	0.59	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Nitrobenzene	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2-Nitrophenol	ND	0.59	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
4-Nitrophenol	ND	1.1	0.13	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
N-Nitrosodimethylamine	ND	0.59	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
N-Nitrosodiphenylamine	ND	0.59	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
N-Nitrosodi-n-propylamine	ND	0.59	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Pentachloronitrobenzene	ND	0.59	0.14	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Pentachlorophenol	ND	0.59	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Phenanthrene	ND	0.29	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Phenol	ND	0.59	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Pyrene	ND	0.29	0.097	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Pyridine	ND	0.59	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
1,2,4-Trichlorobenzene	ND	0.59	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4,5-Trichlorophenol	ND	0.59	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL
2,4,6-Trichlorophenol	ND	0.59	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.8	30-130		1/18/18 16:27
Phenol-d6	56.0	30-130		1/18/18 16:27
Nitrobenzene-d5	52.5	30-130		1/18/18 16:27
2-Fluorobiphenyl	53.6	30-130		1/18/18 16:27
2,4,6-Tribromophenol	49.0	30-130		1/18/18 16:27
p-Terphenyl-d14	54.1	30-130		1/18/18 16:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-2
Sampled: 1/16/2018 12:30
Sample ID: 18A0479-11
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
4-((1E)-3-Hydroxy-1-propeny...	0.43	mg/Kg dry	126443	5.976	1	1000297-95-5	98	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
eicosane	0.26	mg/Kg dry	95550	11.236	1	000112-95-8	91	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
Hexadecenoic acid, Z-11-	0.30	mg/Kg dry	88211	6.482	1	002416-20-8	96	SW-846 8270D	1/18/18	1/18/18 16:27	BGL
n-Hexadecanoic acid	0.48	mg/Kg dry	140589	6.507	1	000057-10-3	95	SW-846 8270D	1/18/18	1/18/18 16:27	BGL

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-2
Sampled: 1/16/2018 12:30

Sample ID: 18A0479-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.37	3.1	0.26	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Arsenic	0.98	0.29	0.047	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:37	MJH
Beryllium	0.81	0.39	0.028	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:37	MJH
Chromium	9.7	7.2	0.26	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Copper	6.7	7.2	0.34	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Iron	4100	14	2.0	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Lead	28	2.9	0.095	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Manganese	56	7.5	0.23	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Mercury	0.027	0.042	0.0042	mg/Kg dry	1	J	SW-846 7471B	1/22/18	1/22/18 14:13	EJB
Nickel	3.6	7.2	0.27	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Selenium	0.40	1.2	0.081	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:37	MJH
Silver	0.033	0.13	0.0046	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Thallium	0.12	0.093	0.0070	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH
Zinc	31	14	0.53	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 9:16	MJH
Cadmium	0.11	0.55	0.019	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 9:54	MJH

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-2
Sampled: 1/16/2018 12:30

Sample ID: 18A0479-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	48	48	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	4.2	3.6	1.2	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	ND	340	160	mg/Kg dry	1		ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	57.8			% Wt	1		SM 2540G	1/18/18	1/19/18 7:28	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-3
Sampled: 1/16/2018 11:30
Sample ID: 18A0479-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.037	0.10	0.024	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Acrylonitrile	ND	0.0061	0.0025	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Bromomethane	ND	0.010	0.0042	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
tert-Butylbenzene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Carbon Disulfide	ND	0.0061	0.0043	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Chloroform	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Chloromethane	ND	0.010	0.0065	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
2-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
4-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Dibromomethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	0.0021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,3-Dichloropropane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
2,2-Dichloropropane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1-Dichloropropene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Diethyl Ether	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-3
Sampled: 1/16/2018 11:30
Sample ID: 18A0479-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Hexachlorobutadiene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Naphthalene	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
n-Propylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Tetrahydrofuran	ND	0.010	0.0022	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,3,5-Trichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00091	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 17:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.1	70-130		1/19/18 17:42
Toluene-d8	99.5	70-130		1/19/18 17:42
4-Bromofluorobenzene	103	70-130		1/19/18 17:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-3
Sampled: 1/16/2018 11:30
Sample ID: 18A0479-12
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 17:42	MFF

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Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0020	0.0017	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 1:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	103	40-160		1/20/18 1:56

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Sample ID: 18A0479-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Acetophenone	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Aniline	ND	0.43	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzidine	ND	0.83	0.54	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzo(a)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzo(a)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzo(b)fluoranthene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzo(g,h,i)perylene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Benzoic Acid	ND	1.3	0.23	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Bis(2-chloroethoxy)methane	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Bis(2-chloroethyl)ether	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	0.092	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	0.17	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Bromophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Butylbenzylphthalate	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Carbazole	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Chloroaniline	ND	0.83	0.099	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Chloro-3-methylphenol	ND	0.83	0.092	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Chloronaphthalene	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Chlorophenol	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Chlorophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Chrysene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Dibenzofuran	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Di-n-butylphthalate	ND	0.43	0.094	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,2-Dichlorobenzene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,3-Dichlorobenzene	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,4-Dichlorobenzene	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
3,3-Dichlorobenzidine	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4-Dichlorophenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Diethylphthalate	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4-Dimethylphenol	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Dimethylphthalate	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4-Dinitrophenol	ND	0.83	0.25	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4-Dinitrotoluene	ND	0.43	0.070	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,6-Dinitrotoluene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Di-n-octylphthalate	ND	0.43	0.22	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.43	0.070	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Fluoranthene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Fluorene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-3
Sampled: 1/16/2018 11:30
Sample ID: 18A0479-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Hexachlorobutadiene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Hexachlorocyclopentadiene	ND	0.43	0.091	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Hexachloroethane	ND	0.43	0.086	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Isophorone	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1-Methylnaphthalene	ND	0.21	0.082	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Methylnaphthalene	ND	0.21	0.075	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Methylphenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
3/4-Methylphenol	ND	0.43	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
3-Nitroaniline	ND	0.43	0.062	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Nitrobenzene	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2-Nitrophenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
4-Nitrophenol	ND	0.83	0.094	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
N-Nitrosodimethylamine	ND	0.43	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
N-Nitrosodiphenylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
N-Nitrosodi-n-propylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Pentachloronitrobenzene	ND	0.43	0.10	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Pentachlorophenol	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Phenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Pyrene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Pyridine	ND	0.43	0.070	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
1,2,4-Trichlorobenzene	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4,5-Trichlorophenol	ND	0.43	0.097	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL
2,4,6-Trichlorophenol	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 16:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.3	30-130		1/18/18 16:52
Phenol-d6	59.1	30-130		1/18/18 16:52
Nitrobenzene-d5	56.9	30-130		1/18/18 16:52
2-Fluorobiphenyl	56.6	30-130		1/18/18 16:52
2,4,6-Tribromophenol	54.8	30-130		1/18/18 16:52
p-Terphenyl-d14	60.8	30-130		1/18/18 16:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-3
Sampled: 1/16/2018 11:30

Sample ID: 18A0479-12

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1,15-Hexadecadiene	0.32	mg/Kg dry	167202	13.54	1	021964-51-2	86	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
eicosane	0.69	mg/Kg dry	356637	11.239	1	000112-95-8	95	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
n-Hexadecanoic acid	0.57	mg/Kg dry	252278	6.507	1	000057-10-3	99	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Nonadecane, 9-methyl-	0.51	mg/Kg dry	263709	12.667	1	013287-24-6	93	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Oxirane, heptadecyl-	0.37	mg/Kg dry	194919	12.341	1	067860-04-2	94	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Squalene	0.41	mg/Kg dry	211940	10.627	1	007683-64-9	91	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Urs-12-ene, 3-methoxy-, (3....	0.29	mg/Kg dry	150247	14.111	1	014021-28-4	86	SW-846 8270D	1/18/18	1/18/18 16:52	BGL
Vitamin E	0.18	mg/Kg dry	92587	12.909	1	010191-41-0	99	SW-846 8270D	1/18/18	1/18/18 16:52	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-3
Sampled: 1/16/2018 11:30
Sample ID: 18A0479-12
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.3	0.19	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Arsenic	0.34	0.21	0.034	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:44	MJH
Beryllium	0.056	0.28	0.020	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:44	MJH
Chromium	1.8	5.3	0.19	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Copper	0.57	5.3	0.25	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Iron	960	11	1.5	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Lead	1.7	2.1	0.070	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Manganese	7.5	5.5	0.17	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Mercury	ND	0.031	0.0031	mg/Kg dry	1		SW-846 7471B	1/22/18	1/22/18 14:15	EJB
Nickel	0.45	5.3	0.20	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Selenium	ND	0.88	0.059	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:44	MJH
Silver	ND	0.093	0.0034	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Thallium	0.0084	0.068	0.0051	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH
Zinc	2.8	10	0.39	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:44	MJH
Cadmium	ND	0.40	0.014	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:05	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-3
Sampled: 1/16/2018 11:30

Sample ID: 18A0479-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	37	37	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	1.9	2.9	0.92	mg/Kg dry	1	J	SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	ND	230	110	mg/Kg dry	1		ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	79.1			% Wt	1		SM 2540G	1/18/18	1/19/18 7:28	MRL

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.63	0.97	0.23	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Acrylonitrile	ND	0.058	0.024	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0097	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Benzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Bromobenzene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Bromochloromethane	ND	0.019	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Bromodichloromethane	ND	0.019	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Bromoform	ND	0.019	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Bromomethane	ND	0.097	0.041	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
2-Butanone (MEK)	ND	0.39	0.17	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
tert-Butyl Alcohol (TBA)	ND	0.39	0.20	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
n-Butylbenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
sec-Butylbenzene	ND	0.019	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
tert-Butylbenzene	ND	0.019	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0097	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Carbon Disulfide	ND	0.058	0.042	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Carbon Tetrachloride	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Chlorobenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Chlorodibromomethane	ND	0.0097	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Chloroethane	ND	0.19	0.015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Chloroform	ND	0.039	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Chloromethane	ND	0.097	0.062	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
2-Chlorotoluene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
4-Chlorotoluene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2-Dibromoethane (EDB)	ND	0.0097	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Dibromomethane	ND	0.019	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2-Dichlorobenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,3-Dichlorobenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,4-Dichlorobenzene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.039	0.020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.19	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1-Dichloroethane	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2-Dichloroethane	ND	0.019	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1-Dichloroethylene	ND	0.039	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
cis-1,2-Dichloroethylene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
trans-1,2-Dichloroethylene	ND	0.019	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2-Dichloropropane	ND	0.019	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,3-Dichloropropane	ND	0.0097	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
2,2-Dichloropropane	ND	0.019	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1-Dichloropropene	ND	0.019	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
cis-1,3-Dichloropropene	ND	0.0097	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
trans-1,3-Dichloropropene	ND	0.0097	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Diethyl Ether	ND	0.19	0.017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0097	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,4-Dioxane	ND	0.97	0.56	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Ethylbenzene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Hexachlorobutadiene	ND	0.019	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
2-Hexanone (MBK)	ND	0.19	0.11	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Isopropylbenzene (Cumene)	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.039	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Methylene Chloride	ND	0.19	0.069	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.19	0.074	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Naphthalene	ND	0.039	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
n-Propylbenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Styrene	ND	0.019	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.019	0.017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0097	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Tetrachloroethylene	ND	0.019	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Tetrahydrofuran	ND	0.097	0.021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Toluene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2,3-Trichlorobenzene	ND	0.019	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2,4-Trichlorobenzene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,3,5-Trichlorobenzene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1,1-Trichloroethane	ND	0.019	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1,2-Trichloroethane	ND	0.019	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Trichloroethylene	ND	0.019	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.097	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2,3-Trichloropropane	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.097	0.0087	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,2,4-Trimethylbenzene	ND	0.019	0.0078	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
1,3,5-Trimethylbenzene	ND	0.019	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
Vinyl Chloride	ND	0.097	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
m+p Xylene	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF
o-Xylene	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 21:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.3	70-130		1/19/18 21:24
Toluene-d8	98.8	70-130		1/19/18 21:24
4-Bromofluorobenzene	101	70-130		1/19/18 21:24

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 21:24	MFF

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.021	0.018	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 2:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	98.7	40-160		1/20/18 2:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.3	0.38	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Acenaphthylene	ND	1.3	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Acetophenone	ND	2.6	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Aniline	ND	2.6	0.72	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Anthracene	ND	1.3	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzidine	ND	5.0	3.2	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzo(a)anthracene	ND	1.3	0.34	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzo(a)pyrene	ND	1.3	0.40	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzo(b)fluoranthene	ND	1.3	0.36	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzo(g,h,i)perylene	ND	1.3	0.56	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzo(k)fluoranthene	ND	1.3	0.40	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Benzoic Acid	ND	7.5	1.4	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Bis(2-chloroethoxy)methane	ND	2.6	0.49	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Bis(2-chloroethyl)ether	ND	2.6	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Bis(2-chloroisopropyl)ether	ND	2.6	0.55	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	2.6	0.99	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Bromophenylphenylether	ND	2.6	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Butylbenzylphthalate	ND	2.6	0.61	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Carbazole	ND	1.3	0.33	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Chloroaniline	ND	5.0	0.59	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Chloro-3-methylphenol	ND	5.0	0.55	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Chloronaphthalene	ND	2.6	0.48	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Chlorophenol	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Chlorophenylphenylether	ND	2.6	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Chrysene	ND	1.3	0.40	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Dibenz(a,h)anthracene	ND	1.3	0.78	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Dibenzofuran	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Di-n-butylphthalate	ND	2.6	0.56	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,2-Dichlorobenzene	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,3-Dichlorobenzene	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,4-Dichlorobenzene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
3,3-Dichlorobenzidine	ND	1.3	0.39	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4-Dichlorophenol	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Diethylphthalate	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4-Dimethylphenol	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Dimethylphthalate	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4,6-Dinitro-2-methylphenol	ND	2.6	2.4	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4-Dinitrophenol	ND	5.0	1.5	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4-Dinitrotoluene	ND	2.6	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,6-Dinitrotoluene	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Di-n-octylphthalate	ND	2.6	1.3	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	2.6	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Fluoranthene	ND	1.3	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Fluorene	ND	1.3	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Hexachlorobutadiene	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Hexachlorocyclopentadiene	ND	2.6	0.54	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Hexachloroethane	ND	2.6	0.51	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Indeno(1,2,3-cd)pyrene	ND	1.3	0.92	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Isophorone	ND	2.6	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1-Methylnaphthalene	ND	1.3	0.49	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Methylnaphthalene	ND	1.3	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Methylphenol	ND	2.6	0.64	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
3/4-Methylphenol	ND	2.6	0.81	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Naphthalene	ND	1.3	0.65	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Nitroaniline	ND	2.6	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
3-Nitroaniline	ND	2.6	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Nitroaniline	ND	2.6	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Nitrobenzene	ND	2.6	0.48	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2-Nitrophenol	ND	2.6	0.68	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-Nitrophenol	ND	5.0	0.56	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
N-Nitrosodimethylamine	ND	2.6	1.6	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
N-Nitrosodiphenylamine	ND	2.6	0.53	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
N-Nitrosodi-n-propylamine	ND	2.6	0.53	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Pentachloronitrobenzene	ND	2.6	0.61	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Pentachlorophenol	ND	2.6	0.62	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Phenanthrene	ND	1.3	0.66	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Phenol	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Pyrene	ND	1.3	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Pyridine	ND	2.6	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
1,2,4-Trichlorobenzene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4,5-Trichlorophenol	ND	2.6	0.58	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL
2,4,6-Trichlorophenol	ND	2.6	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.6	30-130		1/18/18 17:17
Phenol-d6	49.1	30-130		1/18/18 17:17
Nitrobenzene-d5	45.0	30-130		1/18/18 17:17
2-Fluorobiphenyl	44.7	30-130		1/18/18 17:17
2,4,6-Tribromophenol	43.1	30-130		1/18/18 17:17
p-Terphenyl-d14	43.8	30-130		1/18/18 17:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
(Z)-14-Tricosenyl formate	2.6	mg/Kg dry	189222	12.338	1	077899-10-6	89	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
4-((1E)-3-Hydroxy-1-propeny...	8.3	mg/Kg dry	511556	5.967	1	1000297-95-5	97	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Furfural	2.9	mg/Kg dry	118066	2.586	1	000098-01-1	96	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Hentriacontane	11	mg/Kg dry	758347	12.673	1	000630-04-6	97	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
n-Hexadecanoic acid	3.2	mg/Kg dry	197156	6.507	1	000057-10-3	99	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
p-Hydroxycinnamic acid	4.4	mg/Kg dry	273746	6.079	1	000501-98-4	94	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Picein	3.7	mg/Kg dry	299380	8.417	1	000530-14-3	95	SW-846 8270D	1/18/18	1/18/18 17:17	BGL
Tridecane, 1-iodo-	8.4	mg/Kg dry	601869	11.239	1	035599-77-0	93	SW-846 8270D	1/18/18	1/18/18 17:17	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-4
Sampled: 1/16/2018 13:15
Sample ID: 18A0479-13
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	13	1.1	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Arsenic	11	1.2	0.20	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:46	MJH
Beryllium	1.6	1.7	0.12	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:46	MJH
Chromium	18	31	1.1	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Copper	29	31	1.4	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Iron	18000	61	8.5	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Lead	31	12	0.40	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Manganese	120	32	0.98	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Mercury	0.053	0.19	0.019	mg/Kg dry	1	J	SW-846 7471B	1/22/18	1/22/18 14:16	EJB
Nickel	9.1	31	1.1	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Selenium	1.5	5.2	0.35	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:46	MJH
Silver	0.099	0.54	0.020	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Thallium	0.29	0.39	0.029	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH
Zinc	120	62	2.3	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:46	MJH
Cadmium	0.80	2.3	0.078	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:08	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-4
Sampled: 1/16/2018 13:15

Sample ID: 18A0479-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	210	210	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	5.8	17	5.5	mg/Kg dry	1	J	SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	ND	1400	640	mg/Kg dry	1		ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	13.3			% Wt	1		SM 2540G	1/18/18	1/19/18 7:28	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.20	0.26	0.060	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Acrylonitrile	ND	0.015	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Benzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Bromobenzene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Bromochloromethane	ND	0.0051	0.0036	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Bromodichloromethane	ND	0.0051	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Bromoform	ND	0.0051	0.0036	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Bromomethane	ND	0.026	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
2-Butanone (MEK)	ND	0.10	0.045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.054	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
n-Butylbenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
sec-Butylbenzene	ND	0.0051	0.0026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
tert-Butylbenzene	ND	0.0051	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Carbon Disulfide	ND	0.015	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Carbon Tetrachloride	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Chlorobenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Chlorodibromomethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Chloroethane	ND	0.051	0.0038	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Chloroform	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Chloromethane	ND	0.026	0.016	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
2-Chlorotoluene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
4-Chlorotoluene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0051	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Dibromomethane	ND	0.0051	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2-Dichlorobenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,3-Dichlorobenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,4-Dichlorobenzene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.010	0.0054	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.051	0.0033	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1-Dichloroethane	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2-Dichloroethane	ND	0.0051	0.0033	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1-Dichloroethylene	ND	0.010	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
cis-1,2-Dichloroethylene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
trans-1,2-Dichloroethylene	ND	0.0051	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2-Dichloropropane	ND	0.0051	0.0033	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,3-Dichloropropane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
2,2-Dichloropropane	ND	0.0051	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1-Dichloropropene	ND	0.0051	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
cis-1,3-Dichloropropene	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
trans-1,3-Dichloropropene	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Diethyl Ether	ND	0.051	0.0046	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,4-Dioxane	ND	0.26	0.15	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Ethylbenzene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Hexachlorobutadiene	ND	0.0051	0.0026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
2-Hexanone (MBK)	ND	0.051	0.028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Isopropylbenzene (Cumene)	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
p-Isopropyltoluene (p-Cymene)	0.0054	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.010	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Methylene Chloride	ND	0.051	0.018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.051	0.019	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Naphthalene	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
n-Propylbenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Styrene	ND	0.0051	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0051	0.0046	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Tetrachloroethylene	ND	0.0051	0.0033	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Tetrahydrofuran	ND	0.026	0.0056	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Toluene	0.0069	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2,3-Trichlorobenzene	ND	0.0051	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2,4-Trichlorobenzene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,3,5-Trichlorobenzene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1,1-Trichloroethane	ND	0.0051	0.0026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1,2-Trichloroethane	ND	0.0051	0.0031	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Trichloroethylene	ND	0.0051	0.0026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.026	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2,3-Trichloropropane	ND	0.0051	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,2,4-Trimethylbenzene	ND	0.0051	0.0020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
1,3,5-Trimethylbenzene	ND	0.0051	0.0015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
Vinyl Chloride	ND	0.026	0.0028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
m+p Xylene	ND	0.010	0.0044	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF
o-Xylene	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	84.5	70-130		1/19/18 20:01
Toluene-d8	101	70-130		1/19/18 20:01
4-Bromofluorobenzene	102	70-130		1/19/18 20:01

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 20:01	MFF

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Field Sample #: SD-5
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Sample ID: 18A0479-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0051	0.0043	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 2:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	93.2	40-160		1/20/18 2:49

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Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.48	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Acenaphthylene	ND	0.48	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Acetophenone	ND	0.95	0.19	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Aniline	ND	0.95	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Anthracene	ND	0.48	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzidine	ND	1.9	1.2	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzo(a)anthracene	ND	0.48	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzo(a)pyrene	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzo(b)fluoranthene	ND	0.48	0.13	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzo(g,h,i)perylene	ND	0.48	0.21	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzo(k)fluoranthene	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Benzoic Acid	1.3	2.8	0.51	mg/Kg dry	1	J	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Bis(2-chloroethoxy)methane	ND	0.95	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Bis(2-chloroethyl)ether	ND	0.95	0.19	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Bis(2-chloroisopropyl)ether	ND	0.95	0.20	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.95	0.37	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Bromophenylphenylether	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Butylbenzylphthalate	ND	0.95	0.23	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Carbazole	ND	0.48	0.12	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Chloroaniline	ND	1.9	0.22	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Chloro-3-methylphenol	ND	1.9	0.20	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Chloronaphthalene	ND	0.95	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Chlorophenol	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Chlorophenylphenylether	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Chrysene	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Dibenz(a,h)anthracene	ND	0.48	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Dibenzofuran	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Di-n-butylphthalate	ND	0.95	0.21	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,2-Dichlorobenzene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,3-Dichlorobenzene	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,4-Dichlorobenzene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
3,3-Dichlorobenzidine	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4-Dichlorophenol	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Diethylphthalate	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4-Dimethylphenol	ND	0.95	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Dimethylphthalate	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4,6-Dinitro-2-methylphenol	ND	0.95	0.91	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4-Dinitrophenol	ND	1.9	0.54	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4-Dinitrotoluene	ND	0.95	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,6-Dinitrotoluene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Di-n-octylphthalate	ND	0.95	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.95	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Fluoranthene	ND	0.48	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Fluorene	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Hexachlorobutadiene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Hexachlorocyclopentadiene	ND	0.95	0.20	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Hexachloroethane	ND	0.95	0.19	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Indeno(1,2,3-cd)pyrene	ND	0.48	0.34	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Isophorone	ND	0.95	0.19	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1-Methylnaphthalene	ND	0.48	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Methylnaphthalene	ND	0.48	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Methylphenol	ND	0.95	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
3/4-Methylphenol	ND	0.95	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Naphthalene	ND	0.48	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Nitroaniline	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
3-Nitroaniline	ND	0.95	0.14	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Nitroaniline	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Nitrobenzene	ND	0.95	0.18	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2-Nitrophenol	ND	0.95	0.25	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-Nitrophenol	ND	1.9	0.21	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
N-Nitrosodimethylamine	ND	0.95	0.60	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
N-Nitrosodiphenylamine	ND	0.95	0.20	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
N-Nitrosodi-n-propylamine	ND	0.95	0.20	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Pentachloronitrobenzene	ND	0.95	0.23	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Pentachlorophenol	ND	0.95	0.23	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Phenanthrene	ND	0.48	0.25	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Phenol	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Pyrene	ND	0.48	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Pyridine	ND	0.95	0.15	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
1,2,4-Trichlorobenzene	ND	0.95	0.17	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4,5-Trichlorophenol	ND	0.95	0.22	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL
2,4,6-Trichlorophenol	ND	0.95	0.16	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 17:42	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	39.0	30-130		1/18/18 17:42
Phenol-d6	39.0	30-130		1/18/18 17:42
Nitrobenzene-d5	37.4	30-130		1/18/18 17:42
2-Fluorobiphenyl	35.0	30-130		1/18/18 17:42
2,4,6-Tribromophenol	36.8	30-130		1/18/18 17:42
p-Terphenyl-d14	35.4	30-130		1/18/18 17:42

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-5
Sampled: 1/16/2018 14:10

Sample ID: 18A0479-14

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
.beta.-Sitosterol	4.0	mg/Kg dry	863242	14.182	1	000083-46-5	95	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
16-Octadecenal	4.5	mg/Kg dry	952746	13.546	1	056554-87-1	93	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
4-((1E)-3-Hydroxy-1-propeny...	3.3	mg/Kg dry	674104	5.967	1	1000297-95-5	98	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
7-Isopropenyl-1,4a-dimethyl...	2.0	mg/Kg dry	498928	9.851	1	000473-08-5	86	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Heneicosane	5.6	mg/Kg dry	1202820	12.673	1	000629-94-7	97	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Heptadecane	7.4	mg/Kg dry	1574790	11.242	1	000629-78-7	95	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Hexadecanal	0.92	mg/Kg dry	196271	10.82	1	000629-80-1	87	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
n-Hexadecanoic acid	3.2	mg/Kg dry	659871	6.51	1	000057-10-3	97	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Octadecanal	4.8	mg/Kg dry	1028680	12.344	1	000638-66-4	91	SW-846 8270D	1/18/18	1/18/18 17:42	BGL
Vitamin E	2.0	mg/Kg dry	435229	12.909	1	010191-41-0	99	SW-846 8270D	1/18/18	1/18/18 17:42	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-5
Sampled: 1/16/2018 14:10
Sample ID: 18A0479-14
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.1	0.41	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Arsenic	3.2	0.46	0.076	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:48	MJH
Beryllium	0.59	0.63	0.044	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:48	MJH
Chromium	6.1	12	0.42	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Copper	5.6	12	0.55	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Iron	6800	23	3.2	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Lead	21	4.7	0.15	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Manganese	19	12	0.37	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Mercury	0.021	0.067	0.0067	mg/Kg dry	1	J	SW-846 7471B	1/22/18	1/22/18 14:18	EJB
Nickel	2.9	12	0.43	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Selenium	0.52	1.9	0.13	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:48	MJH
Silver	0.017	0.21	0.0075	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Thallium	0.16	0.15	0.011	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH
Zinc	27	23	0.86	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:48	MJH
Cadmium	0.23	0.89	0.030	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:12	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-5
Sampled: 1/16/2018 14:10

Sample ID: 18A0479-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	82	81	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	3.0	5.7	1.8	mg/Kg dry	1	J	SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	ND	550	250	mg/Kg dry	1		ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	35.6			% Wt	1		SM 2540G	1/18/18	1/19/18 7:28	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.68	0.64	0.15	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Acrylonitrile	ND	0.039	0.016	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0064	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Benzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Bromobenzene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Bromochloromethane	ND	0.013	0.0090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Bromodichloromethane	ND	0.013	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Bromoform	ND	0.013	0.0090	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Bromomethane	ND	0.064	0.027	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
2-Butanone (MEK)	ND	0.26	0.11	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
tert-Butyl Alcohol (TBA)	ND	0.26	0.13	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
n-Butylbenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
sec-Butylbenzene	ND	0.013	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
tert-Butylbenzene	ND	0.013	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0064	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Carbon Disulfide	ND	0.039	0.028	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Carbon Tetrachloride	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Chlorobenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Chlorodibromomethane	ND	0.0064	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Chloroethane	ND	0.13	0.0097	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Chloroform	ND	0.026	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Chloromethane	ND	0.064	0.041	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
2-Chlorotoluene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
4-Chlorotoluene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.013	0.0071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0064	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Dibromomethane	ND	0.013	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2-Dichlorobenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,3-Dichlorobenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,4-Dichlorobenzene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.13	0.0084	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1-Dichloroethane	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2-Dichloroethane	ND	0.013	0.0084	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1-Dichloroethylene	ND	0.026	0.0071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
cis-1,2-Dichloroethylene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
trans-1,2-Dichloroethylene	ND	0.013	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2-Dichloropropane	ND	0.013	0.0084	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,3-Dichloropropane	ND	0.0064	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
2,2-Dichloropropane	ND	0.013	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1-Dichloropropene	ND	0.013	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
cis-1,3-Dichloropropene	ND	0.0064	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
trans-1,3-Dichloropropene	ND	0.0064	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Diethyl Ether	ND	0.13	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0064	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,4-Dioxane	ND	0.64	0.37	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Ethylbenzene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Hexachlorobutadiene	ND	0.013	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
2-Hexanone (MBK)	ND	0.13	0.070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Isopropylbenzene (Cumene)	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.026	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Methylene Chloride	ND	0.13	0.046	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.13	0.049	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Naphthalene	ND	0.026	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
n-Propylbenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Styrene	ND	0.013	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.013	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0064	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Tetrachloroethylene	ND	0.013	0.0084	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Tetrahydrofuran	ND	0.064	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Toluene	0.012	0.013	0.0051	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2,3-Trichlorobenzene	ND	0.013	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2,4-Trichlorobenzene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,3,5-Trichlorobenzene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1,1-Trichloroethane	ND	0.013	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1,2-Trichloroethane	ND	0.013	0.0077	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Trichloroethylene	ND	0.013	0.0064	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.064	0.0071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2,3-Trichloropropane	ND	0.013	0.0071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.064	0.0058	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,2,4-Trimethylbenzene	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
1,3,5-Trimethylbenzene	ND	0.013	0.0039	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
Vinyl Chloride	ND	0.064	0.0071	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
m+p Xylene	ND	0.026	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF
o-Xylene	ND	0.013	0.0045	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.6	70-130		1/19/18 20:29
Toluene-d8	99.8	70-130		1/19/18 20:29
4-Bromofluorobenzene	100	70-130		1/19/18 20:29

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 20:29	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.012	0.010	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 3:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	87.0	40-160		1/20/18 3:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.84	0.25	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Acenaphthylene	ND	0.84	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Acetophenone	ND	1.7	0.33	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Aniline	ND	1.7	0.48	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Anthracene	ND	0.84	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzidine	ND	3.3	2.1	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzo(a)anthracene	ND	0.84	0.22	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzo(a)pyrene	ND	0.84	0.26	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzo(b)fluoranthene	ND	0.84	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzo(g,h,i)perylene	ND	0.84	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzo(k)fluoranthene	ND	0.84	0.26	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzoic Acid	46	20	3.6	mg/Kg dry	4		SW-846 8270D	1/18/18	1/19/18 16:40	BGL
Bis(2-chloroethoxy)methane	ND	1.7	0.32	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Bis(2-chloroethyl)ether	ND	1.7	0.33	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Bis(2-chloroisopropyl)ether	ND	1.7	0.36	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.7	0.65	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Bromophenylphenylether	ND	1.7	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Butylbenzylphthalate	ND	1.7	0.40	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Carbazole	ND	0.84	0.22	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Chloroaniline	ND	3.3	0.39	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Chloro-3-methylphenol	ND	3.3	0.36	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Chloronaphthalene	ND	1.7	0.32	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Chlorophenol	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Chlorophenylphenylether	ND	1.7	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Chrysene	ND	0.84	0.26	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Dibenz(a,h)anthracene	ND	0.84	0.52	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Dibenzofuran	ND	1.7	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Di-n-butylphthalate	ND	1.7	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,2-Dichlorobenzene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,3-Dichlorobenzene	ND	1.7	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,4-Dichlorobenzene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
3,3-Dichlorobenzidine	ND	0.84	0.26	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4-Dichlorophenol	ND	1.7	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Diethylphthalate	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4-Dimethylphenol	ND	1.7	0.31	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Dimethylphthalate	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4,6-Dinitro-2-methylphenol	ND	1.7	1.6	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4-Dinitrophenol	ND	3.3	0.96	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4-Dinitrotoluene	ND	1.7	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,6-Dinitrotoluene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Di-n-octylphthalate	ND	1.7	0.88	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.7	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Fluoranthene	ND	0.84	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Fluorene	ND	0.84	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Hexachlorobutadiene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Hexachlorocyclopentadiene	ND	1.7	0.36	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Hexachloroethane	ND	1.7	0.34	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Indeno(1,2,3-cd)pyrene	ND	0.84	0.60	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Isophorone	ND	1.7	0.33	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1-Methylnaphthalene	ND	0.84	0.32	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Methylnaphthalene	ND	0.84	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Methylphenol	ND	1.7	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
3/4-Methylphenol	ND	1.7	0.54	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Naphthalene	ND	0.84	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Nitroaniline	ND	1.7	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
3-Nitroaniline	ND	1.7	0.24	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Nitroaniline	ND	1.7	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Nitrobenzene	ND	1.7	0.32	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Nitrophenol	ND	1.7	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-Nitrophenol	ND	3.3	0.37	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
N-Nitrosodimethylamine	ND	1.7	1.1	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
N-Nitrosodiphenylamine	ND	1.7	0.35	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
N-Nitrosodi-n-propylamine	ND	1.7	0.35	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Pentachloronitrobenzene	ND	1.7	0.40	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Pentachlorophenol	ND	1.7	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Phenanthrene	ND	0.84	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Phenol	ND	1.7	0.29	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Pyrene	ND	0.84	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Pyridine	ND	1.7	0.27	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,2,4,5-Tetrachlorobenzene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
1,2,4-Trichlorobenzene	ND	1.7	0.30	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4,5-Trichlorophenol	ND	1.7	0.38	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2,4,6-Trichlorophenol	ND	1.7	0.28	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:07	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	45.6	30-130		1/18/18 18:07
2-Fluorophenol	49.1	30-130		1/19/18 16:40
Phenol-d6	47.6	30-130		1/18/18 18:07
Phenol-d6	50.7	30-130		1/19/18 16:40
Nitrobenzene-d5	42.1	30-130		1/18/18 18:07
Nitrobenzene-d5	49.7	30-130		1/19/18 16:40
2-Fluorobiphenyl	43.4	30-130		1/18/18 18:07
2-Fluorobiphenyl	51.0	30-130		1/19/18 16:40
2,4,6-Tribromophenol	46.0	30-130		1/18/18 18:07
2,4,6-Tribromophenol	48.6	30-130		1/19/18 16:40
p-Terphenyl-d14	46.4	30-130		1/18/18 18:07
p-Terphenyl-d14	49.6	30-130		1/19/18 16:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-6
Sampled: 1/16/2018 14:50

Sample ID: 18A0479-15

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Butanone, 4-hydroxy-	6.3	mg/Kg dry	416806	2.359	1	000590-90-9	87	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Furancarboxaldehyde, 5-(h...	11	mg/Kg dry	1021460	4.268	1	000067-47-0	89	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
2-Furanmethanol	2.2	mg/Kg dry	145744	2.666	1	000098-00-0	94	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
3-Hydroxy-4-methoxybenzoic ...	7.1	mg/Kg dry	1050790	5.43	1	000645-08-9	97	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
4-((1E)-3-Hydroxy-1-propeny...	7.9	mg/Kg dry	1293220	5.97	1	1000297-95-5	99	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
9-Octadecenoic acid, (E)-	2.3	mg/Kg dry	382168	7.088	1	000112-79-8	99	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Benzoic acid, 4-hydroxy-3,5...	2.4	mg/Kg dry	393842	6.137	1	000530-57-4	98	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Bicyclo[10.8.0]eicosane, cis-	2.3	mg/Kg dry	243574	13.546	1	1000155-82-2	97	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
eicosane	6.4	mg/Kg dry	685990	11.242	1	000112-95-8	95	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Furfural	6.9	mg/Kg dry	453535	2.579	1	000098-01-1	96	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Hentriacontane	6.1	mg/Kg dry	649395	12.673	1	000630-04-6	94	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
n-Hexadecanoic acid	3.1	mg/Kg dry	498906	6.51	1	000057-10-3	96	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Pentanoic acid, 4-oxo-	4.3	mg/Kg dry	286953	3.548	1	000123-76-2	87	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
Stigmasterol, 22,23-dihydro-	2.8	mg/Kg dry	299079	14.179	1	1000214-20-7	99	SW-846 8270D	1/18/18	1/18/18 18:07	BGL
vanillin	3.3	mg/Kg dry	490213	4.92	1	000121-33-5	97	SW-846 8270D	1/18/18	1/18/18 18:07	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-6
Sampled: 1/16/2018 14:50
Sample ID: 18A0479-15
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	9.0	0.73	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Arsenic	4.1	0.81	0.13	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:50	MJH
Beryllium	1.5	1.1	0.078	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:50	MJH
Chromium	13	21	0.74	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Copper	8.0	21	0.98	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Iron	15000	42	5.8	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Lead	28	8.3	0.27	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Manganese	44	22	0.66	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Mercury	0.046	0.13	0.013	mg/Kg dry	1	J	SW-846 7471B	1/22/18	1/22/18 14:20	EJB
Nickel	5.0	21	0.77	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Selenium	1.1	3.4	0.23	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:50	MJH
Silver	0.045	0.37	0.013	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Thallium	0.24	0.27	0.020	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH
Zinc	48	41	1.5	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:50	MJH
Cadmium	0.41	1.6	0.053	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:15	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-6
Sampled: 1/16/2018 14:50

Sample ID: 18A0479-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	140	140	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	8.9	11	3.7	mg/Kg dry	1	J	SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	530	950	440	mg/Kg dry	1	J	ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	20.2			% Wt	1		SM 2540G	1/18/18	1/19/18 7:29	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 1 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-16

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Acrylonitrile	ND	5.0	0.58	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Benzene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Bromobenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Bromochloromethane	ND	1.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Bromodichloromethane	ND	0.50	0.30	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Bromoform	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Bromomethane	ND	2.0	0.94	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
2-Butanone (MEK)	ND	20	2.4	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
n-Butylbenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
sec-Butylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
tert-Butylbenzene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Carbon Disulfide	ND	4.0	1.0	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Carbon Tetrachloride	ND	5.0	0.25	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Chlorobenzene	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Chlorodibromomethane	ND	0.50	0.10	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Chloroethane	ND	2.0	0.28	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Chloroform	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Chloromethane	ND	2.0	0.55	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
2-Chlorotoluene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
4-Chlorotoluene	ND	1.0	0.14	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Dibromomethane	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1-Dichloroethane	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2-Dichloroethane	ND	1.0	0.19	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1-Dichloroethylene	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2-Dichloropropane	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,3-Dichloropropane	ND	0.50	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
2,2-Dichloropropane	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1-Dichloropropene	ND	2.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Diethyl Ether	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 1 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-16

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,4-Dioxane	ND	50	26	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Ethylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Hexachlorobutadiene	ND	0.60	0.59	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
2-Hexanone (MBK)	ND	10	1.5	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Methylene Chloride	ND	5.0	3.2	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Naphthalene	ND	2.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
n-Propylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Styrene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Tetrachloroethylene	ND	1.0	0.27	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Tetrahydrofuran	ND	10	1.1	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Toluene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1,1-Trichloroethane	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1,2-Trichloroethane	ND	1.0	0.24	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Trichloroethylene	ND	1.0	0.20	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2,3-Trichloropropane	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
Vinyl Chloride	ND	2.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
m+p Xylene	ND	2.0	0.26	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF
o-Xylene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 12:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.4	70-130		1/19/18 12:37
Toluene-d8	101	70-130		1/19/18 12:37
4-Bromofluorobenzene	105	70-130		1/19/18 12:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 1
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-16
Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclobutane, methyl-	0.0093	mg/Kg wet	82753	2.309	1	000598-61-8	86	SW-846 8260C	1/19/18	1/19/18 12:37	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 2
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-17
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Acrylonitrile	ND	5.0	0.58	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Benzene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Bromobenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Bromochloromethane	ND	1.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Bromodichloromethane	ND	0.50	0.30	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Bromoform	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Bromomethane	ND	2.0	0.94	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
2-Butanone (MEK)	ND	20	2.4	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
n-Butylbenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
sec-Butylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
tert-Butylbenzene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Carbon Disulfide	ND	4.0	1.0	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Carbon Tetrachloride	ND	5.0	0.25	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Chlorobenzene	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Chlorodibromomethane	ND	0.50	0.10	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Chloroethane	ND	2.0	0.28	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Chloroform	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Chloromethane	ND	2.0	0.55	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
2-Chlorotoluene	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
4-Chlorotoluene	ND	1.0	0.14	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Dibromomethane	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1-Dichloroethane	ND	1.0	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2-Dichloroethane	ND	1.0	0.19	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1-Dichloroethylene	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2-Dichloropropane	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,3-Dichloropropane	ND	0.50	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
2,2-Dichloropropane	ND	1.0	0.21	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1-Dichloropropene	ND	2.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Diethyl Ether	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump | Sample Description: | Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: Trip Blank 2 | Sampled: 1/16/2018 00:00

Sample ID: 18A0479-17

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,4-Dioxane	ND	50	26	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Ethylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Hexachlorobutadiene	ND	0.60	0.59	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
2-Hexanone (MBK)	ND	10	1.5	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Methylene Chloride	ND	5.0	3.2	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Naphthalene	ND	2.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
n-Propylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Styrene	ND	1.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Tetrachloroethylene	ND	1.0	0.27	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Tetrahydrofuran	ND	10	1.1	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Toluene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1,1-Trichloroethane	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.24	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Trichloroethylene	ND	1.0	0.20	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2,3-Trichloropropane	ND	2.0	0.22	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
Vinyl Chloride	ND	2.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
m+p Xylene	ND	2.0	0.26	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF
o-Xylene	ND	1.0	0.13	mg/Kg wet	1		SW-846 8260B	1/19/18	1/19/18 13:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.4	70-130		1/19/18 13:04
Toluene-d8	101	70-130		1/19/18 13:04
4-Bromofluorobenzene	104	70-130		1/19/18 13:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: Trip Blank 2
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-17
Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1			SW-846 8260C	1/19/18	1/19/18 13:04	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-18
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.89	1.2	0.27	mg/Kg dry	1	J	SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Acrylonitrile	ND	0.070	0.029	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.012	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Benzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Bromobenzene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Bromochloromethane	ND	0.023	0.016	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Bromodichloromethane	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Bromoform	ND	0.023	0.016	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Bromomethane	ND	0.12	0.049	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
2-Butanone (MEK)	ND	0.47	0.20	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
tert-Butyl Alcohol (TBA)	ND	0.47	0.24	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
n-Butylbenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
sec-Butylbenzene	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
tert-Butylbenzene	ND	0.023	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.012	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Carbon Disulfide	ND	0.070	0.050	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Carbon Tetrachloride	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Chlorobenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Chlorodibromomethane	ND	0.012	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Chloroethane	ND	0.23	0.018	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Chloroform	ND	0.047	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Chloromethane	ND	0.12	0.075	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
2-Chlorotoluene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
4-Chlorotoluene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2-Dibromoethane (EDB)	ND	0.012	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Dibromomethane	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2-Dichlorobenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,3-Dichlorobenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,4-Dichlorobenzene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.047	0.025	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.23	0.015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1-Dichloroethane	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2-Dichloroethane	ND	0.023	0.015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1-Dichloroethylene	ND	0.047	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
cis-1,2-Dichloroethylene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
trans-1,2-Dichloroethylene	ND	0.023	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2-Dichloropropane	ND	0.023	0.015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,3-Dichloropropane	ND	0.012	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
2,2-Dichloropropane	ND	0.023	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1-Dichloropropene	ND	0.023	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
cis-1,3-Dichloropropene	ND	0.012	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
trans-1,3-Dichloropropene	ND	0.012	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Diethyl Ether	ND	0.23	0.021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-18

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.012	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,4-Dioxane	ND	1.2	0.67	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Ethylbenzene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Hexachlorobutadiene	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
2-Hexanone (MBK)	ND	0.23	0.13	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Isopropylbenzene (Cumene)	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.047	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Methylene Chloride	ND	0.23	0.083	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.23	0.089	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Naphthalene	ND	0.047	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
n-Propylbenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Styrene	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.023	0.021	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.012	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Tetrachloroethylene	ND	0.023	0.015	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Tetrahydrofuran	ND	0.12	0.026	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Toluene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2,3-Trichlorobenzene	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2,4-Trichlorobenzene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,3,5-Trichlorobenzene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1,1-Trichloroethane	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1,2-Trichloroethane	ND	0.023	0.014	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Trichloroethylene	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.12	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2,3-Trichloropropane	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.12	0.011	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,2,4-Trimethylbenzene	ND	0.023	0.0093	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
1,3,5-Trimethylbenzene	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
Vinyl Chloride	ND	0.12	0.013	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
m+p Xylene	ND	0.047	0.020	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF
o-Xylene	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	1/19/18	1/19/18 20:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.0	70-130		1/19/18 20:57
Toluene-d8	98.5	70-130		1/19/18 20:57
4-Bromofluorobenzene	97.6	70-130		1/19/18 20:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-18
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	1/19/18	1/19/18 20:57	MFF

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Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-18

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.023	0.019	mg/Kg dry	1		SW-846 8260C SIM	1/19/18	1/20/18 3:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	94.4	40-160		1/20/18 3:43

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Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-18
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.3	0.39	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Acenaphthylene	ND	1.3	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Acetophenone	ND	2.6	0.52	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Aniline	ND	2.6	0.74	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Anthracene	ND	1.3	0.38	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzidine	ND	5.1	3.3	mg/Kg dry	1	R-05, V-05	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzo(a)anthracene	ND	1.3	0.35	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzo(a)pyrene	ND	1.3	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzo(b)fluoranthene	ND	1.3	0.37	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzo(g,h,i)perylene	ND	1.3	0.58	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzo(k)fluoranthene	ND	1.3	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Benzoic Acid	ND	7.7	1.4	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Bis(2-chloroethoxy)methane	ND	2.6	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Bis(2-chloroethyl)ether	ND	2.6	0.52	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Bis(2-chloroisopropyl)ether	ND	2.6	0.56	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Bis(2-Ethylhexyl)phthalate	ND	2.6	1.0	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Bromophenylphenylether	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Butylbenzylphthalate	ND	2.6	0.62	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Carbazole	ND	1.3	0.34	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Chloroaniline	ND	5.1	0.60	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Chloro-3-methylphenol	ND	5.1	0.56	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Chloronaphthalene	ND	2.6	0.49	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Chlorophenol	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Chlorophenylphenylether	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Chrysene	ND	1.3	0.41	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Dibenz(a,h)anthracene	ND	1.3	0.80	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Dibenzofuran	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Di-n-butylphthalate	ND	2.6	0.57	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,2-Dichlorobenzene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,3-Dichlorobenzene	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,4-Dichlorobenzene	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
3,3-Dichlorobenzidine	ND	1.3	0.40	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4-Dichlorophenol	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Diethylphthalate	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4-Dimethylphenol	ND	2.6	0.49	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Dimethylphthalate	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4,6-Dinitro-2-methylphenol	ND	2.6	2.5	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4-Dinitrophenol	ND	5.1	1.5	mg/Kg dry	1	R-05, V-04	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4-Dinitrotoluene	ND	2.6	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,6-Dinitrotoluene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Di-n-octylphthalate	ND	2.6	1.4	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	2.6	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Fluoranthene	ND	1.3	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Fluorene	ND	1.3	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-18
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Hexachlorobutadiene	ND	2.6	0.46	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Hexachlorocyclopentadiene	ND	2.6	0.55	mg/Kg dry	1	V-05, V-19	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Hexachloroethane	ND	2.6	0.52	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Indeno(1,2,3-cd)pyrene	ND	1.3	0.94	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Isophorone	ND	2.6	0.51	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1-Methylnaphthalene	ND	1.3	0.50	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Methylnaphthalene	ND	1.3	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Methylphenol	ND	2.6	0.65	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
3/4-Methylphenol	ND	2.6	0.83	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Naphthalene	ND	1.3	0.67	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Nitroaniline	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
3-Nitroaniline	ND	2.6	0.38	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Nitroaniline	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Nitrobenzene	ND	2.6	0.49	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2-Nitrophenol	ND	2.6	0.69	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-Nitrophenol	ND	5.1	0.57	mg/Kg dry	1	V-05	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
N-Nitrosodimethylamine	ND	2.6	1.7	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
N-Nitrosodiphenylamine	ND	2.6	0.54	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
N-Nitrosodi-n-propylamine	ND	2.6	0.54	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Pentachloronitrobenzene	ND	2.6	0.62	mg/Kg dry	1	V-16	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Pentachlorophenol	ND	2.6	0.63	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Phenanthrene	ND	1.3	0.68	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Phenol	ND	2.6	0.45	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Pyrene	ND	1.3	0.43	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Pyridine	ND	2.6	0.42	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,2,4,5-Tetrachlorobenzene	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
1,2,4-Trichlorobenzene	ND	2.6	0.47	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4,5-Trichlorophenol	ND	2.6	0.59	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL
2,4,6-Trichlorophenol	ND	2.6	0.44	mg/Kg dry	1		SW-846 8270D	1/18/18	1/18/18 18:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.6	30-130		1/18/18 18:31
Phenol-d6	47.6	30-130		1/18/18 18:31
Nitrobenzene-d5	44.6	30-130		1/18/18 18:31
2-Fluorobiphenyl	45.2	30-130		1/18/18 18:31
2,4,6-Tribromophenol	43.9	30-130		1/18/18 18:31
p-Terphenyl-d14	44.5	30-130		1/18/18 18:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-18
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Propenoic acid, 3-(4-hydr...	3.6	mg/Kg dry	204247	6.079	1	007400-08-0	96	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
4-((1E)-3-Hydroxy-1-propeny...	7.4	mg/Kg dry	419995	5.967	1	1000297-95-5	98	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
n-Hexadecanoic acid	5.0	mg/Kg dry	285033	6.507	1	000057-10-3	95	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Nonacosane	9.5	mg/Kg dry	543282	11.239	1	000630-03-5	95	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Octacosane	6.7	mg/Kg dry	381925	12.673	1	000630-02-4	90	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Octadecanal	3.8	mg/Kg dry	214520	13.546	1	000638-66-4	91	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Oxirane, hexadecyl-	3.7	mg/Kg dry	212337	12.341	1	007390-81-0	94	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Phenanthrene, 3,9-bis(1,1-d...	4.5	mg/Kg dry	335997	8.997	1	055125-03-6	90	SW-846 8270D	1/18/18	1/18/18 18:31	BGL
Picein	4.4	mg/Kg dry	330030	8.417	1	000530-14-3	93	SW-846 8270D	1/18/18	1/18/18 18:31	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	14	1.1	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Arsenic	18	1.3	0.21	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:51	MJH
Beryllium	2.0	1.7	0.12	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:51	MJH
Chromium	21	32	1.2	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Copper	29	32	1.5	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Iron	43000	65	8.9	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Lead	34	13	0.42	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Manganese	130	34	1.0	mg/Kg dry	5		SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Mercury	0.068	0.20	0.020	mg/Kg dry	1	J	SW-846 7471B	1/22/18	1/22/18 14:21	EJB
Nickel	13	32	1.2	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Selenium	1.6	5.3	0.36	mg/Kg dry	5	J	SW-846 6020A-B	1/24/18	1/25/18 8:51	MJH
Silver	0.13	0.57	0.021	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Thallium	0.38	0.41	0.031	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH
Zinc	190	64	2.4	mg/Kg dry	5		SW-846 6020A-B	1/24/18	1/25/18 8:51	MJH
Cadmium	1.0	2.5	0.083	mg/Kg dry	5	J	SW-846 6020A-B	1/18/18	1/24/18 10:19	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SD-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	210	210	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	1/20/18	1/23/18 10:00	MMH
Nitrate as N	20	19	6.0	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	1/23/18	1/23/18 11:27	MMH
Sulfate	ND	1400	660	mg/Kg dry	1		ASTM D516-07 Modified	1/19/18	1/19/18 12:55	IS
% Solids	13.0			% Wt	1		SM 2540G	1/18/18	1/19/18 7:29	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-19
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
p-Isopropyltoluene (p-Cymene)	2.1	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	1/19/18	1/19/18 20:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		1/19/18 20:40
Toluene-d8	91.0	70-130		1/19/18 20:40
4-Bromofluorobenzene	78.6	70-130		1/19/18 20:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-19
Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Tentatively Identified Compounds	0.0	µg/L			1	NA		SW-846 8260C	1/19/18	1/19/18 20:40	EEH
No TICs Found	0.0	µg/L			1			SW-846 8260C	1/19/18	1/19/18 20:40	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-19
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	1.7	µg/L	1		SW-846 8260C SIM	1/19/18	1/20/18 6:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	71.9	40-160		1/20/18 6:50

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-19
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Aniline	ND	5.0	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzidine	ND	20	9.4	µg/L	1	V-04, V-05	SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Benzoic Acid	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Bis(2-chloroisopropyl)ether	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Chloroaniline	ND	10	3.9	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,2-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,3-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,4-Dichlorobenzene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1	V-34	SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-19

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
4-Nitrophenol	ND	10	2.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
N-Nitrosodimethylamine	ND	10	1.3	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Pentachloronitrobenzene	ND	10	2.9	µg/L	1	V-16	SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
Pyridine	ND	5.0	4.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	1/17/18	1/19/18 16:18	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	36.2	15-110		1/19/18 16:18
Phenol-d6	25.3	15-110		1/19/18 16:18
Nitrobenzene-d5	62.2	30-130		1/19/18 16:18
2-Fluorobiphenyl	63.3	30-130		1/19/18 16:18
2,4,6-Tribromophenol	63.0	15-110		1/19/18 16:18
p-Terphenyl-d14	65.6	30-130		1/19/18 16:18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479
Date Received: 1/16/2018
Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00
Sample ID: 18A0479-19
Sample Matrix: Ground Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	1/17/18	1/19/18 16:18	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-19

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Arsenic	1.2	0.80	0.72	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:27	WSD
Beryllium	ND	0.80	0.25	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Cadmium	ND	1.0	0.19	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Chromium	ND	2.0	1.0	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Copper	0.77	10	0.72	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Iron	6300	100	27	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Lead	0.63	2.0	0.28	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Manganese	220	2.0	0.39	µg/L	2		SW-846 6020A-B	1/22/18	1/23/18 15:27	MJH
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	1/18/18	1/19/18 10:13	EJB
Nickel	ND	10	0.75	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Selenium	ND	10	4.2	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Silver	ND	1.0	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Thallium	ND	0.40	0.15	µg/L	2		SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH
Zinc	13	20	9.8	µg/L	2	J	SW-846 6020A-B	1/18/18	1/19/18 15:09	MJH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Princeville Dump
Sample Description:
Work Order: 18A0479

Date Received: 1/16/2018

Field Sample #: SW-Dup
Sampled: 1/16/2018 00:00

Sample ID: 18A0479-19

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.30	0.30	mg/L	1		SM19-22 4500 NH3 C	1/20/18	1/23/18 10:00	MMH
Nitrate as N	0.079	0.050	0.035	mg/L	1		SM 21-22 4500 NO3 F	1/23/18	1/23/18 11:27	MMH
Sulfate	11	2.0	0.92	mg/L	1		ASTM D516-07	1/19/18	1/19/18 12:55	IS

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-07

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195203	100	100	01/19/18
18A0479-02 [SW-2]	B195203	100	100	01/19/18
18A0479-03 [SW-3]	B195203	100	100	01/19/18
18A0479-04 [SW-4]	B195203	100	100	01/19/18
18A0479-05 [SW-5]	B195203	100	100	01/19/18
18A0479-06 [SW-6]	B195203	100	100	01/19/18
18A0479-19 [SW-Dup]	B195203	100	100	01/19/18

ASTM D516-07 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195201	1.01	100	01/19/18
18A0479-11 [SD-2]	B195201	1.02	100	01/19/18
18A0479-12 [SD-3]	B195201	1.09	100	01/19/18
18A0479-13 [SD-4]	B195201	1.07	100	01/19/18
18A0479-14 [SD-5]	B195201	1.03	100	01/19/18
18A0479-15 [SD-6]	B195201	1.04	100	01/19/18
18A0479-18 [SD-Dup]	B195201	1.07	100	01/19/18

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195161	25.0	25.0	01/22/18

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-02 [SW-2]	B195365	25.0	25.0	01/23/18
18A0479-03 [SW-3]	B195365	25.0	25.0	01/23/18
18A0479-04 [SW-4]	B195365	25.0	25.0	01/23/18
18A0479-05 [SW-5]	B195365	25.0	25.0	01/23/18
18A0479-06 [SW-6]	B195365	25.0	25.0	01/23/18
18A0479-19 [SW-Dup]	B195365	25.0	25.0	01/23/18

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195364	1.20	50.0	01/23/18
18A0479-11 [SD-2]	B195364	1.20	50.0	01/23/18
18A0479-12 [SD-3]	B195364	1.10	50.0	01/23/18
18A0479-13 [SD-4]	B195364	1.10	50.0	01/23/18
18A0479-14 [SD-5]	B195364	1.24	50.0	01/23/18
18A0479-15 [SD-6]	B195364	1.08	50.0	01/23/18
18A0479-18 [SD-Dup]	B195364	1.03	50.0	01/23/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0479-10 [SD-1]	B195103	01/18/18

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18A0479-11 [SD-2]	B195103	01/18/18
18A0479-12 [SD-3]	B195103	01/18/18
18A0479-13 [SD-4]	B195103	01/18/18
18A0479-14 [SD-5]	B195103	01/18/18
18A0479-15 [SD-6]	B195103	01/18/18
18A0479-18 [SD-Dup]	B195103	01/18/18

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195223	100	100	01/20/18
18A0479-02 [SW-2]	B195223	100	100	01/20/18
18A0479-03 [SW-3]	B195223	100	100	01/20/18
18A0479-04 [SW-4]	B195223	100	100	01/20/18
18A0479-05 [SW-5]	B195223	100	100	01/20/18
18A0479-06 [SW-6]	B195223	100	100	01/20/18
18A0479-19 [SW-Dup]	B195223	100	100	01/20/18

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195224	1.06	100	01/20/18
18A0479-11 [SD-2]	B195224	1.08	100	01/20/18
18A0479-12 [SD-3]	B195224	1.01	100	01/20/18
18A0479-13 [SD-4]	B195224	1.06	100	01/20/18
18A0479-14 [SD-5]	B195224	1.03	100	01/20/18
18A0479-15 [SD-6]	B195224	1.08	100	01/20/18
18A0479-18 [SD-Dup]	B195224	1.10	100	01/20/18

Prep Method: SW-846 3050B-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195113	1.49	50.0	01/18/18
18A0479-11 [SD-2]	B195113	1.49	50.0	01/18/18
18A0479-12 [SD-3]	B195113	1.49	50.0	01/18/18
18A0479-13 [SD-4]	B195113	1.53	50.0	01/18/18
18A0479-14 [SD-5]	B195113	1.50	50.0	01/18/18
18A0479-15 [SD-6]	B195113	1.49	50.0	01/18/18
18A0479-18 [SD-Dup]	B195113	1.49	50.0	01/18/18

Prep Method: SW-846 3050B-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10RE1 [SD-1]	B195469	1.52	50.0	01/24/18
18A0479-11RE1 [SD-2]	B195469	1.51	50.0	01/24/18
18A0479-12RE1 [SD-3]	B195469	1.51	50.0	01/24/18
18A0479-13RE1 [SD-4]	B195469	1.52	50.0	01/24/18
18A0479-14RE1 [SD-5]	B195469	1.52	50.0	01/24/18
18A0479-15RE1 [SD-6]	B195469	1.53	50.0	01/24/18
18A0479-18RE1 [SD-Dup]	B195469	1.51	50.0	01/24/18

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195094	50.0	50.0	01/18/18
18A0479-02 [SW-2]	B195094	50.0	50.0	01/18/18
18A0479-03 [SW-3]	B195094	50.0	50.0	01/18/18
18A0479-04 [SW-4]	B195094	50.0	50.0	01/18/18
18A0479-05 [SW-5]	B195094	50.0	50.0	01/18/18
18A0479-06 [SW-6]	B195094	50.0	50.0	01/18/18
18A0479-19 [SW-Dup]	B195094	50.0	50.0	01/18/18

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01RE1 [SW-1]	B195306	50.0	50.0	01/22/18
18A0479-02RE1 [SW-2]	B195306	50.0	50.0	01/22/18
18A0479-03RE1 [SW-3]	B195306	50.0	50.0	01/22/18
18A0479-04RE1 [SW-4]	B195306	50.0	50.0	01/22/18
18A0479-05RE1 [SW-5]	B195306	50.0	50.0	01/22/18
18A0479-06RE1 [SW-6]	B195306	50.0	50.0	01/22/18
18A0479-19RE1 [SW-Dup]	B195306	50.0	50.0	01/22/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195110	6.00	6.00	01/18/18
18A0479-02 [SW-2]	B195110	6.00	6.00	01/18/18
18A0479-03 [SW-3]	B195110	6.00	6.00	01/18/18
18A0479-04 [SW-4]	B195110	6.00	6.00	01/18/18
18A0479-05 [SW-5]	B195110	6.00	6.00	01/18/18
18A0479-06 [SW-6]	B195110	6.00	6.00	01/18/18
18A0479-19 [SW-Dup]	B195110	6.00	6.00	01/18/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10RE1 [SD-1]	B195200	0.628	50.0	01/22/18
18A0479-11RE1 [SD-2]	B195200	0.614	50.0	01/22/18
18A0479-12RE1 [SD-3]	B195200	0.618	50.0	01/22/18
18A0479-13RE1 [SD-4]	B195200	0.595	50.0	01/22/18
18A0479-14RE1 [SD-5]	B195200	0.625	50.0	01/22/18
18A0479-15RE1 [SD-6]	B195200	0.590	50.0	01/22/18
18A0479-18RE1 [SD-Dup]	B195200	0.576	50.0	01/22/18

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195170	6.75	10.0	01/19/18
18A0479-11 [SD-2]	B195170	6.73	10.0	01/19/18
18A0479-12 [SD-3]	B195170	6.26	10.0	01/19/18
18A0479-13 [SD-4]	B195170	3.86	10.0	01/19/18
18A0479-14 [SD-5]	B195170	5.48	10.0	01/19/18

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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-15 [SD-6]	B195170	3.85	10.0	01/19/18
18A0479-16 [Trip Blank 1]	B195170	5.00	10.0	01/19/18
18A0479-17 [Trip Blank 2]	B195170	5.00	10.0	01/19/18
18A0479-18 [SD-Dup]	B195170	3.30	10.0	01/19/18

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195164	5	5.00	01/19/18
18A0479-02 [SW-2]	B195164	5	5.00	01/19/18
18A0479-03 [SW-3]	B195164	5	5.00	01/19/18
18A0479-04 [SW-4]	B195164	5	5.00	01/19/18
18A0479-05 [SW-5]	B195164	5	5.00	01/19/18
18A0479-06 [SW-6]	B195164	5	5.00	01/19/18
18A0479-07 [Trip Blank 1]	B195164	5	5.00	01/19/18
18A0479-08 [Trip Blank 2]	B195164	5	5.00	01/19/18
18A0479-09 [Trip Blank 3]	B195164	5	5.00	01/19/18
18A0479-19 [SW-Dup]	B195164	5	5.00	01/19/18

Prep Method: SW-846 5035-SW-846 8260C SIM

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195180	6.71	5.00	01/19/18
18A0479-11 [SD-2]	B195180	5.41	5.00	01/19/18
18A0479-12 [SD-3]	B195180	6.39	5.00	01/19/18
18A0479-13 [SD-4]	B195180	3.59	5.00	01/19/18
18A0479-14 [SD-5]	B195180	5.50	5.00	01/19/18
18A0479-15 [SD-6]	B195180	4.22	5.00	01/19/18
18A0479-18 [SD-Dup]	B195180	3.39	5.00	01/19/18

Prep Method: SW-846 5035-SW-846 8260C SIM

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195179	5	5.00	01/19/18
18A0479-02 [SW-2]	B195179	5	5.00	01/19/18
18A0479-03 [SW-3]	B195179	5	5.00	01/19/18
18A0479-04 [SW-4]	B195179	5	5.00	01/19/18
18A0479-05 [SW-5]	B195179	5	5.00	01/19/18
18A0479-06 [SW-6]	B195179	5	5.00	01/19/18
18A0479-19 [SW-Dup]	B195179	5	5.00	01/19/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-10 [SD-1]	B195090	30.0	1.00	01/18/18
18A0479-11 [SD-2]	B195090	30.0	1.00	01/18/18
18A0479-12 [SD-3]	B195090	30.0	1.00	01/18/18
18A0479-13 [SD-4]	B195090	30.0	1.00	01/18/18
18A0479-14 [SD-5]	B195090	30.0	1.00	01/18/18
18A0479-15 [SD-6]	B195090	30.0	1.00	01/18/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18A0479-15RE1 [SD-6]	B195090	30.0	1.00	01/18/18
18A0479-18 [SD-Dup]	B195090	30.0	1.00	01/18/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18A0479-01 [SW-1]	B195084	1000	1.00	01/17/18
18A0479-02 [SW-2]	B195084	1000	1.00	01/17/18
18A0479-03 [SW-3]	B195084	1000	1.00	01/17/18
18A0479-04 [SW-4]	B195084	1000	1.00	01/17/18
18A0479-05 [SW-5]	B195084	1000	1.00	01/17/18
18A0479-06 [SW-6]	B195084	1000	1.00	01/17/18
18A0479-19 [SW-Dup]	B195084	1000	1.00	01/17/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195164 - SW-846 5030B										
Blank (B195164-BLK1)				Prepared & Analyzed: 01/19/18						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195164 - SW-846 5030B										
Blank (B195164-BLK1)				Prepared & Analyzed: 01/19/18						
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.3*		µg/L	25.0		109	70-130			
Surrogate: Toluene-d8	*22.7*		µg/L	25.0		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	*19.8*		µg/L	25.0		79.0	70-130			
LCS (B195164-BS1)				Prepared & Analyzed: 01/19/18						
Acetone	98.7	50	µg/L	100		98.7	70-160			†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130			
tert-Amyl Methyl Ether (TAME)	7.21	0.50	µg/L	10.0		72.1	70-130			
Benzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromobenzene	11.6	1.0	µg/L	10.0		116	70-130			
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130			
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130			
Bromoform	11.8	1.0	µg/L	10.0		118	70-130			
Bromomethane	5.41	2.0	µg/L	10.0		54.1	40-160			†
2-Butanone (MEK)	110	20	µg/L	100		110	40-160			†
tert-Butyl Alcohol (TBA)	97.4	20	µg/L	100		97.4	40-160			†
n-Butylbenzene	8.78	1.0	µg/L	10.0		87.8	70-130			
sec-Butylbenzene	9.36	1.0	µg/L	10.0		93.6	70-130			
tert-Butylbenzene	8.33	1.0	µg/L	10.0		83.3	70-130			
tert-Butyl Ethyl Ether (TBEE)	7.89	0.50	µg/L	10.0		78.9	70-130			
Carbon Disulfide	9.79	4.0	µg/L	10.0		97.9	70-130			
Carbon Tetrachloride	9.93	5.0	µg/L	10.0		99.3	70-130			
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130			
Chloroethane	8.63	2.0	µg/L	10.0		86.3	70-130			
Chloroform	10.2	2.0	µg/L	10.0		102	70-130			
Chloromethane	7.37	2.0	µg/L	10.0		73.7	40-160			†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195164 - SW-846 5030B												
LCS (B195164-BS1)				Prepared & Analyzed: 01/19/18								
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106		70-130				
1,2-Dibromoethane (EDB)	11.9	0.50	µg/L	10.0		119		70-130				
Dibromomethane	11.8	1.0	µg/L	10.0		118		70-130				
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
trans-1,4-Dichloro-2-butene	9.32	2.0	µg/L	10.0		93.2		70-130				
Dichlorodifluoromethane (Freon 12)	6.76	2.0	µg/L	10.0		67.6		40-160				†
1,1-Dichloroethane	9.88	1.0	µg/L	10.0		98.8		70-130				
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108		70-130				
1,1-Dichloroethylene	9.10	1.0	µg/L	10.0		91.0		70-130				
cis-1,2-Dichloroethylene	9.85	1.0	µg/L	10.0		98.5		70-130				
trans-1,2-Dichloroethylene	9.96	1.0	µg/L	10.0		99.6		70-130				
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110		70-130				
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110		70-130				
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101		40-130				†
1,1-Dichloropropene	8.83	2.0	µg/L	10.0		88.3		70-130				
cis-1,3-Dichloropropene	8.64	0.50	µg/L	10.0		86.4		70-130				
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103		70-130				
Diethyl Ether	8.97	2.0	µg/L	10.0		89.7		70-130				
Diisopropyl Ether (DIPE)	9.51	0.50	µg/L	10.0		95.1		70-130				
1,4-Dioxane	141	50	µg/L	100		**141**	*	40-130			L-07	†
Ethylbenzene	9.58	1.0	µg/L	10.0		95.8		70-130				
Hexachlorobutadiene	9.94	0.50	µg/L	10.0		99.4		70-130				
2-Hexanone (MBK)	103	10	µg/L	100		103		70-160				†
Isopropylbenzene (Cumene)	8.98	1.0	µg/L	10.0		89.8		70-130				
p-Isopropyltoluene (p-Cymene)	8.87	1.0	µg/L	10.0		88.7		70-130				
Methyl tert-Butyl Ether (MTBE)	9.15	1.0	µg/L	10.0		91.5		70-130				
Methylene Chloride	9.65	5.0	µg/L	10.0		96.5		70-130				
4-Methyl-2-pentanone (MIBK)	113	10	µg/L	100		113		70-160				†
Naphthalene	7.54	2.0	µg/L	10.0		75.4		40-130				†
n-Propylbenzene	9.79	1.0	µg/L	10.0		97.9		70-130				
Styrene	9.38	1.0	µg/L	10.0		93.8		70-130				
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116		70-130				
1,1,2,2-Tetrachloroethane	13.0	0.50	µg/L	10.0		130		70-130				
Tetrachloroethylene	11.5	0.50	µg/L	10.0		115		70-130				
Tetrahydrofuran	13.0	10	µg/L	10.0		130		70-130				
Toluene	11.0	1.0	µg/L	10.0		110		70-130				
1,2,3-Trichlorobenzene	9.09	5.0	µg/L	10.0		90.9		70-130				
1,2,4-Trichlorobenzene	8.23	1.0	µg/L	10.0		82.3		70-130				
1,3,5-Trichlorobenzene	8.91	1.0	µg/L	10.0		89.1		70-130				
1,1,1-Trichloroethane	9.32	1.0	µg/L	10.0		93.2		70-130				
1,1,2-Trichloroethane	11.9	1.0	µg/L	10.0		119		70-130				
Trichloroethylene	10.2	1.0	µg/L	10.0		102		70-130				
Trichlorofluoromethane (Freon 11)	7.85	2.0	µg/L	10.0		78.5		70-130				
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.0		114		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.74	1.0	µg/L	10.0		77.4		70-130				
1,2,4-Trimethylbenzene	8.99	1.0	µg/L	10.0		89.9		70-130				
1,3,5-Trimethylbenzene	9.34	1.0	µg/L	10.0		93.4		70-130				
Vinyl Chloride	7.89	2.0	µg/L	10.0		78.9		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195164 - SW-846 5030B										
LCS (B195164-BS1)				Prepared & Analyzed: 01/19/18						
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130			
o-Xylene	9.15	1.0	µg/L	10.0		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	*27.1*		µg/L	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS Dup (B195164-BSD1)				Prepared & Analyzed: 01/19/18						
Acetone	96.4	50	µg/L	100		96.4	70-160	2.41	25	†
Acrylonitrile	11.2	5.0	µg/L	10.0		112	70-130	5.90	25	
tert-Amyl Methyl Ether (TAME)	7.10	0.50	µg/L	10.0		71.0	70-130	1.54	25	
Benzene	10.3	1.0	µg/L	10.0		103	70-130	0.390	25	
Bromobenzene	11.3	1.0	µg/L	10.0		113	70-130	2.63	25	
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130	2.78	25	
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130	3.03	25	
Bromoform	11.8	1.0	µg/L	10.0		118	70-130	0.00	25	
Bromomethane	5.69	2.0	µg/L	10.0		56.9	40-160	5.05	25	†
2-Butanone (MEK)	107	20	µg/L	100		107	40-160	3.00	25	†
tert-Butyl Alcohol (TBA)	96.1	20	µg/L	100		96.1	40-160	1.38	25	†
n-Butylbenzene	8.96	1.0	µg/L	10.0		89.6	70-130	2.03	25	
sec-Butylbenzene	9.52	1.0	µg/L	10.0		95.2	70-130	1.69	25	
tert-Butylbenzene	8.45	1.0	µg/L	10.0		84.5	70-130	1.43	25	
tert-Butyl Ethyl Ether (TBEE)	7.76	0.50	µg/L	10.0		77.6	70-130	1.66	25	
Carbon Disulfide	9.00	4.0	µg/L	10.0		90.0	70-130	8.41	25	
Carbon Tetrachloride	9.90	5.0	µg/L	10.0		99.0	70-130	0.303	25	
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.92	25	
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130	7.19	25	
Chloroethane	8.98	2.0	µg/L	10.0		89.8	70-130	3.98	25	
Chloroform	10.4	2.0	µg/L	10.0		104	70-130	1.94	25	
Chloromethane	7.66	2.0	µg/L	10.0		76.6	40-160	3.86	25	†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	0.548	25	
4-Chlorotoluene	11.2	1.0	µg/L	10.0		112	70-130	3.08	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130	2.51	25	
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.0		116	70-130	2.46	25	
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130	4.05	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.93	25	
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.92	25	
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.40	25	
trans-1,4-Dichloro-2-butene	9.66	2.0	µg/L	10.0		96.6	70-130	3.58	25	
Dichlorodifluoromethane (Freon 12)	6.65	2.0	µg/L	10.0		66.5	40-160	1.64	25	†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	1.51	25	
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	1.12	25	
1,1-Dichloroethylene	9.30	1.0	µg/L	10.0		93.0	70-130	2.17	25	
cis-1,2-Dichloroethylene	9.90	1.0	µg/L	10.0		99.0	70-130	0.506	25	
trans-1,2-Dichloroethylene	9.84	1.0	µg/L	10.0		98.4	70-130	1.21	25	
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130	1.65	25	
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130	1.74	25	
2,2-Dichloropropane	9.91	1.0	µg/L	10.0		99.1	40-130	2.10	25	†
1,1-Dichloropropene	8.82	2.0	µg/L	10.0		88.2	70-130	0.113	25	
cis-1,3-Dichloropropene	8.50	0.50	µg/L	10.0		85.0	70-130	1.63	25	
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	1.46	25	
Diethyl Ether	9.23	2.0	µg/L	10.0		92.3	70-130	2.86	25	
Diisopropyl Ether (DIPE)	9.39	0.50	µg/L	10.0		93.9	70-130	1.27	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195164 - SW-846 5030B												
LCS Dup (B195164-BSD1)				Prepared & Analyzed: 01/19/18								
1,4-Dioxane	130	50	µg/L	100		130		40-130	8.17	50		† ‡
Ethylbenzene	9.70	1.0	µg/L	10.0		97.0		70-130	1.24	25		
Hexachlorobutadiene	10.1	0.50	µg/L	10.0		101		70-130	1.89	25		
2-Hexanone (MBK)	99.3	10	µg/L	100		99.3		70-160	3.39	25		†
Isopropylbenzene (Cumene)	8.87	1.0	µg/L	10.0		88.7		70-130	1.23	25		
p-Isopropyltoluene (p-Cymene)	9.15	1.0	µg/L	10.0		91.5		70-130	3.11	25		
Methyl tert-Butyl Ether (MTBE)	9.35	1.0	µg/L	10.0		93.5		70-130	2.16	25		
Methylene Chloride	10.0	5.0	µg/L	10.0		100		70-130	3.76	25		
4-Methyl-2-pentanone (MIBK)	110	10	µg/L	100		110		70-160	2.60	25		†
Naphthalene	7.62	2.0	µg/L	10.0		76.2		40-130	1.06	25		†
n-Propylbenzene	9.92	1.0	µg/L	10.0		99.2		70-130	1.32	25		
Styrene	9.54	1.0	µg/L	10.0		95.4		70-130	1.69	25		
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113		70-130	3.06	25		
1,1,2,2-Tetrachloroethane	13.2	0.50	µg/L	10.0		**132**	*	70-130	1.14	25	L-07	
Tetrachloroethylene	10.8	0.50	µg/L	10.0		108		70-130	6.44	25		
Tetrahydrofuran	12.0	10	µg/L	10.0		120		70-130	7.85	25		
Toluene	10.7	1.0	µg/L	10.0		107		70-130	2.68	25		
1,2,3-Trichlorobenzene	9.13	5.0	µg/L	10.0		91.3		70-130	0.439	25		
1,2,4-Trichlorobenzene	8.51	1.0	µg/L	10.0		85.1		70-130	3.35	25		
1,3,5-Trichlorobenzene	8.86	1.0	µg/L	10.0		88.6		70-130	0.563	25		
1,1,1-Trichloroethane	9.39	1.0	µg/L	10.0		93.9		70-130	0.748	25		
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.0		118		70-130	0.845	25		
Trichloroethylene	10.2	1.0	µg/L	10.0		102		70-130	0.196	25		
Trichlorofluoromethane (Freon 11)	7.70	2.0	µg/L	10.0		77.0		70-130	1.93	25		
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.0		118		70-130	3.19	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.91	1.0	µg/L	10.0		79.1		70-130	2.17	25		
1,2,4-Trimethylbenzene	8.99	1.0	µg/L	10.0		89.9		70-130	0.00	25		
1,3,5-Trimethylbenzene	9.38	1.0	µg/L	10.0		93.8		70-130	0.427	25		
Vinyl Chloride	8.11	2.0	µg/L	10.0		81.1		40-160	2.75	25		†
m+p Xylene	21.0	2.0	µg/L	20.0		105		70-130	1.24	25		
o-Xylene	9.13	1.0	µg/L	10.0		91.3		70-130	0.219	25		
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.2		70-130				
Surrogate: Toluene-d8	*26.8*		µg/L	25.0		107		70-130				
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		103		70-130				
Batch B195170 - SW-846 5035												
Blank (B195170-BLK1)				Prepared & Analyzed: 01/19/18								
Acetone	ND	0.10	mg/Kg wet									
Acrylonitrile	ND	0.0060	mg/Kg wet									
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet									
Benzene	ND	0.0020	mg/Kg wet									
Bromobenzene	ND	0.0020	mg/Kg wet									
Bromochloromethane	ND	0.0020	mg/Kg wet									
Bromodichloromethane	ND	0.0020	mg/Kg wet									
Bromoform	ND	0.0020	mg/Kg wet									
Bromomethane	ND	0.010	mg/Kg wet									
2-Butanone (MEK)	ND	0.040	mg/Kg wet									
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet									
n-Butylbenzene	ND	0.0020	mg/Kg wet									
sec-Butylbenzene	ND	0.0020	mg/Kg wet									
tert-Butylbenzene	ND	0.0020	mg/Kg wet									

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195170 - SW-846 5035										
Blank (B195170-BLK1)				Prepared & Analyzed: 01/19/18						
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195170 - SW-846 5035											
Blank (B195170-BLK1)				Prepared & Analyzed: 01/19/18							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0402*		mg/Kg wet	0.0500		80.4	70-130				
Surrogate: Toluene-d8	*0.0493*		mg/Kg wet	0.0500		98.6	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0508*		mg/Kg wet	0.0500		102	70-130				
LCS (B195170-BS1)				Prepared & Analyzed: 01/19/18							
Acetone	0.202	0.10	mg/Kg wet	0.200		101	70-160				†
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		92.1	70-130				
tert-Amyl Methyl Ether (TAME)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130				
Benzene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130				
Bromobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130				
Bromochloromethane	0.0251	0.0020	mg/Kg wet	0.0200		125	70-130				
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130				
Bromoform	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130				
Bromomethane	0.0182	0.010	mg/Kg wet	0.0200		91.2	40-130				†
2-Butanone (MEK)	0.203	0.040	mg/Kg wet	0.200		102	70-160				†
tert-Butyl Alcohol (TBA)	0.192	0.040	mg/Kg wet	0.200		95.8	40-130				†
n-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130				
sec-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130				
tert-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0180	0.0010	mg/Kg wet	0.0200		90.0	70-130				
Carbon Disulfide	0.0199	0.0060	mg/Kg wet	0.0200		99.4	70-130				
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130				
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130				
Chlorodibromomethane	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130				
Chloroethane	0.0200	0.020	mg/Kg wet	0.0200		100	70-130				
Chloroform	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130				
Chloromethane	0.0184	0.010	mg/Kg wet	0.0200		91.9	70-130				
2-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130				
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0158	0.0020	mg/Kg wet	0.0200		79.0	70-130				
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130				
Dibromomethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130				
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130				
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130				
1,4-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130				
trans-1,4-Dichloro-2-butene	0.0145	0.0040	mg/Kg wet	0.0200		72.7	70-130				
Dichlorodifluoromethane (Freon 12)	0.0163	0.020	mg/Kg wet	0.0200		81.3	40-160			J	†
1,1-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130				
1,2-Dichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130				
1,1-Dichloroethylene	0.0197	0.0040	mg/Kg wet	0.0200		98.6	70-130				
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130				
trans-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195170 - SW-846 5035										
LCS (B195170-BS1)				Prepared & Analyzed: 01/19/18						
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
Diethyl Ether	0.0211	0.020	mg/Kg wet	0.0200		105	70-130			
Diisopropyl Ether (DIPE)	0.0192	0.0010	mg/Kg wet	0.0200		96.0	70-130			
1,4-Dioxane	0.229	0.10	mg/Kg wet	0.200		114	40-160			†
Ethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-160			
2-Hexanone (MBK)	0.172	0.020	mg/Kg wet	0.200		86.2	70-160			†
Isopropylbenzene (Cumene)	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130			
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0207	0.020	mg/Kg wet	0.0200		104	40-160			†
4-Methyl-2-pentanone (MIBK)	0.166	0.020	mg/Kg wet	0.200		83.2	70-160			†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.4	40-130			†
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,1,1,2-Tetrachloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,1,2,2-Tetrachloroethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Tetrachloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
Tetrahydrofuran	0.0198	0.010	mg/Kg wet	0.0200		99.0	70-130			
Toluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,3-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
1,3,5-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
1,1,1-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
1,1,2-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Trichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichlorofluoromethane (Freon 11)	0.0167	0.010	mg/Kg wet	0.0200		83.3	70-130			
1,2,3-Trichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0189	0.010	mg/Kg wet	0.0200		94.6	70-130			
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.0	40-130			†
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.2	70-130			
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0405*		mg/Kg wet	0.0500		80.9	70-130			
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195170 - SW-846 5035												
LCS Dup (B195170-BSD1)				Prepared & Analyzed: 01/19/18								
Acetone	0.173	0.10	mg/Kg wet	0.200		86.7		70-160	15.0	25		†
Acrylonitrile	0.0174	0.0060	mg/Kg wet	0.0200		87.1		70-130	5.58	25		
tert-Amyl Methyl Ether (TAME)	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	5.07	25		
Benzene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	4.48	25		
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130	1.04	25		
Bromochloromethane	0.0251	0.0020	mg/Kg wet	0.0200		125		70-130	0.00	25		
Bromodichloromethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130	5.31	25		
Bromoform	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130	0.433	25		
Bromomethane	0.0179	0.010	mg/Kg wet	0.0200		89.7		40-130	1.66	25		†
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.2		70-160	8.59	25		†
tert-Butyl Alcohol (TBA)	0.188	0.040	mg/Kg wet	0.200		94.1		40-130	1.75	25		†
n-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130	3.75	25		
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6		70-130	3.74	25		
tert-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-160	1.60	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0181	0.0010	mg/Kg wet	0.0200		90.3		70-130	0.333	25		
Carbon Disulfide	0.0196	0.0060	mg/Kg wet	0.0200		97.8		70-130	1.62	25		
Carbon Tetrachloride	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130	7.73	25		
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	2.80	25		
Chlorodibromomethane	0.0193	0.0010	mg/Kg wet	0.0200		96.4		70-130	0.311	25		
Chloroethane	0.0203	0.020	mg/Kg wet	0.0200		102		70-130	1.59	25		
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.3		70-130	8.15	25		
Chloromethane	0.0181	0.010	mg/Kg wet	0.0200		90.4		70-130	1.65	25		
2-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	0.00	25		
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130	0.103	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0134	0.0020	mg/Kg wet	0.0200		**67.0**	*	70-130	16.4	25	L-07	
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101		70-130	5.12	25		
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	2.18	25		
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130	1.44	25		
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130	6.24	25		
1,4-Dichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.0		70-130	3.79	25		
trans-1,4-Dichloro-2-butene	0.0154	0.0040	mg/Kg wet	0.0200		76.9		70-130	5.61	25		
Dichlorodifluoromethane (Freon 12)	0.0172	0.020	mg/Kg wet	0.0200		86.0		40-160	5.62	25	J	†
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	2.75	25		
1,2-Dichloroethane	0.0161	0.0020	mg/Kg wet	0.0200		80.6		70-130	3.17	25		
1,1-Dichloroethylene	0.0199	0.0040	mg/Kg wet	0.0200		99.3		70-130	0.707	25		
cis-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	3.97	25		
trans-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	0.385	25		
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	0.00	25		
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.7		70-130	8.29	25		
2,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.4		70-130	5.94	25		
1,1-Dichloropropene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130	4.12	25		
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		95.0		70-130	4.33	25		
trans-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9		70-130	5.09	25		
Diethyl Ether	0.0204	0.020	mg/Kg wet	0.0200		102		70-130	3.18	25		
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.0200		93.5		70-130	2.64	25		
1,4-Dioxane	0.181	0.10	mg/Kg wet	0.200		90.6		40-160	23.1	50		† ‡
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	1.70	25		
Hexachlorobutadiene	0.0177	0.0020	mg/Kg wet	0.0200		88.7		70-160	5.05	25		
2-Hexanone (MBK)	0.157	0.020	mg/Kg wet	0.200		78.7		70-160	9.02	25		†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	5.32	25		
p-Isopropyltoluene (p-Cymene)	0.0185	0.0020	mg/Kg wet	0.0200		92.5		70-130	1.93	25		
Methyl tert-Butyl Ether (MTBE)	0.0197	0.0040	mg/Kg wet	0.0200		98.5		70-130	2.21	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195170 - SW-846 5035										
LCS Dup (B195170-BSD1)				Prepared & Analyzed: 01/19/18						
Methylene Chloride	0.0209	0.020	mg/Kg wet	0.0200		104	40-160	0.577	25	†
4-Methyl-2-pentanone (MIBK)	0.157	0.020	mg/Kg wet	0.200		78.3	70-160	6.06	25	†
Naphthalene	0.0166	0.0040	mg/Kg wet	0.0200		82.8	40-130	4.26	25	†
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.79	25	
Styrene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.85	25	
1,1,1,2-Tetrachloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	2.68	25	
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	0.385	25	
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	5.79	25	
Tetrahydrofuran	0.0184	0.010	mg/Kg wet	0.0200		92.0	70-130	7.33	25	
Toluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.92	25	
1,2,3-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130	6.68	25	
1,2,4-Trichlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130	0.585	25	
1,3,5-Trichlorobenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130	9.52	25	
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	4.52	25	
1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.60	25	
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	8.33	25	
Trichlorofluoromethane (Freon 11)	0.0164	0.010	mg/Kg wet	0.0200		81.8	70-130	1.82	25	
1,2,3-Trichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	3.05	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130	0.106	25	
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130	2.29	25	
1,3,5-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	2.27	25	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		93.2	40-130	0.855	25	†
m+p Xylene	0.0394	0.0040	mg/Kg wet	0.0400		98.6	70-130	0.657	25	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.23	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		mg/Kg wet	0.0500		82.4	70-130			
Surrogate: Toluene-d8	*0.0494*		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0513*		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195164 - SW-846 5030B										
Blank (B195164-BLK1)				Prepared & Analyzed: 01/19/18						
Tentatively Identified Compounds	0.0		µg/L							
No TICs Found	0.0		µg/L							
Batch B195170 - SW-846 5035										
Blank (B195170-BLK1)				Prepared & Analyzed: 01/19/18						
No TICs Found	0.0		mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS (SIM) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195179 - SW-846 5035										
Blank (B195179-BLK1)				Prepared: 01/19/18 Analyzed: 01/20/18						
1,4-Dioxane	ND	2.0	µg/L							
Surrogate: 1,4-Dioxane-d8	*8.05*		µg/L	10.0		80.5	40-160			
LCS (B195179-BS1)				Prepared & Analyzed: 01/19/18						
1,4-Dioxane	10.7	2.0	µg/L	10.0		107	60-140			
Surrogate: 1,4-Dioxane-d8	*8.70*		µg/L	10.0		87.0	40-160			
LCS Dup (B195179-BSD1)				Prepared: 01/19/18 Analyzed: 01/20/18						
1,4-Dioxane	10.5	2.0	µg/L	10.0		105	60-140	1.61	20	
Surrogate: 1,4-Dioxane-d8	*8.71*		µg/L	10.0		87.1	40-160			
Batch B195180 - SW-846 5035										
Blank (B195180-BLK1)				Prepared: 01/19/18 Analyzed: 01/20/18						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*8.05*		µg/L	10.0		80.5	40-160			
LCS (B195180-BS1)				Prepared & Analyzed: 01/19/18						
1,4-Dioxane	0.0107	0.0020	mg/Kg wet	0.0100		107	60-140			
Surrogate: 1,4-Dioxane-d8	*8.70*		µg/L	10.0		87.0	40-160			
LCS Dup (B195180-BSD1)				Prepared: 01/19/18 Analyzed: 01/20/18						
1,4-Dioxane	0.0105	0.0020	mg/Kg wet	0.0100		105	60-140	1.61	20	
Surrogate: 1,4-Dioxane-d8	*8.71*		µg/L	10.0		87.1	40-160			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195084 - SW-846 3510C										
Blank (B195084-BLK1)				Prepared: 01/17/18 Analyzed: 01/19/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							V-34
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195084 - SW-846 3510C										
Blank (B195084-BLK1)				Prepared: 01/17/18 Analyzed: 01/19/18						
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*66.0*		µg/L	200		33.0	15-110			
Surrogate: Phenol-d6	*44.2*		µg/L	200		22.1	15-110			
Surrogate: Nitrobenzene-d5	*53.8*		µg/L	100		53.8	30-130			
Surrogate: 2-Fluorobiphenyl	*55.6*		µg/L	100		55.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*116*		µg/L	200		57.9	15-110			
Surrogate: p-Terphenyl-d14	*57.8*		µg/L	100		57.8	30-130			
LCS (B195084-BS1)				Prepared: 01/17/18 Analyzed: 01/19/18						
Acenaphthene	29.9	5.0	µg/L	50.0		59.8	40-140			
Acenaphthylene	29.4	5.0	µg/L	50.0		58.9	40-140			
Acetophenone	28.8	10	µg/L	50.0		57.6	40-140			
Aniline	26.3	5.0	µg/L	50.0		52.6	40-140			
Anthracene	31.6	5.0	µg/L	50.0		63.1	40-140			
Benzidine	30.8	20	µg/L	50.0		61.7	40-140			V-04, V-05
Benzo(a)anthracene	30.7	5.0	µg/L	50.0		61.4	40-140			
Benzo(a)pyrene	31.9	5.0	µg/L	50.0		63.9	40-140			
Benzo(b)fluoranthene	30.3	5.0	µg/L	50.0		60.6	40-140			
Benzo(g,h,i)perylene	33.4	5.0	µg/L	50.0		66.8	40-140			
Benzo(k)fluoranthene	30.3	5.0	µg/L	50.0		60.7	40-140			
Benzoic Acid	16.7	10	µg/L	50.0		33.4	10-130			†
Bis(2-chloroethoxy)methane	32.8	10	µg/L	50.0		65.6	40-140			
Bis(2-chloroethyl)ether	29.6	10	µg/L	50.0		59.3	40-140			
Bis(2-chloroisopropyl)ether	31.9	10	µg/L	50.0		63.8	40-140			
Bis(2-Ethylhexyl)phthalate	34.1	10	µg/L	50.0		68.2	40-140			
4-Bromophenylphenylether	32.6	10	µg/L	50.0		65.2	40-140			
Butylbenzylphthalate	32.8	10	µg/L	50.0		65.7	40-140			
Carbazole	30.6	10	µg/L	50.0		61.3	40-140			
4-Chloroaniline	21.5	10	µg/L	50.0		43.1	40-140			V-34
4-Chloro-3-methylphenol	30.2	10	µg/L	50.0		60.4	30-130			
2-Chloronaphthalene	25.9	10	µg/L	50.0		51.8	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195084 - SW-846 3510C											
LCS (B195084-BS1)				Prepared: 01/17/18 Analyzed: 01/19/18							
2-Chlorophenol	28.8	10	µg/L	50.0		57.7	30-130				
4-Chlorophenylphenylether	29.9	10	µg/L	50.0		59.7	40-140				
Chrysene	30.5	5.0	µg/L	50.0		61.1	40-140				
Dibenz(a,h)anthracene	33.2	5.0	µg/L	50.0		66.4	40-140				
Dibenzofuran	30.0	5.0	µg/L	50.0		60.0	40-140				
Di-n-butylphthalate	31.3	10	µg/L	50.0		62.6	40-140				
1,2-Dichlorobenzene	26.9	5.0	µg/L	50.0		53.7	40-140				
1,3-Dichlorobenzene	25.5	5.0	µg/L	50.0		51.1	40-140				
1,4-Dichlorobenzene	25.6	5.0	µg/L	50.0		51.2	40-140				
3,3-Dichlorobenzidine	25.3	10	µg/L	50.0		50.6	40-140			V-34	
2,4-Dichlorophenol	28.9	10	µg/L	50.0		57.7	30-130				
Diethylphthalate	30.0	10	µg/L	50.0		59.9	40-140				
2,4-Dimethylphenol	30.1	10	µg/L	50.0		60.3	30-130				
Dimethylphthalate	31.0	10	µg/L	50.0		61.9	40-140				
4,6-Dinitro-2-methylphenol	28.0	10	µg/L	50.0		55.9	30-130				
2,4-Dinitrophenol	21.0	10	µg/L	50.0		42.0	30-130				
2,4-Dinitrotoluene	32.0	10	µg/L	50.0		63.9	40-140				
2,6-Dinitrotoluene	33.2	10	µg/L	50.0		66.5	40-140				
Di-n-octylphthalate	32.0	10	µg/L	50.0		64.0	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	32.2	10	µg/L	50.0		64.4	40-140				
Fluoranthene	30.1	5.0	µg/L	50.0		60.1	40-140				
Fluorene	29.3	5.0	µg/L	50.0		58.7	40-140				
Hexachlorobenzene	30.4	10	µg/L	50.0		60.7	40-140				
Hexachlorobutadiene	29.0	10	µg/L	50.0		58.0	40-140				
Hexachlorocyclopentadiene	29.8	10	µg/L	50.0		59.6	30-140				†
Hexachloroethane	27.4	10	µg/L	50.0		54.8	40-140				
Indeno(1,2,3-cd)pyrene	32.8	5.0	µg/L	50.0		65.5	40-140				
Isophorone	30.7	10	µg/L	50.0		61.4	40-140				
1-Methylnaphthalene	28.2	5.0	µg/L	50.0		56.5	40-140				
2-Methylnaphthalene	31.3	5.0	µg/L	50.0		62.6	40-140				
2-Methylphenol	28.8	10	µg/L	50.0		57.5	30-130				
3/4-Methylphenol	29.3	10	µg/L	50.0		58.6	30-130				
Naphthalene	28.4	5.0	µg/L	50.0		56.9	40-140				
2-Nitroaniline	38.1	10	µg/L	50.0		76.1	40-140				
3-Nitroaniline	29.8	10	µg/L	50.0		59.5	40-140				
4-Nitroaniline	31.0	10	µg/L	50.0		61.9	40-140				
Nitrobenzene	29.1	10	µg/L	50.0		58.3	40-140				
2-Nitrophenol	30.7	10	µg/L	50.0		61.3	30-130				
4-Nitrophenol	31.6	10	µg/L	50.0		63.3	10-130				†
N-Nitrosodimethylamine	26.0	10	µg/L	50.0		52.1	40-140				
N-Nitrosodiphenylamine	38.2	10	µg/L	50.0		76.3	40-140				
N-Nitrosodi-n-propylamine	29.3	10	µg/L	50.0		58.5	40-140				
Pentachloronitrobenzene	30.7	10	µg/L	50.0		61.4	40-140			V-16	
Pentachlorophenol	29.5	10	µg/L	50.0		58.9	30-130				
Phenanthrene	31.1	5.0	µg/L	50.0		62.1	40-140				
Phenol	28.2	10	µg/L	50.0		56.4	20-130				†
Pyrene	32.4	5.0	µg/L	50.0		64.9	40-140				
Pyridine	20.5	5.0	µg/L	50.0		41.0	10-140				†
1,2,4,5-Tetrachlorobenzene	28.2	10	µg/L	50.0		56.3	40-140				
1,2,4-Trichlorobenzene	28.2	5.0	µg/L	50.0		56.4	40-140				
2,4,5-Trichlorophenol	29.4	10	µg/L	50.0		58.9	30-130				
2,4,6-Trichlorophenol	30.8	10	µg/L	50.0		61.7	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195084 - SW-846 3510C											
LCS (B195084-BS1)				Prepared: 01/17/18 Analyzed: 01/19/18							
Surrogate: 2-Fluorophenol	*119*		µg/L	200		59.4	15-110				
Surrogate: Phenol-d6	*121*		µg/L	200		60.5	15-110				
Surrogate: Nitrobenzene-d5	*63.0*		µg/L	100		63.0	30-130				
Surrogate: 2-Fluorobiphenyl	*62.2*		µg/L	100		62.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*127*		µg/L	200		63.7	15-110				
Surrogate: p-Terphenyl-d14	*68.0*		µg/L	100		68.0	30-130				
LCS Dup (B195084-BSD1)				Prepared: 01/17/18 Analyzed: 01/19/18							
Acenaphthene	29.7	5.0	µg/L	50.0		59.4	40-140	0.704	20		
Acenaphthylene	29.1	5.0	µg/L	50.0		58.2	40-140	1.20	20		
Acetophenone	28.9	10	µg/L	50.0		57.8	40-140	0.381	20		
Aniline	25.9	5.0	µg/L	50.0		51.8	40-140	1.61	50		‡
Anthracene	30.1	5.0	µg/L	50.0		60.2	40-140	4.83	20		
Benzidine	31.8	20	µg/L	50.0		63.6	40-140	3.16	20	V-04, V-05	
Benzo(a)anthracene	30.7	5.0	µg/L	50.0		61.4	40-140	0.0326	20		
Benzo(a)pyrene	31.6	5.0	µg/L	50.0		63.2	40-140	1.01	20		
Benzo(b)fluoranthene	30.2	5.0	µg/L	50.0		60.4	40-140	0.297	20		
Benzo(g,h,i)perylene	32.2	5.0	µg/L	50.0		64.4	40-140	3.57	20		
Benzo(k)fluoranthene	30.5	5.0	µg/L	50.0		61.0	40-140	0.460	20		
Benzoic Acid	16.8	10	µg/L	50.0		33.6	10-130	0.717	50		† ‡
Bis(2-chloroethoxy)methane	29.5	10	µg/L	50.0		59.0	40-140	10.6	20		
Bis(2-chloroethyl)ether	28.8	10	µg/L	50.0		57.6	40-140	2.87	20		
Bis(2-chloroisopropyl)ether	30.4	10	µg/L	50.0		60.8	40-140	4.91	20		
Bis(2-Ethylhexyl)phthalate	32.5	10	µg/L	50.0		65.0	40-140	4.89	20		
4-Bromophenylphenylether	30.5	10	µg/L	50.0		61.1	40-140	6.46	20		
Butylbenzylphthalate	31.5	10	µg/L	50.0		63.0	40-140	4.13	20		
Carbazole	29.2	10	µg/L	50.0		58.4	40-140	4.85	20		
4-Chloroaniline	21.7	10	µg/L	50.0		43.5	40-140	0.924	20	V-34	
4-Chloro-3-methylphenol	30.8	10	µg/L	50.0		61.5	30-130	1.87	20		
2-Chloronaphthalene	28.0	10	µg/L	50.0		55.9	40-140	7.61	20		
2-Chlorophenol	29.0	10	µg/L	50.0		58.0	30-130	0.484	20		
4-Chlorophenylphenylether	31.4	10	µg/L	50.0		62.8	40-140	4.96	20		
Chrysene	30.8	5.0	µg/L	50.0		61.5	40-140	0.750	20		
Dibenz(a,h)anthracene	32.1	5.0	µg/L	50.0		64.1	40-140	3.52	20		
Dibenzofuran	30.6	5.0	µg/L	50.0		61.1	40-140	1.78	20		
Di-n-butylphthalate	29.3	10	µg/L	50.0		58.6	40-140	6.60	20		
1,2-Dichlorobenzene	26.7	5.0	µg/L	50.0		53.5	40-140	0.485	20		
1,3-Dichlorobenzene	26.5	5.0	µg/L	50.0		52.9	40-140	3.58	20		
1,4-Dichlorobenzene	25.2	5.0	µg/L	50.0		50.5	40-140	1.45	20		
3,3-Dichlorobenzidine	26.4	10	µg/L	50.0		52.7	40-140	4.02	20	V-34	
2,4-Dichlorophenol	29.7	10	µg/L	50.0		59.5	30-130	3.00	20		
Diethylphthalate	31.6	10	µg/L	50.0		63.2	40-140	5.39	20		
2,4-Dimethylphenol	27.4	10	µg/L	50.0		54.8	30-130	9.49	20		
Dimethylphthalate	30.5	10	µg/L	50.0		60.9	40-140	1.60	50		‡
4,6-Dinitro-2-methylphenol	27.4	10	µg/L	50.0		54.8	30-130	1.95	50		‡
2,4-Dinitrophenol	21.0	10	µg/L	50.0		42.0	30-130	0.00	50		‡
2,4-Dinitrotoluene	32.9	10	µg/L	50.0		65.8	40-140	2.93	20		
2,6-Dinitrotoluene	33.9	10	µg/L	50.0		67.8	40-140	2.00	20		
Di-n-octylphthalate	30.4	10	µg/L	50.0		60.8	40-140	5.10	20		
1,2-Diphenylhydrazine (as Azobenzene)	29.0	10	µg/L	50.0		58.0	40-140	10.4	20		
Fluoranthene	30.4	5.0	µg/L	50.0		60.8	40-140	1.09	20		
Fluorene	31.3	5.0	µg/L	50.0		62.6	40-140	6.50	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B195084 - SW-846 3510C											
LCS Dup (B195084-BSD1)				Prepared: 01/17/18 Analyzed: 01/19/18							
Hexachlorobenzene	29.3	10	µg/L	50.0		58.7	40-140	3.45	20		
Hexachlorobutadiene	28.2	10	µg/L	50.0		56.4	40-140	2.66	20		
Hexachlorocyclopentadiene	31.1	10	µg/L	50.0		62.2	30-140	4.27	50		† ‡
Hexachloroethane	27.1	10	µg/L	50.0		54.1	40-140	1.32	50		‡
Indeno(1,2,3-cd)pyrene	31.9	5.0	µg/L	50.0		63.9	40-140	2.54	50		‡
Isophorone	27.7	10	µg/L	50.0		55.5	40-140	10.1	20		
1-Methylnaphthalene	28.4	5.0	µg/L	50.0		56.9	40-140	0.776	20		
2-Methylnaphthalene	31.7	5.0	µg/L	50.0		63.4	40-140	1.14	20		
2-Methylphenol	29.6	10	µg/L	50.0		59.3	30-130	3.01	20		
3/4-Methylphenol	29.6	10	µg/L	50.0		59.2	30-130	1.02	20		
Naphthalene	28.5	5.0	µg/L	50.0		57.0	40-140	0.211	20		
2-Nitroaniline	39.1	10	µg/L	50.0		78.1	40-140	2.62	20		
3-Nitroaniline	29.9	10	µg/L	50.0		59.8	40-140	0.469	20		
4-Nitroaniline	33.1	10	µg/L	50.0		66.1	40-140	6.59	20		
Nitrobenzene	27.8	10	µg/L	50.0		55.6	40-140	4.71	20		
2-Nitrophenol	28.8	10	µg/L	50.0		57.5	30-130	6.40	20		
4-Nitrophenol	31.3	10	µg/L	50.0		62.5	10-130	1.14	50		† ‡
N-Nitrosodimethylamine	28.7	10	µg/L	50.0		57.3	40-140	9.62	20		
N-Nitrosodiphenylamine	36.7	10	µg/L	50.0		73.3	40-140	4.04	20		
N-Nitrosodi-n-propylamine	29.1	10	µg/L	50.0		58.3	40-140	0.445	20		
Pentachloronitrobenzene	31.6	10	µg/L	50.0		63.3	40-140	2.98	20	V-16	
Pentachlorophenol	30.9	10	µg/L	50.0		61.7	30-130	4.64	50		‡
Phenanthrene	30.9	5.0	µg/L	50.0		61.8	40-140	0.452	20		
Phenol	28.6	10	µg/L	50.0		57.2	20-130	1.41	20		†
Pyrene	31.1	5.0	µg/L	50.0		62.2	40-140	4.25	20		
Pyridine	22.4	5.0	µg/L	50.0		44.9	10-140	9.09	50		† ‡
1,2,4,5-Tetrachlorobenzene	30.1	10	µg/L	50.0		60.3	40-140	6.76	20		
1,2,4-Trichlorobenzene	28.2	5.0	µg/L	50.0		56.4	40-140	0.106	20		
2,4,5-Trichlorophenol	31.5	10	µg/L	50.0		63.0	30-130	6.83	20		
2,4,6-Trichlorophenol	32.6	10	µg/L	50.0		65.2	30-130	5.58	50		‡
Surrogate: 2-Fluorophenol	*127*		µg/L	200		63.7	15-110				
Surrogate: Phenol-d6	*122*		µg/L	200		61.1	15-110				
Surrogate: Nitrobenzene-d5	*57.5*		µg/L	100		57.5	30-130				
Surrogate: 2-Fluorobiphenyl	*65.7*		µg/L	100		65.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*134*		µg/L	200		66.9	15-110				
Surrogate: p-Terphenyl-d14	*64.6*		µg/L	100		64.6	30-130				
Batch B195090 - SW-846 3546											
Blank (B195090-BLK1)				Prepared & Analyzed: 01/18/18							
Acenaphthene	ND	0.17	mg/Kg wet								
Acenaphthylene	ND	0.17	mg/Kg wet								
Acetophenone	ND	0.34	mg/Kg wet								
Aniline	ND	0.34	mg/Kg wet								
Anthracene	ND	0.17	mg/Kg wet								
Benzidine	ND	0.66	mg/Kg wet							R-05, V-05	
Benzo(a)anthracene	ND	0.17	mg/Kg wet								
Benzo(a)pyrene	ND	0.17	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet								
Benzoic Acid	ND	1.0	mg/Kg wet								
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet								

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195090 - SW-846 3546										
Blank (B195090-BLK1)				Prepared & Analyzed: 01/18/18						
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							V-05
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05, V-04
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05, V-19
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195090 - SW-846 3546												
Blank (B195090-BLK1)				Prepared & Analyzed: 01/18/18								
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.16*		mg/Kg wet	6.67		62.3		30-130				
Surrogate: Phenol-d6	*4.29*		mg/Kg wet	6.67		64.4		30-130				
Surrogate: Nitrobenzene-d5	*2.03*		mg/Kg wet	3.33		60.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.73*		mg/Kg wet	6.67		56.0		30-130				
Surrogate: p-Terphenyl-d14	*2.29*		mg/Kg wet	3.33		68.8		30-130				
LCS (B195090-BS1)				Prepared & Analyzed: 01/18/18								
Acenaphthene	0.789	0.17	mg/Kg wet	1.67		47.3		40-140				
Acenaphthylene	0.747	0.17	mg/Kg wet	1.67		44.8		40-140				
Acetophenone	0.724	0.34	mg/Kg wet	1.67		43.4		40-140				
Aniline	0.569	0.34	mg/Kg wet	1.67		34.1		10-140				†
Anthracene	0.809	0.17	mg/Kg wet	1.67		48.5		40-140				
Benzidine	1.01	0.66	mg/Kg wet	1.67		60.7		40-140			R-05, V-05	
Benzo(a)anthracene	0.819	0.17	mg/Kg wet	1.67		49.1		40-140				
Benzo(a)pyrene	0.798	0.17	mg/Kg wet	1.67		47.9		40-140				
Benzo(b)fluoranthene	0.767	0.17	mg/Kg wet	1.67		46.0		40-140				
Benzo(g,h,i)perylene	0.844	0.17	mg/Kg wet	1.67		50.6		40-140				
Benzo(k)fluoranthene	0.771	0.17	mg/Kg wet	1.67		46.2		40-140				
Benzoic Acid	0.405	1.0	mg/Kg wet	1.67		**24.3**	*	30-130			L-07, J	
Bis(2-chloroethoxy)methane	0.840	0.34	mg/Kg wet	1.67		50.4		40-140				
Bis(2-chloroethyl)ether	0.851	0.34	mg/Kg wet	1.67		51.1		40-140				
Bis(2-chloroisopropyl)ether	0.814	0.34	mg/Kg wet	1.67		48.8		40-140				
Bis(2-Ethylhexyl)phthalate	0.722	0.34	mg/Kg wet	1.67		43.3		40-140			V-05	
4-Bromophenylphenylether	0.825	0.34	mg/Kg wet	1.67		49.5		40-140				
Butylbenzylphthalate	0.771	0.34	mg/Kg wet	1.67		46.2		40-140				
Carbazole	0.814	0.17	mg/Kg wet	1.67		48.8		40-140				
4-Chloroaniline	0.579	0.66	mg/Kg wet	1.67		34.8		10-140			J	†
4-Chloro-3-methylphenol	0.814	0.66	mg/Kg wet	1.67		48.8		30-130				
2-Chloronaphthalene	0.710	0.34	mg/Kg wet	1.67		42.6		40-140				
2-Chlorophenol	0.762	0.34	mg/Kg wet	1.67		45.7		30-130				
4-Chlorophenylphenylether	0.766	0.34	mg/Kg wet	1.67		46.0		40-140				
Chrysene	0.810	0.17	mg/Kg wet	1.67		48.6		40-140				
Dibenz(a,h)anthracene	0.826	0.17	mg/Kg wet	1.67		49.6		40-140				
Dibenzofuran	0.785	0.34	mg/Kg wet	1.67		47.1		40-140				
Di-n-butylphthalate	0.766	0.34	mg/Kg wet	1.67		46.0		40-140				
1,2-Dichlorobenzene	0.694	0.34	mg/Kg wet	1.67		41.7		40-140				
1,3-Dichlorobenzene	0.679	0.34	mg/Kg wet	1.67		40.8		40-140				
1,4-Dichlorobenzene	0.676	0.34	mg/Kg wet	1.67		40.6		40-140				
3,3-Dichlorobenzidine	0.563	0.17	mg/Kg wet	1.67		33.8		20-140				†
2,4-Dichlorophenol	0.774	0.34	mg/Kg wet	1.67		46.5		30-130				
Diethylphthalate	0.756	0.34	mg/Kg wet	1.67		45.4		40-140				
2,4-Dimethylphenol	0.826	0.34	mg/Kg wet	1.67		49.6		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195090 - SW-846 3546												
LCS (B195090-BS1)				Prepared & Analyzed: 01/18/18								
Dimethylphthalate	0.780	0.34	mg/Kg wet	1.67		46.8		40-140				
4,6-Dinitro-2-methylphenol	0.740	0.34	mg/Kg wet	1.67		44.4		30-130				
2,4-Dinitrophenol	0.488	0.66	mg/Kg wet	1.67		**29.3**	*	30-130			L-07, R-05, V-04, J	
2,4-Dinitrotoluene	0.784	0.34	mg/Kg wet	1.67		47.0		40-140				
2,6-Dinitrotoluene	0.803	0.34	mg/Kg wet	1.67		48.2		40-140				
Di-n-octylphthalate	0.729	0.34	mg/Kg wet	1.67		43.7		40-140				
1,2-Diphenylhydrazine (as Azobenzene)	0.791	0.34	mg/Kg wet	1.67		47.5		40-140				
Fluoranthene	0.813	0.17	mg/Kg wet	1.67		48.8		40-140				
Fluorene	0.787	0.17	mg/Kg wet	1.67		47.2		40-140				
Hexachlorobenzene	0.796	0.34	mg/Kg wet	1.67		47.8		40-140				
Hexachlorobutadiene	0.705	0.34	mg/Kg wet	1.67		42.3		40-140				
Hexachlorocyclopentadiene	0.664	0.34	mg/Kg wet	1.67		**39.9**	*	40-140			L-07, V-05, V-19	
Hexachloroethane	0.690	0.34	mg/Kg wet	1.67		41.4		40-140				
Indeno(1,2,3-cd)pyrene	0.851	0.17	mg/Kg wet	1.67		51.1		40-140				
Isophorone	0.819	0.34	mg/Kg wet	1.67		49.1		40-140				
1-Methylnaphthalene	0.747	0.17	mg/Kg wet	1.67		44.8		40-140				
2-Methylnaphthalene	0.816	0.17	mg/Kg wet	1.67		48.9		40-140				
2-Methylphenol	0.718	0.34	mg/Kg wet	1.67		43.1		30-130				
3/4-Methylphenol	0.772	0.34	mg/Kg wet	1.67		46.3		30-130				
Naphthalene	0.755	0.17	mg/Kg wet	1.67		45.3		40-140				
2-Nitroaniline	0.792	0.34	mg/Kg wet	1.67		47.5		40-140				
3-Nitroaniline	0.727	0.34	mg/Kg wet	1.67		43.6		30-140				†
4-Nitroaniline	0.829	0.34	mg/Kg wet	1.67		49.7		40-140				
Nitrobenzene	0.751	0.34	mg/Kg wet	1.67		45.1		40-140				
2-Nitrophenol	0.784	0.34	mg/Kg wet	1.67		47.1		30-130				
4-Nitrophenol	0.571	0.66	mg/Kg wet	1.67		34.2		30-130			V-05, J	
N-Nitrosodimethylamine	0.682	0.34	mg/Kg wet	1.67		40.9		40-140				
N-Nitrosodiphenylamine	0.945	0.34	mg/Kg wet	1.67		56.7		40-140				
N-Nitrosodi-n-propylamine	0.751	0.34	mg/Kg wet	1.67		45.1		40-140				
Pentachloronitrobenzene	0.789	0.34	mg/Kg wet	1.67		47.3		40-140			V-16	
Pentachlorophenol	0.707	0.34	mg/Kg wet	1.67		42.4		30-130				
Phenanthrene	0.807	0.17	mg/Kg wet	1.67		48.4		40-140				
Phenol	0.885	0.34	mg/Kg wet	1.67		53.1		30-130				
Pyrene	0.820	0.17	mg/Kg wet	1.67		49.2		40-140				
Pyridine	0.573	0.34	mg/Kg wet	1.67		34.4		30-140				†
1,2,4,5-Tetrachlorobenzene	0.727	0.34	mg/Kg wet	1.67		43.6		40-140				
1,2,4-Trichlorobenzene	0.733	0.34	mg/Kg wet	1.67		44.0		40-140				
2,4,5-Trichlorophenol	0.702	0.34	mg/Kg wet	1.67		42.1		30-130				
2,4,6-Trichlorophenol	0.784	0.34	mg/Kg wet	1.67		47.0		30-130				
Surrogate: 2-Fluorophenol	*3.32*		mg/Kg wet	6.67		49.8		30-130				
Surrogate: Phenol-d6	*3.38*		mg/Kg wet	6.67		50.7		30-130				
Surrogate: Nitrobenzene-d5	*1.62*		mg/Kg wet	3.33		48.6		30-130				
Surrogate: 2-Fluorobiphenyl	*1.61*		mg/Kg wet	3.33		48.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*3.36*		mg/Kg wet	6.67		50.4		30-130				
Surrogate: p-Terphenyl-d14	*1.69*		mg/Kg wet	3.33		50.7		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B195090 - SW-846 3546												
LCS Dup (B195090-BSD1)				Prepared & Analyzed: 01/18/18								
Acenaphthene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	21.9		30		
Acenaphthylene	0.931	0.17	mg/Kg wet	1.67		55.9	40-140	21.9		30		
Acetophenone	0.902	0.34	mg/Kg wet	1.67		54.1	40-140	21.9		30		
Aniline	0.832	0.34	mg/Kg wet	1.67		49.9	10-140	37.6		50		† ‡
Anthracene	0.994	0.17	mg/Kg wet	1.67		59.6	40-140	20.5		30		
Benzidine	1.42	0.66	mg/Kg wet	1.67		84.9	40-140	**33.3**	*	30	R-05, V-05	
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	23.0		30		
Benzo(a)pyrene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	23.3		30		
Benzo(b)fluoranthene	0.853	0.17	mg/Kg wet	1.67		51.2	40-140	10.6		30		
Benzo(g,h,i)perylene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	22.1		30		
Benzo(k)fluoranthene	0.970	0.17	mg/Kg wet	1.67		58.2	40-140	22.9		30		
Benzoic Acid	0.607	1.0	mg/Kg wet	1.67		36.4	30-130	39.9		50	J	‡
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	21.4		30		
Bis(2-chloroethyl)ether	0.953	0.34	mg/Kg wet	1.67		57.2	40-140	11.3		30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7	40-140	20.0		30		
Bis(2-Ethylhexyl)phthalate	0.880	0.34	mg/Kg wet	1.67		52.8	40-140	19.6		30	V-05	
4-Bromophenylphenylether	0.994	0.34	mg/Kg wet	1.67		59.6	40-140	18.6		30		
Butylbenzylphthalate	0.940	0.34	mg/Kg wet	1.67		56.4	40-140	19.8		30		
Carbazole	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	21.8		30		
4-Chloroaniline	0.772	0.66	mg/Kg wet	1.67		46.3	10-140	28.5		30		†
4-Chloro-3-methylphenol	1.01	0.66	mg/Kg wet	1.67		60.7	30-130	21.6		30		
2-Chloronaphthalene	0.830	0.34	mg/Kg wet	1.67		49.8	40-140	15.6		30		
2-Chlorophenol	0.956	0.34	mg/Kg wet	1.67		57.4	30-130	22.6		30		
4-Chlorophenylphenylether	0.978	0.34	mg/Kg wet	1.67		58.7	40-140	24.3		30		
Chrysene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	21.9		30		
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	24.5		30		
Dibenzofuran	0.994	0.34	mg/Kg wet	1.67		59.6	40-140	23.5		30		
Di-n-butylphthalate	0.940	0.34	mg/Kg wet	1.67		56.4	40-140	20.4		30		
1,2-Dichlorobenzene	0.847	0.34	mg/Kg wet	1.67		50.8	40-140	19.8		30		
1,3-Dichlorobenzene	0.842	0.34	mg/Kg wet	1.67		50.5	40-140	21.3		30		
1,4-Dichlorobenzene	0.836	0.34	mg/Kg wet	1.67		50.2	40-140	21.2		30		
3,3-Dichlorobenzidine	0.764	0.17	mg/Kg wet	1.67		45.9	20-140	30.4		50		† ‡
2,4-Dichlorophenol	0.982	0.34	mg/Kg wet	1.67		58.9	30-130	23.6		30		
Diethylphthalate	0.967	0.34	mg/Kg wet	1.67		58.0	40-140	24.4		30		
2,4-Dimethylphenol	1.01	0.34	mg/Kg wet	1.67		60.4	30-130	19.7		30		
Dimethylphthalate	0.981	0.34	mg/Kg wet	1.67		58.8	40-140	22.8		30		
4,6-Dinitro-2-methylphenol	0.879	0.34	mg/Kg wet	1.67		52.7	30-130	17.1		30		
2,4-Dinitrophenol	0.675	0.66	mg/Kg wet	1.67		40.5	30-130	**32.3**	*	30	R-05, V-04	
2,4-Dinitrotoluene	1.03	0.34	mg/Kg wet	1.67		61.8	40-140	27.1		30		
2,6-Dinitrotoluene	1.03	0.34	mg/Kg wet	1.67		62.1	40-140	25.2		30		
Di-n-octylphthalate	0.884	0.34	mg/Kg wet	1.67		53.0	40-140	19.2		30		
1,2-Diphenylhydrazine (as Azobenzene)	0.960	0.34	mg/Kg wet	1.67		57.6	40-140	19.3		30		
Fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	20.8		30		
Fluorene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140	23.6		30		
Hexachlorobenzene	0.986	0.34	mg/Kg wet	1.67		59.1	40-140	21.3		30		
Hexachlorobutadiene	0.869	0.34	mg/Kg wet	1.67		52.2	40-140	20.9		30		
Hexachlorocyclopentadiene	0.761	0.34	mg/Kg wet	1.67		45.7	40-140	13.6		30	V-05, V-19	
Hexachloroethane	0.845	0.34	mg/Kg wet	1.67		50.7	40-140	20.3		30		
Indeno(1,2,3-cd)pyrene	1.07	0.17	mg/Kg wet	1.67		63.9	40-140	22.3		30		
Isophorone	0.995	0.34	mg/Kg wet	1.67		59.7	40-140	19.4		30		
1-Methylnaphthalene	0.929	0.17	mg/Kg wet	1.67		55.8	40-140	21.8		30		
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	21.6		30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B195090 - SW-846 3546												
LCS Dup (B195090-BSD1)				Prepared & Analyzed: 01/18/18								
2-Methylphenol	0.930	0.34	mg/Kg wet	1.67		55.8		30-130	25.7	30		
3/4-Methylphenol	0.981	0.34	mg/Kg wet	1.67		58.9		30-130	23.8	30		
Naphthalene	0.919	0.17	mg/Kg wet	1.67		55.2		40-140	19.6	30		
2-Nitroaniline	1.04	0.34	mg/Kg wet	1.67		62.7		40-140	27.6	30		
3-Nitroaniline	0.961	0.34	mg/Kg wet	1.67		57.7		30-140	27.7	30		†
4-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.2		40-140	25.4	30		
Nitrobenzene	0.916	0.34	mg/Kg wet	1.67		55.0		40-140	19.8	30		
2-Nitrophenol	0.954	0.34	mg/Kg wet	1.67		57.3		30-130	19.6	30		
4-Nitrophenol	0.676	0.66	mg/Kg wet	1.67		40.6		30-130	16.9	50	V-05	‡
N-Nitrosodimethylamine	0.843	0.34	mg/Kg wet	1.67		50.6		40-140	21.1	30		
N-Nitrosodiphenylamine	1.17	0.34	mg/Kg wet	1.67		70.4		40-140	21.6	30		
N-Nitrosodi-n-propylamine	0.925	0.34	mg/Kg wet	1.67		55.5		40-140	20.7	30		
Pentachloronitrobenzene	0.967	0.34	mg/Kg wet	1.67		58.0		40-140	20.3	30	V-16	
Pentachlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130	23.7	30		
Phenanthrene	0.996	0.17	mg/Kg wet	1.67		59.7		40-140	20.9	30		
Phenol	1.12	0.34	mg/Kg wet	1.67		67.1		30-130	23.3	30		
Pyrene	1.00	0.17	mg/Kg wet	1.67		60.2		40-140	20.0	30		
Pyridine	0.681	0.34	mg/Kg wet	1.67		40.8		30-140	17.2	30		†
1,2,4,5-Tetrachlorobenzene	0.892	0.34	mg/Kg wet	1.67		53.5		40-140	20.4	30		
1,2,4-Trichlorobenzene	0.896	0.34	mg/Kg wet	1.67		53.8		40-140	20.1	30		
2,4,5-Trichlorophenol	0.911	0.34	mg/Kg wet	1.67		54.7		30-130	26.0	30		
2,4,6-Trichlorophenol	0.971	0.34	mg/Kg wet	1.67		58.3		30-130	21.4	30		
Surrogate: 2-Fluorophenol	*4.11*		mg/Kg wet	6.67		61.6		30-130				
Surrogate: Phenol-d6	*4.19*		mg/Kg wet	6.67		62.8		30-130				
Surrogate: Nitrobenzene-d5	*1.97*		mg/Kg wet	3.33		59.1		30-130				
Surrogate: 2-Fluorobiphenyl	*1.95*		mg/Kg wet	3.33		58.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.34*		mg/Kg wet	6.67		65.0		30-130				
Surrogate: p-Terphenyl-d14	*2.03*		mg/Kg wet	3.33		61.0		30-130				
Matrix Spike (B195090-MS1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/18/18								
Acenaphthene	1.07	0.22	mg/Kg dry	2.18	ND	49.1		40-140				
Acenaphthylene	1.00	0.22	mg/Kg dry	2.18	ND	46.2		40-140				
Acetophenone	0.979	0.44	mg/Kg dry	2.18	ND	45.0		40-140				
Aniline	0.726	0.44	mg/Kg dry	2.18	ND	**33.4**	*	40-140			MS-09	
Anthracene	1.07	0.22	mg/Kg dry	2.18	ND	49.1		40-140				
Benzidine	0.000870	0.86	mg/Kg dry	2.18	ND	**0.0400**	*	40-140			MS-09, V-05, J	
Benzo(a)anthracene	1.07	0.22	mg/Kg dry	2.18	ND	49.1		40-140				
Benzo(a)pyrene	1.08	0.22	mg/Kg dry	2.18	ND	49.7		40-140				
Benzo(b)fluoranthene	0.995	0.22	mg/Kg dry	2.18	ND	45.8		40-140				
Benzo(g,h,i)perylene	0.916	0.22	mg/Kg dry	2.18	ND	42.1		40-140				
Benzo(k)fluoranthene	1.11	0.22	mg/Kg dry	2.18	ND	51.1		40-140				
Benzoic Acid	1.24	1.3	mg/Kg dry	2.18	ND	57.0		40-140			J	
Bis(2-chloroethoxy)methane	1.12	0.44	mg/Kg dry	2.18	ND	51.4		40-140				
Bis(2-chloroethyl)ether	1.01	0.44	mg/Kg dry	2.18	ND	46.4		40-140			R-06	
Bis(2-chloroisopropyl)ether	1.09	0.44	mg/Kg dry	2.18	ND	50.3		40-140				
Bis(2-Ethylhexyl)phthalate	0.985	0.44	mg/Kg dry	2.18	ND	45.3		40-140			V-05	
4-Bromophenylphenylether	1.04	0.44	mg/Kg dry	2.18	ND	47.9		40-140				
Butylbenzylphthalate	1.10	0.44	mg/Kg dry	2.18	ND	50.5		40-140				
Carbazole	1.07	0.22	mg/Kg dry	2.18	ND	49.0		40-140				
4-Chloroaniline	0.585	0.86	mg/Kg dry	2.18	ND	**26.9**	*	40-140			MS-23, J	
4-Chloro-3-methylphenol	1.05	0.86	mg/Kg dry	2.18	ND	48.3		30-130				
2-Chloronaphthalene	0.973	0.44	mg/Kg dry	2.18	ND	44.7		40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195090 - SW-846 3546											
Matrix Spike (B195090-MS1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/18/18							
2-Chlorophenol	1.04	0.44	mg/Kg dry	2.18	ND	47.7		30-130			
4-Chlorophenylphenylether	1.05	0.44	mg/Kg dry	2.18	ND	48.3		40-140			
Chrysene	1.04	0.22	mg/Kg dry	2.18	ND	48.0		40-140			
Dibenz(a,h)anthracene	0.935	0.22	mg/Kg dry	2.18	ND	43.0		40-140			
Dibenzofuran	1.07	0.44	mg/Kg dry	2.18	ND	49.1		40-140			
Di-n-butylphthalate	1.04	0.44	mg/Kg dry	2.18	ND	48.0		40-140			
1,2-Dichlorobenzene	0.942	0.44	mg/Kg dry	2.18	ND	43.3		40-140			
1,3-Dichlorobenzene	0.934	0.44	mg/Kg dry	2.18	ND	42.9		40-140			
1,4-Dichlorobenzene	0.926	0.44	mg/Kg dry	2.18	ND	42.6		40-140			
3,3-Dichlorobenzidine	0.741	0.22	mg/Kg dry	2.18	ND	**34.1**	*	40-140			MS-23
2,4-Dichlorophenol	1.04	0.44	mg/Kg dry	2.18	ND	48.0		30-130			
Diethylphthalate	1.04	0.44	mg/Kg dry	2.18	ND	47.8		40-140			
2,4-Dimethylphenol	1.08	0.44	mg/Kg dry	2.18	ND	49.8		30-130			
Dimethylphthalate	1.04	0.44	mg/Kg dry	2.18	ND	47.9		40-140			
4,6-Dinitro-2-methylphenol	0.969	0.44	mg/Kg dry	2.18	ND	44.5		30-130			
2,4-Dinitrophenol	1.29	0.86	mg/Kg dry	2.18	ND	59.3		30-130			V-04
2,4-Dinitrotoluene	1.09	0.44	mg/Kg dry	2.18	ND	50.0		40-140			
2,6-Dinitrotoluene	1.10	0.44	mg/Kg dry	2.18	ND	50.6		40-140			
Di-n-octylphthalate	1.32	0.44	mg/Kg dry	2.18	ND	60.8		40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.02	0.44	mg/Kg dry	2.18	ND	46.7		40-140			
Fluoranthene	1.11	0.22	mg/Kg dry	2.18	ND	50.9		40-140			
Fluorene	1.09	0.22	mg/Kg dry	2.18	ND	50.0		40-140			
Hexachlorobenzene	1.00	0.44	mg/Kg dry	2.18	ND	46.1		40-140			
Hexachlorobutadiene	0.941	0.44	mg/Kg dry	2.18	ND	43.2		40-140			
Hexachlorocyclopentadiene	0.359	0.44	mg/Kg dry	2.18	ND	**16.5**	*	30-130			MS-09, R-06, V-05, V-19, J
Hexachloroethane	0.821	0.44	mg/Kg dry	2.18	ND	**37.7**	*	40-140			MS-08
Indeno(1,2,3-cd)pyrene	1.13	0.22	mg/Kg dry	2.18	ND	51.9		40-140			
Isophorone	1.09	0.44	mg/Kg dry	2.18	ND	49.9		40-140			
1-Methylnaphthalene	0.978	0.22	mg/Kg dry	2.18	ND	45.0		40-140			
2-Methylnaphthalene	1.08	0.22	mg/Kg dry	2.18	ND	49.6		40-140			
2-Methylphenol	0.948	0.44	mg/Kg dry	2.18	ND	43.6		30-130			
3/4-Methylphenol	1.04	0.44	mg/Kg dry	2.18	ND	47.9		30-130			
Naphthalene	1.00	0.22	mg/Kg dry	2.18	ND	46.2		40-140			
2-Nitroaniline	1.07	0.44	mg/Kg dry	2.18	ND	49.2		40-140			
3-Nitroaniline	0.868	0.44	mg/Kg dry	2.18	ND	**39.9**	*	40-140			MS-22
4-Nitroaniline	0.966	0.44	mg/Kg dry	2.18	ND	44.4		40-140			
Nitrobenzene	1.02	0.44	mg/Kg dry	2.18	ND	46.8		40-140			
2-Nitrophenol	1.03	0.44	mg/Kg dry	2.18	ND	47.2		30-130			
4-Nitrophenol	0.884	0.86	mg/Kg dry	2.18	ND	40.6		30-130			V-05
N-Nitrosodimethylamine	1.00	0.44	mg/Kg dry	2.18	ND	46.1		40-140			
N-Nitrosodiphenylamine	1.20	0.44	mg/Kg dry	2.18	ND	55.1		40-140			
N-Nitrosodi-n-propylamine	1.01	0.44	mg/Kg dry	2.18	ND	46.6		40-140			
Pentachloronitrobenzene	1.02	0.44	mg/Kg dry	2.18	ND	46.7		40-140			V-16
Pentachlorophenol	1.16	0.44	mg/Kg dry	2.18	ND	53.5		30-130			
Phenanthrene	1.05	0.22	mg/Kg dry	2.18	ND	48.5		40-140			
Phenol	1.18	0.44	mg/Kg dry	2.18	ND	54.3		30-130			
Pyrene	1.12	0.22	mg/Kg dry	2.18	ND	51.3		40-140			
Pyridine	0.719	0.44	mg/Kg dry	2.18	ND	**33.0**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	1.00	0.44	mg/Kg dry	2.18	ND	46.1		40-140			
1,2,4-Trichlorobenzene	0.991	0.44	mg/Kg dry	2.18	ND	45.6		40-140			
2,4,5-Trichlorophenol	1.02	0.44	mg/Kg dry	2.18	ND	46.8		30-130			
2,4,6-Trichlorophenol	1.09	0.44	mg/Kg dry	2.18	ND	50.2		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B195090 - SW-846 3546												
Matrix Spike (B195090-MS1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/18/18								
Surrogate: 2-Fluorophenol	*4.41*		mg/Kg dry	8.70		50.7		30-130				
Surrogate: Phenol-d6	*4.52*		mg/Kg dry	8.70		52.0		30-130				
Surrogate: Nitrobenzene-d5	*2.13*		mg/Kg dry	4.35		49.0		30-130				
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/Kg dry	4.35		49.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.60*		mg/Kg dry	8.70		52.9		30-130				
Surrogate: p-Terphenyl-d14	*2.25*		mg/Kg dry	4.35		51.8		30-130				
Matrix Spike Dup (B195090-MSD1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/18/18								
Acenaphthene	1.27	0.22	mg/Kg dry	2.18	ND	58.4		40-140	17.3		30	
Acenaphthylene	1.19	0.22	mg/Kg dry	2.18	ND	54.8		40-140	17.1		30	
Acetophenone	1.18	0.44	mg/Kg dry	2.18	ND	54.4		40-140	18.9		30	
Aniline	0.849	0.44	mg/Kg dry	2.18	ND	**39.0**	*	40-140	15.7		30	MS-09
Anthracene	1.29	0.22	mg/Kg dry	2.18	ND	59.2		40-140	18.6		30	
Benzidine	0.213	0.86	mg/Kg dry	2.18	ND	**9.80**	*	40-140			30	MS-09, V-05, J
Benzo(a)anthracene	1.30	0.22	mg/Kg dry	2.18	ND	59.9		40-140	19.7		30	
Benzo(a)pyrene	1.32	0.22	mg/Kg dry	2.18	ND	60.6		40-140	19.8		30	
Benzo(b)fluoranthene	1.22	0.22	mg/Kg dry	2.18	ND	55.9		40-140	20.0		30	
Benzo(g,h,i)perylene	1.16	0.22	mg/Kg dry	2.18	ND	53.3		40-140	23.4		30	
Benzo(k)fluoranthene	1.39	0.22	mg/Kg dry	2.18	ND	64.1		40-140	22.5		30	
Benzoic Acid	1.55	1.3	mg/Kg dry	2.18	ND	71.4		40-140	22.5		30	
Bis(2-chloroethoxy)methane	1.37	0.44	mg/Kg dry	2.18	ND	63.0		40-140	20.4		30	
Bis(2-chloroethyl)ether	1.49	0.44	mg/Kg dry	2.18	ND	68.7		40-140	**38.9**	*	30	R-06
Bis(2-chloroisopropyl)ether	1.30	0.44	mg/Kg dry	2.18	ND	59.7		40-140	17.2		30	
Bis(2-Ethylhexyl)phthalate	1.16	0.44	mg/Kg dry	2.18	ND	53.3		40-140	16.3		30	V-05
4-Bromophenylphenylether	1.27	0.44	mg/Kg dry	2.18	ND	58.2		40-140	19.3		30	
Butylbenzylphthalate	1.30	0.44	mg/Kg dry	2.18	ND	59.7		40-140	16.7		30	
Carbazole	1.30	0.22	mg/Kg dry	2.18	ND	59.9		40-140	20.0		30	
4-Chloroaniline	0.945	0.86	mg/Kg dry	2.18	ND	43.4		40-140	**47.1**	*	30	R-06
4-Chloro-3-methylphenol	1.29	0.86	mg/Kg dry	2.18	ND	59.4		30-130	20.7		30	
2-Chloronaphthalene	1.17	0.44	mg/Kg dry	2.18	ND	54.0		40-140	18.8		30	
2-Chlorophenol	1.24	0.44	mg/Kg dry	2.18	ND	56.8		30-130	17.3		30	
4-Chlorophenylphenylether	1.25	0.44	mg/Kg dry	2.18	ND	57.6		40-140	17.6		30	
Chrysene	1.30	0.22	mg/Kg dry	2.18	ND	59.6		40-140	21.6		30	
Dibenz(a,h)anthracene	1.16	0.22	mg/Kg dry	2.18	ND	53.2		40-140	21.3		30	
Dibenzofuran	1.28	0.44	mg/Kg dry	2.18	ND	58.7		40-140	17.8		30	
Di-n-butylphthalate	1.23	0.44	mg/Kg dry	2.18	ND	56.3		40-140	16.0		30	
1,2-Dichlorobenzene	1.09	0.44	mg/Kg dry	2.18	ND	50.3		40-140	14.9		30	
1,3-Dichlorobenzene	1.07	0.44	mg/Kg dry	2.18	ND	49.0		40-140	13.3		30	
1,4-Dichlorobenzene	1.05	0.44	mg/Kg dry	2.18	ND	48.4		40-140	12.9		30	
3,3-Dichlorobenzidine	1.08	0.22	mg/Kg dry	2.18	ND	49.7		40-140	**37.4**	*	30	R-06
2,4-Dichlorophenol	1.31	0.44	mg/Kg dry	2.18	ND	60.1		30-130	22.4		30	
Diethylphthalate	1.23	0.44	mg/Kg dry	2.18	ND	56.4		40-140	16.5		30	
2,4-Dimethylphenol	1.34	0.44	mg/Kg dry	2.18	ND	61.5		30-130	21.0		30	
Dimethylphthalate	1.25	0.44	mg/Kg dry	2.18	ND	57.6		40-140	18.4		30	
4,6-Dinitro-2-methylphenol	1.17	0.44	mg/Kg dry	2.18	ND	53.9		30-130	19.1		30	
2,4-Dinitrophenol	1.63	0.86	mg/Kg dry	2.18	ND	75.2		30-130	23.7		30	V-04
2,4-Dinitrotoluene	1.27	0.44	mg/Kg dry	2.18	ND	58.4		40-140	15.5		30	
2,6-Dinitrotoluene	1.28	0.44	mg/Kg dry	2.18	ND	58.9		40-140	15.1		30	
Di-n-octylphthalate	1.61	0.44	mg/Kg dry	2.18	ND	74.2		40-140	19.9		30	
1,2-Diphenylhydrazine (as Azobenzene)	1.20	0.44	mg/Kg dry	2.18	ND	55.4		40-140	16.9		30	
Fluoranthene	1.33	0.22	mg/Kg dry	2.18	ND	61.3		40-140	18.5		30	
Fluorene	1.27	0.22	mg/Kg dry	2.18	ND	58.4		40-140	15.5		30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B195090 - SW-846 3546												
Matrix Spike Dup (B195090-MSD1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/18/18								
Hexachlorobenzene	1.22	0.44	mg/Kg dry	2.18	ND	56.1		40-140	19.5		30	
Hexachlorobutadiene	1.12	0.44	mg/Kg dry	2.18	ND	51.6		40-140	17.6		30	
Hexachlorocyclopentadiene	0.528	0.44	mg/Kg dry	2.18	ND	**24.3**	*	30-130	**38.0**	*	30	MS-09, R-06, V-05, V-19
Hexachloroethane	0.996	0.44	mg/Kg dry	2.18	ND	45.8		40-140	19.3		30	
Indeno(1,2,3-cd)pyrene	1.22	0.22	mg/Kg dry	2.18	ND	55.9		40-140	7.39		30	
Isophorone	1.32	0.44	mg/Kg dry	2.18	ND	60.5		40-140	19.1		30	
1-Methylnaphthalene	1.20	0.22	mg/Kg dry	2.18	ND	55.0		40-140	20.1		30	
2-Methylnaphthalene	1.33	0.22	mg/Kg dry	2.18	ND	61.3		40-140	21.2		30	
2-Methylphenol	1.18	0.44	mg/Kg dry	2.18	ND	54.1		30-130	21.5		30	
3/4-Methylphenol	1.27	0.44	mg/Kg dry	2.18	ND	58.5		30-130	20.0		30	
Naphthalene	1.20	0.22	mg/Kg dry	2.18	ND	55.3		40-140	18.0		30	
2-Nitroaniline	1.27	0.44	mg/Kg dry	2.18	ND	58.5		40-140	17.2		30	
3-Nitroaniline	1.17	0.44	mg/Kg dry	2.18	ND	53.7		40-140	29.4		30	
4-Nitroaniline	1.31	0.44	mg/Kg dry	2.18	ND	60.1		40-140	30.0		30	
Nitrobenzene	1.20	0.44	mg/Kg dry	2.18	ND	55.3		40-140	16.6		30	
2-Nitrophenol	1.26	0.44	mg/Kg dry	2.18	ND	58.0		30-130	20.7		30	
4-Nitrophenol	0.976	0.86	mg/Kg dry	2.18	ND	44.9		30-130	9.92		30	V-05
N-Nitrosodimethylamine	1.15	0.44	mg/Kg dry	2.18	ND	52.9		40-140	13.7		30	
N-Nitrosodiphenylamine	1.46	0.44	mg/Kg dry	2.18	ND	67.3		40-140	19.9		30	
N-Nitrosodi-n-propylamine	1.20	0.44	mg/Kg dry	2.18	ND	55.3		40-140	17.0		30	
Pentachloronitrobenzene	1.23	0.44	mg/Kg dry	2.18	ND	56.4		40-140	18.9		30	V-16
Pentachlorophenol	1.32	0.44	mg/Kg dry	2.18	ND	60.9		30-130	12.8		30	
Phenanthrene	1.29	0.22	mg/Kg dry	2.18	ND	59.2		40-140	20.0		30	
Phenol	1.46	0.44	mg/Kg dry	2.18	ND	67.1		30-130	21.0		30	
Pyrene	1.37	0.22	mg/Kg dry	2.18	ND	63.0		40-140	20.5		30	
Pyridine	0.828	0.44	mg/Kg dry	2.18	ND	**38.1**	*	40-140	14.2		30	MS-09
1,2,4,5-Tetrachlorobenzene	1.18	0.44	mg/Kg dry	2.18	ND	54.3		40-140	16.3		30	
1,2,4-Trichlorobenzene	1.17	0.44	mg/Kg dry	2.18	ND	53.8		40-140	16.6		30	
2,4,5-Trichlorophenol	1.18	0.44	mg/Kg dry	2.18	ND	54.4		30-130	15.1		30	
2,4,6-Trichlorophenol	1.29	0.44	mg/Kg dry	2.18	ND	59.3		30-130	16.7		30	
Surrogate: 2-Fluorophenol	*5.26*		mg/Kg dry	8.70		60.4		30-130				
Surrogate: Phenol-d6	*5.45*		mg/Kg dry	8.70		62.7		30-130				
Surrogate: Nitrobenzene-d5	*2.55*		mg/Kg dry	4.35		58.7		30-130				
Surrogate: 2-Fluorobiphenyl	*2.56*		mg/Kg dry	4.35		58.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.62*		mg/Kg dry	8.70		64.5		30-130				
Surrogate: p-Terphenyl-d14	*2.75*		mg/Kg dry	4.35		63.1		30-130				

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195084 - SW-846 3510C										
Blank (B195084-BLK1)				Prepared: 01/17/18 Analyzed: 01/19/18						
No TICs Found	0.0		µg/L							
Batch B195090 - SW-846 3546										
Blank (B195090-BLK1)				Prepared & Analyzed: 01/18/18						
Furan, 2,5-dimethyl-	0.56		mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B195094 - SW-846 3005A											
Blank (B195094-BLK1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Antimony	ND	2.0	µg/L								
Beryllium	ND	0.80	µg/L								
Cadmium	ND	1.0	µg/L								
Chromium	ND	2.0	µg/L								
Copper	ND	10	µg/L								
Iron	ND	100	µg/L								
Lead	ND	2.0	µg/L								
Nickel	ND	10	µg/L								
Selenium	ND	10	µg/L								
Silver	ND	1.0	µg/L								
Thallium	ND	0.40	µg/L								
Zinc	ND	20	µg/L								
LCS (B195094-BS1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Antimony	412	10	µg/L	500		82.4	80-120				
Beryllium	564	4.0	µg/L	500		113	80-120				
Cadmium	538	5.0	µg/L	500		108	80-120				
Chromium	525	10	µg/L	500		105	80-120				
Copper	1040	50	µg/L	1000		104	80-120				
Iron	4290	500	µg/L	4000		107	80-120				
Lead	563	10	µg/L	500		113	80-120				
Nickel	523	50	µg/L	500		105	80-120				
Selenium	530	50	µg/L	500		106	80-120				
Silver	506	5.0	µg/L	500		101	80-120				
Thallium	555	2.0	µg/L	500		111	80-120				
Zinc	1100	100	µg/L	1000		110	80-120				
LCS Dup (B195094-BSD1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Antimony	417	10	µg/L	500		83.3	80-120	1.09		20	
Beryllium	546	4.0	µg/L	500		109	80-120	3.13		20	
Cadmium	526	5.0	µg/L	500		105	80-120	2.32		20	
Chromium	507	10	µg/L	500		101	80-120	3.43		20	
Copper	1020	50	µg/L	1000		102	80-120	2.74		20	
Iron	4170	500	µg/L	4000		104	80-120	2.86		20	
Lead	545	10	µg/L	500		109	80-120	3.25		20	
Nickel	505	50	µg/L	500		101	80-120	3.34		20	
Selenium	520	50	µg/L	500		104	80-120	2.08		20	
Silver	495	5.0	µg/L	500		99.0	80-120	2.10		20	
Thallium	542	2.0	µg/L	500		108	80-120	2.26		20	
Zinc	1070	100	µg/L	1000		107	80-120	2.83		20	
Duplicate (B195094-DUP1)	**Source: 18A0479-01**			Prepared: 01/18/18 Analyzed: 01/19/18							
Antimony	1.18	2.0	µg/L		0.507			**79.9**	*	20	R-04, J
Beryllium	ND	0.80	µg/L		ND			NC		20	
Cadmium	ND	1.0	µg/L		ND			NC		20	
Chromium	ND	2.0	µg/L		ND			NC		20	
Copper	1.50	10	µg/L		ND			NC		20	J
Iron	89.0	100	µg/L		85.1			4.59		20	J
Lead	0.306	2.0	µg/L		ND			NC		20	J
Nickel	ND	10	µg/L		ND			NC		20	
Selenium	ND	10	µg/L		ND			NC		20	
Silver	ND	1.0	µg/L		ND			NC		20	
Thallium	ND	0.40	µg/L		ND			NC		20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195094 - SW-846 3005A											
Duplicate (B195094-DUP1)		**Source: 18A0479-01**		Prepared: 01/18/18 Analyzed: 01/19/18							
Zinc	ND	20	µg/L		ND				NC	20	
Matrix Spike (B195094-MS1)		**Source: 18A0479-01**		Prepared: 01/18/18 Analyzed: 01/19/18							
Antimony	453	10	µg/L	500	ND	90.6		75-125			
Beryllium	567	4.0	µg/L	500	ND	113		75-125			
Cadmium	539	5.0	µg/L	500	ND	108		75-125			
Chromium	522	10	µg/L	500	ND	104		75-125			
Copper	1040	50	µg/L	1000	ND	104		75-125			
Iron	4400	500	µg/L	4000	ND	110		75-125			
Lead	553	10	µg/L	500	ND	111		75-125			
Nickel	523	50	µg/L	500	ND	105		75-125			
Selenium	536	50	µg/L	500	ND	107		75-125			
Silver	360	5.0	µg/L	500	ND	**72.0**	*	75-125			MS-07
Thallium	551	2.0	µg/L	500	ND	110		75-125			
Zinc	1100	100	µg/L	1000	ND	110		75-125			
Batch B195110 - SW-846 7470A Prep											
Blank (B195110-BLK1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Mercury	ND	0.00010	mg/L								
LCS (B195110-BS1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Mercury	0.00193	0.00010	mg/L	0.00200		96.7		80-120			
LCS Dup (B195110-BSD1)				Prepared: 01/18/18 Analyzed: 01/19/18							
Mercury	0.00184	0.00010	mg/L	0.00200		91.8		80-120	5.26	20	
Duplicate (B195110-DUP1)		**Source: 18A0479-03**		Prepared: 01/18/18 Analyzed: 01/19/18							
Mercury	ND	0.00010	mg/L		ND				NC	20	
Matrix Spike (B195110-MS1)		**Source: 18A0479-03**		Prepared: 01/18/18 Analyzed: 01/19/18							
Mercury	0.00192	0.00010	mg/L	0.00200	ND	96.1		75-125			
Batch B195113 - SW-846 3050B											
Blank (B195113-BLK1)				Prepared: 01/18/18 Analyzed: 01/24/18							
Antimony	ND	2.7	mg/Kg wet								
Chromium	ND	6.2	mg/Kg wet								
Copper	ND	6.2	mg/Kg wet								
Iron	ND	12	mg/Kg wet								
Lead	ND	2.5	mg/Kg wet								
Manganese	ND	6.5	mg/Kg wet								
Nickel	ND	6.2	mg/Kg wet								
Silver	ND	0.11	mg/Kg wet								
Thallium	ND	0.080	mg/Kg wet								
Cadmium	ND	0.48	mg/Kg wet								

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B195113 - SW-846 3050B											
LCS (B195113-BS1)				Prepared: 01/18/18 Analyzed: 01/24/18							
Antimony	43.1	21	mg/Kg wet	65.1		66.3		3.8-212			
Chromium	80.0	49	mg/Kg wet	82.6		96.8		81.8-118.2			
Copper	182	49	mg/Kg wet	171		106		83.6-116.4			
Iron	12200	99	mg/Kg wet	14100		86.3		60.4-139.7			
Lead	108	20	mg/Kg wet	92.3		117		82.8-117			
Manganese	217	51	mg/Kg wet	222		97.8		82-118			
Nickel	142	49	mg/Kg wet	137		104		82.5-118.2			
Silver	44.9	0.87	mg/Kg wet	40.7		110		79.6-120.4			
Thallium	157	0.63	mg/Kg wet	153		102		81-119			
Cadmium	224	3.8	mg/Kg wet	193		116		82.4-117.6			
LCS Dup (B195113-BSD1)				Prepared: 01/18/18 Analyzed: 01/24/18							
Antimony	41.4	22	mg/Kg wet	65.1		63.6		3.8-212	4.03	30	
Chromium	74.3	51	mg/Kg wet	82.6		90.0		81.8-118.2	7.33	30	
Copper	168	51	mg/Kg wet	171		98.1		83.6-116.4	7.87	30	
Iron	11300	100	mg/Kg wet	14100		80.0		60.4-139.7	7.47	30	
Lead	96.4	20	mg/Kg wet	92.3		104		82.8-117	11.4	30	
Manganese	216	53	mg/Kg wet	222		97.1		82-118	0.676	30	
Nickel	133	51	mg/Kg wet	137		97.0		82.5-118.2	6.88	30	
Silver	42.3	0.89	mg/Kg wet	40.7		104		79.6-120.4	6.06	30	
Thallium	145	0.65	mg/Kg wet	153		95.0		81-119	7.39	30	
Cadmium	212	3.9	mg/Kg wet	193		110		82.4-117.6	5.64	30	
Duplicate (B195113-DUP1)		**Source: 18A0479-10**		Prepared: 01/18/18 Analyzed: 01/24/18							
Antimony	ND	2.3	mg/Kg dry		ND				NC	35	
Chromium	4.15	5.4	mg/Kg dry		4.43				6.40	35	J
Copper	1.56	5.4	mg/Kg dry		1.71				9.02	35	J
Iron	1950	11	mg/Kg dry		2180				11.3	35	
Lead	3.03	2.2	mg/Kg dry		2.77				9.15	35	
Manganese	6.38	5.6	mg/Kg dry		7.19				12.0	35	
Nickel	1.13	5.4	mg/Kg dry		1.19				5.17	35	J
Silver	0.00773	0.096	mg/Kg dry		0.00928				18.2	35	J
Thallium	0.0304	0.069	mg/Kg dry		0.0322				5.80	35	J
Cadmium	ND	0.41	mg/Kg dry		ND				NC	35	
Matrix Spike (B195113-MS1)		**Source: 18A0479-10**		Prepared: 01/18/18 Analyzed: 01/24/18							
Antimony	12.1	9.4	mg/Kg dry	21.7	ND	**56.0**	*	75-125			MS-07
Chromium	24.1	22	mg/Kg dry	21.7	4.43	90.7		75-125			
Copper	44.2	22	mg/Kg dry	43.4	1.71	98.0		75-125			
Iron	1960	43	mg/Kg dry	173	2180	**-126**	*	75-125			MS-19
Lead	23.7	8.7	mg/Kg dry	21.7	2.77	96.7		75-125			
Manganese	26.2	23	mg/Kg dry	21.7	7.19	87.8		75-125			
Nickel	22.1	22	mg/Kg dry	21.7	1.19	96.5		75-125			
Silver	21.7	0.38	mg/Kg dry	21.7	ND	100		75-125			
Thallium	20.9	0.28	mg/Kg dry	21.7	0.0322	96.2		75-125			
Cadmium	23.4	1.6	mg/Kg dry	21.7	ND	108		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195200 - SW-846 7471										
Blank (B195200-BLK1)				Prepared & Analyzed: 01/22/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B195200-BS1)				Prepared & Analyzed: 01/22/18						
Mercury	10.6	1.9	mg/Kg wet	9.36		113	73.7-126.3			
LCS Dup (B195200-BSD1)				Prepared & Analyzed: 01/22/18						
Mercury	9.61	2.0	mg/Kg wet	9.36		103	73.7-126.3	9.55	30	
Duplicate (B195200-DUP1)		**Source: 18A0479-10RE1**		Prepared & Analyzed: 01/22/18						
Mercury	ND	0.032	mg/Kg dry		ND			NC	35	
Matrix Spike (B195200-MS1)		**Source: 18A0479-10RE1**		Prepared & Analyzed: 01/22/18						
Mercury	0.205	0.032	mg/Kg dry	0.211	ND	97.3	75-125			
Batch B195306 - SW-846 3005A										
Blank (B195306-BLK1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Arsenic	ND	0.80	µg/L							
Manganese	ND	2.0	µg/L							
LCS (B195306-BS1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Arsenic	544	4.0	µg/L	500		109	80-120			
Manganese	496	10	µg/L	500		99.3	80-120			
LCS Dup (B195306-BSD1)				Prepared: 01/22/18 Analyzed: 01/23/18						
Arsenic	533	4.0	µg/L	500		107	80-120	1.98	20	
Manganese	486	10	µg/L	500		97.2	80-120	2.06	20	
Duplicate (B195306-DUP1)		**Source: 18A0479-04RE1**		Prepared: 01/22/18 Analyzed: 01/23/18						
Arsenic	0.776	0.80	µg/L		0.807			3.89	20	J
Manganese	133	2.0	µg/L		133			0.324	20	
Matrix Spike (B195306-MS1)		**Source: 18A0479-04RE1**		Prepared: 01/22/18 Analyzed: 01/23/18						
Arsenic	531	4.0	µg/L	500	ND	106	75-125			
Manganese	615	10	µg/L	500	133	96.3	75-125			
Batch B195469 - SW-846 3050B										
Blank (B195469-BLK1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Arsenic	0.17	0.17	mg/Kg wet							J
Beryllium	ND	0.23	mg/Kg wet							
Selenium	ND	0.70	mg/Kg wet							
Zinc	ND	8.3	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195469 - SW-846 3050B										
LCS (B195469-BS1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Arsenic	154	2.0	mg/Kg wet	147		105	83-117			
Beryllium	53.5	2.7	mg/Kg wet	53.4		100	82.8-117.2			
Selenium	197	8.4	mg/Kg wet	187		105	79.1-121.4			
Zinc	195	100	mg/Kg wet	189		103	79.9-120.1			
LCS Dup (B195469-BSD1)				Prepared: 01/24/18 Analyzed: 01/25/18						
Arsenic	149	2.1	mg/Kg wet	147		101	83-117	3.50	30	
Beryllium	50.8	2.8	mg/Kg wet	53.4		95.2	82.8-117.2	5.12	30	
Selenium	186	8.7	mg/Kg wet	187		99.6	79.1-121.4	5.65	30	
Zinc	186	100	mg/Kg wet	189		98.4	79.9-120.1	4.58	30	
Duplicate (B195469-DUP1)		**Source: 18A0479-11RE1**		Prepared: 01/24/18 Analyzed: 01/25/18						
Arsenic	1.09	0.29	mg/Kg dry		0.982			10.1	35	
Beryllium	0.983	0.39	mg/Kg dry		0.805			19.9	35	
Selenium	0.494	1.2	mg/Kg dry		0.401			20.8	35	J
Zinc	31.7	14	mg/Kg dry		31.4			0.947	35	
Matrix Spike (B195469-MS1)		**Source: 18A0479-11RE1**		Prepared: 01/24/18 Analyzed: 01/25/18						
Arsenic	32.6	1.2	mg/Kg dry	28.8	0.982	109	75-125			
Beryllium	34.4	1.6	mg/Kg dry	28.8	0.805	117	75-125			
Selenium	34.0	4.8	mg/Kg dry	28.8	0.401	116	75-125			
Zinc	83.4	58	mg/Kg dry	57.7	31.4	90.2	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195103 - % Solids										
Duplicate (B195103-DUP6)		**Source: 18A0479-14**		Prepared: 01/18/18 Analyzed: 01/19/18						
% Solids	32.7		% Wt		35.6			8.53	20	
Batch B195161 - SM 21-22 4500 NO3 F										
Blank (B195161-BLK1)				Prepared & Analyzed: 01/22/18						
Nitrate as N	ND	0.050	mg/L							
LCS (B195161-BS1)				Prepared & Analyzed: 01/22/18						
Nitrate as N	2.5		mg/L	2.50		98.8	86.3-114			
LCS Dup (B195161-BSD1)				Prepared & Analyzed: 01/22/18						
Nitrate as N	2.4		mg/L	2.50		97.6	86.3-114	1.22	6.73	
Batch B195201 - ASTM D516-07 Modified										
Blank (B195201-BLK1)				Prepared & Analyzed: 01/19/18						
Sulfate	ND	200	mg/Kg wet							
LCS (B195201-BS1)				Prepared & Analyzed: 01/19/18						
Sulfate	1900	200	mg/Kg wet	2000		94.2	87.7-116			
LCS Dup (B195201-BSD1)				Prepared & Analyzed: 01/19/18						
Sulfate	1900	200	mg/Kg wet	2000		96.4	87.7-116	2.26	5.27	
Duplicate (B195201-DUP1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/19/18						
Sulfate	230	250	mg/Kg dry		240			4.07	13.3	J
Matrix Spike (B195201-MS1)		**Source: 18A0479-10**		Prepared & Analyzed: 01/19/18						
Sulfate	2600	250	mg/Kg dry	2540	240	91.7	47.6-131			
Batch B195203 - ASTM D516-07										
Blank (B195203-BLK1)				Prepared & Analyzed: 01/19/18						
Sulfate	ND	2.0	mg/L							
LCS (B195203-BS1)				Prepared & Analyzed: 01/19/18						
Sulfate	19	2.0	mg/L	20.0		94.2	87.7-116			
LCS Dup (B195203-BSD1)				Prepared & Analyzed: 01/19/18						
Sulfate	19	2.0	mg/L	20.0		96.4	87.7-116	2.26	5.27	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195203 - ASTM D516-07										
Duplicate (B195203-DUP1)		**Source: 18A0479-01**		Prepared & Analyzed: 01/19/18						
Sulfate	11	2.0	mg/L		10			5.20	13.3	
Matrix Spike (B195203-MS1)		**Source: 18A0479-01**		Prepared & Analyzed: 01/19/18						
Sulfate	30	2.0	mg/L	20.0	10	99.2	47.6-131			
Batch B195223 - SM19-22 4500 NH3 C										
Blank (B195223-BLK1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	ND	0.30	mg/L							
LCS (B195223-BS1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	5.0	0.30	mg/L	5.00		100	85.2-110			
LCS Dup (B195223-BSD1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	5.0	0.30	mg/L	5.00		100	85.2-110	0.00	8.64	
Batch B195224 - SM21-22 4500 NH3 C Modified										
Blank (B195224-BLK1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B195224-BS1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	500	30	mg/Kg wet	500		100	85.2-110			
LCS Dup (B195224-BSD1)				Prepared: 01/20/18 Analyzed: 01/23/18						
Ammonia as N	500	30	mg/Kg wet	500		100	85.2-110	0.00	8.64	
Batch B195364 - SM 21-22 4500 NO3 F Modified										
Blank (B195364-BLK1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B195364-BS1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	2.4		mg/Kg	2.50		96.4	86.3-114			
LCS Dup (B195364-BSD1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	2.5		mg/Kg	2.50		98.4	86.3-114	2.05	6.73	
Batch B195365 - SM 21-22 4500 NO3 F										
Blank (B195365-BLK1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	ND	0.050	mg/L							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B195365 - SM 21-22 4500 NO3 F										
LCS (B195365-BS1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	2.4		mg/L	2.50		96.4	86.3-114			
LCS Dup (B195365-BSD1)				Prepared & Analyzed: 01/23/18						
Nitrate as N	2.5		mg/L	2.50		98.4	86.3-114	2.05	6.73	
Duplicate (B195365-DUP1)		**Source: 18A0479-02**		Prepared & Analyzed: 01/23/18						
Nitrate as N	ND	0.050	mg/L		ND			NC	20.3	
Matrix Spike (B195365-MS1)		**Source: 18A0479-02**		Prepared & Analyzed: 01/23/18						
Nitrate as N	3.8	0.050	mg/L	4.00	ND	94.2	69.1-117			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
ASTM D516-07 in Water	
Sulfate	NY,NH,MA,CT,RI,VA,NC
SM 21-22 4500 NO3 F in Water	
Nitrate as N	CT,MA,NH,NY,RI,ME,NC,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW-846 6020A-B in Soil	
Antimony	NY,NC
Arsenic	NY,VA,NH,NC
Beryllium	VA,NY,NH,NC
Chromium	NY,NC
Copper	NY,NC
Iron	NY,NC
Lead	NY,NC
Manganese	NY,NC
Nickel	NY,NC
Selenium	NY,VA,NH,NC
Silver	NY,NC
Thallium	VA,NY,NH,NC
Zinc	NY,NC
Cadmium	NY,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Acrylonitrile	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Water	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

18A0479

con-test ANALYTICAL LABORATORY

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http://www.contestlabs.com

Doc # 379 Rev 1_03242017

CHAIN OF CUSTODY RECORD (North Carolina)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:
Address: F&R / 310 HUBERT ST. RALEIGH
Phone: 919-828-3441 / 919-630-1945

Project Name:
Project Location: PRINCEVILLE DUMP
Project Number: 66U-0300-0001
Project Manager: JOHN PALMER
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: J. PALMER

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: (STANDARD)

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: JPALMER@F&R-DR.COM
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	8260 + TICS	8270 + TICS	1,4 DIOXANE 8260/SIM	14 METALS	MERCURY	AMMONIA	NITRATE + SULFATE					# of Containers	[2] Preservation Code	[3] Container Code
01	SW-1	1/16/18 1205			X			X	X	X	X	X	X	X							
02	SW-2	1/16/18 1225																			
03	SW-3	1/16/18 1125																			
04	SW-4	1/16/18 1310																			
05	SW-5	1/16/18 1405																			
06	SW-6	1/16/18 1445			X			X	X	X	X	X	X	X							
07	Trip Blank 1	1/16/18						X													
08	Trip Blank 2	1/16/18						X													
09	Trip Blank 3	1/16/18						X													
10																					

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: STANDARD TURN / RUN TICS
48 HR HOLD!

Run SD-Dup & SW-Dup for all analyses per John P.

-KKM 1/18/18

) indicate possible sample concentration
c Code column above:
- Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 1/16/18 1720
Received by: (signature) Brent Bodle	Date/Time: 1/16/18 1720
Relinquished by: (signature) Brent Bodle	Date/Time: 1/16/18 1830
...ved by: (signature) 2.8	Date/Time: 10:52 1.17.18
...quished by: (signature)	Date/Time:
...ved by: (signature)	Date/Time:

North Carolina Detection Limit Requirements
☐ 2L
☐ GWPC
☐ SWSL
☐ IHSB
☐ MSCC

Other:

Program Information
☐ DSCA ☐ UST/Trust Fund
☐ SWS Landfill ☐ REC
☑ IHSB Orphaned Landfill
☐ State Lead
☐ Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality
☐ Federal ☐ Brownfield
☐ City ☐ School

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

con-test ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD (North Carolina)

39 Spruce Street
East Longmeadow, MA 01028

Company Name: F&R
Address: 310 Hubert St. Raleigh
Phone: 919-828-3441 / 919-630-1945
Project Name:
Project Location: Princeville Dump
Project Number: 66U-0300-0001
Project Manager: John Palmer
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: J. Palmer

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: (standard)

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: JPalmer@fandr.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260 + TICS	8270 + TICS	1,4 Dioxane 8260/SIM	14 Metals	Mercury	Ammonia	NITRATE + SULFATE					# of Containers
10	SD-1	1/16/18 1210			X			X	X	X	X	X	X	X					
11	SD-2	1/16/18 1230			X			X	X	X	X	X	X	X					
12	SD-3	1/16/18 1130																	
13	SD-4	1/16/18 1315																	
14	SD-5	1/16/18 1410																	
15	SD-6	1/16/18 1450			X			X	X	X	X	X	X	X					
16	Trip Blank 1	1/16/18						X											
17	Trip Blank 2	1/16/18						X											

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: Standard Turn / Run TICS
48 Hr Hold!

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 1/16/18 1720
Received by: (signature)	Date/Time: 1/16/18 1720
Relinquished by: (signature)	Date/Time: 1/16/18 1830
Received by: (signature)	Date/Time: 1.17.18 10:52
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

North Carolina Detection Limit Requirements
☐ 2L
☐ GWPC
☐ SWSL
☐ IHSB
☐ MSCC
Other:

Program Information
☐ DSCA ☐ UST/Trust Fund
☐ SWS Landfill ☐ REC
☑ IHSB Orphaned Landfill
☐ State Lead
☐ Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality
☐ Federal ☐ Brownfield
☐ City ☐ School

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

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FedEx® Tracking

771232302081

Ship date:		Actual delivery:
Tue 1/16/2018	**Delivered**	**Wed 1/17/2018 10:52 am**
Raleigh, NC US	*Signed for by: P.PBLAKE*	EAST LONGMEADOW, MA US

6 Piece shipment

Travel History

Date/Time	Activity	Location
1/17/2018 - Wednesday		
10:52 am	Delivered	EAST LONGMEADOW, MA
8:58 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:48 am	At local FedEx facility	WINDSOR LOCKS, CT
7:34 am	At destination sort facility	EAST GRANBY, CT
5:50 am	Departed FedEx location	INDIANAPOLIS, IN
12:32 am	Arrived at FedEx location	INDIANAPOLIS, IN
1/16/2018 - Tuesday		
8:55 pm	Left FedEx origin facility	DURHAM, NC
6:28 pm	Picked up	RALEIGH, NC
5:15 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771232302081	**Service**	FedEx Priority Overnight
Master tracking number	771232302574	**Weight**	15 lbs / 6.8 kgs
Dimensions	24x13x14 in.	**Delivered To**	Shipping/Receiving
Total pieces	6	**Total shipment weight**	15 lbs / 6.8 kgs
Terms	Third Party	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge
Standard transit	1/17/2018 by 10:30 am		

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client F+R

Received By PB Date 1.17.18 Time 10:52

How were the samples received? In Cooler T - 5 No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.8, 2.7, 2.3, 2.4, 2.3
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? F
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis ID's T Sampler Name T
Project T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? T Who was notified? Lucy
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? T On COC? T
Do all samples have the proper pH? Acid T Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	14	1 Liter Plastic		16 oz Amb.	
HCL-	45	500 mL Amb.		500 mL Plastic	14	8oz Amb/Clear	7
Meoh-	9	250 mL Amb.		250 mL Plastic	7	4oz Amb/Clear	7
Bisulfate-	32	Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

2 Extra Samples Received, Not on COC
Water Sample "SW-Dup" } added as last 2 samples on W.O.
Soil Sample "SD-Dup"

Samples ph@1

Village Mart

GMA

4300 Sapphire Court, Suite 100
Greenville, North Carolina 27834
Telephone: (252) 758-3310
Facsimile: (252) 758-8835
www.gma-nc.com

Groundwater Management Associates, Inc.

RECEIVED
SEP 15 2008
RALEIGH

September 11, 2008

Mr. Harry Messenger
North Carolina Department of Environment and Natural Resources
Division of Waste Mangement, UST Section
Raleigh Regional Office
3800 Barrett Drive
Raleigh, North Carolina 27609

Re: Phase I Limited Site Assessment
Village Mart, 607 North Ridgewood Road, Tarboro, Edgecombe County
UST Incident #: 33370 Facility ID Number: 0-034838

Dear Mr. Messenger:

Enclosed is one copy of a Phase I Limited Site Assessment prepared by Groundwater Management Associates, Inc. on behalf of Mr. H.M., Jr. and Mrs. Shirley Etheridge for the above referenced site. If you have any questions or comments about the enclosed report, please do not hesitate to contact me at (252) 758-3310.

Sincerely,
GMA

Kyle B. Quick

Kyle B. Quick, P.G.
Project Hydrogeologist

Enclosure: Phase I Limited Site Assessment

cc: Mr. Charles Roundtree Attorney for Mr. H.M. Jr., and Mrs. Shirley Etheridge

Z/109401-Village Mart/LSAlet2.doc

RECEIVED
SEP 15 2008
DENR RALEIGH REGIONAL OFFICE

PHASE I LIMITED SITE ASSESSMENT

VILLAGE MART
607 NORTH RIDGEWOOD ROAD
TARBORO, EDGECOMBE COUNTY

UST INCIDENT #: 33370
FACILITY ID #: 0-034838

GMA Project Number: 109401

Latitude (approx.) = N 35.8739°
Longitude (approx.) = W 77.5251°

PREPARED FOR:

H.M., Jr., and Shirley Etheridge
607 North Carolina Highway 33 East
Tarboro, North Carolina 27886
Telephone: (252) 823-4948

PREPARED BY:

Groundwater Management Associates, Inc.
4300 Sapphire Court, Suite 100
Greenville, North Carolina 27834
Telephone: (252) 758-3310
Facsimile: (252) 758-8835

NORTH CAROLINA LICENSED SEAL 2059 GEOLOGIST KYLE BENJAMIN QUICK 9/11/2008

September 11, 2008

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LIMITED SITE ASSESSMENT (PHASE I)

I. GENERAL INFORMATION

Part A – Site Identification

Date of Report: September 11, 2008
Facility I.D. Number: 0-034838 **UST Incident Number (if known):** 33370
Site Name: Village Mart
Site Location: 607 North Ridgewood Road
Nearest City/Town: Tarboro **ZIP:** 27886 **County:** Edgecombe

UST Owner: H.M. Jr., and Shirley Etheridge
Address: 607 North Carolina Highway 33 East, Tarboro, North Carolina 27886
Phone: (252) 823-4948

UST Operator: H.M. Jr., and Shirley Etheridge
Address: 607 North Carolina Highway 33 East, Tarboro, North Carolina 27886
Phone: (252) 823-4948

Property Owner: Ernest H. Holt, II
Address: Post Office Box 30220, Greenville, North Carolina 27833
Phone: (252) 341-0720

Property Occupant: unoccupied
Address: 607 North Ridgewood Road, Tarboro, North Carolina 27886
Phone: N/A

Consultant/Contractor: Groundwater Management Associates, Inc. (GMA)
Address: 4300 Sapphire Court, Suite 100, Greenville, North Carolina 27834
Phone: (252) 758-3310

North Carolina Certified Laboratory: Prism Laboratories, Inc. **State Certification #:** 402
Address: 449 Springbrook Road, P.O. Box 240543, Charlotte, North Carolina 28224-0543
Telephone: (800) 529-6364

Part B - Release Information

Date Discovered: On August 14-15, 2007, one 2000-gallon kerosene underground storage tank (UST) was removed and one 12,000-gallon gasoline UST was closed in-place at the Village Mart site located at 607 North Ridgewood Road in Tarboro, Edgecombe County (Figures 1, 2, and 3). The North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM), UST Section provided approval for the in-place closure of the gasoline UST on July 2, 2007. Tank closure procedures were completed by Remediation Equipment Specialists, Inc., (RES), and supervised by Groundwater Management Associates,

Inc., (GMA). Groundwater was encountered approximately 5.0 feet below land surface (BLS) in the kerosene UST excavation on August 14, 2007, and the depth to groundwater was measured to be approximately 4.5 feet BLS in an existing permit compliance observation well (OW3) located adjacent to the gasoline UST (Figure 4) on August 15, 2007. Because of the high groundwater conditions, soil samples were collected above the suspected water table along the perimeter of the gasoline and kerosene USTs, and from beneath the product lines and dispensers to investigate if a release had occurred. Analytical results confirm the presence of diesel-range or gasoline-range total petroleum hydrocarbons (TPH) above the Reportable Concentration for soil (10 mg/kg) in soil samples collected beneath the kerosene and gasoline dispensers (SS8, SS32, and SS33), and one soil sample collected along the side of the 12,000-gallon gasoline UST (SS19, Figure 4) (GMA, 2007).

Latitude: N 35.8739° **Longitude:** W 77.5251°

Estimated Quantity of Release: The quantity of the release is unknown.

Cause of Release: The release appears to have been caused by deterioration of the dispensers and the connection from a pump to a product line associated with the compartmentalized 12,000-gallon gasoline UST (GMA, 2007).

Source of Release (e.g., Piping/UST): The source of the release appears to be from the dispensers and the connection between the product line and pump adjacent to the collection location of soil sample SS19 (Figure 4) (GMA, 2007).

Sizes and contents of UST system(s) from which the release occurred: The Village Mart property previously maintained one 2000-gallon kerosene UST and one compartmentalized 12,000-gallon gasoline UST. The date of last use of the USTs is unknown. The kerosene UST was removed on August 14, 2007, and procedures to close the gasoline UST in-place were completed on August 15, 2007 (GMA, 2007).

Part C - Report Certification

I, Kyle B. Quick, a Licensed Geologist for Groundwater Management Associates, Inc. (GMA), do certify that the information contained in this report is correct and accurate to the best of my knowledge. GMA is a professional corporation licensed to practice geology (C-121) and engineering (C-0854) in the state of North Carolina.

Kyle B Quick

Kyle B. Quick, P.G.
Project Hydrogeologist

NORTH CAROLINA LICENSED SEAL 2059 GEOLOGIST KYLE BENJAMIN QUICK
9/11/2008

II. RISK CHARACTERIZATION

Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts
High Risk

1. Has the discharge or release contaminated any water supply-well including any used for non-drinking purposes? **YES/NO**

2. Is a water-supply well used for drinking water located within 1,000 feet of the source area the discharge or release? **YES/NO**

Two active potable wells are located within 1000 feet of the source area. One of the wells is located approximately 750 feet east of the source area (parcel 6382), and the other well is located approximately 950 feet east of the source area. The active potable well located at 243 North Carolina Highway 33 East (parcel 6382) has been inactive for approximately two to three months since the store located at the property has been closed. The well is used to supply water to the restrooms and an icemaker in the store. Reportedly, the store will be reopened in the future once the property is leased again or once the current tenant decides to reopen the store (personal communication, Rosa Exum, August 2008).

3. Is a water-supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release or discharge? **YES/NO**

4. Does groundwater within 500 feet of the source area of the discharge or release have the potential for future use in that there is no other source of water supply other than the groundwater? **YES/NO**

5. Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety, or to the environment? **YES/NO**

6. Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment? **YES/NO**

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the discharge or release? **YES/NO**

Ditches along the southeast and northwest property boundaries of the site contained saturated soil at their bases during tank closure procedures on August 14-15, 2008, and during the receptor survey performed on August 12, 2008. It appears that these ditches may contain water intermittently. The ditch along the northwest property boundary is located approximately 75 feet

northwest of the former kerosene dispenser. The ditch along the southeast property boundary is located approximately 45 feet southeast of the 12,000-gallon gasoline UST (Figures 2, 3, and 4).

If yes, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10?
YES/NO

8. Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)?
YES/NO

9. Is the discharge or release located in the Coastal Plain Physiographic Region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? **YES/NO**
According to the Geologic Map of North Carolina (NCGS, 1985), the site (Figure 1) is located in the Coastal Plain Physiographic Province.

10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels established by the Department? **YES/NO**

Part II - Land Use
Property Containing Source Area of Discharge or Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **YES/NO**

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? **YES/NO**

3. Does the property contain a commercial (e.g. retail, warehouse, office/business space, etc.) or industrial (e.g. manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES/NO**
The site previously contained a convenience store, but the owner of the property is currently using the on-site building for storage purposes (Ernest Holt personal communication, August 2008).

4. Do children visit the property? **YES/NO**
It is unlikely that children visit the property because it is being used by Mr. Ernest Holt as storage space.

5. Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both) **YES/NO**
Access to the property is restricted consistent with its former use as a convenience store, and its current use as a personal storage facility.

6. Do pavement, buildings, or other structures cap the contaminated soil? **YES/NO**
Contaminated soil beneath the former dispenser island is capped by concrete, but contaminated soil in the vicinity of the former 12,000-gallon gasoline UST is not capped (Figures 3 and 4).

If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?
An impermeable structure will be needed to replace the concrete that caps the former dispenser island if it is removed (Figures 3 and 4).

7. What is the zoning status of the property?
The zoning status of the property is not available on the Edgecombe County website, but the site was previously used for commercial purposes, but is currently used for storage purposes.

8. Is the use of the property likely to change in the next 20 years? **YES/NO**
The property is currently being used for storage by the property owner, but it is likely that the property will be redeveloped for commercial purposes in the near future.

Property Surrounding Source Area of Discharge or Release

The questions below pertain to the area within 1500 feet of the source area of the discharge or release (excludes property containing source area of the release):

1. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)?
The Curtis Whitehead residence is located approximately 460 feet northwest of the site at 624 North Ridgewood Road.

2. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?
Lakeside Community Worship Center is located approximately 1050 feet northeast of the site along North Carolina Highway 33 East (parcel 9967, Figure 2).

3. What is the zoning status of properties in the surrounding area?
The zoning statuses of properties in the surrounding area are not available on the Edgecombe County website, but these properties are used for primarily for residential and commercial purposes, or are undeveloped.

4. Briefly characterize the use and activities of the land in the surrounding area.
Properties in the surrounding area are primarily used for residential and commercial purposes, or are undeveloped.

III. RECEPTOR INFORMATION

1. Water-Supply Wells GMA completed a survey within a radius of 1500 feet around the site to identify water-supply wells. GMA interviewed local residents and searched for water meters and well houses on foot and by vehicle. GMA also mailed two water-supply questionnaires to property owners suspected of having water-supply wells, but the questionnaires were not returned. Finally, GMA contacted the Edgecombe County Water and Sewer Department to verify the connection of public water to residences that GMA was unable to contact the owners.

No water-supply wells were identified within 250 feet of the source area. The closest well is an inactive well that is located approximately 490 feet east of the source area, at.266 North Carolina Highway 33 East (parcel 3015). Two active potable wells, two active nonpotable wells, and one well of unknown status are located between 500 and 1000 feet of the source area. One active potable well is located at 243 North Carolina Highway 33 East (parcel 6382), and has been inactive for approximately two to three months since the store located at the property has been closed. The well is used to supply water to the restrooms and an icemaker in the store. Reportedly, the store will be reopened in the future once the property is leased again or once the current tenant decides to reopen the store (personal communication, Rosa Exum, August 2008). The other active potable well is located at 81 Concrete Road (parcel 8388). The well of unknown status is located at 572 North Ridgewood Road (parcel 2806), and is assumed to be used for nonpotable purposes or is inactive. The Edgecombe County Water and Sewer Department verified that this residence is connected to public water.

Three active potable wells, two inactive wells, and two wells of unknown status are located between 1000 and 1500 feet of the source area. GMA was unable to contact the owner of the well located at 97 Concrete Road (parcel 9471), but the Edgecombe County Water and Sewer Department stated that public water service is not connected to this residence. It is assumed that this well is used for potable purposes. The other two active potable wells are located at 127 North Carolina Highway 33 East (parcel 9790) and 54 North Carolina Highway 33 East (parcel 5992), respectively. The locations of each of the water supply wells are shown on Figure 2. Owners of properties with water-supply wells and the status of their wells are listed in Table 1.

2. Public Water Supplies
Are public water supplies available within 1,500 feet of the source area of the release?
YES/NO

Potable water provided by the Edgecombe County Water and Sewer Department is available to all properties in the area, but not all residences in the area are connected for service.

3. Surface Water Ditches along the southeast and northwest property boundaries of the site contained saturated soil at their bases during tank closure procedures on August 14-15, 2008, and during the receptor survey performed on August 12, 2008. It appears that these ditches may contain water intermittently. The ditch along the northwest property boundary is located approximately 75 feet northwest of the former kerosene dispenser. The ditch along the southeast property boundary is located approximately 45 feet southeast of the 12,000-gallon gasoline UST. A culvert with standing water is present on the southwest adjacent property, located across North Ridgewood Road from the site. Two ponds are also present along the western side of Highway 64, located approximately 1050 feet southwest and 1070 feet west of the site, respectively (Figures 2, 3, and 4).

4. Wellhead Protection Areas The site does not lie within a designated wellhead protection area according to the NCDENR Public Water Supply Section website.

5. Deep Aquifers in the Coastal Plain Physiographic Region The site (Figure 1) is located in the Coastal Plain Physiographic Province (NCGS, 1985), and is underlain by the Tertiary-age Yorktown Formation, which consists of fossiliferous sands and clays.. The site is underlain by the Yorktown aquifer, which consists of the Tertiary-age Yorktown Formation, and the Upper Cape Fear aquifer, which consists of the Cretaceous-age Cape Fear Formation, and their associated confining layers. "The opportunity for exchange between the Yorktown aquifer and underlying aquifers exists where these aquifers subcrop beneath the Yorktown aquifer. Downward leakage from the Yorktown aquifer exists where heads of the Yorktown aquifer are higher than the subcropping aquifers. Recharge to the Upper Cape Fear aquifer is from downward percolation of water through the overlying aquifers and confining units, primarily in interstream areas along the western limit of the aquifer."(Winner and Coble, 1989)

The Old Sparta, NCDENR, Division of Water Resource (DWR) Monitoring Well Station (K 26M) is located approximately six miles south of the Village Mart site. Water levels collected from January 2003 to January 2008 at the Old Sparta Monitoring Well Station indicate that the site lies in an area where the Upper Cape Fear aquifer receives recharge from the overlying Surficial/Yorktown aquifer(s).

6. Subsurface Structures There are subsurface water, cable, electricity, and telephone lines that run throughout the area. Basements were not identified at the site or in the surrounding area.

7. Land Use The site is located outside of the Princeville City limits. Properties in the surrounding area are primarily used for residential and commercial purposes, or are undeveloped.

8. Property Owners and Occupants Owners of property located adjacent to the site and properties that contain water-supply wells (Figure 2) are identified in Table 1.

IV. SITE GEOLOGY AND HYDROGEOLOGY

The site (Figure 1) is located in the Coastal Plain Physiographic Province according to the Geologic Map of North Carolina (NCGS, 1985). Site stratigraphy near the former kerosene and gasoline USTs was determined during the installation of monitoring wells MW1 and MW2 (Figure 4). Descriptions of the sediments encountered within the monitoring well boreholes are summarized below.

Monitoring Well MW1

Depth (Feet BLS)	General Description
0.0 – 9.0	tan, silty, fine to coarse SAND (backfill)
9.0 – 12.0	tan brown, silty, fine to medium SAND
12.0 – 15.0+	pale green, fine sandy SILT, with minor amounts of white mica

Monitoring Well MW2

Depth (Feet BLS)	General Description
0.0 – 2.0	tan, silty, fine to medium SAND
2.0 – 3.0	brown, slightly clayey, fine to medium SAND
3.0 – 3.5	dark brown, organic, SILT
3.5 – 6.0	tan brown, silty, fine to medium SAND
6.0 – 11.5	brown, silty, fine to medium SAND, with thin clay layers
11.5 – 15.0	brown, silty, medium to coarse SAND
15.0 - 16.0+	pale green, fine sandy SILT, with minor amounts of white mica

The static water levels in monitoring wells MW1 and MW2 were approximately 5.5 feet BLS and 3.9 feet BLS, respectively, on August 20, 2007. The groundwater-flow direction and the horizontal (and vertical) hydraulic gradients cannot be determined because only two monitoring wells were available to collect water-level measurments. Due to the proximity of the site to the Tar River, it is likely that groundwater in the surficial aquifer migrates to the west-southwest towards the Tar River (Figure 1).

V. SAMPLING RESULTS

On May 22, 2007, CBM Environmental Services, Inc., (CBM) installed two temporary monitoring wells at the Village Mart site. Monitoring wells TMW-1 and TMW-2 were installed adjacent to the 12,000-gallon gasoline UST and between the 2000-gallon kerosene UST and the gasoline dispenser island, respectively (Figure 4). CBM collected groundwater samples from each monitoring well that same day, and submitted the samples for analysis by EPA Method 624. No detectable concentrations of requested method constitutes were reported in the groundwater samples collected from TMW-1 and TMW-2 (CBM, 2007).

On August 14-15, 2007, one 2000-gallon kerosene UST was removed and one 12,000-gallon gasoline UST was closed in-place at the Village Mart site. Groundwater was encountered approximately 5.0 feet below land surface (BLS) in the kerosene UST excavation on August 14, 2007. The depth to groundwater was measured to be approximately 4.5 feet BLS in an existing permit compliance observation well (OW3) located adjacent to the gasoline UST (Figure 4) on August 15, 2007. Soil samples were collected above the suspected water table along the perimeter of the gasoline and kerosene USTs (Tank 1and Tank 2, respectively), and beneath the former product lines and dispensers (Figure 4). Soil samples SS1 through SS8 were submitted to Prism for analysis of diesel-range and gasoline-range TPH by test method SW846-8015B using sample preparation methods 3550 and 5030, respectively. Soil samples SS9 through SS33 were submitted to Prism for analysis of gasoline-range TPH by test method SW846-8015B using sample preparation method 5030. Soil samples SS8, SS19, SS30, and SS32 were also submitted for compound specific analysis because these samples contained higher photoionization detector (PID) measurements than other samples, and to further characterize possible contamination at the site. Soil sample SS8 was submitted to Prism for analysis by EPA Methods 8260 and 8270, and MADEP Methods EPH and VPH. Soil samples SS19, SS30, and SS32 were submitted to Prism for analysis by EPA Method 8260 and MADEP Method VPH (GMA, 2007).

Soil samples SS1 through SS6 were collected from along the perimeter of the 2000-gallon kerosene UST (Figure 4). No petroleum-related contamination was detected in these samples. Soil samples SS7 and SS8 were collected from beneath the kerosene product line and the kerosene dispenser, respectively (Figure 4). No petroleum-related contamination was detected in soil sample SS7, but analytical results confirm the presence of diesel-range TPH exceeding the Reportable Concentration for soil (10 mg/kg) in soil sample SS8. Based upon PID measurements collected in the field, soil sample SS8 was also submitted to Prism for analysis by EPA Methods 8260 and 8270, and MADEP Methods EPH and VPH. Analytical results confirm the presence of eight petroleum-related contaminants in soil sample SS8, but none of the concentrations exceeded the Soil-to-Groundwater or the Residential maximum soil contaminant concentration (MSCC) (GMA, 2007).

Soil samples SS9 through SS20 were collected from along the perimeter of the compartmentalized 12,000-gallon gasoline UST (Figure 3). No gasoline related contamination was detected in soil samples SS9 through SS18 and SS20, but analytical results of soil sample SS19 confirm the presence of gasoline-range TPH exceeding the Reportable Concentration for soil (10 mg/kg). Based on PID measurements collected in the field, soil sample SS19 was also submitted to Prism for analysis by EPA Method 8260 and MADEP Method VPH. Analytical results confirm the presence of 14 petroleum-related contaminants in soil sample SS19, with the concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, sec-butylbenzene, and MADEP C5-C8 aliphatics exceeding the Soil-to-Groundwater MSCC. Soil sample SS19 also contained a concentration of MADEP C9-C10 aromatics exceeding the Residential MSCC (GMA, 2007).

Soil samples SS21 through SS31 were collected from beneath the gasoline product lines at a spacing of 10 feet between samples and beneath joints in the product lines (Figure 4). No gasoline related contamination was detected in soil samples SS21 through SS31 by TPH analysis. Based on PID measurements collected in the field, soil sample SS30 (collected beneath a product line joint near the dispenser island, Figure 4) was also submitted to Prism for analysis by EPA Method 8260 and MADEP Method VPH. Analytical results confirm the presence of seven petroleum-related contaminants in soil sample SS30, but none of the concentrations exceeded the Soil-to-Groundwater or the Residential MSCC (GMA, 2007).

Soil samples SS32 and SS33 were collected from beneath the gasoline dispensers (Figure 4). No gasoline-range contamination was detected in soil sample SS32 by TPH analysis, but the analytical results of soil sample SS33 confirm the presence of gasoline-range TPH exceeding the Reportable Concentration for soil (10 mg/kg). Based on PID measurements collected in the field, soil sample SS32 was also submitted to Prism for analysis by EPA Method 8260 and MADEP Method VPH. Analytical results of soil sample SS32 confirm the presence of nine petroleum-related contaminants, with the concentrations of 1,2,4-trimethylbenzene and naphthalene exceeding the Soil-to-Groundwater MSCC (GMA, 2007).

On August 15, 2007, GMA supervised the installation of two (15 foot) monitoring wells (MW1 and MW2, Figure 4). Monitoring well MW1 was installed adjacent to the northeast corner of the former kerosene UST and the kerosene product line. Monitoring well MW2 was installed beside the gasoline UST, adjacent to the collection location of soil sample SS19 (Figure 4). Groundwater samples (MW1 and MW2) were collected from the monitoring wells on August 20, 2007. Groundwater sample MW1 was submitted to Prism for analysis by EPA Methods 602 and 625, and MADEP Methods EPH and VPH, and groundwater sample MW2 was submitted to Prism for analysis by EPA Method 6210D (plus methyl tert-butyl ether (MTBE) and isopropylether (IPE)), lead by 3030C, and MADEP Method VPH. No petroleum-related contamination was detected in groundwater samples MW1 or MW2 (GMA, 2007).

The collection locations of soil samples SS1 through SS33 are depicted in Figure 4. Technical methods and standard procedures used to install the monitoring well, measure water levels, and collecting soil and groundwater samples are described in Appendix H of the 20-Day Report dated September 11, 2007. Copies of the laboratory reports and chain-of-custody forms for the soil and groundwater samples are included in Appendices I and J, respectively, of the 20-Day Report dated September 11, 2007 (GMA, 2007).

VI. CONCLUSIONS

Field evidence and analytical results for soil samples indicate that localized soil contamination was present beneath the kerosene and gasoline dispensers, beneath a gasoline product line joint near the dispenser island, and adjacent to a connection between a gasoline product line and a pump for the 12,000-gallon gasoline UST. Soil sample SS8 collected beneath the kerosene

dispenser contained eight petroleum-related contaminants, but none of the concentrations exceeded the Soil-to-Groundwater or the Residential MSCC. Soil sample SS19 collected adjacent to the gasoline UST contained 14 petroleum-related contaminants, with the concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, sec-butylbenzene, and MADEP C5-C8 aliphatics exceeding the Soil-to-Groundwater MSCC. Soil sample SS19 also contained a concentration of MADEP C9-C10 aromatics exceeding the Residential MSCC. Soil sample SS30 collected beneath a gasoline product line joint near the dispenser island contained seven petroleum-related contaminants, but none of the concentrations exceeded the Soil-to-Groundwater or the Residential MSCC. Soil sample SS32 collected beneath one of the gasoline dispensers contained nine petroleum-related contaminants, with the concentrations of 1,2,4-trimethylbenzene and naphthalene exceeding the Soil-to-Groundwater MSCC (GMA, 2008).

On May 22, 2007, CBM installed and sampled two temporary monitoring wells at the Village Mart site. Monitoring wells TMW-1 and TMW-2 were installed adjacent to the 12,000-gallon gasoline UST and between the 2000-gallon kerosene UST and the gasoline dispenser island, respectively. No detectable concentrations of requested method constitutes were reported in the groundwater samples collected from TMW-1 and TMW-2 (GMA, 2008).

On August 15, 2007, GMA supervised the installation of two monitoring wells. Monitoring well MW1 was installed adjacent to the northeast corner of the former kerosene UST and the kerosene product line. Monitoring well MW2 was installed beside the gasoline UST, adjacent to the collection location of soil sample SS19. Groundwater samples were collected from the monitoring wells on August 20, 2007. No petroleum-related contamination was detected in groundwater samples MW1 or MW2.

GMA completed a survey within a radius of 1500 feet around the site to identify water-supply wells and other sensitive receptors. No water-supply wells were identified within 250 feet of the source area. The closest well is an inactive well that is located approximately 490 feet east of the source area, at 266 North Carolina Highway 33 East. Two active potable wells, two active nonpotable wells, and one well of unknown status are located between 500 and 1000 feet of the source area. Three active potable wells, two inactive wells, and two wells of unknown status are located between 1000 and 1500 feet of the source area.

Ditches along the southeast and northwest property boundaries of the site contained saturated soil at their bases during tank closure procedures on August 14-15, 2008, and during the receptor survey performed on August 12, 2008. It appears that these ditches may contain water intermittently. The ditch along the northwest property boundary is located approximately 75 feet northwest of the former kerosene dispenser. The ditch along the southeast property boundary is located approximately 45 feet southeast of the 12,000-gallon gasoline UST.

The site does not lie within a designated wellhead protection area according to the NCDENR Public Water Supply Section website. The site is located outside of the Princeville City limits. Properties in the surrounding area are primarily used for residential and commercial purposes, or are undeveloped.

VII. REFERENCES

CBM Environmental Services, Inc., 2007, Soil and Groundwater Samples, Former Gas Station, 735 North Ridgewood Drive, Edgecombe County, 2 pages.

Groundwater Management Associates, Inc., 2007, 20-Day Report, Village Mart, Tarboro, Edgecombe County, 9 pages.

Groundwater Management Associates, Inc., 2008, Initial Abatement Action Report, Village Mart, Tarboro, Edgecombe County, 13 pages.

North Carolina Geological Survey, 1985, Geologic Map of North Carolina: North Carolina Department of Environment and Natural Resources, Raleigh, North Carolina, 1 Sheet, 1: 500,000 Scale.

Winner, M.D. Jr., and Coble, R.W., 1989, Hydrogeologic Framework of the North Carolina Coastal Plain Aquifer System, Raleigh, North Carolina, 155 pages.

VIII. SITE HISTORY

A. UST System History

UST ID Number	Current/Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions
Tank 1	gasoline	gasoline	12,000	fiberglass-coated steel tank	8' x 31.9'
Tank 2	kerosene	kerosene	2000	fiberglass-coated steel tank	5.3' x 12'

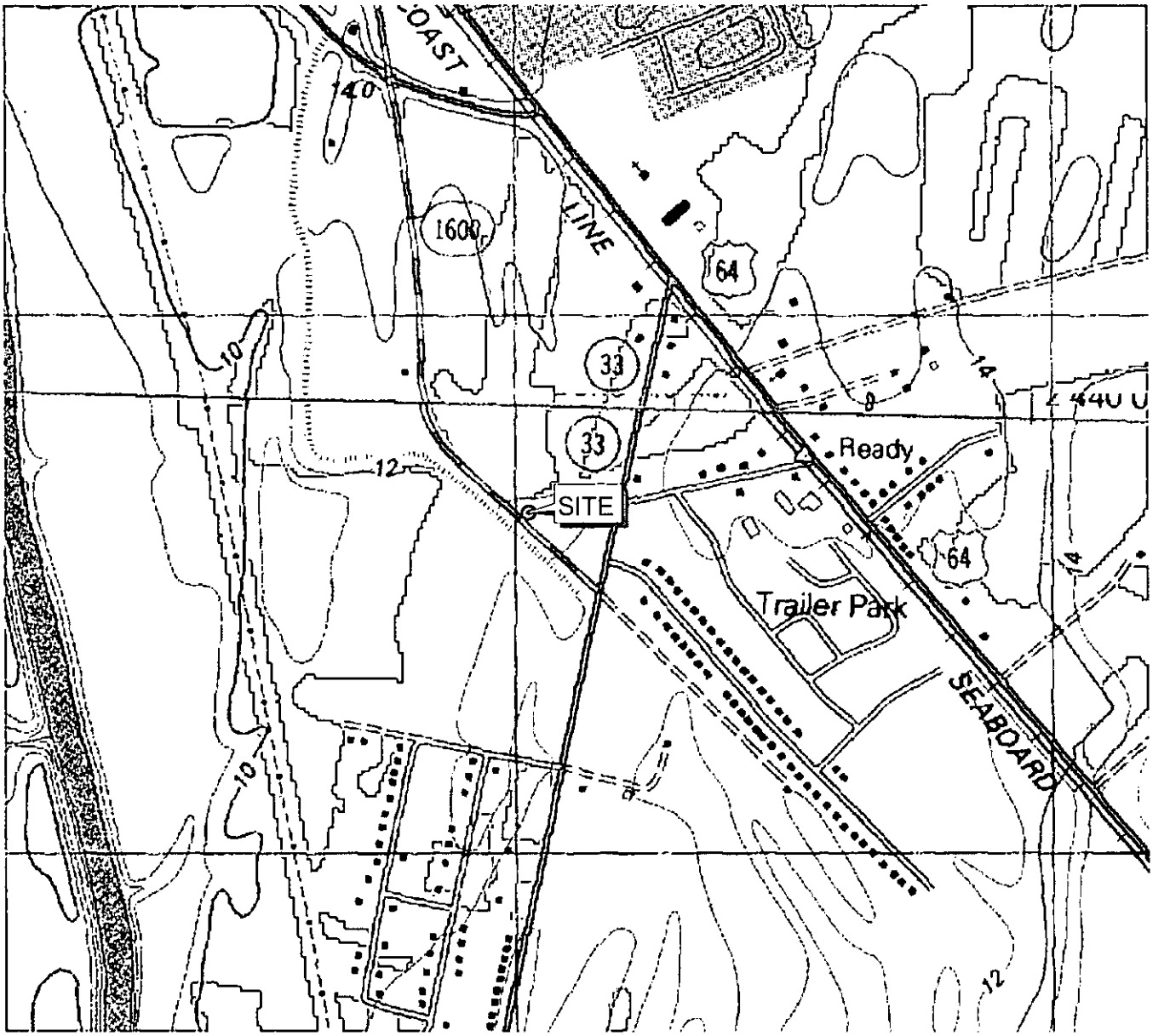
Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System
Fiberglass piping	unknown	closed-in-place	Yes, dispensers and connection between pump and product line
Fiberglass piping	unknown	removed	Yes, dispenser

B. UST Owner/Operator Information and History

UST ID Number(s)	Tank 1 & Tank 2	Facility ID Number	0-034838
Name of Owner		Dates of Operation	
H.M., Jr., and Shirley Etheridge		unknown	
Street Address			
607 North Carolina Highway 33 East			
City	State	ZIP	Telephone
Greenville	North Carolina	27886	(252) 823-4948

FIGURES

SITE LOCATION



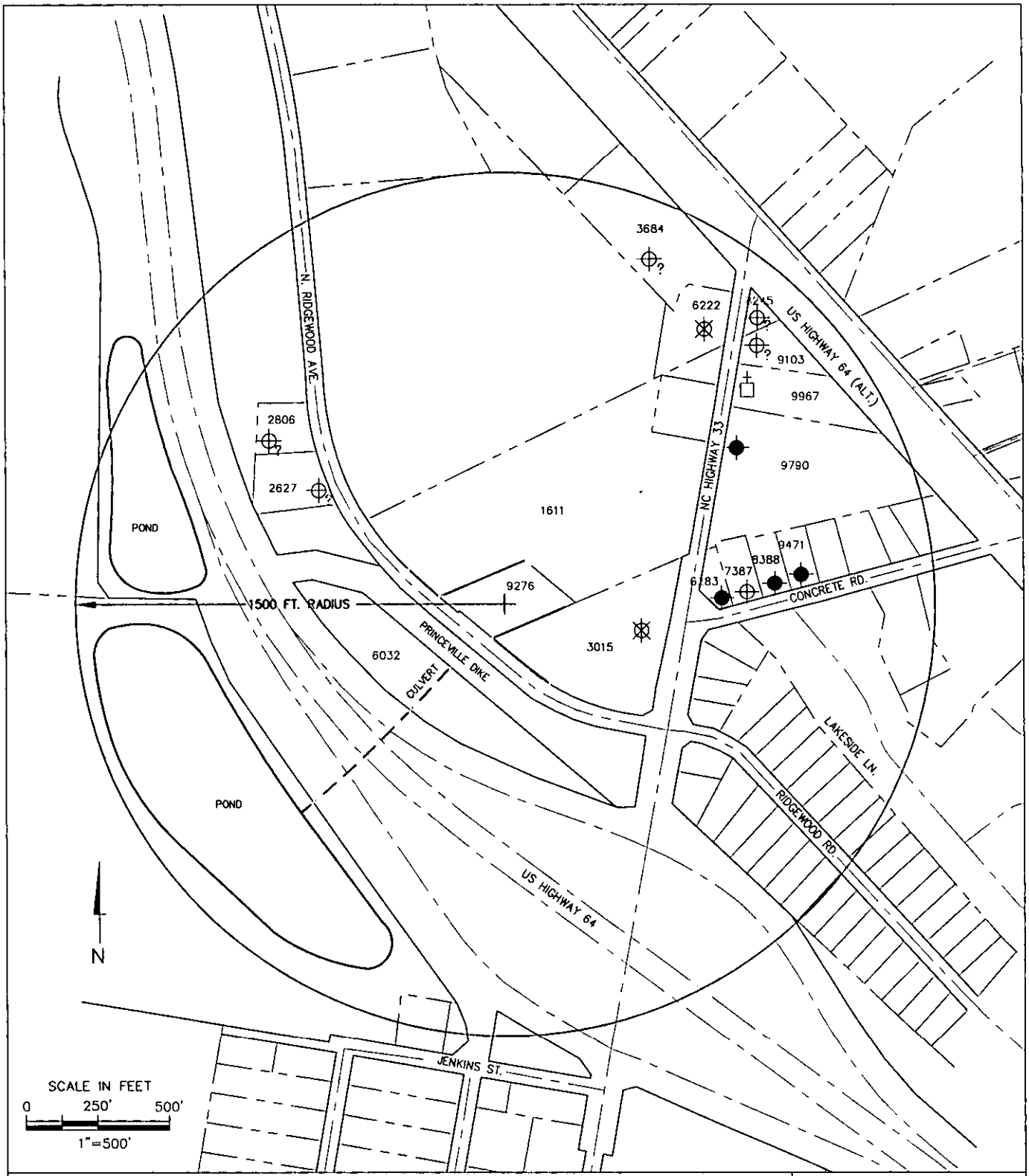
1000 0 1000 2000 Feet

N
W E
S

OLD SPARTA QUADRANGLE
NORTH CAROLINA - EDGECOMBE COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)
CONTOUR INTERVAL=2 METERS
MAP DATED 1981

⊙ SITE

VILLAGE MART TARBORO, EDGECOMBE COUNTY, NC	FIGURE 1
GMA — GROUNDWATER MANAGEMENT ASSOCIATES, INC. 2025-E EASTGATE DRIVE GREENVILLE, NORTH CAROLINA 27858	8/20/2007 PROJECT 109401



LEGEND

WSW=WATER-SUPPLY WELL

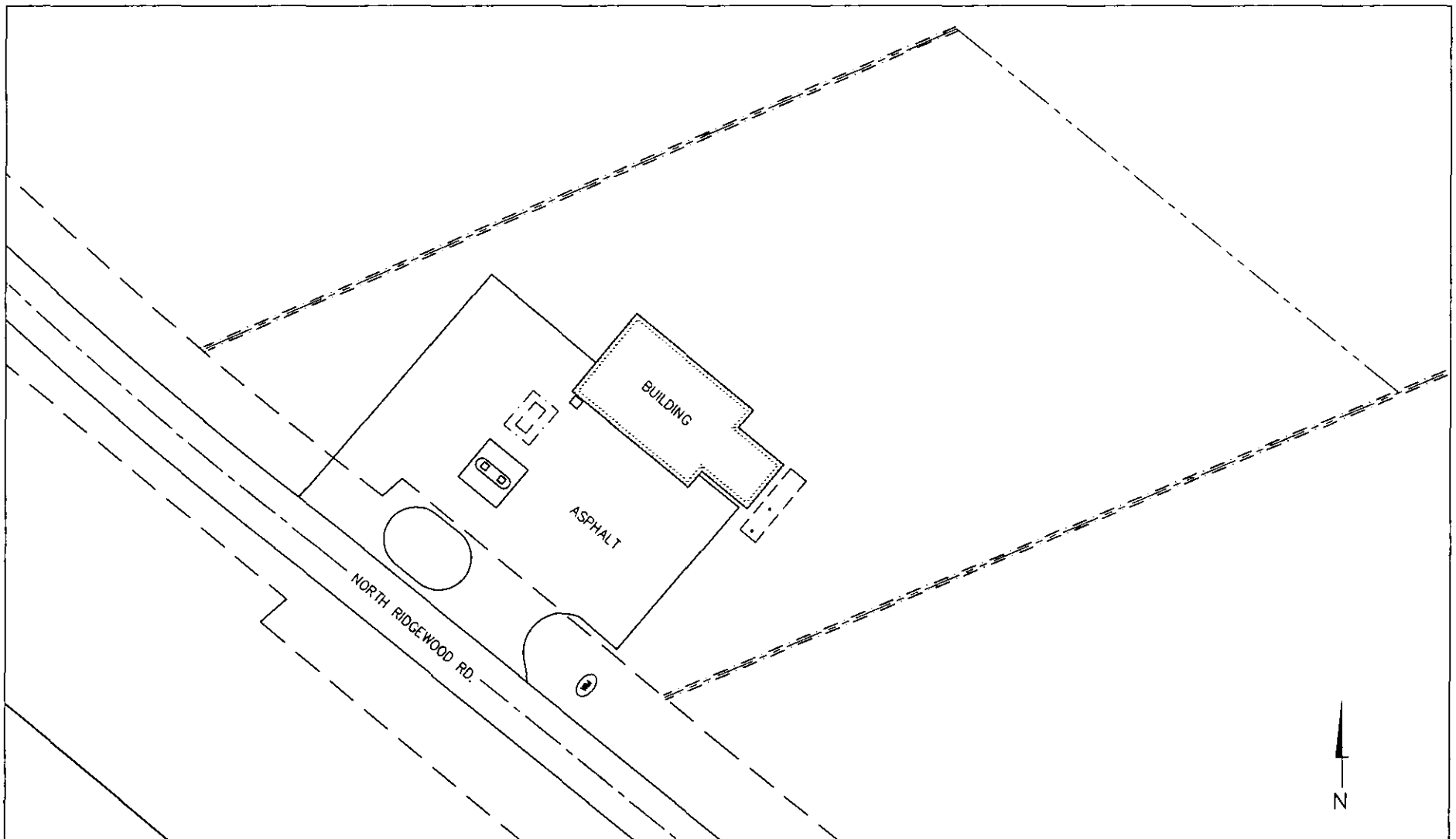
PROPERTY LINE
DOT RIGHT-OF-WAY
CENTER LINE
WATER FEATURE

CHURCH
9276 PARCEL NUMBER (LAST 4-DIGITS)

ACTIVE POTABLE WSW
ACTIVE NON-POTABLE WSW
UNKNOWN STATUS WSW
INACTIVE WSW

GMA
GROUNDWATER MANAGEMENT ASSOCIATES, INC.

File: DRAWING/109401 1500RAD	PROPERTIES AND WATER-SUPPLY WELLS WITHIN 1500 FT. OF SITE	Date: 9/4/2008
Project No. 109401	VILLAGE MART, TARBORO, EDGECOMBE CO., NC	Figure 2



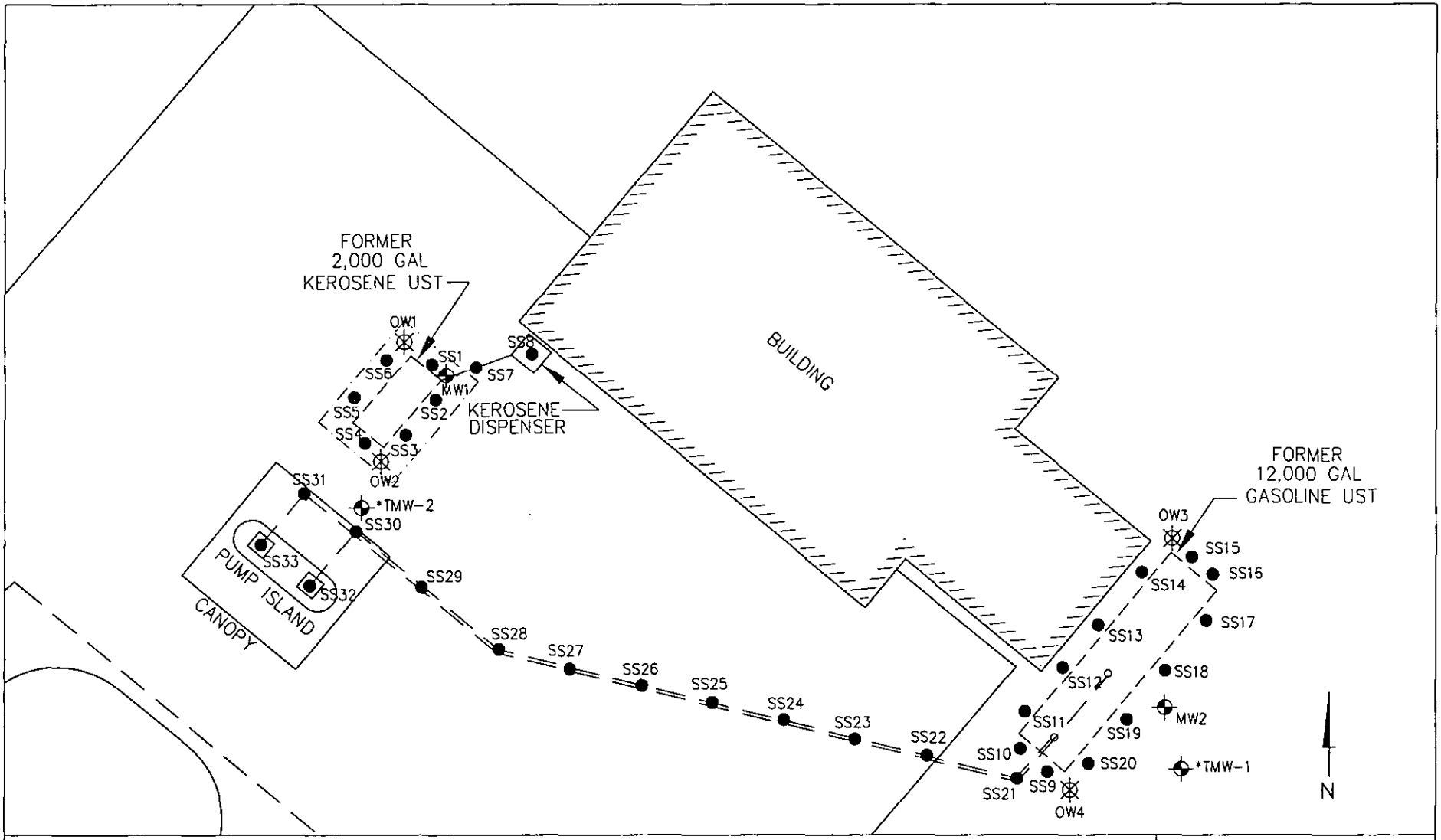
— LEGEND —

- PROPERTY LINE
- DOT RIGHT-OF-WAY
- EDGE OF PAVEMENT
- CENTER LINE
- INTERMITTENT DITCH
- FORMER UST
- LIMITS OF EXCAVATION
- UST=UNDERGROUND STORAGE TANK
- WATER METER

SCALE IN FEET
0 30' 60'
1"=60'

GMA
GROUNDWATER MANAGEMENT ASSOCIATES, INC.

File: GJR\GMA\109401 SITE	SITE MAP	Date: 9/11/2007
Project No. 109401	VILLAGE MART, TARBORO, EDGECOMBE CO., NC	Figure 3



— LEGEND — UST=UNDERGROUND STORAGE TANK

- PROPERTY LINE
- DOT RIGHT-OF-WAY
- EDGE OF PAVEMENT
- CENTER LINE
- LIMITS OF EXCAVATION
- *TEMPORARY MONITORING WELL (CBM)
- SOIL SAMPLE
- PRODUCT LINES
- MONITORING WELL
- ABANDONED MONITORING WELL

SCALE IN FEET
0 10' 20'
1"=20'

GMA
GROUNDWATER MANAGEMENT ASSOCIATES, INC.

File: GJR\GMA\109401 SS-MW	LOCATION OF FORMER USTS, LIMITS OF EXCAVATION, SOIL SAMPLES, AND MONITORING WELLS	Date: 9/11/2007
Project No. 109401	VILLAGE MART, TARBORO, EDGECOMBE CO., NC	Figure 4

TABLES

Table 1. List of Adjacent Properties and Properties with Water-Supply Wells Within 1500 Feet of the Site
Village Mart Tarboro, Edgecombe County UST Incident #: 33370

Parcel ID Number	Property Owner's Name	Site Address	Property Owner's Address	Telephone Number (if available)	Water-Supply Well Status	Distance and Direction from the Source Area
9276	Ernest Holt	735 N. Ridgewood Rd. Tarboro, NC 27886 (previously listed as 607 N. Ridgewood Rd.)	PO Box 30220 Greenville, NC 27833	(252) 341-0720		Site
1611	Carolina Family Health Centers	162 NC Hwy 33 E. Tarboro, NC 27886	303 E. Green St. Wilson, NC 27893			115 ft N
6032	Barnhill Contracting Co.	N. Ridgewood Rd. Tarboro, NC 27886	PO Box 1529 Tarboro, NC 27886			190 ft SW
3015	Carrie Willoughby	266 NC Hwy 33 E. Tarboro, NC 27886	PO Box 516 Tarboro, NC 27886		1 inactive WSW	490 ft E
2627	Ernest & Sylvia Shaw	588 N. Ridgewood Rd. Tarboro, NC 27886	same	(252) 823-1412	1 active nonpotable WSW	750 ft NW
6382	Charles & Rosa Exum	243 NC Hwy 33 E. Tarboro, NC 27886	1501 Chauncey Dr. Tarboro, NC 27886	(252) 824-0321	1 active potable WSW	750 ft E
7387	Charles & Sarah Staton	55 Concrete Rd. Tarboro, NC 27886	536 Willoughby Ave. Brooklyn, NY 11206		1 active nonpotable WSW	850 ft E
8388	Beatrice Holliman	81 Concrete Rd. Tarboro, NC 27886	same	(252) 641-4320	1 active potable WSW	950 ft E
2806	Megelton Short	572 N. Ridgewood Rd. Tarboro, NC 27886	same		1 WSW, status unknown, but the residence is connected to public water	1000 ft NW
9790	Mary & Howard Heath	127 NC Hwy 33 E. Tarboro, NC 27886	707 Davis Dr. Tarboro, NC 27886		1 active potable WSW	1020 ft NE
9471	Sherena McNair	97 Concrete Rd. Tarboro, NC 27886	same		1 WSW that is likely active potable, residence is not connected to public water	1050 ft E
6222	James & Mary Myrick	68 NC Hwy 33 E. Tarboro, NC 27886	same		1 inactive WSW	1160 ft NW
9967	Jack & Alice Hinton, Lakeside Community Worship Center	NC Hwy 33 E. Tarboro, NC 27886	322 Neville St. Princeville, NC 27886	(252) 823-1285	1 inactive WSW	1180 ft NE
9103	Meadowbrook Contractors, Inc.	85 NC Hwy 33 E. Tarboro, NC 27886	4416 Meadowbrook Rd. Rocky Mount, NC 27801		1 WSW, status unknown	1260 ft NE
8245	Vines & Sandra McKinley	67 NC Hwy 33 E. Tarboro, NC 27886	same		1 WSW, status unknown	1330 ft NE
5992	Thomas Atkinson (East Carolina Truck Accessories)	54 NC Hwy 33 E. Tarboro, NC 27886	PO Drawer 98 Tarboro, NC 27886	(252) 823-2630	1 active potable WSW	1340 ft NE

Distances are measured from the water-supply well (WSW) or closest property corner (if a well is not present) to the area of the site marked on Figure 2.

Table 2. Construction Date, Depths, Screened Intervals and Water Level Measurements for Monitoring Wells
Village Mart Tarboro, Edgecombe County UST Incident #: 33370

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (feet BLS)	Screened Interval (feet BLS)	Bottom of Well (feet BLS)	Depth to Water from Top of Casing (feet)	Free Product Thickness (feet)
MW1	8/15/2007	8/20/2007	0.0-2.0	2.0-15	15	5.52	none
MW2	8/15/2007	8/20/2007	0.0-2.0	2.0-15	15	3.87	none

BLS = Below Land Surface

APPENDIX I

COPY OF NCDENR NORR DATED AUGUST 5, 2008

NCDENR

North Carolina Department of Environment and Natural Resources

Copy

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

August 5, 2008

H.M., Jr., and Shirley Etheridge
607 NC 33 East
Tarboro, North Carolina 27886

Re: Notice of Regulatory Requirements
15A NCAC 2L .0405
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Village Mart
607 North Ridgewood Road, Tarboro
Edgecombe County
Incident number:33370
Ranking:
Risk Classification: pending

Dear Mr.and Mrs. Etheridge:

The Initial Abatement Action Report received by the UST Section, Raleigh Regional Office on January 7, 2008 has been reviewed. The report indicates that soil contamination exceeds the lower of the residential or soil – to – groundwater maximum soil contaminant concentration (MSCC's) established in Title 15A NCAC 2L .0411. Therefore, the UST Section hereby confirms that you must comply with assessment and reporting requirements of Title 15A NCAC 2L .0405, within the timeframes specified in the attached rule.

The requirements of Title 15A NCAC 2L .0405 include the preparation and submittal of a Limited Site Assessment (LSA) Report, in accordance with the rule and the most recent version of the *UST Section Guidelines for Assessment and Corrective Action*, within 60 days of your receipt of this letter. Please note that monitoring wells have been installed and sampled, however, other requirements of an LSA must be met, including a well survey to establish risk.

Because a release or discharge has been confirmed, a Licensed Geologist or a Professional Engineer, certified by the State of North Carolina, is required to prepare and certify all reports submitted to the Department in accordance with Title 15A NCAC 2L .0103(e) and 2L .0111(b).

Please note that before you sell, transfer, or request a "No Further Action" determination for a property that has not been remediated to below "unrestricted use" standards, you must file a Notice of Residual Petroleum ("Notice") with the Register of Deeds in the county where the property is located (NCGS 143B-279.9 and 143B-279.11).

Failure to comply with the State's rules in the manner and time specified may result in the assessment of civil penalties and/or the use of other enforcement mechanisms.

If you have any questions regarding trust fund eligibility or reimbursement from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds, please contact the UST Section Trust Fund Branch at (919) 733-8486. If you have any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact Harry Messenger at the address or telephone number listed below.

Sincerely,

Harry Messenger

Harry Messenger
Environmental Senior Technician
Raleigh Regional Office

Enclosures: Title 15A NCAC 2L .0405

cc: Karen Lachapelle, Edgecombe County Health Department
Kyle B. Quick, Groundwater Management Associates, Inc. ; 4300 Sapphire Court, Suite 100 ; Greenville, NC 27834

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

FTP: LSA request NOR0907.dot

Lighthouse Technical
ENVIRONMENTAL CONSULTANTS
SOIL AND GROUNDWATER SPECIALISTS

Sygma Spill

August 4, 2015

NC DENR Raleigh Regional Office

Sygma Network
2730 Hutchinson McDonald Rd
Suite N
Charlotte, North Carolina 28269

Re: Initial Assessment Report
Sygma Network-Diesel Fuel Spill
June 17, 2015
Highway 64
Tarboro, North Carolina
Edgecombe County INC. 92487

Dear Sirs

Lighthouse Technical (Lighthouse) completed an initial assessment of the impact to soils for the incident noted above in conjunction with cleanup efforts by Eastern Environmental Management, Inc. (EEM). The results of the post excavation soil analyses are included with this report. If you have questions, please contact us at 704-237-4209.

Sincerely,
Lighthouse Technical, P.C

Steven B. Lucas, L.G.
Environmental Geologist

cc NCDENR-Raleigh Regional Office

Environmental Consultants-Soil and Groundwater Specialists
Charlotte Roanoke Rapids

P.O. Box 1379, Huntersville, North Carolina 28070
Phone: (704) 237-4209 · FAX: (704) 943-0758

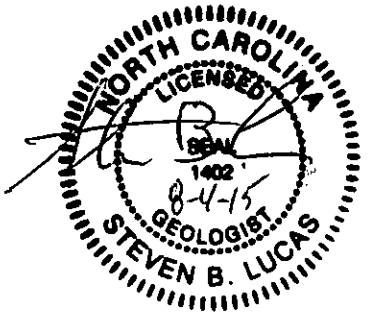
Initial Assessment Report

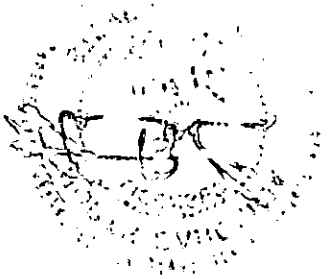
August 4, 2015

Date of Release:	June 17, 2015
Material Released And Amount:	Diesel Fuel (40-50 Gallons)
Responsible Party:	Sygma Network 2730 Hutchinson McDonald Rd Suite N Charlotte, North Carolina 28269
Spill Location:	Highway 64 East Tarboro, North Carolina Latitude: N 35.86820 Longitude: W 077.52055 Edgecombe County
Cleanup Contractor:	Eastern Environmental Management, Inc. PO Box 4030 Rocky Mount, North Carolina 27803 252- 443-2224 Contact: Carl Smith
Consultant:	Lighthouse Technical, PC PO Box 1379 Huntersville, North Carolina 28070 704-237-4209 Contact: Steven B. Lucas
Laboratory:	Pace Analytical 9800 Kincey Avenue Huntersville, North Carolina 28078 704-875-9092 Contact: Taylor Ezell

Certification:

I Steven B. Lucas, a Licensed Geologist for Lighthouse Technical, P.C., do certify that the information contained in this report is correct and accurate to the best of my knowledge. Lighthouse Technical, P.C. is licensed to practice geology in North Carolina. The certification number of the corporation is C-478.





Introduction

On June 17, 2015, a Sygma Network vehicle was traveling east from Highway 33 to Highway 64 in Tarboro, North Carolina when it encountered debris in the roadway. The truck's fuel tank was ruptured which caused a diesel fuel leak. The exact amount of diesel fuel spilled is unknown however officials on site indicated the amount was approximately 40 to 50 gallons. Figure 1 illustrates the location of the incident.

Impact and potential receptors

Diesel fuel leaked from the truck's fuel tank into soil along the highway shoulder. An area approximately 35 feet long and 8 feet wide was affected.

No surface water was impacted. The nearest water way was a large pond located approximately 100 to 200 feet south of incident. No water supply wells or residences were noted nearby.

Abatement, removal action, soil sample collection

Soil excavation began on July 2, 2015. EEM excavated the area noted on Figure 2. The excavation depth ranged from 1.5 to 2 feet. Post excavation soil samples S-1 and S-2 were collected for laboratory analysis and documentation of the cleanup. Figure 2 illustrates the limits of excavation and the location of the post excavation soil samples. No free phase product or groundwater was noted in the excavation.

Laboratory Analysis of Post Excavation Soil Samples

The post excavation soil samples were placed in laboratory supplied containers, cooled with ice, and transported under Chain-of-Custody protocol to Pace Analytical Services, Inc. located in Huntersville, North Carolina. The submitted soil samples were initially analyzed for Total Petroleum Hydrocarbon-Diesel Range Organics (TPH-DRO) and Total Petroleum Hydrocarbon-Gasoline Range Organics (TPH-GRO).

The TPH-DRO and TPH-GRO result for sample S-1 was Non Detect which is below the North Carolina Department of Environment and Natural Resources (NCDENR) action limit of 10 mg/kg. The TPH DRO result for sample S-2 was 15.1 mg/kg, thus the sample was evaluated using methods 8260, 8270, MADEP EPH and VPH. The result for each of these analyses was Non Detect.

Table 1 includes the laboratory results. Appendix A includes the laboratory report for the post excavation samples as well as one sample for waste disposal (W-1).

Waste disposal

EEM organized disposal of the impacted soil. The total amount of excavated soil was 37.14 tons. EEM transported the soil to Soil Resources, LLC for disposal. The facility is located in Pinetops, North Carolina. Appendix B includes the waste disposal documentation provided by EEM.

Conclusion

The post excavation soil sample laboratory analysis results were either below the NCDENR-TPH action level of 10 mg/kg or the Maximum Soil Contaminate Concentrations established. A copy of this report will be submitted to the Raleigh Regional office of the NCDENR. They will evaluate the results of the assessment and respond accordingly. Closure of the incident is expected but dependent upon their review.

Table 1

Soil Sample Analytical Results
Sygma Network
Diesel Fuel Spill
Tarboro, North Carolina

Sample ID	Collection Date	Depth (feet)	DRO (mg/kg)	GRO (mg/kg)	MADEP EPH	MADEP VPH	Method 8260	Method 8270
S-1	7/2/15	1.5	ND	ND	ND	ND	ND	ND
S-2	7/2/15	2	**15.1**	ND	ND	ND	ND	ND
NCDENR Action Level			**10**	**10**				

DRO: Total Petroleum Hydrocarbon-Diesel Range Organic

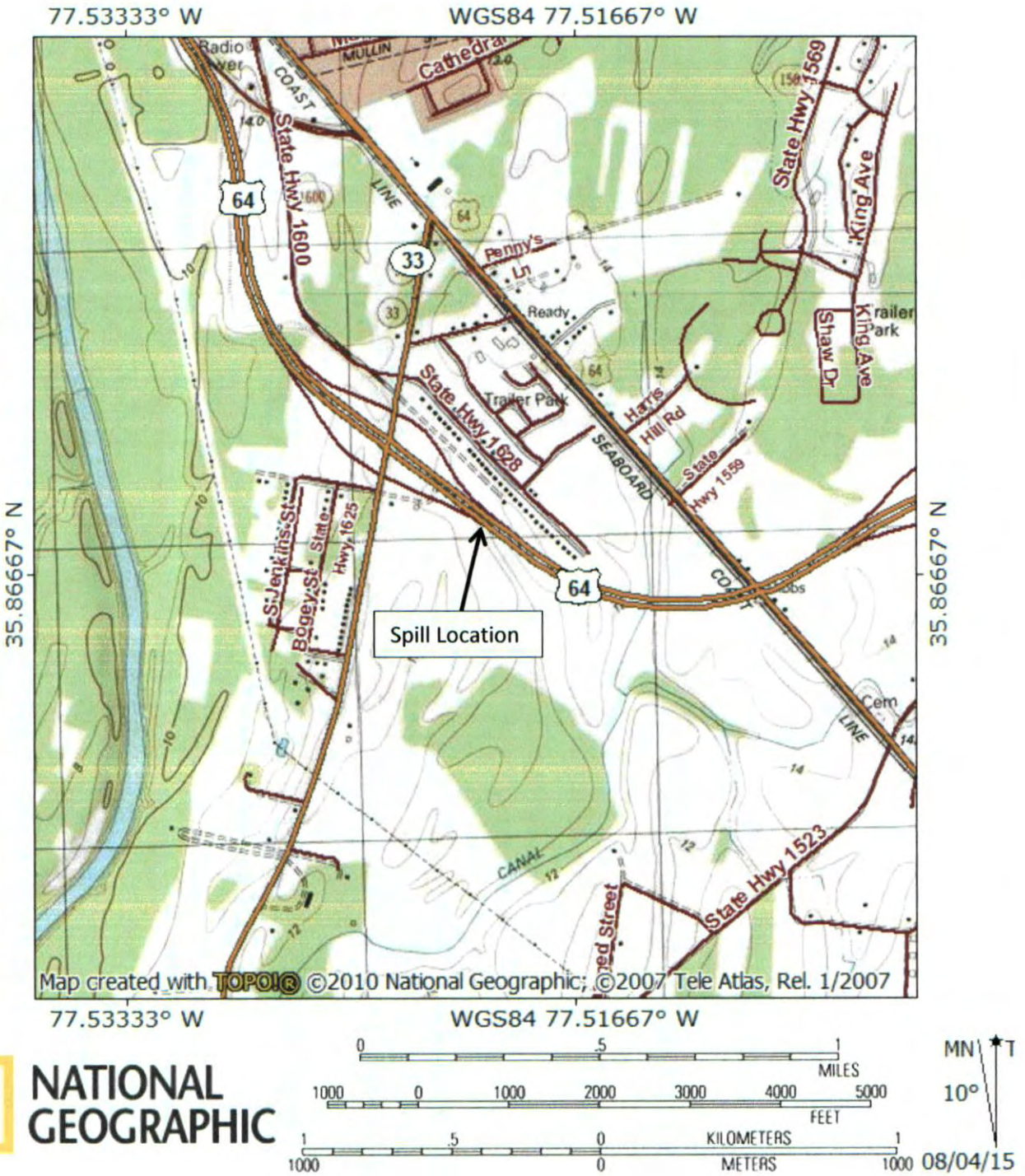
GRO: Total Petroleum Hydrocarbon-Gasoline Range Organic

mg/kg: milligrams per kilogram: parts per million (PPM)

ND: Non detectable at the laboratory detection limits

Figure 1

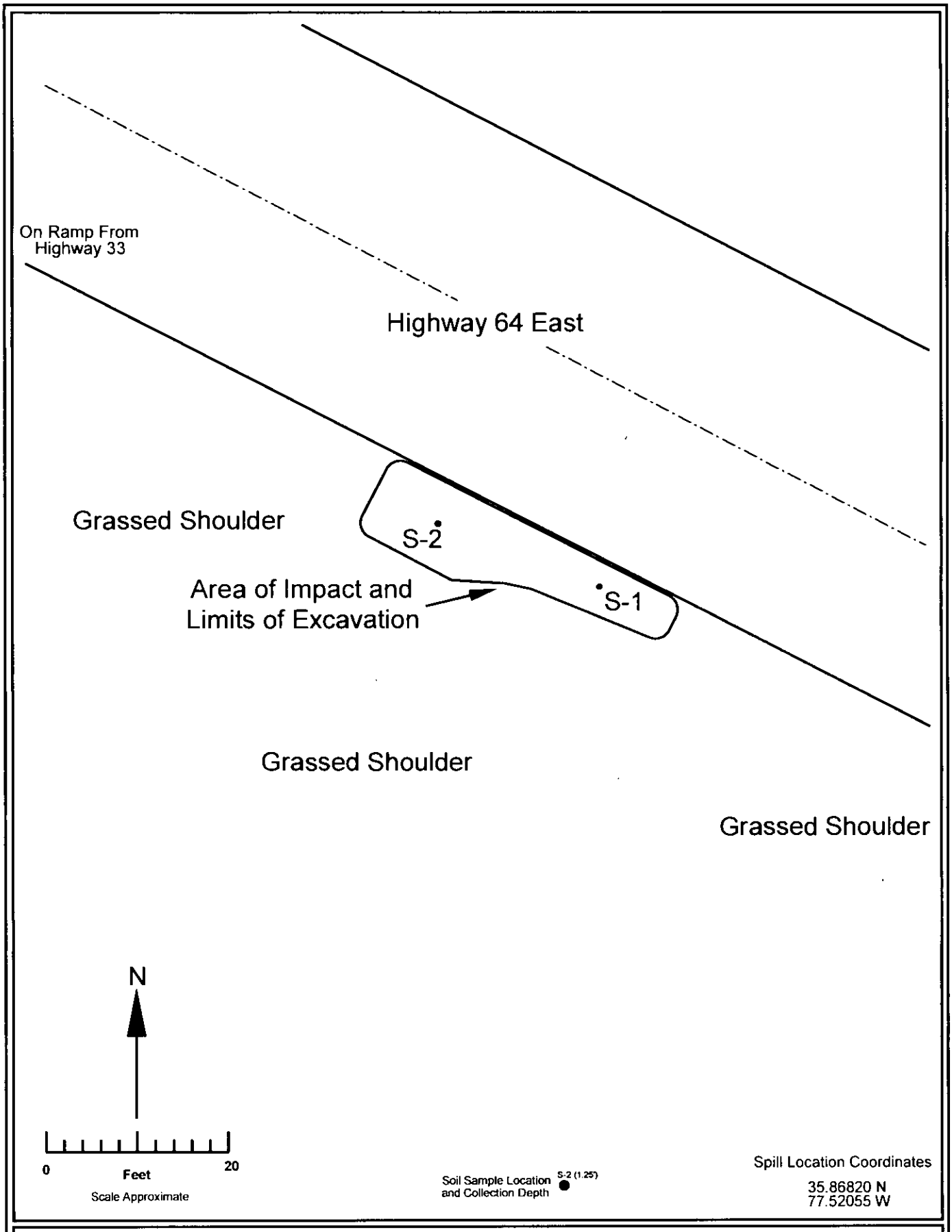
Sygma Network-Diesel Fuel Spill
Highway 64 East
Tarboro, North Carolina



NATIONAL GEOGRAPHIC

0 .5 1 MILES
1000 0 1000 2000 3000 4000 5000 FEET
1 .5 0 KILOMETERS 1
1000 0 METERS 1000

MN T
10°
08/04/15



Lighthouse
Technical,P.C.
Environmental Consultants
Soil and Groundwater Specialists

Figure 2
Post Excavation
Soil Sample Locations

Sygma Network
Diesel Fuel Spill
Highway 64 East
Tarboro, North Carolina

Limitations

This report has been prepared by Lighthouse Technical,P.C. (Lighthouse) for the use of our client. The findings and technical interpretations included in this report are specific to the area of investigation. This assessment of subsurface conditions has been performed in accordance with generally accepted practices of assessing the subsurface for contaminants.

The conclusions presented in this report are based on subsurface sampling performed at selected locations and depths. The data collected represent the conditions at the sample location and at the time of sample collection only. There may be conditions between borings or samples that differ from those presented in this report. Such conditions could not be predicted by this assessment.

Lighthouse by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake the responsibility for reporting to any Local, State, or Federal public agencies as required by law or otherwise to disclose, in a timely manner, unless so directed by the client, any information that may be necessary to prevent any danger to public health, safety, or the environment. No warranty, expressed or implied is made by the preparation of this report.

Appendix A

(Full Report and Lab Data on Disc)

Eastern Environmental Management LLC

P.O. Box 4030 • Rocky Mount, NC 27803
Office (252) 443-2224 (24 Hrs.) • Fax (252) 972-9940
www.eastern-environmental.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page of

3. Generator's Name and Mailing Address: Sigma Network, 2730 Hutchinson McDonald, Suite N, Charlotte, NC

Contact:

4. Generator's Phone: 803 370-4546

5. Transporter 1 Company Name: EASTERN ENVIRONMENTAL MANAGEMENT

6. US EPA ID Number: NCR000146456

A. State Transporter's ID: 600308640

B. Transporter 1 Phone: 252-443-2224

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Soil Recovery, Pinetops NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 252-904-2057

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Haz non-Reg contaminated Fuel Soil	1	DT	21.59	T
b.				
c.				
d.				
e.				
f.				

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Agent for EEM

Signature: Grant Cunningham

Date: Month 7 Day 12 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Material

Printed/Typed Name: Andrew Long

Signature: Andrew Long

Date: Month 7 Day 12 Year 15

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest except as noted in item 19.

SP

Printed/Typed Name: Johnny Adams

Signature

Date: Month 7 Day 12 Year 15

Eastern Environmental Management

P.O. Box 4030 • Rocky Mount, NC 27803
Office (252) 443-2224 (24 Hrs.) • Fax (252) 972-9940
www.eastern-environmental.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page of

3. Generator's Name and Mailing Address: SYSNA Network, 2730 Hutchinson McDonald Rd, Charlotte, NC

Contact:

4. Generator's Phone: (803) 3704946

5. Transporter 1 Company Name: EASTERN ENVIRONMENTAL MANAGEMENT

6. US EPA ID Number: NCR000146456

A. State Transporter's ID: 600308640

B. Transporter 1 Phone: 252-443-2224

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address: Soil Resources, Pinetops, NC

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 252-9642657

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Haz Diesel Soil	1	DT	15.55	T
b.				
c.				
d.				
e.				
f.				

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Johnny Barnes Agent | Signature | Date: Month 7 Day 2 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Material

Printed/Typed Name: Larry Proctor | Signature: Larry Proctor | Date: Month 7 Day 2 Year 15

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest except as noted in item 19.

SR

Printed/Type Name: Johnny Barnes | Signature | Date: Month 7 Day 2 Year 15

SELLER
BUYER _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

COMMODITY _____

PRICE _____ DATE _____

REMARKS _____

SHIPPER _____

WEIGHER _____

07-02-15

10:36 am

Gross	70,180 lbs
Tare	27,000 lbs
Net	43,180 lbs

SELLER
BUYER _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

COMMODITY _____

PRICE _____ DATE _____

REMARKS _____

SHIPPER _____

WEIGHER _____

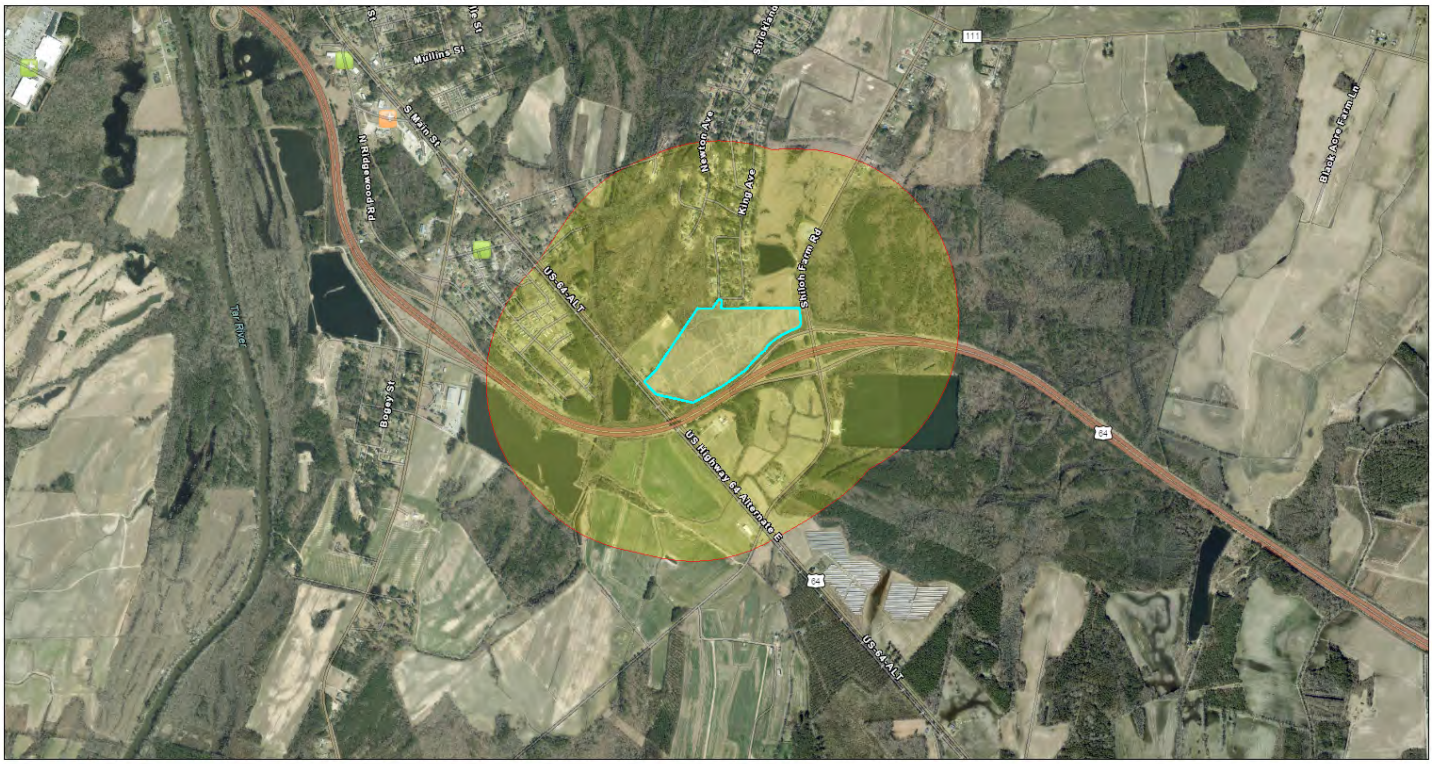
07-02-15
5:05 pm

Gross	58,420 lbs
Tare	27,320 lbs
Net	31,100 lbs

NEPAssist Report

Princeville 53-Acre Site Redevelopment - EPA Facilities 0.5-mile Buffer

A3 Landscape



October 9, 2023

1:22,358

0 0.23 0.45 0.9 mi

0 0.35 0.7 1.4 km

- Brownfields (ACRES)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- Princeville 53-Acre Site Redevelopment - EPA Facilities 0.5-mile Buffer

NC CGIA, Maxar, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Input Coordinates: 35.871448,-77.502892,35.870726,-77.502806,35.870570,-77.502924,35.870248,-77.503804,35.869996,-77.504286,35.869700,-77.504694,35.869492,-77.504844,35.869344,-77.505102,35.868561,-77.505992,35.867883,-77.507205,35.867109,-77.508889,35.867492,-77.510981,35.868083,-77.511657,35.868553,-77.511035,35.871422,-77.508642,35.871413,-77.507805,35.871830,-77.507441,35.871796,-77.507269,35.871413,-77.507301,35.871448,-77.502892

Project Area	0.08 sq mi
Within 0.5 miles of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	yes
Within 0.5 miles of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a Federal Land?	no
Within 0.5 miles of an impaired stream?	no
Within 0.5 miles of an impaired waterbody?	no
Within 0.5 miles of a waterbody?	yes
Within 0.5 miles of a stream?	yes
Within 0.5 miles of an NWI wetland?	Available Online
Within 0.5 miles of a Brownfields site?	no
Within 0.5 miles of a Superfund site?	no

Within 0.5 miles of a Toxic Release Inventory (TRI) site?	no
Within 0.5 miles of a water discharger (NPDES)?	no
Within 0.5 miles of a hazardous waste (RCRA) facility?	no
Within 0.5 miles of an air emission facility?	no
Within 0.5 miles of a school?	no
Within 0.5 miles of an airport?	no
Within 0.5 miles of a hospital?	no
Within 0.5 miles of a designated sole source aquifer?	no
Within 0.5 miles of a historic property on the National Register of Historic Places?	no
Within 0.5 miles of a Toxic Substances Control Act (TSCA) site?	no
Within 0.5 miles of a Land Cession Boundary?	no
Within 0.5 miles of a tribal area (lower 48 states)?	no
Within 0.5 miles of the service area of a mitigation or conservation bank?	no
Within 0.5 miles of the service area of an In-Lieu-Fee Program?	yes
Within 0.5 miles of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 0.5 miles of a Munitions Response Site?	no
Within 0.5 miles of an Essential Fish Habitat (EFH)?	no
Within 0.5 miles of a Habitat Area of Particular Concern (HAPC)?	no
Within 0.5 miles of an EFH Area Protected from Fishing (EFHA)?	no
Within 0.5 miles of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 0.5 miles of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within 0.5 miles of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

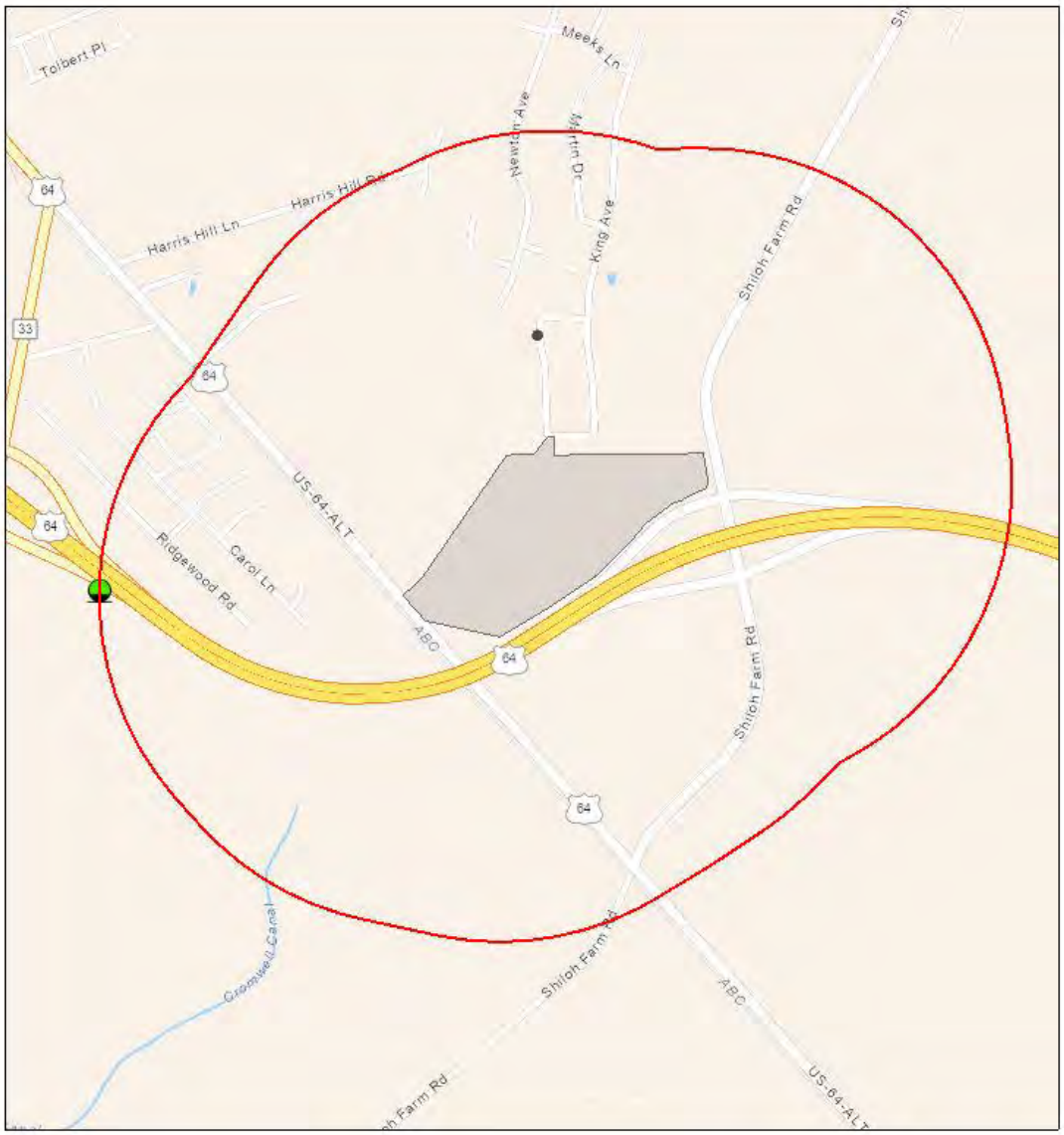
Created on: 10/9/2023 4:13:38 PM

Princeville 53-Acre Site - 0.5-mile Buffer Screening Report

Area of Interest (AOI) Information

Area : 42,147,575.56 ft²

Oct 10 2023 13:54:49 Eastern Daylight Time



1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Non-UST Incidents

Low Risk

County Boundary

NCDOT GIS Unit, Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

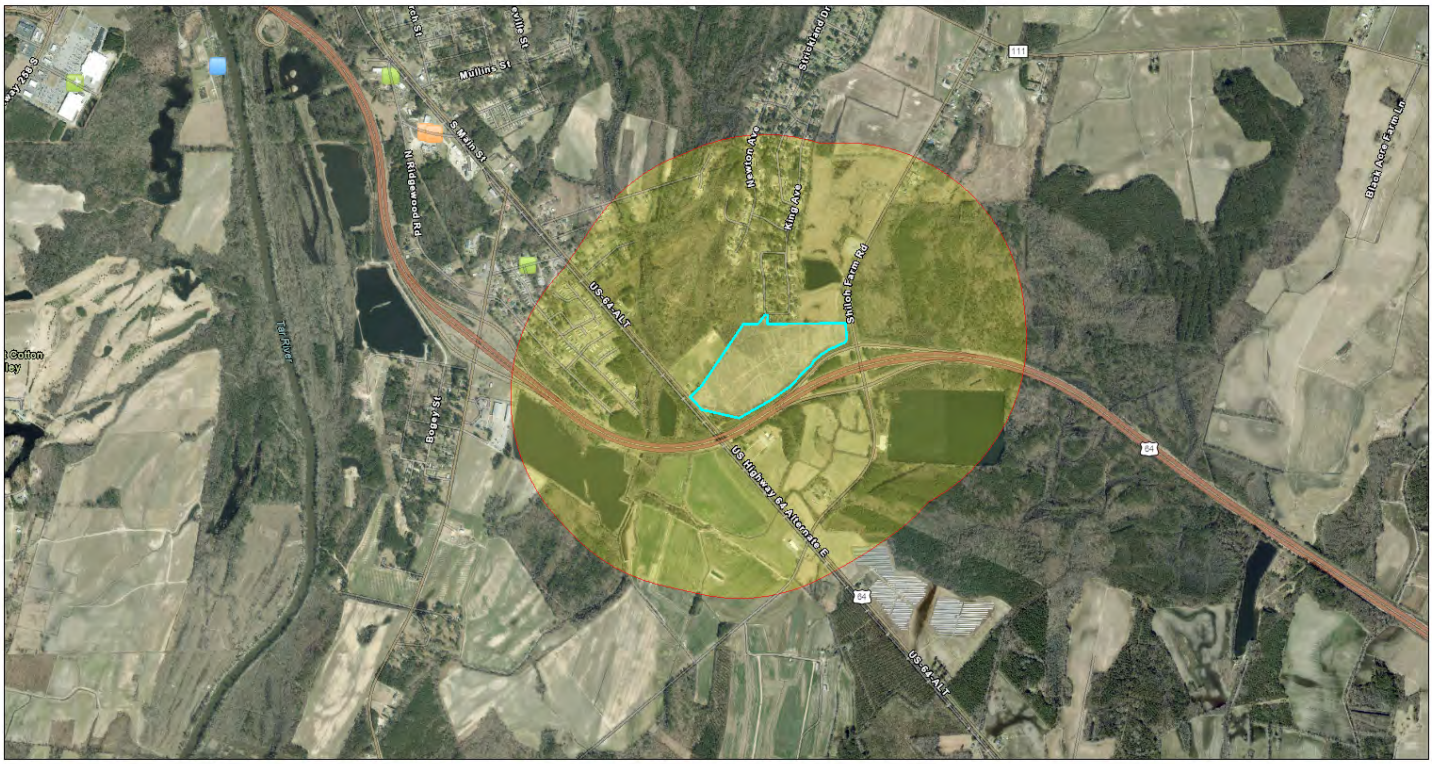
Non-UST Incidents

#	IncidentNumber	IncidentName	Count
1	92487	Sygma Spill	1

NEPAssist Report

Princeville 53-Acre Site Redevelopment - EPA Facilities 3,000-foot Buffer

A3 Landscape



October 9, 2023

1:22,358

0 0.23 0.45 0.9 mi

0 0.35 0.7 1.4 km

Water Dischargers (NPDES)
Hazardous Waste (RCRAInfo)
Hazardous Waste (RCRAInfo)
Brownfields (ACRES)
Project Buffer
Princeville 53-Acre Site Redevelopment - EPA Facilities 3,000-foot Buffer

NC CGIA, Maxar, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Input Coordinates: 35.871448,-77.502892,35.870726,-77.502806,35.870570,-77.502924,35.870248,-77.503804,35.869996,-77.504286,35.869700,-77.504694,35.869492,-77.504844,35.869344,-77.505102,35.868561,-77.505992,35.867883,-77.507205,35.867109,-77.508889,35.867492,-77.510981,35.868083,-77.511657,35.868553,-77.511035,35.871422,-77.508642,35.871413,-77.507805,35.871830,-77.507441,35.871796,-77.507269,35.871413,-77.507301,35.871448,-77.502892

Project Area	0.08 sq mi
Within 3000 feet of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	yes
Within 3000 feet of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Federal Land?	no
Within 3000 feet of an impaired stream?	no
Within 3000 feet of an impaired waterbody?	no
Within 3000 feet of a waterbody?	yes
Within 3000 feet of a stream?	yes
Within 3000 feet of an NWI wetland?	Available Online
Within 3000 feet of a Brownfields site?	no
Within 3000 feet of a Superfund site?	no

Within 3000 feet of a Toxic Release Inventory (TRI) site?	no
Within 3000 feet of a water discharger (NPDES)?	no
Within 3000 feet of a hazardous waste (RCRA) facility?	no
Within 3000 feet of an air emission facility?	no
Within 3000 feet of a school?	no
Within 3000 feet of an airport?	no
Within 3000 feet of a hospital?	no
Within 3000 feet of a designated sole source aquifer?	no
Within 3000 feet of a historic property on the National Register of Historic Places?	no
Within 3000 feet of a Toxic Substances Control Act (TSCA) site?	no
Within 3000 feet of a Land Cession Boundary?	no
Within 3000 feet of a tribal area (lower 48 states)?	no
Within 3000 feet of the service area of a mitigation or conservation bank?	no
Within 3000 feet of the service area of an In-Lieu-Fee Program?	yes
Within 3000 feet of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 3000 feet of a Munitions Response Site?	no
Within 3000 feet of an Essential Fish Habitat (EFH)?	no
Within 3000 feet of a Habitat Area of Particular Concern (HAPC)?	no
Within 3000 feet of an EFH Area Protected from Fishing (EFHA)?	no
Within 3000 feet of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 3000 feet of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within 3000 feet of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

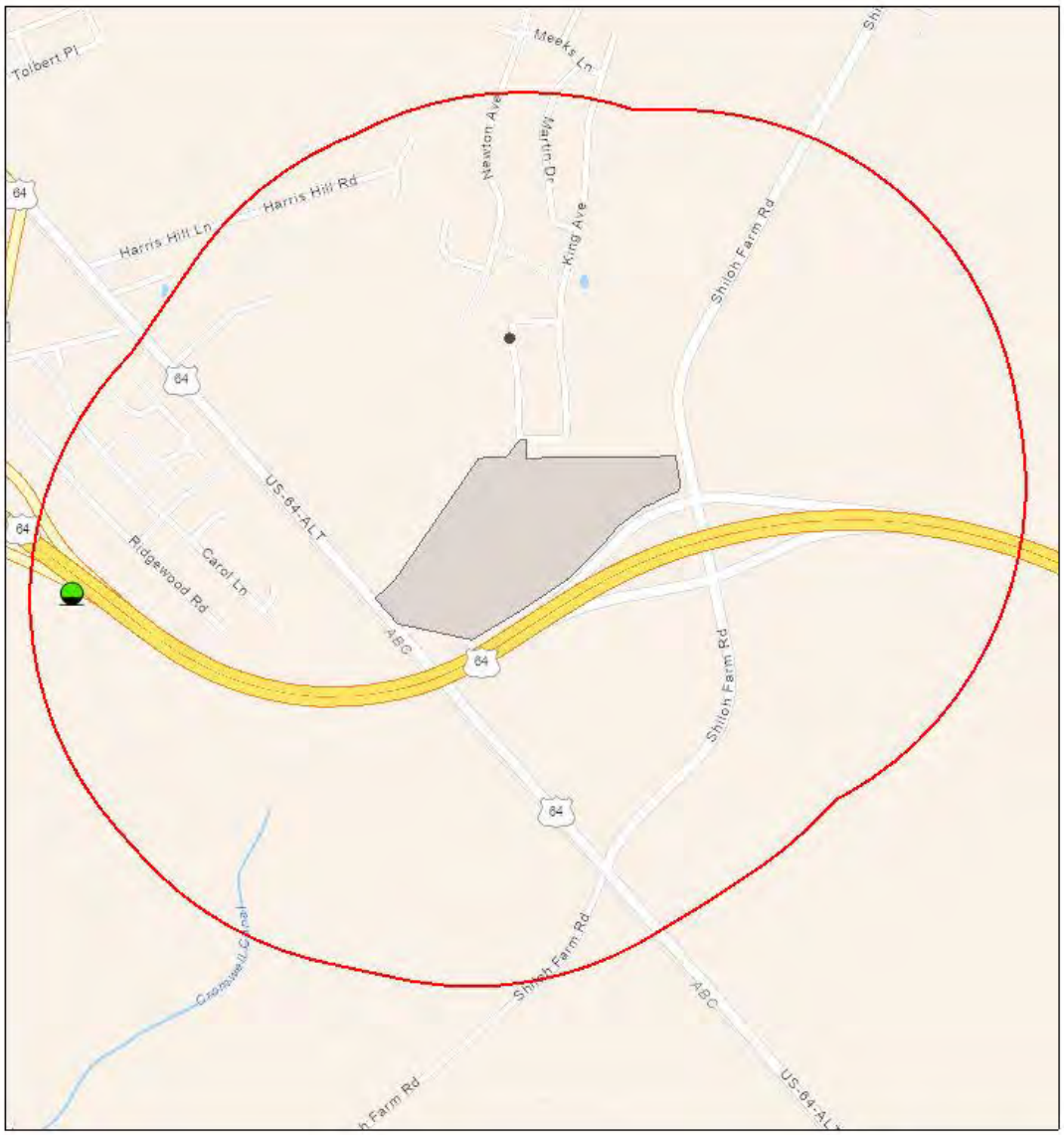
Created on: 10/9/2023 4:15:31 PM

Princeville 53-Acre Site - 3,000-foot Buffer Screening Report

Area of Interest (AOI) Information

Area : 50,959,382.94 ft²

Oct 10 2023 13:57:31 Eastern Daylight Time



Non-UST Incidents

Low Risk

County Boundary

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

NCDOT GIS Unit, Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Non-UST Incidents

#	IncidentNumber	IncidentName	Count
1	92487	Sygma Spill	1

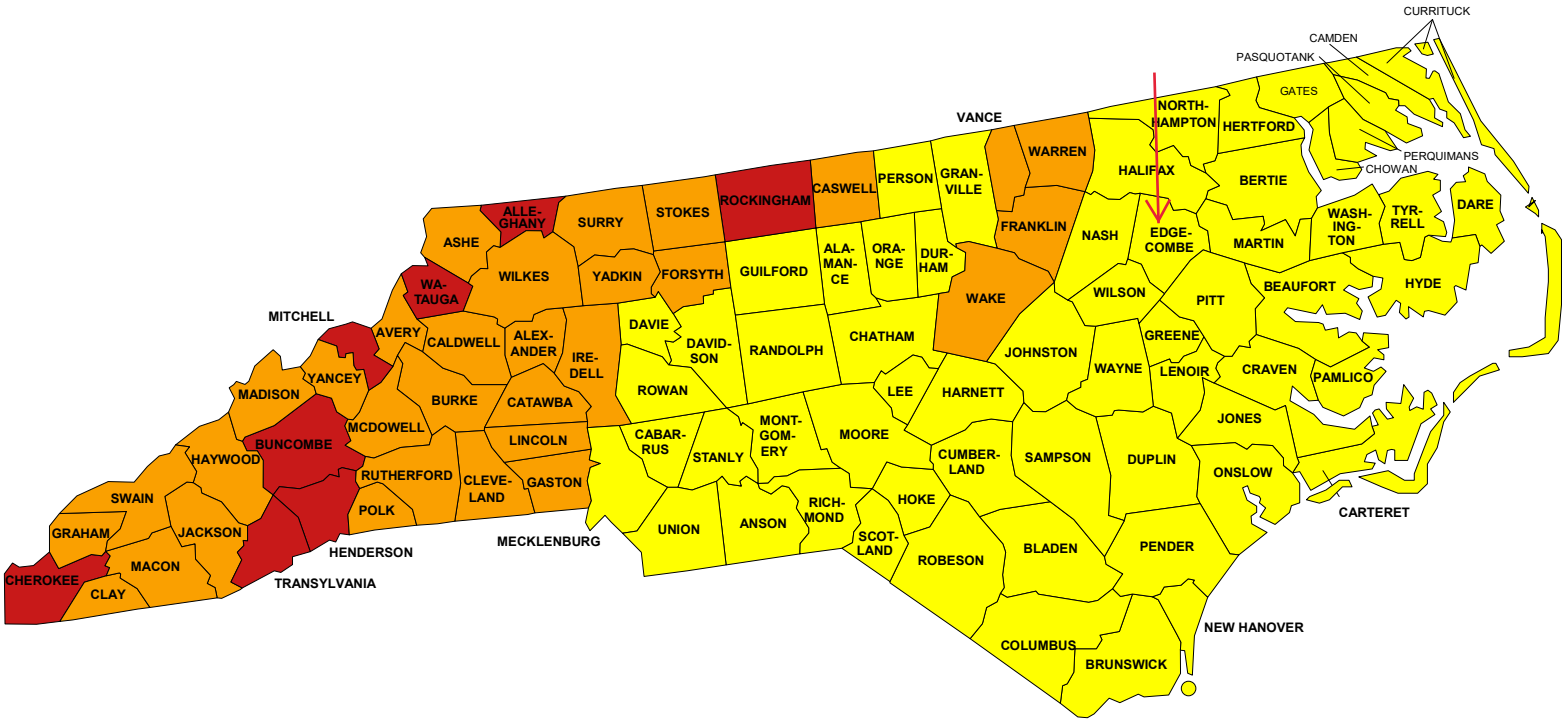
NORTH CAROLINA - EPA Map of Radon Zones

http://www.epa.gov/radon/zonemap.html

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

All homes should be tested, regardless of zone designation.



IMPORTANT: Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of North Carolina" (USGS Open-file Report 93-292-D) before using this map. http://energy.cr.usgs.gov/radon/grpinfo.html This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.

Zone 1 Zone 2 Zone 3

ATTACHMENT 8:

Endangered Species

USFWS and NCORR Correspondence and
USFWS Raleigh FO 10-step Package

Gievers, Andrea

From: Gievers, Andrea
Sent: Thursday, November 2, 2023 11:05 AM
To: Raleigh, FW4
Cc: Mann, Leigh
Subject: Self Certification - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 acre site USFWS Self Cert Pkg 11.2.23 rdcd.pdf

Hello:

Please accept the **Princeville 53-Acre Site Redevelopment** project Self-Certification Letter and supporting *No Effect* and *May Affect, Not Likely to Adversely Affect* documentation for your records. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project. The proposed project is located at a **53-acre site located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**. During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. The 53-acre site is currently a mostly undeveloped field/ recently logged land containing dense vegetation with a few trees remaining and some new growth, smaller trees. The site plans identify approximately 12 trees that will be removed from the 53-acre site and 5 trees from the residential 1029 Lynch Drive parcel. The proposed project activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Please feel free to contact me if you have any questions. Thank you for your time and assistance!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 2, 2023

Mr. John Ellis
U.S. Fish and Wildlife Service
Raleigh ES Field Office
P.O. Box 33726
Raleigh, NC 27636-3726

Sent Via Email: Raleigh@fws.gov
Leigh_Mann@fws.gov

RE: Section 7 Project Review - No Effect & NLAA Determination
NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Ellis:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's

commercial and institutional structures were damaged. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

The purpose of this letter is to provide the U.S. Fish and Wildlife Service – Raleigh ES Field Office (USFWS) notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as well as the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703–712) and the Bald and Golden Eagle Protection Act (BGEPA) (16 U.S.C. 668-668c, 54 Stat. 250), as amended.

We have reviewed the proposed project using the USFWS Raleigh Ecological Services' online 10-step project review process and made "**No Effect**" determinations for proposed/ listed species and/ or proposed/ designated critical habitat except for "**May Affect, Not Likely to Adversely Affect**" the Northern Long-eared Bat, Tricolored Bat, and Monarch Butterfly determinations, and a "**No Eagle Act Permit Required**" determination for Bald Eagles were made. Please find attached the Self-certification Letter and 10-step Project Review Package prepared in conjunction with Terracon for the proposed project in accordance with all instructions provided, using the best available information to reach our conclusions.

Project Location: The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886 (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres (**Attachment 1**). There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West.

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the

existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM).
The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The proposed project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.

The USFWS Information for Planning and Consultation (IPaC) Official Species List identified a total of eight proposed, threatened, endangered, or candidate species, seven migratory Birds of Conservation Concern (BCC) and the Bald Eagle as species with the potential to occur within the vicinity of the Subject Property. The eight proposed, threatened, endangered, or candidate species include two mammals (Northern Long-eared Bat [NLEB] and Tricolored Bat), one amphibian (Neuse River Waterdog), one fish (Carolina Madtom), three clams (Atlantic Pigtoe, Green Floater, and Yellow Lance), and one insect (Monarch Butterfly). The NC Natural Heritage Program (NHP) database query report identified no federal or State-listed species within one mile of the Subject Property. Based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the Subject Property. There are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts.

None of the above-listed species or potential habitat were observed during the site visits. The 53-acre site is currently a mostly undeveloped field/ recently logged land containing dense vegetation with a few trees remaining and some new growth, smaller trees. The site plans identify approximately 12 trees that will be removed from the 53-acre site and 5 trees from the residential 1029 Lynch Drive parcel. The Subject Property appears in historical aerial photos to be recently

cleared (2016) and the Phase I ESA noted the 53-acre site was undeveloped and appears to be recently cleared (2017 – 2021). Thus, the site is no longer densely-forested woodland. The NC NHP was consulted for additional information on the NLEB and Tricolored Bat. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, there are no documented Tricolored Bat in the area. There are no documented NLEB hibernacula within 0.25 mile of this project boundary or NLEB maternity roost trees within 150 feet of this project boundary. The NLEB Determination Key resulted in a "**May Affect, Not Likely to Adversely Affect**" determination. Due to the dense vegetation, there is potential habitat for the Monarch Butterfly but no species or milkweed were observed during the site visits. According to the U.S. Army Corps of Engineers (USACE), there is "one jurisdictional wetland identified in the southwestern corner of the site." There are no other wetland features located on the Subject Property. Two ephemeral streams were reviewed by the NC DEQ Division of Water Resources (DWR) and have been "determined to not be at least intermittent or is not present." Thus, these are not sufficient streams or wetland to provide suitable habitat for the one fish (Carolina Madtom) and three clams (Atlantic Pigtoe, Green Floater, and Yellow Lance) identified in the IPaC Official Species List. It is anticipated that effects on migratory birds will be limited because a small number of trees will be removed during construction, and any migratory birds in the area will temporarily leave the area during construction.

NCORR is submitting the above information as notification of its "**No Effect**" determinations for proposed/ listed species and/ or proposed/ designated critical habitat except for "**May Affect, Not Likely to Adversely Affect"** the Northern Long-eared Bat, Tricolored Bat, and Monarch Butterfly determinations, and a "**No Eagle Act Permit Required**" determination for Bald Eagles, and requests *acknowledgement* from USFWS that they have received this determination on the proposed project for migratory birds, endangered/threatened species, or critical habitat for species under USFWS jurisdiction.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Attachments:

- Self-certification Letter
- 10-step Project Review Package

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Ecological Services Field Office
Post Office Box 33726
Raleigh, NC 27636-3726
Phone: (919) 856-4520 Fax: (919) 856-4556

In Reply Refer To: October 30, 2023
Project Code: 2024-0009420
Project Name: Princeville 53-Acre Site Redevelopment

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). If your project area contains suitable habitat for any of the federally-listed species on this species list, the proposed action has the potential to adversely affect those species. If suitable habitat is present, surveys should be conducted to determine the species' presence or absence within the project area. The use of this species list and/or North Carolina Natural Heritage program data should not be substituted for actual field surveys.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Raleigh Ecological Services Field Office
Post Office Box 33726
Raleigh, NC 27636-3726
(919) 856-4520

PROJECT SUMMARY

Project Code: 2024-0009420
Project Name: Princeville 53-Acre Site Redevelopment
Project Type: Mixed-Use Construction
Project Description: The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30” RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre

site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM).

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.869486249999994,-77.50756065099911,14z

Counties: Edgecombe County, North Carolina

ENDANGERED SPECIES ACT SPECIES

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

AMPHIBIANS

NAME	STATUS
Neuse River Waterdog *Necturus lewisi* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6772	Threatened

FISHES

NAME	STATUS
Carolina Madtom *Noturus furiosus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/528	Endangered

CLAMS

NAME	STATUS
Atlantic Pigtoe *Fusconaia masoni* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5164	Threatened
Green Floater *Lasmigona subviridis* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7541	Proposed Threatened
Yellow Lance *Elliptio lanceolata* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4511	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

---

1. The Bald and Golden Eagle Protection Act of 1940.

2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read the supplemental information and specifically the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

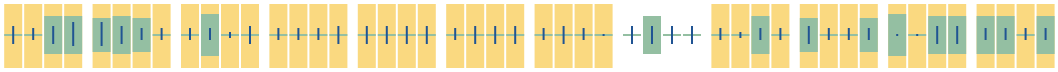
Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Bald Eagle
Non-BCC
Vulnerable



Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

---

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Kestrel *Falco sparverius paulus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9587	Breeds Apr 1 to Aug 31
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

NAME	BREEDING SEASON
Brown-headed Nuthatch *Sitta pusilla* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9427	Breeds Mar 1 to Jul 15
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Prairie Warbler *Dendroica discolor* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9513	Breeds May 1 to Jul 31
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read the supplemental information and specifically the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

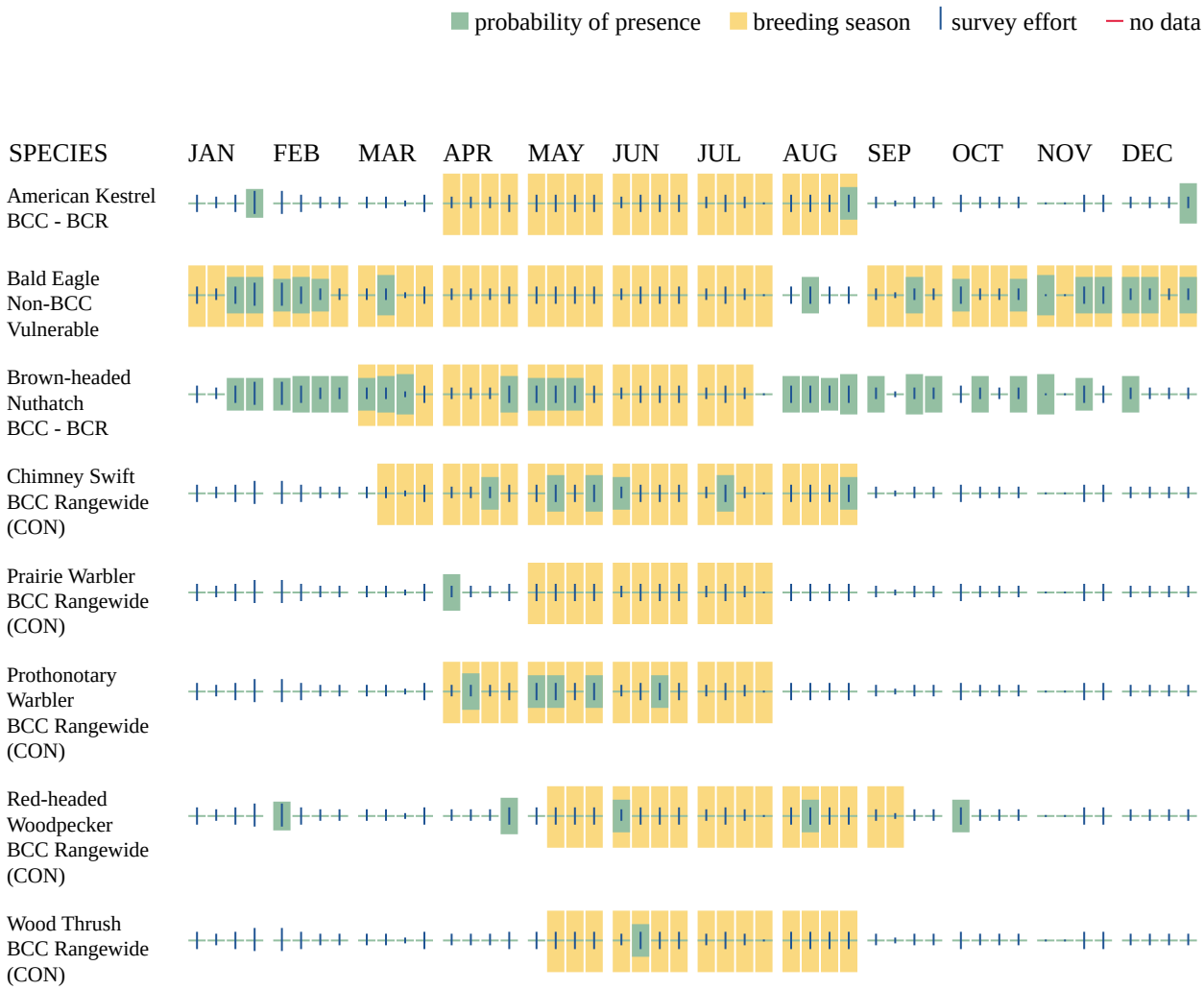
Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
Name: Andrea Gievers
Address: P.O. Box 110465
City: Durham
State: NC
Zip: 27709
Email andrea@arcolaenv.com
Phone: 8456821700

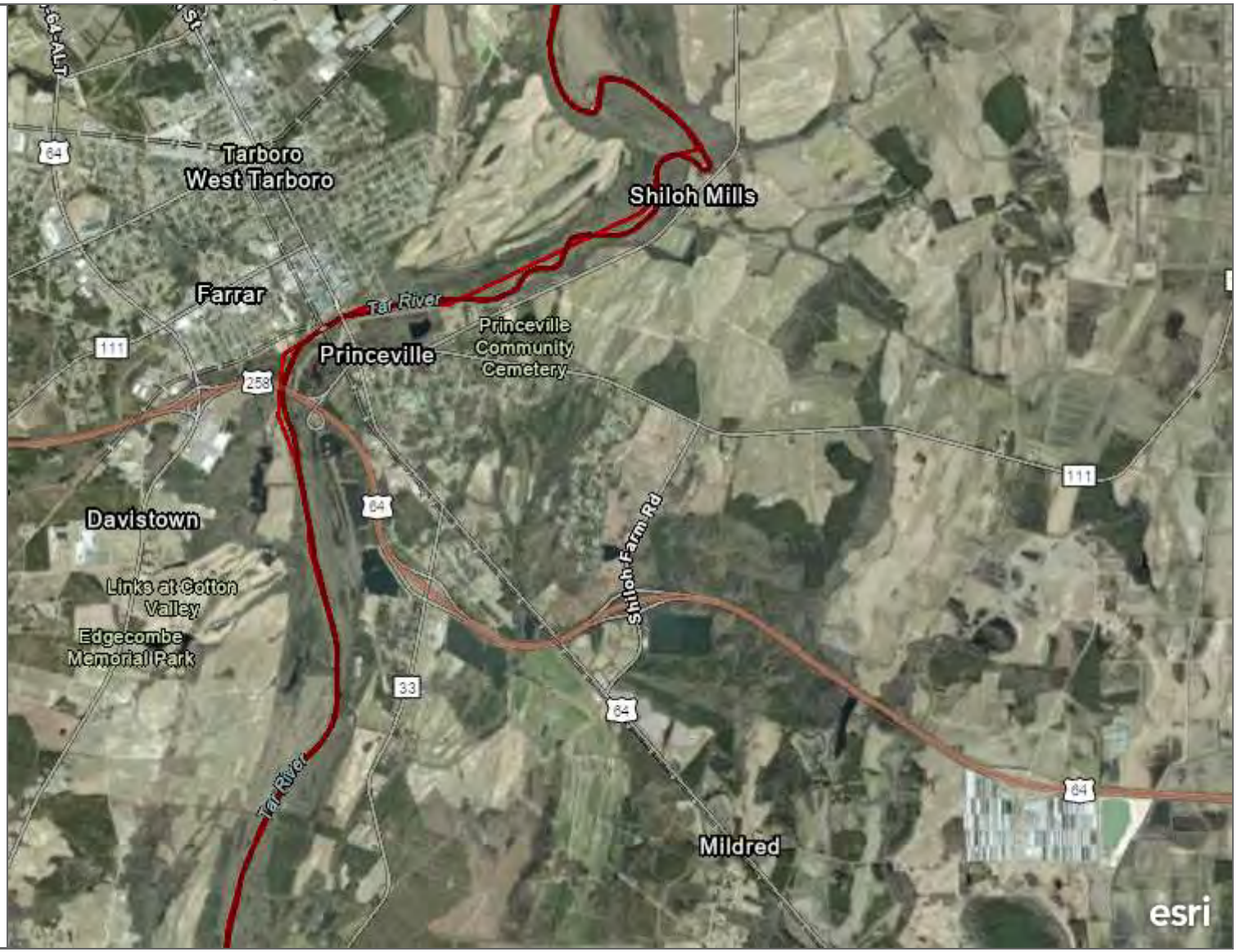
Critical Habitat for Threatened & Endangered Species [USFWS]

Final Polygon Features

Final Linear Features

Proposed Polygon Features

Proposed Linear Features



A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

1mi

NC CGIA, Earthstar Geographics | State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Critical Habitat Report

NMFS

Area of Interest (AOI) Information

Area : 11.67 km²

Oct 26 2023 12:09:49 Eastern Daylight Time

All_critical_habitat_line_20220404

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph

Summary

Name	Count	Area(km²)	Length(m)
All Critical Habitat Polyline	0	N/A	0
All Critical Habitat Polygon	0	0	N/A

NC DEPARTMENT OF
NATURAL AND CULTURAL RESOURCES

Roy Cooper, **Governor**

D. Reid Wilson, **Secretary**

Misty Buchanan
Deputy Director, Natural Heritage Program

NCNHDE-23767

October 26, 2023

Andrea Gievers
NCORR
P.O. Box 110465
Durham, NC 27709
RE: Princeville 53-Acre Site Redevelopment

Dear Andrea Gievers:

The North Carolina Natural Heritage Program (NCNHP) appreciates the opportunity to provide information about natural heritage resources for the project referenced above.

Based on the project area mapped with your request, a query of the NCNHP database indicates that there are no records for rare species, important natural communities, natural areas, and/or conservation/managed areas within the proposed project boundary. Please note that although there may be no documentation of natural heritage elements within the project boundary, it does not imply or confirm their absence; the area may not have been surveyed. The results of this query should not be substituted for field surveys where suitable habitat exists. In the event that rare species are found within the project area, please contact the NCNHP so that we may update our records.

The attached 'Potential Occurrences' table summarizes rare species and natural communities that have been documented within a one-mile radius of the property boundary. The proximity of these records suggests that these natural heritage elements may potentially be present in the project area if suitable habitat exists. Tables of natural areas and conservation/managed areas within a one-mile radius of the project area, if any, are also included in this report.

If a Federally-listed species is found within the project area or is indicated within a one-mile radius of the project area, the NCNHP recommends contacting the US Fish and Wildlife Service (USFWS) for guidance. Contact information for USFWS offices in North Carolina is found here: https://www.fws.gov/offices/Directory/ListOffices.cfm?statecode=37.

Please note that natural heritage element data are maintained for the purposes of conservation planning, project review, and scientific research, and are not intended for use as the primary criteria for regulatory decisions. Information provided by the NCNHP database may not be published without prior written notification to the NCNHP, and the NCNHP must be credited as an information source in these publications. Maps of NCNHP data may not be redistributed without permission.

The NC Natural Heritage Program may follow this letter with additional correspondence if a Dedicated Nature Preserve, Registered Heritage Area, Land and Water Fund easement, or Federally-listed species are documented near the project area.

If you have questions regarding the information provided in this letter or need additional assistance, please contact the NCNHP at natural.heritage@dncr.nc.gov.

Sincerely,
NC Natural Heritage Program

No Element Occurrences are Documented Within a One-mile Radius of the Project Area

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Tarboro Floodplain	R3 (High)	C4 (Moderate)

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
Edgecombe County Open Space	Edgecombe County	Local Government
Edgecombe County Open Space	Edgecombe County	Local Government
Edgecombe County Open Space	Edgecombe County	Local Government
Edgecombe County Open Space	Edgecombe County	Local Government
NC Department of Transportation Mitigation Site	NC Department of Transportation	State
NC Wildlife Resources Commission Newbold Pond Public Fishing Area	NC Wildlife Resources Commission	State
Town of Princeville Open Space	Town of Princeville	Local Government
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
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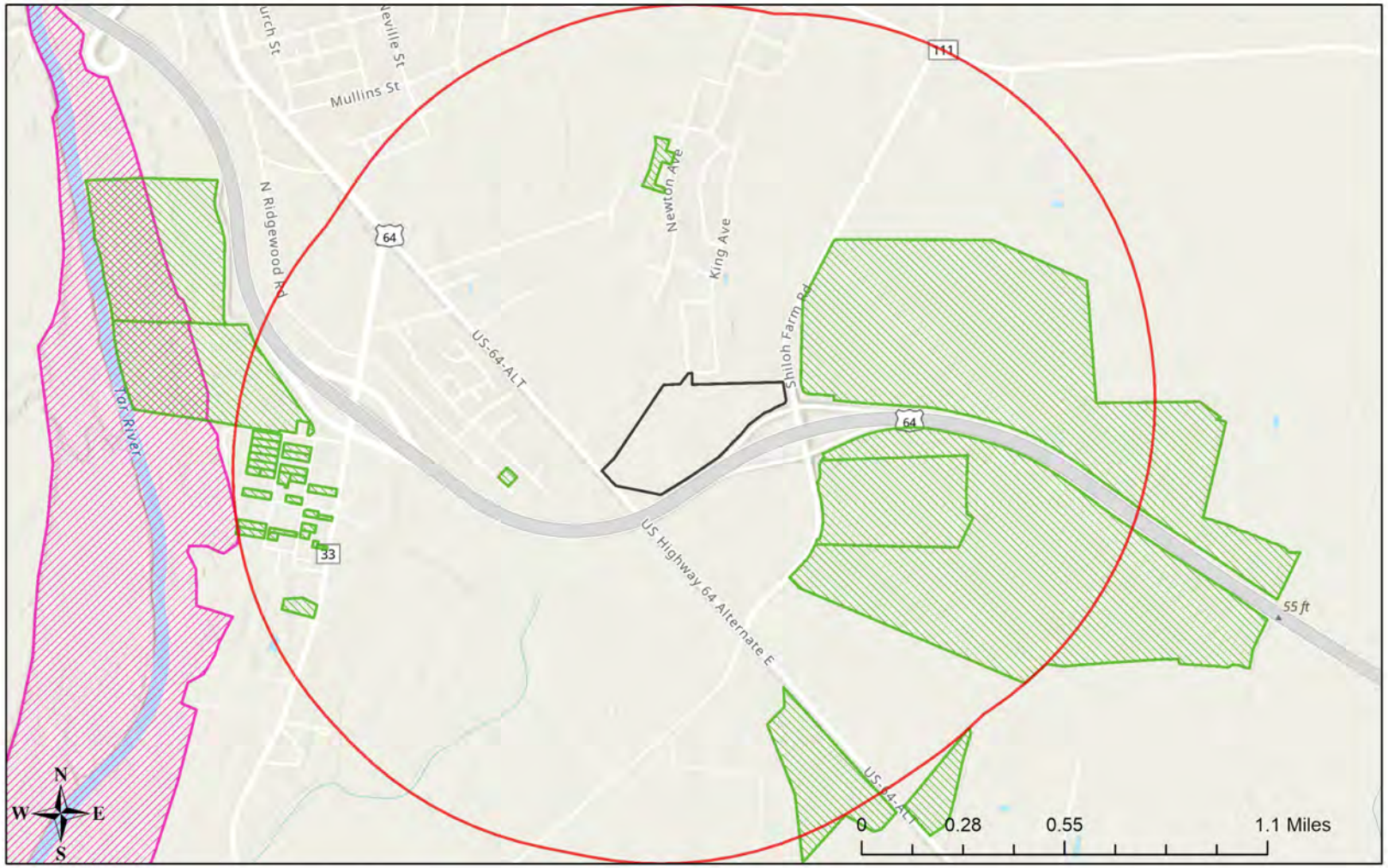
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
NC Hazard Mitigation Buyout Property - Edgecombe County	NC DPS, Division of Emergency Management	State
Conservation Reserve Enhancement Program Easement	NC Department of Agriculture, Division of Soil and Water Conservation	State

Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
Conservation Reserve Enhancement Program Easement	NC Department of Agriculture, Division of Soil and Water Conservation	State

Definitions and an explanation of status designations and codes can be found at https://ncnhde.natureserve.org/help. Data query generated on October 26, 2023; source: NCNHP, Fall (October) 2023. Please resubmit your information request if more than one year elapses before project initiation as new information is continually added to the NCNHP database.

NCNHDE-23767: Princeville 53-Acre Site Redevelopment



October 26, 2023

NHP Natural Area (NHNA)

Managed Area (MAREA)

Buffered Project Boundary

Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community
Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Gievers, Andrea

From: Ratcliffe, Judith
Sent: Friday, October 27, 2023 1:01 PM
To: Gievers, Andrea
Subject: RE: TCB Review - Princeville 53-Acre Site Redevelopment

No, none that we have documented in our files...we have already been tracking that species for a while.
I attached the project report and if we did have records that species would have shown up in the tables of species.
Hope you have a great weekend!
Judy

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Friday, October 27, 2023 12:59 PM
To: Ratcliffe, Judith <judith.ratcliffe@dncr.nc.gov>
Subject: RE: TCB Review - Princeville 53-Acre Site Redevelopment

Thanks, Judith. Are there any incidents of Tricolored Bat near the proposed project area? Happy Friday!

Sincerely,

Andrea Gievers

From: Ratcliffe, Judith <judith.ratcliffe@dncr.nc.gov>
Sent: Friday, October 27, 2023 12:50 PM
To: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Subject: RE: TCB Review - Princeville 53-Acre Site Redevelopment

Hello Andrea,
Thank you for the opportunity to review **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.
There are no documented Northern Long-eared Bat maternity roost trees within 150 feet of this project boundary.
There are no Northern Long-eared Bat hibernacula within 0.25 mile of this project boundary.
Sincerely,
Judith Ratcliffe

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Thursday, October 26, 2023 1:10 PM
To: Ratcliffe, Judith <judith.ratcliffe@dncr.nc.gov>
Subject: TCB Review - Princeville 53-Acre Site Redevelopment

Hello Judy:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**. There will be approximately 12

trees removed for water/sewer infrastructure and Phase One of this site redevelopment project. I have attached the proposed project maps, site plans, and shapefiles to assist in your Tricolored Bat review. If you have any data not provided to USFWS on the NLEB for this area, please share. Please feel free to contact me if you have any questions or need anything at all. Thank you so much for your time and assistance! I hope all is well!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Ecological Services Field Office
Post Office Box 33726
Raleigh, NC 27636-3726
Phone: (919) 856-4520 Fax: (919) 856-4556

In Reply Refer To: October 30, 2023
Project code: 2024-0009420
Project Name: Princeville 53-Acre Site Redevelopment

Federal Nexus: yes
Federal Action Agency (if applicable): State of North Carolina

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for 'Princeville 53-Acre Site Redevelopment'

Dear Andrea Gievers:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on October 30, 2023, for 'Princeville 53-Acre Site Redevelopment' (here forward, Project). This project has been assigned Project Code 2024-0009420 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (DKey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis completed by the Service, your project has reached the determination of "May Affect, Not Likely to Adversely Affect" the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your

IPaC-assisted determination was incorrect, this letter verifies that consultation on the Action is complete and no further action is necessary unless either of the following occurs:

- new information reveals effects of the action that may affect the northern long-eared bat in a manner or to an extent not previously considered; or,
- the identified action is subsequently modified in a manner that causes an effect to the northern long-eared bat that was not considered when completing the determination key.

15-Day Review Period

As indicated above, the Service will notify you within 15 calendar days if we determine that this proposed Action does not meet the criteria for a “may affect, not likely to adversely affect” (NLAA) determination for the northern long-eared bat. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the identified Ecological Services Field Office to apply local knowledge to evaluation of the Action, as we may identify a small subset of actions having impacts that we did not anticipate when developing the key. In such cases, the identified Ecological Services Field Office may request additional information to verify the effects determination reached through the Northern Long-eared Bat DKey.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Atlantic Pigtoe *Fusconaia masoni* Threatened
- Carolina Madtom *Noturus furiosus* Endangered
- Green Floater *Lasmigona subviridis* Proposed Threatened
- Monarch Butterfly *Danaus plexippus* Candidate
- Neuse River Waterdog *Necturus lewisi* Threatened
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Yellow Lance *Elliptio lanceolata* Threatened

You may coordinate with our Office to determine whether the Action may affect the species and/or critical habitat listed above. Note that reinitiation of consultation would be necessary if a new species is listed or critical habitat designated that may be affected by the identified action before it is complete.

If you have any questions regarding this letter or need further assistance, please contact the Raleigh Ecological Services Field Office and reference Project Code 2024-0009420 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Princeville 53-Acre Site Redevelopment

2. Description

The following description was provided for the project 'Princeville 53-Acre Site Redevelopment':

> The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/ open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30” RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.
>
> The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies

for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@35.869486249999994,-77.50756065099911,14z

DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect, but not likely to adversely affect” for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Your project overlaps with an area where northern long-eared bats may be present year-round. Time-of-year restrictions may not be appropriate for your project due to bats being active all year.

   Do you understand that your project may impact bats at any time during the year and time-of-year restrictions may not apply to your project?

   Yes

3. The action area does not overlap with an area for which U.S. Fish and Wildlife Service currently has data to support the presumption that the northern long-eared bat is present. Are you aware of other data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

   Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed NLEB acoustic detections. Data on captures, roost tree use, and acoustic detections should post-date the year when white-nose syndrome was detected in the relevant state. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

   No

4. Does any component of the action involve construction or operation of wind turbines?

   Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

   No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   No

9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

   No

10. Have you determined that your proposed action will have no effect on the northern long-eared bat? Remember to consider the effects of any activities that would not occur but for the proposed action.

    If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer “No” below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project’s action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a “no effect” determination for the northern long-eared bat.

    Note: Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer “No” and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of Effects of the Action can be found here: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

    No

11. Your project overlaps with an area where northern long-eared bats may be present year-round.

    Is suitable northern long-eared bat habitat present within 1000 feet of project activities?

    Yes

12. Will the action cause effects to a bridge?

    No

13. Will the action result in effects to a culvert or tunnel?

    No

14. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

    Note: Exclusion is conducted to deny bats’ entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer “Yes.” Answer “No” if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term “National Wildlife Control Operators Association bats”). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

    No

15. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

16. Will the action directly or indirectly cause construction of one or more new roads that are open to the public?

    Note: The answer may be yes when a publicly accessible road either (1) is constructed as part of the proposed action or (2) would not occur but for the proposed action (i.e., the road construction is facilitated by the proposed action but is not an explicit component of the project).

    Yes

17. Will any new road go through any area of contiguous forest that is greater than or equal to 10 acres in total extent?

    Note: "Contiguous forest" of 10 acres or more may includes areas where multiple forest patches are separated by less than 1,000 feet of non-forest if the forested patches, added together, comprise at least 10 acres.

    No

18. Will any new road pass between two patches of contiguous forest that are each greater than or equal to 10 acres in extent and are separated by less than 1,000 feet? Northern long-eared bats may cross a road by flying between forest patches that are up to 1,000 feet apart.

    Note: "Contiguous forest" of 10 acres or more may includes areas where multiple forest patches are separated by less than 1,000 feet of non-forested area if the forested patches, added together, comprise at least 10 acres.

    No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

    Note: For federal actions, answer ‘yes’ when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.). .

    Yes

20. Will the increased vehicle traffic occur on any road that lies between any two areas of contiguous forest that are each greater than or equal to 10 acres in extent and are separated by less than 1,000 feet? Northern long-eared bats may cross a road by flying between forest patches that are up to 1,000 feet apart.

    Note: "Contiguous forest" of 10 acres or more may includes areas where multiple forest patches are separated by less than 1,000 feet of non-forested area if the forested patches, added together, comprise at least 10 acres.

    No

21. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)?

    No

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

23. Will the action include drilling or blasting?

    No

24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

    No

25. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

    No

26. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

    Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

    No

27. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

    Note: Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

    No

28. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

29. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area? If unsure, answer "No."

    No

30. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

    No

31. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

    Yes

32. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your state agency or USFWS field office

    Automatically answered
    No

33. Your project overlaps with an area where northern long-eared bats may be present year-round. To minimize or avoid impacts to the northern long-eared bat, all activities affecting trees should not occur from December 15th to February 15th and April 15th to July 30th.

    Will any project activites occur from December 15th to February 15th and/or April 15th to July 30th.

    Yes

PROJECT QUESTIONNAIRE

Will all project activities by completed by April 1, 2024?

No

IPAC USER CONTACT INFORMATION

Agency: State of North Carolina
Name: Andrea Gievers
Address: P.O. Box 110465
City: Durham
State: NC
Zip: 27709
Email andrea@arcolaenv.com
Phone: 8456821700

Species Conclusions Table

Project Name: Princeville 53-Acre Site Redevelopment

Date: November 1, 2023

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
Northern Long-eared Bat (Myotis septentrionalis)	17 trees to be removed, might be suitable	May Affect, Not Likely to Adversely Affect	NLEB Key Determination & recently cleared (2017 – 2021)
Tricolored Bat (Perimyotis subflavus)	17 trees to be removed, might be suitable	May Affect, Not Likely to Adversely Affect	NC NHP documented no presence & recently cleared (2017 – 2021)
Neuse River Waterdog (Necturus lewisi)	No suitable habitat	No Effect	No aquatic habitat will be impacted, no sufficient streams present
Carolina Madtom (Noturus furiosus)	No suitable habitat	No Effect	No aquatic habitat will be impacted, no sufficient streams present
Atlantic Pigtoe (Fusconaia masoni)	No suitable habitat	No Effect	No aquatic habitat will be impacted, no sufficient streams present
Green Floater (Lasmigona subviridis)	No suitable habitat	No Effect	No aquatic habitat will be impacted, no sufficient streams present
Yellow Lance (Elliptio lanceolata)	No suitable habitat	No Effect	No aquatic habitat will be impacted, no sufficient streams present
Monarch Butterfly (Danaus plexippus)	Potential habitat	May Affect, Not Likely to Adversely Affect	Dense vegetation on site but no species/ milkweed observed
Bald Eagle	Unlikely to disturb nesting bald eagles	No Eagle Act Permit Required	No evidence of Bald Eagle or nests present, 17 trees to be removed

Acknowledgement: I agree that the above information about my proposed project is true. I used all of the provided resources to make an informed decision about impacts in the immediate and surrounding areas.

Rachel Akeane

Signature /Title

11/1/23

Date

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Raleigh Field Office
P.O. Box 33726
Raleigh, NC 27636-3726

Date: November 1, 2023

Self-Certification Letter

Project Name Princeville 53-Acre Site Redevelopment

IPaC Project Code: 2024-0009420 IPaC Record Locator #_____

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Raleigh Ecological Services online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the project named above in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA), and the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c, 54 Stat. 250), as amended (Eagle Act). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA and Eagle Act conclusions. Based on your analysis, mark all the determinations that apply:

- [x] "no effect" determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- [x] "may affect, not likely to adversely affect" determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- [x] "no Eagle Act permit required" determinations for eagles.

We certify that use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the “no effect” or “not likely to adversely affect” determinations for proposed and listed species and proposed and designated critical habitat; the “may affect” determination for Northern long-eared bat; and/or the “no Eagle Act permit required” determinations for eagles. Additional coordination with this office is not needed. Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species. Should project plans change or if additional information on the distribution of proposed or listed species, proposed or designated critical habitat, or bald eagles becomes available, this determination may be reconsidered. This certification letter is valid for 1 year. Information about the online project review process including instructions, species information, and other information regarding project reviews within North Carolina is available at our website http://www.fws.gov. If you have any questions, you can write to us at Raleigh@fws.gov or please contact Leigh Mann of this office at 919-856-4520, ext. 10.

Sincerely,

/s/Pete Benjamin

Pete Benjamin
Field Supervisor
Raleigh Ecological Services

Enclosures - project review package

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Copyright:© 2013 National Geographic Society, i-cubed

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-0.02

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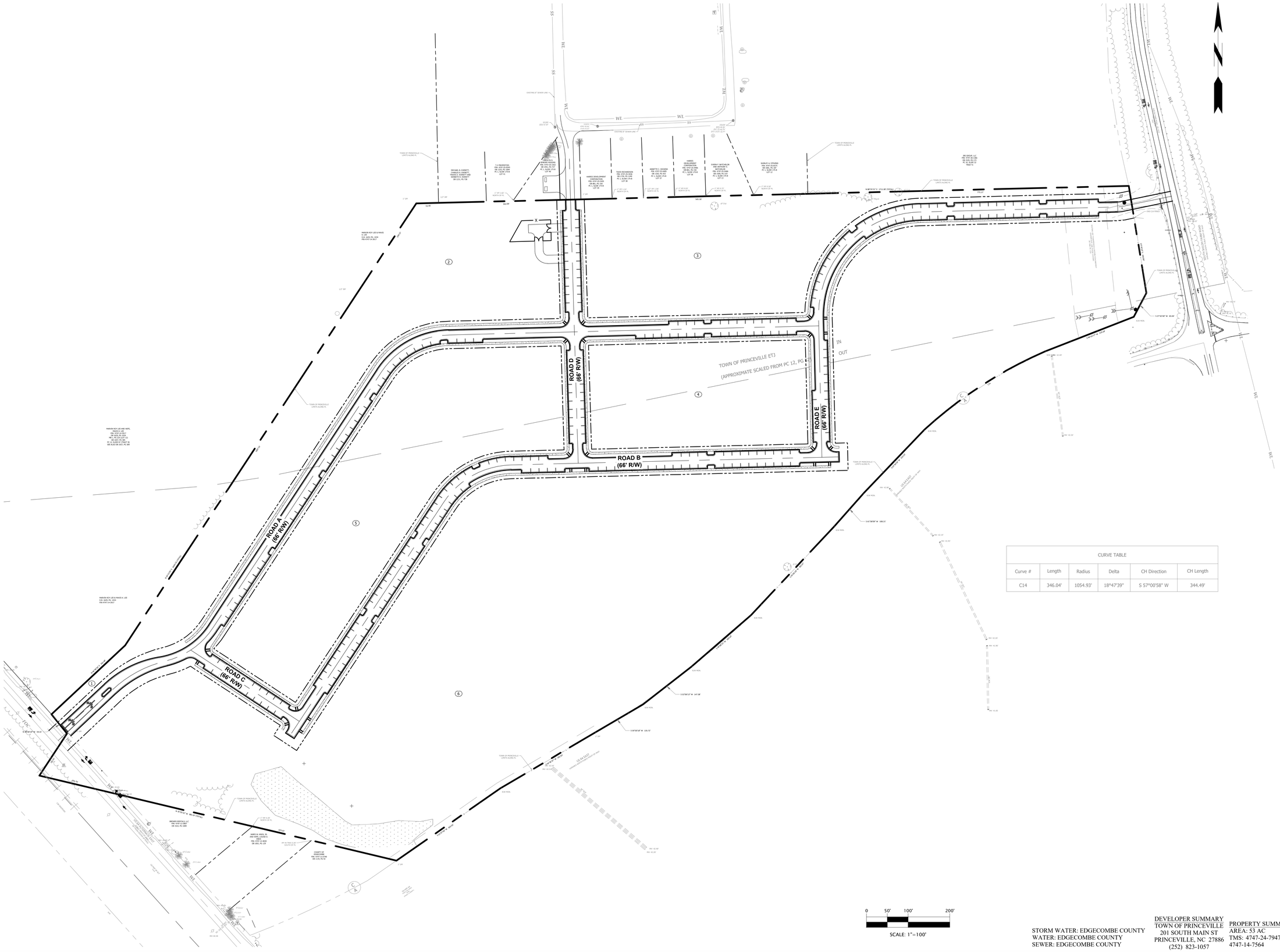

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.00

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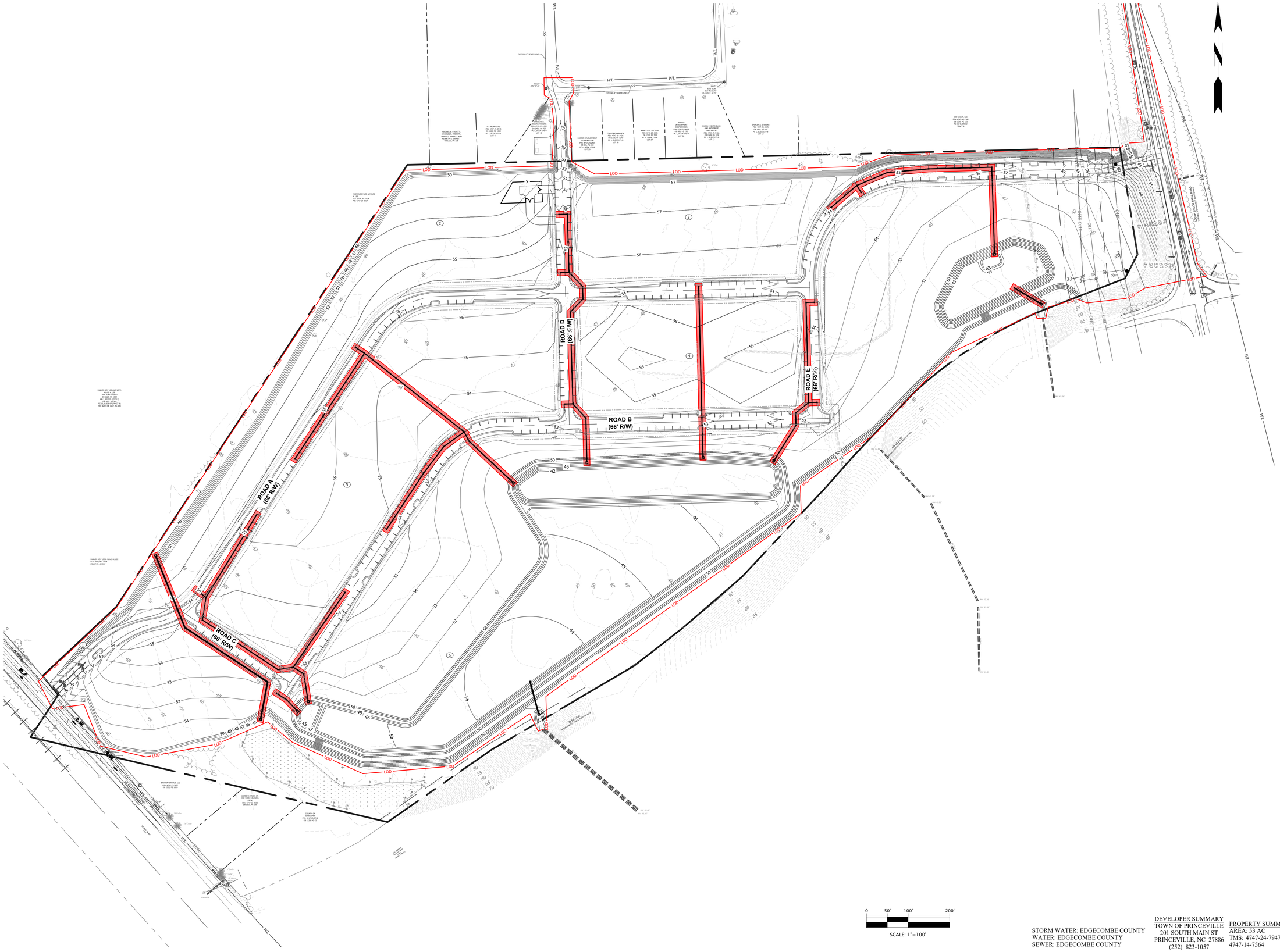


STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-3.00

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GRADING.dwg JNIXON 7/13/2023 4:08 PM

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

SITE DIAGRAM

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit
2

Princeville 53-Acre Site Redevelopment

Google Earth - June 13, 2023

Princeville 53-Acre Site Redevelopment

Google Earth - April 25, 2021

Photo 1 Near South Shiloh Farm Road and the eastern side of the site, looking west across the site.

Photo 2 A view of the southeastern corner of the site and showing a powerline easement that extends across the eastern side of the site. A ramp for US Highway 64 is in the background of this photo. Cardboard box debris was noted and is slightly visible in this photo at the top of the ramp.

Photo 3 A typical view across the eastern interior of the site showing dense vegetative overgrowth that was observed across the majority of the site.

Photo 4 One of several areas noted of standing water or surface water on the site. This photo is of one of several drainage ditches observed onsite.

Photo 5 Another typical view of the interior of the site.

Photo 6 Another view of the interior of the site.

Photo 7 From US 64 Alternate or the western side of the site, looking east across the western larger side of the site.

Photo 8 From US 64 Alternate, looking east across the cemetery located on one of the western adjoining properties to the site.

ATTACHMENT 9:

Explosive and Flammable Hazards

Signed HUD Thermal and Explosive Hazards Worksheet, AST Aerial Map with 1-mile Radius, NCORR Telephone Conversation Record, and HUD ASD Assessment Tool Results

Thermal and Explosive Hazards

Project Name	Investigator(s)	Site Visit Date
Town of Princeville	Rachel Keane – Terracon Consultants	August 2023

Part I –Above Ground Storage Tanks – Field Observations

Are any above ground storage tanks visible from the site?
☐ Yes ☒ No

If yes, are these tanks 100-gallons or larger?
☐ Yes ☐ No

List visible tanks							
Tank Identifier	**Tank Distance (ft.)**	**Tank Size/Contents**	**Flammable? (Yes or No)**	**Pressurized? (Yes or No)**	**ASD[1] (ft) Thermal Radiation (People)**	**ASD (ft) Thermal Radiation (Buildings)**	**ASD (ft) Blast Over Pressure**

[1]ASD = Acceptable Separation Distance as defined in "Siting of HUD-Assisted Projects Near Hazardous Facilities"

Is the project site within the ASD of any above ground storage tank visible from the site?
☐ Yes ☐ No ☒ N/A

If yes, list the proposed mitigation strategies or reject the site?

Mitigation (attach additional documentation

Part II –Above Ground Storage Tanks – Agency Consultation

Has consultation with the Local Planning, Building, Public Safety or Fire Department indicated the presence of existing or planned thermal/explosive hazards that may affect the site (Attach record of consultation)?

☒ Yes ☐ No ☐ Awaiting Response

If yes, list the proposed mitigation strategies or reject the site?

Mitigation (attach additional documentation
Volunteer Fire Station – call to station made with no answer
Tarboro Fire Department – call to station make with no answer
Email sent to Ecpvfd17@gmail.com sent – no response

Part III – Above Ground Storage Tanks – Record Review

Are above ground storage tanks, which are visible on aerial photographs and USGS topographic maps, located within 1-mile of the site (Attach copies of documents reviewed)?

☒Yes ☐No

If yes, are these tanks 100-gallons or larger?

☒Yes ☐No

Tank Identifier	Tank Distance (ft.)	Tank Size/Contents	Flammable? (Yes or No)	Pressurized? (Yes or No)	ASD (ft) Thermal Radiation (People)	ASD (ft) Thermal Radiation (Buildings)	ASD (ft) Blast Over Pressure
679 NC-33, Taroboro, NC	3850	Unknown***	Yes	No	134.85	22.82	NA

*** - Aerial imagery shows the ASTs to be diked (36"x20")

Is the project site within the ASD of any above ground storage tank?

☐Yes ☒No

If yes, are there acceptable barriers (natural or manmade) between the site and the tank?

☐Yes ☐No

Identify Acceptable Barriers[2]

[2]Acceptable barriers must meet the conditions of 24 CFR § 51.205

If no, list the proposed mitigation strategies or reject the site?

Mitigation (attach additional documentation
Additional Comments or Recommendations

Rachel Akeare

Lead Investigator's Signature

9-6-2023

Date

Princeville 53-Acre Site Redevelopment

1-mile Radius AST Search

3850 feet
Fuel ASTs
ASD E
Ridgewood Rd
Lyons Ln
Carolyn
Dowens St
US Hwy 64
33
64
Google Earth
2000 ft
N

TELEPHONE CONVERSATION RECORD

PROJECT: Princeville 53-Acre Site Redevelopment

DATE: November 6, 2023

TIME: 2:43 PM

PARTICIPANTS: Andrea Gievers, NCORR Environmental SME, and Edgecombe-Martin County Electric Membership Corporation (EMC)

CONTACT INFO: (252) 823-2171

RE: Aboveground Storage Tanks

Conversation Notes:

EMC staff (Jeremy) returned my call and stated that there is one 10,000-gallon diesel AST and one 10,000-gallon gasoline AST at their site.

Acceptable Separation Distance (ASD) Electronic Assessment Tool

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft^2 - hr - people and 10,000 BTU/ft^2 - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD- Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Sitting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Acceptable Separation Distance Assessment Tool

Is the container above ground?	**Yes:** ☑ **No:** ☐
Is the container under pressure?	**Yes:** ☐ **No:** ☑
Does the container hold a cryogenic liquified gas?	**Yes:** ☐ **No:** ☐
Is the container diked?	**Yes:** ☑ **No:** ☐
What is the volume (gal) of the container?	
What is the Diked Area Length (ft)?	36
What is the Diked Area Width (ft)?	20
Calculate Acceptable Separation Distance	
Diked Area (sqft)	720
ASD for Blast Over Pressure (ASDBOP)	

ASD for Thermal Radiation for People (ASDPPU)	
ASD for Thermal Radiation for Buildings (ASDBPU)	
ASD for Thermal Radiation for People (ASDPNPD)	134.85
ASD for Thermal Radiation for Buildings (ASDBNPD)	22.82

For mitigation options, please click on the following link: Mitigation Options **(/resource/3846/acceptable-separation-distance-asd-hazard-mitigation-options/)**

Providing Feedback & Corrections

After using the ASD Assessment Tool following the directions in this User Guide, users are encouraged to provide feedback on how the ASD Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool.

Please send comments or other input using the **Contact Us (https://www.hudexchange.info/contact-us/)** form.

Related Information

- **ASD User Guide (/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/)**
- **ASD Flow Chart (/resource/3840/acceptable-separation-distance-asd-flowchart/)**

ATTACHMENT 10:

Farmlands Protection

Completed USDA AD 1006 Farmland Conversion Impact Rating Form, USDA NRCS and NCORR Correspondence, and NCORR USDA NRCS Review Package

Proposed Project's USDA AD 1006 Farmland Conversion Impact Rating Form completed by USDA NRCS and NCORR

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 11/1/2023
Name of Project Princeville 53-Acre Site Redevelopment	Federal Agency Involved HUD
Proposed Land Use Municipal, commercial, residential	County and State Edgecombe County, North Carolina
PART II *(To be completed by NRCS)*	Date Request Received By NRCS 11/1/2023 / Person Completing Form: Laurie F. Muzzy

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☑ NO ☐	Acres Irrigated 0	Average Farm Size 598

Major Crop(s) corn	Farmable Land In Govt. Jurisdiction Acres: 89.45% 290,157	Amount of Farmland As Defined in FPPA Acres: 89.45% 290,157
Name of Land Evaluation System Used Edgecombe County LESA	Name of State or Local Site Assessment System NA	Date Land Evaluation Returned by NRCS 12/4/2023

PART III *(To be completed by Federal Agency)*	Alternative Site Rating Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	53.28			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	53.28			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	35.5			
B. Total Acres Statewide Important or Local Important Farmland	18.8			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.017%			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	58.57%			
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	59.56			

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)	10			
2. Perimeter In Non-urban Use	(10)	9			
3. Percent Of Site Being Farmed	(20)	20			
4. Protection Provided By State and Local Government	(20)	0			
5. Distance From Urban Built-up Area	(15)	9			
6. Distance To Urban Support Services	(15)	0			
7. Size Of Present Farm Unit Compared To Average	(10)	0			
8. Creation Of Non-farmable Farmland	(10)	10			
9. Availability Of Farm Support Services	(5)	2			
10. On-Farm Investments	(20)	0			
11. Effects Of Conversion On Farm Support Services	(10)	0			
12. Compatibility With Existing Agricultural Use	(10)	9			
TOTAL SITE ASSESSMENT POINTS	160	69	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	59.56	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	69	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	128.56	0	0	0

Site Selected: A	Date Of Selection 12/4/23	Was A Local Site Assessment Used? YES ☐ NO ☑

Reason For Selection:

The site is ideal because it is located very close to Town but outside of floodplain and the site was purchased by NCEM in 2017 and deeded to the Town.

Name of Federal agency representative completing this form: Andrea Gievers	Date: 12/4/23

(See Instructions on reverse side) **Form AD-1006 (03-02)**

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

Step 1 - Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, http://fppa.nrcs.usda.gov/lesa/.

Step 2 - Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s)of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at http://offices.usda.gov/scripts/ndISAPI.dll/oip_public/USA_map, or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)

Step 3 - NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.

Step 4 - For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.

Step 5 - NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.

Step 6 - The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office.

Step 7 - The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA.

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

(For Federal Agency)

Part I: When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

Part III: When completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

Part VI: Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighed a maximum of 25 points and criterion #11 a maximum of 25 points.

2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160.
Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \text{ X } 160 = 144 \text{ points for Site A}$$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.

United States Department of Agriculture
National Agricultural Statistics Service

2017 Census of Agriculture

Chapter 2, Table 9 - Harvested Cropland by Size of Farm and Acres Harvested

Export Data CSV View PDF

Update Grid

Census Chapter: 2 - State/County Level Data

Census Table: 9 - Harvested Cropland by Size of Farm and

State: NORTH CAROLINA

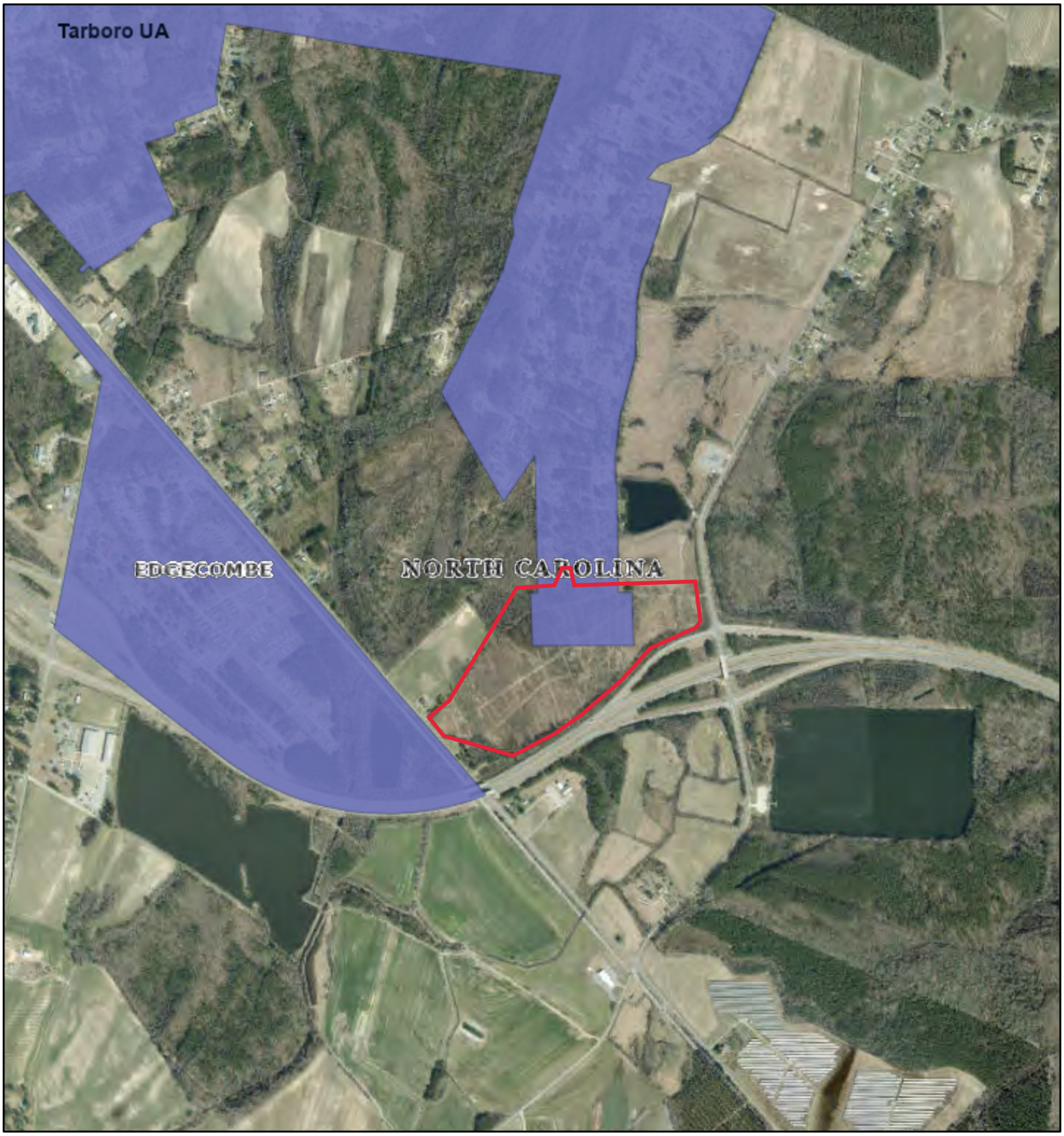
County: EDGECOMBE

Filter by Commodity

	2017
AG LAND, CROPLAND, HARVESTED - NUMBER OF OPERATIONS	139
AREA OPERATED: (1.0 TO 9.9 ACRES)	7
AREA OPERATED: (10.0 TO 49.9 ACRES)	20
AREA OPERATED: (50.0 TO 69.9 ACRES)	7
AREA OPERATED: (70.0 TO 99.9 ACRES)	6
AREA OPERATED: (100 TO 139 ACRES)	15
AREA OPERATED: (140 TO 179 ACRES)	5
AREA OPERATED: (180 TO 219 ACRES)	1
AREA OPERATED: (220 TO 259 ACRES)	1
AREA OPERATED: (260 TO 499 ACRES)	17
AREA OPERATED: (500 TO 999 ACRES)	23
AREA OPERATED: (1,000 TO 1,999 ACRES)	19
AREA OPERATED: (2,000 OR MORE ACRES)	18
AREA HARVESTED: (1.0 TO 9.9 ACRES)	19
AREA HARVESTED: (10.0 TO 19.9 ACRES)	5
AREA HARVESTED: (20.0 TO 29.9 ACRES)	7
AREA HARVESTED: (30.0 TO 49.9 ACRES)	16
AREA HARVESTED: (50.0 TO 99.9 ACRES)	13
AREA HARVESTED: (100 TO 199 ACRES)	15
AREA HARVESTED: (200 TO 499 ACRES)	21
AREA HARVESTED: (500 TO 999 ACRES)	14
AREA HARVESTED: (1,000 OR MORE ACRES)	29
AG LAND, CROPLAND, HARVESTED - ACRES	98,642
AREA OPERATED: (1.0 TO 9.9 ACRES)	(D)
AREA OPERATED: (10.0 TO 49.9 ACRES)	410
AREA OPERATED: (50.0 TO 69.9 ACRES)	166

Draw Erase Save Session Tools More Data

Princeville 53-Acre Site - TIGERweb Urban Areas Map



November 1, 2023

1:19,962

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

NC CGIA, Maxar, Source: U.S. Census Bureau

Created with: TIGERweb
(c)Copyright 2023 - US Census Bureau

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, December 8, 2023 2:19 PM
To: Muzzy, Laura - FPAC-NRCS, NC
Subject: RE: [External] RE: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult
Attachments: NCORR Princeville SiteRdvlmt_Letter AD-1006 complete prtd.pdf

Hi Laurie:

I am sending the *printed*, completed AD-1006 for the NCORR Princeville 53-Acre Site Redevelopment for your records. Thank you!

Sincerely,

Andrea Gievers

From: Muzzy, Laura - FPAC-NRCS, NC <Laura.Muzzy@usda.gov>
Sent: Monday, December 4, 2023 1:20 PM
To: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Cc: Janway, Ryan - FPAC-NRCS, NC <Ryan.Janway@usda.gov>
Subject: [External] RE: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Hello, Andrea!
I apologize for the delay in getting this back to you. I was thinking this would be classified as an urbanized area, but there is not really a way that this project fits that description. So it is classified as 'prime farmland', though the score is pretty low and would probably not present any barriers. Attached is the letter and AD-1006 from NRCS. You fill out Part VI of AD-1006 form for your purposes, and we appreciate if you send along a copy of it to NRCS when it is filled out, for our records.

Also, I don't recall if I've sent the Procedure for Applicants document to you, but there's a copy attached here in case it's helpful. And there's a copy of the FPPA Manual, too, in case anyone on your team needs to figure out how to fill out Part VI of form AD-1006 (guidelines start around page 22).

And finally, I will be leaving my position with the NRCS effective Dec 15. My colleague Ryan Janway also handles FPPA inquiries; and you may ask our supervisor Mike Jones (michael.jones3@usda.gov) if there are additional questions or concerns.

Thank you. Have a great day!

best,

Laurie F. Muzzy *(she/her)*
Resource Soil Scientist | USDA-Natural Resources Conservation Service
mobile: (919) 737-3640
office: (919) 873-2158

USDA NRCS Response 12/4/23

Gievers, Andrea

From: Muzzy, Laura - FPAC-NRCS, NC <Laura.Muzzy@usda.gov>
Sent: Monday, December 4, 2023 1:20 PM
To: Gievers, Andrea
Cc: Janway, Ryan - FPAC-NRCS, NC
Subject: [External] RE: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult
Attachments: Edgecombe - NCORR Princeville SiteRdvlmt_Letter & AD-1006.pdf; FPPA Procedure for Applicants NRCS-NC.pdf; FPPA_Manual official reg Part523.pdf

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Hello, Andrea!
I apologize for the delay in getting this back to you. I was thinking this would be classified as an urbanized area, but there is not really a way that this project fits that description. So it is classified as 'prime farmland', though the score is pretty low and would probably not present any barriers. Attached is the letter and AD-1006 from NRCS. You fill out Part VI of AD-1006 form for your purposes, and we appreciate if you send along a copy of it to NRCS when it is filled out, for our records.

Also, I don't recall if I've sent the Procedure for Applicants document to you, but there's a copy attached here in case it's helpful. And there's a copy of the FPPA Manual, too, in case anyone on your team needs to figure out how to fill out Part VI of form AD-1006 (guidelines start around page 22).

And finally, I will be leaving my position with the NRCS effective Dec 15. My colleague Ryan Janway also handles FPPA inquiries; and you may ask our supervisor Mike Jones (michael.jones3@usda.gov) if there are additional questions or concerns.

Thank you. Have a great day!

best,

Laurie F. Muzzy *(she/her)*
Resource Soil Scientist | USDA-Natural Resources Conservation Service
mobile: (919) 737-3640
office: (919) 873-2158
4407 Bland Road, suite #285
Raleigh, NC 27609

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Monday, December 4, 2023 7:10 AM
To: Muzzy, Laura - FPAC-NRCS, NC <Laura.Muzzy@usda.gov>
Subject: RE: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult

Hi Laurie:

I am checking in on the Princeville 53-acre site project which will allow the Town to create a safe area, outside of floodplain, for critical municipal facilities, housing and commercial facilities. Please feel free to contact me if you have any questions. Thank you so much! I hope all is well!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

From: Gievers, Andrea
Sent: Wednesday, November 1, 2023 1:26 PM
To: Muzzy, Laura - FPAC-NRCS, RALEIGH, NC <Laura.Muzzy@usda.gov>
Subject: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult

Hello Ms. Muzzy:

In accordance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541 and 7 CFR Part 658, we are providing information for your review regarding the **Princeville 53-Acre Site Redevelopment** project. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from HUD is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a 53-acre site located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. To assist with your review, included are the Proposed Project Location Maps and Site Plans (**Attachment 1**), the USDA AD 1006 Farmland Conversion Impact Rating Form (**Attachment 2**), and USDA NRCS Soil Survey for the Subject Property and TIGERweb Urban Areas Map (**Attachment 3**). NCORR respectfully requests your review of the proposed project. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

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USDA
United States Department of Agriculture

Natural Resources
Conservation Service

North Carolina
State Office

4407 Bland Rd.
Suite 117
Raleigh
North Carolina 27609
Voice (919) 873-2100
Fax (844) 325-2156

December 4, 2023

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development, NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Dear Andrea Gievers:

The following information is in response to your request soliciting comments regarding the Princeville 53-Acre Site Redevelopment project in Edgecombe County, NC.

Projects are subject to Farmland Protection Policy Act (FPPA) requirements if they may irreversibly convert farmland (directly or indirectly) to nonagricultural use and are completed by a Federal agency or with assistance from a Federal agency.

> For the purpose of FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to FPPA requirements does not have to be currently used for cropland. It can be forest land, pastureland, cropland, or other land, but not water or urban built-up land. Farmland means prime or unique farmlands as defined in section 1540(c)(1) of the Act or farmland that is determined by the appropriate state or unit of local government agency or agencies with concurrence of the Secretary to be farmland of statewide of local importance.
>
> “Farmland" does not include land already in or committed to urban development or water storage. Farmland ``already in" urban development or water storage includes all such land with a density of 30 structures per 40-acre area. Farmland already in urban development also includes lands identified as ``urbanized area" (UA) on the Census Bureau Map, or as urban area mapped with a ``tint overprint" on the USGS topographical maps, or as ``urban-built-up" on the USDA Important Farmland Maps. See over for more information.

The area in question **does include** land classified as Prime or Important Farmland. In accordance with the Code of Federal Regulations 7CFR 658, Farmland Protection Policy Act, the AD-1006 was initiated. NRCS has completed Parts II, IV, V of the form, and returned for completion by the requesting agency. The requesting federal agency will determine next steps when funding is initiated.

If you have any questions, please feel free to email me at Laura.Muzzy@usda.gov.

Sincerely,

Laurie F. Muzzy

Laurie F. Muzzy
Resource Soil Scientist

cc:
Kristian Turner, acting supervisory soil conservationist, NRCS, Edgecombe County, NC
Michael Jones, state soil scientist, Raleigh, NC

The Natural Resources Conservation Service
is an agency of the Department of Agriculture’s
Farm Production and Conservation (FPAC).

An Equal Opportunity Provider, Employer, and Lender

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 11/1/2023
Name of Project Princeville 53-Acre Site Redevelopment	Federal Agency Involved HUD
Proposed Land Use Municipal, commercial, residential	County and State Edgecombe County, North Carolina
PART II *(To be completed by NRCS)*	Date Request Received By NRCS 11/1/2023 / Person Completing Form: Laurie F. Muzzy

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☑ NO ☐	Acres Irrigated 0	Average Farm Size 598

Major Crop(s) corn	Farmable Land In Govt. Jurisdiction Acres: 89.45% 290,157	Amount of Farmland As Defined in FPPA Acres: 89.45% 290,157
Name of Land Evaluation System Used Edgecombe County LESA	Name of State or Local Site Assessment System NA	Date Land Evaluation Returned by NRCS 12/4/2023

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	53.28			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	53.28			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	35.5			
B. Total Acres Statewide Important or Local Important Farmland	18.8			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.017%			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	58.57%			
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	59.56			

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)				
2. Perimeter In Non-urban Use	(10)				
3. Percent Of Site Being Farmed	(20)				
4. Protection Provided By State and Local Government	(20)				
5. Distance From Urban Built-up Area	(15)				
6. Distance To Urban Support Services	(15)				
7. Size Of Present Farm Unit Compared To Average	(10)				
8. Creation Of Non-farmable Farmland	(10)				
9. Availability Of Farm Support Services	(5)				
10. On-Farm Investments	(20)				
11. Effects Of Conversion On Farm Support Services	(10)				
12. Compatibility With Existing Agricultural Use	(10)				
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	59.56	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	0	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	59.56	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES ☐ NO ☐

Reason For Selection:

Name of Federal agency representative completing this form:	Date:

(See Instructions on reverse side) **Form AD-1006 (03-02)**

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

Step 1 - Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, http://fppa.nrcs.usda.gov/lesa/.

Step 2 - Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s)of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at http://offices.usda.gov/scripts/ndISAPI.dll/oip_public/USA_map, or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)

Step 3 - NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.

Step 4 - For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.

Step 5 - NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.

Step 6 - The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office.

Step 7 - The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA.

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

(For Federal Agency)

Part I: When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

Part III: When completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

Part VI: Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighed a maximum of 25 points and criterion #11 a maximum of 25 points.

2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160.
Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \text{ X } 160 = 144 \text{ points for Site A}$$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.

NCORR USDA NRCS Review Package
sent November 1, 2023

Gievers, Andrea

From: Gievers, Andrea
Sent: Wednesday, November 1, 2023 1:26 PM
To: Muzzy, Laura - FPAC-NRCS, RALEIGH, NC
Subject: NCORR Princeville 53-Acre Site Redevelopment - AD 1006 Farmlands Consult
Attachments: NCORR Princeville 53 Acre Site USDA NRCS Consult 11.1.23.pdf

Hello Ms. Muzzy:

In accordance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541 and 7 CFR Part 658, we are providing information for your review regarding the **Princeville 53-Acre Site Redevelopment** project. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from HUD is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a 53-acre site located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. To assist with your review, included are the Proposed Project Location Maps and Site Plans (**Attachment 1**), the USDA AD 1006 Farmland Conversion Impact Rating Form (**Attachment 2**), and USDA NRCS Soil Survey for the Subject Property and TIGERweb Urban Areas Map (**Attachment 3**). NCORR respectfully requests your review of the proposed project. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 1, 2023

Ms. Laurie F. Muzzy
Resource Soil Scientist
USDA-Natural Resources Conservation Service
407 Bland Road, Suite #285
Raleigh, NC 27609

Sent via email to: laura.muzzy@usda.gov

RE: USDA NRCS Review
NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Ms. Muzzy:

In accordance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541 and 7 CFR Part 658, we are providing information for your review regarding the above-referenced project. The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD), is serving as the responsible entity for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. NCORR is acting on behalf of HUD in providing the enclosed project information and request for consultation.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Much of the Town's commercial and

municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

Proposed Project Location: The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886 (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres (**Attachment 1**). There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West.

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure along with the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020). The residential trailer onsite reportedly burned to the ground in 2019.

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift

station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project site plans are included in **Attachment 1**.

To assist with your review, included are the Proposed Project Location Maps and Site Plans (**Attachment 1**), the USDA AD 1006 Farmland Conversion Impact Rating Form (**Attachment 2**), and USDA NRCS Soil Survey for the Subject Property and TIGERweb Urban Areas Map (**Attachment 3**).

NCORR respectfully requests your review of the proposed project described herein. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov.
Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Proposed Project Enclosures:
Attachment 1: Proposed Project Location Maps and Site Plans
Attachment 2: USDA AD 1006 Farmland Conversion Impact Rating Form
Attachment 3: USDA NRCS Soil Survey for Subject Property, and TIGERweb Urban Areas Map

ATTACHMENT 1:

Proposed Project Location Maps and Site Plans

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

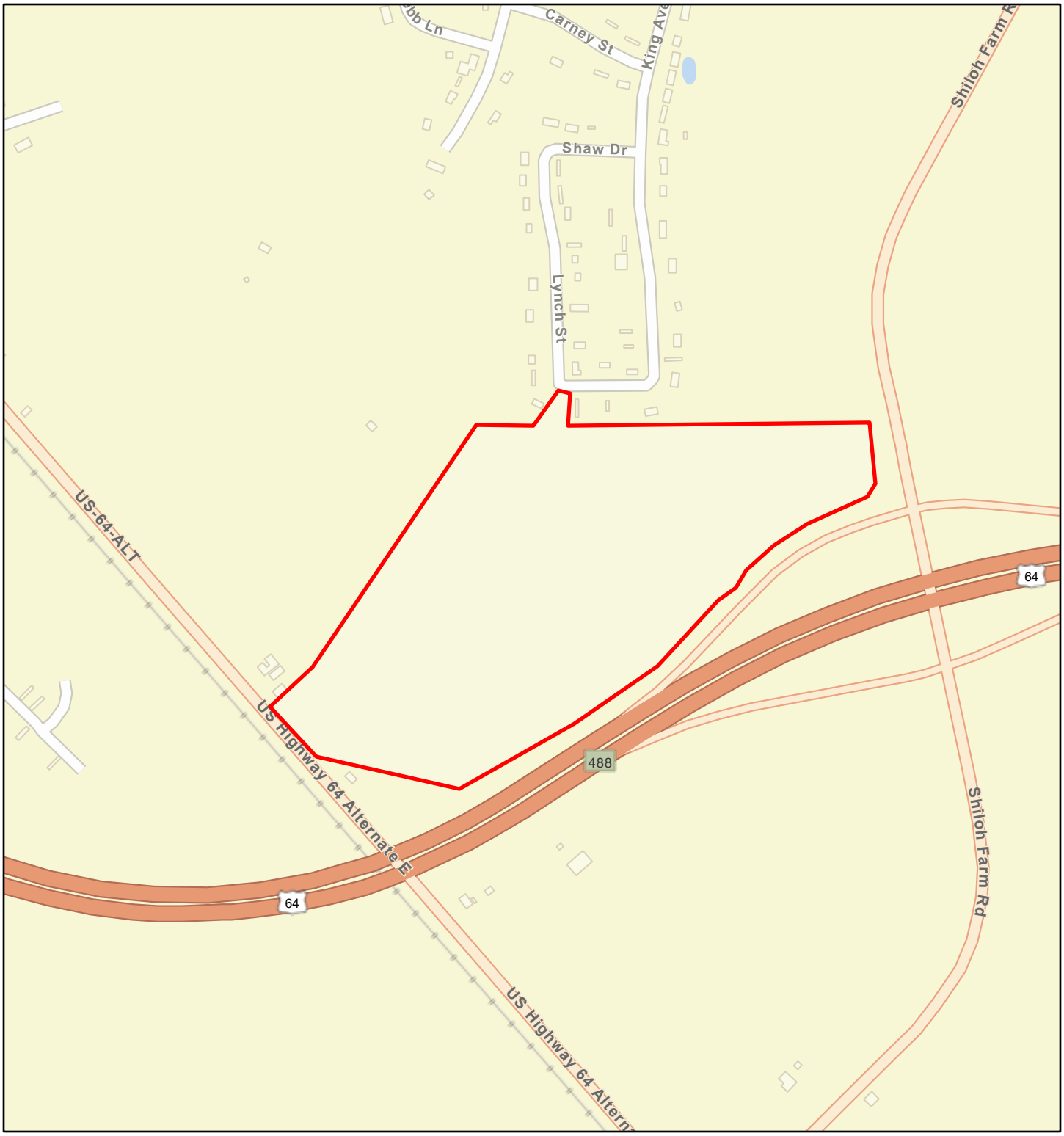
1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Street Map



October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

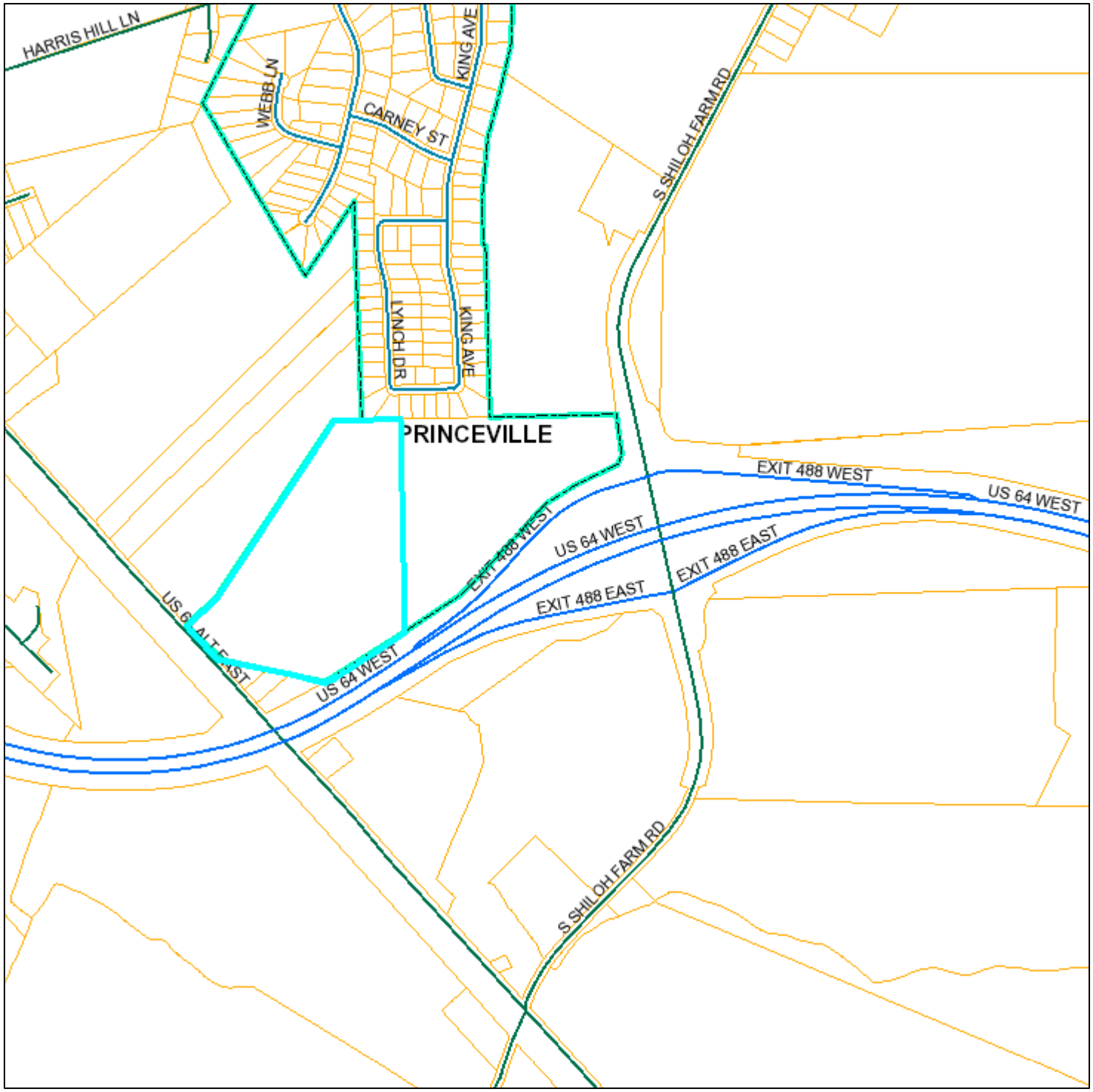
1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Princeville 53-Acre Site Redevelopment

Copyright:© 2013 National Geographic Society, i-cubed



PIN: 474714756400
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 2 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 240000
DEED LOC: 1672/0336
ACCOUNT: 209203
ACREAGE: 29.96
LAND VALUE: 57870
BLDG VAL: 0
NET VALUE: 57870
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

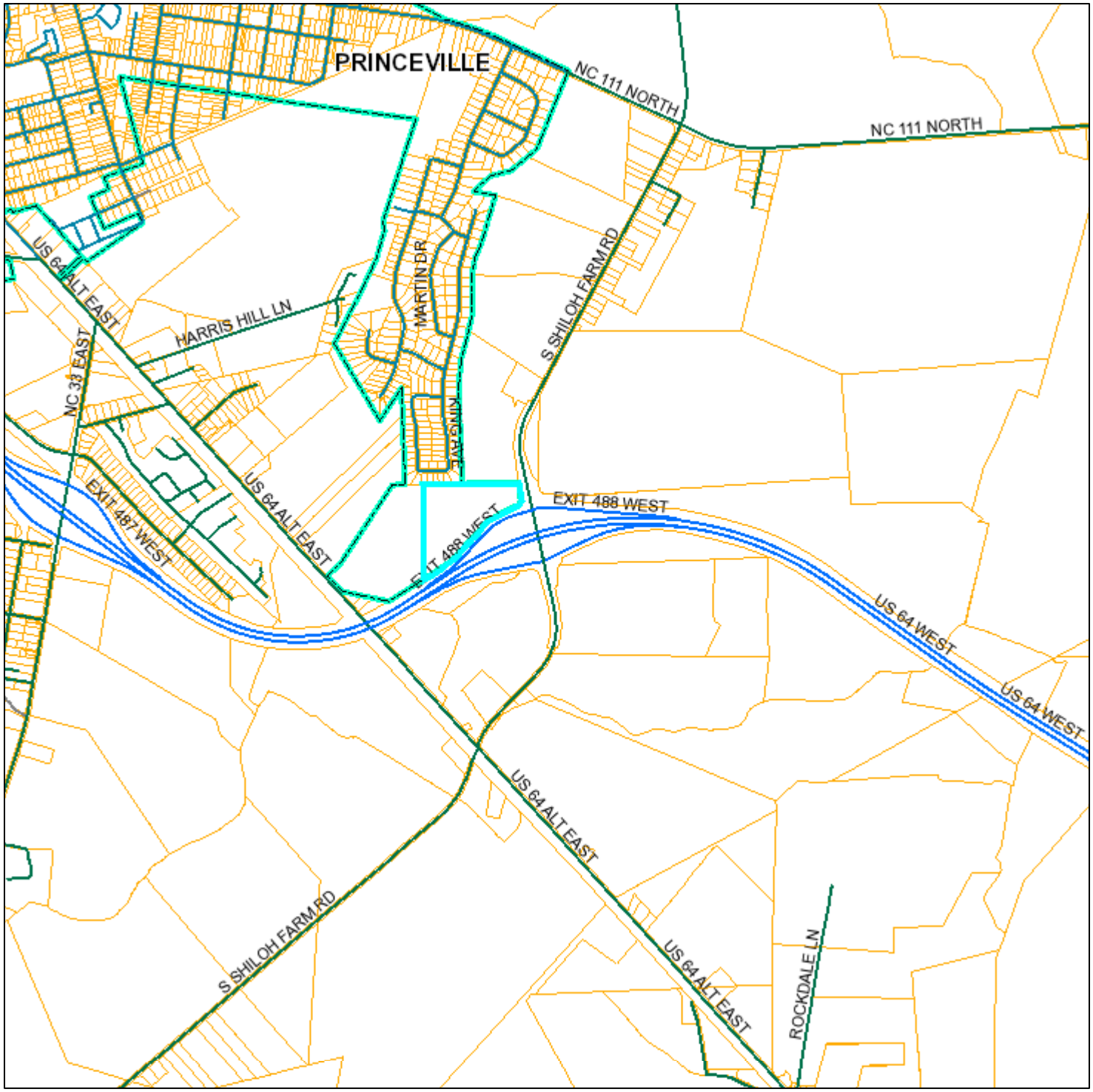
Edgecombe County

December 30, 2021

1 inch = 854 feet

0 0.075 0.15 0.3 mi

0 0.125 0.25 0.5 km



PIN: 474724794700
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 1 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 190000
DEED LOC: 1672/0330
ACCOUNT: 209203
ACREAGE: 23
LAND VALUE: 52460
BLDG VAL: 0
NET VALUE: 52460
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

Edgecombe County

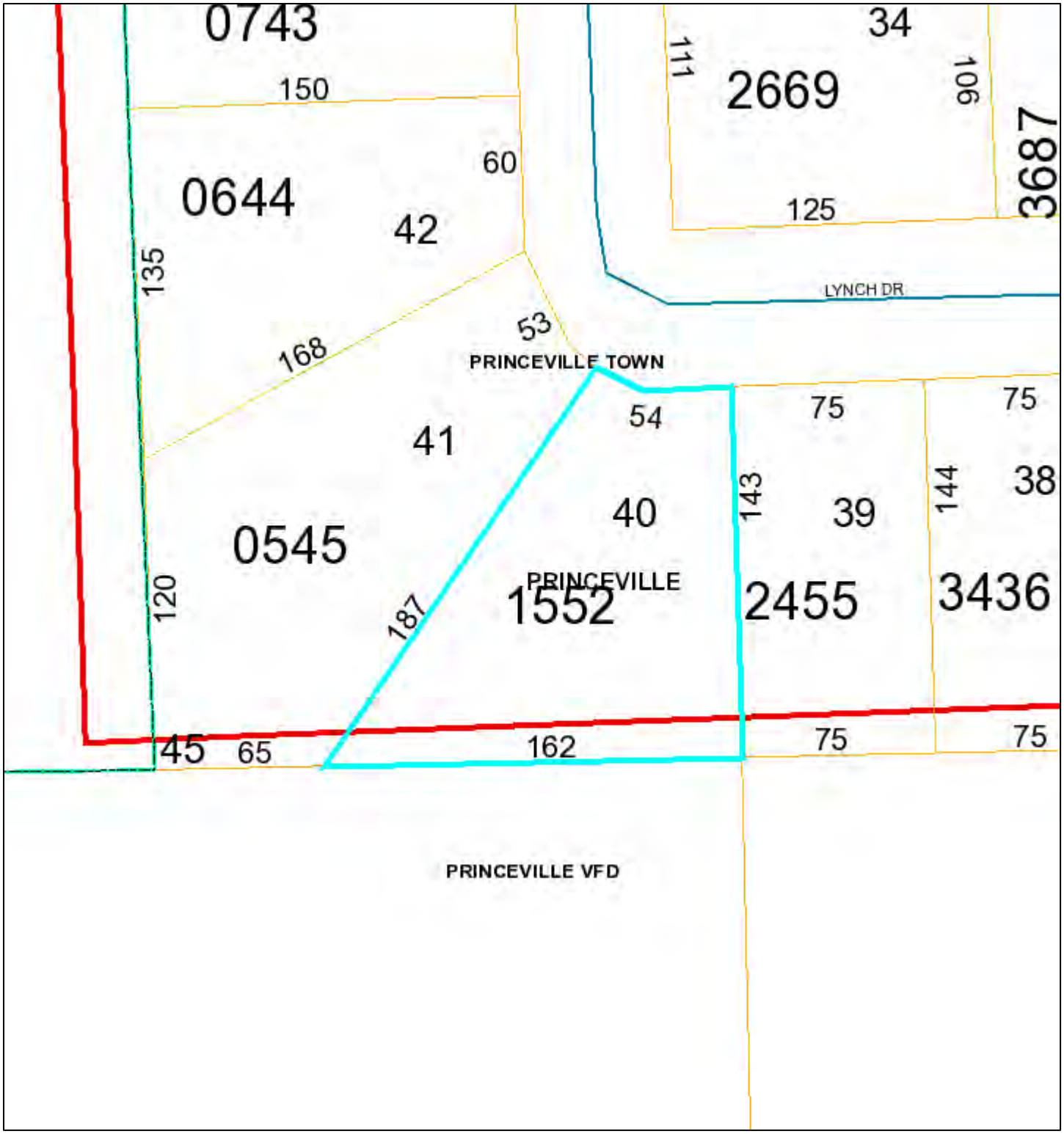
December 30, 2021

1 inch = 1,918 feet

0 0.175 0.35 0.7 mi

0 0.3 0.6 1.2 km

1029 Lynch Drive - Edgecombe County



PIN:	474725155200	**ACREAGE:**	0
OWNER:	HIGGINS CAROLYN D JENKINS	**LAND VALUE:**	9000
ADDRESS:	1000 VANCE DR	**BLDG VAL:**	0
CITY:	TARBORO	**NET VALUE:**	9000
STATE:	NC	**DEFERRED:**	0
ZIP:	27886	**SUBDIVISION:**	SOUTHERN TERRACE SECT 6 (B)
LOCATION:	1029 LYNCH DR	**TAX CODES:**	C10
PROPERTY DESCRIPTION: LT 40 SOUTHERN TERRACE SECT 6		**DEED LOC:**	1491/0727
ZONING:		**DEED DATE:**	5/22/2007
		SALE PRICE:	0

1 inch = 54 feet

0 0.005 0.01 0.02 mi

0 0.0075 0.015 0.03 km

October 5, 2023

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

0 50' 100' 200'

SCALE: 1"=100'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-0.02

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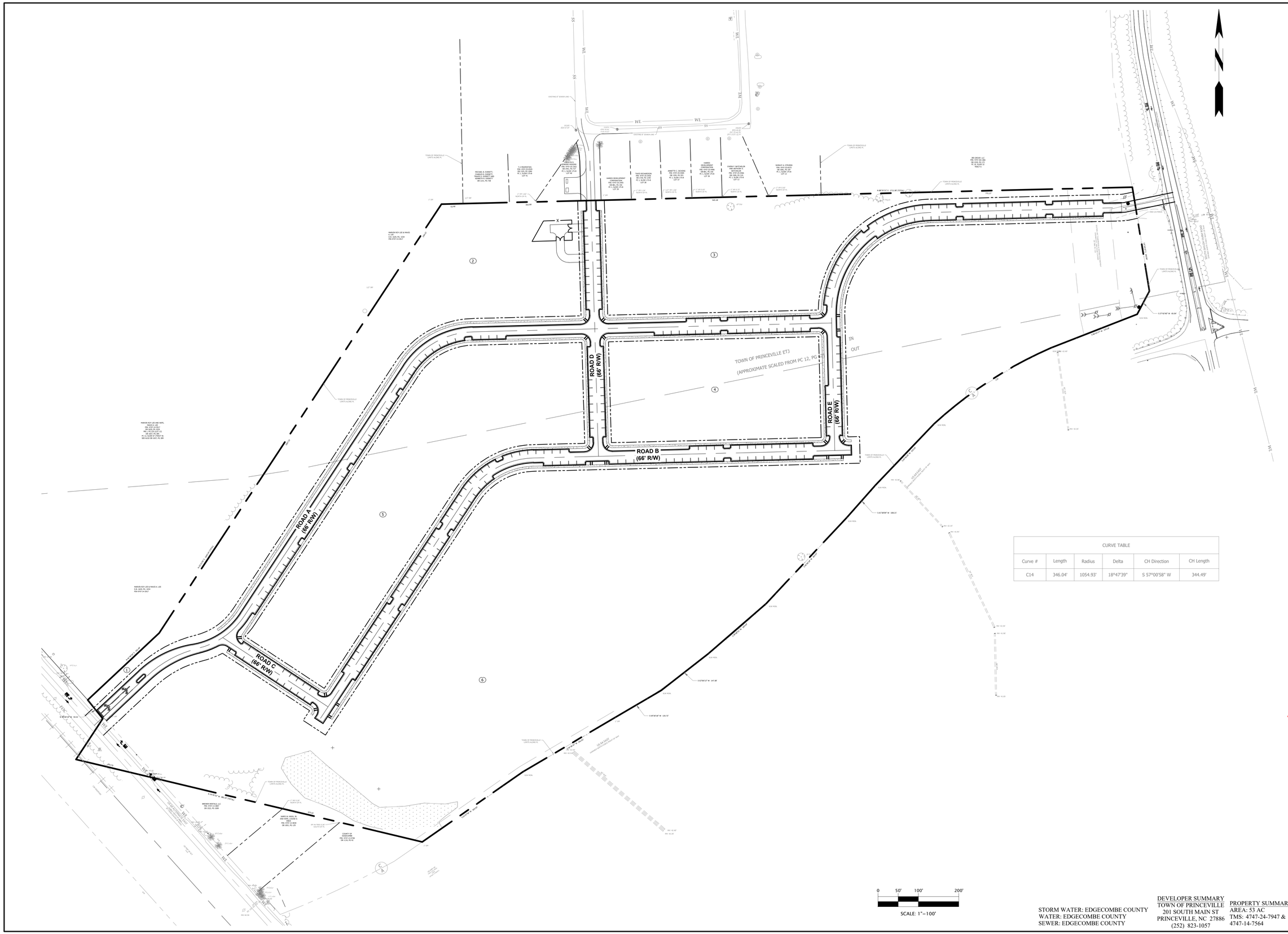

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.00

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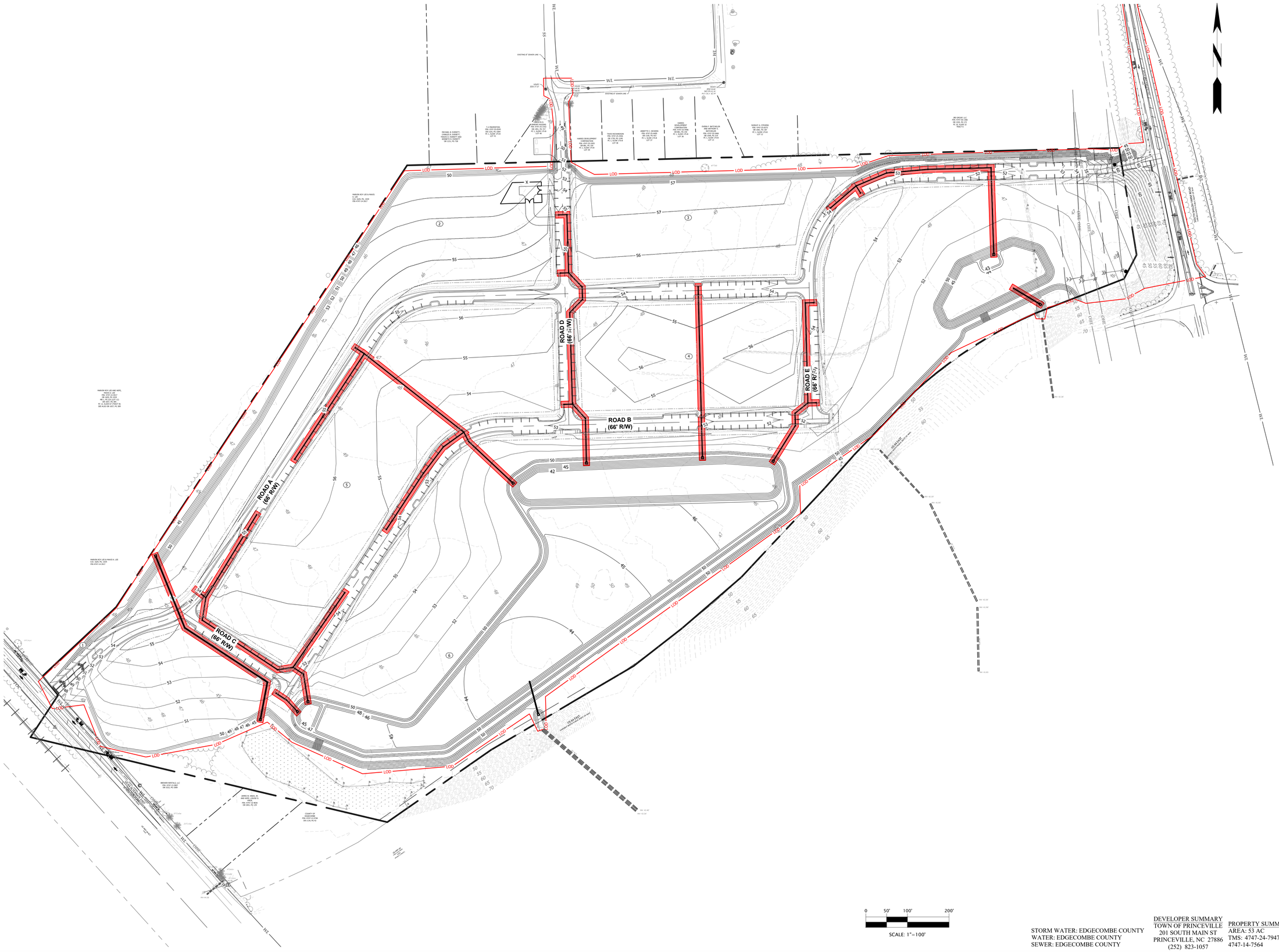

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-3.00

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ATTACHMENT 2:

USDA AD 1006 Farmland Conversion Impact Rating Form

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 11/1/23
Name of Project Princeville 53-Acre Site Redevelopment	Federal Agency Involved HUD
Proposed Land Use Municipal, commercial, residential	County and State Edgecombe County, North Carolina
PART II *(To be completed by NRCS)*	Date Request Received By NRCS / Person Completing Form:

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☐ NO ☐	Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount of Farmland As Defined in FPPA Acres: %	
Name of Land Evaluation System Used	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	53.28			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	53.28			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide Important or Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)				

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)				
2. Perimeter In Non-urban Use	(10)				
3. Percent Of Site Being Farmed	(20)				
4. Protection Provided By State and Local Government	(20)				
5. Distance From Urban Built-up Area	(15)				
6. Distance To Urban Support Services	(15)				
7. Size Of Present Farm Unit Compared To Average	(10)				
8. Creation Of Non-farmable Farmland	(10)				
9. Availability Of Farm Support Services	(5)				
10. On-Farm Investments	(20)				
11. Effects Of Conversion On Farm Support Services	(10)				
12. Compatibility With Existing Agricultural Use	(10)				
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	0	0	0	0
TOTAL POINTS *(Total of above 2 lines)*	260	0	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES ☐ NO ☐

Reason For Selection:

Name of Federal agency representative completing this form:	Date:

(See Instructions on reverse side) **Form AD-1006 (03-02)**

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

Step 1 - Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, http://fppa.nrcs.usda.gov/lesa/.

Step 2 - Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s)of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at http://offices.usda.gov/scripts/ndISAPI.dll/oip_public/USA_map**,** or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)

Step 3 - NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.

Step 4 - For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.

Step 5 - NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.

Step 6 - The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office.

Step 7 - The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA.

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

(For Federal Agency)

Part I: When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

Part III: When completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

Part VI: Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighed a maximum of 25 points and criterion #11 a maximum of 25 points.

2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160.
Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \text{ X } 160 = 144 \text{ points for Site A}$$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.

ATTACHMENT 3:

USDA NRCS Soil Survey for the Subject Property and TIGERweb Urban Areas Map

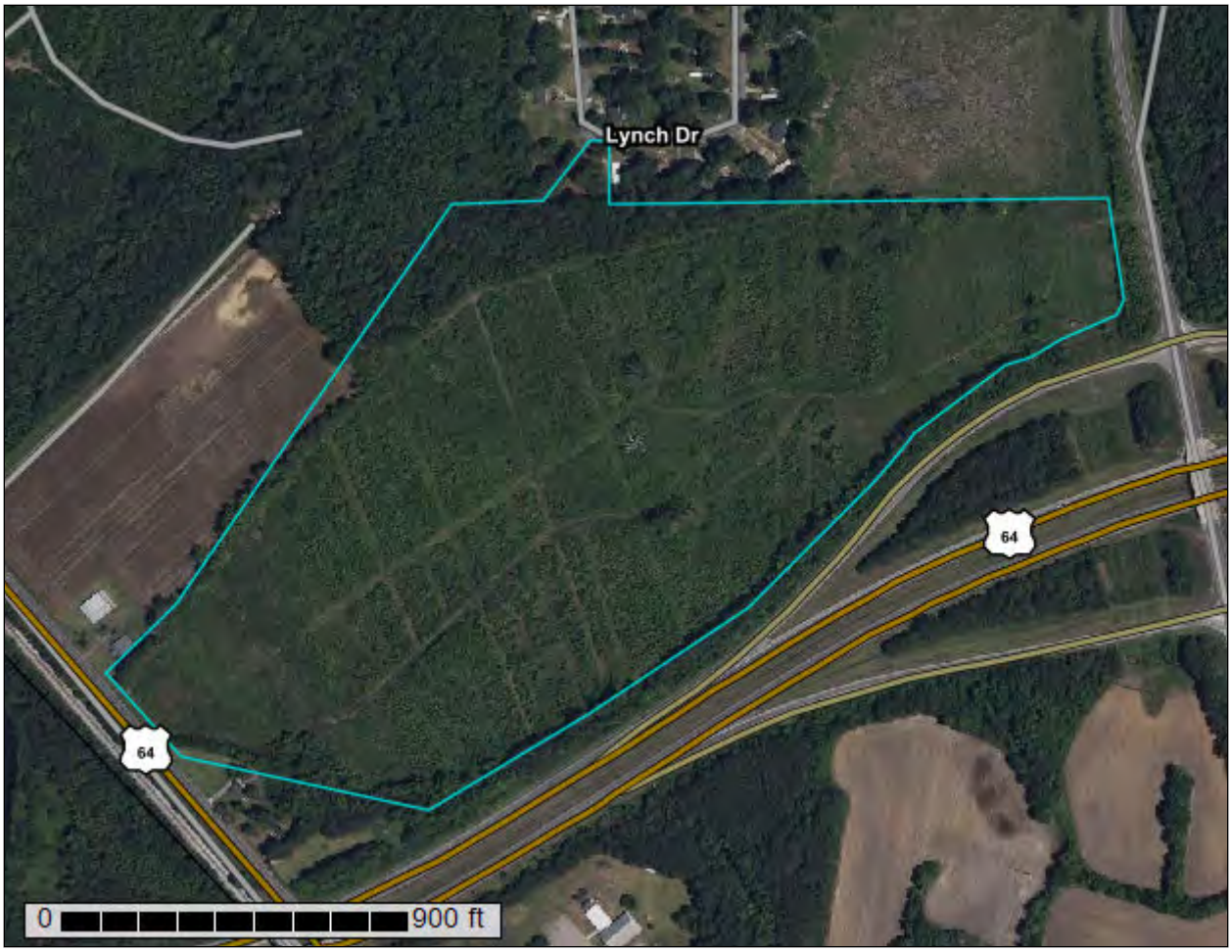
United States Department of Agriculture

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Edgecombe County, North Carolina

Princeville 53-Acre Site Redevelopment



November 1, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:4,480 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Edgecombe County, North Carolina
Survey Area Data: Version 21, Sep 13, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 9, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AaA	Altavista fine sandy loam, 0 to 3 percent slopes	21.6	39.8%
CeB	Conetoe loamy sand, 0 to 4 percent slopes	0.1	0.1%
Ro	Roanoke loam	18.7	34.4%
StB	State loamy sand, 0 to 4 percent slopes	5.4	10.0%
WkB	Wickham sandy loam, 0 to 4 percent slopes	8.5	15.7%
Totals for Area of Interest		**54.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Edgecombe County, North Carolina

AaA—Altavista fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 132pf
Elevation: 80 to 1,400 feet
Mean annual precipitation: 37 to 60 inches
Mean annual air temperature: 59 to 70 degrees F
Frost-free period: 200 to 265 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Altavista and similar soils: 91 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Altavista

Setting

Landform: Stream terraces
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Old loamy alluvium derived from igneous and metamorphic rock

Typical profile

Ap - 0 to 8 inches: fine sandy loam
E - 8 to 15 inches: fine sandy loam
Bt - 15 to 42 inches: sandy clay loam
C - 42 to 80 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C
Ecological site: F136XY660NC - High terraces, very rare Inundation
Hydric soil rating: No

Minor Components

Roanoke, undrained

Percent of map unit: 5 percent
Landform: Backswamps on stream terraces, depressions on stream terraces
Landform position (three-dimensional): Flat

Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

Tomotley, undrained
Percent of map unit: 2 percent
Landform: Flats on stream terraces, depressions on stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

Wehadkee, undrained
Percent of map unit: 1 percent
Landform: Depressions on flood plains
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

Bibb, undrained
Percent of map unit: 1 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

CeB—Conetoe loamy sand, 0 to 4 percent slopes

Map Unit Setting
National map unit symbol: 132rl
Elevation: 20 to 160 feet
Mean annual precipitation: 40 to 55 inches
Mean annual air temperature: 59 to 70 degrees F
Frost-free period: 200 to 280 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Conetoe and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Conetoe

Setting
Landform: Ridges on stream terraces
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy and loamy alluvium and/or fluviomarine deposits

Typical profile

Ap - 0 to 8 inches: loamy sand
E - 8 to 25 inches: loamy sand
Bt - 25 to 41 inches: sandy loam
BC - 41 to 48 inches: loamy sand
C - 48 to 90 inches: sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 6.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Ecological site: F153AY030NC - Dry Loamy Rises and Flats
Hydric soil rating: No

Ro—Roanoke loam

Map Unit Setting

National map unit symbol: 132x5
Elevation: 80 to 330 feet
Mean annual precipitation: 38 to 55 inches
Mean annual air temperature: 59 to 70 degrees F
Frost-free period: 210 to 265 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Roanoke, undrained, and similar soils: 85 percent
Roanoke, drained, and similar soils: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Roanoke, Undrained

Setting

Landform: Backswamps on stream terraces, depressions on stream terraces
Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Old clayey alluvium derived from igneous and metamorphic rock

Typical profile

A - 0 to 7 inches: loam

BAg - 7 to 10 inches: loam
Btg - 10 to 43 inches: clay
BCg - 43 to 52 inches: clay
Cg - 52 to 80 inches: gravelly sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: Rare
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: C/D
Ecological site: F153AY065NC - Wet Clay Flats and Depressions
Hydric soil rating: Yes

Description of Roanoke, Drained

Setting

Landform: Backswamps on stream terraces, depressions on stream terraces
Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Old clayey alluvium derived from igneous and metamorphic rock

Typical profile

A - 0 to 7 inches: loam
BAg - 7 to 10 inches: loam
Btg - 10 to 43 inches: clay
BCg - 43 to 52 inches: clay
Cg - 52 to 80 inches: gravelly sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: NoneOccasional
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Ecological site: F153AY065NC - Wet Clay Flats and Depressions

Hydric soil rating: Yes

StB—State loamy sand, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 132x6
Elevation: 80 to 330 feet
Mean annual precipitation: 38 to 55 inches
Mean annual air temperature: 59 to 70 degrees F
Frost-free period: 210 to 265 days
Farmland classification: All areas are prime farmland

Map Unit Composition

State and similar soils: 75 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of State

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Old loamy alluvium derived from igneous and metamorphic rock

Typical profile

Ap - 0 to 6 inches: loamy sand
E - 6 to 10 inches: loamy fine sand
Bt1 - 10 to 38 inches: sandy clay loam
Bt2 - 38 to 42 inches: fine sandy loam
C - 42 to 90 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: B
Ecological site: F153AY030NC - Dry Loamy Rises and Flats
Hydric soil rating: No

WkB—Wickham sandy loam, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 132xj
Elevation: 80 to 330 feet
Mean annual precipitation: 38 to 55 inches
Mean annual air temperature: 59 to 70 degrees F
Frost-free period: 210 to 265 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Wickham and similar soils: 90 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wickham

Setting

Landform: Stream terraces
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Old loamy alluvium derived from igneous and metamorphic rock

Typical profile

Ap - 0 to 6 inches: fine sandy loam
Bt - 6 to 50 inches: sandy clay loam
C - 50 to 80 inches: loamy sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Ecological site: F153AY030NC - Dry Loamy Rises and Flats
Hydric soil rating: No

Minor Components

Roanoke, undrained

Percent of map unit: 5 percent
Landform: Backswamps on stream terraces, depressions on stream terraces

Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: F153AY065NC - Wet Clay Flats and Depressions
Hydric soil rating: Yes

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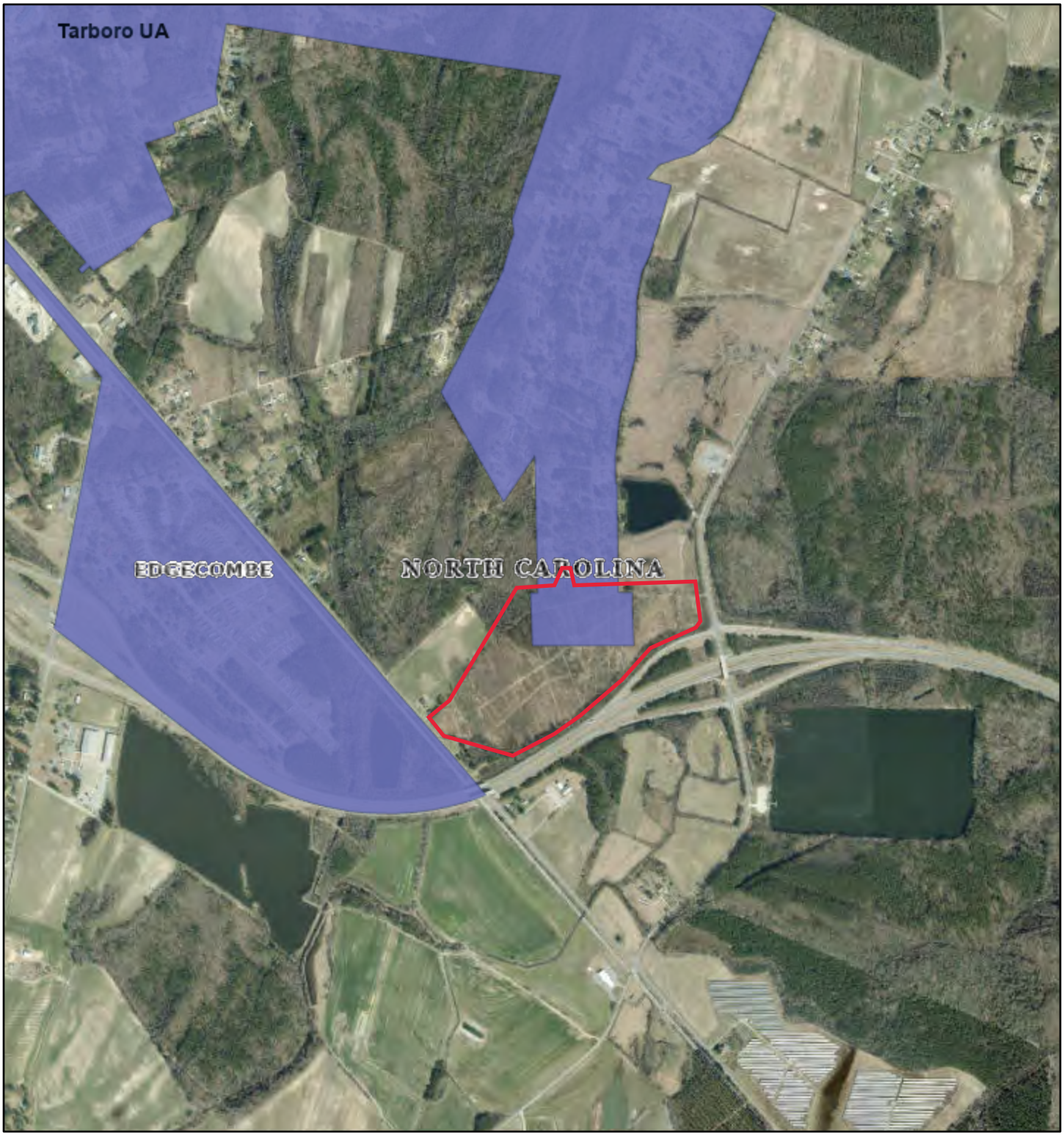
Princeville 53-Acre Site - TIGERweb Urban Areas Map



November 1, 2023

1:19,962

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

NC CGIA, Maxar, Source: U.S. Census Bureau

Created with: TIGERweb
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ATTACHMENT 11:

Floodplain Management

National Flood Hazard Layer FIRMette

FEMA

77°30'44"W 35°52'27"N

77°30'6"W 35°51'58"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2023 at 8:22 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ATTACHMENT 12:

Historic Preservation

SHPO Response, NCORR SHPO Submission Package, HUD TDAT Results, Catawba Indian Nation THPO Response, Catawba Indian Nation Chief and THPO Section 106 Review Packages, and Tuscarora Nation Chief and THPO Section 106 Review Packages

North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary D. Reid Wilson

Office of Archives and History
Deputy Secretary, Darin J. Waters, Ph.D.

December 4, 2023

MEMORANDUM

TO: Kadisha Molyneaux
North Carolina State Clearinghouse
Department of Administration
state.clearinghouse@doa.nc.gov

FROM: Ramona M. Bartos, Deputy
State Historic Preservation Officer
RSL for Ramona M. Bartos

SUBJECT: Construct Mixed Use Development, South Shiloh Farm Road, US 64 Alternate, Princeville, Edgecombe County, SCH # 24-E-0000-0143, ER 19-2343

Thank you for your email of November 20, 2023, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@dncr.nc.gov. In all future communication concerning this project, please cite the above referenced tracking number.

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 3, 2023

Ms. Renee Gledhill-Earley
Environmental Review Coordinator
NC State Historic Preservation Office
4617 Mail Service Center
Raleigh, NC 27699-4617

Sent via email to the State Environmental Clearinghouse:
State.Clearinghouse@doa.nc.gov
crystal.best@doa.nc.gov

RE: State Historic Preservation Office Request for Concurrence
Section 106 Review - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Ms. Gledhill-Earley:

In accordance with Section 106 of the National Historic Preservation Act (NHPA) and its implementing regulations, 36 CFR Part 800, we are providing information for your review and concurrence regarding the above-referenced project. The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD), is serving as the responsible entity for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. NCORR is acting on behalf of HUD in providing the enclosed project information and request for consultation. Terracon sent a consultation request previously to your office regarding *only the 53-acre site* and your office responded, see **Attachment 3**.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as 0.25-mile from the boundary of the Subject Property located at 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres. There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West (see *Site Plans* in **Attachment 1**).

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits

including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project site plans are included in **Attachment 1**.

We have made a Finding of *"No Historic Properties Affected"* pursuant to 36 CFR 800.4(d)(1) based on the following:

> Based on our research of the Subject Property in the National Register of Historic Places, North Carolina State Historic Preservation Office's (NC SHPO) HPOWEB, and site review, no publicly recorded historic properties which are locally designated or listed in or eligible for inclusion in the State or National Register of Historic Places are located on or adjacent to the Subject Property. According to HPOWEB, there is one SLDOE site, Danielhurst federal house (ED0864), located within a 0.5-mile radius of the Subject Property. The results are included in **Attachment 2**. Based on Terracon's search at the NC Office of State Archeology, there are no mapped archaeological sites on the Subject Property but 27 sites mapped within a 0.5-mile radius (see *Cultural Resources Desktop Review* in **Attachment 3**). A cemetery is located on a southwestern adjacent parcel, and NCDOT relocated graves to that parcel from the Worsley/Knight Cemetery circa 1994 to enable highway construction. No project activities are proposed at the cemetery parcel.

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure along with the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020). The residential trailer onsite reportedly burned to the ground in 2019.

Attached for your review are copies of relevant documents supporting our finding, along with maps showing the location of the Subject Property. This documentation satisfies requirements set forth at §800.11(d).

NCORR processes environmental reviews for proposed projects funded with HUD CDBG-MIT on a case-by-case basis. A consultation request for the proposed project described herein is being sent to the Catawba Indian Nation and the Tuscarora Nation. In accordance with Section 101(d)(6)(B) of the NHPA of 1966, as amended (16 U.S.C. 470f), and its implementing regulations, 36 CFR Part 800, this letter serves as notification of the proposed action.

NCORR respectfully requests your review of the proposed project described herein. In accordance with §800.4(d)(1)(i), your office has *thirty days* to object to this finding. Please respond within this timeframe, otherwise we will assume that you concur with our finding.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Proposed Project Enclosures:
Attachment 1: Proposed Project Location Maps and Site Plans
Attachment 2: NRHP and NC HPOWEB Maps
Attachment 3: Previous SHPO Response and Consultation by Terracon for 53-acre Site Only

Section 106 ATTACHMENT 1:

Proposed Project Location Maps and Site Plans

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Princeville 53-Acre Site Redevelopment

Copyright:© 2013 National Geographic Society, i-cubed

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

0 50' 100' 200'

SCALE: 1"=100'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

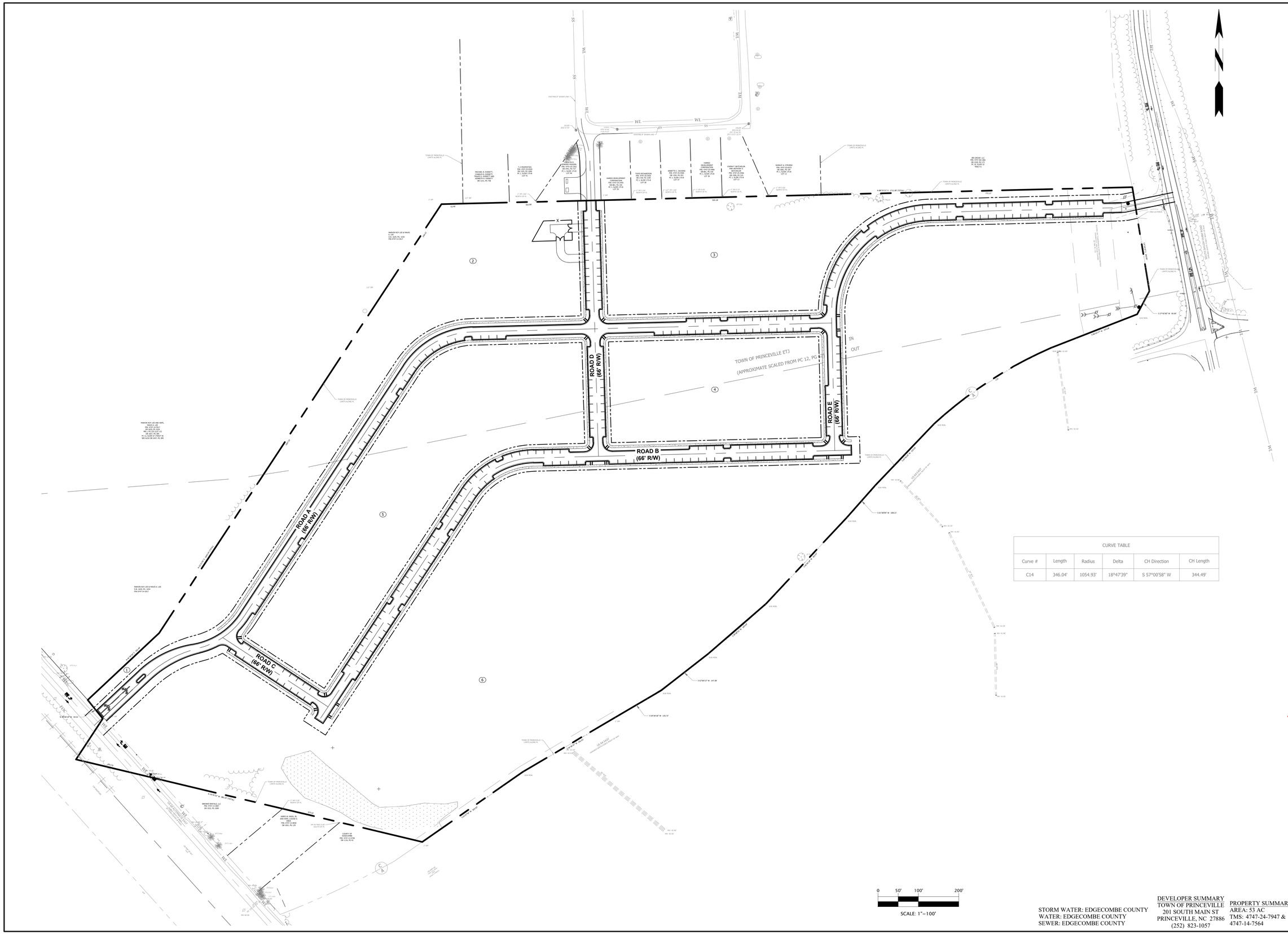
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-0.02

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GNRL.dwg JNIXON 7/13/2023 4:02 PM



CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.00

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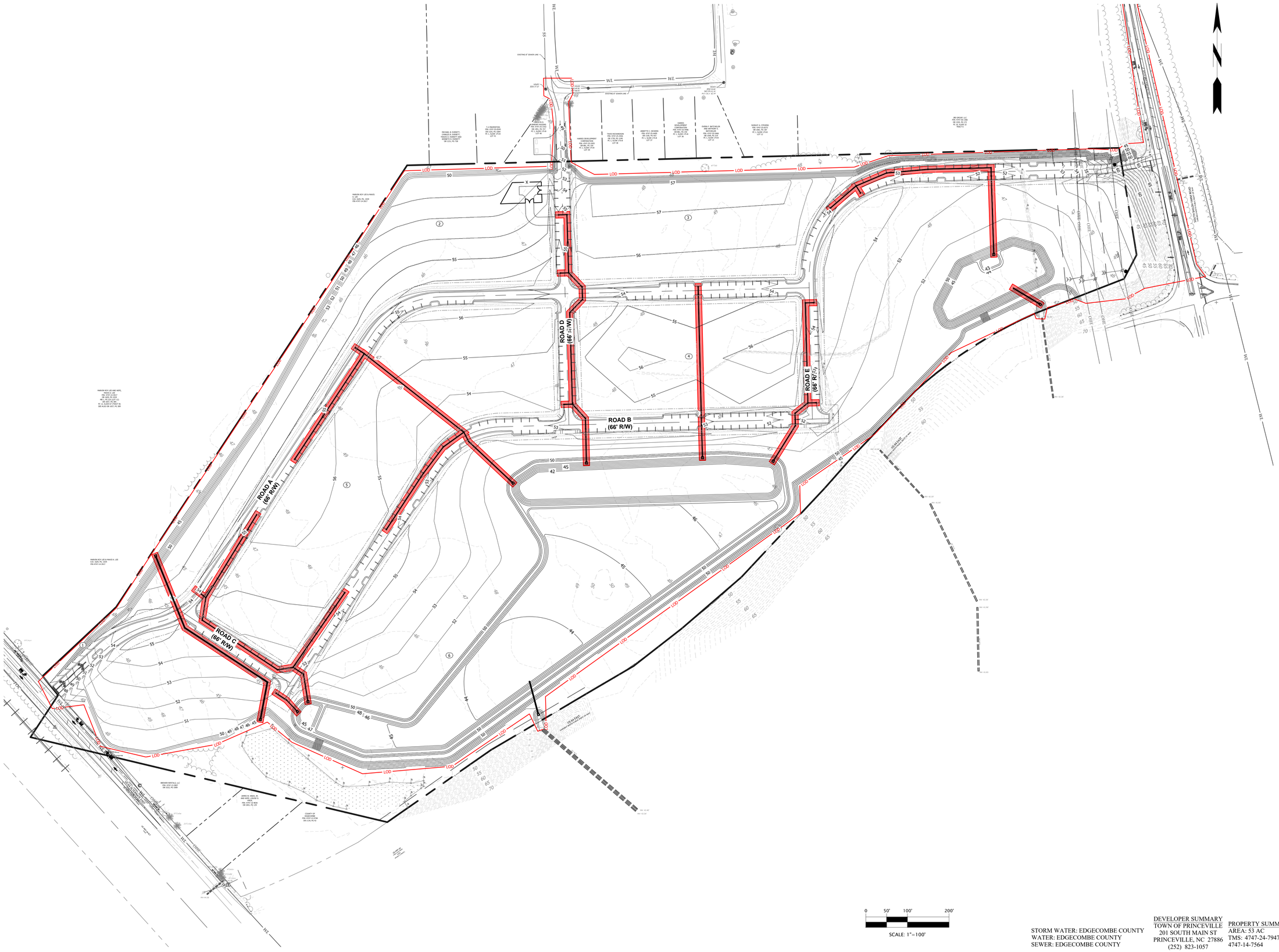


STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

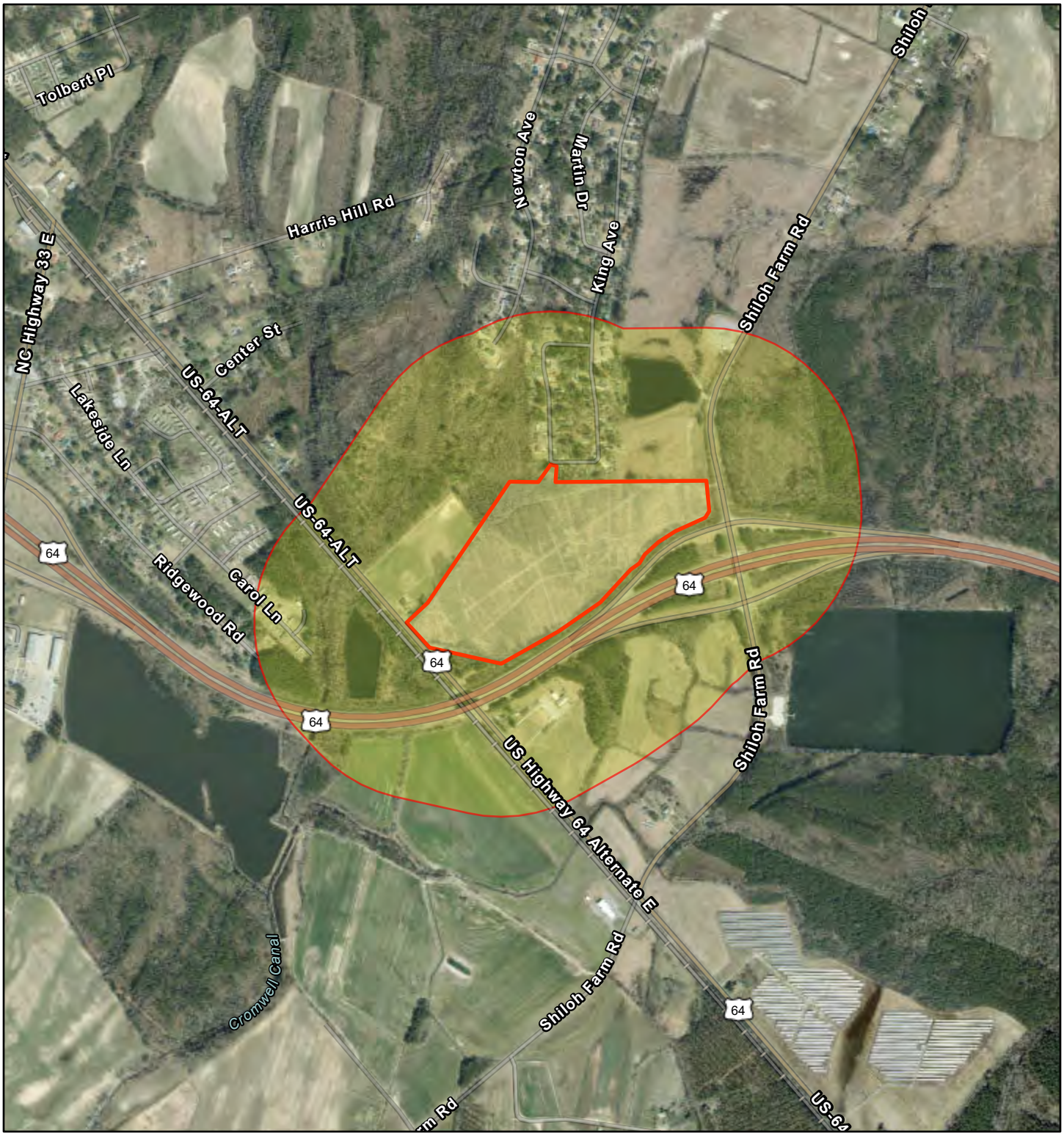
C-3.00

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GRADING.dwg JNIXON 7/13/2023 4:08 PM

Section 106 ATTACHMENT 2:

NRHP and NC HPOWEB Maps

Princeville 53-Acre Site Redevelopment - NRHP with 0.25-mile Buffer



October 9, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

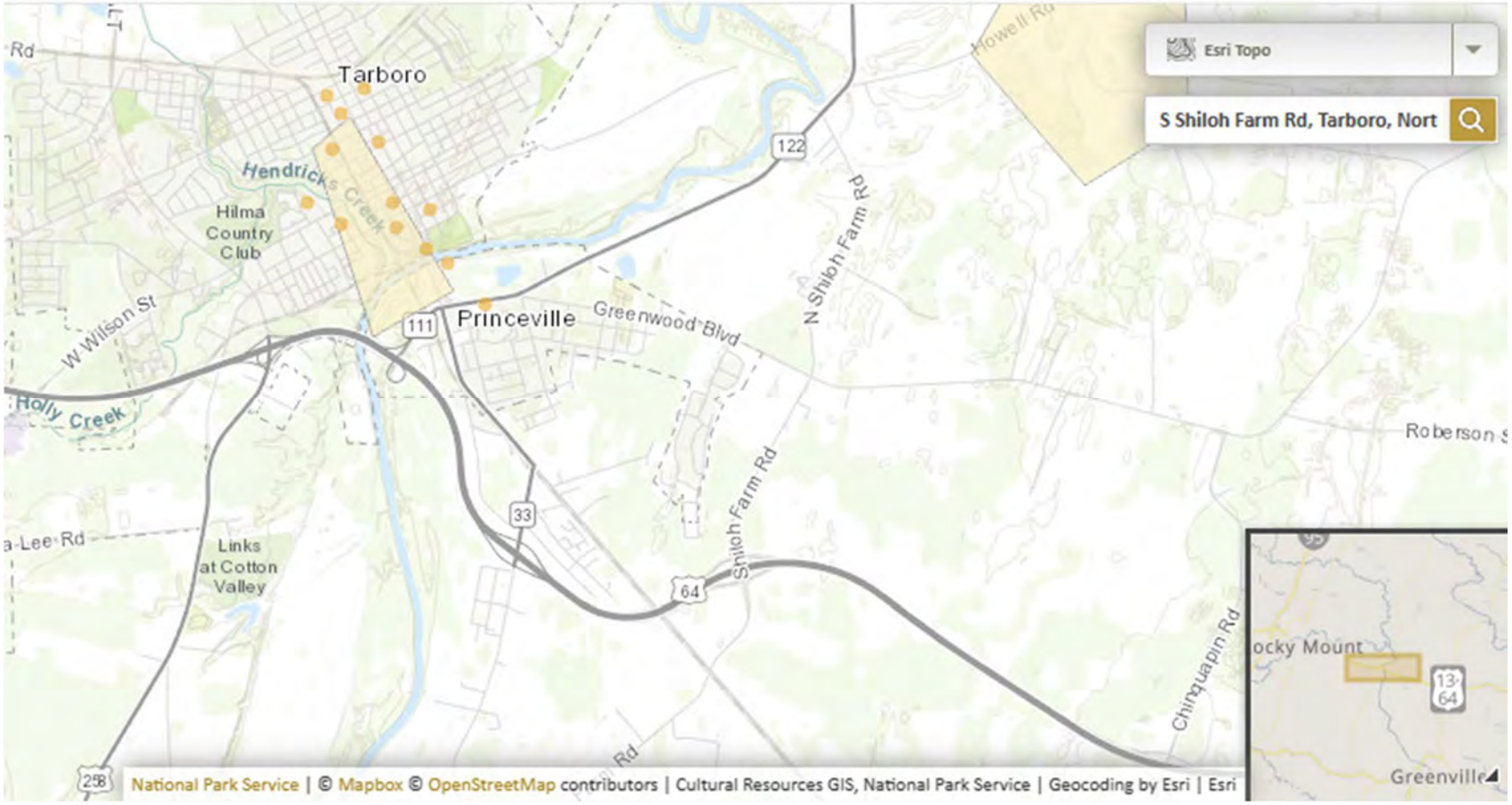
Project Buffer

Princeville 53-Acre Site Redevelopment

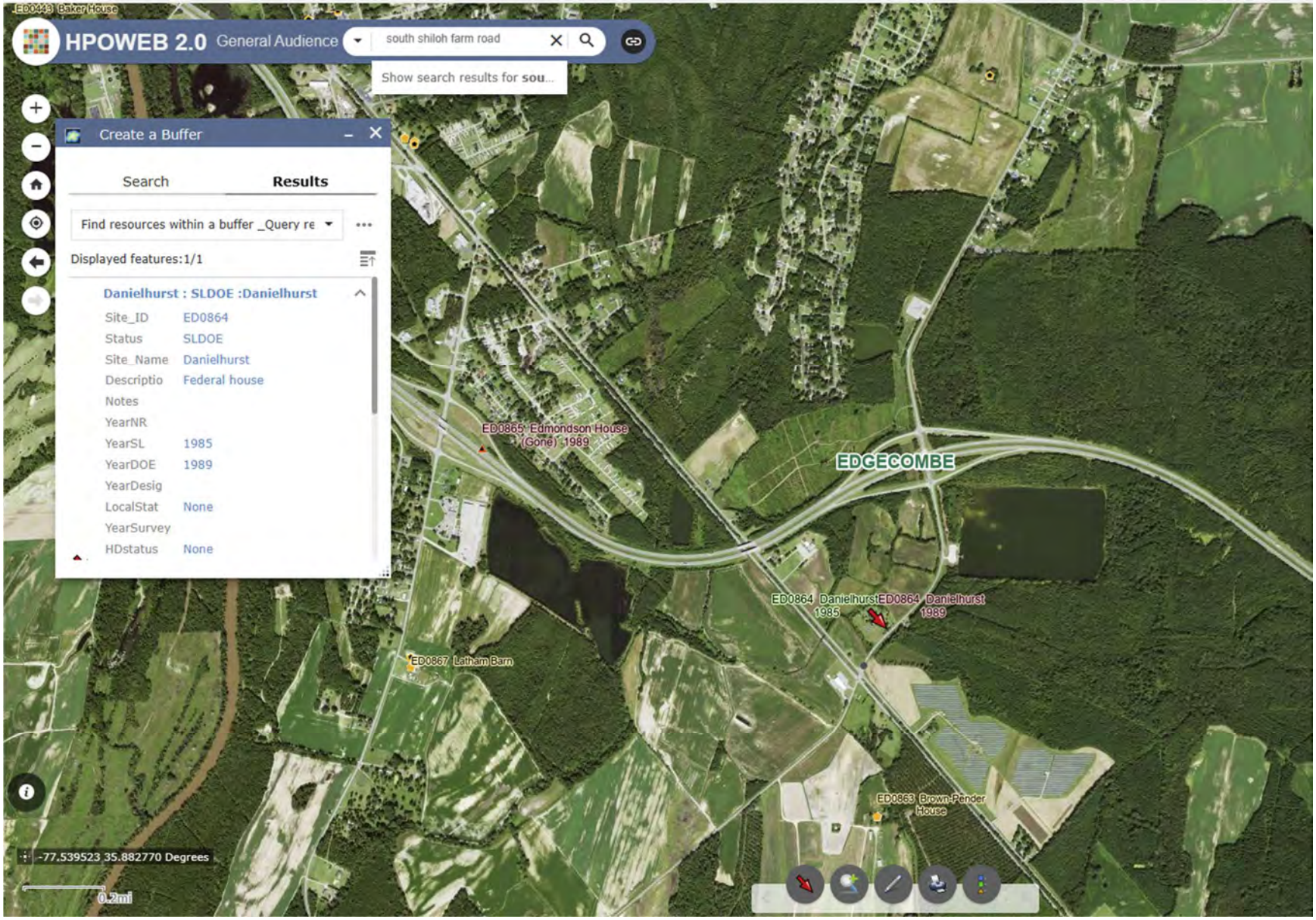
National Register of Historic Places

Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NC CGIA, Maxar, EPA OEI, OFA

Princeville 53-acre Site Redevelopment – NRHP Map



Princeville 53-acre Site Redevelopment – NC HPOWEB with 0.5-mile Buffer



Section 106 ATTACHMENT 3:

Previous SHPO Response and Consultation by Terracon for 53-acre Site Only (Cultural Resources Records Review)

North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary D. Reid Wilson

Office of Archives and History
Deputy Secretary, Darin J. Waters, Ph.D.

July 10, 2023

MEMORANDUM

TO: Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@rebuild.nc.gov

FROM: Ramona M. Bartos, Deputy
State Historic Preservation Officer
RSL for Ramona M. Bartos

SUBJECT: Construct Mixed Use Development, South Shiloh Farm Road, US 64 Alternate, Princeville, Edgecombe County, ER 19-2343

Thank you for your letter of June 19, 2023, regarding the above-referenced undertaking. We have reviewed the submittal and offer the following comments.

We have determined that the project as proposed will not have an effect on any historic structures.

Based on our knowledge of the area, it is unlikely that any archaeological resources that may be eligible for inclusion in the National Register of Historic Places will be affected by the project. We, therefore, recommend that no archaeological investigation be conducted in connection with this project.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number.

2401 Brentwood Rd. Ste. 107
Raleigh, North Carolina 27604
P [919] 873 2211
F [919] 873 9555
terracon.com

June 19, 2023

The Wooten Company
Derrick Smith
301 W Fourteenth Street
Greenville, NC 27834

Re: Town of Princeville Properties
Cultural Resources Records Review
Edgecombe County, NC
Terracon Project No. ET237138

Mr. Smith,

Terracon Consultants, Inc. (Terracon) has conducted a desktop cultural resources records review for the approximately 53-acre project area located along US Highway 64 in Princeville, Edgecombe County, North Carolina (**Figure 1**).

Historical Resources

Research conducted using the North Carolina State Historic Preservation Office (SHPO) HPOWEB GIS service database on June 14, 2023, revealed that while no historical resources appear to be located within the project area, one resource is mapped within a 0.5-mile radius. The Danielhurst House (ED0864) is mapped approximately 0.35 mile southeast of the project area. This resource was placed on the North Carolina Study List in 1985. The Study List is a preliminary step towards determining the *National Register of Historic Places* (NRHP) eligibility for a resource and indicates that a resource may be potentially eligible for the NRHP. In 1989, it was determined that the resource was eligible for the NRHP.

Archaeological Sites

Research conducted by Terracon at the North Carolina Office of State Archaeology (OSA) on June 13, 2023, revealed that while no archaeological sites are mapped directly within the project area, 27 are mapped within a 0.5-mile radius (**Table 1**).

Table 1: Archaeological Sites Within 0.5 Mile of the Project Area

Site Number	Component	NRHP Status
31ED76	Precontact	Not Eligible
31ED178	Precontact	Not Eligible
31ED179	Historic	Unassessed
31ED181	Precontact	Not Eligible
31ED182	Precontact	Not Eligible
31ED183	Historic	Unassessed
31ED184	Historic	Not Eligible

Site Number	Component	NRHP Status
31ED185	Precontact	Not Eligible
31ED192	Precontact	Not Eligible
31ED193	Precontact	Not Eligible
31ED194	Precontact	Not Eligible
31ED195	Precontact	Not Eligible
31ED197	Precontact	Not Eligible
31ED198	Precontact	Not Eligible
31ED199	Precontact	Not Eligible
31ED200	Precontact	Not Eligible
31ED201	Precontact	Not Eligible
31ED202	Precontact	Not Eligible
31ED203	Precontact	Not Eligible
31ED204	Precontact	Not Eligible
31ED212	Precontact	Not Eligible
31ED264	Precontact	Not Eligible
31ED265	Precontact	Unassessed
31ED266	Precontact	Unassessed
31ED267	Precontact	Not Eligible
31ED270	Precontact	Not Eligible
31ED370	Precontact	Not Eligible

All but one of the sites (31ED370) were recorded between 1988 and 1989 during an archaeological survey for the proposed relocation of US Highway 64 in Edgecombe, Martin, and Pitt Counties (Lautzenheiser 1989). Of these sites, additional work was recommended at sites 31ED179, 31ED183, 31ED200, 31ED265, and 31CD266. The remaining sites were recommended not eligible for the NRHP. Site 31ED183 is associated with the Danielhurst House. Additional investigations were conducted at Site 31ED200 during 1993 and 1994 by North Carolina Department of Transportation (NCDOT) archaeologists (Gray 1995). It was determined that the site was not eligible for the NRHP.

Site 31ED370, Whitehead's Ridge, is a precontact period site that was recorded by East Carolina University in 2006. The site was recommended not eligible for the NRHP.

Map Research

Topographic maps, United States Department of Agriculture (USDA) soil survey maps, and historical maps were examined for information on natural or cultural factors that might have affected site locations or preservation. In general, the historical maps available were not at a scale sufficient to show possible structure locations with any accuracy or detail. Historical aerial photography was also consulted to determine changes in land use over time as well as to look for former structure locations.

No structures are depicted within the project area on the 1902 Tarboro, NC topographic quadrangle (1:62,500), the 1905 Map of Edgecombe County, or the 1908 Edgecombe County Soil Map (**Figures 2 to 4**).

Aerial imagery from 1948 shows the project area as consisting primarily of wooded areas and agricultural fields (**Figure 5**). Approximately four structures are visible along a road in the central and eastern portions of the project area. Five structures are visible in imagery from 1970, as well as a possible structure or other feature in the western portion (**Figure 6**). The majority of the structures appear to have been demolished by 1982. Imagery from 1998 shows possible recent logging of portions of the project area and the construction of US Highway 64. By 2005, the entire project area is wooded, and no structures are visible. Imagery from 2016 shows the area as having been recently logged (**Figure 7**). The remains of two dilapidated structures are visible in imagery from 2017 (**Figure 8**).

A cemetery is located on a parcel adjacent to the project area (**Figure 9**). According to a 1994 quitclaim deed, graves were relocated by NCDOT to the parcel from the Worsley/Knight Cemetery in relation to the construction of a highway project (Deed Book 1134 Page 42). No other information about the cemetery could be located at the time of research. As the cemetery was relocated to this parcel by NCDOT in 1994, it is unlikely that unmarked graves are present within this deed parcel.

In summary, review of historical maps and aerial photographs suggests that there is a potential for historic period sites to be present within the project area. However, previous ground disturbance from logging activities may have reduced the likelihood of finding intact, significant archaeological resources.

Given the project's proximity to the Danielhurst House and a cemetery, as well as numerous archaeological sites mapped near the project study area, it is recommended that SHPO be consulted to determine whether cultural resources surveys may be required in the event that federal permitting or funding triggers compliance with Section 106 of the *National Historic Preservation Act (NHPA 1966, as amended).*

No fieldwork was conducted as part of this cultural resources records review. Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographic area during the same period. Terracon makes no warranties, expressed or implied, regarding its services, findings, conclusions or recommendations. Please note that Terracon does not warrant the work of regulatory agencies or other third parties supplying information.

We appreciate the opportunity to assist you with this project. If you have any questions or comments regarding this memo, please feel free to contact me at *melissa.mckay@terracon.com* or (984) 204-1948.

Sincerely,
Terracon Consultants, Inc.

Melissa McKay, RPA
Project Manager–Cultural Resources

Terri Russ, RPA
Department Manager–Cultural Resources

REFERENCES CITED

Gray, Anna, Gerold Glover, and Thomas Padgett
1995 *Archaeological Investigations of Six Sites along the Proposed Relocation of US 64, Tarboro to Parmele, Edgecombe County, TIP No. R-2111.* North Carolina Department of Transportation, Raleigh, North Carolina.

Lautzenheiser, Loretta
1989 *Archaeological Survey of US 64 Relocation, Tarboro to Parmele, Edgecombe, Martin and Pitt Counties, North Carolina, R-2111.* Coastal Carolina Research, Inc., Tarboro, North Carolina. Ms. On file, Office of State Archaeology, Raleigh, North Carolina.

Pike, Albert and W. N. Brown
1905 *Map of Edgecombe County, North Carolina.* On file, North Carolina State Archives, Raleigh. https://dc.lib.unc.edu/cdm/ref/collection/ncmaps/id/271, accessed June 2023.

United States Bureau of Soils: North Carolina Department of Agriculture
1908 *Soil Survey of Edgecombe County, North Carolina*. On file, North Carolina State Archives, Raleigh. https://dc.lib.unc.edu/cdm/singleitem/collection/ncmaps/id/853/rec/15, accessed June 2023.

United States Geological Survey (USGS)
1902 *Tarboro, N.C.* 1:62,500, Topographic Quadrangle Map. U.S. Department of the Interior, Washington D.C.

Figure 1: Project Location

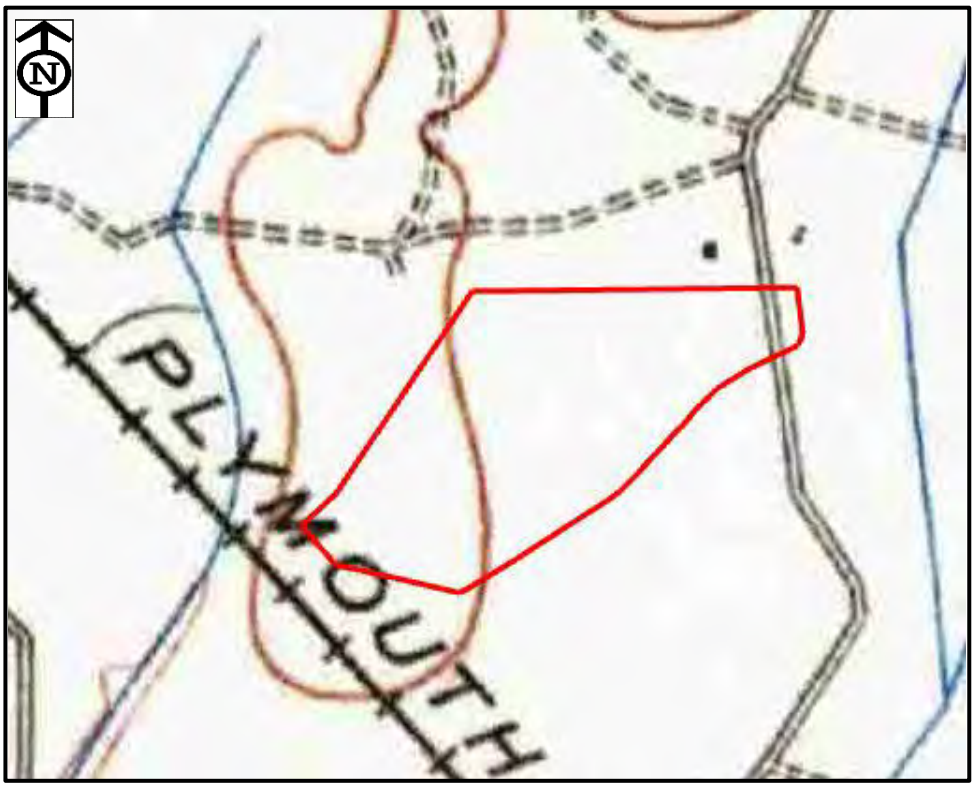


Figure 2: 1902 Tarboro, NC USGS Topographic Map (1:62,500) (Project Area is Approximate)

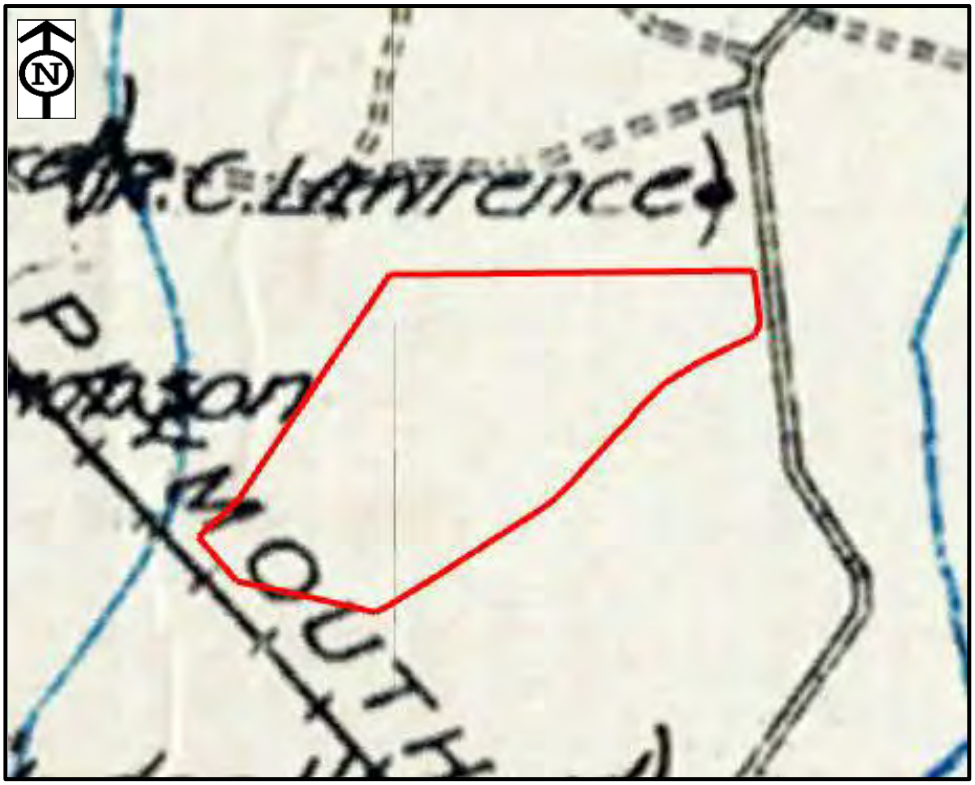


Figure 3: 1905 Map of Edgecombe County (Project Area is Approximate)

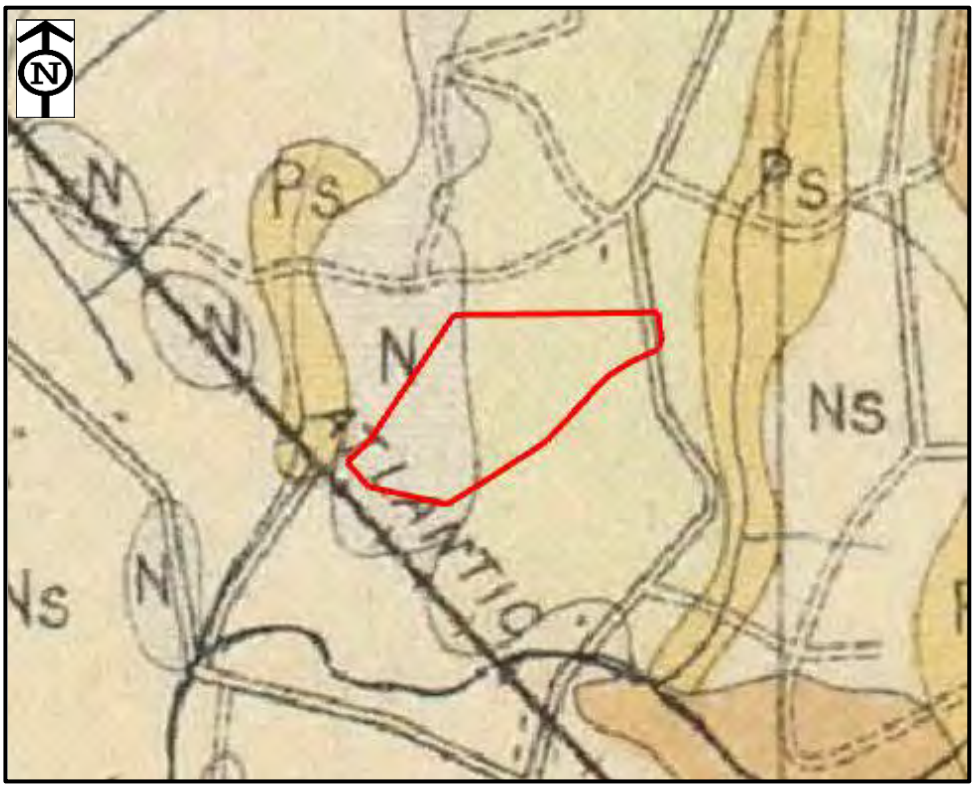


Figure 4: 1908 Edgecombe County Soil Map (Project Area is Approximate)

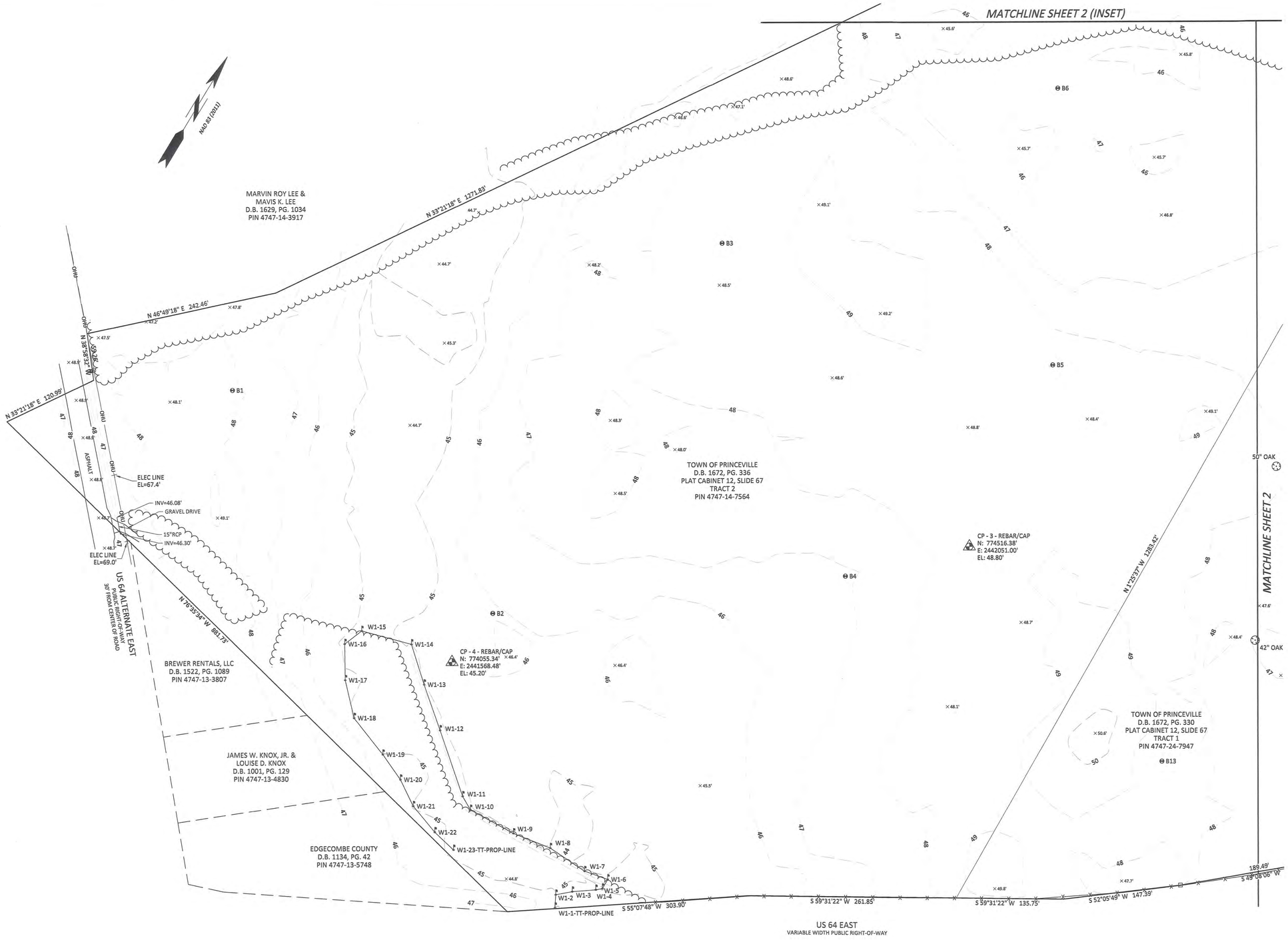
Figure 5: 1948 Aerial Imagery Showing Structures (Project Area is Approximate)

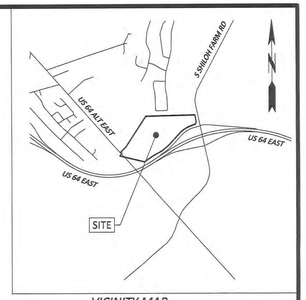
Figure 6: 1970 Aerial Imagery Showing Structures (Project Area is Approximate)
Source: NCDOT Aerial Imagery Index

Figure 7: 2016 Google Earth Imagery

Figure 8: 2017 Google Earth Imagery Showing Remains of Dilapidated Structures

Figure 9: Cemetery Located Adjacent to Project Area





VICINITY MAP
NOT TO SCALE

LEGEND

- SURVEY CONTROL POINT
- IPF — IRON PIPE FOUND
- IRF — IRON ROD FOUND
- CMF — CONCRETE MONUMENT FOUND
- BORE HOLE FOUND
- WETLAND FLAG FOUND
- GUY WIRE
- UTILITY POLE
- TELEPHONE PEDESTAL
- SIGN
- DECIDUOUS TREE
- PROPERTY LINE PER PLAT
- PROPERTY LINE PER GIS
- OHU — OVERHEAD UTILITY LINE
- FENCELINE
- TREELINE
- MINOR CONTOUR
- MAJOR CONTOUR

NOTES

1. THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS ON THE PORTIONS OF THE PROPERTY SHOWN HEREON. PROPERTY LINES SHOWN ARE BASED ON PLAT CABINET 12, SLIDE 67, EDGECOMBE COUNTY REGISTRY, AND IS NOT A BOUNDARY SURVEY.
2. HORIZONTAL DATUM IS NAD 83 (2011) AND VERTICAL DATUM IS NAVD 88, BASED ON GPS OBSERVATIONS AND RTK SOLUTIONS FROM THE NC VRS NETWORK AND LOCALIZED AT STRATEGIC POINT HAVING COORDINATES OF N: 774800.0', E: 2442200.0' & EL: 48.0'. GRID TO GROUND FACTOR 1.0000661029.
3. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN US SURVEY FEET, UNLESS NOTED OTHERWISE.
4. THE SUBJECT PROPERTIES DO NOT LIE IN A SPECIAL FLOOD HAZARD AREA PER THE NATIONAL FLOOD INSURANCE RATE MAP 3720474600J, DATED 11/3/2004.

SURVEYOR CERTIFICATION

I, RICHARD W. PENCI, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS AA AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON 7/25/2019; THAT THE SURVEY WAS COMPLETED ON 9/19/2019; AND ALL COORDINATES ARE BASED ON 'NAD 83' AND REALIZATION (2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88.

Richard W. Penci 9/23/2019

RICHARD W. PENCI, PLS L-5023 DATE

NORTH CAROLINA PROFESSIONAL SEAL L-5023 LAND SURVEYOR RICHARD W. PENCI

60' 30' 0 60'
1" = 60'

REVISIONS

THE WOOTEN COMPANY
120 North Boylan Avenue Raleigh NC 27603-1423
919.828.0531 fax 919.834.3589
License Number: F-0115

PLAT OF EXISTING CONDITIONS SURVEY OF TOWN OF PRINCEVILLE, NC PROPERTY

Prepared For
S & M E
3201 SPRING FOREST DRIVE
RALEIGH, NC 27616

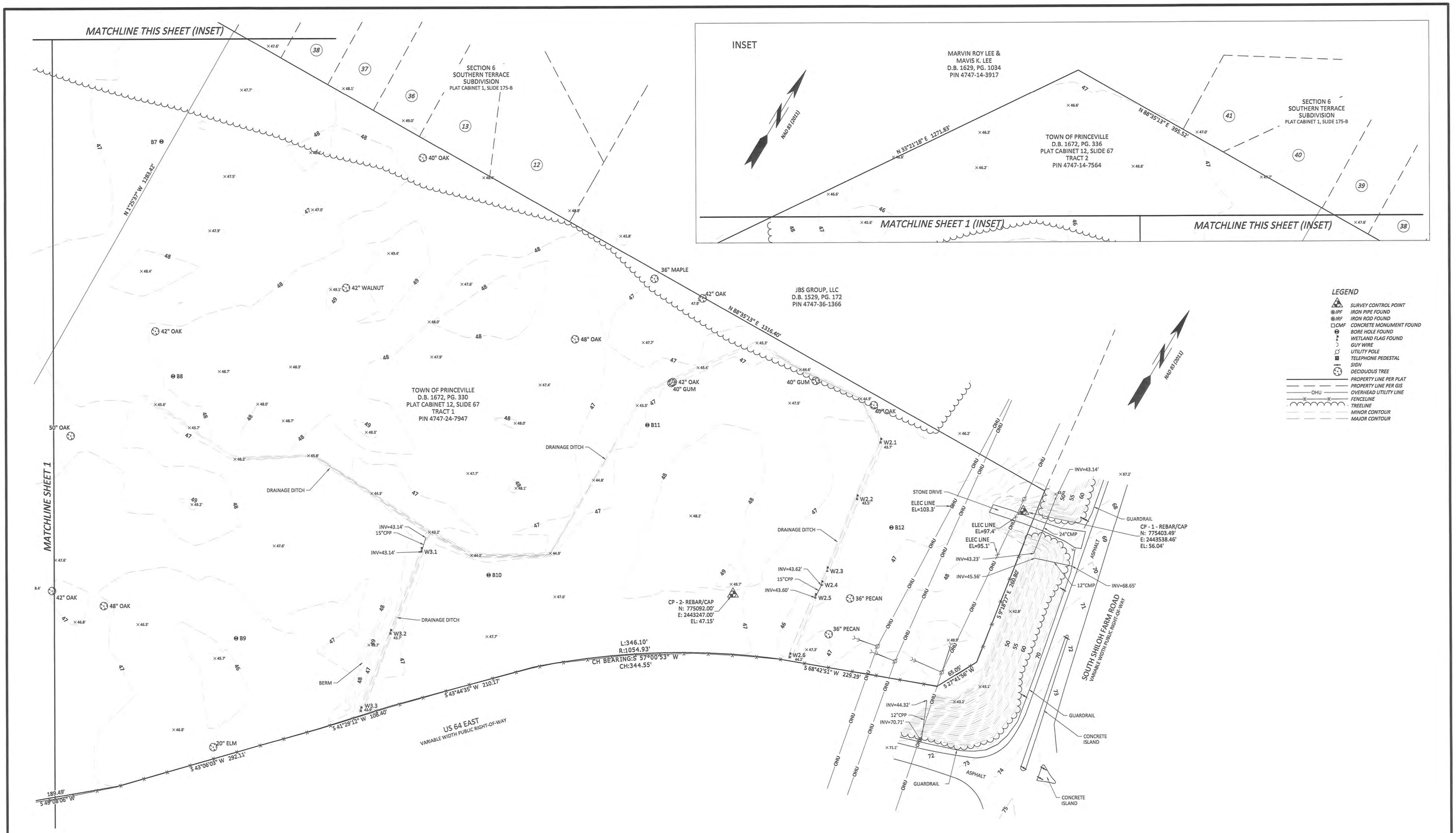
White Oak Township | Edgecombe County | North Carolina

SURVEYOR:	MRH
DRAWN BY:	RWP
CHECKED BY:	TRI
PROJECT NO.:	3264-G
DATE:	SEPT. 23, 2019
FIELD BOOK:	MRH

SHEET 1 OF 2

1

DOC. NO. 3264G-D001



REVISIONS

THE WOOTEN COMPANY
120 North Boylan Avenue Raleigh NC 27603-1423
919.828.0531 fax 919.834.3589
License Number: F-0115

PLAT OF EXISTING CONDITIONS SURVEY
OF TOWN OF PRINCEVILLE, NC PROPERTY

Prepared For
S & M E
3201 SPRING FOREST DRIVE
RALEIGH, NC 27616

White Oak Township | Edgecombe County | North Carolina

SURVEYOR:	MRH
DRAWN BY:	RWP
CHECKED BY:	TRI
PROJECT NO.:	3264-G
DATE:	SEPT. 23, 2019
FIELD BOOK:	MRH

SHEET 2 OF 2

2

60' 30' 0 60'
1" = 60'

NORTH CAROLINA PROFESSIONAL SEAL L-5023 LAND SURVEYOR RICHARD W. PENCE
9/23/2019

DOC. NO.3264G-D001

Tribal Directory Assessment Information

Contact Information for Tribes with Interests in Edgecombe County, North Carolina

	Tribal Name	County Name
−	Catawba Indian Nation (aka Catawba Indian Tribe of South Carolina)	Edgecombe

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Bill Harris	Chief	996 Avenue of the Nations, Rock Hill, SC - 29730	(803) 366-4792	(803) 327-4853	bill.harris@catawbaindian.net	www.CatawbaCulture.org
Dr. Wenonah G. Haire	THPO and Catawba Cultural Center Executive Director	1536 Tom Steven Road, Rock Hill, SC - 29730	(803) 328-2427 ext. 224	(803) 328-5791	wenonah.haire@catawba.com	www.CatawbaCulture.org

−	Tuscarora Nation	Edgecombe

Contact Name	Title	Mailing Address	Work Phone	Fax Number	Email Address	URL
Tom Jonathan	Chief	5226 Walmore Road, Via Lewistown, NY - 14092	(716) 264-6007 x110		tuscnationhouse@gmail.com	
Bryan Printup	Representative	5226 Walmore Rd, Lewiston, NY - 14092	(716) 264-6011		bprintup@hetf.org	

1 - 2 of 2 results

« ‹ 1 › » 10

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

Office 803-328-2427

December 4, 2023

Attention: Andrea Gievers
NC Department of Public Safety
P.O. Box 110465
Durham, NC 27709

Re. THPO #	TCNS #	Project Description
2024-1119-1		Princeville 53-acre site redevelopment – Princeville, NC

Dear Ms. Gievers,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail Caitlin.Rogers@catawba.com.

Sincerely,

Caitlin Rogers for

Wenonah G. Haire
Tribal Historic Preservation Officer

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 1, 2023

Chief Bill Harris
Catawba Indian Nation
996 Avenue of the Nations
Rock Hill, SC 29730

RE: Section 106 Review - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Chief Bill Harris:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD), is serving as the responsible entity for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. NCORR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation.

NCORR processes environmental reviews for proposed projects funded with HUD CDBG-MIT on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470f), and its implementing regulations, 36 CFR Part 800, this letter serves as notification of the proposed action. This letter also serves as an invitation to discussion as a consulting party in this review to help identify historic properties in the proposed project area that may have religious and cultural significance to your Nation, and if such properties exist, to help assess how the proposed project might affect them. If the proposed project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

Mailing Address:
Post Office Box 110465
Durham, NC 27709

NCORR
NORTH CAROLINA OFFICE OF RECOVERY AND RESILIENCY

Phone: (984) 833-5350
www.ncdps.gov
www.rebuild.nc.gov

An Equal Opportunity Employer

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as 0.25-mile from the boundary of the Subject Property located at 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres. There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West (see *Site Plans* in **Attachment 1**).

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits

including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project site plans are included in **Attachment 1**.

We have completed an initial review of this project in compliance with Section 106 of the NHPA and its implementing regulations 36 CFR Part 800. Based on our research of the Subject Property in the National Register of Historic Places, North Carolina State Historic Preservation Office's (NC SHPO) HPOWEB, and site review, no publicly recorded historic properties which are locally designated or listed in or eligible for inclusion in the State or National Register of Historic Places are located on or adjacent to the Subject Property. According to HPOWEB, there is one SLDOE site, Danielhurst federal house (ED0864), located within a 0.5-mile radius of the Subject Property. The results are included in **Attachment 2**. Based on Terracon's search at the NC Office of State Archeology, there are no mapped archaeological sites on the Subject Property but 27 sites mapped within a 0.5-mile radius (see *Cultural Resources Desktop Review* in **Attachment 3**). A cemetery is located on a southwestern adjacent parcel, and NCDOT relocated graves to that parcel from the Worsley/Knight Cemetery circa 1994 to enable highway construction. No project activities are proposed at the cemetery parcel.

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure along with the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020). The residential trailer onsite reportedly burned to the ground in 2019.

The proposed project information is being sent to the NC SHPO and the Tuscarora Nation in accordance with Section 106 of the NHPA and its implementing regulations, 36 CFR Part 800. The proposed development will include typical clearing and grading on the Subject Property during construction.

With this letter, NCORR respectfully submits for your review the attached documentation for the proposed project described herein. If the APE encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days of receipt of this letter indicating a desire to consult. If you have any concerns with potential impacts of the proposed project on historic properties, please note them in your response along with your preferred principal representative's point of contact. Please respond within this timeframe, otherwise we will assume that the proposed project will have no effect to historic properties of religious or cultural significance. Please respond via email at Andrea.L.Gievers@Rebuild.NC.gov or in writing to the address listed below.

Ms. Andrea Gievers
NCORR - Environmental
ATTN: THPO Comments
P.O. Box 110465
Durham, NC 27709

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Proposed Project Enclosures:
Attachment 1: Proposed Project Location Maps and Site Plans
Attachment 2: NRHP and NC HPOWEB Maps
Attachment 3: Previous SHPO Response and Consultation by Terracon for 53-acre Site Only (Cultural Resources Records Review)

cc: Dr. Wenonah George Haire, THPO, Catawba Indian Nation, 1536 Tom Steven Road, Rock Hill, SC 29730

Section 106 ATTACHMENT 1:

Proposed Project Location Maps and Site Plans

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Princeville 53-Acre Site Redevelopment

Copyright:© 2013 National Geographic Society, i-cubed

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

0 50' 100' 200'

SCALE: 1"=100'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-0.02

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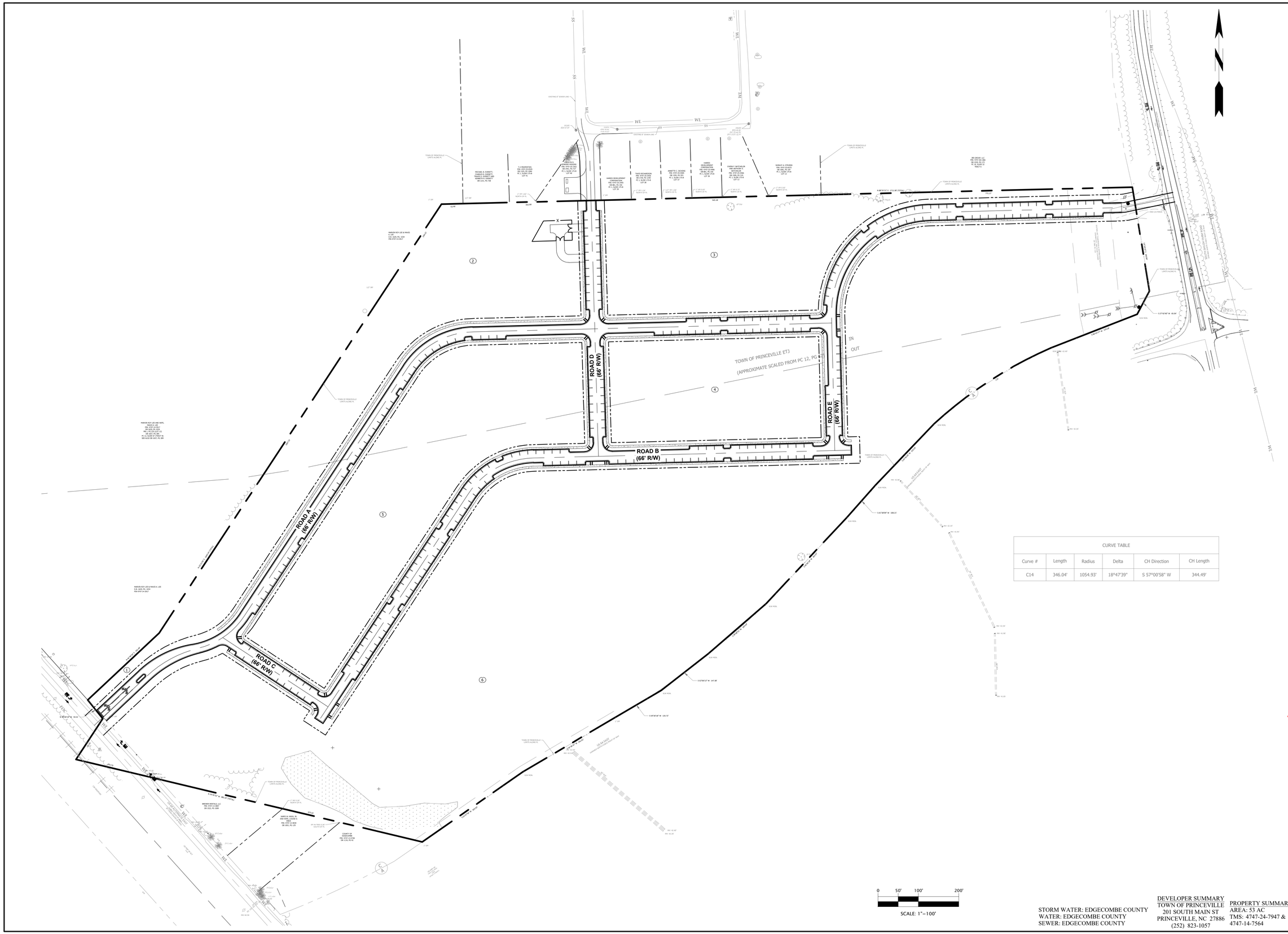

CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.00

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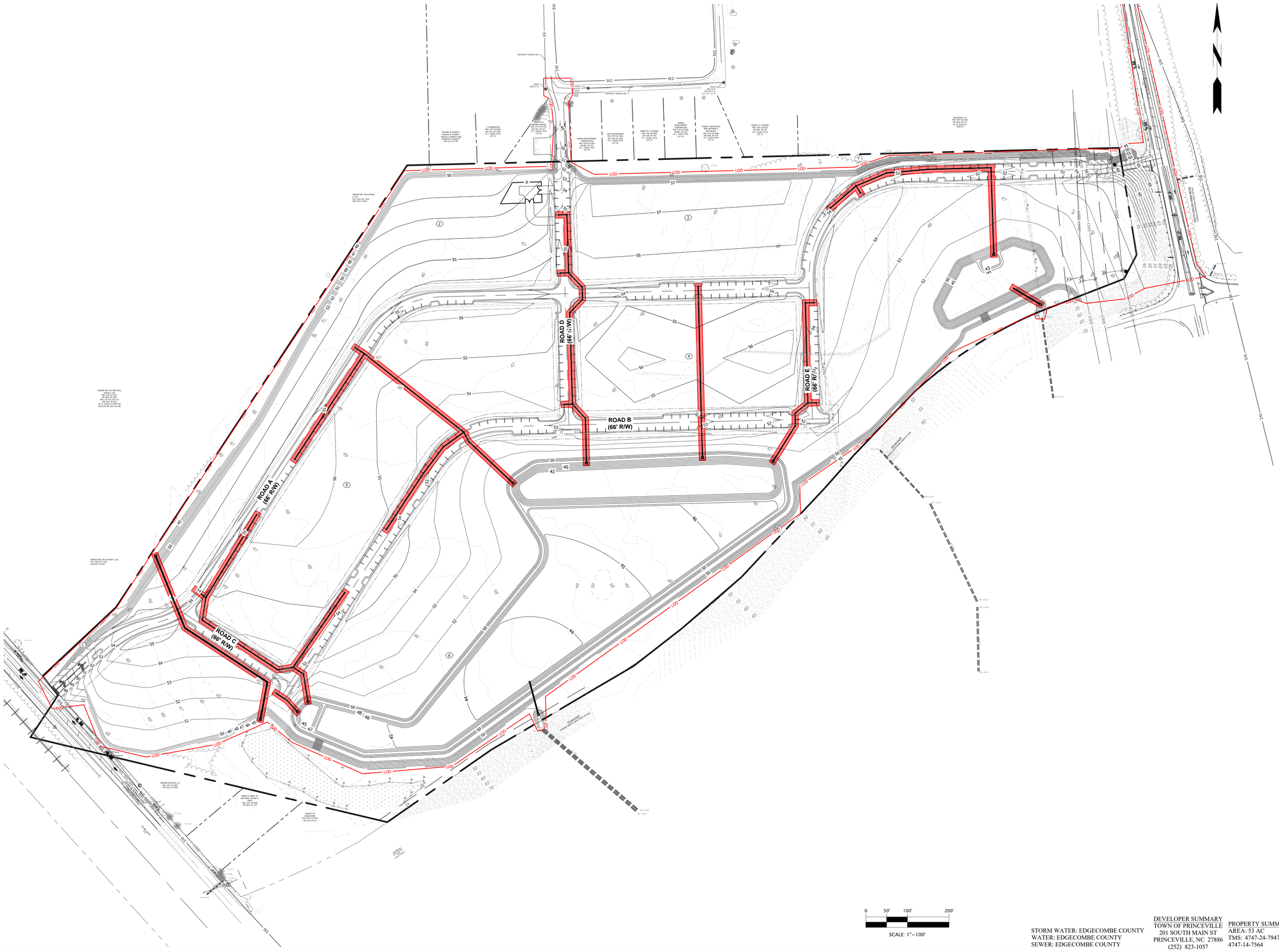


STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

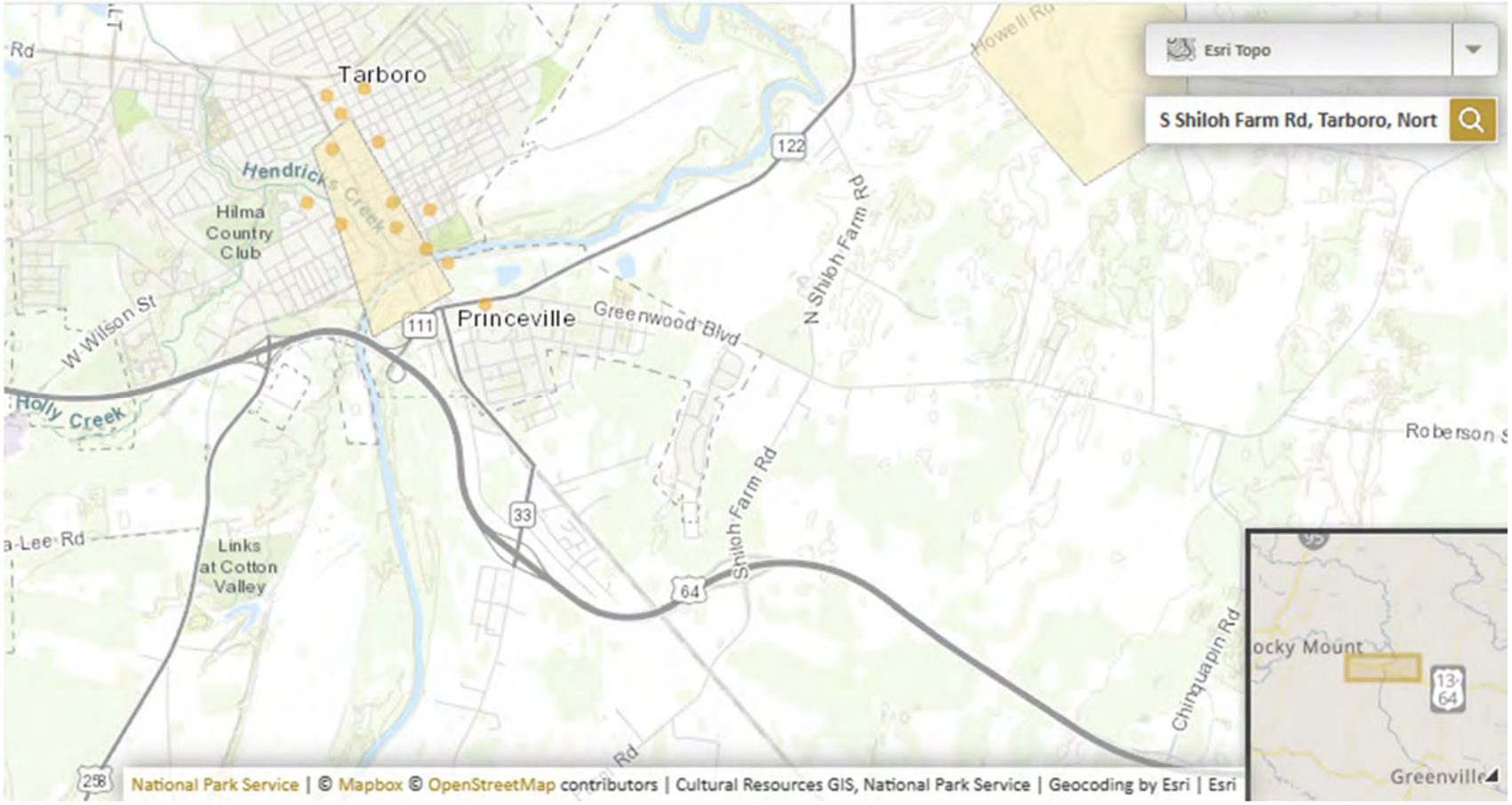
C-3.00

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GRADING.dwg JNIXON 7/13/2023 4:08 PM

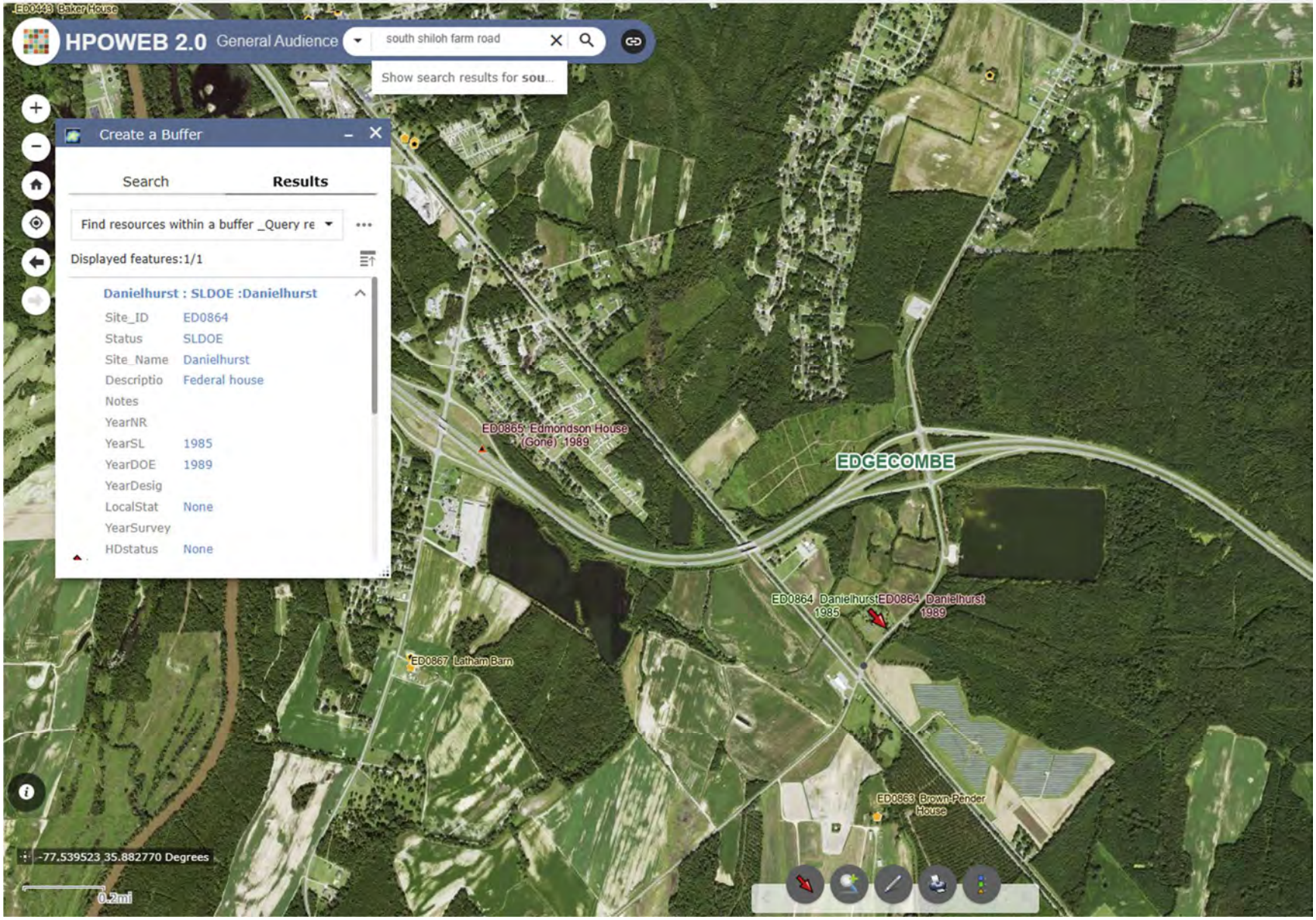
Section 106 ATTACHMENT 2:

NRHP and NC HPOWEB Maps

Princeville 53-acre Site Redevelopment – NRHP Map



Princeville 53-acre Site Redevelopment – NC HPOWEB with 0.5-mile Buffer



Section 106 ATTACHMENT 3:

Previous SHPO Response and Consultation by Terracon for 53-acre Site Only (Cultural Resources Records Review)

North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary D. Reid Wilson

Office of Archives and History
Deputy Secretary, Darin J. Waters, Ph.D.

July 10, 2023

MEMORANDUM

TO: Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@rebuild.nc.gov

FROM: Ramona M. Bartos, Deputy
State Historic Preservation Officer
RSL for Ramona M. Bartos

SUBJECT: Construct Mixed Use Development, South Shiloh Farm Road, US 64 Alternate, Princeville, Edgecombe County, ER 19-2343

Thank you for your letter of June 19, 2023, regarding the above-referenced undertaking. We have reviewed the submittal and offer the following comments.

We have determined that the project as proposed will not have an effect on any historic structures.

Based on our knowledge of the area, it is unlikely that any archaeological resources that may be eligible for inclusion in the National Register of Historic Places will be affected by the project. We, therefore, recommend that no archaeological investigation be conducted in connection with this project.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number.

2401 Brentwood Rd. Ste. 107
Raleigh, North Carolina 27604
P [919] 873 2211
F [919] 873 9555
terracon.com

June 19, 2023

The Wooten Company
Derrick Smith
301 W Fourteenth Street
Greenville, NC 27834

Re: Town of Princeville Properties
Cultural Resources Records Review
Edgecombe County, NC
Terracon Project No. ET237138

Mr. Smith,

Terracon Consultants, Inc. (Terracon) has conducted a desktop cultural resources records review for the approximately 53-acre project area located along US Highway 64 in Princeville, Edgecombe County, North Carolina (**Figure 1**).

Historical Resources

Research conducted using the North Carolina State Historic Preservation Office (SHPO) HPOWEB GIS service database on June 14, 2023, revealed that while no historical resources appear to be located within the project area, one resource is mapped within a 0.5-mile radius. The Danielhurst House (ED0864) is mapped approximately 0.35 mile southeast of the project area. This resource was placed on the North Carolina Study List in 1985. The Study List is a preliminary step towards determining the *National Register of Historic Places* (NRHP) eligibility for a resource and indicates that a resource may be potentially eligible for the NRHP. In 1989, it was determined that the resource was eligible for the NRHP.

Archaeological Sites

Research conducted by Terracon at the North Carolina Office of State Archaeology (OSA) on June 13, 2023, revealed that while no archaeological sites are mapped directly within the project area, 27 are mapped within a 0.5-mile radius (**Table 1**).

Table 1: Archaeological Sites Within 0.5 Mile of the Project Area

Site Number	Component	NRHP Status
31ED76	Precontact	Not Eligible
31ED178	Precontact	Not Eligible
31ED179	Historic	Unassessed
31ED181	Precontact	Not Eligible
31ED182	Precontact	Not Eligible
31ED183	Historic	Unassessed
31ED184	Historic	Not Eligible

Site Number	Component	NRHP Status
31ED185	Precontact	Not Eligible
31ED192	Precontact	Not Eligible
31ED193	Precontact	Not Eligible
31ED194	Precontact	Not Eligible
31ED195	Precontact	Not Eligible
31ED197	Precontact	Not Eligible
31ED198	Precontact	Not Eligible
31ED199	Precontact	Not Eligible
31ED200	Precontact	Not Eligible
31ED201	Precontact	Not Eligible
31ED202	Precontact	Not Eligible
31ED203	Precontact	Not Eligible
31ED204	Precontact	Not Eligible
31ED212	Precontact	Not Eligible
31ED264	Precontact	Not Eligible
31ED265	Precontact	Unassessed
31ED266	Precontact	Unassessed
31ED267	Precontact	Not Eligible
31ED270	Precontact	Not Eligible
31ED370	Precontact	Not Eligible

All but one of the sites (31ED370) were recorded between 1988 and 1989 during an archaeological survey for the proposed relocation of US Highway 64 in Edgecombe, Martin, and Pitt Counties (Lautzenheiser 1989). Of these sites, additional work was recommended at sites 31ED179, 31ED183, 31ED200, 31ED265, and 31CD266. The remaining sites were recommended not eligible for the NRHP. Site 31ED183 is associated with the Danielhurst House. Additional investigations were conducted at Site 31ED200 during 1993 and 1994 by North Carolina Department of Transportation (NCDOT) archaeologists (Gray 1995). It was determined that the site was not eligible for the NRHP.

Site 31ED370, Whitehead's Ridge, is a precontact period site that was recorded by East Carolina University in 2006. The site was recommended not eligible for the NRHP.

Map Research

Topographic maps, United States Department of Agriculture (USDA) soil survey maps, and historical maps were examined for information on natural or cultural factors that might have affected site locations or preservation. In general, the historical maps available were not at a scale sufficient to show possible structure locations with any accuracy or detail. Historical aerial photography was also consulted to determine changes in land use over time as well as to look for former structure locations.

No structures are depicted within the project area on the 1902 Tarboro, NC topographic quadrangle (1:62,500), the 1905 Map of Edgecombe County, or the 1908 Edgecombe County Soil Map (**Figures 2 to 4**).

Aerial imagery from 1948 shows the project area as consisting primarily of wooded areas and agricultural fields (**Figure 5**). Approximately four structures are visible along a road in the central and eastern portions of the project area. Five structures are visible in imagery from 1970, as well as a possible structure or other feature in the western portion (**Figure 6**). The majority of the structures appear to have been demolished by 1982. Imagery from 1998 shows possible recent logging of portions of the project area and the construction of US Highway 64. By 2005, the entire project area is wooded, and no structures are visible. Imagery from 2016 shows the area as having been recently logged (**Figure 7**). The remains of two dilapidated structures are visible in imagery from 2017 (**Figure 8**).

A cemetery is located on a parcel adjacent to the project area (**Figure 9**). According to a 1994 quitclaim deed, graves were relocated by NCDOT to the parcel from the Worsley/Knight Cemetery in relation to the construction of a highway project (Deed Book 1134 Page 42). No other information about the cemetery could be located at the time of research. As the cemetery was relocated to this parcel by NCDOT in 1994, it is unlikely that unmarked graves are present within this deed parcel.

In summary, review of historical maps and aerial photographs suggests that there is a potential for historic period sites to be present within the project area. However, previous ground disturbance from logging activities may have reduced the likelihood of finding intact, significant archaeological resources.

Given the project's proximity to the Danielhurst House and a cemetery, as well as numerous archaeological sites mapped near the project study area, it is recommended that SHPO be consulted to determine whether cultural resources surveys may be required in the event that federal permitting or funding triggers compliance with Section 106 of the *National Historic Preservation Act (NHPA 1966, as amended).*

No fieldwork was conducted as part of this cultural resources records review. Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographic area during the same period. Terracon makes no warranties, expressed or implied, regarding its services, findings, conclusions or recommendations. Please note that Terracon does not warrant the work of regulatory agencies or other third parties supplying information.

We appreciate the opportunity to assist you with this project. If you have any questions or comments regarding this memo, please feel free to contact me at *melissa.mckay@terracon.com* or (984) 204-1948.

Sincerely,
Terracon Consultants, Inc.

Melissa McKay, RPA
Project Manager–Cultural Resources

Terri Russ, RPA
Department Manager–Cultural Resources

REFERENCES CITED

Gray, Anna, Gerold Glover, and Thomas Padgett
1995 *Archaeological Investigations of Six Sites along the Proposed Relocation of US 64, Tarboro to Parmele, Edgecombe County, TIP No. R-2111.* North Carolina Department of Transportation, Raleigh, North Carolina.

Lautzenheiser, Loretta
1989 *Archaeological Survey of US 64 Relocation, Tarboro to Parmele, Edgecombe, Martin and Pitt Counties, North Carolina, R-2111.* Coastal Carolina Research, Inc., Tarboro, North Carolina. Ms. On file, Office of State Archaeology, Raleigh, North Carolina.

Pike, Albert and W. N. Brown
1905 *Map of Edgecombe County, North Carolina.* On file, North Carolina State Archives, Raleigh. https://dc.lib.unc.edu/cdm/ref/collection/ncmaps/id/271, accessed June 2023.

United States Bureau of Soils: North Carolina Department of Agriculture
1908 *Soil Survey of Edgecombe County, North Carolina*. On file, North Carolina State Archives, Raleigh. https://dc.lib.unc.edu/cdm/singleitem/collection/ncmaps/id/853/rec/15, accessed June 2023.

United States Geological Survey (USGS)
1902 *Tarboro, N.C.* 1:62,500, Topographic Quadrangle Map. U.S. Department of the Interior, Washington D.C.

Figure 1: Project Location

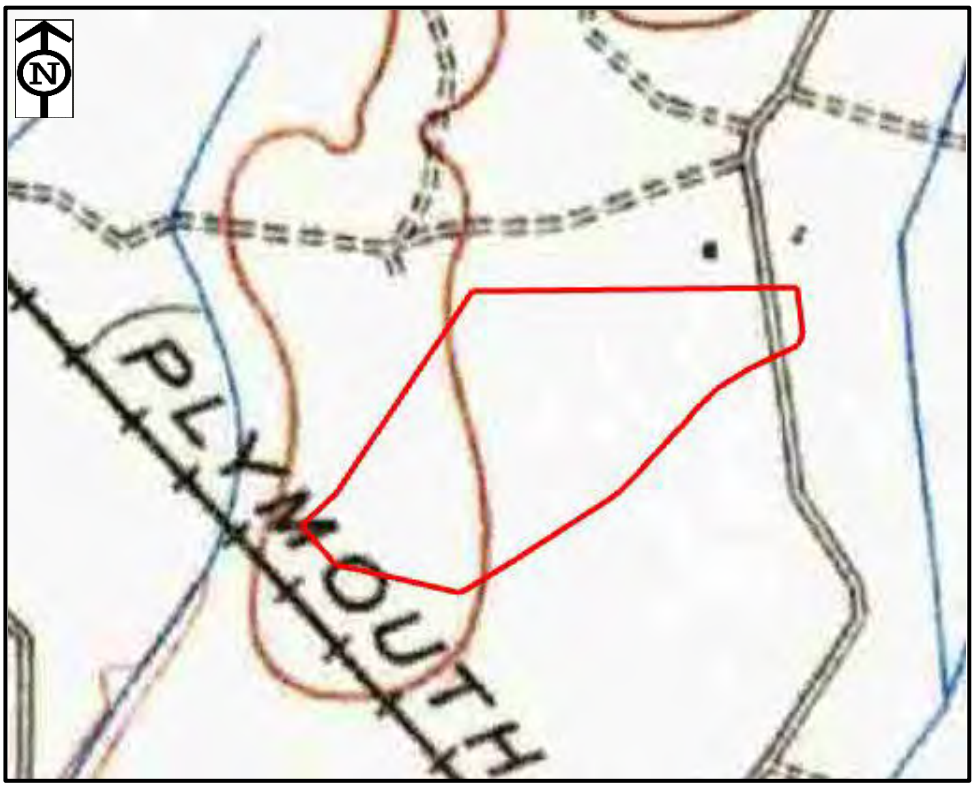


Figure 2: 1902 Tarboro, NC USGS Topographic Map (1:62,500) (Project Area is Approximate)

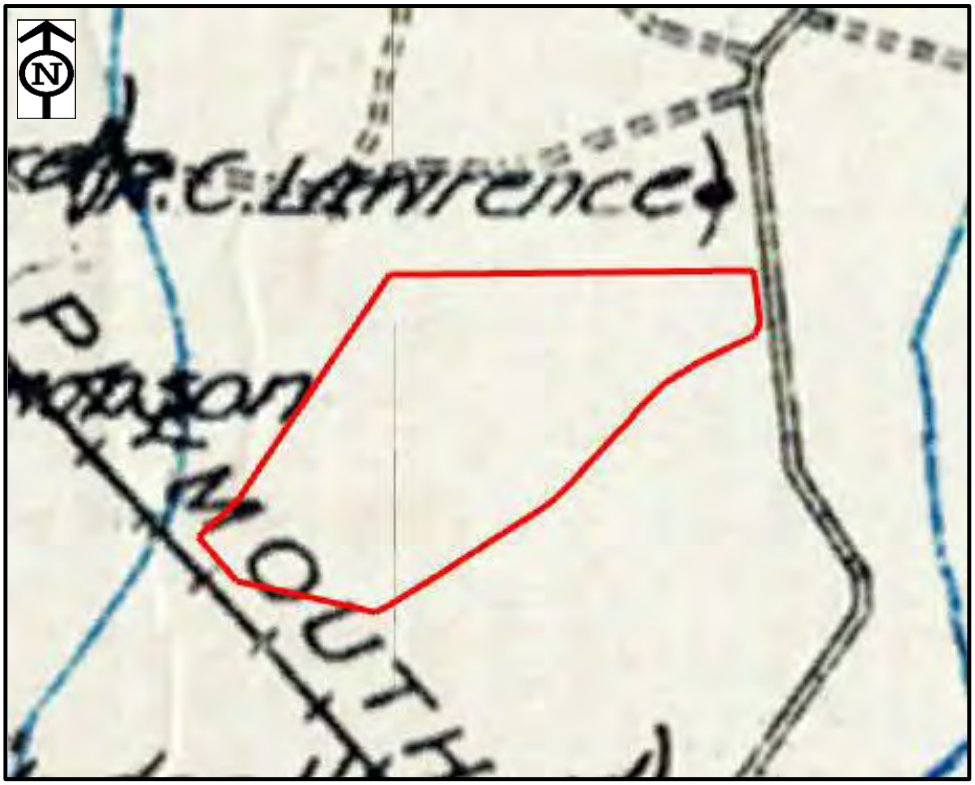


Figure 3: 1905 Map of Edgecombe County (Project Area is Approximate)

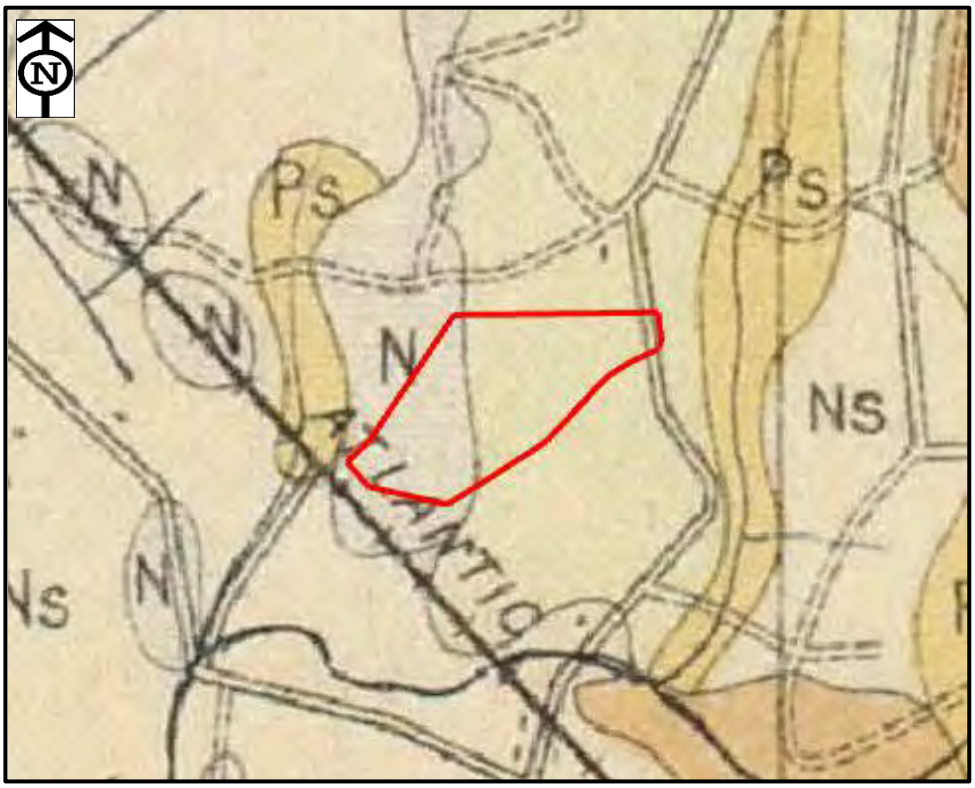


Figure 4: 1908 Edgecombe County Soil Map (Project Area is Approximate)

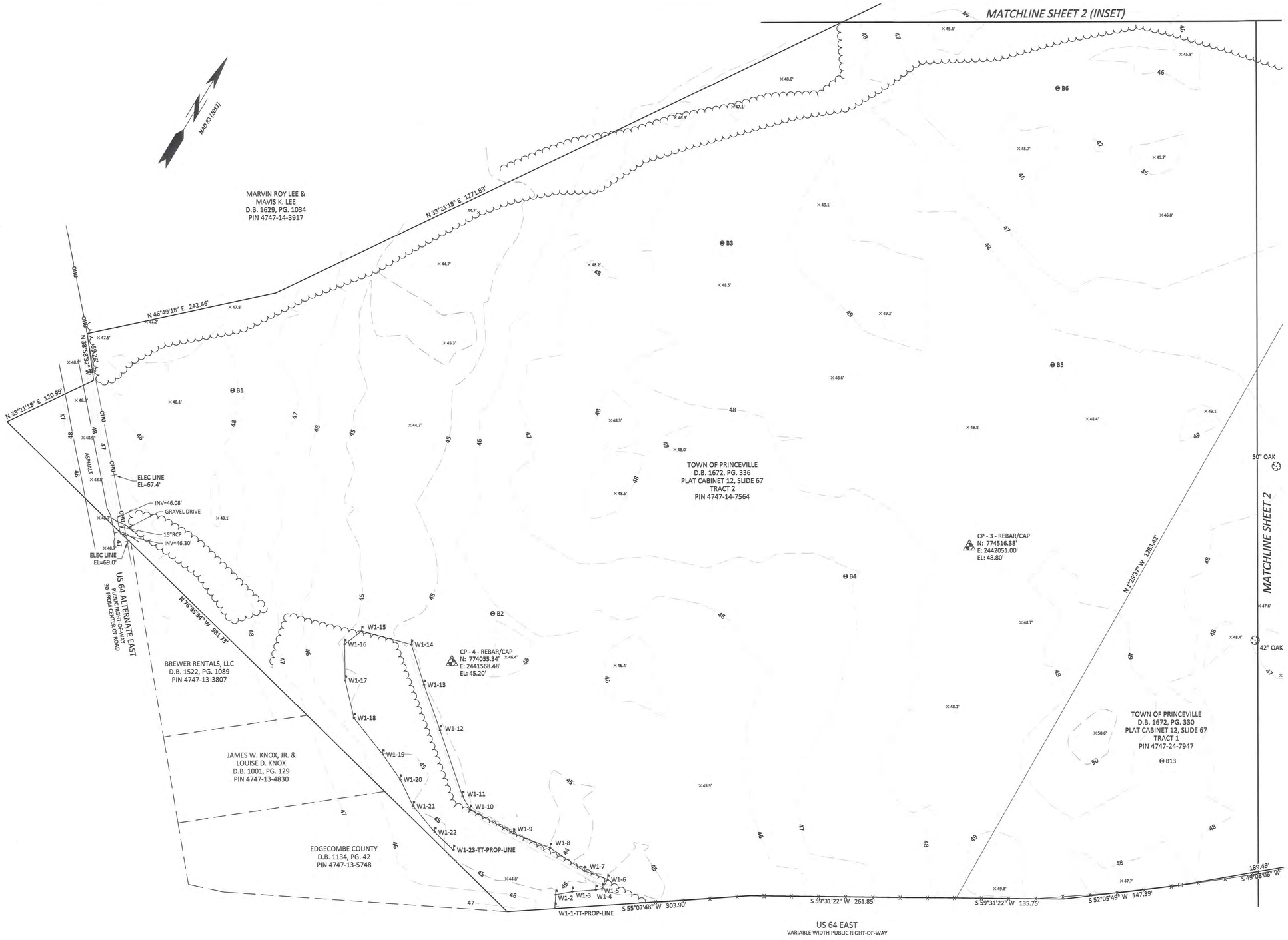
Figure 5: 1948 Aerial Imagery Showing Structures (Project Area is Approximate)

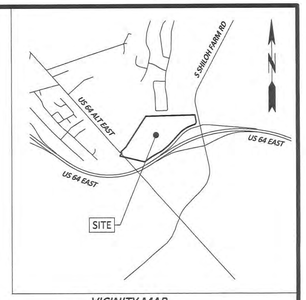
Figure 6: 1970 Aerial Imagery Showing Structures (Project Area is Approximate)
Source: NCDOT Aerial Imagery Index

Figure 7: 2016 Google Earth Imagery

Figure 8: 2017 Google Earth Imagery Showing Remains of Dilapidated Structures

Figure 9: Cemetery Located Adjacent to Project Area





VICINITY MAP
NOT TO SCALE

LEGEND

- SURVEY CONTROL POINT
- IPF — IRON PIPE FOUND
- IRF — IRON ROD FOUND
- CMF — CONCRETE MONUMENT FOUND
- BORE HOLE FOUND
- WETLAND FLAG FOUND
- GUY WIRE
- UTILITY POLE
- TELEPHONE PEDESTAL
- SIGN
- DECIDUOUS TREE
- PROPERTY LINE PER PLAT
- PROPERTY LINE PER GIS
- OHU — OVERHEAD UTILITY LINE
- FENCELINE
- TREELINE
- MINOR CONTOUR
- MAJOR CONTOUR

NOTES

1. THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS ON THE PORTIONS OF THE PROPERTY SHOWN HEREON. PROPERTY LINES SHOWN ARE BASED ON PLAT CABINET 12, SLIDE 67, EDGECOMBE COUNTY REGISTRY, AND IS NOT A BOUNDARY SURVEY.
2. HORIZONTAL DATUM IS NAD 83 (2011) AND VERTICAL DATUM IS NAVD 88, BASED ON GPS OBSERVATIONS AND RTK SOLUTIONS FROM THE NC VRS NETWORK AND LOCALIZED AT STRATEGIC POINT HAVING COORDINATES OF N: 774800.0', E: 2442200.0' & EL: 48.0'. GRID TO GROUND FACTOR 1.0000661029.
3. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN US SURVEY FEET, UNLESS NOTED OTHERWISE.
4. THE SUBJECT PROPERTIES DO NOT LIE IN A SPECIAL FLOOD HAZARD AREA PER THE NATIONAL FLOOD INSURANCE RATE MAP 3720474600J, DATED 11/3/2004.

SURVEYOR CERTIFICATION

I, RICHARD W. PENCI, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS AA AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON 7/25/2019; THAT THE SURVEY WAS COMPLETED ON 9/19/2019; AND ALL COORDINATES ARE BASED ON 'NAD 83' AND REALIZATION (2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88.

Richard W. Penci 9/23/2019

RICHARD W. PENCI, PLS L-5023 DATE

NORTH CAROLINA PROFESSIONAL SEAL L-5023 LAND SURVEYOR RICHARD W. PENCI

60' 30' 0 60'
1" = 60'

REVISIONS

THE WOOTEN COMPANY
120 North Boylan Avenue Raleigh NC 27603-1423
919.828.0531 fax 919.834.3589
License Number: F-0115

PLAT OF EXISTING CONDITIONS SURVEY OF TOWN OF PRINCEVILLE, NC PROPERTY

Prepared For
S & M E
3201 SPRING FOREST DRIVE
RALEIGH, NC 27616

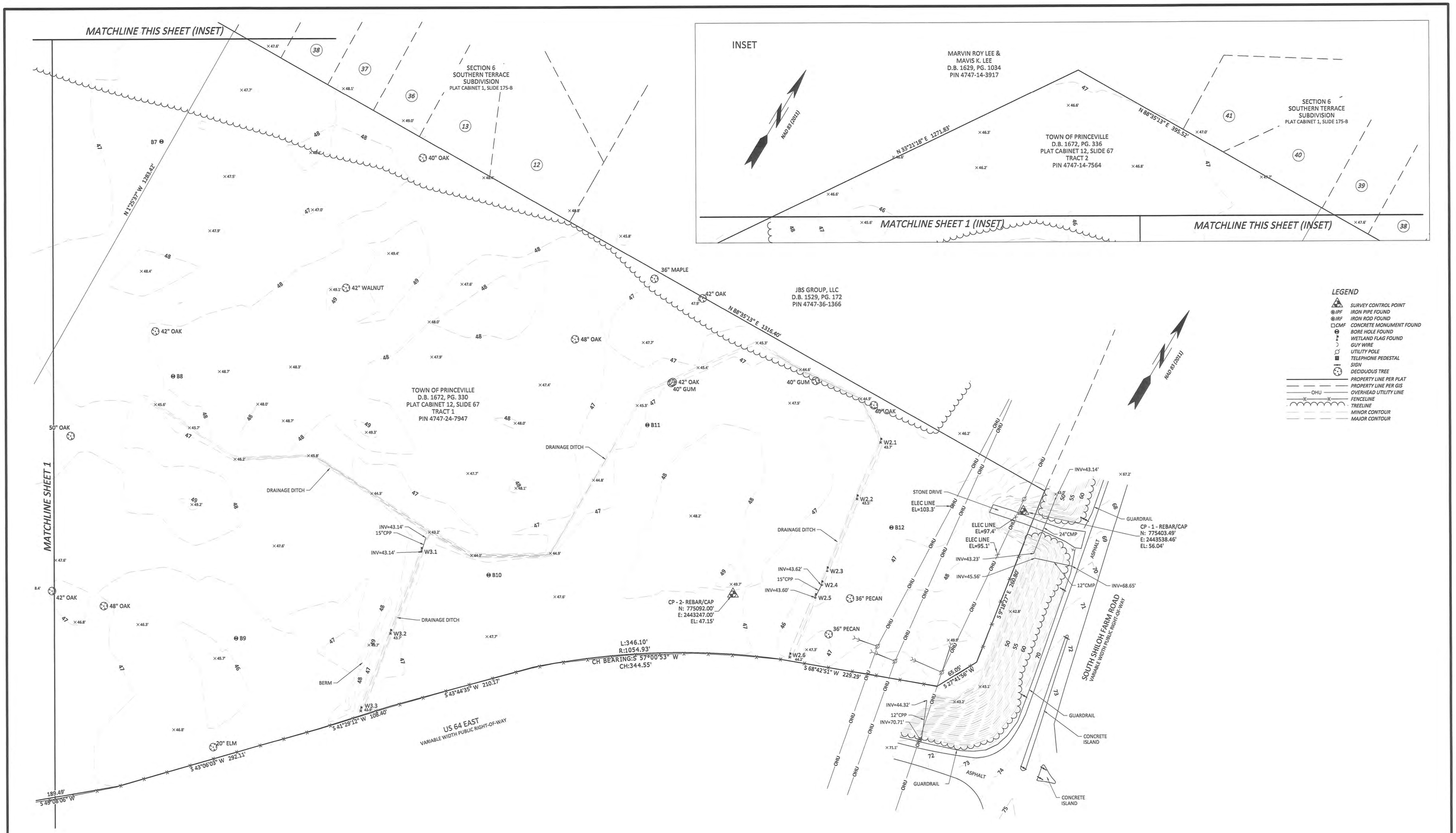
White Oak Township | Edgecombe County | North Carolina

SURVEYOR:	MRH
DRAWN BY:	RWP
CHECKED BY:	TRI
PROJECT NO.:	3264-G
DATE:	SEPT. 23, 2019
FIELD BOOK:	MRH

SHEET 1 OF 2

1

DOC. NO. 3264G-D001



REVISIONS

THE WOOTEN COMPANY
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919.828.0531 fax 919.834.3589
License Number: F-0115

PLAT OF EXISTING CONDITIONS SURVEY
OF TOWN OF PRINCEVILLE, NC PROPERTY

Prepared For
S & M E
3201 SPRING FOREST DRIVE
RALEIGH, NC 27616

White Oak Township | Edgecombe County | North Carolina

SURVEYOR:	MRH
DRAWN BY:	RWP
CHECKED BY:	TRI
PROJECT NO.:	3264-G
DATE:	SEPT. 23, 2019
FIELD BOOK:	MRH

SHEET 2 OF 2

2

60' 30' 0 60'
1" = 60'

NORTH CAROLINA PROFESSIONAL SEAL L-5023 LAND SURVEYOR RICHARD W. PENCE
9/23/2019

DOC. NO.3264G-D001

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 1, 2023

Dr. Wenonah George Haire
ATTN: THPO
Catawba Indian Nation
1536 Tom Steven Road
Rock Hill, SC 29730

RE: Section 106 Review - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Dr. Wenonah George Haire:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD), is serving as the responsible entity for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. NCORR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation.

NCORR processes environmental reviews for proposed projects funded with HUD CDBG-MIT on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470f), and its implementing regulations, 36 CFR Part 800, this letter serves as notification of the proposed action. This letter also serves as an invitation to discussion as a consulting party in this review to help identify historic properties in the proposed project area that may have religious and cultural significance to your Nation, and if such properties exist, to help assess how the proposed project might affect them. If the proposed project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as 0.25-mile from the boundary of the Subject Property located at 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres. There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West (see *Site Plans* in **Attachment 1**).

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits

including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project site plans are included in **Attachment 1**.

We have completed an initial review of this project in compliance with Section 106 of the NHPA and its implementing regulations 36 CFR Part 800. Based on our research of the Subject Property in the National Register of Historic Places, North Carolina State Historic Preservation Office's (NC SHPO) HPOWEB, and site review, no publicly recorded historic properties which are locally designated or listed in or eligible for inclusion in the State or National Register of Historic Places are located on or adjacent to the Subject Property. According to HPOWEB, there is one SLDOE site, Danielhurst federal house (ED0864), located within a 0.5-mile radius of the Subject Property. The results are included in **Attachment 2**. Based on Terracon's search at the NC Office of State Archeology, there are no mapped archaeological sites on the Subject Property but 27 sites mapped within a 0.5-mile radius (see *Cultural Resources Desktop Review* in **Attachment 3**). A cemetery is located on a southwestern adjacent parcel, and NCDOT relocated graves to that parcel from the Worsley/Knight Cemetery circa 1994 to enable highway construction. No project activities are proposed at the cemetery parcel.

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure along with the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020). The residential trailer onsite reportedly burned to the ground in 2019.

The proposed project information is being sent to the NC SHPO and the Tuscarora Nation in accordance with Section 106 of the NHPA and its implementing regulations, 36 CFR Part 800. The proposed development will include typical clearing and grading on the Subject Property during construction.

With this letter, NCORR respectfully submits for your review the attached documentation for the proposed project described herein. If the APE encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days of receipt of this letter indicating a desire to consult. If you have any concerns with potential impacts of the proposed project on historic properties, please note them in your response along with your preferred principal representative's point of contact. Please respond within this timeframe, otherwise we will assume that the proposed project will have no effect to historic properties of religious or cultural significance. Please respond via email at Andrea.L.Gievers@Rebuild.NC.gov or in writing to the address listed below.

Ms. Andrea Gievers
NCORR - Environmental
ATTN: THPO Comments
P.O. Box 110465
Durham, NC 27709

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Proposed Project Enclosures:
Attachment 1: Proposed Project Location Maps and Site Plans
Attachment 2: NRHP and NC HPOWEB Maps
Attachment 3: Previous SHPO Response and Consultation by Terracon for 53-acre Site Only (Cultural Resources Records Review)

cc: Chief Bill Harris, Catawba Indian Nation, 996 Avenue of the Nations, Rock Hill, SC 29730

Section 106 ATTACHMENTS:

Attachments removed in EA but sent same attachments as sent to Catawba Indian Nation Chief Bill Harris (see above)

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 1, 2023

Chief Tom Jonathan
Tuscarora Nation
5226 Walmore Road
Lewiston, NY 14092

RE: Section 106 Review - HUD CDBG-MIT Program
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Ms. Andrea Gievers
NCORR - Environmental
ATTN: THPO Comments
P.O. Box 110465
Durham, NC 27709

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

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cc: Mr. Bryan Printup, THPO, 5226 Walmore Road, Lewiston, NY 14092; BPrintup@hetf.org

Section 106 ATTACHMENTS:

Attachments removed in EA but sent same attachments as sent to Catawba Indian Nation Chief Bill Harris (see above)

Gievers, Andrea

From: Gievers, Andrea
Sent: Wednesday, November 1, 2023 11:33 AM
To: bprintup@hetf.org
Subject: NCORR Princeville 53-Acre Site Redevelopment - Section 106 review request
Attachments: NCORR Princeville 53 Tuscarora Nation THPO Pkg 11.1.23.pdf

Dear Mr. Printup:

Please find attached the Section 106 review request for the proposed **Princeville 53-Acre Site Redevelopment** project located at a **53-acre site located along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project. NCORR respectfully submits for your review the attached documentation for the proposed project. If the APE encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days of receipt of this email indicating a desire to consult. If you have any concerns with potential impacts of the proposed project on historic properties, please note them in your response. Please respond within this timeframe, otherwise we will assume that the proposed project will have no effect to historic properties of religious or cultural significance. A hard copy of the attached Section 106 package has been sent to Chief Tom Jonathan. If you have any questions or require additional information regarding this request, please feel free to contact me at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you so much for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 1, 2023

Mr. Bryan Printup
Tribal Historic Preservation Office
5226 Walmore Road
Lewiston, NY 14092

Sent via email: BPrintup@hetf.org

RE: Section 106 Review - HUD CDBG-DR Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Printup:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD), is serving as the responsible entity for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. NCORR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation.

NCORR processes environmental reviews for proposed projects funded with HUD CDBG-MIT on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470f), and its implementing regulations, 36 CFR Part 800, this letter serves as notification of the proposed action. This letter also serves as an invitation to discussion as a consulting party in this review to help identify historic properties in the proposed project area that may have religious and cultural significance to your Nation, and if such properties exist, to help assess how the proposed project might affect them. If the proposed project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and institutional structures were damaged. Much of the Town's commercial and municipal services were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Therefore, funding for the proposed project will be provided in part by the HUD CDBG-MIT North Carolina Infrastructure Recovery Program for Hurricanes Matthew and Florence storm recovery activities in North Carolina.

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as 0.25-mile from the boundary of the Subject Property located at 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive (**Attachment 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID # 474714756400 which is approximately 29.96 acres and the eastern Parcel ID # 474724794700 which is approximately 23 acres, and the separate 1029 Lynch Drive, Parcel ID # 474725155200, is approximately 0.32 acres. There will also be work in the public rights-of-way for stormwater infrastructure, water and sanitary sewer connections, ingress/egress access points, and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" RCP along U.S. Highway 64 West (see *Site Plans* in **Attachment 1**).

Proposed Project Description: The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits

including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project site plans are included in **Attachment 1**.

We have completed an initial review of this project in compliance with Section 106 of the NHPA and its implementing regulations 36 CFR Part 800. Based on our research of the Subject Property in the National Register of Historic Places, North Carolina State Historic Preservation Office's (NC SHPO) HPOWEB, and site review, no publicly recorded historic properties which are locally designated or listed in or eligible for inclusion in the State or National Register of Historic Places are located on or adjacent to the Subject Property. According to HPOWEB, there is one SLDOE site, Danielhurst federal house (ED0864), located within a 0.5-mile radius of the Subject Property. The results are included in **Attachment 2**. Based on Terracon's search at the NC Office of State Archeology, there are no mapped archaeological sites on the Subject Property but 27 sites mapped within a 0.5-mile radius (see *Cultural Resources Desktop Review* in **Attachment 3**). A cemetery is located on a southwestern adjacent parcel, and NCDOT relocated graves to that parcel from the Worsley/Knight Cemetery circa 1994 to enable highway construction. No project activities are proposed at the cemetery parcel.

Currently, the 53-acre portion of the Subject Property is undeveloped with dense overgrown vegetation across most of the site. Based on a review of the historical aerials for the 53-acre site, the eastern side (near South Shiloh Farm Road) had several small buildings that were likely former homesteads or agricultural buildings and the other portions of the 53-acre site appear to be undeveloped and are agricultural fields or woodland (1948 – 1994); undeveloped field or woodland (1998); undeveloped woodland (2008); and undeveloped and appears to be recently cleared (2017 – 2021). Currently, the 1029 Lynch Drive parcel is wooded with a clearing in the middle. Based on a review of the historical aerials, the 1029 Lynch Drive parcel was densely wooded (1948 – 1977), Lynch Drive and King Avenue are visible in 1982, the site contains a residential structure along with the rest of the Southern Terrace neighborhood (1994 – 1998), and the structure is not visible due to forest covering (2006 – 2020). The residential trailer onsite reportedly burned to the ground in 2019.

The proposed project information is being sent to the NC SHPO and the Catawba Indian Nation in accordance with Section 106 of the NHPA and its implementing regulations, 36 CFR Part 800. The proposed development will include typical clearing and grading on the Subject Property during construction.

With this letter, NCORR respectfully submits for your review the attached documentation for the proposed project described herein. If the APE encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days of receipt of this letter indicating a desire to consult. If you have any concerns with potential impacts of the proposed project on historic properties, please note them in your response along with your preferred principal representative's point of contact. Please respond within this timeframe, otherwise we will assume that the proposed project will have no effect to historic properties of religious or cultural significance. Please respond via email at Andrea.L.Gievers@Rebuild.NC.gov or in writing to the address listed below.

Ms. Andrea Gievers
NCORR - Environmental
ATTN: THPO Comments
P.O. Box 110465
Durham, NC 27709

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Proposed Project Enclosures:
Attachment 1: Proposed Project Location Maps and Site Plans
Attachment 2: NRHP and NC HPOWEB Maps
Attachment 3: Previous SHPO Response and Consultation by Terracon for 53-acre Site Only (Cultural Resources Records Review)

cc: Chief Tom Jonathan, Tuscarora Nation, 5226 Walmore Road, Lewiston, NY 14092

Section 106 ATTACHMENTS:

Attachments removed in EA but sent same attachments as sent to Catawba Indian Nation Chief Bill Harris (see above)

FedEx Express Package US Airbill

FedEx Tracking Number 8171 2093 9842

Form ID No. 0200 **Sender's Copy**

1 From *Please print and press hard.*

Date 11/1/23 Sender's FedEx Account Number 8950-9899-0

Sender's Name Andrea Gievers Phone (845) 682-1700

Company NCORR

Address 123 Kings Hill Rd Dept./Floor/Suite/Room

City Walden State NY ZIP 12586

2 Your Internal Billing Reference First 24 characters will appear on invoice. Princeville 53

3 To Recipient's Name Chief Bill Harris Phone ( )

Company Catawba Indian Nation

Address 996 Avenue of the Nations Dept./Floor/Suite/Room

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Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Rock Hill State SC ZIP 29730

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5 Packaging * Declared value limit $500.

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☐ Direct Signature — Someone at recipient's address may sign for delivery.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

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Sender's Name Andrea Gievers Phone (845) 682-1700

Company NCORR

Address 123 Kings Hill Rd Dept./Floor/Suite/Room

City Walden State NY ZIP 12586

2 Your Internal Billing Reference First 24 characters will appear on invoice. Princeville 53

3 To Recipient's Name Dr. Wenonah G. Haire Phone ( )

Company Catawba Indian Nation, THPO

Address 1536 Tom Steven Rd Dept./Floor/Suite/Room

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Address

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City Rock Hill State SC ZIP 29730

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☐ Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☒ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

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Does this shipment contain dangerous goods? One box must be checked.

☐ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

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Date 12/8/23 Sender's FedEx Account Number 8950-9899-0

Sender's Name Andrea Gievers Phone (845) 682-1700

Company NCORR

Address 123 Kings Hill Rd Dept./Floor/Suite/Room

City Walden State NY ZIP 12586

2 Your Internal Billing Reference First 24 characters will appear on invoice. Princeville 53

3 To Recipient's Name Chief Tom Jonathan Phone ( )

Company Tuscarora Nation

Address 5226 Walmore Rd Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Lewiston State NY ZIP 14092

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Easy new Peel-and-Stick airbill. No pouch needed.
Apply airbill directly to your package. See directions on back.

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☒ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

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☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?
One box must be checked.

☐ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

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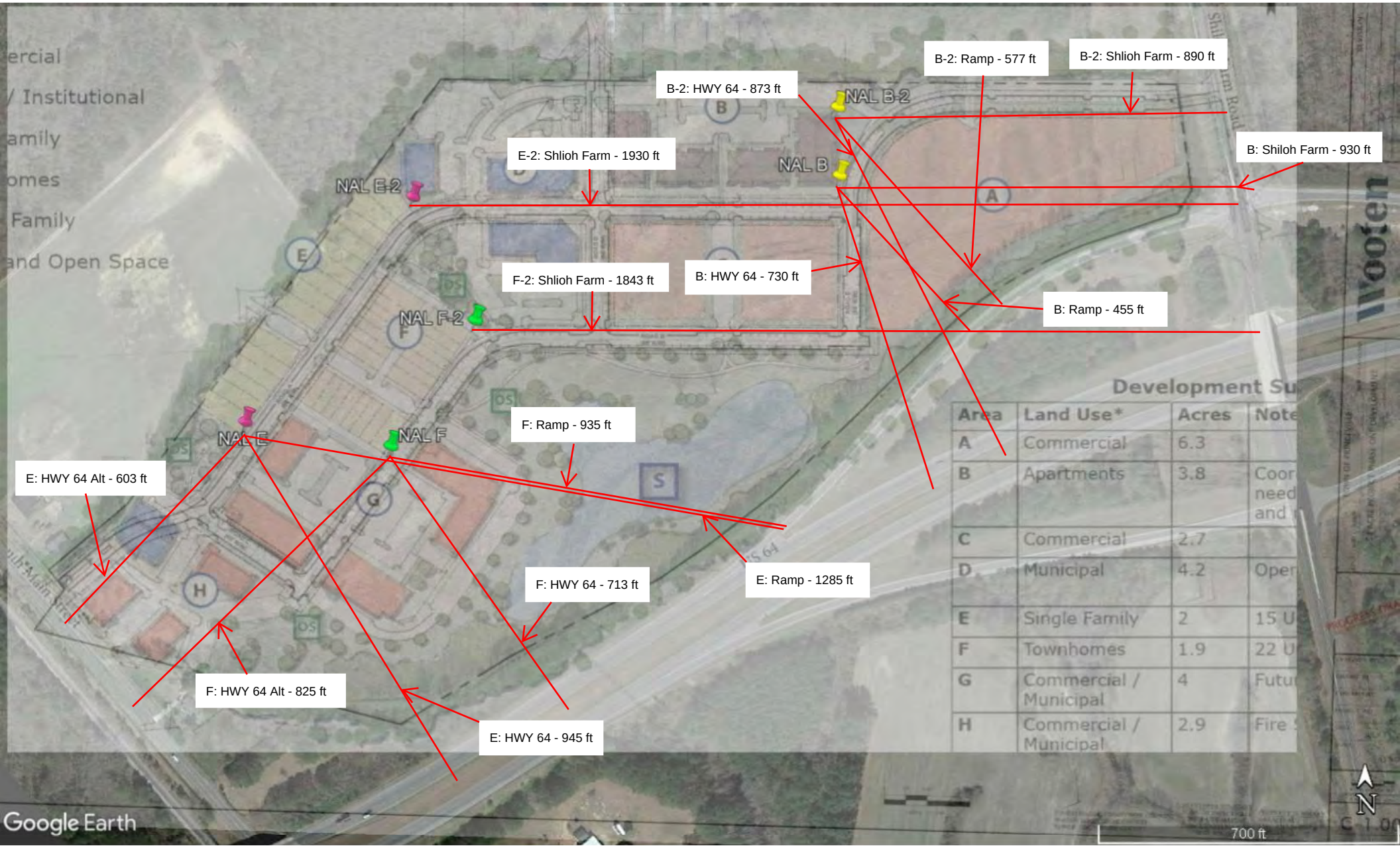
ATTACHMENT 13:

Noise Abatement and Control

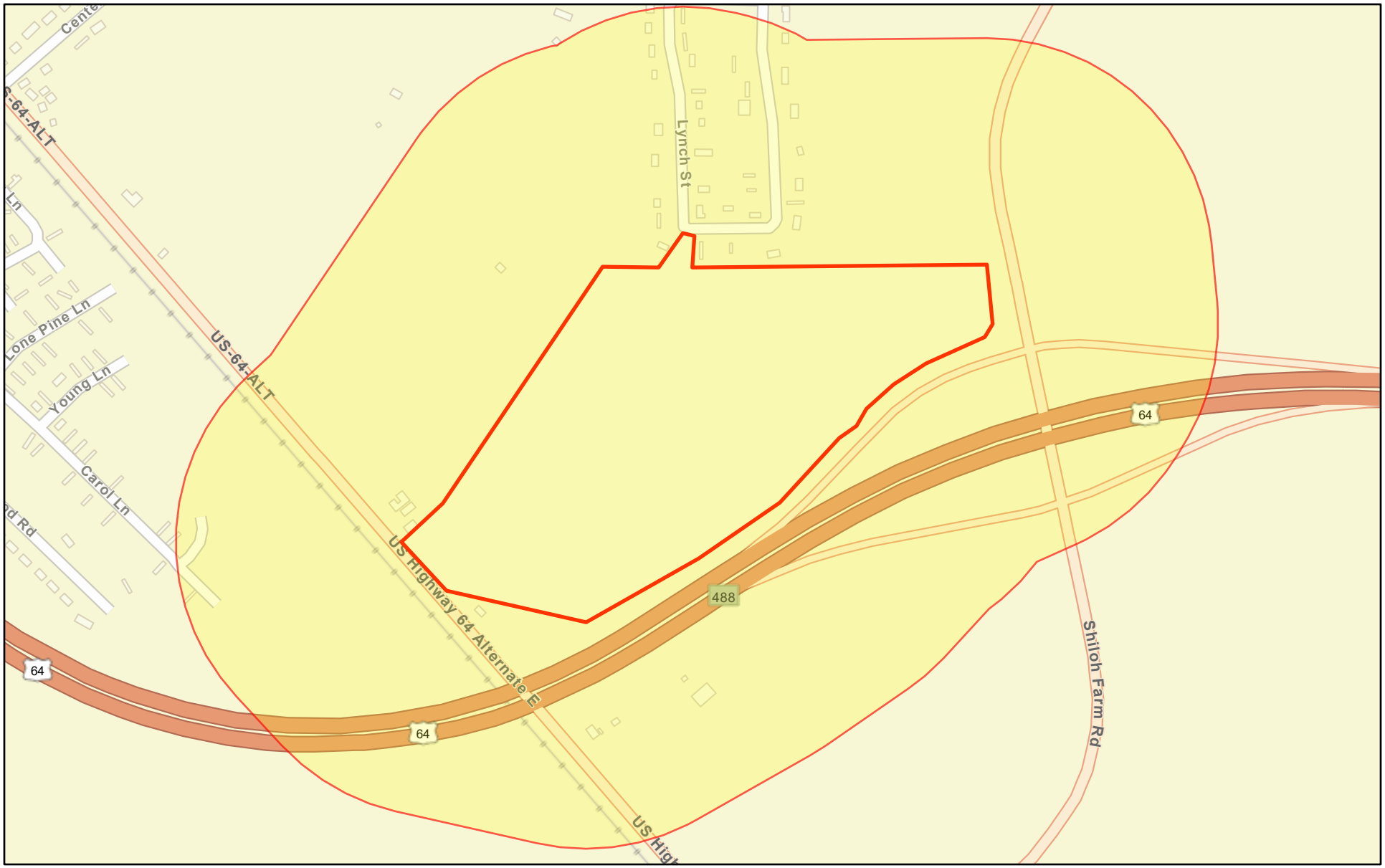
HUD Noise Assessment

Noise Assessment Locations (NALs) Map, Road Maps Showing 1,000-foot Buffer, Major Roads with AADT Data Available Map, NC DOT Traffic Projections, NC DOT Truck Percentages, NC DOT Speed Limits Map, 2015 Traffic Forecast for FS-1504A, Railroads Maps Showing 3,000-foot Buffer, U.S. DOT Railroad Identifier Map, U.S. DOT Crossing Inventory Form, Airports Map Showing 15-mile Buffer, FAA 5010 Airport Master Record, Airport Noise Worksheet, and DNL Calculations Current and Future with 12-year Projections

Noise Assessment Locations (NALs) Map



Princeville 53-Acre Site Redevelopment - Roads with 1,000-foot Buffer



November 3, 2023

Project Buffer

Princeville 53-Acre Site Redevelopment

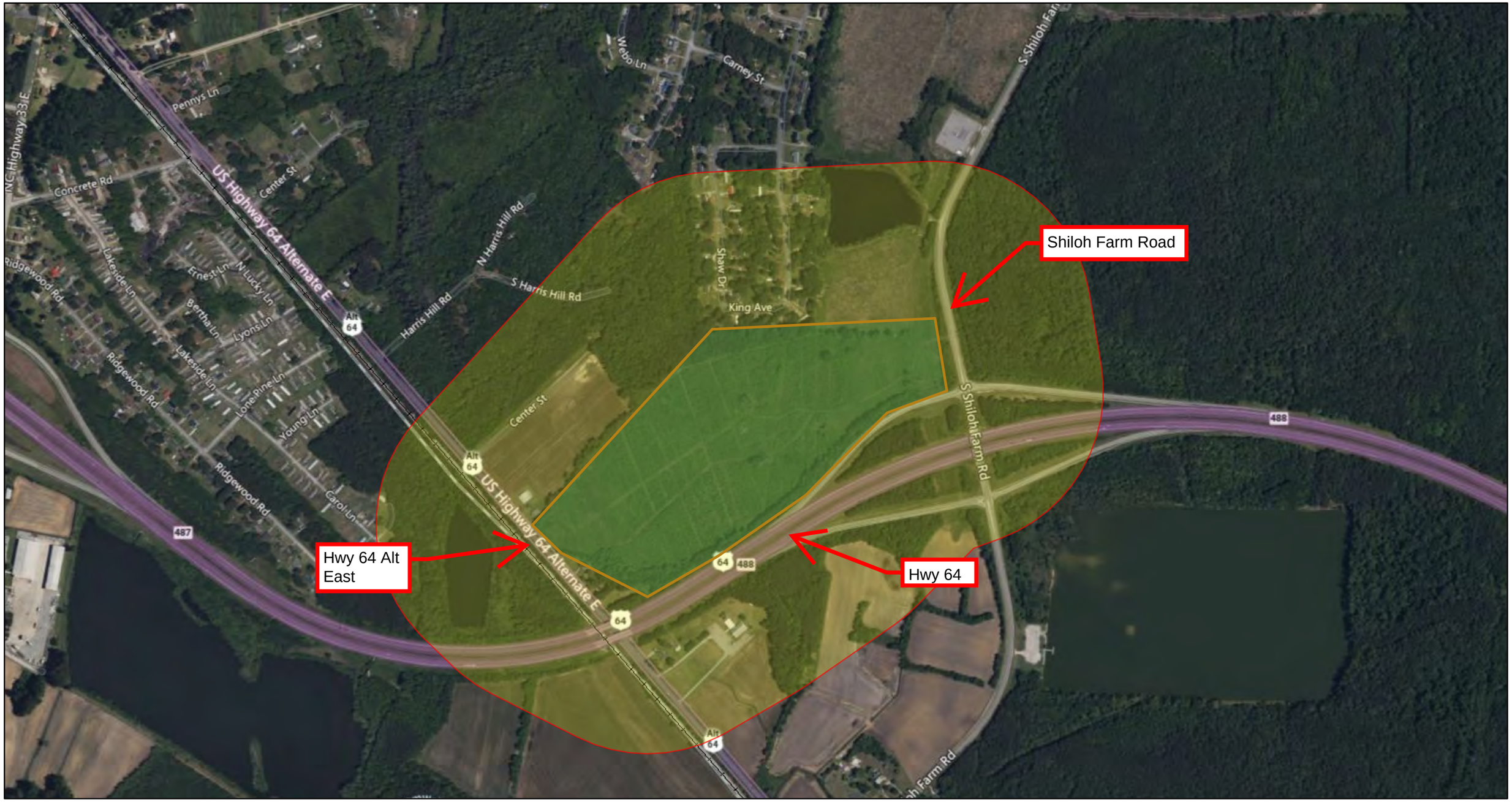
1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

National Park Service, peter_bonsall@nps.gov, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri,

Princeville 53-Acre Site Redevelopment - Roads with 1,000-ft Buffer



July 11, 2023

Project Buffer

Project 1

Railroads

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

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Princeville 53-Acre Site Redevelopment - NCDOT AADT Map

10/26/2023, 10:45:01 AM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,

Princeville 53-Acre Site Redevelopment - shapefile

NCDOT_AADT_Traffic_Segmentation - NCDOT_AADT_Stations

- US Routes
- NC Hwys
- Secondary Routes
- Ramps

NCDOT_AADT_Traffic_Segmentation - NCDOT_AADT_Traffic_Segments_Secondary_Non-System

- 10 - 499
- 500 - 1,999
- 2,000 - 4,999

NCDOT_AADT_Traffic_Segmentation - NCDOT_AADT_Traffic_Segments_Primaries

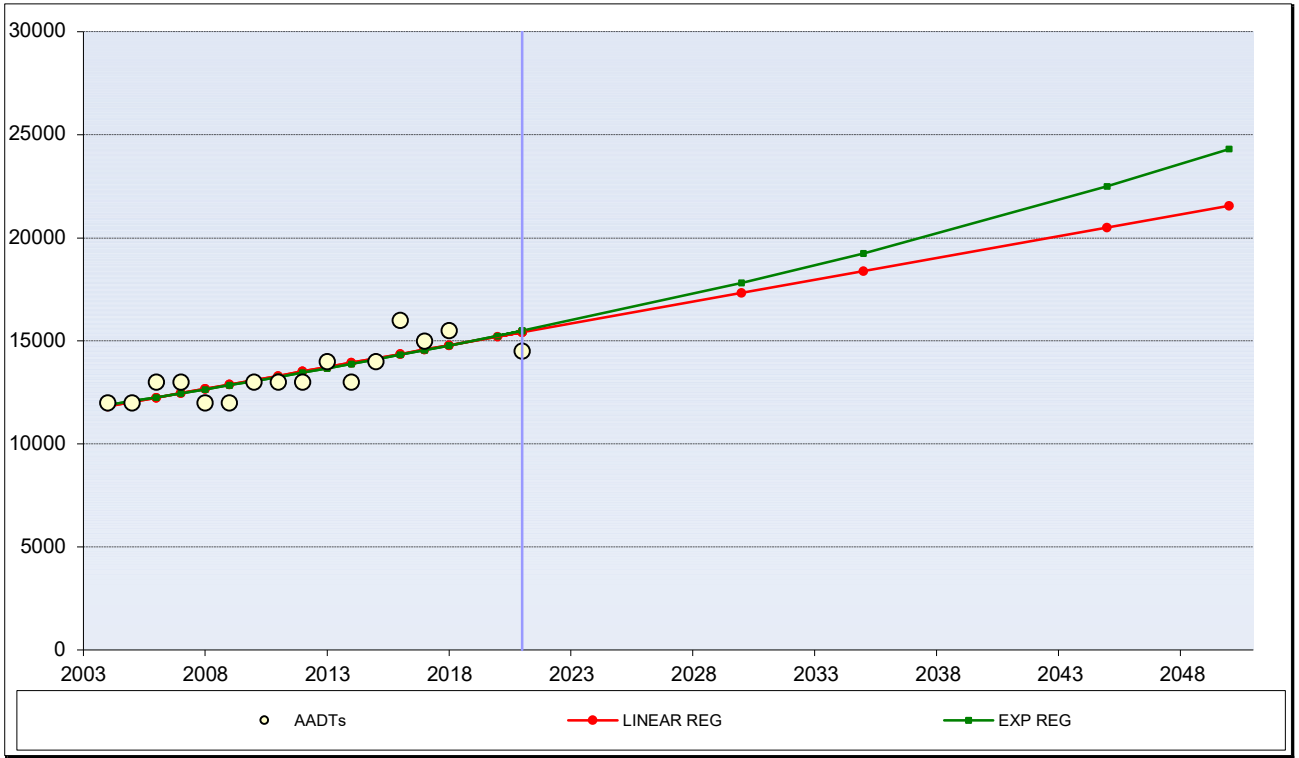
- 500 - 1,999
- 2,000 - 4,999
- 10,000 - 19,999

Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA | NCDOT Traffic Survey Group staff collected, analyzed, processed and reported this

U.S. Highway 64 West

AADT TREND ANALYSIS

#1 -- US 64 E OF NC 33



HISTORIC DATA		STATISTICAL RESULTS	
Year	AADT	LINEAR REG:	211.7
2004	12000	LINEAR %:	1.58%
2005	12000	EXPONENTIAL REG:	1.57%
2006	13000		
2007	13000		
2008	12000	R-SQUARED	
2009	12000	LINEAR:	0.6855
2010	13000	EXPONENTIAL:	0.6981
2011	13000		
2012	13000		
2013	14000	NUMBER OF DATA POINTS:	
2014	13000		16
2015	14000		
2016	16000		
2017	15000		
2018	15500		
2021	14500		

SHOW HISTORIC DATA:	SHOW FUTURE DATA:	SHOW STATION #:	
☑ LINEAR REGRESSION	☑ LINEAR REGRESSION	1- US 64 E OF NC 33	
☑ EXPONENTIAL REGRESSION	☑ EXPONENTIAL REGRESSION	FUT YRS:	2021
		#1	2020
☑ HISTORIC DATA		#2	2030
		#3	2035
		#4	2045
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION / TRANSP. PLANNING BRANCH		#5	2050

FUTURE PROJECTIONS:

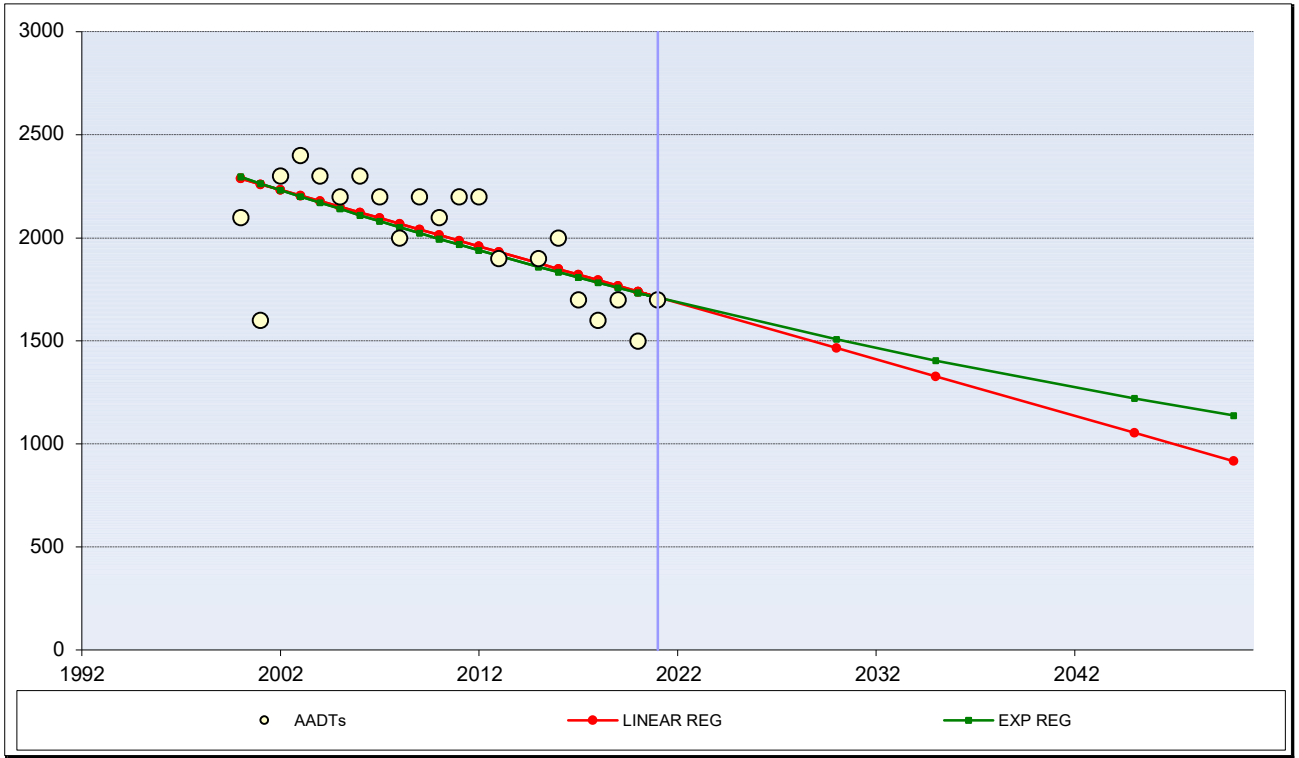
Linear Reg	Exp Reg			
15422	15484			
15211	15245			
17328	17812			
18386	19253			
20503	22494			
21562	24314			

Title - Replace with text
Title - Replace with text or delete

U.S. Highway 64 Alternate East

AADT TREND ANALYSIS

#1 -- US 64 ALT N OF US 64



HISTORIC DATA		STATISTICAL RESULTS	
Year	AADT	LINEAR REG:	-27.4
2000	2100	LINEAR %:	-1.37%
2001	1600	EXPONENTIAL REG:	-1.39%
2002	2300		
2003	2400		
2004	2300	R-SQUARED	
2005	2200	LINEAR:	0.0427
2006	2300	EXPONENTIAL:	0.0272
2007	2200		
2008	2000		
2009	2200	NUMBER OF DATA POINTS:	
2010	2100		21
2011	2200		
2012	2200		
2013	1900		
2015	1900		
2016	2000		
2017	1700		
2018	1600		
2019	1700		
2020	1500		
2021	1700		

SHOW HISTORIC DATA:	SHOW FUTURE DATA:	SHOW STATION #:	
☑ LINEAR REGRESSION	☑ LINEAR REGRESSION	1- US 64 ALT N OF US 64	
☑ EXPONENTIAL REGRESSION	☑ EXPONENTIAL REGRESSION	FUT YRS:	2021
		#1	2020
☑ HISTORIC DATA		#2	2030
		#3	2035
		#4	2045
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION / TRANSP. PLANNING BRANCH		#5	2050

FUTURE PROJECTIONS:

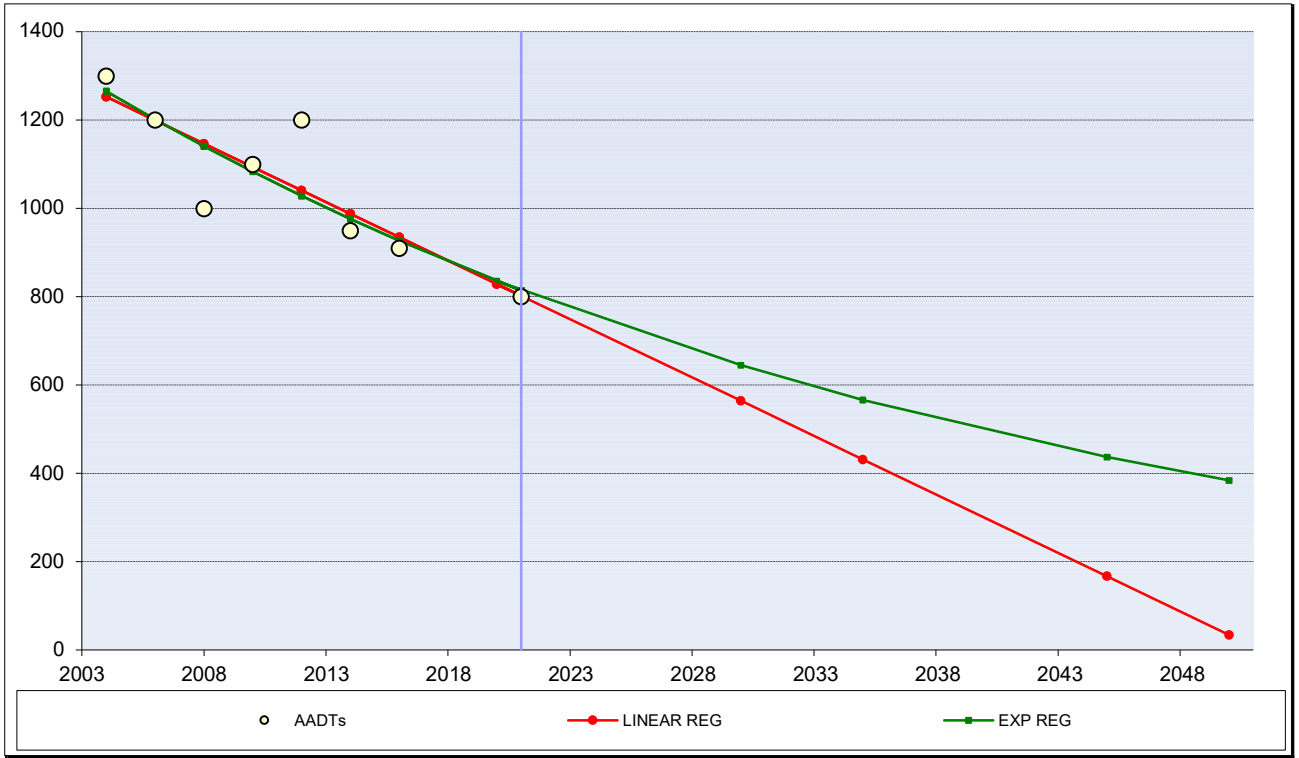
Linear Reg	Exp Reg			
1712	1710			
1740	1734			
1465	1507			
1328	1405			
1054	1221			
917	1138			

Title - Replace with text
Title - Replace with text or delete

South Shiloh Farm Road

AADT TREND ANALYSIS

#1 -- SR 1523 S OF SR 1581



HISTORIC DATA		STATISTICAL RESULTS	
Year	AADT	LINEAR REG:	-26.5
2004	1300	LINEAR %:	-2.59%
2006	1200	EXPONENTIAL REG:	-2.56%
2008	1000		
2010	1100		
2012	1200	R-SQUARED	
2014	950	LINEAR:	0.7492
2016	910	EXPONENTIAL:	0.7709
2021	800		
		NUMBER OF DATA POINTS:	
			8

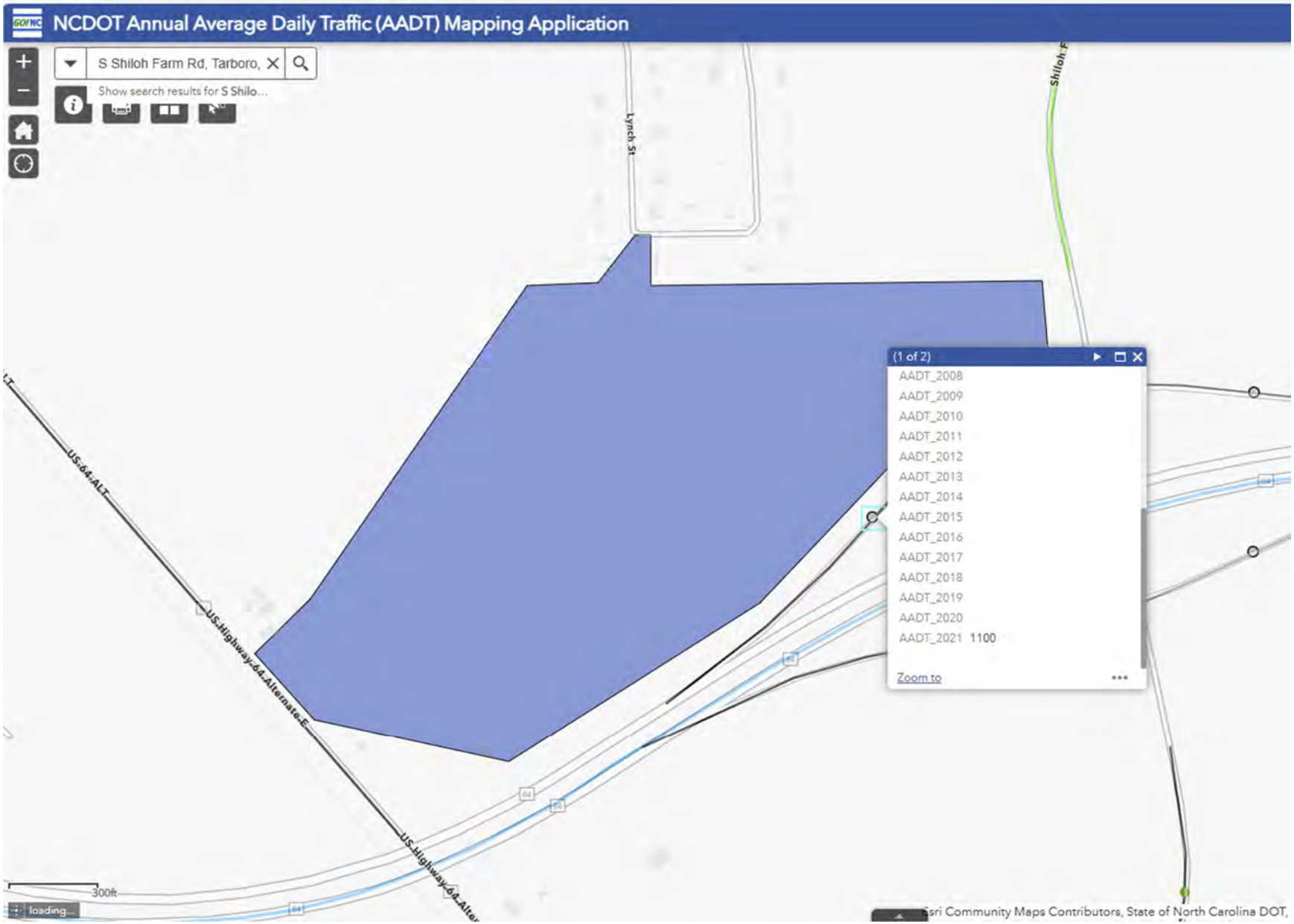
SHOW HISTORIC DATA:	SHOW FUTURE DATA:	SHOW STATION #:	
☑ LINEAR REGRESSION	☑ LINEAR REGRESSION	1- SR 1523 S OF SR 1581	
☑ EXPONENTIAL REGRESSION	☑ EXPONENTIAL REGRESSION	FUT YRS:	2021
		#1	2020
☑ HISTORIC DATA		#2	2030
		#3	2035
		#4	2045
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION / TRANSP. PLANNING BRANCH		#5	2050

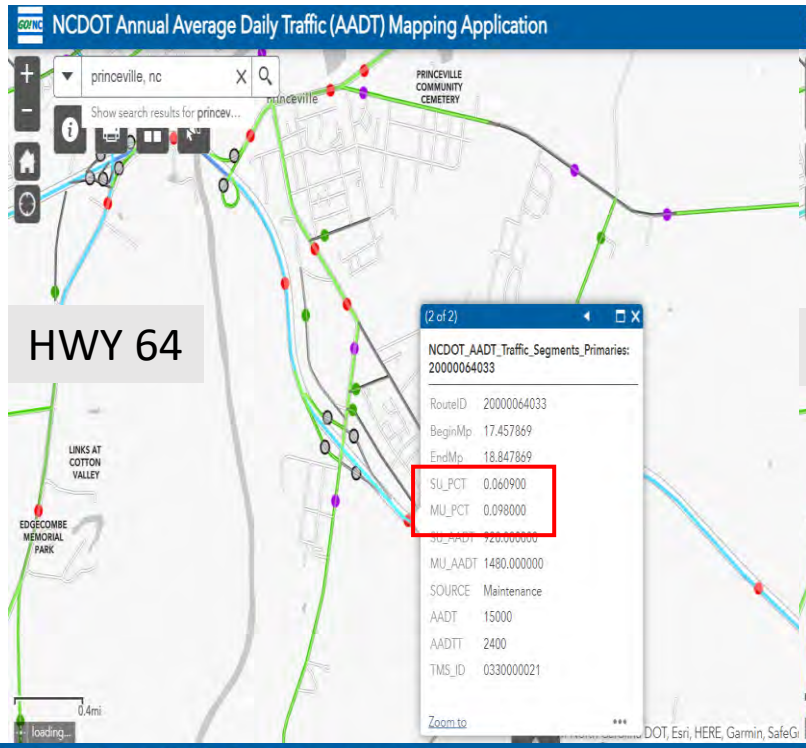
FUTURE PROJECTIONS:

Linear Reg	Exp Reg			
802	814			
829	836			
564	645			
432	566			
167	437			
34	384			

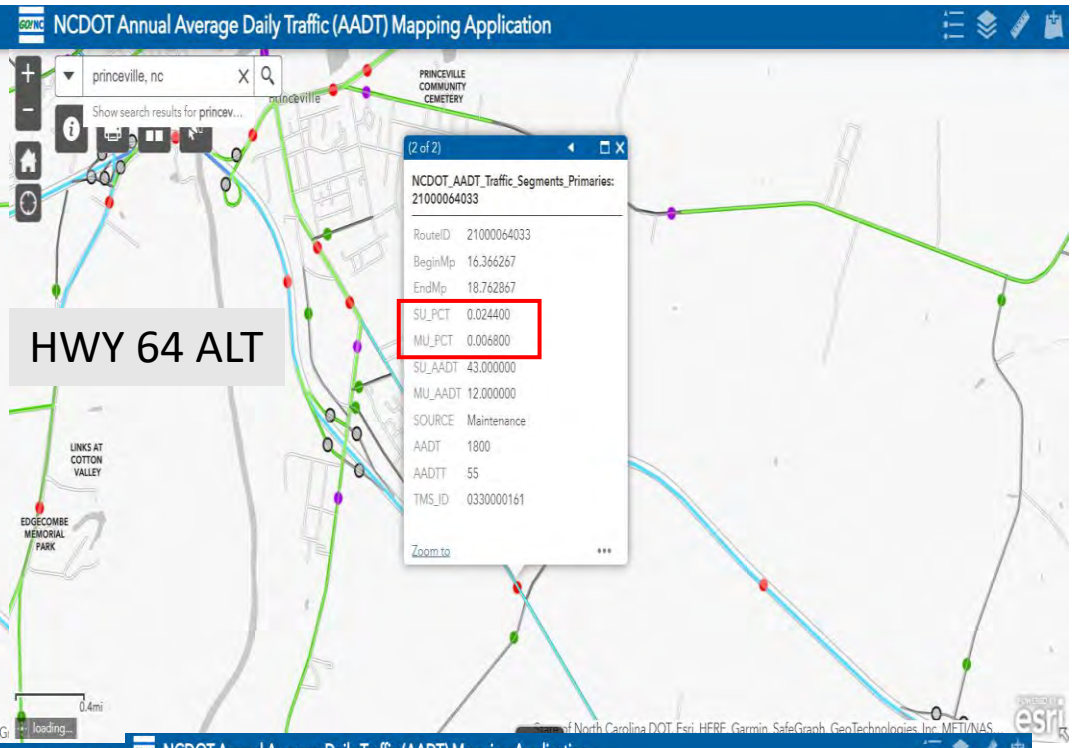
Title - Replace with text
Title - Replace with text or delete

Princeville 53-acre Site Redevelopment – NCDOT AADT US 64 Ramp

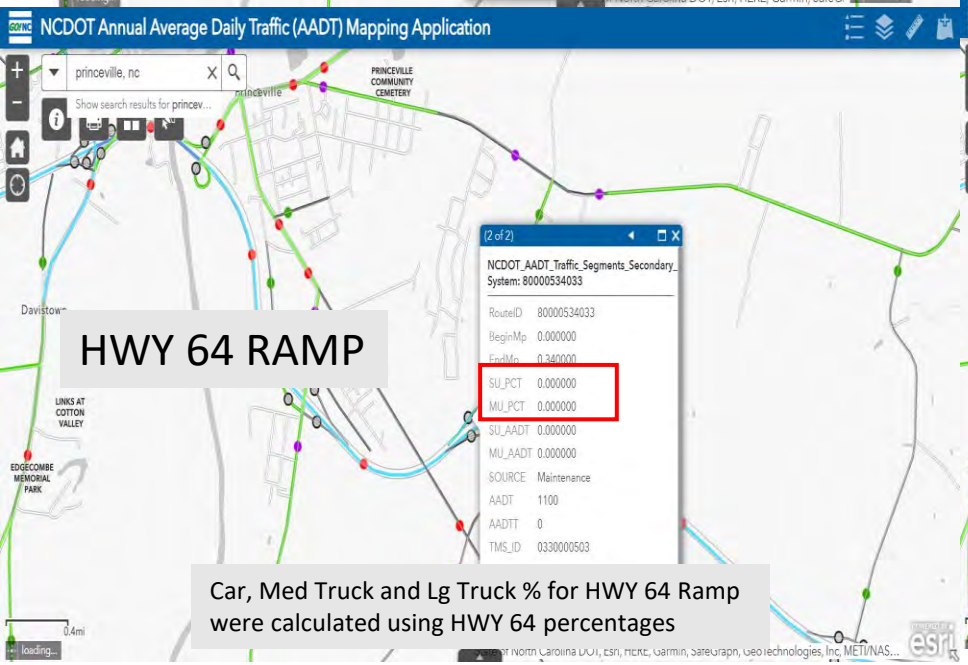




HWY 64

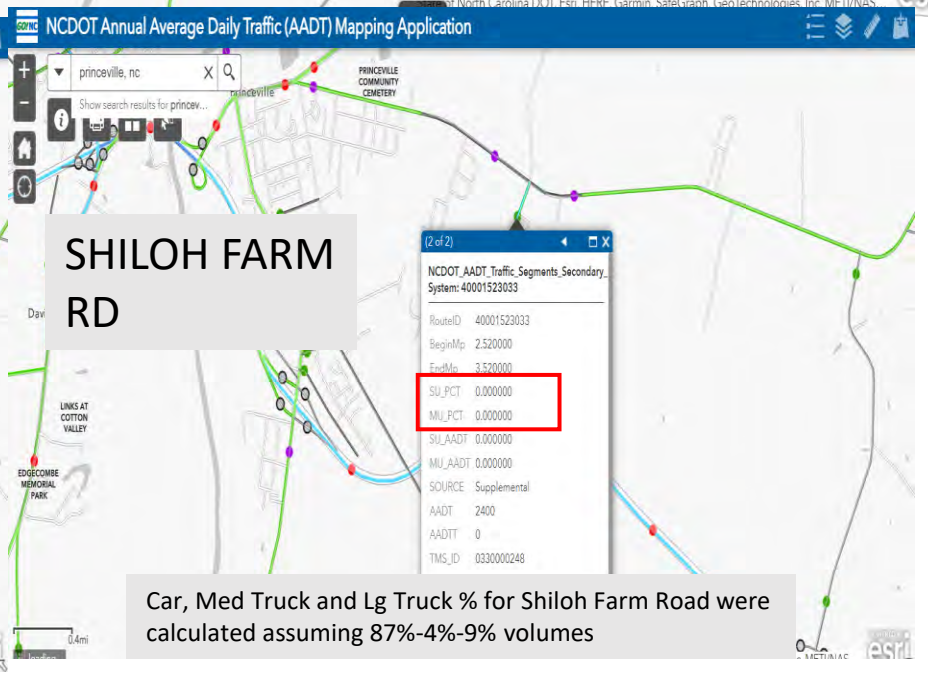


HWY 64 ALT



HWY 64 RAMP

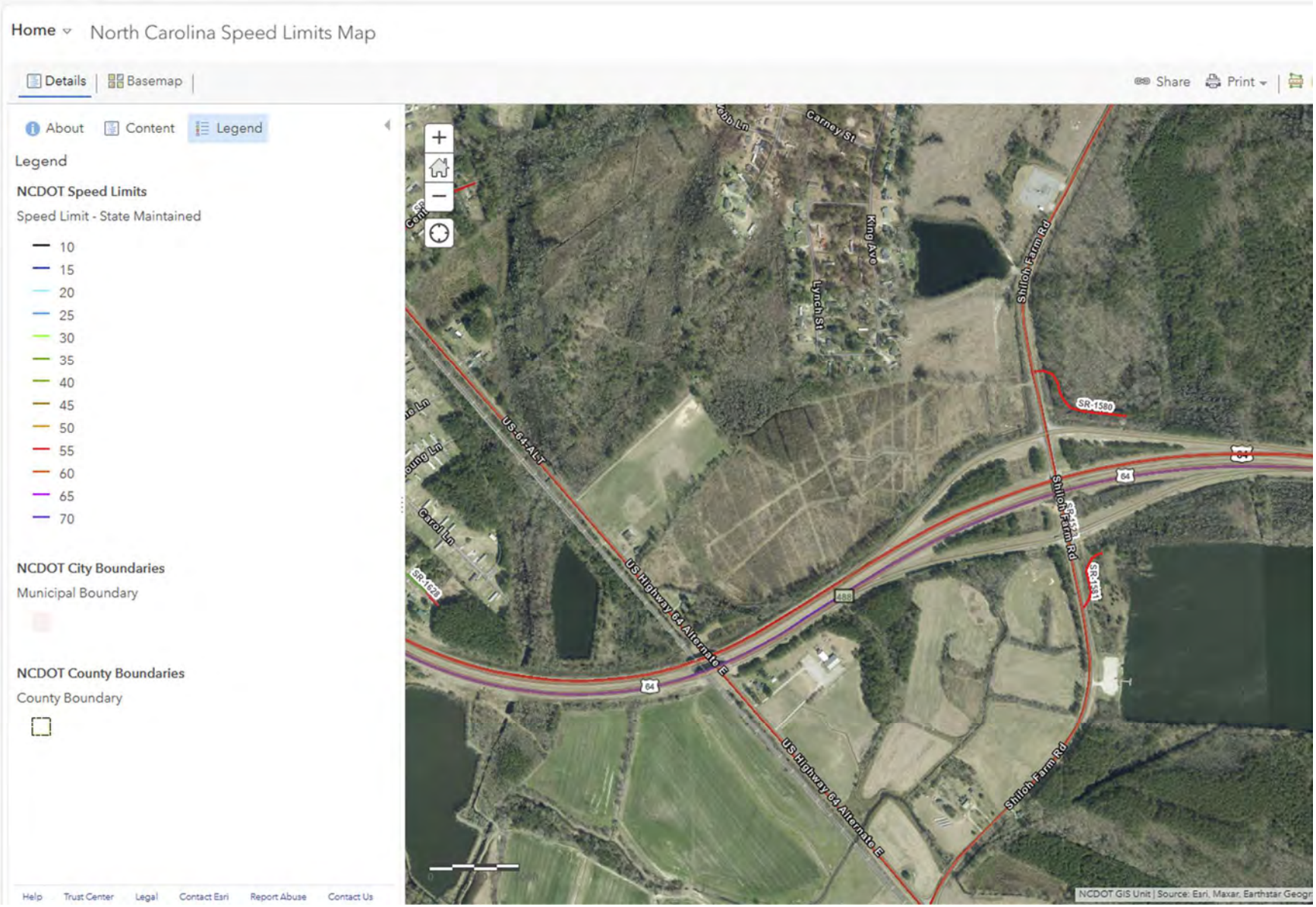
Car, Med Truck and Lg Truck % for HWY 64 Ramp were calculated using HWY 64 percentages



SHILOH FARM RD

Car, Med Truck and Lg Truck % for Shiloh Farm Road were calculated assuming 87%-4%-9% volumes

Princeville 53-acre Site Redevelopment – NC DOT Speed Limit Map



HWY 64 West	ADT	Cars	Med Trucks (.0609)	Lg Trucks (.0980)
Current Year	14500	12196	883	1421
Year 2035	18386	15464	1120	1802

S Shiloh Farm Road	ADT	Cars (87%)	Med Trucks (4%)	Lg Trucks (9%)
Current Year	800	696	32	72
Year 2035	432	376	17	39

HWY 64 ALT	ADT	Cars	Med Trucks (.0244)	Lg Trucks (.0068)
Current Year	1700	1647	41	12
Year 2035	1328	1287	32	9

HWY 64 Ramp	ADT	Cars	Med Trucks (.0609)	Lg Trucks (.0980)
Current Year/2035	1100	925	67	108

PAT McCRORY
NICHOLAS J. TENNYSON

November 30, 2015

MEMORANDUM TO: Lynnise Hawes
Program Development Branch

FROM: Jamie V. Moore
Transportation Planning Branch

SUBJECT: Traffic Forecast for FS-1504A
Edgecombe, Franklin, Martin, Nash and Wake Counties
Upgrade US 64 from SR 1003 (Rolesville Road) in Knightdale to US 17 in Williamston to Interstate Standards

Please find attached the 2015/2040 traffic forecast for the above mentioned project. Feasibility Study FS-1504 is defined as the upgrading of US 64, from SR 1003 (Rolesville Road) to US 17, to interstate standards. This is the first forecast completed for this project. This project lies within the Capital Area Metropolitan Planning Organization Area (MPO), Rocky Mount Urban Area MPO, Upper Coastal Plain Rural Planning Organization Area (RPO), Kerr Tar RPO, and the Mid-East RPO.

Various planners from the Transportation Planning Branch, each MPO and RPO area, each county, city/town, and division were contacted. Information on growth and area development was received from these sources.

The following scenarios are provided:

- 2015 Base Year No Build
- 2040 Future Year Build

Certain Assumptions were made during the development of this forecast:

Fiscal Constraint:
Within an MPO, the future year forecasts assume construction of projects as listed within the MPO's Metropolitan Transportation Plan (MTP). This forecast is consistent with the Rocky Mount Urban Area MPO's current 2040 MTP, adopted May 20, 2013, and also the Capital Area MPO's current 2040 MTP, adopted April 10, 2013. For areas falling outside an MPO, forecasts are fiscally constrained to the State TIP. This means that in the future year, any project which has some construction money scheduled in the STIP is considered to be constructed by the future year. This forecast is also consistent with the current STIP.

Development Activity:
Information was collected from various planners regarding development within the project area. The largest development is the Wendell Falls Development located on SR 2502 (Wendell Falls

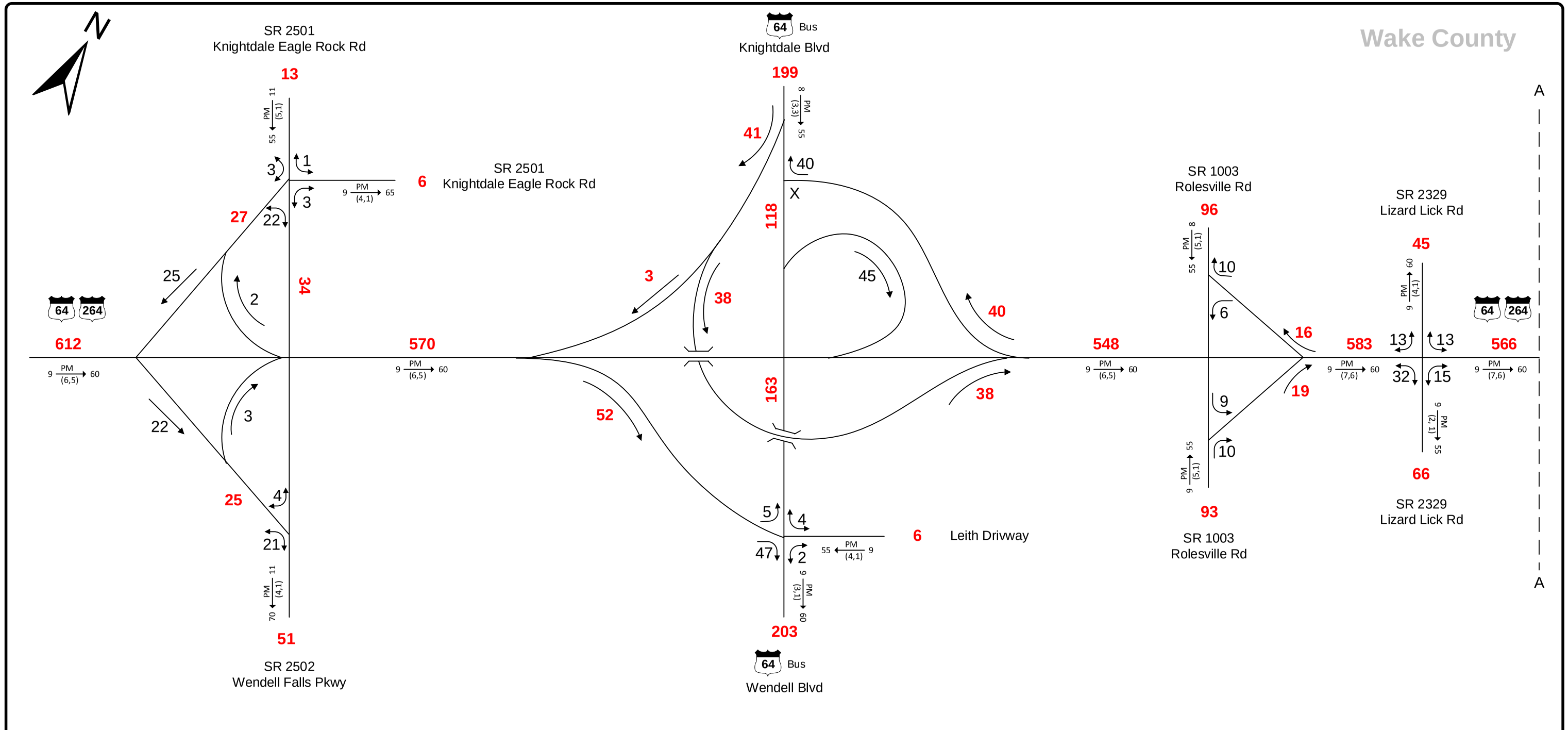
Parkway) south of US 64. The Traffic Impact Analysis, completed in 2006, and the updated trip generation, completed in 2008, was used as a tool in determining generated traffic for the future year. Other developments are described in the full traffic forecast report.

Methodology:
The Base Year No Build was developed primarily based upon traffic counts taken for this forecast. Future Year Build traffic volumes were calculated by applying the selected growth rates to the Base Year No Build volumes using a linear growth formula. Additional traffic volumes were added to SR 2502 (Wendell Falls Parkway) to take into account the build-out of the Wendell Falls Development.

Interpolation:
To determine any intermediate years, straight-line interpolation may be used. AADT volumes may be extrapolated for up to two years immediately following 2040. If it is determined that any of these assumptions have become inconsistent with the project and surrounding area activity, please request updated projections at this location.

If you have any questions, or I can be of any further assistance on this project, please do not hesitate to contact me at 919-707-0937, email: jvmoore@ncdot.gov.

cc : FILE (Wake/Franklin/Nash/Edgecombe/Martin, Project FS-1504A)
cc: (*via e-mail as PDF Attachments*):
Brian Wert, PE, Transportation Planning Branch
Scott Walston, PE, Transportation Planning Branch
Behshad Norowzi, Transportation Planning Branch
James Dunlop, PE, Congestion Management Section
Doumit Y. Ishak, Congestion Management Section
Clark S. Morrison, Ph.D., PE, Pavement Management Unit
Karen Roberson, Transportation Planning Branch
Glenn W. Mumford, PE, Roadway Design Unit
Gretchen Byrum, PE, Division of Highways – Division 1
Jimmy Eatmon, PE, Division of Highways – Division 4
David Keilson, PE, Division of Highways – Division 5
Chris Lukasina, Capital Area MPO
Bob League, Rocky Mount Urban Area MPO
James Salmons, PLS, Upper Coastal Plain RPO
Ann Stroobant, Kerr Tar RPO
Bryant Buck, Mid-East RPO



2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

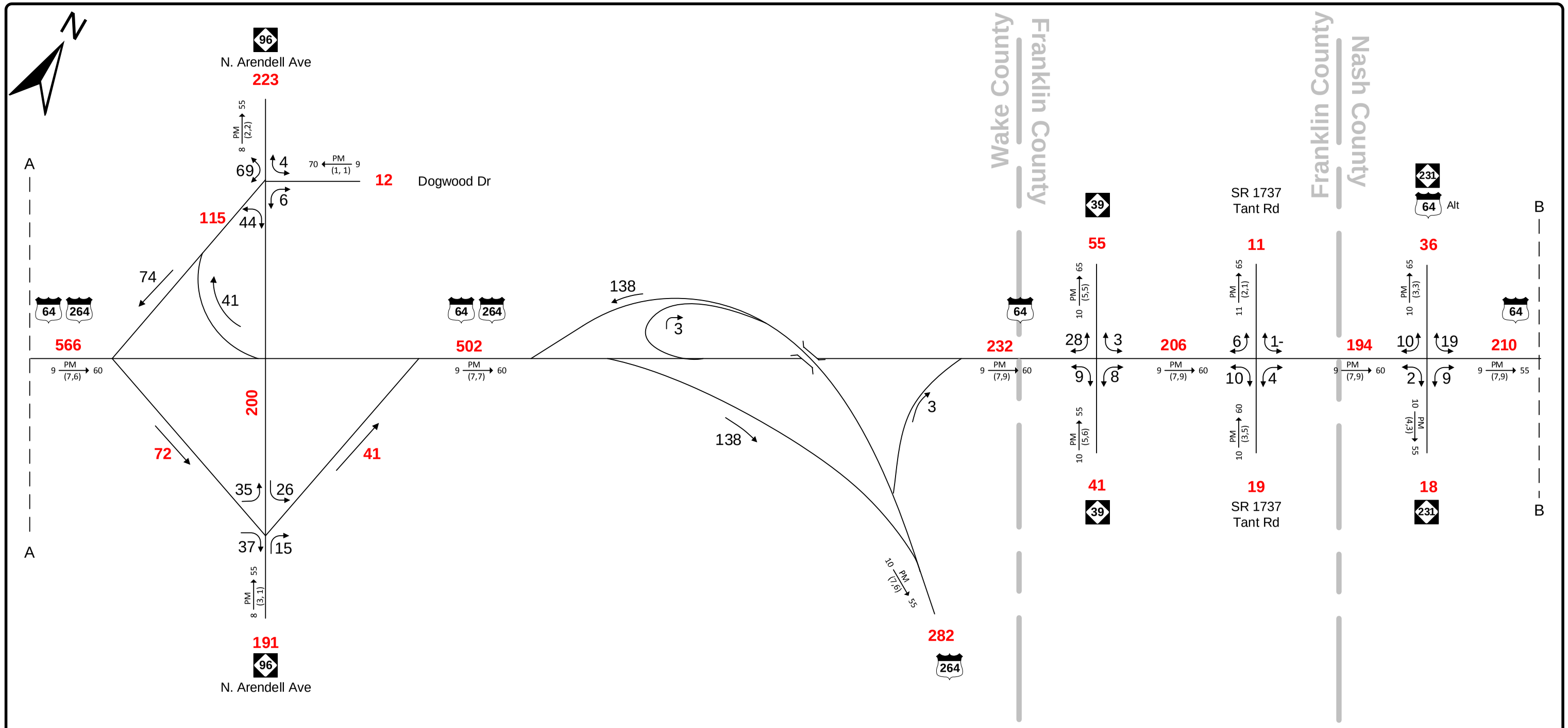
SHEET 1 OF 12

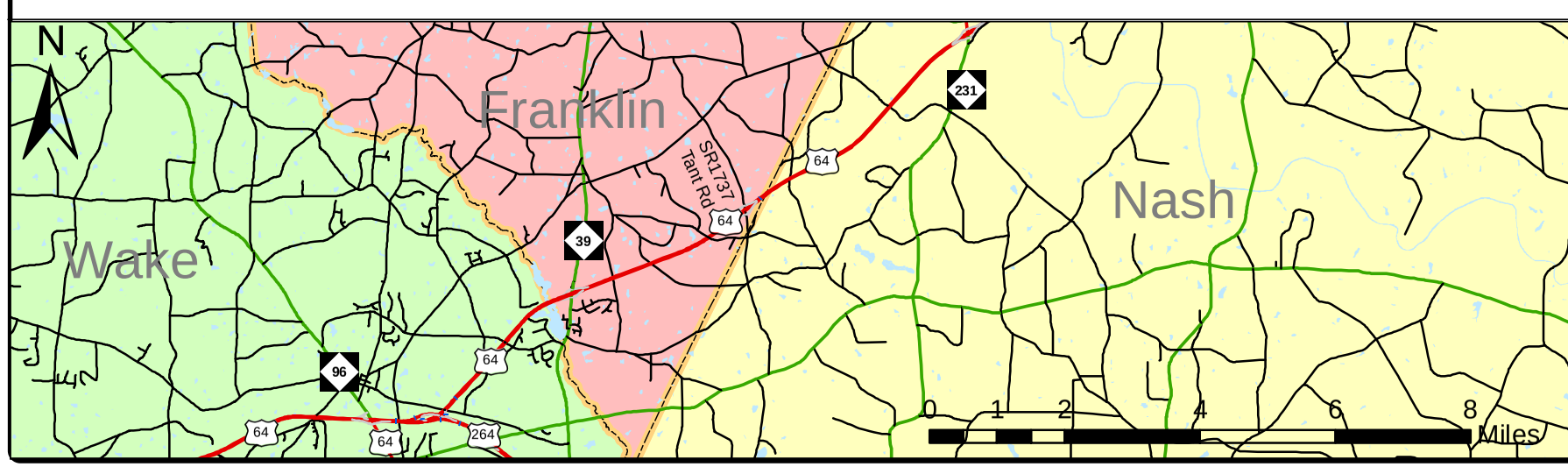
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
x	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

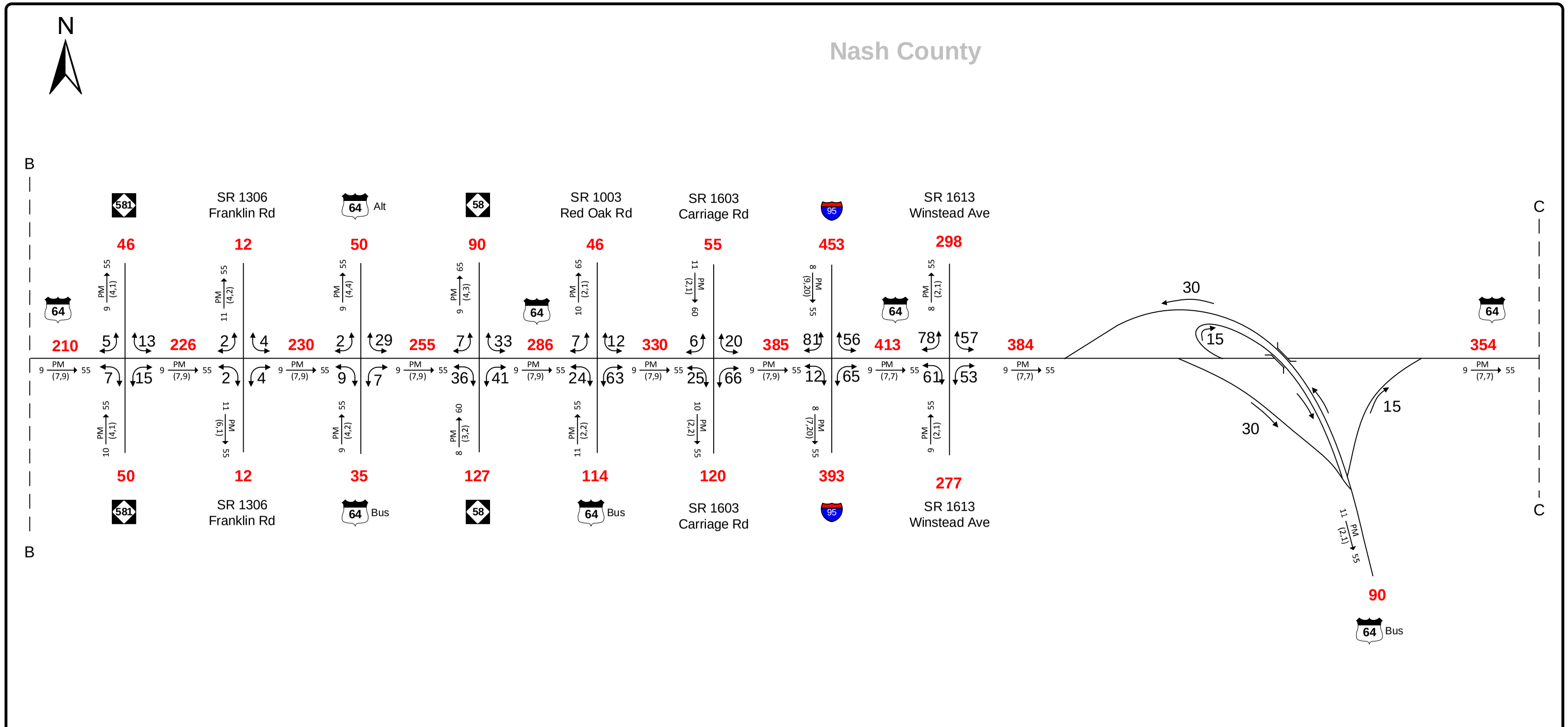
SHEET 2 OF 12

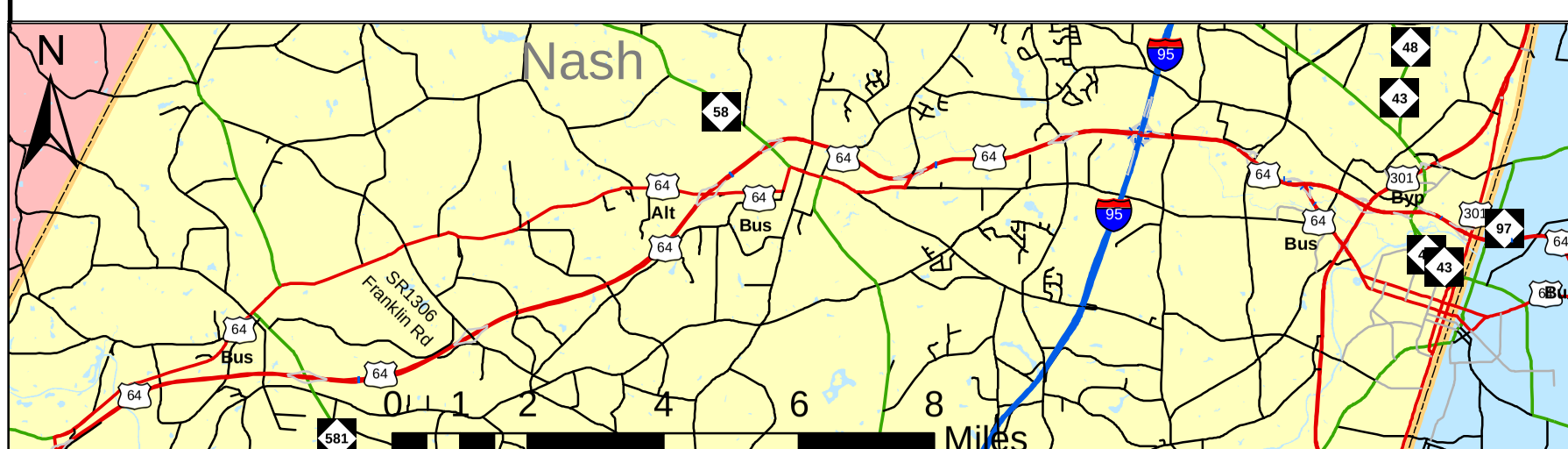
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

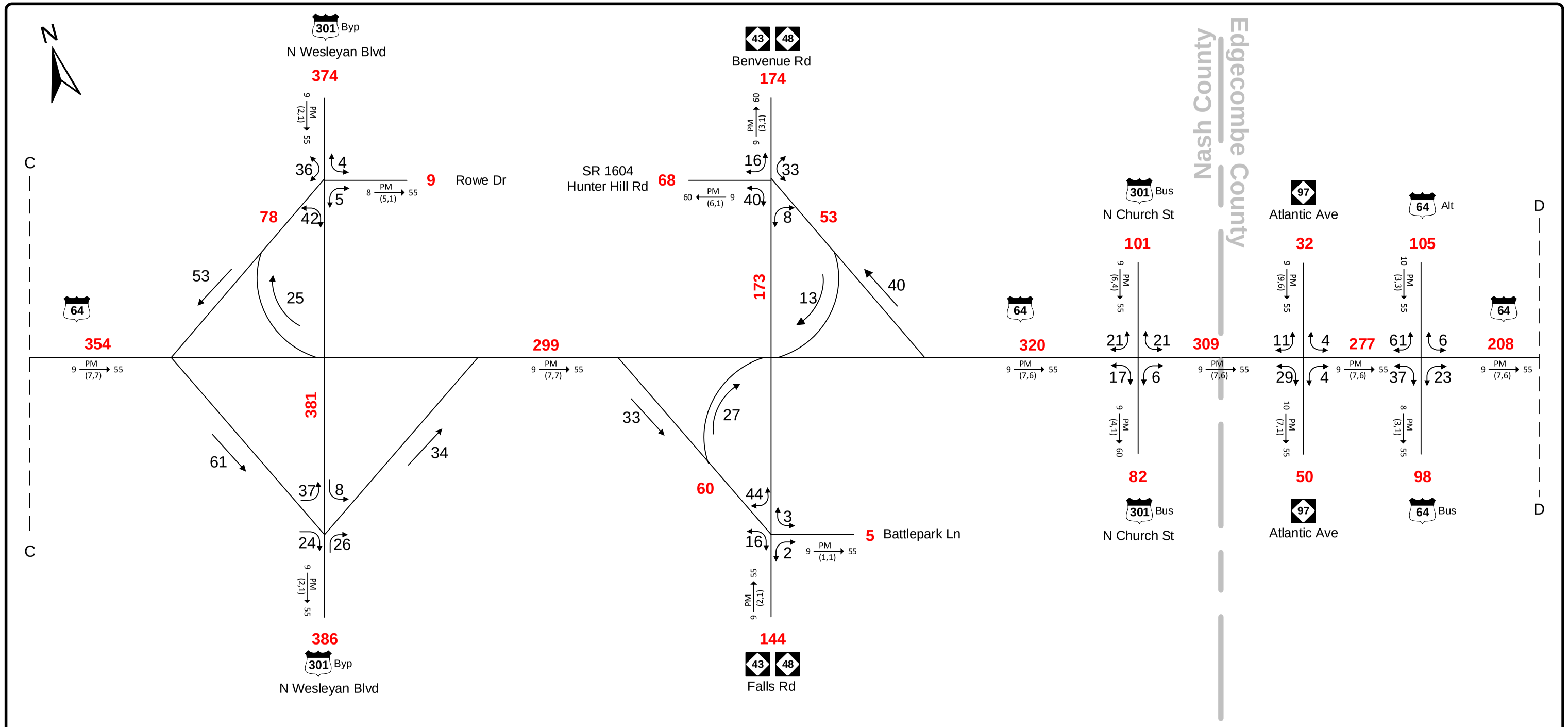
SHEET 3 OF 12

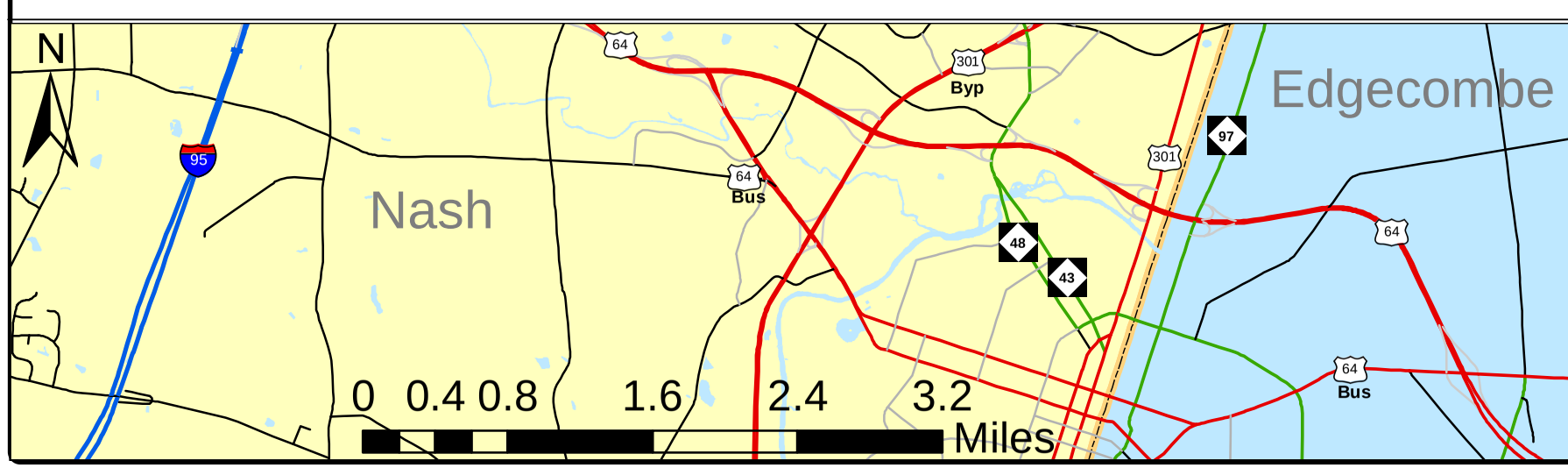
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
x	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

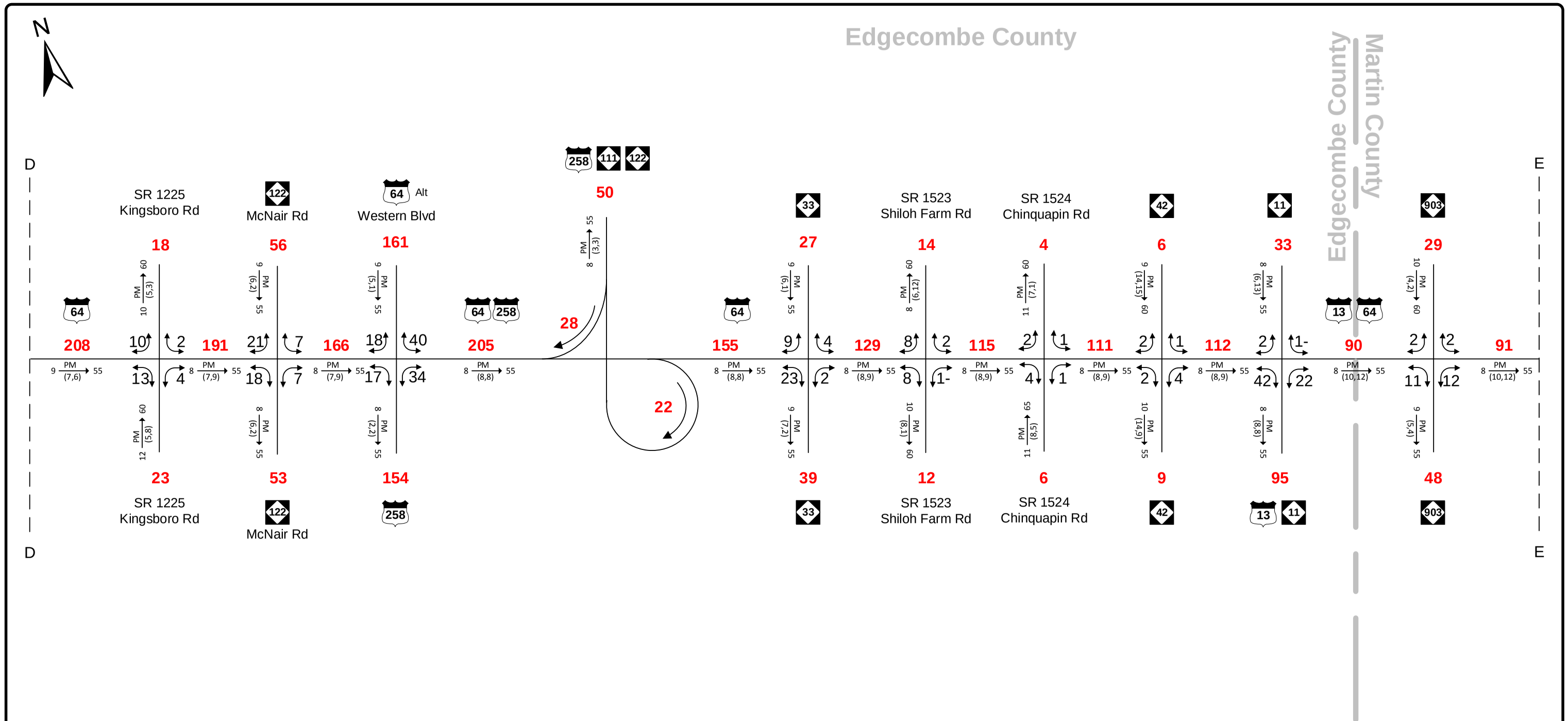
SHEET 4 OF 12

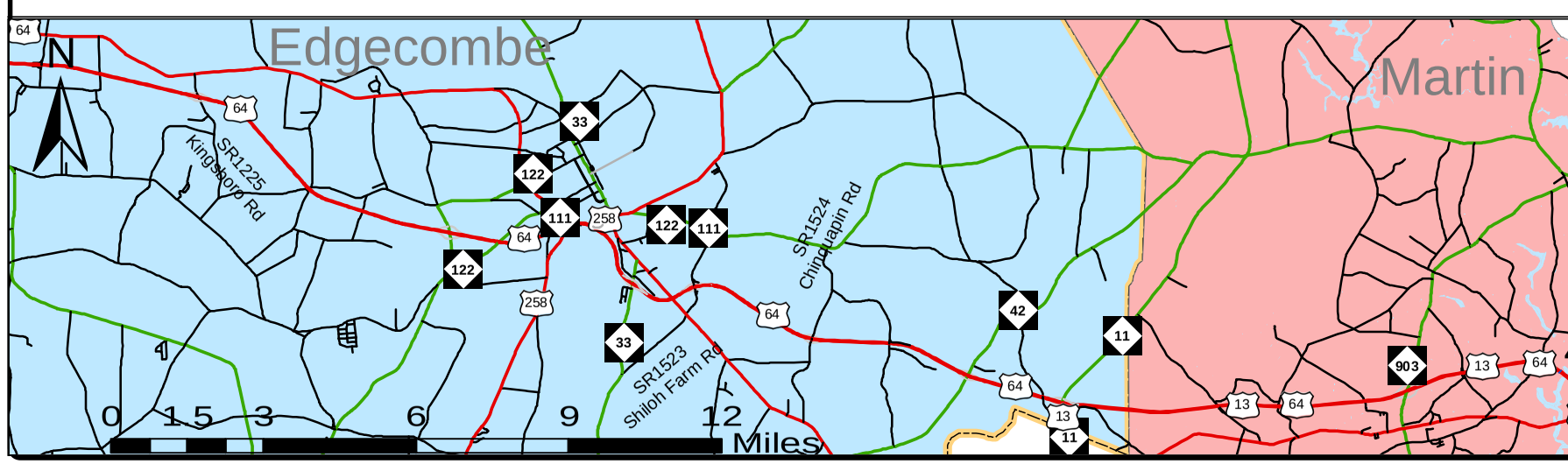
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
.....	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

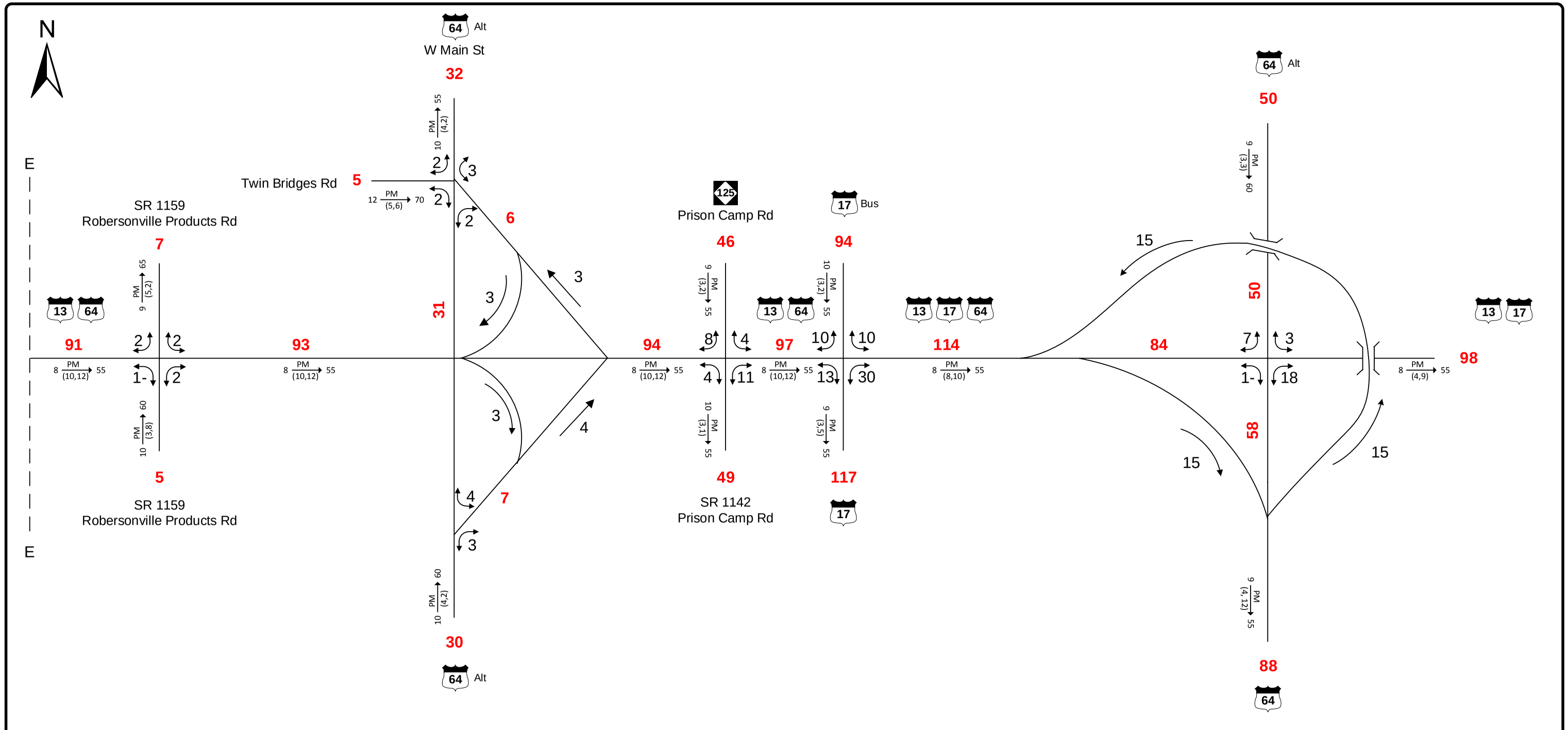
SHEET 5 OF 12

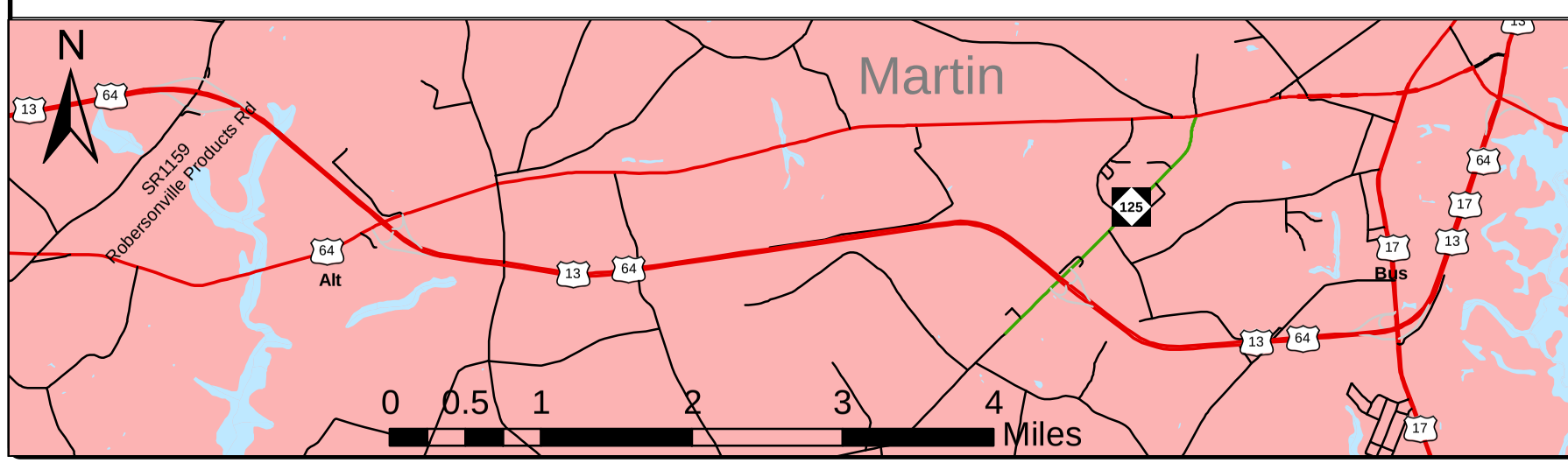
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
x	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2015 AVERAGE ANNUAL DAILY TRAFFIC

NO BUILD

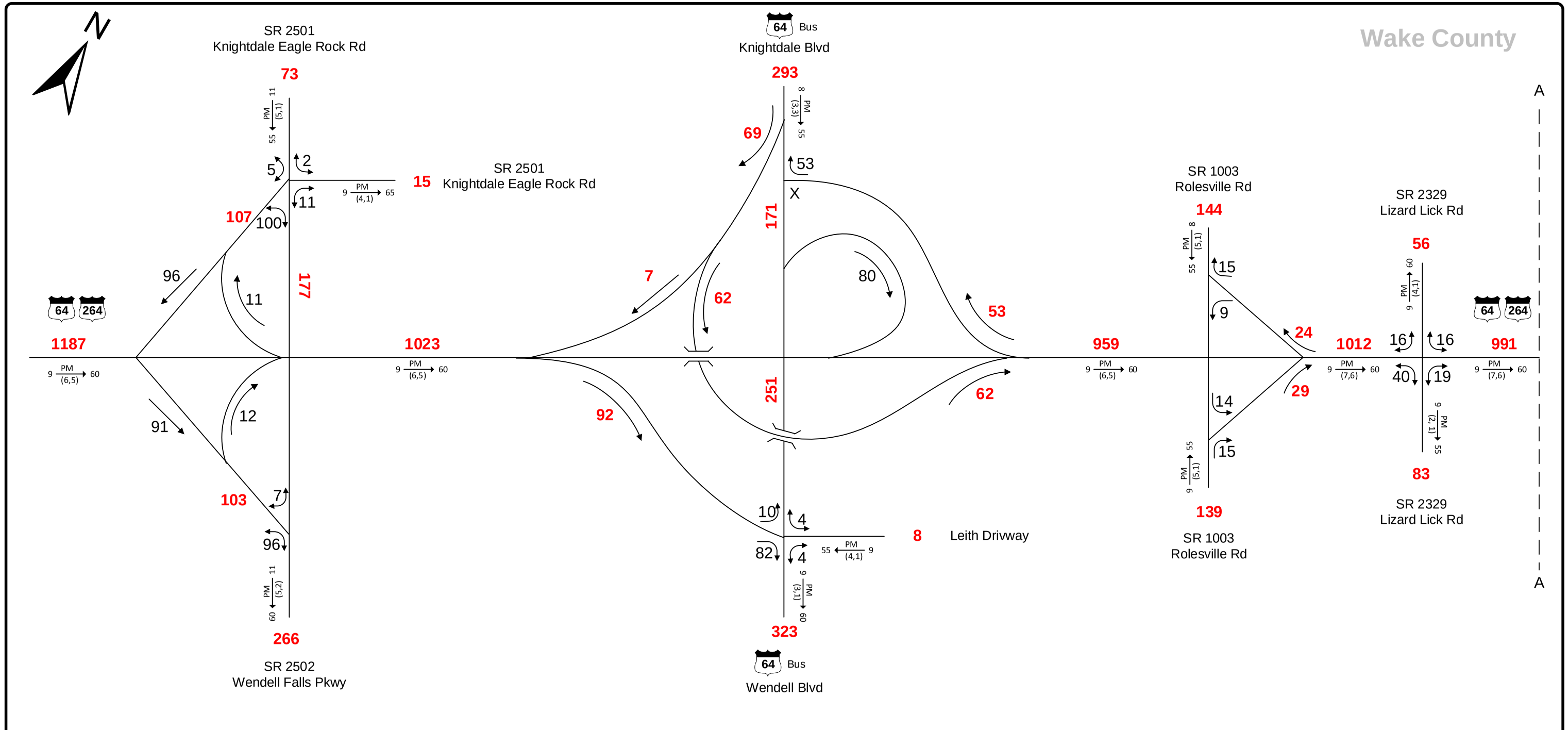
SHEET 6 OF 12

LEGEND

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
--------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	



2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

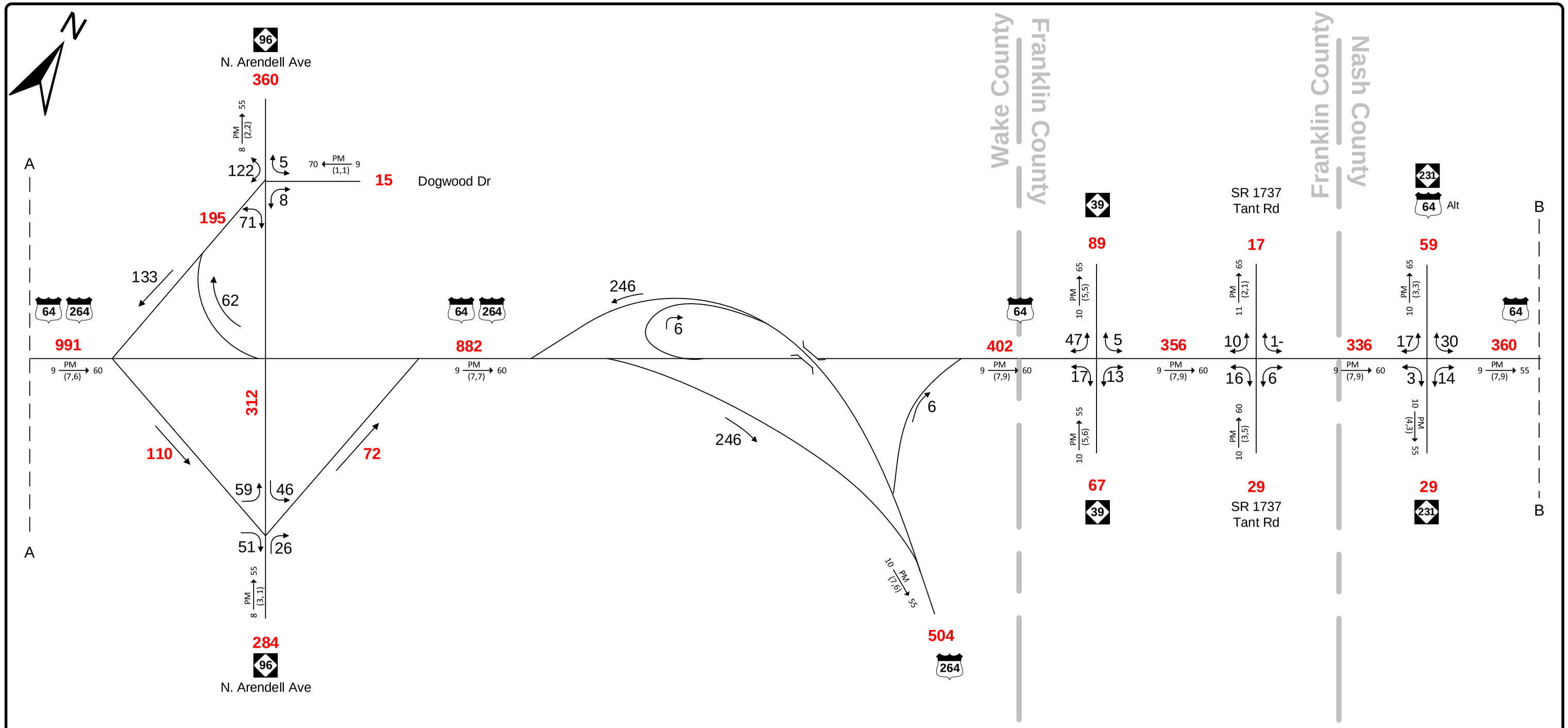
SHEET 7 OF 12

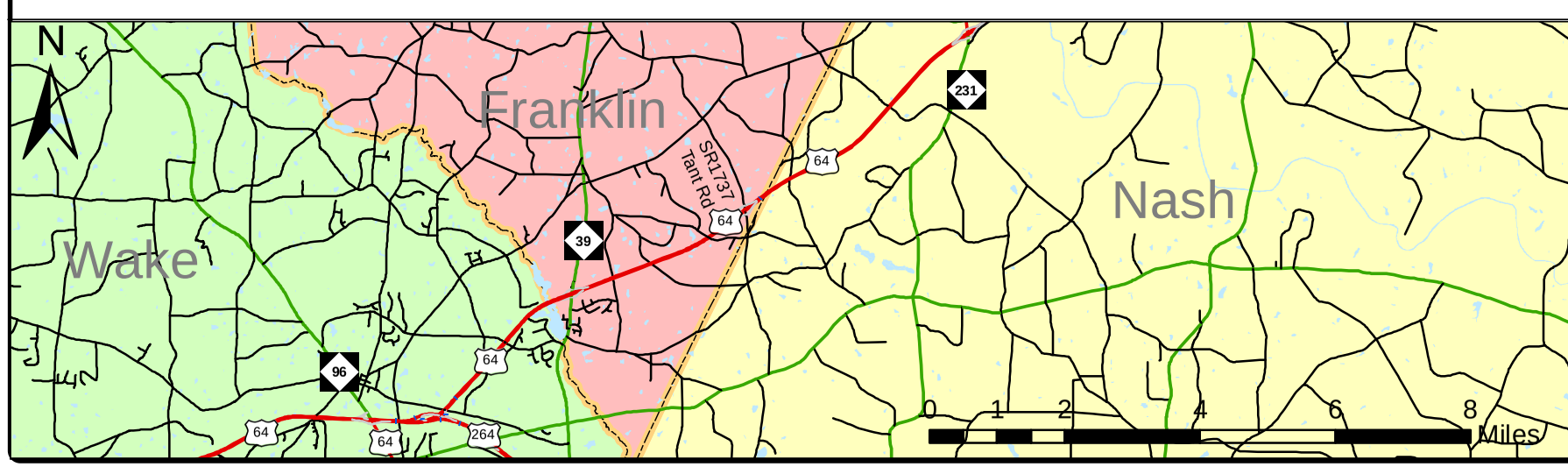
L E G E N D

K — PM (d, t) → D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
x	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

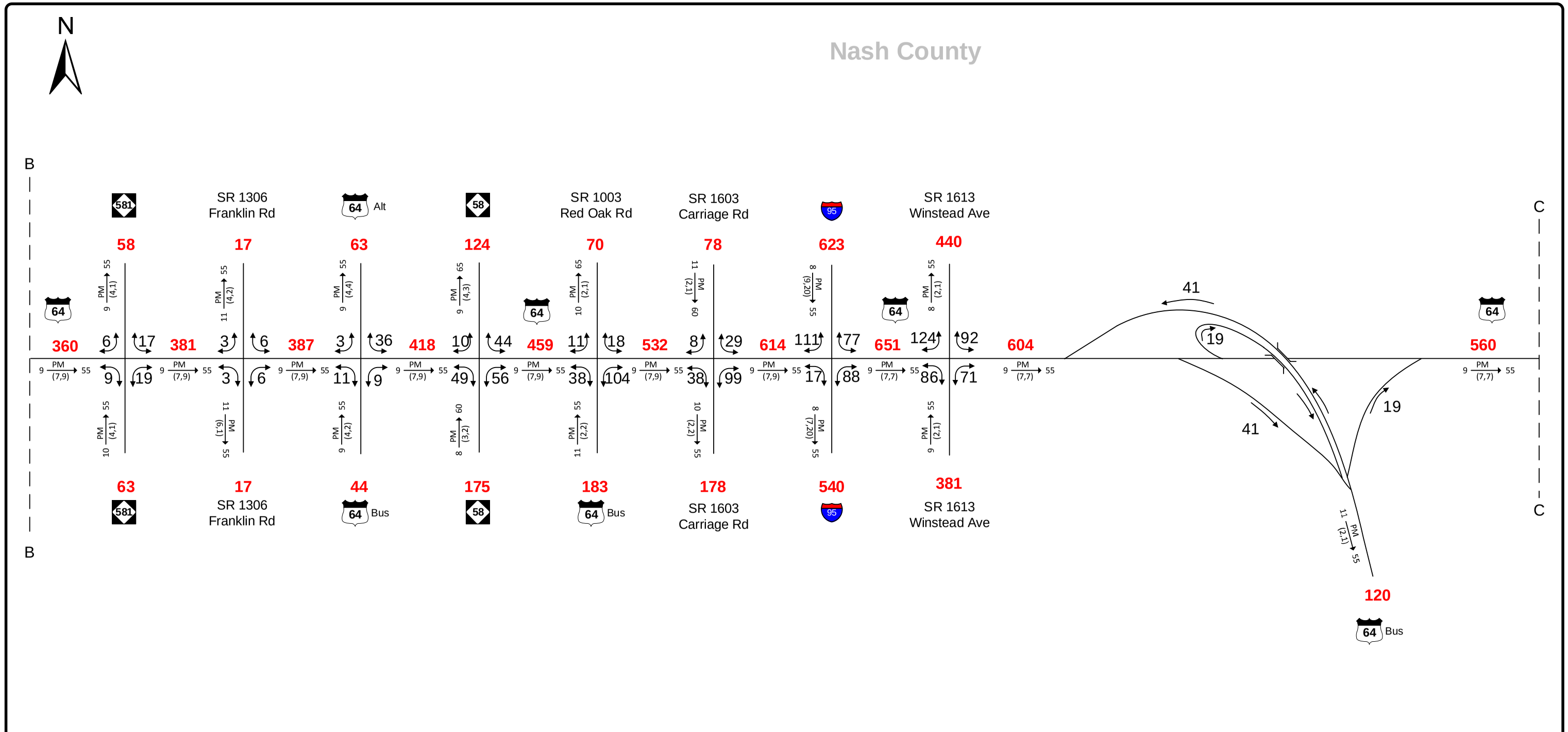
SHEET 8 OF 12

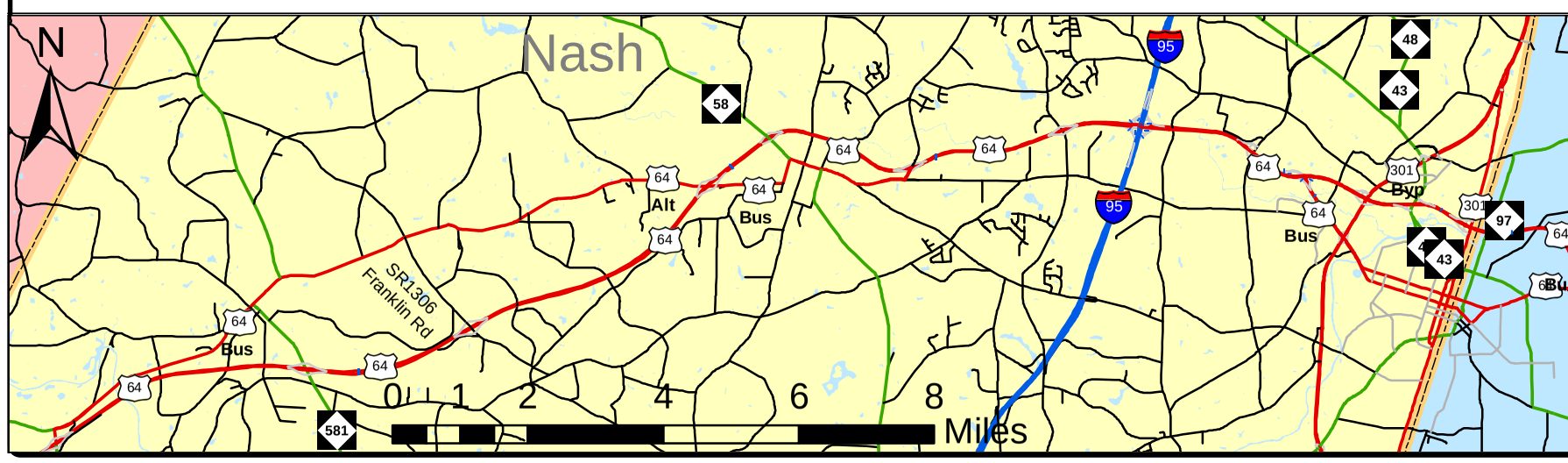
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
x	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

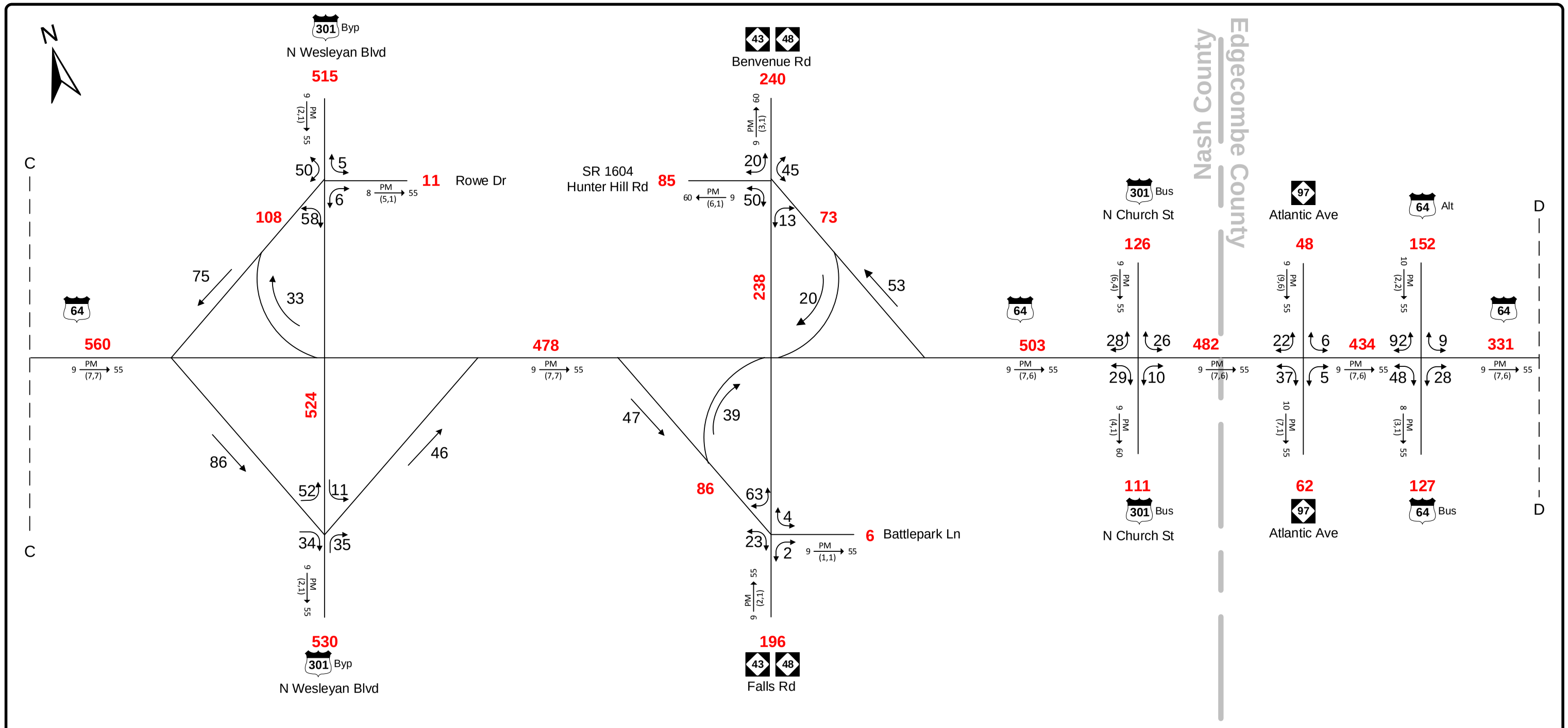
SHEET 9 OF 12

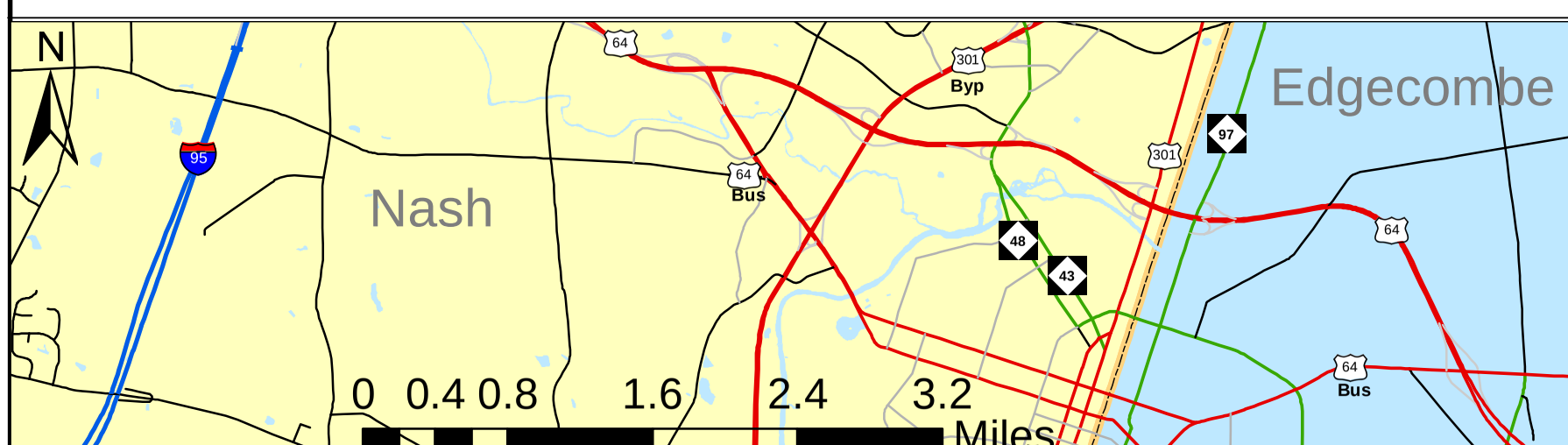
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

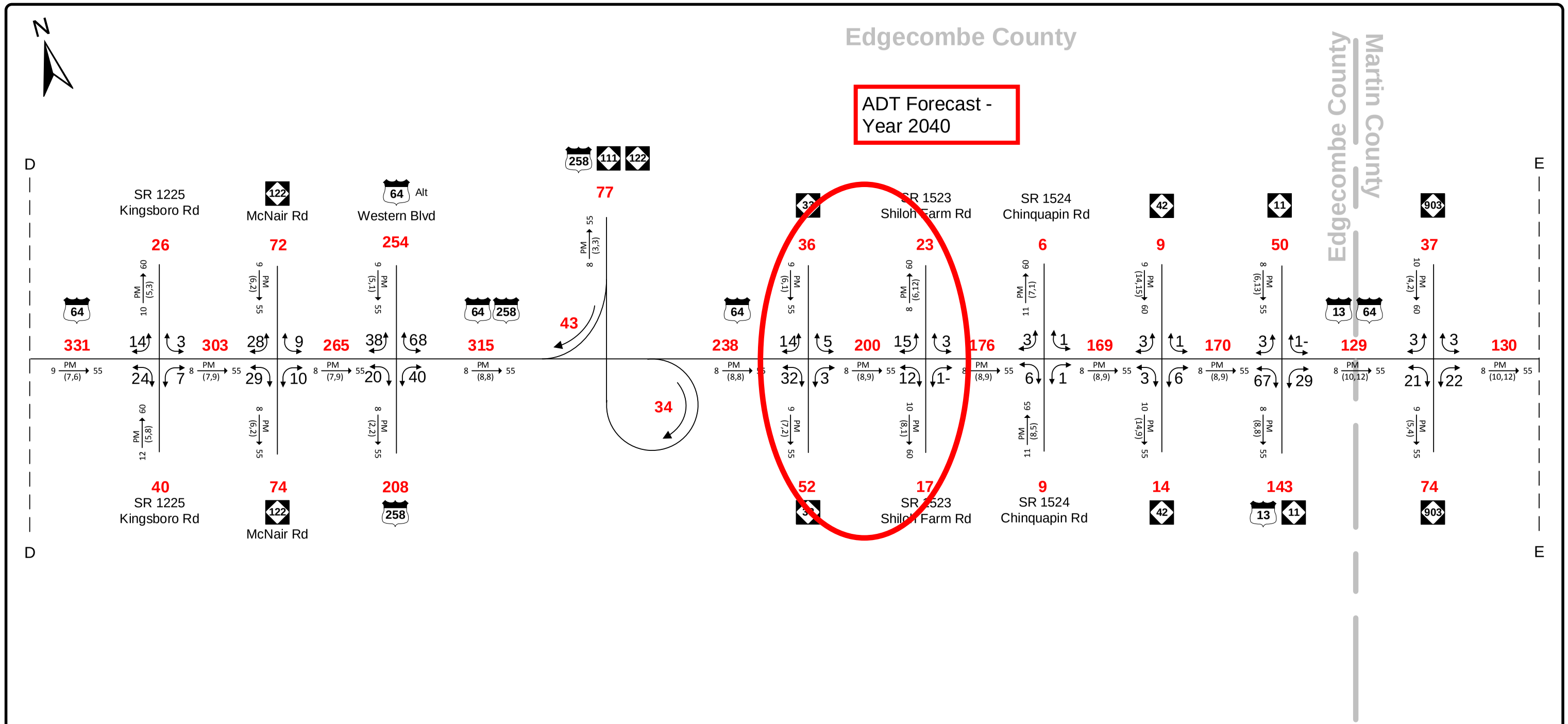
SHEET 10 OF 12

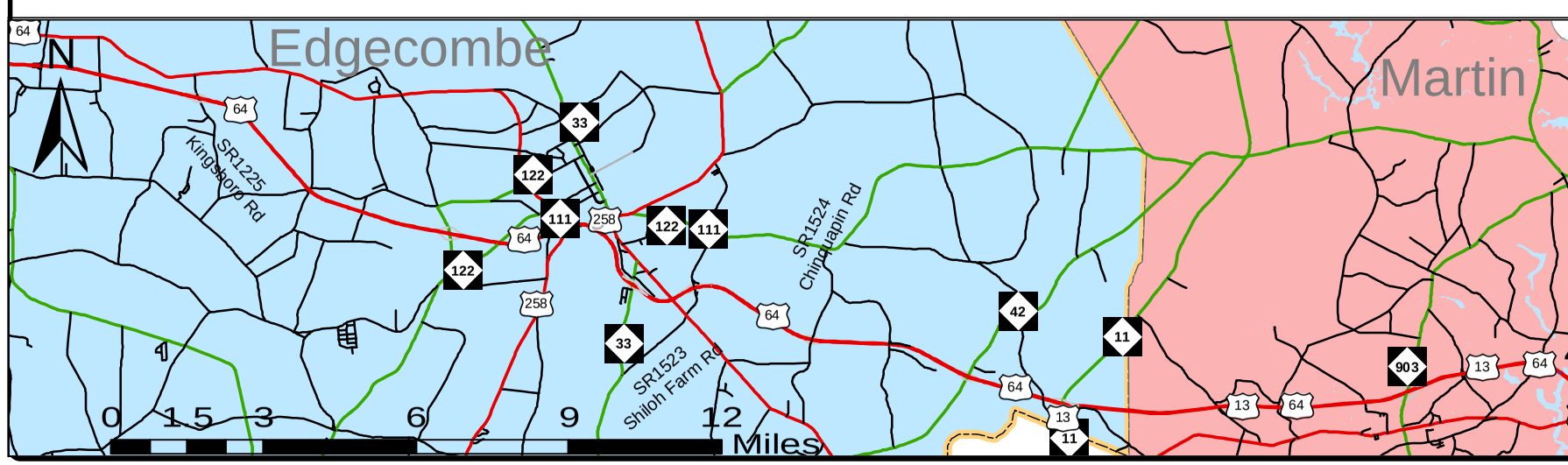
L E G E N D

K ← PM (d, t) → D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

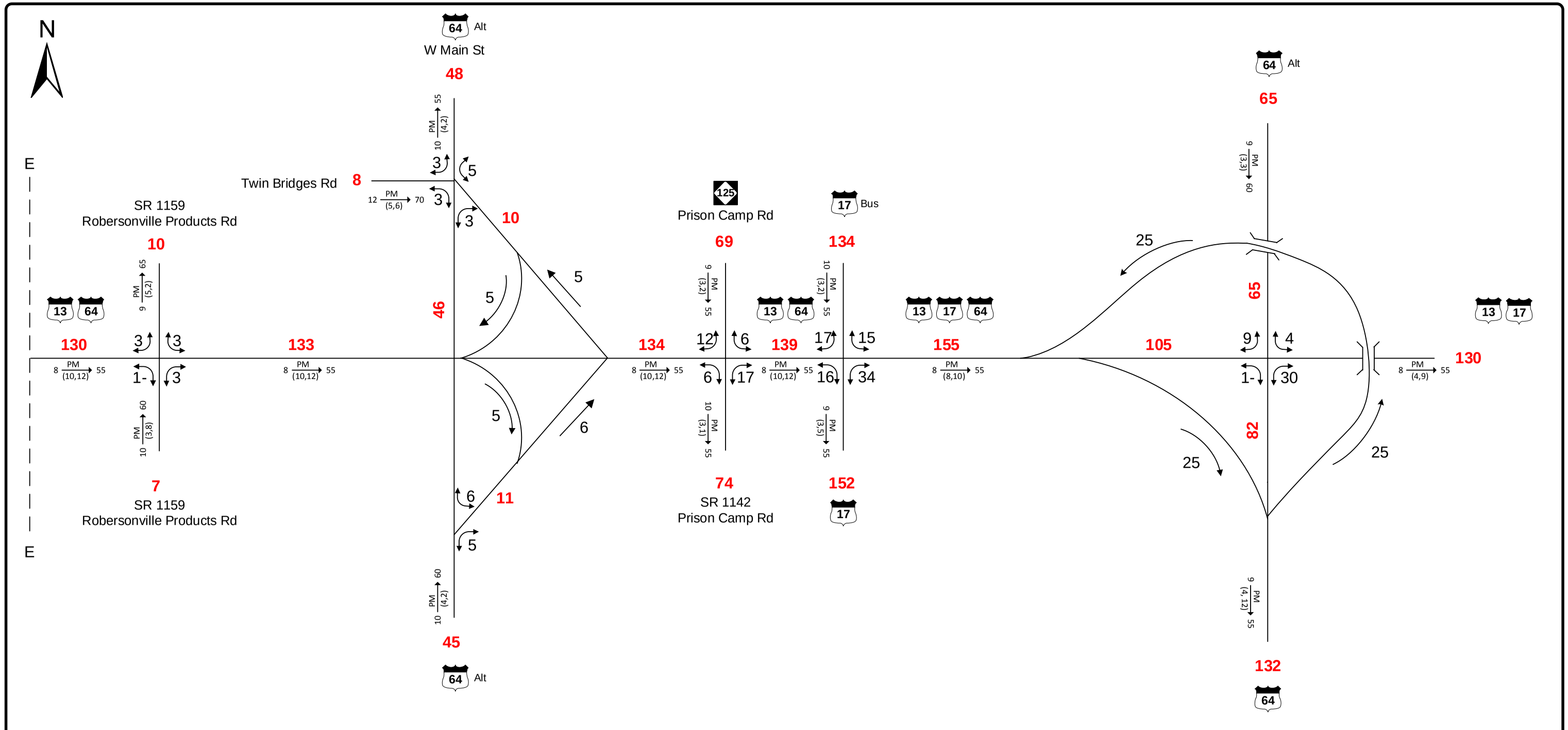
SHEET 11 OF 12

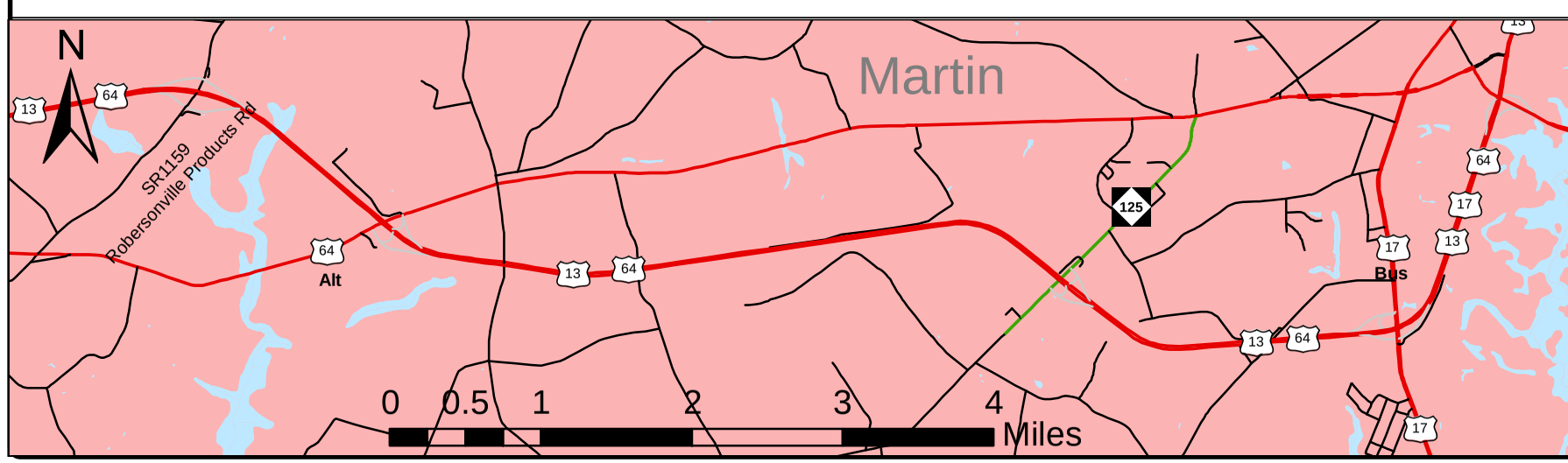
L E G E N D

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

TIP: FS-1504A	**WBS:** 34263.1.1
COUNTY: Multiple	**DIVISION:** 5, 4 & 1
DATE: 11-30-15	
PREPARED BY: Jamie Moore	
LOCATION: US 64 from SR 1003 (Rolesville Rd) to US 17 in Williamston	
PROJECT: Upgrade to Interstate Standards	





2040 AVERAGE ANNUAL DAILY TRAFFIC

BUILD

SHEET 12 OF 12

LEGEND

K —PM (d, t)→ D

###	No. of Vehicles Per Day (VPD) in 100s	K	Design Hour Factor (%)
1-	Less than 50 VPD	PM	PM Peak Period
X	Movement Prohibited	D	Peak Hour Directional Split
-------	Proposed Roadway	→	Indicates Direction of D
		(d, t)	Duals, TT-STs (%)

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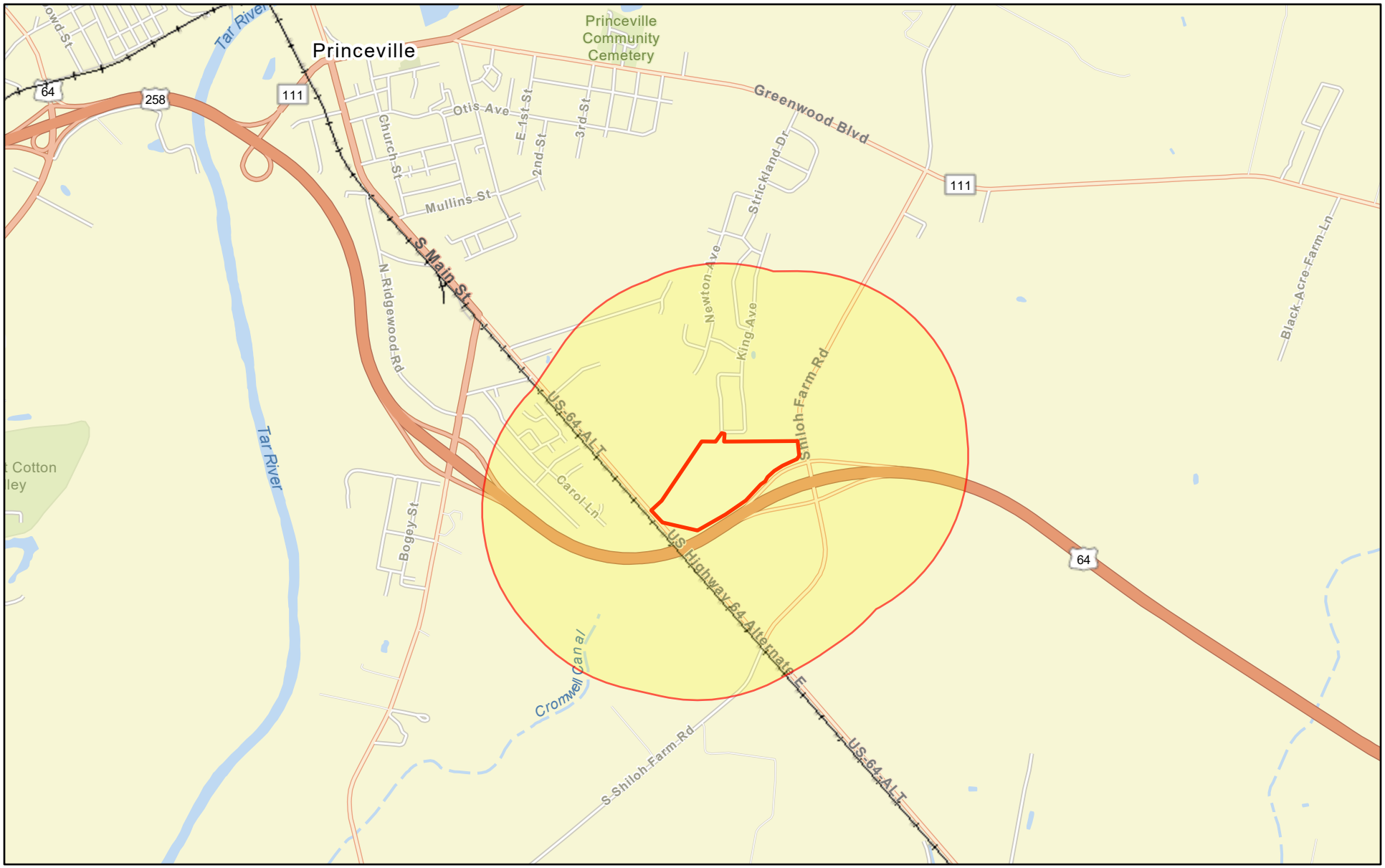
Princeville 53-Acre Site Redevelopment - Railroads Map with 3,000-foot Buffer



November 20, 2023

Project Buffer

Princeville 53-Acre Site Redevelopment

Railroads

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

Princeville 53-Acre Site Redevelopment - Railroads with 3,000-ft Buffer

July 11, 2023

Project Buffer

Project 1

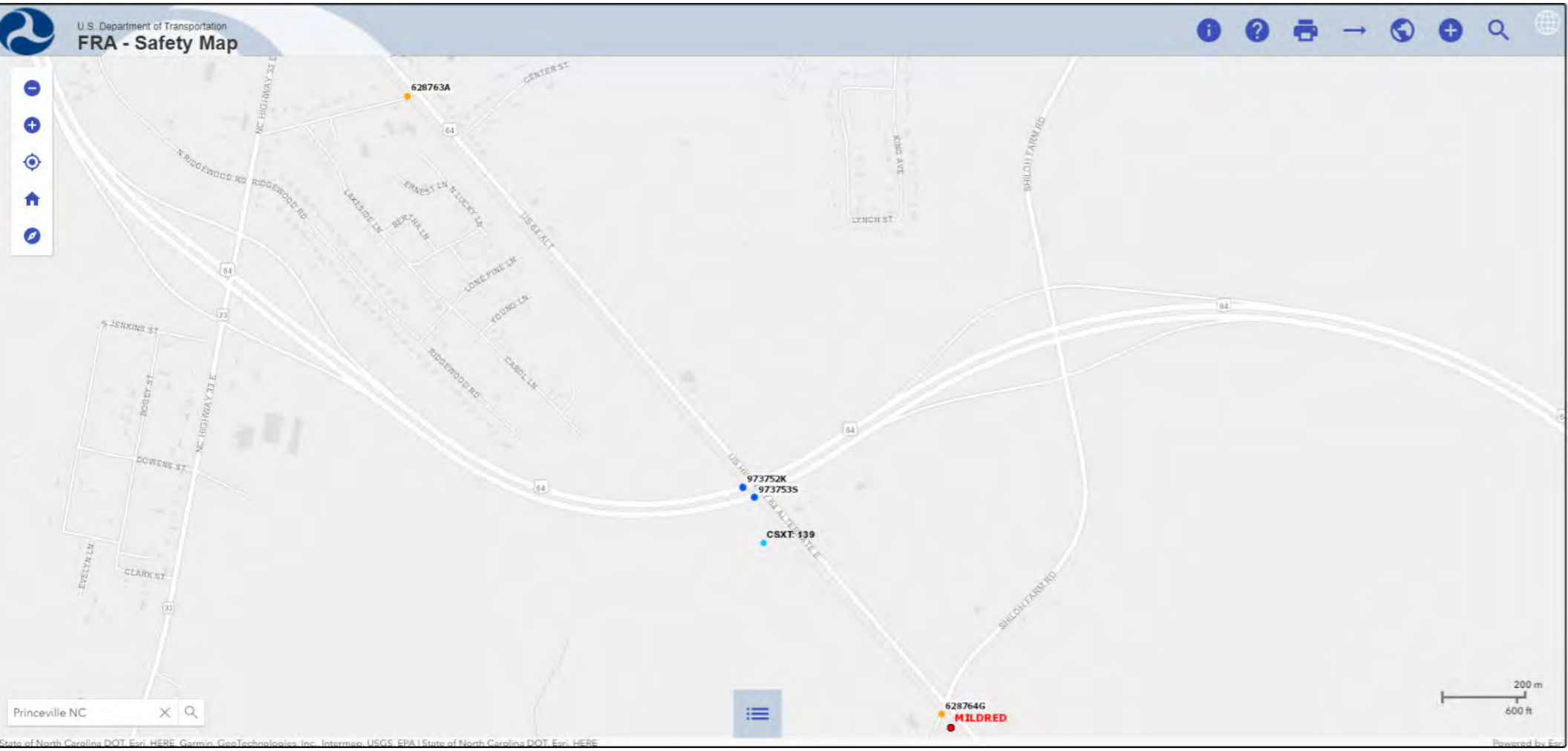
Railroads

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

© 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS © 2023 TomTom, EPA OEI


U.S. Department of Transportation
FRA - Safety Map
628763A
CENTER ST
NC HIGHWAY 33 E
N RIDGEWOOD RD
RIDGEWOOD RD
LAKESIDE LN
ERNEST LN
N LUCKY LN
US 64 ALT
LONE PINE LN
YOUNG LN
CAROL LN
KING AVE
LYNCH ST
SHILOH FARM RD
S JENKINS ST
BOBBY ST
DOWENS ST
CLARK ST
EVELYN LN
973752K
973753S
CSXT 139
628764G
MILDRED
Princeville NC
200 m
600 ft
State of North Carolina DOT, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, EPA | State of North Carolina DOT, Esri, HERE
Powered by Esri

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date *(MM/DD/YYYY)*: 05 / 02 / 2022

B. Reporting Agency: ☐ Railroad ☐ Transit ☒ State ☐ Other

C. Reason for Update *(Select only one)*: ☒ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☐ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction

D. DOT Crossing Inventory Number: 628763A

Part I: Location and Classification Information

1. Primary Operating Railroad: CSX Transportation [CSX]

2. State: NORTH CAROLINA

3. County: EDGECOMBE

4. City / Municipality: ☐ In ☒ Near PRINCEVILLE

5. Street/Road Name & Block Number: CONCRETE ROAD *(Street/Road Name)* | 200 *(* Block Number)*

6. Highway Type & No.: SR 1620

7. Do Other Railroads Operate a Separate Track at Crossing? ☐ Yes ☒ No
If Yes, Specify RR _____, _____, _____, _____

8. Do Other Railroads Operate Over Your Track at Crossing? ☐ Yes ☒ No
If Yes, Specify RR _____, _____, _____, _____

9. Railroad Division or Region: ☐ None SOUTHERN EAST

10. Railroad Subdivision or District: ☐ None TARBORO

11. Branch or Line Name: ☒ None

12. RR Milepost: ABC | 0138.190 | _____ *(prefix)* | *(nnnn.nnn)* | *(suffix)*

13. Line Segment *: 922470

14. Nearest RR Timetable Station *: TARBORO

15. Parent RR *(if applicable)*: ☒ N/A

16. Crossing Owner *(if applicable)*: ☒ N/A

17. Crossing Type: ☒ Public ☐ Private

18. Crossing Purpose: ☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.

19. Crossing Position: ☒ At Grade ☐ RR Under ☐ RR Over

20. Public Access *(if Private Crossing)*: ☐ Yes ☐ No

21. Type of Train: ☒ Freight ☐ Intercity Passenger ☐ Commuter ☐ Transit ☐ Shared Use Transit ☐ Tourist/Other

22. Average Passenger Train Count Per Day: ☐ Less Than One Per Day ☐ Number Per Day 0

23. Type of Land Use: ☐ Open Space ☐ Farm ☒ Residential ☐ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard

24. Is there an Adjacent Crossing with a Separate Number?: ☐ Yes ☒ No If Yes, Provide Crossing Number _____

25. Quiet Zone *(FRA provided)*: ☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established _____

26. HSR Corridor ID: _____ ☒ N/A

27. Latitude in decimal degrees *(WGS84 std: nn.nnnnnnn)*: 35.87447330

28. Longitude in decimal degrees *(WGS84 std: -nnn.nnnnnnn)*: -77.518992

29. Lat/Long Source: ☒ Actual ☐ Estimated

30.A. Railroad Use *

31.A. State Use *

30.B. Railroad Use *

31.B. State Use *

30.C. Railroad Use *

31.C. State Use *

30.D. Railroad Use *

31.D. State Use *

32.A. Narrative *(Railroad Use)* *

32.B. Narrative *(State Use)* *

33. Emergency Notification Telephone No. *(posted)*: 800-232-0144

34. Railroad Contact *(Telephone No.)*: 904-366-3051

35. State Contact *(Telephone No.)*: 919-707-4100

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains *(6 AM to 6 PM)*: 0

1.B. Total Night Thru Trains *(6 PM to 6 AM)*: 0

1.C. Total Switching Trains: 1

1.D. Total Transit Trains: 0

1.E. Check if Less Than One Movement Per Day ☐ How many trains per week? _____

2. Year of Train Count Data *(YYYY)*: 2021

3. Speed of Train at Crossing
3.A. Maximum Timetable Speed *(mph)* 25
3.B. Typical Speed Range Over Crossing *(mph)* From 25 to 25

4. Type and Count of Tracks
Main 1 Siding 0 Yard 0 Transit 0 Industry 0

5. Train Detection *(Main Track only)*
☐ Constant Warning Time ☒ Motion Detection ☐ AFO ☐ PTC ☐ DC ☐ Other ☐ None

6. Is Track Signaled? ☐ Yes ☒ No

7.A. Event Recorder ☐ Yes ☒ No

7.B. Remote Health Monitoring ☐ Yes ☒ No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date *(MM/DD/YYYY)* 05/02/2022	PAGE 2	D. Crossing Inventory Number *(7 char.)* 628763A

Part III: Highway or Pathway Traffic Control Device Information

1. Are there Signs or Signals? ☒ Yes ☐ No

2. Types of Passive Traffic Control Devices associated with the Crossing

2.A. Crossbuck Assemblies *(count)* 0

2.B. STOP Signs *(R1-1) (count)* 0

2.C. YIELD Signs *(R1-2) (count)* 0

2.D. Advance Warning Signs *(Check all that apply; include count)* ☐ None
☒ W10-1 2 ☒ W10-3 0 ☒ W10-11 0
☒ W10-2 0 ☒ W10-4 0 ☒ W10-12 0

2.E. Low Ground Clearance Sign *(W10-5)*
☐ Yes *(count* 0 *)*
☒ No

2.F. Pavement Markings
☒ Stop Lines ☐ Dynamic Envelope
☒ RR Xing Symbols ☐ None

2.G. Channelization Devices/Medians
☐ All Approaches ☐ Median
☐ One Approach ☒ None

2.H. EXEMPT Sign *(R15-3)*
☐ Yes
☒ No

2.I. ENS Sign *(I-13)* Displayed
☒ Yes
☐ No

2.J. Other MUTCD Signs ☐ Yes ☒ No
Specify Type _____ Count 0
Specify Type _____ Count 0
Specify Type _____ Count 0

2.K. Private Crossing Signs *(if private)*
☐ Yes ☐ No

2.L. LED Enhanced Signs *(List types)*

3. Types of Train Activated Warning Devices at the Grade Crossing *(specify count of each device for all that apply)*

3.A. Gate Arms *(count)*
Roadway 2
Pedestrian 0

3.B. Gate Configuration
☒ 2 Quad ☐ Full *(Barrier)* Resistance
☐ 3 Quad
☐ 4 Quad ☐ Median Gates

3.C. Cantilevered *(or Bridged)* Flashing Light Structures *(count)*
Over Traffic Lane 0 ☐ Incandescent
Not Over Traffic Lane 0 ☐ LED

3.D. Mast Mounted Flashing Lights *(count of masts)* 2
☒ Incandescent ☐ LED
☒ Back Lights Included ☒ Side Lights Included

3.E. Total Count of Flashing Light Pairs
5

3.F. Installation Date of Current Active Warning Devices: *(MM/YYYY)*
_____/_____ ☐ Not Required

3.G. Wayside Horn
☐ Yes Installed on *(MM/YYYY)* _____/_____
☒ No

3.H. Highway Traffic Signals Controlling Crossing
☐ Yes ☒ No

3.I. Bells *(count)*
1

3.J. Non-Train Active Warning
☐ Flagging/Flagman ☐ Manually Operated Signals ☐ Watchman ☐ Floodlighting ☒ None

3.K. Other Flashing Lights or Warning Devices
Count 0 Specify type _____

4.A. Does nearby Hwy Intersection have Traffic Signals?
☐ Yes ☒ No

4.B. Hwy Traffic Signal Interconnection
☒ Not Interconnected
☐ For Traffic Signals
☐ For Warning Signs

4.C. Hwy Traffic Signal Preemption
☐ Simultaneous
☐ Advance

5. Highway Traffic Pre-Signals
☐ Yes ☒ No
Storage Distance * 0
Stop Line Distance * 0

6. Highway Monitoring Devices *(Check all that apply)*
☐ Yes - Photo/Video Recording
☐ Yes – Vehicle Presence Detection
☒ None

Part IV: Physical Characteristics

1. Traffic Lanes Crossing Railroad ☐ One-way Traffic ☒ Two-way Traffic ☐ Divided Traffic
Number of Lanes 2

2. Is Roadway/Pathway Paved? ☒ Yes ☐ No

3. Does Track Run Down a Street? ☐ Yes ☒ No

4. Is Crossing Illuminated? *(Street lights within approx. 50 feet from nearest rail)* ☐ Yes ☒ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* _____/_____ Width * _____ Length * 33
☐ 1 Timber ☐ 2 Asphalt ☒ 3 Asphalt and Timber ☐ 4 Concrete ☐ 5 Concrete and Rubber ☐ 6 Rubber ☐ 7 Metal
☐ 8 Unconsolidated ☐ 9 Composite ☐ 10 Other *(specify)* _____

6. Intersecting Roadway within 500 feet?
☒ Yes ☐ No If Yes, Approximate Distance *(feet)* 75

7. Smallest Crossing Angle
☐ 0° – 29° ☐ 30° – 59° ☒ 60° - 90°

8. Is Commercial Power Available? *
☒ Yes ☐ No

Part V: Public Highway Information

1. Highway System
☐ (01) Interstate Highway System
☐ (02) Other Nat Hwy System (NHS)
☐ (03) Federal AID, Not NHS
☒ (08) Non-Federal Aid

2. Functional Classification of Road at Crossing
☒ (0) Rural ☐ (1) Urban
☐ (1) Interstate ☐ (5) Major Collector
☐ (2) Other Freeways and Expressways
☐ (3) Other Principal Arterial ☐ (6) Minor Collector
☐ (4) Minor Arterial ☒ (7) Local

3. Is Crossing on State Highway System?
☒ Yes ☐ No

4. Highway Speed Limit
55 MPH
☐ Posted ☒ Statutory

5. Linear Referencing System *(LRS Route ID)* *

6. LRS Milepost *

7. Annual Average Daily Traffic *(AADT)*
Year 2015 AADT 507

8. Estimated Percent Trucks
0 %

9. Regularly Used by School Buses?
☒ Yes ☐ No Average Number per Day 13

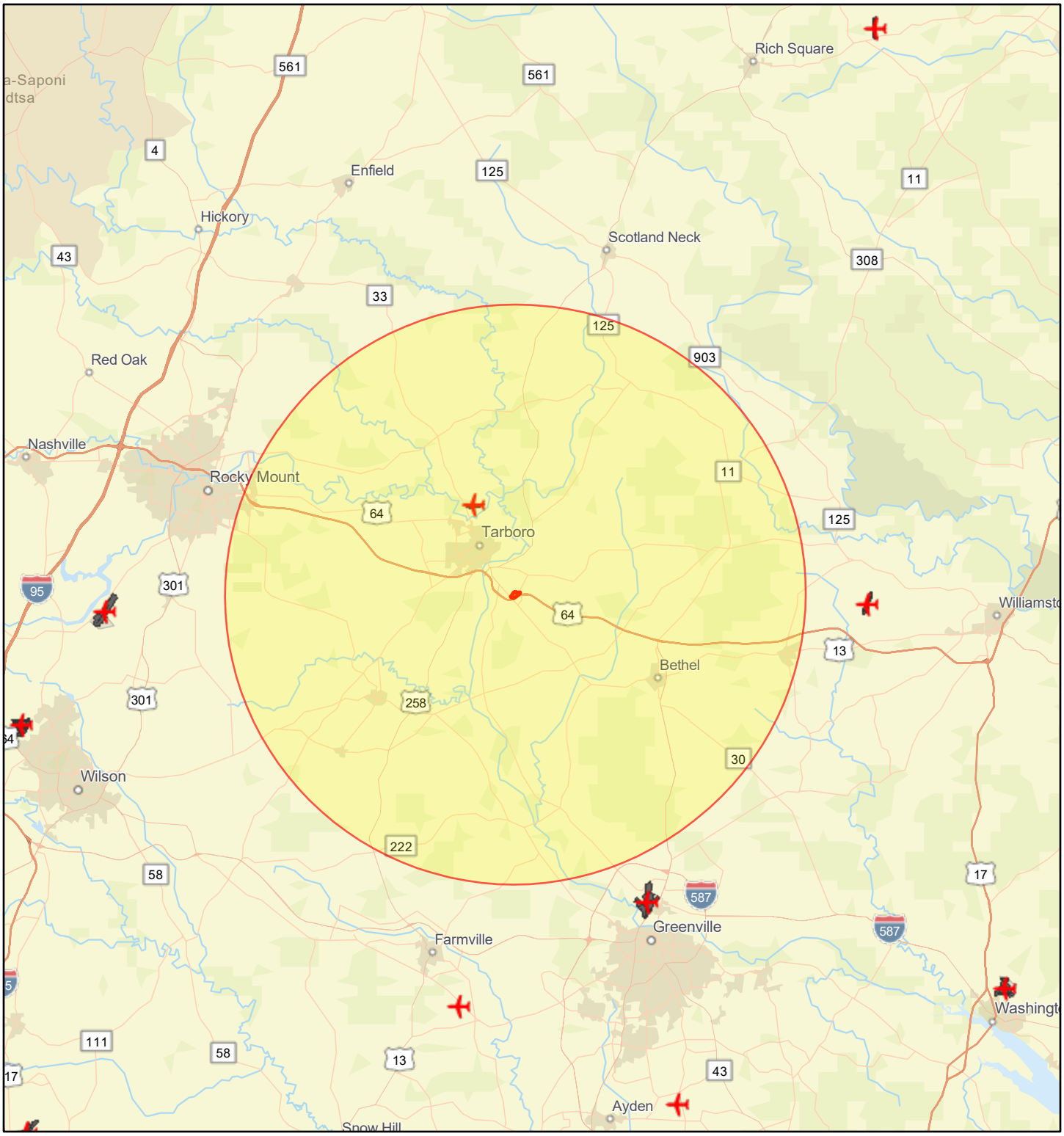
10. Emergency Services Route
☐ Yes ☒ No

Submission Information - *This information is used for administrative purposes and is not available on the public website.*

Submitted by _____ Organization _____ Phone _____ Date _____

Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.

Princeville 53-Acre Site Redevelopment - Airports Map with 15-mile Buffer



November 20, 2023

1:577,791

0 4 8 16 mi

0 5 10 20 km

Project Buffer

Princeville 53-Acre Site Redevelopment

Airport Points

Airport Polygons

Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, EPA OEI

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIRPORT MASTER RECORD

PRINT DATE: 6/20/2023
AFD EFF 06/15/2023
FORM APPROVED OMB 2120-0015

> 1 ASSOC CITY: TARBORO
> 2 AIRPORT NAME: TARBORO-EDGECOMBE
3 CBD TO AIRPORT (NM): 02 N
4 STATE: NC
6 REGION/ADO: ASO/MEM
LOC ID: ETC
5 COUNTY: EDGECOMBE NC
7 SECT AERO CHT: CHARLOTTE
FAA SITE NR: 17154.1*A

GENERAL

10 OWNERSHIP: PUBLIC
> 11 OWNER: TARBORO-EDGECOMBE ARPT AUTH
> 12 ADDRESS: PO BOX 280
TARBORO, NC 27886
> 13 PHONE NR: 252-641-4229
> 14 MANAGER: JASON NICHOLS
> 15 ADDRESS: PO BOX 220
TARBORO, NC 27886
> 16 PHONE NR: (252) 641-4229
> 17 ATTENDANCE SCHEDULE:
UNATNDD

SERVICES

> 70 FUEL: 100LL
> 71 AIRFRAME RPRS: NONE
> 72 PWR PLANT RPRS: NONE
> 73 BOTTLE OXYGEN: NONE
> 74 BULK OXYGEN: NONE
75 TSNT STORAGE: TIE
76 OTHER SERVICES:
AGRI

BASED AIRCRAFT

90 SINGLE ENG:	5
91 MULTI ENG:	1
92 JET:	0
93 HELICOPTERS:	0
TOTAL:	6
94 GLIDERS:	0
95 MILITARY:	0
96 ULTRA-LIGHT:	0

FACILITIES

18 AIRPORT USE: PUBLIC
19 ARPT LAT: 35-56-14.1470N ESTIMATED
20 ARPT LONG: 077-32-47.3290W
21 ARPT ELEV: 52.6 SURVEYED
22 ACREAGE: 86
> 23 RIGHT TRAFFIC: NO
> 24 NON-COMM LANDING: NO
25 NPIAS/FED AGREEMENTS: N
> 26 FAR 139 INDEX:

> 80 ARPT BCN: WG
> 81 ARPT LGT SKED : SEE RMK
BCN LGT SKED: SS-SR
> 82 UNICOM:
> 83 WIND INDICATOR: YES-L
84 SEGMENTED CIRCLE: YES
85 CONTROL TWR: NO
86 FSS: RALEIGH
87 FSS ON ARPT: NO
88 FSS PHONE NR:
89 TOLL FREE NR: 1-800-WX-BRIEF

OPERATIONS

100 AIR CARRIER:	0
102 AIR TAXI:	800
103 G A LOCAL:	2,000
104 G A ITNRNT:	2,000
105 MILITARY:	500
TOTAL:	5,300

OPERATIONS FOR 12 MONTHS ENDING: 05/20/2021

RUNWAY DATA

	09/27			
> 30 RUNWAY INDENT:	3,999			
> 31 LENGTH:	60			
> 32 WIDTH:	ASPH-G			
> 33 SURF TYPE-COND:	NONE			
> 34 SURF TREATMENT:				
35 GROSS WT:	S			
36 (IN THSDS)	D			
37	2D			
38	2D/2D2			
> 39 PCN:				
LIGHTING/APCH AIDS				
> 40 EDGE INTENSITY:	MED			
> 42 RWY MARK TYPE-COND:	NPI - G / NPI - G	- / -	- / -	- / -
> 43 VGSI:	P2L / P2L	/	/	/
44 THR COSSING HGT.:	27 / 29	/	/	/
45 VISUAL GLIDE ANGLE:	4.00 / 3.00	/	/	/
> 46 CNTRLN-TDZ:	- / -	- / -	- / -	- / -
> 47 RVR-RVV:	- / -	- / -	- / -	- / -
> 48 REIL:	N / Y	/	/	/
> 49 APCH LIGHTS:	/	/	/	/
OBSTRUCTION DATA				
50 FAR 77 CATEGORY	A(V) / A(NP)	/	/	/
> 51 DISPLACED THR:	200 /	/	/	/
> 52 CTLG OBSTN:	TREES / TREES	/	/	/
> 53 OBSTN MARKED/LGTD:	/	/	/	/
> 54 HGT ABOVE RWY END:	27 / 21	/	/	/
> 55 DIST FROM RWY END:	319 / 839	/	/	/
> 56 CNTRLN OFFSET:	3R / 4L	/	/	/
57 OBSTN CLNC SLOPE:	4:1 / 30:1	/	/	/
58 CLOSE-IN OBSTN:	Y / N	/	/	/
DECLARED DISTANCES				
> 60 TAKE OFF RUN AVBL (TORA):	/	/	/	/
> 61 TAKE OFF DIST AVBL (TODA):	/	/	/	/
> 62 ACLT STOP DIST AVBL (ASDA):	/	/	/	/
> 63 LNDG DIST AVBL (LDA):	/	/	/	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

A 016 EMERGENCY PHONE DURG BUS HRS 252-641-4229 TOWN HALL; 252-641-4247 POLICE DISPATCH.
A 057 RWY 09 RWY 9 APCH SLOPE 7:1 DUE TO 48 FT TREES 575 FT FM THE DSPLCD THLD & OFFSET 126 FT R OF CNTRLN.
A 058 RWY 09 15 FT ROAD 160 FT FM END BOTH SIDES CNTRLN; 4 FT FENCE 125 FT FM END BOTH SIDES CNTRLN; 13 FT TREE 125 FT FM END OFFSET 10 FT R OF CNTRLN; AND 10 FT TREE 152 FT FM END OFFSET 121 FT L OF CNTRLN.
A 070 SELF SVC 100LL AVBL 24 HRS WITH CREDITCARD.
A 081 ACTVT MIRL RWY 09/27, REIL RWY 27 & PAPI RWYS 09 & 27 - CTAF.
A 110-001 DEER ON AND INVOF ARPT.
A 110-002 500' LOW LEVEL ROUTE 3 MI NE OF ARPT - BE ALERT FOR MIL ACFT INVOF ARPT.
A 110-005 RWY 27 SAFETY AREA HAS SFC VARIATIONS & DEPRESSIONS AND A 20 FT DROP OFF 100 FT FM BOTH SIDES.
A 110-006 FOR CD CTC WASHINGTON ARTCC AT 703-771-3587.

111 INSPECTOR: (S) 112 LAST INSP: 05/20/2021 113 LAST INFO REQ: 12/15/1982

Airport Noise Worksheet

Use this worksheet to identify information needed to evaluate a site's exposure to aircraft noise.

Name and Location of Project: Mised Use Development – 53 Acres Princeville NC
Date: June 20, 2023
Name of Airport: Tarboro-Edgecombe (ETC)
Person completing worksheet: Rachel Keane – Terracon Consultants

1. Determine if the proposed site/project is within 15 miles of a civil or military airport.

☐ No. Attach a map identifying the location of the proposed project site and the location of any airports. This worksheet is not required.
☒ Yes. Attach a map identifying the location of the proposed project site and the location of any airports. Continue

2. Determine the number of operations at the airport by:
   - Going to: http://www.gcr1.com/5010web/
   - Type in the name of the city press search
   - Find your airport.
   - Open the report under "Print 5010."
   - Complete section 3 below by using the information found in the report (see ETC Inventory Sheet below).

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIRPORT MASTER RECORD

PRINT DATE: 6/20/2023
AFD EFF 06/15/2023
FORM APPROVED OMB 2120-0015

> 1 ASSOC CITY: TARBORO
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LOC ID: ETC
5 COUNTY: EDGECOMBE NC
7 SECT AERO CHT: CHARLOTTE
FAA SITE NR: 17154.1*A

GENERAL

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> 11 OWNER: TARBORO-EDGECOMBE ARPT AUTH
> 12 ADDRESS: PO BOX 280
TARBORO, NC 27886
> 13 PHONE NR: 252-641-4229
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> 15 ADDRESS: PO BOX 220
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> 16 PHONE NR: (252) 641-4229
> 17 ATTENDANCE SCHEDULE:
UNATNDD

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25 NPIAS/FED AGREEMENTS: N
> 26 FAR 139 INDEX:

SERVICES

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> 71 AIRFRAME RPRS: NONE
> 72 PWR PLANT RPRS: NONE
> 73 BOTTLE OXYGEN: NONE
> 74 BULK OXYGEN: NONE
75 TSNT STORAGE: TIE
76 OTHER SERVICES:
AGRI

FACILITIES

> 80 ARPT BCN: WG
> 81 ARPT LGT SKED : SEE RMK
BCN LGT SKED: SS-SR
> 82 UNICOM:
> 83 WIND INDICATOR: YES-L
84 SEGMENTED CIRCLE: YES
85 CONTROL TWR: NO
86 FSS: RALEIGH
87 FSS ON ARPT: NO

88 FSS PHONE NR:
89 TOLL FREE NR: 1-800-WX-BRIEF

BASED AIRCRAFT

90 SINGLE ENG:	5
91 MULTI ENG:	1
92 JET:	0
93 HELICOPTERS:	0
TOTAL:	6
94 GLIDERS:	0
95 MILITARY:	0
96 ULTRA-LIGHT:	0

OPERATIONS

100 AIR CARRIER:	0
102 AIR TAXI:	800
103 G A LOCAL:	000
104 G A ITNRNT:	
105 MILITARY:	
TOTAL:	
OPERATIONS FOR 12 MONTHS ENDING:	05/20/2021

3. Determine if the annual number of operations for air carriers #100, air taxis #102, military #105, and general aviation #103 plus #104 exceeds thresholds.

Annual air carrier operations: 0_____.Is this 9000 or more Yes____No X___
Annual air taxi operations 800_____. Is this 18,000 or more Yes____No X___
Annual military operations 500_____. Is this 18,000 or more Yes____No X____

Annual general aviation operations_4,000__. Is this 72000 or more Yes____No_X___

4. If you answer "No" on each of the questions above, it is assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airport. Maintain the documention in your Environmental Review Record. You are finished with the evaluation of airport noise for this airport. If you have marked any question in #3 with "Yes," continue to 5.

5. Contact the airport manager, (see blue arrow above) and ask them if the airport has noise contour maps. Are contour maps available?

☐ Yes. Locate your project on the noise contour map. If there are no roads or railroads that are being considered for noise, utilize the information from the contour map to determine if the site is acceptable. If roads or railroads are being considered input the information obtained from the airport noise contours, along with the road and railroad information in the HUD Noise Assessment Guidelines (NAG) or the online tool at http://www.hud.gov/offices/cpd/environment/dnlcalculator.cfm.

☐ No. Construct the approximate DNL contours by using the guidance on page 52 and 53 of the NAG. You will need to obtain the following information from the airport:

1. The number of nighttime jet operations (10pm to 7 am)
2. The number of daytime jet operations (7 am to 10 pm)
3. The flight paths of the major runways.
4. Any available information about expected changes in airport traffic (e.g. will the number of operations increase or decrease in the next 10 to 15 years).

DNL Calculator

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- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	53 Acres - NAL B Current Year
Record Date	12/19/2023
User's Name	Andrea Gievers

Road # 1 Name:	**HWY 64 WEST**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	730	730	730
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	12196	883	1421
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	41	40	59
Calculate Road #1 DNL	59	Reset	

Road # 2 Name:	**S SHILOH ROAD**

Road #2

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑

Effective Distance	930	930	930
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	696	32	72
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	27	24	45
Calculate Road #2 DNL	45	Reset	

Road # 3 Name:	**HWY 64 RAMP**

Road # 3 Name:	HWY 64 RAMP

Road #3

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	455	455	455
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	33	32	51
Calculate Road #3 DNL	51	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○Yes ◉No
Combined DNL for all Road and Rail sources	**60**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate | Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
    - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
    - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
    - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
    - Incorporate natural or man-made barriers. See ***The Noise Guidebook (/resource/313/hud-noise-guidebook/)***
    - Construct noise barrier. See the **Barrier Performance Module (/programs/environmental-review/bpm-calculator/)**

Tools and Guidance

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DNL Calculator

Site ID	53 Acres - NAL B Year 2035
Record Date	12/19/2023
User's Name	Andrea Gievers

Road # 1 Name:	**HWY 64 WEST**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	730	730	730
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	15464	1120	1802
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	42	41	60
Calculate Road #1 DNL	60	Reset	

Road # 2 Name:	**S SHILOH ROAD**

Road #2

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑

Effective Distance	930	930	930
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	376	17	39
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	24	21	42
Calculate Road #2 DNL	42	Reset	

Road # 3 Name:	**HWY 64 RAMP**

Road # 3 Name:	HWY 64 RAMP

Road #3

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	455	455	455
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	33	32	51
Calculate Road #3 DNL	51	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○Yes ◉No
Combined DNL for all Road and Rail sources	**61**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate | Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
    - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
    - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
    - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
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DNL Calculator

Site ID	53 Acres NAL B2 Current Year
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 West**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	873	873	873
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	12196	883	1421
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	40	39	58
Calculate Road #1 DNL	58	Reset	

Road # 2 Name:	**Shiloh Farm Road**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	890	890	890
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	696	32	72
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	27	24	45
Calculate Road #2 DNL	45	Reset	

Road # 3 Name:	**HWY 64 Ramp**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	577	577	577
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	31	30	49
Calculate Road #3 DNL	50	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ Yes ◉ No
Combined DNL for all Road and Rail sources	**59**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
    - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
    - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
    - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
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DNL Calculator

Site ID	53 Acres NAL B2 Year 2035
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 West**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	873	873	873
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	15464	1120	1802
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	41	40	59
Calculate Road #1 DNL	59	Reset	

Road # 2 Name:	**Shiloh Farm Road**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	890	890	890
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	376	17	39
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	25	21	42
Calculate Road #2 DNL	42	Reset	

Road # 3 Name:	**HWY 64 Ramp**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	577	577	577
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	31	30	49
Calculate Road #3 DNL	50	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ Yes ◉ No
Combined DNL for all Road and Rail sources	**60**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
    - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
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DNL Calculator

Site ID	53 Acres NAL E Current Year
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 West**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	945	945	945
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	12196	883	1421
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	39	38	57
Calculate Road #1 DNL	58	Reset	

Road # 2 Name:	**HWY 64 ALT**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	603	603	603
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	1647	41	12
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	34	28	40
Calculate Road #2 DNL	41	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ Yes ◉ No
Combined DNL for all Road and Rail sources	**58**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate | Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

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  - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
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DNL Calculator

Site ID	53 Acres NAL E Year 2035
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 West**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	945	945	945
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	15464	1120	1802
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	40	39	58
Calculate Road #1 DNL	59	Reset	

Road # 2 Name:	**HWY 64 ALT**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	603	603	603
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	1287	32	9
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	33	27	38
Calculate Road #2 DNL	40	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ Yes ◉ No
Combined DNL for all Road and Rail sources	**59**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate | Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

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DNL Calculator

Site ID	53 Acres - NAL F Current Year
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 WEST**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	713	713	713
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	12196	883	1421
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	41	40	59
Calculate Road #1 DNL	59	Reset	

Road # 2 Name:	**HWY 64 ALT**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	825	825	825
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	1647	41	12
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	32	26	38
Calculate Road #2 DNL	39	Reset	

Road # 3 Name:	**HWY 64 RAMP**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	935	935	935
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	28	27	46
Calculate Road #3 DNL	46	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ **Yes** ◉ **No**
Combined DNL for all Road and Rail sources	**60**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

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- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	53 Acres - NAL F Year 2035
Record Date	11/08/2023
User's Name	R Keane Terracon

Road # 1 Name:	**HWY 64 WEST**

Road #1

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	713	713	713
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	15464	1120	1802
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	42	41	60
Calculate Road #1 DNL	60	Reset	

Road # 2 Name: **HWY 64 ALT**

Road #2

Vehicle Type	Cars ☑	Medium Trucks ☑	Heavy Trucks ☑
Effective Distance	825	825	825
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	1287	32	9
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	31	25	36
Calculate Road #2 DNL	38	Reset	

Road # 3 Name:	**HWY 64 RAMP**

Road #3

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	935	935	935
Distance to Stop Sign	0	0	0
Average Speed	55	55	55
Average Daily Trips (ADT)	925	67	108
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	28	27	46
Calculate Road #3 DNL	46	Reset	

Add Road Source | Add Rail Source

Airport Noise Level	0
Loud Impulse Sounds?	○ **Yes** ◉ **No**
Combined DNL for all Road and Rail sources	**61**
Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
    - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
    - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
    - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
    - Incorporate natural or man-made barriers. See ***The Noise Guidebook (/resource/313/hud-noise-guidebook/)***
    - Construct noise barrier. See the **Barrier Performance Module (/programs/environmental-review/bpm-calculator/)**

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)

NAL	Current Year DNL (dB)	Year 2035 DNL (dB)
B	60	61
B2	59	60
E	58	59
F	60	61

ATTACHMENT 14:

Sole Source Aquifers

U.S. EPA Sole Source Aquifers Map

U.S. EPA Sole Source Aquifers Map

4/17/2023, 4:12:52 PM

1:9,244,649

Sole_Source_Aquifers

0 65 130 260 mi

0 105 210 420 km

Esri, HERE, Garmin, NGA, USGS, NPS

ATTACHMENT 15:

EO 11990 Wetlands Protection Determination

Princeville 53-Acre Site Redevelopment Project

Executive Order (EO) 11990 Protection of Wetlands Determination

Infrastructure Recovery Program

December 22, 2023

Introduction & Overview

The purpose of EO 11990 Protection of Wetlands is "to avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative." This determination contains the analysis prescribed by 24 CFR Part 55.

This proposed action involves U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Program – Mitigation (CDBG-MIT) funding for Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. The analysis that follows focuses on wetland impacts, as there is one incidental wetland located on the Subject Property. Based on the Town's historic frequent flooding that threatens public safety and damages property, location outside of floodplain, need for the proposed action and use, and other case characteristics described herein, it is concluded that there is a reasonable basis to proceed with funding for this proposed action despite this incidental wetland. The HUD CDBG-MIT funding is administered through the North Carolina Office of Recovery and Resiliency (NCORR) Infrastructure Recovery Program which is developing sustainable and resilient communities. Thus, alternatives preventing or impeding the development of sustainable and resilient communities are not considered reasonable alternatives.

Description of Proposed Action and Land Use

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and municipal facilities were also damaged or displaced severely limiting the extent and reliable delivery of those services.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing (Apartments [unit #s to be determined], Townhouses [22 units], and Single-Family Homes [15 units]), a stormwater retention pond, and community open space (**Appendix 1**). The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed action includes engineering designs, site surveys, and geotechnical investigations; construction

of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure; relocation of utility poles; and landscaping. Proposed stormwater collection systems include wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30-inch RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the environmental review record (ERR) when received from the permitting agencies. The proposed action site plans are included in **Appendix 1**.

Proposed location

The proposed site for construction (Subject Property) consists of two parcels totaling approximately 53 acres located along U.S. Highway 64 West between South Main Street (U.S. Highway 64 Alternate East) and South Shiloh Farm Road, and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886 (**Appendix 1**). According to the Edgecombe County Tax Map, the Town of Princeville owns the western Parcel ID #474714756400 which is approximately 29.96 acres and the eastern Parcel ID #474724794700 which is approximately 23 acres, and the privately-owned 1029 Lynch Drive, Parcel ID #474725155200, is approximately 0.32 acres (**Appendix 1**). There will also be work in the public rights-of-way for stormwater infrastructure; water and sanitary sewer connections; ingress/egress access points and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30-inch reinforced concrete piping (RCP) along U.S. Highway 64 West. (*See,* **Attachment 1:** Hurricanes Matthew and Floyd Extent Map from June 2017 Meeting in *Princeville 53-Acre Site Redevelopment Project Environmental Assessment [EA] ERR*).

Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel 3720474600J effective on 11/3/2004, the Subject Property is located in Zone X. A Preliminary FIRM (PFIRM) is not available for the vicinity of the Subject Property according to the FEMA Map Service Center. The Subject Property is not located within a FEMA-designated regulatory floodway. The Town of Princeville (370318K) is a participating community in good standing in the regular program of the National Flood Insurance Program (NFIP). Since the Subject Property is located in Zone X, outside of a Special Flood Hazard Area (SFHA), flood insurance is not required. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the NFIP. Thus, the proposed action does not trigger compliance with EO 11988 Floodplain Management and 24 CFR 55 for modification of floodplain.

Applicable Regulatory Procedure Per EO 11990

The proposed action corresponds with a noncritical action not excluded under 24 CFR §55.12(b) or (c). The regulations under 24 CFR 55 apply to all HUD (or responsible entity) actions that are subject to potential harm by location in floodplains or wetlands. According to 24 CFR 55.1(a)(3), "[c]overed actions include the proposed acquisition, construction, demolition, improvement, disposition, financing, and use of properties located in floodplains or wetlands for which approval is required either from HUD, under any applicable HUD program, or from a responsible entity authorized by 24 CFR part 58." Funding is permissible for the use at a parcel with incidental wetland if the proposed action is processed under 24 CFR

§55.20 and the findings of the determination are affirmative to suggest that the proposed action may proceed.

Based on information from the U.S. Army Corps of Engineers (USACE) correspondence and Preliminary Jurisdictional Determination (PJD) Request (**Appendix 1**), there will be "new construction" on a parcel containing an approximately 0.75-acre USACE verified, delineated Freshwater Forested/ Shrub Wetland (PFO1A). Due to the use of HUD funds, compliance with EO 11990 through completion of the eight-step process under 24 CFR 55.20 is required for projects with potential wetland impacts. Thus, in accordance with the decision-making process set forth in 24 CFR Part 55, the following analysis examines each step in an EO 11990 Protection of Wetlands Determination process.

***Step 1.* Determine Whether the Proposed Action Results in New Construction in Wetlands.**

According to the USACE, there is "one jurisdictional wetland identified in the southwestern corner of the site." The wetland is an approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A) (**Appendix 1**). The proposed action involves "new construction" in wetlands because the Subject Property contains an incidental wetland and the proposed action involves new construction of infrastructure for a site that will ultimately be redeveloped with municipal and commercial facilities and residential housing. There are no other wetlands, including HUD-defined wetlands, located on the Subject Property. The NC Department of Environmental Quality (DEQ) commented through the State Environmental Clearinghouse that compliance is required with T15A 02H.0500 Certifications whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR Part 323. Additionally, NC DEQ noted that if wetland or stream impacts are proposed, then the proposed action must comply with a USACE 404 permit, 401 Water Quality Certification authorization, and a riparian buffer authorization. As designed, the proposed construction will not encroach into the wetland. The NC DEQ Division of Water Resources (DWR) reviewed the proposed action including two onsite ephemeral streams and determined them to not be at least intermittent or not present. The NC DEQ DWR determined that the proposed action is not subject to the CWA Section 401 permit and Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no direct or indirect, temporary or permanent wetland impacts are proposed, then Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required.

Best Management Practices (BMPs) for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. The proposed action's activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the *Princeville 53-Acre Site Redevelopment Project EA ERR* when received from the permitting agencies.

***Step 2.* Initiate Public Notice for Early Review of Proposal.**

Because the proposed action involves "new construction" on a parcel containing a wetland, NCORR published an early notice that allowed for public and agency input on the decision to provide funding for construction and development activities. Supporting documentation incorporated into the early notice was posted for public review to the NCORR ReBuild NC website (https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews) and included proposed action location maps with boundary shown, Edgecombe County parcel maps and information, site plans, USFWS NWI Map with parcel boundary shown, and USACE Correspondence and PJD Request and Supporting Determination including the NC

DEQ DWR Determination Letter. The early public notice and 15-day comment period is complete. No new, substantive public comments were received. FEMA Region IV noted that there was FEMA Building Resilient Infrastructure and Communities (BRIC) Grant funding awarded for the proposed action for Phase I (designs), and Phase II (construction) requires a National Environmental Policy Act (NEPA) Environmental Assessment. NCORR is coordinating review efforts with FEMA.

The early notice and corresponding 15-day public comment period started on November 17, 2023, with the "Early Notice and Public Review of a Proposed Activity in a Wetland" being published in the Rocky Mount Telegram newspaper and the 15-day period expiring on December 4, 2023. The notice targeted local residents within the community. The notice was also posted at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews and sent via Federal Express and email to the following federal and State agencies on November 17, 2023: HUD NC Field Office; FEMA Region IV; U.S. Environmental Protection Agency (EPA); U.S Fish and Wildlife Service (USFWS); USACE; and NC State Environmental Clearinghouse. The notice was also sent to Edgecombe County and the Town of Princeville. Project information has been sent to the NC State Historic Preservation Office (SHPO), Catawba Indian Nation, and Tuscarora Nation for review and comment under Section 106 of the National Historic Preservation Act of 1966 (NHPA) (*See,* **Attachment 12** in *Princeville 53-Acre Site Redevelopment Project EA ERR*). (See **Appendix 2** for the early notice distributed to these agencies, the newspaper publication affidavit, distribution list, and comments received).

***Step 3.* Identify and Evaluate Practicable Alternatives to Locating the Proposed Action in a Wetland.**

The North Carolina Infrastructure Recovery Program empowers the State's most impacted communities with the technical expertise needed to develop thorough and implementable reconstruction plans to build physically, socially, and economically resilient and sustainable communities.

Numerous alternative and concerted projects have been considered to address Princeville's historic flooding over the years. (*See*, Town's Final Comprehensive Plan.) As a result of Hurricane Floyd in 1999, Princeville experienced catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. Up to twenty feet of water stood in Princeville for nearly 10 days until river levels subsided enough that the floodwaters drained or could be pumped from the Town. In the aftermath of Hurricane Floyd, President Clinton issued Executive Order 13146, which established a President's Council on the Future of Princeville, North Carolina to consider "…the unique historic and cultural importance of Princeville in American history; the views and recommendations of the relevant State and local governments, the private sector, citizens, community groups and non-profit organizations, on actions that they could take to enhance the future of Princeville and its citizens; and, agency assessments and recommendations to repair and rebuild Princeville, and to the extent practicable, protect Princeville from future floods." The President's Council's report was submitted in August 2000, and recommended quickly bringing the citizens of Princeville home while rebuilding toward a more disaster-resistant community.

A five-day Princeville Community Design Workshop was held on August 25-29, 2017 as an intensive design-based event in addition to Town open houses on July 21, July 29, and August 16, 2017. The Princeville Community Design Workshop and associated field visits brought together design experts from across the country to identify options for a 53-acre parcel of vacant land outside the 100-year floodplain. The open houses were held for Princeville residents in order to provide them with the time and space needed to talk in depth with UNC Coastal Resilience Center's Hurricane Matthew Disaster Recovery and Resilience Initiative (HMDRRI) Team members about greenspace, affordable housing, infrastructure, mitigation, health issues, and other recovery topics important to them. The meetings also served to create the Town's vision for the recovery plan and to identify associated goals. This resulted in the Princeville

Community Floodprint and the Princeville Recovery Plan. The Town staff worked with the Municipal Planning Team at Stewart, Inc. to craft a new Town comprehensive plan that built on these efforts and engaged a broad spectrum of the community to develop implementable strategies towards the community's goals. The Princeville Recovery Plan and the Coastal Resilience Center website discuss the workshop, open houses, alternatives, and community input received.

According to the Princeville Recovery Plan (pgs. 24-26), there are three alternatives including 1) *Individual Actions* (residential buyout and elevation), 2) *Internal Shift* (proposed action), and 3) *Community-wide Relocation* ("new town" location out of floodplain may include expansion of 53-acre site) that can be compared to the seven alternatives developed by FEMA. During the Town open houses, these seven alternatives (elevation only, rebuild with elevation, buyout with demolition, multiple strategies, strategic retreat, no action, relocation [proposed action] and other) were offered for consideration (Princeville Recovery Plan, pgs. 58-61). The Town's Final Comprehensive Plan lists thirteen ongoing recovery projects since 2017, including 1) stormwater repair project; 2) floodgate project; 3) USACE levee expansion, extension, and associated improvements; 4) Town Hall rehabilitation and wet floodproofing; 5) senior center reconstruction; 6) museum upgrades and interactive space; 7) Heritage Park rehabilitation and walking trail; 8) farmers' market construction; 9) *53-acre development*; 10) 88-acre land use planning; 11) residential structures' elevation; 12) Floodprint project's resilient redevelopment blueprint; and 13) water and wastewater system upgrades.

The evaluation of identified alternatives included their ability to address displaced residents, interrupted municipal services, business development, cost-effectiveness, ease of implementation, financial and economic costs, and overall flood hazard protection. Numerous plans and studies have also evaluated various strategies to understand and address the flood damage prevention and recovery effort in Princeville. These include the 2004 Hazard Mitigation Plan, 2014 USACE Integrated Feasibility Report and Environmental Assessment, 2018 NCEM/ NC DOT Tar River Basin Flood Analysis and Mitigation Strategies Study, 2020 NCSU Community Floodprint, 2018 Princeville Recovery Plan, and many others (*see*, Town's Final Comprehensive Plan, pgs. 19-20). The NCEM/NC DOT study evaluated twelve strategies for flood mitigation (new detention structures, retrofit of existing detention structures, offline storage, channel modification, new embankment structures, existing levee repair or enhancement, roadway elevation or clear spanning of floodplain, large scale flood-proofing, elevation/ acquisition/ relocation, land use strategies, river corridor greenspace, and wildlife management). This study found that *elevation/ acquisition/ relocation* was the most effective strategy evaluated because it has the shortest timeframe of an estimated 3 to 5 years, the scalability of funding allocation, ability to target the most vulnerable structures and communities, best benefit/cost ratio of the options considered, and most positive environmental impact. However, according to the Town's FEMA BRIC Application (pg. 6), "[e]levation in place is a relatively costly alternative that results in less than desirable aesthetics, unwieldy implementation, and does not mitigate infrastructure and community disruptions against flood events, i.e., impacts to transportation, power, water, and sewerage disposal." Additionally, elevation doesn't address the fact that even elevated structures can be surrounded by floodwater and inaccessible by emergency services or residents during and after storm events. According to the NCEM/NC DOT analysis, *relocation* was determined the most cost effective mitigation strategy in dealing with repetitive flood losses in the Tar River Basin (Town's FEMA BRIC Application, pg. 6).

The main advantage of the proposed action is the retention of most of the population within the Town. Many of the Town of Princeville's residents have been displaced due to historic flooding and storm events with some housing remaining vacant since Hurricane Floyd. Before Hurricane Matthew, the Town of Princeville had a "low rental vacancy rate, indicating a need for additional rental housing stock. The storm exacerbated this problem and two years after Hurricane Matthew, public housing units are still closed, forcing residents to find housing elsewhere. Princeville's average housing unit value is approximately half that of the state's, and below that of Edgecombe County. Over half of the units were built between 1990

and 2009, with no new units thereafter, indicating a slowdown in new development" according to the Princeville Recovery Plan (pg. 72). According to the Town's Final Comprehensive Plan (pg. 10), the "Town is hopeful that residents displaced from flooding will return and that new housing that is planned will allow the Town to grow in the future." The Subject Property provides an ideal location for replacement public housing which is a part of the vision for this multi-phased project.

According to the Princeville Recovery Plan (pgs. 38-39), a key factor shaping the Recovery Plan includes "[i]f citizens are moved via a relocation scenario, the people of Princeville will be able to focus on future-oriented investments in their homes and community, not the recurring cost of flood damage, disruption, and misery. On dry land, philanthropic organizations will be able to boost Princeville's exhibition of history and culture–including a performance venue. Commercial development would be possible as well, which represents a major shift from the business exodus after Hurricane Floyd nearly twenty years ago." According to the Princeville Recovery Plan (pg. 39), "[p]urposeful relocation is considered a best practice in floodplain management. A standout case is Valmeyer, Illinois, which was relocated to higher ground in the 1990s after major floods on the Mississippi River. That town is about the same size as Princeville and the relocation distance is approximately 2 miles." The project incorporated a wide variety of funding sources, including FEMA and HUD.

There are numerous financial and economic costs to be considered in evaluating the alternatives identified including the proposed action. According to the Princeville Recovery Plan (pgs. 27-28), an additional consideration is the "long-term recurring cost of disaster management due to floods at the historic rate or an increased rate of frequency and/or intensity due to climate change." Also, the "low likelihood of business investment within or adjacent to a high-risk floodplain, contrasted with a low-risk site where private sector investments could be encouraged" (pg. 30). The reality is that "[d]ue to continuing threats of serious flooding in Princeville, the land is not suitable for commercial or industrial development at any significant scale. Realistically, the nearly total exodus of commerce from Princeville after Hurricane Floyd in 1999 cannot be reversed unless the flood risk is significantly reduced. Federal agencies have advised the town's residents to prepare for more flooding" (Princeville Recovery Plan, pg. 33). Furthermore, "FEMA is required by Congress to also consider what would happen to Princeville and its citizens if FEMA monies were not used for mitigation projects in Princeville" according to the Princeville Recovery Plan (pg. 60). The President's Council's report, EOs 13146 and 12898, Princeville Community Design Workshop, Town open houses and meetings, plans, studies, and community and agency input were used to determine the best and most feasible flood damage prevention solutions for the future of Princeville. According to the Princeville Recovery Plan (pg. 19), "[a]n improved physical arrangement should improve community functions, improve energy conservation, heighten governmental efficiency, and enhance environmental quality—all of which will boost the quality of life for all residents, allow business and industry to thrive, and assure a sustainable future." Thus, the Town of Princeville has selected the proposed action to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding.

The Subject Property was chosen as the most suitable for the proposed action due to its location outside of 100-year floodplain, close proximity to the historic town center, existing nearby infrastructure and utility connections, community support, suitability for mixed-use development with U.S. Highway 64 frontage, and the fact that the Town currently owns the 53-acre site. A different project location is not feasible since it would most likely require additional funding for the acquisition of a new site. In 2017, the 53-acre site was acquired by the State (NCEM) and deeded to the Town, providing the most logical and cost-effective site for relocation of residents and commercial and municipal facilities within Town limits. The proposed 53-acre site for development is located less than two miles from the historic town center where currently displaced Town residents reside. The Subject Property is located outside of floodplain and was designed not to encroach into the wetland onsite.

With the "No Action" Alternative, the Town would have to endure the continued threat to the public health and safety and property damage to residences and commercial and municipal facilities from future storm events and repetitive flooding. Additionally, municipal services would continue to be interrupted and unreliable during these events. Past hurricanes have historically resulted in flooding most of the Town and the displacement of the majority of the Town's residents. The "No Action" Alternative would not provide long-awaited relief to the Town of Princeville but instead would leave the Town vulnerable to future storm events and flooding. Subjecting the Town, its residents, and business owners to the physical, emotional, and financial damages from this vulnerability would create an undue burden on the future of the Town of Princeville. Alternatively, relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding would reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating the Town's plan and vision for a safer and more sustainable and successful "Greater Princeville."

The above-identified alternatives will be re-evaluated in response to public comments received.

***Step 4.* Identify and Evaluate Potential Direct and Indirect Impacts Associated with the Occupancy or Modification of Wetland and the Potential Direct and Indirect Support of Wetland Development that Could Result from Proposed Action.**

The proposed action will result in no direct or indirect impacts to an approximately 0.75-acre USACE verified, delineated Freshwater Forested/ Shrub Wetland (PFO1A) located on the Subject Property. There are no other wetlands located on the Subject Property. The NC DEQ DWR reviewed two onsite ephemeral streams and determined them to not be at least intermittent or not present. As designed, the proposed construction will not encroach into the wetland. The NC DEQ DWR determined that the proposed action is not subject to the CWA Section 401 permit and Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no direct or indirect, temporary or permanent wetland impacts are proposed, then Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required.

Wetland Evaluation

The purpose of wetland evaluation is to consider factors relevant to a proposed action's potential effect on the survival and quality of wetlands. These factors should include public health (including water supply and water quality), maintenance of natural systems, cost increases attributed to construction in wetland, and other uses of wetland in the public interest. Since the proposed action will avoid the wetland and incorporate BMPs, negative impacts to wetland functions and values are not anticipated to this approximately 0.75-acre wetland located on the Subject Property. The proposed action's potential to impact wetland functions and values is evaluated further below.

Public Health, Safety, and Welfare, Including Water Supply, Quality, Recharge, and Discharge; Pollution; Flood and Storm Hazards and Hazard Protection; and Sediment and Erosion

Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. The natural and beneficial functions and values related to hydrology and water quality include slowing down stormwater runoff, providing surface and subsurface retention, and filtering out pollutants. Further, wetlands provide flood risk reduction benefits by slowing runoff and storing flood water.

Given the Town's geography and geology, Princeville has been subject to frequent flooding, resulting in significant human suffering and physical damages, as well as social, economic, and cultural loss. The Town's current elevation is located within the Tar River floodplain and, as a result, the Town historically has had severe flooding and damage occur since its founding circa 1865. Between the years of 1800 and 1958 the Tar River flooded the area seven times. During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and municipal facilities were also damaged or displaced severely limiting the extent and reliable delivery of those services. The Town Hall, Princeville Elementary School, and the Princeville Volunteer Fire Department were completely destroyed. As a result of Hurricane Floyd in 1999, Princeville experienced catastrophic flooding and the damage or destruction of nearly all 1,000 residential structures. Up to twenty feet of water stood in Princeville for nearly 10 days until river levels subsided enough that the floodwaters drained or could be pumped from the town. The reality is that "[d]ue to continuing threats of serious flooding in Princeville, the land is not suitable for commercial or industrial development at any significant scale. Realistically, the nearly total exodus of commerce from Princeville after Hurricane Floyd in 1999 cannot be reversed unless the flood risk is significantly reduced. Federal agencies have advised the town's residents to prepare for more flooding" (Princeville Recovery Plan, pg. 33). Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Therefore, the proposed action should not increase impacts to *public health, safety, and welfare*, but rather aims to provide *flood and storm hazard protection* for public health, safety and welfare in the Town during storm events.

The natural wetland functions as a collection point for stormwater for the Subject Property. The natural and beneficial functions and values related to hydrology and water quality include slowing down stormwater runoff, providing surface and subsurface retention, and filtering out pollutants. The proposed action will have no direct or indirect impacts to the natural wetland which will continue to provide these functions and values. Also, an onsite stormwater retention pond for the proposed action will assist with reducing potential flooding on the Subject Property and in the immediate area. Additional stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30-inch RCP along U.S. Highway 64 West. According to a University of Florida/ IFAS article (https://edis.ifas.ufl.edu/publication/SS695), "[s]tormwater ponds' primary purpose is flood control, and they are designed to intercept stormwater runoff (precipitation that runs off our buildings, roads, parking lots, and sidewalks), but they also provide other services like a place for sediment to settle out of the water column, habitat for wildlife, recreational opportunities like birding, and pollutant removal. Overall, stormwater ponds help mitigate the impacts of urban stormwater runoff while protecting our natural waterways from nutrient loading, erosion, sedimentation, and algal blooms." Further, there are no 100-year or 500-year floodplain or regulatory floodway present on the Subject Property.

Water supply wells were not identified at the Subject Property. If any wells are discovered on the proposed action site, then well abandonment must be completed in accordance with Title 15A. Subchapter 2C.0100. The Subject Property is serviced by the Edgecombe County Water and Sewer and there is adequate public water supply and water and sewer infrastructure available for the proposed action. The closest water main connection is a 12-inch main located approximately 25 feet from the Subject Property. The closest sewer main connection is an 8-inch main at 8 feet deep located approximately 500 feet from the Subject Property. The proposed action includes the installation of a sewer lift station, sewer force mains, gravity sewer piping, backflow preventers, stormwater collection systems, and connections to existing infrastructure. The

proposed action will not include the discharge of sewer to surfaces of the Subject Property or surrounding properties. According to the Town's FEMA BRIC Application (pg. 6), the new infrastructure will be maintained by Edgecombe County as the Town of Princeville is officially considered District 6 in the County's water and sewer system.

According to the NC DEQ comment, plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/ Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq. In addition, all public water supply systems must comply with State and federal drinking water monitoring requirements. Further, NC DEQ notes that any relocation of existing water lines will require plans to be submitted to the DWR/ Public Water Supply Section prior to construction. All applicable federal, State and local permits will be obtained for the proposed action prior to construction and activities will comply with their requirements and conditions. Therefore, the proposed action is not anticipated to have an adverse impact on water supply quality or capacity onsite and in the surrounding area.

Best management practices for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Since the proposed action will avoid the wetland and incorporate these measures, no indirect wetland impacts or negative impacts to wetland functions and values are anticipated. The proposed activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work. This will also ensure that water quality, the ability to maintain water quality and capacity, and groundwater recharge are not impacted by the proposed action.

Maintenance of Natural Systems, Including Conservation and Long-Term Productivity of Existing Flora and Fauna; Species and Habitat Diversity and Stability; Natural Hydrologic Function; Wetland Type; Fish; Wildlife; Timber; and Food and Fiber Resources

An onsite stormwater pond will be built and provide stormwater retention functions in addition to the natural functions of the natural, isolated, approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A) that will remain intact. These ponds can also provide wildlife habitat and native plants will be utilized in the site's landscaping design. Additional BMPs include erosion and sedimentation control such as silt fencing which will be utilized during construction and green open spaces incorporated. Thus, the proposed action has been designed and BMPs incorporated to have the minimal impacts on these functions and values.

For this proposed action, the USFWS Raleigh Ecological Services' online 10-step project review process was completed. The proposed action was determined to have "No Effect" on proposed/ listed species and/ or proposed/ designated critical habitat except for "May Affect, Not Likely to Adversely Affect" the Northern Long-eared Bat, proposed Tricolored Bat, and Monarch Butterfly determinations, and a "No Eagle Act Permit Required" for Bald Eagles. It is anticipated that effects on migratory birds will be limited because a small number of trees will be removed during construction, and any migratory birds in the area will temporarily leave the area during construction. The 53-acre site is currently a mostly undeveloped field/ recently logged land containing dense vegetation with a few trees remaining and some new growth, smaller trees. The site plans identify approximately 12 trees that will be removed from the 53-acre site and 5 trees from the residential 1029 Lynch Drive parcel. None of the above-listed species or potential habitat were observed during the site visits. There are not sufficient streams or wetland to provide suitable habitat for the one fish (Carolina Madtom) and three clams (Atlantic Pigtoe, Green Floater, and Yellow Lance) identified in the IPaC Official Species List. In addition, there are no proposed activities in the onsite wetland

(**Appendix 1**). A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on November 2, 2023. No official comment has been received by USFWS. The Subrecipient will update this determination annually for multi-year activities.

According to the Farmland Conversion Impact Rating Form AD-1006 for the proposed action, the Subject Property had a combined 128.56 total points. According to the Farmland Protection Policy Act of 1981 (FPPA) Manual Subpart B Program Activities and Requirements, 523.33 Site Selection and Alternatives (A) [f]or site-specific projects, if the total of points according to the land evaluation and site assessment (LESA) criteria is less than 160, no other alternatives need be considered. According to FPPA, 7 CFR 658.2 Definitions "'Farmland' does not include land already in or committed to urban development or water storage….Farmland 'committed to urban development or water storage' includes all such land that receives a combined score of 160 points or less from the land evaluation and site assessment criteria." Under Section 523.10(B) Lands Not Subject to Provisions of FPPA, [t]he following lands are not covered by the act: (1) Lands that receive a combined score of less than 160 points from the LESA criteria. The Subject Property has been determined to be not a highly-valued agricultural parcel and exempt from the FPPA.

The proposed action designs have been completed in accordance with agency input to minimize impacts to the environment and community. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. Additionally, the proposed action can also implement the following voluntary conservation measures to benefit wildlife and, in particular, pollinators: plant native trees, shrubs, and flowering plants in landscaping, use plants that bloom spring through fall and remove/control invasive plant species present. The proposed action activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Permits required for this proposed action, such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000), shall be obtained before commencing work and appended to the ERR when received from the permitting agencies. Thus, as designed and with BMPs implemented, the proposed action will have minimal to no effect on living resources such as natural systems such as flora and fauna, habitat diversity, timber, and food and fiber resources during construction and operation.

Cost Increases Attributed to Wetland-Required New Construction and Mitigation Measures to Minimize Harm to Wetlands that May Result from Such Use

The proposed action has been designed to result in no direct or indirect, temporary or permanent impacts to an approximately 0.75-acre USACE verified, delineated Freshwater Forested/ Shrub Wetland (PFO1A) located on the Subject Property. There are no other wetlands located on the Subject Property. The NC DEQ DWR determined that the proposed action is not subject to the Clean Water Act Section 401 permit and Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes. Therefore, since no direct or indirect wetland impacts are proposed, then Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required. Thus, there are no identifiable costs associated with the incidental wetland. Furthermore, the 53-acre site was acquired by the State (NCEM) and deeded to the Town, providing the most logical and cost-effective site for relocation of residents and commercial and municipal facilities within Town limits.

Other Uses of Wetland in the Public Interest, Including Recreational, Scientific, and Cultural Uses

The natural, isolated, approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A) will remain intact because the proposed action has been designed so as to not encroach into the wetland. Further, no direct or indirect wetland impacts are proposed or anticipated.

According to the Town of Princeville website, "**Princeville, for much of its history, has been so concerned about survival that historic preservation has been almost impossible**" (emphasis added). As part of the 24 CFR 58 environmental review, the NC SHPO, Catawba Indian Nation, and Tuscarora Nation were consulted regarding historic properties of religious and cultural significance in the area that could be affected by the proposed action. On December 4, 2023, the NC SHPO responded that the proposed action will have no effect on historic properties. On December 4, 2023, the Catawba Indian Nation's THPO responded that the "Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and/ or human remains are located during the ground disturbance phase of this project." On November 1, 2023, NCORR consulted with the Tuscarora Nation for discussion of historic properties in the proposed project area that may have religious and cultural significance. A response has not been received but will be included in the *Princeville 53-Acre Site Redevelopment Project EA ERR* when received. The SHPO, Catawba Indian Nation, and Tuscarora Nation Section 106 review and consultation documentation is included in **Attachment 12** in *Princeville 53-Acre Site Redevelopment Project EA ERR.* Additionally, community open space will be provided onsite for the residents' recreation. Thus, the proposed action does not have any foreseeable impact on recreational, scientific, or cultural uses of this small, onsite wetland.

***Step 5.* Where Practicable, Design or Modify the Proposed Action to Minimize the Potential Adverse Impacts to and from the Wetland and to Restore and Preserve its Natural and Beneficial Functions and Values.**

Wetlands are beneficial by providing diverse wildlife habitat, flood and erosion control, surface water quality maintenance, groundwater recharge, and educational, scientific, cultural, and recreational opportunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed.

This proposed action involves Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. The proposed action will avoid the wetland, leaving it fully intact, and incorporate best management practices for erosion and sedimentation control such as silt fencing utilized during construction, green open spaces incorporated, native plants used in landscaping and site restoration, and a proposed onsite stormwater retention pond installed. The proposed activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work and appended to the *Princeville 53-Acre Site Redevelopment Project EA ERR* when received from the permitting agencies. Thus, no direct or indirect negative impacts to wetland functions and values are anticipated.

***Step 6.* Reevaluate the Alternatives and Proposed Action.**

Numerous alternative and concerted projects have been considered to address Princeville's historic flooding over the years. (*See*, Town's Final Comprehensive Plan.) The President's Council's report, EOs 13146 and 12898, Princeville Community Design Workshop, Town open houses and meetings, plans, studies, and community and agency input were used to determine the best and most feasible flood damage prevention solutions for the future of Princeville. The evaluation of identified alternatives included their ability to address displaced residents, interrupted municipal services, business development, cost-effectiveness, ease of implementation, financial and economic costs, and overall flood hazard protection. The main advantage of the proposed action was determined to be the retention of most of the population within the Town. The Subject Property was chosen as the most suitable for the proposed action due to its location outside of 100-year floodplain, close proximity to the historic town center, existing nearby infrastructure and utility connections, community support, suitability for mixed-use development with U.S. Highway 64 frontage, and the fact that the Town currently owns the 53-acre site. A different project location is not feasible since it would most likely require additional funding for the acquisition of a new site. With the "No Action" Alternative, the Town's residences and commercial and municipal facilities will have to endure the continued threat to the public health and safety and property damage from future storm events and repetitive flooding. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating the Town's plan and vision for a safer and more sustainable and successful "Greater Princeville." Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. The proposed action will serve to provide stability through a safer and more sustainable location for Town residents, growth for existing and future commercial enterprises, and delivery of reliable and uninterrupted Town municipal services. Thus, the Town of Princeville has selected the proposed action to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding.

Implementation of the proposed action will comply with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Permits required for this proposed action shall be obtained before commencing work and appended to the *Princeville 53-Acre Site Redevelopment Project EA ERR* when received from the permitting agencies. The impacts of these alternatives will be re-evaluated in response to any public comments received.

***Step 7.* Issue Findings and Public Explanation.**

It is the finding of this report that there is no better alternative than to provide funding for the Princeville 53-Acre Site Redevelopment Project. The President's Council's report, EOs 13146 and 12898, Princeville Community Design Workshop, Town open houses and meetings, plans, studies, and community and agency input were used to determine the best and most feasible flood disaster prevention solutions for the future of Princeville. Without the proposed action, the Town of Princeville would have to redevelop and re-evaluate options to assist its residents and community to be protected from future storm damage and flooding. Meanwhile, the Town would have to endure the continued threat to the public health and safety and property damage to residences and commercial and municipal facilities from future storm events and repetitive flooding. Additionally, municipal services would continue to be interrupted and unreliable during such events. Subjecting the Town, its residents, and business owners to the physical, emotional, and financial damages from this vulnerability would create an undue burden on the future of the Town of Princeville.

A final notice, formally known as "Final Notice and Public Explanation of a Proposed Activity in Wetland" was published in accordance with 24 CFR 55. However, this notice was combined with the Notice of Finding of No Significant Impact (FONSI) and Notice of Intent to Request Release of Funds (NOI-RROF) for a 15-day comment period. The 15-day comment period started with the combined notice publishing in the Rocky Mount Telegram newspaper on December 23, 2023, and expires on January 8, 2024. The notice was also posted at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews and sent via Federal Express and email to the following state and federal agencies on December 22, 2023: HUD NC Field Office; FEMA; EPA; USFWS; USACE; and NC State Environmental Clearinghouse. The notice was also sent to Edgecombe County and the Town of Princeville. Project information has been sent to the NC SHPO, Catawba Indian Nation, and Tuscarora Nation for review and comment under Section 106 of the NHPA (*See,* **Attachment 12** in *Princeville 53-Acre Site Redevelopment Project EA ERR*). (See **Appendix 3** for the final notice distributed to these agencies, the newspaper publication affidavit [to be added after publication], distribution list, and comments received [to be added after end of comment period]). Any comments received will be addressed, if significant, and added to the EA. If modifications result from public comment, these will be made prior to proceeding with the submission of a request for release of funds.

Step 8. **Implementation and Continuing Responsibility of the Responsible Entity and Recipient.**

NCORR is the responsible entity and will provide educational materials, when available. It is acknowledged there is a continuing responsibility by the responsible entity to ensure, to the extent feasible and necessary, compliance with the Steps herein.

APPENDIX 1

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT

EARLY NOTICE WETLANDS MAPS

- **Proposed Project Location Maps and Site Plans**
- **National Wetlands Inventory (NWI) Map**
- **USACE Correspondence and Preliminary Jurisdictional Determination (PJD) Request and Supporting Determination including NC DEQ DWR Determination Letter**

Proposed Project Location Maps and Site Plans

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

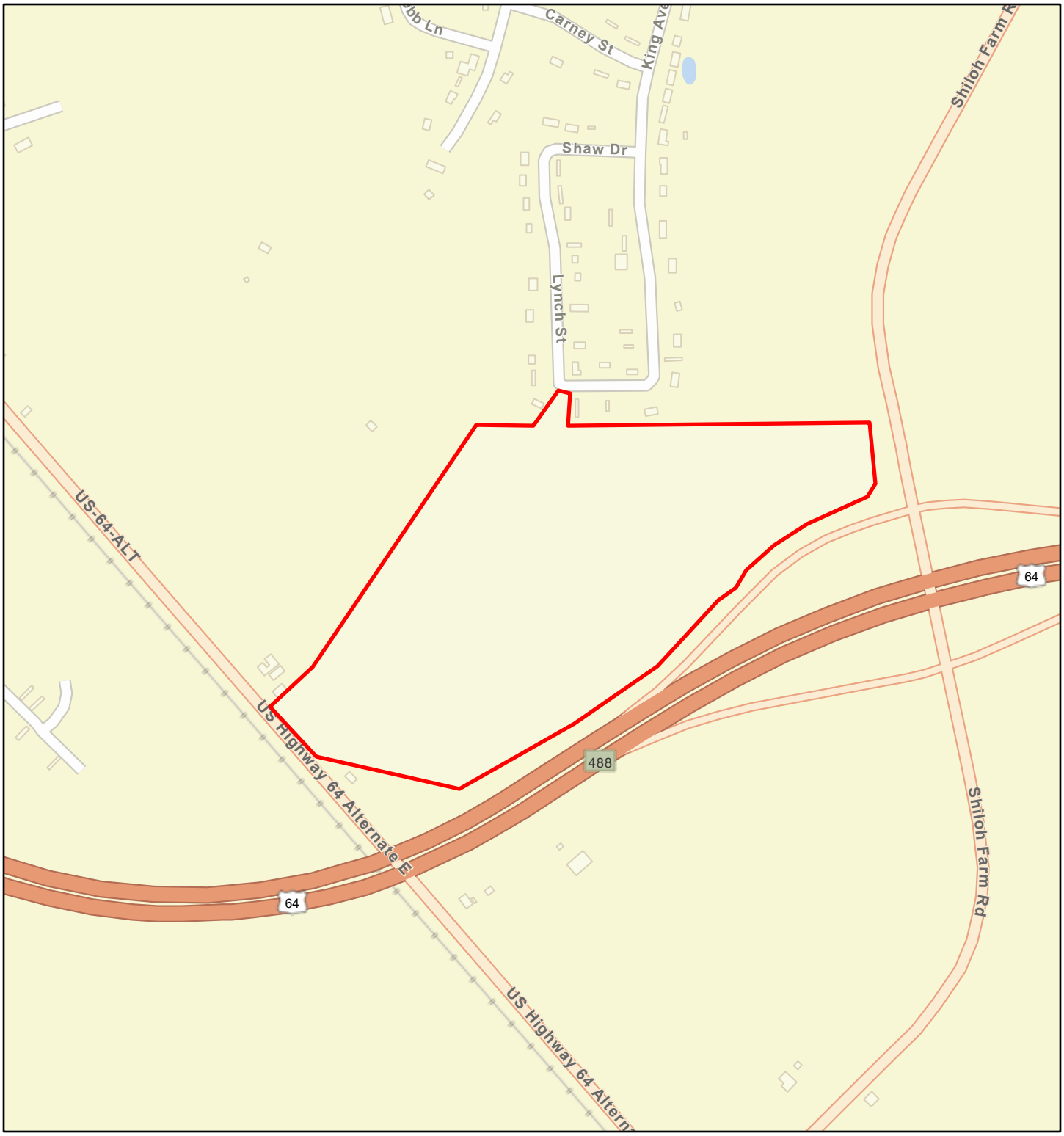
1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Street Map



October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Princeville 53-Acre Site Redevelopment - Topographic Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:18,056

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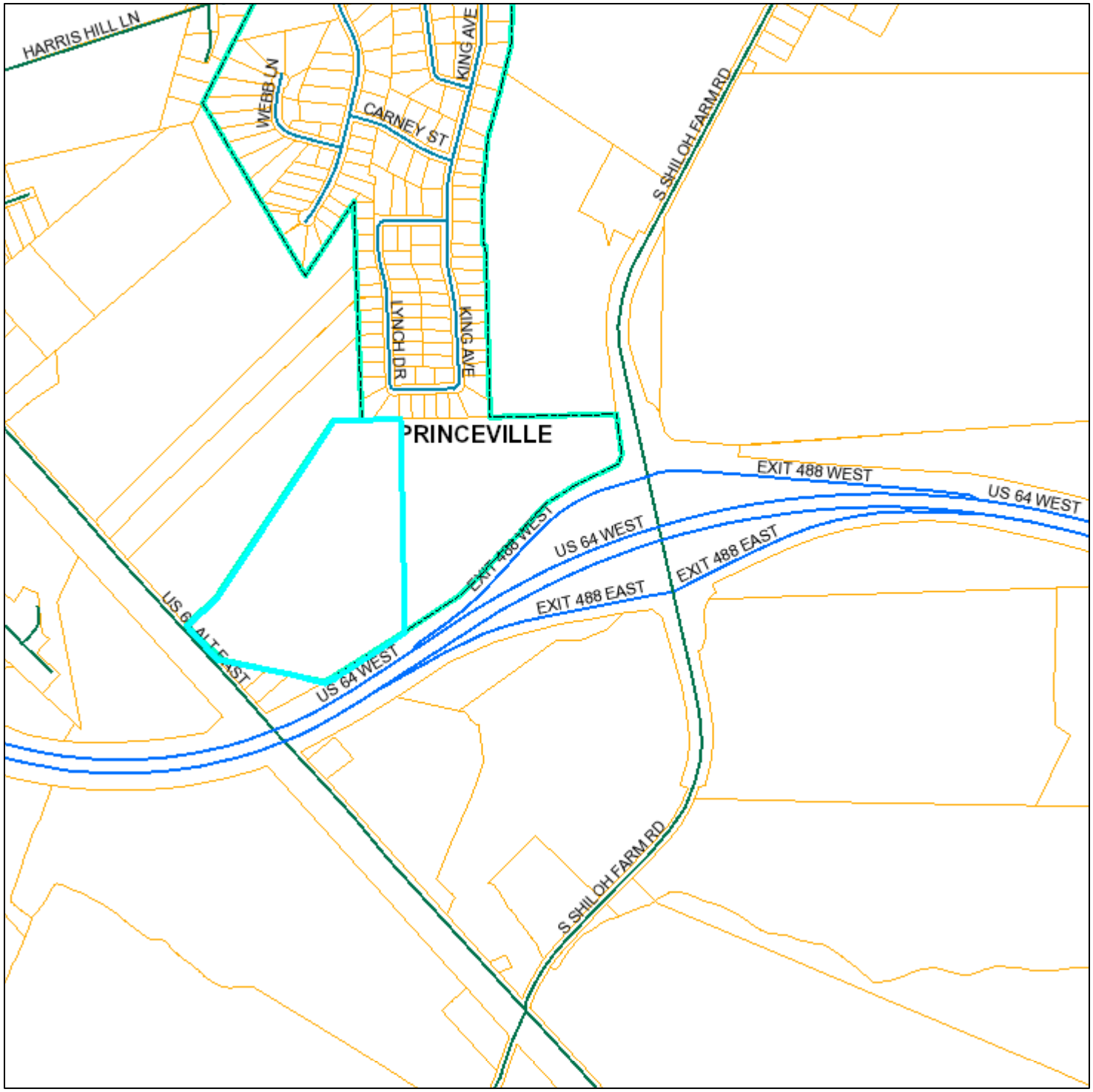
Copyright:© 2013 National Geographic Society, i-cubed



PIN: 474714756400
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 2 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 240000
DEED LOC: 1672/0336
ACCOUNT: 209203
ACREAGE: 29.96
LAND VALUE: 57870
BLDG VAL: 0
NET VALUE: 57870
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

Edgecombe County

December 30, 2021

1 inch = 854 feet

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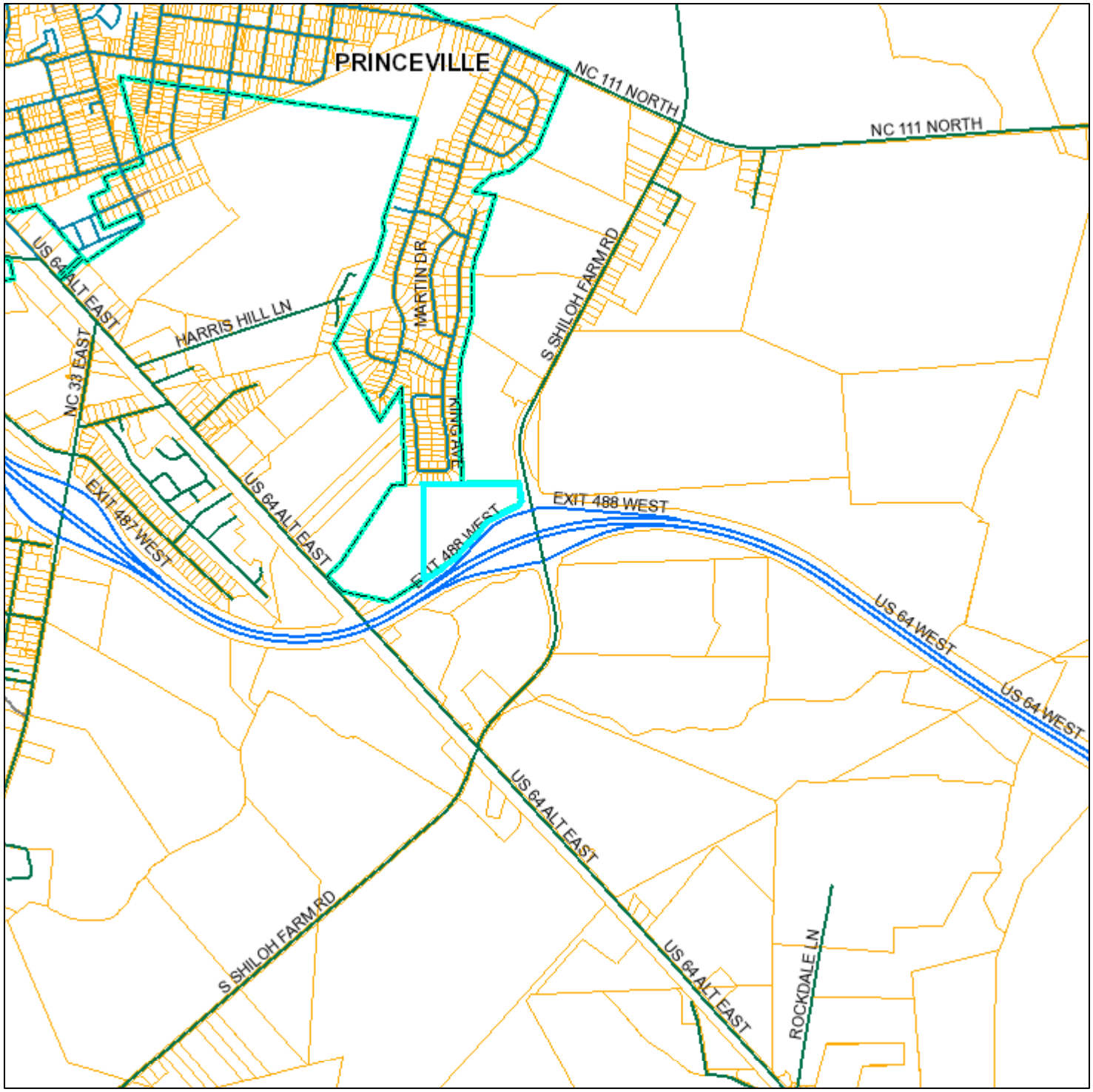
0 0.125 0.25 0.5 km



PIN: 474724794700
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E

PROPERTY DESCRIPTION:
TRACT 1 - DAUGHTRIDGE/LEE PLAT

DEED DATE: 12/15/2017
SALE PRICE: 190000
DEED LOC: 1672/0330
ACCOUNT: 209203
ACREAGE: 23
LAND VALUE: 52460
BLDG VAL: 0
NET VALUE: 52460
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
ZONING:

Edgecombe County

December 30, 2021

1 inch = 1,918 feet

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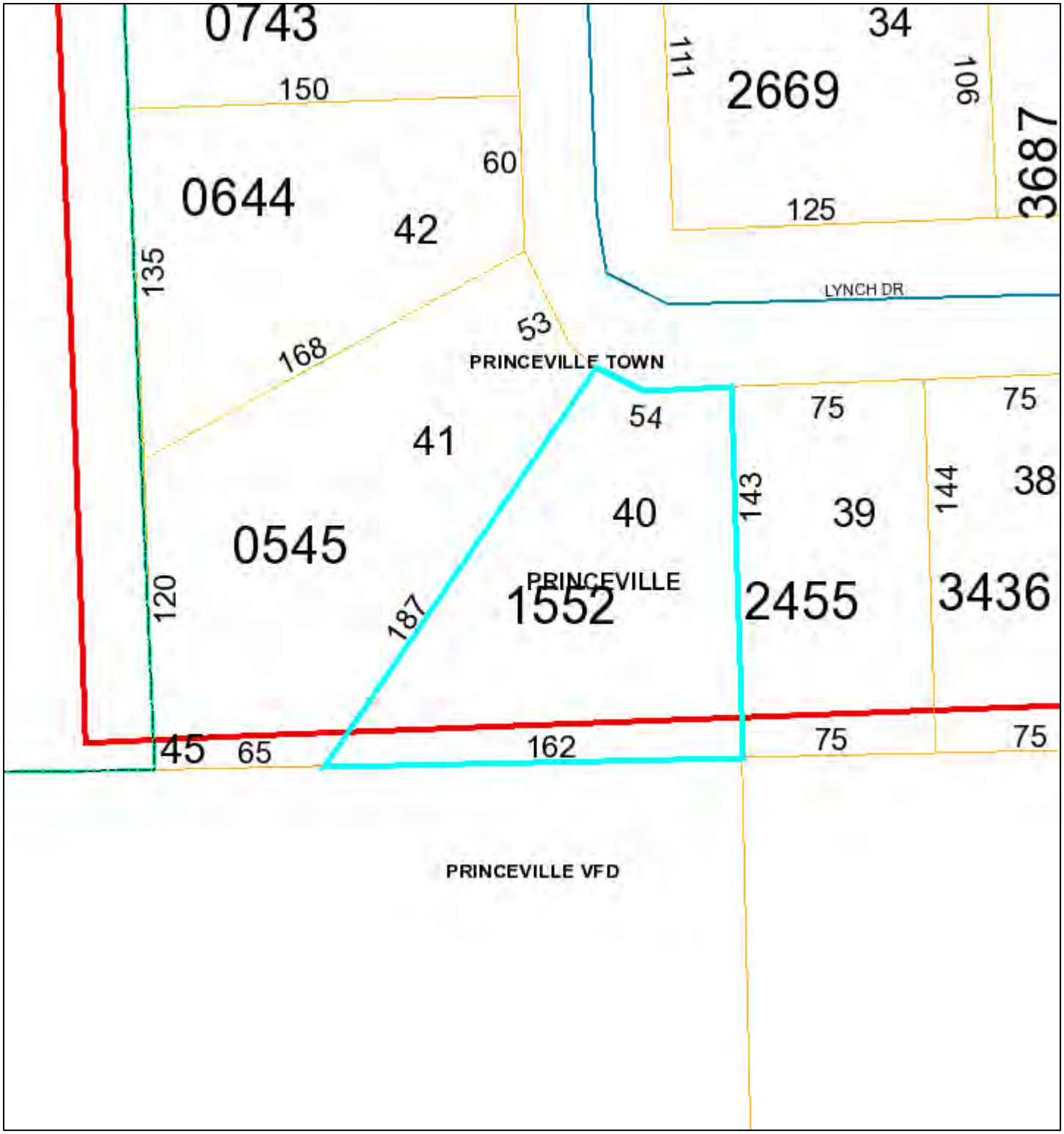
0 0.3 0.6 1.2 km

1029 Lynch Drive - Edgecombe County



PIN:	474725155200	**ACREAGE:**	0
OWNER:	HIGGINS CAROLYN D JENKINS	**LAND VALUE:**	9000
ADDRESS:	1000 VANCE DR	**BLDG VAL:**	0
CITY:	TARBORO	**NET VALUE:**	9000
STATE:	NC	**DEFERRED:**	0
ZIP:	27886	**SUBDIVISION:**	SOUTHERN TERRACE SECT 6 (B)
LOCATION:	1029 LYNCH DR	**TAX CODES:**	C10
PROPERTY DESCRIPTION: LT 40 SOUTHERN TERRACE SECT 6		**DEED LOC:**	1491/0727
ZONING:		**DEED DATE:**	5/22/2007
		SALE PRICE:	0

1 inch = 54 feet

0 0.005 0.01 0.02 mi

0 0.0075 0.015 0.03 km

October 5, 2023

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Date: June 2, 2022

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Manager: RAK	Project No. ET237138
Drawn by: RAK	Scale: AS SHOWN
Checked by: JH	File Name: NA
Approved by: JH	Date: JUNE 2023

Terracon
524 Elmwood Park Blvd Ste 170
New Orleans, LA 70123-6814

CONCEPTUAL PLAN

Mixed Use Development - 53 Acres
US Highway 64
Princeville, NC

Exhibit

53 ACRE PROJECT

PREPARED FOR

TOWN OF PRINCEVILLE

IN THE TOWN OF PRINCEVILLE, EDGECOMBE COUNTY
NORTH CAROLINA

7/13/23

Sheet List Table	
Sheet Number	Sheet Title
C-0.00	COVER SHEET
C-0.01	GENERAL NOTES
C-0.02	EXISTING CONDITIONS
C-1.00	OVERALL LAYOUT
C-1.01	INTERMEDIATE STAKING PLAN (1 OF2)
C-1.02	INTERMEDIATE STAKING PLAN (2 OF 2)
C-1.03	STAKING PLAN (1 OF 4)
C-1.04	STAKING PLAN (2 OF 4)
C-1.05	STAKING PLAN (3 OF 4)
C-1.06	STAKING PLAN (4 OF 4)
C-1.05	TRAFFIC & SIGNAGE PLAN (1 OF 3)
C-1.06	TRAFFIC & SIGNAGE PLAN (2 OF 3)
C-1.07	TRAFFIC & SIGNAGE PLAN (3 OF 3)
C-2.00	INITIAL - EROSION & SEDIMENT CONTROL PLAN
C-2.01	DURING CONSTRUCTION - EROSION & SEDIMENT CONTROL PLAN
C-2.02	STABILIZATION - EROSION & SEDIMENT CONTROL PLAN
C-3.00	OVERALL GRADING
C-3.01	INTERMEDIATE GRADING PLAN (1 OF 2)
C-3.02	INTERMEDIATE GRADING PLAN (2 OF 2)
C-3.03	GRADING PLAN (1 OF 4)
C-3.04	GRADING PLAN (2 OF 4)
C-3.05	GRADING PLAN (3 OF 4)
C-3.06	GRADING PLAN (4 OF 4)
C-4.00	OVERALL WATER
C-4.01	INTERMEDIATE WATER PLAN (1 OF 2)
C-4.02	INTERMEDIATE WATER PLAN (2 OF 2)
C-4.03	WATER PLAN (1 OF 4)
C-4.04	WATER PLAN (2 OF 4)
C-4.05	WATER PLAN (3 OF 4)
C-4.06	WATER PLAN (4 OF 4)
C-5.00	OVERALL WASTEWATER
C-5.01	INTERMEDIATE WASTEWATER PLAN (1 OF 2)
C-5.02	INTERMEDIATE WASTEWATER PLAN (2 OF 2)
C-5.03	WASTEWATER PLAN (1 OF 4)
C-5.04	WASTEWATER PLAN (2 OF 4)
C-5.05	WASTEWATER PLAN (3 OF 4)
C-5.06	WASTEWATER PLAN (4 OF 4)
C-6.00	OFFSITE FORCE MAIN PLAN & PROFILE (1 OF 10)
C-6.01	OFFSITE FORCE MAIN PLAN & PROFILE (2 OF 10)
C-6.02	OFFSITE FORCE MAIN PLAN & PROFILE (3 OF 10)
C-6.03	OFFSITE FORCE MAIN PLAN & PROFILE (4 OF 10)
C-6.04	OFFSITE FORCE MAIN PLAN & PROFILE (5 OF 10)
C-6.05	OFFSITE FORCE MAIN PLAN & PROFILE (6 OF 10)
C-6.06	OFFSITE FORCE MAIN PLAN & PROFILE (7 OF 10)
C-6.07	OFFSITE FORCE MAIN PLAN & PROFILE (8 OF 10)
C-6.08	OFFSITE FORCE MAIN PLAN & PROFILE (9 OF 10)
C-6.09	OFFSITE FORCE MAIN PLAN & PROFILE (10 OF 10)
C-7.00	OFFSITE EXISTING CONDITIONS & DEMOLITION PLAN
C-7.01	OFFSITE ROADWAY IMPROVEMENTS PLAN
C-8.00	ROAD PROFILE (1 OF 3)
C-8.01	ROAD PROFILE (2 OF 3)
C-8.02	ROAD PROFILE (3 OF 3)
C-9.00	STORM DRAIN PROFILE (1 OF 4)
C-9.01	STORM DRAIN PROFILE (2 OF 4)
C-9.02	STORM DRAIN PROFILE (3 OF 4)
C-9.03	STORM DRAIN PROFILE (4 OF 4)
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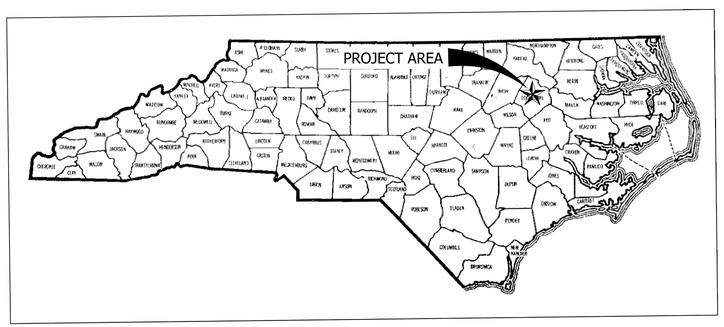
C-10.02	SEWER PROFILE (3 OF 3)



VICINITY MAP
NOT TO SCALE

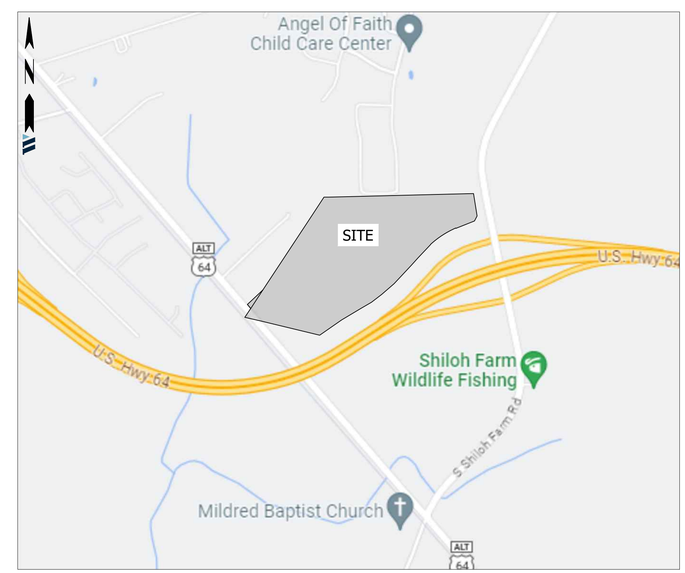
MAYOR
BOBBIE JONES

MAYOR PRO TEM
ALVIN JONES

COMMISSIONER
MILTON BULLOCK
LINDA JOYNER
JOEROAM MYRICK

TOWN MANAGER
Dr. GLENDA L. KNIGHT

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115



PROJECT AREA MAP
NOT TO SCALE

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-GNRL.dwg JNIXON 7/13/2023 4:00 PM

GENERAL NOTES:

ADHERE TO THE FOLLOWING ITEMS IN THE CONSTRUCTION OF TOWN OF PRINCEVILLE 53 ACRE PROJECT DEVELOPMENT UNLESS OTHERWISE NOTED.

1. Existing utilities are located on plans approximately. Notify utility locating service to mark location of existing utilities at least 72 hours prior to commencing construction activity. Contractor responsible for verifying exact location of these existing utilities. The cost to repair these facilities, if damaged, shall be the responsibility of the contractor.
2. Contractor shall contact the N.C. Department of Transportation prior to any work within NCDOT right-of-way. The NCDOT district engineer for this project is Gray Keeter, PE (pgkeeter@ncdot.gov) for Edgecombe County.
3. Contractor shall protect existing property corner markers. Disturbed property corners shall be re-established by a professional land surveyor at the contractor's expense.
4. The contractor shall be responsible and liable for any damages to existing utilities, storm drainage, headwalls, and ther facilities caused by the contractor or resulting from the contractor's work associated with accomplishing the project. The contractor shall correct or replace those utilities, storm drainage, headwalls, and other facilities damaged or destroyed during construction whether shown on the plans or not, according to the NCDOT engineer's specifications within NCDOT right - of - way and engineer's specifications outside of right - of - way.
5. Support existing poles, fences, culverts, pavement, utilities, curbing and other structures during construction. Repair damaged items to their original condition at no additional cost to the owner according to the NCDOT engineer's specifications within NCDOT right - of -way and engineer's specifications outside of right - of - way.
6. Open cut gravel driveways. Replace curb & gutter and sidewalk with new concrete to match the existing cross section. Provide pavement patching per details.
7. Existing trees are to be protected unless otherwise noted.
8. City or NCDOT driveway permit required. Any encroachment agreements shall be approved before installation.
9. Contractor must notify ONE - Call Center, Inc. (NC ONE-CALL) (811) at least 72 hours prior to start of excavation or trenching to have all underground utilities located.
10. Contractor shall notify Public Works, Street Maintenance Division 48 hours prior to making connections to existing storm drains located within public storm drainage easements or right-of-way.
11. This property is partially located in a Special Flood Hazard Area as determined by the Federal Emergency management Agency. This property is located in Zones "X" as shown on FIRM Panel number 4737/4738/4746, Community Number 370318, index date November 3,2004/June 2, 2015/ November 3,2004
12. Lane closures on thoroughfare roads are only permitted between the hours of 9:00 AM and 4:00 PM, Monday through Friday, unless otherwise permitted by the Traffic Engineer. In addition, there will be no lane closures on holidays including the day before or after said holiday. A traffic control plan prepared in accordance with the NCDOT Manual of uniform Traffic Control Devices is required for all lane closures and must be approved by the traffic Engineer.
13. River basin: Tar-Pamlico

EROSION CONTROL NOTES:

1. Install silt fence over and around the top of existing pipes and inlets at disturbed areas.
2. All disturbed areas shall be graded to minimize runoff.
3. Install silt fence around spoil piles and along trenches to minimize sediment from entering roadside ditches and existing drainage outlets.
4. All disturbed areas on the banks and approaches to ditch, stream or creek crossings shall be graded not to exceed 3:1 ratio and stabilized with bank stabilization. Surface water runoff shall be diverted from disturbed areas. All slopes shall be stabilized within 7 calendar days of disturbance.
5. Provide erosion control measures around stock/waste piles and staging areas as needed or as directed by engineer. Protect storm pipe inlets from sediment runoff from land disturbing activities with silt fence, stone check dam, or arc filter as appropriate for site conditions.
6. Replace disturbed storm pipe outlet protection with equal or greater amount of rip-rap immediately upon completion of installation of pipe.
7. Where the area around an outlet is disturbed and no outlet protection exists, class "b" rip-rap shall be placed around pipe outlet as needed or as directed by the engineer.
8. Provide erosion control matting in all disturbed ditches and swales unless directed otherwise by engineer.
9. All disturbed areas related to pipe installation shall be fertilized, limed, seeded, and mulched within fourteen (14) working days of completion of any land disturbing activity, or temporary seeded within fourteen (14) working days of any land disturbing activity.
10. Trench should be backfilled daily.
11. New or affected cut or filled slopes must be at an angle that can be retained by vegetative cover, and must be provided with a ground cover sufficient to restrain erosion within 7 calendar days of completion of any phase (rough or final) of grading. Rye grass is not in the approved seeding specifications nor is it an acceptable substitute for the providing of a temporary ground cover.
12. A permanent ground cover, sufficient to restrain erosion, must be provided within the shorter of fourteen working or 90 calendar days (if in a high quality zone, the shorter of 14 working or 60 calendar after completion of construction or development on any portion of the project (rye grass is not in the approved seeding specifications nor is it an acceptable substitute for the providing of a permanent ground cover).
13. At any given time within the project area, the maximum affected exposed and unrestored" area is limited to the lesser of 1 (one) acres (approximately 1 mile) or the affected length along any given road section. A road section being defined as a continuous section of road having the same number or road name.
14. No excavated material shall be placed on road during construction.

EROSION CONTROL CONSTRUCTION SEQUENCE:

1. Clear site only as necessary to install erosion control devices as indicated on the drawings or specified in the specifications.
2. Once erosion control devices are approved, begin construction operations.
3. Maintain erosion control devices as necessary during installation of water main, inspect devices after every rainfall event and clean out traps and/or check dams when half full.
4. As construction progresses, install additional erosion control devices as indicated on the drawings, called for in the specifications, or as needed or directed by engineer.
5. Seed and mulch disturbed areas within fourteen (14) working days of disturbance:
   a) Upon completion of any phase of construction.
   b) When work will not proceed in an area within the above time frame.
6. Upon approval of site stabilization, remove temporary erosion devices, dress out area, and seed and mulch. Permanent erosion control devices shall be installed and approved by engineer.
7. Post construction and existing grades within the limits of disturbance shall be the same to the greatest extent practicable so as not to change drainage patterns, nor to create pocket wetlands. Positive drainage shall be provided.
8. Erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur. DEMLR Raleigh regional office (919-791-4200) must be contacted at least 48 hours prior to commencing the land disturbing activity.
9. Self-inspections for erosion and sedimentation control measures are to be performed a least once every seven calendar days and with 24 hours of every rain event of greater than 1 inch. Any needed repairs shall be maintained as specified in the construction details on this plan. A rain gauge shall be installed at the project site for monitoring.
10. Per NPDES requirements, a rain gauge, self-inspections records, permit, Certificate of Coverage, and S&E plan are required to be maintained on site and accessible during inspection. It is recommended that these items be placed in a permits box at the beginning or entrance of project.
11. All applicable E&SC measures will be installed at the commencement of demolition phase.
12. Any dewatering is to be done through a silt bag with a floating intake that is constantly monitored while in use.
13. When the project is complete, the permittee shall contact DEMLP to close out the E&SC plan. After DEMLR informs the project permittee of the close out, via inspection report, the permittee shall visit deq.nc.gov/NCG01 to submit am electronic notice of termination (e-NOT). A $100 annual general permit fee will be charged until the e-NOT has been filled out.

LEGEND

- PROPOSED SEWER EASEMENT
- PROPOSED WATER EASEMENT
- PROPOSED LEXINGTON COUNTY STORM DRAINAGE EASEMENT
- WL — PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED SANITARY SEWER MAIN
- PROPOSED SEWER MANHOLE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- INLET PROTECTION
- CONCRETE SIDEWALK
- PROPOSED PROPERTY LINE
- ASPHALT ROAD SECTION
- EXISTING PROPERTY LINE
- 335 — EXISTING CONTOUR
- WETLAND BUFFER
- 330 — PROPOSED CONTOUR
- PROPOSED STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE STRUCTURE
- 104.10 — SPOT ELEVATION
- FLOW DIRECTION ARROW

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

Wooten
301 West 14th Street • Greenville, NC 27834
(252) 757-1096 • thewootencompany.com
License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GENERAL NOTES

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-0.01

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CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
C14	346.04'	1054.93'	18°47'39"	S 57°00'58" W	344.49'

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND INVERTS

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
EXISTING CONDITIONS

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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CURVE TABLE					
Curve #	Length	Radius	Delta	CH Direction	CH Length
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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL LAYOUT

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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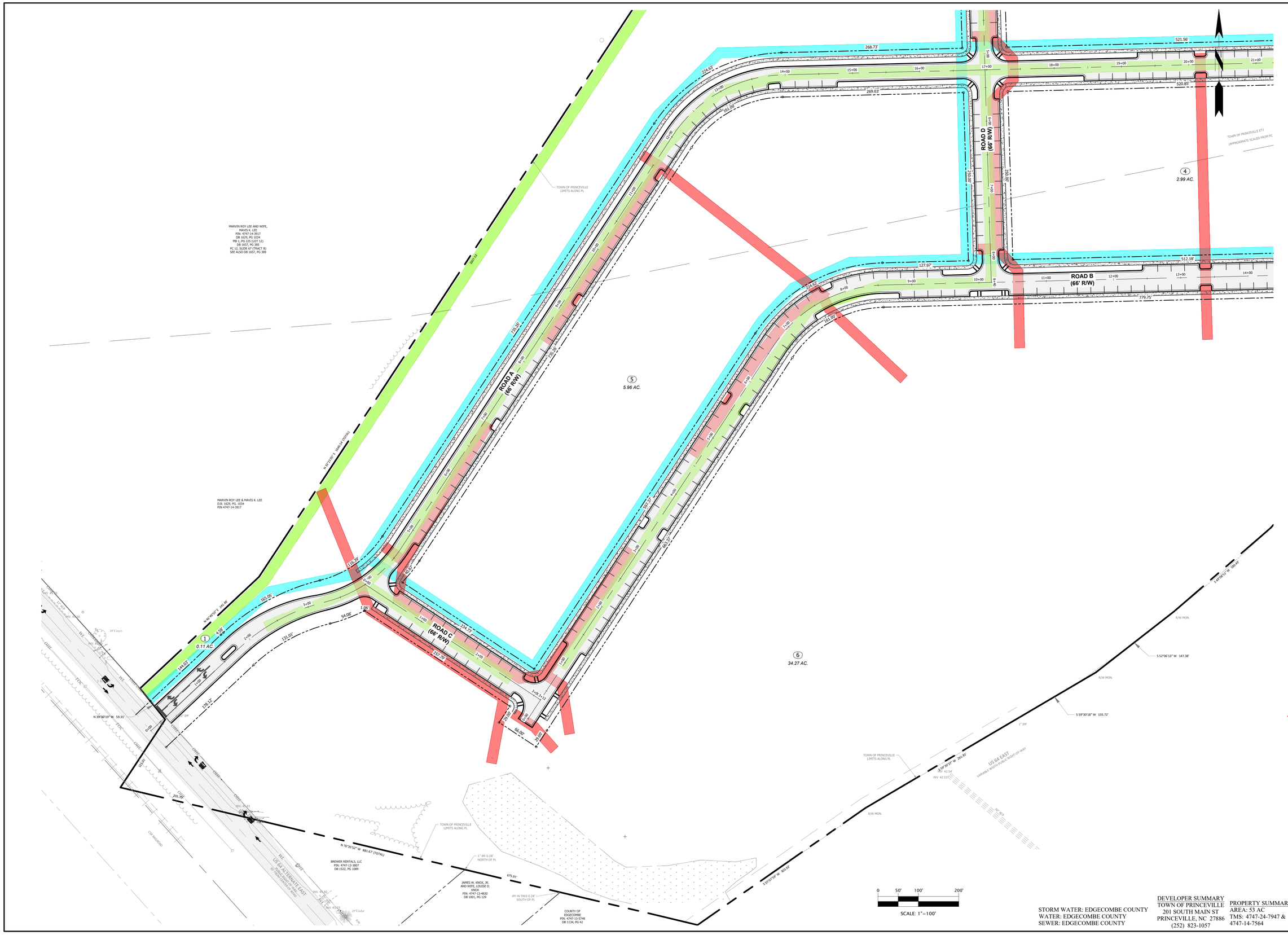

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE STAKING PLAN (1 OF2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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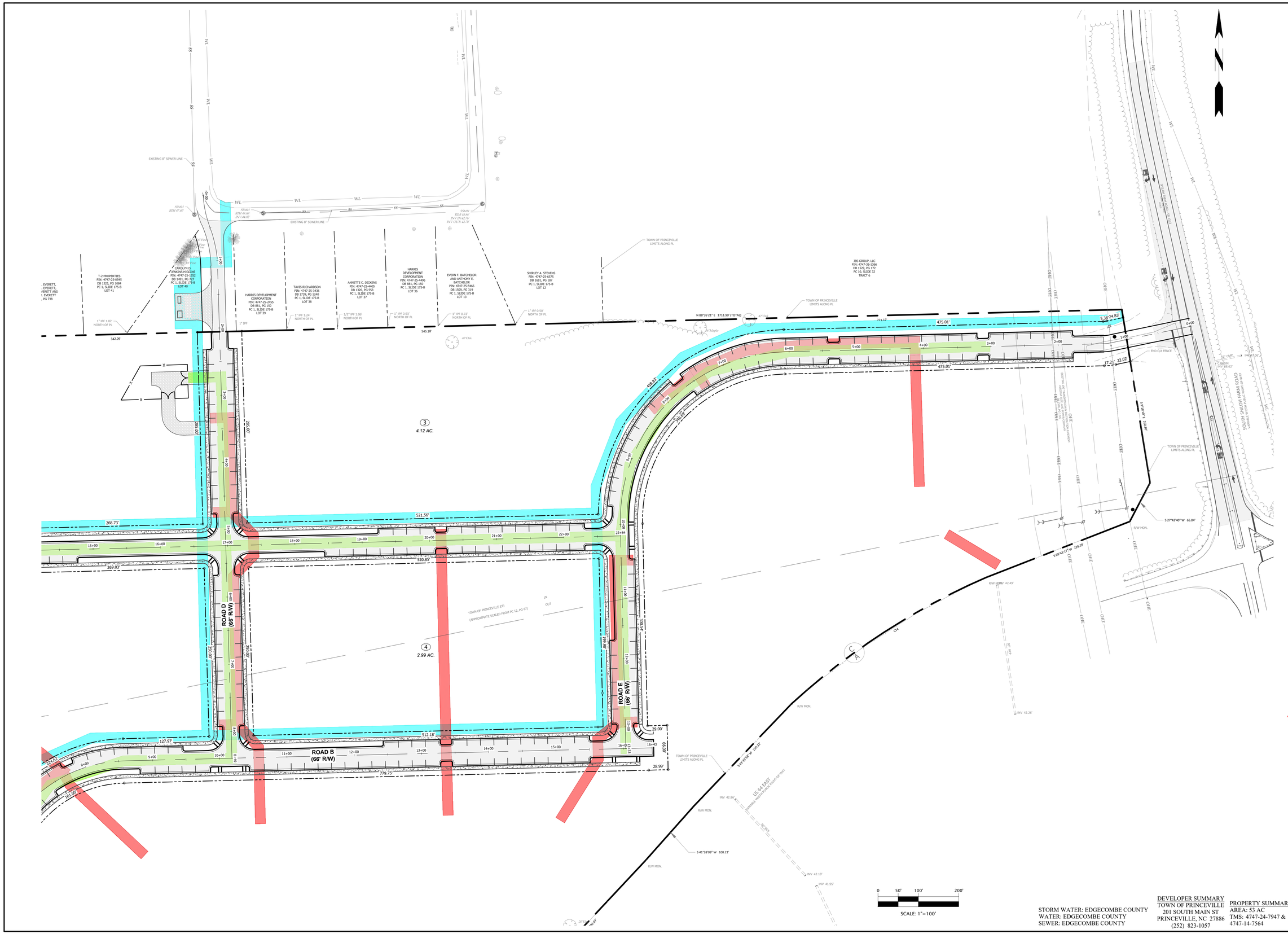

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE STAKING PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.02

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
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PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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TMS: 4747-24-7947 &
4747-14-7564

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ROADWAY CENTERLINE CURVE TABLE					
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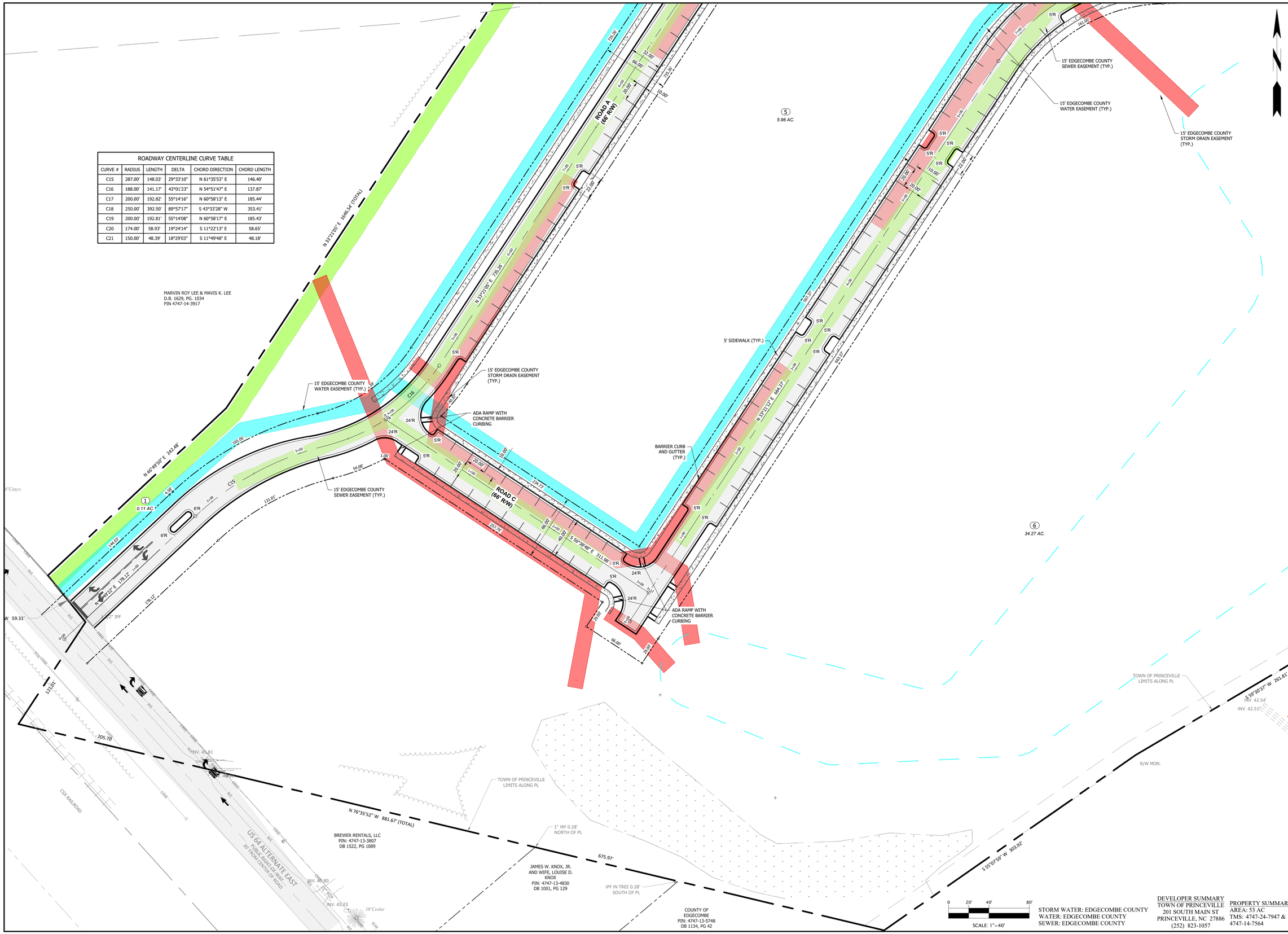

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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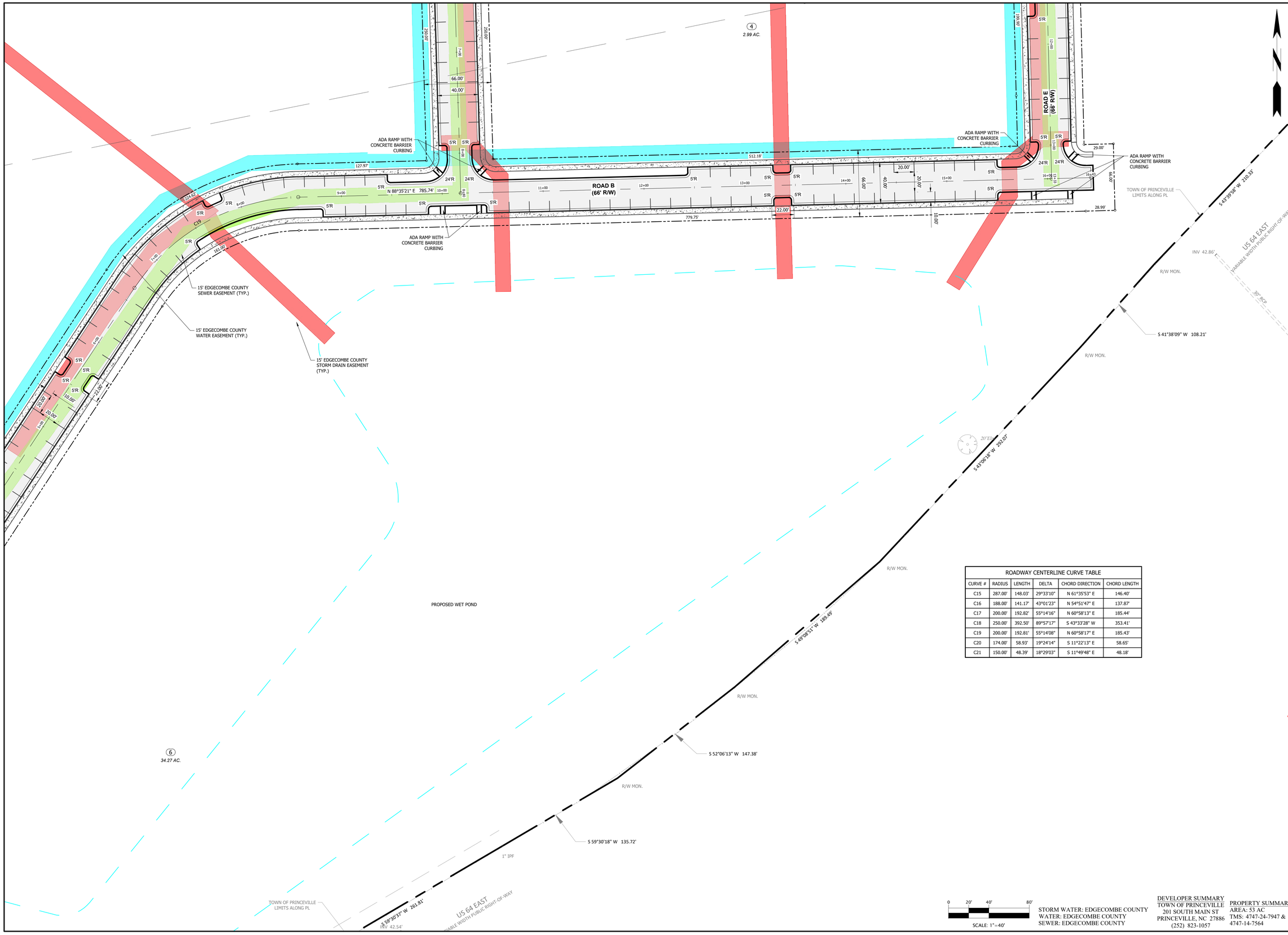

ROADWAY CENTERLINE CURVE TABLE					
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0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.04

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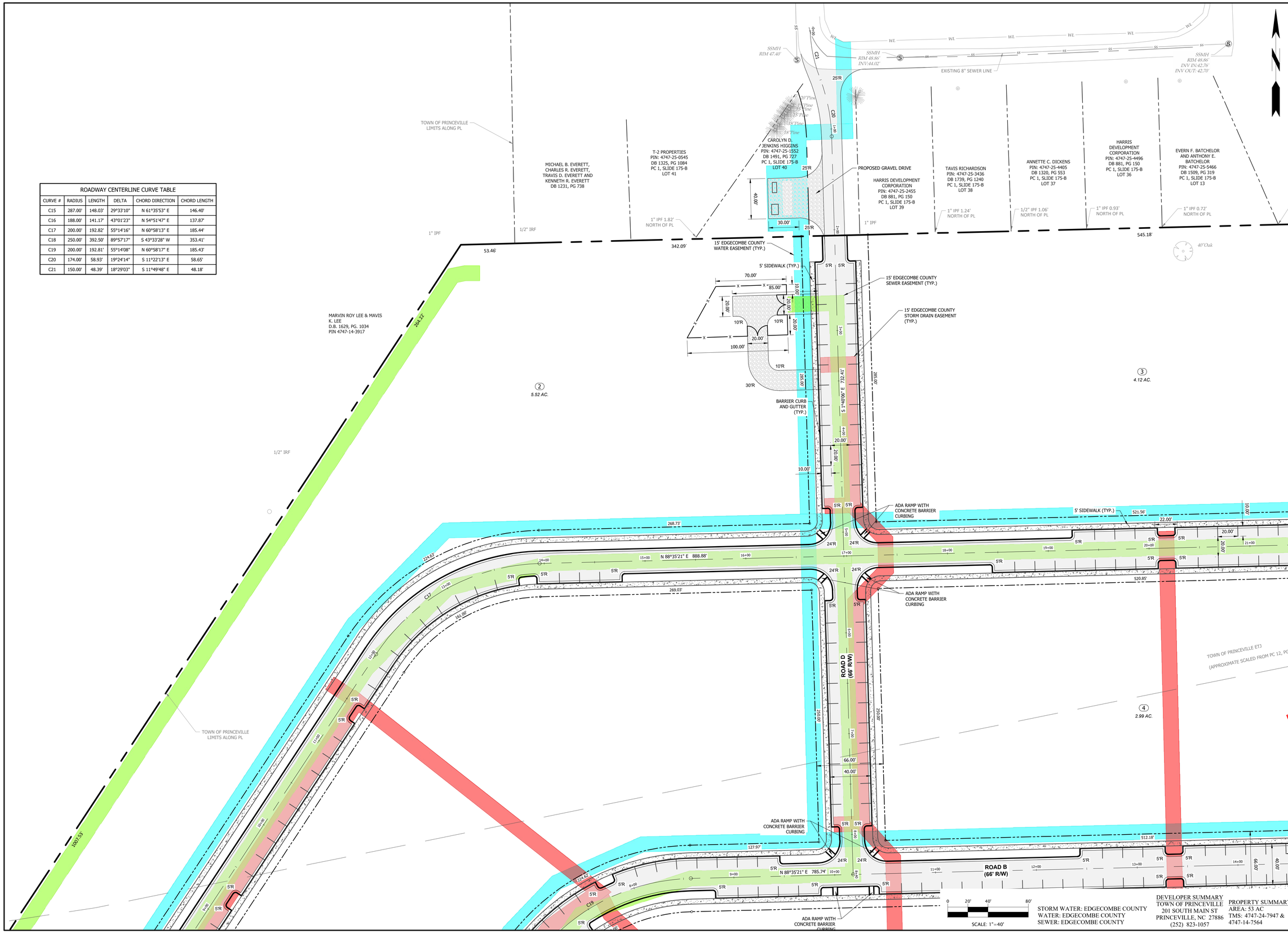

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

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NORTH CAROLINA
EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.05

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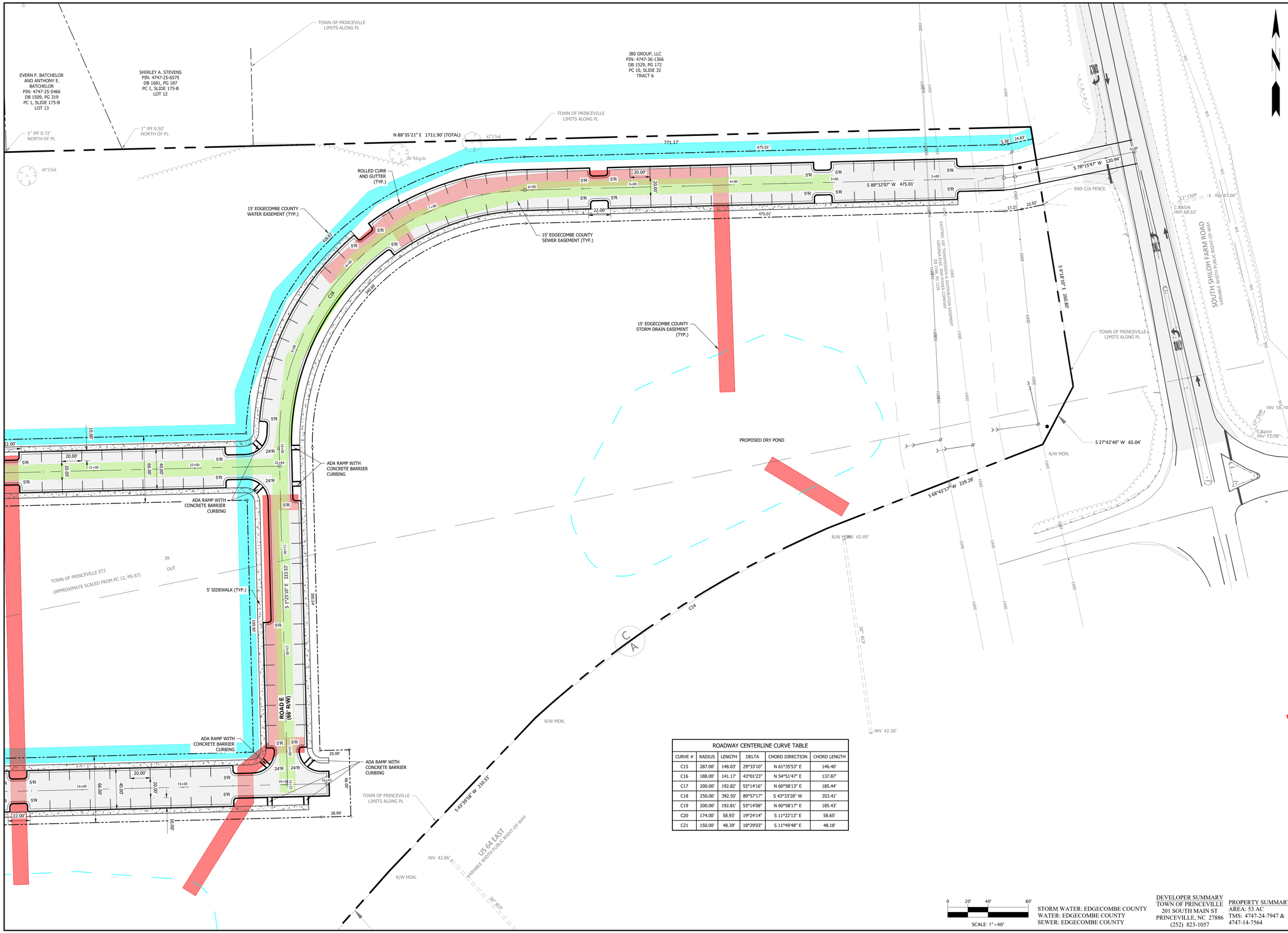

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

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License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STAKING PLAN (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

TRAFFIC & SIGNAGE PLAN (1 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.05

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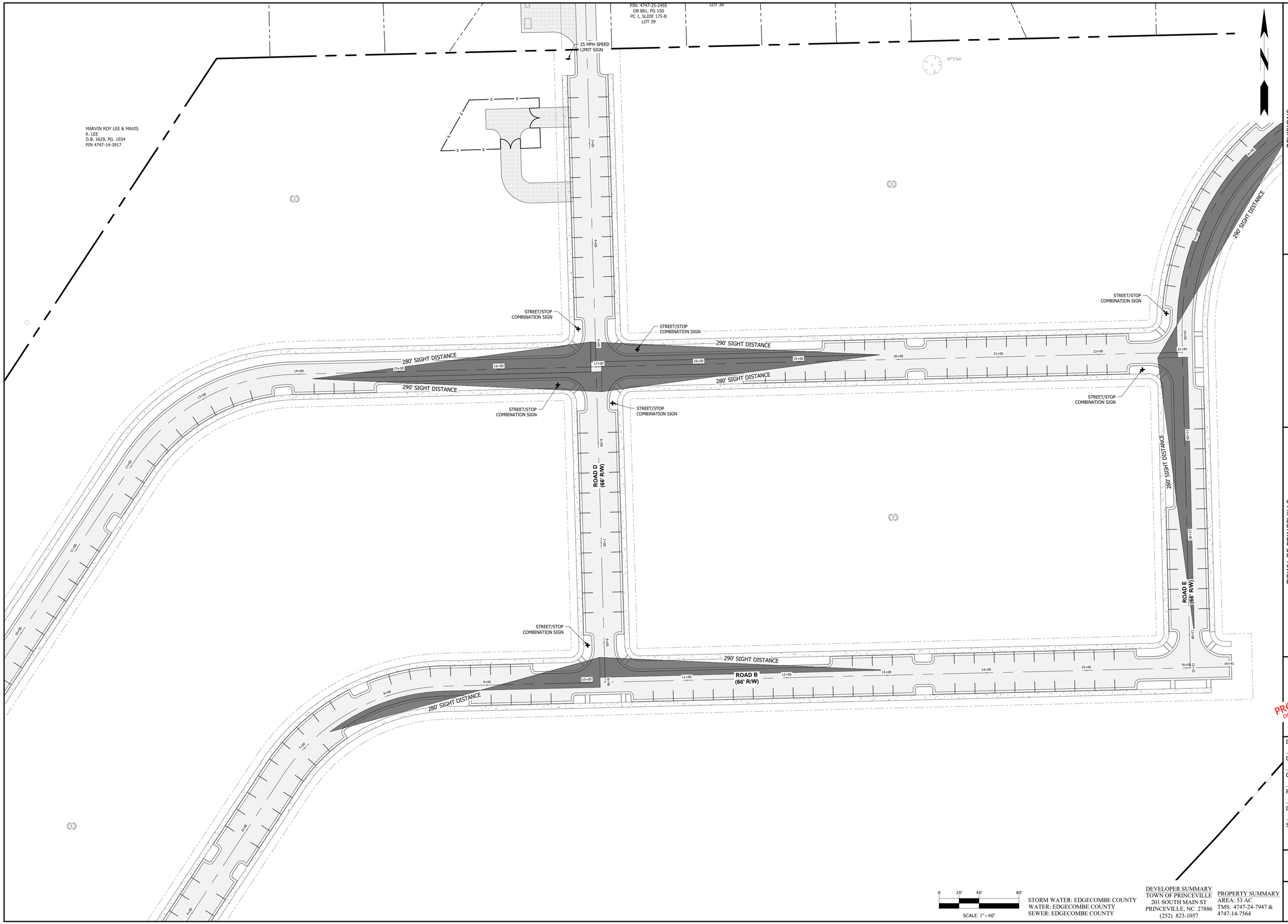

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
TRAFFIC & SIGNAGE PLAN (2 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.06

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
TRAFFIC & SIGNAGE PLAN (3 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-1.07

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INITIAL – EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-2.00

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT

DURING CONSTRUCTION – EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-2.01

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STABILIZATION - EROSION & SEDIMENT CONTROL PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-2.02

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL GRADING

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-3.00

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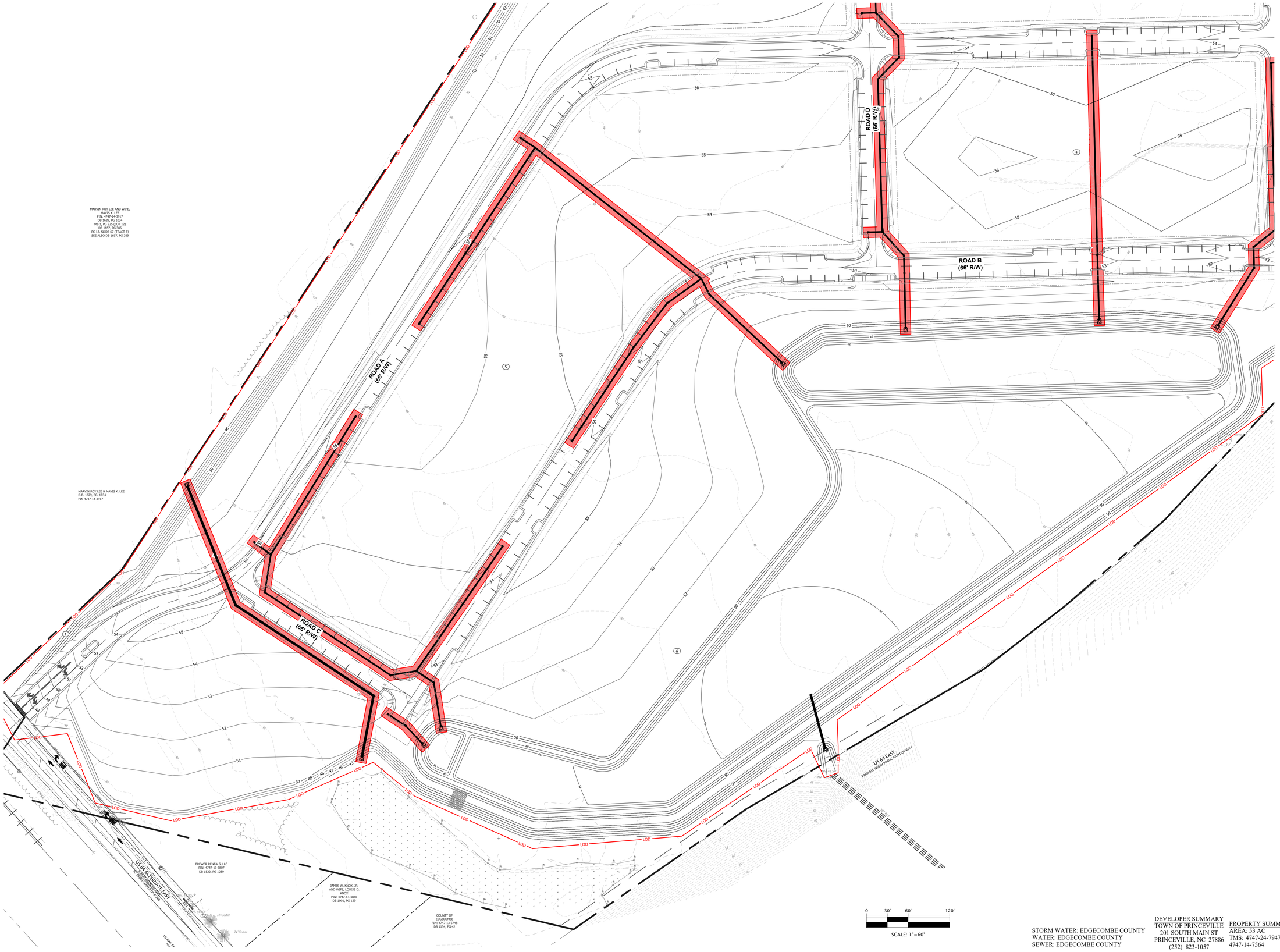

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE GRADING PLAN (1 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.01

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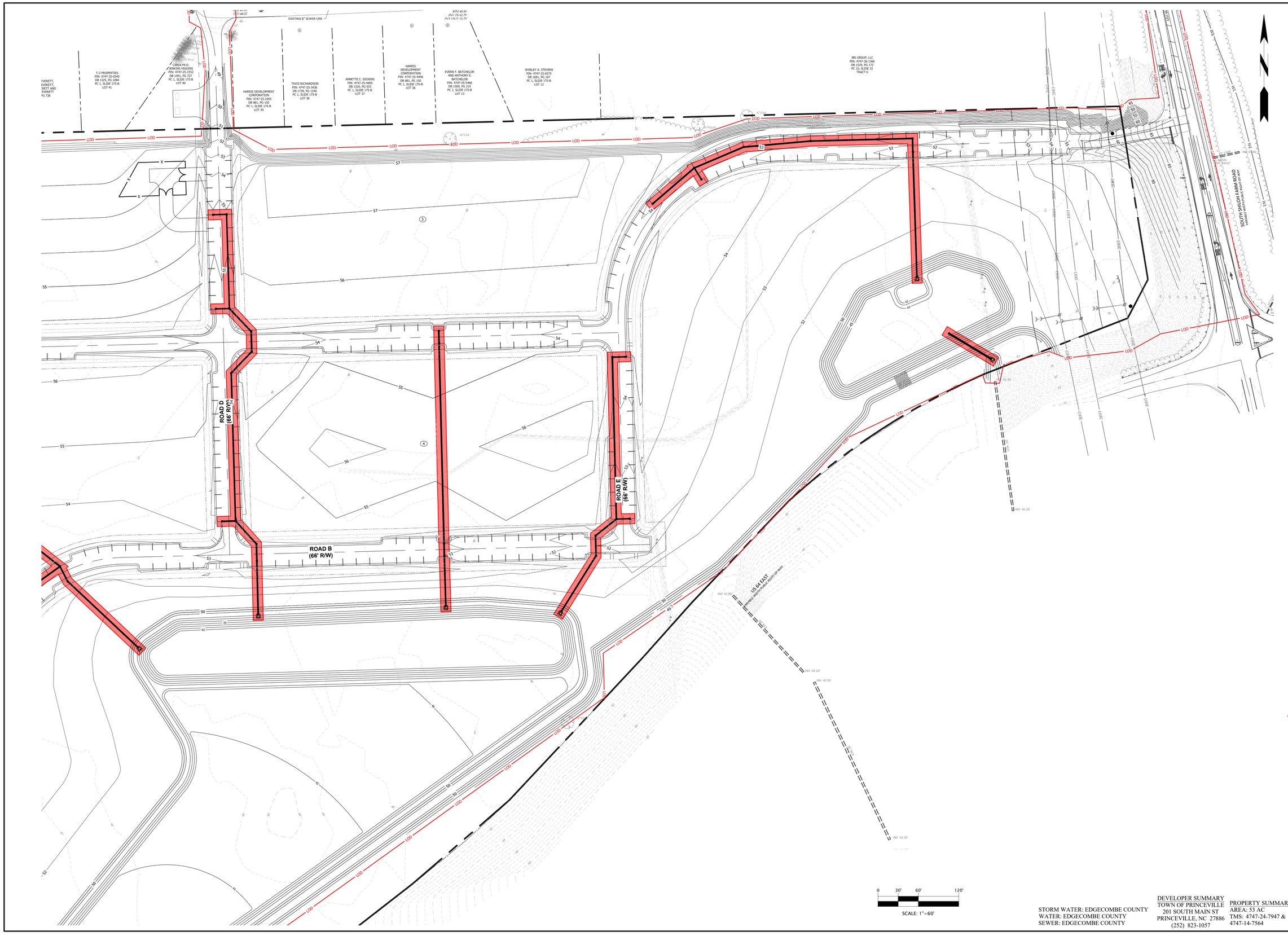

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE GRADING PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.02

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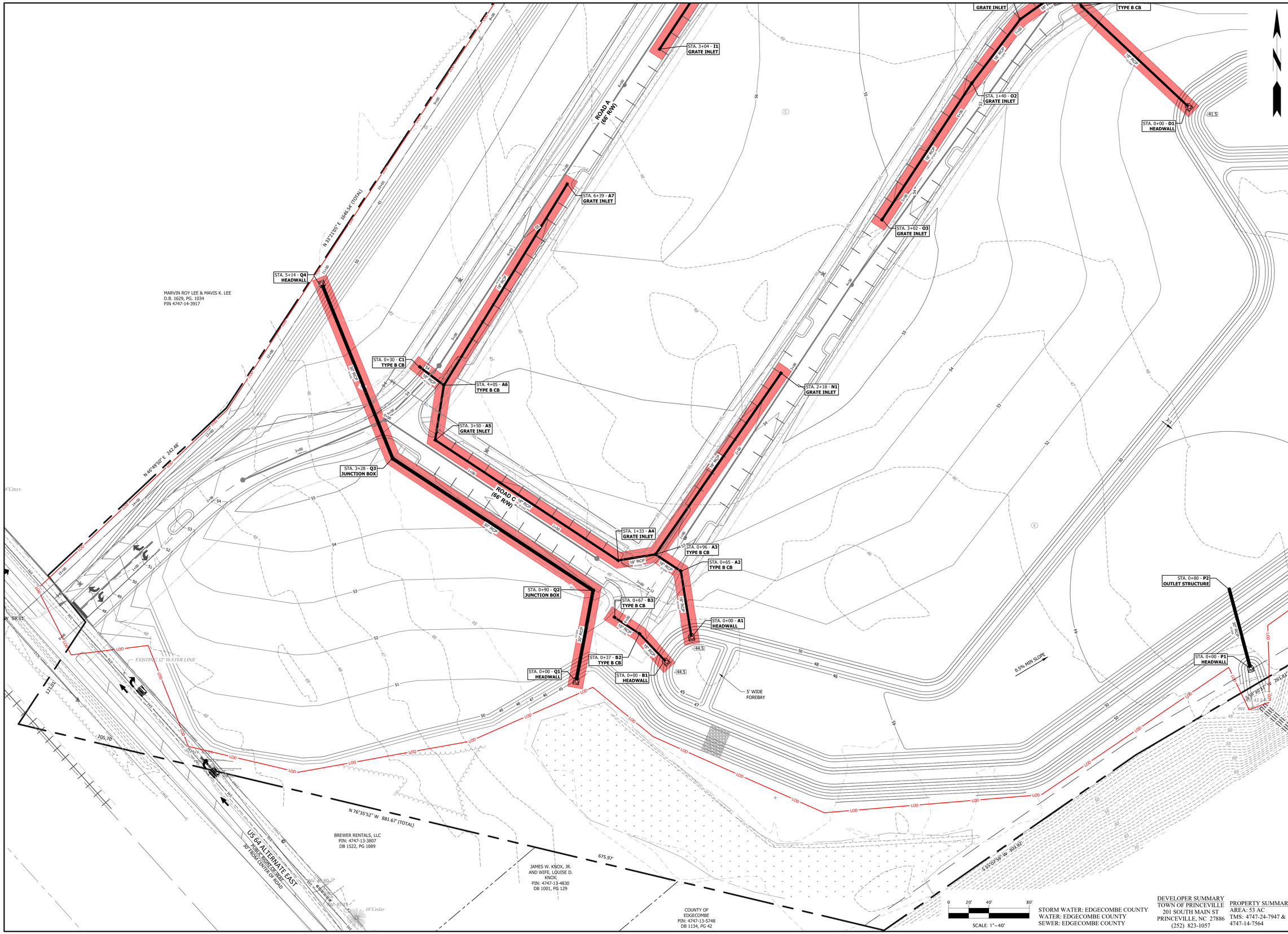

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

GRADING PLAN (1 OF 4)

PROGRESS DRAWING
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CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.03

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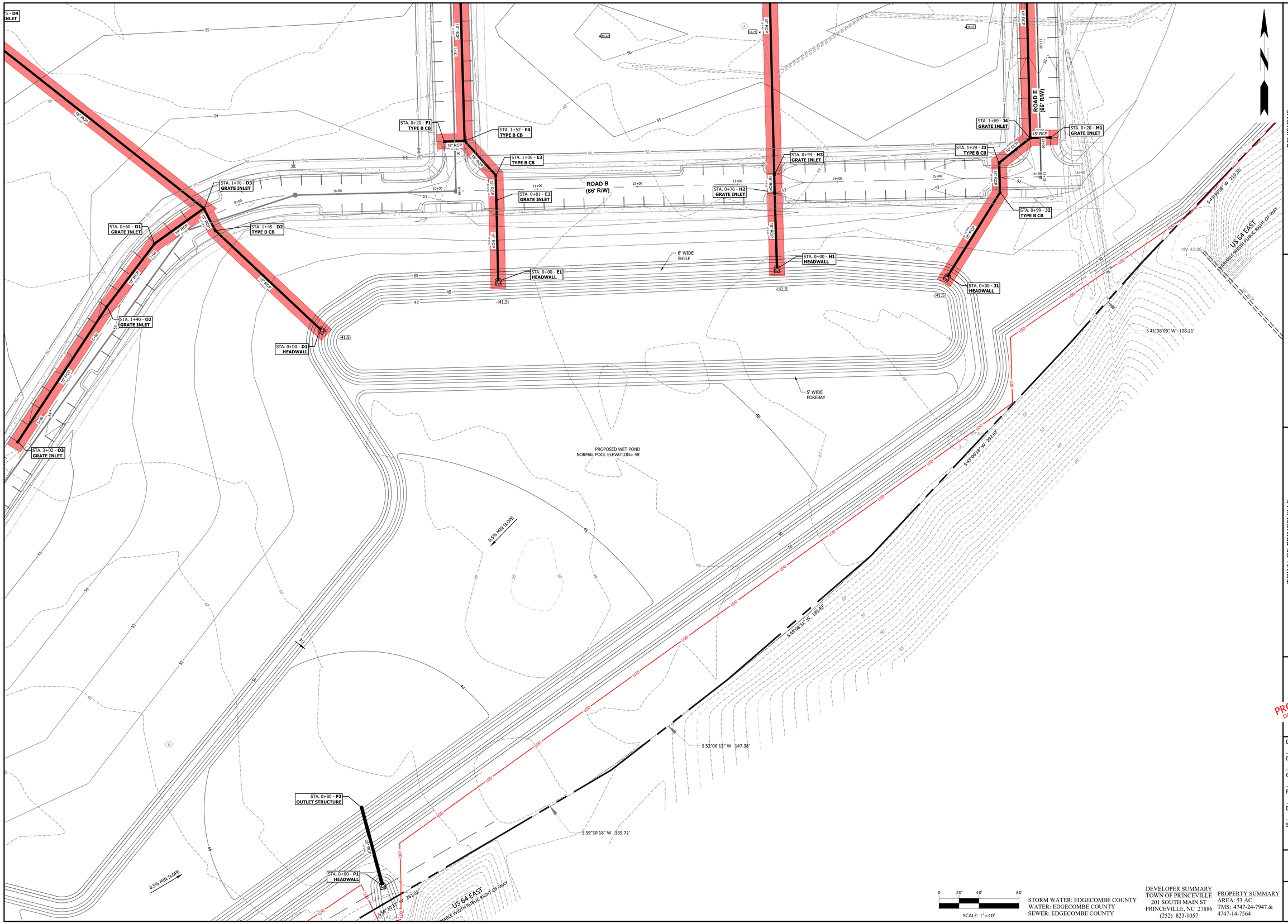

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SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

GRADING PLAN (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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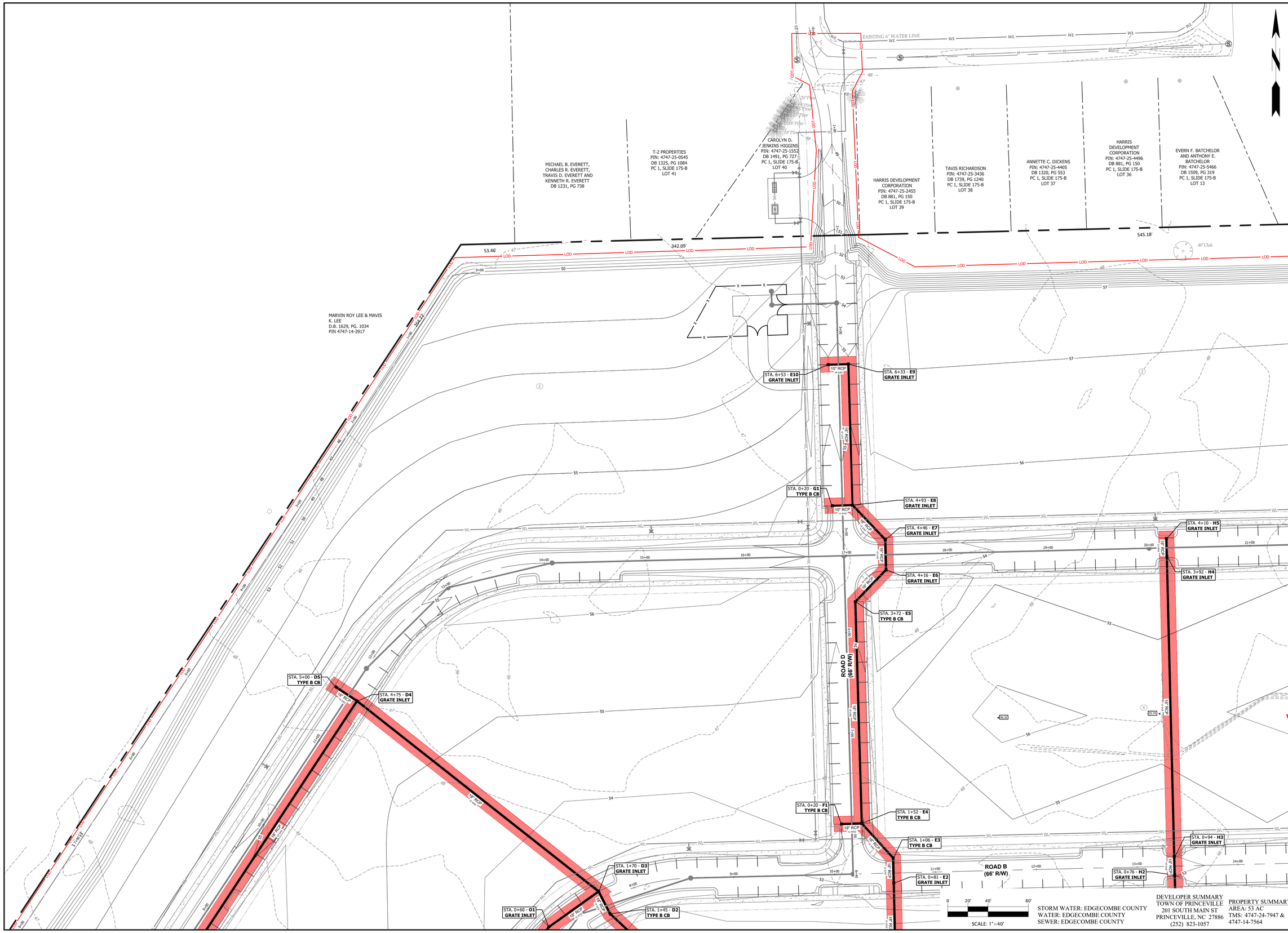

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GRADING PLAN (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-3.05

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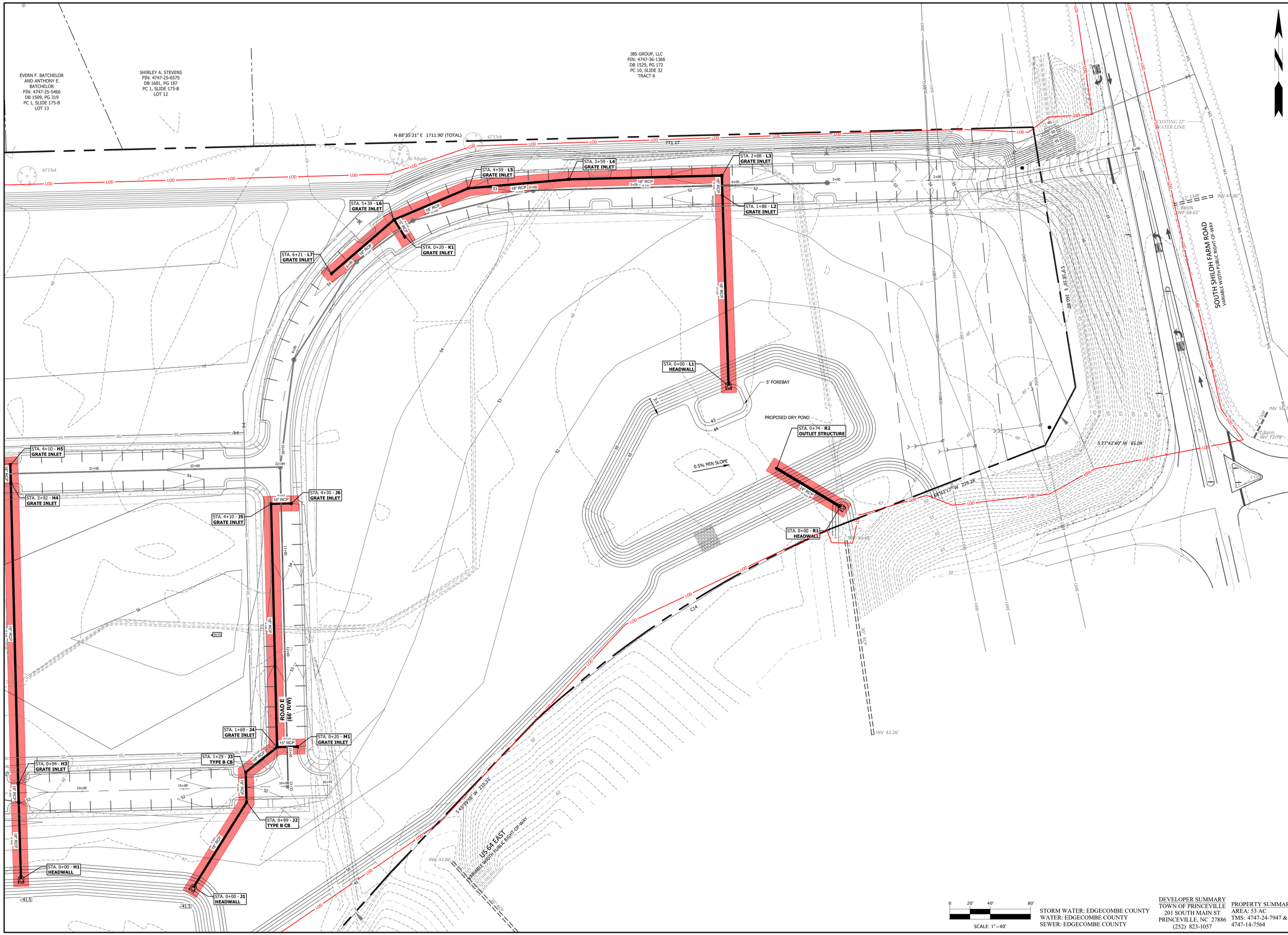

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
GRADING PLAN (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-3.06

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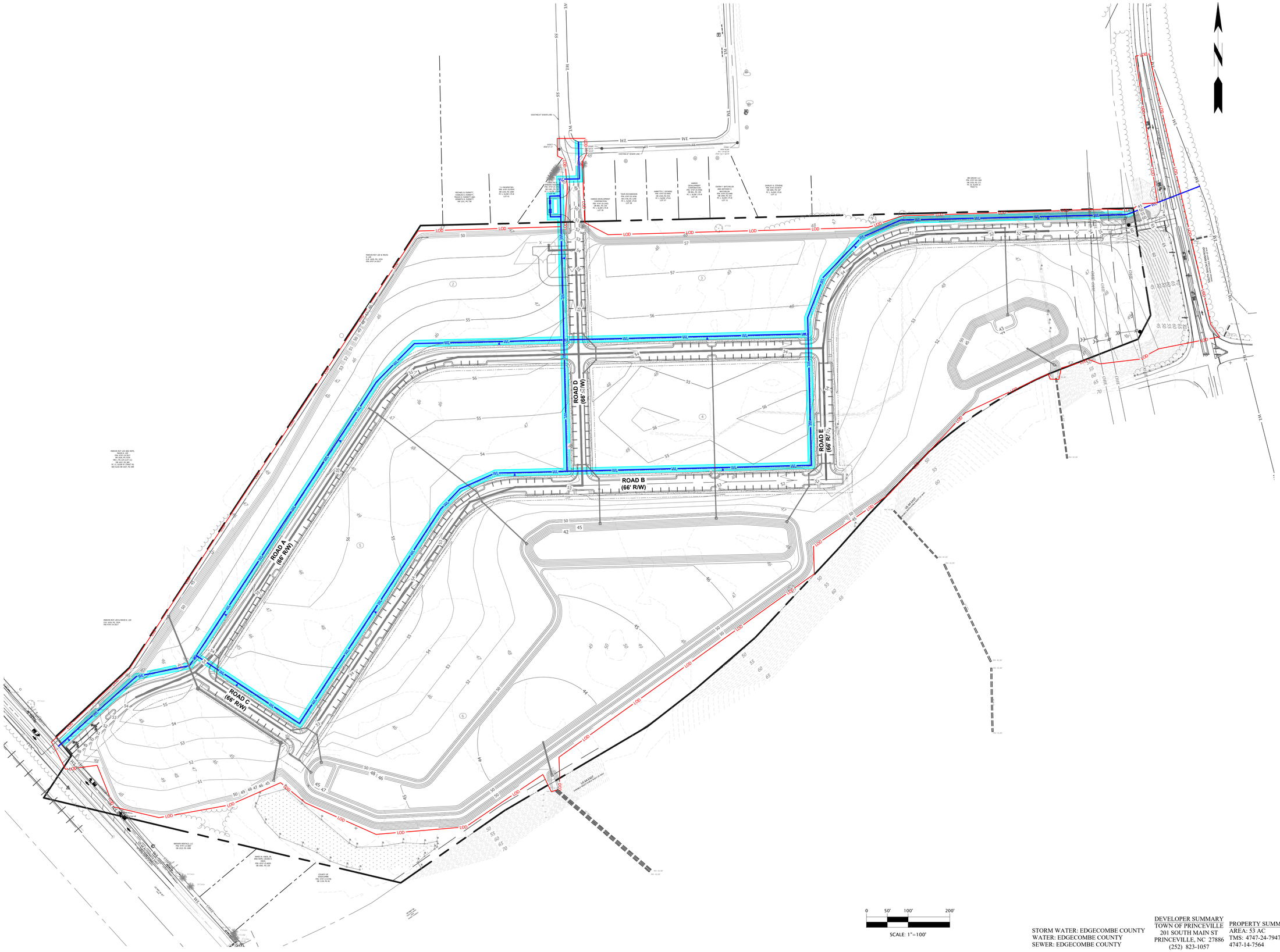

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

OVERALL WATER

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.00

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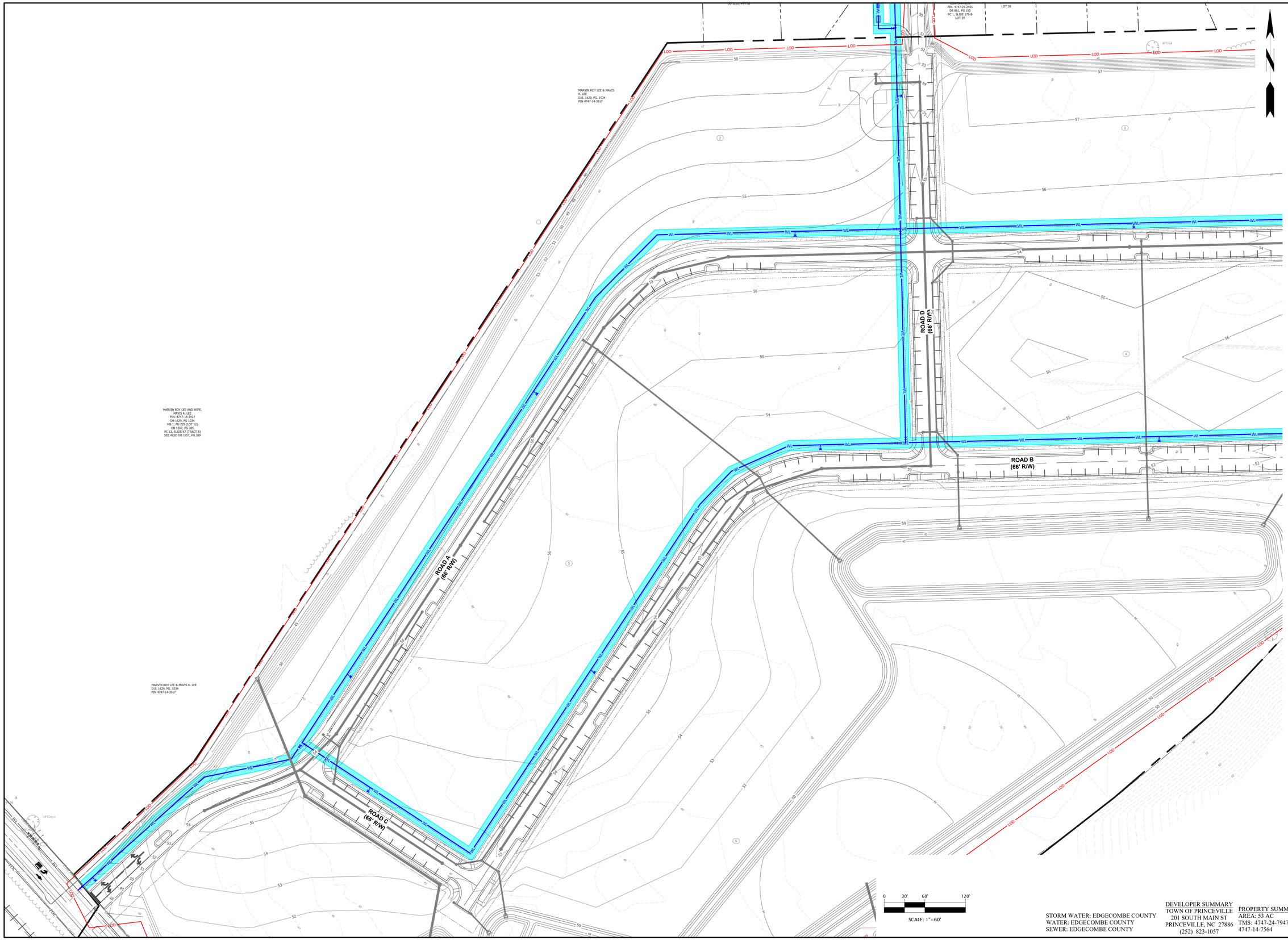

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE WATER PLAN (1 OF 2)

PROGRESS DRAWING
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DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.01

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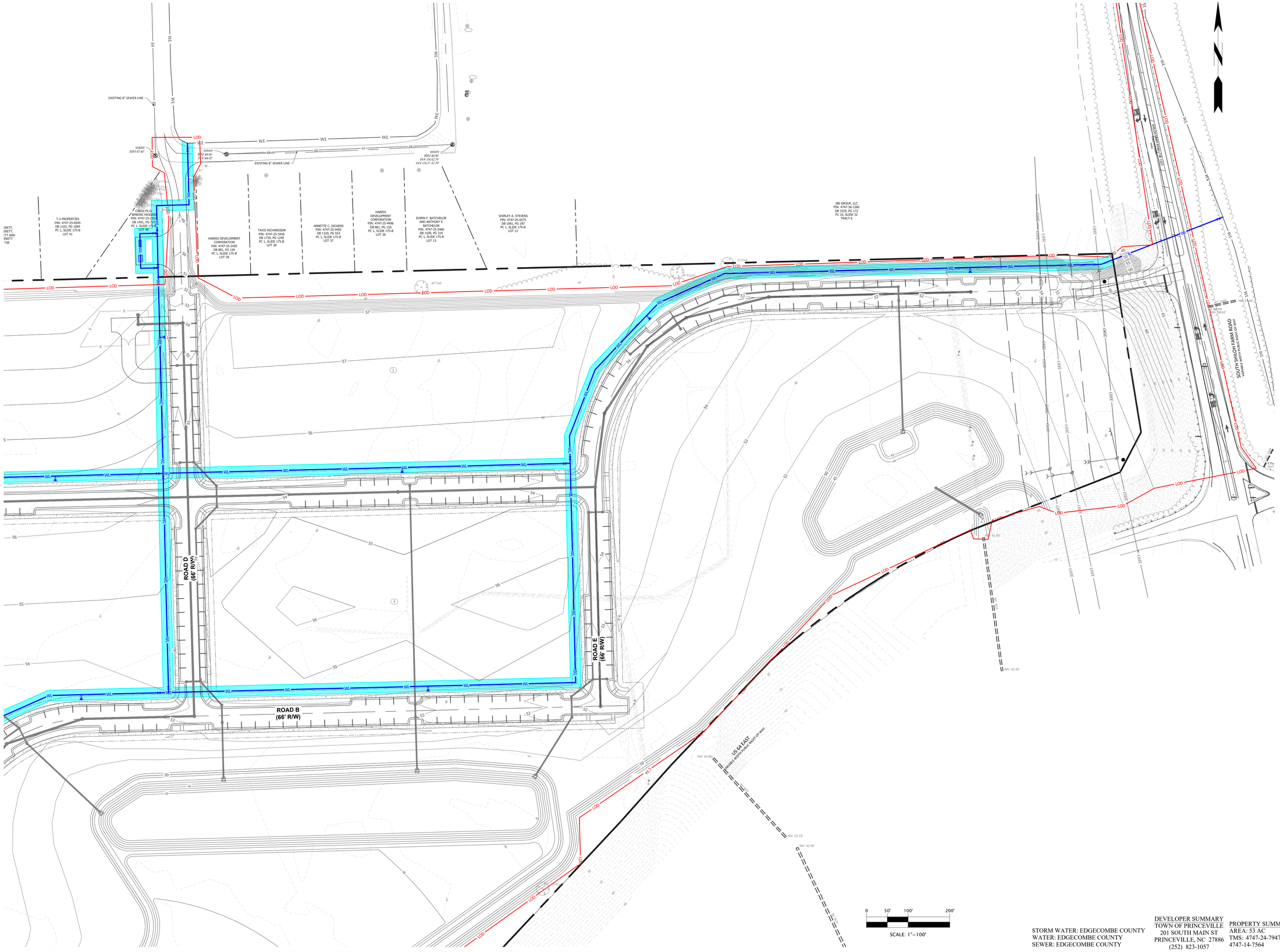

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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License Number : F-0115

EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE WATER PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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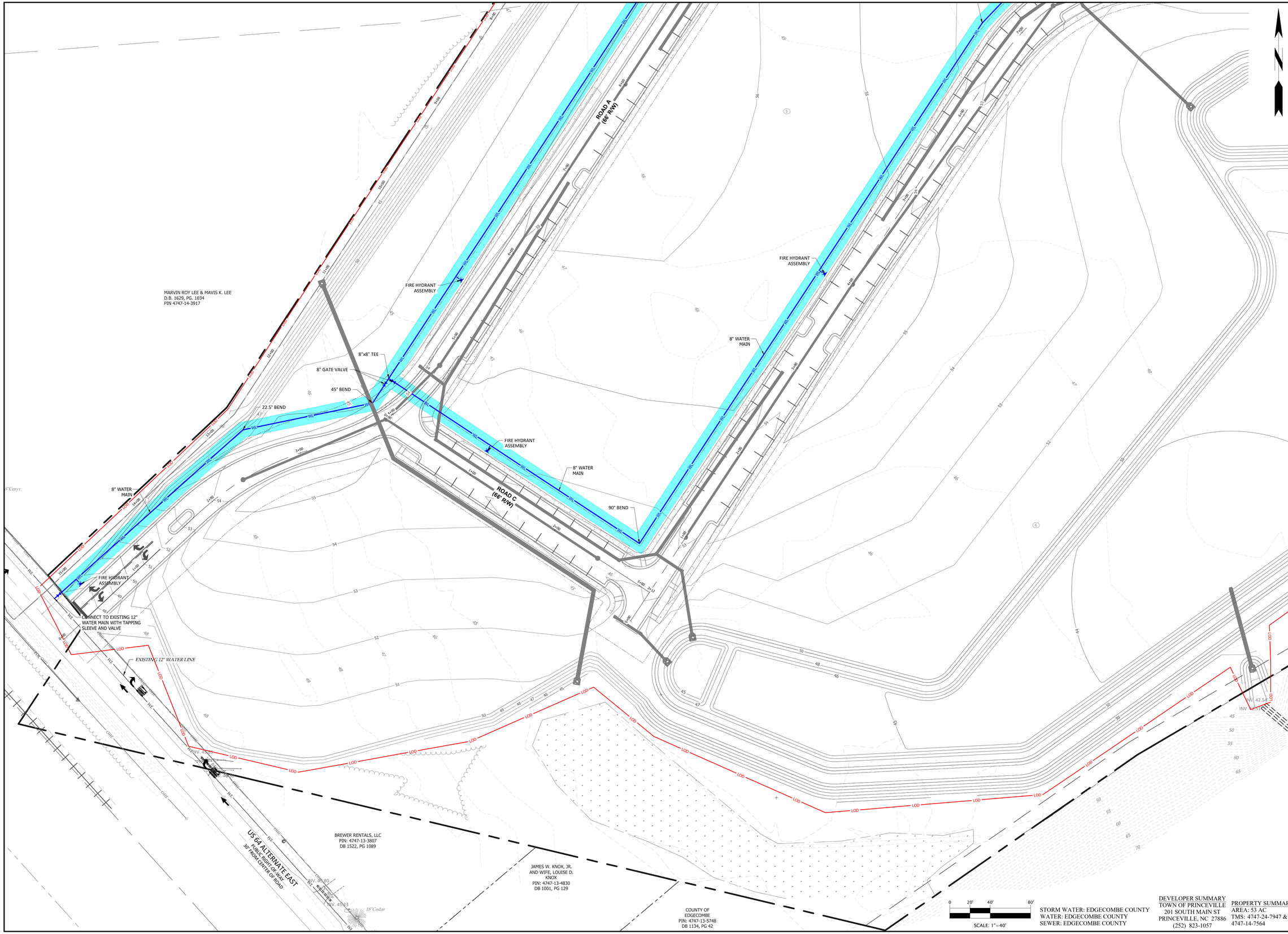
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.02

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-wtr.dwg JNIXON 7/13/2023 4:13 PM



STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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TMS: 4747-24-7947 & 4747-14-7564

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NORTH CAROLINA
EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.03

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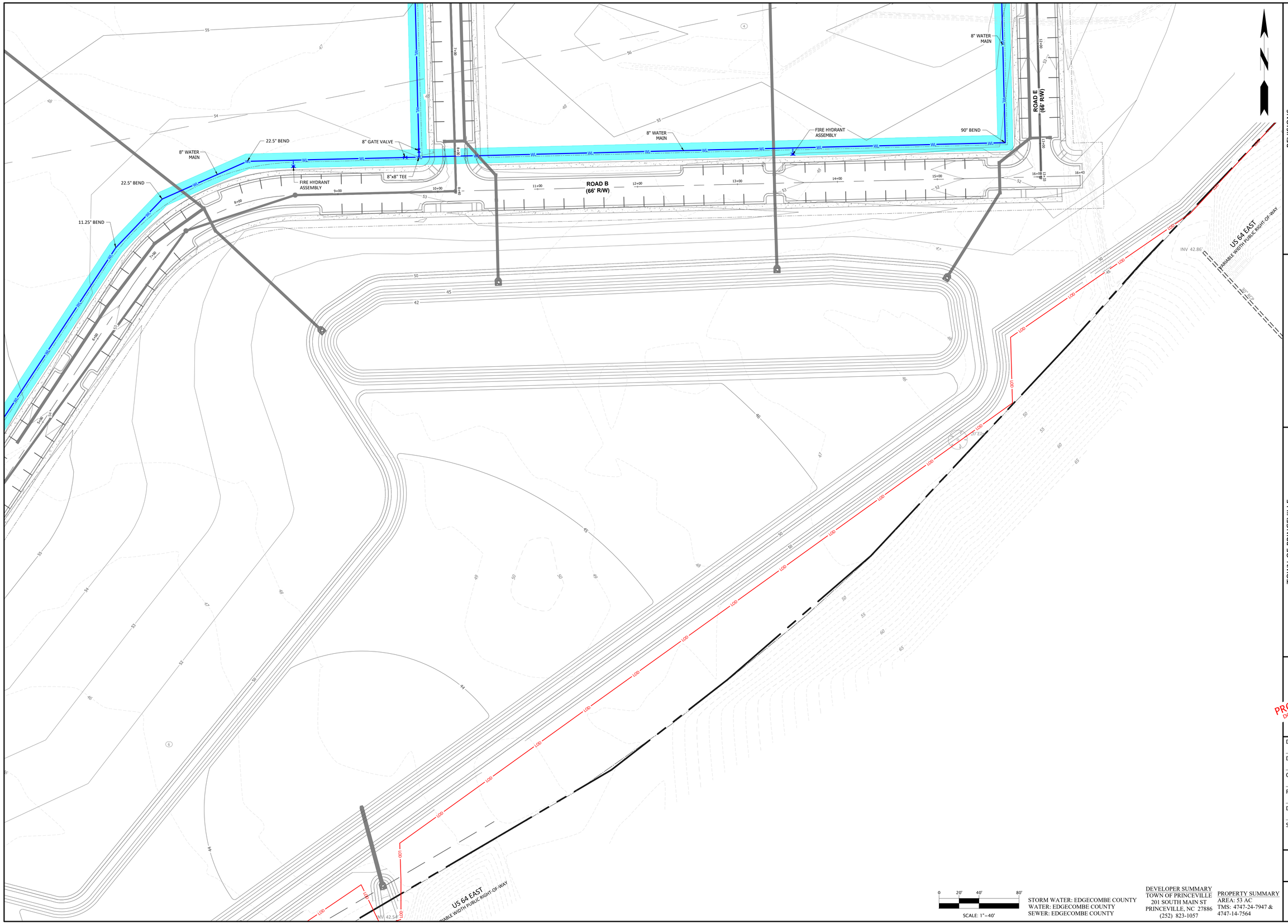

0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-4.04

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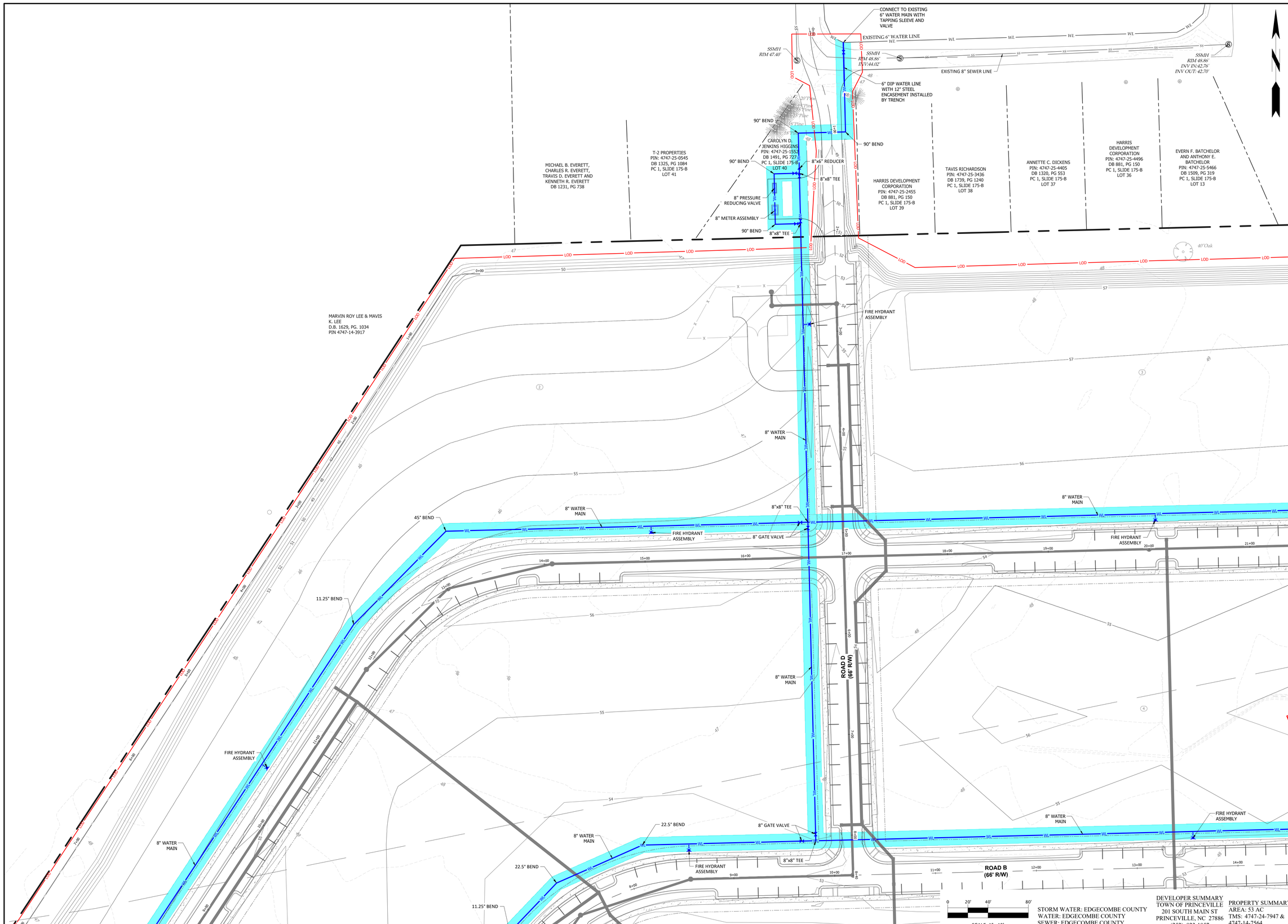

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NORTH CAROLINA
EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
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C-4.05

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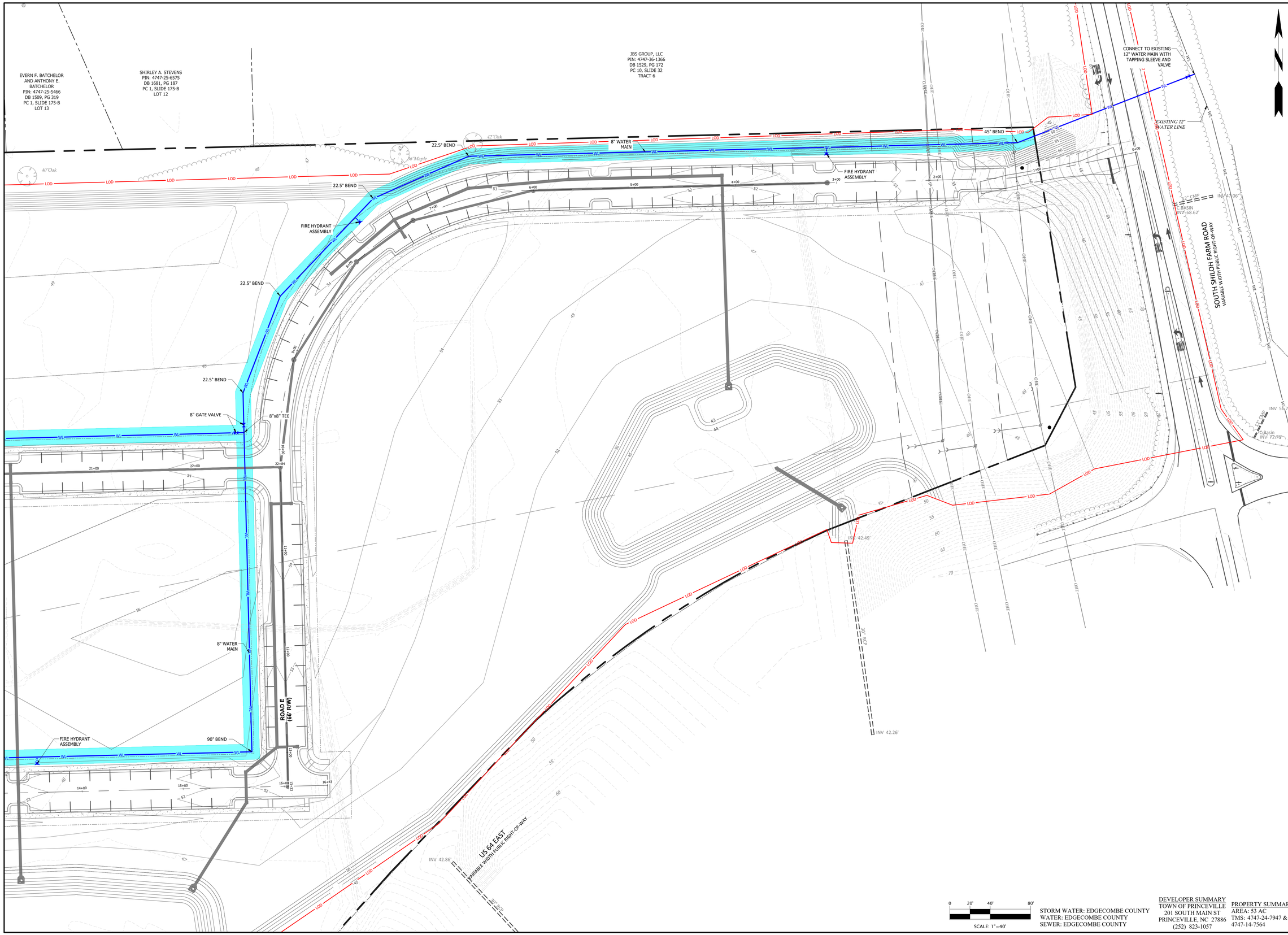

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

REVISIONS

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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WATER PLAN (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-4.06

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OVERALL WASTEWATER

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

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PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-5.00

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STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 & 4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
INTERMEDIATE WASTEWATER PLAN (1 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

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DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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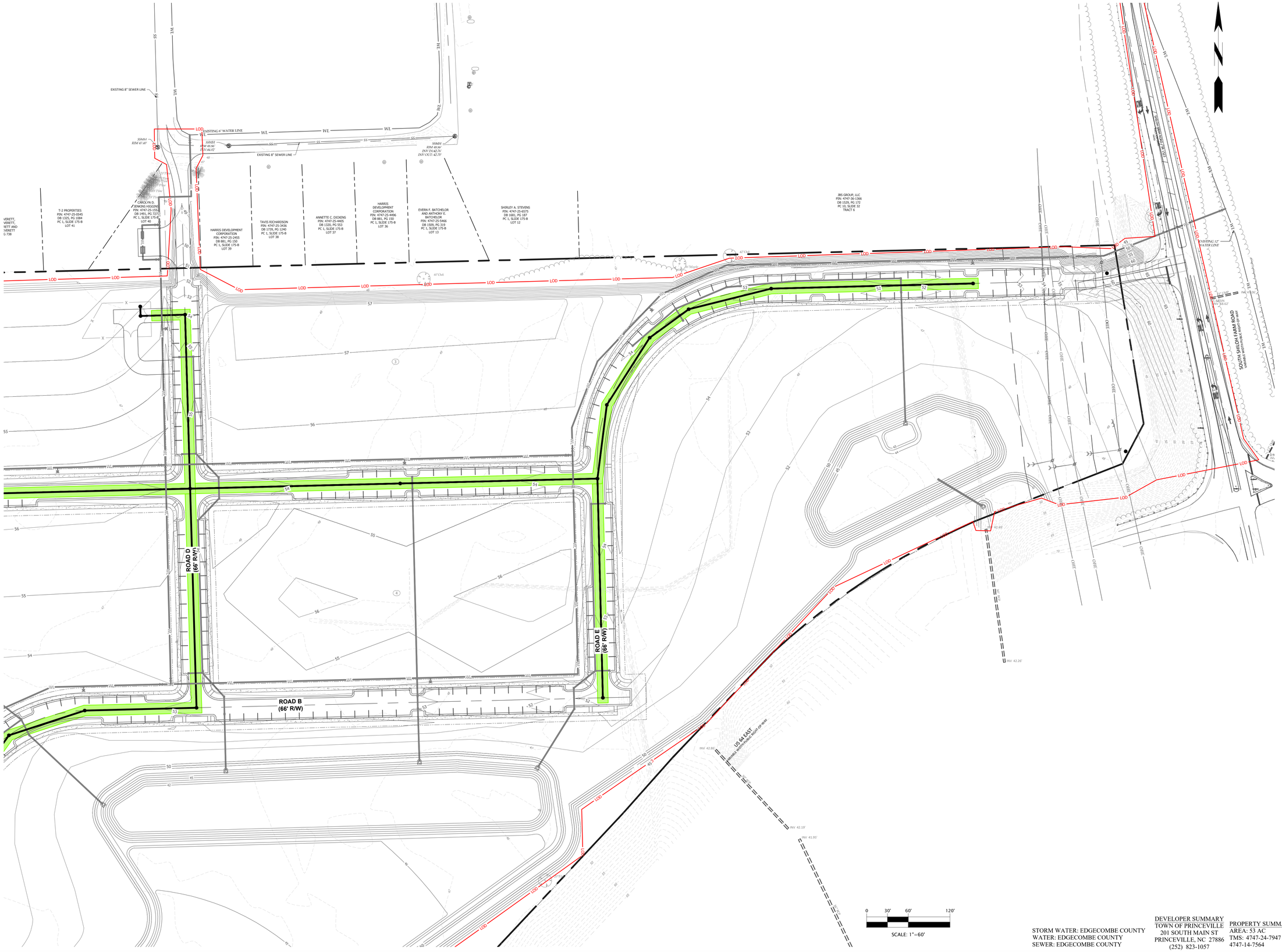

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

INTERMEDIATE WASTEWATER PLAN (2 OF 2)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

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DATE:	JULY 13, 2023
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C-5.02

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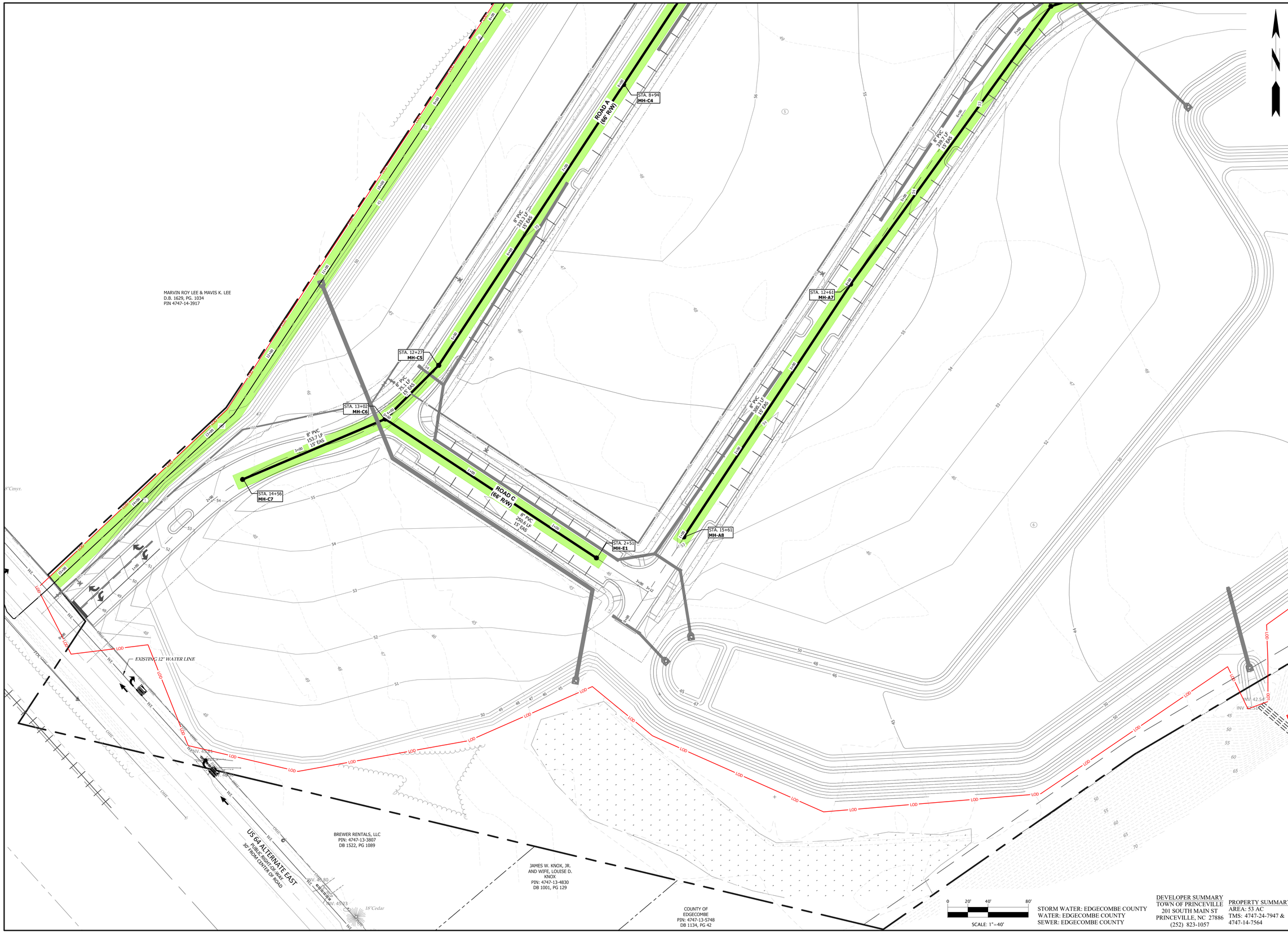

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (1 OF 4)

PROGRESS DRAWING
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C-5.03

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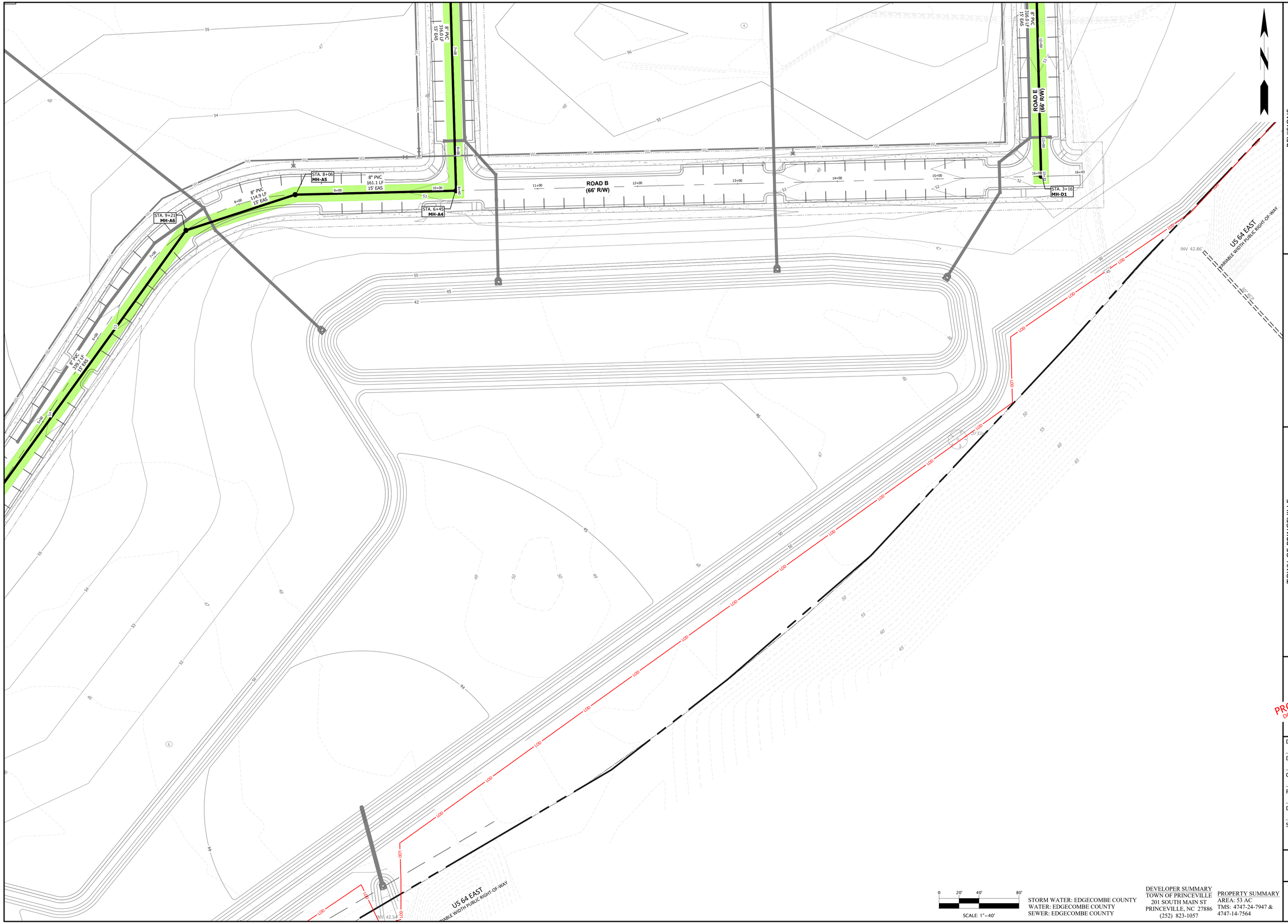

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0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

WASTEWATER PLAN (2 OF 4)

PROGRESS DRAWING
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C-5.04

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (3 OF 4)

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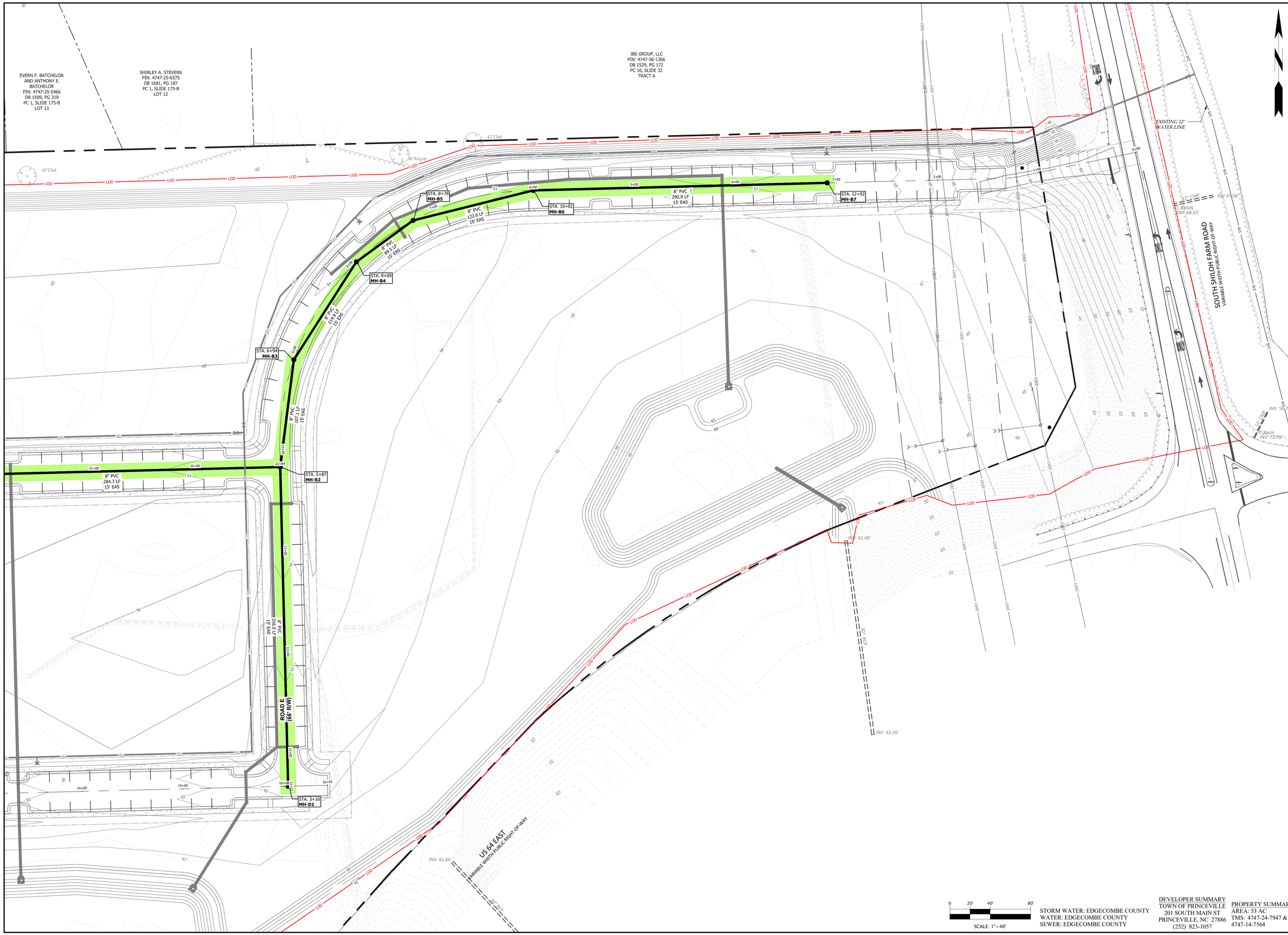

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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PRINCEVILLE, NC 27886
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
WASTEWATER PLAN (4 OF 4)

PROGRESS DRAWING
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C-5.06

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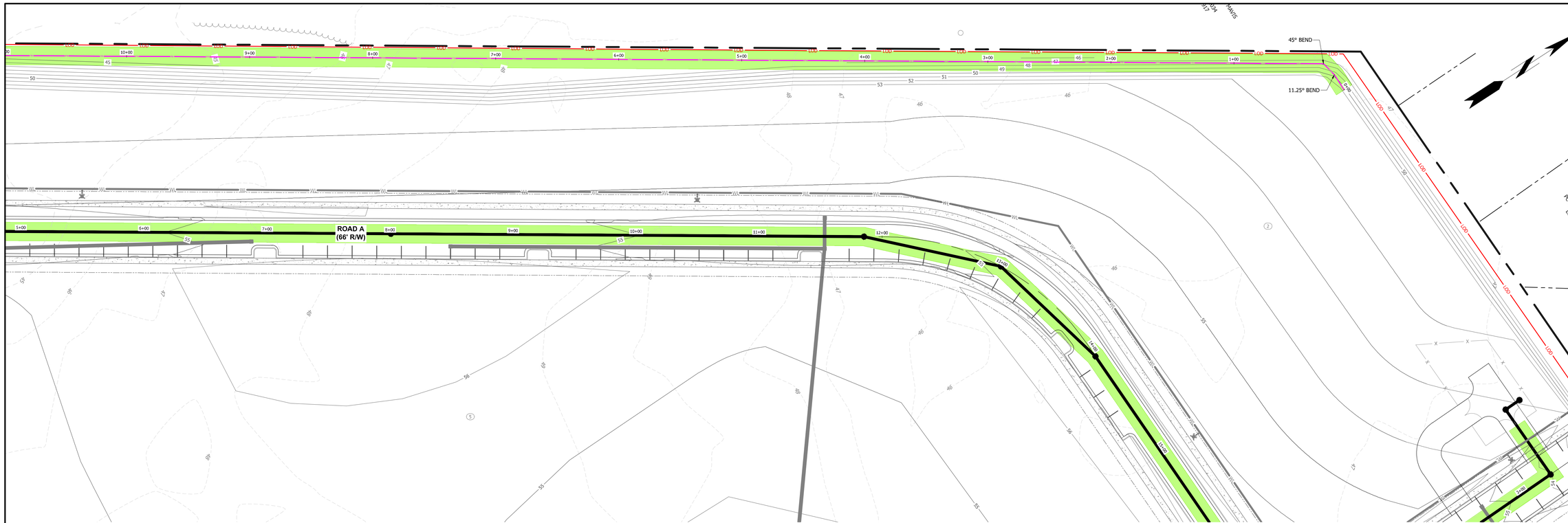

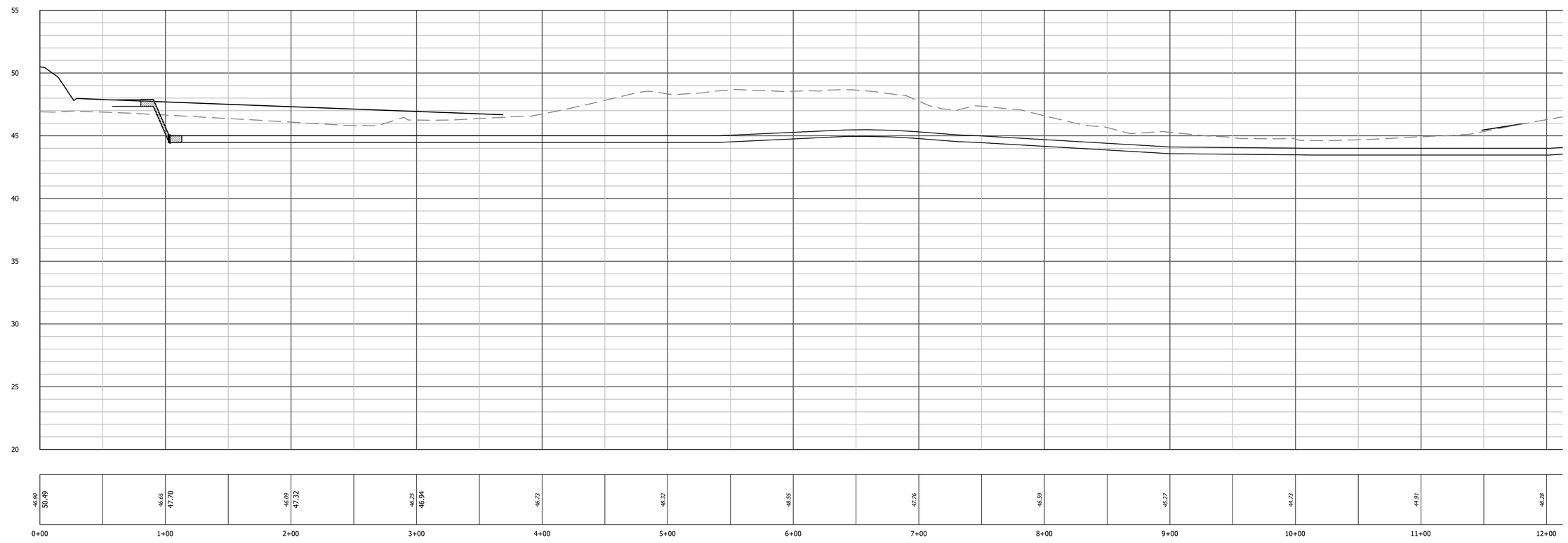

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

0 20' 40' 80'
SCALE: 1"=40'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (1 OF 10)

PROGRESS DRAWING
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DESIGNED BY: JFS
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CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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C-6.00

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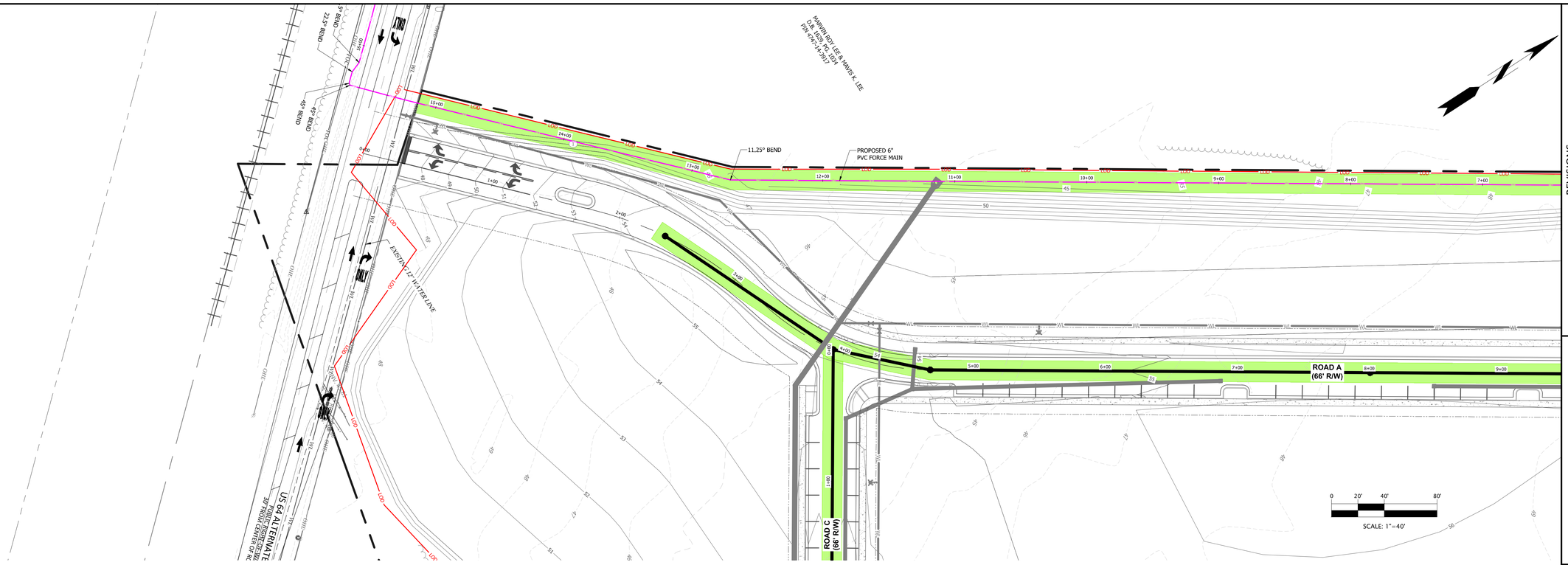

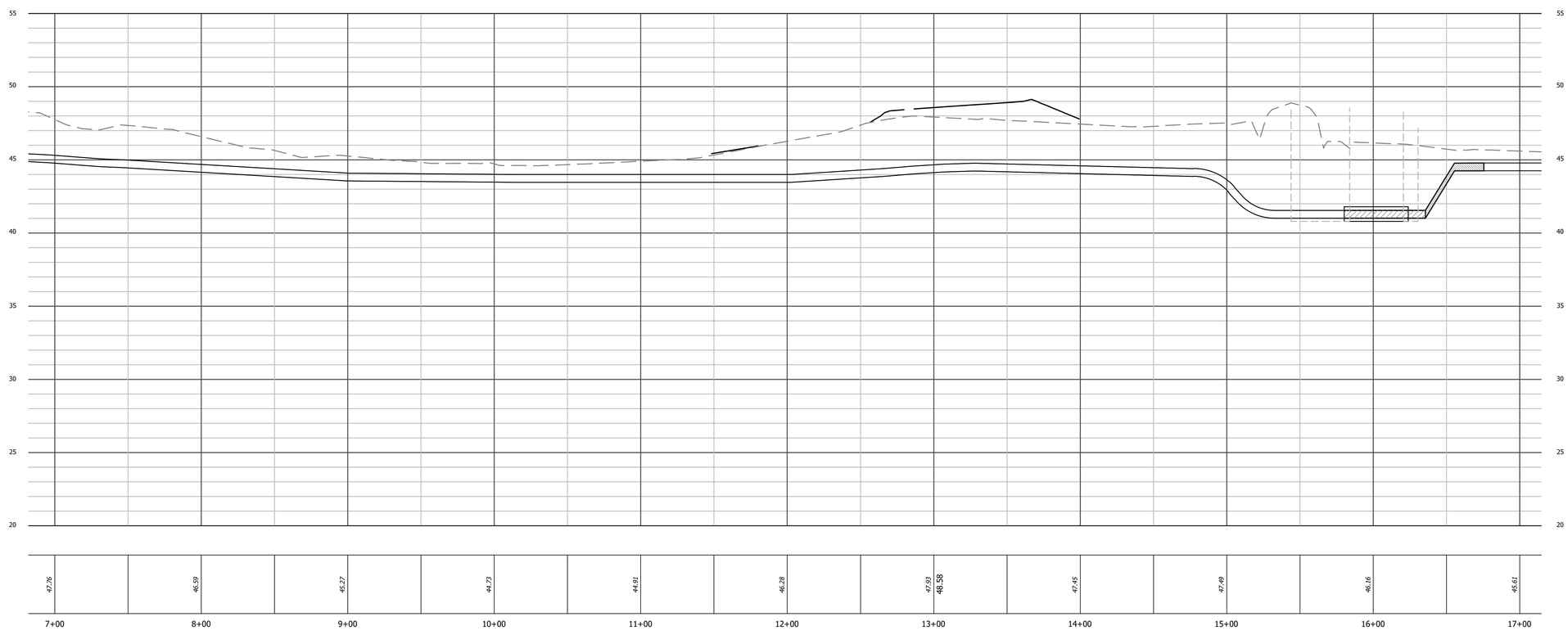

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (2 OF 10)

PROGRESS DRAWING
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DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

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C-6.01

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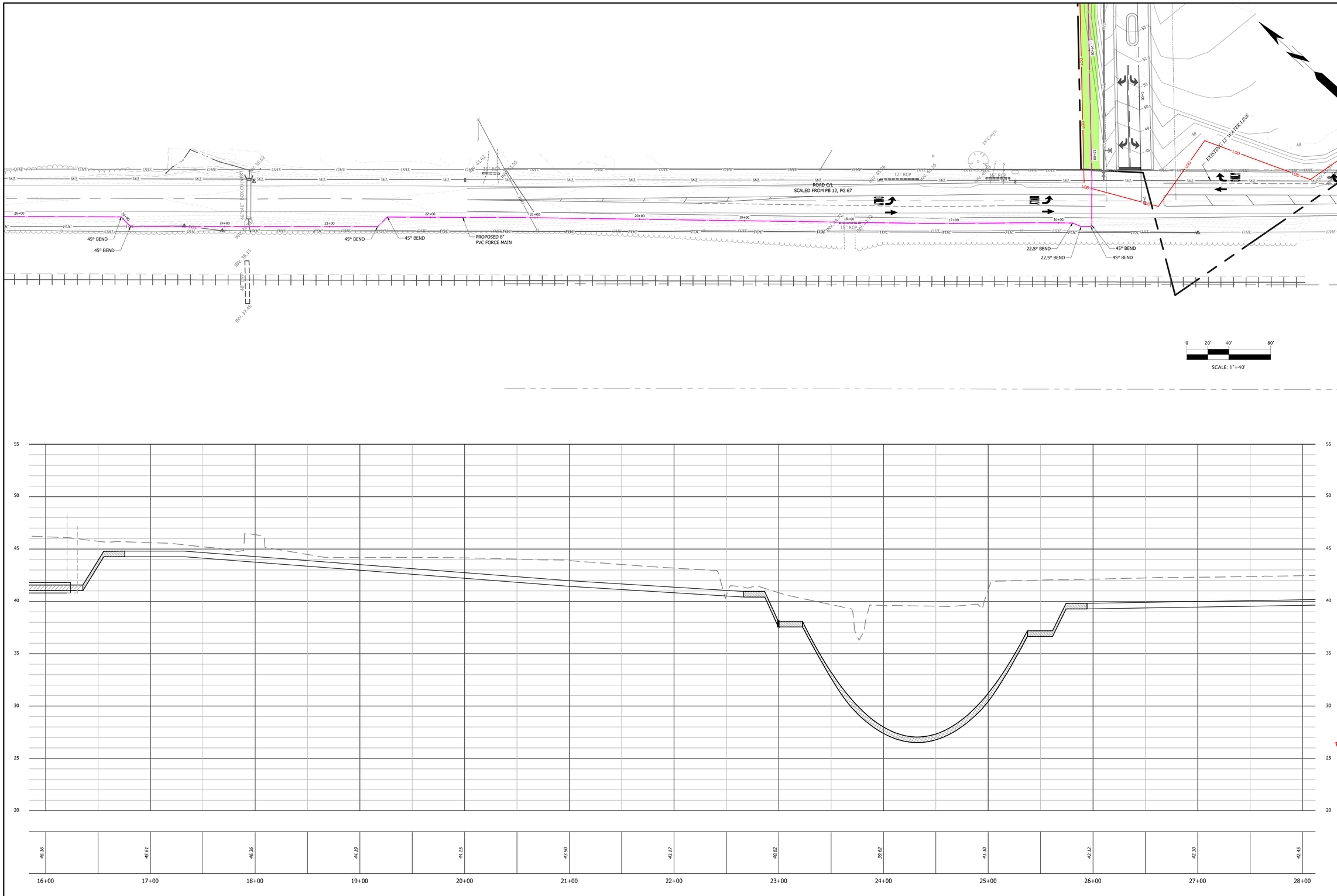

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (3 OF 10)

PROGRESS DRAWING
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SCALE: AS NOTED

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C-6.02

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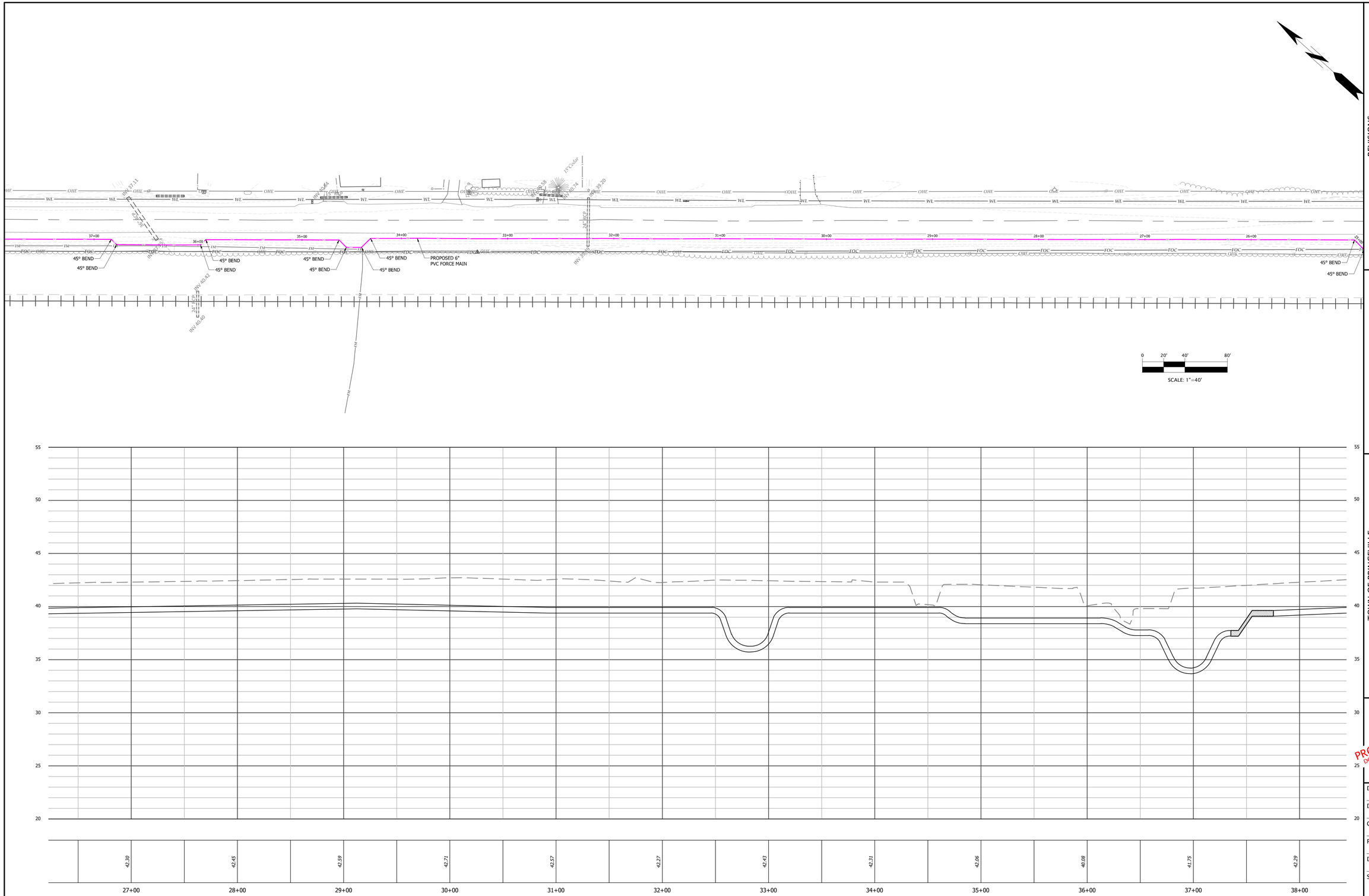

FORCE MAIN
SANITARY SEWER PROFILE

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VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
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NORTH CAROLINA
TOWN OF PRINCEVILLE
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (4 OF 10)

PROGRESS DRAWING
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CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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C-6.03

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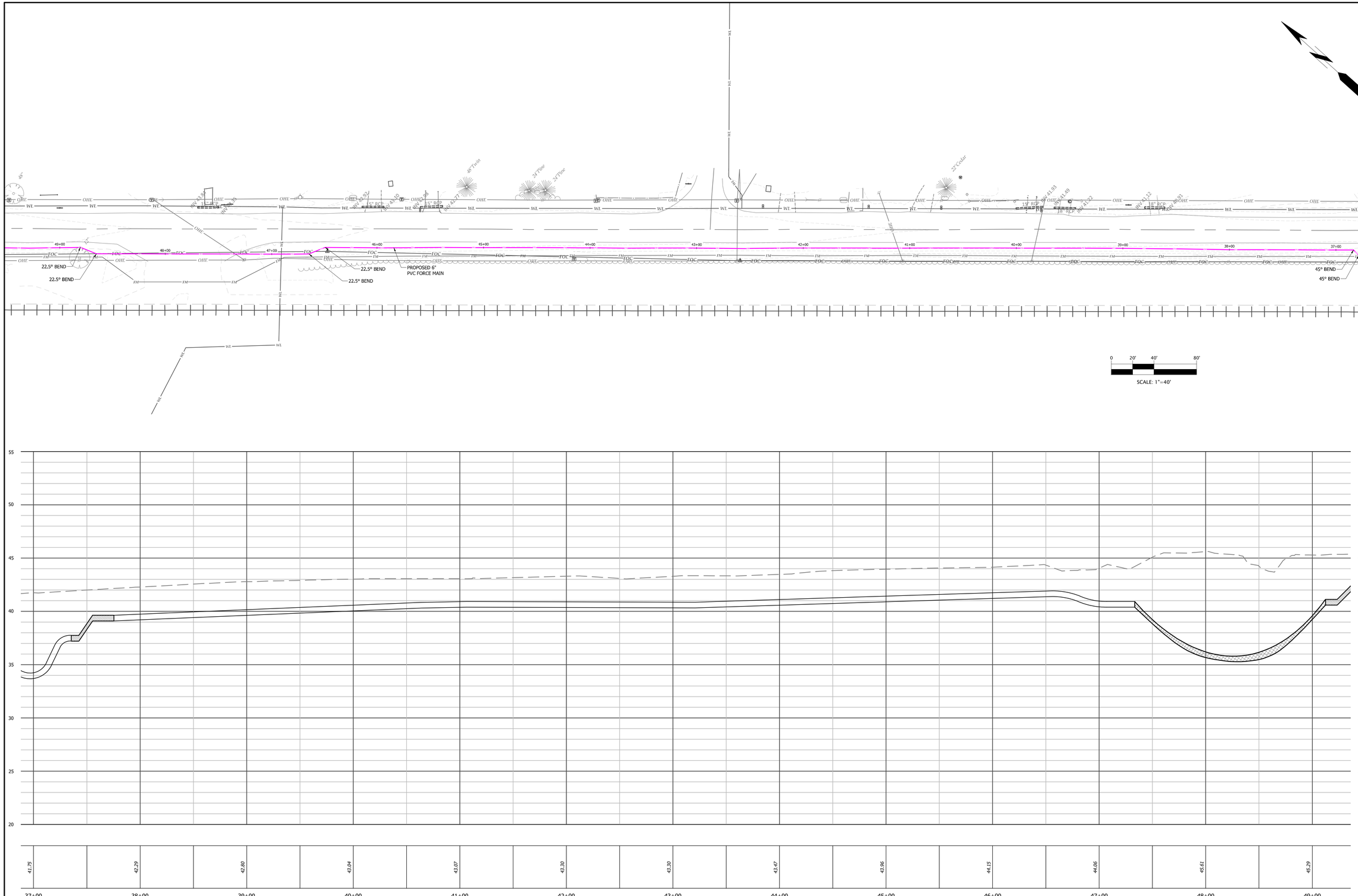

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (5 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
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CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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C-6.04

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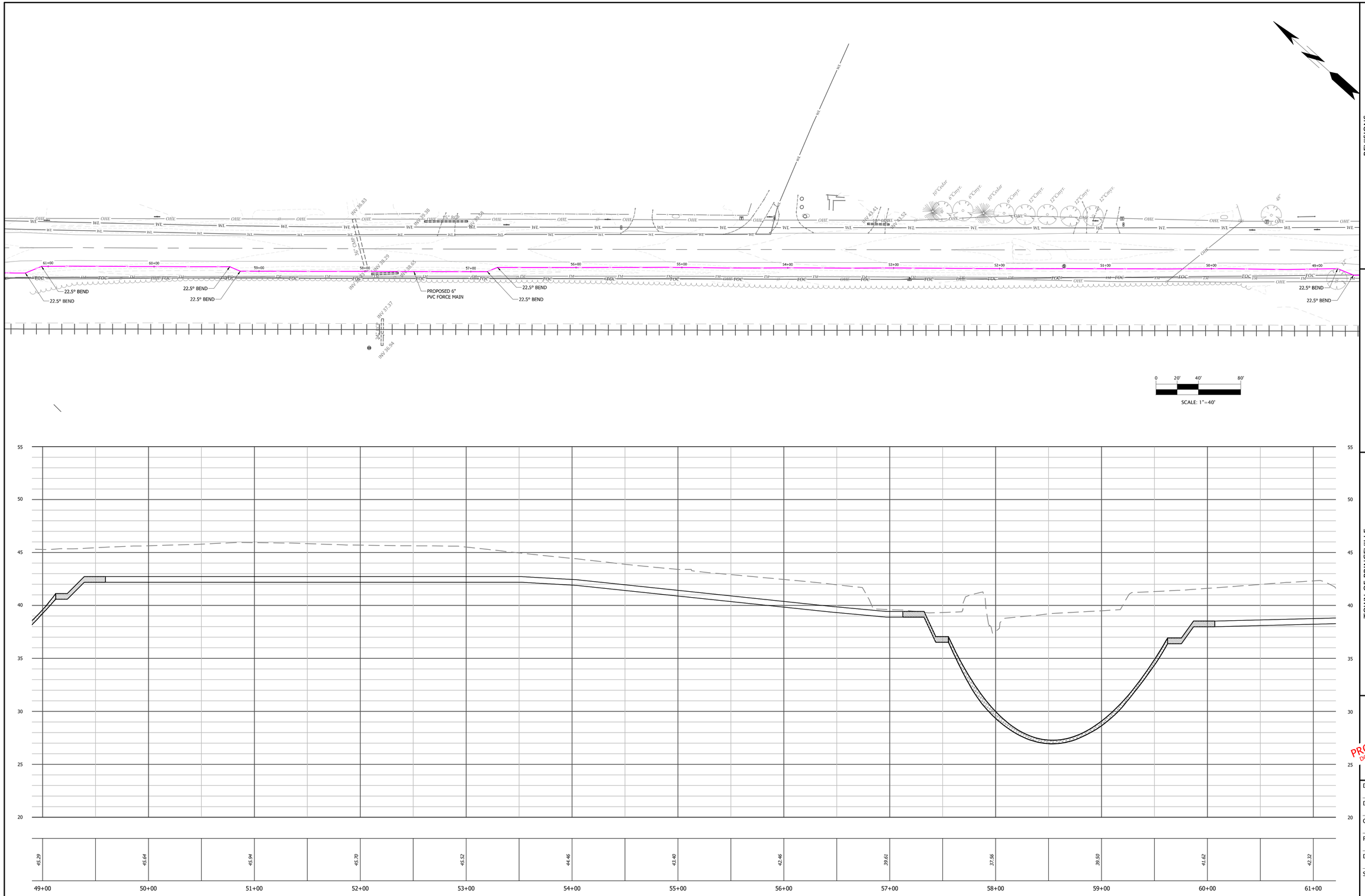

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

OFFSITE FORCE MAIN PLAN & PROFILE (6 OF 10)

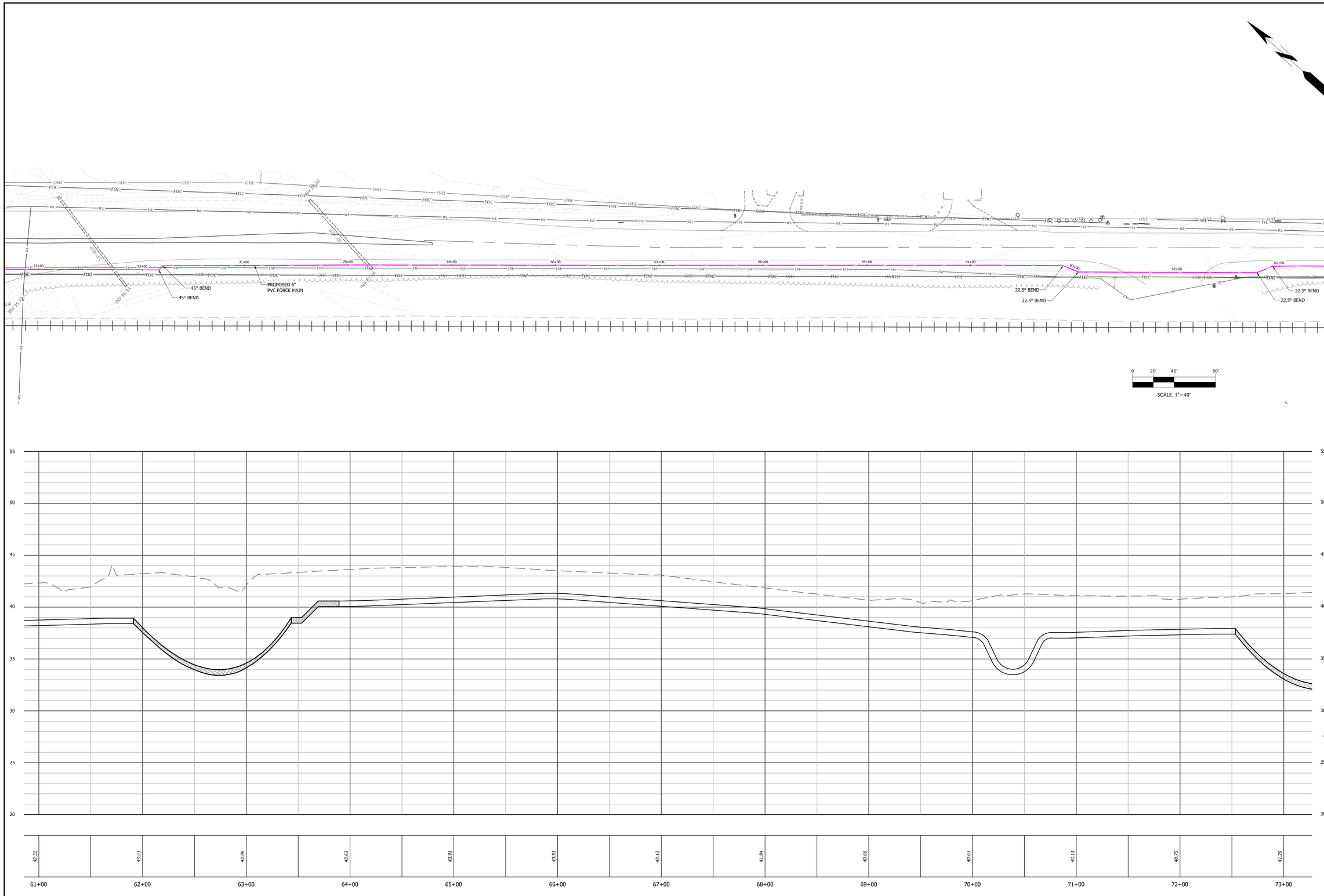
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.05

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-OFFSITE WWTR.dwg CTHATCHER 7/13/2023 4:21 PM



FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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(252) 757-1096 • thewootencompany.com
License Number : F-0115

TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (7 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.06

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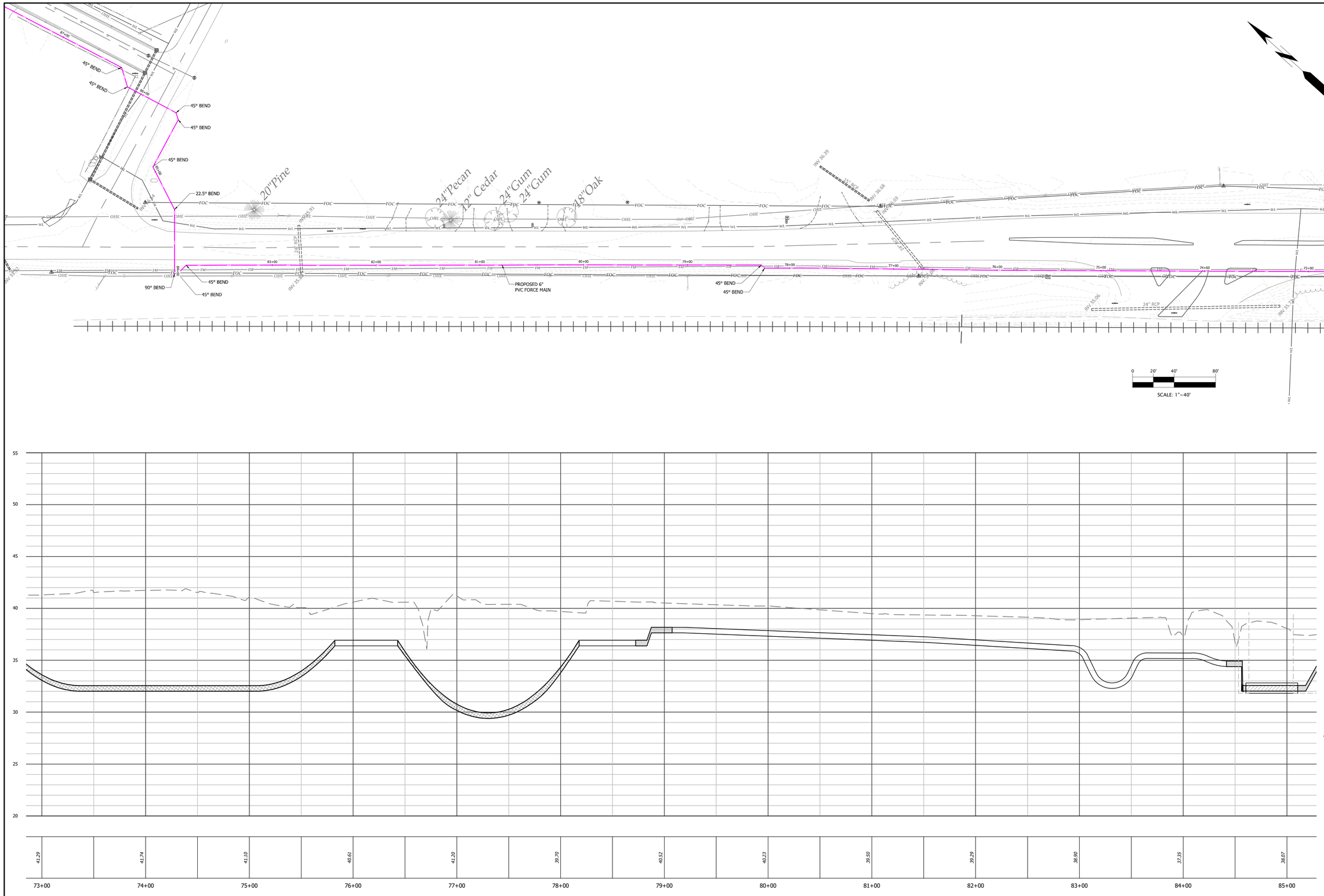

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (8 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.07

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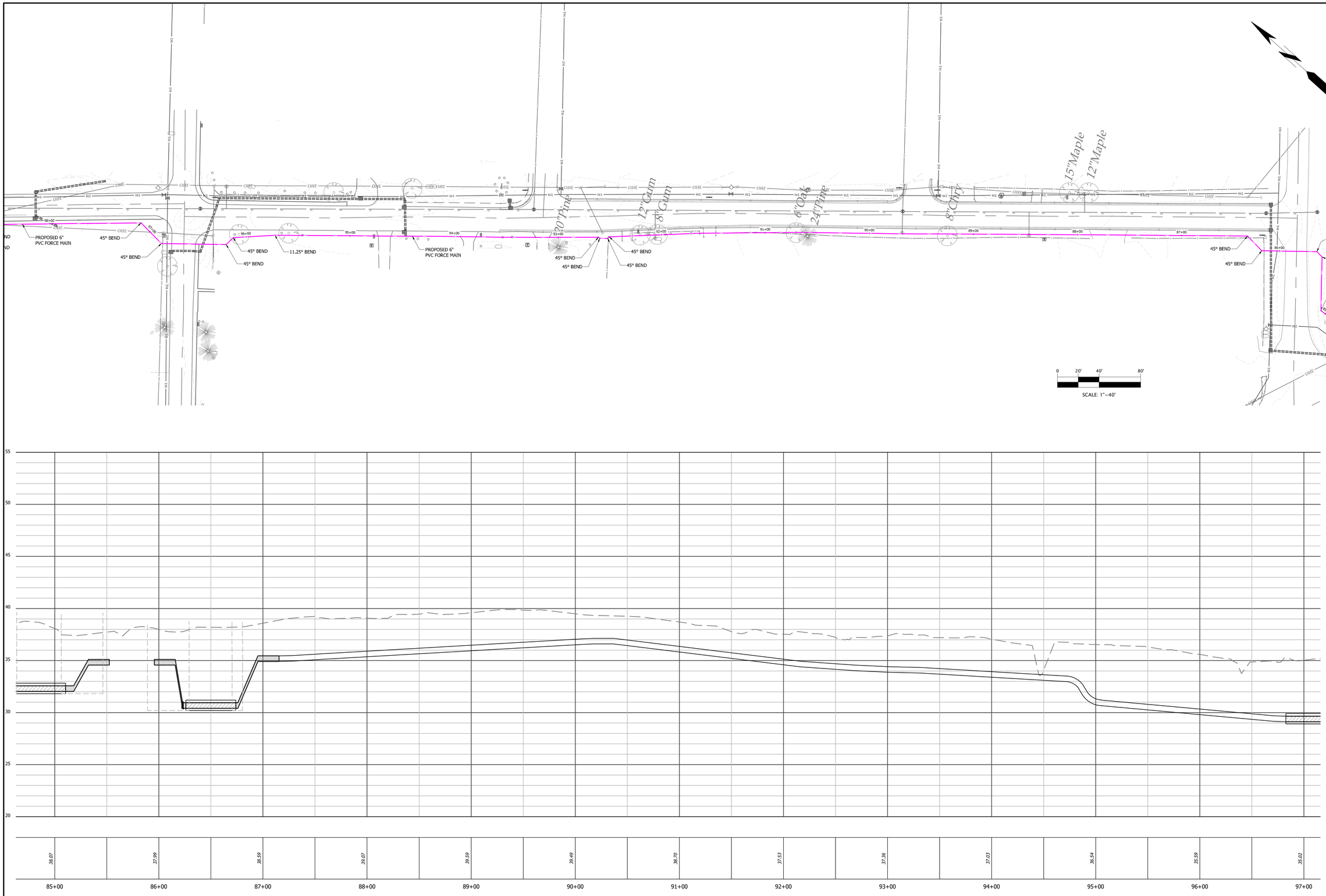

FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (9 OF 10)

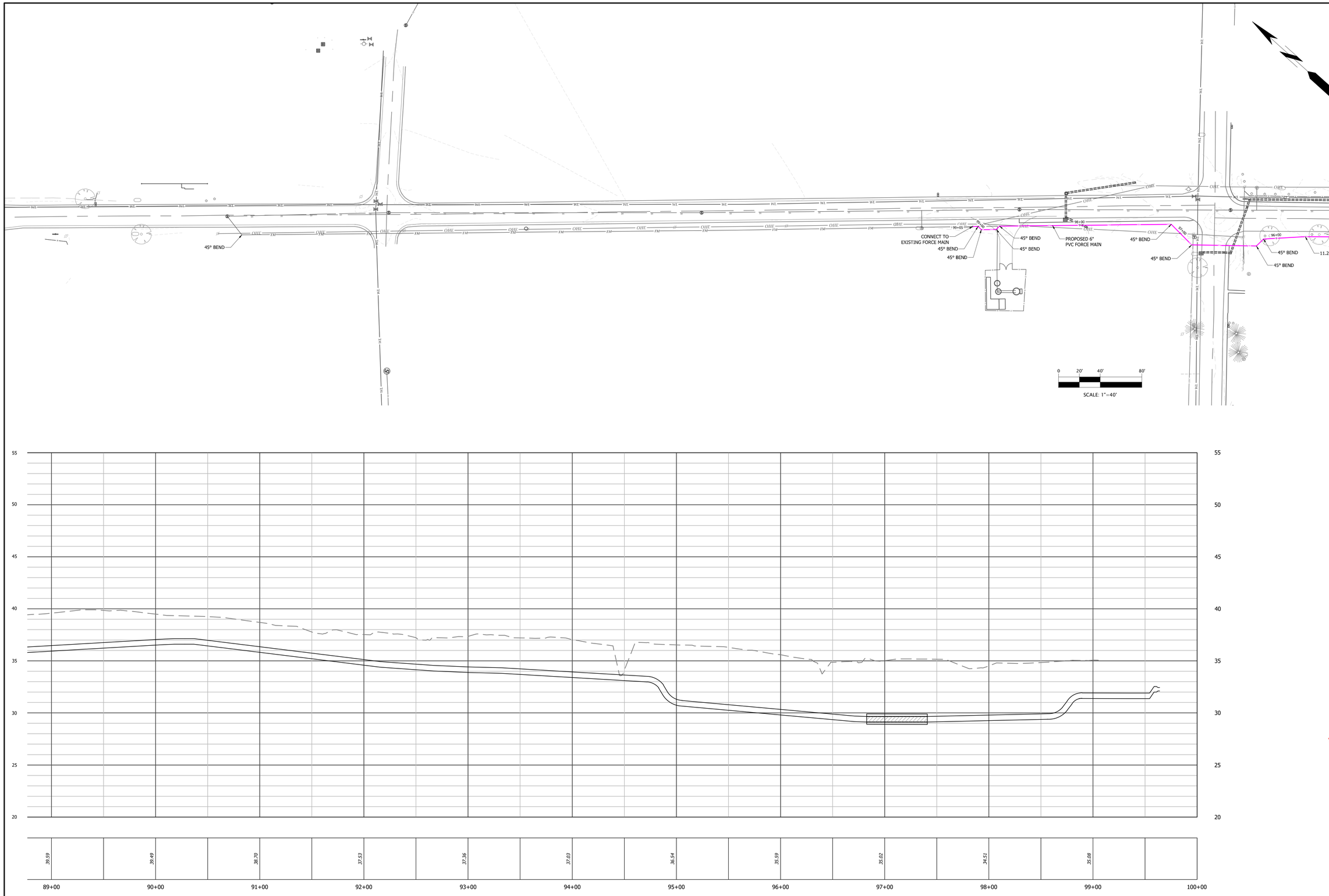
PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.08

T:\Projects\Princeville-2849\L-53_AcreProject_PhaseOne__Columbia_CADD\A-Construction Drawings\Sheets\2849-OFFSITE WWTR.dwg CTHATCHER 7/13/2023 4:22 PM



FORCE MAIN
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

REVISIONS

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TOWN OF PRINCEVILLE
NORTH CAROLINA
EDGECOMBE COUNTY
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE FORCE MAIN PLAN & PROFILE (10 OF 10)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-6.09

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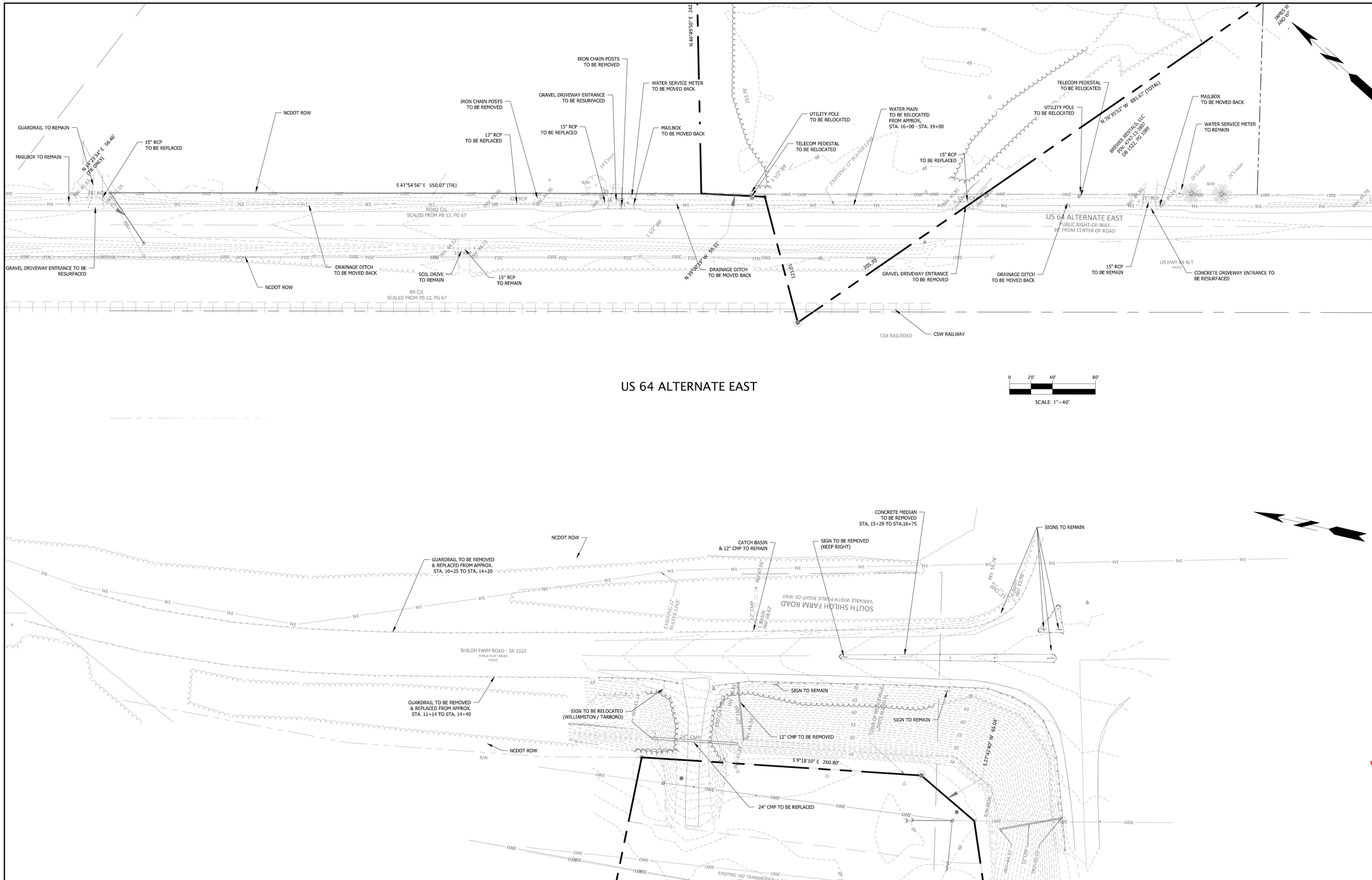

US 64 ALTERNATE EAST

SHILOH FARM ROAD

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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EDGECOMBE COUNTY
NORTH CAROLINA
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE EXISTING CONDITIONS & DEMOLITION PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-7.00

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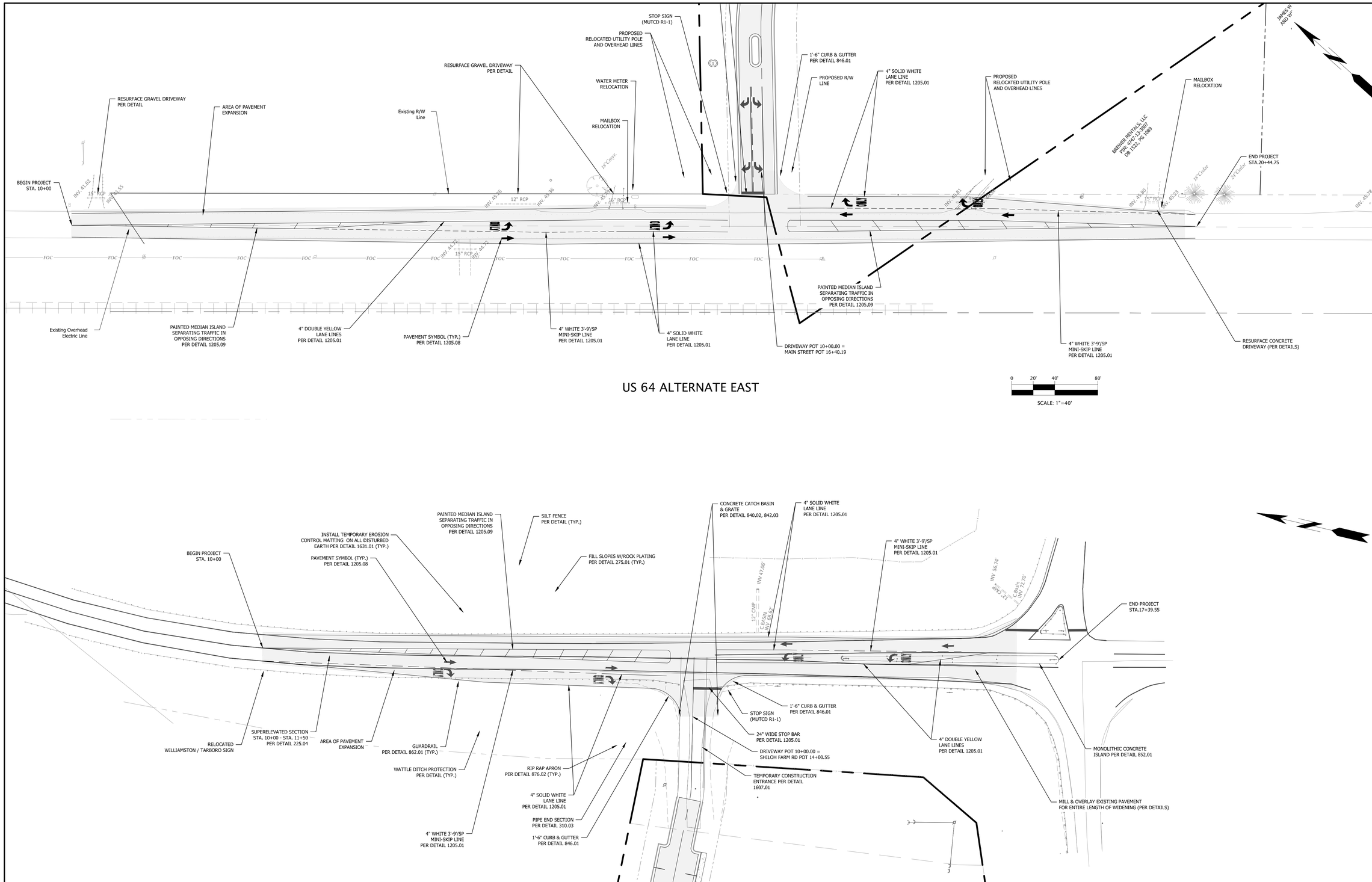

STORM WATER: EDGECOMBE COUNTY
WATER: EDGECOMBE COUNTY
SEWER: EDGECOMBE COUNTY

DEVELOPER SUMMARY
TOWN OF PRINCEVILLE
201 SOUTH MAIN ST
PRINCEVILLE, NC 27886
(252) 823-1057

PROPERTY SUMMARY
AREA: 53 AC
TMS: 4747-24-7947 &
4747-14-7564

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
OFFSITE ROADWAY IMPROVEMENTS PLAN

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-7.01

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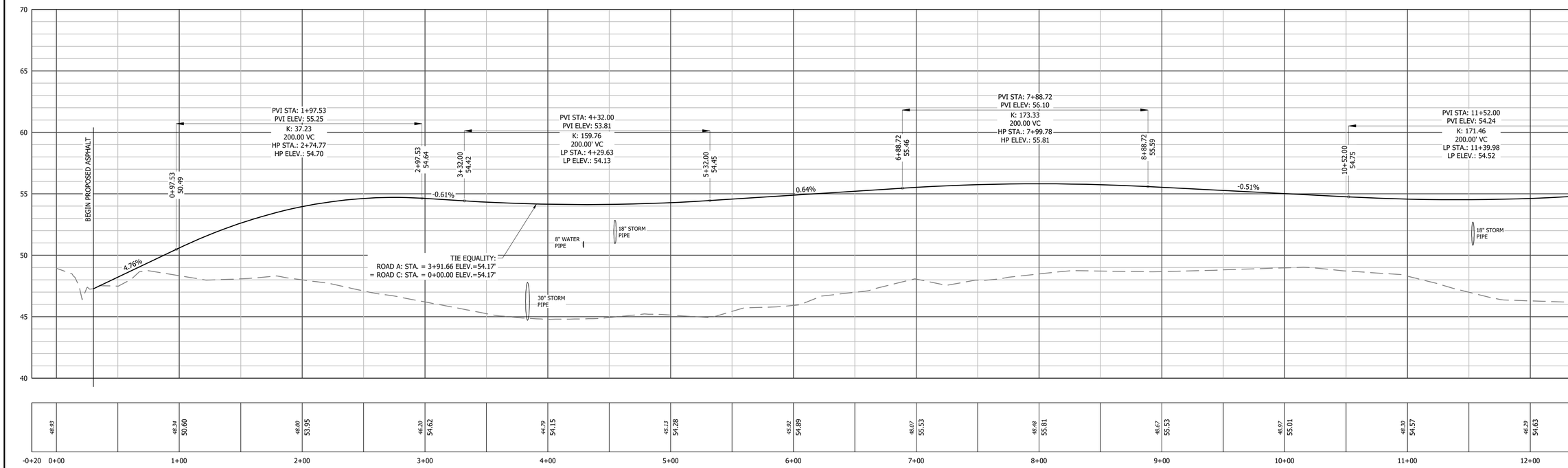
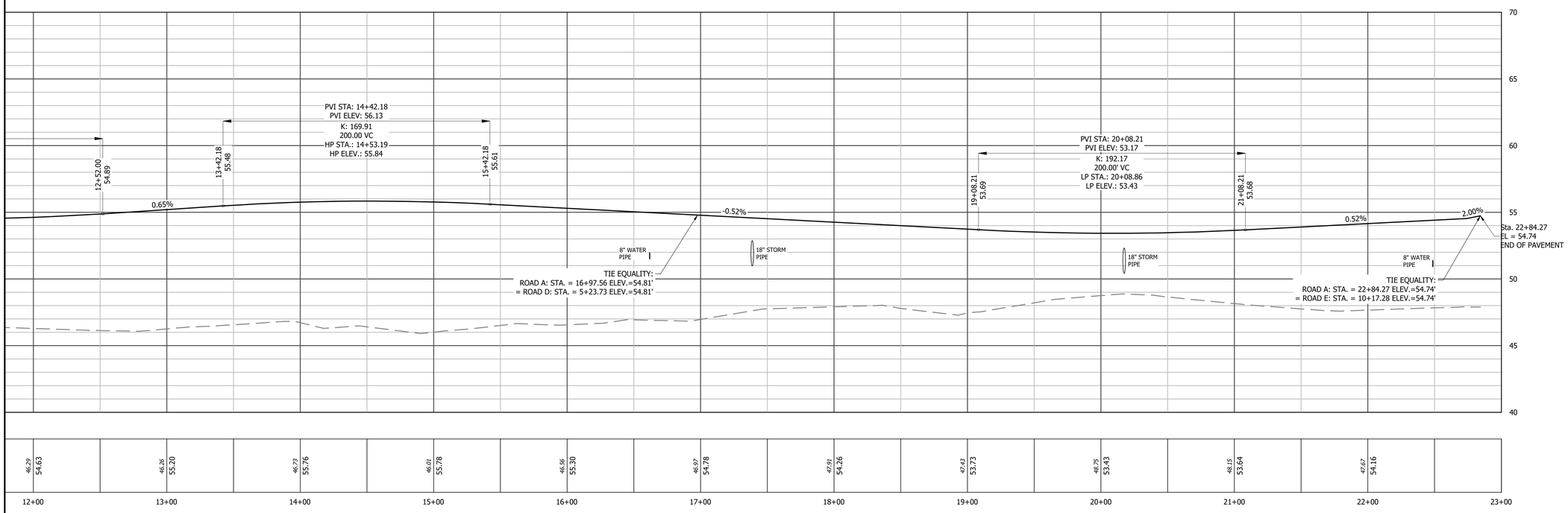


ROAD A
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



EXISTING GRADE
PROPOSED GRADE

ROAD A
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (1 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.00

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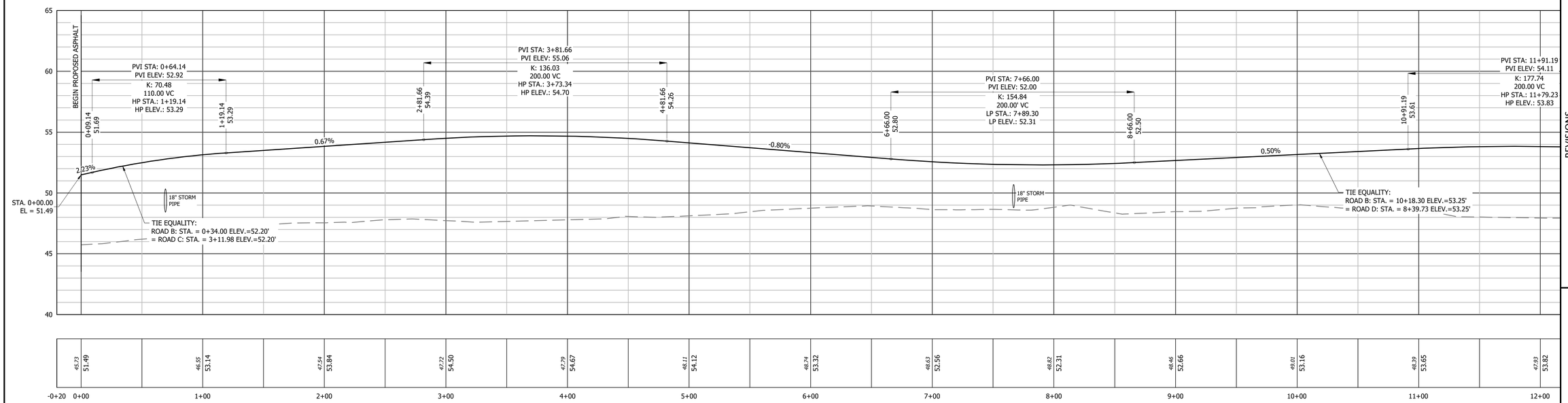
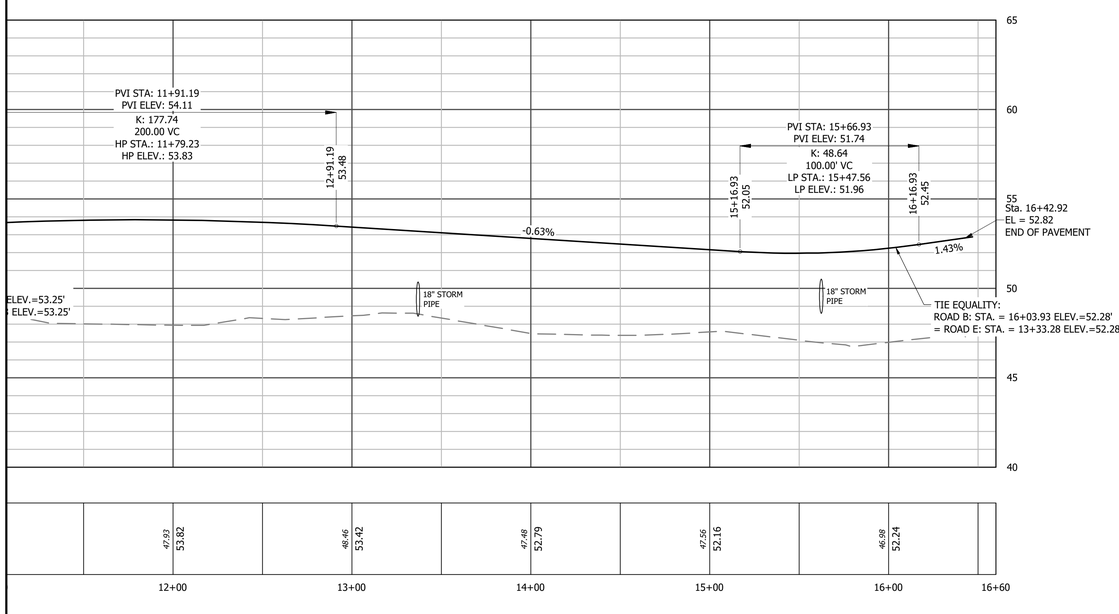


ROAD B
ROADWAY CENTERLINE PROFILE

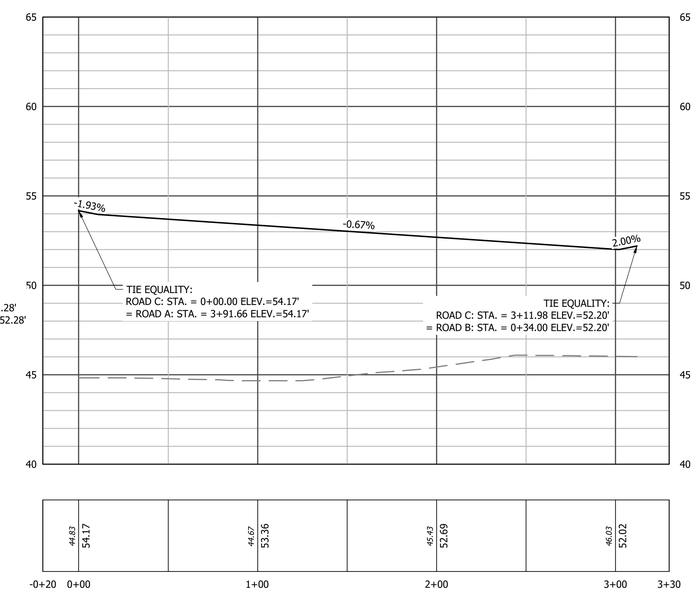
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE



ROAD B
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



ROAD C
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (2 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.01

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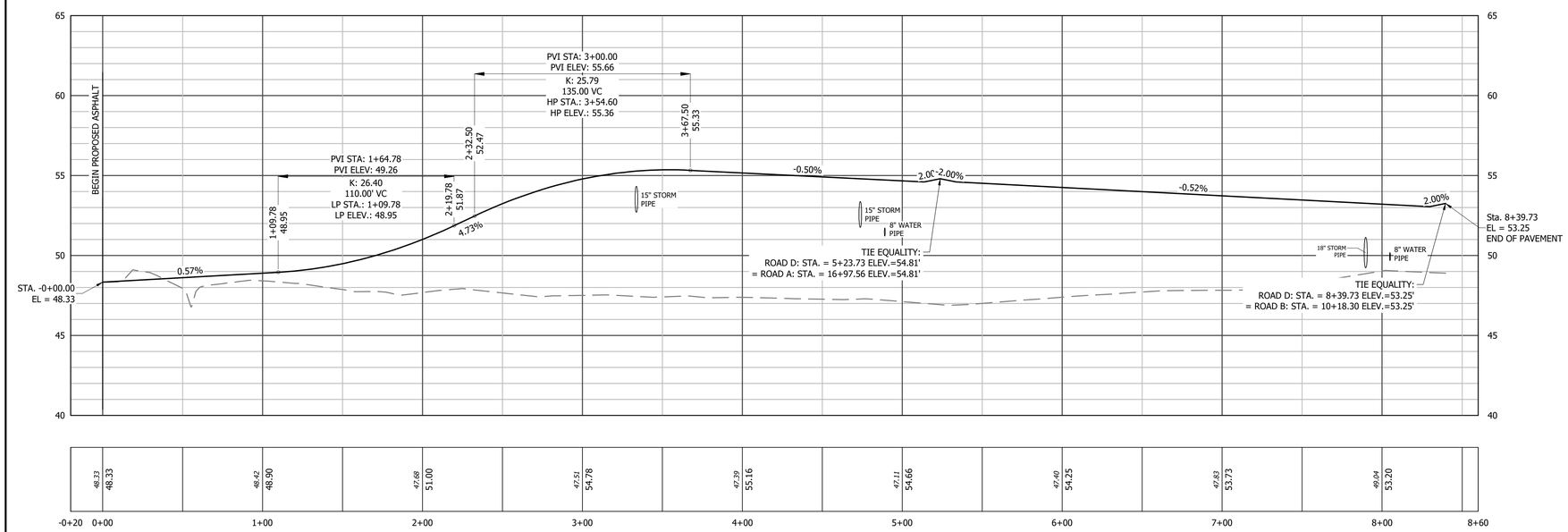
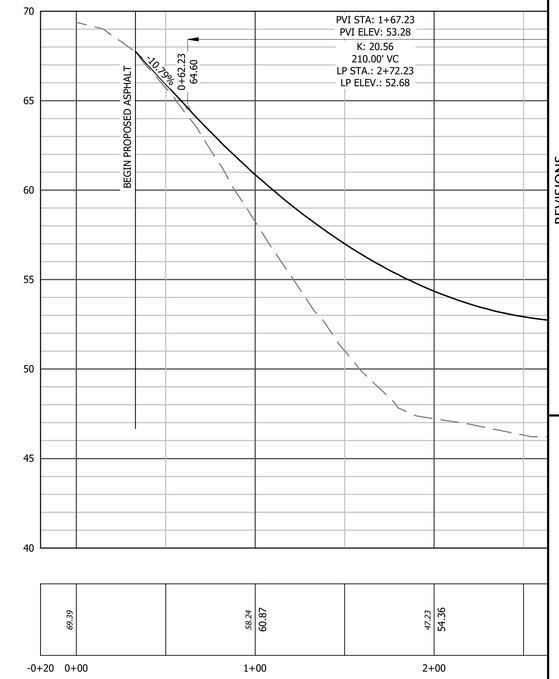


ROAD D
ROADWAY CENTERLINE PROFILE

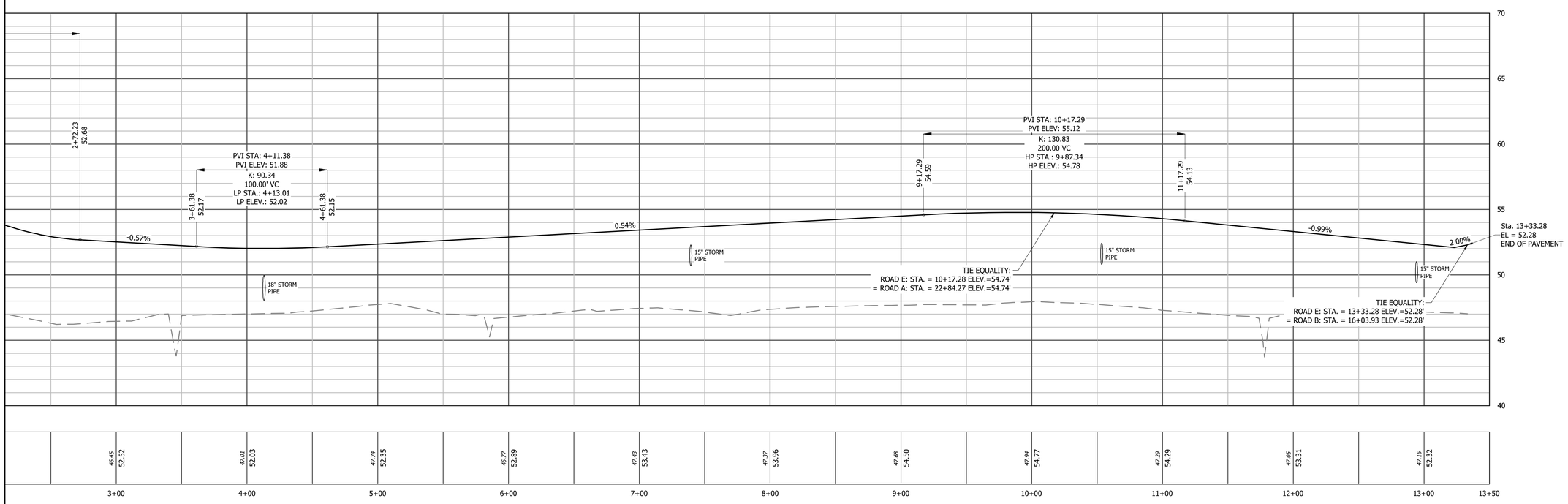
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE



ROAD E
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



ROAD E
ROADWAY CENTERLINE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
ROAD PROFILE (3 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-8.02

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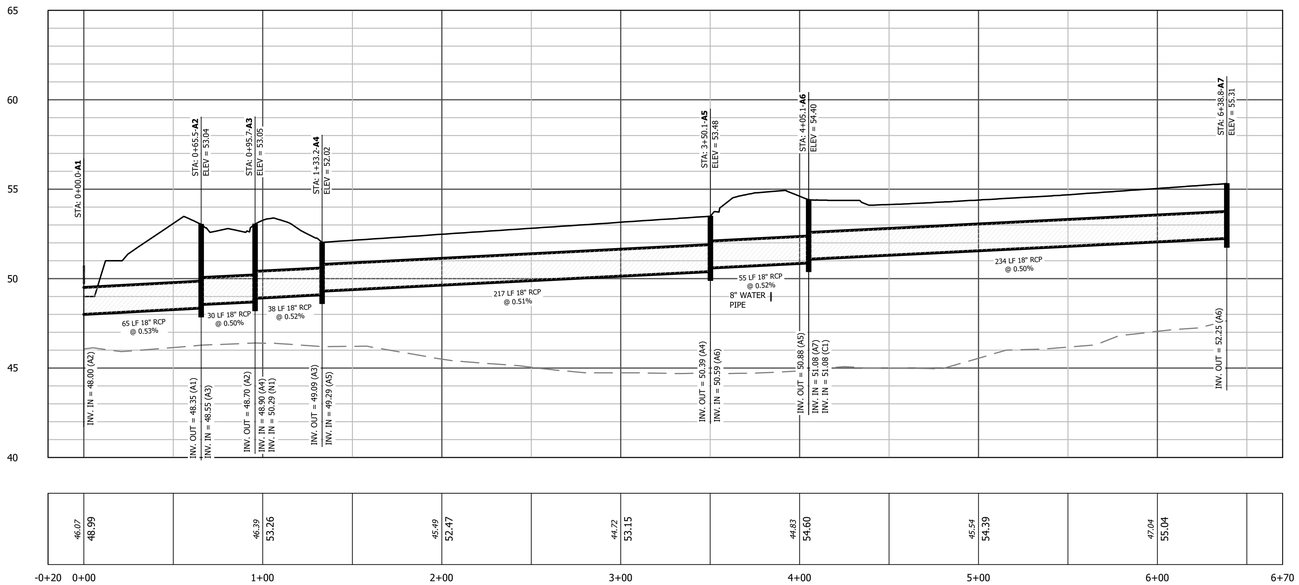
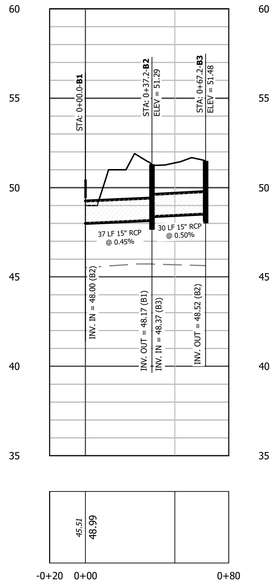


SD LINE A
STORM DRAINAGE PROFILE

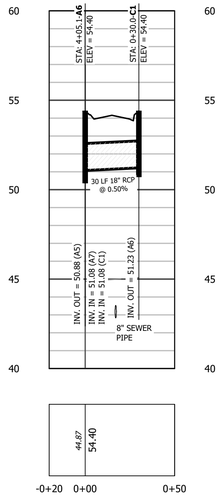
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



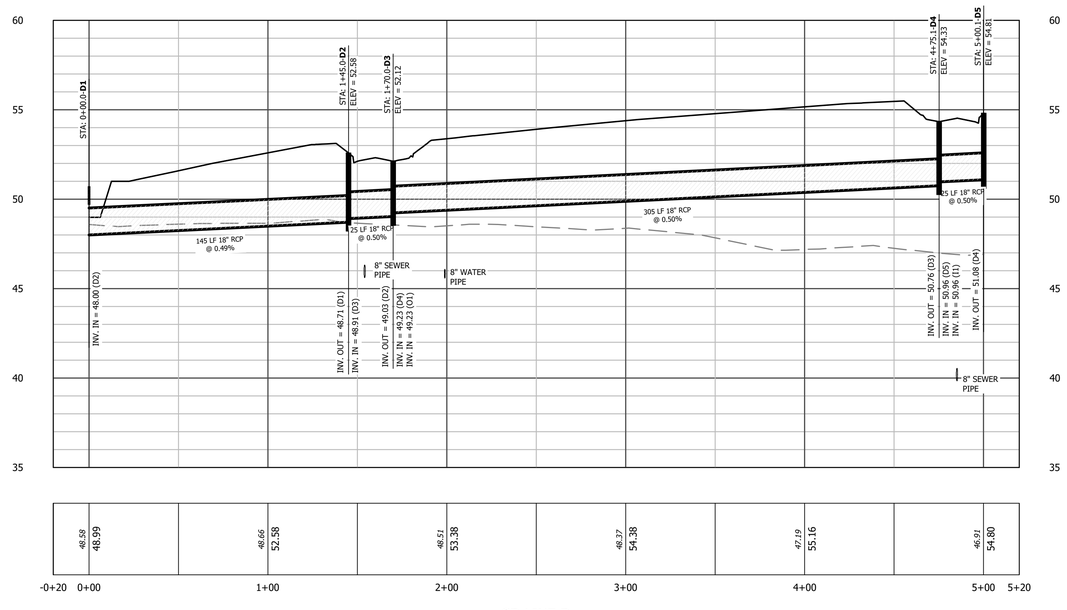
SD LINE B
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE C
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE D
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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EDGECOMBE COUNTY
TOWN OF PRINCEVILLE
NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

STORM DRAIN PROFILE (1 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.00

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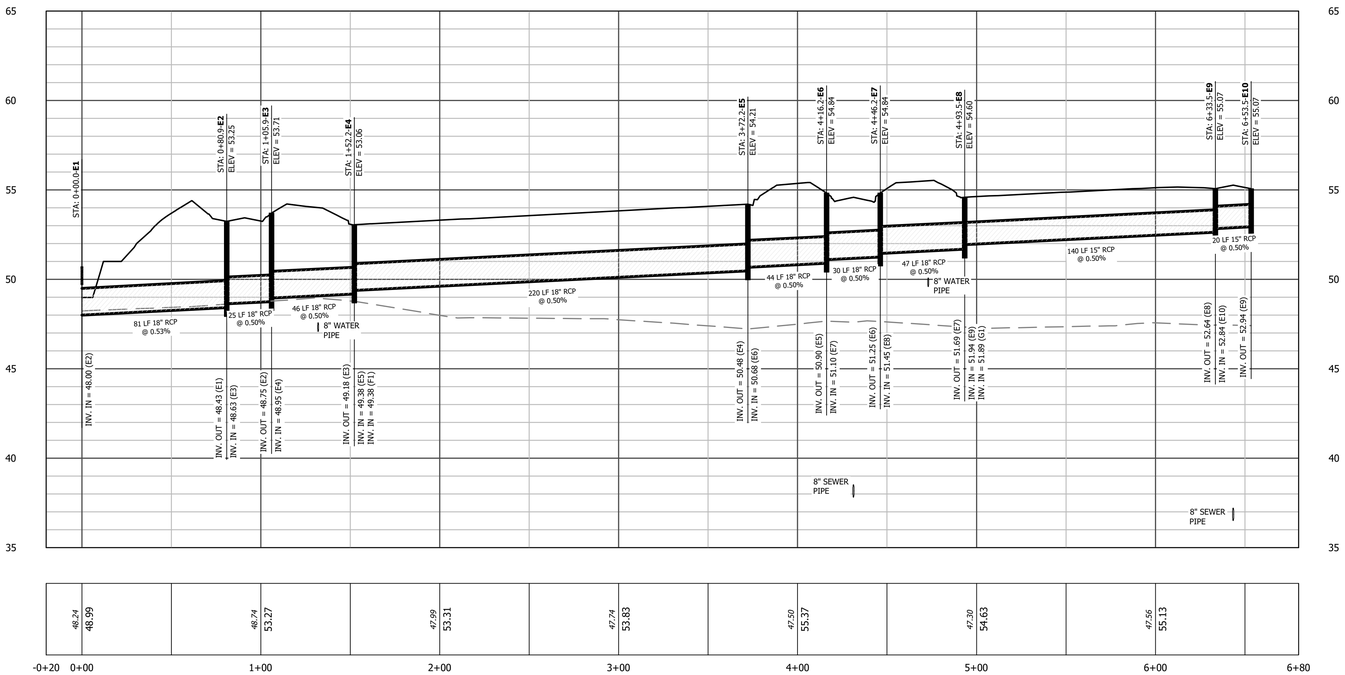
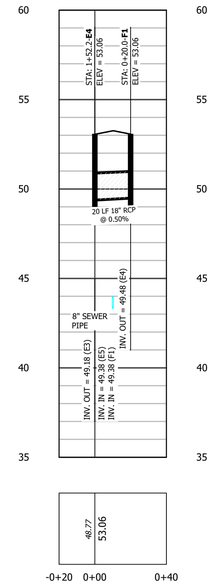
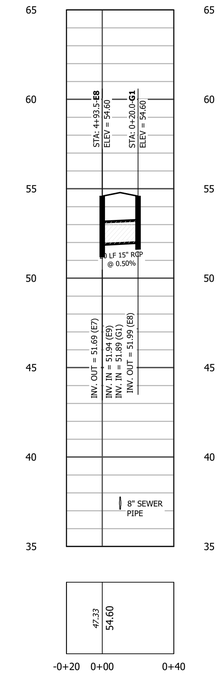


SD LINE E
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

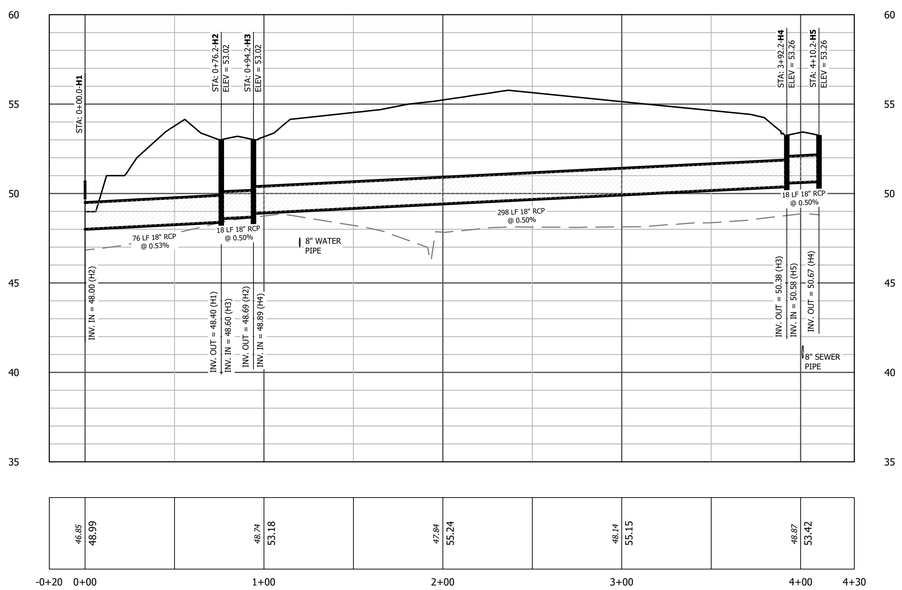
EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



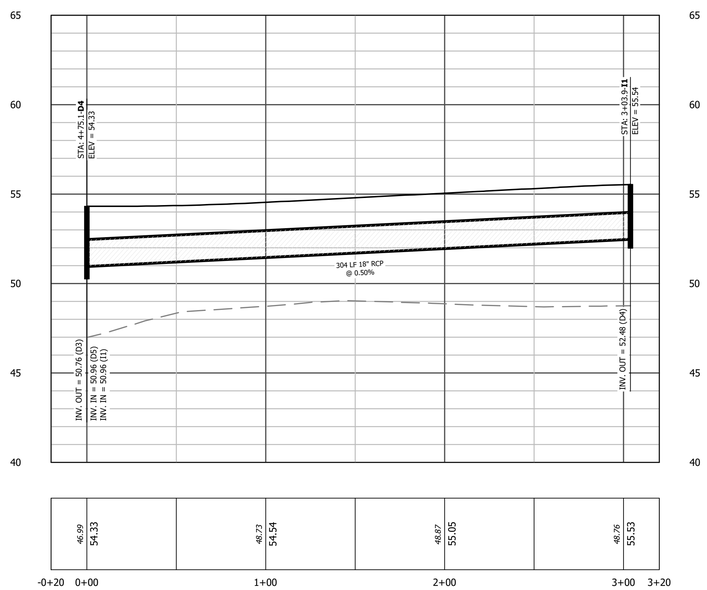
SD LINE F
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE G
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE H
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE I
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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License Number : F-0115

EDGECOMBE COUNTY NORTH CAROLINA
TOWN OF PRINCEVILLE
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (2 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.01

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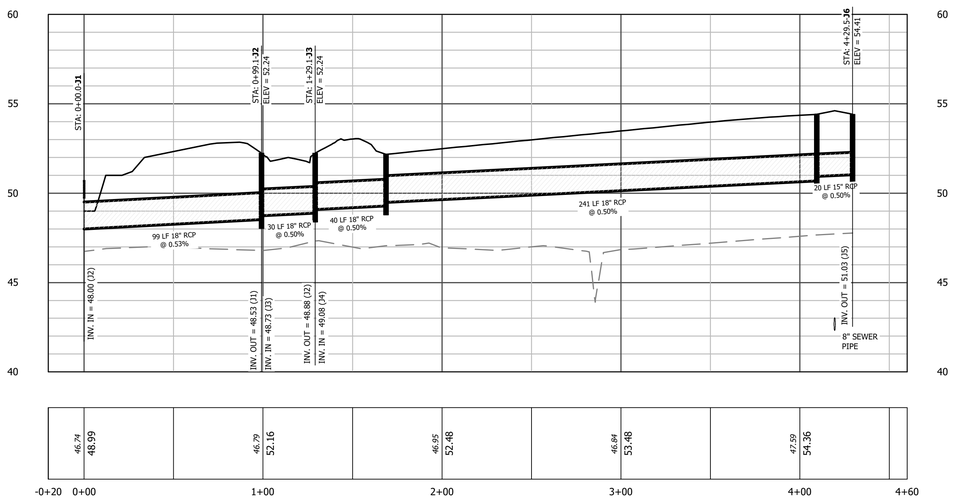
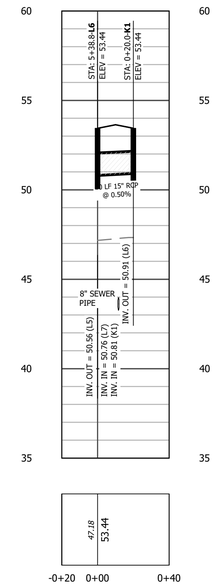


SD LINE J
STORM DRAINAGE PROFILE

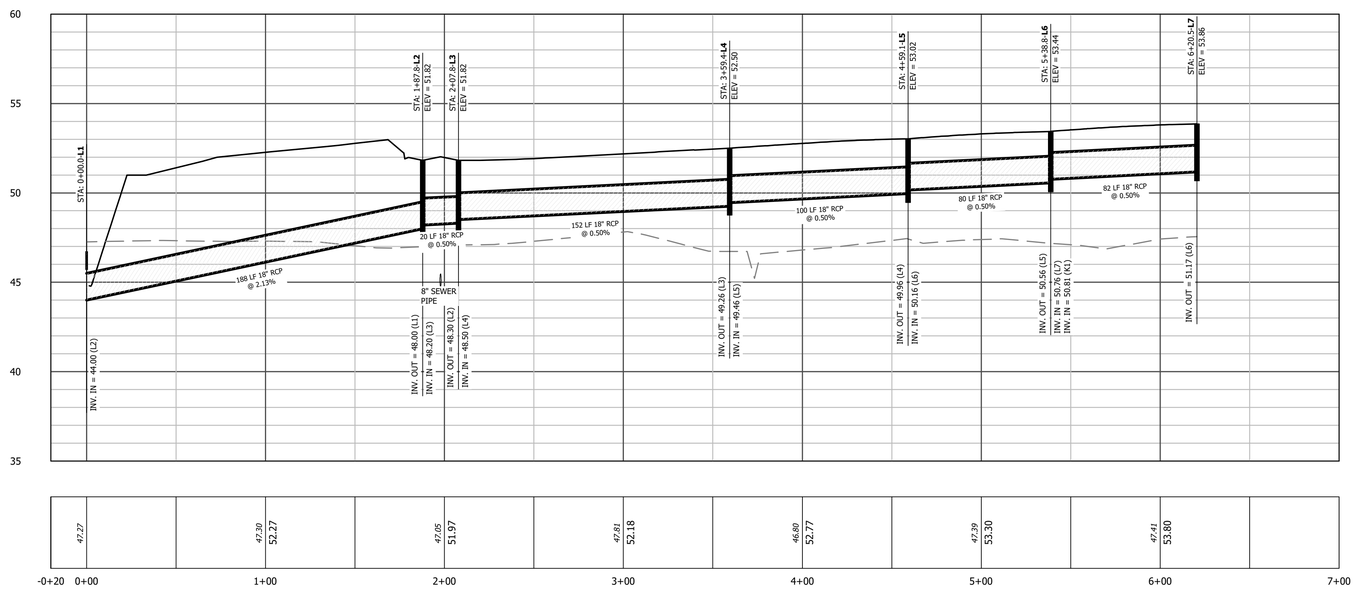
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



SD LINE K
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



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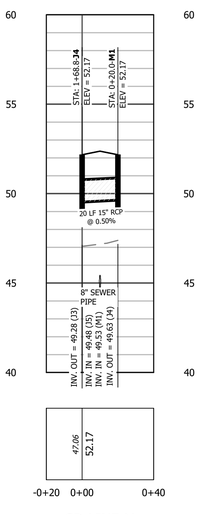
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



SD LINE M
STORM DRAINAGE PROFILE

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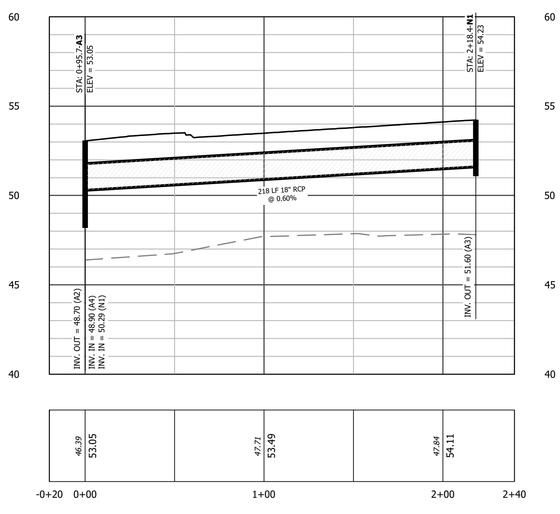
VERT. 1" = 4'



SD LINE N
STORM DRAINAGE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

REVISIONS

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License Number : F-0115

TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (3 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.02

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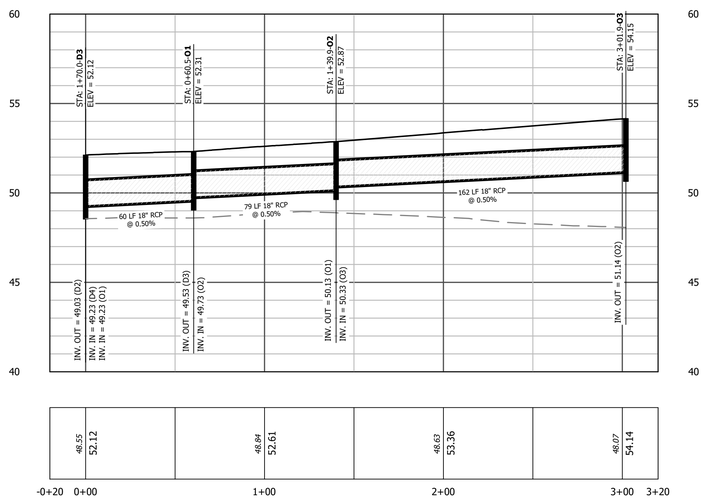
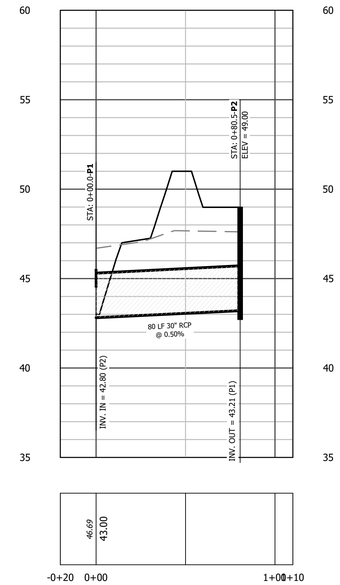


SD LINE O
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

EXISTING GRADE
PROPOSED GRADE
HGL (10 YR)



SD LINE P
STORM DRAINAGE PROFILE
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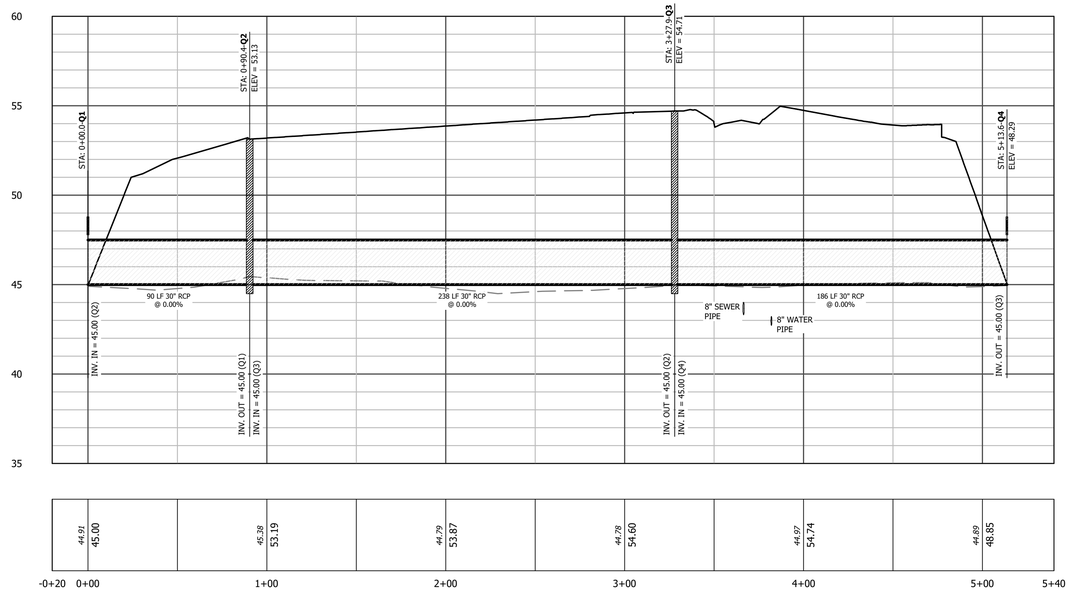
VERT. 1" = 4'



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STORM DRAINAGE PROFILE
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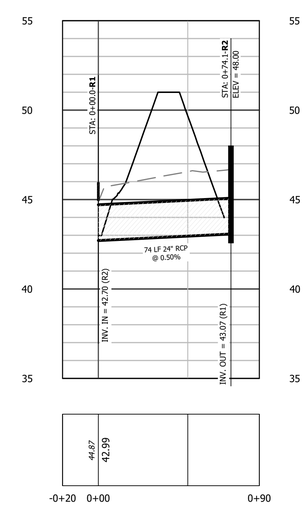
VERT. 1" = 4'



SD LINE R
STORM DRAINAGE PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
STORM DRAIN PROFILE (4 OF 4)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-9.03

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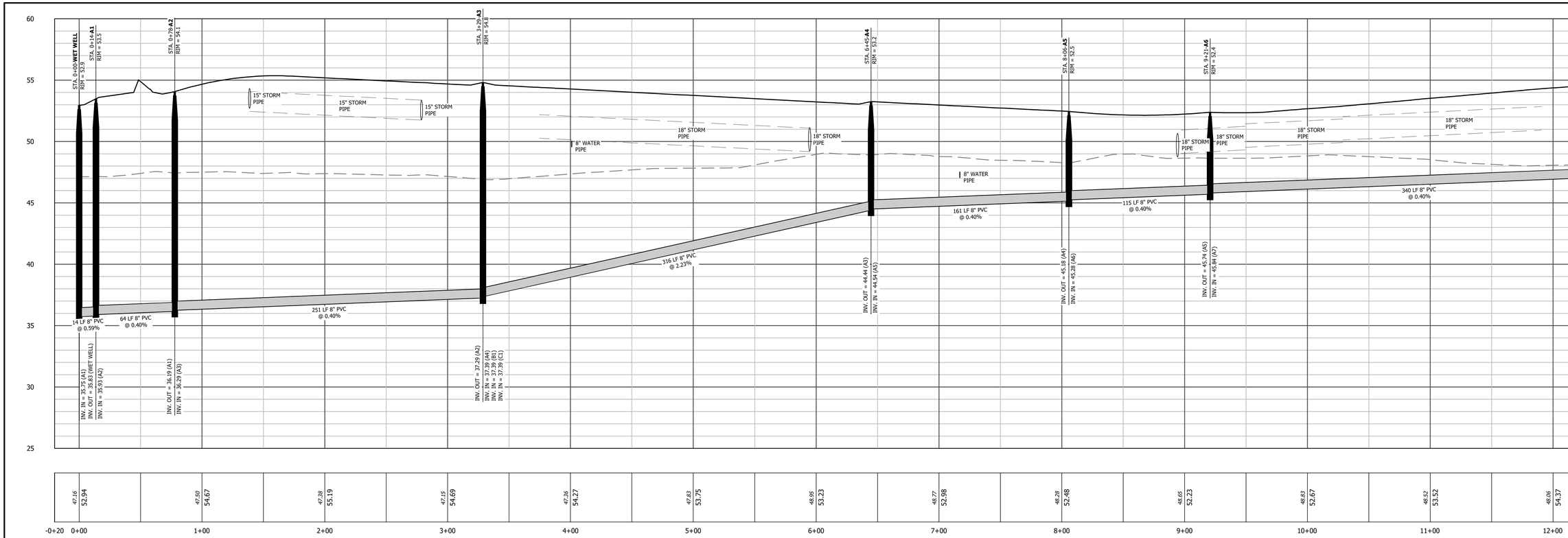
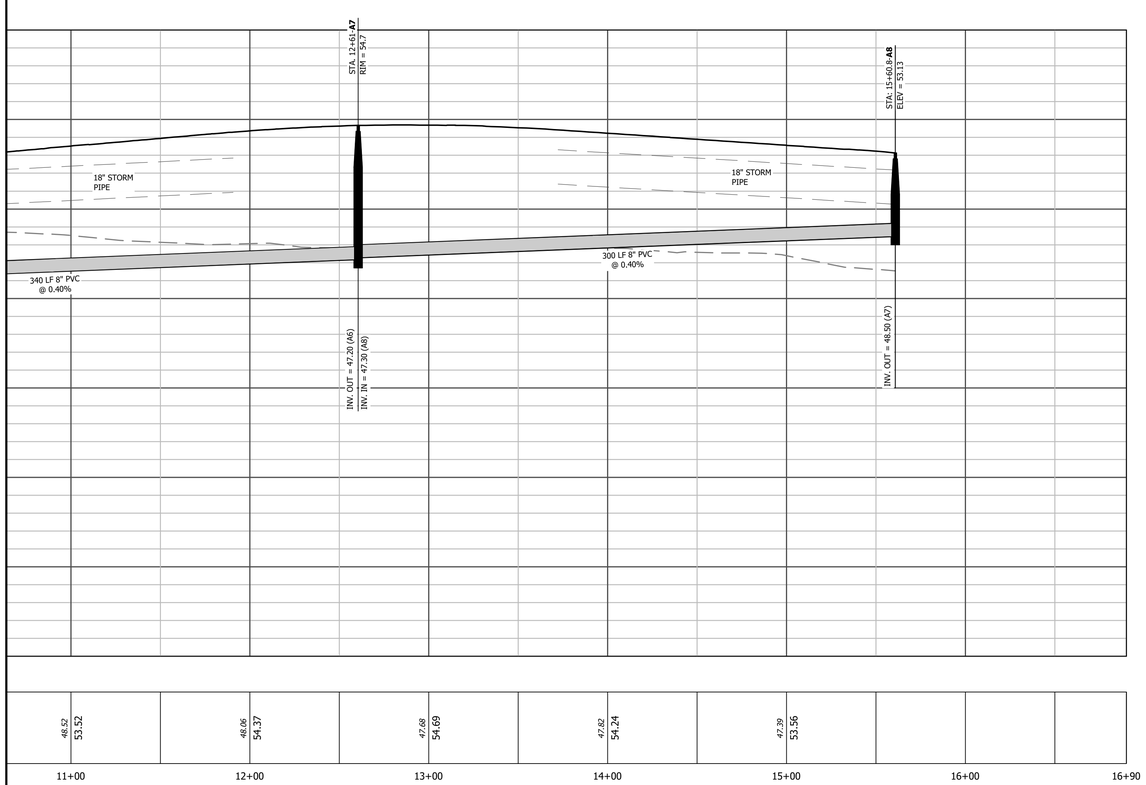


SS LINE A
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



SS LINE A
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA

53 ACRE PROJECT PHASE ONE DEVELOPMENT

SEWER PROFILE (1 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY:	JFS
DRAWN BY:	JKN
CHECKED BY:	DCS
PROJECT NO.:	2849-L
DATE:	JULY 13, 2023
SCALE:	AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-10.00

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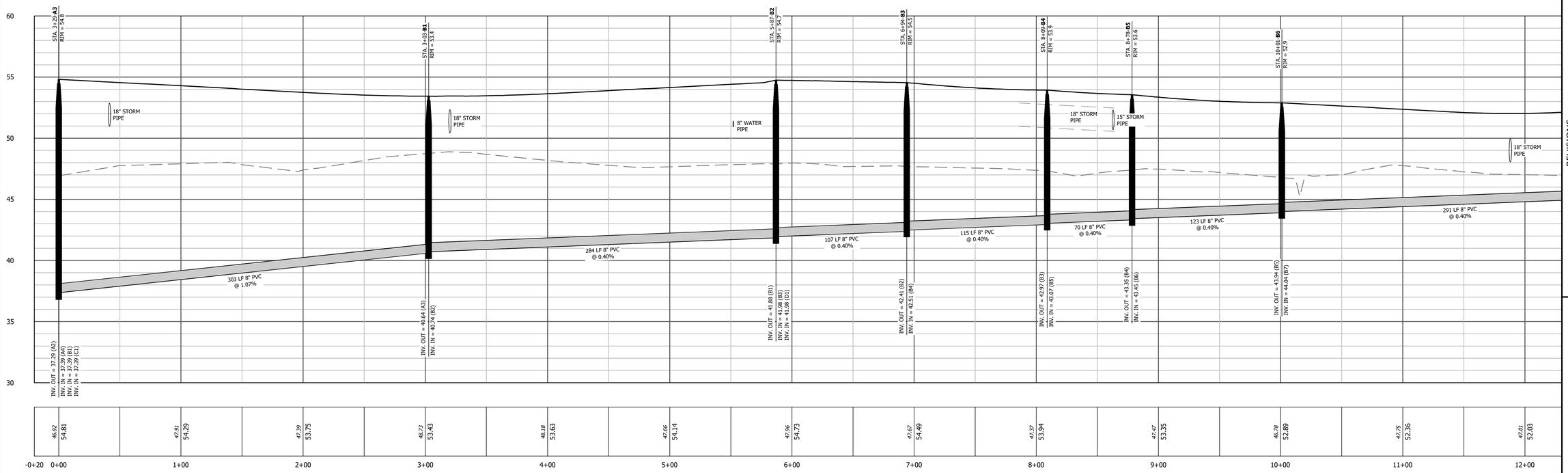
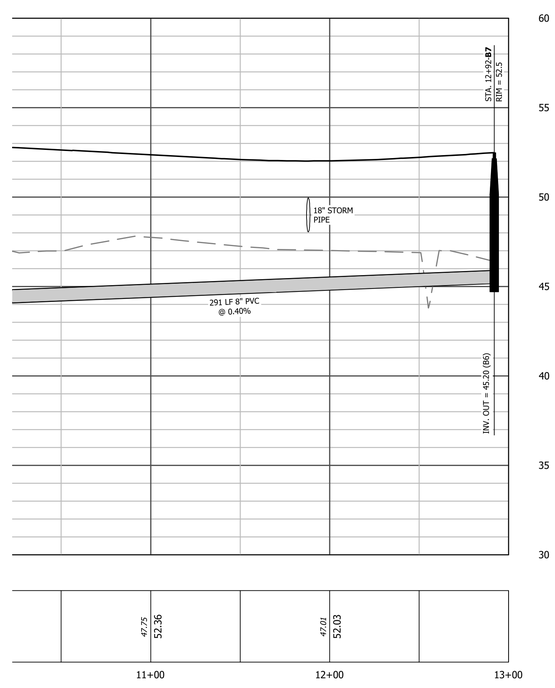


SS LINE B
SANITARY SEWER PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



SS LINE B
SANITARY SEWER PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
SEWER PROFILE (2 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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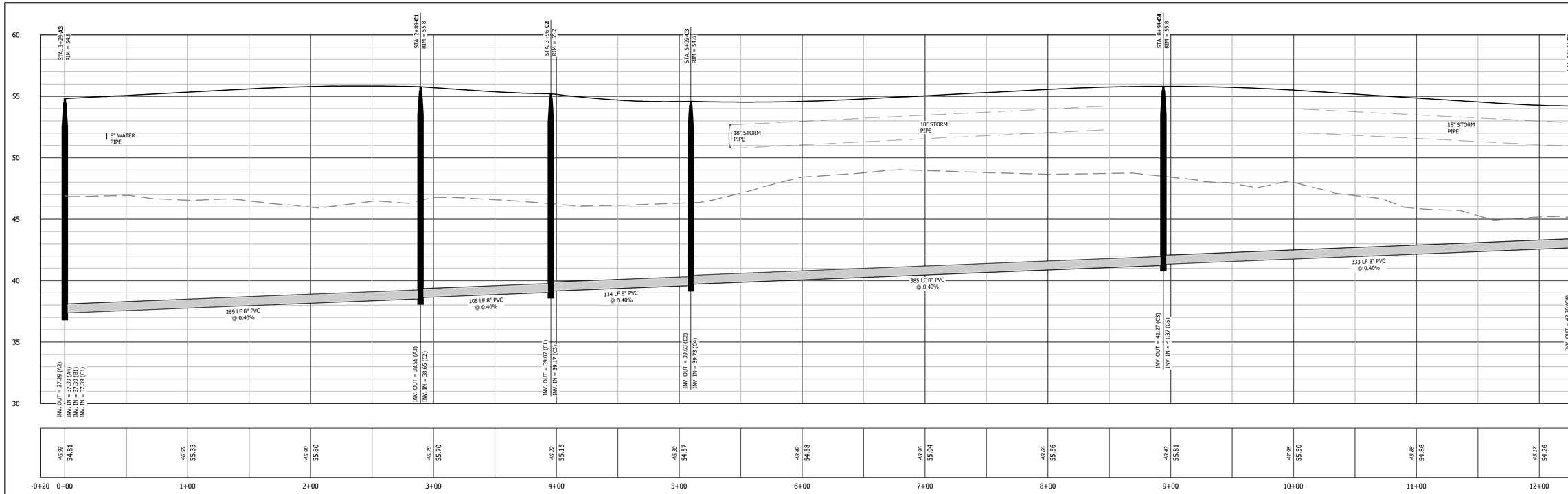
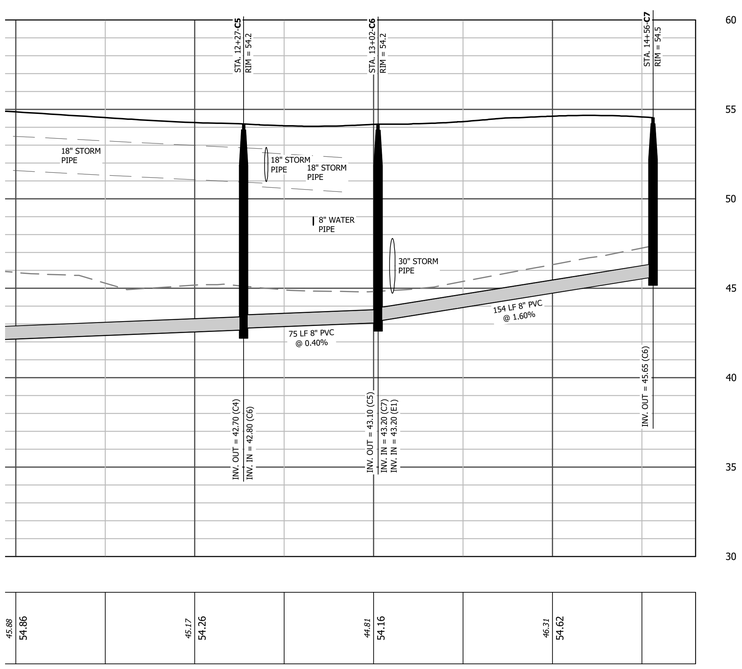


SS LINE C
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

PARALLEL STORM DRAINAGE PIPE
EXISTING GRADE
PROPOSED GRADE



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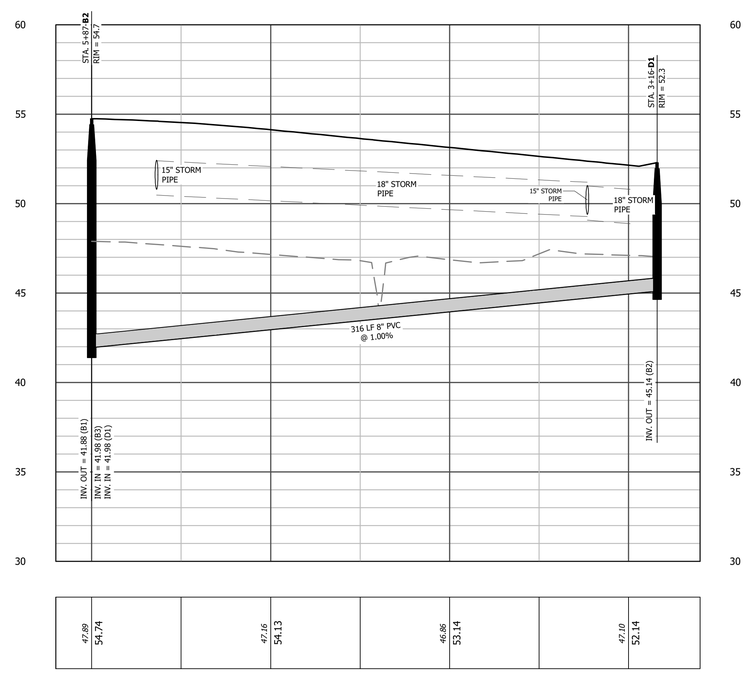

SS LINE D
SANITARY SEWER PROFILE

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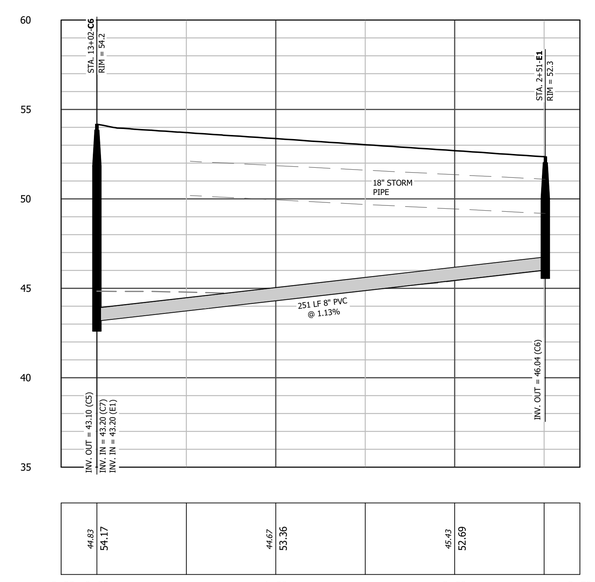

SS LINE E
SANITARY SEWER PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

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TOWN OF PRINCEVILLE
EDGECOMBE COUNTY NORTH CAROLINA
53 ACRE PROJECT PHASE ONE DEVELOPMENT
SEWER PROFILE (3 OF 3)

PROGRESS DRAWING
DO NOT USE FOR CONSTRUCTION

DESIGNED BY: JFS
DRAWN BY: JKN
CHECKED BY: DCS
PROJECT NO.: 2849-L
DATE: JULY 13, 2023
SCALE: AS NOTED

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

C-10.02

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- **National Wetlands Inventory Map**

- **USACE Correspondence and Preliminary Jurisdictional Determination (PJD) Request and Supporting Determination including NC DEQ DWR Determination Letter**

Princeville 53-Acre Site Redevelopment - NWI Map

October 9, 2023

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Princeville 53-Acre Site Redevelopment

U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov, NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Keane, Rachel A

From: Derrick Smith <dsmith@thewootencompany.com>
Sent: Thursday, April 27, 2023 1:49 PM
To: Gievers, Andrea
Cc: jessie m walker; Knight, Glenda
Subject: [External] FW: Princeville 53 acres

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon Andrea-

Below is the response from the corps in regards to the other HUD regulated wetlands on the site and in further verbal conversation they said that since there were no non-jurisdictional wetlands on the site there was no need for further investigation.

Please advise if you need anything further or if I am not asking the correct question.

Thank you,

Derrick C. Smith, PE
Eastern Division Lead

(252) 757-1096 x235 • Office
(252) 714-3034 • Mobile
(252) 757-3221 • Fax
301 W. 14th St.
Greenville, NC 27834

Wooten

From: Dailey, Samantha J CIV USARMY CESAW (USA) <Samantha.J.Dailey@usace.army.mil>
Sent: Wednesday, April 26, 2023 10:35 AM
To: Derrick Smith <dsmith@thewootencompany.com>
Cc: Standridge, Billy W CIV USARMY CESAW (USA) <Billy.W.Standridge@usace.army.mil>
Subject: RE: Princeville 53 acres

Hi Derrick,

I appreciate your email. I did not provide an actual JD for the site, but I did provide my concurrence for the site, and specifically for the Feature Exhibit 4 – Princeville 53-Acre Site dated 8/13/2019. Our concurrence is meant to serve as confirmation that we agree with the delineation for avoidance and minimization and permitting purposes. There was one jurisdictional wetland identified in the southwestern corner of the site. To re-confirm this information:

“We have reviewed the information provided by you concerning the aquatic resources, and by copy of this e-mail, are confirming that the aquatic resources delineation has been verified by the Corps to be a sufficiently accurate and reliable representation of the location and extent of aquatic resources within the identified review area. The location and extent of these aquatic resources are shown on the delineation map entitled, "Feature Exhibit 4 – Princeville 53-Acre Site and dated 8/13/2019.

I'm not certain what you mean by not HUD-defined wetlands. There were no features on-site that would warrant a non-jurisdictional status.

Lastly, Mr. Billy Standridge, copied on the email, is the PM for Edgecombe County. Moving forward please reach out to him with any questions/concerns regarding the site or Edgecombe County.

Please let me know if you have any additional questions.

Sam Dailey (she/her)
Chief, Charlotte Regulatory Field Office
U.S. Army Corps of Engineers, Wilmington District
8430 University Executive Park Drive, Suite 615
Charlotte, NC 28262

Email: Samantha.J.Dailey@usace.army.mil
Cell: (704) 589-8397

From: Derrick Smith <dsmith@thewootencompany.com>
Sent: Wednesday, April 26, 2023 10:12 AM
To: Dailey, Samantha J CIV USARMY CESAW (USA) <Samantha.J.Dailey@usace.army.mil>
Subject: [Non-DoD Source] Princeville 53 acres

Good morning Sam-

Its been a long time and I hope you are doing well.

I am working on the NEPA requirements through HUD and they asked the question if there was ever an actual JD issued for the site. I included the full email thread to jog your memory as its been a few years.

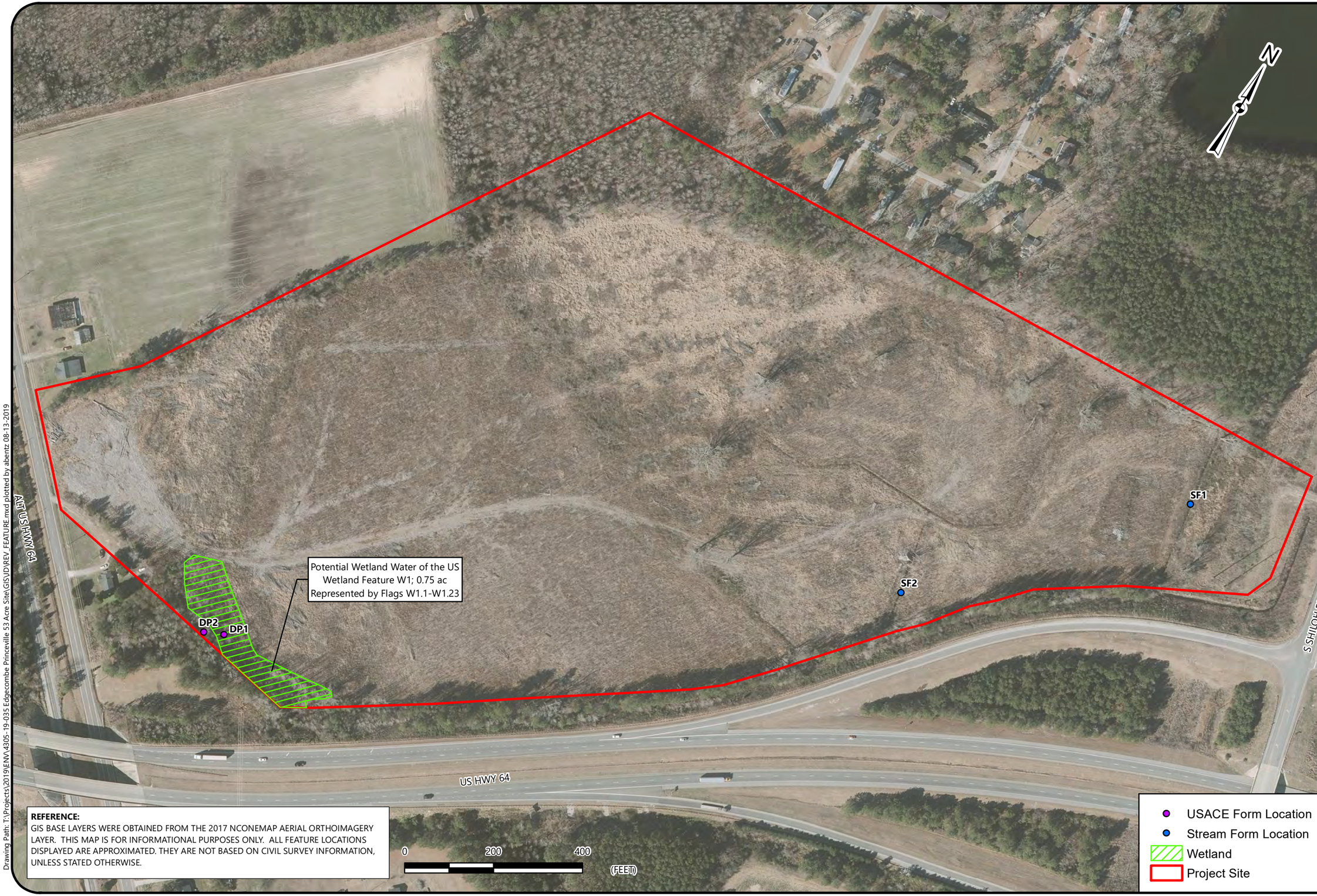
Also do you have the ability to make provide information on non-jurisdictional wetlands and a determination that they are not HUD-defined Wetlands?

Thank you for your help,

Derrick C. Smith, PE
Eastern Division Lead

(252) 757-1096 x235 • Office
(252) 714-3034 • Mobile
(252) 757-3221 • Fax
301 W. 14th St.
Greenville, NC 27834

Wooten



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

FEATURE EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:
1 " = 200 '

DATE:
8-13-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
4

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\REV_FEATURE.mxd plotted by abentz 08-13-2019

June 10, 2019

Raleigh Regulatory Field Office
U.S. Army Corps of Engineers, Wilmington District
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587

Attention: Ms. Samantha Dailey

Reference: Preliminary Jurisdictional Determination Request and Supporting Documentation
Princeville 53-Acre Site
Princeville, Edgecombe County, North Carolina
S&ME Project 4305-19-035

Dear Ms. Dailey:

On behalf of our client, S&ME, Inc. (S&ME) hereby submits this Preliminary Jurisdictional Determination request. In support of this request, please find enclosed the following:

- Jurisdictional Determination Request Form
- Preliminary Jurisdictional Determination Form
- Agent Authorization form completed by Property Owner
- Figures –USDA- SCS Soil Survey Exhibit (Figure 1), USGS Topographic Exhibit (Figure 2), 2012 Color Aerial Exhibit (Figure 3), Feature Exhibit (Figures 4), LIDAR Exhibit (Figure 5), National Wetlands Inventory Exhibit (Figure 6), National Hydrography Dataset Exhibit (Figure 7), FEMA Flood Zone Exhibit (Figure 8)
- USACE Routine Data Forms
- NCDWR Stream Identification Forms
- Site Photographs

Please let me know when you are available to review the jurisdictional features on-site. If you have questions or need additional information, please contact me at 919.801.3798.

Sincerely,

S&ME, Inc.

Walter Cole, L.S.S., R.E.H.S.
Senior Project Manager

Ashley Bentz
Staff Scientist

Jurisdictional Determination Request

US Army Corps of Engineers
Wilmington District

This form is intended for use by anyone requesting a jurisdictional determination (JD) from the U.S. Army Corps of Engineers, Wilmington District (Corps). Please include all supporting information, as described within each category, with your request. You may submit your request via mail, electronic mail, or facsimile. Requests should be sent to the appropriate project manager of the county in which the property is located. A current list of project managers by assigned counties can be found on-line at: http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram/Contact/CountyLocator.aspx, by calling 910-251-4633, or by contacting any of the field offices listed below. Once your request is received you will be contacted by a Corps project manager.

ASHEVILLE & CHARLOTTE REGULATORY FIELD OFFICES
US Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, North Carolina 28801-5006
General Number: (828) 271-7980
Fax Number: (828) 281-8120

RALEIGH REGULATORY FIELD OFFICE
US Army Corps of Engineers
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587
General Number: (919) 554-4884
Fax Number: (919) 562-0421

WASHINGTON REGULATORY FIELD OFFICE
US Army Corps of Engineers
2407 West Fifth Street
Washington, North Carolina 27889
General Number: (910) 251-4610
Fax Number: (252) 975-1399

WILMINGTON REGULATORY FIELD OFFICE
US Army Corps of Engineers
69 Darlington Avenue
Wilmington, North Carolina 28403
General Number: 910-251-4633
Fax Number: (910) 251-4025

INSTRUCTIONS:

All requestors must complete Parts A, B, C, D, E, F and G.

NOTE TO CONSULTANTS AND AGENCIES: If you are requesting a JD on behalf of a paying client or your agency, please note the specific submittal requirements in **Part H**.

NOTE ON PART D – PROPERTY OWNER AUTHORIZATION: Please be aware that all JD requests must include the current property owner authorization for the Corps to proceed with the determination, which may include inspection of the property when necessary. This form must be signed by the current property owner(s) or the owner(s) authorized agent to be considered a complete request.

NOTE ON PART D - NCDOT REQUESTS: Property owner authorization/notification for JD requests associated with North Carolina Department of Transportation (NCDOT) projects will be conducted according to the current NCDOT/USACE protocols.

NOTE TO USDA PROGRAM PARTICIPANTS: A Corps approved or preliminary JD may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should also request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

A. PARCEL INFORMATION

Street Address: US 64 Alt E

City, State: Princeville, North Carolina

County: Edgecombe

Parcel Index Number(s) (PIN): 4747-24-7947, 4747-14-7564

B. REQUESTOR INFORMATION

Name: Walter Cole of S&ME, Inc.

Mailing Address: 3201 Spring Forest Road

Raleigh, NC 27616

Telephone Number: 919-872-2660

Electronic Mail Address: wcole@smeinc.com

Select one:

- ☐ I am the current property owner.
- ☑ I am an Authorized Agent or Environmental Consultant[1]
- ☐ Interested Buyer or Under Contract to Purchase
- ☐ Other, please explain. _____

C. PROPERTY OWNER INFORMATION[2]

Name: Town of Princeville (attn Dr. Knight)

Mailing Address: PO Box 1527

Tarboro, NC 27886

Telephone Number: 252-823-1057

Electronic Mail Address: gknight@townofprinceville.org

[1] Must provide completed Agent Authorization Form/Letter.

[2] Documentation of ownership also needs to be provided with request (copy of Deed, County GIS/Parcel/Tax Record).

D. PROPERTY ACCESS CERTIFICATION[3,4]

By signing below, I authorize representatives of the Wilmington District, U.S. Army Corps of Engineers (Corps) to enter upon the property herein described for the purpose of conducting on-site investigations, if necessary, and issuing a jurisdictional determination pursuant to Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. I, the undersigned, am either a duly authorized owner of record of the property identified herein, or acting as the duly authorized agent of the owner of record of the property.

See attached agent authorization

Print Name

Capacity: ☐ Owner ☐ Authorized Agent[5]

November 1, 2023

Date

Signature

E. REASON FOR JD REQUEST: (Check as many as applicable)

☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.

☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.

☑ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.

☐ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.

☐ I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.

☐ A Corps JD is required in order obtain my local/state authorization.

☐ I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.

☐ I believe that the site may be comprised entirely of dry land.

☐ Other:_____

[3] For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.

[4] If there are multiple parcels owned by different parties, please provide the following for each additional parcel on a continuation sheet.

[5] Must provide agent authorization form/letter signed by owner(s).

F. JURISDICTIONAL DETERMINATION (JD) TYPE (Select One)

☑ I am requesting that the Corps provide a preliminary JD for the property identified herein.

A Preliminary Jurisdictional Determination (PJD) provides an indication that there may be "waters of the United States" or "navigable waters of the United States"on a property. PJDs are sufficient as the basis for permit decisions. For the purposes of permitting, all waters and wetlands on the property will be treated as if they are jurisdictional "waters of the United States". PJDs cannot be appealed (33 C.F.R. 331.2); however, a PJD is "preliminary" in the sense that an approved JD can be requested at any time. PJDs do not expire.

☐ I am requesting that the Corps provide an approved JD for the property identified herein.

An Approved Jurisdictional Determination (AJD) is a determination that jurisdictional "waters of the United States" or "navigable waters of the United States" are either present or absent on a site. An approved JD identifies the limits of waters on a site determined to be jurisdictional under the Clean Water Act and/or Rivers and Harbors Act. Approved JDs are sufficient as the basis for permit decisions. AJDs are appealable (33 C.F.R. 331.2). The results of the AJD will be posted on the Corps website. A landowner, permit applicant, or other "affected party" (33 C.F.R. 331.2) who receives an AJD may rely upon the AJD for five years (subject to certain limited exceptions explained in Regulatory Guidance Letter 05-02).

☐ I am unclear as to which JD I would like to request and require additional information to inform my decision.

G. ALL REQUESTS

☑ Map of Property or Project Area. This Map must clearly depict the boundaries of the review area.

☑ Size of Property or Review Area 52.95 acres.

☑ The property boundary (or review area boundary) is clearly physically marked on the site.

H. REQUESTS FROM CONSULTANTS

☑ Project Coordinates (Decimal Degrees): Latitude: 35.86953
Longitude: -77.50765

☑ A legible delineation map depicting the aquatic resources and the property/review area. Delineation maps must be no larger than 11x17 and should contain the following: (Corps signature of submitted survey plats will occur after the submitted delineation map has been reviewed and approved).[6]

- North Arrow
- Graphical Scale
- Boundary of Review Area
- Date
- Location of data points for each Wetland Determination Data Form or tributary assessment reach.

For Approved Jurisdictional Determinations:

- Jurisdictional wetland features should be labeled as Wetland Waters of the US, 404 wetlands, etc. Please include the acreage of these features.
- Jurisdictional non-wetland features (i.e. tidal/navigable waters, tributaries, impoundments) should be labeled as Non-Wetland Waters of the US, stream, tributary, open water, relatively permanent water, pond, etc. Please include the acreage or linear length of each of these features as appropriate.
- Isolated waters, waters that lack a significant nexus to navigable waters, or non-jurisdictional upland features should be identified as Non-Jurisdictional. Please include a justification in the label regarding why the feature is non-jurisdictional (i.e. "Isolated", "No Significant Nexus", or "Upland Feature"). Please include the acreage or linear length of these features as appropriate.

For Preliminary Jurisdictional Determinations:

- Wetland and non-wetland features should not be identified as Jurisdictional, 404, Waters of the United States, or anything that implies jurisdiction. These features can be identified as Potential Waters of the United States, Potential Non-wetland Waters of the United States, wetland, stream, open water, etc. Please include the acreage and linear length of these features as appropriate.

☑ Completed Wetland Determination Data Forms for appropriate region
(at least one wetland and one upland form needs to be completed for each wetland type)

[6] Please refer to the guidance document titled "Survey Standards for Jurisdictional Determinations" to ensure that the supplied map meets the necessary mapping standards. http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/

- [x] Completed appropriate Jurisdictional Determination form
  - **PJDs,** please complete a Preliminary Jurisdictional Determination Form[7] and include the Aquatic Resource Table
  - **AJDs**, please complete an Approved Jurisdictional Determination Form[8]
- [x] Vicinity Map
- [x] Aerial Photograph
- [x] USGS Topographic Map
- [x] Soil Survey Map
- [x] Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)
- [x] Landscape Photos (if taken)
- [ ] NCSAM and/or NCWAM Assessment Forms and Rating Sheets
- [x] NC Division of Water Resources Stream Identification Forms
- [ ] Other Assessment Forms

[7] www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL_08-02_App_A_Prelim_JD_Form_fillable.pdf
[8] Please see http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.
Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USAGE website.
Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD)

FORM BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 6/10/19

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Walter Cole of S&ME, Inc.
3201 Spring Forest Road, Raleigh, NC 27616

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: NC County/parish/borough: Edgecombe City: Princeville

Center coordinates of site (lat/long in degree decimal format):

Lat.: 35.86953 Long.: -77.50765

Universal Transverse Mercator: NAD83

Name of nearest waterbody: UT- Cromwell Canal

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALTHAT APPLY): Office (Desk)

☐ Determination. Date:

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
W1	35.86721	-77.50888	0.75 ac	Wetland	Section 404
W2	35.87092	-77.50357	0.03 ac	Wetland	Section 404
W3	35.86957	-77.50516	0.02 ac	Wetland	Section 404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there *"may be"* waters of the U.S. and/or that there *"may be"* navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- ☐ Office concurs with data sheets/delineation report.
- ☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps: .

☐ Corps navigable waters' study: .

☒ U.S. Geological Survey Hydrologic Atlas: .
- ☒ USGS NHD data.
- ☐ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name:USGS National Topo map viewer.

☒ USDA Natural Resources Conservation Service Soil Survey. Citation:1979 USDA-SCS Published Soil Survey of Edgecombe County, North Carolina.

☒ National wetlands inventory map(s). Cite name:2019 USFWS Natioanl Wetlands Inventory Dataset.

☐ State/Local wetland inventory map(s): .

☒ FEMA/FIRM maps: .

☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

☒ Photographs: ☒ Aerial (Name & Date):2017 NC One Map aerial orthoimagery layer.
or ☒ Other (Name & Date):Site Photos taken May 2019.

☐ Previous determination(s). File no. and date of response letter: .

☐ Other information (please specify): .

<u>IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.</u>

_____	_____6/10/19
Signature and date of Regulatory Project Manager (REQUIRED)	Signature and date of person requesting preliminary JD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

AGENT AUTHORIZATION AND RIGHT OF ENTRY FORM

Date: 5/14/19

Project Information

S&ME Project Name:	Town of Princeville 53-Acre Site
Type of Project:	Residential
Location:	Princeville, Edgecombe County, North Carolina

Property Owner/Representative Information

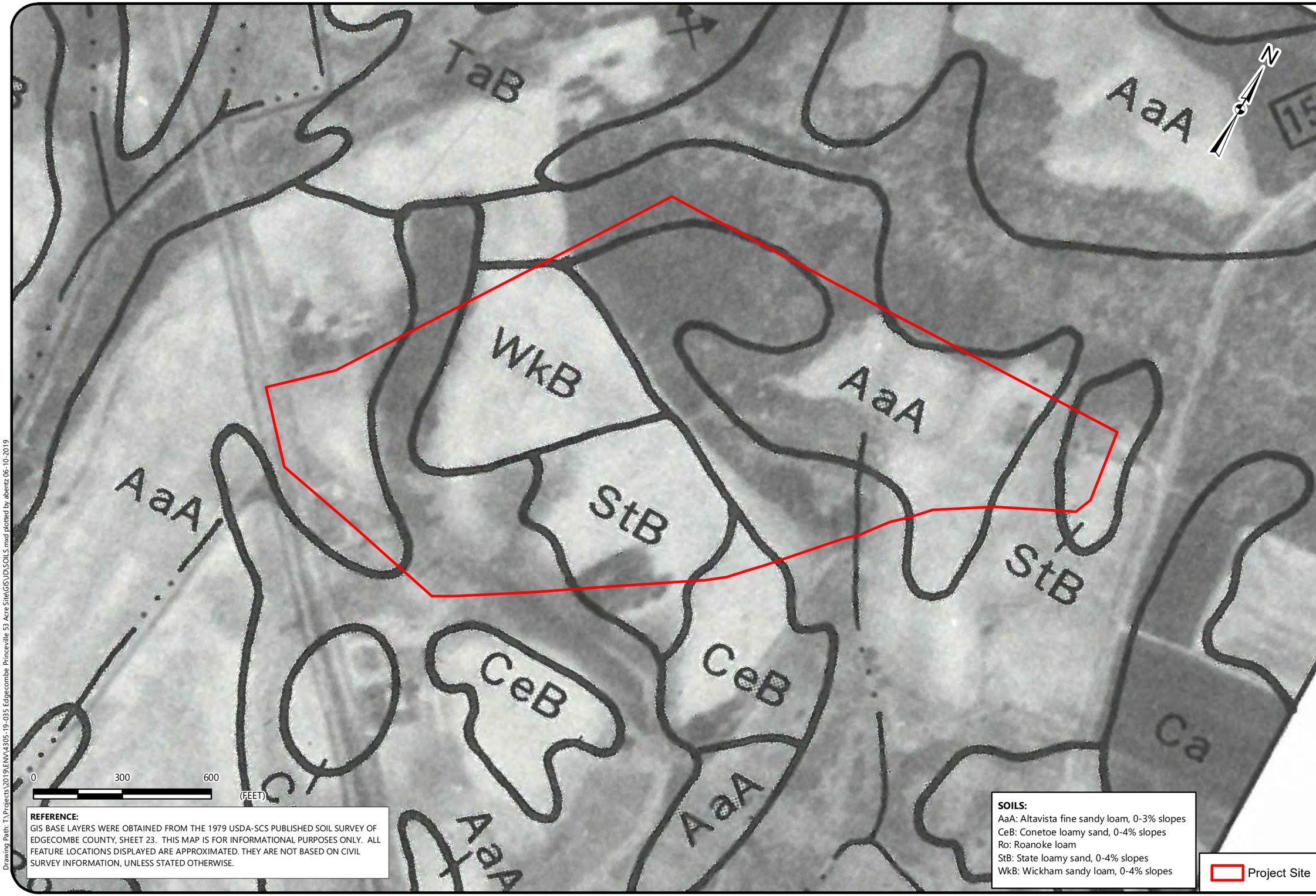
Business Name:	Town of Princeville
Mailing Address:	P.O. Box 1527
City, State, Zip Code:	Tarboro, NC 27886
Telephone No.	(252) 823-1057
Contact:	Glenda Lawrence-Knight

Agent Information

Business Name:	S&ME, Inc.
Street Address:	3201 Spring Forest Road
City, State, Zip Code:	Raleigh, NC 27616
Telephone No.	919-872-2660
Contact:	Mr. Walter Cole

Authorization: I Glenda Lawrence-Knight, on behalf of
(Contact Signature)
Town of Princeville
(Name of Landowner or Representative)

a duly authorized owner of record of the property/ properties identified herein, hereby authorize S&ME to act as agent with the USCAE in connection with the above-mentioned project. By signing above, I also authorize representatives of the Wilmington District, U.S. Army Corps of Engineers (Corps) to enter upon the property herein described for the purposes of conducting on-site investigations, if necessary, and issuing a jurisdictional determination pursuant to Section 404 of the Clean Water Act and/or Section 10 of the River and Harbors Act of 1889. I, the above signed, am either a duly authorized owner of record of the property identified herein, or acting as the duly authorized agent of the owner of record of the property.



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 1979 USDA-SCS PUBLISHED SOIL SURVEY OF EDGECOMBE COUNTY, SHEET 23. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

SOILS:
AaA: Altavista fine sandy loam, 0-3% slopes
CeB: Conetoe loamy sand, 0-4% slopes
Ro: Roanoke loam
StB: State loamy sand, 0-4% slopes
WkB: Wickham sandy loam, 0-4% slopes

NRCS-USDA SOIL SURVEY EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

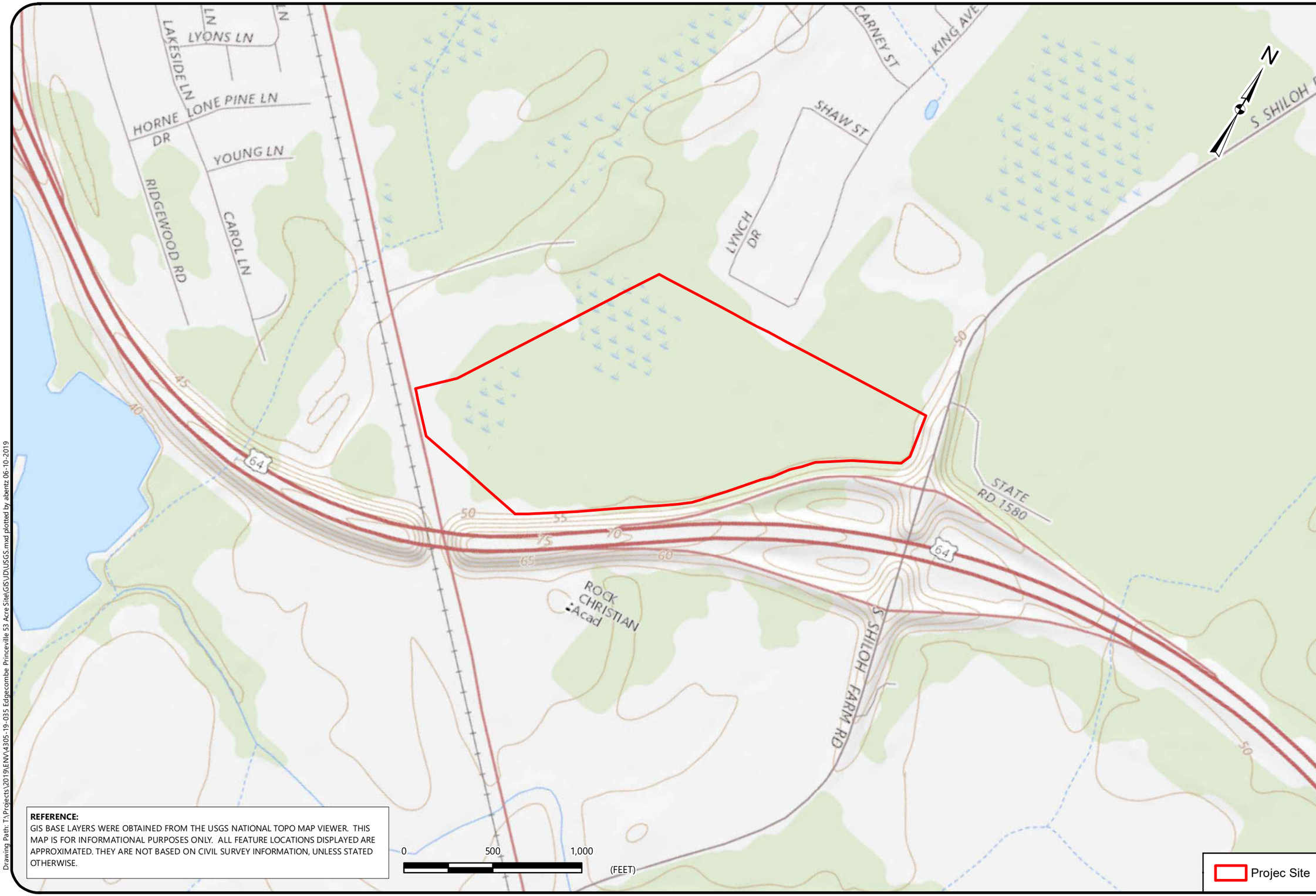
SCALE:
1 " = 300 '

DATE:
5-30-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
1

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\SOILS.mxd plotted by abentz 06-10-2019



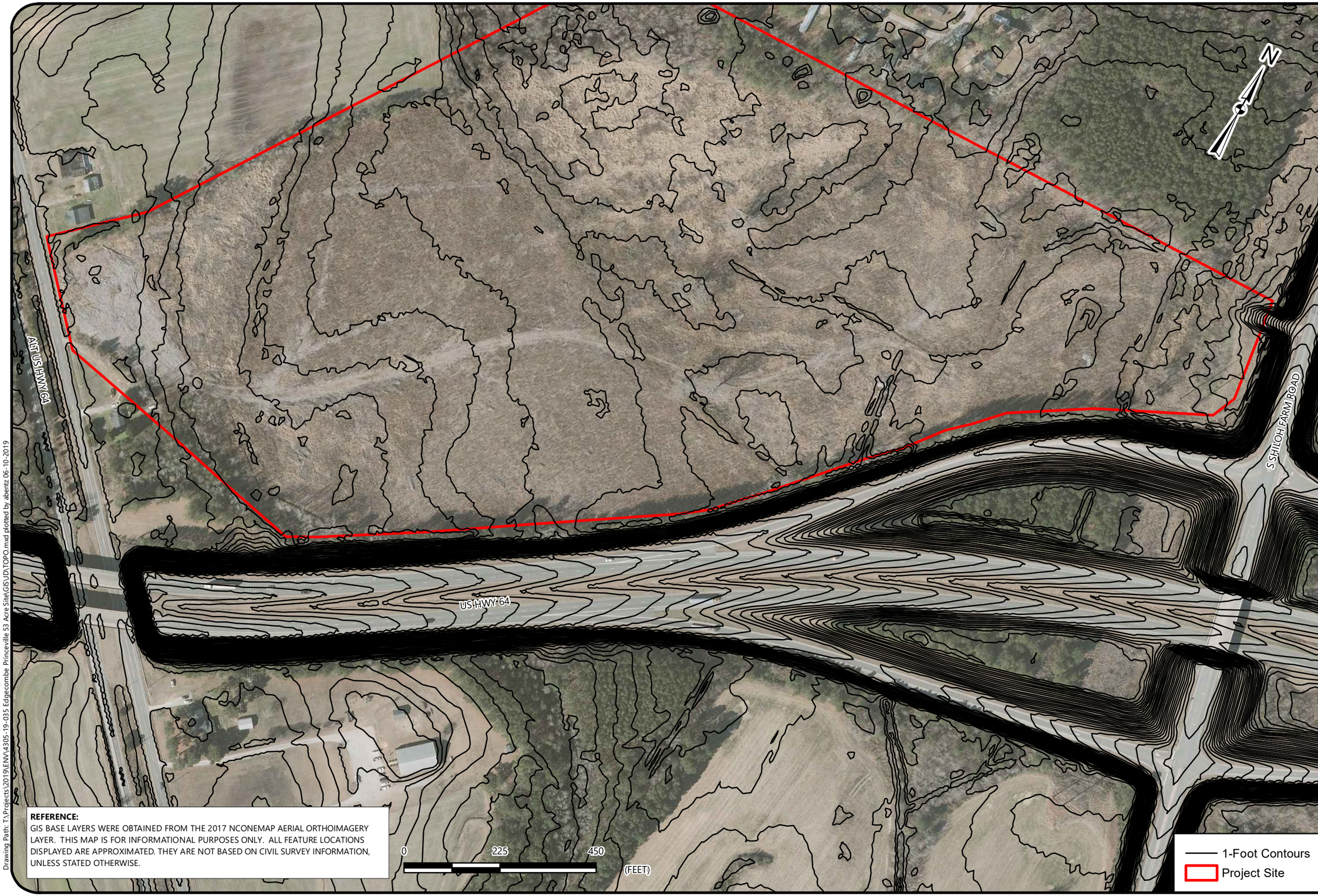
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE USGS NATIONAL TOPO MAP VIEWER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

USGS TOPOGRAPHIC EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:	1 " = 500 '
DATE:	5-30-19
PROJECT NUMBER	4305-19-035
FIGURE NO.	2

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\USGS.mxd plotted by abentz 06-10-2019



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

COLOR AERIAL EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

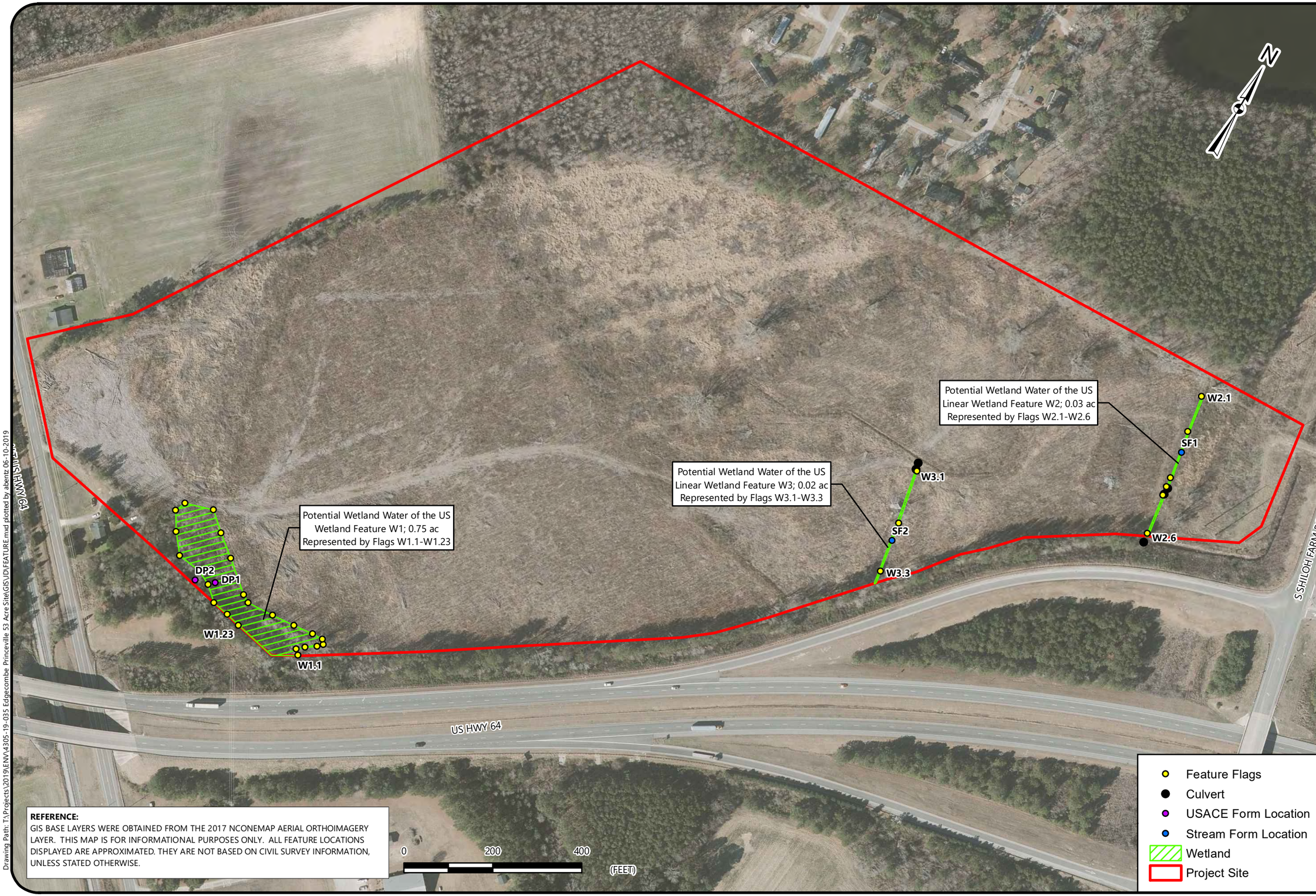
SCALE:
1 " = 208 '

DATE:
6-10-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
6

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\TOPO.mxd plotted by abentz 06-10-2019



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\FEATURE.mxd plotted by abentz 06-10-2019

FEATURE EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:
1 " = 200 '

DATE:
6-7-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
4

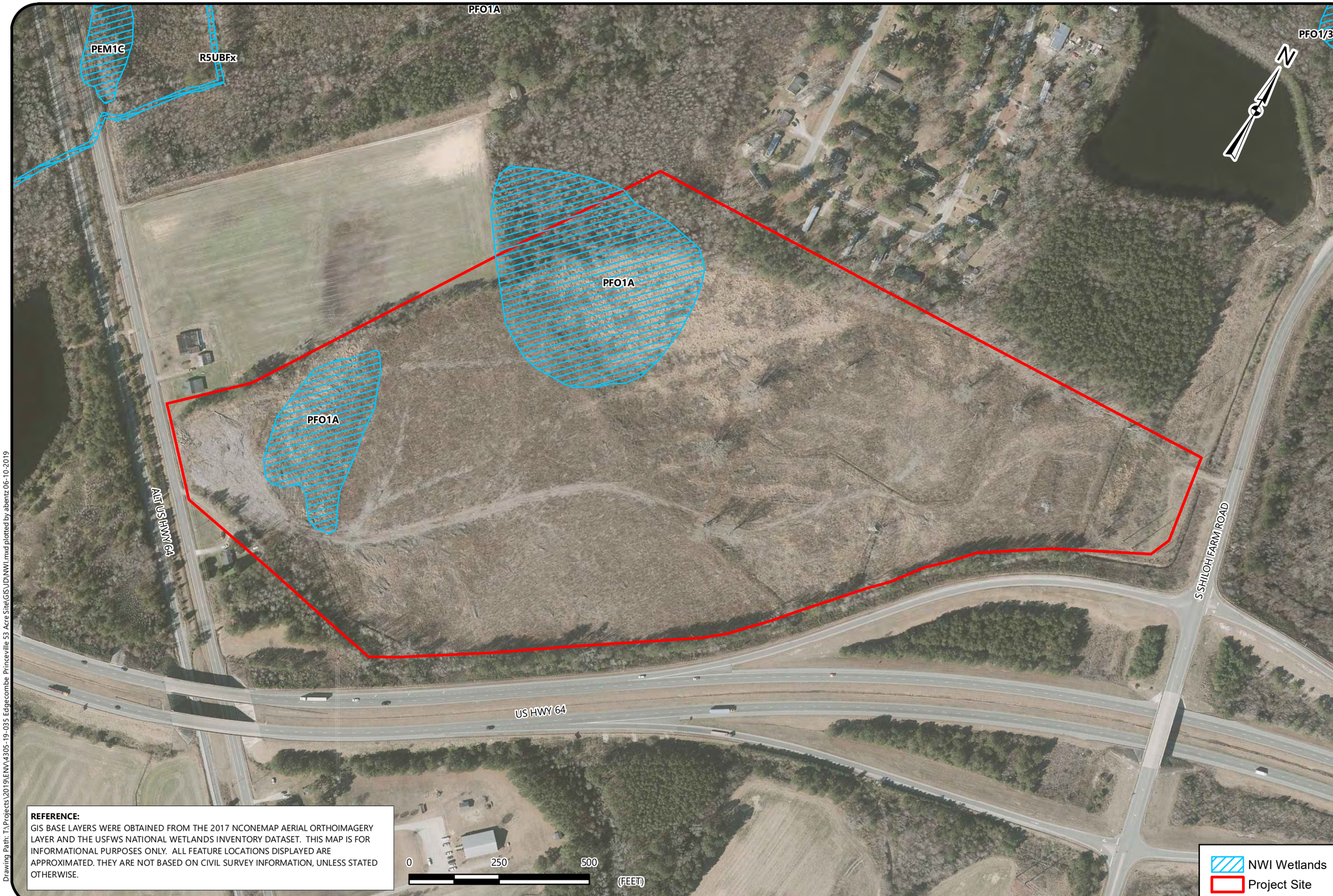
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE NC EMERGENCY MANAGEMENT SPATIAL INFORMATION DATABASE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

LIDAR EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:	1 " = 225 '
DATE:	4-3-19
PROJECT NUMBER	TBD
FIGURE NO.	4

Drawing Path: Q:\PROJECTS\2019\Proposals\Princeville_53Acres\LIDAR2.mxd plotted by abentz 04-05-2019



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER AND THE USFWS NATIONAL WETLANDS INVENTORY DATASET. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

NATIONAL WETLANDS INVENTORY EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:
1 " = 250 '

DATE:
6-7-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
6

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\NWI.mxd plotted by abentz 06-10-2019

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER AND THE USGS NATIONAL HYDROGRAPHY DATASET. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

NATIONAL HYDROGRAPHY DATASET EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

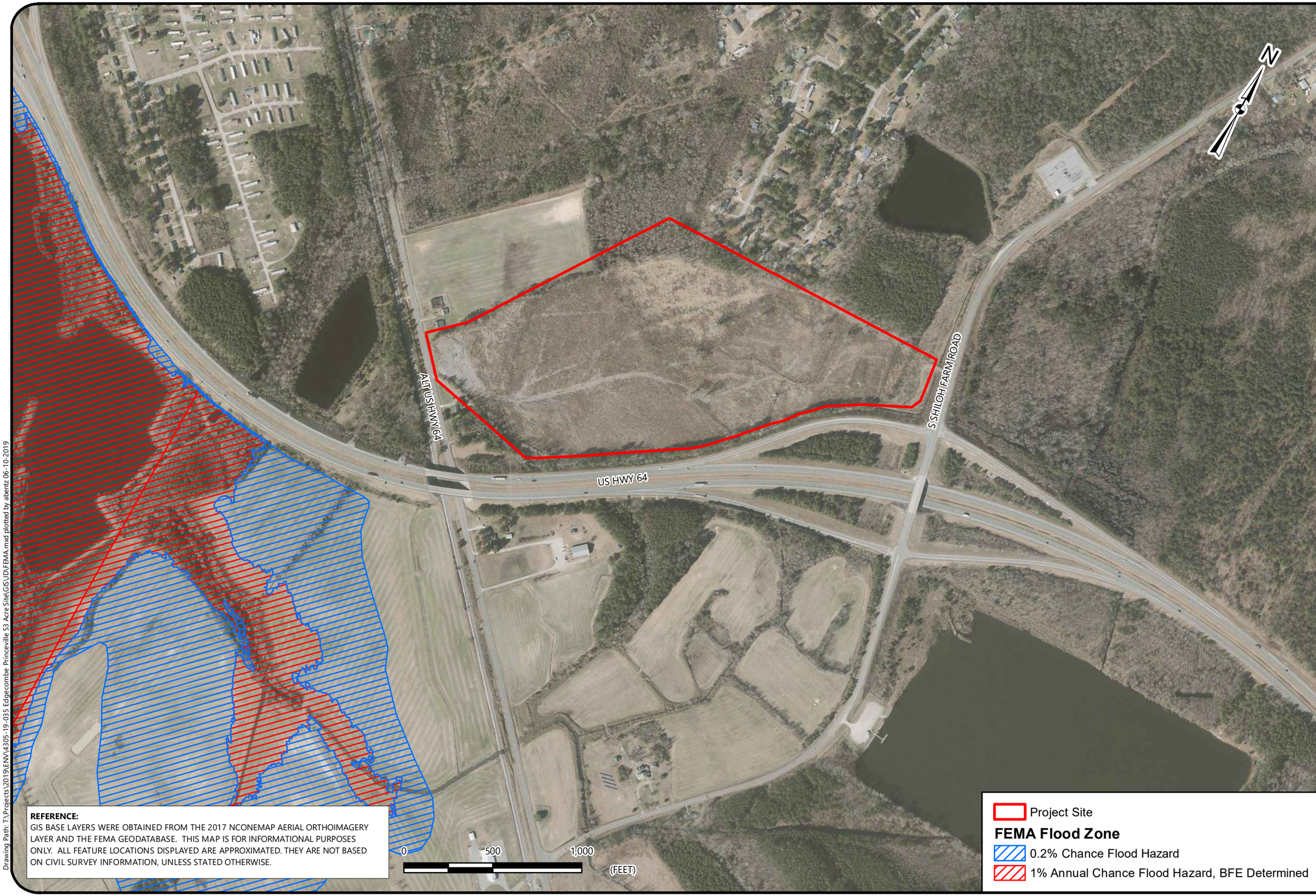
SCALE:
1 " = 500 '

DATE:
6-10-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
7

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\NHD.mxd plotted by abentz 06-10-2019



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER AND THE FEMA GEODATABASE. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

FEMA FLOOD ZONE EXHIBIT

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:
1 " = 500 '

DATE:
6-10-19

PROJECT NUMBER
4305-19-035

FIGURE NO.
8

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\JD\FEMA.mxd plotted by abentz 06-10-2019

U.S. Army Corps of Engineers **WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region** See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	*OMB Control #: 0710-xxxx, Exp: Pending* *Requirement Control Symbol EXEMPT:* *(Authority: AR 335-15, paragraph 5-2a)*

Project/Site: Princeville 53-Acre Site City/County: Princeville / Edgecombe Sampling Date: 5/21/19

Applicant/Owner: Town of Princeville State: NC Sampling Point: DP1

Investigator(s): W. Cole Section, Township, Range: _____

Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): 2-5

Subregion (LRR or MLRA): LRR P Lat: 35.86730 Long: -77.50949 Datum: NAD83

Soil Map Unit Name: Roanoke loam NWI classification: PFO1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No ___ (If no, explain in Remarks.)

Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes ___ No X

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ___	**Is the Sampled Area within a Wetland?** **Yes** X **No** ___
Hydric Soil Present?	Yes X	No ___	
Wetland Hydrology Present?	Yes X	No ___	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- x Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- x Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ___	No x	Depth (inches): ___
Water Table Present?	Yes ___	No x	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No x	Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP1

Tree Stratum (Plot size: 50*50)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Liquidambar styraciflua*	40	Yes	FAC
2. *Acer rubrum*	30	Yes	FAC
3. *Pinus taeda*	10	No	FAC
4.			
5.			
6.			
7.			
8.			
	80	=Total Cover	
50% of total cover: 40		20% of total cover: 16	

Sapling/Shrub Stratum (Plot size: 50*50)			
1. *Liquidambar styraciflua*	10	Yes	FAC
2. *Arundinaria gigantea*	5	Yes	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	15	=Total Cover	
50% of total cover: 8		20% of total cover: 3	

Herb Stratum (Plot size: 10*10)			
1. *Juncus effusus*	60	Yes	OBL
2. *Woodwardia areolata*	2	No	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	62	=Total Cover	
50% of total cover: 31		20% of total cover: 13	

Woody Vine Stratum (Plot size: 15*15)			
1. *Campsis radicans*	15	Yes	FAC
2. *Toxicodendron radicans*	5	Yes	FAC
3. *Smilax rotundifolia*	5	Yes	FAC
4.			
5.			
	25	=Total Cover	
50% of total cover: 13		20% of total cover: 5	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)

SOIL

Sampling Point: DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/1	80	10YR 5/4	20	C	PL	Loamy/Clayey	Distinct redox concentrations
10-18	10YR 6/1	80	10YR 6/3	20	C	PL	Loamy/Clayey	Distinct redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- X Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(outside MLRA 150A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Barrier Islands Low Chroma Matrix (TS7) **(MLRA 153B, 153D)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

U.S. Army Corps of Engineers **WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region** See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	*OMB Control #: 0710-xxxx, Exp: Pending* *Requirement Control Symbol EXEMPT:* *(Authority: AR 335-15, paragraph 5-2a)*

Project/Site: Princeville 53-Acre Site City/County: Princeville/ Edgecombe Sampling Date: 5/21/19

Applicant/Owner: Town of Princeville State: NC Sampling Point: DP2

Investigator(s): W. Cole Section, Township, Range: _____

Landform (hillside, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 2-5%

Subregion (LRR or MLRA): LRR P Lat: 35.86726 Long: -77.50964 Datum: NAD83

Soil Map Unit Name: Altavista fine sandy loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Sphagnum Moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: DP2

Tree Stratum (Plot size: 50*50)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Liquidambar styraciflua*	30	Yes	FAC
2. *Acer rubrum*	20	Yes	FAC
3. *Liriodendron tulipifera*	15	Yes	FACU
4. *Quercus phellos*	5	No	FACW
5.			
6.			
7.			
8.			
	70	=Total Cover	
50% of total cover: 35		20% of total cover:	14

Sapling/Shrub Stratum (Plot size: 50*50)			
1. *Juniperus virginiana*	25	Yes	FACU
2. *Ligustrum sinense*	5	No	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
50% of total cover: 15		20% of total cover:	6

Herb Stratum (Plot size: 10*10)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		=Total Cover	
50% of total cover:		20% of total cover:	

Woody Vine Stratum (Plot size: 10*10)			
1. *Lonicera japonica*	10	Yes	FACU
2. *Smilax rotundifolia*	5	Yes	FAC
3. *Toxicodendron radicans*	5	Yes	FAC
4.			
5.			
	20	=Total Cover	
50% of total cover: 10		20% of total cover:	4

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (If observed, list morphological adaptations below.)

SOIL

Sampling Point: DP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/1	100					Loamy/Clayey	
6-18	10YR 5/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Organic Bodies (A6) **(LRR P, T, U)**
- ___ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___ Muck Presence (A8) **(LRR U)**
- ___ 1 cm Muck (A9) **(LRR P, T)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Coast Prairie Redox (A16) **(MLRA 150A)**
- ___ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR P, S, T, U)**
- ___ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___ Thin Dark Surface (S9) **(LRR S, T, U)**
- ___ Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- ___ Loamy Mucky Mineral (F1) **(LRR O)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) **(LRR U)**
- ___ Depleted Ochric (F11) **(MLRA 151)**
- ___ Iron-Manganese Masses (F12) **(LRR O, P, T)**
- ___ Umbric Surface (F13) **(LRR P, T, U)**
- ___ Delta Ochric (F17) **(MLRA 151)**
- ___ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- ___ Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR O)**
- ___ 2 cm Muck (A10) **(LRR S)**
- ___ Coast Prairie Redox (A16) **(outside MLRA 150A)**
- ___ Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- ___ Piedmont Floodplain Soils (F19) **(LRR P, T)**
- ___ Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- ___ Barrier Islands Low Chroma Matrix (TS7) **(MLRA 153B, 153D)**
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

NC DWQ Stream Identification Form Version 4.11

Date: November 1, 2023	**Project/Site**: Princeville 53-Acre Site	**Latitude:** 35.87092
Evaluator: W. Cole	**County:** Edgecombe	**Longitude:** -77.50765
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 14.25	**Stream Determination (circle one)** **Ephemeral**	**Other** *e.g. Quad Name*: SF1

A. Geomorphology (Subtotal = 4)	Absent	Weak	Moderate	Strong
1[a.] Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Recent alluvial deposits	0	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	No = 0		Yes = 3	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 5)				
12. Presence of Baseflow	0	1	2	3
13. Iron oxidizing bacteria	0	1	2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	0	0.5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3	

C. Biology (Subtotal = 5.25)				
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	1.5
23. Crayfish	0	0.5	1	1.5
24. Amphibians	0	0.5	1	1.5
25. Algae	0	0.5	1	1.5
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

NC DWQ Stream Identification Form Version 4.11

Date: November 1, 2023	**Project/Site**: Princeville 53-Acre Site	**Latitude:** 35.87092
Evaluator: W. Cole	**County:** Edgecombe	**Longitude:** -77.50765
Total Points: *Stream is at least intermittent if ≥ 19 or perennial if ≥ 30** 15	**Stream Determination (circle one)** **Ephemeral**	**Other** *e.g. Quad Name*: SF2

A. Geomorphology (Subtotal = 4)	Absent	Weak	Moderate	Strong
1[a.] Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Recent alluvial deposits	0	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	No = 0		Yes = 3	

[a] artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 5)				
12. Presence of Baseflow	0	1	2	3
13. Iron oxidizing bacteria	0	1	2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	0	0.5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3	

C. Biology (Subtotal = 6)				
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0.5	1	1.5
23. Crayfish	0	0.5	1	1.5
24. Amphibians	0	0.5	1	1.5
25. Algae	0	0.5	1	1.5
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0			

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch:

1 View of linear wetland Feature W2 from Flag W2.2.

2 View of linear wetland Feature W3 from Flag W3.3.

3 View of wetland Feature W1 from location of USACE Data Point 1 (DP1).

4 View of algal mat within wetland Feature W1.

	Site Photographs **Princeville 53-Acre Site** **Princeville, Edgecombe County, North Carolina**	S&ME Project No. 4305-19-035	
		Taken by: A. Bentz	Date Taken: 5/21/19

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Director

NORTH CAROLINA
Environmental Quality

June 7, 2019

Town of Princeville
Dr. Glenda Lawrence-Knight, Town Manager
PO Box 1527
Tarboro, NC 27886
gnight@townofprinceville.com

Subject: Determination Letter
NBRRO #19-172
Edgecombe County

Determination Type:	
Buffer	Intermittent/Perennial
☐ Neuse (15A NCAC 2B .0233) ☒ Tar-Pamlico (15A NCAC 2B .0259) ☐ Jordan (15A NCAC 2B .0267) (governmental and/or interjurisdictional projects)	☐ Intermittent/Perennial Determination (where local buffer ordinances apply)

Project Name: Princeville 53 Acre Site on S. Shiloh Farm Road

Address/Location: Princeville 53 Acre Site on S. Shiloh Farm Road, Tarboro

Stream(s): Cromwell Canal

Determination Date: June 6, 2019 **Staff: Ray Milosh**

Stream	E/I/P*	Not Subject	Subject	Start@	Stop@	Soil Survey	USGS Topo
Stream A	**E**	**X**		**throughout**		**X**	

*Ephemeral/Intermittent/Perennial

Explanation: The stream(s) listed above has been located on the most recent published NRCS Soil Survey of North Carolina and/or the most recent copy of the USGS Topographic map at a 1:24,000 scale. Each stream that is checked "Not Subject" has been determined to not be at least intermittent or is not present.

Streams that are checked "Subject" have been located on the property and possess characteristics that qualify it to be at least an intermittent stream. There may be other streams located on the property that do not show up on the maps referenced above but may be considered jurisdictional according to the US Army Corps of Engineers.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by the DWR may request a determination by the Director. An appeal request must be made within sixty (60) days of date of this letter. A request for a determination by the Director shall be referred to the Director in writing. ***If sending via US Postal Service:*** **c/o** ***Karen Higgins; DWR – 401 & Buffer Permitting Unit; 1617 Mail Service Center; Raleigh, NC 27699-1617. If sending via delivery service (UPS, FedEx, etc.): Karen Higgins; DWR – 401 & Buffer Permitting Unit; 512 N. Salisbury Street; Raleigh, NC 27604.***

This determination is final and binding unless, as detailed above, unless an appeal is requested within sixty (60) days.

This project may require a Section 404/401 Permit for the proposed activity. Any inquiries should be directed to the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

If you have questions regarding this determination, please feel free to contact Ray Milosh at (919) 741-4240.

Sincerely,

Karen Higgins

Karen Higgins, Supervisor
401 & Buffer Permitting Branch

cc: RRO DWR File Copy
abentz@smeinc.com

Princeville 53 Acre Site on South Shiloh Farm Road

19-172

Stream	E/I/P*	Not Subject	Subject	Start@	Stop@	Soil Survey	USGS Topo
A	E	X		throughout		X	

NRCS Soil Survey

Legend:

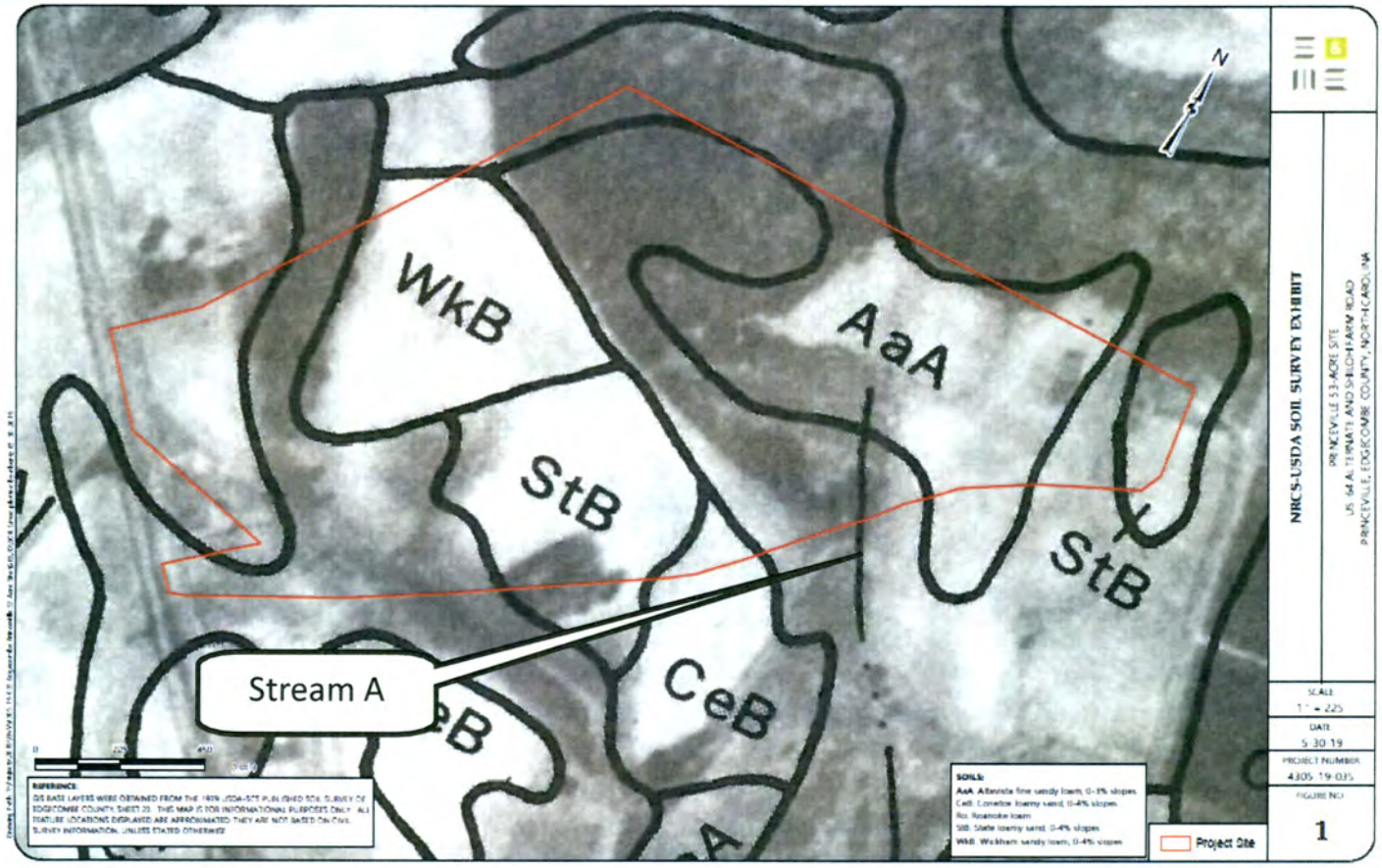
-project boundary

:: Locations are approximate and are provided for reference only ::

N

Princeville 53 Acre Site on South Shiloh Farm Road

19-172



Stream	E/I/P*	Not Subject	Subject	Start@	Stop@	Soil Survey	USGS Topo
A	E	X		throughout		X	

Legend:

-Project boundary

:: Locations are approximate and are provided for reference only ::

N

APPENDIX 2

- **Early Notice and Public Review of a Proposed Activity in Wetlands**
- **Affidavit for Publication of Early Notice**
- **Distribution List to Interested Agencies, Groups and Individuals**
- **Early Notice Comments**

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED ACTIVITY IN WETLAND

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT
53-ACRE SITE ALONG U.S. HIGHWAY 64 WEST BETWEEN SOUTH MAIN STREET AND SOUTH SHILOH FARM ROAD; AND 1029 LYNCH DRIVE, PRINCEVILLE, EDGECOMBE COUNTY, NC 27886

November 17, 2023

To: All interested Agencies, Groups and Individuals

This is to give notice that the North Carolina Office of Recovery and Resiliency (NCORR) has received an application from the Town of Princeville to use U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Mitigation (CDBG-MIT) funding under 24 CFR 58 from the Infrastructure Recovery Program to implement the Princeville 53-Acre Site Redevelopment Project (Proposed Activity) located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive in Princeville, Edgecombe County, NC 27886 (Subject Property) which contains a wetland. There will also be work in the public rights-of-way for stormwater infrastructure; water and sanitary sewer connections; ingress/egress access points and turn lanes on S. Main Street (U.S. Hwy 64 Alt. East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures connecting to 30" reinforced concrete pipe (RCP) along U.S. Hwy 64 West. NCORR is conducting an evaluation as required by Executive Order 11990 in accordance with HUD regulations (24 CFR Part 55) including identifying and evaluating practicable alternatives to locating the Proposed Activity in wetland and the Proposed Activity's potential impacts on these special areas. There are three primary purposes for this notice. First, people who may be affected by activities in wetlands, and those who have an interest in the protection of the natural environment, should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative locations outside of wetlands, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, adequate public notice is an important public education tool. The dissemination of information and request for public comment about wetlands facilitates and enhances governmental efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the government determines it will participate in actions taking place in wetlands, it must inform those who may be put at greater or continued risk.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 citizens residing in the Town of Princeville were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and municipal facilities were also damaged or displaced, severely limiting the extent and reliable delivery of those services. The Town of Princeville has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (such as police and fire stations, public works facility, and Town Hall Annex); offices and commercial buildings; single- and multi-family housing (Apartments [unit #s to be determined], Townhouses [22 units], and Single-Family Homes [15 units]); and open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Hwy 64 Alt. East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The Proposed Activity includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCPs with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Hwy 64 West.

The Proposed Activity is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events.

The Proposed Activity will result in no direct or indirect, temporary or permanent impacts to an approximately 0.75-acre Freshwater Forested/ Shrub Wetland (PFO1A) U.S. Army Corps of Engineers (USACE) verified, delineated wetland located on the Subject Property. There are no other wetlands located on the Subject Property. The NC Department of Environmental Quality (DEQ) Division of Water Resources (DWR) reviewed two onsite ephemeral streams and determined them to not be at least intermittent or not present. As designed, the proposed construction will not encroach into the wetland. The USACE confirmed the delineation for avoidance and minimization and permitting purposes. Therefore, no wetland impacts are expected, Clean Water Act Section 404 and 401 permits will not be required, and mitigation is not required.

Wetlands are beneficial by providing diverse wildlife habitat, flood and erosion control, surface water quality maintenance, groundwater recharge, and educational, scientific, cultural, and recreational opportunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. Best management practices for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping and site

restoration, and a proposed onsite stormwater retention pond installed. Since the Proposed Activity will avoid the wetland and incorporate these measures, no indirect wetland impacts or negative impacts to wetland functions and values are anticipated. The proposed activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work.

The location maps, site plans, USFWS NWI Map, USACE correspondence, Preliminary Jurisdictional Determination Request, and supporting documentation are available for review at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews. A full description of the Proposed Activity may also be viewed in person, by appointment only, at: NCORR, 200 Park Offices Drive, Durham, NC 27709. Call (984) 833-5350 to make an appointment.

Written comments must be received by NCORR at the following address on or before December 4, 2023: Laura Hogshead, Director, NCORR, ATTN: Princeville 53-Acre Site Redevelopment, P.O. Box 110465, Durham, NC 27709. Comments may also be submitted by email to publiccomments@rebuild.nc.gov with "ATTN: Princeville 53-Acre Site Redevelopment Comments" in the subject line.

APG
Media of Eastern North Carolina

The Daily Reflector - The Daily Advance - The Rocky Mount Telegram
Bertie Ledger - Chowan Herald - Duplin Times - Farmville Enterprise - Perquimans Weekly
Standard Laconic - Tarboro Weekly - Times Leader - Williamston Enterprise
PO Box 1967, Greenville NC 27835
(252) 329-9500

PAID VIA

☐ Cash ☐ Credit Card

☐ Check #_____

Date Paid _____

TOWN OF PRINCEVILLE
3003 NORTH MAIN STREET
TARBORO NC 27886

Copy Line: PRINCEVILLE 53-ACRE SITE
Lines: 245
Total Price: $486.60

Account: 132294 Ticket: 456129

PUBLISHER'S AFFIDAVIT

NORTH CAROLINA
Nash County

Bryan Wilson affirms that he/she is clerk of Rocky Mount Telegram, a newspaper published daily at Rocky Mount, North Carolina, and that the advertisement, a true copy of which is hereto attached, entitled PRINCEVILLE 53-ACRE SITE was published in said Rocky Mount Telegram on the following dates:

Friday, November 17, 2023

and that the said newspaper in which such notice, paper, document or legal advertisement was published, was at the time of each and every publication, a newspaper meeting all of the requirements and qualifications of Chapter 1, Section 597 of the General Statutes of North Carolina and was a qualified newspaper within the meaning of Chapter 1, Section 597 of the General Statutes of North Carolina.

Bryan Wilson

Affirmed and subscribed before me this 8th day of December 2023

Kimberly Goff Bandy
(Notary Public Signature)

Kimberly Goff Bandy
(Notary Public Printed Name)

My commission expires 02.22.2026

KIMBERLY GOFF BANDY
Notary Public, North Carolina
Nash County
My Commission Expires
February 22, 2026

EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED ACTIVITY IN WETLAND

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT 53-ACRE SITE ALONG U.S. HIGHWAY 64 WEST BETWEEN SOUTH MAIN STREET AND SOUTH SHILOH FARM ROAD; AND 1029 LYNCH DRIVE, PRINCEVILLE, EDGECOMBE COUNTY, NC 27886

November 17, 2023

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10/17/2023

EARLY NOTICE DISTRIBUTION LIST

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT

53-ACRE SITE ALONG U.S. HIGHWAY 64 WEST BETWEEN SOUTH MAIN STREET AND SOUTH SHILOH FARM ROAD; AND 1029 LYNCH DRIVE, PRINCEVILLE, EDGECOMBE COUNTY, NC 27886

Published in Rocky Mount Telegram on 11/17/23, comments end 12/4/23

FEDERAL AGENCIES

Agency	Name & Address	Method
HUD NC	Mr. Lenwood E. Smith, II Environmental Protection Specialist Greensboro Field Office U.S. Dept. of Housing and Urban Development 1500 Pinecroft Road, Suite 401 Greensboro, NC 27407-3838	Lenwood.E.Smith@hud.gov
FEMA, Region IV	Ms. Gracia B. Szczech, Regional Administrator U.S. Dept. of Homeland Security FEMA, Region IV 3003 Chamblee Tucker Road Atlanta, GA 30341	FedEx
FEMA ATTN: 11988	*Hard copies may also be mailed to* Attn: 11988/NEPA Reviewer (EHP) DHS/FEMA RIV 3003 Chamblee Tucker Road Atlanta, GA 30341	FEMA-R4EHP@fema.dhs.gov *with the subject line* **REVIEW REQUEST: 11990/NEPA**
US EPA, Region 4	Ms. Ntale Kajumba, NEPA Coordinator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	Kajumba.ntale@epa.gov
USFWS – Raleigh Field Office	USFWS – Raleigh Field Office ATTN: John Ellis P.O. Box 33726 Raleigh, NC 27636 ph.: 919-856-4520, ext. 26	john_ellis@fws.gov cc: leigh_mann@fws.gov
USACE – Wilmington District	Billy Standridge – Edgecombe County USACE – Wilmington District 69 Darlington Avenue Wilmington, NC 28403	billy.w.standridge@usace.army.mil

	910-251-4595	
TRIBES, NATIONS AND COMMUNITIES (who asked to be notified)		
Catawba Indian Nation	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road Rock Hill, SC 29730	Does not want Notice
Catawba Indian Nation	Chief Bill Harris Catawba Indian Nation 996 Avenue of the Nations Rock Hill, SC 29730	Does not want Notice
Tuscarora Nation	Chief Tom Jonathan Tuscarora Nation 5226 Walmore Road Lewiston, NY 14092 Ph: (716) 601-4737	Does not want Notice
Tuscarora Nation	Mr. Bryan Printup, THPO Tuscarora Nation 5226 Walmore Road Lewiston, NY 14092 Ph: (716) 264-6011	Does not want Notice
NC STATE AGENCIES		
STATE CLEARING-HOUSE	Ms. Crystal Best North Carolina Department of Administration State Environmental Review Clearinghouse 1301 Mail Service Center Raleigh, North Carolina 27699-1301	State.Clearinghouse@doa.nc.gov crystal.best@doa.nc.gov
LOCAL AGENCIES		
COUNTY	Eric Evans, County Manager Edgecombe County P.O. Box 10 Tarboro, NC 27886 (252) 641-7835	EricEvans@edgecombeco.com
COUNTY	Katina Braswell, Planning Director Edgecombe County Planning Department P.O. Box 10 Tarboro, NC 27886 (252) 641-7835	KatinaBraswell@edgecombeco.com
COUNTY	Fran Mungo Clerk to the Board Edgecombe County	franmungo@edgecombeco.com

	201 St. Andrew St. Tarboro, NC 27886 (252) 641-7834	
CITY	Dr. Glenda Knight Town Manager Princeville Town Hall 201 South Main Street Princeville, NC 27886 Phone: (252) 823-1057	gknight@townofprinceville.com
CITY	Ms. Antionette Wheeler Town Clerk Town of Princeville Princeville Town Hall 201 South Main Street Princeville, NC 27886 Phone: 252-823-1057	awheeler@townofprinceville.com NEW

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:42 AM
To: Smith, Lenwood E
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in Wetland* publishing November 17, 2023 for the NCORR Infrastructure Recovery Program's Princeville 53-Acre Site Redevelopment proposed project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:43 AM
To: FEMA-R4EHP@fema.dhs.gov
Subject: REVIEW REQUEST: 11990/NEPA - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:44 AM
To: Kajumba, Ntale
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:45 AM
To: john_ellis@fws.gov
Cc: Mann, Leigh
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:46 AM
To: billy.w.standridge@usace.army.mil
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:47 AM
To: State Clearinghouse
Cc: Best, Crystal
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
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Community Development
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Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:47 AM
To: Evans, Eric T
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
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(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:48 AM
To: Katina Braswell
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:49 AM
To: franmungo@edgecombeco.com
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

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(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:51 AM
To: Knight, Glenda
Cc: Blankenship, Bill
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in Wetland* publishing November 17, 2023 for the NCORR Infrastructure Recovery Program's Princeville 53-Acre Site Redevelopment proposed project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: Gievers, Andrea
Sent: Friday, November 17, 2023 10:51 AM
To: Rudd, Jessica
Subject: Public Notice - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments: NCORR Princeville 53 Acre Site Early Notice 11.17.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in Wetland* publishing November 17, 2023 for the NCORR Infrastructure Recovery Program's Princeville 53-Acre Site Redevelopment proposed project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Gievers, Andrea

From: gknight@townofprinceville.com
Sent: Friday, November 17, 2023 10:56 AM
To: Gievers, Andrea
Cc: Blankenship, Bill; awheeler@townofprinceville.com
Subject: [External] RE: Early Notice - Invoice

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

We will take care of this and please remove Jessica and replace with the current Clerk (copied herein). Thanks!

Glenda L Knight
Town Manager
Town of Princeville
Email: gknight@townofprinceville.com
Website: www.townofprinceville.com
Phone: (252) 823-1057
Fax: (252) 824-0430

"Alone we are one drop, together we are an ocean."
Emails to and from this email address may be subject to the North Carolina Public Records Law and may be subject to disclosure.

From: "Gievers, Andrea" <andrea.l.gievers@rebuild.nc.gov>
Sent: 11/15/23 11:31 AM
To: "Knight, Glenda" <gknight@townofprinceville.com>
Cc: "Blankenship, Bill" <bill.blankenship@rebuild.nc.gov>, "Rudd, Jessica"<jrudd@townofprinceville.com>
Subject: Early Notice - Invoice

Hello Dr. Knight:

The Early Notice for the Princeville 53-Acre Site Redevelopment is publishing this Friday in the Rocky Mount Telegram. Please pay the attached invoice of $486.60. If they send you the affidavit of publication, then please forward it to me as I need it for the EA. Let me know if you have any questions. Thank you so much!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

-----Original Message-----
From: kbandy@apgenc.com <kbandy@apgenc.com>
Sent: Wednesday, November 15, 2023 10:41 AM
To: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Subject: [External] Ad: 456129, EARLY NOTICE AND PUBLIC REVIEW OF A

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Best Regards,

Kimberly Bandy
Customer Care
The Daily Reflector
The Rocky Mount Telegram
The Daily Advance
252-329-9522
kbandy@apgenc.com

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FedEx Express — Package US Airbill

FedEx Tracking Number 8175 0328 8313

Form ID No. 0200

Sender's Copy

1 From *Please print and press hard.*

Date 11/17/23 Sender's FedEx Account Number 8950-9899-0

Sender's Name Andrea Gievers Phone (845 682-1700

Company NCORR

Address 123 Kings Hill Rd Dept./Floor/Suite/Room

City Walden State NY ZIP 12586

2 Your Internal Billing Reference First 24 characters will appear on invoice. Princeville 53 EN

3 To Recipient's Name Ms. Gracia Szczech Phone ( )

Company FEMA, Region 4

Address 3003 Chamblee Tucker Rd Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Atlanta State GA ZIP 30341

☐ Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service *To most locations.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☒ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods? One box must be checked.

☐ No ☐ Yes — As per associated Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry ice, 9, UN 1845 _____ x _____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

This airbill can be used only when billing to a FedEx account number. For cash, check, or credit card transactions, please go to a staffed shipping location.

☐ Sender — Acct. No. in Section 1 will be billed. Enter FedEx Acct. No. below. ☐ Recipient ☐ Third Party

FedEx Acct. No.

Total Packages _____ Total Weight _____ lbs. Total Declared Value† $ _____ .00

†Our liability is limited to US$100 unless you declare a higher value. See back for details. By using this airbill you agree to the service conditions on the back of this airbill and in the current FedEx Service Guide, including terms that limit our liability.

Rev. Date 4/22 • Part #167002 • ©2012-2022 FedEx • PRINTED IN U.S.A.

644

Ship it. Track it. Pay for it. All online.
Go to fedex.com.

Gievers, Andrea

From:	FEMA-R4EHP <FEMA-R4EHP@fema.dhs.gov>
Sent:	Tuesday, December 5, 2023 10:05 AM
To:	Gievers, Andrea
Cc:	Ducote, Dustin; Helmuth, Cary; Rooks, Whitney; Garnett, Dontrey
Subject:	[External] RE: REVIEW REQUEST: 11990/NEPA - Early Notice - Princeville 53-Acre Site Redevelopment
Attachments:	20211207 EMA-2020-BR-100-0032 Phase I REC.pdf; 20211206 EMA-2020-BR-100-0032 COMPLETENESS MEMO.pdf
Follow Up Flag:	Follow up
Flag Status:	Flagged

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Good morning Andrea,

Thank you for sending this to us. We have no comments as it pertains to EO 11988 and EO 11990 at this time. But I would like to notify you of the FEMA funding action for this project.

Within the FEMA Building Resilient Infrastructure and Communities (BRIC) grant, we awarded a Phase I project to assist Princeville with architectural and engineer designing and scoping efforts with an expected Phase II construction ready project to come into to us in the Spring 2024 timeframe. There may be a space and time in which we could possibly do a joint environmental and historic preservation review or designate lead agency in various roles.

We expect that the FEMA BRIC Phase II project will require FEMA to complete a NEPA Environmental Assessment and will require Section 106 and Section 7 consultations. FEMA EHP issued a EHP review and memo for the Phase I architectural and engineering project to set expectations. Please see attached REC (FEMA legal binding environmental review document) and a Memo setting some broad expectations for FEMA Phase II review.

Additionally, I am including the FEMA team that will be involved with this project.

Dustin Ducote (me) and Cary Helmuth: Environmental Protection Specialist
Whitney Rooks: Section 106 Historic Preservation Specialist
Dontrey Garnett: FEMA Grant Program Lead for NC BRIC Projects (included for awareness).

Thank you,

Dustin Ducote
Environmental Protection Specialist | EHP Office | FEMA Region 4
Mobile: (202) 255-8672
dustin.ducote@fema.dhs.gov

Federal Emergency Management Agency
fema.gov

FEMA

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Friday, November 17, 2023 10:43 AM
To: FEMA-R4EHP <FEMA-R4EHP@fema.dhs.gov>
Subject: REVIEW REQUEST: 11990/NEPA - Early Notice - Princeville 53-Acre Site Redevelopment

CAUTION: This email originated from outside of DHS. DO NOT click links or open attachments unless you recognize and/or trust the sender. Please select the Phish Alert Report button on the top right of your screen to report this email if it is unsolicited or suspicious in nature.

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in Wetland* publishing November 17, 2023 for the NCORR Infrastructure Recovery Program's Princeville 53-Acre Site Redevelopment proposed project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

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APPENDIX 3

- **Combined FONSI/NOI-RROF/ Final Notice and Public Explanation of a Proposed Activity in Wetland**

- **Affidavit for Publication of Final Notice *(to be added)***

- **Distribution List to Interested Agencies, Groups and Individuals**

- **Final Notice Comments *(to be added)***

PUBLIC NOTICE
COMBINED NOTICE OF FINDING OF NO SIGNIFICANT IMPACT (*FONSI*), NOTICE OF INTENT TO REQUEST RELEASE OF FUNDS (*NOI-RROF*), AND FINAL NOTICE AND PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN WETLAND

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT
53-ACRE SITE ALONG U.S. HIGHWAY 64 WEST BETWEEN SOUTH MAIN STREET AND SOUTH SHILOH FARM ROAD; AND 1029 LYNCH DRIVE, PRINCEVILLE, EDGECOMBE COUNTY, NC 27886

December 23, 2023

To: All interested Agencies, Groups and Individuals

Name of Responsible Entity and Recipient: North Carolina Office of Recovery and Resiliency (NCORR), P.O. Box 110465, Durham, NC 27709. Contact: Director Laura Hogshead (984) 833-5350.

Pursuant to 24 CFR 58.43, this combined Notice of Finding of No Significant Impact (FONSI), Notice of Intent to Request Release of Funds (NOI-RROF), and Final Notice and Public Explanation of a Proposed Activity in a Wetland satisfies three separate procedural requirements for project activities proposed to be undertaken by NCORR.

Project Description: NCORR is responsible for the direct administration of the United States Department of Housing and Urban Development (HUD) Community Development Block Grant – Mitigation (CDBG-MIT) program in North Carolina. NCORR proposes to provide CDBG-MIT funding from the Infrastructure Recovery Program of $9,929,000.00 for the Princeville 53-Acre Site Redevelopment Project (Proposed Activity) located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road (Parcel IDs #474714756400 and 474724794700); and 0.32-acre parcel at 1029 Lynch Drive in Princeville, Edgecombe County, NC 27886 (Parcel ID #474725155200) (Subject Property). There will also be work in the public rights-of-way for stormwater infrastructure; water and sanitary sewer connections; ingress/egress access points and turn lanes on S. Main Street (U.S. Hwy 64 Alt. East) and S. Shiloh Farm Road; water line and road connections to Lynch Drive; and outlet structures

connecting to 30-inch reinforced concrete pipe (RCP) along U.S. Hwy 64 West. The Proposed Activity is anticipated to have a total cost of $11,429,000.00 for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure. This is Phase One of a multi-phase project with a current estimated total cost of $32,308,536.00 (including Phase One) which will ultimately redevelop the vacant 53-acre site with critical town facilities (such as police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing (Apartments [unit #s to be determined], Townhouses [22 units], and Single-Family Homes [15 units]), a stormwater retention pond, and community open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Hwy 64 Alt. East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The Proposed Activity includes engineering designs, site surveys, and geotechnical investigations; construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure; potential land acquisition for a two-lane collector road, water line connection and parking areas; relocation of utility poles; and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30-inch RCP along U.S. Hwy 64 West.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, a large majority of the 2,357 Town residents were displaced by floodwaters due in part to the location of the Town along the Tar River. According to the Coastal Resilience Center, approximately 450 homes were destroyed during the hurricane and subsequent flooding, and an estimated 80 percent of the Town was underwater. Many of the Town's commercial and municipal facilities were also damaged or displaced, severely limiting the extent and reliable delivery of those services. The purpose and intent of the Proposed Activity is to relocate the Town's residents, municipal facilities, and commercial enterprises that are affected hardest by flooding and storm surge out of the Tar River floodplain and floodway. There has been widespread community and Town leadership support for the Proposed Activity.

PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A WETLAND

NCORR has conducted an evaluation as required by Executive Order (EO) 11990, in accordance with HUD regulations at 24 CFR 55 Subpart C Procedures for Making Determinations on Floodplain Management and Wetlands Protection. As designed, the proposed construction will not encroach into the wetland. The Proposed Activity will result in no direct or indirect, temporary or permanent impacts to an approximately 0.75-acre U.S. Army Corps of Engineers (USACE) verified, delineated Freshwater Forested/ Shrub Wetland (PFO1A) located on the Subject Property. There are no other wetlands located on the Subject Property. The NC Department of Environmental Quality (DEQ) Division of Water Resources (DWR) reviewed two onsite ephemeral streams and determined them to not be at least intermittent or not present. The NC DEQ DWR determined that the Proposed Activity is not subject to the CWA Section 401 permit and

Tar-Pamlico River Riparian Buffer Authorization. The USACE confirmed the delineation for avoidance, minimization and permitting purposes.

NCORR has considered the alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values. This Proposed Activity involves utilizing the Subject Property located outside of 100-year floodplain for development, and project designs have been completed in accordance with agency input to minimize impacts to the wetland, environment and community. The Town-owned 53-acre site contains a wetland but provides the most logical and cost-effective site for relocation of residents and commercial and municipal facilities within Town limits. Numerous alternative and concerted projects have been considered to address Princeville's historic flooding over the years. Additionally, several plans and studies have evaluated various strategies to understand and address the flood damage prevention and recovery effort in Princeville. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. A full discussion of alternatives is in the EO 11990 Protection of Wetlands Determination available for public viewing.

According to the Princeville Recovery Plan, there are three main alternatives including 1) Individual Actions (residential buyout and elevation), 2) Internal Shift (Proposed Activity), and 3) Community-wide Relocation ("new town" location out of floodplain may include expansion of 53-acre site) and FEMA's seven alternatives (elevation only, rebuild with elevation, buyout with demolition, multiple strategies, strategic retreat, no action, and relocation [Proposed Activity]). The evaluation of identified alternatives included their ability to address displaced residents, interrupted municipal services, business development, cost-effectiveness, ease of implementation, financial and economic costs, and overall flood hazard protection. The Proposed Activity best meets these needs and retains the most population within the Town. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding would reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Thus, the Town of Princeville has selected the Proposed Activity to assist its residents, municipal and commercial facilities, and community to be protected from future storm damage and flooding.

The Subject Property was chosen as the most suitable for the Proposed Activity due to its location outside of 100-year floodplain, close proximity to the historic town center, existing nearby infrastructure and utility connections, suitability for mixed-use development with U.S. Hwy 64 frontage, community support, and that the Town owns the 53-acre site. A different project location is not feasible since it would most likely require additional funding for the acquisition of a new site. With the "No Action" Alternative, the Town would have to endure the continued threat to the public health and safety and property damage to residences and commercial and municipal facilities from future storm events and repetitive flooding. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating the Town's plan and vision for a safer and more sustainable and successful "Greater Princeville."

Wetlands are beneficial by providing diverse wildlife habitat, flood and erosion control, surface water quality maintenance, groundwater recharge, and educational, scientific, cultural, and recreational opportunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. The Proposed Activity has been designed to avoid construction in the only wetland located on the Subject Property. Best management practices for erosion and sedimentation control such as silt fencing will be utilized during construction, green open spaces incorporated, native plants used in landscaping, and a stormwater retention pond installed. Since the Proposed Activity will avoid the wetland and incorporate these measures, no indirect wetland impacts or negative impacts to wetland functions and values are anticipated. Since no direct or indirect, temporary or permanent wetland impacts are proposed, Clean Water Act Section 404 and 401 permits, a Tar-Pamlico Riparian Buffer Authorization, and mitigation are not required. The proposed activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. Required permits such as the NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000) shall be obtained before commencing work. The Proposed Activity and site location are the most suitable, feasible option selected by the Town after a lengthy process to assist its residents and community to be protected from future storm events; the "No Action" alternative would not effectively address the Town's numerous concerns; no construction is proposed in wetland; and best management practices are incorporated.

Since the action will include new construction on a parcel containing incidental wetland, EO 11990 requires that the Proposed Activity not be supported if there are practicable alternatives to wetland impacts. NCORR has reevaluated the alternatives to new construction on a parcel containing wetland, and has determined that it has no practicable alternative. The 8-step process has been further documented in the EO 11990 Wetlands Protection Determination which is available for viewing and copying as described below in Public Review.

There are three primary purposes for this notice. First, people who may be affected by activities in wetlands and those who have an interest in the protection of the natural environment are given an opportunity to express their concerns and provide information about these areas. Second, adequate public notice is an important public education tool. The dissemination of information and request for public comment about wetlands can facilitate and enhance federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in wetlands, it must inform those who may be put at greater or continued risk.

FINDING OF NO SIGNIFICANT IMPACT

An Environmental Assessment (EA) for the Proposed Activity has been prepared in accordance with the National Environmental Policy Act of 1969 (NEPA) and HUD environmental review regulations at 24 CFR Part 58. The EA is incorporated by reference into this FONSI. Subject to public comments, no further review of the Proposed Activity is anticipated. NCORR has determined that the EA for the Proposed Activity identified herein complies with the requirements of HUD environmental review regulations at 24 CFR Part 58. NCORR has determined that the Proposed Activity will have no significant impact on the human environment and, therefore, does not require the preparation of an environmental impact statement under NEPA.

Public Review: Public viewing of the EA, environmental review record, and EO 11990 Protection of Wetlands Determination is available online at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews. Documents may also be viewed in person by appointment only at: NCORR, 200 Park Offices Drive, Durham, NC 27709. Call (984) 833-5350 to make an appointment.

Further information may be requested by writing to the above address, emailing publiccomments@rebuild.nc.gov or calling (984) 833-5350. This combined notice is being sent to individuals and groups known to be interested in these activities, local news media, appropriate local, state and federal agencies, the regional office of the U.S. Environmental Protection Agency having jurisdiction, and the HUD Field Office, and is being published in a newspaper of general circulation in the affected community.

Public Comments on the Proposed Activity within Wetland, FONSI and/or NOIRROF: Any individual, group or agency may submit written comments on the Proposed Activity. The public is hereby advised to specify in their comments which "notice" their comments address. Comments should be submitted via email, in the proper format, on or before January 8, 2024 at publiccomments@rebuild.nc.gov. Written comments may also be submitted by mail, in the proper format, to be received on or before January 8, 2024, and addressed to: Laura Hogshead, Director, NCORR, ATTN: Princeville 53-Acre Site Redevelopment Project, P.O. Box 110465, Durham, NC 27709. All comments must be received on or before January 8, 2024 or they will not be considered. If modifications result from public comment, these will be made prior to proceeding with the submission of a request for release of funds.

REQUEST FOR RELEASE OF FUNDS AND CERTIFICATION

On or after January 9, 2024, the NCORR certifying officer will submit a request and certification to HUD for the release of CDBG-MIT funds as authorized by related laws and policies for the purpose of undertaking this Proposed Activity under the North Carolina CDBG-MIT Infrastructure Recovery Program.

NCORR certifies to HUD that Laura Hogshead, in her capacity as Certifying Officer, consents to accept the jurisdiction of the U.S. federal courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities, and allows NCORR to use CDBG-MIT program funds.

Objections to Release of Funds: HUD will accept objections to its release of funds and NCORR's certification for a period of fifteen days following the anticipated submission date or its actual receipt of the request (whichever is later). Potential objectors should contact HUD or the NCORR Certifying Officer to verify the actual last day of the objection period.

The only permissible grounds for objections claiming a responsible entity's non-compliance with 24 CFR Part 58 are: (a) certification was not executed by NCORR's Certifying Officer; (b) the responsible entity has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR Part 58; (c) the grant recipient or other participants in the development process have committed funds, incurred costs or undertaken activities not authorized by 24 CFR

Part 58 before HUD's release of funds and approval of environmental certification; or (d) another federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality.

Objections must be prepared and submitted in accordance with the required procedures (24 CFR 58.76) and shall be addressed to Tennille Smith Parker, Director, Office of Disaster Recovery, U.S. Department of Housing and Urban Development, 451 7th Street SW, Washington, DC 20410, Phone: (202) 402-4649, or emailed to disaster_recovery@hud.gov.

Laura H. Hogshead
Certifying Officer
December 23, 2023

FONSI/NOI-RROF/FINAL NOTICE WETLAND - DISTRIBUTION LIST

PRINCEVILLE 53-ACRE SITE REDEVELOPMENT

53-ACRE SITE ALONG U.S. HIGHWAY 64 WEST BETWEEN SOUTH MAIN STREET AND SOUTH SHILOH FARM ROAD; AND 1029 LYNCH DRIVE, PRINCEVILLE, EDGECOMBE COUNTY, NC 27886

Published in Rocky Mount Telegram on 12/23/23, comments end 1/8/24

FEDERAL AGENCIES

Agency	Name & Address	Method
HUD NC	Mr. Lenwood E. Smith, II Environmental Protection Specialist Greensboro Field Office U.S. Dept. of Housing and Urban Development 1500 Pinecroft Road, Suite 401 Greensboro, NC 27407-3838	Lenwood.E.Smith@hud.gov
FEMA, Region IV	Ms. Gracia B. Szczech, Regional Administrator U.S. Dept. of Homeland Security FEMA, Region IV 3003 Chamblee Tucker Road Atlanta, GA 30341	FedEx
FEMA ATTN: 11988	*Hard copies may also be mailed to* Attn: 11988/NEPA Reviewer (EHP) DHS/FEMA RIV 3003 Chamblee Tucker Road Atlanta, GA 30341	FEMA-R4EHP@fema.dhs.gov *with the subject line* **REVIEW REQUEST: 11990/NEPA**
US EPA, Region 4	Ms. Ntale Kajumba, NEPA Coordinator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	Kajumba.ntale@epa.gov
USFWS – Raleigh Field Office	USFWS – Raleigh Field Office ATTN: John Ellis P.O. Box 33726 Raleigh, NC 27636 ph.: 919-856-4520, ext. 26	john_ellis@fws.gov cc: leigh_mann@fws.gov
USACE – Wilmington District	Billy Standridge – Edgecombe County USACE – Wilmington District 69 Darlington Avenue Wilmington, NC 28403 910-251-4595	billy.w.standridge@usace.army.mil

TRIBES, NATIONS AND COMMUNITIES (who asked to be notified)		
Catawba Indian Nation	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road Rock Hill, SC 29730	Does not want Notice
Catawba Indian Nation	Chief Bill Harris Catawba Indian Nation 996 Avenue of the Nations Rock Hill, SC 29730	Does not want Notice
Tuscarora Nation	Chief Tom Jonathan Tuscarora Nation 5226 Walmore Road Lewiston, NY 14092 Ph: (716) 601-4737	Does not want Notice
Tuscarora Nation	Mr. Bryan Printup, THPO Tuscarora Nation 5226 Walmore Road Lewiston, NY 14092 Ph: (716) 264-6011	Does not want Notice
NC STATE AGENCIES		
STATE CLEARING-HOUSE	Ms. Crystal Best North Carolina Department of Administration State Environmental Review Clearinghouse 1301 Mail Service Center Raleigh, North Carolina 27699-1301	State.Clearinghouse@doa.nc.gov crystal.best@doa.nc.gov
LOCAL AGENCIES		
COUNTY	Eric Evans, County Manager Edgecombe County P.O. Box 10 Tarboro, NC 27886 (252) 641-7835	EricEvans@edgecombeco.com
COUNTY	Katina Braswell, Planning Director Edgecombe County Planning Department P.O. Box 10 Tarboro, NC 27886 (252) 641-7835	KatinaBraswell@edgecombeco.com
COUNTY	Fran Mungo, Clerk to the Board Edgecombe County 201 St. Andrew St. Tarboro, NC 27886 (252) 641-7834	franmungo@edgecombeco.com

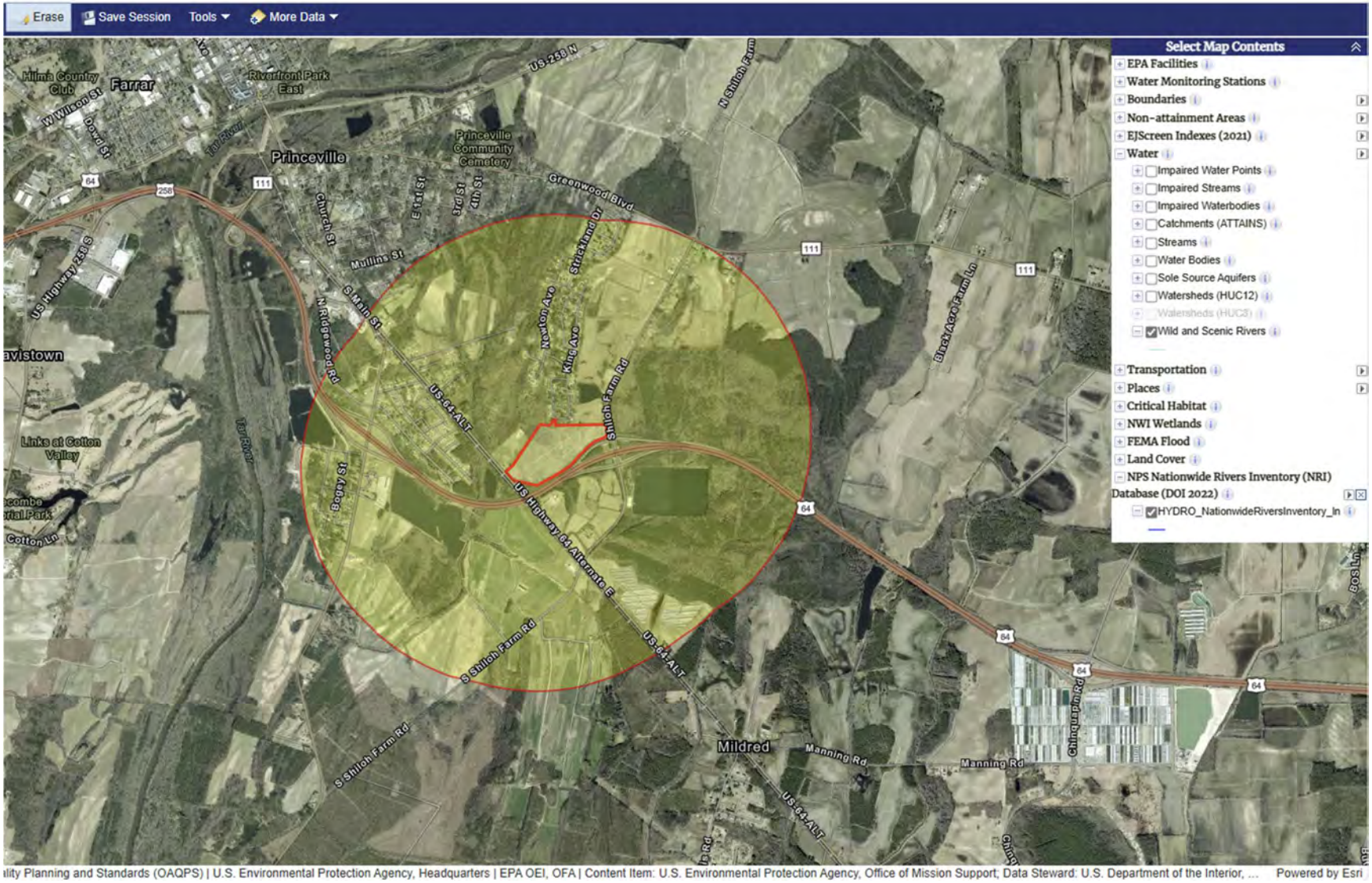
CITY	Dr. Glenda Knight Town Manager Princeville Town Hall 201 South Main Street Princeville, NC 27886 Phone: (252) 823-1057	gknight@townofprinceville.com
CITY	Ms. Antionette Wheeler Town Clerk Town of Princeville Princeville Town Hall 201 South Main Street Princeville, NC 27886 Phone: 252-823-1057	awheeler@townofprinceville.com

ATTACHMENT 16:

Wild and Scenic Rivers

NEPAssist NRI and WSR Map with 1-mile Buffer,
NRI Map, and WSR Map

Princeville 53-acre Site Redevelopment – NRI and WSR Map with 1-mile Buffer

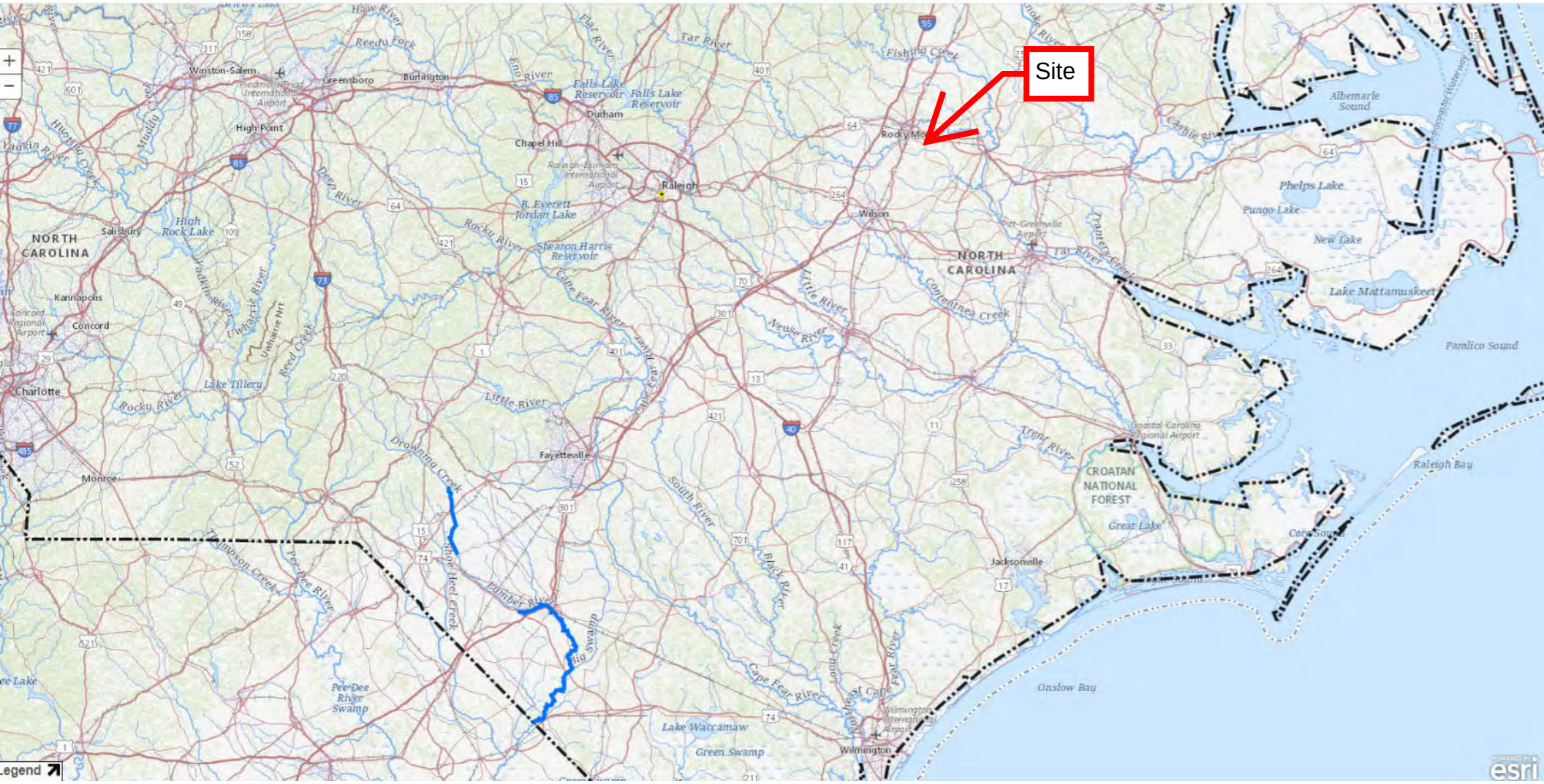


Nationwide Rivers Inventory

This is a listing of more than 3,200 free-flowing river segments in the U.S. that are believed to possess one or more "outstandingly remarkable" values.

National Park Service
U.S. Department of the Interior

Wild and Scenic River System Map

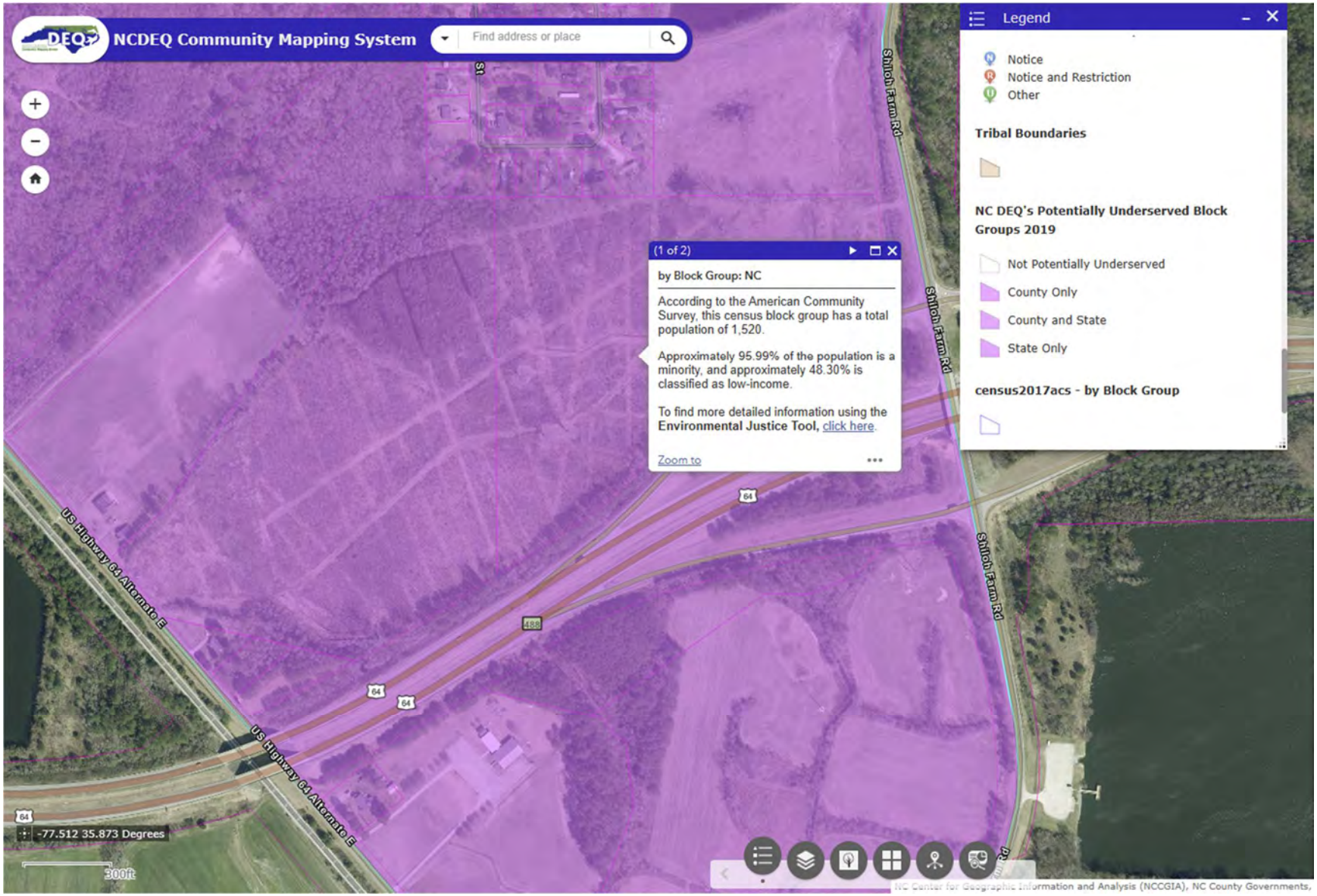


ATTACHMENT 17:

Environmental Justice

NC DEQ Community Mapping System Results, EJScreen Community Report, EJScreen ACS Summary Report, EJScreen Census 2010 Summary Report, Executive Order 13146 – President's Council on the Future of Princeville, North Carolina, and CDC Report for Edgecombe County

Princeville 53-acre Site Redevelopment – NCDEQ Community Mapping System Results



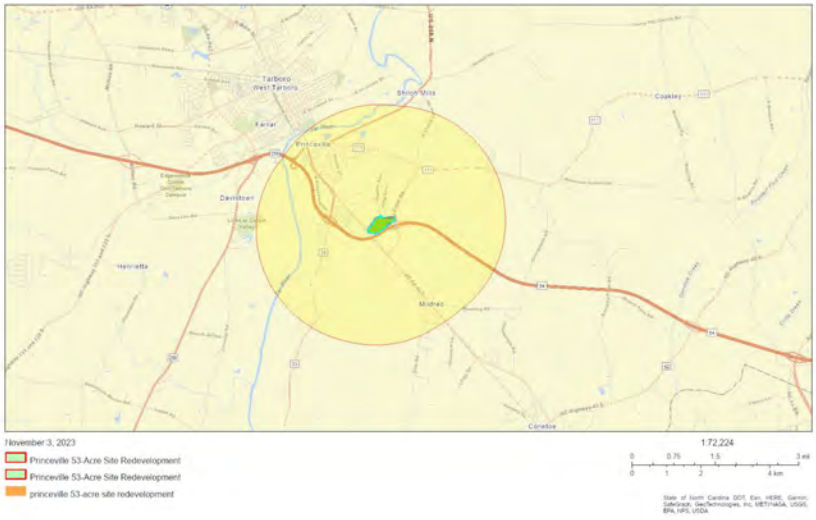
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Edgecombe County, NC

2 miles Ring around the Area
Population: 2,299
Area in square miles: 15.20

A3 Landscape



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	94%
Spanish	2%
French, Haitian, or Cajun	2%
Other Asian and Pacific Island	2%
Total Non-English	6%

COMMUNITY INFORMATION

- Low income: 54 percent
- People of color: 86 percent
- Less than high school education: 21 percent
- Limited English households: 0 percent
- Unemployment: 10 percent
- Persons with disabilities: 21 percent
- Male: 44 percent
- Female: 56 percent
- 76 years — Average life expectancy
- $17,976 — Per capita income
- Number of households: 889
- Owner occupied: 71 percent

BREAKDOWN BY RACE

- White: 14%
- Black: 79%
- American Indian: 0%
- Asian: 0%
- Hawaiian/Pacific Islander: 0%
- Other race: 0%
- Two or more races: 2%
- Hispanic: 5%

BREAKDOWN BY AGE

From Ages 1 to 4	4%
From Ages 1 to 18	26%
From Ages 18 and up	74%
From Ages 65 and up	18%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	0%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race.
Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

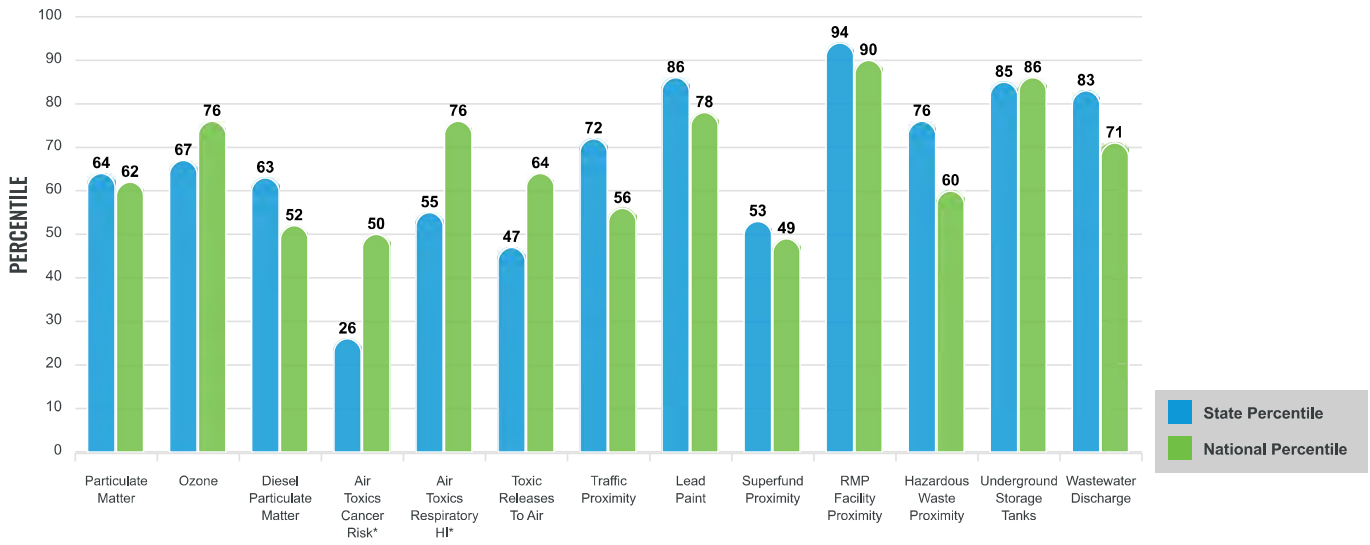
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

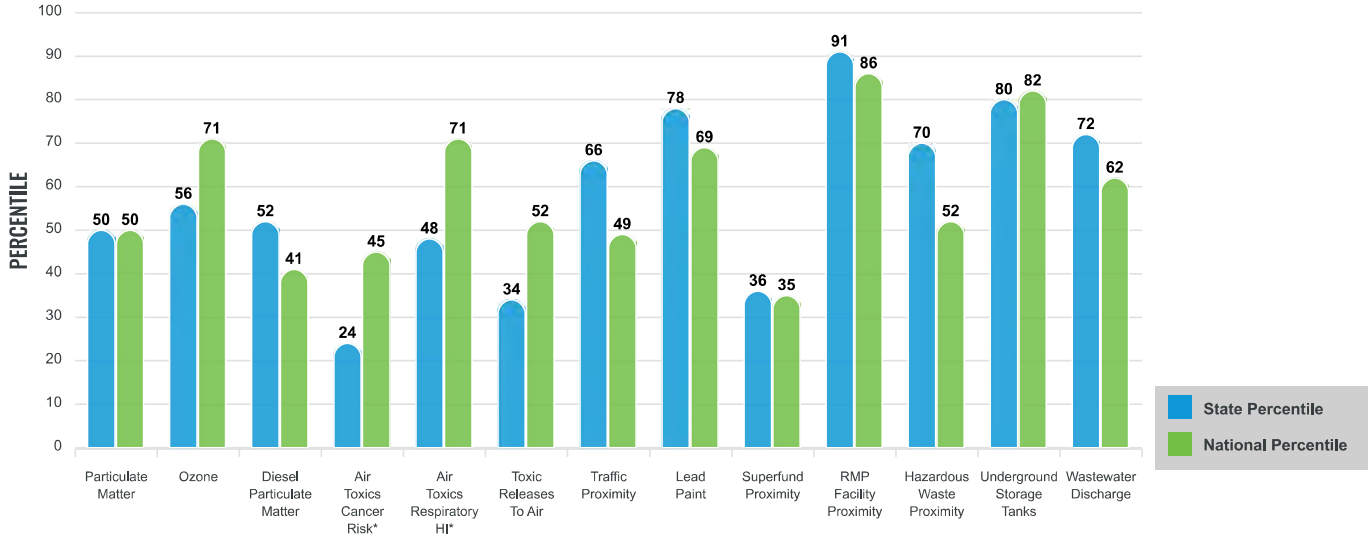
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 2 miles Ring around the Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu g/m^3$)	7.2	7.8	26	8.08	25
Ozone (ppb)	60	61.7	30	61.6	40
Diesel Particulate Matter ($\mu g/m^3$)	0.106	0.168	26	0.261	18
Air Toxics Cancer Risk* (lifetime risk per million)	20	27	1	25	5
Air Toxics Respiratory HI*	0.3	0.34	9	0.31	31
Toxic Releases to Air	120	3,100	18	4,600	25
Traffic Proximity (daily traffic count/distance to road)	20	79	39	210	24
Lead Paint (% Pre-1960 Housing)	0.14	0.17	57	0.3	41
Superfund Proximity (site count/km distance)	0.019	0.081	19	0.13	16
RMP Facility Proximity (facility count/km distance)	0.39	0.26	83	0.43	72
Hazardous Waste Proximity (facility count/km distance)	0.13	0.52	40	1.9	25
Underground Storage Tanks (count/km^2)	2.7	3.9	65	3.9	65
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00017	0.25	45	22	34
SOCIOECONOMIC INDICATORS					
Demographic Index	70%	36%	92	35%	90
Supplemental Demographic Index	22%	15%	85	14%	83
People of Color	86%	37%	92	39%	86
Low Income	54%	34%	82	31%	84
Unemployment Rate	10%	6%	83	6%	82
Limited English Speaking Households	0%	2%	0	5%	0
Less Than High School Education	21%	12%	83	12%	82
Under Age 5	4%	5%	40	6%	38
Over Age 64	18%	18%	58	17%	61
Low Life Expectancy	26%	21%	92	20%	92

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund 0
Hazardous Waste, Treatment, Storage, and Disposal Facilities 0
Water Dischargers 3
Air Pollution 0
Brownfields 3
Toxic Release Inventory 0

Other community features within defined area:

Schools 1
Hospitals 0
Places of Worship 0

Other environmental data:

Air Non-attainment ..... Yes
Impaired Waters ..... Yes

Selected location contains American Indian Reservation Lands* ..... No
Selected location contains a "Justice40 (CEJST)" disadvantaged community ..... Yes
Selected location contains an EPA IRA disadvantaged community ..... Yes

Report for 2 miles Ring around the Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	26%	21%	92	20%	92
Heart Disease	8.1	6.5	78	6.1	85
Asthma	12.3	9.4	97	10	92
Cancer	5.5	6.2	29	6.1	35
Persons with Disabilities	20%	14%	84	13.4%	86

CLIMATE INDICATORS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	6%	10%	49	12%	48
Wildfire Risk	0%	9%	0	14%	0

CRITICAL SERVICE GAPS					
INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	40%	16%	93	14%	95
Lack of Health Insurance	6%	11%	23	9%	45
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

Footnotes

Report for 2 miles Ring around the Area

EJSCREEN ACS Summary Report

Location: User-specified polygonal location
Ring (buffer): 2-miles radius
Description: Princeville 53-Acre Site Redevelopment

Summary of ACS Estimates	2017 - 2021
Population	2,299
Population Density (per sq. mile)	151
People of Color Population	1,980
% People of Color Population	86%
Households	889
Housing Units	1,217
Housing Units Built Before 1950	73
Per Capita Income	17,976
Land Area (sq. miles) (Source: SF1)	15.21
% Land Area	99%
Water Area (sq. miles) (Source: SF1)	0.16
% Water Area	1%

	2017 - 2021 ACS Estimates	Percent	MOE (±)
Population by Race			
Total	2,299	100%	594
Population Reporting One Race	2,171	94%	969
White	318	14%	313
Black	1,812	79%	526
American Indian	0	0%	13
Asian	0	0%	13
Pacific Islander	0	0%	13
Some Other Race	40	2%	91
Population Reporting Two or More Races	128	6%	132
Total Hispanic Population	124	5%	132
Total Non-Hispanic Population	2,174		
White Alone	318	14%	313
Black Alone	1,812	79%	526
American Indian Alone	0	0%	13
Non-Hispanic Asian Alone	0	0%	13
Pacific Islander Alone	0	0%	13
Other Race Alone	0	0%	13
Two or More Races Alone	44	2%	45
Population by Sex			
Male	1,008	44%	203
Female	1,290	56%	428
Population by Age			
Age 0-4	85	4%	73
Age 0-17	607	26%	218
Age 18+	1,692	74%	256
Age 65+	422	18%	117

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race.
N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2017 - 2021 .

EJSCREEN ACS Summary Report

Location: User-specified polygonal location
Ring (buffer): 2-miles radius
Description: Princeville 53-Acre Site Redevelopment

	2017 - 2021 ACS Estimates	Percent	MOE (±)
Population 25+ by Educational Attainment			
Total	1,476	100%	328
Less than 9th Grade	152	10%	73
9th - 12th Grade, No Diploma	158	11%	91
High School Graduate	673	46%	169
Some College, No Degree	304	21%	109
Associate Degree	79	5%	107
Bachelor's Degree or more	111	7%	85
Population Age 5+ Years by Ability to Speak English			
Total	2,214	100%	590
Speak only English	2,097	95%	446
Non-English at Home[1+2+3+4]	116	5%	79
[1]Speak English "very well"	84	4%	76
[2]Speak English "well"	31	1%	58
[3]Speak English "not well"	1	0%	46
[4]Speak English "not at all"	0	0%	45
[3+4]Speak English "less than well"	1	0%	64
[2+3+4]Speak English "less than very well"	32	1%	86
Linguistically Isolated Households*			
Total	0	0%	26
Speak Spanish	0	0%	13
Speak Other Indo-European Languages	0	0%	13
Speak Asian-Pacific Island Languages	0	0%	13
Speak Other Languages	0	0%	13
Households by Household Income			
Household Income Base	889	100%	170
< $15,000	145	16%	88
$15,000 - $25,000	133	15%	64
$25,000 - $50,000	300	34%	98
$50,000 - $75,000	169	19%	78
$75,000 +	143	16%	110
Occupied Housing Units by Tenure			
Total	889	100%	170
Owner Occupied	636	71%	131
Renter Occupied	254	29%	109
Employed Population Age 16+ Years			
Total	1,813	100%	368
In Labor Force	941	52%	228
Civilian Unemployed in Labor Force	98	10%	53
Not In Labor Force	871	48%	233

Data Note: Datail may not sum to totals due to rounding. Hispanic population can be of anyrace.
N/A means not available. **Source:** U.S. Census Bureau, American Community Survey (ACS)
*Households in which no one 14 and over speaks English "very well" or speaks English only.

EJSCREEN ACS Summary Report

Location: User-specified polygonal location
Ring (buffer): 2-miles radius
Description: Princeville 53-Acre Site Redevelopment

	2017 - 2021 ACS Estimates	Percent	MOE (±)
Population by Language Spoken at Home*			
Total (persons age 5 and above)	1,908	100%	440
English	1,797	94%	444
Spanish	31	2%	39
French, Haitian, or Cajun	43	2%	13
German or other West Germanic	0	0%	13
Russian, Polish, or Other Slavic	0	0%	13
Other Indo-European	0	0%	13
Korean	0	0%	13
Chinese (including Mandarin, Cantonese)	0	0%	13
Vietnamese	0	0%	13
Tagalog (including Filipino)	0	0%	13
Other Asian and Pacific Island	37	2%	44
Arabic	0	0%	13
Other and Unspecified	0	0%	13
Total Non-English	111	6%	625

Data Note: Detail may not sum to totals due to rounding. Hispanic popultion can be of any race.
N/A meansnot available. **Source:** U.S. Census Bureau, American Community Survey (ACS) 2017 - 2021.
*Population by Language Spoken at Home is available at the census tract summary level and up.

EJSCREEN Census 2010 Summary Report

Location: User-specified polygonal location
Ring (buffer): 2-miles radius
Description: Princeville 53-Acre Site Redevelopment

Summary	Census 2010
Population	3,253
Population Density (per sq. mile)	210
People of Color Population	2,895
% People of Color Population	0.8898340939195613%
Households	1,215
Housing Units	1,331
Land Area (sq. miles)	15.47
% Land Area	0.9892098279398764%
Water Area (sq. miles)	0.17
% Water Area	0.010790172060123625%

Population by Race	Number	Percent
Total	3,253	-------
Population Reporting One Race	3,236	).9948268764869248%
White	379	).1164993585884111%
Black	2,808	).8630704449502222%
American Indian	6	)185945898634036 3%
Asian	2	)7115217066858535%
Pacific Islander	0	0%
Some Other Race	41	L2686092255265229%
Population Reporting Two or More Races	17	)5173123513075198%
Total Hispanic Population	73	22340138100246872%
Total Non-Hispanic Population	3,180	).9776598618997534%
White Alone	358	L1016590608043889%
Black Alone	2,799	8604602096924872%
American Indian Alone	6	L7419581234437897%
Non-Hispanic Asian Alone	2	)7115217066858535%
Pacific Islander Alone	0	0%
Other Race Alone	1	40411316313897124%
Two or More Races Alone	14	04176153133558664%

Population by Sex	Number	Percent
Male	1,469	45146513846699177%
Female	1,784	).5485348615330082%

Population by Age	Number	Percent
Age 0-4	212	6506568573937115%
Age 0-17	844	2595406327479614%
Age 18+	2,409	7404593672520386%
Age 65+	373	1478426861415718%

Households by Tenure	Number	Percent
Total	1,215	
Owner Occupied	799	6575544871741912%
Renter Occupied	416	3424455128258088%

Data Note: Detail may not sum to totals due to rounding. Hispanic population can be of any race.
Source: U.S. Census Bureau, Census 2010 Summary File 1.

The American Presidency Project

(https://www.presidency.ucsb.edu/)

WILLIAM J. CLINTON (/PEOPLE/PRESIDENT/WILLIAM-J-CLINTON)

Executive Order 13146—Presidents Council on the Future of Princeville, North Carolina

February 29, 2000

By the authority vested in me as President by the Constitution and the laws of the United States of America, and in order to develop recommendations for Federal agency actions to address the future of Princeville, North Carolina, it is hereby ordered as follows:

Section 1. Policy. Princeville, North Carolina (Princeville) has a unique place in American history. This small city in eastern North Carolina was the first city in the United States founded by ex-slaves. In its history, Princeville has been damaged by floods many times. Recently, it was devastated by floods caused by Hurricane Floyd. In response to the damage, appropriate Federal agencies have already begun repair and recovery efforts to assist Princeville. However, it is the policy of this Administration to do more to help this city that occupies such a significant place in our history. Therefore, this order will create an interagency council to develop recommendations for further actions to address the future of Princeville.

Sec. 2. Establishment. (a) There is established the "President's Council on the Future of Princeville, North Carolina" (Council). The Council shall comprise the Secretaries of Defense, Agriculture, Commerce, Labor, Health and Human Services, Housing and Urban Development, Transportation, the Director of the Office of Management and Budget (OMB), the Administrator of the Environmental Protection Agency, the Commander of the Army Corps of Engineers, the Administrator of the Small Business Administration, the Director of the Federal Emergency Management Agency, the Assistant to the President for Domestic Policy, the Assistant to the President for Economic Policy, and the Assistant to the President for Intergovernmental Affairs, or their designees, and such other executive department and agency (agencies) representatives as the President may deem appropriate. The Council shall consult with other agencies and State and local governments, as appropriate.

(b) The Director of the Office of Management and Budget, or his designee, shall serve as Chair of the Council.

Sec. 3. Functions. The Council shall develop recommendations for the President on further agency and legislative actions that can be undertaken to address the future of Princeville. In developing the recommendations, the Council shall consider, among other things: (a) the unique historic and cultural importance of Princeville in American history; (b) the views and recommendations of the relevant State and local governments, the private sector, citizens, community groups, and non-profit organizations, on actions that they all could take to enhance the future of Princeville and its citizens; and (c) agency assessments andrecommendations to repair and rebuild Princeville, and, to the extent practicable, protect Princeville from future floods. The Council, through its Chair, shall submit its recommendations to the President. Where appropriate, the Council's recommendations shall include draft legislation requesting additional funding or other authorities to aid in the reconstruction and protection of Princeville.

Sec. 4. Coordination. At the request of the Chair, agencies shall cooperate with and provide information to the Council.

Sec. 5. Judicial Review. This order is not intended to, nor does it create, any right or benefit, substantive or procedural, enforceable at law by a party against the United States, it agencies, its officers or employees, or any other

person.

William J. Clinton

THE WHITE HOUSE,

February 29, 2000.

William J. Clinton, Executive Order 13146—Presidents Council on the Future of Princeville, North Carolina Online by Gerhard Peters and John T. Woolley, The American Presidency Project
https://www.presidency.ucsb.edu/node/227837

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

ENVIRONMENTAL PUBLIC HEALTH TRACKING – INFO BY LOCATION (/showHome.action)

The places where you live, work, and play may affect your health.

You can use this **Info by Location** tool to get a snapshot of some of the environmental health issues for your area.

Enter a county name.

Don't know the county name? Type in a zip code instead.

SUBMIT

Select Topics (optional) »

Edgecombe County, North Carolina†

POPULATION: 55,554

INCOME

Average Household Income

Edgecombe County: $45,156

North Carolina: $59,616

Residents who live below the poverty line

24.1%

Edgecombe County

12.9%

North Carolina

QUICK FACTS:

Out of 10 people living in this county

SEX

5 are male & 5 are female

AGE

About 3 are between the ages of 0 and 19 years

About 2 are between the ages of 20 and 34 years

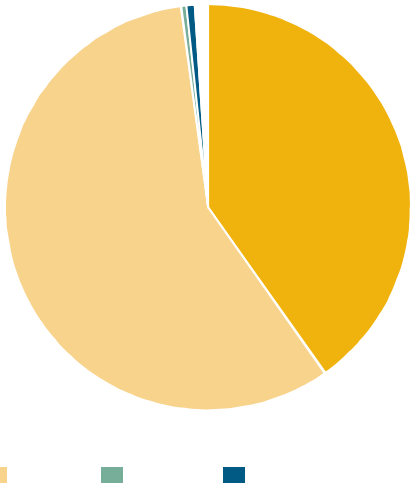
About 2 are between the ages of 35 and 49 years

About 4 are 50 years and older

ETHNICITY

Less than 1 are Hispanic and 10 are non-Hispanic

RACE



(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

rned%20some%20quick%20facts%20about%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (../../DataExplorer?query=C7380B65-728D-4621-A122-47283CF8B444&G5=9999) | Learn more about this topic (/showPcMain.action)

† 2021 data from the National Environmental Public Health Tracking Network (/showHome.action)

Asthma†

Percent of **adults** who currently have asthma

% %

Asthma is a chronic disease that affects the airways that carry oxygen in and out of the lungs. Asthma can cause

- shortness of breath,
- wheezing,
- coughing, and

- tightness in the chest.

Asthma attacks have been linked to many factors, including exposure to environmental hazards like

- allergens,
- tobacco smoke, and
- indoor and outdoor air pollution.

Asthma can be controlled by taking medication and avoiding triggers that can cause an attack.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

rned%20some%20quick%20facts%20about%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showAsthma.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Air Quality: Ground-Level Ozone†

Edgecombe County residents were exposed to unhealthy levels of ozone for in .

Ozone occurs naturally in the sky and helps protect us from the sun's harmful rays. But ground-level ozone can be bad for your health and the environment. Ground-level ozone is one of the biggest parts of smog.

When ozone levels are above the national standard, everyone should try to limit their contact with it by reducing the amount of time spent outside.

Edgecombe County residents were exposed to unhealthy levels of ozone for in .

Check the EPA's Air Quality Index (AQI) at AirNow.gov (http://www.AirNow.gov) to see the current air quality conditions for your location. You can use the AQI to plan your daily activities to reduce exposure to ozone.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

rned%20some%20quick%20facts%20about%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showAirHealth.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Air Quality: Particulate Matter†

ANNUAL AMBIENT CONCENTRATION OF $PM_{2.5}$

$\mu g/m^3$*

Edgecombe County, North Carolina

μg/m^3*

Annual National Standard

*Micrograms Per Cubic Meter (μg/m^3)

Air pollution is a leading environmental threat to human health.
Particles in the air like dust, dirt, soot, and smoke are one kind of air pollution called particulate matter. Fine particulate matter, or $PM_{2.5}$, is so small that it cannot be seen in the air. Breathing in $PM_{2.5}$ may

- lead to breathing problems,
- make asthma symptoms or some heart conditions worse, and
- lead to low birth weight.

The national standard for annual $PM_{2.5}$ levels is **12.0μg/m^3**. When $PM_{2.5}$ levels are above 12, this means that air quality is more likely to affect your health.

In , the annual level of $PM_{2.5}$ in **Edgecombe County** was **μg/m^3**. *

* Micrograms per cubic meter (./images/content/PM2-5_5.jpg) (μg/m^3)

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

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Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showAirLanding.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Smoking†

Tobacco use is the single most preventable cause of death and disease in the United States. Smoking harms nearly every organ of the body. It causes many diseases and reduces the health of smokers in general. The negative health effects from cigarette smoking account for an estimated 500,000 deaths, or nearly 1 of every 5 deaths, each year in the United States.

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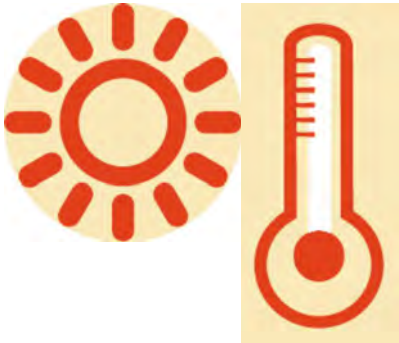
Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showHBSmokingPrevalence.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Extreme Heat†



with temperatures above 90°F

Extreme summer heat is increasing in the United States, and climate projections indicate that extreme heat events will be more frequent and intense in coming decades. Extremely hot weather can cause illness or even death. Knowing how hot it gets in your area can help you prepare for extremely hot temperatures and prevent heat related illness (http://emergency.cdc.gov/disasters/extremeheat/heattips.asp).

Edgecombe County had with maximum temperatures above 90°F during May-September .

Heat-related death or illnesses are preventable if you follow a few simple steps.

- Stay cool.
- Stay hydrated.
- Stay informed.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

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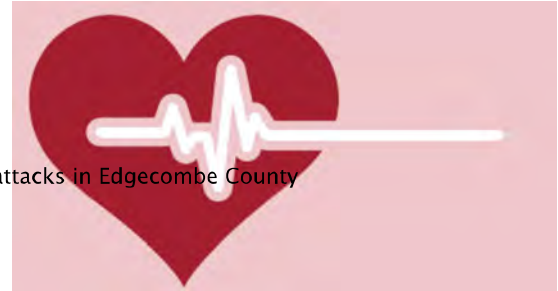
Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showClimateChangeExtremeHeat.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Heart Attacks†



deaths from heart attacks in Edgecombe County

The environment is one of several factors (/showHeartExpRisk.action) that can lead to an increased risk for heart disease. High levels of air pollution and extreme hot and cold temperatures have been linked to increases in heart disease and deaths from heart attacks. A heart attack happens when a part of the heart muscle dies or gets damaged because of reduced blood supply.

In , there were

- **deaths** from heart attacks in Edgecombe County.
- **deaths** from heart attacks in North Carolina.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

rned%20some%20quick%20facts%20about%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showHeartAttack.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Access To Parks†

Live within half a mile of a park in Edgecombe County

Having access to places for physical activity, like parks, encourages people to get active and do so more often. The closer you live to a park, the more likely you are to walk or bike there. Walking and biking to parks can decrease air pollution and car crashes, which in turn, can reduce chronic disease rates and traffic-related injuries.

In ,

of people living in **Edgecombe County** lived within half a mile of a park.

of people living in **North Carolina** lived within half a mile of a park.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20#environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

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Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showProximityToHighways.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Proximity To Highways†

of Edgecombe County population that live within 150m of a highway

Traffic-related air pollution is a major cause of unhealthy air quality, especially in urban areas. Many health problems have been linked to exposure to traffic-related air pollution. The closer your home or school is to a major highway, the more likely you and your family are to be exposed to traffic-related air pollution.

In , of the population of Edgecombe County lived within 150 meters* of a major highway.

In , of Edgecombe County public schools were sited within 150 meters* of a major highway.

* 150 meters is about 2 blocks.

(https://twitter.com/share?

url=https%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

rned%20some%20quick%20facts%20about%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (/showProximityToHighways.action)

† data from the National Environmental Public Health Tracking Network (/showHome.action)

Share this page with this link (../InfoByLocation/?FIPS=37065&topics=1,10,2,3,4,5,6,7,8).

Vulnerability Disclosure Policy (https://www.hhs.gov/vulnerability-disclosure-policy/index.html)

Visit the Tracking Network for more information about your health and the environment.

www.cdc.gov/ephtracking (http://www.cdc.gov/ephtracking/)

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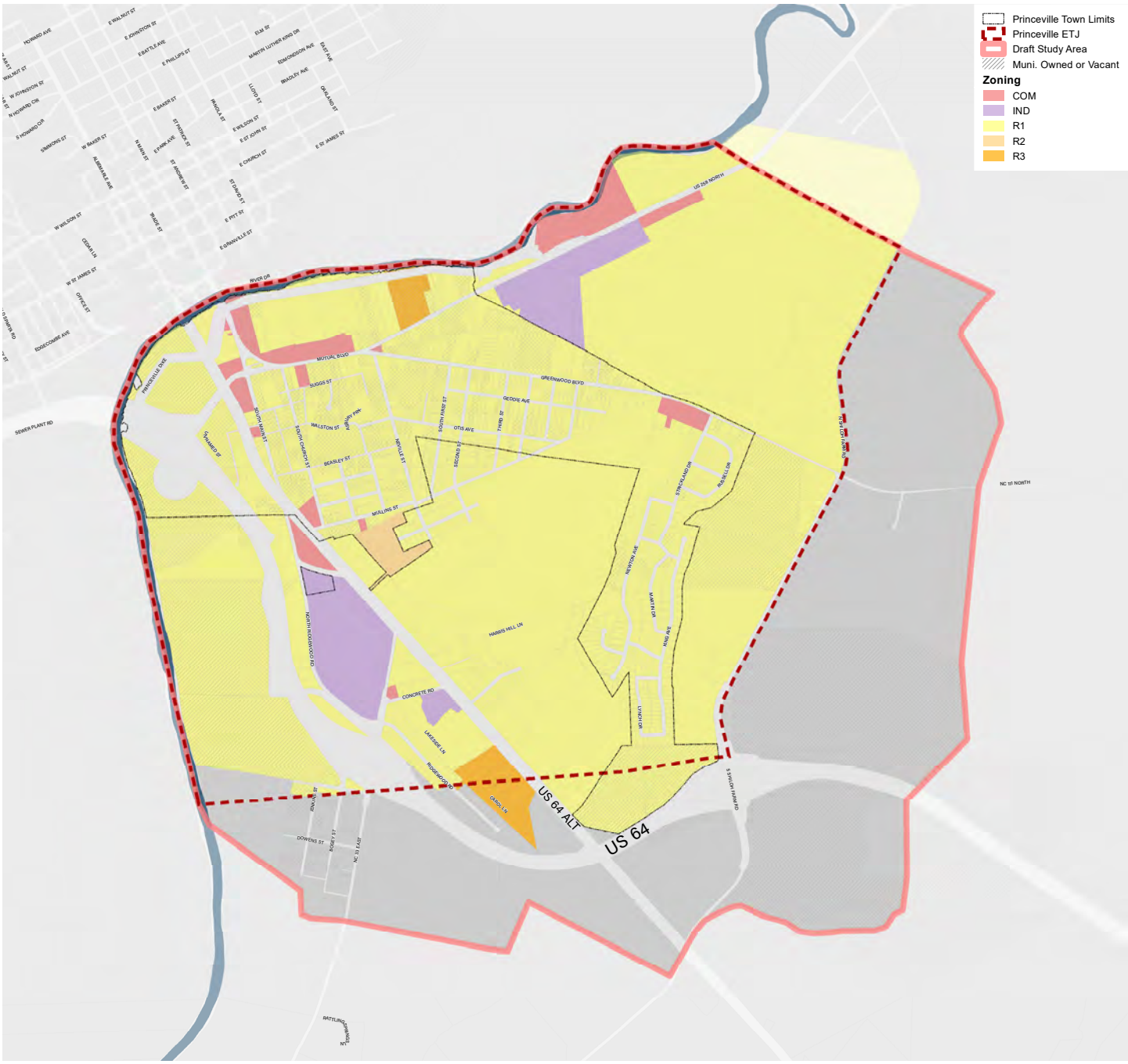
(mailto:EPHT@LISTSERV.CDC.GOV?
subject=Please%20add%20me%20to%20CDC's%20Environmental%20Public%2
serv.&body=Please%20fill%20in%20the%20information%20below:%0AName:%

ATTACHMENT 18:

Zoning

Princeville Zoning Map, Edgecombe County Parcel Maps Showing ETJ and Zoning Districts, Recovery Efforts and Study Area Map from Town's Plan, Proposed Zoning and ETJ Zoning Maps, and Proposed Changes to Zoning Ordinance

ZONING MAP

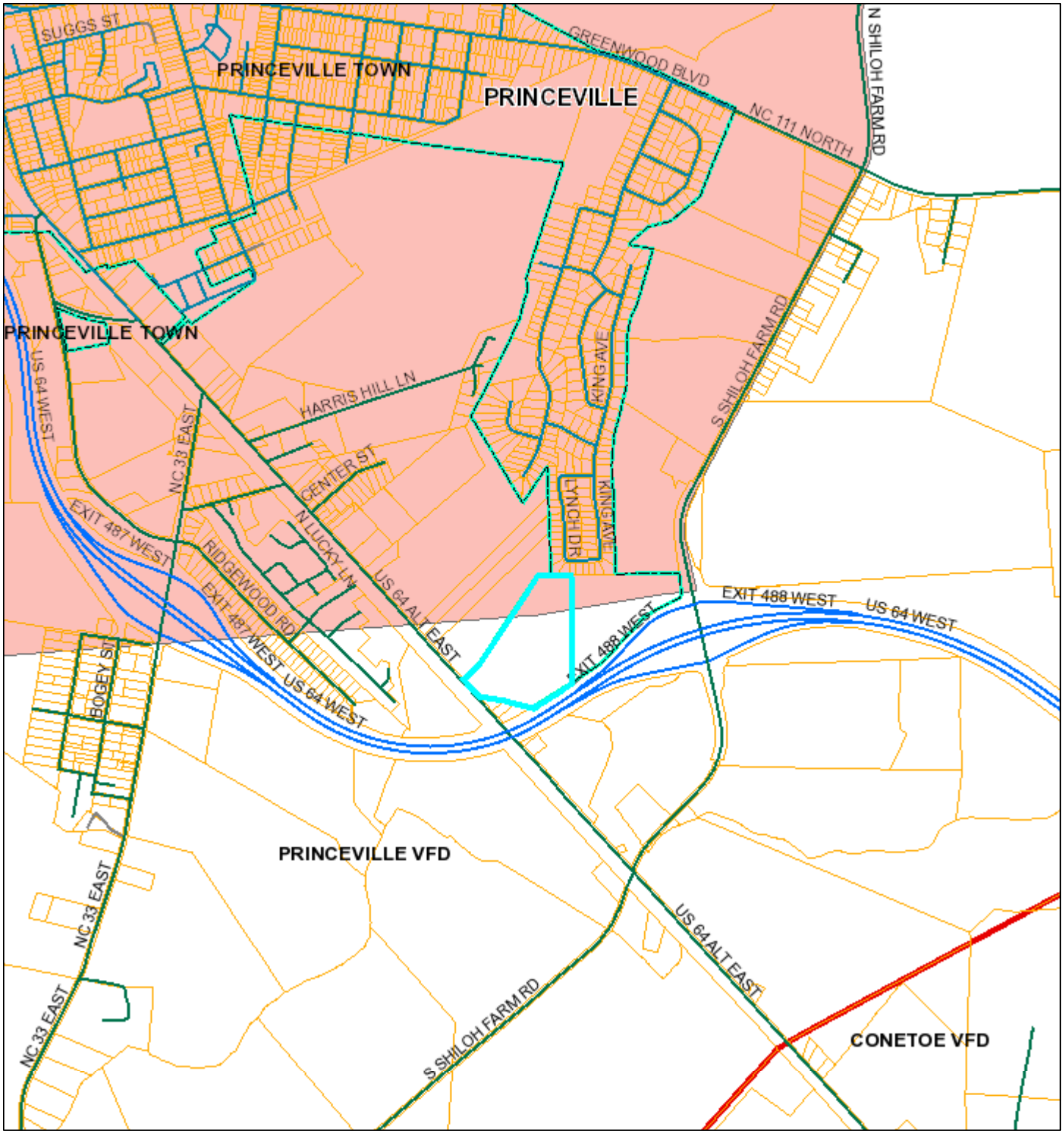


Zoning

Princeville's current zoning applies only to the land within the Town limits and the ETJ. As shown on the map, the vast majority of the land area in Princeville is zoned R1, which is intended for single-family residential, recreation, and institutional uses. There are limited pockets of the other residential districts, R2 and R3, scattered around the planning jurisdiction.

Most nonresidential uses are found along the main roads in town - Main Street and Mutual Boulevard. Commercial uses are clustered in Historic Princeville and also found along Main Street and Mutual Boulevard. There are two significant industrially-zoned areas farther away from the main part of town.

Edgecombe County - ETJ Map



PIN: 474714756400
OWNER: TOWN OF PRINCEVILLE
ADDRESS: PO BOX 1527
CITY: TARBORO
STATE: NC
ZIP: 27886
LOCATION: US 64 ALT E
PROPERTY DESCRIPTION:
TRACT 2 - DAUGHTRIDGE/LEE PLAT
ZONING:

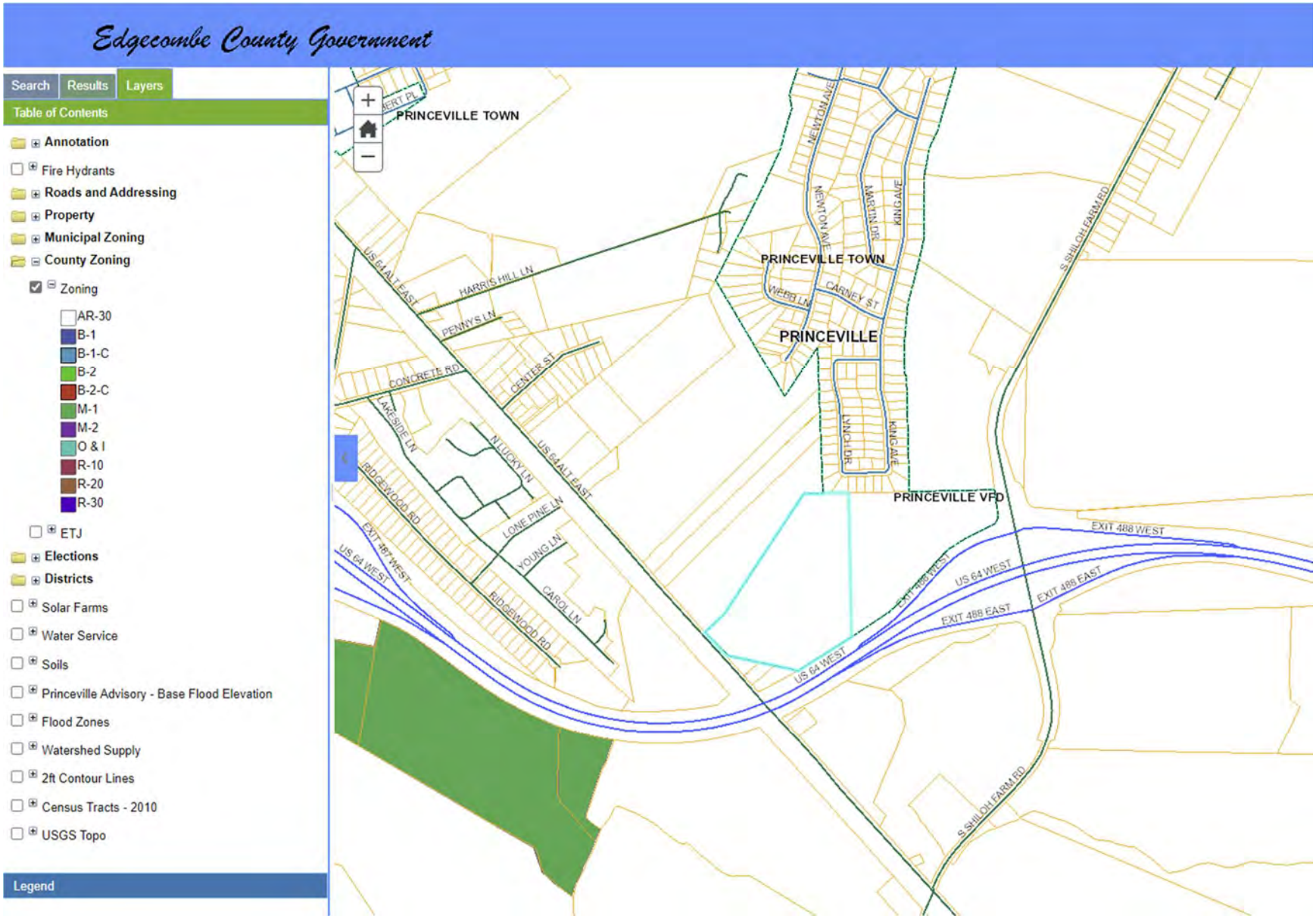
ACREAGE: 29.96
LAND VALUE: 57870
BLDG VAL: 0
NET VALUE: 57870
DEFERRED: 0
SUBDIVISION:
TAX CODES: C10
DEED LOC: 1672/0336
DEED DATE: 12/15/2017
SALE PRICE: 240000

1 inch = 1,686 feet

0 0.175 0.35 0.7 mi
0 0.275 0.55 1.1 km

December 18, 2023

Princeville 53-acre Site Redevelopment – Zoning AR-30



RECOVERY EFFORTS

In addition to the recent planning efforts, thirteen on-going recovery projects have been in process since 2017. Due to the active nature of these projects, additional updates will have occurred by the time this plan is adopted.

01 **Stormwater Project –** The Wooten Company and Barnhill Contracting is constructing repairs to the stormwater system on a number of streets. Repairs to infrastructure along Snowden Street, Walston Street, Church Street, and Dancy Street are planned.

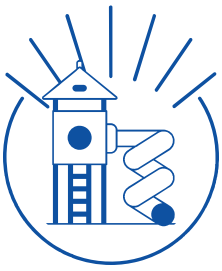
02 **Flood Gates –** The Town is currently reviewing qualifications for engineering firms to design floodgate repair project. This project will repair 4 flood gates in the community. These gates help protect the Town from flooding and release stormwater to the Tar River during normal events. CDBG-DR funds have been identified for this project.

03 **Levee Project –** The US Army Corps of Engineers (USACE) designing expansion and extension of Princeville Levee. The Army Corps of Engineers is currently surveying and design work is underway. The USACE Levee Report in 2014 recommended $21 million in improvements to the levee system. The original levee was constructed in 1967 and modified with the construction of US 65 in 1995. Recommended improvements include construction of flood gates on seven non-gated culverts, increasing elevations of NC 33 and NC 64, installation of a "shoulder levee" parallel to I-64, extension of existing levee at the at the point of its current northern-most terminus along Highway 258, to the east, and then south and non-structural measures. $39.6 million in funding has been approved for levee improvements. The Army Corps of Engineers is beginning work on the project.

04 **Town Hall –** Rescue Construction Solutions contractor is working on a design-build rehab and wet flood-proofing of the Town Hall. Project is behind schedule due to virus. Projected completion is expected in 2021.

05 **Senior Center –** The Senior Center reconstruction was designed by Oakley-Collier Architects and Burney is leading the reconstruction. Scheduled for completion early summer of 2021.

06 **Museum –** Oakley-Collier Architects designed a modern, interactive space that preserves the historic exterior. Currently held up at the State Historic Preservation Office (SHPO). A vinyl print of the Heritage Park Mural is expected to be included in the upgrades to the Museum facilities.



07 **Heritage Park –** The Town has rehabbed the pavilion and restrooms, purchased new playground equipment, and relocated the playground site. The mural on site has been digitized and put into storage awaiting the design and construction of the Farmers' Market. A walking trail is planned in the next phase.

08 **The Farmers' Market –** This project is underway, Board has approved to the construction of a building at Heritage Park. The Wooten Company is providing site design and engineering.

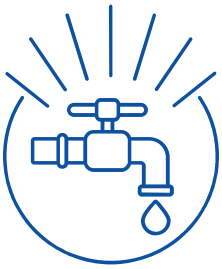
09 **53 Acres –** Acquired by the state and transfered to the Town. The Town of Princeville has secured phase 1 funding for improvements on 53 acres of land near exit 488 on US 64. The funding, which includes CDBG-DR funding of $3.2 million and $2.6 million of legislative appropriation will be directed towards infrastructure construction, partial relocation of Pioneer Court units, and fire department relocation.

10 **88 Acres –** Acquired by the Town using a legislative appropriation from 2019. The land is located between Southern Terrace and Shiloh Farm Road and has access on both NC 111 (Greenwood Boulevard) and Shiloh Farm Road. Stewart Inc is conducting land use planning for this area as part of the Comprehensive Plan.

11 **Elevation of Structures –** Wood Engineering is finalizing the feasibility study for the elevation of residential structures, FEMA/NCEM project. 75 residential structures are being studied for potential elevation. That feasibility study was started in June of 2019. The report is being finalized and will be sent to NC Emergency Management. Officials are still coordinating with home owners and decisions between no action, elevation and acquisition are still being made.

12 **Floodprint Project –** NCSU/Coastal Dynamics Design Lab, the Conservation Trust for NC, and The Conservation Fund-NC have partnered to develop a blueprint for resilient redevelopment of the Town of Princeville. CTNC successfully authored a National Fish and Wildlife grant for a phase-I project related to the plan. They recently worked with Edgecombe County Public Schools to install a rain garden with water-absorbing landscaping around the Princeville Elementary School and an educational trail connecting to the museum.

13 **Water System Upgrade –** County led water system upgrade (District 6). The Wooten Company has designed improvements to water and wastewater systems.



STUDY AREA

STUDY AREA

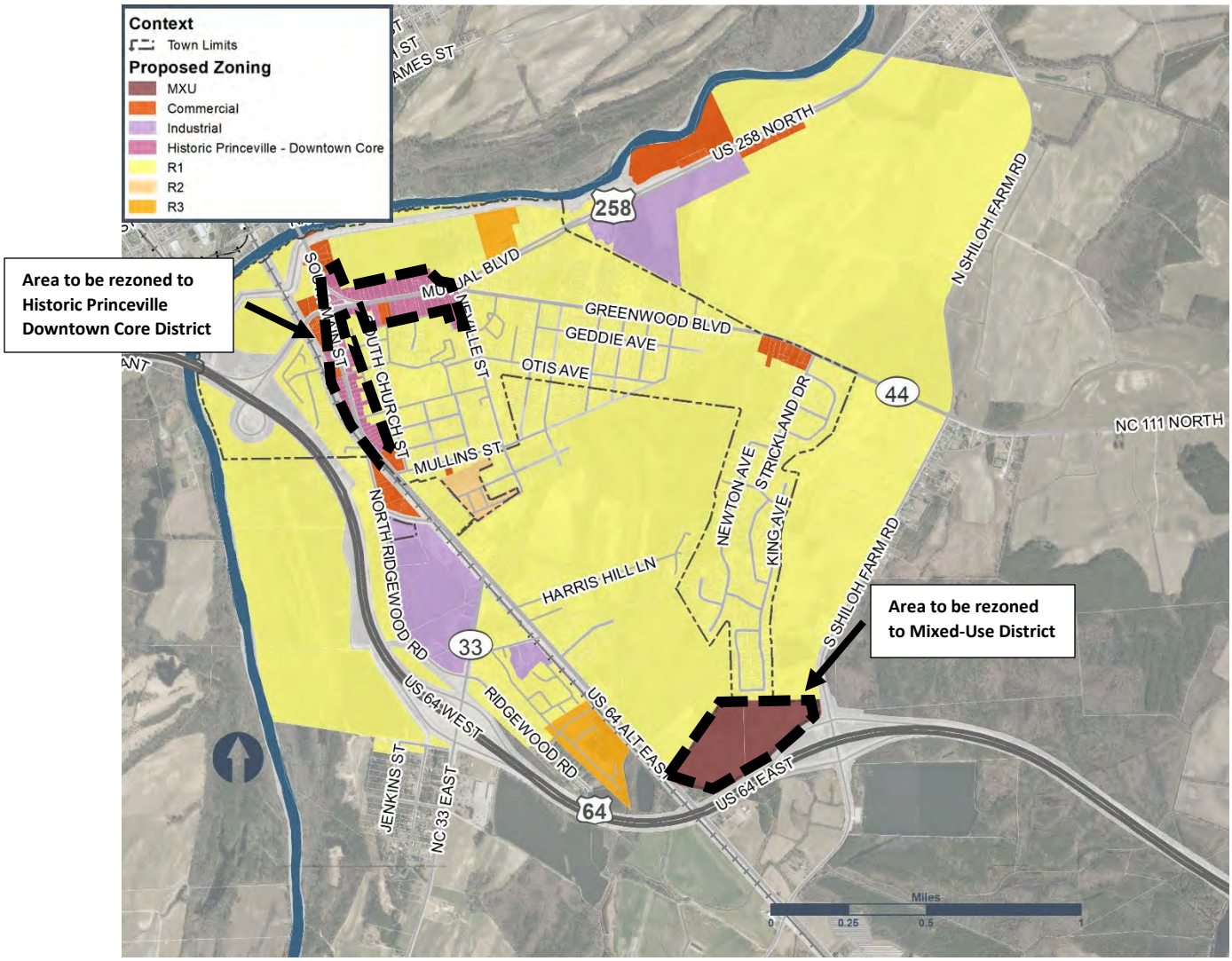
The study area encompasses all the land within the municipal and ETJ boundaries of Princeville. It also extends to cover the 88-acre town property along Shiloh Farm Road and the 53 acre tract on the Southern side of Highway 64 that includes the mobile home park for a total of 4,004 acres.

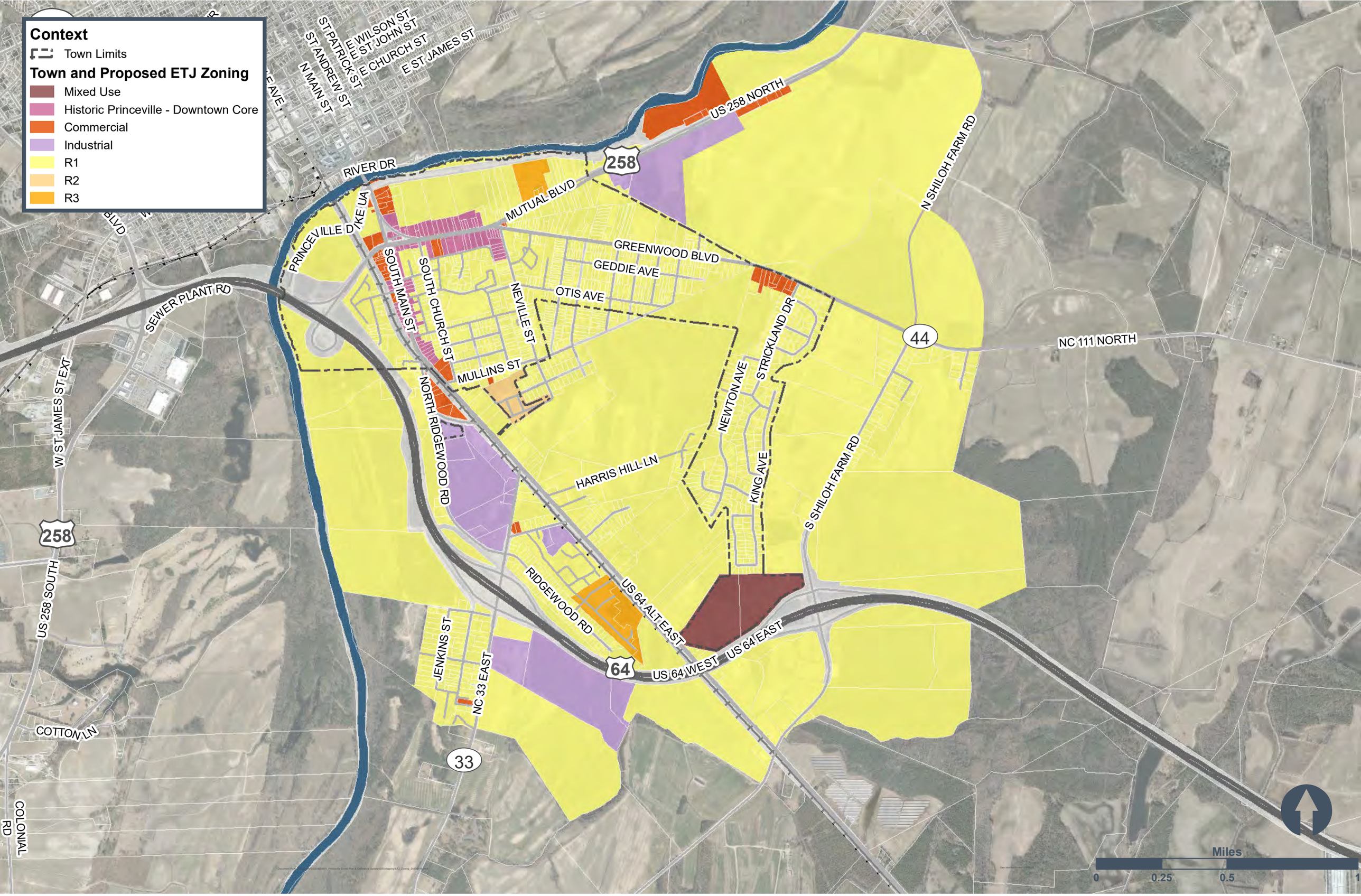
Princeville was famously founded at Freedom Hill, a site located just south over the Tar River from Tarboro. The Tar River itself forms the west and north boundaries of the Study Area. Due to the proximity of the river and the Town's low elevation, there is a levee system with flood gates between the community and the river. Two US Highways pass through the study area: US Highway 64, which leads to Rocky Mount and Raleigh to the west and to the Outer Banks to east; and US Highway 258, which runs north-south, ending in Jacksonville, NC, and Hampton, VA. Main Street connects Princeville and Tarboro, with North Main and South Main starting at the river, the local rail line parallels closely with Main Street in Princeville until Ridgewood Road before picking up with Albemarle Avenue in Tarboro. Main Street also functions as the US 64 Alternate, having historically been the route before a bypass was constructed around both towns.

More details on the study area can be found in the maps in the ***"Appendix" on page 59***.

Note: All demographics in this chapter refer to the entire study area unless stated otherwise.

Proposed Zoning Map





Town Zoning with Proposed ETJ Expansion Zoning

STEWART
STRONGER BY DESIGN

Proposed Changes to Zoning Ordinance

GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 1977

Chapter 688

Senate Bill 855

An act to revise and consolidate the Charter of the Town of Princeville and to repeal prior local acts.

THE CHARTER OF THE TOWN OF PRINCEVILLE

Section

Article I. Incorporation, Corporate Powers and Boundaries

1.1 Incorporation
1.2 Powers
1.3 Corporate limits
1.4 - 1.10 (Reserved)

Article II. Mayor and Board of Commissioners

2.1 Governing body
2.2 Board of commissioners; composition; terms of office
2.3 Selection of the mayor; term of office; duties
2.4 Mayor pro tempore
2.5 Meetings of the board
2.6 Ordinances and resolutions
2.7 Voting requirements; quorum
2.8 Qualifications for office; vacancies; compensation
2.9 - 2.15 (Reserved)

Article III. Elections

3.1 Regular municipal elections; conduct and method of election
3.2 Election of the board of commissioners
3.3 Electoral districts; district boundaries
3.4 - 3.10 (Reserved)

Article IV. Organization and Administration

4.1 Form of government
4.2 Town manager
4.3 Town attorney
4.4 Town clerk
4.5 Town finance officer
4.6 Town tax collector
4.7 Consolidation of functions
4.8 Other administrative officers and employees
4.9 - 4.15 (Reserved)

Article V. Special Provisions

5.1 Street improvements; assessment of costs
5.2 When petition unnecessary
5.3 Street improvement defined
5.4 Sidewalks; assessment of costs
5.5 Assessment procedure
5.6 Effect of assessments
5.7 - 5.15 (Reserved)

2. Authority to conduct annexations according to general statutory standards
3. [Purpose]
4. [Acts not affected by charter]
5. [Acts repealed]
6. [Rights and interests not affected by charter]
7. [Laws not revived]
8. [Continuation of ordinances, resolutions, actions and proceedings]
9. [Severability of provisions]
10. [References to General Statutes]
11. [Conflicting laws repealed]
12. [Effective date]

Editor's note:

The town charter was adopted in Session Laws 1977, Ch. 688. Amended sections will be followed by history notes in parentheses. Provisions in brackets have been added by the editor.

ARTICLE I. INCORPORATION, CORPORATE POWERS AND BOUNDARIES

Section 1.1 Incorporation.

The Town of Princeville, North Carolina, in the County of Edgecombe, and the inhabitants thereof shall continue to be a municipal body politic and corporate, under the name and style of the "Town of Princeville," hereinafter at times referred to as the "town."

Section 1.2 Powers.

The Town of Princeville shall have and may exercise all of the powers, duties, rights, privileges and immunities, which are now, or hereafter may be, conferred, either expressly or by implication, upon the Town of Princeville specifically, or upon municipal corporations generally, by this Charter, by the state constitution, or by general or local law.

Section 1.3 Corporate limits.

The corporate limits of the Town of Princeville shall be those existing at the time of ratification of this Charter, as the same are set forth on the official map of the town, and as the same may be altered from time to time in accordance with law. An official map of the town, showing the current town boundaries, shall be maintained permanently in the office of the town clerk, and shall be available for public inspection. Immediately upon alteration of the corporate limits made pursuant to law, the appropriate changes to the official map of the town shall be made.

Section 1.4 through Section 1.10 Reserved.

ARTICLE II. MAYOR AND BOARD OF COMMISSIONERS

Section 2.1 Governing body.

The mayor and board of commissioners, elected and constituted as herein set forth, shall be the governing body of the town. On behalf of the town, and in conformity with applicable laws, the mayor and board may provide for the exercise of all municipal powers, and shall be charged with the general government of the town.

Section 2.2 Board of commissioners; composition; terms of office.

The board of commissioners shall be composed of four (4) members, each of whom shall be elected for terms of four years in the manner provided by Article III of this Charter, provided they shall serve until their successors are elected and qualified.

At the regular municipal election to be held in 2001, the two winning candidates who receive the highest number of votes shall be elected for four-year terms, while the two winning candidates who receive the next highest number of votes shall be elected for two-year terms. Beginning at the regular municipal election to be held in 2003, and every four years thereafter two members of the Board of Commissioners shall be elected to serve for four-year terms. Beginning at the regular municipal election to be held in 2005, and every four years thereafter, two members of the Board of Commissioners shall be elected to serve for four-year terms.
(Amendment enacted 4-23-2001)

Section 2.3 Selection of the mayor; term of office; duties.

The mayor shall be elected for a term of four years and shall be elected by the qualified voters of the town. The mayor shall be the official head of the town government and shall preside at all meetings of the board of commissioners. The mayor shall have the right to vote only in case of a tie, in all matters before the board. The mayor shall exercise such powers and perform such duties as presently are or hereafter may be conferred upon him by the General Statutes of North Carolina, by this Charter, and by the ordinances of the town.
(Amendment enacted 5-28-1991; Amendment enacted 9-24-2001)

Section 2.4 Mayor pro tempore.

In accordance with applicable state laws, the board of commissioners shall appoint one of its members to act as mayor pro tempore to perform the duties of the mayor in the mayor's absence or disability. The mayor pro tempore as such shall have no fixed term of office, but shall serve in this capacity at the pleasure of the remaining members of the board.

Section 2.5 Meetings of the board.

In accordance with the General Statutes, the board of commissioners shall establish a suitable time and place for its regular meetings. Special meetings may be held according to the applicable provisions of the General Statutes.

Section 2.6 Ordinances and resolutions.

The adoption, amendment, repeal, pleading, or proving of town ordinances and resolutions shall be in accordance with the applicable provisions of the general laws of North Carolina not consistent with this Charter. The ayes and noes shall be taken upon all ordinances and resolutions and entered upon the minutes of the board. The enacting clause of all town ordinances shall be: "Be it ordained by the Board of Commissioners of the Town of Princeville."

Section 2.7 Voting requirements; quorum.

Official action of the board of commissioners shall be, unless required otherwise by law, by majority vote, provided that a quorum, consisting of a majority of the actual membership of the board, is present. Vacant seats are to be subtracted from the normal board membership to determine the actual membership.

Section 2.8 Qualifications for office; vacancies; compensation.

The compensation of board members, the filling of vacancies on the board, and the qualifications of board members shall be in accordance with applicable provisions of the General Statutes.

Section 2.9 through Section 2.15 Reserved.

ARTICLE III. ELECTIONS

Section 3.1 Regular municipal elections; conduct and method of election.

Regular municipal elections shall be held in the town every four years in odd-numbered years and shall be conducted in accordance with the uniform municipal election laws of North Carolina. Members of the board of commissioners shall be elected according to the nonpartisan plurality method of elections.

Section 3.2 Election of the board of commissioners.

There shall be elected to the board of commissioners a member to represent respectively each of the electoral districts herein established. The qualified voters of each electoral district shall nominate and

elect a candidate to fill the seat apportioned to each respective district. Every person elected to the board of commissioners shall reside in the ward which he represents or seeks to represent.
(Amendment enacted 5-28-1991)

Section 3.3 Electoral districts; district boundaries.

The town shall continue to be divided into 4 single-member electoral districts, the district boundaries being drawn so that each district includes, as nearly as possible, the same number of persons residing therein.

The electoral district boundaries shall be those existing at the time of the ratification of this Charter, as the same are set forth by an official written description. The official written description of the electoral district boundaries shall be maintained permanently in the office of the town clerk, and shall be available for public inspection.

The board of commissioners is authorized, in accordance with state law, to revise from time to time the electoral district boundaries of the town. Upon alteration of the district boundaries pursuant to law, the board shall cause to be made the appropriate changes in the official written description.
(Amendment enacted 5-28-1991)

Section 3.4 through Section 3.10 Reserved.

ARTICLE IV. ORGANIZATION AND ADMINISTRATION

Section 4.1 Form of government.

The town shall operate under the council-manager form of government, in accordance with Part 2 of Article 7 of Chapter 160A of the General Statutes.

Section 4.2 Town manager.

The board of commissioners shall appoint a town manager who shall be the head of the administrative branch of town government, and who shall be responsible to the board for the proper administration of the affairs of the town. In exercising his duties as chief administrator, the manager shall have the following powers and duties:

(a) He shall appoint and suspend or remove all town employees whose appointment or removal is not otherwise provided for by law, in accordance with such general personnel rules, regulations, policies, or ordinances as the board may adopt.

(b) He shall direct and supervise the administration of all departments, offices, and agencies of the town, subject to the general direction and control of the board, except as otherwise provided by law.

(c) He shall attend all meetings of the board and recommend any measures that he deems expedient.

(d) He shall see that all laws of the state, the town charter, and the ordinances, resolutions and regulations of the board are faithfully executed within the town.

(e) He shall prepare and submit the annual budget and capital program to the town.

(f) He shall annually submit to the board and make available to the public a complete report on the finances and administrative activities of the town as of the end of the fiscal year.

(g) He shall make any other reports that the board may require concerning the operations of the town departments, offices, and agencies subject to his direction and control.

(h) He shall perform any other duties that may be required and authorized by the board.

Section 4.3 Town attorney.

The board of commissioners shall appoint a town attorney who shall be licensed to engage in the practice of law in the State of North Carolina. On request by the mayor and board, it shall be the duty of the town attorney to prosecute and defend suits against the town; to advise the mayor, board of commissioners and other town officials with respect to the affairs of the town; to draft legal documents relating to the affairs of the town; to inspect and pass upon agreements, contracts, franchises and other instruments with which the town may be concerned; to attend meetings of the board as requested by the mayor or a majority of the board; and to perform other duties as the board may direct.

Section 4.4 Town clerk.

The town manager shall appoint a town clerk to keep a journal of the proceedings of the board, to maintain in a safe place all records and documents pertaining to the affairs of the town, and to perform such other duties as may be required by law or as the board of commissioners may direct.

Section 4.5 Town finance officer.

The town manager shall appoint a town finance officer to perform the duties of the finance officer as required by The Local Government Budget and Fiscal Control Act.

Section 4.6 Town tax collector.

The town manager shall appoint a town tax collector to collect all taxes, licenses, fees, and other moneys belonging to the town, subject to the General Statutes, the provisions of this Charter and the ordinances of the town. The town tax collector shall diligently comply with and enforce all the laws of North Carolina relating to the collection of taxes by municipalities.

Section 4.7 Consolidation of functions.

The board of commissioners may consolidate any two or more positions of town manager, town clerk, town tax collector, and town finance officer, or may assign the functions of any one or more of these positions to the holder or holders of any other of these positions, subject to the Local Government Budget and Fiscal Control Act.

Section 4.8 Other administrative officers and employees.

Consistent with applicable state laws, the board of commissioners may establish other positions, provide for the appointment of other administrative officers and employees, and generally organize the town government in order to promote the orderly and efficient administration of the affairs of the town.

Section 4.9 through Section 4.15 Reserved.

ARTICLE V. SPECIAL PROVISIONS

Section 5.1 Street improvements; assessment of costs.

In addition to any authority which is now or may hereafter be granted by general law to the town for making street improvements, the board of commissioners is hereby authorized to make street improvements and to assess the cost thereof against abutting property owners in accordance with the provisions of Sections 5.1 through 5.6 herein.

Section 5.2 When petition unnecessary.

The board of commissioners may order street improvements and assess the cost thereof against the abutting property owners, exclusive of the costs incurred at street intersections, according to one or more of the assessment bases set forth in Article 10 of Chapter 160A of the North Carolina General Statutes without the necessity of a petition, upon the finding by the board as a fact:

That the street improvement project does not exceed 1,200 linear feet, and

That such street or part thereof is unsafe for vehicular traffic, and it is in the public interest to make such improvement, or

That it is in the public interest to connect two streets, or portions of a street already improved, or

That it is in the public interest to widen a street, or part thereof, which is already improved, provided, that assessments for widening any street or portion of street without a petition shall be limited to the cost of widening and otherwise improving such street in accordance with the street classification and improvement standards established by the town's thoroughfare or major street plan for the particular street or part thereof to be widened and improved under the authority granted by this article.

Section 5.3 Street improvement defined.

For the purposes of this article, the term "street improvement" shall include grading, regrading, surfacing, resurfacing, widening, paving, repaving, the acquisition of right-of-way, and the construction or reconstruction of curbs, gutters and street drainage facilities.

Section 5.4 Sidewalks; assessment of costs.

In addition to any authority which is now or may hereafter be granted by general law to the town for making sidewalk improvements, the board of commissioners is hereby authorized without the necessity of a petition, to make or to order to be made sidewalk improvements or repairs according to standards and specifications of the town, and to assess the total cost thereof against abutting property owners, according to one or more of the assessment bases set forth in Article 10 of Chapter 160A of the North Carolina General Statutes; provided, however, that regardless of the assessment basis or bases employed, the board of commissioners may order the cost of sidewalk improvements made only on one side of a street to be assessed against property owners abutting both sides of such street.

Section 5.5 Assessment procedure.

In ordering street and sidewalk improvements without a petition and assessing the cost thereof under authority of this article, the board of commissioners shall comply with the procedure provided by Article

10, Chapter 160A of the General Statutes, except those provisions relating to the petition of property owners and the sufficiency thereof.

Section 5.6 Effect of assessments.

The effect of the act of levying assessments under the authority of this article shall for all purposes be the same as if the assessments were levied under authority of Article 10 of Chapter 160A of the General Statutes.

Section 5.7 through Section 5.15 Reserved.

Editor's note:

The foregoing Charter was adopted as Section 1, Chapter 688 of the Session Laws of 1977. Sections 2 through 11 of this act are reprinted below.

Section 2. Authority to conduct annexations according to general statutory standards.

As provided herein, the Town of Princeville shall hereafter be authorized to extend its corporate limits by the procedure authorized to cities of less than 5,000 population in G.S. § 160A-31. To this end, the provisions are hereby amended by inserting in the second line thereof, immediately after the words, "the towns of," the word, "Princeville."

Editor's note:

G.S. § 160A-44 was repealed by Session Laws 1983, c. 636.

Section 3.

The purpose of this act is to revise the charter of the Town of Princeville and to consolidate herein certain acts concerning the property, affairs, and government of the town. It is intended to continue without interruption those provisions of prior acts which are consolidated into this Act, so that all rights and liabilities that have accrued are preserved and may be enforced.

Section 4.

This act shall not be denied to repeal, modify, or in any manner affect any of the following acts, portions of acts, or amendments thereto, whether or not such acts, portions of acts, or amendments are expressly set forth herein.

(a) Any acts concerning the property, affairs, or government of public schools in the Town of Princeville.

(b) Any acts validating, confirming, approving, or legalizing official proceedings, actions, contracts, or obligations of any kind.

Section 5.

The following acts or portions of acts, having served the purposes for which they were enacted, or having been consolidated into this act are hereby repealed:

Chapter 29, Private Laws of 1885

Chapter 418, Private Laws of 1905

Chapter 218, Private Laws of 1923

Chapter 133, Public-Local Laws of 1937

Chapter 355, Session Laws of 1955

Chapter 596, Session Laws of 1959

Chapter 795, Session Laws of 1963

Section 6.

No provision of this act is intended, nor shall be construed, to affect in any way any rights or interests (whether public or private):

(a) Now vested or accrued, in whole or in part, the validity of which might be sustained or preserved by reference to any provisions of law repealed by this act.

(b) Derived from, or which might be sustained or preserved in reliance upon, action heretofore taken pursuant to or within the scope of any provisions of law repealed by this act.

Section 7.

No law heretofore repealed expressly or by implication, and no law granting authority which has been exhausted, shall be revived by:

(a) The repeal herein of any act repealing such law, or

(b) Any provision of this act that disclaims an intention to repeal or affect enumerated or designated laws.

Section 8.

(a) All existing ordinances and resolutions of the Town of Princeville and all existing rules or regulations of departments or agencies of the Town of Princeville, not inconsistent with the provisions of this act, shall continue in full force and effect until repealed, modified or amended.

(b) No action or proceeding of any nature (whether civil or criminal, judicial or administrative, or otherwise) pending at the effective date of this act by or against the Town of Princeville or any of its departments or agencies shall be abated or otherwise affected by the adoption of this act.

Section 9.

If any of this act or the application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of this act which can be given effect without the invalid provision or application, and to this end the provisions of this act are declared to be severable.

Section 10.

Whenever a reference is made in this act to a particular provision of the General Statutes, and such provision is later amended, repealed or superseded, the reference shall be deemed amended to refer to the amended General Statute, or to the General Statute which most clearly corresponds to the statutory provision which is repealed or superseded.

Section 11.

All laws and clauses of laws in conflict with the provisions of this act are hereby repealed.

Section 12.

This act shall become effective upon its ratification.

In the General Assembly read three times and ratified, this the 22nd day of June, 1977.

James C. Green
President of the Senate

Carl J. Stewart, Jr.
Speaker of the House of Representatives

PRINCEVILLE, NORTH CAROLINA
CODE OF ORDINANCES
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§ 10.01 TITLE OF CODE.

This codification of ordinances by and for the Town of Princeville shall be designated as the *Code of Princeville, North Carolina* and may be so cited.
(1999 Code, § 10.01)

§ 10.02 INTERPRETATION.

Unless otherwise provided herein, or by law or implication required, the same rules of construction, definition, and application shall govern the interpretation of this code as those governing the interpretation of state law.
(1999 Code, § 10.02)

§ 10.03 APPLICATION TO FUTURE ORDINANCES.

All provisions of Title I compatible with future legislation shall apply to ordinances hereafter adopted amending or supplementing this code unless otherwise specifically provided.
(1999 Code, § 10.03)

§ 10.04 CAPTIONS.

Headings and captions used in this code other than the title, chapter, and section numbers are employed for reference purposes only and shall not be deemed a part of the text of any section.
(1999 Code, § 10.04)

§ 10.05 DEFINITIONS.

(A) *General rule.* Words and phrases shall be taken in their plain, or ordinary and usual sense. However, technical words and phrases having a peculiar and appropriate meaning in law shall be understood according to their technical import.

(B) *Definitions.* For the purpose of this code, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

CHARTER. The Charter of the Town of Princeville, North Carolina.

CODE, THIS CODE, or ***THIS CODE OF ORDINANCES.*** This municipal code as modified by amendment, revision, and adoption of new titles, chapters, or sections.

COMPUTATION OF TIME. The time within which an act is to be done shall be computed by excluding the first and the last day; and if the last day is Saturday, Sunday, or a legal holiday, that day shall be excluded.

BOARD OF COMMISSIONERS or ***BOARD.*** With the Mayor, the governing body of the Town of Princeville, North Carolina.

COUNTY. Edgecombe County, North Carolina.

G.S. or ***GENERAL STATUTES.*** The latest edition of the ***GENERAL STATUTES*** of North Carolina, as amended.

GENDER. Words importing the masculine gender shall include the feminine and neuter.

GOVERNOR. The Governor of North Carolina.

JOINT AUTHORITY. All words giving a joint authority to three or more persons or officers shall be construed as giving the authority to a majority of such persons or officers.

MAY. The act referred to is permissive.

MONTH. A calendar month.

NUMBER. Words used in the singular include the plural, and the plural includes the singular number.

OATH. An affirmation in all cases in which, by law, an affirmation may be substituted for an oath, and in those cases the words ***SWEAR*** and ***SWORN*** shall be equivalent to the words ***AFFIRM*** and ***AFFIRMED.***

OFFICER, OFFICE, EMPLOYEE, COMMISSION, or ***DEPARTMENT.*** An officer, office, employee, commission, or department of this municipality unless the context clearly requires otherwise.

OFFICIAL TIME STANDARD. Whenever certain hours are named in this code, they shall mean standard time or daylight saving time as may be in current use in this town.

OWNER. Applied to any property, shall include any part owner, joint owner, tenant in common, joint tenant, or tenant by the entirety, of the whole or a part of the property.

PERSON. Extends to and includes person, persons, firm, corporation, copartnership, trustee, lessee, or receiver. Whenever used in any clause prescribing and imposing a penalty, the terms ***PERSON*** or ***WHOEVER*** as applied to any unincorporated entity shall mean the partners or members thereof, and as applied to corporations, the officers or agents thereof.

PERSONAL PROPERTY. Every species of property except real property.

PRECEDING or ***FOLLOWING.*** Next before or next after, respectively.

PROPERTY. Includes real and personal property.

REAL PROPERTY. Includes lands, tenements, and hereditaments.

SHALL. The act referred to is mandatory.

SIDEWALK. Any portion of a street between the curbline and the adjacent property line intended for the use of pedestrians.

SIGNATURE or ***SUBSCRIPTION.*** Includes a mark when the person cannot write.

STATE. The State of North Carolina.

STREET. Any public way, road, highway, street, avenue, boulevard, parkway, dedicated alley, lane, viaduct, bridge, and the approaches thereto within the town and shall mean the entire width of the right-of-way between abutting property lines.

SUBCHAPTER. A division of a chapter, designated in this code by a heading in the chapter analysis and a capitalized heading in the body of the chapter, setting apart a group of sections related by the subject matter of the heading. Not all chapters have subchapters.

TENANT or ***OCCUPANT.*** When applied to a building or land, shall include any person who occupies the whole or a part of the building or land, whether alone or with others.

TENSE. Words used in the past or present tense include the future as well as the past and present.

TOWN, MUNICIPAL CORPORATION, or ***MUNICIPALITY.*** The Town of Princeville, in the County of Edgecombe, North Carolina.

WRITTEN. Any representation of words, letters or figures, whether by printing or otherwise.

YEAR. A calendar year, unless otherwise expressed.

ZONING ENFORCEMENT OFFICER. One designated by the Council.
(1999 Code, § 10.05)
Statutory reference:
Computation of time, see G.S. § 1-593

§ 10.06 RULES OF INTERPRETATION.

The construction of all ordinances of this town shall be by the following rules, unless the construction is plainly repugnant to the intent of the legislative body or of the context of the same ordinance:

(A) ***AND*** *or* ***OR***. Either conjunction shall include the other as if written “and/or,” if the sense requires it.

(B) *Acts by assistants.* When a statute or ordinance requires an act to be done which, by law, an agent or deputy as well may do as the principal, the requisition shall be satisfied by the performance of an act by an authorized agent or deputy.

(C) *Gender; singular and plural; tenses.* Words denoting the masculine gender shall be deemed to include the feminine and neuter genders; words in the singular shall include the plural and words in the plural shall include the singular; the use of a verb in the present tense shall include the future, if applicable.

(D) *General term.* A general term following specific enumeration of terms is not to be limited to the class enumerated unless expressly so limited.
(1999 Code, § 10.06)

§ 10.07 SEVERABILITY.

If any provision of this code as now or later amended or its application to any person or circumstance is held invalid, the invalidity does not affect other provisions that can be given effect without the invalid provision or application.
(1999 Code, § 10.07)

§ 10.08 REFERENCE TO OTHER SECTIONS.

Whenever in one section reference is made to another section hereof, that reference shall extend and apply to the section referred to as subsequently amended, revised, recodified, or renumbered unless the subject matter is changed or materially altered by the amendment or revision.
(1999 Code, § 10.08)

§ 10.09 REFERENCE TO OFFICES.

Reference to a public office or officer shall be deemed to apply to any office, officer, or employee of this town exercising the powers, duties, or functions contemplated in the provision, irrespective of any transfer of functions or change in the official title of the functionary.
(1999 Code, § 10.09)

§ 10.10 ERRORS AND OMISSIONS.

(A) If a manifest error is discovered, consisting of the misspelling of any words; the omission of any word or words necessary to express the intention of the provisions affected; the use of a word or words to which no meaning can be attached; or the use of a word or words when another word or words was clearly intended to express the intent, that spelling shall be corrected and the word or words supplied, omitted, or substituted as will conform with the manifest intention, and the provisions shall have the same effect as though the correct words were contained in the text as originally published.

(B) No alteration shall be made or permitted if any question exists regarding the nature or extent of the error.
(1999 Code, § 10.10)

§ 10.11 OFFICIAL TIME.

The official time, as established by applicable state and federal laws, shall be the official time within this town for the transaction of all municipal business.
(1999 Code, § 10.11)

§ 10.12 REASONABLE TIME; COMPUTING TIME.

(A) In all cases where an ordinance requires an act to be done in a reasonable time or requires reasonable notice to be given, reasonable time or notice shall be deemed to mean the time which is necessary for a prompt performance of the act or the giving of the notice.

(B) The time within which an act is to be done, as herein provided, shall be computed by excluding the first day and including the last. If the last day be Sunday, it shall be excluded.
(1999 Code, § 10.12)

§ 10.13 ORDINANCES REPEALED.

(A) This code, from and after its effective date, shall contain all of the provisions of a general nature pertaining to the subjects herein enumerated and embraced.

(B) All prior ordinances pertaining to the subjects treated by this code shall be deemed repealed from and after the effective date of this code.
(1999 Code, § 10.13)

§ 10.14 ORDINANCES UNAFFECTED.

(A) All ordinances of a temporary or special nature and all other ordinances pertaining to subjects not embraced in this code shall remain in full force and effect unless herein repealed expressly or by necessary implication.

(B) Nothing in this code or the ordinance adopting this code shall be construed to repeal or otherwise affect the validity of any of the following:

(1) Any offense or act committed or done or any penalty or forfeiture incurred or any contract or right established or accruing before the effective date of this code;

(2) Any ordinance or resolution promising or guaranteeing the payment of money for the town or authorizing the issuance of any bonds of the town or any evidence of the town's indebtedness;

(3) Any contract or obligation assumed by the town;

(4) Any ordinance fixing the salary of any town officer or employee;

(5) Any right or franchise granted by the town;

(6) Any ordinance dedicating, naming, establishing, locating, relocating, opening, widening, paving, and the like, any street or public way in the town;

(7) Any appropriation ordinance;

(8) Any ordinance which, by its own terms, is effective for a stated or limited term;

(9) Any ordinance providing for local improvements and assessing taxes therefor;

(10) Any zoning ordinance or zoning map amendment;

(11) Any ordinance dedicating or accepting any subdivision plat;

(12) Any ordinance describing or altering the boundaries of the town;

(13) The administrative ordinances or resolutions of the town not in conflict or inconsistent with the provisions of this code;

(14) Any ordinance levying or imposing taxes not included herein;

(15) Any ordinance establishing or prescribing street grades in the town; and/or

(16) Any personnel ordinance.

(C) Nor shall any ordinance be construed to revive any ordinance or part thereof that has been repealed by a subsequent ordinance which is repealed by this chapter; and all ordinances are hereby recognized as continuing in full force and effect to the same extent as if set out at length herein. (1999 Code, § 10.14)

Statutory reference:

Statutes not repealed by General Statutes, see G.S. § 164-7

§ 10.15 EFFECTIVE DATE OF ORDINANCES.

All ordinances passed by the legislative body requiring publication shall take effect from and after the due publication thereof, unless otherwise expressly provided. Ordinances not requiring publication shall take effect from their passage, unless otherwise expressly provided.
(1999 Code, § 10.15)

§ 10.16 REPEAL OR MODIFICATION OF ORDINANCES.

(A) Whenever any ordinance or part of an ordinance shall be repealed or modified by a subsequent ordinance, the ordinance or part of an ordinance thus repealed or modified shall continue in force until the due publication of the ordinance repealing or modifying it when publication is required to give effect thereto, unless otherwise expressly provided.

(B) No suit, proceedings, right, fine, forfeiture, or penalty instituted, created, given, secured, or accrued under any ordinance previous to its repeal shall in any way be affected, released, or discharged, but may be prosecuted, enjoyed, and recovered as fully as if the ordinance had continued in forceunless it is otherwise expressly provided.

(C) When any ordinance repealing a former ordinance, clause, or provision shall be itself repealed, the repeal shall not be construed to revive the former ordinance, clause, or provision, unless it is expressly provided.
(1999 Code, § 10.16)

§ 10.17 ORDINANCES WHICH AMEND CODE; EFFECT OF NEW ORDINANCES.

(A) All ordinances passed subsequent to this code which amend, repeal, or in any way affect this code may be numbered in accordance with the numbering system hereof and printed for inclusion herein. When subsequent ordinances repeal any chapter, section, or subsection, or any portion thereof, the repealed portions may be excluded from this code by omission from reprinted pages. The subsequent ordinances as numbered and printed, or omitted in the case of repeal, shall be prima facie evidence that the subsequent ordinances numbered or omitted are readopted as a new code by the town.

(B) Amendments to any of the provisions of the code shall be made by amending provisions by specific reference to the section number of this code in language substantially similar to the following: "Section_____of the Code of Ordinances, Town of Princeville, North Carolina, is hereby amended as follows. " The new provisions shall then be set out in full as desired.

(C) If a new section not heretofore existing in the code is to be added, language substantially similar to the following shall be used: "The Code of Ordinances, Town of Princeville, North Carolina, is hereby

amended by adding a section, to be numbered_____, which section shall read as follows:... " The new section shall then be set out in full as desired.

(D) All sections, subchapters, chapters, or provisions desired to be repealed must be specifically repealed by section, subchapter, or chapter number, as the case may be.
(1999 Code, § 10.17)

§ 10.18 SECTION HISTORIES; STATUTORY REFERENCES.

(A) As histories for the code sections, the specific number and passage date of the original ordinance and the amending ordinances, if any, are listed following the text of the code section. *Example:* (Ord. 10, passed 5-13-1960; Ord. 15, passed 1-1-1970; Ord. 20, passed 1-1-1980; Ord. 25, passed 1-1-1985)

(B) (1) A statutory cite included in the history indicates that the text of the section reads substantially the same as the statute. *Example:* (G.S. § 160A-11) (Ord. 10, passed 1-17-1980; Ord. 20, passed 1-1-1985)

(2) A statutory cite set forth as a "statutory reference" following the text of the section indicates that the reader should refer to that statute for further information. *Example:*

§ 39.01 PUBLIC RECORDS AVAILABLE.

This municipality shall make available to any person for inspection or copying all public records, unless otherwise exempted by state law.
Statutory reference:
Inspection of public records, see G.S. §§ 132-1 et seq.

(C) (1) If a section of this code is derived from the prior code of ordinances of the town, the prior code section number shall be indicated in the history by "(1999 Code, §)."

(2) The history notes following sections and the references scattered throughout the code are not part of the code, but are merely for the benefit for the user of the code.
(1999 Code, § 10.18)

§ 10.99 GENERAL PENALTY.

Any person, firm, or corporation violating any of the provisions of any section or division of this code of ordinances for which no other penalty is provided, or failing or neglecting or refusing to comply with same, shall, upon conviction, be guilty of a Class 3 misdemeanor and subject to a fine not to exceed

$50 or imprisonment not to exceed 30 days, and each day that any of the provisions of this code of ordinances are violated shall constitute a separate offense.
(G.S. § 14-4(a))

Statutory reference:

Enforcement of ordinances, see G.S. § 160A-175

TITLE III: ADMINISTRATION

Chapter

30. BOARD OF COMMISSIONERS

31. TOWN OFFICIALS AND EMPLOYEES

32. DEPARTMENTS

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CHAPTER 30: BOARD OF COMMISSIONERS

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GENERAL PROVISIONS

§ 30.01 QUALIFICATIONS FOR OFFICE.

Upon the motion of any member, the Board of Commissioners shall determine the qualifications of any member. An office may be declared vacant by majority vote of the Board membership if the member fails to meet any of the statutory or constitutional requirements of office.
(1999 Code, § 30.01)
Statutory reference:
Qualifications for elective office, see G.S. § 160A-59
Vacancies, see G.S. § 160A-63

MEETINGS

§ 30.15 REGULAR MEETINGS.

The Board shall hold a regular meeting on the fourth Monday of each month, unless that day is a legal holiday, in which case the meeting shall be held on the next day or at some other date to be determined by a vote of the Board of Commissioners. The meeting shall be held at the town hall and shall begin at 7:00 p.m.
(1999 Code, § 30.15)
Charter-reference:
Meetings of the Board, see Charter, Section 2.5
Statutory reference:
Regular meetings, see G.S. § 160A-71

§ 30.16 SPECIAL MEETINGS.

(A) The Mayor, the Mayor Pro Tempore, or any two members of the Board of Commissioners may at any time call a special Board meeting by signing a written notice stating the time and place of the meeting and the subjects to be considered. The notice shall be delivered to the Mayor and each Board member or left at his or her usual dwelling place at least six hours before the meeting. Special meetings may be held at any time when the Mayor and all members of the Board are present and consent thereto, or when those not present have signed a written waiver of notice. Only those items ofbusiness specified in the notice may be transacted at a special meeting, unless all members are present or have signed a written waiver of notice.

(B) The public shall also be notified of any special meeting by giving written notification to the media of the time and place of the meeting and the subjects to be considered at least six hours prior to the meeting.
(1999 Code, § 30.16)
Statutory reference:
Special meetings, see G.S. § 160A-71

§ 30.17 ORGANIZATIONAL MEETINGS.

(A) At the first regular meeting in December following a general election in which Boardmembers are elected, the newly elected members shall, as the first order of business, take and subscribe the oath of office.

(B) The oath of office shall be that prescribed by Article VI, Section 7 of the North Carolina Constitution, as set forth in § 31.01 of this code.

(C) Also at the organizational meeting, the Board shall elect from its members a Mayor Pro Tempore as provided in the town Charter. The Mayor Pro Tempore shall exercise any of the powers and duties of the Mayor during the Mayor's absence or incapacitation, as provided in G.S. § 160A-70.
(1999 Code, § 30.17)
Statutory reference:
Time of municipal elections, see G.S. § 163-279

§ 30.18 ROBERT'S RULES OF ORDER.

Robert's Rules of Order shall govern all procedural matters not addressed by the provisions of this subchapter. However, no action taken by the Board of Commissioners shall be invalidated by a failure to abide by *Robert's Rules of Order*.
(1999 Code, § 30.18)

§ 30.19 AGENDA.

(A) *Preparation.* The Mayor and/or Manager shall prepare the agenda for the meeting.

(B) *Requests to be placed on agenda.* A request to have any item of business placed on the agenda must be received by the Mayor or Manager in sufficient time so that the agenda may be printed and distributed in accordance with division (E) of this section, and to this end the Board may establish an appropriate deadline to receive such requests.

(C) *Requests to address Board.* Any individual or group that wishes to address the Board shall make a request to be on the agenda to the Manager. However, the Board of Commissioners shall determine at the meeting whether the individual or group will be heard by the Board.

(D) *Contents.* The agenda shall include, for each item of business placed on it, as much background information on the subject as is available and feasible to reproduce. Whenever possible a copy of all proposed ordinances shall be attached to the agenda and distributed simultaneously.

(E) *Inspection and distribution.* Copies of the agenda and attachments shall be available for public inspection as soon as they are completed. The Manager shall mail or deliver copies of the agenda and attachments to the Board members in sufficient time to ensure that they are received prior to the meeting. Additional copies of the agenda may be available for the press and interested members of the public.

(F) *Additions.* The Board may, by majority vote of the Board membership, add an item of business that is not on the agenda. Unless otherwise specified by the Board, additions to the agenda shall be taken up at the conclusion of all other regular business.
(1999 Code, § 30.19)

§ 30.20 ORDER OF BUSINESS.

(A) Items of business shall be taken up at a meeting in the order that they appear on the agenda, except as provided in division (D) of this section.

(B) Items shall be placed on the agenda according to the order of business established by the Board of Commissioners upon recommendation of the Manager.

(C) In establishing the order of business, the Board of Commissioners may authorize broad categories of business to be included as agenda items, such as "members of the public wishing to be heard," or "matters by the Manager," or "matters by the Attorney."

(D) Items may be considered out of order by consent of all members present or by majority upon a motion.
(1999 Code, § 30.20)

§ 30.21 PRESIDING OFFICER.

(A) The Mayor shall preside at meetings of the Board of Commissioners, except as provided in division (C) of this section. A member must be recognized by the Mayor in order to address the Board.

(B) As presiding officer, the Mayor shall have the following powers, in addition to those conferred elsewhere in this title:

(1) To rule motions in or out of order, including the right to rule out of order any motion patently offered for obstructive or dilatory purposes;

(2) To determine whether a speaker has gone beyond reasonable standards of courtesy in his or her remarks and to entertain and rule upon objections from other members on this ground;

(3) To entertain and answer questions of parliamentary law or procedure, subject to being overruled by a two-thirds vote of the membership of the Board;

(4) To call a brief recess at any time; and

(5) To adjourn in the event of an emergency.

(C) If the Mayor becomes actively engaged in debate on a particular proposal, he or she may delegate the duty to preside over the debate to the Mayor Pro Tempore or to any other member of the Board who is not so engaged and who acquiesces in the delegation. The temporary chairperson may only preside over the debate and may not participate in it; however, he or she does not forfeit his right to vote on the issue by acting as temporary chairperson. The chairperson shall resume the duty to preside as soon as action upon the matter is concluded.
(1999 Code, § 30.21)

§ 30.22 QUORUM.

A quorum is necessary for the Board of Commissioners to take any official action. A member who has withdrawn from a meeting without being excused by majority vote of the remaining members present shall be counted as present for purposes of determining whether a quorum is present.
(1999 Code, § 30.22)

§ 30.23 OFFICIAL ACTION.

(A) The Board of Commissioners shall proceed by motion. A motion, when duly seconded, brings the matter before the Board for its consideration.

(B) A motion may be withdrawn by the introducer at any time prior to a vote if the member who seconded the motion concurs.

(C) Subject to § 30.26 and other provisions of law, official action of the Board shall be majority vote.
(1999 Code, § 30.23)

§ 30.24 DEBATE.

(A) Once a motion has been stated and seconded, the Mayor shall open the floor to debate upon it.

(B) The Mayor shall preside over the debate according to the following general principles.

(1) The member who makes the motion is entitled to speak first.

(2) A member who has not spoken on the issue shall be recognized before someone who has already spoken.

(3) To the extent possible, the debate shall alternate between proponents and opponents of the measure.
(1999 Code, § 30.24)

§ 30.25 VOTING.

(A) Every member must vote unless excused by the remaining members. A member who wishes to be excused from voting shall so inform the chairperson, who shall take a vote of the remaining members on the question of excusing the member making the request.

(B) Unless excused from voting by the foregoing procedure, failure to vote by a member who is physically present in the meeting room, or who has withdrawn without being excused, shall be recorded as an affirmative vote.

(C) A member may be excused from voting on a particular issue by majority vote of the remaining members present if the matter at issue involves that member's own financial interest or official conduct. A member may be allowed to withdraw from the entire remainder of a meeting by majority vote of the remaining members present for any good and sufficient reason other than the member's desire to avoid voting on matters to be considered at that meeting.

(D) A roll call vote shall be taken upon the request of any member.

(E) When this chapter specifies that action shall be taken by majority vote or fails to specify the vote required, that shall be interpreted to mean a vote of the majority of those present and not excused from voting. When a two-thirds vote is required, that shall be interpreted to mean a vote of two-thirds of those present and not excused from voting. When a vote of a certain percentage of the Board membership is required, that shall be interpreted to mean the specified percentage of all seats on the Board, excluding vacant seats.
(1999 Code, § 30.25)

§ 30.26 ADOPTION OF ORDINANCES.

(A) No ordinance nor any action having the effect of any ordinance may be finally adopted on the date on which it is introduced except by an affirmative vote equal to or greater than two-thirds of the Board membership. When an ordinance requires a public hearing, the ordinance shall be considered introduced at the meeting when the Board sets a date for the public hearing.

(B) Franchise ordinances and amendments shall not be finally adopted until passed at two regular meetings of the Board.
(1999 Code, § 30.26)

§ 30.27 EXECUTIVE SESSIONS.

The Board of Commissioners may hold executive sessions in accordance with the Open Meetings Law (G.S. §§ 143-318.9 et seq.) and other provisions of law. The Board shall commence an executive session by a majority vote to do so and shall terminate an executive session in the same manner. Minutes shall be kept of executive sessions but shall remain sealed as provided by law.
(1999 Code, § 30.27)
Statutory reference:
Executive sessions, see G.S. § 143-318.11

§ 30.28 PUBLIC HEARINGS.

(A) Public hearings required by law or deemed advisable by the Board of Commissioners shall be scheduled pursuant to a motion adopted by a majority vote setting forth the subject, date, place, and time of the hearing as well as any rules regarding the length of time of each speaker and other matters regarding the conduct of the hearing.

(B) At the appointed time the Mayor shall call the hearing to order and then preside over it. Upon the expiration of the allotted time, or when there are no individuals who wish to speak who have not done so, the Mayor shall declare the hearing ended.

(C) A quorum of the Board shall be required at all public hearings required by state law.
(1999 Code, § 30.28)

§ 30.29 MINUTES.

Minutes shall be kept of all meetings of the Board of Commissioners.

§ 30.30 CONFLICTS OF INTEREST

No member of the Board of Commissioners shall vote on any legislative decision where the outcome of the decision is likely to have a direct, substantial, and readily identifiable financial impact on the member. No member of the Board shall vote on any zoning

amendment if the landowner of the property subject to a rezoning petition or the applicant for a text amendment is a person with whom the member has a close familial, business, or other associational relationship.

No member of the Board of Commissioners shall vote on any quasi-judicial decision in a manner that would violate the applicant or affected person's right to an impartial decision maker. This includes instances in which any Commissioner has a fixed opinion prior to the hearing that is no susceptible to change, has engaged in ex-parte communications, has a close familial, business, or other associational relationship with an affected person, or has a financial interest in the outcome of the matter.

(1999 Code, § 30.29)

MOTIONS

§ 30.40 SUBSTANTIVE AND PROCEDURAL MOTIONS.

(A) (1) A ***SUBSTANTIVE MOTION*** is a motion that seeks to have the Board of Commissioners exercise any of its powers, duties, or responsibilities.

(2) A motion to amend a substantive motion is also a substantive motion.

(3) A substantive motion, other than to amend, is out of order while another substantive motion is pending.

(B) A ***PROCEDURAL MOTION*** is a motion that relates either to the manner in which the Board conducts its business in general or the manner in which the Board deals with a particular substantive issue or substantive motion that is before it.

(C) Unless otherwise specifically provided, all motions authorized by this subchapter may be amended and debated.
(1999 Code, § 30.40)

§ 30.41 MOTION TO AMEND.

(A) An amendment to a motion must be germane to the subject matter of the motion, but it may achieve the opposite effect of the motion.

(B) There may be an amendment to the motion, and an amendment to an amendment, but no further amendments.

(C) Any amendment to a proposed ordinance shall be reduced to writing upon the call of any member.
(1999 Code, § 30.41)

§ 30.42 MOTIONS TO DISPOSE OF ISSUE WITHOUT DECIDING MERITS.

(A) *Motion to defer consideration until a date certain.* This motion requires that a date be set when without further action by the Board a matter will again be placed on the agenda.

(B) *Motion to defer consideration indefinitely.* Adoption of this motion removes the issue from the Board's consideration until such time as a motion to revive consideration is adopted (see § 30.43(A)) or a new motion dealing with the same issue is introduced and seconded (see § 30.44(A)).

(C) *Motion to refer to a committee.* Unless this motion includes an instruction to report the matter back by a date certain, or unless a motion is adopted under § 30.43(A), a matter referred to a committee remains there until returned to the Board by the committee.
(1999 Code, § 30.42)

§ 30.43 MOTIONS TO REVIVE OR RECONSIDER AN ISSUE.

(A) *Motion to revive consideration of an issue.* Adoption of this motion brings an issue back before the Board of Commissioners for its consideration, regardless of whether the issue had been deferred indefinitely or to a date certain.

(B) *Motion to recall an issue from committee.* Adoption of this motion may bring a matter immediately before the Board, or the motion may direct a committee to report an issue back to the Board by a date certain.

(C) *Motion to reconsider a vote.* This motion may be made only at the meeting at which the vote in question was taken and only by a member who voted with the prevailing side. If adopted, the effect is to negate the earlier vote and then bring the matter back before the Board as if the earlier vote had never taken place.
(1999 Code, § 30.43)

§ 30.44 RECONSIDERATION OF MATTERS DISPOSED OF ON THE MERITS.

(A) *Renewal of motions.* A motion that is defeated may be renewed at any subsequent meeting unless a motion has been adopted in accordance with division (B) of this section.

(B) *Motion to prevent reconsideration for six months.* This motion is in order immediately following the defeat of a substantive motion and at no other time. It requires a two-thirds vote for adoption. A matter concerning which this motion has been adopted may be brought before the Board prior to the expiration of six months pursuant to a vote to suspend the rules. This motion does not bind a new Board.
(1999 Code, § 30.44)

§ 30.45 MOTION TO TERMINATE DEBATE.

A motion to call the previous question is a motion to cut off debate on a matter under consideration and put the matter to a vote. This motion shall be in order at any time, but unless each Board member present has had an opportunity to speak at least once on the issue, the motion requires a two-thirds vote for adoption. This motion is not debatable and may not be amended.
(1999 Code, § 30.45)

§ 30.46 MISCELLANEOUS MOTIONS.

In addition to others authorized by this subchapter, the following motions shall be in order:

(A) Divide a complex question and consider it by paragraph;

(B) Suspend the rules. This motion shall require a two-thirds vote for adoption;

(C) Take a recess; or

(D) Adjourn. This motion may not be amended.

(1999 Code, § 30.46)

CHAPTER 31: TOWN OFFICIALS AND EMPLOYEES

Section

General Provisions

31.01 Compensation; bond; oath
31.02 Position classification plan
31.03 Pay plan

Provisions Concerning Specific Officials

31.15 Town Manager
31.16 Town Clerk
31.17 Town Attorney
31.18 Finance Officer
31.19 Budget Officer

GENERAL PROVISIONS

§ 31.01 COMPENSATION; BOND; OATH.

(A) All officers and employees appointed by the Board of Commissioners shall serve at the pleasure of the Board except as otherwise provided by law, and shall receive for their services such compensation as may be established annually in the budget ordinance.

(B) The Board shall prescribe the required bond for each officer or employee that it deems necessary to be bonded, and no such officer or employee may begin the duties of his or her office until the required bond has been obtained.

(C) All elected and appointed officials shall take the following oath before beginning their duties:

"I,_____, do solemnly swear (or affirm) that I will support and maintain the Constitution and laws of the United States and the Constitution and laws of North Carolina not inconsistent therewith, and that I will faithfully discharge the duties of my office as_____, so help me God."

(D) This oath may be administered by the Mayor or by any other official authorized to administer oaths by G.S. § 11-7.1, and shall be subscribed and filed with the Town Clerk.
(1999 Code, § 31.01)

Statutory reference:

Compensation of municipal employees, see G.S. § 160A-162
Oath of municipal officers, see G.S. § 160A-61

§ 31.02 POSITION CLASSIFICATION PLAN.

(A) The Manager shall be responsible for the administration and maintenance of the position classification plan so that it will accurately reflect the duties performed by employees in the classes to which their positions are allocated. Department heads shall be responsible for bringing to the attention of the Manager the need for new positions and material changes in the nature of duties, responsibilities, working conditions, or other factors affecting the classifications of existing positions.

(B) New positions shall be established only with the approval of the Board of Commissioners after which the Town Manager shall either allocate the new position to the appropriate class within the existing classification plan or recommend to the Board that it amend the position classification plan to establish a new class to which the new position may be allocated.

(C) When the Manager finds that a substantial change has occurred in the nature or level of duties and responsibilities of an existing position, he or she shall:

(1) Direct that the existing class specification be revised;

(2) Reallocate the position to the appropriate class within the existing classification plan; or

(3) Recommend that the Board amend the position classification plan to establish a new plan to which the position may be allocated.

(D) The Board may, upon the recommendation of the Manager, add classes of positions to or delete them from the position classification plan.
(1999 Code, § 31.02)

§ 31.03 PAY PLAN.

The Manager shall be responsible for the administration and maintenance of the pay plan. The pay plan is intended to provide equitable compensation for all positions when considered in relation to each other, to general rates of pay for similar employment in the private sector and in other public jurisdictions in the area, to changes in the cost of living, to financial conditions of the town and to other

factors. To this end, the Manager shall from time to time make comparative studies of all factors affecting the level of salary ranges and shall recommend to the Board such changes in salary ranges as appear to be warranted.

(1999 Code, § 31.03)

§ 31.04 CONFLICTS OF INTEREST

No administrative staff member shall make a final decision on an administrative decision if the outcome of the decision would have a direct, substantial, readily identifiable financial impact on the staff member or if the applicant or other person subject to the decision is a person with whom the staff member has a close familial, business, or other associational relationship.

PROVISIONS CONCERNING SPECIFIC OFFICIALS

§ 31.15 TOWN MANAGER.

(A) *Appointment.* The Town Manager shall be appointed solely on the basis of his or her executive and administrative qualifications. He or she need not be a resident of the town or state at the time of his or her appointment. The Manager shall serve at the pleasure of the Board of Commissioners.

(B) *Powers and duties.* The Town Manager shall be the chief administrator of the town. The Manager shall be responsible to the Board for administering all municipal affairs placed in his or her charge by the Board, and in addition to those powers and duties assigned to him or her by the town Charter and by other provisions of law, the Manager shall:

(1) Appoint and suspend or remove all town officers and employees not elected by the people, except those whose appointment or removal is otherwise provided for by law, in accordance with such general personnel rules, regulations, policies, or ordinances as the Board may adopt;

(2) Direct and supervise the administration of all departments, offices, and agencies of the town, subject to the general direction and control of the Board, except as otherwise provided by law;

(3) Attend all meetings of the Board and recommend any measure that he or she deems expedient;

(4) See that all laws of the state, the town Charter, and the ordinances, resolutions, and regulations of the Board are faithfully executed within the town;

(5) Prepare and submit the annual budget and capital program to the Board;

(6) Submit annually to the Board and make available to the public a complete report of the finances and administrative activities of the town as of the end of the fiscal year;

(7) Make any other reports that the Board may require concerning operations of town departments, offices, and agencies subject to his or her direction and control; and

(8) Perform any other duties that may be required or authorized by the Board.
(1999 Code, § 31.15)
Charter-reference:
Town Manager, see Charter, Section 4.2
Statutory reference:
City Manager, see G.S. §§ 160A-147 et seq.

§ 31.16 TOWN CLERK.

The Town Clerk shall:

(A) Give notice of meetings of the Board of Commissioners;

(B) Keep a journal of the proceedings of the Board;

(C) Record in a book kept for the purpose all ordinances and resolutions;

(D) Be the custodian of all town records; and

(E) Perform other such duties as are prescribed by law or by the town Charter or required by the Board or by the Manager.
(1999 Code, § 31.16)
Charter-reference:
Town Clerk, see Charter, Section 4.4
Statutory reference:
City Clerk, see G.S. § 160A-171

§ 31.17 TOWN ATTORNEY.

The Board of Commissioners shall appoint a Town Attorney to serve at its pleasure and shall prescribe his or her duties and fix his or her rate of compensation.
(1999 Code, § 31.17)
Charter-reference:
Town Attorney, see Charter, Section 4.3
Statutory reference:
City Attorney, see G.S. § 160A-173

§ 31.18 FINANCE OFFICER.

(A) *Appointment.* The Town Manager shall appoint a Finance Officer.

(B) *Duties.* The duties of the Finance Officer shall be to:

(1) Keep the town's accounts in accordance with generally accepted principles of governmental accounting and the rules and regulations of the North Carolina Local Government Commission;

(2) Disburse all funds of the town in strict compliance with the Local Government Budget and Fiscal Control Act, the budget ordinance, and each project ordinance and pre-audit obligations and disbursements as required by the Local Government Budget and Fiscal Control Act;

(3) Prepare and file with the Board of Commissioners a statement of the financial condition of the town whenever requested to do so by the Board or the Manager;

(4) Receive and deposit all monies accruing to the town and supervise the receipt and deposit of money by other duly authorized officers or employees;

(5) Maintain all records concerning the town's bonded debt and other obligations, and determine the amount of money that will be required for debt service or the payment of other obligations during each fiscal year, and maintain all sinking funds;

(6) Supervise the investment of the town's idle funds; and

(7) Perform such other duties as may be assigned to him or her by law, by the Manager, the Budget Officer, the Board, or by rules and regulations of the local government commission.
(1999 Code, § 31.18)

Charter-reference:

Finance Officer, see Charter, Section 4.5

Statutory reference:

Local Finance Officer, see G.S. §§ 159-24 et seq.
Local Government Budget and Fiscal Control Act, see G.S. §§ 159-7 et seq.

§ 31.19 BUDGET OFFICER.

The Town Manager shall be the Budget Officer. The Budget Officer shall perform those duties and responsibilities assigned to him or her by the Local Government Budget and Fiscal Control Act, G.S. Chapter 159, Article III.
(1999 Code, § 31.19)

Statutory reference:

Budget Officer, see G.S. §§ 159-9 et seq.

CHAPTER 32: DEPARTMENTS

Section

32.01 Building Inspections Department
32.02 Public Works Department

Cross-reference:

Parks and Recreation Department, see §§ 96.040 through 96.043

§ 32.01 BUILDING INSPECTIONS DEPARTMENT.

There shall be a Building Inspections Department which shall have the authority and responsibility to enforce the North Carolina State Building Code. The Building Inspections Department shall have the authority and shall follow the procedures set forth inG.S. § 160D, Article 11 and Chapter 1 of the State Building Code. From time to time the Board of Commissioners may make arrangements to have the functions of the Building Inspections Department performed by other than town employees, as provided in -G.S. § 160D-1102 et seq.

(1999 Code, § 32.03)

Statutory reference:

Building inspection, see G.S. § 160D, Article 11.

§ 32.02 PUBLIC WORKS DEPARTMENT.

There shall be a Public Works Department under the supervision of a Public Works Director, who shall see that all town policies and ordinances relating to town streets, sanitation, and the water and sewer utilities are administered efficiently and effectively.

(1999 Code, § 32.04)

Statutory reference:

Municipal streets, see G.S. §§ 160A-296 et seq.
Public enterprises, see G.S. §§ 160A-311 et seq.

CHAPTER 33: CIVIL EMERGENCIES

Section

33.01 State of emergency defined
33.02 Declaration by Mayor
33.03 Contents of proclamation
33.04 Publication of proclamation
33.05 Effect of proclamation; curfew
33.06 Termination of state of emergency

33.99 Penalty

§ 33.01 STATE OF EMERGENCY DEFINED.

A state of emergency exists whenever, during times of public crisis, disaster, rioting, catastrophe, or similar public emergency, for any reason, town public safety authorities are unable to maintain public order or afford adequate protection for lives, safety, or property, or whenever the occurrence of any such condition is imminent.
(1999 Code, § 33.01)

§ 33.02 DECLARATION BY MAYOR.

(A) Whenever the Mayor finds that a state of emergency exists within all or a portion of the town, he or she shall issue a proclamation declaring such state of emergency in accordance with §§ 33.03 and 33.04.

(B) This proclamation, and any prohibitions and restrictions made effective by it, shall take effect immediately upon publication unless the proclamation sets a later time.
(1999 Code, § 33.02)

§ 33.03 CONTENTS OF PROCLAMATION.

The proclamation issued by the Mayor pursuant to this chapter shall declare to all persons that a state of emergency exists and shall set forth:

(A) The area within which the state of emergency exists, which may be the entire town or a specifically described portion of it;

(B) The date and time from which the proclamation shall be effective;

(C) Any restrictions and prohibitions that shall be effective during the state of emergency and the penalties for violations; and

(D) The date and time when the state of emergency shall terminate, unless extended or earlier terminated in accordance with § 33.06.
(1999 Code, § 33.03)

§ 33.04 PUBLICATION OF PROCLAMATION.

(A) For the purpose of making effective the prohibitions and restrictions imposed by the proclamation issued pursuant to this chapter, publication may consist of reports of the substance of the proclamation's contents, including such prohibitions and restrictions, in the mass communications media serving the affected area, or other effective methods of disseminating the necessary information quickly.

(B) Notwithstanding division (A) of this section, the full text of the proclamation shall be published as soon as practicable in one or more newspapers serving the affected area and may be posted in various places or otherwise disseminated to give the clearest notice practicable of its contents.
(1999 Code, § 33.04)

§ 33.05 EFFECT OF PROCLAMATION; CURFEW.

(A) A proclamation of a state of emergency shall activate any local civil preparedness plan and shall authorize the town to seek assistance from the county, state, and federal governments in accordance with the provisions of G.S. Chapter 166A.

(B) The Mayor is authorized in the proclamation to impose a curfew applicable to all persons within the area described in the proclamation. The curfew may be made effective during all or any portion of any day during the state of emergency. During such curfew, no person may, within the area affected by the curfew:

(1) Possess off his or her own premises, buy, sell, give away, or otherwise transfer or dispose of any explosives, firearms, ammunition, or dangerous weapon of any kind;

(2) Sell beer, wines, or intoxicating beverages of any kind or possess or consume the same off his or her own premises;

(3) Sell gasoline or any similar petroleum products except when pumped or piped directly into the tank of a motor vehicle; or

(4) Travel upon any public street or highway or upon public property unless such person is in search of medical assistance, food, or other commodity or service necessary to sustain the well being of himself or herself or his or her family or some member thereof or unless such person is engaged in the performance of some function necessary to preserve the public health or safety, such as police and fire officers, other emergency service personnel, utility employees, doctors and nurses, and the like.
(1999 Code, § 33.05) Penalty, see § 33.99

Statutory reference:

Extension of emergency restrictions into county, see G.S. § 166A-19.22
Local emergency authorizations, see G.S. Ch. 166A, part 3
Mutual aid agreements, see G.S. § 166A-19.72
State emergency management, see G.S. Ch. 166A, part 2

§ 33.06 TERMINATION OF STATE OF EMERGENCY.

A state of emergency and any restrictions imposed in connection therewith shall automatically terminate at the end of five days after it becomes effective, except that the same:

(A) May be continued for another five-day period by the publication of a new proclamation; or

(B) May be earlier terminated by the Mayor, who may issue a proclamation declaring the state of emergency to be over at any time he or she concludes that to be the case, and who shall issue such a proclamation if the Board concludes that the state of emergency has ended.
(1999 Code, § 33.06)

§ 33.99 PENALTY.

As provided in G.S. § 166A-19.31, any person who violates any provision of § 33.05(B) after a curfew has been imposed pursuant to this chapter shall be guilty of a misdemeanor punishable by a fine of not more than $50 or imprisonment for not more than 30 days, or both.
(1999 Code, § 33.99)

TITLE V: PUBLIC WORKS

Chapter

50. SOLID WASTES

CHAPTER 50: SOLID WASTES

Section

Solid Waste Control

50.01 Burning or burying solid wastes
50.02 Harmful materials not to be placed in containers
50.03 Owner to be responsible for disposal of bulky, heavy material
50.04 Solid waste management fee

Enforcement

50.15 Violations resulting from continuing conditions
50.16 Summary abatement

50.99 Penalty

SOLID WASTE CONTROL

§ 50.01 BURNING OR BURYING SOLID WASTES.

(A) No person may burn or cause to be burned any garbage for purposes of disposal, and no person may burn or cause to be burned any refuse except as specifically authorized by § 92.12.

(B) No person may bury or cause to be buried any solid waste for purposes of disposal.
(1999 Code, § 50.01) Penalty, see § 50.99

§ 50.02 HARMFUL MATERIALS NOT TO BE PLACED IN CONTAINERS.

No harmful materials such as hot ashes, charcoal, paint solvents, or other inflammable materials shall be placed in solid waste containers.
(1999 Code, § 50.02) (Mo. of 12-28-1987) Penalty, see § 50.99

§ 50.03 OWNER TO BE RESPONSIBLE FOR DISPOSAL OF BULKY, HEAVY MATERIAL.

Building materials such as brick, broken concrete, lumber and plaster, ashes, dirt, rocks, or gravel, automobile frames and parts, dead trees, and other bulky, heavy material shall be disposed of by the owner or person controlling same.
(1999 Code, § 50.03) (Mo. of 12-28-1987) Penalty, see § 50.99

§ 50.04 SOLID WASTE MANAGEMENT FEE.

A solid waste management fee shall be charged to all residents of the town and all businesses and commercial establishments of the town permitted to use roll-out containers. The fee (or fees) shall be in an amount to be determined from time to time by the Town Board and listed in the town's schedule of fees and charges.
(Ord. passed 2-23-2015)

ENFORCEMENT

§ 50.15 VIOLATIONS RESULTING FROM CONTINUING CONDITIONS.

(A) Whenever a violation of this chapter results from a continuing condition rather than a discrete event, a written notice shall be sent to the last known address of the responsible person, specifying the nature of the violation and what must be done to correct it, requiring the responsible person to correct the violation within ten calendar days after delivery of the notice, and informing the responsible person of the possible consequences of his or her failure to comply.

(B) Whenever a violation of this chapter results from a continuing condition rather than a discrete event, the penalties and remedies provided for in § 50.99 may not be invoked until after the ten-day correction period specified in this section has expired.
(1999 Code, § 50.15)

§ 50.16 SUMMARY ABATEMENT.

(A) If the Town Manager or his or her designee concludes that any condition or situation prohibited by this chapter or any other condition or situation is dangerous or prejudicial to the public health or safety, he or she may:

(1) Order appropriate town officials or employees to summarily remove, abate, or remedy everything so found and to assess the cost of this action against the respondent in accordance with divisions (B) and (C) of this section; or

(2) Order the respondent to correct the situation within a specified time period and order town officials to abate, correct, or remedy the offending condition if the respondent fails to act within the prescribed time limits.

(B) (1) The order described in division (A)(2) of this section shall inform the respondent:

(a) What condition or situation is dangerous or prejudicial to the public health or safety;

(b) That the Town Manager or his or her designee may order town officials to summarily abate, remedy, or correct the offending condition; and

(c) That the expenses incurred by the town in connection with the actions described in division (B)(1)(b) of this section, if not paid by the respondent, shall become a lien upon the land where the offending condition is located, to be collected as unpaid taxes.

(2) This order shall be sent by mail (certified, deliver to addressee only, return receipt requested) or delivered to the respondent by a town officer or employee.

(C) For the purposes of this section, the ***RESPONDENT*** is the person who is responsible for the offending condition, as well as the owner of the property where the offending condition is located, if different from the former.
(1999 Code, § 50.16) (Mo. of 3-23-1987)

§ 50.99 PENALTY.

(A) A violation of any of the provisions of this chapter shall constitute a misdemeanor punishable by a fine of not more than $50 or imprisonment for not more than 30 days, or both.

(B) A violation of any of the provisions of this chapter shall also subject the offender to a civil penalty of $25. If the offender fails to pay this penalty within 15 calendar days after being cited for a violation, the penalty may be recovered by the town in a civil action in the nature of debt.

(C) Each day that any violation continues after a person has been notified that such violation exists and that he or she is subject to the penalties specified in divisions (A) and (B) of this section shall constitute a separate offense.

(D) This chapter may also be enforced by any appropriate equitable action, including injunctions or orders of abatement.

(E) The town may enforce this chapter by any one or any combination of the foregoing remedies.
(1999 Code, § 50.99)

TITLE VII: TRAFFIC CODE

Chapter

70. GENERAL PROVISIONS

71. TRAFFIC REGULATIONS

72. PARKING REGULATIONS

73. TRAFFIC SCHEDULES

74. PARKING SCHEDULES

CHAPTER 70: GENERAL PROVISIONS

Section

General Provisions

70.01 Definitions
70.02 Funeral processions
70.03 Bicycles, toy vehicles, and the like

Registration; License Tax

70.15 Registration of resident motor vehicles; payment of license tax
70.16 Registration deadline; period of registration
70.17 Operation of a motor vehicle without registration plate unlawful

70.99 General traffic penalty

GENERAL PROVISIONS

§ 70.01 DEFINITIONS.

For the purpose of this title, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

ADMINISTRATOR. The Public Works Director or any other person designated by the Manager to perform the functions assigned by this title to the Administrator. Whenever this title authorizes or requires the ***ADMINISTRATOR*** to install a traffic-control device controlling parking or regulating the movement of traffic on, to, or from a state highway system street and the installation of such a device is in practice a function of the State Department of Transportation, the Administrator may discharge his or her responsibility by requesting the State Department of Transportation to install such device.

DRIVER. The operator of a vehicle as defined in this section. The terms ***DRIVER*** and ***OPERATOR*** and their cognates are synonymous.

HIGHWAY or ***STREET.*** The entire width between property or right-of-way lines of every way or place of whatever nature, when any part thereof is open to the use of the public as a matter of right for the purposes of vehicular traffic. The terms ***HIGHWAY*** or ***STREET*** or a combination of the two terms shall be used synonymously.

INTERSECTION. The area embraced within the prolongation of the lateral curblines or, if none, then the lateral edge of roadway lines of two or more highways which join one another at any angle whether or not one such highway crosses the other. Where a highway includes two roadways 30 feet or more apart, then every crossing of each roadway of such divided highway by an intersecting highway shall be regarded as a separate ***INTERSECTION.*** If such intersecting highway also includes two roadways 30 feet or more apart, then every crossing of two roadways of such highways shall be regarded as a separate ***INTERSECTION.***

LOCAL STREET. A street within the town that is not part of the state highway system.

MOTOR VEHICLE. Every vehicle that is self-propelled and every vehicle designed to run upon the highways that is pulled by a self-propelled vehicle. This shall not include mopeds as defined in G.S. § 20-4.01(27)d1.

OPERATOR. A person in actual physical control of a vehicle that is in motion or that has the engine running. The terms ***OPERATOR*** and ***DRIVER*** and their cognates are synonymous.

PARKING or ***STANDING.*** A vehicle is parked or is permitted to stand when it is stopped and allowed to remain in a fixed location for any duration of time, whether attended or unattended. Except where the context clearly indicates otherwise, the limitations on parking and standing in this chapter apply only to locations within a street right-of-way. In no case do these limitations apply when a vehicle is stopped to avoid conflict with other traffic or in compliance with law or the directions of a police officer or traffic-control device or as the result of an emergency or because the vehicle is disabled.

ROADWAY. That portion of a highway improved, designed, or ordinarily used for vehicular travel, exclusive of the shoulder. In the event a highway includes two or more separate roadways, the term ***ROADWAY*** shall refer to any such roadway separately but not to all such roadways collectively.

SAFETY ZONE. A traffic island or other space that is officially set aside within a highway for the exclusive use of pedestrians and that is so plainly marked or indicated by proper signs as to be plainly visible at all times while set apart as a safety zone.

STATE HIGHWAY SYSTEM. A street within the town that is part of the state highway system. Whenever this title regulates parking or the movement of traffic on, to, or from a state highway system street, then to the extent that concurrence by the State Department of Transportation is necessary by passage of a concurring ordinance or otherwise, such regulation shall not become effective until such concurrence is obtained. Streets listed in this title that are part of the state highway system are designated by an asterisk (*).

STREET. See ***HIGHWAY.***

TRAFFIC-CONTROL DEVICE. Any sign, signal, marking, or other device placed or erected pursuant to a lawfully adopted ordinance and designed to regulate, warn, guide, or control traffic.

TRAFFIC-CONTROL SIGNAL. Any device designed to regulate, guide, or control traffic through the use of alternating or flashing lights or by some other mechanical means.

VEHICLE. Every device in, upon, or by which any person or property is or may be transported or drawn upon a highway, except devices moved by human power or used exclusively upon fixed rails or tracks, provided that for the purposes of this title bicycles shall be deemed ***VEHICLES*** and every rider of a bicycle upon a highway shall be subject to the provisions of this title applicable to the driver of a vehicle except those which by their nature can have no application. This term shall not include a device which is designed for and intended to be used as a means of transportation for a person with a mobility impairment, is suitable for use both inside and outside a building, and whose maximum speed does not exceed 12 mph when the device is being operated by a person with a mobility impairment. (1999 Code, § 70.01)

Statutory reference:

Definitions relating to motor vehicles, see G.S. § 20-4.01

Department of Transportation, see G.S. §§ 136-4 et seq.

§ 70.02 FUNERAL PROCESSIONS.

(A) A funeral procession shall be identified as such in a manner determined by the town to be adequate to give notice to the other drivers of the existence of such a procession.

(B) Each driver in a funeral procession shall drive as near to the right-hand edge of the road as practicable and shall follow the vehicle ahead as closely as possible consistent with obedience to traffic-control signals and safe driving practices.

(C) No person may drive a vehicle between the vehicles constituting a funeral procession when such vehicles are in motion and are conspicuously designated as provided in division (A) of this section. (1999 Code, § 70.02) Penalty, see § 70.99

Statutory reference:

Driving on right side of highway, see G.S. § 20-146

§ 70.03 BICYCLES, TOY VEHICLES, AND THE LIKE.

(A) No person upon roller skates or riding in or by means of any coaster, toy vehicle, or similar device may go upon any roadway except while crossing a street at a crosswalk unless the street has been designated as a play street in accordance with § 71.03.

(B) No person upon roller skates or riding a bicycle, coaster, toy vehicle, or similar device may attach himself or herself or such a vehicle or device to any moving motor vehicle.

(C) No person may ride or drive a bicycle upon any sidewalk.

(D) The driver of a motorcycle or bicycle when upon the street shall not carry any other person upon the handlebars, frame, or tank of any such vehicle, nor shall any person so ride upon any such vehicle.
(1999 Code, § 70.03) Penalty, see § 70.99
Statutory reference:
Bicycles, see G.S. §§ 20-171.1, 20-171.2

REGISTRATION; LICENSE TAX

§ 70.15 REGISTRATION OF RESIDENT MOTOR VEHICLES; PAYMENT OF LICENSE TAX.

All motor vehicles that display current license plates and reside within the town for more than a total of 14 days in any calendar year shall be registered with the town in accordance with this subchapter, and the owner thereof shall pay to the town a tax of $5 for each vehicle so registered. Upon registration of a vehicle in accordance with division (A) of this section, the town shall issue to the person registering the same an appropriately numbered plate, sticker, or any other identifying device. Upon satisfactory evidence that such device has been lost or destroyed, and payment of a fee of $0.50, the town shall issue to the person who registered the vehicle a duplicate thereof.
(1999 Code, § 70.15)

§ 70.16 REGISTRATION DEADLINE; PERIOD OF REGISTRATION.

Registration under this subchapter shall be valid for the 12-month period running from January 1 to December 31. Registration shall be completed not later than February 15 of each year, or 16 days after the motor vehicle has resided in the town for 14 days, whichever is sooner.
(1999 Code, § 70.16)

§ 70.17 OPERATION OF A MOTOR VEHICLE WITHOUT REGISTRATION PLATE UNLAWFUL.

No person may operate or maintain within the town any motor vehicle required by § 70.15 to be registered with the town unless the motor vehicle displays the registration plate, sticker, or other identifying device issued in accordance with § 70.15(B).
(1999 Code, § 70.17) Penalty, see § 70.99

§ 70.99 GENERAL TRAFFIC PENALTY.

(A) Any violation of the following sections shall constitute an infraction, punishable by a fine of not more than $50: §§ 70.02, 70.03, Chapter 71, or Chapter 73, Schedule II.

(B) Any violation of the following sections shall constitute an infraction, punishable by a fine of not more than $1: § 70.16, Chapter 72, or Chapter 74.

(C) Any violation of the following sections shall subject the offender to a civil penalty as indicated:

(1) Sections 70.16, 72.02 (except 72.02(A)(2)), and 72.04: $5;

(2) Sections 72.01, 72.03, 72.05, or Chapter 74, Schedules I and II: $1; and

(3) Section 72.02(A)(2): $25.

(D) If the offender fails to pay this penalty within ten days after being cited for a violation and notified of the penalty, the town may seek to collect it in a civil action in the nature of debt.
(1999 Code, § 70.99)

Statutory reference:

Violations of motor vehicle laws, see G.S. §§ 20-176 et seq.

CHAPTER 71: TRAFFIC REGULATIONS

Section

71.01 Turning
71.02 No passing zones
71.03 Play streets
71.04 Blocking intersections and crosswalks
71.05 Speed limits

Cross-reference:

Responsibility of operator of motor vehicle or bicycle injuring animal, see § 91.17

§ 71.01 TURNING.

Whenever, pursuant to Chapter 73, Schedule II, appropriate traffic-control devices are installed that clearly indicate that right or left turns, U-turns, or all turns are prohibited or required from a particular lane of traffic, no person may drive any vehicle contrary to the directions of any traffic-control device so installed.
(1999 Code, § 71.01) Penalty, see § 70.99

§ 71.02 NO PASSING ZONES.

(A) Whenever, pursuant to division (B) of this section, appropriate traffic-control devices have been installed that clearly indicate that no passing is allowed on a portion of any street, no driver of a vehicle may overtake and pass another on any portion of a street so restricted.

(B) The Administrator may install appropriate traffic-control devices to indicate that no passing is allowed whenever and wherever he or she determines that passing would be unsafe on that portion of a street because:

(1) The street intersects with another street;

(2) The slope or grade of the street is such or the street curves to such an extent that a driver's view is obstructed within a distance of 500 feet; or

(3) Any other conditions exist making passing hazardous.

(1999 Code, § 71.02) Penalty, see § 70.99

Statutory reference:

Overtaking and passing vehicles, signs, see G.S. § 20-150

§ 71.03 PLAY STREETS.

Whenever a street or any part thereof has been designated a play street and appropriate traffic-control devices have been installed clearly giving notice of this fact, no person may drive a vehicle upon such street or part thereof unless he or she resides there or has business there, and all persons shall exercise great care at all times when driving upon any play street.

(1999 Code, § 71.03) Penalty, see § 70.99

§ 71.04 BLOCKING INTERSECTIONS AND CROSSWALKS.

No driver may enter an intersection or marked crosswalk unless there is sufficient space on the other side of the intersection or crosswalk to accommodate the vehicle he or she is operating without obstructing the passage of other vehicles or pedestrians.

(1999 Code, § 71.04) Penalty, see § 70.99

§ 71.05 SPEED LIMITS.

(A) As provided in G.S. § 20-141(b)(1), no person may drive a vehicle on a street or in a public vehicular area in excess of 35 mph unless a different speed is established by this section or pursuant to state law.

(B) Whenever a speed limit has been established and appropriate traffic-control devices have been installed in accordance with Chapter 73, Schedule II, no person may operate a vehicle on any street in excess of the posted speed.

(1999 Code, § 71.05) Penalty, see § 70.99

CHAPTER 72: PARKING REGULATIONS

Section

72.01 Manner of parking
72.02 Parking prohibited in certain locations
72.03 Parking prohibited on certain streets at certain times
72.04 Parking prohibited for certain purposes
72.05 Loading and unloading zones

§ 72.01 MANNER OF PARKING.

(A) Except as otherwise provided in this chapter, no person may park a vehicle or permit it to stand in a roadway other than parallel with the edge of the roadway, heading in the direction of lawful traffic movement, and with the wheels of the vehicle within 18 inches of the curb or the edge of the roadway.

(B) The Administrator may mark any street where parking is permitted with lines that indicate the parking space for vehicles, and no person may park any vehicle outside such lines.
(1999 Code, § 72.01) Penalty, see § 70.99

§ 72.02 PARKING PROHIBITED IN CERTAIN LOCATIONS.

(A) No person may park any vehicle or permit it to stand in any of the following locations:

(1) As provided in G.S. § 20-162, in front of a private driveway;

(2) As provided in G.S. § 20-162, within 15 feet in either direction of a fire hydrant (whether or not located in a public right-of-way) or the entrance to a fire station;

(3) As provided in G.S. § 20-162, within 15 feet of the intersection of property lines at an intersection of highways;

(4) Within an intersection or on a marked crosswalk;

(5) Within 30 feet of any traffic-control signal installed at an intersection;

(6) On a sidewalk or on the space between the sidewalk and the curb;

(7) In any portion of a roadway intended to carry traffic at the time such vehicle is parked or left standing;

(8) On the roadway side of any vehicle stopped, standing, or parked at the edge of a curb or street;

(9) Alongside or opposite any street excavation or obstruction when such parking or standing would obstruct traffic;

(10) Upon any bridge, overpass, or other elevated structure or within any tunnel or other underpass structure;

(11) Within 50 feet of the nearest rail of a railroad crossing;

(12) In any alley or private road in such a manner or under such conditions as to leave available less than ten feet of the width of the roadway for the free movement of vehicular travel or to block the driveway entrance to any abutting property; and

(13) In any parking space clearly marked as reserved for the handicapped, whether on public or private property, unless the driver of or a passenger in such vehicle is handicapped or a passenger in such vehicle is visually impaired.

(B) The Administrator may install no-parking signs, yellow curb markings, or other traffic-control devices to indicate where parking and standing is prohibited in accordance with division (A) of this section, but enforcement of the provisions of this section is not dependent on the installation of such devices.
(1999 Code, § 72.02) Penalty, see § 70.99
Statutory reference:
Handicapped drivers and passengers, see G.S. § 20-37.6

§ 72.03 PARKING PROHIBITED ON CERTAIN STREETS AT CERTAIN TIMES.

Whenever, pursuant to Chapter 74, Schedule I, the Administrator has installed signs, yellow pavement markings, or other traffic-control devices clearly indicating that parking or standing within a specified area is prohibited, or is allowed only at certain times or for a certain duration, no person may park any vehicle or permit it to stand contrary to the directions of those traffic-control devices.
(1999 Code, § 72.03) Penalty, see § 70.99

§ 72.04 PARKING PROHIBITED FOR CERTAIN PURPOSES.

No person may park any vehicle or permit it to stand upon any street for any of the following principal purposes:

(A) Displaying it for sale, except foreclosure and judicial sales;

(B) Washing, greasing, changing tires, or repairing such vehicle, except to the extent necessitated by an emergency;

(C) Storing the vehicle; or

(D) Advertising.
(1999 Code, § 72.04) Penalty, see § 70.99

§ 72.05 LOADING AND UNLOADING ZONES.

(A) Notwithstanding any other provision of this chapter, whenever streets or portions of streets are designated as vehicle loading and unloading zones in accordance with the provisions of this chapter, parking and standing are permitted in these locations, but only in accordance with the provisions of this chapter.

(B) Whenever a school loading zone is designated and clearly marked by traffic-control devices in accordance with Chapter 74, Schedule II, no person may park any vehicle or permit it to stand in any such zone for any purpose other than the expeditious loading or unloading of school passengers, and then only for a period not to exceed ten minutes.
(1999 Code, § 72.05) Penalty, see § 70.99

CHAPTER 73: TRAFFIC SCHEDULES

Schedule

I. Stop intersections
II. Speed limits

SCHEDULE I. STOP INTERSECTIONS.

(A) The second-named street in the following list of intersections is hereby designated as a main traveled or through street, and the Administrator shall erect stop signs on the first-named street at the entrance to the main traveled or through street. The effect of such stop signs on vehicles and pedestrians shall be as provided in G.S. §§ 20-158 and 20-172.

Stop Street	***Through Street***
Beasley Street	Mutual Boulevard*
Church Street	Mutual Boulevard*
Dancy Street	Main Street*
Fifth Street	Mutual Boulevard*
First Street	Greenwood Boulevard*
Fourth Street	Main Street*
Mullin Street	Main Street*
Otis Avenue	Neville Street
Sixth Street	Greenwood Boulevard*
Third Street	Neville Street
Walston Street	Greenwood Boulevard*

(B) The Administrator shall erect or install devices to regulate vehicular and pedestrian traffic at the following intersections and locations. The effect of such stoplights or stop signs on vehicles and pedestrians shall be as provided in G.S. §§ 20-158 and 20-172.

Street	***Type of Device***
Cherry Street	Stop sign
Main Street*	Mechanical stoplight
Mutual Boulevard*	Mechanical stoplight

(1999 Code, Ch. 73, Sch. I) Penalty, see § 70.99

Cross-reference:

Streets part of state highway system designated by (*), see § 70.01

SCHEDULE II. SPEED LIMITS.

The following speed limits shall be applicable to the following streets as indicated, and the Administrator shall install appropriate traffic-control devices clearly indicating the established speed limit:

Street	***Speed Limit***
Beasley Street	25 mph
Bell Street	25 mph
Black Street	25 mph
Cherry Street	25 mph
Church Street	25 mph
Dancy Street	25 mph
Fifth Street	25 mph
First Street	25 mph
Fourth Street	25 mph
Geddie Avenue	25 mph
Greenwood Boulevard*	35 mph
Howard Avenue	25 mph
Main Street*	35 mph
Mullin Street	25 mph
Mutual Boulevard*	35 mph
Neville Street	35 mph
Old Sparta Road	25 mph
Otis Avenue	25 mph
Rainey Street	25 mph
Second Street	25 mph
Sixth Street	25 mph
Snowden Street	25 mph
Third Street	25 mph

Street	***Speed Limit***
Tyson Street	25 mph
Walston Street	25 mph
Walter Street	25 mph
Watson Street	25 mph
William Street	25 mph
U.S Bypass-U.S. 258-N.C. 44 from the Tar River, the western corporate limits, eastward to U.S. 258-N.C. 44, and U.S. 258-N.C. 44 from U.S. 64 Bypass-U.S. 258-N.C. 44 eastward for 0.20 mile	45 mph

(1999 Code, Ch. 73, Sch. IV) Penalty, see § 70.99

Cross-reference:

Streets part of state highway system designated by (*), see § 70.01

CHAPTER 74: PARKING SCHEDULES

Schedule

I. No parking at any time
II. School loading zones

SCHEDULE I. NO PARKING AT ANY TIME.

The Administrator shall install no parking signs, yellow curb markings, or traffic-control devices to indicate that parking and standing is prohibited at all times at the following locations:

(A) Main Street*; and

(B) Mutual Boulevard*.

(1999 Code, Ch. 74, Sch. I) Penalty, see § 70.99

Cross-reference:

Streets part of state highway system designated by (*), see § 70.01

SCHEDULE II. SCHOOL LOADING ZONES.

The Board of Commissioners finds that a school loading zone is necessary in the following locations to permit children and other passengers to be loaded and unloaded from vehicles in safety, and the Administrator shall install appropriate traffic-control devices to give clear notice that parking or standing within the following locations is limited to ten minutes: Walston Street.
(1999 Code, Ch. 74, Sch. II) Penalty, see § 70.99

TITLE IX: GENERAL REGULATIONS

Chapter

90. ABANDONED AND JUNKED MOTOR VEHICLES

91. ANIMALS

92. FIRE PREVENTION

93. NUISANCES

94. STREETS AND SIDEWALKS

95. MINIMUM HOUSING STANDARDS

96. PARKS AND RECREATION

CHAPTER 90: ABANDONED AND JUNKED MOTOR VEHICLES

Section

90.01 Statement of policy
90.02 Definitions
90.03 Administration
90.04 Abandoned vehicle unlawful; removal authorized
90.05 Nuisance vehicle unlawful; removal authorized
90.06 Junked motor vehicle regulated; removal authorized
90.07 Removal of vehicle; pre-towing notice requirements
90.08 Exceptions to prior notice requirement
90.09 Removal of vehicle; post-towing notice requirements
90.10 Right to hearing before sale or final disposition of vehicle
90.11 Redemption of vehicle during proceedings
90.12 Sale and disposition of unclaimed vehicle
90.13 Conditions on removal of vehicles from private property
90.14 Protection against liability
90.15 Unlawful removal of impounded vehicle
90.16 Exceptions
90.17 Fees and charges
90.18 Storage of unlicensed motor vehicles

§ 90.01 STATEMENT OF POLICY.

The Town Board has found it necessary and desirable to promote or enhance:

(A) The quality of urban attractiveness and the aesthetic appearance of the town;

(B) The protection of property values throughout the town;

(C) The preservation of the livability and attractiveness of neighborhoods;

(D) The promotion of tourism, conventions, and other opportunities for economic development for the town;

(E) The attractiveness of the town's thoroughfares and commercial roads which present the primary, public visibility to visitors and to passers-by of the town; and

(F) The promotion of the comfort, happiness, and emotional stability of occupants of property in the vicinity of junked motor vehicles.
(Ord. passed 4-27-2015)

§ 90.02 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

ABANDONED VEHICLE. As authorized and defined in G.S. § 160A-303, means one that:

(1) Is left upon a public street or highway in violation of a law or ordinance prohibiting parking;

(2) Is left on a public street or highway for longer than seven days;

(3) Is left on property owned or operated by the town for longer than 24 hours; or

(4) Is left on private property without the consent of the owner, occupant, or lessee thereof for longer than two hours.

AUTHORIZING OFFICIAL. The public official), respectively, designated by the Town Manager to authorize the removal of vehicles under the provisions of this chapter.

JUNKED MOTOR VEHICLE. As authorized and defined in G.S. § 160A-303.2, means a vehicle that does not display a current license plate lawfully upon that vehicle and that:

(1) Is partially dismantled or wrecked;

(2) Cannot be self-propelled or moved in the manner in which it originally was intended to move; or

(3) Is more than five years old and appears to be worth less than $100.

MOTOR VEHICLE or ***VEHICLE.*** A machine designed or intended to travel over land by self-propulsion or while attached to any self-propelled vehicle.

NUISANCE VEHICLE. A vehicle on public or private property that is determined and declared to be a health or safety hazard, a public nuisance, and unlawful, including a vehicle found to be:

(1) A breeding ground or harbor for mosquitoes, other insects, rats, or other pests;

(2) A point of heavy growth of weeds or other noxious vegetation over eight inches in height;

(3) A point of collection of pools or ponds of water;

(4) A point of concentration of quantities of gasoline, oil, or other flammable or explosive materials as evidenced by odor;

(5) One which has areas of confinement which cannot be operated from the inside, such as trunks, hoods, and the like;

(6) So situated or located that there is a danger of it falling or turning over;

(7) One which is a point of collection of garbage, food waste, animal waste, or any other rotten or putrescible matter of any kind;

(8) One which has sharp parts thereof which are jagged or contain sharp edges of metal or glass; or

(9) Any other vehicle specifically declared a health and safety hazard and a public nuisance by the Town Board of Commissioners.
(Ord. passed 4-27-2015)

§ 90.03 ADMINISTRATION.

(A) The Town Manager (or his or her designee) shall be responsible for the administration and enforcement of this chapter. The County Sheriff's Department (acting on behalf of the town) shall be responsible for administering the removal and disposition of vehicles determined to be abandoned on the public streets and highways within the town and on property owned by the town.

(B) The Town Manager (or his or her designee) shall be responsible for administering the removal and disposition of abandoned, nuisance, or junked motor vehicles located on private property. The town may, on an annual basis, contract with private tow truck operators or towing businesses to remove, store, and dispose of abandoned vehicles, nuisance vehicles, and junked motor vehicles in compliance with this chapter and applicable state laws.

(C) Nothing in this chapter shall be construed to limit the legal authority or powers of officers of the County Sheriff's Department and Fire Department in enforcing other laws or in otherwise carrying out their duties.
(Ord. passed 4-27-2015)

§ 90.04 ABANDONED VEHICLE UNLAWFUL; REMOVAL AUTHORIZED.

(A) It shall be unlawful for the registered owner or person entitled to possession of a vehicle to cause or allow such vehicle to be abandoned.

(B) Upon investigation, proper authorizing officials of the town may determine that a vehicle is an abandoned vehicle and order the vehicle removed.
(Ord. passed 4-27-2015) Penalty, see § 10.99

§ 90.05 NUISANCE VEHICLE UNLAWFUL; REMOVAL AUTHORIZED.

(A) It shall be unlawful for the registered owner or person entitled to possession of a motor vehicle or for the owner, lessee, or occupant of the real property upon which the vehicle is located to leave or allow the vehicle to remain on the property after it has been declared a nuisance vehicle.

(B) Upon investigation, the Town Code Enforcement Officer may determine and declare that a vehicle is a health or safety hazard and a nuisance vehicle and order the vehicle removed.
(Ord. passed 4-27-2015) Penalty, see § 10.99

§ 90.06 JUNKED MOTOR VEHICLE REGULATED; REMOVAL AUTHORIZED.

(A) It shall be unlawful for the registered owner or person entitled to the possession of a junked motor vehicle or for the owner, lessee, or occupant of the real property upon which a junked motor vehicle is located to leave or allow the vehicle to remain on the property after the vehicle has been ordered removed.

(B) It shall be unlawful to have a junked motor vehicle on the premises of public or private property.

(C) Upon investigation, the Town Code Enforcement Officer may order the removal of a junked motor vehicle after finding in writing that the aesthetic benefits of removing the vehicle outweigh the burdens imposed on the private property owner. Such findings shall be based on a balancing of the monetary loss of the apparent owner against the corresponding gain to the public by promoting or enhancing community, neighborhood, or area appearance. The following among other relevant factors may be considered:

(1) Protection of property values;

(2) Promotion of tourism and other economic development opportunities;

(3) Indirect protection of public health and safety;

(4) Preservation of the character and integrity of the community; and

(5) Promotion of the comfort, happiness, and emotional stability of area residents.
(Ord. passed 4-27-2015) Penalty, see § 10.99

§ 90.07 REMOVAL OF VEHICLE; PRE-TOWING NOTICE REQUIREMENTS.

(A) An abandoned, nuisance, or junked vehicle which is to be removed shall be towed only after notice to the registered owner or person entitled to possession of the vehicle. In the case of a nuisance vehicle or a junked motor vehicle, if the name and mailing address of the registered owner or person entitled to the possession of the vehicle or the owner, lessee, or occupant of the real property upon which the vehicle is located can be ascertained in the exercise of reasonable diligence, the notice shall be given by first-class mail. The person who mails the notice shall retain a written record to show the name and address to which mailed and the date mailed. If such names and addresses cannot be ascertained or if the vehicle to be removed is an abandoned motor vehicle, notice shall be given by affixing on the windshield or some other conspicuous place on the vehicle a notice indicating that the vehicle will be removed by the town on a specified date, no sooner than seven days after the notice is affixed. The notice shall state that the vehicle will be removed by the town on a specified date, no sooner than seven days after the notice is affixed or mailed, unless the vehicle is moved by the owner or legal possessor prior to that time.

(B) With respect to abandoned vehicles on private property, nuisance vehicles, and junked motor vehicles to which notice is required to be given, if the registered owner or person entitled to possession does not remove the vehicle but chooses to appeal the determination that the vehicle is abandoned, a nuisance vehicle, or in the case of a junked motor vehicle that the aesthetic benefits of removing the vehicle outweigh the burdens, such appeal shall be made to the Town Board of Commissioners in writing, heard at the next regularly scheduled meeting of the Town Board of Commissioners, and further proceedings to remove the vehicle shall be stayed until the appeal is heard and decided.
(Ord. passed 4-27-2015)

§ 90.08 EXCEPTIONS TO PRIOR NOTICE REQUIREMENT.

(A) The requirement that notice be given prior to the removal of an abandoned, nuisance, or junked motor vehicle may, as determined by the authorizing official, be omitted in those circumstances where there is a special need for prompt action to eliminate traffic obstructions or to otherwise maintain and protect the public safety and welfare. Such findings shall, in all cases, be entered by the authorizing official in the appropriate daily records.

(B) Circumstances justifying the removal of vehicles without prior notice include:

(1) *Vehicles abandoned on the streets.* For vehicles left on public streets and highways, the Board of Commissioners hereby determines that immediate removal of such vehicles may be warranted when they are:

(a) Obstructing traffic;

(b) Parked in violation of an ordinance prohibiting or restricting parking;

(c) Parked in a no-stopping or -standing zone;

(d) Parked in a loading zone;

(e) Parked in a bus zone; or

(f) Parked in violation of a temporary parking restriction imposed under this code.

(2) *Other abandoned or nuisance vehicles.* With respect to abandoned or nuisance vehicles left on town-owned property other than the streets and highways and on private property, such vehicles may be removed without giving prior notice only in those circumstances where the authorizing official finds a special need for prompt action to protect and maintain the public health, safety, and welfare. By way of illustration and not of limitation, such circumstances include vehicles blocking or obstructing ingress or egress to businesses and residences, vehicles parked in such a location or manner as to pose a traffic hazard, and vehicles causing damage to public or private property.
(Ord. passed 4-27-2015)

§ 90.09 REMOVAL OF VEHICLE; POST-TOWING NOTICE REQUIREMENTS.

(A) Any abandoned, nuisance, or junked motor vehicle which has been ordered removed may, as directed by the town, be removed to a storage garage or area by the tow truck operator or towing business contracting to perform such services for the town. Whenever such a vehicle is removed, the town official shall immediately notify the last known registered owner of the vehicle, such notice to include the following:

(1) The description of the removed vehicle;

(2) The location where the vehicle is stored;

(3) The violation with which the owner is charged, if any;

(4) The procedure the owner must follow to redeem the vehicle; and

(5) The procedure the owner must follow to request a probable cause hearing on the removal.

(B) The town shall attempt to give notice to the vehicle owner by telephone; however, whether or not the owner is reached by telephone, written notice, including the information set forth in divisions (A)(1) through (A)(4) of this section, shall also be mailed to the registered owner's last known address, unless this notice is waived in writing by the vehicle owner or his or her agent.

(C) If the vehicle is registered in the state, notice shall be given within 24 hours. If the vehicle is not registered in the state, notice shall be given to the registered owner within 72 hours from the removal of the vehicle.

(D) Whenever an abandoned, nuisance, or junked motor vehicle is removed and such vehicle has no valid registration or registration plates, the authorizing town official shall make reasonable efforts, including checking the vehicle identification number, to determine the last known registered owner of the vehicle and to notify him or her of the information set forth in divisions (A)(1) through (A)(4) of this section.
(Ord. passed 4-27-2015)

§ 90.10 RIGHT TO HEARING BEFORE SALE OR FINAL DISPOSITION OF VEHICLE.

After the removal of an abandoned vehicle, nuisance vehicle, or junked motor vehicle, the owner or any other person entitled to possession is entitled to a hearing for the purpose of determining if probable cause existed for removing the vehicle. A request for hearing must be filed in writing with the county magistrate designated by the chief district court judge to receive such hearing requests. The magistrate will set the hearing within 72 hours of receipt of the request, and the hearing will be conducted in accordance with the provisions of G.S. § 20-219.11.
(Ord. passed 4-27-2015)

§ 90.11 REDEMPTION OF VEHICLE DURING PROCEEDINGS.

At any stage in the proceedings, including before the probable cause hearing, the owner may obtain possession of the removed vehicle by paying a towing fee, including any storage charges, or by posting a bond for double the amount of such fees and charges to the tow truck operator or towing business having custody of the removed vehicle. Upon regaining possession of a vehicle, the owner or person entitled to the possession of the vehicle shall not allow or engage in further violations of this chapter.
(Ord. passed 4-27-2015)

§ 90.12 SALE AND DISPOSITION OF UNCLAIMED VEHICLE.

Any abandoned, nuisance, or junked motor vehicle which is not claimed by the owner or other party entitled to possession will be disposed of by the town or tow truck operator or towing business having

custody of the vehicle. Disposition of such a vehicle shall be carried out in coordination with the town and in accordance with G.S. Chapter 44A, Article 1.
(Ord. passed 4-27-2015)

§ 90.13 CONDITIONS ON REMOVAL OF VEHICLES FROM PRIVATE PROPERTY.

As a general policy, the town will not remove a vehicle from private property if the owner, occupant, or lessee of such property could have the vehicle removed under applicable state law procedures. In no case will a vehicle be removed by the town from private property without a written request of the owner, occupant, or lessee, except in those cases where a vehicle is a nuisance vehicle or is a junked motor vehicle which has been ordered removed by the Town Code Enforcement Officer. The town may require any person requesting the removal of an abandoned, nuisance, or junked motor vehicle from private property to indemnify the town against any loss, expense, or liability incurred because of the removal, storage, or sale thereof.
(Ord. passed 4-27-2015)

§ 90.14 PROTECTION AGAINST LIABILITY.

No person shall be held to answer in any civil or criminal action to any owner or other person legally entitled to the possession of an abandoned, nuisance, or junked motor vehicle for disposing of such vehicle as provided in this chapter.
(Ord. passed 4-27-2015)

§ 90.15 UNLAWFUL REMOVAL OF IMPOUNDED VEHICLE.

It shall be unlawful for any person to remove or attempt to remove from any storage facility designated by the town any vehicle which has been impounded pursuant to the provisions of this code unless and until all towing and impoundment fees which are due, or bond in lieu of such fees, have been paid.
(Ord. passed 4-27-2015) Penalty, see § 10.99

§ 90.16 EXCEPTIONS.

Nothing in this chapter shall apply to any vehicle:

(A) Which is located in a bona fide automobile graveyard or junkyard as defined in G.S. § 136-143, in accordance with the Junkyard Control Act, G.S. §§ 136-141 et seq.;

(B) Which is in an enclosed building;

(C) Which is on the premises of a business enterprise being operated in a lawful place and manner if the vehicle is necessary to the operation of the enterprise; or

(D) Which is in an appropriate storage place or depository maintained in a lawful place and manner by the town.
(Ord. passed 4-27-2015)

§ 90.17 FEES AND CHARGES.

The fees and charges for the removal and storage of abandoned or junked motor vehicles shall be determined from time to time by the Board and listed in the schedule of fees and charges maintained in the Clerk's office.
(Ord. passed 4-27-2015)

§ 90.18 STORAGE OF UNLICENSED MOTOR VEHICLES.

(A) No person may cause, suffer, or permit, on premises under the control of such person, the storage, outside a fully enclosed structure, of a motor vehicle that does not display current license plates and a current inspection sticker unless a permit has been issued for such vehicle under this section, provided that:

(1) The restrictions of this section shall not apply to any person until 45 days after the Administrator initially notifies the responsible person that a permit is required under this section; and

(2) This section shall not apply to persons lawfully engaged in a business necessitating such storage so long as such business has received all legally required state and local permits and licenses.

(B) An application or an initial permit under this section shall be made to the Administrator on a form prescribed by the town within 30 days after the Administrator notifies the responsible person that a permit is required under this section. Permits shall be valid for a period of six months from the date of issuance. The Administrator shall send to the permittee an application for a renewal permit at least 30 days prior to the expiration of the permit, and an application for a renewal permit must be submitted to the Administrator at least 15 days prior to expiration of the permit.

(C) Any person who submits a completed permit application pursuant to division (B) of this section shall be issued a permit under this section if:

(1) The applicant pays a semi-annual permit fee of $50;

(2) (a) The applicant demonstrates to the reasonable satisfaction of the Administrator either that:

1. The vehicle is operable; or

2. The vehicle is capable of being made operable and the applicant is in the process of repairing the vehicle such that it will be made operable within a period of not more than six months.

(b) When a vehicle has remained inoperable for a continuous period of six months or more after the issuance pursuant to this division (C) of a permit that was premised upon a finding of compliance with division (C)(2)(a)2. of this section, the Administrator shall regard this in subsequent applications as conclusive evidence of the applicant's inability to satisfy division (C)(2)(a)2. of this section; and

(3) The applicant demonstrates that he or she owns or leases the property on which the vehicle is stored or has the written permission of the owner or lessee of such property to store the vehicle at that location.

(D) If the Administrator denies an application for an initial or renewal permit on the basis that the applicant has failed to demonstrate that the vehicle is operable or can be made operable within a period of six months, the applicant may appeal this determination to the Board of Commissioners. The Board may find that a vehicle is capable of being made operable within a period of six months or more after the issuance of a previous permit under this section.

(E) For purposes of this section, the ***ADMINISTRATOR*** shall be the Town Manager or any person designated by the Town Manager to perform the functions and exercise the responsibilities assigned by this section to the Administrator.

(F) The provisions of this section shall not apply to a vehicle determined by the Administrator to be a junked motor vehicle or a nuisance motor vehicle.

(G) A violation of the provisions of this section shall subject the violator to a civil penalty.
(Ord. passed 4-27-2015) Penalty, see § 10.99

CHAPTER 91: ANIMALS

Section

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Dogs, see G.S. Chapter 67
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GENERAL PROVISIONS

§ 91.01 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

ADMINISTRATOR. The person designated by the Town Manager to perform the functions assigned by this chapter to the Administrator.

ANIMAL. Any live, vertebrate creature.

DOMESTIC ANIMAL. An animal that typically is found in a domesticated or tame state and usually is kept as a pet. This definition includes but is not limited to dogs and cats.

LIVESTOCK. An animal that typically is kept principally for productive or useful purposes, rather than as a pet. The definition includes but is not limited to horses, cows, pigs, goats, sheep, mules, and chickens.

RUNS AT LARGE. An animal is off the premises of the owner and is not under the immediate and effective constraint of the owner or other competent person in charge of the animal.

WILD ANIMAL. An animal that typically is found in a nondomesticated state and that poses or reasonably appears to pose a potential danger to persons, other animals, or property.
(1999 Code, § 91.01)

§ 91.02 INTERFERENCE WITH ADMINISTRATOR PROHIBITED.

(A) No person may obstruct, interfere with, hinder, or molest the Administrator in the lawful performance of any duty authorized by this chapter.

(B) No person may release or attempt to release any animal that is in the custody of the Administrator without permission from the Administrator.
(1999 Code, § 91.02) Penalty, see § 91.99

§ 91.03 IMPOUNDMENT PROVISIONS.

(A) The Administrator may impound any animal that is:

(1) Found running at large.

(2) In accordance with § 91.36, suspected of having rabies; or

(3) Found to be without proper care because of the incapacitation or absence of its owner.

(B) Whenever an animal is impounded or whenever an animal otherwise lawfully comes into the possession of the Administrator, that animal shall be taken to the county animal control shelter until released or destroyed in accordance with the provisions of this section.

(C) Whenever an animal is impounded or otherwise comes into the possession of the Administrator, the Administrator shall make reasonable efforts to identify the owner, notify him or her of the impoundment, and advise him or her of the conditions under which the animal may be reclaimed.

(D) An animal taken to the county animal control shelter shall be reclaimed by the owners or adopted by others or destroyed in accordance with the policies and procedures adopted by the county for the administration of the animal control shelter.
(1999 Code, § 91.03)
Statutory reference:
Municipal animal shelters, see G.S. § 160A-493

CARE AND CONTROL OF ANIMALS

§ 91.15 CARE REQUIRED; ABANDONMENT PROHIBITED.

(A) No owner may fail to provide his or her animals with sufficient good and wholesome food and water, proper shelter and protection from the weather, and veterinary care when needed to prevent suffering.

(B) No owner of an animal may abandon such animal.
(1999 Code, § 91.15) Penalty, see § 91.99
Statutory reference:
Abandonment of animals, see G.S. § 14-361.1

§ 91.16 CRUELTY TO ANIMALS.

In accordance with G.S. § 14-360, no person shall willfully overdrive, overload, wound, injure, torture, cruelly beat, needlessly mutilate, or kill any animal or cause or procure the same.
(1999 Code, § 91.16) Penalty, see § 91.99
Statutory reference:
Cruelty to animals, see G.S. §§ 14-360 et seq.

§ 91.17 RESPONSIBILITY OF PERSON INJURING ANIMAL.

(A) Any person who, as the operator of a motor vehicle or bicycle, strikes and injures a domestic animal shall stop at once and render such assistance as may be possible and shall immediately report the incident to the animal's owner.

(B) If the owner cannot be ascertained or located with reasonable effort, the operator shall notify the Administrator by contacting the town.
(1999 Code, § 91.17) Penalty, see § 91.99

§ 91.18 RUNNING AT LARGE PROHIBITED.

(A) No person owning or having possession, charge, custody, or control of any animal shall cause, permit, or allow the animal to stray or in any manner to run at large upon any public street, sidewalk, or other public property or to stray, run at large, or otherwise trespass upon the private property of another.

(B) As provided in G.S. § 67-2, no person owning or having any bitch may allow her to run at large while the bitch is in heat.

(C) As provided in G.S. § 67-12, no person may allow his or her dog over six months old to run at large at night unaccompanied by the owner or some person acting on his or her behalf.
(1999 Code, § 91.18) Penalty, see § 91.99

§ 91.19 ANIMALS CREATING A NUISANCE.

No person may have or keep within the town any animal that:

(A) Habitually or repeatedly, without provocation, chases, snaps at, or attacks pedestrians, bicycles, or vehicles;

(B) Causes serious annoyance to neighboring residents and interferes with the reasonable use and enjoyment of their property by habitual barking, howling, or whining;

(C) Repeatedly turns over garbage pails, damages gardens, flowers, shrubs, or vegetables; or

(D) Habitually trespasses upon neighboring properties and carries off articles or objects not belonging to the animal's owner.
(1999 Code, § 91.19) Penalty, see § 91.99

§ 91.20 KEEPING CERTAIN ANIMALS PROHIBITED.

No person may have or keep within the town any livestock or wild animals.
(1999 Code, § 91.20) Penalty, see § 91.99

§ 91.21 VICIOUS ANIMALS.

As provided in G.S. § 130A-200, when an animal becomes vicious or a menace to the public health, the owner of such animal or person harboring such animal may not permit such animal to leave the premises on which kept unless on leash in the care of a responsible person.
(1999 Code, § 91.21) Penalty, see § 91.99

§ 91.22 LOCATION AND MAINTENANCE OF ANIMAL PENS AND ENCLOSURES.

(A) Lots, pens, coops, and other enclosures where animals are kept or fed shall be located such distance from dwellings and places of concentrated human activity and at such distance from sources of water or food supply or food preparation as may be necessary to protect the public health.

(B) All such lots, pens, coops, and other enclosures shall be maintained at all times in a sufficiently clean and sanitary manner to protect adjacent properties from offensive odors.
(1999 Code, § 91.22) Penalty, see § 91.99

§ 91.23 DESTRUCTION OF RODENTS, SQUIRRELS, PIGEONS, AND THE LIKE.

The use of firearms in the destruction of rodents, squirrels, pigeons, or similar animals or reptiles that are considered a menace to public health or property may be permitted by special permission of and after issuance of a special permit by the jurisdictional law enforcement agency.
(Ord. passed 11-21-2014)

§ 91.24 REMOVAL OF FECES DEPOSITED BY DOGS REQUIRED.

(A) It shall be unlawful for any person walking or in control of any dog to allow or permit such animal to defecate upon any public property, including but not limited to parks, trails, streets, sidewalks, and school grounds, unless such person removes all feces and other animal waste so deposited by such animal before leaving the immediate premises.

(B) It shall be unlawful for any person walking or in control of any dog to allow or permit such animal to defecate upon any private property not owned by or in the possession of the person that owns such dog, unless such person removes all feces and other animal waste so deposited by such animal

before leaving the immediate premises; provided that this restriction shall not apply if the owner or other person in possession of such private property has in writing authorized the dog to be walked on such property without the removal of feces so deposited.

(C) This section shall not apply to dog being walked by persons with visual or other physical disabilities that substantially interfere with the ability of such persons to comply with its provisions.

(D) All feces removed in accordance with the provisions of this section shall be:

(1) Properly wrapped or packaged to contain odors and protect the public health, and deposited in a trash container where the person making the deposit is otherwise authorized to deposit trash; or

(2) Disposed of in another sanitary manner.
(Ord. passed 2-23-2015) Penalty, see § 91.99

RABIES CONTROL

§ 91.35 ADMINISTRATOR TO COOPERATE IN VACCINATION PROGRAMS.

The Administrator shall cooperate with and assist the county animal control officers in their efforts to see that all animals are vaccinated against rabies in accordance with the provisions of G.S. §§ 130A-184 through 130A-200.
(1999 Code, § 91.35)

§ 91.36 QUARANTINE OF ANIMALS SUSPECTED OF HAVING RABIES.

(A) As provided in G.S. §§ 130A-196 and 130A-198, every dog or cat (except a vaccinated police dog) that has bitten any person or that shows symptoms of rabies shall be securely confined for a period of at least ten days.

(B) As provided in G.S. §§ 130A-196 and 130A-198, the owner of an animal that has bitten any person or that shows symptoms of rabies shall report the same immediately to the local health director. In addition any person bitten by an animal shall immediately report the incident to the local health director.

(C) As provided in G.S. §§ 130A-196 and 130A-198, animals quarantined in accordance with this section shall be confined in a place designated by the local health director.

(D) If rabies does not develop during the period of confinement, the animal may be released. If rabies does develop, the animal shall be disposed of as provided in § 91.37.
(1999 Code, § 91.36)

§ 91.37 DISPOSITION OF RABID ANIMALS.

(A) As provided in G.S. § 130A-199, an animal diagnosed as having rabies by a licensed veterinarian shall be destroyed and its head sent to the state laboratory of public health. The heads of all dogs and cats that die during the ten-day confinement period required by G.S. § 130A-196 shall be immediately sent to the state laboratory of public health for rabies diagnosis.

(B) As provided in G.S. §§ 130A-197 and 130A-198:

(1) A dog or cat bitten by a proven rabid animal or animal suspected of having rabies that is not available for laboratory diagnosis shall be destroyed immediately by its owner, the county animal control officer, or a peace officer unless the dog or cat has been vaccinated against rabies in accordance with G.S. §§ 130A-184 et seq. and the rules of the state commission for health services more than three weeks prior to being bitten, and is given a booster dose of rabies vaccine within three days of the bite; and

(2) A person who owns or has possession of an animal which is suspected of having rabies shall immediately notify the local health director or county animal control officer and shall securely confine the animal in a place designated by the local health director. Dogs and cats shall be confined for a period of ten days. Other animals may be destroyed at the discretion of the state public health veterinarian.

(C) At the end of the confinement period under division (B)(2) of this section, the animal may be released from confinement if declared free from rabies by a licensed veterinarian or an animal control officer designated in accordance with G.S. § 130A-184(1).
(1999 Code, § 91.37)

LICENSING

§ 91.50 LICENSE REQUIRED.

(A) Every person who keeps within the town any dog or cat over four months of age shall obtain from the town a license authorizing him or her to keep the animal.

(B) The Administrator shall issue the license required by this section upon the payment of a tax of $1 for male dogs and cats and $2 for female dogs and cats.
(1999 Code, § 91.50) Penalty, see § 91.99

§ 91.51 ISSUANCE OF LICENSE AND TAG.

(A) The license issued pursuant to this subchapter shall contain the name, address, and telephone number of the owner and shall adequately describe the animal covered.

(B) The Administrator shall issue to each license recipient a tag for each animal covered under a license. The tag shall be of a size and construction that allow it to be easily fastened to an animal's collar or halter and shall indicate the year for which the tag is issued.
(1999 Code, § 91.51)

§ 91.52 DURATION OF LICENSE; PAYMENT OF TAX.

(A) The license issued pursuant to this subchapter shall be obtained annually by January 31 of each year and shall be valid for the period running from January 1 to December 31 of the year in which obtained.

(B) After January 31 a late payment charge of 5% per month or any part thereof shall be added to the tax set forth in § 91.50. However, no civil penalty shall be assessed in accordance with § 91.99 if the license is obtained solely at the initiative of the owner and not as the result of the enforcement efforts of the Administrator.

(C) Persons moving to the town shall have 30 days in which to comply with this subchapter. The tax charged shall be prorated according to the number of months remaining in the calendar year.

(D) Persons acquiring animals after January 31 in any year or persons whose animals become four months old after January 31 in any year shall comply with this subchapter within the succeeding 30 days. The tax charged shall be prorated, according to the number of months remaining in the calendar year.
(1999 Code, § 91.52)

§ 91.99 PENALTY.

(A) A violation of any of the provisions of this chapter shall constitute a misdemeanor punishable by a fine of not more than $50 or imprisonment for not more than 30 days, or both.

(B) A violation of any of the provisions of this chapter shall also subject the offender to a civil penalty of $10. The penalty for a second violation of § 91.18(A) shall be $15 and for a third violation and subsequent violations, the penalty shall be $25. If the offender fails to pay this penalty within 15 calendar days after being cited for a violation, the penalty may be recovered by the town in a civil action in the nature of a debt.

(C) Each day that any violation continues, after a person has been notified that such violation exists and that he or she is subject to the penalties specified in divisions (A) and (B) of this section, shall constitute a separate offense.

(D) This chapter may also be enforced by an appropriate equitable action, including injunctions or orders of abatement.

(E) The town may enforce this chapter by any one or any combination of the remedies set out in this section.
(1999 Code, § 91.99)

CHAPTER 92: FIRE PREVENTION

Section

92.01 Fire Chief defined
92.02 Fire limits
92.03 Interference with firefighters
92.04 False alarms; damaging equipment
92.05 Riding on Fire Department apparatus
92.06 Congregating at fires
92.07 Inspection of premises for fire hazards
92.08 Blocking or obstructing exits
92.09 Marking and lighting of exits
92.10 Maximum occupancy of rooms
92.11 Fire extinguishers required in nonresidential premises
92.12 Open burning

92.99 Penalty

Statutory reference:

Fire protection in municipalities, see G.S. §§ 160A-291 et seq.
Setting fires unlawfully, see G.S. §§ 14-136 et seq.

§ 92.01 FIRE CHIEF DEFINED.

When used in this chapter, the term ***FIRE CHIEF*** refers to the Town Fire Chief, the chief of any fire department that the town has contracted with to provide fire service to the town, or to any other person designated by the Town Manager to perform the duties assigned to the Fire Chief by this chapter. (1999 Code, § 92.01)

Statutory reference:

Duties of the Fire Chief, see G.S. § 160A-292

§ 92.02 FIRE LIMITS.

(A) The primary fire limits shall be shown on the fire zone map as approved and modified from time to time by the Board of Commissioners. A copy of this map shall be maintained in the office of the Town Clerk.

(B) As provided in G.S. § 160A-436, within the primary fire zone no frame or wooden building or structure or addition thereto may be erected, altered, repaired, or moved (either into the limits or from one place to another within the limits) except in accordance with a building permit issued by the town and approved by the State Commissioner of Insurance.
(1999 Code, § 92.02) Penalty, see § 92.99

§ 92.03 INTERFERENCE WITH FIREFIGHTERS.

As provided in G.S. § 58-82-1, no person may willfully interfere in any manner with firefighters engaged in the performance of their duties.
(1999 Code, § 92.03) Penalty, see § 92.99

§ 92.04 FALSE ALARMS; DAMAGING EQUIPMENT.

As provided in G.S. § 14-286, no person may wantonly and willfully give a false alarm of fire or damage fire alarm, detection, or extinguishing equipment.
(1999 Code, § 92.04) Penalty, see § 92.99
Statutory reference:
Blocking fire-fighting equipment, see G.S. § 20-157

§ 92.05 RIDING ON FIRE DEPARTMENT APPARATUS.

No person other than a member of the Fire Department may mount or ride upon any fire engine, wagon, or apparatus before it leaves the station or while on its way to or from a fire or at any other time, except by permission of the driver or officer in command.
(1999 Code, § 92.05) Penalty, see § 92.99

§ 92.06 CONGREGATING AT FIRES.

It shall be unlawful for persons to congregate on the streets, sidewalks, or other areas adjacent to a fire so as to interfere with the operations of members of the Fire Department.
(1999 Code, § 92.06) Penalty, see § 92.99

§ 92.07 INSPECTION OF PREMISES FOR FIRE HAZARDS.

(A) As provided in G.S. § 58-79-20, the Fire Chief may enter into all buildings and premises during reasonable hours to inspect for combustible materials or inflammable conditions dangerous to the safety of such building or premises.

(B) When any officer making an inspection in accordance with division (A) of this section discovers combustible materials or inflammable conditions, he or she shall order the occupant or person in charge of the premises to remove or remedy such materials or conditions. Unless the person to whom the order is directed appeals to the State Commissioner of Insurance within 24 hours, as provided in G.S. § 58-79-20, the order shall be complied with forthwith.
(1999 Code, § 92.07)

§ 92.08 BLOCKING OR OBSTRUCTING EXITS.

(A) No person may block or obstruct (partially or totally) any fire escape, balcony, hallway, stairway, aisle, corridor, ramp, or other passageway or means of egress from any building, other than a single-family residence, during the hours such building is occupied.

(B) No person having control over any fire escape or other area listed in division (A) of this section may cause, suffer, or permit any such area to be blocked or obstructed (partially or totally) while the building to which these areas relate is occupied.

(C) No person may lock doors in means of egress against the path of exit travel when the building served by the means of egress is occupied.
(1999 Code, § 92.08) Penalty, see § 92.99

§ 92.09 MARKING AND LIGHTING OF EXITS.

(A) In rooms accommodating or designed to accommodate more than 50 persons, doorways (other than those normally used for entrance or clearly visible from all points in the room) shall be marked by exit signs approved by the Fire Chief that are sufficiently illuminated to be readily visible when the room or space is occupied.

(B) Where the exit doorways are not visible from all locations in public corridors, directional signs approved by the Fire Chief, pursuant to uniform standards, shall be placed on walls or otherwise displayed in conspicuous locations to direct occupants to exit doorways.

(C) Fire escapes, stairways, hallways, and other means of egress shall be adequately lighted (not less than one footcandle on walking surfaces) at all times that the building served thereby is occupied.
(1999 Code, § 92.09) Penalty, see § 92.99

§ 92.10 MAXIMUM OCCUPANCY OF ROOMS.

(A) All rooms accommodating or designed to accommodate 50 or more persons shall be posted with a legible sign, conspicuously located, stating the maximum number of persons permitted in that room.

(B) The owner or other person having control of the assembly of persons in any room where a sign is posted pursuant to division (A) of this section shall prevent occupancy of that room by more people than is authorized.

(C) The number of permitted occupants shall be determined by the Fire Chief, pursuant to uniform standards.
(1999 Code, § 92.10) Penalty, see § 92.99

§ 92.11 FIRE EXTINGUISHERS REQUIRED IN NONRESIDENTIAL PREMISES.

The owner or other person in charge of all premises used for nonresidential purposes shall install sufficient portable fire extinguishers, of a kind and in locations prescribed by the Fire Chief, to afford reasonable protection to persons and property.
(1999 Code, § 92.11) Penalty, see § 92.99

§ 92.12 OPEN BURNING.

(A) Except as provided in division (D) of this section, no person may burn or cause to be burned any material outside of a building without a permit issued by the Fire Chief.

(B) The Fire Chief shall issue the permit, authorizing the named applicant to burn specified materials at a designated location on a specified date, if he or she finds that the applicant will comply with the requirements of division (C) of this section and that no atmospheric conditions or other local circumstances exist that would make the requested burning hazardous.

(C) Burning shall be permitted only on property owned or occupied by the person doing the burning, or his or her agent, and only in accordance with the terms of the permit. Burning shall not be allowed within 50 feet of any structure, except as provided in division (D) of this section. No outside burning shall be allowed within the primary fire district. Outdoor fires shall be constantly attended, and the person in charge shall have a garden hose or other fire extinguishing equipment readily available for use.

(D) Outdoor burning of trash, leaves, grass, and the like on property owned or occupied by the person doing the burning is permissible without a permit if done within a container approved by the Fire Chief, so long as the container is located not less than 15 feet from any structure.

(E) Nothing in this section shall relieve any person of the requirements of any other provision of law governing outdoor burning or pollution from burning.
(1999 Code, § 92.12) Penalty, see § 92.99

§ 92.99 PENALTY.

(A) A violation of any of the following sections shall constitute a misdemeanor punishable by a fine of not more than $25 or imprisonment for not more than 30 days, or both: §§ 92.05, 92.06, or 92.08 through 92.12.

(B) A violation of any of the sections listed in division (A) of this section shall also subject the offender to a civil penalty of $25. If a person fails to pay this penalty within ten days after being cited for a violation, the town may seek to recover the penalty by filing a civil action in the nature of debt.

(C) The town may seek to enforce this chapter through any appropriate equitable action.

(D) Each day that a violation continues after the offender has been notified of the violation shall constitute a separate offense.

(E) The town may seek to enforce this chapter by using any one or any combination of the remedies set out in this section.
(1999 Code, § 92.99)

CHAPTER 93: NUISANCES

Section

93.01 Definitions
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§ 93.01 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

ABATEMENT. The removal, stoppage, prostration, or destruction of that which causes or constitutes a nuisance, whether by breaking or pulling it down, or otherwise destroying, or effacing it.

OWNER. The owner of record or any person with legal, financial, or equitable interest in the property on which the alleged public nuisance exists at the time of the violation.

PROPERTY. Any real property, premises, structure, or location on which a public nuisance is alleged to exist.

PUBLIC NUISANCE. Any fence, wall, shed, deck, house, garage, building, structure, or any part of any of the aforesaid; or any tree, pole, smokestack; or any excavation, hole, pit, basement, cellar, sidewalk subspace, dock, wharf, or landing dock; or any lot, land, yard, premises, or location which

in its entirety, or in any part thereof, by reason of the condition in which the same is found or permitted to be or remain, shall or may endanger the health, safety, life, limb, or property, or cause any hurt, harm, inconvenience, discomfort, damage, or injury to any one or more individuals in the town, in any one or more of the following particulars:

(1) By reason of being a menace, threat, and/or hazard to the general health and safety of the community;

(2) By reason of being a fire hazard;

(3) By reason of being unsafe for occupancy, or use on, in, upon, about, or around the aforesaid property; and/or

(4) By reason of lack of sufficient or adequate maintenance of the property, and/or being vacant, any of which depreciates the enjoyment and use of the property in the immediate vicinity to such an extent that it is harmful to the community in which such property is situated or such condition exists.

SUMMARY ABATEMENT. Abatement of the nuisance by the town, or a contractor employed by the town, by removal, repair, or other acts without notice to the owner, agent, or occupant of the property except for the notice required by this chapter.
(1999 Code, § 93.01)

§ 93.02 SUMMARY ABATEMENT.

(A) (1) Whenever a complaint is made to the Public Works Department of the existence of a public nuisance, as defined in § 93.01, the Public Works Department shall promptly cause to be inspected the property on which it is alleged that such public nuisance exists. Should the Public Works Department find that a public nuisance exists and that the public health, safety, or welfare may be in immediate danger, then summary abatement procedures shall be implemented and the Public Works Department may cause the nuisance to be removed or abated. The Public Works Department may notify the town if the public nuisance involves a building that appears structurally unsafe.

(2) The town, upon being notified by the Public Works Department, shall cause the building on which it is alleged such public nuisance exists to be inspected and submit a written report of such inspection and the findings to the Public Works Department.

(B) When summary abatement is authorized, notice to the owner, agent, or occupant of the property is not required. Following summary abatement, the Public Works Department shall cause to be posted on the property liable for the abatement a notice describing the action taken to abate the nuisance.
(1999 Code, § 93.02)

§ 93.03 ABATEMENT IN OTHER CASES; NOTICE AND THE LIKE.

(A) If, after inspecting the property on which the nuisance is reported, the Public Works Department declares the existence of a public nuisance, but the nature thereof is not such as to require the summary abatement of such nuisance, then regular abatement procedures shall be followed. Photographs and reports of the findings and inspections shall be made and filed with the Public Works Department.

(B) The Public Works Department shall determine the individual, firm, or corporation who appears to be the titled owner of the aforesaid property and immediately cause a written notice to be served on such individual, firm, or corporation by personal service or by leaving a copy of the notice at the usual place of residence or business of such owner, or address of such owner, or by copy mailed to such owner at such place or address by United States certified mail return receipt. If service of such written notice is unable to be perfected by any of the methods described above, the Public Works Department shall cause a copy of the aforesaid notice to be published in a newspaper of general circulation in the town, once a week for two consecutive weeks, and shall further cause a copy of the aforesaid notice to be left with the individual, if any, in possession of such property on which it is alleged such public nuisance exists, or if there is no individual in possession thereof, the Public Works Department shall cause a copy of the notice to be posted at such structure, location, or premises. The Public Works Department shall also determine who the lienholder of the property, if any, is and cause a written notice to be served on such lienholder by United States mail return receipt.

(C) The aforesaid notice to the owner, and lienholder, if any, of the property shall state clearly and concisely the findings of the Public Works Department with respect to the existence of a public nuisance. The notice shall further state that unless the owner thereof shall cause the abatement of the public nuisance, pursuant to the orders contained in the Public Works Department's notice, the public nuisance shall be abated by the town at the expense of the owner.

(D) Any person who is the record owner of the premises, location, or structure at the time an order pursuant to this chapter is issued and served upon him or her, shall be responsible for complying with that order, and liable for any costs incurred by the town therewith, notwithstanding the fact that he or she conveys interests in the property to another after such order was issued and served.

(E) It shall not be a defense to the determination that a public nuisance exists that the property is boarded up or otherwise enclosed.
(1999 Code, § 93.03)

§ 93.04 ABATEMENT BY OWNER.

(A) Within 30 days after the posting and mailing of a notice to abate a nuisance, the owner, agent of the owner, or individual in possession of the affected property shall remove and abate such nuisance or show that no nuisance in fact exists. Such showing shall be made by filing a written statement that no nuisance exists. The statement shall be filed with the Public Works Department.

(B) The Public Works Department, upon written application by the owner within the 30-day period after the notice has been served, may grant additional time for the owner to effect the abatement of the public nuisance, provided that such extension is limited to a specific time period.
(1999 Code, § 93.04)

§ 93.05 APPEAL PROCEDURES; HEARING.

(A) The owner or occupant of the property who has been served with a notice pursuant to this chapter that a public nuisance exists and that it must be abated within 30 days, may, within seven calendar days after receipt of such notice, make a written demand to the Public Works Department for a hearing on the question of whether a public nuisance in fact exists. The hearing shall be held within seven calendar days following receipt by the Public Works Department of the written demand and at least two days' notice of the hearing shall be given to the individual who made the written demand for the hearing.

(B) The hearing shall be conducted by the Board of Commissioners. The Board may amend or modify the notice and/or order or extend the time for compliance with the Public Works Department's order by the owner by such date as the majority of the Board may determine.

(C) The owner, agent of the owner, occupant, and lienholder, if any, of the subject property shall be given the opportunity to present evidence to the Board in the course of the hearing.

(D) In those instances where the nuisance has been abated by the town, the Board shall have discretion to waive the cost of abating a nuisance, in whole or in part, if, in the course of the hearing reviewing the decision, the Board finds that any of the following did not conform to the provisions of this chapter:

(1) The notice to remove the nuisance;

(2) The work performed in abating the nuisance; or

(3) The computation of charges.
(1999 Code, § 93.05)

§ 93.06 ABATEMENT BY TOWN.

(A) Should any public nuisance not be abated at the expiration of time stated in the notice/order or within such additional time as the Public Works Department or Board of Commissioners may grant, the Public Works Department shall have the authority to enter upon the property and abate the public nuisance found thereon. In abating such nuisance, the Public Works Department may go to whatever extent may be necessary to complete the abatement of the public nuisance and should it be practicable

to salvage any material derived in the aforesaid abatement, the Public Works Department may sell the salvaged material at private or public sale at the best price obtainable and shall keep an accounting of the proceeds thereof.

(B) The proceeds, if any, obtained from the sale of any material salvaged as a result of an abatement of a public nuisance by the Public Works Department shall be deposited to the General Fund of the town and any deficit between the amount so received and the cost of the abatement may be levied as an assessment against the property in question by the Board of Commissioners and collected as any other assessment by the town; however, any other alternative collection method may be utilized by the town to recoup the deficit. Should the proceeds of the sale of such salvaged material exceed the cost of abatement, the surplus, if any, shall be paid to the owner of the property from which the public nuisance was abated when a proper claim to the excess is established.

(C) In abating a public nuisance, the Public Works Department may call upon any of the town departments or divisions for whatever assistance shall be deemed necessary or may by private contract cause the abatement of the public nuisance.

(D) The Public Works Department shall, after completing the removal and abatement, file a statement of costs with the Town Auditor.
(1999 Code, § 93.06)

§ 93.07 NOTICE OF ASSESSMENT; APPEAL OF CHARGES.

(A) Upon receipt of the statement of costs from the Public Works Department, the Auditor shall mail to the owner of the property upon which the public nuisance has been abated notice of the amounts set forth in the statement plus an additional amount sufficient to defray the costs of the notice and stating that the town proposes to assess against the property the amount set forth in the notice and that objections to the proposed assessment must be made in writing and received by the Auditor within 20 days from the date of mailing such notice. Upon the expiration of the 20-day period, if no objections have been received by the Auditor, the Auditor shall enter that amount in the town liens docket which shall therefore constitute a lien against the property.

(B) If objections of either the property owner or his or her representative are received by the Auditor prior to the expiration of the 20-day period, the Auditor shall refer the matter to the Public Works Department for administrative review.

(C) Upon conclusion of administrative review, the Public Works Department shall make a written determination that the amount of the charges shall be canceled, reduced, or remain the same. A copy of this determination shall be furnished to the person making the objections together with a notice of such person's right to appeal to the Board of Commissioners.

(D) If no appeal of a determination by the Public Works Department is filed within the time period allowed, a copy of the determination will be furnished to the Auditor who shall then enter a lien in the amount determined by the Public Works Department in the town liens docket as provided in division (A) of this section.

(E) If a timely appeal is received by the Board of Commissioners, a hearing shall be scheduled and held on the matter.

(1) If, after the hearing, the Board determines that the proposed assessment does not comply with division (G) herein, the Board shall so certify to the Auditor and the proposed assessment shall be canceled.

(2) If, after the hearing, it is determined that the proposed assessment or any part of it is proper and authorized, the Board shall so certify to the Auditor who shall enter a lien in such amount as determined appropriate by the Board, in the lien docket as provided in division (A) of this section.

(F) The determination of the Board is a final administrative decision.

(G) (1) The Public Works Department, in administrative review, or the Board, on appeal, may reduce or cancel a proposed assessment if it is determined that:

(a) Any of the following did not conform to the provisions of this chapter:

1. The notice to remove the nuisance;

2. The work performed in abating the nuisance; or

3. The computation of charges.

(b) The owner of the property was eligible for a waiver of costs under § 93.09.

(2) The Public Works Department, in administrative review, or the Board, on appeal, may reduce a proposed assessment by eliminating the civil penalty portion of the invoice if it is determined that:

(a) The current owner was not in possession of the property at the time the notice required in § 93.03 was posted; or

(b) The owner did not receive the notice to remove the nuisance, did not have knowledge of the nuisance and could not, with the exercise of reasonable diligence, have had such knowledge.

(H) If, after a lien has been entered in the docket of town liens, there is a written request of an owner who alleges that the owner did not receive notice of the proposed assessment, the Auditor shall refer the matter for review pursuant to division (B) of this section.

(I) The lien may be canceled or reduced by the Public Works Department, in administrative review, or the Board, on appeal, if it is determined that the owner did not receive notice of the proposed assessment, did not previously have knowledge of the lien or of the nuisance abatement work constituting the basis of the lien, could not, in the exercise of reasonable care or diligence, have had such knowledge, and in addition, that the circumstances are such that a reduction or cancellation of the charges would have been appropriate had the matter been reviewed pursuant to this section prior to assessment. Upon receipt of a certification from the Board, pursuant to division (E) of this section, the Auditor shall cancel or reduce the lien if required by the determination of the Public Works Department and/or Board.
(1999 Code, § 93.07)

§ 93.08 PERSONAL LIABILITY OF OWNER.

The person who is the owner of the property at the time at which the notice required under § 93.03 of this chapter is posted shall be personally liable for the amount of the assessment including all interest, civil penalties, and other charges.
(1999 Code, § 93.08)

§ 93.09 COST OF ABATEMENT; LOW INCOME AND ELDERLY PERSONS.

(A) Notwithstanding the other provisions of this chapter, the cost of abating a nuisance shall be waived for low income and elderly persons, if upon application it appears to the Public Works Department that the conditions set forth in division (B) of this section are met.

(B) To be eligible for waiver of nuisance abatement costs a person must:

(1) Be classified as "low income," as defined by the Public Works Department; or

(2) Be more than 65 years of age and:

(a) A person living alone, whose total income for the preceding calendar year did not exceed one and one-half times the maximum amount a Social Security recipient at age 65 may have earned in that year without having any benefits withheld; or

(b) The head of a household which household received a total income for the preceding calendar year that did not exceed two and one-quarter times the maximum amount a Social Security recipient at age 65 may have earned in that year without having any benefits withheld.

(C) Additionally, all persons wishing to qualify for waiver of nuisance abatement costs must:

(1) Furnish proof of the age and/or income requirements as set forth above in the manner and form designated by the Public Works Department;

(2) Own, or be in the process of purchasing, the property from which the nuisance is abated; and

(3) Be living on the property from which the nuisance is abated.

(D) The removal of the nuisance in question must have been required by the Public Works Department and the person requesting the waiver of costs must have been officially notified by the Public Works Department to remove the nuisance.

(E) Applications for waiver of nuisance abatement costs shall be filed with the Public Works Department, on forms supplied by the town, within ten days after receipt of a notice to remove a nuisance or a work order notice unless the Public Works Department extends the time for good cause shown. All information required to be given on such form shall be supplied and verified by the applicant.

(F) The maximum amount that may be waived under this section for any one parcel of real property or any one person shall be $500 per calendar year.

(G) No overhead charge or civil penalty shall be imposed for any real property for which a waiver, pursuant to this section, shall have been approved.
(1999 Code, § 93.09)

§ 93.10 OVERHEAD CHARGE; CIVIL PENALTIES.

(A) Whenever a nuisance is abated by the town, the Public Works Department shall keep an accurate account of all expenses incurred, including an overhead charge of 25% for administration and a civil penalty of $200 for each nuisance abated.

(B) When the town has abated a nuisance maintained by any owner of real property, for each subsequent nuisance that is abated by the town within two consecutive calendar years concerning real property, owned by the same person, an additional civil penalty of 50%, minimum of $50, of the cost of abatement shall be added to the costs, charges, and civil penalties provided for in division (A). The civil penalty shall be imposed without regard to whether the nuisances abated by the town involve the same real property or are of the same character.
(1999 Code, § 93.10)

§ 93.11 VEGETATION.

(A) General provisions.

(1) It shall be unlawful for any owner, lessee, or occupant or any agent, servant, representative, or employee of any such owner, lessee, or occupant having control of any lot or land or any part thereof in the town to permit or maintain on any such lot or land or on or along the sidewalk, street, or alley adjacent to the lot or land between the property line and the curb or middle of the alley or for ten feet outside the property line, if there is no curb, any growth of weeds, grass, or other rank vegetation to a greater height than eight inches, on the average, or any accumulation of dead weeds, grass, or brush.

(2) It shall be unlawful for any such person to cause, suffer, or allow poison ivy, ragweed, or other poisonous plants or plants detrimental to health to grow on any such lot or land in such manner that any part of such ivy, ragweed, or other poisonous or harmful weed shall extend upon, cover, overhang, or border any public place or to allow seed, pollen, or other poisonous particles or emanations therefrom to be carried through the air into any public place.

(B) *Duty of owner or occupant of property.* It shall be the duty of any owner, lessee, or occupant of any lot or land to cut and remove or cause to be cut and removed all weeds, grass, or other rank, poisonous or harmful vegetation as often as may be necessary to comply with the provisions of this section.

(C) *Notice upon failure of owner to abate.* If the provisions of this section are not complied with, a person designated by the Town Manager shall serve written notice upon the owner, lessee, or occupant or any person having care and control of any such lot or land to comply therewith.

(D) *Abatement by town.* If the person upon whom the notice provided for in this section is served fails, neglects, or refuses to cut and remove or to cause to be cut and removed such weeds, grass, or other vegetation within ten days after receipt of such notice or if no person can be found in the town who either is or claims to be the owner of such lot or land or who either represents or claims to represent such owner, the person designated by the Town Manager may cause such weeds, grass, or other vegetation to be cut and removed.

(E) *Recovery of town's cost of abatement.* The actual cost of the cutting and removing of weeds, grass, or other vegetation by the town, plus $50 for inspection and other additional costs in connection therewith, shall be certified by the person designated by the Town Manager to the County Tax Collector and shall thereupon become and be a lien upon the property upon which such weeds, grass, and other vegetation were located and shall be added to and become and form a part of the taxes next to be assessed and levied upon such lot or land and shall bear interest at the same rate as taxes and shall be collected and enforced by the same officer and in the same manner as taxes as provided for in G.S. §§ 105-374 and 105-375. Interest shall accrue at 0.5% per month or fraction thereof from the date of completion of

the work if the bill is not paid within 30 days after completion. A lien shall attach as of the date of completion of the work and shall be settled or paid before any unpaid taxes or taxes of subsequent levies. (Ord. passed 8-25-2014) Penalty, see § 93.99

§ 93.12 LOUD AND DISTURBING NOISE.

(A) *Prohibition.* Subject to the provisions of this section, the creation of any unreasonably loud and disturbing noise in the town is prohibited. Noise of such character, intensity, and duration as to be detrimental to the health, safety, or welfare of any individual is prohibited.

(B) *Prohibited acts.* The following acts, among others, are declared to be loud and disturbing noises in violation of this section, but such enumeration shall not be deemed to be exclusive:

(1) The use of any loud, boisterous, or raucous language or shouting so as to annoy or disturb the quiet, comfort, or repose of any reasonable person of ordinary sensibilities in the vicinity;

(2) The sounding of any horn or signal device on any automobile, motorcycle, bus, or other vehicle while not in motion, except as a danger signal if another vehicle is approaching apparently out of control, or if in motion only as a danger signal; the creation by means of any such signal device of any unreasonably loud or harsh sound; and the sounding of such device for an unreasonable period of time;

(3) The playing of any radio, phonograph, musical instrument, or sound production or amplifying equipment in such manner or with such volume, particularly during hours between 11:00 p.m. and 7:00 a.m., as to annoy or disturb the quiet, comfort, or repose of any reasonable person of ordinary sensibilities in any dwelling, hotel, or other type of residence in the vicinity;

(4) The keeping of any animal which, by causing frequent or long continued noise, shall disturb the comfort and repose of any reasonable person of ordinary sensibilities in the vicinity; and

(5) The use of any automobile, motorcycle, or other vehicle so out of repair, so loaded, or in such manner as to create loud grating, grinding, rattling, or other noise.

(C) *Noise limit.* No person shall cause, allow, or permit the operating or playing of any radio, tape player, or similar device that reproduces or amplifies sound in such a manner as to create noise at 100 feet from the device or vehicle containing that device when the device or vehicle is being operated in or on a public right-of-way or public space.

(D) *Exception.* This section shall not apply to town-sponsored or sanctioned events.
(Ord. passed - -) Penalty, see § 93.99

Statutory reference:

Authority to regulate, restrict, or prohibit noise, see G.S. § 153A-133

§ 93.99 PENALTY.

(A) *General.* A violation of this chapter for which no other penalty is provided shall be subject to penalties as provided in § 10.99.

(B) *Noise.* A violation of § 93.12, or any part thereof, shall constitute a misdemeanor and shall subject the offender to a fine of not more than $500 or imprisonment for not more than 30 days.
(Ord. passed - -)

CHAPTER 94: STREETS AND SIDEWALKS

Section

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GENERAL PROVISIONS

§ 94.01 ADMINISTRATOR DEFINED.

As used in this chapter, the term ***ADMINISTRATOR*** refers to the Public Works Director or any other person designated by the Town Manager to perform the responsibilities assigned to the Administrator by this chapter.
(1999 Code, § 94.01)

§ 94.02 DAMAGING STREET SURFACES, STREET SIGNS, OTHER FACILITIES.

(A) No person may intentionally mutilate, deface, remove, damage, or in any manner interfere with any of the street name signs, traffic-control signs and devices, and other signs erected by any public body.

(B) No person may drag, run, or cause to be dragged or run upon any public street any harrow or other implement, machine, or tool likely to injure or cut the surface of such street.

(C) No person may intentionally damage, injure, obstruct, or otherwise interfere with any street, sidewalk, bridge, culvert, ditch, or drain owned or maintained by the town.
(1999 Code, § 94.02) Penalty, see § 94.99

§ 94.03 HOUSE AND BUILDING NUMBERS.

The owner of every house and every principal building shall display or cause to be displayed on the front thereof, or on the grounds in a position easily observed from the street, the number assigned to his or her house or building by the Administrator. No person may display or cause to be displayed on any house or building any number other than the number assigned by the Administrator. No person may remove, obliterate, or destroy any number displayed in accordance with division (A) of this section.
(1999 Code, § 94.03) Penalty, see § 94.99

OBSTRUCTIONS

§ 94.15 OBSTRUCTIONS PROHIBITED.

(A) Except as otherwise authorized by statute or ordinance including §§ 94.30 and 94.31 and except to the extent required by the performance of some function authorized or mandated by a statute or

ordinance, no person may obstruct or impede travel in the public streets or sidewalks within the town by placing or leaving any object within the traveled portion of the public right-of-way.

(B) The prohibition of division (A) of this section applies but is not limited to goods, wares, or merchandise displayed for sale.

(C) Division (A) of this section shall not apply to temporary obstructions caused by persons engaged in construction work on abutting property when proper warning devices are maintained in accordance with § 94.18.
(1999 Code, § 94.15) Penalty, see § 94.99
Statutory reference:
Keeping streets, sidewalks, and the like free from unnecessary obstructions, see G.S. § 160A-296(a)(2)

§ 94.16 OVERHANGING OR PROTRUDING TREES, SHRUBS, FENCES, AND THE LIKE.

(A) No person may cause or allow (from property under his or her control) any tree limb, bush, shrub, or other growth or any trellis, fence, or other obstruction to overhang a public street at a distance of less than 12 feet above the traveled portion of such street or a public sidewalk at a distance of less than seven feet above such sidewalk.

(B) No person may cause or allow grass, vines, weeds, or other vegetation to grow from property under his or her control over, onto, or across any public street or sidewalk.

(C) Any violation of division (A) or (B) of this section is declared to be a public nuisance, and if not corrected by the responsible person within three days after the person is notified of the violation by the Administrator, the town may summarily abate such nuisance as provided in § 93.02.
(1999 Code, § 94.16) Penalty, see § 94.99

§ 94.17 DRAINAGE-RELATED INTERFERENCE WITH SIDEWALKS.

(A) No person may cause or permit gutters, ditches, ducts, or drain pipes to be constructed or placed on property under his or her control in such a manner that the water from such gutters, ditches, ducts, or drain pipes empties onto or runs across a public sidewalk.

(B) All owners of property abutting concrete, brick, or other permanently improved public sidewalks shall grade such property or construct a retaining wall in such a manner as to prevent the washing of dirt, grass, gravel, or other material upon the town sidewalks.
(1999 Code, § 94.17) Penalty, see § 94.99

§ 94.18 BARRICADES AND WARNING DEVICES.

All persons engaged in doing work that creates any dangerous condition or obstruction in the public right-of-way of any street or sidewalk shall take whatever action is necessary, including the placement of barricades and warning signs or devices, to warn the traveling public of the condition or obstruction. No person may remove, destroy, injure, or tamper with any barricade, sign, lantern, torch, or other device placed in any street or sidewalk to warn or give notice to the traveling public of any dangerous condition or obstruction.
(1999 Code, § 94.18) Penalty, see § 94.99

DRIVEWAYS AND EXCAVATIONS

§ 94.30 DRIVEWAYS.

(A) Except as otherwise provided in this section, no person may open, construct, alter, or relocate any driveway across any public sidewalk or into any street, or cut any curb for such purpose, without having obtained a written permit from the Administrator.

(B) Any person who receives a permit under this section shall be responsible for repairing any damage to the sidewalk or street (including curb and gutter) caused by the driveway construction.

(C) The Administrator shall review the driveway construction and design plans and shall issue the permit unless he or she finds the driveway, if constructed as proposed, will substantially interfere with or pose a danger to persons using the street or sidewalk intersected by the driveway, or to public facilities (including utility poles, traffic signal standards, and the like), or will fail to comply with any of the provisions of this section.

(D) No driveway may be constructed closer than three feet to a fire hydrant or catch basin or closer than 30 feet to the right-of-way line of a street that intersects with the street the driveway opens onto.

(E) If the driveway crosses a drainage ditch on a lot that abuts a street without curb or gutter, then piping of sufficient size and strength (as approved by the Administrator) shall be installed beneath the driveway surface so that the drainage capability of the drainage ditch is not materially impaired.

(F) This section shall not apply to driveways that open into state-maintained streets to the extent that the state has approved the driveway, nor shall a person be required to obtain a permit under this section to the extent that the driveway is being constructed in accordance with plans approved pursuant to a review process authorized by a zoning or subdivision ordinance.
(1999 Code, § 94.30) Penalty, see § 94.99
Statutory reference:
Excavations, placing pipes, and the like, see G.S. § 160A-296

§ 94.31 EXCAVATIONS.

(A) Except as otherwise provided in this section, no person may dig in or excavate any street or sidewalk within the town without having obtained a written permit from the Administrator.

(B) Any person who receives a permit in accordance with this section shall be responsible for putting the street or sidewalk where any excavation is made in as good a condition as it was prior to the excavation.

(C) Before granting a permit pursuant to this section, the Administrator shall determine that the applicant has made arrangements to comply with division (B) of this section, and if the town is to do the necessary repair work, the permit shall not be issued until the applicant makes a deposit equal to the estimated costs of repair.

(D) This section shall not apply to any utility to the extent that the same subject matter is covered in a franchise ordinance applicable to that utility, nor shall this section apply to any excavation made in a state-maintained street to the extent that the state has given its permission for such an excavation to be made, except that the person making the excavation shall still be responsible for notifying the Administrator of the intended excavation 48 hours before the work begins.
(1999 Code, § 94.31) Penalty, see § 94.99

§ 94.32 INDEMNIFICATION OF TOWN.

Any person obtaining a permit authorized by §§ 94.30 and 94.31 agrees as a condition of the permit to indemnify the town for and hold the town harmless from any expense including but not limited to attorneys' fees, litigation costs, and judgments incurred as a result of claims made for damages arising out of operations conducted by the permit recipient pursuant to the permit.
(1999 Code, § 94.32) Penalty, see § 94.99

STREET EVENT PERMITS

§ 94.45 APPLICATION OF SUBCHAPTER.

This subchapter applies to all street fairs, festivals, carnivals, parades, marches, rallies, demonstrations, and other activities or public events that require the temporary closing or obstruction of all or a portion of any street or other public right-of-way or that substantially hinder or prevent the normal flow of vehicular or pedestrian traffic along any street or other public right-of-way. Any such activity covered by this subchapter shall be referred to herein as "the event." The requirements of this subchapter shall not apply to town-sponsored events.
(Ord. passed - -)

§ 94.46 PERMIT REQUIRED.

No person may run, operate, or sponsor any event in any public street or right-of-way without a permit obtained from the Board of Commissioners in accordance with this subchapter.
(Ord. passed - -) Penalty, see § 94.99
Cross-reference:
Permit fee, see § 94.50

§ 94.47 APPLICATION.

Application for the permit authorized by this subchapter shall be submitted in writing to the Administrator at least 45 days prior to the start of the planned event and shall contain the following information:

(A) Name, address, and telephone number of the person, organization, or entity seeking to conduct or sponsor the event;

(B) Name, address, and telephone number of the individual in charge of the event;

(C) The proposed date and time period when the event will be conducted;

(D) A sketch map showing:

(1) The area where the event is to take place;

(2) Any streets to be closed or obstructed;

(3) Any barriers or traffic-control devices to be erected;

(4) The location of any concession stand, booth, or other temporary structures or facilities; and

(5) The location of proposed fences, stands, platforms, benches, or bleachers.

(E) The approximate number of people expected to attend the event;

(F) Sufficient proof of liability insurance in accordance with § 94.49;

(G) A description of the security and traffic control plan;

(H) A petition signed by all residents of the section of street to be closed whereby all residents agree to the street closing; and

(I) Any other information determined by the Administrator to be necessary to ensure compliance with this subchapter.
(Ord. passed - -)

§ 94.48 STAFF REVIEW.

Upon receipt of the permit application under this subchapter, the Administrator shall circulate it to the Sheriff's Department, the Fire Chief, the Public Works Director, and other appropriate persons for their comment. The Administrator may arrange to have a conference on the application with the applicant and one or more department heads.
(Ord. passed - -)

§ 94.49 INSURANCE.

Before a special event permit is issued under the provisions of this chapter, the entity that will actually conduct the activity for which the permit is sought shall give evidence of liability insurance of not less than $1,000,000 and further evidence that this liability insurance shall also afford coverage to the sponsoring entity for the specified event.
(Ord. passed - -)

§ 94.50 PERMIT FEE.

The permit fee is $50.
(Ord. passed - -)

§ 94.51 STANDARDS FOR ISSUANCE.

(A) The Board of Commissioners shall issue the permit authorizing the event unless it finds that:

(1) The event will interfere with the movement of emergency vehicles to such an extent that adequate police, fire, or other emergency services cannot be provided throughout the town;

(2) The applicant has failed to obtain any necessary permits or licenses, including any required building permit or privilege, or the applicant is otherwise in violation of any town ordinance;

(3) The event will work a severe hardship on persons occupying property adjacent to the site, location, or route of the event as a result of the denial of access to property or for other substantial reasons;

(4) The event, if held at the time or at the location or along the route proposed, will cause an unreasonable and unwarranted disruption to vehicular or pedestrian traffic; or

(5) The applicant has failed to comply with any of the provisions of this subchapter, including the payment of any fees required.

(B) If a permit is issued in accordance with division (A) of this section, the Board may attach to it any reasonable conditions.

(C) If the Board finds that it cannot issue the permit for reasons specified in division (A) of this section, it may request the applicant to modify its application to remove any objections to the issuance of the permit.

(D) Any event conducted pursuant to a permit issued under this section shall be conducted strictly in accordance with the terms of the permit, including any conditions attached hereto.
(Ord. passed - -) Penalty, see § 94.99

§ 94.52 STREET CLOSINGS.

(A) If the Board of Commissioners finds that the permit should be issued under this subchapter and that, to conduct the event, it is necessary to close a street or to reroute traffic, it may pass a resolution authorizing this to be done. No such resolution shall be passed affecting streets that are part of the state street system without the approval of the State Department of Transportation.

(B) The resolution shall identify the street or portion thereof to be affected and shall indicate the date and time when the street or portion thereof is to be closed or traffic thereon is to be limited in some way. The resolution shall also require that the applicant have appropriate traffic-control devices installed to give notice of the temporary traffic controls.

(C) No person may operate any vehicle contrary to the traffic-control devices installed in accordance with division (B) of this section.
(Ord. passed - -) Penalty, see § 94.99

§ 94.53 EVENT SPONSOR RESPONSIBLE FOR CLEANUP.

The sponsor of the event shall be responsible for cleaning up any litter caused by the event, for removing all temporary obstructions, and in general returning the area where the event takes place to the condition that existed prior to the event. The Board of Commissioners may require the sponsor to post a bond or other sufficient security to guarantee compliance with this section.
(Ord. passed - -) Penalty, see § 94.99

§ 94.99 PENALTY.

(A) A violation of any of the following sections shall constitute a misdemeanor punishable by a fine of not more than $50 or imprisonment for not more than 30 days, or both: §§ 94.02, 94.03, 94.15 through 94.18, 94.30 through 94.32, 94.46, 94.51(D), 94.52(C), and 94.53.

(B) A violation of any of the sections listed in this subchapter shall also subject the offender to a civil penalty of $25. If a person fails to pay this penalty within ten days after being cited for a violation, the town may seek to recover the penalty by filing a civil action in the nature of debt.

(C) The town may seek to enforce this chapter through any appropriate equitable action.

(D) Each day that a violation continues after the offender has been notified of the violation shall constitute a separate offense.

(E) The town may seek to enforce this chapter by using any one or any combination of the remedies set out in this section.
(1999 Code, § 94.99) (Ord. passed - -)

CHAPTER 95: MINIMUM HOUSING STANDARDS

Section

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Statutory reference:

Minimum housing standards, see G.S. §§ 160A-441 et seq.

GENERAL PROVISIONS

§ 95.01 FINDINGS; PURPOSE; AUTHORITY.

(A) Pursuant to G.S. § 160D-1201, it is hereby found and declared that there exist in the town dwellings which are unfit for human habitation due to dilapidation; defects increasing the hazards of fire, accidents, and other calamities; lack of ventilation, light, and sanitary facilities; and other conditions, and there exist abandoned structures which constitute health and safety hazards due to the attraction of insects, conditions creating fire hazards, dangerous conditions constituting a threat to children, and frequent use by vagrants, such that these dwellings and abandoned structures are detrimental to the health, safety, and morals and otherwise inimical to the welfare of the residents of the town.

(B) In order to protect the health, safety, and welfare of the residents of the town as authorized by G.S. § 160D it is the purpose of this chapter to establish minimum standards of fitness for the initial and continued occupancy of all buildings used for human habitation, and for all abandoned structures, as expressly authorized by G.S. § 160D-1201.
(Ord. passed - -)
Statutory reference:
Authority to adopt and enforce ordinances relating to dwellings that are unfit for human habitation, see G.S. § 160D-1201.

§ 95.02 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning.

BASEMENT. A portion of a building which is located partly underground, having direct access to light and air from windows located above the level of the adjoining ground.

BUILDING. *Any structure used or intended for supporting or sheltering any use or occupancy.*

CELLAR. A portion of a building located partly or wholly underground having an inadequate access to light and air from windows located partly or wholly below the level of the adjoining ground.

CODE ENFORCEMENT OFFICER. Any agent of the Code Enforcement Officer who is authorized by the Town Manager or his or her designee.

DETERIORATED. A dwelling is unfit for human habitation and can be repaired, altered, or improved to comply with all of the minimum standards established by this chapter, at a cost not in excess of 50% of its value, as determined by the finding of the inspector.

DILAPIDATED. A dwelling is unfit for human habitation and cannot be repaired, altered, or improved to comply with all of the minimum standards established by this chapter at a cost not in excess of 50% of its value, as determined by the finding of the inspector.

DWELLING. *A building that contains one or two dwelling units used, intended or designed to be used, rented, leased, let or hired out to be occupied for living purposes.*

DWELLING UNIT. *A single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.*

EXTERMINATION. The control and elimination of insects, rodents, or other pests by eliminating their harborage places; by removing or making inaccessible materials that may serve as their food; by poisoning, spraying, fumigating, trapping, or by any other recognized and legal pest elimination methods approved by the inspector.

GARBAGE. The animal and vegetable waste resulting from the handling, preparation, cooking, and consumption of food.

HABITABLE ROOM. A room or enclosed floor space used or intended to be used for living, sleeping, cooking, or eating purposes, excluding bathrooms, water closet compartments, laundries, heater rooms, foyers or communicating corridors, closets, and storage spaces.

INFESTATION. The presence, within or around a dwelling, of any insects, rodents, or other pests in such number as to constitute a menace to the health, safety, or welfare of the occupants or to the public.

MULTIPLE DWELLING. Any dwelling containing more than two dwelling units.

OCCUPANT. Any person over one year of age living, sleeping, cooking, or eating in or having actual possession of a dwelling unit or rooming unit.

OPERATOR. Any person who has charge, care, or control of a building or part thereof in which dwelling units or rooming units are let.

OWNER. Any person who alone or jointly or severally with others:

(1) Shall have title to any dwelling unit, with or without accompanying actual possession thereof;

(2) Shall have charge, care, or control of any dwelling or dwelling unit, as owner or agent of the owner or as executor, administrator, trustee, or guardian of the estate of the owner. Any such person thus representing the actual owner shall be bound to comply with the provisions of this chapter, and of rules and regulations adopted pursuant thereto, to the same extent as if he or she were the owner; or

(3) Is a mortgagee of record with respect to the property where such dwelling is located.

PARTIES IN INTEREST. All individuals, associations, and corporations who have interests of record in a dwelling and any who are in possession thereof.

PLUMBING. Includes all of the following supplied facilities and equipment: gas pipes, gas-burning equipment, water pipes, mechanical garbage disposal units (mechanical sink grinder), waste pipes, water closets, sinks, installed dishwashers, lavatories, bathtubs, shower baths, installed clothes-washing machines, catch basins, drains, vents, and any other similar supplied fixtures, together with all connections to water, sewer, or gas lines.

PUBLIC AUTHORITY. The Redevelopment Commission or any officer who is in charge of any department or branch of the government of the town or of the county or the state relating to health, fire, building regulations, or other activities concerning dwellings in the town.

ROOMING UNIT. Any room or group of rooms forming a single habitable unit used or intended to be used for living and sleeping, but not for cooking or eating purposes.

ROOMING HOUSE. Any dwelling or that part of any dwelling containing one or more rooming units in which space is let by the owner or operator to three or more persons who are not husband and wife, son or daughter, mother or father, or sister or brother of the owner or operator.

RUBBISH. Combustible and noncombustible waste materials, except garbage and ashes, and the word includes paper, rags, cartons, boxes, wood, excelsior, rubber, leather, tree branches, yard trimmings, tin cans, metals, mineral matter, glass crockery, and dust.

SLEEPING UNIT. *A room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities, but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.*

SUPPLIED. Paid for, furnished or provided by, or under the control of the owner or operator.

TEMPORARY HOUSING. Any tent, trailer, or other structure used for human shelter which is designed to be transportable and which is not attached to the ground, to another structure, or to any utilities system on the same premises for more than 30 consecutive days.

UNFIT FOR HUMAN HABITATION. Conditions exist in a dwelling which violate or do not comply with one or more of the minimum standards of fitness or one or more of the requirements established by this chapter.
(Ord. passed - -)

§ 95.03 RULES OF CONSTRUCTION.

Whenever the words ***DWELLING, DWELLING UNIT, ROOMING HOUSE, ROOMING UNIT,*** and ***PREMISES*** are used in this chapter, they shall be construed as though they were followed by the words “or any part thereof.”
(Ord. passed - -)

§ 95.04 APPLICABILITY.

This chapter shall be in full force and effect within the town and within the extraterritorial jurisdiction of the town as adopted and defined by the town pursuant to G.S. § 160A-360.
(Ord. passed - -)

§ 95.05 CONFLICT WITH OTHER PROVISIONS.

If any provision, standard, or requirement of this chapter is found to be in conflict with any provision of any other ordinance or code of the town, the provision which establishes the higher standard or more stringent requirement for the promotion and protection of the health and safety of the residents of the town shall prevail.
(Ord. passed - -)

MINIMUM STANDARDS

§ 95.15 COMPLIANCE.

(A) Every dwelling and dwelling unit used as a human habitation or held out for use as a human habitation shall comply with all of the minimum standards of fitness for human habitation. No person shall occupy as owner-occupant or let to another for occupancy or use as a human habitation any dwelling or dwelling unit which does not comply with all of the minimum standards of fitness for human habitation.

(B) The Clerk shall not provide nor permit another to provide either public or private utility services such as water, gas, electricity, sewer, and the like, to any dwelling unit found to be substandard under this chapter which becomes vacant until such dwelling unit has been inspected and brought into compliance with this chapter and the applicable building codes.
(Ord. passed - -) Penalty, see § 95.99

§ 95.16 RESPONSIBILITIES OF OWNERS AND OCCUPANTS.

(A) *Public areas.* Every owner of a dwelling containing two or more dwelling units shall be responsible for maintaining in a clean and sanitary condition the shared or public areas of the dwelling and premises thereof.

(B) *Cleanliness.* Every occupant of a dwelling or dwelling unit shall keep in a clean and sanitary condition that part of the dwelling, dwelling unit, and premises thereof which he or she occupies and controls.

(C) *Rubbish and garbage.* Every occupant of a dwelling or dwelling unit shall dispose of all his or her rubbish and garbage in a clean and sanitary manner by placing it in the supplied storage facilities. In all cases the owner shall be responsible for the availability of rubbish and garbage storage facilities.

(D) *Supplied plumbing fixtures.* Every occupant of a dwelling unit shall keep all supplied plumbing fixtures therein in a clean and sanitary condition and shall be responsible for the exercise of reasonable care in the proper use and operation of same.

(E) *Care of facilities, equipment, and structure.* No occupant shall willfully destroy, deface, or impair any of the facilities or equipment or any part of the structure of a dwelling or dwelling unit.
(Ord. passed - -) Penalty, see § 95.99

§ 95.17 STRUCTURAL CONDITIONS.

(A) Walls or partitions or supporting members, sills, joists, rafters, or other structural members shall not list, lean, or buckle and shall not be rotted, deteriorated, or damaged and shall not have holes or cracks which might admit rodents.

(B) Floors or roofs shall have adequate supporting members and strength to be reasonably safe for the purpose used.

(C) Foundations, foundation walls, piers, or other foundation supports shall not be deteriorated or damaged.

(D) Steps, stairs, landings, porches, or other parts or appurtenances shall be maintained in such condition that they will not fail or collapse.

(E) Adequate facilities for egress in case of fire or panic shall be provided.

(F) Interior walls and ceilings of all rooms, closets, and hallways shall be finished of suitable materials which will, by use of reasonable household methods, promote sanitation and cleanliness and shall be maintained in such a manner so as to enable the occupants to maintain reasonable privacy between various spaces.

(G) The roof, flashings, exterior walls, basement walls, floors, and all doors and windows exposed to the weather shall be constructed and maintained so as to be weathertight and watertight.

(H) There shall be no chimneys or parts thereof which are defective, deteriorated, or in danger of falling or in such condition or location as to constitute a fire hazard. There shall be no hanging chimneys or flues.

(I) There shall be no use of the ground for floors or wood floors on the ground.

(J) All minimum standards prescribed by the State Building Code and State Uniform Residential Building Code shall be complied with in all respects.
(Ord. passed - -) Penalty, see § 95.99

§ 95.18 BASIC EQUIPMENT AND FACILITIES.

(A) *Plumbing system.* The following are the minimum plumbing standards to meet the requirements of this chapter.

(1) Each dwelling unit shall be connected to a potable water supply and to the public sewer or other approved sewage disposal system.

(2) Each dwelling unit shall contain not less than a kitchen sink; lavatory, tub, or shower; water closet; and adequate supply of both cold water and hot water. All water shall be supplied through an approved pipe distribution system connected to a potable water supply.

(3) All plumbing fixtures shall meet the standards of the State Plumbing Code and shall be maintained in a state of good repair and in good working order.

(4) All required plumbing fixtures shall be located within the dwelling unit and be accessible to the occupants of same. The water closet and tub or shower shall be located in a room or rooms affording privacy to the user.

(B) *Heating system.* Every dwelling and dwelling unit shall have facilities for providing heat in accordance with the State Building Code.

(1) *Central and electric heating systems.* Every central or electric heating system shall be of sufficient capacity so as to heat all habitable rooms, bathrooms, and water closet compartments in every dwelling unit to which it is connected with a minimum temperature of 70°F measured at a point three feet above the floor during ordinary winter conditions.

(2) *Other heating facilities.* Where a central or electric heating system is not provided, each dwelling and dwelling unit shall be provided with sufficient fireplaces, chimneys, flues, or gas vents whereby heating appliances may be connected so as to heat all habitable rooms with a minimum temperature of 70°F measured three feet above the floor during ordinary winter conditions.

(C) *Electrical system.* The following are the minimum electrical standards to meet the requirements of this chapter.

(1) Every dwelling and dwelling unit shall be wired for electric lights and convenience receptacles. Every habitable room shall contain at least two floor or wall-type electric convenience receptacles, connected in such manner as determined by the State Electrical Code. There shall be installed in every kitchen, bedroom, bathroom, water closet room, laundry room, furnace room, corridor or hallway, and porch at least one supplied ceiling or wall-type electric light fixture. If wall or ceiling light fixtures are not provided in any habitable room, then each such habitable room shall contain at least three floor or wall-type electric convenience receptacles. The electrical system of every dwelling and dwelling unit shall comply with all requirements of the State Electrical Code.

(2) Every public hall and stairway in every multiple dwelling shall be adequately lighted by electric lights at all times when natural daylight is not sufficient.

(3) Every such outlet and fixture shall be properly installed, shall be maintained in good and safe working condition, and shall be connected to the source of electric power in a safe manner.
(Ord. passed - -) Penalty, see § 95.99

§ 95.19 VENTILATION.

(A) *General.* Every habitable room shall have at least one window or skylight facing directly tothe outdoors. The minimum total window area, measured between stops, for every habitable room shall be 10% of the floor area of such room. Whenever walls or other portions of structures face a window of any such room and such light-obstructing structures are located less than five feet from the window and extend to a level above that of the ceiling of the room, such a window shall not be deemed to face directly to the outdoors and shall not be included as contributing to the required minimum total window area. Whenever the only window in a room is a skylight-type window in the top of such room, the total window area of such skylight shall equal at least 15% of the total floor area of such room.

(B) *Habitable rooms.* Every habitable room shall have at least one window or skylight which can easily be opened or such other device as will adequately ventilate the room. The total openable window area in every habitable room shall be equal to at least 45% of the minimum window area size or minimum skylight-type window size as required or shall have other approved, equivalent ventilation.

(C) *Bathroom and water closet rooms.* Every bathroom and water closet compartment shall comply with the light and ventilation requirements for habitable rooms, except that no window or skylight shall be required in adequately ventilated bathrooms and water closet rooms equipped with an approved ventilation system.
(Ord. passed - -) Penalty, see § 95.99

§ 95.20 SPACE, USE, AND LOCATION.

(A) *Room sizes.* Every dwelling unit shall contain at least the minimum room size in each habitable room as required by the State Residential Building Code. Every dwelling unit shall contain at least 150 square feet of habitable floor area for the first occupant, at least 100 square feet of additional habitable area for each of the next three occupants, and at least 75 square feet of additional habitable floor area for each additional occupant. In every dwelling unit and in every rooming unit, every room occupied for sleeping purposes by one occupant shall contain at least 70 square feet of floor area, and every room occupied for sleeping purposes by more than one occupant shall contain at least 50 square feet of floor area for each occupant 12 years of age and over and at least 35 square feet of floor area for each occupant under 12 years of age.

(B) *Ceiling height.* At least one-half of the floor area of every habitable room shall have a ceiling height of not less than seven feet, six inches.

(C) *Floor area calculation.* Floor area shall be calculated on the basis of habitable room area. However, closet area and wall area within the dwelling unit may count for not more than 10% of the required habitable floor area. The floor area of any part of any room where the ceiling height is less than four and one-half feet shall not be considered as part of the floor area in computing the total area of the room to determine maximum permissible occupancy.

(D) *Cellar.* No cellar shall be used for living purposes.

(E) *Basements.* No basement shall be used for living purposes unless:

(1) The floor and walls are substantially watertight;

(2) The total window area, total openable window area, and ceiling height are equal to those required for habitable rooms; and

(3) The required minimum window area of every habitable room is entirely above the grade adjoining such window area, except where the window or windows face a stairwell, window well, or accessway.

(Ord. passed - -) Penalty, see § 95.99

§ 95.21 SAFE AND SANITARY MAINTENANCE.

(A) *Exterior foundation, walls, and roofs.* Every foundation wall, exterior wall, and exterior roof shall be substantially weathertight and rodentproof, shall be kept in sound condition and good repair, shall be capable of affording privacy, shall be safe to use and capable of supporting the load which normal use may cause to be placed thereon. Every exterior wall shall be protected with paint or other protective covering to prevent the entrance or penetration of moisture or the weather.

(B) *Interior floors, walls, and ceilings.* Every floor, interior wall, and ceiling shall be substantially rodentproof, shall be kept in sound condition and good repair, and shall be safe to use and capable of supporting the load which normal use may cause to be placed thereon.

(C) *Windows and doors.* Every window, exterior door, basement or cellar door, and hatchway shall be substantially weathertight, watertight, and rodentproof and shall be kept in sound working condition and good repair.

(D) *Stairs, porches, and appurtenances.* Every inside and outside stair, porch, and any appurtenance thereto shall be safe to use and capable of supporting the load that normal use may cause to be placed thereon and shall be kept in sound condition and good repair.

(E) *Bathroom floors.* Every bathroom floor surface and water closet compartment floor surface shall be constructed and maintained so as to be reasonably impervious to water and so as to permit such floor to be easily kept in a clean and sanitary condition.

(F) *Supplied facilities.* Every supplied facility, piece of equipment, or utility which is required under this chapter shall be so constructed or installed that it will function safely and effectively and shall be maintained in satisfactory working condition.

(G) *Drainage.* Every yard shall be properly graded so as to obtain thorough drainage and so as to prevent the accumulation of stagnant water.

(H) *Noxious weeds.* Every yard and all exterior property areas shall be kept free of species of weeds or plant growths which are noxious or detrimental to health.

(I) *Egress.* Every dwelling unit shall be provided with adequate means of egress as required by the State Building Code.
(Ord. passed - -) Penalty, see § 95.99

§ 95.22 CONTROL OF INSECTS, RODENTS, AND INFESTATIONS.

(A) *Screens.* In every dwelling unit, for protection against mosquitoes, flies, and other insects, every door opening directly from a dwelling unit to outdoor space shall have supplied and installed screens and a self-closing device, and every window or other device with openings to outdoor space used or intended to be used for ventilation shall likewise be supplied with screens installed.

(B) *Rodent control.* Every basement or cellar window used or intended to be used for ventilation and every other opening to a basement which might provide an entry for rodents shall be supplied with screens installed or such other approved device as will effectively prevent their entrance.

(C) *Infestation.* Every occupant of a dwelling containing a single dwelling unit shall be responsible for the extermination of any insects, rodents, or other pests therein or on the premises, and every occupant of a dwelling unit in a dwelling containing more than one dwelling unit shall be responsible for such extermination whenever his or her dwelling unit is the only one infested. Whenever infestation is caused by failure of the owner to maintain a dwelling in a rodentproof or reasonably insectproof condition, extermination shall be the responsibility of the owner. Whenever infestation exists in two or more of the dwelling units in any dwelling or in the shared or public parts of any dwelling containing two or more dwelling units, extermination shall be the responsibility of the owner.

(D) *Rubbish storage and disposal.* Every dwelling and every dwelling unit shall be supplied with approved containers and covers for storage of rubbish as required by town ordinance, and the owner, operator, or agent in control of such dwelling or dwelling unit shall be responsible for the removal of rubbish.

(E) *Garbage storage and disposal.* Every dwelling and every dwelling unit shall be supplied with an approved garbage disposal facility, which may be an adequate mechanical garbage disposal unit (mechanical sink grinder) in each dwelling unit or an incinerator unit, to be approved by the inspector, in the structure for the use of the occupants of each dwelling unit, or an approved outside garbage can as required by town ordinances.
(Ord. passed - -) Penalty, see § 95.99

§ 95.23 STANDARDS APPLICABLE TO ROOMING HOUSES; EXCEPTIONS.

All of the provisions of this chapter shall be applicable to roominghouses and to every person who operates a roominghouse or who occupies or lets to another for occupancy any rooming unit in any roominghouse, except as follows.

(A) *Water closet, hand lavatory, and bath facilities.* At least one water closet, lavatory basin, and bathtub or shower, properly connected to an approved water and sewer system and in good working condition, shall be supplied for each four rooms within a roominghouse wherever the facilities are shared. All such facilities shall be located within the residence building served and shall be directly accessible from a common hall or passageway and shall be not more than one story removed from any of the persons sharing such facilities. Every lavatory basin and bathtub or shower shall be supplied with hot and cold water at all times. Such required facilities shall not be located in a cellar.

(B) *Minimum floor area for sleeping purposes.* Every room occupied for sleeping purposes by one occupant shall contain at least 70 square feet of floor area, and every room occupied for sleeping purposes by more than one occupant shall contain at least 50 square feet of floor area for each occupant 12 years of age and over and at least 35 square feet of floor area for each occupant under 12 years of age.

(C) *Sanitary conditions.* The operator of every roominghouse shall be responsible for the sanitary maintenance of all walls, floors, and ceilings and for the sanitary maintenance of every other part of the roominghouse, and he or she shall be further responsible for the sanitary maintenance of the entire premises where the entire structure or building within which the roominghouse is contained is leased or occupied by the operator.

(D) *Sanitary facilities.* Every water closet, flush urinal, lavatory basin, and bathtub or shower required by division (A) of this section shall be located within the roominghouse and within a room or rooms which afford privacy and are separate from the habitable rooms and which are accessible from a common hall and without going outside the roominghouse or through any other room therein.
(Ord. passed - -) Penalty, see § 95.99

§ 95.24 APPLICABILITY TO ABANDONED STRUCTURES.

The procedures and minimum standards for the regulation of dwellings and dwelling units set out in this chapter shall apply to abandoned structures in the town, except that abandoned structures are not required to meet minimum standards that are uniquely applicable to occupied dwellings and dwelling units, such as standards for heating systems and minimum room sizes.
(Ord. passed - -)

ENFORCEMENT

§ 95.35 POWERS AND DUTIES OF THE CODE ENFORCEMENT OFFICER.

(A) *Duties.* The Code Enforcement Officer, as appointed by the Town Manager, is hereby designated as the officer to enforce the provisions of this chapter and to exercise the duties and powers prescribed. It shall be the duty of the Code Enforcement Officer to:

(1) Investigate the dwelling conditions and to inspect dwellings and dwelling units located in the town in order to determine which dwellings and dwelling units are unfit for human habitation and for the purpose of carrying out the objectives of this chapter with respect to such dwellings and dwelling units;

(2) Take such action, together with other appropriate departments and agencies, public and private, as may be necessary to effect rehabilitation of housing which is deteriorated;

(3) Keep a record of the results of inspections made under this chapter and an inventory of those dwellings that do not meet the minimum standards of fitness prescribed in this chapter; and

(4) Perform such other duties as may be prescribed in this chapter.

(B) *Powers.* The Code Enforcement Officer is authorized to exercise such powers as may be necessary or convenient to carry out and effectuate the purpose and provisions of this chapter, including the powers, in addition to others granted, to:

(1) Investigate the dwelling conditions in the town in order to determine which dwellings therein are unfit for human habitation;

(2) Administer oaths and affirmations, examine witnesses, and receive evidence;

(3) Enter upon premises, subject to constitutional limitations, for the purpose of making examinations and inspections; provided such entries shall be made in such manner as to cause the least possible inconvenience to the persons in possession; and

(4) Appoint and fix the duties of such officers, agents, and employees as he or she deems necessary to carry out the purposes of this chapter.
(Ord. passed - -)

§ 95.36 INSPECTIONS; RIGHT OF ENTRY FOR MAKING REPAIRS OR ALTERATIONS.

(A) Subject to constitutional limitations, for the purpose of making inspections, the Code Enforcement Officer is hereby authorized to enter, examine, and survey at all reasonable times all dwellings, dwelling units, rooming units, and premises. The owner or occupant of every dwelling, dwelling unit, or rooming unit or the person in charge thereof shall give the Code Enforcement Officer free access to such dwelling, dwelling unit, or rooming unit and its premises at all reasonable times for the purposes of such inspection, examination, and survey.

(B) Subject to constitutional limitations, every occupant of a dwelling or dwelling unit shall give the owner thereof or his or her agent or employee access to any part of such dwelling or dwelling unit and its premises at all reasonable times for the purpose of making such repairs or alterations as are necessary to effect compliance with the provisions of this chapter or with any lawful order issued pursuant to the provisions of this chapter.
(Ord. passed - -) Penalty, see § 95.99

§ 95.37 PROCEDURE FOR ENFORCEMENT.

(A) (1) *Preliminary investigation; notice; hearing.* Whenever a petition is filed with the town by a public authority or by at least five residents of the town charging that any dwelling or dwelling unit is unfit for human habitation, or whenever it appears to the Code Enforcement Officer, upon inspection, that any dwelling or dwelling unit is unfit for human habitation, he or she shall, if his or her preliminary

investigation discloses a basis for such charges, issue and cause to be served upon the owner of and parties in interest in such dwelling or dwelling unit a complaint stating the charges and containing a notice that a hearing will be held before the inspector at a place therein fixed, not less than ten nor more than 30 days after the serving of the complaint. The owner or any party in interest shall have the right to file an answer to the complaint and to appear in person or otherwise and give testimony at the place and time fixed in the complaint. Notice of such hearing shall also be given to at least one of the persons signing a petition relating to such dwelling. Any person desiring to do so may attend such hearing and give evidence relevant to the matter being heard. The rules of evidence prevailing in courts of law or equity shall not be controlling in hearings before the town.

(2) *Lis pendens.* Whenever the Code Enforcement Officer issues a complaint and notice of hearing under division (A)(1) of this section, the Code Enforcement Officer shall file a notice of lis pendens, with a copy of the complaint and notice attached, in the office of the Clerk of Superior Court of the county, all in accordance with G.S. Chapter 1, Article 11.

(B) *Procedure after hearing.* After such notice and hearing, the Code Enforcement Officer shall state in writing his or her determination whether such dwelling or dwelling unit is unfit for human habitation and, if so, whether it is deteriorated or dilapidated.

(1) (a) If the Code Enforcement Officer determines that the dwelling or dwelling unit is deteriorated, he or she shall state in writing his or her findings of fact in support of such determination and shall issue and cause to be served upon the owner thereof an order directing and requiring the owner, within 60 days from the date of such order, either to:

1. Repair, alter, or improve the dwelling or dwelling unit to comply with the minimum standards of fitness established by this chapter; or

2. Vacate and close such dwelling or dwelling unit.

(b) The order may require that the property be vacated and closed only if continued occupancy during the time allowed for repair will present a significant threat of bodily harm, taking into account the nature of the necessary repairs, alterations, or improvements; the current state of the property; and any additional risks due to the presence and capacity of minors under the age of 18 or occupants with physical or mental disabilities. The order shall state that the failure to make timely repairs as directed in the order shall make the dwelling subject to the issuance of an unfit order under division (C) of this section.

(2) If the inspector determines that the dwelling or dwelling unit is dilapidated, he or she shall state in writing his or her findings of fact in support of such determination and shall issue and cause to be served upon the owner thereof an order directing and requiring the owner, within 60 days from the date of such order, either to:

(a) Repair, alter, or improve the dwelling or dwelling unit to comply with the minimum standards of fitness established by this chapter; or

(b) Demolish or remove the dwelling or dwelling unit.

(C) Failure to comply with order.

(1) *In personam remedy.* If the owner of any deteriorated dwelling or dwelling unit fails to comply with an order of the town issued under division (B)(1) of this section, or the owner of a dilapidated dwelling or dwelling unit fails to comply with an order of the town issued under division (B)(2) of this section, the Code Enforcement Officer may submit to the Board of Commissioners at its next regular meeting a resolution directing the Town Attorney to petition the superior court for an order directing such owner to comply with the order of the inspector, as authorized by G.S. § 160A-446(g).

(2) *In rem remedy.* If the owner of a deteriorated or dilapidated dwelling or dwelling unit fails to comply with an order of the town issued under division (B)(1) or (B)(2) of this section, and the inspector has not sought or the Board has not adopted a resolution directing the Town Attorney to seek injunctive relief as provided in division (C)(1) of this section, then the Code Enforcement Officer shall submit to the Board an ordinance directing the Code Enforcement Officer to repair, vacate and close, or to demolish the dwelling or dwelling unit in accordance with the provisions of this division (C).

(a) The Board may adopt an ordinance in accordance with the provisions of this division (C)(2) if, on the date the Board considers such ordinance, the Board concludes that the owner has still failed either to:

1. Repair, alter, or improve the dwelling or dwelling unit to comply with the minimum standards of fitness established by this chapter, or vacate and close the dwelling or dwelling unit; or

2. Demolish or remove the dwelling or dwelling unit.

(b) The ordinance shall identify the property and the owner and shall direct the inspector to repair or vacate and close or to demolish or remove the dwelling or dwelling unit unless the owner has, prior to the adoption of such ordinance, entered into an agreement with the town (as described in division (C)(2)(c) of this section) staying enforcement of the provisions of this chapter, or enters such an agreement within ten days after the adoption of such ordinance. The ordinance shall further provide that the inspector shall enforce the repair, vacation and closure, or demolition or removal order under the circumstances specified in division (C)(2)(d) of this section.

(c) The Town Manager may, on behalf of the town, enter into an agreement staying the enforcement of the minimum housing code if he or she finds that:

1. The property owner subject to an enforcement proceeding under this chapter has obtained a building permit authorizing the work necessary to bring the dwelling or dwelling unit up to the minimum standards of fitness established by this chapter;

2. The agreement includes an itemization of the work necessary to bring the dwelling or dwelling unit up to the minimum standards of fitness established by this chapter, as well as a timetable for the completion of each major element of the work and a completion date for all such work;

3. The property owner has demonstrated to the reasonable satisfaction of the Manager that such party has available the financial and other resources necessary to complete the work in accordance with such schedule; and

4. The agreement is properly executed by the owner of the property that is subject to an enforcement proceeding under this chapter.

(d) If the inspector determines that a property owner who has entered into an agreement staying the enforcement of the minimum housing code has failed to complete at least 25% of the total cost of the work described in the agreement within 50% of the time established in the agreement for the completion of all the work, then the inspector shall so notify the property owner in writing and shall, not less than ten days after the date of such notice, proceed to enforce the repair, vacate and close, or demolition/removal order. If the inspector determines that the property owner has met the foregoing threshold of completion, then the repair, vacate and close, or demolition/removal order shall not be enforced. However, upon expiration of the agreement, if the property owner has still not brought the dwelling or dwelling unit up to the minimum standards of fitness established by this chapter, then the inspector shall invoke the provisions of §§ 95.42 and 95.99 to obtain compliance with the requirements of this chapter, including the levying of daily civil penalties.

(e) A copy of any ordinance adopted under this section shall be recorded in the Office of the Register of Deeds of the county and shall be indexed in the name of the property owner in the grantor index.

(D) *Appeals from order of Code Enforcement Officer.* An appeal from any decision or order of the Code Enforcement Officer may be taken by any person aggrieved thereby. Any appeal from the inspector shall be taken within ten days from the rendering of the decision or service of the order and shall be taken by filing with the Code Enforcement Officer and with the Board of Commissioners (herein the "Board") a notice of appeal which shall specify the grounds upon which the appeal is based. Upon the filing of any notice of appeal, the inspector shall forthwith transmit to the Board all the papers constituting the record upon which the decision appealed from was made. When an appeal is from a decision of the inspector refusing to allow the person aggrieved thereby to do any act, his or her decision shall remain in force until modified or reversed. When any appeal is from a decision of the Code Enforcement Officer requiring the person aggrieved to do any act, the appeal shall have the effect of suspending the requirement until the hearing by the board, unless the inspector certifies to the Board,

after the notice of appeal is filed with him or her, that by reason of the facts stated in the certificate, a copy of which shall be furnished the appellant, a suspension of his or her requirement would cause imminent peril to life or property, in which case the requirement shall not be suspended except by a restraining order, which may be granted for due cause shown upon not less than one day's written notice to the Code Enforcement Officer, by the Board, or by a court of record upon petition made pursuant to G.S. § 160A-446(f) and division (E) of this section.

(1) The Board shall fix a reasonable time for the hearing of all appeals, shall give due notice to all the parties and shall render its decision within a reasonable time. Any party may appear in person or by agent or attorney. The Board may reverse or affirm, wholly or partly, or may modify the decision or order appealed from and may make such decision and order as in its opinion ought to be made in the matter, and to that end it shall have all the powers of the inspector, but the concurring vote of four members of the Board shall be necessary to reverse or modify any decision or order of the Code Enforcement Officer. The Board shall have power also in passing upon appeals, if there are practical difficulties or unnecessary hardships in the way of carrying out the strict letter of the ordinance, to adapt the application of the ordinance to the necessities of the case to the end that the spirit of the ordinance shall be observed, public safety and welfare secured, and substantial justice done.

(2) Every decision of the Board shall be subject to review by proceedings in the nature of certiorari instituted within 15 days of the decision of the Board, but not otherwise.

(E) *Petition to superior court by owner.* Any person aggrieved by an order issued by the inspector or a decision rendered by the Board shall have the right, within 30 days after issuance of the order or rendering of the decision, to petition the Superior Court for a temporary injunction restraining the inspector pending a final disposition of the cause, as provided by G.S. § 160A-446(f).
(Ord. passed - -)

§ 95.38 METHODS OF SERVING COMPLAINTS AND ORDERS.

(A) Complaints or orders issued by the town shall be served upon persons either personally or by registered or certified mail, but if the whereabouts of such persons are unknown and the same cannot be ascertained by the Code Enforcement Officer in the exercise of reasonable diligence, the Code Enforcement Officer shall make an affidavit to that effect, and the serving of such complaint or order upon such person may be made by publishing the same once each week for two successive weeks in a newspaper printed and published in the town.

(B) Where service is made by publication, a notice of the pending proceedings shall be posted in a conspicuous place on the premises affected by the complaint or order.
(Ord. passed - -)

§ 95.39 COSTS A LIEN ON PREMISES.

As provided by G.S. § 160A-443(6), the amount of the cost of any repairs, alterations, or improvements, or vacating and closing, or removal or demolition caused to be made or done by the inspector pursuant to § 95.37 of this chapter shall be a lien against the real property upon which such cost was incurred. Such lien shall be filed, have the same priority, and be enforced and the costs collected as provided by G.S. Chapter 160A, Article 10.
(Ord. passed - -)

§ 95.40 ALTERNATIVE REMEDIES.

Neither this chapter or any of its provisions shall be construed to impair or limit in any way the power of the town to define and declare nuisances and to cause their abatement by summary action or otherwise or to enforce this chapter by criminal process as authorized by G.S. § 14-4 and this chapter, and the enforcement of any remedy provided in this chapter shall not prevent the enforcement of any other remedy or remedies provided in this chapter or in other ordinances or laws.
(Ord. passed - -)

§ 95.41 PLANNING BOARD TO HEAR APPEALS.

All appeals which may be taken from decisions or orders of the town pursuant to this chapter shall be heard and determined by the Planning Board. As the appeals body, the Board shall have power to fix the times and places of its meetings, to adopt necessary rules of procedure and any other rules and regulations which may be necessary for the proper discharge of its duties. The Board shall perform the duties prescribed by this chapter and shall keep an accurate journal of all its proceedings.
(Ord. passed - -)

§ 95.42 VIOLATIONS; REMEDIES.

It shall be unlawful for the owner of any dwelling or dwelling unit to fail, neglect, or refuse to repair, alter, or improve the dwelling or dwelling unit or to vacate and close and remove or demolish the dwelling or dwelling unit, upon order of the town duly made and served as provided in this chapter, within the time specified in such order, and each day that any such failure, neglect, or refusal to comply with such order continues shall constitute a separate and distinct offense. It shall be unlawful for the owner of any dwelling or dwelling unit, with respect to which an order has been issued pursuant to § 95.37 of this chapter, to occupy or permit the occupancy of the dwelling or dwelling unit after the time prescribed in such order for its repair, alteration, or improvement or its vacation and closing, and each day that such occupancy continues after such prescribed time shall constitute a separate and distinct offense.
(Ord. passed - -) Penalty, see § 95.99

§ 95.99 PENALTY.

(A) The violation of any provision of this chapter shall constitute a misdemeanor, as provided by G.S. § 14-4, and shall be punishable as provided by the town.

(B) A violation of any of the provisions of this chapter shall also subject the offender to a civil penalty of $100. As provided above in § 95.37(C), civil penalties shall not be levied for any period during which an agreement staying the enforcement of the minimum housing code is in effect. However, if such agreement expires and the dwelling or dwelling unit covered by the agreement has still not been brought up to the minimum standards of fitness established by this chapter, then the inspector may begin imposing daily civil penalties until the dwelling or dwelling unit is brought up to the minimum standards of fitness established by this chapter. If the offender does not pay the civil penalty within ten days after being notified of the violation and the amount of the penalty (or within ten days after being notified of the daily accrual of civil penalties), then the town may collect the amount owed to the town in a civil action in the nature of debt.
(Ord. passed - -)

CHAPTER 96: PARKS AND RECREATION

Section

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Parks and recreation, see G.S. §§ 160A-350 et seq.

GENERAL PROVISIONS

§ 96.001 DESIGNATION OF TOWN PARKS.

(A) The Town Board of Commissioners hereby establishes the following town parks to be utilized for the purpose of public recreation:

(1) Riverside Heritage Park;

(2) Powell Park; and

(3) Mutual Park.

(B) The above parks are for use by public through approved recreation programs as authorized by the Town Board of Commissioners and the Town Manager and in accordance with town ordinances and such policies, rules, and regulations as may be adopted pursuant to this chapter.
(Ord. passed - -)

§ 96.002 POLICIES AND PROCEDURES.

The Board of Commissioners, upon recommendation of the Town Manager, shall adopt from time to time, in addition to the regulations set forth in this chapter, policies and procedures governing the use

of municipal park and recreation facilities. Those policies and procedures, together with the regulations codified of this chapter, shall be made available to the public in an appropriate form as may be determined by the Town Manager.
(Ord. passed - -)

§ 96.003 AUTHORITY TO ACCEPT GRANTS, GIFTS, AND THE LIKE.

The town may accept any grant, gift, bequest, or donation of any personal property offered or made for recreational purposes and, with the approval of the Board of Commissioners, may accept any grant, gift, or devise of real estate. Any gift, bequest of money, or other personal property grant or devise of real estate shall be held, used, and finally disposed of in accordance with the terms or conditions under which such grant, gift, or devise is made and accepted.
(Ord. passed - -)

§ 96.004 THIRD-PARTY USE OF FACILITIES.

(A) *Policy.* It is the policy of the Board of Commissioners to make town park and recreation facilities available to as many residents of the town and vicinity as is reasonably possible and to do so in a manner which does not discriminate against any person or group by reason of age, sex, religion, political affiliation, national origin. However, such policy does recognize the obligation of the town to first attempt to meet the needs of its citizens before responding to the requests of nonresident individuals and groups.

(B) *Authorization by Board of Commissioners.* Recognizing the limited availability of town personnel to organize, conduct, and supervise all recreational activities at town facilities, the Board of Commissioners may from time to time, upon recommendation of the Town Manager, authorize such groups or individuals as the Board of Commissioners may deem necessary and appropriate to program activities and events at town parks or recreational facilities.

(C) *Authorization by Town Manager.* The Board of Commissioners may from time to time authorize the Town Manager to authorize the use of town recreation or park facilities by groups or individuals without prior approval by the Board of Commissioners. If such authority is granted to the Manager, the same shall be noted upon the minutes of the Board of Commissioners and among the policies and procedures which may be adopted from time to time pursuant to this chapter.

(D) *Selection.* Selection of groups or individuals who wish to conduct recreational programs and events shall be based upon determinations by the Board of Commissioners that the proposed programs or events are in the best interest of the citizenry, that such programs and events can or will be conducted in accordance with the policies and the intent of this chapter, and that they represent the maximum beneficial use of available facilities.

(E) *Access.* The Board of Commissioners, upon recommendation of the Manager, shall adopt or shall authorize the Manager to adopt policies and procedures governing access to use of town park and recreation facilities. Those policies and procedures shall be consistent with this chapter and may include but not be limited to fees for use of facilities, use of concession stands for sale of food and drink, shared use of facilities, application procedures, and forms for the use of facilities, and related matters.
(Ord. passed - -)

RECREATION COMMISSION

§ 96.020 CREATED.

There is hereby created a commission to be known as the Recreation Commission of the town.
(Ord. passed - -)

§ 96.021 COMPOSITION; TERMS OF MEMBERS; VACANCIES; COMPENSATION.

The Recreation Commission shall be appointed by the town and shall consist of five regular members. A plan shall be established whereby staggered appointed terms are implemented with no more than three term expirations in one year. The terms of all appointed members shall be three years with the option to serve an additional three years if approved by the Board of Commissioners. Vacancies in the Commission shall be filled for the unexpired term by appointment by the Board of Commissioners. The members shall serve without compensation.
(Ord. passed - -)

§ 96.022 OFFICERS; RULES AND REGULATIONS; MEETINGS.

The Recreation Commission shall appoint from its membership a chairperson and other officers as it may deem necessary for the orderly procedure of its business. The Commission may adopt bylaws, rules, and regulations covering its procedure not inconsistent with the provisions of state law as approved by the Board of Commissioners. The Recreation Commission shall hold regular meetings at such times and places as it may designate.
(Ord. passed - -)

§ 96.023 POWERS AND DUTIES.

The powers and duties of the Recreation Commission shall be to:

(A) Plan and recommend by regular and special reports to the Town Manager actions as may be necessary to create and develop an adequate and complete system of parks, playgrounds, and recreation centers and facilities; act as an advisor to the Town Manager concerning the supervision, organization, and management of parks and playgrounds, and activities thereon, recreation and social centers, playfields, swimming pools, and similar facilities in order that the best and most satisfactory provision for supervision for community sports and activities of all kinds will be properly developed; cooperate with individuals, firms, or organizations interested in public recreation; and recommend such clean and wholesome recreation and amusement for the citizens of the town as it shall deem advisable;

(B) Cooperate with any other public authority and aid assist in coordinating recreation activities, pursuant to and in accord with G.S. §§ 160A-350 et seq., and with the provisions of this chapter; and

(C) Carry out the directions of the Town Manager and, subject to the directions of the Town Manager, make recommendations to the Parks and Recreation Director in organizing and directing the use of all playgrounds, facilities, and recreational centers owned, operated, or maintained by the town. (Ord. passed - -)

§ 96.024 COOPERATION OF TOWN OFFICERS AND DEPARTMENTS.

All officers, departments, and department heads of the town will cooperate and render reasonable and necessary assistance to the Recreation Commission and to the Parks and Recreation Department. (Ord. passed - -)

§ 96.025 ANNUAL REPORT.

The Recreation Commission shall render annually to the Town Manager a full report of its work. (Ord. passed - -)

§ 96.026 RESTRICTIONS ON ENTERING CONTRACTS AND INCURRING OBLIGATIONS.

The Recreation Commission shall have no authority to enter into any contract or incur any obligation binding the town, other than current obligations or contracts to be fully executed within the then current fiscal year and all within the budget appropriations made by the Board of Commissioners.
(Ord. passed - -)

§ 96.027 ACQUISITION AND DISPOSITION OF FUNDS.

The Board of Commissioners may, as its discretion, appropriate such money as it may deem necessary for the purpose of carrying on the activities of the Parks and Recreation Department. The

Recreation Commission shall act in an advisory capacity to the Parks and Recreation Director and the Town Manager in developing the annual budgetary request to be presented for consideration by the Board of Commissioners. Funds received by the Commission or the Parks and Recreation Department shall be used to supplement the Department's budget. The funds shall be paid to the town, shall be disbursed for the purpose for which the funds were accepted, and shall be disbursed in the same manner as other Department funds.
(Ord. passed - -)

§ 96.028 CHARGES AND FEES.

(A) The town will charge a modest fee for reserving picnic shelter. The fee for town residents is $15 and the fee for non-town residents is $20. Town residents must be composed of at least 50% town residents. Fees are subject to change. When you book a reservation, you are only reserving the shelter, not the entire park. The park is open to the general public. Reservations are made through Parks and Recreation Department not more than six months in advance. Shelters may be reserved by telephone, but applicants must either come by the Parks and Recreation Office, or mail in payment within five working days from the date the reservation is made or the reservation will be cancelled. Reservations made less than five days in advance must be made in person and paid for at that time. Policies vary for school groups and nonprofit groups (for fund raisers).

(B) If access for caterers is needed in parks where there is a gate, prior arrangements must be made and a $5 nonrefundable key deposit paid the evening before you plan to use the shelter. If the shelter is being used on Sunday, the key may be picked up on Friday afternoon. The key must be returned by 12:00 noon on the next working day. Your $5 deposit will be returned to you upon receipt of the key. (Ord. passed - -)

PARKS AND RECREATION DEPARTMENT; DIRECTOR

§ 96.040 DEPARTMENT AND DIRECTOR CREATED.

Subject to the general control and supervision of the Town Manager, there is hereby created the Department of Parks and Recreation and the office of Parks and Recreation Director.
(Ord. passed - -)

§ 96.041 APPOINTMENT OF DIRECTOR.

The Parks and Recreation Director shall be appointed by the Town Manager to serve until his or her successor has been appointed and qualified.
(Ord. passed - -)

§ 96.042 COMPENSATION.

The Parks and Recreation Director shall be paid such compensation as may be fixed by the Board of Commissioners.
(Ord. passed - -)

§ 96.043 SUPERVISION; AUTHORITY.

(A) The Parks and Recreation Director shall have general supervision, direction, and control, under the direction of the Town Manager, over all matters pertaining to the public recreation, including public playgrounds, public parks, and other public property, used or intended for public, recreational purposes in the town.

(B) (1) It shall be the duty of the Parks and Recreation Director to supervise generally, administer and control the use of all the public playgrounds, public parks, and equipment owned or used by the town within the town, and used or intended for use for public recreation.

(2) The Parks and Recreation Director shall have the duty and authority to promulgate reasonable rules and regulations, not inconsistent with any ordinance adopted by the Board of Commissioners, for the proper and efficient administration of the Parks and Recreation Department and for the wholesome use of such recreational facilities and equipment by the general public.

(C) For the purpose of properly and efficiently carrying out the provisions of this chapter, the Parks and Recreation Director shall have the authority to employ and to discharge, within the limits of the budget and with the approval of the Town Manager, and subject to the personnel code of the town, all play leaders, playground directors, supervisors, recreation specialists, maintenance personnel, and such other employees as the Parks and Recreation Director may deem necessary and proper.

(D) (1) The Parks and Recreation Director shall enforce all ordinances of the town regulating playgrounds and recreational centers and their use and may, in furtherance of such duty, have the power to remove or cause to be removed and excluded from any of playgrounds, amusement facilities, and recreation centers, any person violating any of the ordinances or any rules or regulations concerning their use.

(2) He or she shall have the responsibility for the care and control of all equipment, grounds, and paraphernalia owned or controlled by the town for the use of playground or recreation purposes, and he or she shall be responsible for the custody of such property.
(Ord. passed - -)

PARK USE REGULATIONS

§ 96.055 GROUP ACTIVITY; SIGNS.

(A) *Group activity.* Whenever any group, association, or organization desires to use park facilities for a particular purpose, a representative of the group, association, or organization shall first obtain a permit from the Parks and Recreation Director for such purposes. The Parks and Recreation Director will grant the permit if it appears that the group, association, or organization will not interfere with the general use of the parks and the proposed activity of the group will not unreasonably interfere with or detract from the promotion of public health, safety, and recreation.

(B) *Signs declaring park use regulations.* Signs shall be erected at the entrances to parks setting forth the hours of opening and closing the parks. Other signs regulating the use of the park areas by the public may be established throughout the parks when such regulation has been established in this section. All signs are to be observed by the public and it shall be unlawful for anyone to violate any such posted regulation.
(Ord. passed - -) Penalty, see § 10.99

§ 96.056 WILDLIFE PROTECTED.

The shooting or trapping of birds, squirrels, or other game in any park within the town is prohibited.
(Ord. passed - -) Penalty, see § 10.99

§ 96.057 PICNIC SHELTERS.

(A) Picnic shelters in all town parks are available to churches, clubs, families, and other local groups which shall be set by the Board of Commissioners and published in the Manual of Town Policies and may be reserved by calling the office of the Parks and Recreation Director. This division (A) shall apply only when picnic shelters are to be used for social purposes and no fund-raising activity involved.

(B) Picnic shelters in Powell Park and Riverside Heritage Park shall be available to local groups for fund-raising purposes upon payment of a deposit to the town and upon receipt of a permit from the Parks and Recreation Director.

(C) Picnic shelters shall be available for fund-raising activities to local groups whose membership is at least partially composed of town citizens and whose purpose in renting a picnic shelter for fund-raising is nonprofit. Shelters shall not be available for rent to groups from neighboring towns unless their membership and purpose is countywide in scope. The town reserves the right to decide whether a group qualifies for use of a picnic shelter for fund-raising purposes.

(D) The only fund-raising activity permitted in the picnic shelters shall be the sale of food and drink products except that the sale or use of alcoholic beverages shall be prohibited. Permission to sell food and drink products is contingent upon approval by the appropriate County Health Department, and it is the responsibility of the applicant group to obtain Health Department approval.

(E) Permission to use picnic shelters for fund-raising purposes is contingent upon certification by the Town Clerk that the applicant has arranged for traffic control. If the town determines that increased traffic control measures are necessary, the applicant shall be required to employ the number of off-duty police officers specified by the town at the applicant's expense.

(F) An advance deposit for damage, one cleanup, utilities and other expenses to be determined by the Parks and Recreation Director shall be paid. The unused portion of this deposit (as determined by the Parks and Recreation Director), if any, will be returned provided the shelter and surrounding grounds are cleaned up by 9:00 a.m. the following day to the satisfaction of the Parks and Recreation Department representative. If cleanup is provided by the town, the charge shall be actual payroll plus 27% and actual equipment charges. The amount of the deposit shall be determined by the Board of Commissioners and published in the Manual of Town Policies.

(G) If the group desires to rent the shelter for longer than two hours, health regulations relative to restroom facilities must be followed.

(H) If an application for permit under this section is denied, the applicant may appeal to the Town Manager.

(I) Permits for the use of picnic shelters for fund-raising purposes are nontransferable.
(Ord. passed - -)

§ 96.058 VEHICLES.

It shall be unlawful for any person to drive or propel any motor vehicle or other vehicle in, over, or though any park, except along and upon regularly-established roadways and parking lots. It shall be unlawful for any person to park or permit to be parked any vehicle anywhere except upon designated parking areas authorized by the Town Manager. The term ***MOTOR VEHICLE*** is hereby defined to include but is not limited to automobiles, trucks, minibikes, go-carts, motorbikes, motorcycles, or any other self-propelled, motorized vehicle. The term ***OTHER VEHICLE*** is defined to include but is not limited to bicycles.
(Ord. passed - -) Penalty, see § 10.99

§ 96.059 ADVERTISING.

It shall be unlawful for any person to place or erect any structure, sign, bulletin board, post, pole, or advertising device of any kind whatever in any park; to attach any notice, bill, poster, sign, wire, or

cord to any tree, shrub, fence, railing, post, or structure within any park except as they may be authorized by the Town Manager.
(Ord. passed - -) Penalty, see § 10.99

§ 96.060 DESTRUCTION OF PARK PROPERTY.

It shall be unlawful for any person to remove, destroy, mutilate, or deface any structure, monument, statue, planter, fountain, wall, fence, railing, vehicle, bench, tree, plant, or any other property in any park.
(Ord. passed - -) Penalty, see § 10.99

§ 96.061 WEAPONS.

It shall be unlawful for any person, except duly authorized town employees in the course of their duty, to shoot, fire, or explode or cause to be discharged, shot, fired, or exploded any firearm, including but not limited to toy pistols, toy guns, or other toy arms designed to forcibly hurl a projectile or missile, at any time or under any circumstances within any park. It is unlawful to carry any firearms in any park. Archery equipment, slingshots, or other similar devices may be shot or discharged only in those areas within the parks which may be specifically set aside and so posted for such purpose by the Town Manager.
(Ord. passed - -) Penalty, see § 10.99

§ 96.062 ANIMALS; RUNNING AT LARGE.

It shall be unlawful for any person to allow or permit any horses, dogs, or other animals to run at large in any park, and it shall be unlawful to ride horses in any park except upon designated and marked bridle trails.
(Ord. passed - -) Penalty, see § 10.99

§ 96.063 ANIMALS; MOLESTING.

It shall be unlawful for any person to trap, catch, wound, or kill; cause to be injured, treated cruelly, or teased; attempt to trap, catch, wound, kill, injure, or tease any bird or animal; or rob any nest of any bird or any lair, den, or burrow of any animal, in or upon any land owned by the town, except as may be specifically authorized by the Town Manager.
(Ord. passed - -) Penalty, see § 10.99

§ 96.064 FISH AND AQUATIC LIFE.

It shall be unlawful to fish in any waters owned or administered by the town, except such portion thereof as may be designated by the Town Manager under such policies and regulations as may be adopted by the town and conforming to the laws of the state. It shall be unlawful for any person to remove or capture or attempt to remove or capture, whether by use of seine, trap, or other device, any fish or other aquatic life in or from any of the waters within any park or park lands.
(Ord. passed - -) Penalty, see § 10.99

§ 96.065 SELLING, PEDDLING, AND THE LIKE.

It shall be unlawful for any person to engage in soliciting, peddling, begging, or selling goods or merchandise; to sell, hawk, or vend food or drink within the parks unless written authority is given by the Town Manager; and unless such selling, peddling, soliciting, and the like, is in accordance with other applicable provisions of this code and state and local laws and regulations.
(Ord. passed - -) Penalty, see § 10.99

§ 96.066 GAMBLING.

It shall be unlawful for any person to conduct or carry on any game of chance at which money, property, or other thing of value is bet, whether the valuable is in stake or not, in any park.
(Ord. passed - -) Penalty, see § 10.99

§ 96.067 ALCOHOLIC BEVERAGES.

It shall be unlawful for any person to consume or to display publicly any alcoholic beverages in any park. It shall be unlawful for any person under the influence of alcoholic beverages to enter or remain in any park. ***ALCOHOLIC BEVERAGE*** as used in this section is defined the same as the term is defined in G.S. § 18B-101.
(Ord. passed - -) Penalty, see § 10.99

§ 96.068 GAMES AND SPORTS.

It shall be unlawful for any person to play football, golf, baseball, or other games of like character in any area in any park where signs are posted in the area specifically prohibiting such games. At no time and under no circumstances shall such games be played in close proximity to playground equipment or park structures so as to threaten harm to persons using the park or damage to the park structures.
(Ord. passed - -) Penalty, see § 10.99

§ 96.069 EXCAVATIONS.

It shall be unlawful for any person to make an excavation in any park for any purpose without written permission from the Town Manager.
(Ord. passed - -) Penalty, see § 10.99

§ 96.070 FIRES.

It shall be unlawful for any person to make or kindle a fire in any park except in a regularly constructed or appropriate portable fireplace or grill. It shall be unlawful for any person to leave any fire unattended or to fail to completely extinguish a fire and all the embers thereof before leaving the fire.
(Ord. passed - -) Penalty, see § 10.99

§ 96.071 DUMPING.

No person shall deposit, dump, throw, cast, lay, or place, or cause to be deposited, dumped, thrown, cast, laid, or placed any ashes, trash, rubbish, soil or earth, paper, garbage, refuse, debris, plant clippings, limbs, or leaves in or upon any park or parklands or in any watercourse, lake, pond, or slough within such parklands.
(Ord. passed - -) Penalty, see § 10.99

§ 96.072 PLANT MATERIAL.

It shall be unlawful for any person to dig, cut, debark, mutilate, or cause to be transplanted, cut, bruised, debarked, or mutilated any plant material of all and any description within any parkland without written permission of the Town Manager.
(Ord. passed - -) Penalty, see § 10.99

§ 96.073 NIGHT USE.

All parks shall close by sundown until sunrise unless specific authorization is given by the Town Manager. Normal hours of operation of town park and recreation facilities shall be established from time to time by the Town Manager shall be conspicuously posted as may be appropriate. It shall be unlawful for any person to be present on the premises of town park and recreation facilities outside of the posted normal hours of operation, except for town employees conducting town business thereon and for emergency personnel and law enforcement personnel on official business. It shall be unlawful for any person to drive, park, or otherwise operate or leave unattended any type of vehicle on the premises of town park and recreation facilities outside of posted normal hours of operation, except for town

employees conducting town business thereon and for emergency personnel and law enforcement personnel on official business.
(Ord. passed - -) Penalty, see § 10.99

§ 96.074 ADOPTION OF RULES AND POLICIES.

The Board of Commissioners, upon the recommendation of the Town Manager, shall adopt such policies, rules, and regulations as may from time to time be required to implement the foregoing provisions, and the Manager shall take such actions as may reasonably be necessary to enforce this subchapter.
(Ord. passed - -)

TITLE XI: BUSINESS REGULATIONS

[Reserved]

TITLE XIII: GENERAL OFFENSES

Chapter

130. GENERAL OFFENSES

CHAPTER 130: GENERAL OFFENSES

Section

130.01 Loitering
130.02 Drinking alcoholic beverages in public
130.03 Discharge of firearms and air rifles
130.04 Abandoned refrigerators and similar containers
130.05 Abandoned wells

130.99 Penalty

§ 130.01 LOITERING.

(A) As used in this section, ***LOITERING*** shall mean lingering, aimless wandering, dawdling, congregating in groups of two or more individuals, and acting in such manner as to block, impede, or disturb the orderly flow of individual or vehicular traffic.

(B) It is unlawful for any person or group of persons to loiter, or to loiter and create loud and boisterous noise or conduct, including yelling, shouting, fighting, feigning a fight or act constituting disturbing the peace, or using or causing to be used any instrument, mechanical device, or other object, including fireworks, which creates loud, unusual, and excessive noise on any street, sidewalk, public or private driveway or parking lot or vehicular area, or on the immediate premises of any nightclub, dance hall, bar, or tavern, between the hours of 8:00 p.m. and 7:00 a.m.
(1999 Code, § 130.01) (Ord. passed 6-27-1988) Penalty, see § 130.99

§ 130.02 DRINKING ALCOHOLIC BEVERAGES IN PUBLIC.

It shall be unlawful for any person to consume or drink alcoholic beverages, as defined in G.S. § 18B-101(4), upon any street, boulevard, alleyway, sidewalk, municipal park or building, or any property owned, leased, or under the control of the town.
(1999 Code, § 130.02) (Ord. passed 6-27-1988) Penalty, see § 130.99
Statutory reference:
Alcoholic beverages, see G.S. §§ 18B-100 et seq.

§ 130.03 DISCHARGE OF FIREARMS AND AIR RIFLES.

(A) Subject to division (B) of this section, no person may discharge any firearm within the town.

(B) Division (A) of this section shall not apply to private citizens acting in justifiable self-defense or pursuant to the lawful directions of a police officer nor to police officers acting in the lawful performance of their duties.

(C) No person may discharge or shoot within the town any air rifle, air pistol, BB gun, pellet gun, pump gun, or similar weapon within 100 yards of any building or house or gathering of people.

(D) Division (A) of this section shall not apply to private citizens who hold a valid permit issued by the jurisdictional law enforcement agency pursuant to § 91.23 (Destruction of rodents, squirrels, pigeons, and the like), while exercising the rights granted by the permit.
(1999 Code, § 130.03) (Ord. passed 11-21-2014) Penalty, see § 130.99
Statutory reference:
Offenses relating to weapons, see G.S. §§ 14-269 et seq., 14-280

§ 130.04 ABANDONED REFRIGERATORS AND SIMILAR CONTAINERS.

(A) No person may leave outside of any building in any place accessible to children any unattended, abandoned or discarded icebox, refrigerator, or any other container of any kind which has a substantially airtight door and which, when closed, may not be opened from the inside.

(B) No person may knowingly permit any device described in division (A) of this section to remain on premises under his or her control.
(1999 Code, § 130.04) Penalty, see § 130.99
Statutory reference:
Discarding or abandoning iceboxes and the like; precautions required, see G.S. § 14-318.1

§ 130.05 ABANDONED WELLS.

(A) No person may knowingly permit any unused or abandoned cistern or well to remain on property under his or her control without adequately securing the top of such cistern or well so as to prevent any person from using or falling into such cistern or well.

(B) Except as otherwise provided by law, abandoned wells shall be filled.
(1999 Code, § 130.05) Penalty, see § 130.99

§ 130.99 PENALTY.

(A) A violation of any of the provisions of this chapter shall constitute a misdemeanor punishable by a fine of not more than $50 or imprisonment for not more than 30 days, or both.

(B) A violation of any of the provisions of this chapter shall also subject the offender to a civil penalty of $25. If a person fails to pay this penalty within ten days after being cited for a violation, the town may seek to recover the penalty by filing a civil action in the nature of debt.

(C) The town may seek to enforce this chapter through any appropriate equitable action.

(D) Each day that a violation continues after the offender has been notified of the violation shall constitute a separate offense.

(E) The town may seek to enforce this chapter by using any one or a combination of the remedies set out in this section.
(1999 Code, § 130.99)

TITLE XV: LAND USAGE

Chapter

150. ZONING

Cross-reference:

Parks and Recreation, see Chapter 96

CHAPTER 150: ZONING

Section

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GENERAL PROVISIONS

§ 150.001 PURPOSE.

The zoning regulations and districts as herein set forth have been made in accordance with a comprehensive plan and are designed to lessen congestion on the streets; to secure safety from fire, panic, and other dangers; to protect health and the general welfare; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; to facilitate the

adequate provision of transportation, water, sewerage, schools, parks, and other public requirements. They have been made with reasonable consideration, among other things, as to the character of the district, its peculiar suitability for particular uses, and with a view to conserving the value of buildings and encouraging the most appropriate use of land throughout the community.

(1999 Code, § 150.01) (Ord. passed 7-24-1989)

§ 150.002 AUTHORITY.

The provisions of this chapter are adopted under authority granted by the General Assembly of the State of North Carolina, G.S. § 160D.

(1999 Code, § 150.02) (Ord. passed 7-24-1989)

§ 150.003 JURISDICTION.

(A) The regulations presented in this chapter shall apply to all property within the Town's Planning and Development Regulation Jurisdiction as established by an ordinance and map adopted by the Board of Commissioners in accordance with G.S. § 160D-202, which are on file in the office of the Register of Deeds of the county.

(B) The provisions of this chapter shall not apply to bona fide farms. This chapter does not exercise controls over crop lands, timber land, pasture lands, idle or other farm lands, nor over any farm house, barn, poultry house, other farm building including tenant or other houses for persons working on said farms, as long as such houses shall be in the same ownership as the farm and located on the farm. Such agricultural uses maintain the openness of the land and achieve the purposes of this chapter without the need for regulation. Per G.S. § 160D-903, residences which are not occupied by the owner, lessee, or operator and other non-farm uses shall be subject to the provisions of this chapter.

(1999 Code, § 150.03) (Ord. passed 7-24-1989)

§ 150.004 DEFINITIONS.

For the purpose of this chapter, the following definitions shall apply unless the context clearly indicates or requires a different meaning. Words used in the present tense shall include the future tense. Words used in the singular number shall include the plural, and words used in the plural number shall include the singular, unless the natural construction of the wording indicates otherwise.

ACCESSORY BUILDING OR USE. A building or use customarily located on a lot in association with a principal building or use and incidental and subordinate to the principal building or use.

ADMINISTRATIVE DECISION. Decisions made in the implementation, administration, or enforcement of development regulations that involve the determination of facts and the application of objective standards set forth in this Chapter or local government development regulations. These are sometimes referred to as ministerial decisions or administrative determinations.

ADMINISTRATIVE HEARING. A proceeding to gather facts needed to make an administrative decision.

ALLEY. A public or private thoroughfare which affords only a secondary means of access to abutting property.

ALTERATION. Includes any of the following:

(1) Any addition to the height or depth of a building or structure;

(2) Any change in the location of any of the exterior walls of a building or structure; or

(3) Any increase in the interior accommodations of a building or structure.

BILLBOARD. An outdoor structure or display, pictorial or otherwise, either freestanding or attached to a building, which advertises or attracts attention to a business, commodity, service, or other activity, conducted, sold, or offered elsewhere than on the premises on which the structure or display is located.

BONA FIDE FARM PURPOSES. Those agricultural activities set forth in G.S. § 160D-903.

BUILDING. Any structure used or intended for supporting or sheltering any use or occupancy. The term ***BUILDING*** shall be construed as if followed by the words "or parts thereof."

BUILDING HEIGHT. The vertical distance from the mean elevation of the finished grade along the front of a building to the highest point of a flat roof, or to the deck line of a mansard roof, or the mean height level between eaves and ridge for gable, hip, and gambrel roofs.

BUILDING, PRINCIPAL. A building in which is conducted the principal use of the lot on which it is located.

BUILDING SETBACK LINE. A line establishing the minimum allowable distance between the nearest portion of any building, excluding the outermost three feet of any uncovered porches, steps, eaves, gutters, and similar fixtures, and the street right-of-way line when measured perpendicularly thereto.

CERTIFICATE OF ZONING COMPLIANCE. A statement signed by the Zoning Enforcement Officer stating that the plans for a building, structure, or use of land complies with the requirements of the zoning ordinance, the Edgecombe County Health Department, and the North Carolina Department of Human Resources, Division of Health Services.

CERTIFICATE OF OCCUPANCY. A statement signed by the Zoning Enforcement Officer setting forth that the building, structure, or use of land complies with the zoning ordinance.

COMPREHENSIVE PLAN. Those plans officially adopted by the Town Council pursuant to G.S. 160D-501(c).

CONDITIONAL ZONING. A legislative zoning map amendment with site-specific conditions incorporated into the zoning map amendment.

DAY CARE FACILITY. Any day care center or child care arrangement that provides day care for more than five children unrelated to the operator and for which a payment, fee, or grant is received, excluding foster homes, public or private schools which provide a course of grade school instruction to children of public school age, summer day or residence camps, or Bible schools.

DECISION-MAKING BOARD. A governing board, planning board, board of adjustment, historic district board, or other board assigned to make quasi-judicial decisions under G.S. § 160D.

DEVELOPMENT. Unless the context clearly indicates otherwise, the term means any of the following:

a. The construction, erection, alteration, enlargement, renovation, substantial repair, movement to another site, or demolition of any structure.
b. The excavation, grading, filling, clearing, or alteration of land.
c. The subdivision of land as defined in G.S. § 160D-802.
d. The initiation or substantial change in the use of land or the intensity of use of land.

DEVELOPMENT APPROVAL. An administrative or quasi-judicial approval made pursuant to G.S. § 160D that is written and that is required prior to commencing development or undertaking a specific activity, project, or development proposal. Development approvals include, but are not limited to, zoning permits, site plan approvals, special use permits, variances, and certificates of appropriateness. The term also includes all other regulatory approvals required by regulations adopted pursuant to G.S. § 160D, including plat approvals, permits issued, development agreements entered into, and building permits issued.

DEVELOPMENT REGULATION. A unified development ordinance, zoning regulation, subdivision regulation, erosion and sedimentation control regulation, floodplain or flood damage prevention regulation, mountain ridge protection regulation, stormwater control regulation, wireless telecommunication facility regulation, historic preservation or landmark regulation, housing code, State Building Code enforcement, or any other regulation adopted pursuant to G.S. § 160D, or a local act or charter that regulates land use or development.

DWELLING. Any building, structure, manufactured home, or mobile home, or part thereof, used and occupied for human habitation or intended to be so used, and includes any outhouses and appurtenances belonging thereto or usually enjoyed therewith. This term does not include any manufactured home, mobile home, or recreational vehicle, if used solely for a seasonal vacation purpose.

DWELLING, MULTI-FAMILY. A building or portion thereof used or designed as residence for three or more families living independently of each other, including apartment houses, apartment hotels, and group housing projects.

DWELLING, SINGLE-FAMILY. A detached building designed for or occupied exclusively by one family, not including mobile homes.

DWELLING, TWO-FAMILY. A building or portion thereof used or designed as a residence for two or more families living independently of each other.

DWELLING UNIT. A single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

EVIDENTIARY HEARING. A hearing to gather competent, material, and substantial evidence in order to make findings for a quasi-judicial decision required by a development regulation adopted under this Chapter.

FAMILY. Any number of persons living together as a single housekeeping unit.

FRONTAGE. The distance between the two side lot lines as measured along the front setback line.

GENERAL COMMERCIAL. *A place of business providing the sale and display of goods or sale of services directly to the consumer, with goods, including prepared foods and catering service, available for immediate purchase and removal from the premises by the purchaser.*

GOVERNING BOARD. The Board of Commissioners.

HOME OCCUPATION. An occupation for gain or support customarily conducted on the premises by a person or family residing thereon. The term ***HOME OCCUPATION*** shall not be deemed to include a tourist home.

JUNK YARD. The use of more than 600 square feet of any lot or tract for the outdoor storage and/or sale of waste paper, rags, scrap metal, or other junk, including the storage of automobiles or other vehicles or dismantling of such vehicles or machinery or parts thereof.

LEGISLATIVE DECISION. The adoption, amendment, or repeal of a regulation under G.S. § 160D or an applicable local act. The term also includes the decision to approve, amend, or rescind a development agreement consistent with the provisions of G.S. § 160D, Article 10.

LEGISLATIVE HEARING. A hearing to solicit public comment on a proposed legislative decision.

LOT. A parcel of land occupied or capable of being occupied by a building or groups of buildings devoted to a common use, together with the customary accessories, and open spaces belonging to the same. ***LOT*** shall include the words “plot,” “parcel,” or “tract.”

LOT, CORNER. A lot which occupied the interior angle at the intersection of two street lines which make an angle of more than 45 degrees and less than 135 degrees with each other.

LOT DEPTH. The average horizontal distance between the front and rear lot lines.

LOT OF RECORD. A lot which is part of a subdivision, a plat of which has been recorded in the Office of the Register of Deeds of the county prior to the adoption of this chapter, or a lot described by metes and bounds, the description of which has been so recorded prior to the adoption of this chapter.

LOT WIDTH. The distance between side and lot lines measured at the building setback line.

MAP AMENDMENT. See “Zoning Map Amendment.”

MANUFACTURED HOME OR MOBILE HOME. A structure as defined by G.S. 143-145(7) as having a permeant foundation and having a measurement of over 32 feet in length and over eight feet in width. "Manufactured home" also means a double-wide manufactured home, which is two or more

portable manufactured housing units designed for transportation on their own chassis that connect on site for placement on a temporary or semi-permanent foundation having a measurement of over 32 feet in length and over eight feet in width.

MANUFACTURED HOME OR MOBILE HOME PARK. Any lot or part thereof, or any parcel of land which is used or offered as a location for six or more mobile homes used for residential purposes.

MANUFACTURED HOME OR MOBILE HOME SUBDIVISION. A subdivision designed and intended primarily for sale of lots for residential occupancy by mobile homes.

NONCONFORMING USE OR STRUCTURE. Any use of a building, structure, or land which does not conform to the use regulations of this chapter for the district in which it is located, either at the effective date of this chapter or as a result of subsequent amendments which may be incorporated into this chapter.

OFFICIAL MAPS OR PLANS. Any maps or plans officially adopted by the Board of Commissioners.

OPEN SPACE. Unroofed area, whether fenced or not.

PARKING SPACE. A storage space for one automobile, plus the necessary access space. Parking space sizes shall be governed by the following:

(1) Angle parking minimum - eight and one-half feet x 20 feet (measured parallel to the vehicle).

(2) Ninety-degree parking minimum - nine feet x 20 feet.

(3) Parallel parking minimum - ten feet x 20 feet.

PERSON. Includes a firm, association, corporation, trust company, as well as an individual.

PROPERTY OWNER. A person, corporation, partnership, association, trust or other legal entity, or any combination thereof, that has exclusive rights and control over property, which may include a land or real estate, building(s) or dwelling(s).

PUBLIC SEWAGE DISPOSAL SYSTEM. A sanitary sewage disposal system with 3,000 gallons or more design capacity and/or whose effluent is discharged to surface water. This system shall be approved under rules and regulations promulgated by the North Carolina Department of Natural Resources and Community Development, Division of Environmental Management.

PUBLIC WATER SUPPLY SYSTEM. An approved water supply system serving ten or more residences or businesses or combination of both, including municipal and sanitary district water systems as well as water systems designed to serve particular subdivisions at full development and constructed to specifications approved by the Sanitary Engineering Section, Division of Health Services, North Carolina Department of Human Resources.

QUASI-JUDICIAL DECISION. A decision involving the finding of facts regarding a specific application of a development regulation and that requires the exercise of discretion when applying the standards of the regulation. The term includes, but is not limited to, decisions involving variances, special use permits, certificates of appropriateness, and appeals of administrative determinations. Decisions on the approval of subdivision plats and site plans are quasi-judicial in nature if the regulation authorizes a decision-making board to approve or deny the application based not only upon whether the application complies with the specific requirements set forth in the regulation, but also on whether the application complies with one or more generally stated standards requiring a discretionary decision on the findings to be made by the decision-making board.

REZONING. See "Zoning Map Amendment."

SERVICE STATION. A building or lot dedicated to the rendering of services such as the sale of gasoline, oil, grease, and accessories, and the minor repair of automobiles, excluding body working overhauling, and painting.

SETBACK LINES. The line on the front, rear, and sides of a lot which delineates the area within which a structure may be built and maintained, according to the district regulations.

SHALL. Is always mandatory and not merely directory.

SHOPPING CENTER. Two or more commercial establishments planned and constructed, as a single unit with off-street parking and loading facilities provided on the property and related inlocation, size, and type shops to the trade area which the unit serves.

SIGN. An advertising or announcement device used to attract attention or to disseminate information. Sign restrictions in this chapter shall not apply to the following: traffic control devices; legal notices; noncommercial use of flags and insignias; mailbox numbers and names; house numbers and names; and noncommercial names of premises or occupants thereof which have areas of one square foot or less.

SIGN, ACCESSORY. An advertising device used to disseminate information concerning a person, place, or thing, pertaining to the use of the land upon which it is located.

SIGN AREA. The sign area shall be computed by the smallest square, triangle, rectangle, circle, or combination thereof, which will encompass the entire advertising copy area. A "V" type back-to-back or double-face sign shall be considered as the area of a single face.

SIGN, INDEPENDENT. One advertising device used to disseminate information concerning a person, place, or thing, not pertaining to the use of the land upon which it is located.

SITE PLAN. A scaled drawing and supporting text showing the relationship between lot lines and the existing or proposed uses, buildings, or structures on the lot. The site plan may include site-specific details such as building areas, building height and floor area, setbacks from lot lines and street rights-of-way, intensities, densities, utility lines and locations, parking, access points, roads, and stormwater control facilities that are depicted to show compliance with all legally required development regulations

that are applicable to the project and the site plan review. A site plan approval based solely upon application of objective standards is an administrative decision and a site plan approval based in whole or in part upon the application of standards involving judgment and discretion is a quasi-judicial decision. A site plan may also be approved as part of a conditional zoning decision.

SLEEPING UNIT. A room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities, but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.

SPECIAL USE PERMIT. A permit issued to authorize development or land uses in a particular zoning district upon presentation of competent, material, and substantial evidence establishing compliance with one or more general standards requiring that judgment and discretion be exercised as well as compliance with specific standards. The term includes permits previously referred to as conditional use permits or special exceptions.

STORY. That portion of a principal building included between the surface of any floor and the surface of the next floor above, or if there is no floor above, the space between the floor and the ceiling next above. A basement shall not be counted as a ***STORY.***

STORY, HALF. A story which is situated in a sloping roof, the floor area of which does not exceed two-thirds of the floor area of the story immediately below it, and which does not contain an independent dwelling unit.

STREET. A dedicated and accepted public right-of-way for vehicular traffic which affords access to abutting properties.

STRUCTURE. Anything constructed or erected, the use of which requires more or less permanent location on the ground or which is attached to something having more or less permanent location on the ground. Shall include the word "building."

SUBDIVISION. The division of land for the purpose of sale or development as specified in G.S. 160D-802.

USE. The purpose for which land or a building or structure is arranged, designed, or intended, or for which either land or a building or structure is, or may be, occupied or maintained.

USED FOR. Shall include the meaning "designed for."

VARIANCE. A modification of the existing zoning ordinance by the Planning Board [serving as the Board of Adjustment] when strict enforcement of this chapter would cause undue hardship owing to circumstances unique to the individual property on which the variance is granted.

VESTED RIGHT. The right to undertake and complete the development and use of property under the terms and conditions of an approval secured as specified in G.S. 160D-108 or under common law.

YARD. An open space on the same lot with a principal building, unoccupied and unobstructed by any structure from the surface of the ground upward except for drives, sidewalks, lamp posts, entrance steps, retaining walls, fences, landscaping, and as otherwise provided herein.

YARD, FRONT. An open space on the same lot with a principal building, between the front line of the building (exclusive of steps) and the front property or street right-of-way line and extending across the full width of the lot.

YARD, REAR. An open space between the rear line of the principal building (exclusive of steps) and the rear property line and extending the full width of the lot.

YARD, SIDE.

(1) An open space between the building and the adjacent side lot line which is open and unobstructed from the surface of the ground upward by any structure other than:

(a) Sills, belt courses, and ornamental features not to exceed six inches;

(b) Cornices, roof overhang, and fixed awnings not to exceed two feet, provided that no cornice, roof overhang, or fixed awning shall be less than two feet from any lot lines;

(c) Open fire escapes, unenclosed porches, balconies, or patios not to exceed five feet; and

(d) Ordinary projection of chimneys and pilasters when placed so as not to obstruct light and ventilation.

(2) The ***SIDE YARD*** extends from the rear line of the front yard to the front line of the rear yard, or to the appropriate property line if front or rear yards are required by this chapter.
(1999 Code, § 150.04) (Ord. passed 7-24-1989)

ZONING MAP AMENDMENT. An amendment to a zoning regulation for the purpose of changing the zoning district that is applied to a specified property or properties. The term also includes (i) the initial application of zoning when land is added to the territorial jurisdiction of a local government that has previously adopted zoning regulations and (ii) the application of an overlay zoning district or a conditional zoning district. The term does not include (i) the initial adoption of a zoning map by a local government, (ii) the repeal of a zoning map and readoption of a new zoning map for the entire planning and development regulation jurisdiction, or (iii) updating the zoning map to incorporate amendments to the names of zoning districts made by zoning text amendments where there are no changes in the boundaries of the zoning district or land uses permitted in the district.

§ 150.005 APPLICATION OF REGULATIONS.

The regulations set forth in this chapter affect all land, every building, and every use of land and/or building and shall apply as follows.

(A) *New uses or construction.* After the effective date of this chapter, all new construction shall conform to the use, area, and bulk regulations for the district in which it is to be located.

(B) *Conforming uses.* After the effective date of this chapter, land or structures, or the uses of land or structures which conform to the regulations for the district in which it is located, may be continued provided that any structural alteration or change in use shall conform with the regulations herein specified for the district in which it is located.

(C) *Nonconforming uses.* After the effective date of this chapter, land, lots, or structures, or the uses of land, lots, or structures which would be prohibited under the regulations for the district in which it is located, shall be considered as nonconforming. It is the intent of this chapter to permit these nonconformities to continue until they are removed, but not to encourage their continued use. Nonconforming structures or uses may be continued provided they conform to the provisions of § 150.006.
(1999 Code, § 150.05) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.006 CONTINUATION OF NONCONFORMING USES.

(A) *Nonconforming Lots.*

(1) *Applicability.* A nonconforming lot is a lot of record existing on the effective date of this chapter or any amendment to it that does not meet the dimensional requirements for the zoning district in which the lot is located. A nonconforming vacant lot of record is one that was recorded by plat or description in the Edgecombe County Register of Deeds prior to the adoption of this chapter or prior to the time that the lot was brought into the Town's planning and development regulation jurisdiction. This definition shall not be interpreted to include recorded lots that were in violation of any prior zoning regulations of the Town and which will remain in violation.

(2) *Standards.*

(a) When two or more adjoining lots of record with continuous frontage, where no more than one is developed, are owned by one property owner [see Section § 150.004 DEFINITIONS] at any time after the adoption of this ordinance, and such lots individually or together are less than the minimum square footage and/or have less than the minimum width required in the zoning district in which they are located, then such lot(s) shall be combined to create lots which attempt to meet the minimum size requirements or which minimize the degree of nonconformity.

(b) Except as set forth in Subsection (a) above, in any zoning district in which residential dwellings are permitted, any lot of record existing at the time of the adoption of this chapter which has dimensions which are less than required by these regulations may be used as a building site for a residential dwelling with related accessory buildings, provided that the lot area and width are not less than 80% of the requirements in the district.

(B) Extensions of use. Any non-conforming use of land or structure, shall not hereafter be enlarged or extended in any way which serves to increase the nature of non-conformity, except where the non-conforming use is a residential structure used exclusively for dwelling purposes, said structure is a permitted use and the proposed addition shall conform to all zoning requirements.

(C) *Change of use.* Any legally established nonconforming use may be continued subject to the standards listed in this ordinance. However, once a nonconforming use is made conforming, it may not later be used for any nonconforming use or expanded in violation of this ordinance.

(D) *Cessation of use.* If active operations are discontinued for a continuous period of six months with respect to a nonconforming use, such nonconforming use shall thereafter be used only for

a conforming use. Should any nonconforming structure or use of land be moved for any reason for any distance whatever, it shall thereafter conform to the regulations for the district in which it is relocated.

(E) *Repairs and alterations.* Normal maintenance, repair, and incidental alteration in a building occupied by a nonconforming use is permitted provided it does not extend the nonconforming use.

(F) *Damage or destruction.*

(a) If a building occupied by a nonconforming use or nonconforming building is destroyed by any means to an extent of more than 75% of its appraised value for tax purposes at the time of destruction, such building may not be restored for any nonconforming use.

(b) The above requirement does not apply to residential dwellings and accessory buildings or structures. Structures meeting these classifications may be reconstructed as long as such reconstruction does not increase the nonconformity of the original structure.

(c) A step, stoop, open porch, awnings or other appurtenances may extend up to fifty (50) percent into the front setback, provided such features do not impede pedestrian circulation. Where approved by the Zoning Enforcement Officer, wheelchair ramps may encroach up to 6 inches from any property line as long as there is no impact to the sight triangle at a driveway or intersection.

(G) *Temporary nonconforming uses of land.* Temporary nonconforming uses of land may be permitted according to the provisions of § 150.097.

(1999 Code, § 150.06) (Ord. passed 7-24-1989)

§ 150.007 CONFLICT WITH OTHER LAWS.

(A) It is not intended by this chapter to repeal, abrogate, annul, impair, or interfere with any existing easements, covenants, deed restriction agreements, ordinances, rules, regulations, or permits previously adopted or issued pursuant to law.

(B) However, wherever this chapter imposes greater restrictions, the provisions of this chapter shall govern. Wherever the provisions of any other statute or local ordinance or regulation require a greater width or side of yard or courts or require a lower height of building or a less number of stories or require a greater percentage of lots to be left unoccupied, or impose other standards than are required by the regulations made under authority of this chapter, the provisions of such statute or local ordinance or regulation shall govern.

(1999 Code, § 150.07) (Ord. passed 7-24-1989)

§ 150.008 VESTED RIGHTS AND PERMIT CHOICE

(A) Vested Rights. Vested rights shall be determined by the Zoning Enforcement Officer per G.S. § 160D-108(c).

(B) Permit Choice. Per G.S. § 160D-108(b), if an application is submitted for a development approval required pursuant to this Chapter and a development regulation changes between the time the application was submitted and a decision is made, or if a development regulation is amended after a development permit decision has been challenged and found to be wrongfully denied or illegal, the applicant may choose which version of the development regulation will apply to the application. If the applicant chooses the version of the rule or ordinance applicable at the time of the permit application, the applicant shall not be required to await the outcome of the amendment to the rule, map, or ordinance prior to acting on the development permit. This section applies to all development approvals issued by the State and Town.

(1999 Code, § 150.08) (Ord. passed 7-24-1989)

GENERAL REGULATIONS

§ 150.020 OPEN SPACE REQUIREMENTS.

No part of a yard, court, or other open space provided around any building or structure for the purpose of complying with the provisions of this chapter shall be included as a part of a yard or other open space required under this chapter for another building or structure.
(1999 Code, § 150.20) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.021 REDUCTION OF LOT AND YARD AREAS PROHIBITED.

No yard or lot existing at the time of passage of this chapter shall be reduced in size or area below the minimum requirements set forth herein. Yards or lots created after the effective date of this chapter shall meet at least the minimum requirements established by this chapter.
(1999 Code, § 150.21) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.022 OFFICIAL ZONING MAP.

(A) The boundaries of each zoning district are shown on a map entitled *Town of Princeville Official Zoning Map* which is hereby made a portion of this chapter. The official zoning map shall bear the adoption date of this chapter and the signatures of the Mayor and the Town Clerk.

(B) All zoning amendments affecting the material displayed on the official zoning map shall be certified on this map by the Town Clerk, along with the amendment date.

(C) Copies of the zoning district map reproduced by any method of reproduction that gives legible and permanent copies, when certified by the local government clerk in accordance with G.S. 160A-79 or 153A-50, shall be admissible in evidence and shall have the same force and effect as would the original map.

(D) Per G.S. 160D-105, zoning district boundaries adopted pursuant to this Chapter shall be drawn on a map that is adopted or incorporated within a duly adopted development regulation. Zoning district maps that are so adopted shall be maintained for public inspection in the office of the local government clerk or such other office as specified in the development regulation. The maps may be in paper or a digital format approved by the local government.

(1999 Code, § 150.22) (Ord. passed 7-24-1989)

§ 150.023 INTERPRETATION OF DISTRICT BOUNDARIES.

When uncertainty exists with respect to the boundaries or districts as shown on the official zoning map, the following rules shall apply.

(A) *Delineation.* District boundary lines are generally intended to be along or parallel to property lines, lot lines, centerlines of streets, alleys, railroads, easements, other rights-of-way, and creeks, streams, or other water channels.

(B) *Official zoning map.* In the absence of specified distances on the map, dimensions or distances shall be determined by the scale of the official zoning map.

(C) *Board of Adjustment.* When the street or property layout existing on the ground is at odds with that shown on the official zoning map, the Planning Board [serving as the Board of Adjustment] shall interpret the district boundaries of this chapter.

(1999 Code, § 150.23) (Ord. passed 7-24-1989)

§ 150.024 INTERPRETATION OF DISTRICT REGULATIONS.

Uses not designated as permitted uses shall be prohibited. Additional uses where in character with the district may be added to the ordinance by amendment.

(1999 Code, § 150.24) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.025 MORE THAN ONE PRINCIPAL BUILDING ON A LOT.

In any district, more than one building housing a principal permitted use may be erected on a single lot, provided all requirements of this chapter shall be met for each building as though it were on an individual lot.

(1999 Code, § 150.25) (Ord. passed 7-24-1989)

§ 150.026 LOCATION OF ACCESSORY USES OR BUILDINGS.

Accessory buildings may be erected in any required side or rear yards, provided no separate accessory building shall be erected within ten feet of any other building, or within five feet from any lot lines. No accessory building shall be located on the side yard required on the street side of a corner lot.

(1999 Code, § 150.26) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.027 STREET ACCESS.

No building shall be erected on a lot which does not abut an open street which is either a public street, a publicly-maintained street, or an alley.

(1999 Code, § 150.27) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.028 LOTS WITH MULTIPLE FRONTAGE.

In the case of a corner lot having frontage on two or more streets, all buildings shall be set back from each such street a distance equal to the minimum for the front yard requirement for the district. If a building is constructed on a lot having frontage on two roads but not at an intersection, a setback from each road shall be provided equal to the front yard requirement for the district in which the lot is located.

(1999 Code, § 150.28) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.029 MINIMUM FRONTAGE.

Where a minimum frontage is specified in these regulations, it shall be measured at the front yard setback line.

(1999 Code, § 150.29) (Ord. passed 7-24-1989)

ZONING DISTRICT REGULATIONS

§ 150.040 ZONING DISTRICTS DESIGNATED.

For the purpose of this chapter, the town is hereby divided into the following zoning districts which are hereby given the following designations:

(A) R-1 Residential 1 District;

(B) R-2 Residential 2 District;

(C) R-3 Residential 3 District;

(D) HP-DC Historic Princeville - Downtown Core District;

(E) MXU Mixed-Use District;

(F) C Commercial District;

(G) I Industrial District; and

(H) RA-1 Residential-Agricultural District.

(1999 Code, § 150.40) (Ord. passed 7-24-1989)

§ 150.041 R-1 RESIDENTIAL 1 DISTRICT.

(A) *Establishment; purpose.* The R-1 Residential 1 District is established as a district in which the principal use of land is for residential purposes. The regulations of this district are intended to discourage any use which because of its character would be a nuisance to the development of residences and would be detrimental to the quiet residential nature of the areas included within this district.

(B) Permitted uses.

(1) Single-family dwelling attached and two-family dwellings (duplexes).

(2) Religious Institutions.

(3) Farming and nurseries.

(4) Home occupations, such as dressmaking, catering, baking, hairdressing, laundering, cooking, designing, accounting, and the practice of law, medicine, and dentistry, shall be permitted as accessory uses in a residence or accessory building thereof, provided that such operation shall be engaged in only by residents of the premises, that not more than 25% of the gross floor area of the residence shall be used for such occupation, that no display or products shall be visible from the streets, and no objectionable effects shall be produced or treated.

(5) Lodging or boarding provided not more than 50% of the gross floor area in one dwelling is devoted to such occupancy.

(6) Public recreation facilities, including community centers, parks, ballparks, playgrounds, assembly halls, swimming pools, athletic courts, and other such facilities.

(7) Public utilities, utility substations, pumping stations, utility towers, storage tanks, provided that each of the above uses is set back a minimum of 50 feet from all property lines.

(8) Rest homes and nursing homes.

(9) Schools, public, and state licensed private.

(10) Signs, accessory: provided no more than two signs are displayed, and these must be on the same lot with the use being advertised. Indirectly illuminated signs shall be permitted only if the signs are located more than 100 feet from residential dwellings or adjacent lots. Maximum sign area for cemeteries, religious institutions, medical centers, parks, playgrounds, and schools shall be 15 square feet. Maximum sign surface area for all other permitted signs shall be six square feet.

(11) Uses and buildings customarily accessory to the above permitted uses.

(C) *Special use permits.* After due notice and a public hearing and subject to the conditions and safeguards imposed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below, subject to the requirements of § 150.064.

(1) Group housing projects.

(2) Medical clinics

(3) Hospitals.

(4) Public Safety stations.

(5) Cemeteries.

(6) Funeral homes.

(7) Libraries.

(8) Day care centers and nursery schools.

(9) Multi-family dwellings, including townhouses, apartments, condominiums, and cooperatives.

(10) Uses and buildings customarily accessory to the above permitted special uses.

(D) Dimensional requirements.

(1) *Lot areas.* Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use (with septic tank and well) - 20,000 square feet.

(b) Minimum required lot area for each permitted use or special use (with either septic tank or well) - 10,000 square feet.

(c) Minimum required lot area for each permitted use or special use (with public water and public sewer) - 10,000 square feet.

(d) Minimum required lot area for each dwelling unit of a duplex (with public water and public sewer) - 8,000 square feet.

(e) Minimum required lot area for each multi-family dwelling unit (with public water and sewer) - 5,000 square feet.

(2) *Lot width.* Minimum required lot width - 75 feet.

(3) Yard requirements.

(a) Minimum required depth of front yard - 30 feet.

(b) Minimum required width of any residential side yard - ten feet.

(c) Minimum required width of any nonresidential side yard - 15 feet.

(d) Minimum required depth of any rear yard - 25 feet.

(4) *Supplementary district regulations.* All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the residential district. In addition, all new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

(1999 Code, § 150.41) (Ord. passed 7-24-1989)

§ 150.042 R-2 RESIDENTIAL 2 DISTRICT.

(A) *Establishment; purpose.* The R-2 Residential 2 District is established as a district in which the principal use of land is for residential purposes. The regulations of this district are intended to discourage any use which because of its character would be a nuisance to the development of residences and would be detrimental to the quiet residential nature of the areas included within this district.

(B) Permitted uses.

(1) Any use permitted in the R-1 Residential District.

(2) Manufactured Homes or Mobile homes.

(C) *Special use permits.* After due notice and public hearing and subject to conditions and safeguards to be fixed by the Board of Commissioners in each case a special use permit may be granted by the Board of Commissioners for uses listed below, subject to the requirements of §§ 150.060 through 150.064 of this chapter: those special uses permitted in the R-1 Residential District.

(D) Dimensional requirements.

(1) *Lot areas.* Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use (with septic tank and well) - 20,000 square feet.

(b) Minimum required lot area for each permitted use or special use (with either septic tank or well) - 15,000 square feet.

(c) Minimum required lot area for each residential permitted use or residential special use (with public water and public sewer) - 10,000 square feet.

(d) Minimum required lot area for each dwelling unit of a duplex (with public water and public sewer) - 6,000 square feet.

(e) Minimum required lot area for each multi-family dwelling unit (with public water and sewer) - 4,000 square feet.

(f) Minimum required lot area for each nonresidential permitted use or nonresidential special use (with public water and sewer) - 15,000 square feet.

(2) *Lot width.* Minimum required lot width - 75 feet.

(3) Yard requirements.

(a) Minimum required depth of front yard - 30 feet.

(b) Minimum required width of any residential side yard - eight feet.

(c) Minimum required width of any nonresidential side yard - 15 feet.

(d) Minimum required depth of any rear yard - 25 feet.

(E) *Supplementary district regulations.* All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the Residential 2 District. In addition, all new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

(1999 Code, § 150.42) (Ord. passed 7-24-1989)

§ 150.043 R-3 RESIDENTIAL 3 DISTRICT.

(A) *Establishment; purpose.* The R-3 Residential 3 District is established as a district in which the principal use of land is for a variety of residential living styles including single-family and duplex homes, apartments, and mobile home parks. The regulations of this district are intended to discourage any use which because of its character would be a nuisance to the development of residences and would be detrimental to the quiet residential nature of the areas included in this district.

(B) *Permitted uses.* Any use permitted in the R-1 Residential 1 District.

(C) *Special use permits.* After due notice and public hearing and subject to conditions and safeguards to be fixed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below, subject to the requirements of § 150.064.

(1) Those special uses permitted in the R-1 Residential District.

(2) Mobile home parks.

(D) Dimensional requirements.

(1) *Lot areas.* Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use (with septic tank and well) - 20,000 square feet.

(b) Minimum required lot area for each permitted use or special use (with either septic tank or well) - 15,000 square feet.

(c) Minimum required lot area for each residential permitted use or residential special use (with public water and public sewer) - 10,000 square feet.

(d) Minimum required lot area for each dwelling unit of a duplex (with public water and public sewer) - 6,000 square feet.

(e) Minimum required lot area for each multi-family dwelling unit (with public water and sewer) - 4,000 square feet.

(f) Minimum required lot area for each mobile home in a mobile home park (with public water and sewer) - 10,000 square feet.

(g) Minimum required lot area for each mobile home in a mobile home park (with either a septic tank or well) - 15,000 square feet.

(h) Minimum required lot area for each mobile home in a mobile home park (with septic tank and well) - 20,000 square feet.

(i) Minimum required lot area for each nonresidential permitted use or nonresidential special use (with public water and sewer) - 15,000 square feet.

(2) *Lot width.* Minimum required lot width - 75 feet.

(3) Yard requirements.

(a) Minimum required depth of front yard - 30 feet.

(b) Minimum required width of any residential side yard - eight feet.

(c) Minimum required width of any nonresidential side yard - 15 feet.

(d) Minimum required depth of any rear yard - 25 feet.

(E) *Supplementary district regulations.* All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the Residential 3 Districts. In addition, all new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

(1999 Code, § 150.43) (Ord. passed 7-24-1989)

§ 150.044 RA-1 RESIDENTIAL-AGRICULTURAL DISTRICT.

(A) *Establishment; purpose.* This district is established to promote a compatible mixture of agricultural, forestry, conservation, commercial, industrial and low-density residential uses where available public services may be limited. Protection of the environment, preservation of prime farmland, and the continuation of rural lifestyles are goals this district seeks to attain.

(B) *Permitted uses.* See Table of Permitted Uses.

(C) Dimensional requirements.

1. Lot areas. Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use - 40,000 square feet.

2. Lot width. Minimum required lot width - 100 feet.

(D) Yard requirements.

(E) Minimum required depth of front yard - 50 feet.

(F) Minimum required width of any residential side yard – 25 feet.

(G) Minimum required width of any nonresidential side yard - 50 feet.

(H) Minimum required depth of any rear yard - 35 feet.

(I) Supplementary district regulations. All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the residential district. In addition, all new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

§ 150.045 HP-DC HISTORIC PRINCEVILLE - DOWNTOWN CORE DISTRICT

(A) *Establishment; purpose.* The HP-DC Historic Princeville-Downtown Core District is established as the historic core of the Town. It is the gateway to the community and includes a mixture of uses, primarily residential, commercial, and civic. This is also an area in Princeville where frequent flooding occurs, so any new developments should be built with flood proofing techniques and resiliency in mind.

(B) *Permitted uses.*

(1) Single-family dwelling detached & attached (townhomes)

(2) Two-family dwellings (duplex)

(3) Triplexes

(4) Quadplexes

(5) Religious Institutions.

(6) Banks & Financial Institutions.

(7) General Commercial (10,000 square feet or less).

(8) Personal Care Services such as barber & beauty shops, tailors, nail salons, etc.

(9) Offices; business, professional, and governmental.

(10) Restaurants (non-drive-thru)

(11) Day Care Centers

(12) Medical Clinics

(13) Post Office

(14) Public Safety Station

(15) Museum

(16) Library

(17) Community Gardens

(18) Farming & Nurseries

(19) Home occupations, such as dressmaking, catering, baking, hairdressing, laundering, cooking, designing, accounting, and the practice of law, medicine, and dentistry, shall be permitted as accessory uses in a residence or accessory building thereof, provided that such operation shall be engaged in only by residents of the premises, that not more than 25% of the gross floor area of the residence shall be used for such occupation, that no display or products shall be visible from the streets, and no objectionable effects shall be produced or treated.

(20) Public recreation facilities, including community centers, parks, ballparks, playgrounds, assembly halls, swimming pools, athletic courts, and other such facilities.

(21) Public utilities, utility substations, pumping stations, utility towers, storage tanks, provided that each of the above uses is set back a minimum of 50 feet from all property lines.

(22) Signs, accessory: provided no more than two signs are displayed, and these must be on the same lot with the use being advertised. Maximum sign area for non-residential uses shall be 15 square feet. Maximum sign surface area for all other permitted signs shall be six square feet.

(23) Uses and buildings customarily accessory to the above permitted uses.

(C) Special use permits. After due notice and a public hearing and subject to the conditions and safeguards imposed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below, subject to the requirements of § 150.064.

(1) Cemeteries.

(2) Funeral homes.

(3) Parking lots (standalone).

(4) Hotel/Inn

(5) Group Housing

(D) Dimensional requirements.

(1) Lot areas. Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use (with septic tank and well) - 20,000 square feet.

(b) Minimum required lot area for each permitted use or special use (with either septic tank or well) - 10,000 square feet.

(c) Minimum required lot area for each permitted use or special use (with public water and public sewer) - 4,000 square feet.

(d) Minimum required lot area for each additional dwelling unit of a duplex, triplex or quadplex (with public water and public sewer) - 2,000 square feet.

(2) Lot width. Minimum required lot width - 40 feet.

(3) *Yard requirements.

(a) Minimum required depth of front & street corner yard - 10 feet.

(b) Minimum required width of any side yard - 5 feet.

(c) Minimum required depth of any rear yard - 10 feet.

(d) *Modifications

(i) The Zoning Enforcement Officer shall reduce the minimum front setback f or any lot where the average established front yard on developed lots located within 300 feet on each side of such lot, and fronting on the same street as such lot, is less than the minimum required yard. In such cases, the minimum front or street yard shall be the average of the existing front yards on the developed lots within 300 feet of each side.

(ii) Steps, stoops, open porches, awnings or other appurtenances may extend up to fifty (50) percent into the front setback, provided such features do not impede pedestrian circulation. Where approved by the Zoning Enforcement Officer, wheelchair ramps may encroach up to 6 inches from any property line as long as there is no impact to the sight triangle at a driveway or intersection.

(4) Supplementary district regulations.

(a) All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the Historic Princeville - Downtown Core District.

(b) All new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

(c) All new residential structures and substantial improvements to existing residential structures (as defined in the Town of Princeville Flood Damage Prevention Ordinance), shall be built to an elevation of four (4) above the base flood elevation to prevent future flood damage.

(d) All new non-residential structures and substantial improvements to existing non-residential structures (as defined in the Town of Princeville Flood Damage Prevention Ordinance), shall be built to an elevation of two (2) above the base flood elevation to prevent future flood damage and provide floodproofing measures per the Town of Princeville Flood Damage Prevention Ordinance.

§ 150.046 MXU MIXED-USE DISTRICT

(A) *Establishment; purpose.* The MXU Mixed-Use District is established to accommodate a variety of commercial, civic and residential uses. Commercial uses may include highway orientated businesses, retail, restaurants and offices. A variety of residential uses are permitted with higher densities near commercial areas to promote walkability. A variety of residential options are allowed including apartments, townhomes, and single-family dwellings.

(B) Permitted uses.

(1) Single-family dwelling detached & attached (townhome)

(2) Two-family dwellings (duplex)

(3) Triplexes

(4) Quadplexes

(5) Multi-family developments (apartments)

(6) Religious Institutions.

(7) Banks & Financial Institutions.

(8) General Commercial such as florists, hardware stores, grocery stores, pharmacies, etc.

(9) Personal Care Services such as barber & beauty shops, tailors, nail salons, etc.

(10) Offices; business, professional, and governmental.

(11) Restaurants (sit down & drive-thru)

(12) Post Office

(13) Public Safety Stations

(14) Museum

(15) Library

(16) Community Gardens

(17) Home occupations, such as dressmaking, catering, baking, hairdressing, laundering, cooking, designing, accounting, and the practice of law, medicine, and dentistry, shall be permitted as accessory uses in a residence or accessory building thereof, provided that such operation shall be engaged in only by residents of the premises, that not more than 25% of the gross floor area of the residence shall be used for such occupation, that no display or products shall be visible from the streets, and no objectionable effects shall be produced or treated.

(18) Recreation facilities, including community centers, parks, ballparks, playgrounds, assembly halls, swimming pools, athletic courts, and other such facilities.

(19) Public utilities, utility substations, pumping stations, utility towers, storage tanks, provided that each of the above uses is set back a minimum of 50 feet from all property lines.

(20) Signs, accessory: provided no more than two signs are displayed, and these must be on the same lot with the use being advertised. Maximum sign area for non-residential uses shall be 15 square feet. Maximum sign surface area for all other permitted signs shall be six square feet.

(21) Uses and buildings customarily accessory to the above permitted uses.

(22) Medical clinics.

(23) Day care centers & rest homes.

(24) Hotel/Inn

(25) Convenience Stores/Gasoline Sales

(C) Special use permits. After due notice and a public hearing and subject to the conditions and safeguards imposed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below, subject to the requirements of § 150.064.

(1) Cemeteries.

(2) Funeral homes.

(3) Vehicle Sales & Repairs

(D) Dimensional requirements.

(1) Lot areas. Minimum required lot area shall be determined according to the following uses and conditions.

(a) Minimum required lot area for each permitted use or special use (with septic tank and well) - 20,000 square feet.
(b) Minimum required lot area for each permitted use or special use (with either septic tank or well) - 10,000 square feet.
(c) Minimum required commercial or multi-family lot area for each permitted use or special use (with public water and public sewer) - 10,000 square feet.
(d) Minimum required single-family attached lot area for each permitted use (with public

water and public sewer) – 5,000 square feet.

(2) Lot width. Minimum required lot width - 50 feet.

(3) Yard requirements.

(a) Minimum required depth of front & street corner yard - 25 feet.

(b) Minimum required width of any side yard - 10 feet.

(c) Minimum required depth of any rear yard - 25 feet.

(C) All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the Mixed-Use District.

(D) In addition, all new developments shall also meet the Design Standards of Article 4 in the Town's Subdivision Ordinance.

(E) Developments using the mixed-use zoning district shall provide a minimum of 15% allocation of gross area for non-residential land uses.

(1) To ensure compliance with the intent and standards for a mix of uses within the MXU district, a maximum fifty (50) percent of the residential units may be permitted until at least twenty-five (25) percent of the approved nonresidential square footage is permitted (issue of a building permit).

(2) The remaining residential units may be permitted upon approval of at least fifty (50) percent of approved non-residential square footage.

(3) The standards in may be modified as part of an approved development agreement or conditional zoning approval by the Board of Commissioners.

§ 150.047 C COMMERCIAL DISTRICT.

(A) *Establishment; purpose.* The C Commercial District is established as a district in which the principal use of land is for those retail trade purposes, which are properly located near residential areas and which cater to the everyday needs of a residential neighborhood.

(B) *Permitted uses.*

(1) Banks and financial institutions.

(2) General commercial uses such as florists, hardware stores, grocery stores, pharmacies, etc.

(3) Personal Care Services such as barber & beauty shops, tailors, nail salons, etc.

(4) Funeral homes.

(5) Post offices.

(6) Laundries, launderettes, and dry-cleaning establishments.

(7) Libraries.

(8) Offices; business, professional, and governmental.

(9) Parking lots (standalone).

(10) Taxicab call stands.

(11) Restaurants (sit down & drive-thru).

(12) Public Safety Stations

(13) Convenience Stores/Gasoline Sales

(14) Vehicle Sales & Repairs

(15) Accessory signs, provided that they are stationary and are not located within 50 feet of any residential structure or district; provided further that not more than one sign structure shall be allowed per 100 feet or less of lot frontage in single ownership.

(16) Signs may be indirectly illuminated but shall not be flashing. No sign shall be more than 30 square feet.

(17) Storage; provided it is within a building and the use is not visible from outside the building.

(18) Uses and buildings customarily accessory to the above permitted uses.

(C) *Special use permits.* After due notice and public hearing and subject to the conditions and safeguards imposed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below.

(D) *Dimensional requirements.*

(1) *Lot areas.* Minimum required lot area shall be determined according to the following uses and conditions:

(a) Minimum lot size for each permitted use (with septic tank and well) - 20,000 square feet.

(b) Minimum required lot size for each permitted use (with either septic tank or well) - 15,000 square feet.

(c) Minimum required lot size for each permitted use (with public water and sewer) - 15,000 square feet.

(2) Yard requirements.

(a) Minimum required depth of front yard shall be 20 feet which shall be developed for sidewalks, grass, and plants, and the necessary driveways. Off-street parking shall not be permitted in

this area.

(b) Minimum required depth of rear yard - 20 feet.

(c) Minimum required side yard - ten feet.

(E) *Supplementary district regulations.* All supplementary district regulations stated in §§ 150.060 through 150.064 of this chapter shall apply to the Commercial District. In addition, all new developments shall also meet the applicable Design Standards of Article 4 in the Town's Subdivision Ordinance.
(1999 Code, § 150.44) (Ord. passed 7-24-1989)

§ 150.048 I INDUSTRIAL DISTRICT.

(A) *Establishment; purpose.* The I Industrial District is established as a district in which the principal use of the land is for industries which can be operated in a relatively clean and quiet manner and will not be a nuisance to adjacent residential or commercial districts. The regulations are designed to prohibit the use of land for heavy industry which should be properly segregated and to prohibit any other use which would substantially interfere with the development of industrial establishments in the district.

(B) *Special use permits.* After due notice and public hearing and subject to conditions and safeguards to be fixed by the Board of Commissioners, in each case a special use permit may be granted by the Board of Commissioners for uses listed below. Proposed uses that include hazardous materials in storage or production shall be prohibited in the Special Flood Hazard Areas.

(1) Amusement, recreation, and sporting goods manufacture.

(2) Animal hospitals.

(3) Automobile parts and accessories manufacturing.

(4) Bottling and canning plants.

(5) Bedding and carpet manufacturing.

(6) Building materials sales.

(7) Business machine manufacturing.

(8) Clothing manufacturing.

(9) Construction offices and equipment storage.

(10) Drugs, medicines, and cosmetics manufacturing.

(11) Electronic equipment manufacturing.

(12) Farm machinery assembly, repair, and sales.

(13) Furniture manufacturing.

(14) Hardware and housewares manufacturing.

(15) Leather product manufacturing, not including the manufacture of leather.

(16) Offices.

(17) Office parks.

(18) Paper products manufacturing, not including the manufacture of paper.

(19) Petroleum, bulk storage, provided that all fire and safety regulations are met.

(20) Plastic products manufacturing.

(21) Printers.

(22) Research laboratories.

(23) Signs: Accessory provided they do not project into any public street or alley. Not more than two accessory signs shall be permitted per principal use per lot.

(24) Storage yards, provided such yards are enclosed by a solid screening wall or fence at least six feet in height.

(25) Textile and cordage manufacturing.

(26) Uses and buildings customarily accessory to the above permitted uses.

(C) Dimensional requirements.

(1) Lot size.

(a) Minimum required lot width - 100 feet.

(b) Minimum required lot depth - 150 feet.

(c) Minimum required lot size - 40,000 square feet.

(2) Yard requirements.

(a) Minimum front yard depth shall be 30 feet which shall be devoted for sidewalks, grass, plants, and the necessary driveways. Off-street parking shall not be permitted in this area.

(b) Minimum required width of side yard - 15 feet.

(c) Minimum required depth of rear yard - 20 feet.

(D) *Supplementary district regulations.* All supplementary district regulations stated in § 150.060 through 150.064 of this chapter shall apply to the Industrial District. In addition, all new developments shall also meet the applicable Design Standards of Article 4 in the Town's Subdivision Ordinance.

(1999 Code, § 150.45) (Ord. passed 7-24-1989)

§ 150.049 TABLE OF PERMITTED USES.

	ZONING DISTRICTS							
	[P] = Permitted; [S] = Special Use Permit Required; [-] = Prohibited							
	RA-1	R-1	R-2	R-3	HP-DC	MXU	C	I
RESIDENTIAL USES								
Group Housing	P	S	S	S	S	-	-	-
Home Occupations	P	P	P	P	P	P	-	-
Manufactured Home/Mobile Home	P	-	P	-	-	-	-	-
Manufactured Home/Mobile Home Park	P	-	-	S	-	-	-	-
Multi-Family Developments (over 4 units)	-	S	S	S	-	P	-	-
Quadplex	-	-	-	-	P	P	-	-
Rest homes & nursing homes	-	P	P	P	-	P	-	-
Single-family dwelling - attached (Townhome)	-	S	S	S	P	P	-	-
Single-family dwelling - detached	P	P	P	P	P	P	-	-
Triplex	-	-	-	-	P	P	-	-
Two-family (duplex)	-	P	P	P	P	P	-	-
COMMERCIAL/OFFICE/CIVIC USES								
Banks & Financial Institutions	-	-	-	-	P	P	P	-
Bar/Tavern/Saloon	-	-	-	-	-	S	S	-
Cemeteries	P	S	S	S	S	S	-	-
Community Gardens	P	-	-	-	P	P	-	-
Convenience Store/Gasoline Sales	-	-	-	-	-	P	P	-
Day care centers & nursery schools	S	S	S	S	P	P	P	-
Farming & Nurseries	P	P	P	P	P	-	P	-
Funeral Homes	S	S	S	S	S	P	P	-

General Commercial (10,000 square feet or less)	-	-	-	-	P	P	P	-
General Commercial (over 10,000 square feet)	-	-	-	-	-	P	P	-
Hospitals	-	-	-	-	-	S	P	-
Hotel/Inn	-	-	-	-	S	P	P	-
Laundry & dry-cleaning establishments	-	-	-	-	-	P	P	-
Libraries	-	-	-	-	P	P	P	-
Medical Clinics	-	-	-	-	S	P	P	-
Museum	-	-	-	-	P	P	P	-
Offices; business, professional, government	-	-	-	-	P	P	P	S
Parking lots (standalone)	-	-	-	-	S	S	P	S
Personal Care Services	-	-	-	-	P	P	P	-
Post office	P	-	-	-	P	P	P	-
Public Safety Stations	P	S	S	S	P	P	P	S
Public Utilities	P	P	P	P	P	P	P	P
Recreation Facilities	P	P	P	P	P	P	P	-
Religious Institutions	P	P	P	P	P	P	-	-
Restaurant (drive-thru)	-	-	-	-	-	P	P	-
Restaurants (sit down)	-	-	-	-	P	P	P	-
Schools	-	P	P	P	-	S	S	-
Taxicab stands	-	-	-	-	-	-	P	-
Vehicle Sales & Repair Services	-	-	-	-	-	S	P	S
Veterinarian (indoor kennels)	S	-	-	-	-	P	P	-
INDUSTRIAL USES								
Bottling & Canning	-	-	-	-	-	-	-	S
Laboratories	-	-	-	-	-	-	S	S
Manufacturing & processing	S	-	-	-	-	-	-	S
Solar Farms	S	-	-	-	-	-	-	S
Storage (inside & outside)	-	-	-	-	-	-	-	S

SUPPLEMENTARY DISTRICT REGULATIONS

§ 150.060 CURB CUTS.

(A) Any business or industry which requires lowered or cut-away curbs, for purposes of ingress or egress, shall be subject to the following provisions.

(1) No more than two combined entrances and exits shall be allowed any parcel of property, the frontage of which is less than 200 feet on any one street.

(2) Additional entrances or exits for parcels of property having a frontage in excess of 200 feet shall be permitted after showing of actual requirements of convenience and necessity and upon approval of the Zoning Enforcement Officer.

(3) Where frontage is 50 feet or less, only one combined entrance-exit shall be permitted.

(B) At street intersections, no curb cut shall be located within 25 feet of the intersection of two curb lines or such lines extended, or within 15 feet of the intersection of two property lines, right-of-way lines, or such lines extended, whichever is least restrictive.

(C) The distance between any two curb cuts on the same side of the street shall be not less than 15 feet. Said distance shall be measured between the points of tangency of the curb return radii and the established curb line of the abutting street.

(D) All driveways shall be constructed so as to be at least five feet from any property line, except that a curb return may become tangent to a curb line at a point where said property line extended intersects said curb line.

(E) The minimum width of any one-way driveway shall be 12 feet and the maximum width shall be 30 feet. Maximum width of any two-way driveway shall be 36 feet measured at the right-of-way line.

(F) (1999 Code, § 150.55) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.061 VISIBILITY AT INTERSECTIONS.

On a corner lot in all zoning districts nothing shall be erected, placed, planted, or allowed to grow in such a manner as materially to impede vision between a height of two and one-half feet and ten feet in a triangular area formed by a diagonal line between two points on the rights-of-way lines, 20 feet from where they intersect.

(1999 Code, § 150.56) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.062 BUILDING HEIGHTS.

No building shall exceed 35 feet in height; spires, flagpoles, antennas, chimneys, and similar accessories to structures are exempt from this height limitation. When a property is located in the Special Flood Hazard Area or in the Historic Princeville – Downtown Core Zoning District, the Zoning Enforcement Officer may grant increase of up to 10% to the maximum building height (with approval the Building Inspector & Fire Marshall) when structures are replaced or renovated to increase the finished floor elevation of the structure at an elevation above base flood elevation.

(1999 Code, § 150.57) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.063 REQUIRED BUFFERS.

After the effective date of this chapter, the establishment of any commercial or industrial use in a commercial or industrial district where it abuts a lot in a residential or mixed-use district or land occupied by a residential or mixed use permitted by this chapter, there shall be provided and maintained along said property line, a continuous visual buffer a minimum of six feet in height and 20' in width. The buffer shall be a dense mix of evergreen hedges and trees or other type of evergreen foliage screening, or shall be a combined fence and shrubbery screen, the latter facing the residential use. It shall be the responsibility of the residential use to provide the buffer when such proposed use abuts a commercial or industrial district or use.

(1999 Code, § 150.58) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.064 SPECIAL USE PERMITS.

(A) *Authority; decision; duration.* The Board of Commissioners shall have authority to grant special use permits in specific zoning districts, subject to any conditions either set forth below through the quasi-judicial process and an evidentiary public hearing.

(B) *Public Hearing Process.* The Board of Commissioners shall hold an evidentiary public hearing on the proposal. The applicant and other property owners likely to be affected by the application shall be given an opportunity to be heard.

(C) *Notice.* Per G.S. 160D-406(b), notice of evidentiary hearings conducted pursuant to this ordinance shall be mailed to the person or entity whose appeal, application, or request is the subject of the hearing; to the owner of the property that is the subject of the hearing if the owner did not initiate the hearing; to the owners of all parcels of land abutting the parcel of land that is the subject of the hearing; and to any other persons entitled to receive notice as provided by the this ordinance. In the absence of evidence to the contrary, the town may rely on the county tax listing to determine owners of property entitled to mailed notice. The notice must be deposited in the mail at least 10 days, but not more than 25 days, prior to the date of the hearing. Within that same time period, the city local government shall also prominently post a notice of the hearing on the site that is the subject of the hearing or on an adjacent street or highway right-of-way.

The Board of Commissioners may continue an evidentiary hearing that has been convened without further advertisement. If an evidentiary hearing is set for a given date and a quorum of the board

is not then present, the hearing shall be continued until the next regular board meeting without further advertisement.

(D) *Decision.* The Board of Commissioners shall approve, deny or approve with conditions the special use permit. No special use permit approval shall be granted unless it complies with the following findings of fact:

(1) The proposed special use permit represents an overall conformance with the adopted goals, recommendations and policies of the Town's officially Adopted Comprehensive Plan, Official Zoning Map and any other applicable planning documents adopted by the Town;

(2) There exists adequate infrastructure (transportation, utilities, etc.) to support the proposed use and plan;

(3) The proposed use and plan will not cause undue traffic congestion or create a traffic hazard;

(4) The proposed use and plan shall not be noxious or offensive by reason of vibration, noise, odor, dust, smoke or gas;

(5) The establishment of the proposed use and plan shall not impede the orderly development and improvement of surrounding property;

(6) The establishment, maintenance or operation of the proposed use and plan shall not be detrimental to or endanger the public health, safety or general welfare.

(E) *Appeals.* An appeal from the decision of the Board of Commissioners regarding a special use permit may be made by an aggrieved party and shall be made to the Superior Court of Edgecombe County in the nature of certiorari. Any such petition shall be filed with the clerk of the superior court within thirty (30) days after the decision of the Board is filed with the Town Clerk, or after a written copy thereof is delivered to every aggrieved party who has filed a written request for such copy with the secretary or chairman of the Board at the time of its hearing of the case, whichever is later. The decision of the Board may be delivered to the aggrieved party either by personal service or by registered mail or certified mail return receipt requested.

(F) *Time & Validity.* An approved special use permit shall become null and void if no significant work is done or development is made on the site within two (2) years after approval. The Board of Commissioners may grant a single one-year extension upon written request of the applicant made at least 30 days before the expiration of the approved site plan.

(G) *Substantial Changes.* Any substantial change to a special use permit as noted below shall be reviewed and approved or denied by the Board of Commissioners. The following changes to a special use permit shall be considered substantial and require approval by the Board of Commissioners:

(1) When there is introduction of a new vehicular access point to an existing street, road or thoroughfare not previously designated for access.

(2) Modification of special performance criteria, design standards, or other requirements specified by the special use permit.

(3) When there is an increase in the total density originally authorized by the approved special use permit.

(4) When the total floor area of a development is increased more than 10% beyond the total floor area last approved by Board of Commissioners. Changes of less than 10 percent may be approved by the Zoning Enforcement Officer.

(H) *Special use permit provisions.* The Board of Commissioners shall have authority to grant permission for the establishment of the following uses, subject to any specific conditions, either set forth below or which the Board of Commissioners may deem necessary.

(1) *Group housing projects.* A group housing project, which consists of a group of two or more buildings situated on a parcel of land which contains at least two acres of land and which is not subdivided into the customary streets and lots, shall be exempt from the lot and yard dimensional requirements of this chapter providing the plan for the project is approved by the Board of Commissioners on finding that the intensity of development shall be no greater and the preservation of open space no less than would be the case in other residential development in the same district.

(2) *Manufactured home or Mobile home parks.*

(a) Site requirements:

1. Every mobile home park shall be located on a tract of land no less than five acres in size. Every park shall contain at least ten mobile home spaces as defined in this chapter.
2. Each mobile home space shall be clearly established on the ground by permanent markers or monuments.

(b) Stand requirements:

1. No more than one mobile home may be parked on any mobile home space. No living compartment or structure other than a "Florida room" or other prefabricated structure specifically designed for mobile home use or extension shall be added to any mobile home parked within the jurisdiction of this chapter.
2. The supports of all mobile homes parked within an authorized park shall rest upon an adequate footing.
3. No mobile home stand shall be located closer than:
   a. Thirty feet from a public street right-of-way;
   b. Twelve feet from the exterior boundary of the mobile home park;
   c. Twenty-five feet from another mobile home stand, a mobile home addition, or other structure; or
   d. Ten feet from the edge of any driveway.

(c) All mobile home spaces shall abut a street.

(d) A driveway and parking space sufficient to accommodate at least one automobile shall be constructed per each mobile home space, and they shall be paved

according to the North Carolina Department of Transportation Secondary Roads Policies and Procedures.

(e) The mobile home stand and the mobile home space shall be graded to provide adequate storm drainage away from the mobile home and such that there will exist no more than two feet difference between the chassis of the mobile home and the finished grade of the mobile home stand.

(f) The mobile home stand shall be located on ground so as not to be susceptible to flooding and graded so as to prevent any water from ponding or accumulating on the premises.

(g) Each mobile home stand shall have adequate access for both the mobile home and autos, with a minimum width of 20 feet unless more is deemed necessary because of topographical conditions or street curvature.

(h) Utilities required.

1. Installation. It is mandatory that all utilities be installed according to the town ordinances governing utilities.
2. Mobile home stand utilities. Each mobile home stand shall be equipped with plumbing and electrical connections.
3. Mobile home equipment. Each mobile home shall have a flush toilet, lavatory, bathtub or shower, adequate hot water facilities, cooking facilities, and electricity wiring, and shall be required to connect with the utilities provided at each mobile home space.
4. Each mobile home park shall be connected to a public sewer system if available or to a system constructed in compliance with the regulations of the County Health Department and other applicable State Agencies, if a public municipal sewer system is unavailable. All sewage wastes from each mobile home park, including water basins, refrigerator drains, sinks, faucets, and water-using appliances not herein mentioned shall be piped into the mobile home park sewage disposal system.
5. Each mobile home space shall be provided with at least a three-inch diameter sewer riser pipe where collection systems are provided. The sewer riser pipe shall be so located on each space that the sewer connection to the mobile home drain outlet will approximate a vertical position.
6. A two-foot by two-foot concrete apron shall be installed around all septic tank connection riser pipes for support and protection. The septic tank connection shall be located a distance of at least 100 feet from the well supply.
7. The sewer connection shall have a nominal inside diameter of at least three inches, and the slope of any portion thereof shall be at least one-fourth inch per foot. The sewer connection shall consist of one pipeline only without any branch fittings. All joints shall be watertight including connection from trailer to sewer riser pipe.
8. All materials used for sewer connections shall be semi-rigid, corrosion-resistant, nonabsorbent, and durable. The inner surface shall be smooth.
9. Provision shall be made for plugging the sewer pipe when a mobile home

does not occupy a space. Surface drainage shall be diverted away from the rise. The rim of the riser pipe shall extend at least four inches above ground elevation.

10. Each mobile home park shall obtain water from a public water supply when available, or from a source approved by the County Health Department, or applicable State Agency. The water supply and pressure shall be adequate for the park requirements. Water for drinking, cooking, laundry, and general sanitary uses for each individual mobile home shall be obtained only from faucets or other plumbing connections located within each mobile home.

(i) Solid waste disposal.

1. The storage, collection, and disposal of solid waste in the mobile home park shall be so conducted as to create no health hazards, rodent harborage, insect breeding areas, accident or fire hazards, or pollution.
2. All solid waste containing garbage shall be stored in standard fly-tight, watertight, rodent-proof containers, with a capacity not more than 20 gallons, which shall be located not more than 150 feet from any mobile home lot. Containers shall be provided in sufficient number and capacity to properly store all solid waste containing garbage. The mobile home park management shall be responsible for the proper storage, collection, and disposal of solid waste.
3. Stands shall be provided for all containers. Such container stands shall be so designed as to prevent containers from being tipped, to minimize spillage and container deterioration, and to facilitate cleaning around them.
4. All solid waste containing garbage shall be collected at least once weekly except for the months of May, June, July, August, and September when it shall be collected twice weekly. Where suitable collection service is not available from municipal or private agencies, the mobile home park operator shall provide this service. All solid waste containing garbage shall be collected and transported in covered vehicles or covered containers.
5. Where municipal or private disposal service is not available, the mobile home park operator shall dispose of the solid waste by transporting to a disposal site approved by the town.

(j) *Fire protection.* Fire hydrants shall be installed as to provide unobstructed access within a distance of 500 feet from any mobile home space.

(k) *Street lights.* All streets in the mobile home park shall be adequately illuminated from sunset until sunrise. The minimum size street light shall be a 175 watt mercury vapor (approximately 7,000 lumen class), or its equivalent, spaced at intervals of not more than 300 feet.

(l) Streets and driveways.

1. Access to the park shall be directly from a public-maintained road. Two-way access streets within the park shall be paved 22 feet wide. One-way streets shall be paved 12 feet wide. The figures for these street widths are without parking allowance.
2. Closed ends of dead-end streets shall be provided with a vehicular turning

circle at least 80 feet in diameter, measured on the centerline of the street. Closed ends of dead-end drives or roads shall not exceed 400 feet in length.

3. Each mobile home stand shall have adequate access for both the mobile home and autos with a minimum width of 20 feet unless more is deemed necessary because of topographical conditions or street curvature.

(m) *External yards and buffering.* The mobile home park shall have a planting strip five feet wide (minimum) adjacent to the park boundary extending along the entire perimeter of the mobile home park. It shall be planted with evergreen shrubbery and adequately landscaped with grass in such a manner as to be harmonious with the landscaping of the adjacent properties and in keeping with the general character of the surrounding neighborhood.

(n) *Signs for identification of mobile home parks.* Not more than two signs with a total area of not more than one-half square foot for each mobile home space and in no case larger than 50 square feet, located on private property, but no closer than five feet to any property line. Only indirect non-flashing lighting may be used for illumination, and the sign must be constructed in such manner as to prevent a direct view of the light source from any public right-of-way.

(o) Recreation areas.

1. Adequate and suitable recreation areas to serve the needs of the anticipated population shall be provided.
2. No less than 8% of the gross site area shall be devoted to recreation area.
3. The area shall consist of at least the following:
   a. One or more playgrounds for children containing a minimum of 20% of total area in the mobile home park; and
   b. No single playground shall contain less than 5,000 square feet.

(p) *Non-residential uses.*

1. It shall be unlawful to sell on a commercial basis mobile homes or trailers within a mobile home park, except that an individual mobile home owner shall be exempt from this section in that he or she may be allowed to sell the mobile home in which he or she maintains occupancy.
2. One mobile home may be used as an administrative office within the mobile home park.
3. Regulations. It shall be the duty of the operator of the mobile home park to keep an accurate register containing a record of all mobile home owners, mobile homes, and occupants of the mobile home park.
4. The operator shall keep the register available at all times for inspection by law enforcement officials, public health officials, and other officials whose duties necessitate acquisition of the information contained in the register.

(3) *Multi-family Developments.*

(a) *Open space recreation facilities.*

1. *Open space.* A minimum of 15% of the gross acreage shall be reserved as open space.
2. *Recreation space.* A minimum of 50% of the open space shall be developed

for active recreational purposes.

(b) *Parking.* Automobile parking spaces and drives shall not be located closer than 30 feet to the front or 20 feet to the side or rear of any dwelling.

(c) *Dwelling-to-dwelling relationship.*

1. Building walls having both window and door openings shall be located no closer than 50 feet to another building.
2. Building walls having only window openings or only door openings shall be located no closer than 25 feet to another building.

(d) *Courtyard*. Any group of buildings forming a courtyard shall have at least 25% of the perimeter of such courtyard open for access by emergency vehicles.

(e) *Landscaping and project perimeter requirements.* Landscaping shall be included to buffer the development from its surrounding neighbors. No building shall be erected, reconstructed, altered, or moved nearer the exterior project property lines than 25 feet or the applicable district yard requirements, whichever is greater. Yard spaces for one building shall not overlap yard space for another building.

(f) *Solid waste disposal.*

1. The storage, collection, and disposal of solid waste shall be so conducted as to create no health hazards, rodent harborage, insect breeding areas, accident or fire hazards, or pollution.
2. All solid waste containing garbage shall be stored in standard fly-tight, watertight, rodent-proof containers, with a capacity not more than 32 gallons. Containers shall be provided in sufficient number and capacity to properly store all solid waste containing garbage. The management of the complex shall be responsible for proper storage and collection of solid waste.
3. Stands shall be provided for all containers. Such container stands shall be so designed as to prevent containers from being tipped, to minimize spillage and container deterioration, and to facilitate cleaning around them.
4. Dumpsters shall be screened by an evergreen wall or solid fence at least six feet tall.
5. All solid waste containing garbage shall be collected at least once weekly except for the months of May, June, July, August, and September when it shall be collected twice weekly. Where suitable collection service is not available from municipal or private agencies, the management shall provide this service. All solid waste containing garbage shall be collected and transported in covered vehicles or covered containers.
6. The solid waste disposal regulations shall be subject to any additional requirements imposed by the town and/or the Public Works Director.

(g) *Utilities.* Multi-family complexes shall be located where public or community water, sanitary sewers, and storm drainage utilities are available.

(4) *Shopping centers.*

(a) *Site area.* No shopping center district site shall contain less than two acres.

(b) *Required perimeter yards.* No building shall be less than 50 feet from any street line or 25 feet from any side or rear lot lines.

(c) *Landscaping on project perimeters required.* Evergreen landscaping shall be included to buffer the shopping center project perimeters.

(d) *Solid waste disposal.* A plan for solid waste storage, collection, and disposal shall be submitted to the town and approved prior to issuance of a special use permit.

(e) *Utilities.* Shopping center developments shall be located where public water, sanitary sewer, and storm drainage utilities are available.

(f) Road facilities.

1. Shopping center sites of more than ten acres shall be tangent to two or more major thoroughfares or one major thoroughfare and two or more minor thoroughfares as designated on the thoroughfare plan.
2. Shopping center sites of between three and ten acres shall be tangent to one major thoroughfare and one minor thoroughfare as designated on the thoroughfare plan.
3. Shopping center sites of less than three acres shall be served by a major thoroughfare as designated on the officially adopted thoroughfare plan.
4. Maximum permissible lot coverage. The total ground area covered by the principal buildings and all accessory buildings including any roofed area shall not exceed 30% of the total site area.

(5) *Cemeteries.*

(a) *Exceptions.* The provisions of this section shall not apply to private cemeteries on religious institution grounds, adjacent to the main building, or family cemeteries on farms.

(b) *Minimum size.* A cemetery shall contain not less than two acres of land in contiguous ownership.

(c) *Structures.* Chapels, mortuaries, mausoleums, and sales and administrative offices may be developed within the cemetery. No more than two such buildings shall be permitted in any cemetery. Access to the buildings shall be from within the cemetery. No building permitted by these requirements shall be located closer than 150 feet to any residential dwelling structure on land adjoining the cemetery.

(d) *Access.* Access to the cemetery shall be provided by way of private drives extending from a public street and of sufficient width to accommodate two-way traffic. Parking shall be provided entirely on private internal roads. All internal driveways and parking areas shall be paved.

(e) *Buffering.* A perimeter strip of 50 feet in depth shall be maintained around the entire cemetery. There shall be no burial sites, buildings or other structures located within the buffer strip, and the strip shall be landscaped or fenced so as to effectively screen the cemetery and burial activities therein from view from outside of the cemetery. A buffering plan shall be submitted to and approved by the Board of Commissioners prior to the issuance of a special use permit.

(1999 Code, § 150.59) (Ord. passed 7-24-1989; Ord. passed 10-26-2015) Penalty, see § 150.999

§ 150.065 SITE PLANS.

(A) *Site plan approval.* Site plans shall be submitted for any development related activities within the Town's Planning and Development Regulation Jurisdiction.

(1) *Procedure.* Site plans may be submitted as part of a special use permit application to be reviewed and approved in accordance with §150.064 SPECIAL USE PERMITS or if the

use is permitted by right in the underlying zoning district per §150.047 TABLE OF PERMITTED USES to which the property is located, it must be reviewed and approved for compliance with this ordinance by the Zoning Enforcement Officer. A site plan prepared and certified by a professional engineer, landscape architect or professional land surveyor. Five prints of the site plan at a scale of not less than one inch equals 100 feet, together with all information required by this chapter, shall be submitted. All plans shall be on either 24 x 36-inch material or suitable for folding to that size.

(2) *Information required.*

	Required Information:
(a) Plot & Location Plan	1. Location and dimensions of building(s) on site showing distance to side lot lines and centerlines of adjacent streets; 2. Location and dimensions of proposed and existing driveways and curb cuts on site and adjacent properties; 3. Location and general design of proposed and existing sidewalks and open space with existing plan material and proposed landscaping; 4. Location and dimensions of proposed and existing surface parking and loading areas 5. Existing widths of any streets and sidewalks adjoining the tract giving right-of-way and pavement widths; 6. Front, side, and rear yard setbacks; 7. Proposed elevations at control points such as driveways, ramps, and the like; 8. Zoning of the tract; 9. Owner; 10. Vicinity map to scale showing location of tract; 11. Certified topographic map of parcel at a minimum two-foot contour interval, showing existing and proposed contours; 12. Provisions for the adequate disposition of natural and stormwater in accordance with the adopted design criteria and standards of the town indicating location, sizes, types, and grades of ditches, catch basins, and pipes, and connections to existing drainage; and 13. USGS datum used for all elevations shown and showing location and elevation of benchmark used.
(b) Utility Plan	1. Location of all existing underground utilities such as water, sewer, and storm drainage, and the like, both within the property and in adjacent streets; 2. Location of all surface facilities such as sidewalks, curbs, gutters, and the like; and 3. Fencing, walls, and screening to be preserved, erected, or planted; type, height and location.

(3) *Improvements.*

(a) Prior to approval of any site plan, the owner or developer shall submit cost estimates and a time schedule of installation of each phase of the required site improvements. The site improvements shall be installed in their entirety or shall be guaranteed with a performance security in an amount of 125% of the estimated cost for the remaining improvements. Such security shall be made in one or more of the following: surety bond, letter of credit or other form of guarantee that provides equivalent security to a surety bond or letter of credit. As each phase of the improvements is installed and is inspected and approved by the Zoning Enforcement Officer, the performance security will be reduced by the cost of the installed improvement.

(b) Upon completion of the required improvements, the owner or developer may apply to the Zoning Enforcement Officer for a certificate of completion and discharge of the performance security. If the work is found by the Zoning Enforcement Officer to conform to the approved site plan, applicable regulations, and town ordinances, he or she shall issue the certificate.

(4) Filing fees. Shall be paid in accordance with the Town's officially adopted fee schedule.

(4) *Time and validity of approved site plans.* An approved site plan shall become null and void if no significant work is done or development is made on the site within two (2) years after approval. The Zoning Enforcement Officer may grant a single one-year extension upon written request of the applicant made at least 30 days before the expiration of the approved site plan.

§ 150.065 DEVELOPMENT AGREEMENTS.

(A) Development projects often occur in multiple phases over several years, requiring a long term commitment of both public and private resources.

(B) To better structure and manage development approvals for such developments and ensure their proper integration into local capital facilities programs, local governments need flexibility to negotiate such developments.

(C) The Town may enter into development agreements with developers, subject to the procedures of G.S. 160D, Article 10.

OFF-STREET PARKING AND LOADING

§ 150.075 OFF-STREET PARKING REQUIRED.

(A) There shall be provided at the time of the erection of any building; or at the time any principal building is enlarged or increased in capacity by adding dwelling units, guest rooms, seats, or floor area; or before conversion from one type of use or occupancy to another, permanent off-street parking space in the amount specified by this subchapter.

(B) Such parking space may be provided in a parking garage or properly graded open space.
(1999 Code, § 150.70) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.076 CERTIFICATION OF MINIMUM PARKING REQUIREMENTS.

(A) Each application for a certificate of zoning compliance submitted to the Zoning Enforcement Officer as provided for in this chapter shall include information as to the location and dimensions of off-street parking and loading space and the means of ingress and egress to such space.

(B) This information shall be in sufficient detail to enable the Zoning Enforcement Officer to determine whether or not the requirements of this subchapter are met.
(1999 Code, § 150.71) (Ord. passed 7-24-1989)

§ 150.077 COMBINATION OF REQUIRED PARKING SPACE.

The required parking space for any number of separate uses may be combined in one lot but the required space assigned to one use may not be assigned to another use, except that one-half of the parking space required for religious institutions, theaters, or assembly halls whose peak attendance will be at night or on Sundays may be assigned to a use which will be closed at night and on Sundays.
(1999 Code, § 150.72) (Ord. passed 7-24-1989)

§ 150.078 REMOTE PARKING SPACE.

If the off-street parking space required by this chapter cannot be reasonably provided on the same lot on which the principal use is located, such space may be provided on any land within 400 feet of the main entrance to such principal use, provided such land is in the same ownership as the principal use.
(1999 Code, § 150.73) (Ord. passed 7-24-1989)

§ 150.079 MINIMUM PARKING REQUIREMENTS.

The following off-street parking spaces shall be required.

Use	***Required Parking***
Residential and Related Uses	
Any residential use consisting of one or more dwelling units	2 parking spaces on the same lot for each dwelling unit dwelling
Doctors' or dentists' office in his or her residence	5 parking spaces in addition to residence requirements
Professional office (other than doctor or dentist) or customary home occupations in operator's residence	3 parking spaces in addition to residence requirements
Rooming or boarding houses	1 parking space for each room to be rented
Public and Semi-Public Uses	

Auditoriums	1 parking space for each 4 seats
Religious Institutions	1 parking space for each 4 seats
Clinics	3 parking spaces for each staff doctor, plus 1 parking space for each employee
Elementary schools and junior high schools	2 parking spaces for each classroom and administrative office, plus 1 bus space for each 40 pupils
Hospitals	1 parking space for each bed intended for patient use, exclusive of bassinets
Nursing homes	1 parking space for each 2 beds intended for patient use, plus 1 parking space for each employee
Public or private clubs	1 parking space for each 200 square feet of gross floor area
Public utility buildings	1 parking space for each employee
Senior high schools	1 parking space for each 4 students for which the building was designed, plus 1 parking space for each classroom and administrative office
Stadiums	1 parking space for each 4 spectator seats
Business Uses	
Banks	1 parking space for each 300 square feet of gross floor space, plus 1 for each employee
Filling stations	2 spaces for each service bay, plus 1 space for each vehicle used in operation, plus 1 space for each employee
Funeral homes	1 parking space for each 3 seats in the chapel or parlor
General or professional offices	1 parking space for each 100 square feet of gross floor space
Hotels (not including any retail uses)	1 parking space for each room to be rented, plus 1 additional parking space for each 2 employees
Theaters	1 parking space for each 3 seats in the auditorium
Tourist homes, motels, motor courts	1 parking space for each room to be rented, plus 1 additional parking space for each employee

Retail Uses Not Otherwise Indicated	
High generator retail and service establishments, such as auto accessory, department store, variety store, coin-operated dry cleaners and laundries, drug, food, variety stores	1 space for each 200 square feet, plus 2 spaces for each 3 employees, plus 1 space for each vehicle used in operation
Low generator retail and service establishments, such as appliance, drapery, feed store, floor or wall covering, florist, hobby shop, furniture, paint, hardware, interior decorator, upholstery	1 space for each 600 square feet, plus 2 spaces for each vehicle used in operation
Medium generator retail and service establishments, such as bakery, barber, beauty shops, dry cleaning, laundry pick-up stations, dry goods, apparel shop, sporting goods, shoe repair	1 space for each 300 square feet, plus 2 spaces for each 3 employees, plus 1 space for each vehicle used in operation
Shopping centers	5-1/2 spaces for each 1,000 square feet of gross leasable floor space
Industrial and Wholesale Uses	
Industrial uses	1 parking space for each employee on the largest shift
Wholesale uses	1 parking space for each 200 square feet, plus 2 spaces for each 3 employees, plus 1 space for each vehicle used in operation

(1999 Code, § 150.74) (Ord. passed 7-24-1989)

§ 150.080 OFF-STREET LOADING.

The number of off-street loading berths required by this section shall be considered as the absolute minimum and the developer shall evaluate his or her own needs to determine if they are greater than the minimum specified by this section. For purposes of this section, an off-street loading berth shall have minimum plan dimensions of 12 feet by 25 feet and 14 feet overhead clearance with adequate means for ingress and egress. A loading space requirement may be modified or waived through a variance by the Planning Board [serving as the Board of Adjustment] on application in the case of a bank, theater, assembly hall, or other building of similar limited loading space requirements.

Square Feet of Gross Floor Area	***Required Number of Berths***
0 - 25,000	1
25,000 - 40,000	2

40,000 - 100,000	3
100,000 - 160,000	4
160,000 - 240,000	5
240,000 - 320,000	6
Square Feet of Gross Floor Area	***Required Number of Berths***
320,000 - 400,000	7
Each 90,000 above 400,000	1

(1999 Code, § 150.75) (Ord. passed 7-24-1989) Penalty, see § 150.999

ADMINISTRATION AND ENFORCEMENT

§ 150.095 ADMINISTRATIVE OFFICER.

The Zoning Enforcement Officer is hereby authorized to enforce the provisions of this chapter. Appeal from the decision of the Zoning Enforcement Officer shall be made to the Planning Board [serving as the Board of Adjustment].

(1999 Code, § 150.85) (Ord. passed 7-24-1989)

§ 150.096 PLANNING BOARD.

(A) *Creation.* There shall be and is hereby created a Planning Board consisting of five members, including three residents of the town and two residents of the extraterritorial jurisdictional area. The Planning Board shall also act as the Board of Adjustment in evidentiary hearings for quasi-judicial decisions.

(B) The membership of the planning board shall represent the corporate limits and the ETJ by population proportion. The population proportions shall be based on the latest decennial census numbers.

(C) All members of the Board shall have voting power on all matters of business. The town resident members of the Board shall be appointed by the Board of Commissioners. Residents of the extraterritorial jurisdiction shall be appointed by the County Commissioners. The members of the Board shall have initial terms of office as follows: one member appointed for a term of one years; two members appointed for terms of two years; and two members appointed for terms of three years. At completion of the initial term of office for each member, all additional appointments to vacancies of the Board shall be for three-year terms.

(D) *Meetings.* The Board shall elect one of its members as chairperson and shall appoint a Secretary and such other subordinates as may be authorized by the Board of Commissioners. The Board shall draw up and adopt the rules of procedures under which it will operate. Meetings of the Board shall be held at the call of the chairperson and at such other times as the Board may determine. Such chairperson, or in his or her absence the acting chairperson, may administer oaths and compel the attendance of witnesses. All meetings of the Board shall be open to the public. The Board shall keep minutes of its proceedings, showing the vote of each member upon every question, or his or her absence or failure to vote, indicating

such fact, and also keep records of its examination and any other official action.

(E) *Conflicts of interest.* No member of the Planning Board shall vote on any advisory or legislative decision regarding a development regulation where the outcome of the matter is reasonably likely to have a direct, substantial, readily identifiable financial impact on the member. For legislative decisions, if the member has a close familial, business, or other associational relationship with the landowner of the subject site or the applicant for a text amendment, the members shall abstain from voting. When exercising quasi-judicial functions, Planning Board [serving as the Board of Adjustment] members shall refrain from voting or participating in any matter in a manner that would violate affected persons' constitutional right to an impartial decision maker. This includes instances in which a member has a fixed opinion that is not susceptible to change, has had undisclosed ex-parte communication, has a close familial, business, or other association relationship with any affected party, or has a financial interest in the outcome of the matter.

(F) *Filing and notice for an appeal or variance.* Appeals from the enforcement and interpretation of this chapter and requests for variances shall be filed with the Zoning Enforcement Officer specifying the grounds thereof. The Zoning Enforcement Officer shall transmit to the Planning Board [serving as the Board of Adjustment] all applications and records pertaining to such appeals and variances. An appeal stays all proceedings in furtherance of the action appealed from, unless the Zoning Enforcement Officer certifies to the Planning Board that by reason of facts stated in the certificate a stay would in his or her opinion cause imminent peril to life and property, in which case proceedings shall not be stayed otherwise than by a restraining order, which may be granted by the Board or by a court of record on application or notice to the officer from whom the appeal is taken and due cause shown.

(1) *Evidentiary Public Hearing of the appeal.* After receipt of notice of an appeal, the Board chairperson shall schedule the time for an evidentiary public hearing which shall be at a regular or special meeting within 36 days from the filing of such notice of appeal.

(2) *Notice.* Per G.S. 160D-406(b), notice of evidentiary hearings conducted pursuant to this ordinance shall be mailed to the person or entity whose appeal, application, or request is the subject of the hearing; to the owner of the property that is the subject of the hearing if the owner did not initiate the hearing; to the owners of all parcels of land abutting the parcel of land that is the subject of the hearing; and to any other persons entitled to receive notice as provided by the this ordinance. In the absence of evidence to the contrary, the town may rely on the county tax listing to determine owners of property entitled to mailed notice. The notice must be deposited in the mail at least 10 days, but not more than 25 days, prior to the date of the hearing. Within that same time period, the city local government shall also prominently post a notice of the hearing on the site that is the subject of the hearing or on an adjacent street or highway right-of-way.

(3) The planning board may continue an evidentiary hearing that has been convened without further advertisement. If an evidentiary hearing is set for a given date and a quorum of the board is not then present, the hearing shall be continued until the next regular board meeting without further advertisement.

(4) *Fees for appeals or variances.* Fees shall be paid per the Town's officially adopted fee schedule.

(G) *Powers and duties.* The Planning Board [serving as the Board of Adjustment] shall have the following powers and duties:

(1) *Administrative Appeal.* To hear and decide appeals where it is alleged by the appellant that there is error in any order, requirement, permit, decision, determination, or refusal made by the Zoning Enforcement Officer or other administrative officials in the carrying out or enforcement of any provision of this chapter. A simple majority vote of members of the Board shall be necessary to reverse, wholly or partly, any order, requirement, decision, permit, determination, or refusal; and

(2) *Variances.* To hear and decide variances from the terms of this chapter as will not be contrary to the public interest where, owing to special conditions, a literal enforcement of the provisions of this chapter would result in unnecessary hardship. In granting any variance, the Planning Board may prescribe appropriate conditions and safeguards in conformity with this chapter. A variance from the terms of this chapter shall not be granted by the Board unless and until the following written findings of fact are made:

(1) Unnecessary hardship would result from the strict application of the regulation. It shall not be necessary to demonstrate that, in the absence of the variance, no reasonable use can be made of the property.

(2) The hardship results from conditions that are peculiar to the property, such as location, size, or topography. Hardships resulting from personal circumstances, as well as hardships resulting from conditions that are common to the neighborhood or the general public, may not be the basis for granting a variance. A variance may be granted when necessary and appropriate to make a reasonable accommodation under the Federal Fair Housing Act for a person with a disability.

(3) The hardship did not result from actions taken by the applicant or the property owner. The act of purchasing property with knowledge that circumstances exist that may justify the granting of a variance shall not be regarded as a self-created hardship.

(4) The requested variance is consistent with the spirit, purpose, and intent of the regulation, such that public safety is secured and substantial justice is achieved.

(H) A concurring vote of four-fifths of the board shall be required to grant a variance.

(I) *Appeal from the Planning Board [serving as the Board of Adjustment].* Appeal from the decision of the Planning Board [serving as the Board of Adjustment in this capacity] on quasi-judicial decisions may be made to the County Superior Court within 30 days after the decision is made by the Board, but not thereafter.

(1999 Code, § 150.86) (Ord. passed 7-24-1989)

§ 150.097 CERTIFICATE OF ZONING COMPLIANCE.

(A) *Certificate required.* No land shall be used or occupied and no building hereafter structurally altered, erected, or moved, shall be used, or its use changed, until a certificate of zoning compliance shall have been issued by the Zoning Enforcement Officer stating that the building and/or the proposed use thereof complies with the provisions of this chapter. A like certificate shall be issued for the purpose of maintaining, renewing, changing, or extending a nonconforming use. A certificate of zoning compliance, either for the whole or a part of a building, shall be applied for at least ten days prior to construction, and the certificate permit must be issued before actual construction begins. A record of all certificates shall be kept on file in the office of the Zoning Enforcement Officer and copies shall be furnished on request, to any person having a proprietary or tenancy interest in the building erected. No permit for excavation

or erection of any building or part of a building, or for repairs to, or alteration of, a building shall be issued until after a statement of its intended use has been filed by the applicant.

(B) *Temporary certificate.* The Zoning Enforcement Officer may issue a temporary certificate of zoning compliance for bazaars, carnivals, religious revivals, construction offices (including mobile homes), and similar uses. Such certificate shall be issued for a fixed period of time, but not to exceed 90 days, and shall be subject to such limitations as the Zoning Enforcement Officer may impose to protect the character of the district affected.

(C) *Application procedures.* Each application for a certificate of zoning compliance shall be accompanied by a plan in duplicate, drawn to scale, one copy of which shall be returned to the owner upon approval. The plan shall be accompanied by a letter of recommendation from the County Soil and Water Conservation District and a letter of approval and an improvements permit from the County Health Department. The plan shall include:

(1) The shape and dimensions of the lot on which the proposed building or use is to be erected or conducted;

(2) The location of the lot with respect to adjacent rights-of-way;

(3) The shape, dimensions, and location of all buildings, existing and proposed, on the lot;

(4) The nature of the proposed use of the building or land, including the extent and location of the use, on the lot;

(5) The location and dimensions of off-street parking and loading space and the means of ingress and egress to such space; and

(6) Any other information which the Zoning Enforcement Officer may deem necessary for consideration in enforcing the provisions of this chapter.

(D) *Construction and use shall be in conformity with plan.* A certificate of zoning compliance issued on the basis of plans and applications approved by the Zoning Enforcement Officer authorizes arrangement and construction set forth in the plan. Use arrangement or construction at variance with that authorized shall be deemed in violation of this chapter and punishable as provided by §§ 150.101 and 150.999.

(1999 Code, § 150.87) (Ord. passed 7-24-1989) Penalty, see § 150.999

§ 150.098 CERTIFICATE OF OCCUPANCY.

(A) A certificate of occupancy issued by the Zoning Enforcement Officer is required in advance of:

(1) Occupancy or use of a building hereafter erected, altered, or moved; or

(2) Change of use of any building or land.

(B) A certificate of occupancy, either for the whole or a part of a building, shall be applied for coincident with the application for a certificate of zoning compliance and shall be issued within ten days

after the erection or structural alteration of such building, or part, shall have been completed in conformity with the provisions of this chapter. A certificate of occupancy shall not be issued unless the proposed use of a building or land conforms to the applicable provisions of this chapter. If the certificate of occupancy is denied, the Zoning Enforcement Officer shall state in writing the reasons for refusal and applicant shall be notified of the refusal. A record of all certificates shall be kept on file in the office of the Zoning Enforcement Officer and copies shall be furnished on request to any person having a proprietary or tenancy interest in the building or land involved.

(1999 Code, § 150.88) (Ord. passed 7-24-1989)

§ 150.099 DUTIES OF OFFICIALS AS TO MATTERS OF APPEAL.

It is the intention of this chapter that all questions arising in connection with the enforcement of this ordinance shall be presented first to the Zoning Enforcement Officer and that such questions shall be presented to the Planning Board [serving as the Board of Adjustment] only on appeal from the Zoning Enforcement Officer; and that from the decision of the Planning Board [serving as the Board of Adjustment], recourse shall be had to superior court as provided by G.S. 160D-406(k).

(1999 Code, § 150.89) (Ord. passed 7-24-1989)

§ 150.100 TEXT AMENDMENTS AND REZONINGS (ZONING MAP AMENDMENTS).

The Board of Commissioners may amend, supplement, or change the text regulations and the official zoning map according to the following procedures.

(A) *Action by the applicant.* The following action shall be taken by the applicant:

(1) *Initiation of amendments.* Proposed changes or amendments may be initiated by the Town Board, Planning Board, Zoning Enforcement Officer or by one or more interested parties;

(2) *Application.* An application for any change or amendment shall contain a description and/or statement of the present and proposed zoning regulations or district boundary to be applied, and the names and addresses of the owner or owners of the property. Such application shall be filed with the Zoning Enforcement Officer not later than ten days prior to the Planning Board meeting at which the application is to be considered; and

(3) *Fee.* Fees shall be paid in accordance with the Town's officially adopted fee schedule.

(B) *Action by the Planning Board.* The following action shall be taken by the Planning Board. The Planning Board shall consider and make recommendations to the Board of Commissioners concerning each proposed zoning amendment. The Planning Board may hold separate public hearings or may sit concurrently with the public hearing held by the Board of Adjustment.

(1) Upon determination of compliance by the Zoning Enforcement Officer, the Planning Board shall review and provide a recommendation to the Board of Commissioners on the application at the next available, regularly scheduled meeting.

(2) If the Planning Board is able to reach a recommendation without further deliberation, the Planning Board shall submit a recommendation on the application and refer it to the Board

of Commissioners for their consideration at the next available public hearing.

(3) If the Planning Board determines that further deliberation on the application is required, the Planning Board shall deliver its recommendation to the Board of Commissioners within 30 days of its first consideration on the matter. If no recommendation is received from the Planning Board within 30 days of it first consideration on the matter, the Board of Commissioners shall proceed in its consideration of the matter without a recommendation from the Planning Board.

(4) The Planning Board shall advise and comment on whether the proposed amendment is consistent with the Town's adopted comprehensive plan. The Planning Board shall provide a written recommendation to the Board of Commissioners that addresses plan consistency and other matters as deemed appropriate by the Planning Board, but a comment by the Planning Board that the request is inconsistent with the comprehensive plan shall not preclude consideration or approval of the proposed amendment by the Board of Commissioners.

(C) Action by the Board of Commissioners.

(1) *Notice and legislative public hearing.*

(a) No amendment shall be adopted by the Board of Commissioners until after public notice and legislative public hearing. Notice of legislative public hearing shall be given once a week for two consecutive calendar weeks in a newspaper of general circulation in the town. The notice shall be published the first time not less than ten days nor more than 25 days prior to the date of the public hearing.

(b) The owners of the affected parcel(s) of land and the owners of parcels of land abutting the subject property shall be notified of the hearing/meeting by first class mail at the last addresses listed for such owners on the county tax abstracts. For the purpose of this section, properties are abutting even if separated by a street, railroad, or other transportation corridor. Such notification shall be postmarked at least ten (10) but not more twenty-five (25) days prior to the date of the meeting at which the matter is to be heard.

(c) As an alternative, to the mailed notice requirements in subsection (b) above and per NCGS 160D-602(b), the town may elect to serve notice through a full community notification for pending actions that affect more than fifty (50) properties, owned by at least fifty (50) different property owners. The town shall publish notice of the hearing/meeting in a newspaper of general circulation in the town. Two advertisements shall be published in separate calendar weeks. Each advertisement shall not be less than one- half of a newspaper page in size. The advertisement shall only be effective for property owners who reside in the area of general circulation of the newspaper which publishes the notice. Property owners who reside outside of the newspaper circulation area, according to the address listed on the most recent property tax listing for the affected property, shall be notified by first class mail.

(d) In addition to providing published or mailed notice, as required in above, a sign shall be placed in a prominent location on the subject property(ies) or on an adjacent public

street or highway right-of-way with a notice of the pending action/hearing and a phone number to contact for additional information. The notice shall be posted within the same time period specified for mailing notices of the hearing.

(2) *Board of Commissioners action.* Before taking such lawful action as it may deem advisable, the Board of Commissioners shall consider the Planning Board's recommendation on each proposed zoning amendment. If no recommendation is received from the Planning Board within 30 days after public hearing by the Board of Commissioners, the proposed amendment shall be deemed to have been approved by the Planning Board. A simple majority of the Board of Commissioners shall be required to amend this chapter following a favorable recommendation by the Planning Board. A three-fourths majority vote by the Board of Commissioners shall be required to amend this chapter when the Planning Board recommends against such amendment.

In accordance with NCGS 160D, all text amendments and rezonings shall be made in accordance with the Town's adopted comprehensive plan. Prior to adopting or rejecting any such request, the Board of Commissioners shall adopt a statement describing the proposal's consistency or inconsistency with the Town's adopted comprehensive plan.

(2) Citizen Comment.

(a) If any resident or property owner in the Town submits a written statement regarding a proposed amendment, modification, or repeal to this ordinance to the Town Clerk at least two business days prior to the proposed vote on such change, the Town Clerk shall deliver such written statement to the Board of Commissioners.

(b) Any resident or property owner who submits a written statement of citizen concern may withdraw their written statement any time prior to the meeting at which the item will be considered.

(3) *Denial.* When an application for amendment is denied by the Board of Commissioners, a period of 12 months must elapse before another application for the same property previously involved may be submitted.

(4) Notice.

(a) Whenever there is a rezoning after October 1, 1985 involving a parcel of land, the owner of that parcel of land as shown on the county tax listing, and the owners of all parcels of land abutting that parcel of land as shown on the county tax listing, shall be mailed a notice of the proposed classification by first class mail at the last addresses listed for such owners on the county tax abstracts. Properties are considered abutting even if separated by a transportation corridor.

(b) The person or persons mailing such notices shall certify to the Board of Commissioners that fact, and such certificate shall be deemed conclusive in the absence of fraud. This provision shall apply only when tax maps are available for the area to be zoned.

(1999 Code, § 150.90) (Ord. passed 7-24-1989)

§ 150.101 CONDITIONAL DISTRICTS.

(A) Conditional Districts are districts with conditions voluntarily added by the applicant and approved in a legislative procedure by the Town Council in accordance with G.S. 160D-501. Conditional Districts provide for orderly and flexible development under the general policies of this ordinance without the constraints of some of the prescribed standards guiding by-right development. Because Conditional District developments are constructed in a comprehensive manner, they can establish their own building, street, block, and lot pattern which may be unique from other surrounding blocks or neighborhoods. This Conditional District may be used in any district but is not intended to relieve hardships that would otherwise be handled using a variance procedure.

(B) Conditional District rezoning requests shall be processed in the same legislative process as a general zoning map amendment/rezoning request.

(C) Within an approved Conditional District, no use shall be permitted except pursuant to the conditions imposed by the applicant on the Conditional District in the approval of the rezoning. The Town Council and the applicant may mutually agree to additional reasonable and appropriate conditions or safeguards to serve the purpose and intent of this section, and to preserve public welfare, and justice. The applicant/property owner's written consent to any related conditions must be provided to ensure enforceability. The provisions of the Conditional District Master Plan shall replace all conflicting development regulations set forth in this ordinance which would otherwise apply to the development site. The Planning Board may recommend and the Town Council (with mutual approval of the applicant) may attach reasonable and appropriate conditions including, but not limited to, the location, nature, hours of operation, and extent of the proposed use(s). Conditions and site-specific standards shall be limited to those that address conformance of the development and use of the site to this ordinance and officially adopted plans and those standards and conditions that address the impacts reasonably expected to be generated by the development and use of the site. The applicant will have a reasonable opportunity to consider and respond to any conditions and site-specific standards proposed by either the Planning Board or the Board of Commissioners prior to final action.

(D) A Conditional District shall consist of an existing conditions map and general site master plan; as well as any other plans, drawings, renderings, elevations, maps and documents specifically included as development documents for approval by the Town Council. The Conditional District Master Plan, is a site specific that is a condition of the Conditional District rezoning. A Conditional District Master Plan shall, at a minimum, illustrate the following:

(1) The underlying zoning districts and a full list of proposed uses consistent in character with those zoning districts. Such use classifications may be selected from any of the uses, whether permitted, by right or with supplemental standards, allowed in the general zoning district upon which the Conditional District is based. Uses not otherwise permitted within the general zoning district shall not be permitted within the Conditional District;

(2) General traffic routes (external and internal) to and from the development with major access points identified;

(3) Tabular data, including the range and scope of proposed land uses, proposed densities, floor area ratios and impervious surface ratios as applicable to development type; and land areas devoted to each type of general land use and phase of development;

(4) A proposed development schedule if the project is to be phased.

§ 150.102 VIOLATIONS.

In case any building or structure is erected, constructed, altered, repaired, converted, or maintained, or any building, structure, or land is used in violation of this chapter, the Zoning Enforcement Officer or any appropriate authority of the town or any adjacent, nearby, or neighboring property owner who would be affected by such violation in addition to other remedies may institute injunction, mandamus, or other appropriate action in proceeding to prevent the occupancy of such building, structure, or land. (1999

Code, § 150.91) (Ord. passed 7-24-1989)

§ 150.103 PENALTY.

Any person violating any provision of this chapter, or who shall violate or fail to comply with any order made thereunder; or who shall continue to work upon any structure after having received written notice from the Zoning Enforcement Officer to cease work, shall be guilty of a misdemeanor and punishable by a fine not to exceed $50. Each day such violation shall be permitted to exist shall constitute a separate offense. Notice of violation shall be sufficient if directed to such owner, the agent of the owner, or the contractor and left at his or her known place of residence or place of business. (1999 Code, § 150.99) (Ord. passed 7-24-1989)

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ATTACHMENT 19:

Soil Suitability/ Slope/ Erosion/ Drainage/ Stormwater Runoff

Preliminary Geotechnical Report,
Princeville 53-Acre Development,
S&ME, Inc., July 17, 2019 and
USDA NRCS Soil Survey Soil
Suitability Classifications

Preliminary Geotechnical Report, Princeville 53-Acre Development, S&ME, Inc., July 17, 2019

Preliminary Geotechnical Report
Princeville 53-Acre Development
Princeville, North Carolina
S&ME Project No. 4305-19-035

PREPARED FOR:

Edgecombe County
201 St. Andrew Street, Room 402
Tarboro, North Carolina 27886

PREPARED BY:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, North Carolina 27616

July 17, 2019

July 17, 2019

Edgecombe County
201 St. Andrew Street, Room 402
Tarboro, North Carolina 27886

Attention: Mr. Eric Evans, County Manager

Reference: **Preliminary Geotechnical Report**
Princeville 53-Acre Development
Princeville, North Carolina
S&ME Project No. 4305-19-035
PE Firm License No. F-0176

Dear Mr. Evans:

S&ME, Inc. (S&ME) is pleased to submit this preliminary geotechnical report for the proposed 53-acre development in Princeville, North Carolina. The work was completed in general accordance with our proposal number 43-1900050 dated May 2, 2019. The purpose of our preliminary geotechnical exploration was to evaluate site and subsurface conditions relative to site development. This report presents our understanding of the project, description of our field exploration, discussion of encountered subsurface conditions, and our preliminary geotechnical conclusions and recommendations. If you have questions concerning information presented herein, please contact us.

Sincerely,

S&ME, Inc.

Elliot Blonshine
Geotechnical Staff Professional

NORTH CAROLINA PROFESSIONAL SEAL 34358 ENGINEER KEVIN A. NADEAU
7-17-19

Kevin A. Nadeau, P.E.
Senior Geotechnical Engineer
Registration No. 34358

Senior reviewed by J. Adam Browning, P.E.

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Appendix III – Laboratory Results

1.0 Project Information

Project information has been developed based on the following information:

- Information contained in the Request for Qualifications (RFQ) dated January 22, 2019 (revised February 1, 2019) and Addendum #1 provided on February 20, 2019.
- *Princeville Phase 1, Sketch Plan* (sheet A-1) prepared by AECOM (undated).
- Google Earth aerial imagery and GIS topographic information.

S&ME is currently performing planning and design services for the development, which include, among other things, developing a framework Master Plan for the property. We understand that preliminary program elements for the planned 53-acre development in Princeville, North Carolina include Municipal/Senior Center, Fire Station/EMS, Commercial/Office uses, and single- and multi-family residential.

Based on topographic information from Google Earth and GIS data, existing site elevations range from about 45 to 50 feet. A site grading plan was not prepared at the time of this report, therefore, for the purposes of our evaluation, we have assumed maximum cut and fill depths of approximately 5 feet. Structural loads were not available at the time of this report. We assume new structures will be both one to two-story steel-frame construction (town hall/fire station) and two to three-story stick-built construction (residential structures) with maximum column, wall, and floor loads of approximately 200 kips, 3 kips per foot, and 150 psf, respectively.

2.0 Site Information

At the time of our site reconnaissance, the site had been recently cleared (partially) by hydroaxe equipment, subcontracted by S&ME as part of our other scopes of work. As such, the site was partially cleared, with some areas of thick forest growth. Several degraded structures were observed during site reconnaissance, one in the eastern portion of the property and one in the southeastern portion of the property. Several additional structures were depicted in historical aerial photographs, but not observed during the site reconnaissance. Piles of debris, including wood, cinder blocks, tires, and metal were noted during site reconnaissance. Isolated piles of wood debris, likely associated with past logging activities, were observed toward the western portion of the property.

Several drainage features were observed during site reconnaissance and were generally located in the central and eastern portions of the property. Standing water was noted in most of the drainage features.

3.0 Area Geology

According to the 1985 Geologic Map of North Carolina, the subject site is located within the Yorktown basal formation of the Coastal Plain Physiographic Province of North Carolina. The Coastal Plain is typically characterized by marine and eolian sediments that were deposited during periods of fluctuating sea levels and moving shore lines. Near-surface and upper soils often consist of more recent undifferentiated deposits of inter-

bedded sands, silts, and clays. Deeper deposits also consist of sands, silts, or clays but can be defined as particular formations with distinguishable characteristics and engineering properties.

The geology in the area of the subject site primarily consists of Undifferentiated Surface Deposits of Quaternary Age and recent alluvial sediments. Typically, the Undifferentiated Deposits consist of silty and sandy clays, clayey sands, and silty sands. The deposits are underlain by the Yorktown Formation of the Middle Tertiary Age. The Yorktown Formation at this site consists of dark gray sandy silts, sandy clays, and clayey silts with shell fragments.

4.0 Exploration Program

Our field exploration included a visual site reconnaissance, performance of 13 widely-spaced soil test borings, and shallow probing along drainage features. Borings were advanced to approximately 15 feet below existing ground surface. Boring locations were established in the field by S&ME using a handheld GPS unit and should be considered approximate. Approximate test boring locations are shown on Figure 1 in the Appendix.

Soil test borings were advanced using hollow-stem-auger drilling procedures with an ATV mounted CME 550 drill rig. Within each boring, samples of subsurface soils were taken at 2.5-foot intervals above a depth of 10 feet, and at 5-foot intervals below 10 feet using a split-spoon sampler. Standard penetration testing was performed in conjunction with split-spoon sampling in general accordance with ASTM D 1586-11.

Groundwater measurements were attempted after drilling was completed in each boring and 24 hours after drilling in select borings. Boreholes were then backfilled with auger cuttings to the ground surface.

At completion of drilling operations, representative portions of split-spoon samples were returned to our laboratory for visual classification and testing. Soils were visually classified in general accordance with Unified Soil Classification System (USCS) guidelines.

Test Boring Records and a Generalized Subsurface Conditions Profile (Figure 2), showing specific subsurface information from each boring, are included in the Appendix. Stratification lines shown on Test Boring Records and Subsurface Profile are intended to represent approximate depths of changes in soil types. Naturally, transitional changes in soil types are often gradual and cannot be defined at a particular depth. Ground surface elevations shown on the Test Boring Records and Subsurface Profile were estimated from Google Earth and GIS topography data and should be considered approximate.

S&ME personnel also perform shallow probing along drainage features with a T-handle probe rod to measure approximate depths of water-softened soils within the features. Results of probing are discussed in the following section.

5.0 Surface and Subsurface Conditions

A surficial layer of topsoil, approximately 3 to 6 inches in thickness, was noted at the borings. Probing along drainage features revealed water-softened soils to depths ranging from about 1.5 to 3 feet below bottom of the features.

Possible fill soils were encountered below topsoil in boring B-6 to an approximate depth of 3 feet below ground surface. Fill soils encountered consisted of sandy clay with roots and black organic matter (USCS classification CL). Laboratory organic content testing revealed 2.5 percent organic matter (by weight). The SPT N-value recorded within the fill soil was 6 blows per foot (bpf). Fill soils were visually observed to be moist.

Coastal Plain soils were encountered below topsoil and fill in all borings. Coastal Plain soils encountered consisted of low to high plasticity clay (CL and CH) silty and clayey sand (SM and SC) and poorly graded sands (SP, SP-SM and SP-SC). SPT N-values in Coastal Plain soils ranged from 4 to 41 bpf, indicating silts and clays of soft to very stiff consistency, and sands of loose to dense relative density. Coastal Plain soils were visually observed to be moist to wet.

Groundwater measurements were attempted in all borings at completion of drilling (except for B-3) and 24 hours after drilling in select borings. Groundwater was encountered in all borings, except B-1 and B-3, at approximate depths ranging from 2.5 to 7 feet below ground surface. Boring B-1 was dry above its cave depth of 7 feet. Groundwater levels at boring B-3 were not measured, but based on observed moisture contents of the split-spoon samples, groundwater was estimated to be approximately 5 feet below ground surface. Groundwater elevations can be expected to fluctuate due to seasonal variations in rainfall, evaporation, and other factors.

6.0 Laboratory Test Results

Laboratory testing was performed on selected split-spoon samples. Laboratory testing included natural moisture content, grain size analyses, and Atterberg Limits tests. All laboratory testing was performed in general accordance with applicable ASTM standards.

The laboratory soil index test results are presented in Appendix III and are summarized in the following table.

Table 6-1 – Summary of Laboratory Testing

Boring No.	Sample Depth (ft)	Natural Moisture Content (%)	Percent Finer than No. 200 Sieve (%)	Atterberg Limits		Organic Content %	USCS[1]
				Liquid Limit	Plasticity Index		
B-1	1 – 2.5	23.3	---	62	35	---	CH
B-1	3.5 – 5	18.5	---	29	12	---	CL
B-2	1 – 2.5	16.6	---	40	23	---	CL
B-3	1 – 2.5	18.5	---	48	27	---	CL
B-5	1 – 2.5	18.8	---	29	11	---	CL
B-6	1 – 2.5	26.1	---	---	---	2.5	CL
B-7	1 – 2.5	19.9	---	37	20	---	CL
B-8	1 – 2.5	17	57.8	---	---	---	ML
B-10	1 – 2.5	16.5	---	30	14	---	CL
B-13	1 – 2.5	25.3	---	40	20	---	CL

[1]Where grain size analyses or Atterberg Limits testing was not conducted, classification based off visual inspection.

7.0 Preliminary Conclusions and Recommendations

The following preliminary conclusions and recommendations are based upon review of exploration data, our assumptions regarding planned development, laboratory testing data, our engineering analyses, and past experience with similar projects and subsurface conditions.

7.1 General Discussion

Based on our understanding of project development plans and geotechnical analyses of field and laboratory testing data, it is our opinion that this site is adaptable for the planned development provided that site preparation recommendations presented herein are implemented during construction.

The brief summary presented below should not be used for design or construction purposes without reviewing more detailed information in this report. Geotechnical considerations for this site include the following:

- **Previous Site Development –** Evidence of previous site development (i.e. degraded building structures and logging activities) were noted during site reconnaissance and review of historic site aerial photographs. Unexpected conditions associated with previous site development are anticipated to be encountered during construction. These conditions may include unknown underground structures, utility lines, additional poorly compacted fill materials, buried debris, subsurface void spaces, and others. If such conditions are encountered they should be addressed by S&ME during construction.

- **High Plasticity Soils –** Near-surface high plasticity soils (CH) were encountered in several borings. We recommend these soils not be present within 2 feet of final subgrade elevations in pavement areas or within 3 feet of final subgrade elevations in planned building areas.
- **Difficult Subgrade Preparation –** Relatively low consistency, fine-grained soils were encountered at the ground surface. These soils will likely require repair. The fine-grained soils encountered are also very susceptible to degradation due wet conditions and construction equipment.
- **Presence of Groundwater -** Groundwater was encountered in all borings, except B-1 and B-3, at approximate depths ranging from 2.5 to 7 feet below ground surface. Excavations below these depths will require dewatering.
- **Existing drainage features** – We recommend that loose/soft soils along the bottom of existing drainage features be removed. We recommend that French drains be installed along the bottom of existing drainage features to promote site drainage during grading.

7.1.1 General

Site grading will be difficult during periods of extended rainfall that generally occur during the winter months. Near-surface soils are moisture sensitive, and when wet, will tend to rut and pump under rubber-tired traffic and provide poor subgrade support for structures and pavements. To reduce potential earthwork problems, site preparation and grading should be scheduled during the typically drier months of May through November, if possible. If winter grading is attempted, repair of near-surface soils and possible use of select on-site or off-site borrow will be necessary to adequately prepare subgrades for new construction. Heavy rubber-tired construction equipment should not be allowed to operate on exposed subgrades during wet conditions. Even during drier periods of the year, we recommend that exposed subgrades be sloped and sealed at the end of each day to promote runoff and reduce infiltration from rainfall.

7.1.2 Site Preparation

Initial site preparation should include clearing of trees, grubbing of stumps, stripping of organics and topsoil, and any other deleterious materials. Site preparation should also include removal of existing structures and associated foundations, where present within planned development areas. Voids caused by removal of foundations, or other buried structures, should be backfilled with properly placed and compacted structural fill.

After stripping, exposed subgrade of areas to receive fill and areas near final grades should be evaluated by the geotechnical engineer or his representative. This evaluation should include proofrolling with a fully loaded tandem axle dump truck or similar rubber-tired construction equipment. Any areas that deflect excessively and cannot be densified by further rolling should be undercut to suitable soils or moisture conditioned and recompacted. Some undercut should be anticipated, especially in and around existing drainage features and near boring locations B-5, B-6, B-8, and B-10 which exhibit near-surface SPT N-values of 6 bpf or less. The amount of subgrade repair required for the soil types encountered can significantly increase during wet conditions. Limiting rubber-tired construction traffic on subgrades is also important to minimize the amount of subgrade repair required.

7.1.1 High Plasticity Soils

Near-surface, high plasticity soils were encountered in borings B-1, B-8, B-9, and B-12 to approximate depths ranging from 3 to 5.5 feet below ground surface. These soils have relatively high shrink/swell potential, are very sensitive to moisture content, and lose significant strength as they become saturated. High plasticity soils are generally not considered suitable within 2 feet beneath final pavement subgrades and 3 feet beneath final building subgrades. Where present, we recommend that high plasticity soils be undercut to these depths, and replaced with low plasticity material.

7.1.2 Drainage Features

Numerous drainage features exist on the site. Soft soils evidenced by probing were encountered in these areas during our site reconnaissance. Undercutting will be required along drainage features. We recommend that French drains be installed along existing drainage features to promote site drainage during grading. French drains should consist of a backhoe-excavated trench filled with washed stone and encapsulated by a geotextile filter fabric.

7.1.3 Possible Fill Soils

Possible fill soils were encountered below topsoil in boring B-6 to an approximate depth of 3 feet below ground surface. Fill soils encountered consisted of sandy clay with roots and black organic matter (USCS classification CL). Laboratory organic content testing revealed 2.5 percent organic matter (by weight). The SPT N-value recorded within the fill soil was 6 bpf. The origin of these potential fill soils is unknown, however, they could be attributed to past logging operations at the site.

Typically, existing fill with SPT values of less than 8 blows per foot are not well compacted; compaction is suspect when SPT values range from 8 to 10 blows per foot; and values in excess of 10 blows per foot are indicative of compacted fill. Based on the SPT N-value recorded in the possible fill and organic content of the possible fill material, we recommend these soils be removed and replaced with properly placed and compacted structural fill.

Further exploration (i.e. additional borings and/or test pits) should be performed during a final exploration to determine lateral and vertical extents of fill materials.

7.1.4 Excavations

Based on subsurface conditions encountered and assumed site grading, low to moderate consistency soils will be encountered within anticipated excavation depths at the site. Experience indicates that these materials can be excavated by routine earth moving equipment. Local excavations for shallow utility trenches and foundations can be accomplished by a conventional backhoe or track-mounted backhoe.

Groundwater was encountered at depths of 2.5 to 7 feet after drilling but may be shallower at different times of year or in unexplored areas on the site. Groundwater or perched water conditions will be encountered in deeper excavations such at utility trenches, particularly during wet periods of the year or after heavy rainfall. The contractor should be prepared to control any water that collects in excavations. The contractor should be responsible for determining groundwater control measures.

Excavations should be sloped or shored in accordance with local, state and federal regulations, including OSHA (29 CFR Part 1926) excavation trench safety standards. The contractor is usually responsible for site safety. This information is provided only as a service and under no circumstances should we be assumed responsible for construction site safety.

7.1.5 Reuse of On-Site Soil as Structural Fill

Soils at this site having Unified Soil Classifications of ML, CL, SC, SM, SP, SP-SM, and SP-SC should be suitable for reuse as structural fill provided that moisture content is properly controlled during placement and compaction. High plasticity soils may be used as structural fill in deeper fill areas (i.e. below 3 feet from subgrade elevations) provided their moisture content is properly controlled. However, these soils are highly susceptible to changes in moisture content which can make them difficult to use during site grading. An exception is that high plasticity soils should not be used behind retaining wall structures.

Based on visual observation and natural moisture content test results, moisture conditioning (drying/wetting) of on-site soils will likely be required, dependent upon the time of construction.

7.2 Preliminary Foundation Recommendations

Based on the results of the widely-spaced soil test borings, assumed structural loads, and assumption that the site is prepared as recommended above, we anticipate that proposed buildings can be supported on a shallow spread foundation system. Geotechnical design parameters for foundation design, along with settlement estimates, can be provided in a final geotechnical exploration report once project information is further developed and additional exploration is performed.

8.0 Additional Geotechnical Exploration

Once site plans and grading plans, and structural loading information have been developed, a final geotechnical exploration should be performed. The final exploration will include additional test borings, test pit excavations, laboratory testing, and engineering analyses. The final exploration would further evaluate subsurface conditions within planned development areas in order to confirm and extend the preliminary recommendations made herein.

9.0 Qualifications of Report

This preliminary report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. The preliminary conclusions and recommendations contained in this report are based upon applicable standards of our practice in this geographic area at the time this report was prepared. No other representation or warranty either express or implied, is made.

We relied on project information given to us to develop our preliminary conclusions and recommendations. If project information described in this report is not accurate, or if it changes during project development, we should be notified of the changes so that we can modify our recommendations based on this additional information if necessary.

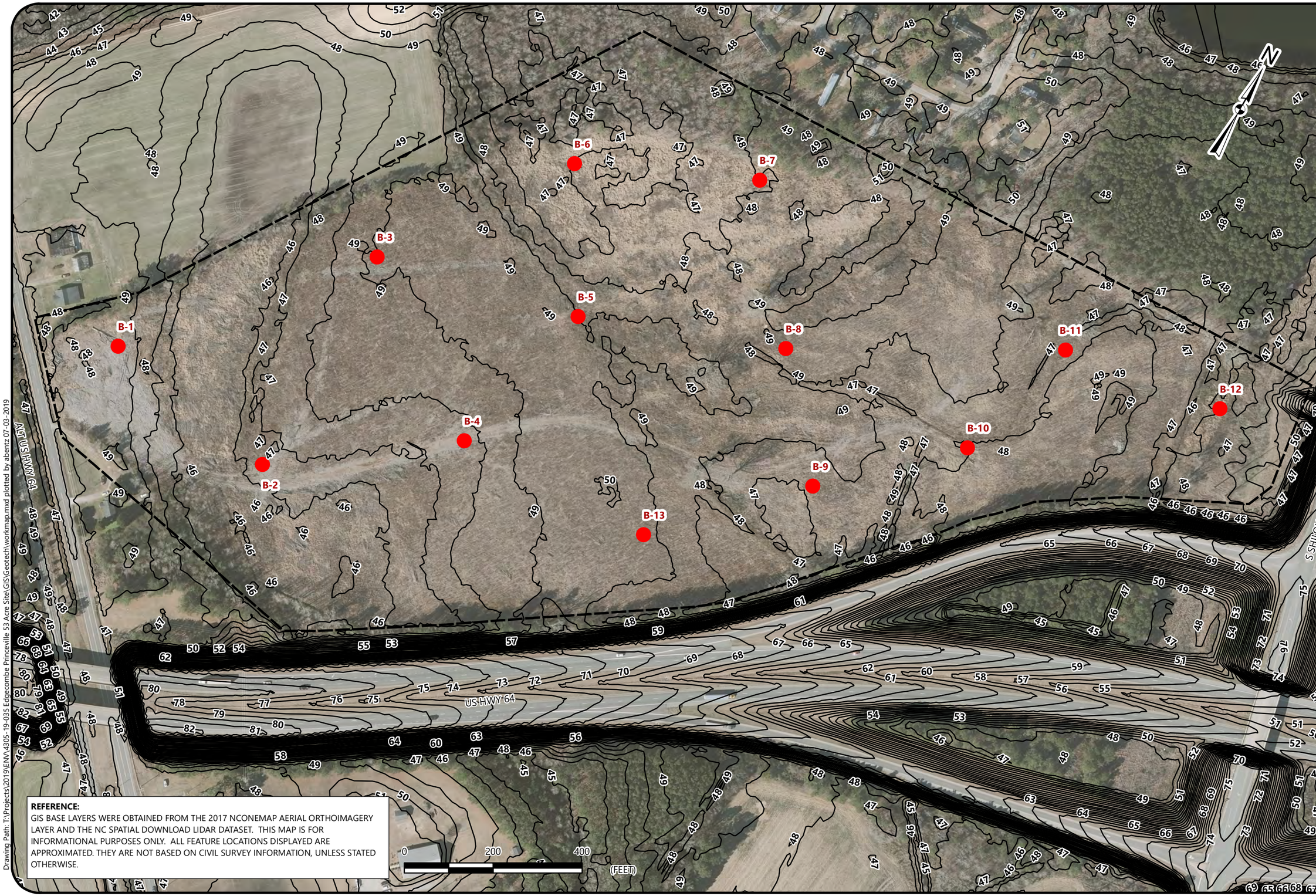
Our preliminary conclusions and recommendations are based on limited data from a field exploration program. Subsurface conditions can vary widely between explored areas. Some variations may not become evident until construction. If conditions are encountered which appear different than those described in our report, we should be notified. This report should not be construed to represent subsurface conditions for the entire site.

Unless specifically noted otherwise, our field exploration program did not include an assessment of regulatory compliance, environmental conditions or pollutants or presence of any biological materials (mold, fungi, bacteria). If there is a concern about these items, other studies should be performed. S&ME can provide a proposal and perform these services if requested.

S&ME should be provided the opportunity to review the final plans and specifications to confirm that our recommendations are properly interpreted and implemented. The recommendations in this report are contingent on S&ME's review of final plans and specifications followed by observation and monitoring during construction activities.

Appendices

Appendix I – Figures



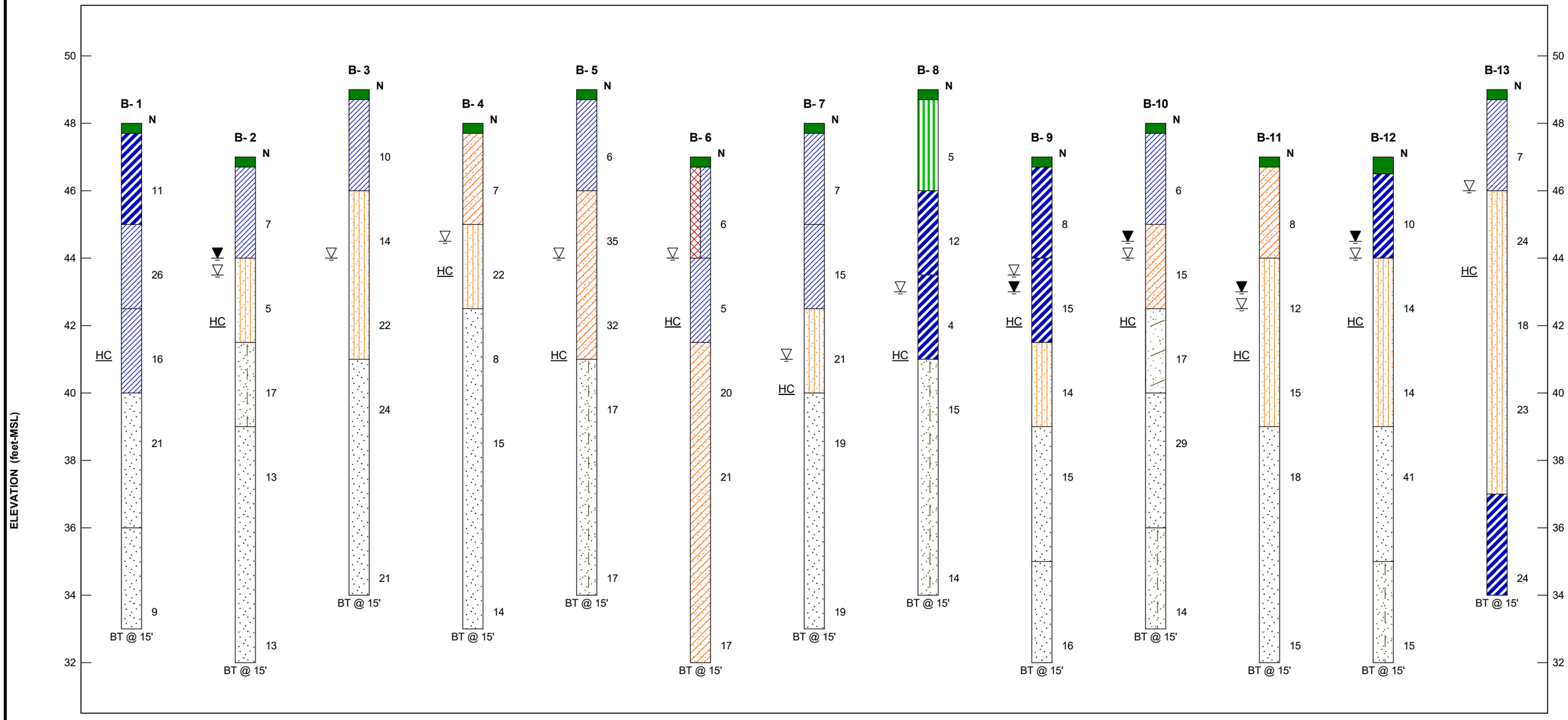
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE 2017 NCONEMAP AERIAL ORTHOIMAGERY LAYER AND THE NC SPATIAL DOWNLOAD LIDAR DATASET. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

BORING LOCATION PLAN

PRINCEVILLE 53-ACRE SITE
US-64 ALTERNATE AND SHILOH FARM ROAD
PRINCEVILLE, EDGECOMBE COUNTY, NORTH CAROLINA

SCALE:	1 " = 200 '
DATE:	7-3-19
PROJECT NUMBER	4305-19-035
FIGURE NO.	1

Drawing Path: T:\Projects\2019\ENV\4305-19-035 Edgecombe Princeville 53 Acre Site\GIS\Geotech\workmap.mxd plotted by abentz 07-03-2019



N = Standard Penetration Test resistance value (blows per foot). The depicted stratigraphy is shown for illustrative purposes only. The actual subsurface conditions will vary between boring locations. Elevations are approximate.

Diagram: Generalized Subsurface Profile **PROJECT: Edgecomb Princeville 53 Acre Site** **LOCATION: Princeville, North Carolina**	**JOB NO:** 4305-19-035 **DATE:** 7/15/19	**Figure 2**

Appendix II – Boring Logs

SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

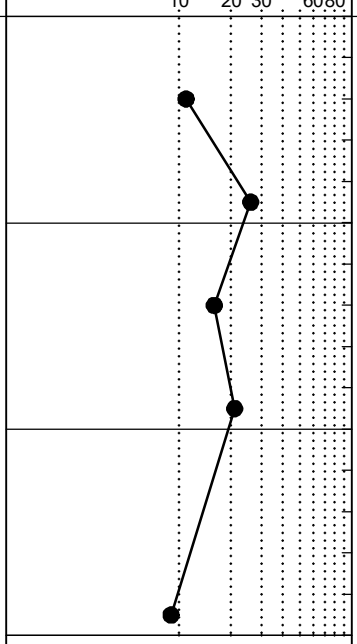
BORING LOG B- 1

DATE DRILLED: **6/19/19**	ELEVATION: **48.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **Caved Dry @ 7'**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: CLAY (CH) stiff, tan gray, moist, fat					4	3	8	11
5	**SANDY CLAY (CL)** very stiff, gray, trace mica, moist		43.0			9	11	15	26
	SANDY CLAY (CL) very stiff, gray, trace mica, moist, trace organics (wood/rootlets)	HC				3	7	9	16
10	**SAND (SP)** medium dense, gray, trace silt seam, coarse to fine, wet		38.0			8	11	10	21
	SAND (SP) loose, gray, trace silt seam, coarse to fine, wet								
15	Boring terminated at 15 ft		33.0			2	4	5	9

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

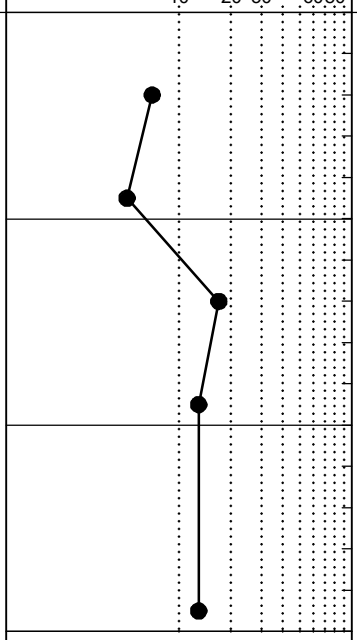
NOTES:

1. *THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.*
2. *BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.*
3. *STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.*
4. *WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.*

PROJECT:	**Edgecomb Princeville 53 Acre Site** **Princeville, North Carolina** **S&ME Project No. 4305-19-035**	**BORING LOG**	**B- 2**

DATE DRILLED: **6/19/19**	ELEVATION: **47.0 ft**	NOTES: **Boring location and elevation are approximate**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**	
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3.5' ATD, 3' 24 hr**	
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**	
SAMPLING METHOD: **Split spoon**		
DRILLING METHOD: **2¼" H.S.A.**		

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS (10 20 30 60 80)	N VALUE
		Topsoil (3 inches)									
		COASTAL PLAIN: SANDY CLAY (CL) firm, gray, moist					3	3	4		7
		SILTY SAND (SM) loose, gray, fine, wet, trace organics (rootlets)	HC				3	2	3		5
5				42.0							
		SAND (SP-SM) medium dense, light gray, some silt, coarse to fine, wet					6	10	7		17
		SAND (SP) medium dense, gray tan, coarse to fine, wet, trace organics					9	8	5		13
10				37.0							
							4	6	7		13
15				32.0							
		Boring terminated at 15 ft									



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

NOTES:

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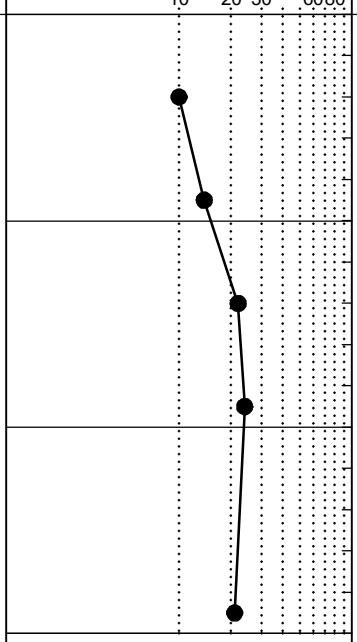
2. *BORING, SAMPLING AND PENETRATION TEST DATA IN GENERAL ACCORDANCE WITH ASTM D-1586.*
3. *STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.*
4. *WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.*

PROJECT:	Edgecomb Princeville 53 Acre Site Princeville, North Carolina S&ME Project No. 4305-19-035	BORING LOG	B- 3

DATE DRILLED: **6/20/19**	ELEVATION: **49.0 ft**	NOTES: **Boring location and elevation are approximate.**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**	***Offset about 20 feet east.**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **Estimated @ 5'**	
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**	
SAMPLING METHOD: **Split spoon**		
DRILLING METHOD: **2¼" H.S.A.**		

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS	N VALUE
		Topsoil (3 inches)									
		COASTAL PLAIN: SANDY CLAY (CL) stiff, brown, moist					3	4	6		10
		SILTY SAND (SM) medium dense, gray brown, fine, moist					6	6	8		14
5		- - - Wet, coarse to fine	▽	44.0			8	9	13		22
		SAND (SP) medium dense, tan, coarse to fine, wet					10	10	14		24
10				39.0							
							7	8	13		21
15		Boring terminated at 15 ft		34.0							



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

NOTES:

1. *THIS LOG IS ONLY A PORTION OF A REPORT PREPARED FOR THE NAMED PROJECT AND MUST ONLY BE USED TOGETHER WITH THAT REPORT.*
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3. *STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.*
4. *WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.*

PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

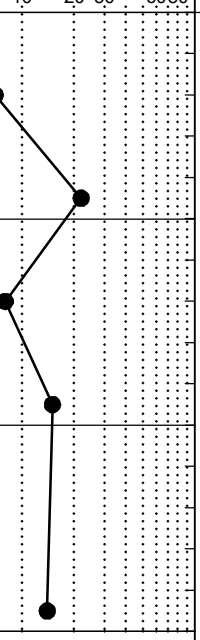
BORING LOG B- 4

DATE DRILLED: **6/19/19**	ELEVATION: **48.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3.5' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: CLAYEY SAND (SC) loose, gray, fine to coarse, moist					3	3	4	7
5	**SILTY SAND (SM)** medium dense, gray tan, coarse to fine, wet, trace organics (wood)	HC	43.0			9	10	12	22
	SAND (SP) loose to medium dense, tan, coarse to fine, wet, trace organics (small seams)					2	4	4	8
10			38.0			8	6	9	15
15			33.0			6	7	7	14
	Boring terminated at 15 ft								

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

NOTES:

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3. *STRATIFICATION AND GROUNDWATER DEPTHS ARE NOT EXACT.*
4. *WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.*

PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

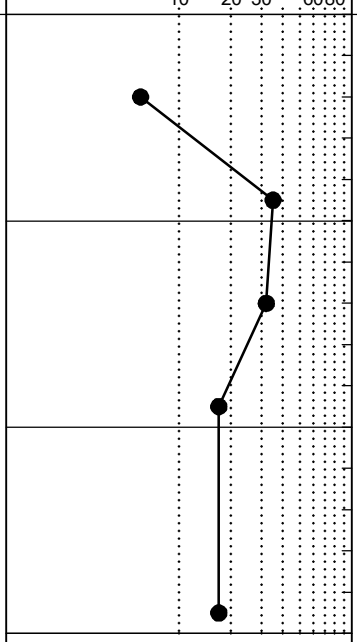
BORING LOG **B- 5**

DATE DRILLED: **6/20/19**	ELEVATION: **49.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **5' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: SANDY CLAY (CL) firm, brown, moist, trace organics (rootlets)					3	3	3	6
5	**CLAYEY SAND (SC)** dense, gray, coarse to fine, moist to wet, trace organics (wood/stems)	▽	44.0			8	14	21	35
		HC				10	14	18	32
10	**SAND (SP-SM)** medium dense, light gray, with silt, medium, wet		39.0			9	6	11	17
	- - - Gray tan								
15			34.0			5	7	10	17
	Boring terminated at 15 ft								

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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4. *WATER LEVEL IS AT TIME OF EXPLORATION AND WILL VARY.*

PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

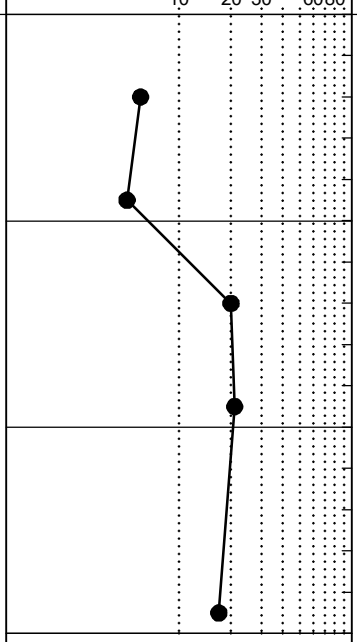
BORING LOG **B- 6**

DATE DRILLED: **6/20/19**	ELEVATION: **47.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	POSSIBLE FILL: SANDY CLAY (CL) firm, gray black, moist, with organics (roots/black organic matter)	▽				2	3	3	6
	COASTAL PLAIN: SANDY CLAY (CL) firm, gray, wet	HC				2	3	2	5
5			42.0						
	CLAYEY SAND (SC) medium dense, brown dark gray, medium, wet, trace organics (roots/black organic matter)					5	10	10	20
						7	8	13	21
10			37.0						
	- - - Gray tan, no organics					3	6	11	17
15			32.0						
	Boring terminated at 15 ft								

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

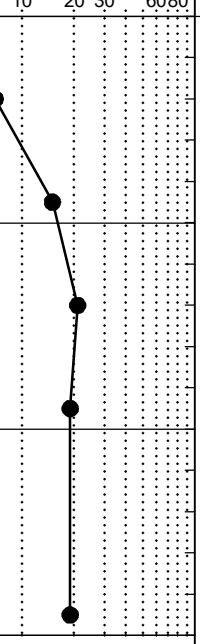
BORING LOG **B- 7**

DATE DRILLED: **6/20/19**	ELEVATION: **48.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **7' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: SANDY CLAY (CL) firm, gray, moist					2	3	4	7
	SANDY CLAY (CL) stiff, gray, moist					4	7	8	15
5			43.0						
	SILTY SAND (SM) medium dense, gray tan, with clay seam, fine, moist, trace organics (roots/black organic matter)	▽ HC				7	8	13	21
	SAND (SP) medium dense, light gray, coarse to fine, wet, trace organics (wood)					4	8	11	19
10			38.0						
15			33.0			7	6	13	19
	Boring terminated at 15 ft								

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

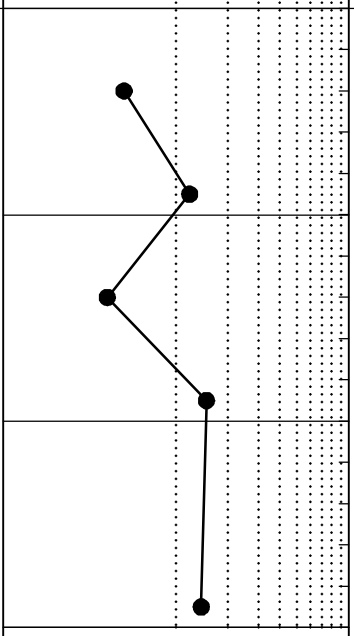
BORING LOG B- 8

DATE DRILLED: **6/20/19**	ELEVATION: **49.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **6' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: SANDY SILT (ML) firm, tan gray, moist					2	2	3	5
	CLAY (CH) stiff, gray, with sand, moist					5	6	6	12
5			44.0						
	CLAY (CH) soft, gray, with sand, moist, trace organics (wood/roots)	HC				2	2	2	4
	SAND (SP-SM) medium dense, gray tan, with silt, fine to coarse, wet					3	9	6	15
10			39.0						
						6	6	8	14
15	Boring terminated at 15 ft		34.0						

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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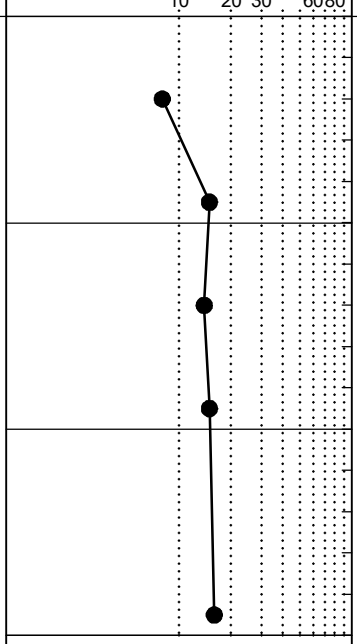
PROJECT:	Edgecomb Princeville 53 Acre Site Princeville, North Carolina S&ME Project No. 4305-19-035	BORING LOG	B- 9

DATE DRILLED: **6/19/19**	ELEVATION: **47.0 ft**	NOTES: **Boring location and elevation are approximate.**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**	***Offset about 20 feet west.**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3.5' ATD, 4' 24 hr**	
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**	
SAMPLING METHOD: **Split spoon**		
DRILLING METHOD: **2¼" H.S.A.**		

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS	N VALUE
		Topsoil (3 inches)									
		COASTAL PLAIN: CLAY (CH) firm, brown gray, trace rootlets, moist, fat					3	4	4		8
5		**CLAY (CH)** stiff, gray, with sand, moist to wet, trace organics (wood)	HC	42.0			5	5	10		15
		SILTY SAND (SM) medium dense, dark gray, fine, wet					5	3	11		14
10		**SAND (SP)** medium dense, gray, with clay seam, coarse to fine, wet, with organics (wood)		37.0			11	8	7		15
		SAND (SP) medium dense, gray, medium to fine, wet					6	7	9		16
15		Boring terminated at 15 ft		32.0							



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

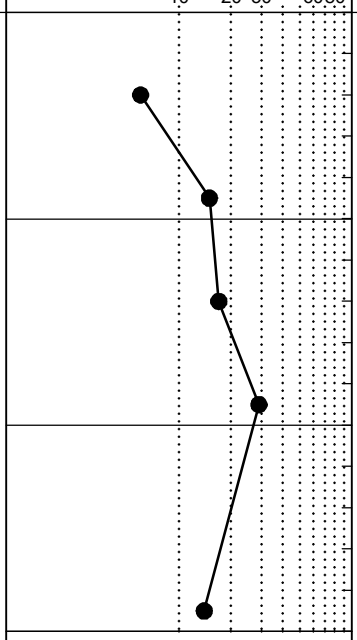
BORING LOG **B-10**

DATE DRILLED: **6/19/19**	ELEVATION: **48.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **4' ATD, 3.5' 24 hr**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: SANDY CLAY (CL) firm, gray, moist					2	3	3	6
	CLAYEY SAND (SC) medium dense, gray, coarse to fine, wet					4	7	8	15
5			43.0						
	SAND (SP-SC) medium dense, gray, with clay, with clay seam, coarse to fine, wet	HC				5	8	9	17
	SAND (SP) medium dense, light gray, coarse to fine, wet					10	11	18	29
10			38.0						
	SAND (SP-SM) medium dense, tan gray, with silt, coarse to fine, wet, trace organics (wood)					4	7	7	14
15			33.0						
	Boring terminated at 15 ft								

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

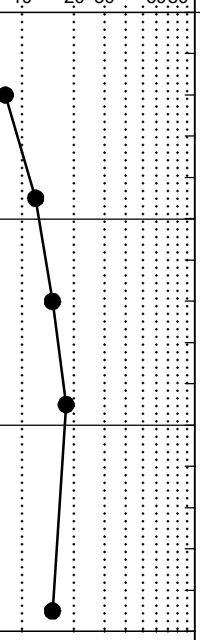
BORING LOG B-11

DATE DRILLED: **6/19/19**	ELEVATION: **47.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **4.5' ATD, 4' 24 hr**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: CLAYEY SAND (SC) loose, brown gray, fine, moist					4	3	5	8
	SILTY SAND (SM) medium dense, gray, fine to coarse, wet					4	6	6	12
5		HC	42.0			3	6	9	15
	SAND (SP) medium dense, gray, coarse to fine, wet, trace organics (roots/black organic matter)					6	8	10	18
10			37.0						
						4	7	8	15
15	Boring terminated at 15 ft		32.0						

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

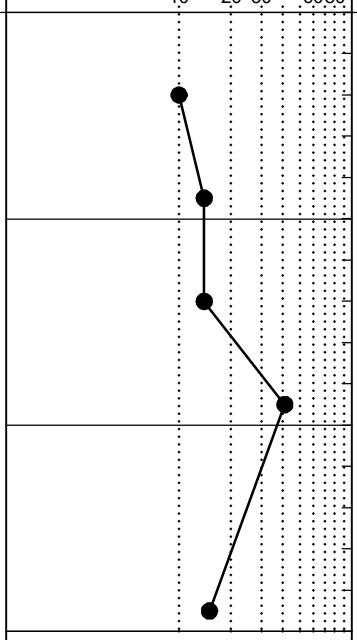
BORING LOG **B-12**

DATE DRILLED: **6/19/19**	ELEVATION: **47.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3' ATD, 2.5' 24 hr**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (6 inches)								
	COASTAL PLAIN: CLAY (CH) stiff, gray, trace rootlets, moist, fat					4	4	6	10
	SILTY SAND (SM) medium dense, gray, fine, moist to wet	HC				6	6	8	14
5			42.0			3	6	8	14
	SAND (SP) dense, light gray, medium to fine, wet					15	18	23	41
10			37.0						
	SAND (SP-SM) medium dense, gray, with silt, coarse to fine, wet					5	7	8	15
15	Boring terminated at 15 ft		32.0						

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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PROJECT: **Edgecomb Princeville 53 Acre Site**
Princeville, North Carolina
S&ME Project No. 4305-19-035

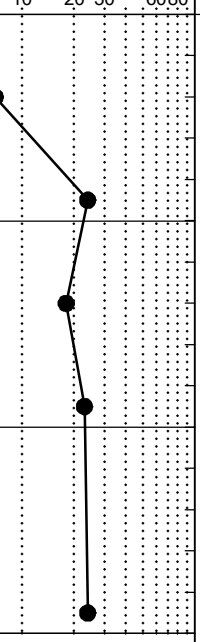
BORING LOG **B-13**

DATE DRILLED: **6/20/19**	ELEVATION: **49.0 ft**
DRILL RIG: **CME 550**	BORING DEPTH: **15.0 ft**
DRILLER: **J&L Drilling Inc.**	WATER LEVEL: **3' ATD**
HAMMER TYPE: **Safety**	LOGGED BY: **E. Blonshine**
SAMPLING METHOD: **Split spoon**	
DRILLING METHOD: **2¼" H.S.A.**	

NOTES: **Boring location and elevation are approximate**

DEPTH (feet)	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet)	SAMPLE NO.	SAMPLE TYPE	BLOW COUNT / CORE DATA 1st 6in / RUN #	2nd 6in / REC	3rd 6in / RQD	N VALUE
	Topsoil (3 inches)								
	COASTAL PLAIN: SANDY CLAY (CL) firm, brown, moist, trace organics	▽				3	3	4	7
5	**SILTY SAND (SM)** medium dense, gray tan, medium to fine, moist to wet	HC	44.0			9	13	11	24
						8	8	10	18
	- - - Gray					8	9	14	23
10			39.0						
	SANDY CLAY (CH) very stiff, blue green, wet					7	10	14	24
15	Boring terminated at 15 ft		34.0						

STANDARD PENETRATION TEST DATA (blows/ft) / REMARKS



S&ME BORING LOG NO NORTHING AND EASTING 4305-19-035.GPJ S&ME.GDT 7/15/19

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Appendix III – Laboratory Results

Form No: TR-D2216-T265-2
Revision No. 1
Revision Date: 08/16/17

LABORATORY DETERMINATION OF WATER CONTENT

ASTM D 2216 ☑ *AASHTO T 265* ☐

S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/6/19
Project Name:	Princeville 53 Acre Site	Test Date(s):	7/5 - 7/6/19
Client Name:	Edgecombe County		
Sample by:	J&L	Sample Date(s):	6/19/19
Sampling Method:	Split Spoon	Drill Rig :	N/A

Method: **A (1%)** ☐ **B (0.1%)** ☑

Balance ID. 20977 Calibration Date: 4/5/19
Oven ID. 1454 Calibration Date: 11/29/18

Boring No.	Sample No.	Sample Depth	Tare #	Tare Weight	Tare Wt.+ Wet Wt	Tare Wt. + Dry Wt	Water Weight	Percent Moisture
		ft.		grams	grams	grams	grams	%
B-1	SS-1	1 - 2.5		45.69	184.45	158.21	26.24	23.3%
B-1	SS-2	3.5 - 5		49.60	191.74	169.59	22.15	18.5%
B-2	SS-1	1 - 2.5		49.87	143.04	129.79	13.25	16.6%
B-3	SS-1	1 - 2.5		45.89	186.79	164.80	21.99	18.5%
B-5	SS-1	1 - 2.5		50.37	197.75	174.39	23.36	18.8%
B-6	SS-1	1 - 2.5		46.09	218.43	182.75	35.68	26.1%
B-7	SS-1	1 - 2.5		47.25	207.04	180.54	26.50	19.9%
B-8	SS-1	1 - 2.5		8.25	230.89	198.56	32.33	17.0%
B-10	SS-1	1 - 2.5		48.11	190.32	170.18	20.14	16.5%
B-13	SS-1	1 - 2.5		38.76	173.53	146.34	27.19	25.3%

Notes / Deviations / References

AASHTO T 265: Laboratory Determination of Moisture Content of Soils

ASTM D 2216: Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

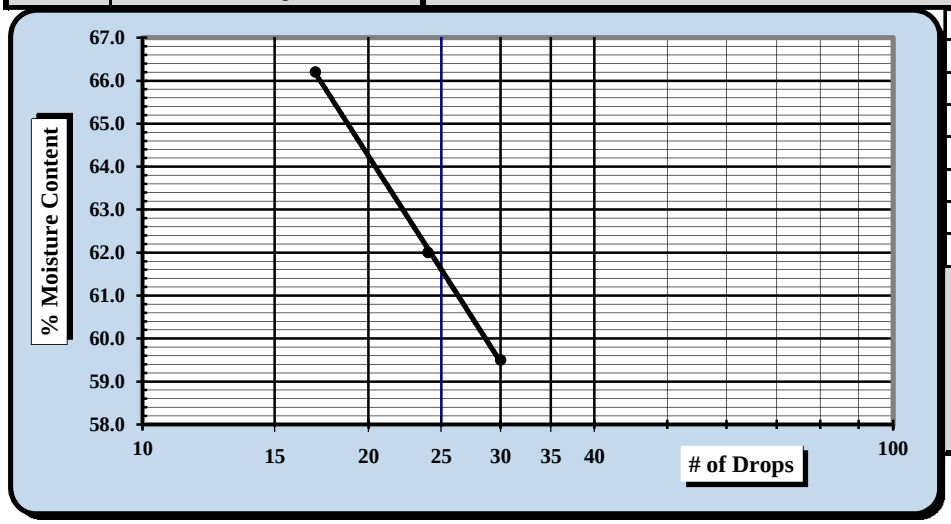
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-1	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Gray CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	13.63	13.67	13.73				21.06	13.66	
B	Wet Soil Weight + A	25.34	26.52	26.08				27.30	19.35	
C	Dry Soil Weight + A	20.97	21.60	21.16				26.01	18.13	
D	Water Weight (B-C)	4.37	4.92	4.92				1.29	1.22	
E	Dry Soil Weight (C-A)	7.34	7.93	7.43				4.95	4.47	
F	% Moisture (D/E)*100	59.5%	62.0%	66.2%				26.1%	27.3%	
N	# OF DROPS	30	24	17				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**26.7%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**62**
Plastic Limit	**27**
Plastic Index	**35**
Group Symbol	**CH**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 1.0%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

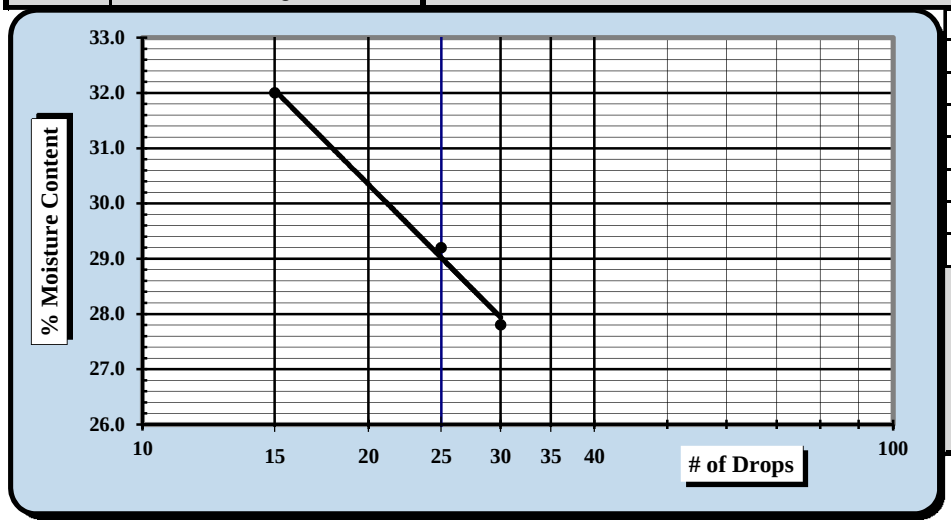
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-1	Sample #: SS-2	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 3.5 - 5 ft.
Sample Description:	Gray Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	13.68	20.88	21.29				21.25	20.89	
B	Wet Soil Weight + A	23.84	31.76	33.46				27.58	27.16	
C	Dry Soil Weight + A	21.63	29.30	30.51				26.64	26.24	
D	Water Weight (B-C)	2.21	2.46	2.95				0.94	0.92	
E	Dry Soil Weight (C-A)	7.95	8.42	9.22				5.39	5.35	
F	% Moisture (D/E)*100	27.8%	29.2%	32.0%				17.4%	17.2%	
N	# OF DROPS	30	25	15				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**17.3%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**29**
Plastic Limit	**17**
Plastic Index	**12**
Group Symbol	**CL**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 10.4%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

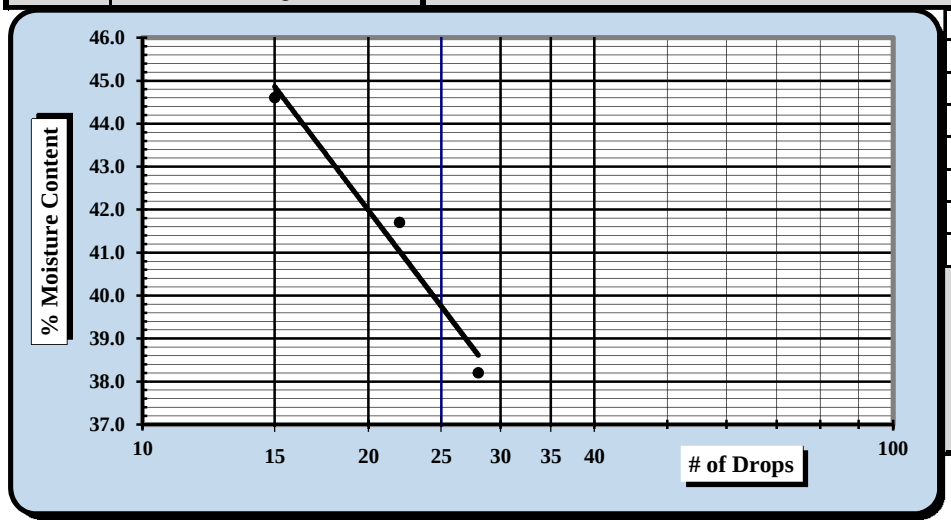
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-2	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Gray Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.26	21.17	20.94				16.70	11.03	
B	Wet Soil Weight + A	32.88	35.07	32.02				27.40	22.77	
C	Dry Soil Weight + A	29.67	30.98	28.60				25.85	21.05	
D	Water Weight (B-C)	3.21	4.09	3.42				1.55	1.72	
E	Dry Soil Weight (C-A)	8.41	9.81	7.66				9.15	10.02	
F	% Moisture (D/E)*100	38.2%	41.7%	44.6%				16.9%	17.2%	
N	# OF DROPS	28	22	15				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**17.1%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**40**
Plastic Limit	**17**
Plastic Index	**23**
Group Symbol	**CL**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 23.7%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

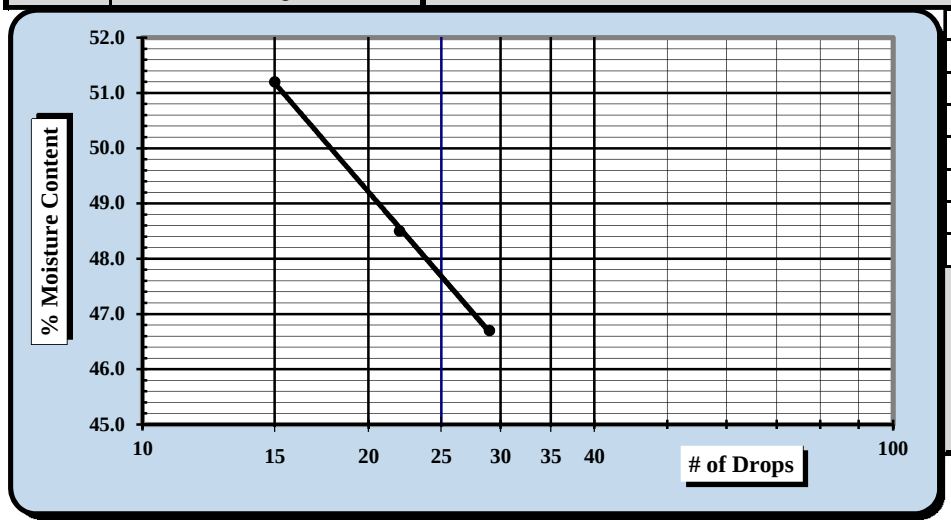
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-3	Sample #: SS-1		Sample Date: 6/19/19	
Location:	Site	Offset: N/A		Depth (ft): 1 - 2.5 ft.	
Sample Description:	Tan-Brown Sandy CLAY				

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.21	20.86	13.55				16.74	21.27	
B	Wet Soil Weight + A	31.98	31.58	25.18				26.31	30.42	
C	Dry Soil Weight + A	28.55	28.08	21.24				24.61	28.84	
D	Water Weight (B-C)	3.43	3.50	3.94				1.70	1.58	
E	Dry Soil Weight (C-A)	7.34	7.22	7.69				7.87	7.57	
F	% Moisture (D/E)*100	46.7%	48.5%	51.2%				21.6%	20.9%	
N	# OF DROPS	29	22	15				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**21.3%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**48**
Plastic Limit	**21**
Plastic Index	**27**
Group Symbol	**CL**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 20.7%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

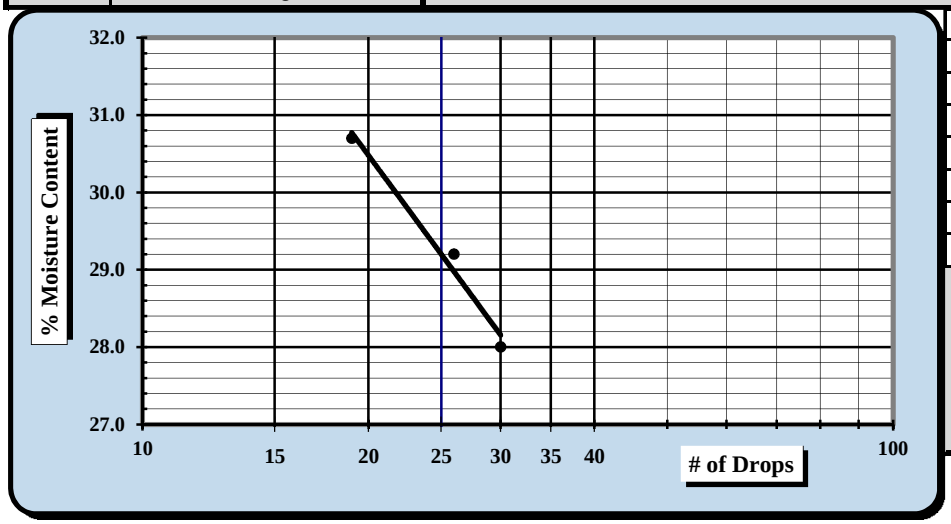
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-5	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Tan-Brown Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.17	13.55	13.74				11.12	11.00	
B	Wet Soil Weight + A	31.63	24.26	25.87				19.89	20.05	
C	Dry Soil Weight + A	29.34	21.84	23.02				18.56	18.66	
D	Water Weight (B-C)	2.29	2.42	2.85				1.33	1.39	
E	Dry Soil Weight (C-A)	8.17	8.29	9.28				7.44	7.66	
F	% Moisture (D/E)*100	28.0%	29.2%	30.7%				17.9%	18.1%	
N	# OF DROPS	30	26	19				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**18.0%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic ☐

Liquid Limit	**29**
Plastic Limit	**18**
Plastic Index	**11**
Group Symbol	**CL**

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 17.1%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No: TR-D2974-1
Revision No. 0
Revision Date: 08/28/17

Moisture, Ash, and Organic Matter

ASTM D-2974

S&ME, Inc. Raleigh, 3201 Spring Forest Raod, Raleigh, North Carolina 27616

Project #:	4305-19-035	Report Date:	7/8/19
Project Name:	Princeville 53 Acre Site	Test Date(s):	7/5 - 7/8/19
Client Name:	Edgecombe County		

Boring #:	B-6	Sample No.	SS-1	Sample Date:	6/19/2019
Location:	Site-Borehole	Offset:	N/A	Depth (ft):	1 - 2.5 ft.

Sample Description: Dark Gray Sandy CLAY with Oragnic

Equipment: Balance: 0.01 g.Readability, 500g. Minimum Capaccity

Balance: S&ME ID #: **1024** Cal. Date: **11/4/18** Due: **11/4/19**

Method A: Moisture Content Determination Required Oven Temperature:105 ± 5°C

Oven Temperature: 105 °C		Tare #	1
t	Tare Weight (Dish plus Aluminum Foil Cover)	grams	46.09
a	Mass of **As-Received** Specimen + Tare Wt.	grams	218.43
b	Mass of Oven Dry Specimen + Tare Wt.	grams	182.75
w	Water Weight	(a-b)	35.68
A	Mass of As-Received Specimen	(a-t)	172.34
B	Mass of Oven Dry Specimen	(b-t)	136.66
% Moisture Content as a % of As Received or Total Mass		(w/A)*100	**20.7%**
% Moisture Content as a % of Oven-dried Mass		(w/B)*100	**26.1%**

Oven S&ME ID #: 1454 Cal. Date: 10/8/18 Due: 10/8/19

Method C (440°C) or D (750°C): Ash Content and Organic Matter Determination

Muffle Furnace: 450 °C		Tare #	6
t	Tare Weight (Dish plus Aluminum Foil Cover)	grams	48.78
b	Mass of Oven Dry Specimen + Tare Wt.	grams	130.78
c	Ash Weight + Tare Wt.	grams	128.69
C	Ash Weight	c-t	79.91
B	Mass of Oven Dry Specimen	(b-t)	82.00
D	**% Ash Content**	(C/B)*100	**97.5%**
	% Organic Matter	100-D	**2.5%**

Muffle Furnace: S&ME ID #: 00261

Notes / Deviations / References:

ASTM D2974: Moisture, Ash, and Organic Matter of Peat and Other Organic Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

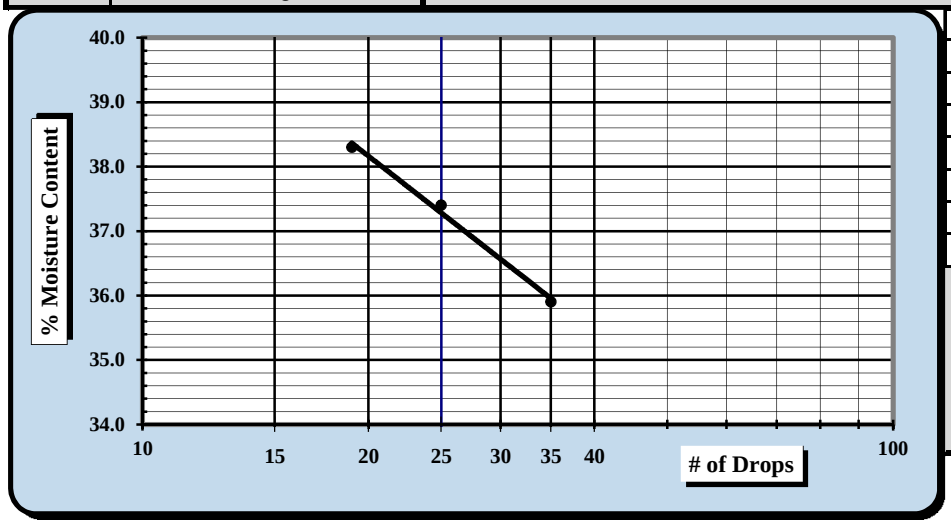
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/15/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/15/19
Client Name:	Edgecombe County		

Boring #:	B-7	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Gray Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.18	21.24	13.36				13.67	20.86	
B	Wet Soil Weight + A	33.60	32.52	24.62				23.51	30.67	
C	Dry Soil Weight + A	30.32	29.45	21.50				22.05	29.28	
D	Water Weight (B-C)	3.28	3.07	3.12				1.46	1.39	
E	Dry Soil Weight (C-A)	9.14	8.21	8.14				8.38	8.42	
F	% Moisture (D/E)*100	35.9%	37.4%	38.3%				17.4%	16.5%	
N	# OF DROPS	35	25	19				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**17.0%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**37**
Plastic Limit	**17**
Plastic Index	**20**
Group Symbol	**CL**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 14.8%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No TR-D6913-GR-01
Revision No. 1
Revision Date: 9/5/17

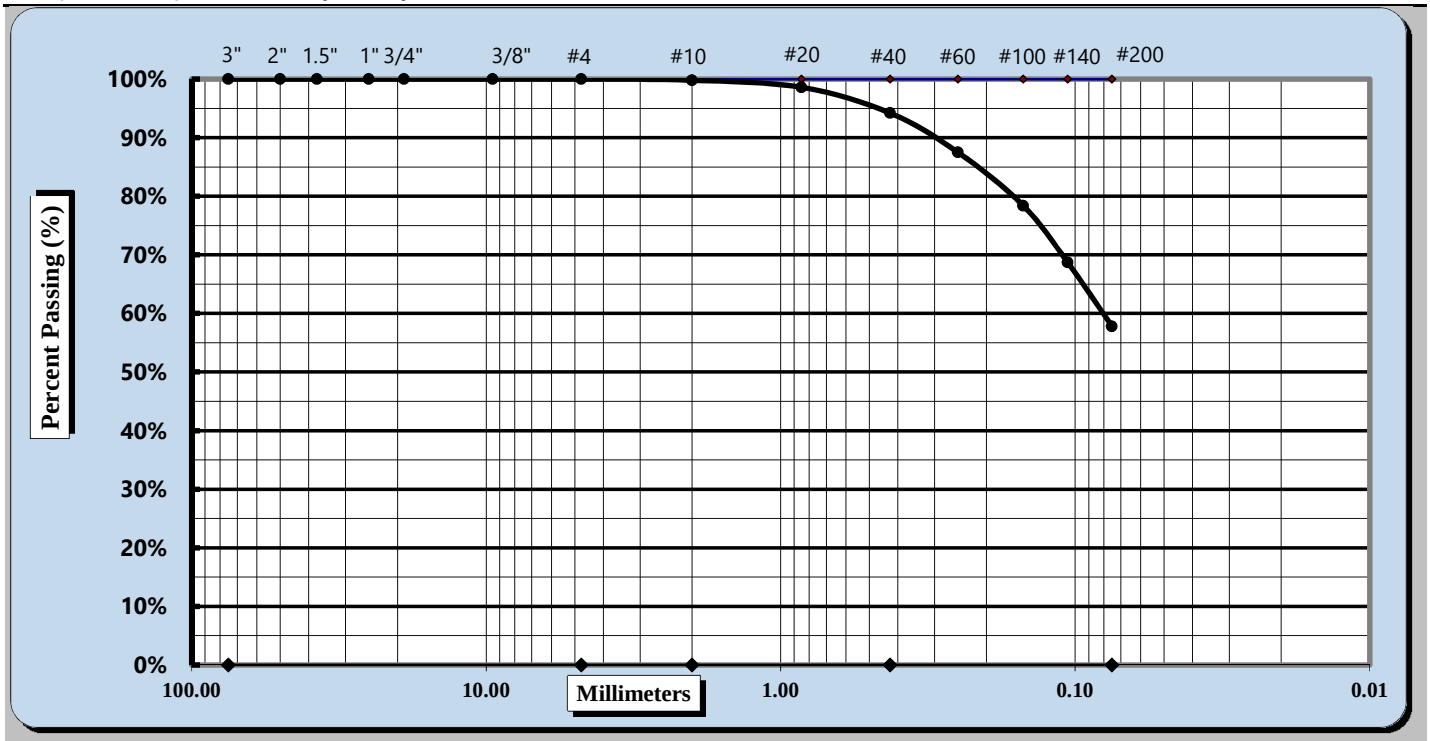
SIEVE ANALYSIS OF SOIL

Single sieve set ASTM D6913

S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Record Date:	6/28/2019
Project Name:	Princeville 53 Acre Site	Lab Report #:	1
Client Name:	Edgecombe County	Date Received:	6/20/2019
Received By:	Lab Tech	Sampled by: J&L	Date Sampled: 6/19/2019
Location:	Site-Borehole	Boring #: B-8	Sample #:
Log/Sample Id.	253	Type: Split Spoon	Elev/Depth (ft): 1-2.5 ft.

Sample Description: Gray Sandy SILT



Cobbles	< 300 mm (12") and > 75 mm (3")	Fine Sand	< 0.425 mm and > 0.075 mm
Gravel	< 75 mm and > 4.75 mm (#4)	Silt	< 0.075 and > 0.005 mm
Coarse Sand	< 4.75 mm and >2.00 mm (#10)	Clay	< 0.005 mm
Medium Sand	< 2.00 mm and > 0.425 mm (#40)	Colloids	< 0.001 mm

Method: B Procedure for obtaining Specimen: Moist

Maximum Particle Size	#4	Coarse Sand	0.2%	Fine Sand	36.4%
Gravel	0.0%	Medium Sand	5.6%	Silt & Clay	57.8%
Liquid Limit	ND	Plastic Limit	ND	Plastic Index	ND
Maximum Dry Density	ND	Bulk Gravity (C127)	N/A	% Absorption	N/A
Optimum Moisture	ND	Natural Moisture	17.0%		

Notes / Deviations / References: ND=Not Determined.

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

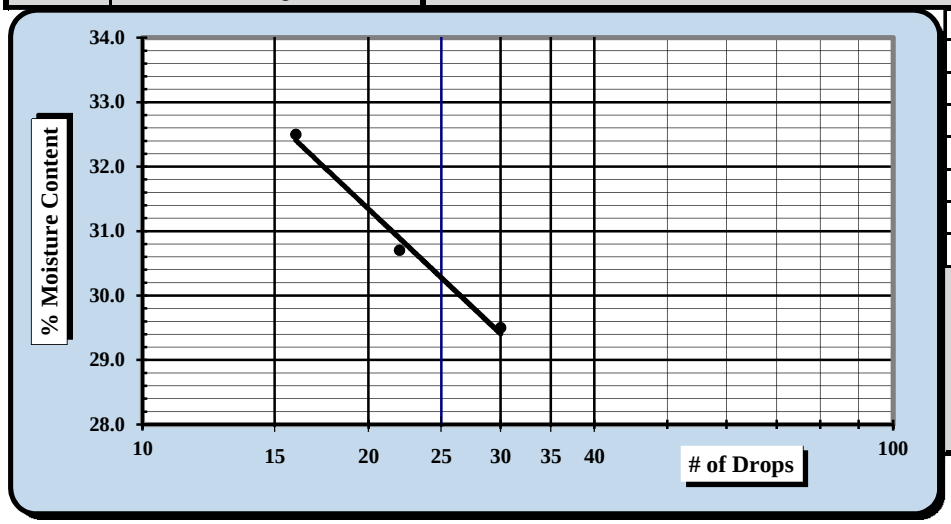
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/15/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/15/19
Client Name:	Edgecombe County		

Boring #:	B-10	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Gray Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.26	21.14	20.73				13.55	21.24	
B	Wet Soil Weight + A	34.88	32.50	32.30				24.07	28.47	
C	Dry Soil Weight + A	31.78	29.83	29.46				22.59	27.46	
D	Water Weight (B-C)	3.10	2.67	2.84				1.48	1.01	
E	Dry Soil Weight (C-A)	10.52	8.69	8.73				9.04	6.22	
F	% Moisture (D/E)*100	29.5%	30.7%	32.5%				16.4%	16.2%	
N	# OF DROPS	30	22	16				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**16.3%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**30**
Plastic Limit	**16**
Plastic Index	**14**
Group Symbol	**CL**

Multipoint Method ☑
One-point Method ☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 25.7%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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Form No. TR-D4318-T89-90
Revision No.
Revision Date: 8/28/17

LIQUID LIMIT, PLASTIC LIMIT, & PLASTIC INDEX

ASTM D 4318 ☒ AASHTO T 89 ☐ AASHTO T 90 ☐

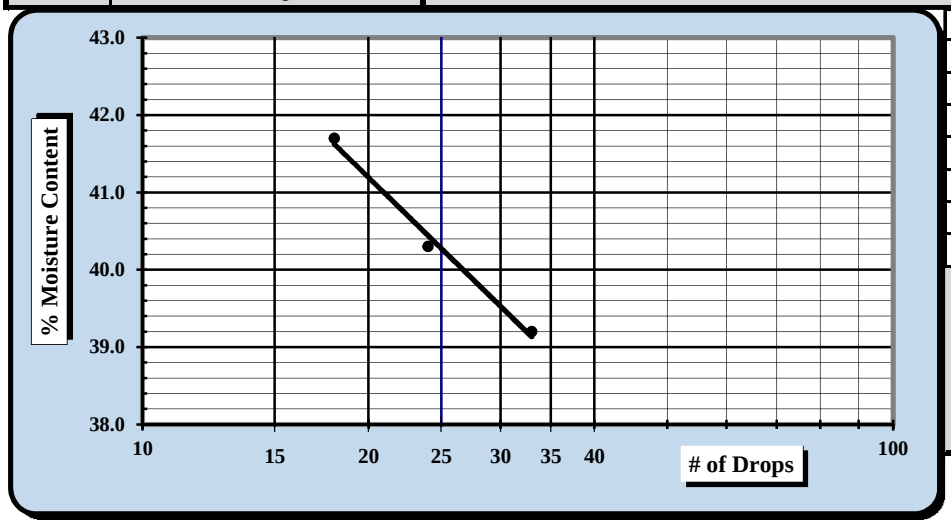
S&ME, Inc. Raleigh: 3201 Spring Forest Road, Raleigh, NC 27616

Project #:	4305-19-035	Report Date:	7/15/19
Project Name:	Princeville 53 Acre Site	Test Date(s)	7/5 - 7/15/19
Client Name:	Edgecombe County		

Boring #:	B-13	Sample #: SS-1	Sample Date: 6/19/19
Location:	Site	Offset: N/A	Depth (ft): 1 - 2.5 ft.
Sample Description:	Tan-Brown Sandy CLAY		

Type and Specification	*S&ME ID #*	*Cal Date:*	*Type and Specification*	*S&ME ID #*	*Cal Date:*
Balance (0.01 g)	20977	4/5/2019	Grooving tool	S-1	5/22/2019
LL Apparatus	1803	8/13/2018			
Oven	1454	11/29/2018			

Pan #		Liquid Limit						Plastic Limit		
	Tare #:									
A	Tare Weight	21.31	21.03	21.25				16.69	15.28	
B	Wet Soil Weight + A	33.02	31.54	32.98				24.03	23.16	
C	Dry Soil Weight + A	29.72	28.52	29.53				22.78	21.83	
D	Water Weight (B-C)	3.30	3.02	3.45				1.25	1.33	
E	Dry Soil Weight (C-A)	8.41	7.49	8.28				6.09	6.55	
F	% Moisture (D/E)*100	39.2%	40.3%	41.7%				20.5%	20.3%	
N	# OF DROPS	33	24	18				*Moisture Contents determined by ASTM D 2216*		
LL	LL = **F** * FACTOR									
Ave.	*Average*							**20.4%**		



One Point Liquid Limit

N	Factor	N	Factor
20	0.974	26	1.005
21	0.979	27	1.009
22	0.985	28	1.014
23	0.99	29	1.018
24	0.995	30	1.022
25	1.000		

NP, Non-Plastic	☐
Liquid Limit	**40**
Plastic Limit	**20**
Plastic Index	**20**
Group Symbol	**CL**
Multipoint Method	☑
One-point Method	☐

Wet Preparation ☐ Dry Preparation ☐ Air Dried ☑ *Estimate the % Retained on the #40 Sieve:* 5.2%

Notes / Deviations / References:

ASTM D 4318: Liquid Limit, Plastic Limit, & Plastic Index of Soils

Mal Krajan, ET		Laboratory Manager	7/15/2019
Technical Responsibility	*Signature*	*Position*	*Date*

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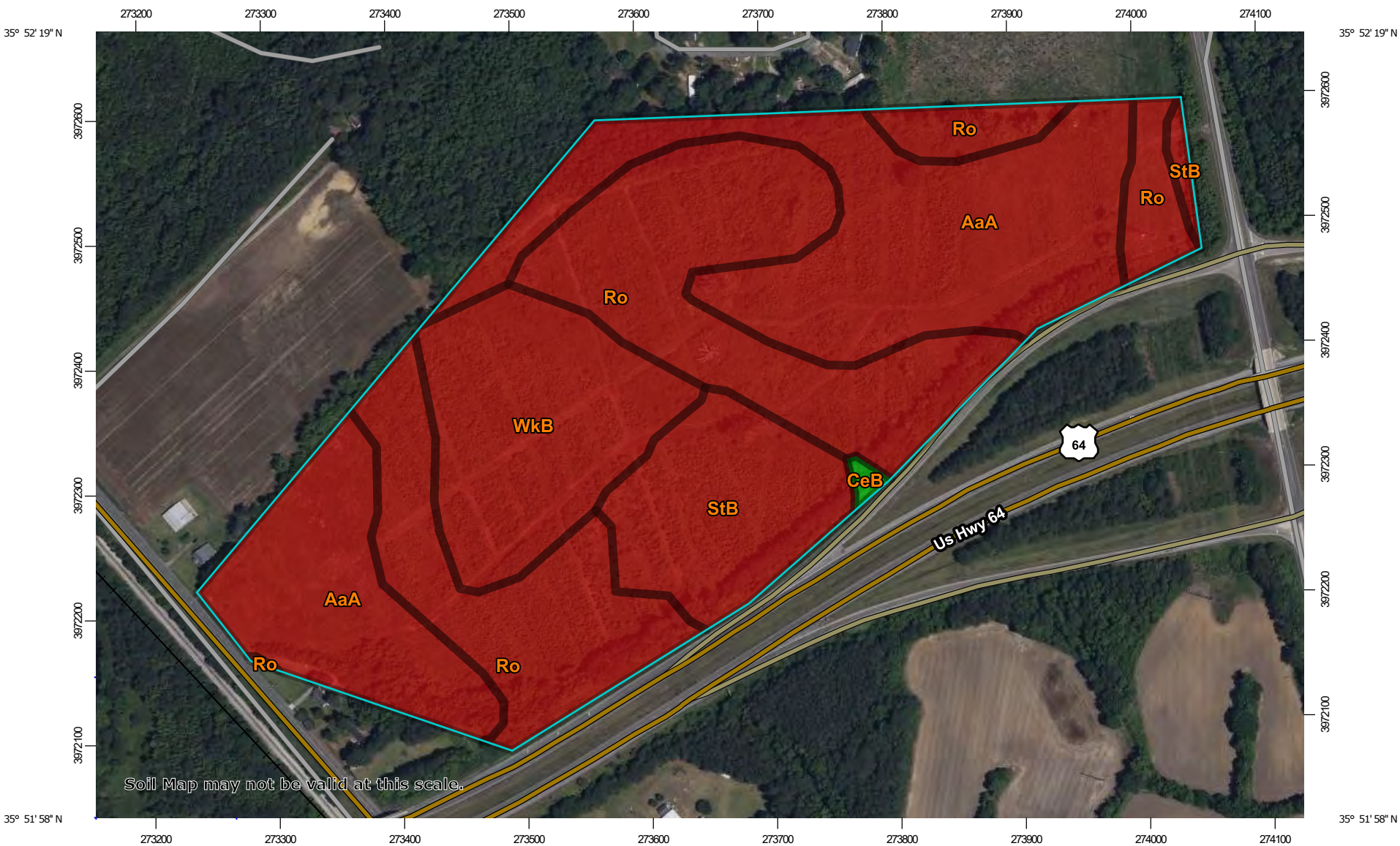
USDA NCRS Soil Survey Soil Suitability Classifications

Dwellings Without Basements—Edgecombe County, North Carolina



Map Scale: 1:4,440 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Lines

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

Very limited

Somewhat limited

Not limited

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Edgecombe County, North Carolina
Survey Area Data: Version 20, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 9, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Dwellings Without Basements

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AaA	Altavista fine sandy loam, 0 to 3 percent slopes	Very limited	Altavista (91%)	Flooding (1.00)	20.4	36.2%
				Depth to saturated zone (0.39)		
			Roanoke, undrained (5%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Tomotley, undrained (2%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Wehadkee, undrained (1%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Bibb, undrained (1%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
CeB	Conetoe loamy sand, 0 to 4 percent slopes	Not limited	Conetoe (90%)		0.2	0.3%
Ro	Roanoke loam	Very limited	Roanoke, undrained (85%)	Flooding (1.00)	20.9	37.0%
				Depth to saturated zone (1.00)		
			Roanoke, drained (15%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
StB	State loamy sand, 0 to 4 percent slopes	Very limited	State (75%)	Flooding (1.00)	6.4	11.4%
WkB	Wickham sandy loam, 0 to 4 percent slopes	Very limited	Wickham (90%)	Flooding (1.00)	8.5	15.0%
			Roanoke, undrained (5%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
Totals for Area of Interest					**56.4**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Very limited	56.2	99.7%
Not limited	0.2	0.3%
Totals for Area of Interest	**56.4**	**100.0%**

Description

ENG - Engineering

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to

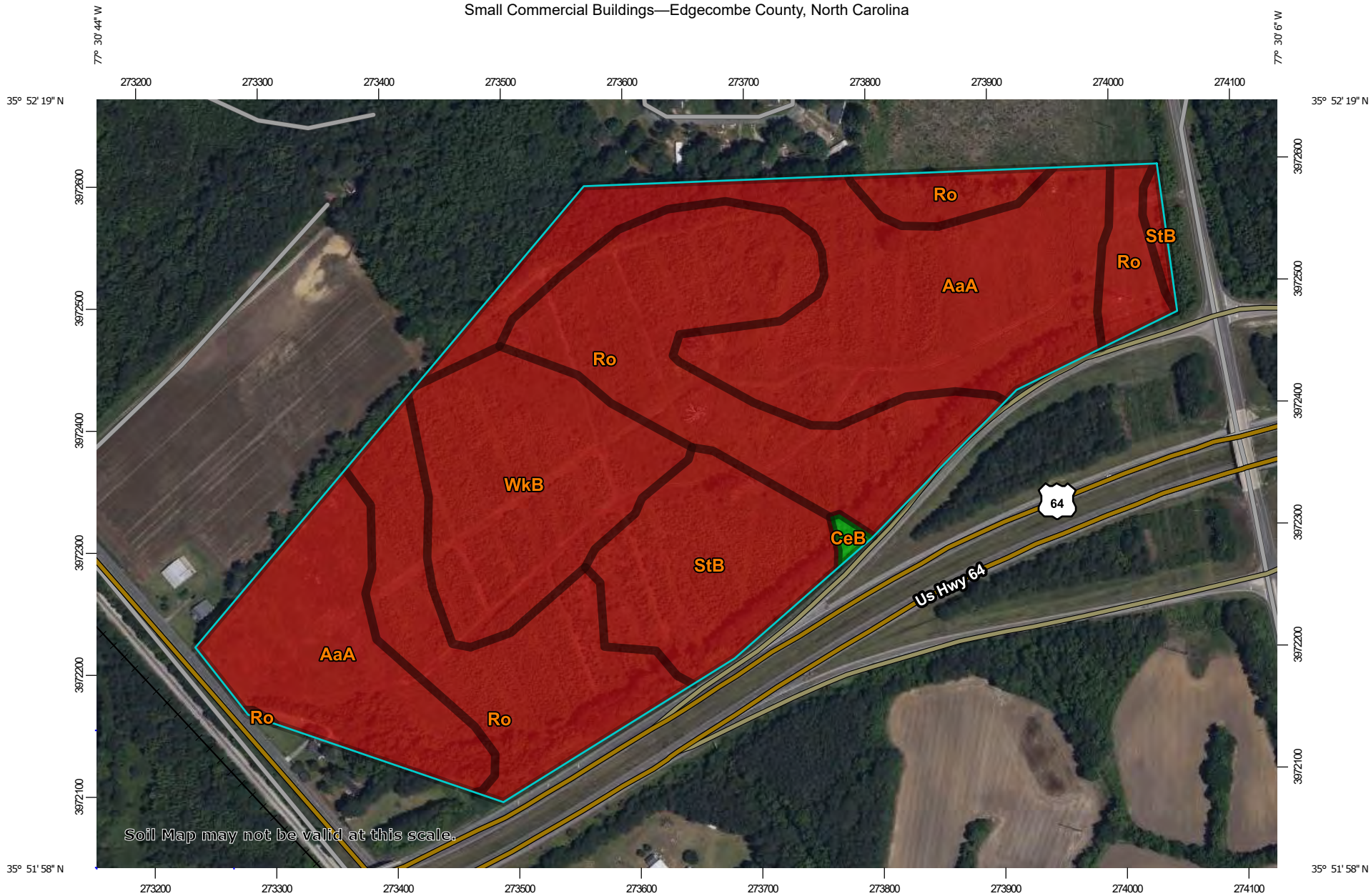
validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Map Scale: 1:4,440 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Lines

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

Very limited

Somewhat limited

Not limited

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Edgecombe County, North Carolina
Survey Area Data: Version 20, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 9, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Small Commercial Buildings

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AaA	Altavista fine sandy loam, 0 to 3 percent slopes	Very limited	Altavista (91%)	Flooding (1.00)	20.4	36.2%
				Depth to saturated zone (0.39)		
			Roanoke, undrained (5%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Tomotley, undrained (2%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Wehadkee, undrained (1%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
			Bibb, undrained (1%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
CeB	Conetoe loamy sand, 0 to 4 percent slopes	Not limited	Conetoe (90%)		0.2	0.3%
Ro	Roanoke loam	Very limited	Roanoke, undrained (85%)	Flooding (1.00)	20.9	37.0%
				Depth to saturated zone (1.00)		
			Roanoke, drained (15%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
StB	State loamy sand, 0 to 4 percent slopes	Very limited	State (75%)	Flooding (1.00)	6.4	11.4%
WkB	Wickham sandy loam, 0 to 4 percent slopes	Very limited	Wickham (90%)	Flooding (1.00)	8.5	15.0%
				Slope (0.00)		
			Roanoke, undrained (5%)	Flooding (1.00)		
				Depth to saturated zone (1.00)		
Totals for Area of Interest					**56.4**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Very limited	56.2	99.7%
Not limited	0.2	0.3%
Totals for Area of Interest	**56.4**	**100.0%**

Description

ENG - Engineering

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification of the soil). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

ATTACHMENT 20:

Educational and Cultural Facilities

Public Education Certification, NCORR and Edgecombe County Correspondence, and Google Earth Search Results

PUBLIC EDUCATION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

The proposed project is located in the Edgecombe County Public Schools school district(s):

☑ will NOT have an adverse impact on local schools *OR*

☐ will have an adverse impact on local schools. Explain: _____

Are any of the schools in this district considered High Risk or Poor Performing per State or federal performance standards? ☐ No. If yes, explain: Princeville: Low Performing, W. A. Pattillo: Low Performing, Tarboro High: Low Performing

The schools that will serve the proposed project are: Princeville Elementary, W. A. Pattillo Middle, Tarboro High School. Choice options: Martin Millennium Academy (K-8) Edgecombe Early College High School, Edge Academy of Health Sciences

Additional Comments/Concerns/Conditions: _____

12-19-23
Date

Andrew Bryan
(Officials Signature)

Andrew Bryan
(Officials Name – Print or Type)

Superintendent
(Official's Title)

_____
(Department Name)

Gievers, Andrea

From: Andrew Bryan <andrewbryan@ecps.us>
Sent: Tuesday, December 19, 2023 9:55 AM
To: Gievers, Andrea
Subject: [External] Princeville Certificate
Attachments: Public Education Certification - Princeville-12192023094657.pdf

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Please let me know if you need anything else.

Happy Holidays!
Andy

Gievers, Andrea

From: Gievers, Andrea
Sent: Tuesday, December 12, 2023 6:11 PM
To: AndrewBryan@ecps.us
Subject: FW: Princeville 53-Acre Site Redevelopment - School NEPA Request
Attachments: NCORR Princeville 53 Acre Public Education FORM.pdf

Hello:

This is the final request before I finalize the NEPA Environmental Assessment. Please send as soon as possible. Thanks, and let me know if you have any questions.

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Friday, December 8, 2023 9:32 AM
To: AndrewBryan@ecps.us
Subject: RE: Princeville 53-Acre Site Redevelopment - School NEPA Request

Hello:

I have attached the fillable form on the local schools available for the Princeville 53-Acre Site to fill out and return to me. Feel free to contact me if you have any questions. Thanks!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Monday, December 4, 2023 10:59 AM
To: 'AndrewBryan@ecps.us' <AndrewBryan@ecps.us>
Subject: FW: Princeville 53-Acre Site Redevelopment - School NEPA Request

Hello:

Just a reminder to complete and return to me the attached Certification form. Please feel free to contact me if you have any questions. Thank you!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov

(845) 682-1700

From: Gievers, Andrea
Sent: Wednesday, November 8, 2023 12:40 PM
To: AndrewBryan@ecps.us
Subject: Princeville 53-Acre Site Redevelopment - School NEPA Request

Hello Mr. Bryan:

Please find enclosed a short form on schools for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

PUBLIC EDUCATION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

The proposed project is located in the _____ school district(s):

☐ will NOT have an adverse impact on local schools *OR*

☐ will have an adverse impact on local schools. Explain: _____

_____

_____

Are any of the schools in this district considered High Risk or Poor Performing per State or federal performance standards? ☐ No. If yes, explain: _____

_____

The schools that will serve the proposed project are: _____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

November 1, 2023
Date

(Officials Signature)

(Officials Name – Print or Type)

(Official's Title)

(Department Name)

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 8, 2023

Mr. Andrew Bryan, Superintendent
Edgecombe County Public Schools
2311 North Main Street
Tarboro, NC 27886

Via email: AndrewBryan@ecps.us

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Bryan:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and

provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on schools in Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

PUBLIC EDUCATION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

The proposed project is located in the _____ school district(s):

☐ will NOT have an adverse impact on local schools *OR*

☐ will have an adverse impact on local schools. Explain: _____

_____

_____

Are any of the schools in this district considered High Risk or Poor Performing per State or federal performance standards? ☐ No. If yes, explain: _____

_____

The schools that will serve the proposed project are: _____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____ Date

_____ (Officials Signature)

_____ (Officials Name – Print or Type)

_____ (Official's Title)

_____ (Department Name)

A

Princeville Elementary School

306 Walston St, Princeville, NC 27886
(252) 823-4718 · princeville.ecps.us

B

Stocks Elementary School

400 W Hope Lodge St, Tarboro, NC 27886
(252) 823-2632 · stocks.ecps.us

C

Pattillo Middle School

501 East Ave, Tarboro, NC 27886
(252) 823-3812 · wapattillo.ecps.us

Martin Millennium Academy

D

400 E Johnston St, Tarboro, NC 27886
(252) 641-5710 · mmatrailblazers.com

E

Princeville Montessori School

306 Walston St, Princeville, NC 27886
(252) 823-4718 · princeville.ecps.us

F

North East Carolina Prep School

274 Husky Trail, Tarboro, NC 27886
(252) 641-0464 · necprepschool.com

G

Edgecombe County Public Schools Central Office

2311 N Main St, Tarboro, NC 27886
(252) 641-2600 · ecps.us

H

A Step Ahead After School Care

1 Pender Sq, Tarboro, NC 27886
(252) 641-1064

I

Stoney Point Elementary School

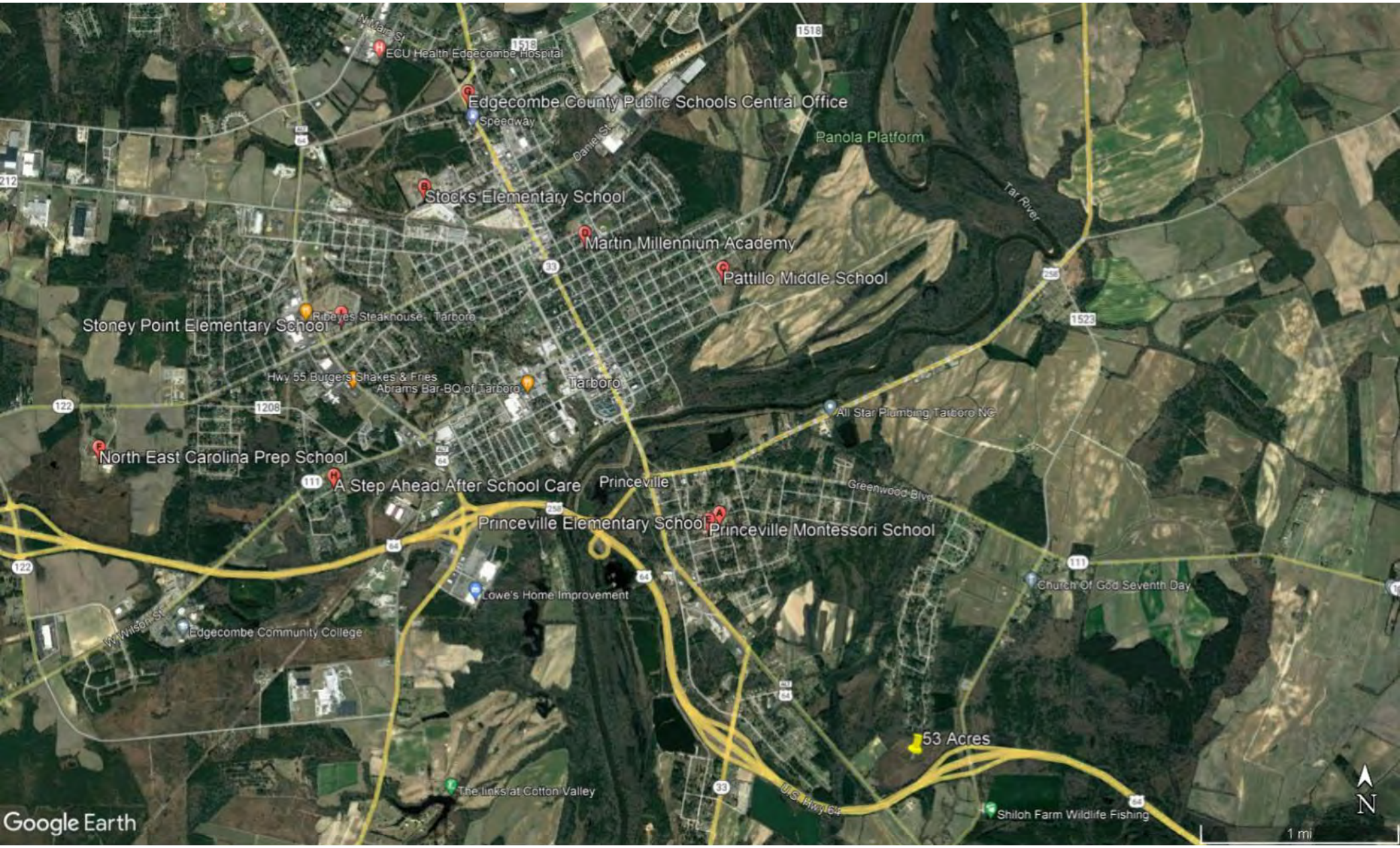
1400 W Howard Ave, Tarboro, NC 27886

J

Coker-Wimberly Elementary School

1619 NC-97, Battleboro, NC 27809
(252) 823-4446 · coker-wimberly.ecps.us

1


ECU Health Edgecombe Hospital
Edgecombe County Public Schools Central Office
Speedway
Panola Platform
Tar River
Stocks Elementary School
Martin Millennium Academy
Pattillo Middle School
Stoney Point Elementary School
Ribeyes Steakhouse - Tarboro
Hwy 55 Burgers Shakes & Fries
Abrams Bar-B-Q of Tarboro
Tarboro
All Star Plumbing Tarboro NC
North East Carolina Prep School
A Step Ahead After School Care
Princeville
Greenwood Blvd
Princeville Elementary School
Princeville Montessori School
Lowe's Home Improvement
Church Of God Seventh Day
Edgecombe Community College
W Wilson St
53 Acres
The links at Cotton Valley
U.S. Hwy 64
Shiloh Farm Wildlife Fishing
Google Earth
1 mi
N

A

Princeville Museum Welcome Center

310 Mutual Blvd, Princeville, NC 27886
(252) 823-8500 · princevillemuseum.com

B

Hobson Pittman Memorial Gallery

130 Bridgers St, Tarboro, NC 27886
(252) 823-4159

C

Edgecombe County Veteran's Military Museum

106 W Church St, Tarboro, NC 27886
(252) 823-0891 · edgecombevet.com

D

Old Sparta Historical Preservation Society

23 Lance Ln, Macclesfield, NC 27852
(252) 903-8530

E

The Imperial Centre for the Arts & Sciences

Interactive science exhibits for kids
270 Gay St, Rocky Mount, NC 27804
(252) 972-1266 · imperialcentre.org

F

Greenville Museum of Art

802 Evans St, Greenville, NC 27834
(252) 758-1946 · gmoa.org

G Imagination Station Science & History Museum

Interactive programs & exotic animals
224 Nash St, Wilson, NC 27893
(252) 291-5113 · scienceandhistory.org

H May Museum & Park

3802 S Main St, Farmville, NC 27828
(252) 753-6725 · facebook.com

I Freeman Round House

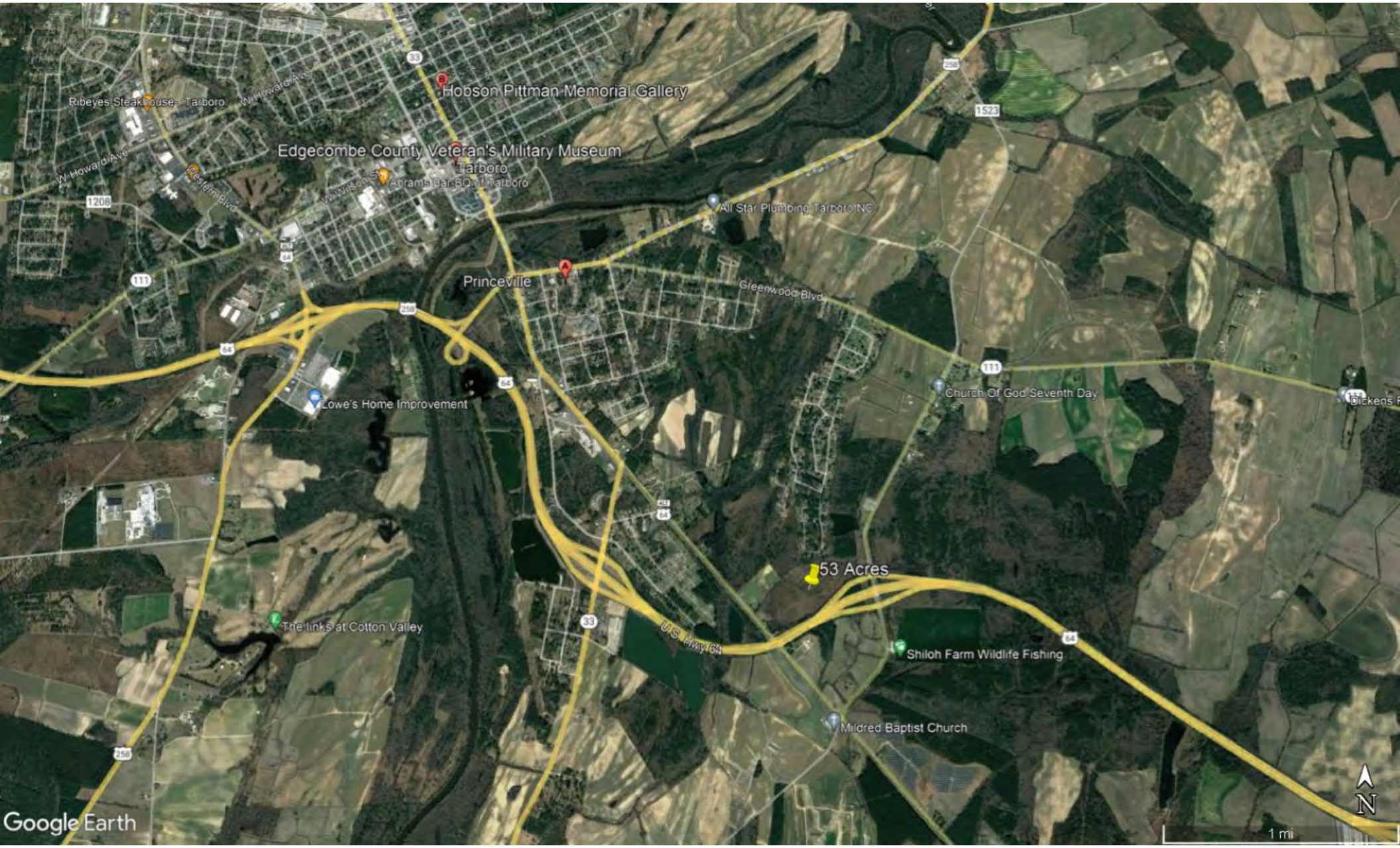
Museum of local African-American history
1202 Hines St SE, Wilson, NC 27893
(252) 296-3056 · theroundhousemuseum.com

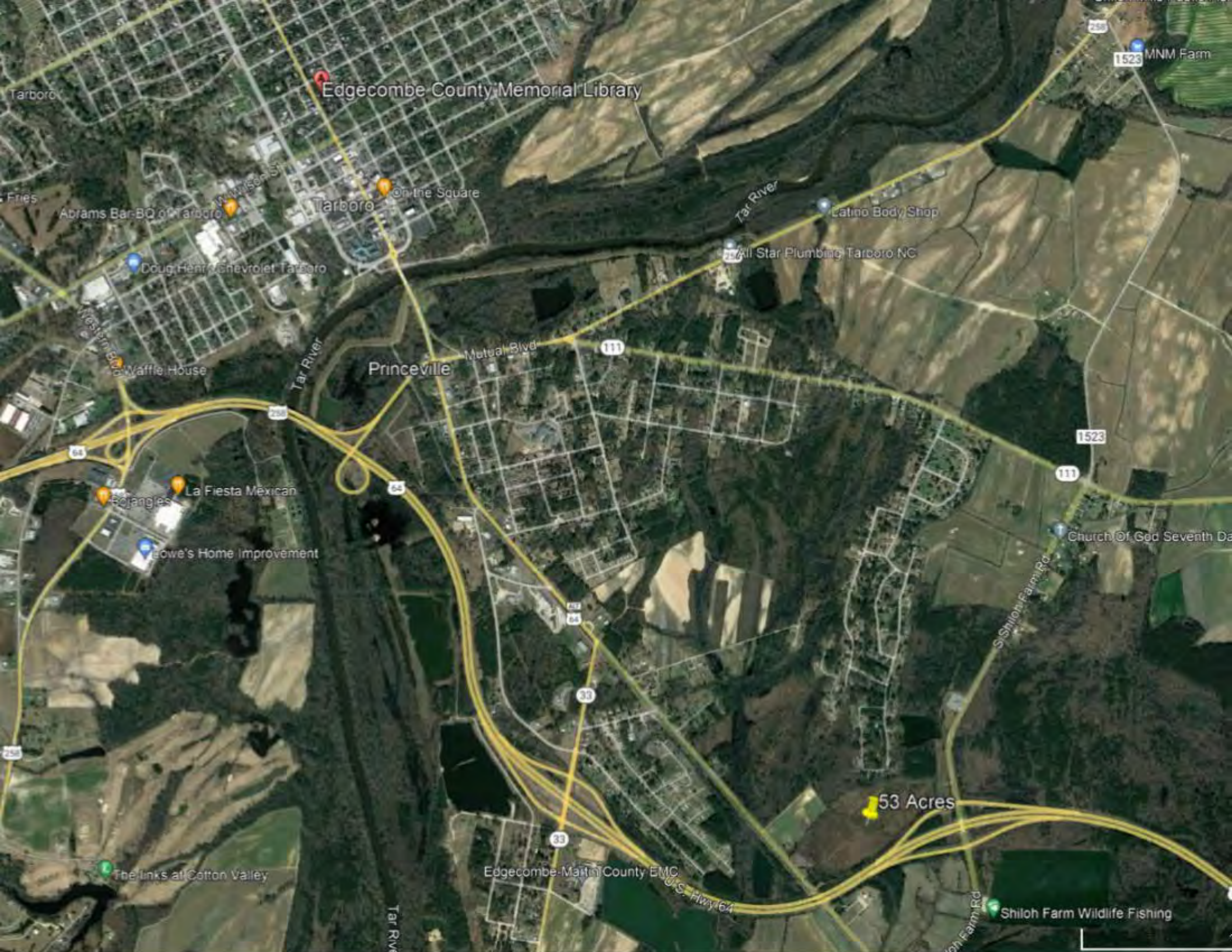
J

Vollis Simpson Whirligig Park Museum & Gift Shop

230 Goldsboro St S, Wilson, NC 27893
(252) 674-1352 · wilsonwhirligigpark.org

1


Hobson Pittman Memorial Gallery
Ribeyes Steakhouse - Tarboro
W Howard Ave
Edgecombe County Veteran's Military Museum
Tarboro
Abrams Bar-B-Q of Tarboro
Western Blvd
All Star Plumbing Tarboro NC
Princeville
Greenwood Blvd
Lowe's Home Improvement
Church Of God Seventh Day
53 Acres
The links at Cotton Valley
U.S. Hwy 64
Shiloh Farm Wildlife Fishing
Mildred Baptist Church
Google Earth
1 mi
N

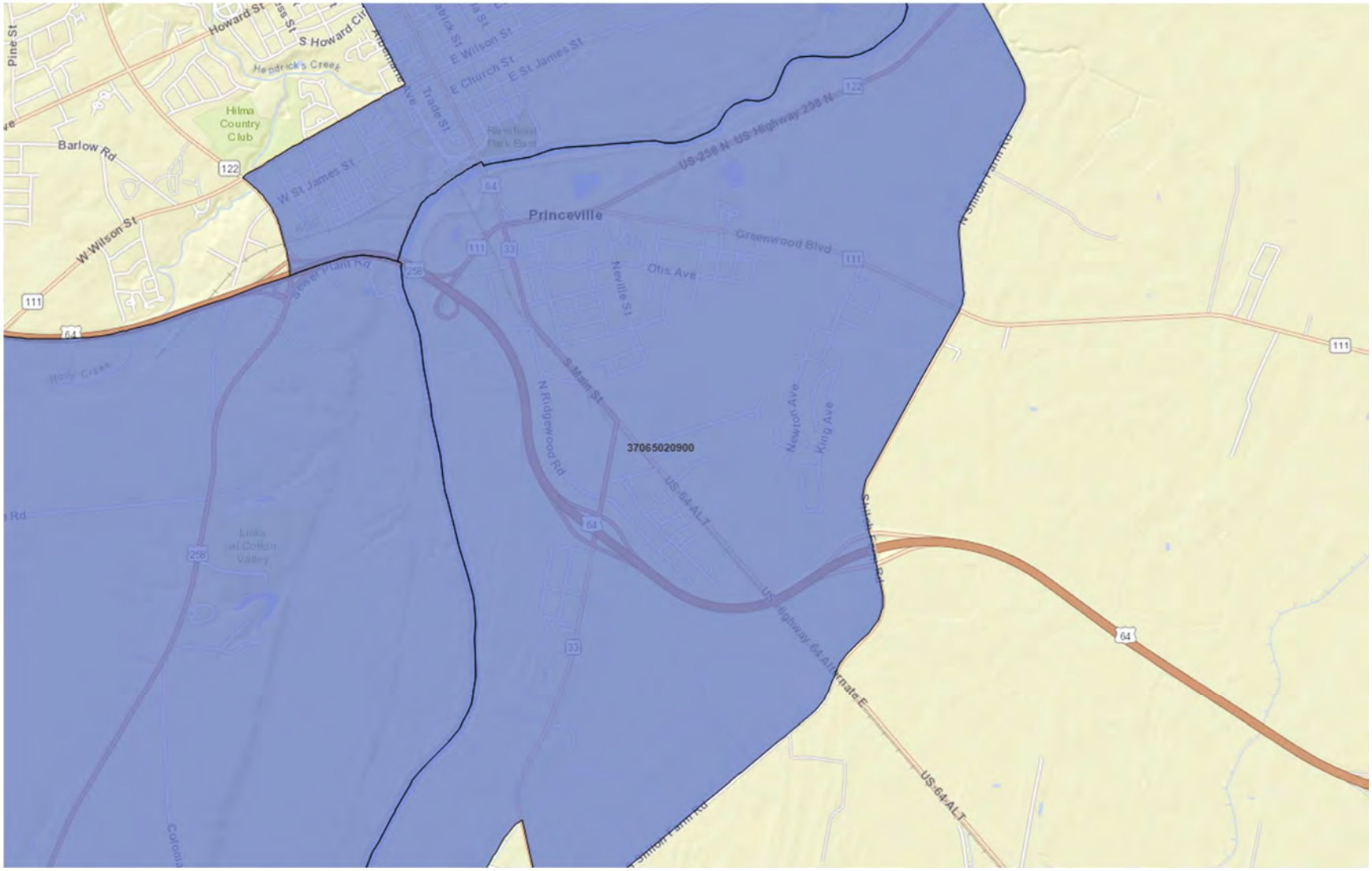

Edgecombe County Memorial Library
Tarboro
Fries
Abrams Bar-BQ of Tarboro
Tarboro
On the Square
Tar River
Latino Body Shop
All Star Plumbing Tarboro NC
MNM Farm
1523
Doug Henry Chevrolet Tarboro
Waffle House
Tar River
Princeville
Mutual Blvd
111
258
64
La Fiesta Mexican
Lowe's Home Improvement
1523
111
Church Of God Seventh Da
S Shiloh Farm Rd
33
53 Acres
The Links at Cotton Valley
Edgecombe-Martin County EMC
U.S. Hwy 64
Tar River
Shiloh Farm Wildlife Fishing

ATTACHMENT 21:

Commercial Facilities

Princeville U.S. Dept. of Treasury Opportunity Zone Map, Census Tract 209 Information Page, Chamber of Commerce Webpage, and Google Earth Business Search Results

Princeville 53-Acre Site Redevelopment – Opportunity Zone Map



Free Event - Alts Expo on Dec 13th Learn More

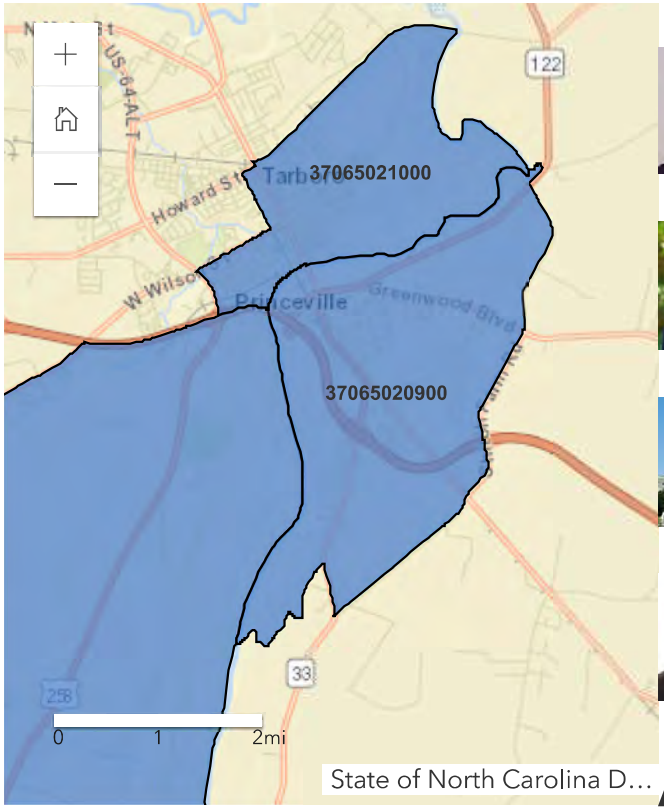
OpportunityDb BY WEALTHCHANNEL

Census Tract 209, Princeville, North Carolina

Census Tract 209 is a **Low-Income Community** Opportunity Zone located in **Princeville, North Carolina**.

This **6.7 square mile** census tract has a population of approximately **2,600** and is one of 5 Opportunity Zones in **Edgecombe County**.

The adjacent map shows the location of this Opportunity Zone in North Carolina.



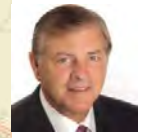
Recent Posts

OZ NewsHour: Caliber's Pickleball Play, & The OZ Holiday Gift Guide

OZ Insiders Launch Party

Announcing OZ Insiders, A Community For Opportunity Zone Professionals

New House Bill Would Extend and Improve Opportunity Zones


Opportunity Zone Investors Roundtable, An OZ Pitch Day Panel

Archives

- Opportunity Zone Demographics
- North Carolina OZ Funds
- List of Similar Opportunity Zones

View larger map

Census Tract 209 Demographics

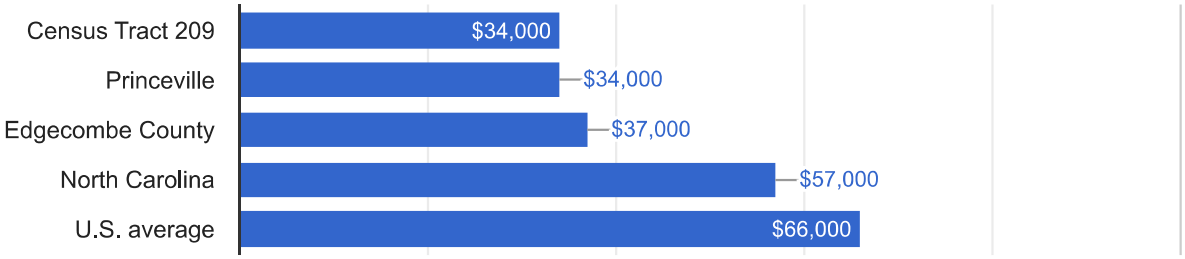
The charts below illustrate how this Opportunity Zone compares to the broader city, county, and state on various socioeconomic indicators:

Advertisement

Median Household Income

$34K

This Opportunity Zone has a **median household income** of approximately **$34,000**, which is **40% lower** than the median household income for the state of North Carolina of **$57,000**.



Poverty Rate

29%

The percentage of households below the poverty line in this Opportunity Zone is **29%**, which is **15% higher** than the rate

Select Month

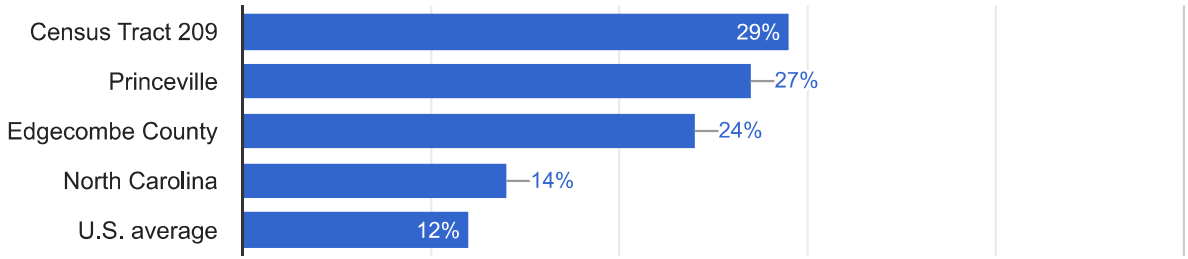
Categories

Select Category

Featured Webinar

Self Storage OZ Deals

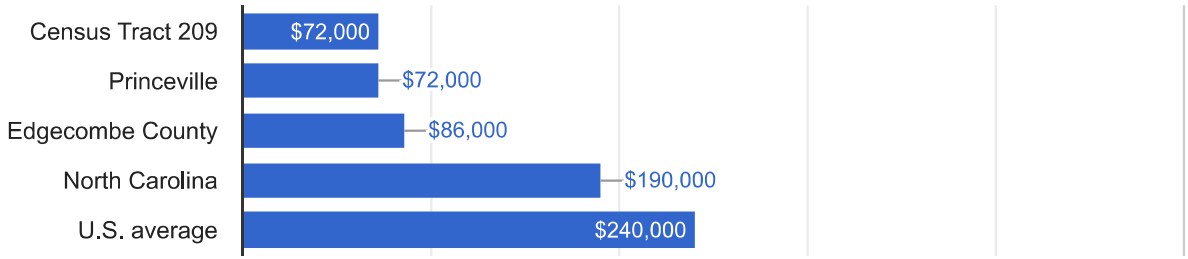
for the state of North Carolina of **14%**.



Median Home Value

$72K

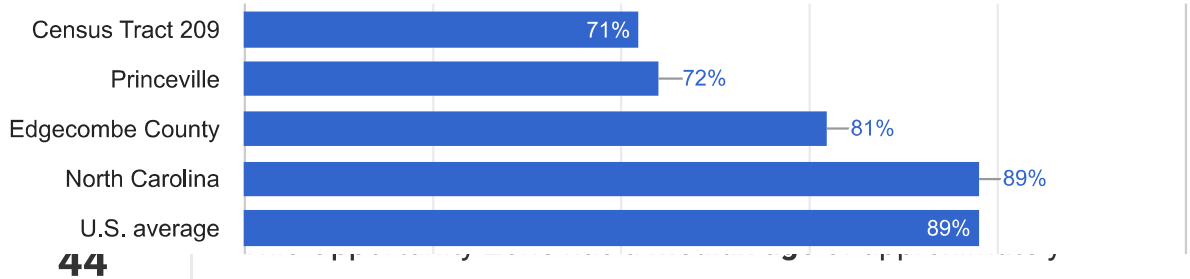
This Opportunity Zone has a **median home value** of approximately **$72,000**, which is **62% lower** than the median home value for the state of North Carolina of **$190,000**.



Education

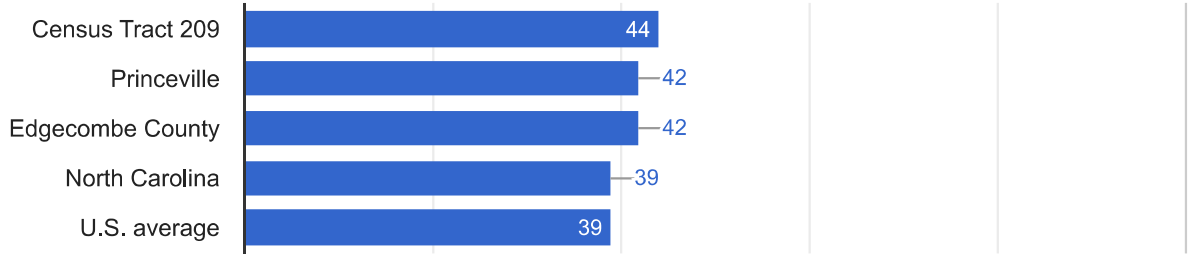
71%

This Opportunity Zone has a **percentage of population with high school diploma** of approximately **71%**, which is **18% lower** than the rate for the state of North Carolina of **89%**.



44

44, which is **13% higher** than the median age for the state of North Carolina of **39**.



North Carolina OZ Funds

There are **23 QOZ Funds** in the OpportunityDb database with an investment objective that specifically identify **North Carolina** as a target market. Additional OZ funds may also invest in North Carolina; see a complete list of Opportunity Zone Funds here.

Fund Name	Asset Classes	Property Types	Fund Size
Atlas AREP QOF 4 LLC Premium Listing	Real Estate	Multi-Family Housing	$100M
Origin Investments QOZ Fund II	Real Estate	Commercial, Residential	$200M

Fund Name	Asset Classes	Property Types	Fund Size
Premium Listing			
Pinnacle Partners Opportunity Zone Fund VIII Premium Listing	Real Estate	Multi-Family Housing	$150M
Allagash Opportunity Zone CRE Fund I	Real Estate	Affordable Housing, Residential, Workforce Housing	$300M
Blueprint Southeast OZ Fund	Real Estate	Mixed-Use, Multi-Family Housing, Office	$25M
Cabretta OZ HPP, LLC	Real Estate	Hotel	$10M
Carolina Opportunity Fund	Real Estate		
Community Outcome Fund	Business, Real Estate	Commercial, Infrastructure, Mixed-Use, Residential	$500M
CSRA Opportunity Zone Fund VI	Real Estate	Mixed-Use, Multi-Family Housing	$48M
Decennial Opportunity Zone	Real Estate	Commercial, Energy Development, Hotel,	$500M

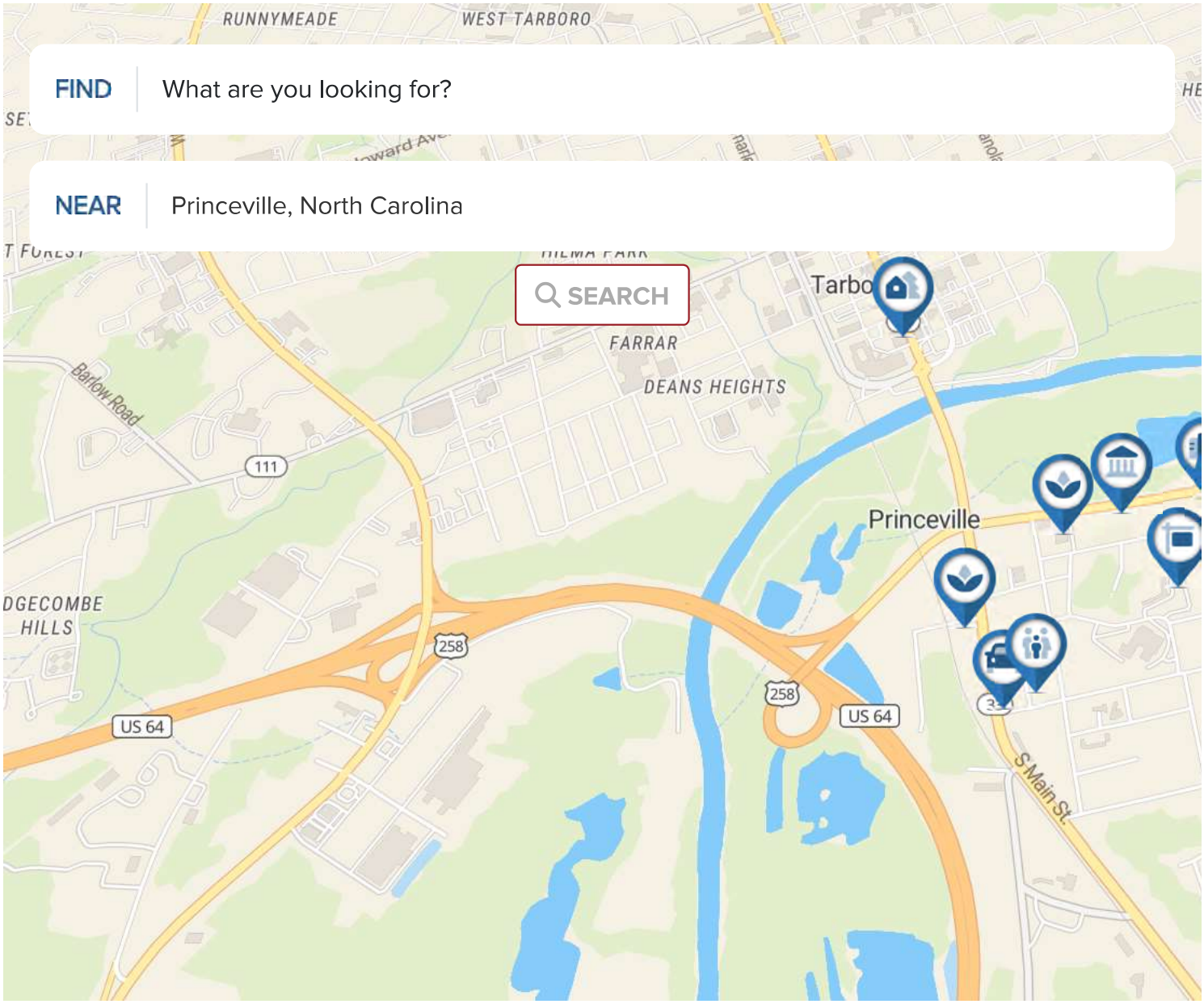
Fund Name	Asset Classes	Property Types	Fund Size
Fund I LLC		Industrial, Mixed-Use, Multi-Family Housing, Office, Residential	
Driftwood Qualified Opportunity Fund I, LLC	Real Estate	Hotel	$26M
IMPACT Carolina QOZ Fund	Business		$20M
Javelin 19 Investments	Business, Real Estate	Mixed-Use, Residential, Student Housing	
PrimeCore OpZone Fund III, LP	Real Estate	Commercial, Mixed-Use, Multi-Family Housing, Office, Residential	$20M
Promised Land Opportunity Zone Fund	Real Estate	Farmland	
Revolution Wealth Opportunity Zone Fund	Business, Real Estate	Energy Development, Infrastructure, Mixed-Use	$6B
Strategic Rivermont OZ Fund, LLC	Real Estate	Commercial, Energy Development, Hotel, Mixed-	$100M

Fund Name	Asset Classes	Property Types	Fund Size
		Use, Residential, Stadiums and Arenas, Student Housing	
Woodforest CEI-Boulos Opportunity Fund	Real Estate	Workforce Housing	$22M

Similar Opportunity Zones

- See all OZs in North Carolina
- See all OZs in Edgecombe County
- See all OZs in Princeville

CHAMBEROFCOMMERCE.COM
Your Business... Online



PRINCEVILLE CHAMBER OF COMMERCE

Princeville is considered a Small Town with a population of 1,966 and 31 businesses. 0 in 2018 were added to the Princeville Chamber of Commerce business directory which was less than 2017 which had 0. The economy of Princeville employs 1,060 people and has an unemployment rate of 14%. Some of the largest industries in Princeville are Auto Repair (4),Various Denomination & Non-Denominati Churches (2), and Transmissions Auto Repairing (2).

BUSINESSES IN **PRINCEVILLE, NC**

Featured Businesses

Brown's Legacy Group, LLC

Business To Business Service

301 Otis Ave
Princeville, North Carolina 27886

(919) 803-9783

(0 Reviews)

St Luke Church of Christ

Church Of Christ

101 Neville St
Princeville, NC 27886

(252) 563-6545

(11 Reviews)

J E Simmons Furniture Co

Mattress Store

208 S Main St
Princeville, NC 27886

(252) 823-3230

(1 Review)

Gateway To Heaven Church Inc

Church

311 2nd St
Princeville, NC 27886

(252) 641-0946

(7 Reviews)

Princeville Volunteer Fire

Fire Station

312 Mutual Blvd
Princeville, NC 27886

(252) 823-8115

(1 Review)

Hinton's Body Shop

Auto Body Shop

328 Neville St
Princeville, NC 27886

(252) 907-3384

(2 Reviews)

Macedonia Baptist Church

Baptist Church

315 Beasley St
Princeville, NC 27886

(252) 641-4754

(4 Reviews)

Macclesfield Volunteer Fire Dept

Fire Station

104 3rd St
Princeville, NC 27886

(252) 827-5344

(5 Reviews)

Dollar General

Dollar Store, Beauty Supply Store, Candy Store

306 Mutual Blvd
Princeville, NC 27886

(252) 563-2633

(143 Reviews)

Positive Generation In Christ

Church

934 Greenwood Blvd
Princeville, NC 27886

(252) 824-7350

(1 Review)

BROWSE CATEGORIES

Shopping (6)

Government (4)

Family & Community (4)

Automotive & Vehicles (3)

A

7 To 11 Mini Mart

1706 W Howard Ave, Tarboro, NC 27886
(252) 823-4884 · m.facebook.com

B

E P Mart

100 Market Centre Dr, Tarboro, NC 27886
(252) 824-9960

C

Mc Eachin Convenience Store

243 NC-33, Tarboro, NC 27886
(252) 641-0333

Bridgers Food Store

D

228 S Main St, Tarboro, NC 27886
(252) 563-6524

E

Speedway

Gas station with snacks & more
111 N Main St, Tarboro, NC 27886
(252) 823-3972 · speedway.com

F

Murphy Express

100 River Oaks Dr, Tarboro, NC 27886
(252) 641-1052 · murphyusa.com

G

Sunoco Gas Station

2112 N Main St, Tarboro, NC 27886
(252) 823-5955 · sunoco.com

H

Dollar General

Wide array of items at discount prices
620 Western Blvd, Tarboro, NC 27886
(252) 563-2330 · stores.dollargeneral.com

I

Dollar General

Wide array of items at discount prices
306 Mutual Blvd, Princeville, NC 27886
(252) 563-2633 · stores.dollargeneral.com

J

WMB Quick Shop

3924 N Main St, Tarboro, NC 27886
(252) 823-2223

1

A

Shell

701 Western Blvd, Tarboro, NC 27886
(252) 563-3248 · find.shell.com

B

Sunoco Gas Station

2112 N Main St, Tarboro, NC 27886
(252) 823-5955 · sunoco.com

C

Exxon

100 Market Centre Dr, Tarboro, NC 27886
(252) 824-9960 · exxon.com

Speedway

D

Gas station with snacks & more
2256 N Main St, Tarboro, NC 27886
(252) 823-0553 · speedway.com

E

Raceway

215 Western Blvd, Tarboro, NC 27886
(252) 823-0689 · racewaystores.com

F

Valero

Pit stop for snacks, coffee & more
1202 Western Blvd, Tarboro, NC 27886
(252) 586-3301 · valero.com

G

Murphy Express

100 River Oaks Dr, Tarboro, NC 27886

(252) 641-1052 · murphyusa.com

H

Speedway

Gas station with snacks & more
111 N Main St, Tarboro, NC 27886
(252) 823-3972 · speedway.com

I

E P Mart #18

701 Western Blvd, Tarboro, NC 27886

J

E P Mart

100 Market Centre Dr, Tarboro, NC 27886
(252) 824-9960

1

A

Food Lion

1110 Western Blvd, Tarboro, NC 27886
(252) 823-7270 · stores.foodlion.com

B

Food Lion

2213 St Andrew St, Tarboro, NC 27886
(252) 823-0939 · stores.foodlion.com

C

Carlie C's IGA

2030 N Main St, Tarboro, NC 27886
(252) 823-2466 · carliecs.com

Brown's Grocery

D

1013 Bradley Ave, Tarboro, NC 27886
(252) 823-4067

E

Los primos meat market

1406 Western Blvd, Tarboro, NC 27886
(252) 452-4963

F

Walmart Supercenter

110 River Oaks Dr, Tarboro, NC 27886
(252) 824-8170 · walmart.com

G

Conetoe Discount Corner

101 N Canal St, Conetoe, NC 27819
(252) 641-0363

H

Lewis Grocery

6199 McKendree Church Rd, Tarboro, NC 27886
(252) 823-3066 · lewis-grocery.poi.place

I

Batts Grocery

Howard Ave Exd, Tarboro, NC 27886
(252) 823-3143

J

Family Dollar

Bargain retailer for household goods
110 E Hope Lodge St, Tarboro, NC 27886
(252) 774-6009 · familydollar.com

1

ATTACHMENT 22:

Health Care and Social Services

Health Services and Social Services Certifications, NCORR and Edgecombe County Correspondence, and Google Maps Health Care and Social Services Search Results

Health Services

HEALTH SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Health Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project.

OR

■ NOT available for the proposed project and/or ■ will be adversely affected by the proposed project. Explain: This 53-acre site has been evaluated by Edgecombe County Environmental Health and was determined to be unsuitable for installing septic systems. If this proposed project is approved to move forward, it is our recommendation that all dwellings be connected to public water and sewer.

Health Service providers/organizations that might serve the proposed project area include: Edgecombe County Health Department

Additional Comments/Concerns/Conditions: As an alternative, if the project manager would not like to connect to public water and sewer, then we recommend that an Engineer be hired to design a special sewer system that can accomodate the entire proposed project.

11/20/23 — Date

Michelle B. Etheridge — (Officials Signature)

Michelle B. Etheridge — (Officials Name – Print or Type)

Health Director — (Official's Title)

Edgecombe Co. Health Dept. — (Department Name)

North Carolina Department of Public Safety

Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 7, 2023

Ms. Michelle Etheridge, Director
Edgecombe County Health Department
122 East St. James Street
Tarboro, NC 27886

Via email: MichelleEtheridge@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Ms. Etheridge:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and

provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on health care services provided by Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Gievers, Andrea

From: Michelle Etheridge <michelleetheridge@edgecombeco.com>
Sent: Monday, November 20, 2023 1:05 PM
To: Gievers, Andrea
Cc: Hudson, Melanie; Evans, Eric T; Michael Peters
Subject: [External] RE: Princeville 53-Acre Site Redevelopment - Health Services Request
Attachments: NCORR_HlthServCert_Pville53-AcreSite_11-2023.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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Good afternoon, Ms. Gievers,
Attached is the Health Services Certification for the Princeville 53-Acre Site Redevelopment project.
Please let me know if you have any questions.
Thank you,
Michelle

Michelle B. Etheridge, MAEd.
Health Director

EDGECOMBE COUNTY
PUBLIC HEALTH

Edgecombe County Health Department
122 East St. James Street
P.O. Box 100
Tarboro, North Carolina 27886
252-641-7531 – Office #
252-641-7565 – Fax

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From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, November 07, 2023 4:44 PM
To: Michelle Etheridge <michelleetheridge@edgecombeco.com>
Subject: Princeville 53-Acre Site Redevelopment - Health Services Request

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Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

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Gievers, Andrea

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 5:25 PM
To: Etheridge, Michelle
Subject: RE: Princeville 53-Acre Site Redevelopment - Health Services Request
Attachments: NCORR Princeville 53 Acre Site Health Services.pdf

Sorry, I have included the aerial map and concept plan for the Princeville 53-Acre Site Redevelopment project for your reference. Thanks for your help!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 4:44 PM
To: Etheridge, Michelle
Subject: Princeville 53-Acre Site Redevelopment - Health Services Request

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Andrea

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Environmental SME
Community Development
NC Office of Recovery and Resiliency
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North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
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November 7, 2023

Ms. Michelle Etheridge, Director
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122 East St. James Street
Tarboro, NC 27886

Via email: MichelleEtheridge@edgecombeco.com

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If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

HEALTH SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Health Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Health Service providers/organizations that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

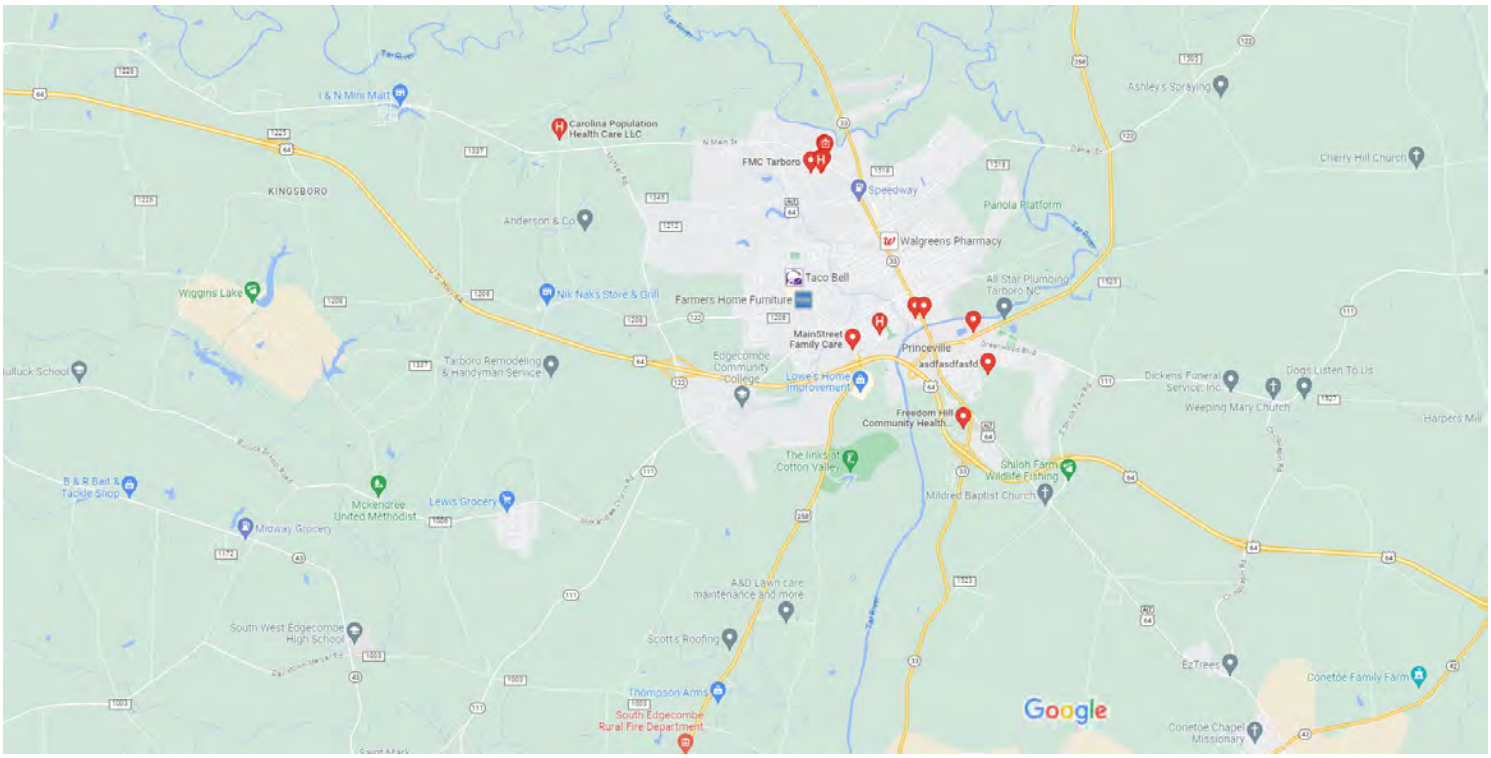
_____

(Official's Title)

_____

(Department Name)

Google Maps hospitals Princeville NC



Rating | Hours | All filters

asdfasdfasfd
3.0 (2)
Medical clinic · 324 2nd St
Directions

ECU Health Edgecombe Hospital
2.6 (66)
Hospital · 111 Hospital Dr
Open 24 hours · (252) 641-7700
Website Directions

"Very appreciative to the ER, ICU, and general hospital staff."

Carolina Population Health Care LLC
No reviews
Medical Center · 207 Barrington Dr
Open · Closes 5 PM · (252) 883-7416
Website Directions

ECU Health Edgecombe Hospital Emergency Department
1.6 (7)
Emergency room · 111 Hospital Dr
Open 24 hours · (252) 641-7700
Website Directions

Freedom Hill Community Health Center
4.2 (78)
Community health centre · 162 NC-33
Website Directions

Social Services

SOCIAL SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

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Adequate and appropriate Social Services for the proposed project are:

☒ available for the proposed project and ☒ will NOT be adversely affected by the proposed project.

OR

☐ NOT available for the proposed project or ☐ will be adversely affected by the proposed project. Explain: _____

Social Services organizations that might serve the proposed project area include: Edgecombe County Department of Social Services.

Additional Comments/Concerns/Conditions: _____

12/4/2023
Date

Betty Battle
(Officials Signature)

Betty Battle
(Officials Name – Print or Type)

Director
(Official's Title)

Edgecombe Co. DSS
(Department Name)

Gievers, Andrea

From: Betty Battle <bettybattle@edgecombeco.com>
Sent: Monday, December 4, 2023 2:14 PM
To: Gievers, Andrea
Subject: [External] Re: Princeville 53-Acre Site Redevelopment -Social Services Request
Attachments: Certification Statement-Princeville -Acre Site Redevelopment.pdf

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon. See attached signed certification.

Best,

Betty Battle, MPA
Director
Edgecombe County Social Services
P. O. Box 370
Tarboro, NC 27886

Rocky Mount Office
301 S. Fairview Road
Rocky Mount, NC 27801

Tele: (252) 641-7882
Fax: (252) 641-5816
bettybattle@edgecombeco.com

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From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Monday, December 4, 2023 11:02 AM
To: Betty Battle <bettybattle@edgecombeco.com>

Cc: Latisha Mills <latishamills@edgecombeco.com>
Subject: FW: Princeville 53-Acre Site Redevelopment -Social Services Request

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Please exercise discretion when requesting to release suspicious attachments.

Hello:

Just a reminder to complete and return to me the attached Certification form. Please feel free to contact me if you have any questions. Thank you!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 5:27 PM
To: Battle, Betty
Cc: latishamills@edgecombeco.com
Subject: RE: Princeville 53-Acre Site Redevelopment -Social Services Request

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Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 4:35 PM
To: Battle, Betty
Cc: latishamills@edgecombeco.com
Subject: Princeville 53-Acre Site Redevelopment -Social Services Request

Hello Ms. Battle:

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Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
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North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
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Laura H. Hogshead, Director

November 7, 2023

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Edgecombe County Social Services
122 E. St. James Street
Tarboro, NC 27886

Via email: BettyBattle@edgecombeco.com
cc: latishamills@edgecombeco.com

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NCORR Environmental Subject Matter Expert

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October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
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B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

SOCIAL SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Social Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project.

OR

☐ NOT available for the proposed project or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Social Services organizations that might serve the proposed project area include: _____

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

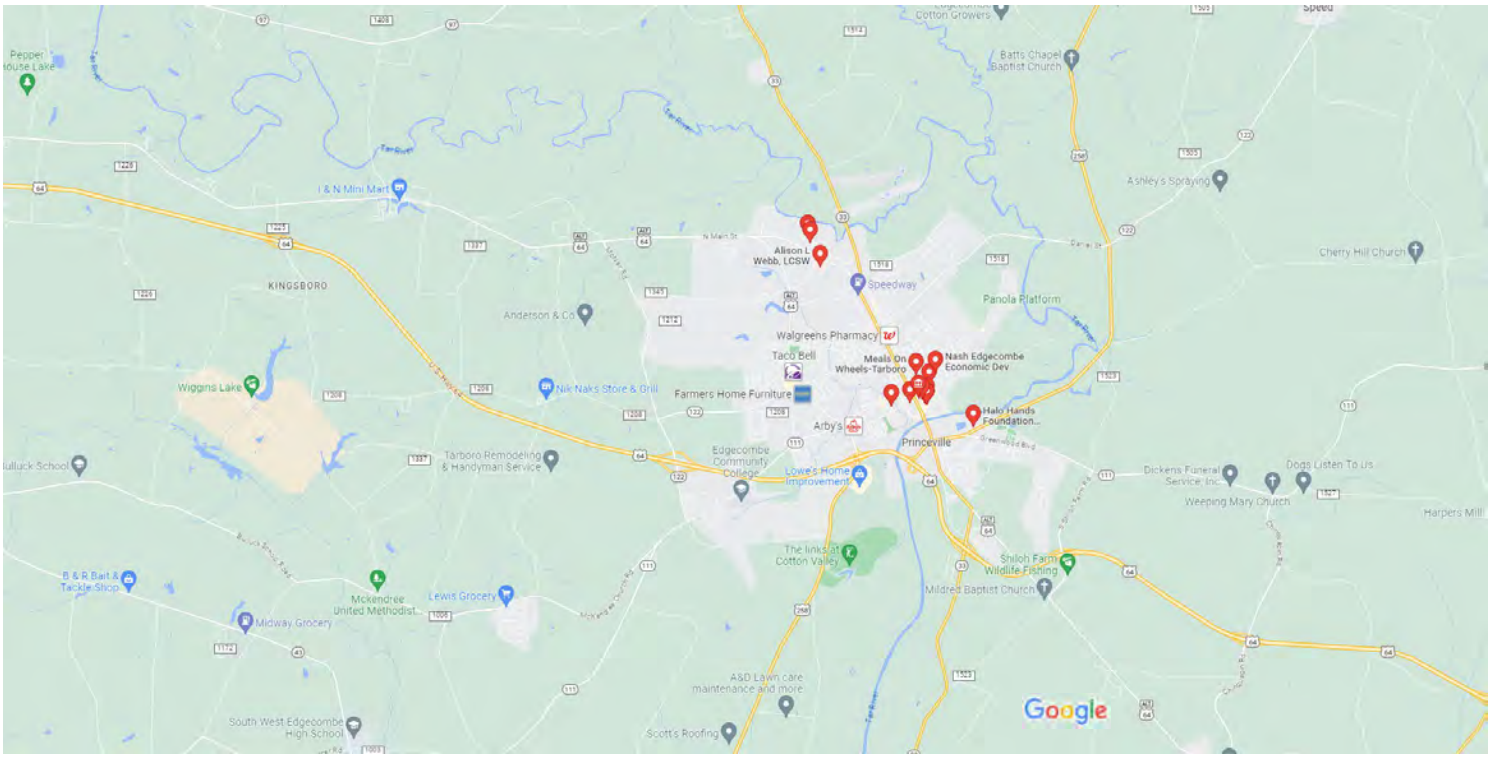
_____

(Official's Title)

_____

(Department Name)

Google Maps social services near Princeville, NC



Rating | Hours | All filters

Edgecombe County Department of Social Services
1.6 (12)
Government office · 122 E St James St
Open now · (252) 641-7611
Website Directions

Edgecombe County Social Services
2.9 (14)
Social services organization · 3003 N Main St
Open · Closes 5 PM · (252) 641-7611
Website Directions

Edgecombe County Child Support
1.8 (6)
Social services organization · 301 St Andrew St
Open · Closes 5 PM · (252) 641-7955
Website Directions

My Sister's House
No reviews
Women's shelter · 201 E Pitt St
(252) 641-6404
Website Directions

Nash Edgecombe Economic Dev
3.7 (3)
Social services organization · 607 E Wilson St
(252) 823-3269
Directions

ATTACHMENT 23:

Solid Waste Disposal/ Recycling

Solid Waste Removal Certification, NCORR and Edgecombe County Correspondence, Town of Princeville FAQs Webpage, and Edgecombe County Recycling Brochure

SOLID WASTE REMOVAL CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Solid waste removal for the proposed project site can be adequately handled by:

☐ Municipal/Public waste collector _____

OR

☒ Private waste collector _____

AND

☒ will NOT adversely affect landfill capacity

OR

☐ solid waste removal/disposal is limited ☐ due to unavailability of collectors or insufficient landfill capacity. Explain: _____

Additional Comments/Concerns/Conditions: Edgecombe County operates a permitted C+D Landfill AND Transfer Station. MSW/Solid Waste is transported to East Carolina Environmental/Republic Services in Bertie County. Therefore, Solid Waste removal will not affect our landfill capacity.

11-13-2023
Date

Gloria A. Moseley
(Officials Signature)

Gloria A. Moseley
(Officials Name – Print or Type)

Director
(Official's Title)

Edgecombe County Solid Waste
(Department Name)

Gievers, Andrea

From: Gloria Moseley <gloriamoseley@edgecombeco.com>
Sent: Monday, November 13, 2023 2:12 PM
To: Gievers, Andrea
Subject: [External] Re: Princeville 53-Acre Site Redevelopment - Solid Waste/Landfill Services Request
Attachments: Solid Waste Removal for Princeville.pdf

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon Ms. Gievers,
I have signed the requested document. I think this is great news for the Town of Princeville and Edgecombe County. Since it is a town, Edgecombe County does not collect from municipalities. However, there are several qualified waste collection compainies that will be able to accomodate this area in the future. The waste will be accepted at the Edgecombe County Transfer Station.

Sincerely,
Gloria Moseley
Director of Solid Waste
Edgecombe County
252-827-4253

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, November 7, 2023 5:24 PM
To: Gloria Moseley <GloriaMoseley@edgecombeco.com>
Subject: RE: Princeville 53-Acre Site Redevelopment - Solid Waste/Landfill Services Request

Your attachment(s) were cleaned by Check Point Sandblast Threat Extraction.
Click here to restore the original(s) or contact your system administrator.

You may be required to authenticate, in that case follow these instructions:
1. You will be directed to a page where you would be requested to specify your email address.
2. An email with verification code will be sent to you.
3. Copy the code and return to the attachment recovery page.
4. The email with original attachments will be released to your mailbox.

Please exercise discretion when requesting to release suspicious attachments.

Sorry, I have included the aerial map and concept plan for the Princeville 53-Acre Site Redevelopment project for your reference. Thanks for your help!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 5:00 PM
To: GloriaMoseley@edgecombeco.com
Subject: Princeville 53-Acre Site Redevelopment - Solid Waste/Landfill Services Request

Hello Ms. Moseley:

Please find enclosed a short form on solid waste/landfill services for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

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North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 7, 2023

Ms. Gloria Moseley, Director
Edgecombe County Solid Waste Management
2861 Colonial Rd.
Tarboro, NC 27886

Via email: GloriaMoseley@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Ms. Moseley:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and

provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on solid waste/landfill services provided by Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

SOLID WASTE REMOVAL CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Solid waste removal for the proposed project site can be adequately handled by:

☐ Municipal/Public waste collector _____

OR

☐ Private waste collector _____

AND

☐ will NOT adversely affect landfill capacity

OR

☐ solid waste removal/disposal is limited ☐ due to unavailability of collectors or insufficient landfill capacity. Explain: _____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

Frequently Asked Questions

Here are Princeville's most frequently asked questions.

How do I get my electricity turned on?

Who picks up my yard waste garbage?

Yard waste and garbage is collected by Waste Industries.

Do I need a business license?

Do I need a building permit?

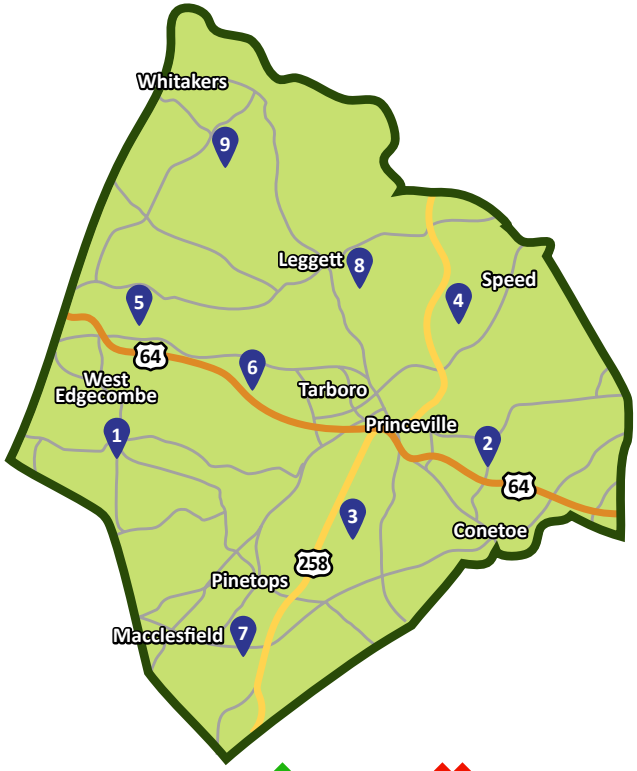
How do I get my water turned on?

EDGECOMBE COUNTY'S DROP-OFF SITES

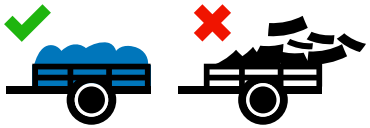
Designed for residents of Edgecombe County, this brochure is an easy reference guide on the county's waste and recycling services. Learning how to properly prepare your recyclables and dispose of other special wastes will ensure efficient drop-off site collection!

Edgecombe County operates and maintains staffed convenience drop-off sites listed on the back of this brochure. ***These convenience drop-off sites are for rural Edgecombe County citizens only.*** For more information, visit our website at: Edgecombecounty.org/departments/solid-waste.

Use this map of Edgecombe County to find your nearest drop-off site listed on the back of this brochure.



Remember to secure your load!
Penalties apply for uncovered loads.



DROP-OFF SITES

The following staffed convenience drop-off sites are available for ***rural Edgecombe County citizens only.***

Hours of Operation

Monday - Saturday: 7:00 am - 6:00 pm
Sunday: 2:00 pm - 6:00 pm

1 Baie Rd

349 Baie Rd — 252-446-7895
Rocky Mount, NC 27801

2 Burnette Farm Rd

46 Burnette Farm Rd — 252-823-1729
Tarboro, NC 27886

3 Colonial Rd

2797 Colonial Rd — 252-827-5422
Tarboro, NC 27886

4 Dickens Rd

1242 Dickens Rd — 252-641-1234
Tarboro, NC 27886

5 Gay Rd

1542 Gay Rd — 252-446-6896
Rocky Mount, NC 27801

6 Hart's Chapel Rd

1429 Harts Chapel Rd — 252-641-2795
Tarboro, NC 27886

7 Living Hope

442 Living Hope Church Rd — 252-827-2961
Macclesfield, NC 27852

8 Spivey Rd

1056 Spivey Rd — 252-823-4796
Tarboro, NC 27886

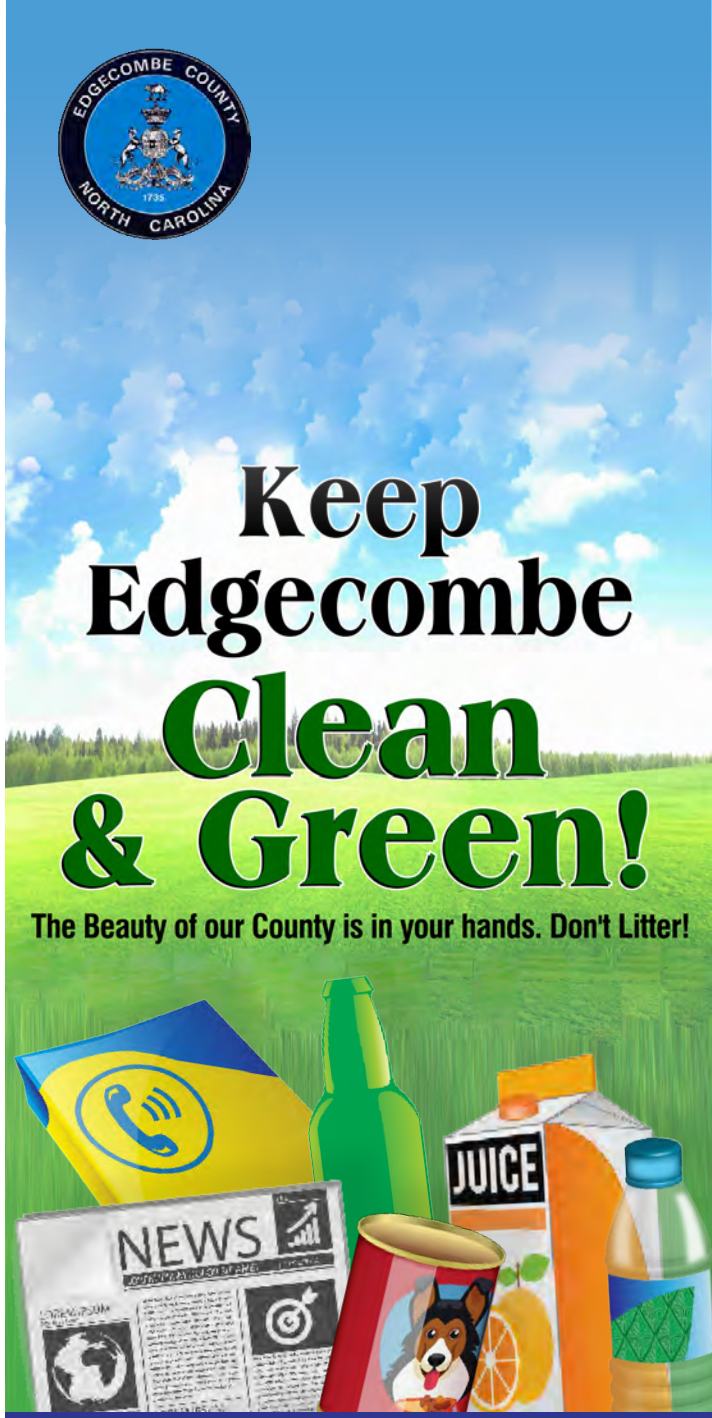
9 Wells Rd

335 Wells Rd — 252-437-1122
Whitakers, NC 27891

Solid Waste Facility

2861 Colonial Rd — 252-827-4253
Tarboro, NC 27886

RECYCLEMORENC.ORG
RECYCLEMORE



Edgecombe County Solid Waste
2861 Colonial Rd
P.O. Box 10, Tarboro, NC 27886
Phone:252-827-4253
www.edgecombecountync.gov

RECYCLE ALL TOGETHER

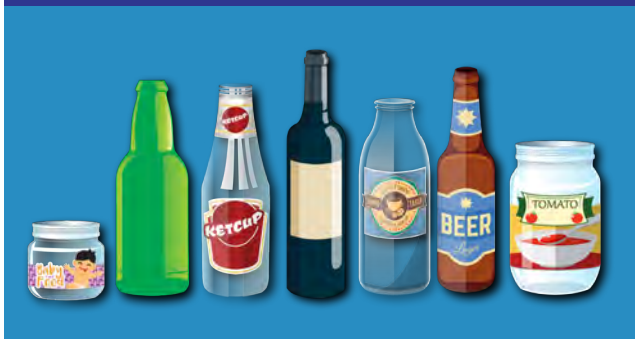
PLASTIC Bottles, jugs and jars

Empty and rinse

METAL Cans

Empty and rinse

GLASS Bottles and jars



Empty and rinse

PAPER All paper, cartons and cardboard

Flatten cardboard

KEEP THESE ITEMS OUT

- Car batteries
- Ceramic/drinking glasses
- Clothing
- Disposable cups *(plastic and coffee)*
- Electronics
- Food/liquids
- Frozen food boxes
- Medical waste
- Hazardous waste
- Plastic bags
- Scrap metal/wood
- Shredded paper
- Styrofoam
- Tanglers

ALSO ACCEPTED

The following materials are also accepted for recycling and proper disposal in separate containers at the Edgecombe County convenience drop-off sites. All loads must be properly secured with a cargo net or tarp.

Used cooking oil

Used motor oil, filters,car batteries and tires *(5 tires per week; Anti-freeze accepted at site 3 only)*

Agricultural pesticide jugs

Fluorescent and CFL bulbs *(in plastic bags w/o tape)*

Scrap metal and large appliances

Electronics

Yard trash: leaves, pine straw, brush, grass, small tree limbs *(no limbs larger than 4 ft. long or 6 in. in diameter)*

Clothing

Wooden pallets *(5 per day)*

Corrugated cardboard *(must be flattened)*

⦸ NOT ACCEPTED ⦸

These materials are not accepted at any of the Edgecombe County convenience drop-off sites. These items must be taken to the Solid Waste Facility. A tipping fee may apply.

- Animal carcasses or animal waste
- Appliance that contain CFC's
- Auto parts
- Bricks, concrete or shingles
- Burning or smoldering materials
- Construction or demolition debris
- Commercial or industrial waste
- Hazardous waste
- Household batteries ***(only at HHW events)***

ATTACHMENT 24:

Waste Water and Water Supply

Public Sewer Certification, Public Water Certification, NCORR and Edgecombe County Correspondence, and Town of Princeville Utilities Webpage

PUBLIC SEWER CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Public sewer infrastructure for the proposed project site is:

☒ available and adequate for the proposed use incorporating a ☐ Gravity Flow System or ☒ Lift Station ☑ with a new lift station required or ☐ no new lift station required.

OR

☐ NOT available and adequate for the proposed use. Explain: _____

The closest sewer main connection to the proposed project site is a 8" (size) main/ line located approximately 500' (distance) from the proposed project site. This main/ line is approximately 8' feet deep. Location of closest main/line: Lynch Drive

Additional Comments/Concerns/Conditions: _____

11-17-23
Date

(Officials Signature)

Paul S Moseley
(Officials Name – Print or Type)

Utilities Director
(Official's Title)

Water + Sewer
(Department Name)

PUBLIC WATER CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

A public water supply for the proposed project site is:

☒ available and adequate for the proposed use.

OR

☐ NOT available and adequate for the proposed use. Explain: _____

The closest water main connection to the proposed project site is a 12" (size) main/ line located approximately 25' (distance) from the proposed project site. Location of closest main/line: US Hwy 64 West + S. Main Street And S. Shiloh Farm Rd

Additional Comments/Concerns/Conditions: _____

11-17-23
Date

(Officials Signature)

Paul S Mosley
(Officials Name – Print or Type)

Utilities Director
(Official's Title)

Water + Sewer
(Department Name)

Gievers, Andrea

From: Paul Moseley <paulmoseley@edgecombeco.com>
Sent: Friday, November 17, 2023 4:30 PM
To: Gievers, Andrea
Subject: [External] Re: Princeville 53-Acre Site Redevelopment - Water & Sewer Request
Attachments: SKM_C3851FS23111708490.pdf; SKM_C3851FS23111708480.pdf

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon. I've attached the water and sewer certification forms for the Princeville 53-acre project. Thanks

Paul Moseley
Utilities Director
Edgecombe County
(252)567-9252

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, November 7, 2023 5:29 PM
To: Paul Moseley <PaulMoseley@edgecombeco.com>
Subject: RE: Princeville 53-Acre Site Redevelopment - Water & Sewer Request

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Click here to restore the original(s) or contact your system administrator.

You may be required to authenticate, in that case follow these instructions:
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2. An email with verification code will be sent to you.
3. Copy the code and return to the attachment recovery page.
4. The email with original attachments will be released to your mailbox.

Please exercise discretion when requesting to release suspicious attachments.

Sorry, I have included the aerial map and concept plan for the Princeville 53-Acre Site Redevelopment project for your reference. Thanks for your help!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 3:11 PM
To: PaulMoseley@edgecombeco.com
Subject: Princeville 53-Acre Site Redevelopment - Water & Sewer Request

Hello Mr. Moseley:

Please find enclosed two short forms on water and sewer services for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

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This email message, and any attachment(s), as well as any email message(s) that may be sent in response to it, may be considered Public Record per NC General Statute §132, and may be released to third parties without prior notice.

Gievers, Andrea

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 5:29 PM
To: 'PaulMoseley@edgecombeco.com'
Subject: RE: Princeville 53-Acre Site Redevelopment - Water & Sewer Request
Attachments: NCORR Princeville 53 Acre Site Water and Sewer.pdf

Sorry, I have included the aerial map and concept plan for the Princeville 53-Acre Site Redevelopment project for your reference. Thanks for your help!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 3:11 PM
To: PaulMoseley@edgecombeco.com
Subject: Princeville 53-Acre Site Redevelopment - Water & Sewer Request

Hello Mr. Moseley:

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Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 7, 2023

Mr. Paul Moseley
Edgecombe County Water and Sewer
201 St. Andrew Street, Suite 149
Tarboro, NC 27886

Via email: PaulMoseley@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Moseley:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and

provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on water and sewer services provided by Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

PUBLIC WATER CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

A public water supply for the proposed project site is:

☐ available and adequate for the proposed use.

OR

☐ NOT available and adequate for the proposed use. Explain: _____

_____

_____

The closest water main connection to the proposed project site is a _____(size) main/ line located approximately _____ (distance) from the proposed project site. Location of closest main/line: _____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

PUBLIC SEWER CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Public sewer infrastructure for the proposed project site is:

☐ available and adequate for the proposed use incorporating a ☐ Gravity Flow System or ☐ Lift Station ☐ with a new lift station required or ☐ no new lift station required.

OR

☐ NOT available and adequate for the proposed use. Explain: _____

_____

_____

The closest sewer main connection to the proposed project site is a _____(size) main/ line located approximately _____ (distance) from the proposed project site. This main/ line is approximately _____ feet deep. Location of closest main/line: _____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

Our Services

Edgecombe County Water and Sewer

P.O. Box 10
201 St. Andrew St. Tarboro
NC 27886 252-823-3042
https://www.edgecombecountync.gov

Edgecombe-Martin County Electric Corporation EMEMC

P.O. Box 188
679 N.C. Hwy. 33 East
Tarboro, NC 27886-0188

1-800-445-6486
252-823-2171, Fax: 252-823-4535
http://www.ememc.com

Cable Television Service

Suddenlink Communications

Telephone Service - CenturyLink

Residential Customers Telephone (252) 446-4453
Business Customers Telephone (800) 786-6272

Chamber of Commerce

Tarboro-Edgecombe Chamber of Commerce
500 N. Main Street
Tarboro, NC 27886
Telephone (252) 823-7241

Postal Service

U.S. Postal Service, Tarboro Post Office
525 Main Street
Tarboro, NC 27886
Telephone (252) 823-8164

Auto License Plates

N.C. License Plate Agency
201 St Andrews Street
Tarboro, NC 27886
Telephone (252) 823-4736

Driver's License

N.C. Drivers License Division
125 E Granville Street, PO Box 361
Tarboro, NC 27886
Telephone (252) 823-0242

Voter Registration

Edgecombe County Board of Elections
201 St Andrews Street
Tarboro, NC 27886
Telephone (252) 641-7852

Tar River Times

2219 Panola Street
Tarboro, NC 27886
Phone: (252) 641-4088
Email: tarrivertimes@gmail.com
(mailto:tarrivertimes@gmail.com)

The Rocky Mount Telegram

PO Box 1080
Rocky Mount, NC 27802
Telephone (252) 446-5161

The News & Observer

215 South McDowell Street
P.O. Box 191
Raleigh, NC 27602
Main: (919) 829-4500

WCPS Radio Station

1406 St Andrew Street
Tarboro, NC 27886
Telephone (252) 824-7878

WCPS/WKTC Radio Station

434 Falls Road, PO Box 2691
Rocky Mount, NC 27804
Telephone (252) 446-9907

WDWG/WZAX/WRMT Radio Station

12714 Hwy 97 East
Rocky Mount, NC 27804
Telephone (252) 442-8092

WNCT-FM Radio Station

2929 Radio Station Road
Greenville, NC 27834
Telephone (252) 727-0011

Television - WHIG-TV

1701 Sunset Avenue, Suite 205
Rocky Mount, North Carolina 27804
Telephone: 252-446-8857

WNCR-TV

1280 S. Wesleyan Blvd.
Rocky Mount, North Carolina 27803
Telephone: 252-407-8365

WITN-TV (NBC affiliate)

Greenville Studio
317 Arlington Blvd.
Greenville, North Carolina 27858
Telephone: 252-355-5951

WNCT-TV (CBS affiliate)

3221 S. Evans St.
Greenville, North Carolina 27858
Telephone: 252-355-8500

Contact Details

201 South Main St.
PO Box 1527
Princeville,NC 27886

252-823-1057

252-824-0430

Upcoming Events

No events

About Us

At the close of the Civil War, former slaves seeking protection and freedom left the plantations for Union troop encampments.

Read More (/town-of-princeville-nc-history.html)

Recent Posts

Princeville Levee Floodgate Re... (/latest-news/151-princeville-levee-floodgate-repairs-advertisement-for-bids.html)

Special Call Notice (/latest-news/150-special-call-notice.html)

Town of Princeville Farmer's M... (/latest-news/149-town-of-princeville-farmer-s-market-re-advertisement-for-bids.html)

138th Founder's Day Celebratio... (/latest-news/146-138th-founder-s-day-celebration.html)

Financial Audit Services RFP (/latest-news/135-financial-audit-services-rfp.html)

Useful Links

- Our Services (/our-services.html)
- Frequently Asked Questions (/frequently-asked-questions.html)
- Employment (/employment.html)

- Latest News (/latest-news.html)
- Contact Us
- Request for Proposals (/request-for-proposals.html)

Get in Touch

201 South Main St.
PO Box 1527
Princeville,NC 27886

252-823-1057

252-824-0430

© Town of Princeville, NC. website by the computer guy & co. (https://www.rrcomputerguy.com)

(https://www.facebook.com/pages/Town-of-Princeville/125633914158892)

ATTACHMENT 25:

Public Safety – Police, Fire and Emergency Medical

Law Enforcement and EMS Certifications, NCORR and Edgecombe County Correspondence, and Google Maps Search Results

LAW ENFORCEMENT CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Law Enforcement Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____ minutes falls within the average community response time of _____ minutes.

OR

■ NOT available for the proposed project and/or ■ will be adversely affected by the proposed project. Explain: We currently have six (6) deputies covering zones across the 500+ square feet of Edgecombe County. In Princeville, our response time is less than five(5) minutes, which is commendable. This redevelopment, if continued w/the contract, will require additional coverage.

Law Enforcement Service providers that serve the proposed project area include:
Our suggestion is that Princeville needs its own Police Department. We are currently averaging 258 calls monthly, including security checks in the town of Princeville.

Additional Comments/Concerns/Conditions: Princeville currently contracts an off duty deputy Thursday-Sunday. Annexing the 53 acre site will increase our response time as well as manpower that will be needed.

12/14/2023
Date

Cleveland Atkinson
(Officials Signature)

Cleveland Atkinson, Jr.
(Officials Name – Print or Type)

Sheriff of Edgecombe County
(Official's Title)

Edgecombe County Sheriff's Office
(Department Name)

Gievers, Andrea

From: Bertina Spragley <bspragley@edgecombeco.com>
Sent: Thursday, December 14, 2023 1:33 PM
To: Gievers, Andrea
Cc: Cleveland Atkinson
Subject: [External] Re: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request
Attachments: Princeville_Law Enforcement Certification_2023.pdf

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon.

Attached is the requested document regarding Princeville.

Thank you.
Bertina R. Spragley
Executive Assistant
Edgecombe County Sheriff's Office
PO Box 219 / 3005 Anaconda Rd
Tarboro NC 27886
252-641-7915 (office)
252-824-3603 (fax)
bspragley@edgecombeco.com

From: Cleveland Atkinson <sheriffatkinson@edgecombeco.com>
Sent: Thursday, December 14, 2023 1:20 PM
To: Bertina Spragley <bspragley@edgecombeco.com>
Subject: Fw: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request

---

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, December 12, 2023 5:51 PM
To: Cleveland Atkinson <sheriffAtkinson@edgecombeco.com>
Subject: FW: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request

Your attachment(s) were cleaned by Check Point Sandblast Threat Extraction.
Click here to restore the original(s) or contact your system administrator.

You may be required to authenticate, in that case follow these instructions:
1. You will be directed to a page where you would be requested to specify your email address.
2. An email with verification code will be sent to you.
3. Copy the code and return to the attachment recovery page.
4. The email with original attachments will be released to your mailbox.

Please exercise discretion when requesting to release suspicious attachments.

Hello:

This is the final request before I finalize the NEPA Environmental Assessment. Please send as soon as possible. Thanks, and let me know if you have any questions.

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Friday, December 8, 2023 9:21 AM
To: sheriffAtkinson@edgecombeco.com
Subject: RE: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request

Hello:

I have attached the fillable form on if there is adequate law enforcement and response times for the Princeville 53-Acre Site to fill out and return to me. Feel free to contact me if you have any questions. Thanks!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Monday, December 4, 2023 11:00 AM
To: sheriffAtkinson@edgecombeco.com
Subject: FW: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request

Hello:

Just a reminder to complete and return to me the attached Certification form. Please feel free to contact me if you have any questions. Thank you!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

From: Gievers, Andrea
Sent: Wednesday, November 8, 2023 12:50 PM
To: sheriffAtkinson@edgecombeco.com
Subject: FW: Princeville 53-Acre Site Redevelopment - Law Enforcement Services Request

Hello Sheriff Atkinson, Jr.:

Please find enclosed a short form on law enforcement and protection services for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.
CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.
This email message, and any attachment(s), as well as any email message(s) that may be sent in response to it, may be considered Public Record per NC General Statute §132, and may be released to third parties without prior notice.
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LAW ENFORCEMENT CERTIFICATION

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Adequate and appropriate Law Enforcement Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____minutes falls within the average community response time of _____ minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Law Enforcement Service providers that serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

November 1, 2023

Date

_____

(Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 8, 2023

Sheriff Cleveland Atkinson, Jr.
Edgecombe County Sheriff's Office
3005 Anaconda Rd
Tarboro, NC 27886

Via email: sheriffAtkinson@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
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53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
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Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
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G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

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_____

_____

Law Enforcement Service providers that serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

Gievers, Andrea

From: Antwan Brown <antwanbrown@edgecombeco.com>
Sent: Wednesday, December 13, 2023 1:27 PM
To: Gievers, Andrea
Subject: Re: [External] Re: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

I have asked the Fire of Chief Princeville Vol. Fire Dept to complete the form. You should have it by the end of this week as well. If he doesn't, I will on his behalf.

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Wednesday, December 13, 2023 12:34:46 PM
To: Antwan Brown <antwanbrown@edgecombeco.com>
Subject: RE: [External] Re: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

Thank you, Antwan! Did you decide to not complete the Fire Protection Certification? Thanks for sending!

Sincerely,

Andrea Gievers

From: Antwan Brown <antwanbrown@edgecombeco.com>
Sent: Wednesday, December 13, 2023 9:49 AM
To: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Subject: [External] Re: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good morning,

See attached for the completed EMS certification.

Antwan

From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, December 12, 2023 5:53 PM
To: Antwan Brown <antwanbrown@edgecombeco.com>
Subject: FW: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

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You may be required to authenticate, in that case follow these instructions:
1. You will be directed to a page where you would be requested to specify your email address.
2. An email with verification code will be sent to you.
3. Copy the code and return to the attachment recovery page.
4. The email with original attachments will be released to your mailbox.

Please exercise discretion when requesting to release suspicious attachments.

Hello:

This is the final request before I finalize the NEPA Environmental Assessment. Please send as soon as possible. Thanks, and let me know if you have any questions.

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Friday, December 8, 2023 9:26 AM
To: Brown, Antwan <antwanbrown_edgecombeco.com#EXT#@ncconnect.onmicrosoft.com>
Subject: RE: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

Hello:

Thanks for speaking with me this week. I have attached the fillable forms on if there are adequate EMS & Fire Protection Services and response times for the Princeville 53-Acre Site to fill out and return to me. Feel free to contact me if you have any questions. Thanks!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Monday, December 4, 2023 11:05 AM
To: Brown, Antwan <antwanbrown_edgecombeco.com#EXT#@ncconnect.onmicrosoft.com>
Cc: Eason, Chad
Subject: FW: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

Hello:

Just a reminder to complete and return to me the attached Certification form. Please feel free to contact me if you have any questions. Thank you!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development

NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

From: Gievers, Andrea
Sent: Tuesday, November 7, 2023 5:46 PM
To: Brown, Antwan <antwanbrown_edgecombeco.com#EXT#@ncconnect.onmicrosoft.com>
Cc: Eason, Chad
Subject: Princeville 53-Acre Site Redevelopment - EMS and Fire Protection Services Request

Hello Mr. Brown:

Please find enclosed two short forms on EMS and fire protection services for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.
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CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.
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EMERGENCY MEDICAL SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Emergency Medical Services for the proposed project are:

■ available for the proposed project and ■ will NOT be adversely affected by the proposed project. The estimated average response time of 8 minutes falls within the average community response time of 12 minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

EMS providers/organizations that might serve the proposed project area include:
Edgecombe County EMS

Additional Comments/Concerns/Conditions: Edgecombe County EMS coverage is handled by Edgecombe County EMS as the sole provider of EMS Pre-hospital care for Edgecombe County. All EMS calls handled through the Edgecombe County 911 Center and dispatched/ prioritized based on EMD dispatch priority and current unit availability.

12-13-2023
Date

Antwan Brown
(Officials Signature)

Antwan Brown
(Officials Name – Print or Type)

Emergency Services Director
(Official's Title)

Edgecombe County Emergency Services
(Department Name)

EMERGENCY MEDICAL SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Emergency Medical Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____minutes falls within the average community response time of _____ minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

EMS providers/organizations that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

November 1, 2023

Date

_____

(Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

FIRE PROTECTION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Fire Protection Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____minutes falls within the average community response time of _____ minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Fire Protection Services providers that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

11/1/23

Date

(Officials Signature)

(Officials Name – Print or Type)

(Official's Title)

(Department Name)

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 7, 2023

Mr. Antwan Brown
Edgecombe County Emergency Services
201 St Andrew St.
Tarboro, NC 27886

Via email: AntwanBrown@edgecombeco.com
cc: ChadEason@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Brown:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace

neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on EMS and fire protection services provided by Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

EMERGENCY MEDICAL SERVICES CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Emergency Medical Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____minutes falls within the average community response time of _____ minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

EMS providers/organizations that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

_____

(Official's Title)

_____

(Department Name)

FIRE PROTECTION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Fire Protection Services for the proposed project are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project. The estimated average response time of _____minutes falls within the average community response time of _____ minutes.

OR

☐ NOT available for the proposed project and/or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Fire Protection Services providers that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

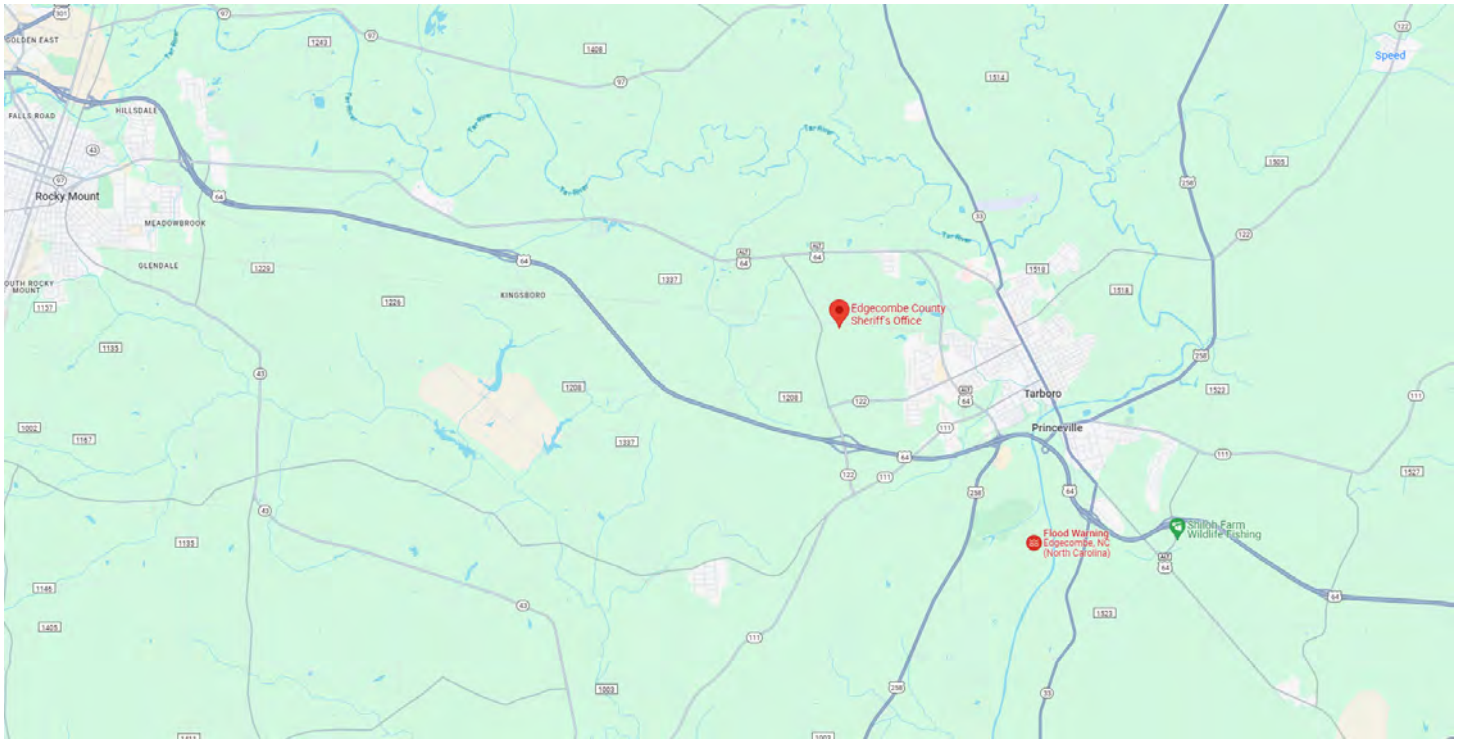
_____

(Official's Title)

_____

(Department Name)

Google Maps Edgecombe County Sheriff's Office



Map data ©2023 1 mi

Rating All filters

Results

Edgecombe County Sheriff's Office
3.3 ★★★½☆ (7)
Sheriff's department · 3005 Anaconda Rd
(252) 641-7911
"A great example for our county."

Website Directions

Edgecombe County Jail
No reviews
Prison · 3005 Anaconda Rd
Open 24 hours · (252) 641-7922

Directions

You've reached the end of the list.

Edgecombe County Sheriff's

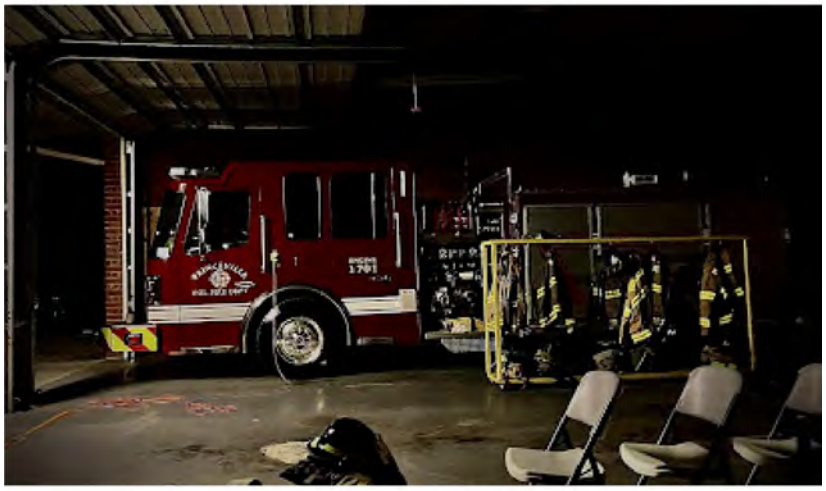
3.3 ★★★½ (7)
Sheriff's department

Overview Reviews

Directions Save Nearby Send to

Princeville Volunteer Fire

Map data ©2023 Google 2000 ft



Princeville Volunteer Fire

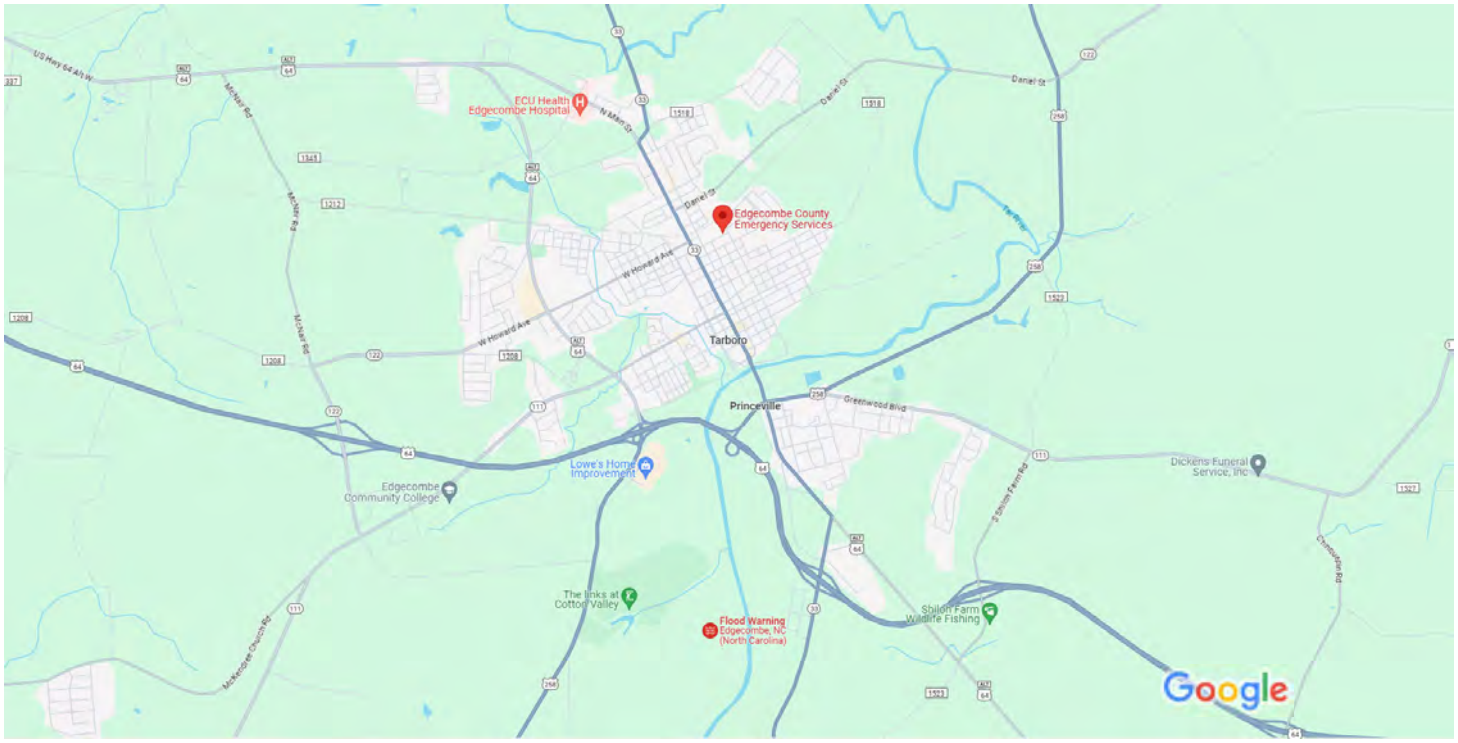
5.0 ★★★★★ (1)

Fire station

Overview Reviews About

Directions Save Nearby Send to phone Share

Google Maps Edgecombe County Emergency Services



Map data ©2023 2000 ft

Edgecombe County Emergency Services

3.0 ★★★ (1)

Public safety office

Overview Reviews About

Directions Save Nearby Send to phone Share

ATTACHMENT 26:

Parks, Open Space and Recreation

NCORR and Edgecombe County Correspondence, Google Maps and Earth Parks Search Results, Planning Princeville's Heritage Trail, and Trail Map

Gievers, Andrea

From: Gievers, Andrea
Sent: Tuesday, December 12, 2023 6:10 PM
To: Evans, Eric T
Subject: FW: Princeville 53-Acre Site Redevelopment - Parks & Rec Request
Attachments: NCORR Princeville 53 Acre Site Parks and Rec FORM.pdf

Hello:

This is the final request before I finalize the NEPA Environmental Assessment. Please send as soon as possible. Thanks, and let me know if you have any questions.

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Friday, December 8, 2023 9:29 AM
To: Evans, Eric T
Subject: RE: Princeville 53-Acre Site Redevelopment - Parks & Rec Request

Hello:

I have attached the fillable form on if there are adequate Parks and Recreational Facilities and if they will be adversely affected by the Princeville 53-Acre Site to fill out and return to me. Feel free to contact me if you have any questions. Thanks!

Sincerely,

Andrea Gievers

From: Gievers, Andrea
Sent: Monday, December 4, 2023 11:00 AM
To: Evans, Eric T
Subject: FW: Princeville 53-Acre Site Redevelopment - Parks & Rec Request

Hello:

Just a reminder to complete and return to me the attached Certification form. Please feel free to contact me if you have any questions. Thank you!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency

Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

From: Gievers, Andrea
Sent: Wednesday, November 8, 2023 12:47 PM
To: Evans, Eric T
Subject: Princeville 53-Acre Site Redevelopment - Parks & Rec Request

Hello Mr. Evans:

Please find enclosed a standard short form on parks and recreation for the Princeville 53-Acre Site Redevelopment project NEPA review. The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, Princeville 53-Acre Site Redevelopment located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886. If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM
Environmental SME
Community Development
NC Office of Recovery and Resiliency
Andrea.L.Gievers@Rebuild.NC.Gov
(845) 682-1700

PARKS AND RECREATION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Parks and Recreational Facilities and Services near the proposed project site are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project.

OR

☐ NOT available for the proposed project or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Parks and Recreational Facilities and Services that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

November 1, 2023
Date

_____
(Officials Signature)

_____
(Officials Name – Print or Type)

_____
(Official's Title)

_____
(Department Name)

North Carolina Department of Public Safety
Office of Recovery and Resiliency

Roy Cooper, Governor
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

November 8, 2023

Mr. Eric Evans, County Manager
Edgecombe County
201 St. Andrew St.
4th Floor Administration
Tarboro, NC 27886

Via email: ericevans@edgecombeco.com

RE: NCORR - HUD CDBG-MIT Program
Princeville 53-Acre Site Redevelopment
53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive
Princeville, North Carolina 27886

Dear Mr. Evans:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Mitigation (CDBG-MIT) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Princeville 53-Acre Site Redevelopment** located at a **53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive, Princeville, Edgecombe County, NC 27886**.

The Town of Princeville, North Carolina has requested HUD CDBG-MIT funding for the Phase One construction of water, sewer, electrical, stormwater, and road infrastructure on a vacant 53-acre site which will later support the development of critical town facilities (police and fire stations, public works facility, and Town Hall Annex), offices and commercial buildings, single- and multi-family housing, and parks/open space. The 53-acre site will have roads, sidewalks, ADA ramps, parking areas, and street signs throughout the site with direct access points (including temporary gravel construction entrances) and turn lanes on S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road. Phase One includes potential acquisition of a northern adjacent parcel located at 1029 Lynch Drive that will link the 53-acre site to Lynch Drive in the Southern Terrace

neighborhood by a two-lane collector road and to the existing water line in Lynch Drive and provide parking areas. The proposed project includes engineering designs, site surveys, geotechnical investigations, and construction of roads, parking areas, and site infrastructure, including installation of water piping, sewer force mains, sewer lift station, gravity sewer piping, backflow preventers, electrical conduit and service, fiber optic cable, fire hydrants, stormwater collection systems, and connections to existing infrastructure, relocation of utility poles, and landscaping. Stormwater collection systems include proposed wet and dry ponds with forebays, various-sized RCP with grate inlets and headwalls throughout the site, and outlet structures connecting to 30" RCP along U.S. Highway 64 West. Erosion control devices including silt fences will be utilized throughout the Subject Property. All necessary permits including an erosion and sediment control (E&SC) permit and a certificate of coverage (COC) must be obtained before any land disturbing activities occur.

The proposed project is Phase One of a multi-phase project which will ultimately redevelop the 53-acre site with municipal facilities including police and fire stations, public works facility, and Town Hall Annex; offices; commercial buildings; single- and multi-family housing (apartments, townhomes, and single-family homes); a stormwater retention pond; and community open space. In August 2017, a five-day design community workshop was conducted on strategies for the 53-acre site including the relocation of select public facilities and development of replacement housing outside of the 100-year floodplain. Relocation of the Town's critical facilities, businesses, and residents to the 53-acre site located outside of the 100-year floodplain and areas of frequent flooding will reduce property damage and the threat to public health and safety while providing enhanced, uninterrupted municipal services to the residents during future storm events. Design and studies are funded by the North Carolina Office of State Budget and Management (NC OSBM). The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR processes environmental reviews for proposed projects funded by HUD CDBG-MIT on a case-by-case basis. This letter is a formal request to determine what effect(s) the proposed project might have on parks and recreation in Edgecombe County. Using your expertise, please fill out the attached form indicating which type of impact your agency anticipates due to the proposed project by placing an **X** beside the appropriate impact category. Please return the completed form within 30 days of receipt of this letter, attaching any necessary documentation, to me via email at Andrea.L.Gievers@Rebuild.NC.gov.

If you have any questions or require additional information regarding this request, please feel free to contact Andrea Gievers at (845) 682-1700 or via email at Andrea.L.Gievers@Rebuild.NC.gov. Thank you for your time and assistance.

Sincerely,

Andrea Gievers

Andrea Gievers, JD, MSEL, ERM
NCORR Environmental Subject Matter Expert

Princeville 53-Acre Site Redevelopment - Aerial Map

October 9, 2023

Princeville 53-Acre Site Redevelopment

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

Legend

- Commercial
- Office / Institutional
- Multi-family
- Townhomes
- Single Family
- Parks and Open Space

Future study needed to determine exact location and design of commercial and municipal sites and buildings and parks. For instance, space needs and location of Town Hall Annex and Community Center / Emergency Operations Center / Shelter needs to be determined.

Development Summary

Area	Land Use*	Acres	Notes
A	Commercial	6.3	
B	Apartments	3.8	Coordination with stakeholders needed to determine design and number of units
C	Commercial	2.7	
D	Municipal	4.2	Operations & Town Hall Annex
E	Single Family	2	15 Units
F	Townhomes	1.9	22 Units
G	Commercial / Municipal	4	Future study needed*
H	Commercial / Municipal	2.9	Fire Station Site
OS	Parks and Open Space	5.6	Future study needed*
S	Stormwater	8.62	Acreage from SME Site Plan (10.17.2019)

Date: June 2, 2022

Town Of PRINCEVILLE
OLDEST TOWN CHARTERED BY BLACKS IN AMERICA

53 Acres, Town of Princeville
- SITE PLAN CONCEPT -

STEWART

PARKS AND RECREATION CERTIFICATION

Project Name: Princeville 53-Acre Site Redevelopment

Proposed No. of Units: Apartments (To Be Determined), Townhouses (22 Units), and Single-Family Homes (15 Units), municipal, commercial, and open space

Address: 53 acres along U.S. Hwy 64 West between S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive Princeville, North Carolina 27886

Closest Intersection or Landmark: U.S. Hwy 64 West and S. Main Street (U.S. Hwy 64 Alternate East) and S. Shiloh Farm Road

Adequate and appropriate Parks and Recreational Facilities and Services near the proposed project site are:

☐ available for the proposed project and ☐ will NOT be adversely affected by the proposed project.

OR

☐ NOT available for the proposed project or ☐ will be adversely affected by the proposed project. Explain: _____

_____

_____

Parks and Recreational Facilities and Services that might serve the proposed project area include:

_____

_____

_____

Additional Comments/Concerns/Conditions: _____

_____

_____

_____

_____ _____

Date (Officials Signature)

_____

(Officials Name – Print or Type)

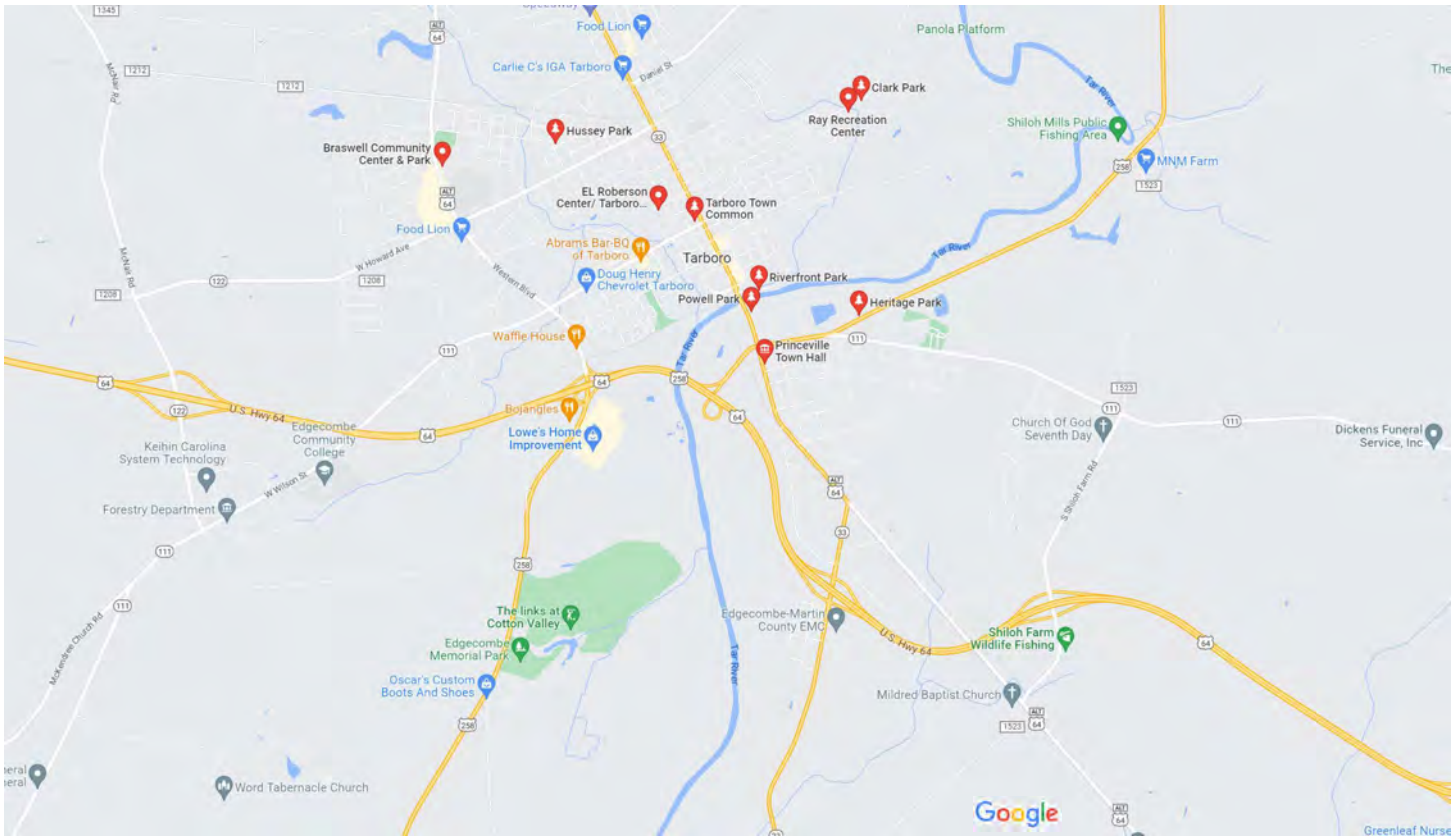
_____

(Official's Title)

_____

(Department Name)

Google Maps parks and recreation in Princeville, NC



Rating | Hours | All filters

Powell Park
No reviews
Park

Heritage Park
3.4 (7)
Park · 428 Mutual Blvd
Open now

"Cute little park with restroom and playground for the kids."

Hussey Park
No reviews
Park · 809 Linden St

E. L. Roberson Center/ Tarboro Parks & Recreation Administration
4.8 (20)
Park · 305 W Baker St
Closed · Opens 8 AM Fri

Riverfront Park
4.7 (16)
Park · 100 River Rd

"Beautiful park with a nice pavilion and a boat launch."

A

Heritage Park

428 Mutual Blvd, Princeville, NC 27886
(252) 823-1057 · townofprinceville.com

B

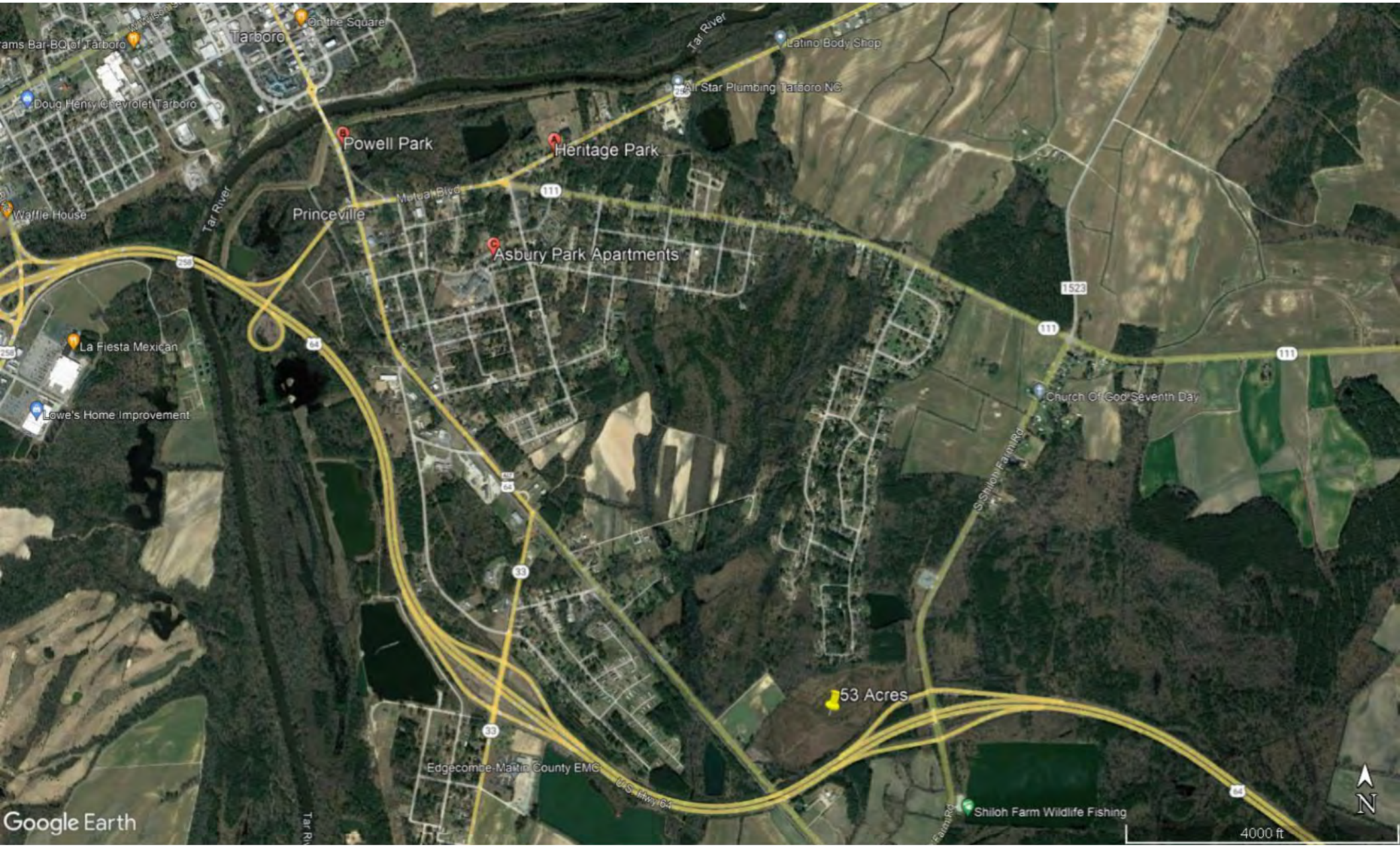
Powell Park

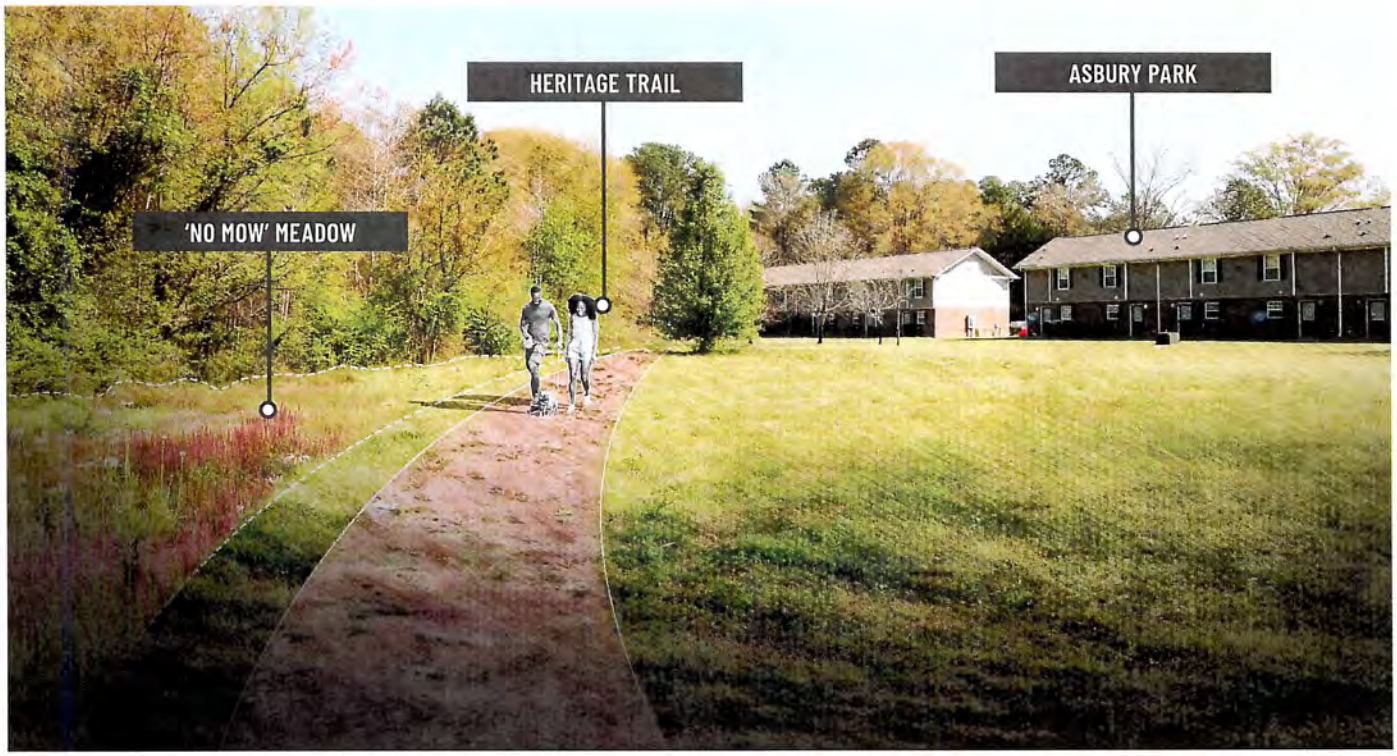
Princeville, NC 27886

C

Asbury Park Apartments

400 Walston St, Princeville, NC 27886
(252) 823-0940


Tarboro
On the Square
Tar River
Latino Body Shop
Air Star Plumbing Tarboro NC
Doug Henry Chevrolet Tarboro
Powell Park
Heritage Park
Mutual Blvd
111
Waffle House
Princeville
Asbury Park Apartments
1523
La Fiesta Mexican
Lowe's Home Improvement
Church Of God Seventh Day
S Shiloh Farm Rd
53 Acres
Edgecombe-Martin County EMC
U.S. Hwy 64
Shiloh Farm Wildlife Fishing
Google Earth
4000 ft
N



PLANNING PRINCEVILLE'S HERITAGE TRAIL

GIVE YOUR INPUT AS WE BUILD A RESILIENT FUTURE TOGETHER

The Town of Princeville is working with NC State University, the Conservation Trust for North Carolina, and the Conservation Corps North Carolina to build the first phases of the Heritage Trail and Princeville Elementary School Rain Gardens.

The Heritage Trail will be a nature trail built by crews of local young people. It will allow people to walk from Princeville Elementary School to the Princeville History Museum. The Heritage Trail will also educate youth, residents, and visitors about nature and the role of water in the community.

We are looking for input on this exciting project from you, your friends and your family!

WILL YOU PLEASE HELP IMPROVE THE PROJECT BY SHARING YOUR THOUGHTS?

Scan the QR CODE below to access the survey.

SCAN ME

Or use the following link :

http://bitly.ws/cl24

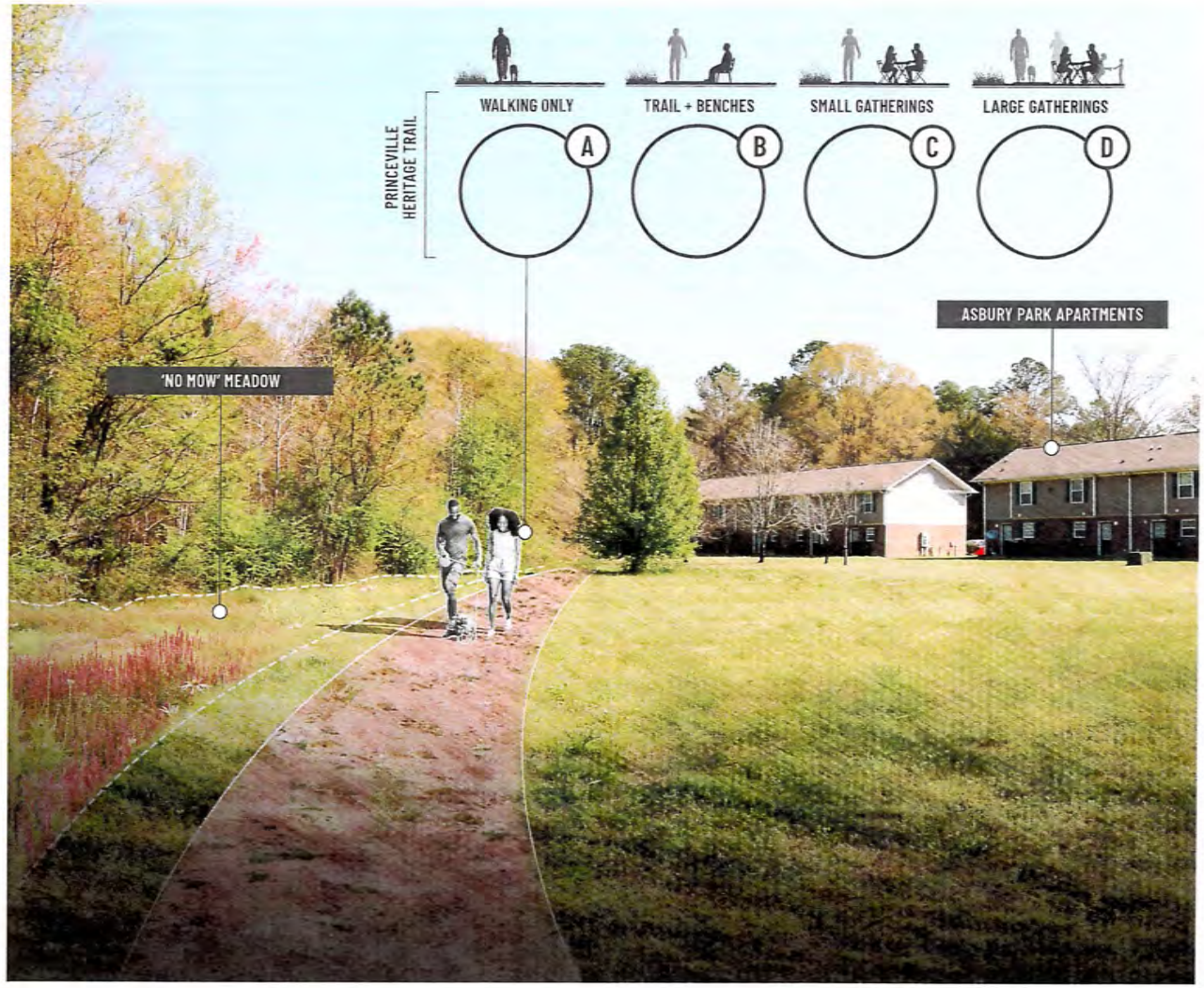
HERITAGE TRAIL
GIVE YOUR INPUT!

VOTING INSTRUCTIONS: Using the provided push-pin, please **vote on which ONE of the four trail options you prefer the most.** Your input will be used to inform final planning and construction decisions for this section of the Princeville Heritage Trail.

BACKGROUND:
The Town of Princeville is working with NC State University, the Conservation Trust for North Carolina, and the Conservation Corps of North Carolina to build the first phases of the Princeville Heritage Trail. **The trail will allow people to walk from Princeville Elementary School to the Princeville History Museum**, and will also educate youth, residents, and visitors about natural systems and the role of water in the community.

COMMENTING INSTRUCTIONS: Using the provided post-it notes, please use the comment box below to **write any additional considerations** you would like the team to be aware of for this project.

Comments can also be sent via email to: ***coastaldynamics@ncsu.edu***



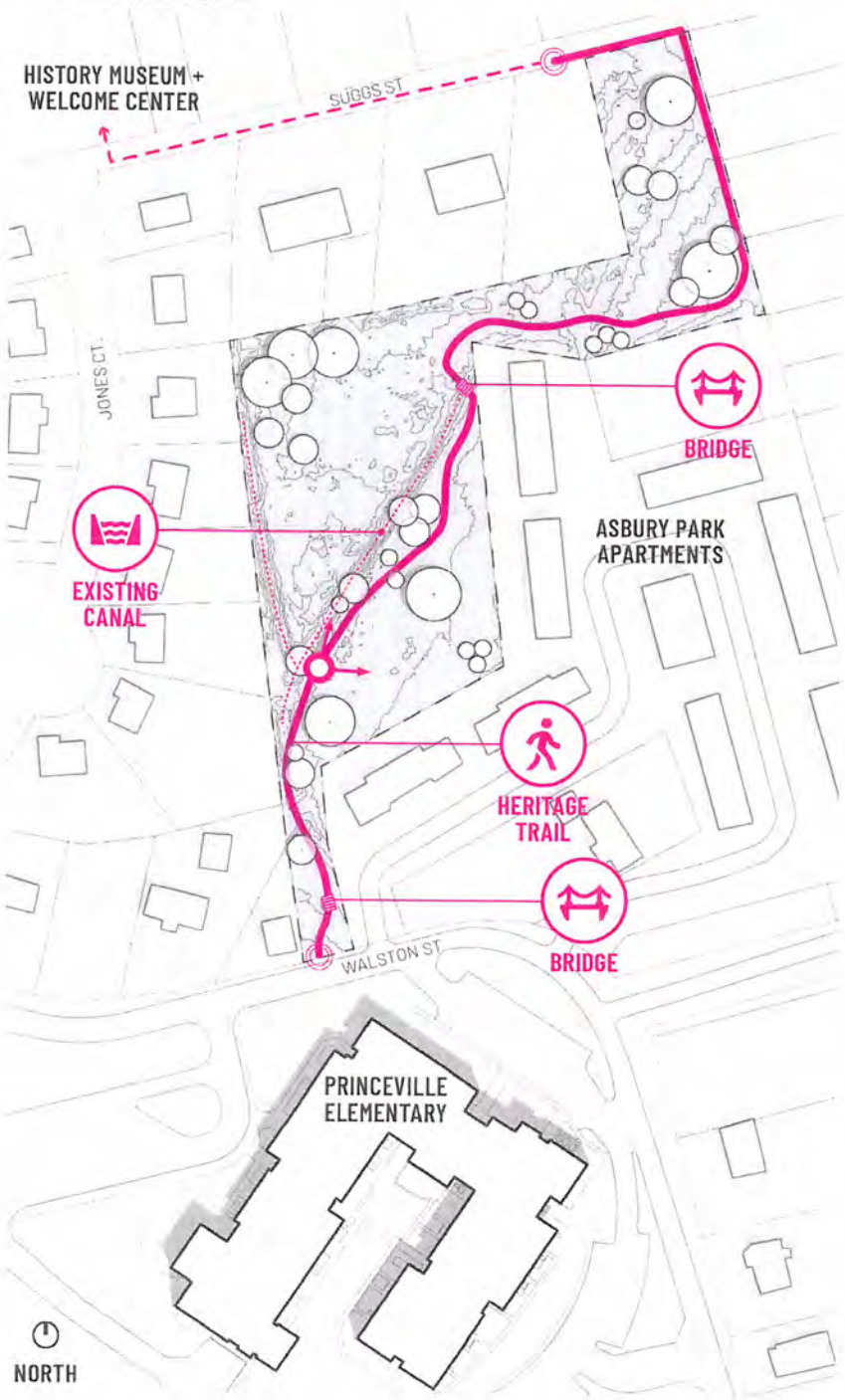
View from proposed trail behind Asbury Park Apartments

PHASE 1: PRINCEVILLE HERITAGE TRAIL
COMMUNITY SURVEY

Working with the Town of Princeville, the Conservation Trust for North Carolina, Conservation Corps North Carolina, and NC State's Coastal Dynamics Design Lab are creating a nature trail this summer. Crews of local young people will construct the path. The trail will allow people to walk from Princeville Elementary School to the Princeville History Museum. It will also educate local youth, residents, and visitors about nature and the role of water in the community.

The map below shows where the trail will be, generally. We want community members to be excited by this project and to feel good about its features. Will you please help by giving us some feedback about our plans?

TRAIL MAP



SURVEY QUESTIONS

1. Do you have any concerns regarding this trail?
   - ☐ Lighting
   - ☐ Routing
   - ☐ Signage
   - ☐ Noise
   - ☐ Construction
   - ☐ None at this time
   - ☐ Other:

2. How often do you visit Asbury Park?
   - ☐ I live here
   - ☐ Once a week
   - ☐ Once a month
   - ☐ Never

If you would like to complete this survey online, please scan the QR code:

SCAN ME

3. Which of these options do you prefer (please check all that apply):

☐ **WALKING TRAIL ONLY**

☐ **TRAIL BENCHES**

☐ **SMALL FAMILY GATHERING**

☐ **LARGE FAMILY GATHERING**

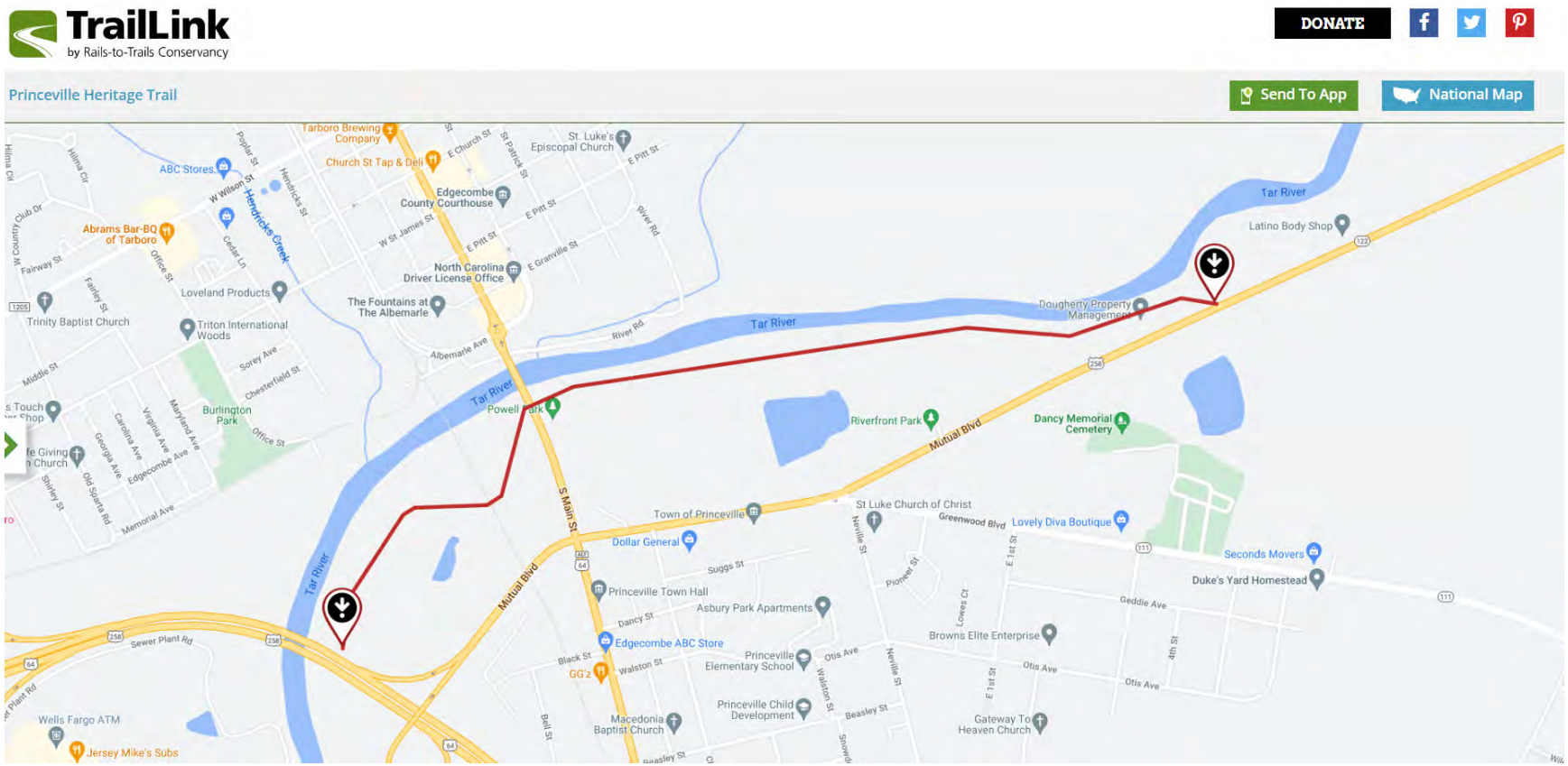
4. Beyond adding to our trail network around Town, we want to understand the top priorities you would like to address in the next few years. After flooding and housing affordability/availability, what should be the next top priority? For more information, visit www.princevilletownplan.com.

_____

_____

_____

TrailLink, Princeville Heritage Trail, at https://www.traillink.com/trail/princeville-heritage-trail/



ATTACHMENT 27:

Climate Change

EJSCREEN website's Climate Change Data
for Princeville and CMRAT Data for
Edgecombe County

Hazard Report

Extreme Heat

Edgecombe County, North Carolina

Total Population
52,648

Non-Hispanic White Population (%)
64%

Income Below Poverty in Last 12 Mo (%)
24%

Building Codes Hazard Resistance
Lower Resistance

% Population Disadvantaged
100.00%

Explore additional data

U.S. Climate Resilience Toolkit

Source: Census Bureau, CEQ, Esri, FEMA, MRLC, NOAA, UCSD

National Risk Index Rating
Relatively High

according to the FEMA National Risk Index

Extreme Heat Annualized Frequency
1.15

Expected Annual Loss Rating
Relatively Moderate

Expected Annual Loss Total ($)
$376,820.52

Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Ce (2070 -
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Temperature thresholds:						
Annual days with maximum temperature > 90°F	**41 days** 41 - 49	**73 days** 50 - 89	**75 days** 55 - 93	**85 days** 55 - 108	**95 days** 65 - 111	**96 days** 64 - 121
Annual days with maximum temperature > 95°F	**10 days** 8 - 13	**26 days** 11 - 39	**28 days** 15 - 45	**36 days** 15 - 56	**45 days** 20 - 64	**46 days** 20 - 73
Annual days with maximum temperature > 100°F	**1 days** 0 - 1	**4 days** 1 - 10	**5 days** 2 - 13	**8 days** 2 - 20	**12 days** 2 - 32	**13 days** 3 - 20
Annual days with maximum temperature > 105°F	**0 days** 0 - 0	**0 days** 0 - 1	**0 days** 0 - 2	**1 days** 0 - 3	**2 days** 0 - 11	**2 days** 0 - 7
Annual temperature:						
Annual single highest maximum temperature °F	**99 °F** 98 - 100	**102 °F** 99 - 104	**103 °F** 100 - 105	**104 °F** 100 - 106	**105 °F** 101 - 109	**105 °F** 101 - 108
Annual highest maximum temperature averaged over a 5-day period °F	**95 °F** 94 - 96	**98 °F** 96 - 100	**98 °F** 96 - 101	**99 °F** 96 - 102	**101 °F** 97 - 105	**101 °F** 98 - 104
Cooling degree days (CDD)	**1684 degree-days** 1629 - 1779	**2,108 degree-days** 1,809 - 2,437	**2,152 degree-days** 1,876 - 2,377	**2,325 degree-days** 1,903 - 2,734	**2,514 degree-days** 2,077 - 2,881	**2,552 degree-days** 2,072 - 3,017

N/A = Data Not Availal

©2023 Esri

Hazard Report

Drought

Edgecombe County, North Carolina

Total Population
52,648

Non-Hispanic White Population (%)
64%

National Risk Index Rating
Relatively High

according to the FEMA National Risk Index

Drought Annualized Frequency
11.22

Expected Annual Loss Rating
Relatively Moderate

Expected Annual Loss Total ($)
$1,207,404.36

Future Climate Indicators

	Modeled History	Early Century	Mid Century	Late Ce

Income Below Poverty in Last 12 Mo (%)
24%

Building Codes Hazard Resistance
Lower Resistance

% Population Disadvantaged
100.00%

Explore additional data

U.S. Climate Resilience Toolkit

Source: Census Bureau, CEQ, Esri, FEMA, MRLC, NOAA, UCSD

Indicator	Modeled History (1976 - 2005)	(2015 - 2044)		(2035 - 2064)		(2070 -
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Precipitation:						
Average annual total precipitation	**47"** 45 - 49	**49"** 46 - 53	**49"** 44 - 53	**50"** 45 - 54	**50"** 45 - 53	**50"** 44 - 55
Days per year with precipitation (wet days)	**180 days** 174 - 185	**179 days** 165 - 188	**178 days** 158 - 189	**179 days** 157 - 193	**177 days** 150 - 193	**179 days** 155 - 194
Days per year with no precipitation (dry days)	**185 days** 180 - 191	**186 days** 177 - 201	**187 days** 176 - 207	**186 days** 172 - 209	**188 days** 172 - 215	**186 days** 171 - 210
Maximum number of consecutive dry days	**13 days** 11 - 14	**13 days** 11 - 15	**13 days** 11 - 15	**13** days 12 - 16	**14 days** 12 - 16	**14 days** 12 - 16
Temperature thresholds:						
Annual days with maximum temperature > 90 °F	**41 days** 41 - 49	**73 days** 50 - 89	**75 days** 55 - 93	**85 days** 55 - 108	**95 days** 65 - 111	**96 days** 64 - 121
Annual days with maximum temperature > 100 °F	**1 days** 0 - 1	**4 days** 1 - 10	**5 days** 2 - 13	**8 days** 2 - 20	**12 days** 2 - 32	**13 days** 3 - 20

N/A = Data Not Availal

©2023 Esri

Hazard Report

Wildfire

Edgecombe County, North Carolina

Total Population
52,648

Non-Hispanic White Population (%)
64%

Income Below Poverty in Last 12 Mo (%)
24%

Building Codes Hazard Resistance
Lower Resistance

% Population Disadvantaged
100.00%

Explore additional data

National Risk Index Rating
Very Low

Wildfire Annualized Frequency
0.00

Wildfire Hazard Potential (Mean)
62.02

Expected Annual Loss Rating
Very Low

Expected Annual Loss Total ($)
$462.94

according to the FEMA National Risk Index

Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Ce (2070 -
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Precipitation:						
Days per year with no precipitation (dry days)	**185 days** 180 - 191	**186 days** 177 - 201	**187 days** 176 - 207	**186 days** 172 - 209	**188 days** 172 - 215	**186 days** 171 - 210
Maximum number of consecutive dry days	**13 days** 11 - 14	**13 days** 11 - 15	**13 days** 11 - 15	**13 days** 12 - 16	**14 days** 12 - 16	**14 days** 12 - 16
Days per year with precipitation (wet days)	**180 days**	**179 days**	**178 days**	**179 days**	**177 days**	**179 days**

U.S. Climate Resilience Toolkit

Source: Census Bureau, CEQ, Esri, FEMA, MRLC, NOAA, UCSD

	174 - 185	165 - 188	158 - 189	157 - 193	150 - 193	155 - 194
Temperature thresholds:						
Annual days with maximum temperature > 90°F	**41 days** 41 - 49	**73 days** 50 - 89	**75 days** 55 - 93	**85 days** 55 - 108	**95 days** 65 - 111	**96 days** 64 - 121
Annual days with maximum temperature > 100°F	**1 days** 0 - 1	**4 days** 1 - 10	**5 days** 2 - 13	**8 days** 2 - 20	**12 days** 2 - 32	**13 days** 3 - 20

N/A = Data Not Availal

©2023 Esri

Hazard Report

Flooding

Edgecombe County, North Carolina

Total Population
52,648

Non-Hispanic White Population (%)
64%

Income Below Poverty in Last 12 Mo (%)
24%

Building Codes Hazard Resistance
Lower Resistance

% Population Disadvantaged
100.00%

Explore additional data

U.S. Climate Resilience Toolkit

Source: Census Bureau, CEQ, Esri, FEMA, MRLC, NOAA, UCSD

National Risk Index Rating
Relatively High

according to the FEMA National Risk Index

Flooding Annualized Frequency
1.38

Expected Annual Loss Rating
Relatively High

Expected Annual Loss Total ($)
$4,975,251.10

Area in a 100-year / 500-year flood zone (%)
14.93% / 3.79%

Area outside 100-year or 500-year flood zone (%)
81.27%

Area unmapped/undetermined for flooding (%)
0.00%

Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Ce (2070 -
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Precipitation:						
Annual average total precipitation	**47"** 45 - 49	**49"** 46 - 53	**49"** 44 - 53	**50"** 45 - 54	**50"** 45 - 53	**50"** 44 - 55
Days per year with precipitation (wet days)	**180 days** 174 - 185	**179 days** 165 - 188	**178 days** 158 - 189	**179 days** 157 - 193	**177 days** 150 - 193	**179 days** 155 - 194
Maximum period of consecutive wet days	**12 days** 11 - 14	**13 days** 11 - 15	**13 days** 10 - 15	**13 days** 10 - 16	**13 days** 11 - 17	**13 days** 11 - 15
Annual days with:						
Annual days with total precipitation > 1inch	**7 days** 6 - 8	**8 days** 6 - 9	**8 days** 6 - 10	**8 days** 6 - 10	**8 days** 6 - 10	**8 days** 6 - 11
Annual days with total precipitation > 2 inches	**1 days** 0 - 1	**1 days** 1 - 1	**1 days** 0 - 1	**1 days** 0 - 1	**1 days** 1 - 1	**1 days** 0 - 1
Annual days with total precipitation > 3 inches	**0 days** 0 - 0	**0 days** 0 - 0	**0 days** 0 - 0	**0 days** 0 - 0	**0 days** 0 - 0	**0 days** 0 - 0
Annual days that exceed 99th percentile precipitation	**6 days** 6 - 8	**7 days** 7 - 9	**7 days** 7 - 9	**8 days** 7 - 9	**8 days** 7 - 9	**8 days** 7 - 10
Days with maximum temperature below 32 °F	**1 days** 1 - 2	**1 days** 0 - 2	**1 days** 0 - 1	**1 days** 0 - 2	**0 days** 0 - 1	**0 days** 0 - 1

N/A = Data Not Availal

Hazard Report

Coastal Inundation

Edgecombe County, North Carolina

Total Population
52,648

Non-Hispanic White Population (%)
64%

Income Below Poverty in Last 12 Mo (%)
24%

Building Codes Hazard Resistance
Lower Resistance

% Population Disadvantaged
100.00%

Explore additional data

U.S. Climate Resilience Toolkit

Source: Census Bureau, CEQ, Esri, FEMA, MRLC, NOAA, UCSD

National Risk Index Rating
Very Low

according to the FEMA National Risk Index

Coastal Inundation Annualized Frequency
2.60

Expected Annual Loss Rating
Very Low

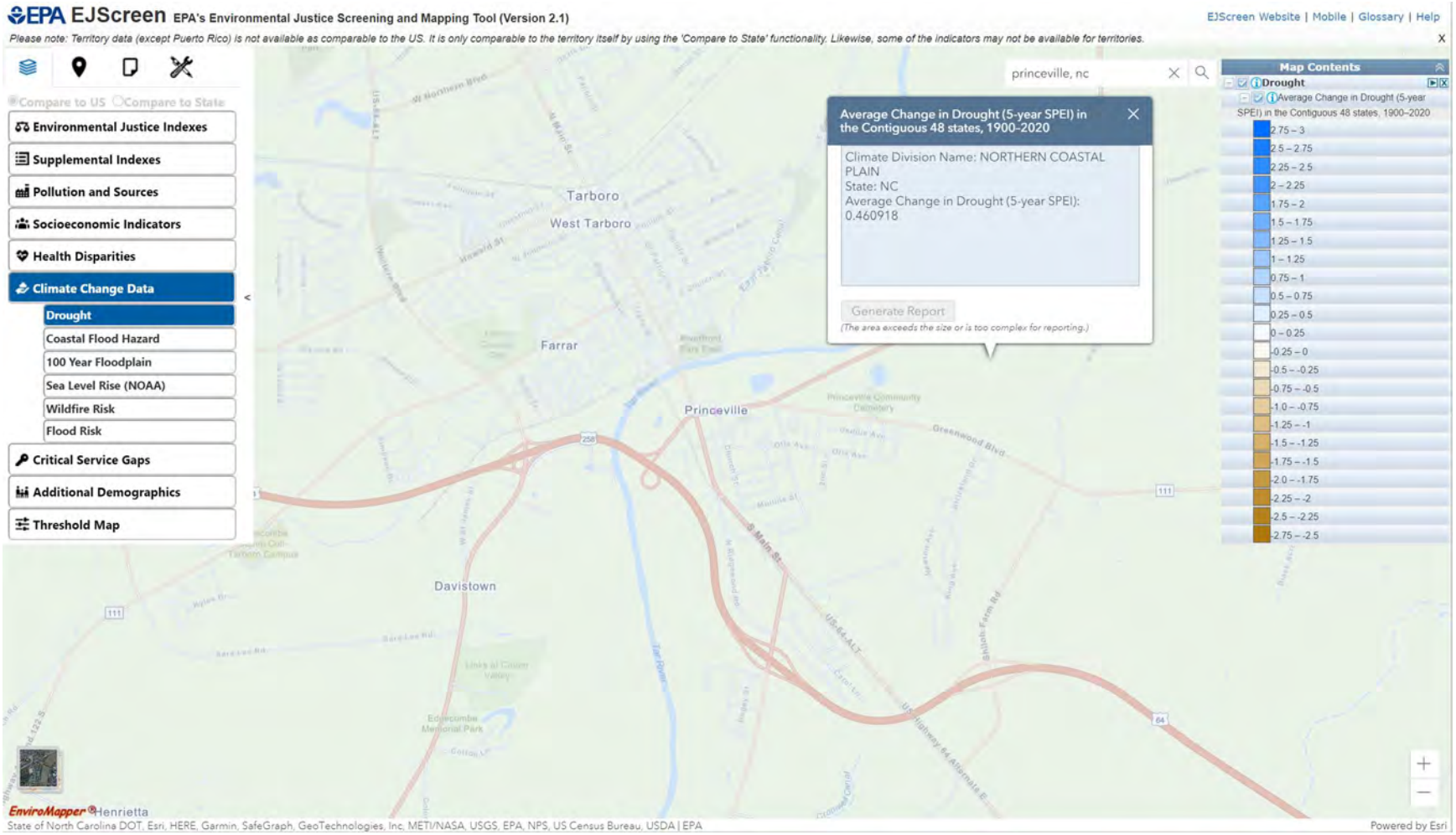
Expected Annual Loss Total ($)
$1,479.77

Future Climate Indicators

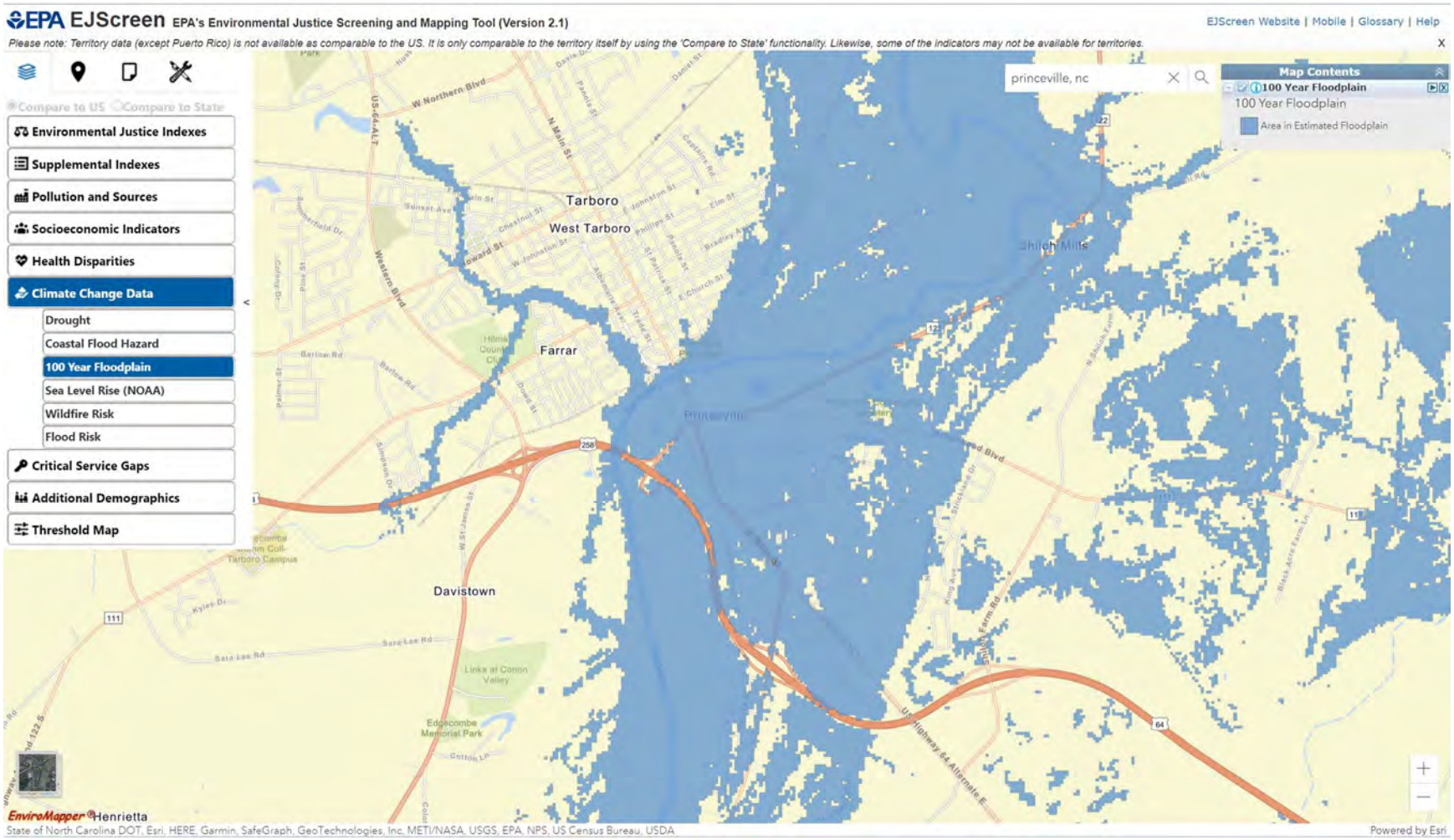
Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Ce (2070 -
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Sea level rise:						
Percent of selected county impacted by global sea level rise	N/A	0%	0%	0%	0%	0%

N/A = Data Not Availal

Princeville 53-Acre Site Redevelopment – Drought

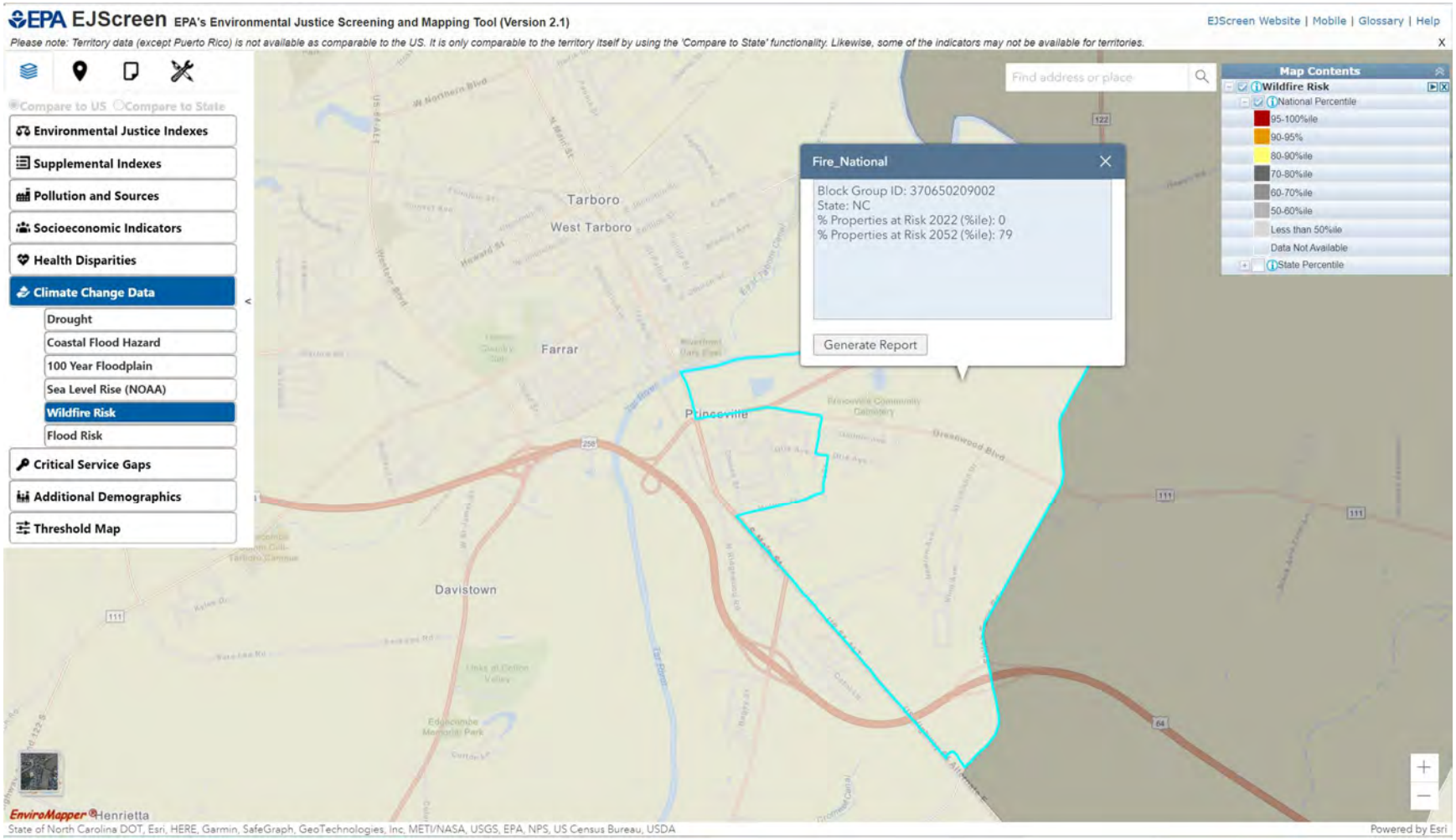


Princeville 53-Acre Site Redevelopment – 100- year Floodplain

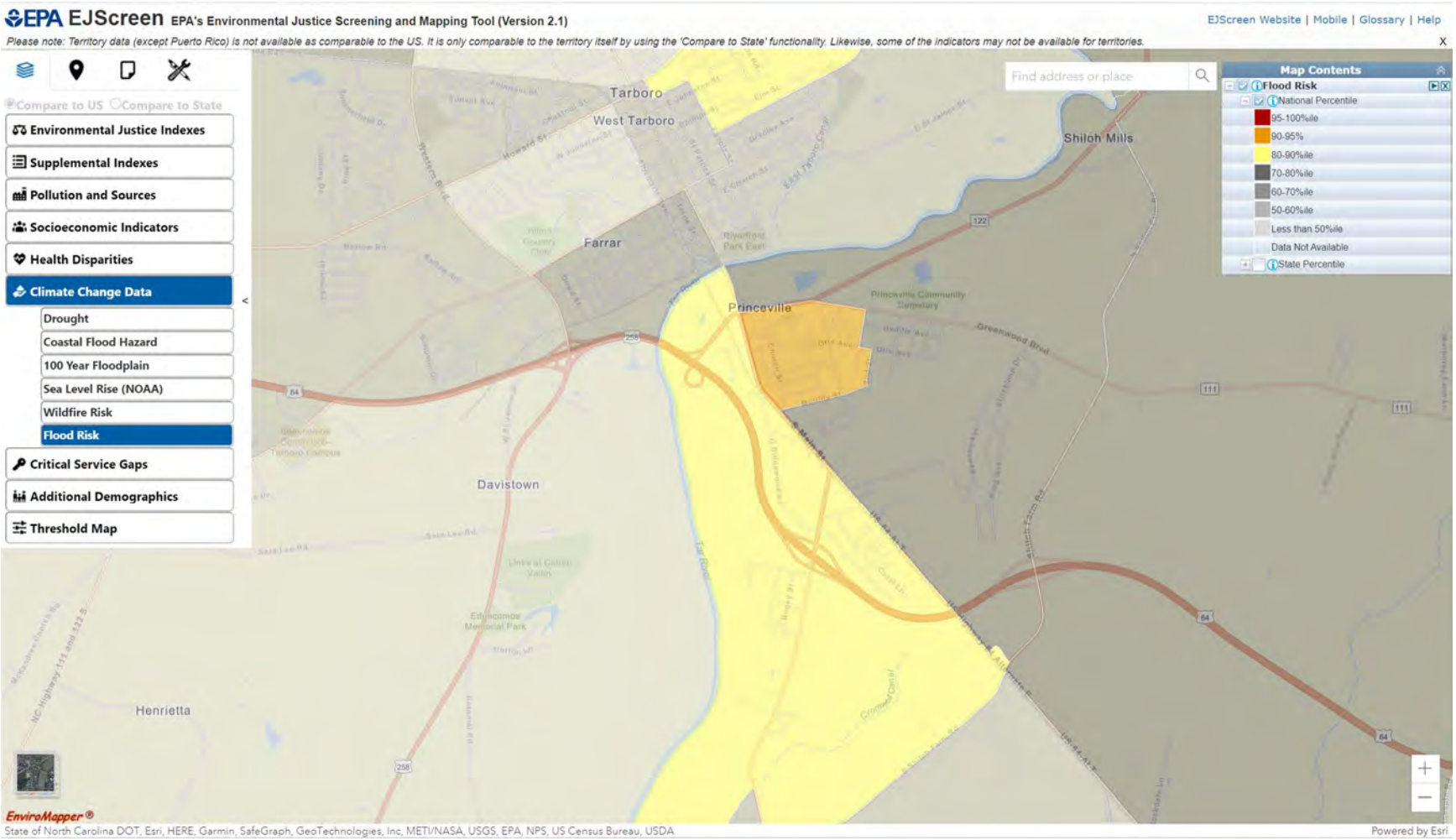


Princeville 53-Acre Site Redevelopment – 100-Year Floodplain (Subject Property)

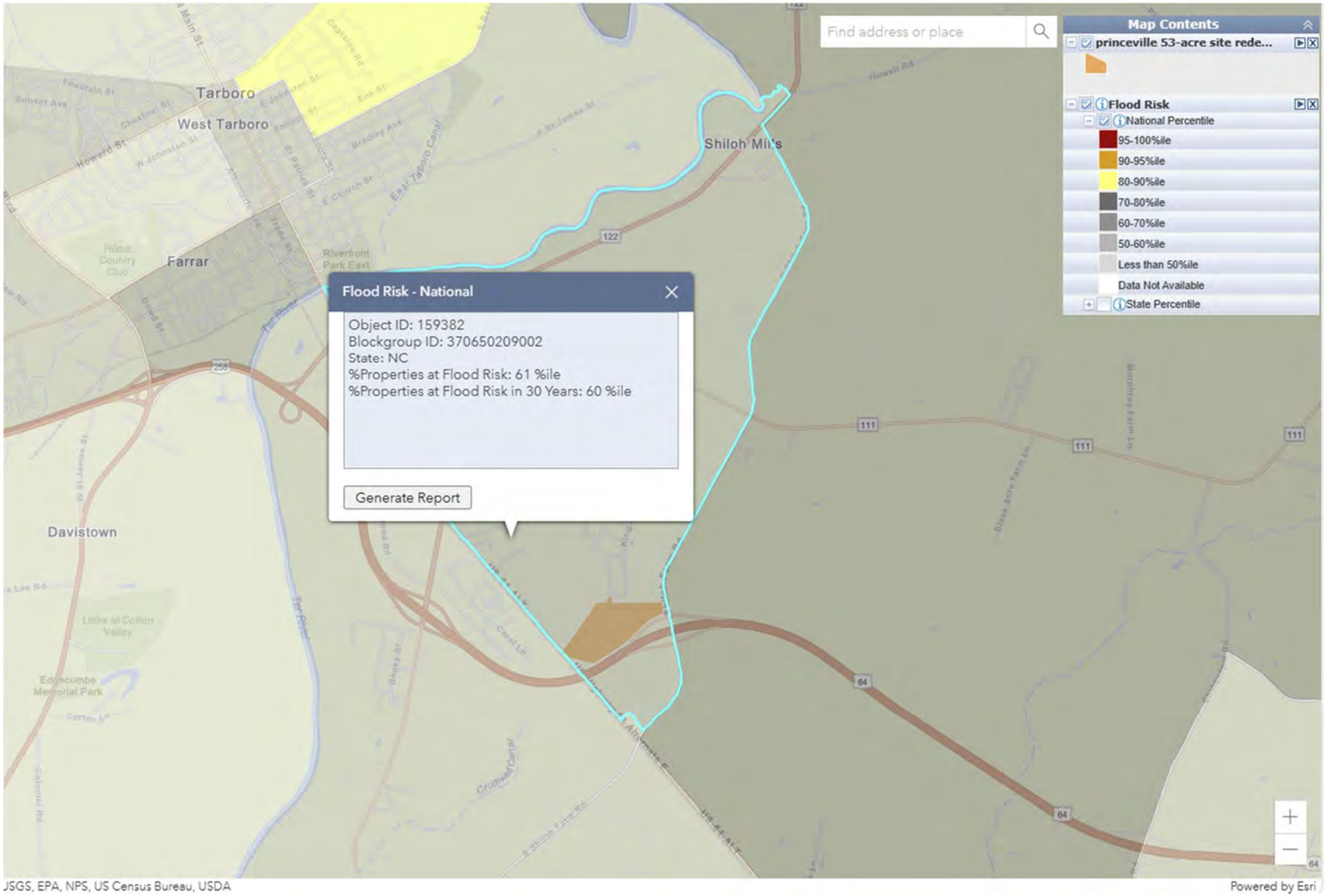
Princeville 53-Acre Site Redevelopment – Wildfire Risk



Princeville 53-Acre Site Redevelopment – Flood Risk



Princeville 53-Acre Site Redevelopment –Flood Risk (Subject Property)



ATTACHMENT 27:

State Environmental Clearinghouse Comments

SCH Comments on Draft EA and Early Notice

Roy Cooper
Governor

Pamela B. Cashwell
Secretary

December 6, 2023

Andrea Gievers
Town of Princeville
c/o NC Department of Public Safety
Office of Recovery and Resiliency
Durham, NC 27709-

Re: SCH File # 24-E-0000-0143 Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

Dear Andrea Gievers:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act.

Attached to this letter are comments made by the agencies in the review of this document. If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

If you have any questions, please do not hesitate to contact me at (984) 236-0000.

Sincerely,

KADISHA MOLYNEAUX
State Environmental Review Clearinghouse

Attachments

Control No.: 24-E-0000-0143

County.: EDGECOMBE

Date Received: 11/20/2023

Agency Response: 12/4/2023

Review Closed: 12/4/2023

JOSEPH HUDYNCIA
CLEARINGHOUSE COORDINATOR
DEPT OF AGRICULTURE

Project Information

Type: National Environmental Policy Act ping

Applicant: Town of Princeville

Project Desc.: Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

As a result of this review the following is submitted:

☑ No Comment ☐ Comments Below ☐ Documents Attached

Reviewed By: JOSEPH HUDYNCIA

Date: 12/4/2023

Control No.: 24-E-0000-0143

County.: EDGECOMBE

Date Received: 11/20/2023

Agency Response: 12/4/2023

Review Closed: 12/4/2023

JINTAO WEN

CLEARINGHOUSE COORDINATOR

DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Type: National Environmental Policy Act ping

Applicant: Town of Princeville

Project Desc.: Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

As a result of this review the following is submitted:

☑ No Comment ☐ Comments Below ☐ Documents Attached

Reviewed By: JINTAO WEN

Date: 11/27/2023

Control No.: 24-E-0000-0143

County.: EDGECOMBE

Date Received: 11/20/2023

Agency Response: 12/4/2023

Review Closed: 12/4/2023

DEVON BORGARDT

CLEARINGHOUSE COORDINATOR

DEPT OF NATURAL & CULTURAL RESOURCE

Project Information

Type: National Environmental Policy Act ping

Applicant: Town of Princeville

Project Desc.: Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

As a result of this review the following is submitted:

☐ No Comment ☐ Comments Below ☑ Documents Attached

Reviewed By: DEVON BORGARDT

Date: 12/4/2023

North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary D. Reid Wilson

Office of Archives and History
Deputy Secretary, Darin J. Waters, Ph.D.

December 4, 2023

MEMORANDUM

TO: Kadisha Molyneaux
North Carolina State Clearinghouse
Department of Administration
state.clearinghouse@doa.nc.gov

FROM: Ramona M. Bartos, Deputy
State Historic Preservation Officer
RSL for Ramona M. Bartos

SUBJECT: Construct Mixed Use Development, South Shiloh Farm Road, US 64 Alternate, Princeville, Edgecombe County, SCH # 24-E-0000-0143, ER 19-2343

Thank you for your email of November 20, 2023, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@dncr.nc.gov. In all future communication concerning this project, please cite the above referenced tracking number.

Control No.: 24-E-0000-0143

County.: EDGECOMBE

Date Received: 11/20/2023

Agency Response: 12/4/2023

Review Closed: 12/4/2023

LYN BILES
CLEARINGHOUSE COORDINATOR
DEPT OF ENVIRONMENTAL QUALITY

Project Information

Type: National Environmental Policy Act ping

Applicant: Town of Princeville

Project Desc.: Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

As a result of this review the following is submitted:

☐ No Comment ☐ Comments Below ☑ Documents Attached

Reviewed By: LYN BILES

Date: 12/4/2023

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary

NORTH CAROLINA
Environmental Quality

To: Kadisha Molyneaux
State Clearinghouse
NC Department of Administration

From: Lyn Biles
Division of Environmental Assistance and Customer Service
Washington Regional Office

Re: 24-0143
Scoping - Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.
Edgecombe County

Date: December 4, 2023

The Department of Environment Quality has reviewed the proposal for the referenced project. Based on the information provided, several of our agencies have identified permits that may be required and offered some valuable guidance. The comments are attached for the applicant's review.

The Department will continue to be available to assist the applicant with any questions or concerns.

Thank you for the opportunity to respond.

Attachments

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Raleigh
Project Number: 24-0143 Due Date: 12/4/2023
County: Edgecombe

After review of this project, it has been determined that the DEQ permit(s) and/or approvals indicated may need to be obtained for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (Statutory time limit)
☐	Permit to construct & operate wastewater treatment facilities, non-standard sewer system extensions & sewer systems that do not discharge into state surface waters.	Application 90 days before begins construction or award of construction contracts. On-site inspection may be required. Post-application technical conference usual.	30 days (90 days)
☒	Permit to construct & operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system	Fast-Track Permitting program consists of the submittal of an application and an engineer's certification that the project meets all applicable State rules and Division Minimum Design Criteria.	30 days (N/A)
☐	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begins activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
☐	Water Use Permit	Pre-application technical conference usually necessary.	30 days (N/A)
☐	Well Construction Permit	Complete application must be received, and permit issued prior to the installation of a groundwater monitoring well located on property not owned by the applicant, and for a large capacity (>100,000 gallons per day) water supply well.	7 days (15 days)
☐	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
☐	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.O100 thru 2Q.0300)	Application must be submitted, and permit received prior to construction and operation of the source. If a permit is required in an area without local zoning, then there are additional requirements and timelines (2Q.0113).	90 days
☒	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
☒	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950	Please Note - The Health Hazards Control Unit (HHCU) of the N.C. Department of Health and Human Services, must be notified of plans to demolish a building, including residences for commercial or industrial expansion, even if no asbestos is present in the building.	60 days (90 days)
☒	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres are to be disturbed. Plan must be filed with and approved by applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. A NPDES Construction Stormwater permit (NCG010000) is also usually issued should design features meet minimum requirements. A fee of $100 for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
☐	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		(30 days)
☐	Sedimentation and erosion control must be addressed in accordance with _____ Local Government's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		Based on Local Program
☐	Compliance with 15A NCAC 04B .0125 – Buffers Zones for Trout Waters shall have an undisturbed buffer zone 25 feet wide or of sufficient width to confine visible siltation within the twenty-five percent (25%) of the buffer zone nearest the land-disturbing activity, whichever is greater.		
☐	Compliance with 15A NCAC 2H .0126 - NPDES Stormwater Program which regulates three types of activities: Industrial, Municipal Separate Storm Sewer System & Construction activities that disturb ≥1 acre.		30-60 days (90 days)
☐	Compliance with 15A NCAC 2H 1000 -State Stormwater Permitting Programs regulate site development and post-construction stormwater runoff control. Areas subject to these permit programs include all 20 coastal counties, and various other counties and watersheds throughout the state.		45 days (90 days)

Reviewing Regional Office: Raleigh
Project Number: 24-0143 Due Date: 12/4/2023
County: Edgecombe

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (Statutory time limit)
☐	Mining Permit	On-site inspection usual. Surety bond filed with DEQ Bond amount varies with type mine and number of acres of affected land. Affected area greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
☐	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to prepare plans, inspect construction, and certify construction is according to DEQ approved plans. May also require a permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of $200.00 must accompany the application. An additional processing fee based on a percentage, or the total project cost will be required upon completion.	30 days (60 days)
☐	Oil Refining Facilities	N/A	90-120 days (N/A)
☐	Permit to drill exploratory oil or gas well	File surety bond of $5,000 with DEQ running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to DEQ rules and regulations.	10 days N/A
☐	Geophysical Exploration Permit	Application filed with DEQ at least 10 days prior to issue of permit. Application by letter. No standard application forms.	10 days N/A
☐	State Lakes Construction Permit	Application fee based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property	15-20 days N/A
☒	401 Water Quality Certification	Compliance with the T15A 02H .0500 Certifications are required whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR part 323.	60 days (130 days)
☒	Compliance with Catawba, Goose Creek, Jordan Lake, Randleman, Tar Pamlico or Neuse Riparian Buffer Rules is required. Buffer requirements: http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program		
☐	Nutrient Offset: Loading requirements for nitrogen and phosphorus in the Neuse and Tar-Pamlico River basins, and in the Jordan and Falls Lake watersheds, as part of the nutrient-management strategies in these areas. DWR nutrient offset information: http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information		
☐	CAMA Permit for MAJOR development	$250.00 - $475.00 fee must accompany application	75 days (150 days)
☐	CAMA Permit for MINOR development	$100.00 fee must accompany application	22 days (25 days)
☒	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
☒	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
☒	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq., Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☒	If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☐	Plans and specifications for the construction, expansion, or alteration of the _____ water system must be approved through the _____ delegated plan approval authority. Please contact them at _____ for further information.		

Reviewing Regional Office: Raleigh
Project Number: 24-0143 Due Date: 12/4/2023
County: Edgecombe

Other Comments (attach additional pages as necessary, being certain to comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ		☐	see checked box above	/ /
DWR-WQROS (Aquifer & Surface)	&	☐	It is recommended to schedule a site visit with 401 Water quality staff to discuss the proposal and to ensure compliance will be maintained per 401 surface Water requirements, surface water standards and buffer rules. If wetland, riparian buffers or stream impacts are proposed, this project will need to comply with/secure a 404 permit from the USACE, obtain a 401 Water Quality Certification authorization and a riparian buffer authorization. &	/ /
DWR-PWS		☐	See check box above	/ /
DEMLR (LQ & SW)		☐	If greater than one acre of disturbance is proposed, an approved Sedimentation and Erosion Control will be required prior to any land disturbance.	/ /
DWM – UST	AJD	☒	See Attached	11/27/2023
Other Comments		☐		/ /

REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

☐ **Asheville Regional Office**
2090 U.S. 70 Highway
Swannanoa, NC 28778-8211
Phone: 828-296-4500
Fax: 828-299-7043

☐ **Fayetteville Regional Office**
225 Green Street, Suite 714,
Fayetteville, NC 28301-5043
Phone: 910-433-3300
Fax: 910-486-0707

☐ **Mooresville Regional Office**
610 East Center Avenue, Suite 301,
Mooresville, NC 28115
Phone: 704-663-1699
Fax: 704-663-6040

☐ **Raleigh Regional Office**
3800 Barrett Drive,
Raleigh, NC 27609
Phone: 919-791-4200
Fax: 919-571-4718

☐ **Washington Regional Office**
943 Washington Square Mall,
Washington, NC 27889
Phone: 252-946-6481
Fax: 252-975-3716

☐ **Wilmington Regional Office**
127 Cardinal Drive Ext.,
Wilmington, NC 28405
Phone: 910-796-7215
Fax: 910-350-2004

☐ **Winston-Salem Regional Office**
450 Hanes Mill Road, Suite 300,
Winston-Salem, NC 27105
Phone: 336-776-9800
Fax: 336-776-9797

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

TO: Lyn Biles, Environmental Coordinator

FROM: A. Alfred J Discepolo, Hydrogeologist

THROUGH: Jared Edwards, Acting Regional UST Supervisor

DATE: November 27, 2023

RE: Environmental Review – Project Number 24-0143– Project is for the proposed construction of housing on approximately 53-acres of property located between US-64, US-64 Business Route (Main Street), South Shiloh Farm Road and Lynch Drive in Princeville, Edgecombe County NC.

Review of the Petroleum Underground Storage Tank (UST), and Non-UST Databases does not indicate any petroleum releases within the proposed project area. The following comments are pertinent to my review:

1. The Washington Regional Office (WaRO) UST Section recommends removal of any abandoned or out-of-use petroleum USTs or petroleum above ground storage tanks (ASTs) within the project area. The UST Section should be contacted regarding use of any proposed or on-site petroleum USTs or ASTs. We may be reached at (252) 946-6481.

2. Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, state, and federal regulations. For additional information on petroleum ASTs, it is advisable that the North Carolina Department of Insurance at (919) 661-5880 ext. 239, USEPA (404) 562-8761, local fire department, and Local Building Inspectors be contacted.

3. Any petroleum spills must be contained, and the area of impact must be properly restored. Petroleum spills of significant quantity must be reported to the North Carolina Department of Environmental Quality – Division of Waste Management Underground Storage Tank Section in the Washington Regional Office at (252) 946-6481

4. Any soils excavated during demolition or construction that show evidence of petroleum contamination, such as stained soil, odors, or free product must be reported immediately to the local Fire Marshall to determine whether explosive or inhalation hazards exist. Also, notify the UST Section of the Washington Regional Office at (252) 946-6481. Petroleum contaminated soils must be handled in accordance with all applicable regulations.

5. Any questions or concerns regarding spills from petroleum USTs, ASTs, or vehicles should be directed to the UST Section at (252) 946-6481.

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

MEMORANDUM

TO: Michael Scott, Division Director through Sharon Brinkley

FROM: Amanda Thompson, Environmental Senior Specialist – Solid Waste Section

DATE: December 1, 2023

SUBJECT: Review: SW 24-0143 – Edgecombe County (Scoping – Town of Princeville – Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located along US Hwy. 64 between S. Main St. and S. Shiloh Farm Rd.)

The Division of Waste Management, Solid Waste Section (Section) has reviewed the documents submitted for the subject project in Edgecombe County, NC. Based on the information provided in this document, the Section at this time does not see an adverse impact on the surrounding communities and likewise knows of no situations in the communities which would affect this project.

For any planned or proposed projects, it is recommended that during any land clearing, demolition, and construction, the Town of Princeville and/or its contractors would make every feasible effort to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. **Any waste generated by and of the project that cannot be beneficially reused or recycled as described, may require disposal at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of Princeville require all contractors to provide proof of proper disposal for all generated waste to permitted facilities.**

Permitted solid waste management facilities are listed on the Division of Waste Management, Solid Waste Section portal site at: https://deq.nc.gov/about/divisions/waste-management/waste-management-rules-data/solid-waste-management-annual-reports/solid-waste-permitted-facility-list
And the site locator tool at:
https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=7dd59be2750b40bebebfa49fc383f688

Questions regarding solid waste management for this project should be directed to Mr. Drew Hammonds, Eastern District Supervisor, Solid Waste Section, at (910) 433-3349.

cc: Drew Hammonds, Eastern District Supervisor

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

Date: November 27, 2023

To: Michael Scott, Director
Division of Waste Management

Through: Janet Macdonald
Inactive Hazardous Sites Branch

From: Katie C Tatum
Inactive Hazardous Sites Branch

Subject: NEPA Project # 24-0143 Town of Princeville, Edgecombe County, North Carolina

The Superfund Section has reviewed the proximity of sites under its jurisdiction to the Town of Princeville project. Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.

One (1) Superfund Section sites and no (0) Brownfields Program Sites were identified within one mile of the project as shown on the attached report. The Superfund Section recommends that site files be reviewed to ensure that appropriate precautions are incorporated into any construction activities that encounter potentially contaminated soil or groundwater. Superfund Section files can be viewed at: http://deq.nc.gov/waste-management-laserfiche.

Please contact Janet Macdonald at 919.707.8349 if you have any questions concerning the Superfund Section review portion of this SEPA/NEPA inquiry.

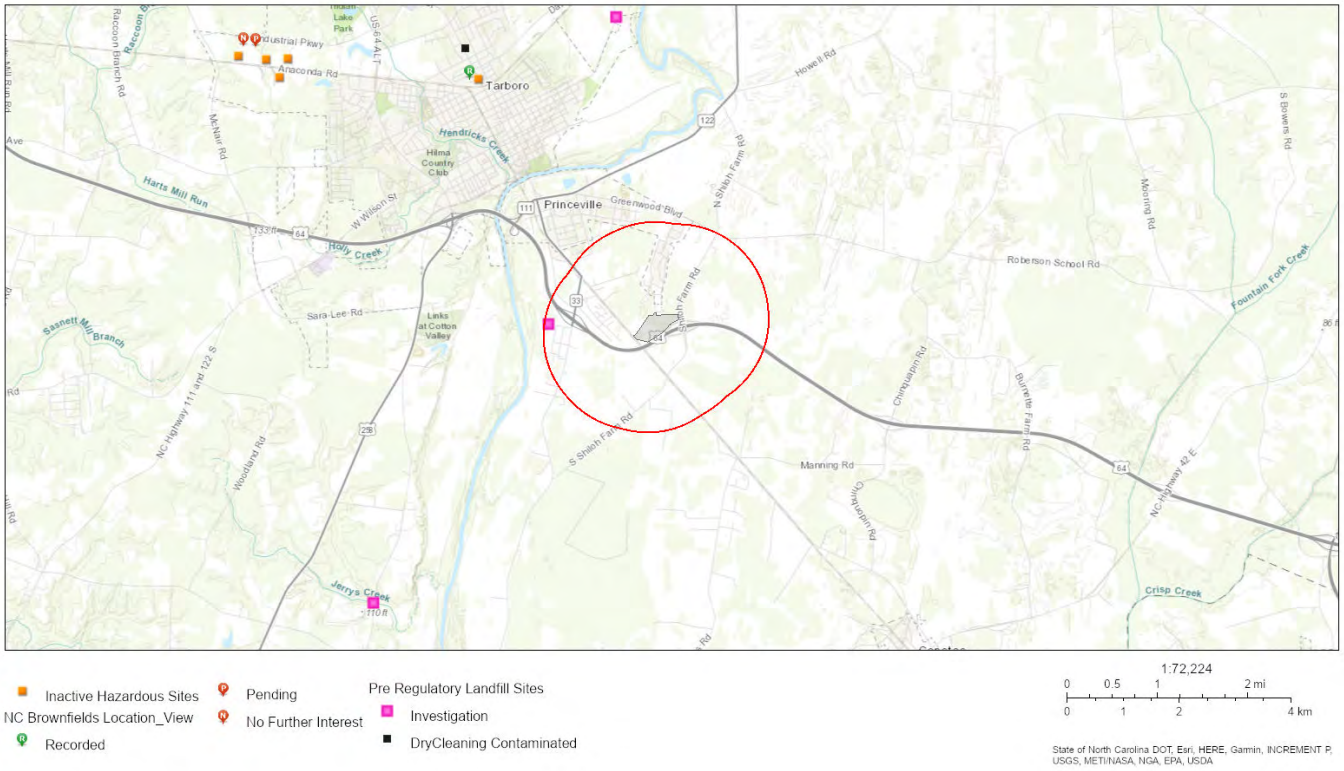
Superfund & Brownfield Sites SEPA/NEPA Review Report

Area of Interest (AOI) Information

Edgecombe County NEPA project 24-0143

Area : 2,878.74 acres

Nov 27 2023 14:01:40 Eastern Standard Time



Superfund and Brownfield Sites
Edgecombe County NEPA project 24-0143

Summary

Name	Count	Area(acres)	Length(mi)
Certified DSCA Sites	0	N/A	N/A
Federal Remediation Branch Sites	0	N/A	N/A
Inactive Hazardous Sites	0	N/A	N/A
Pre-Regulatory Landfill Sites	1	N/A	N/A
Brownfields Program Sites	0	N/A	N/A

Pre-Regulatory Landfill Sites

#	EPAID	SITENAME	Count
1	NONCD0000297	Princeville Dump	1

Department of Environmental Quality
Project Review

Project Number: 24-0143 | **County: Edgecombe** | **Date Received: 11-20-2023**

Due Date: 12-15-2023

Project Description: *Scoping - Proposed project is to implement the Princeville 53-Acre Site Redevelopment Project located at a 53-acre site along U.S. Highway 64 West between S. Main Street (U.S. Highway 64 Alternate East) and S. Shiloh Farm Road; and 1029 Lynch Drive which contains a wetland in Princeville, NC.*

This Project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review	
☐ Asheville	☐ Air	☑ Air Quality	☐ Coastal Management
☑ Fayetteville	☐ DWR	☑ Waste Mgmt	☑ Marine Fisheries
☐ Mooresville	☑ DWR - Public Water	☐ Water Resources Mgmt (Public Water, Planning & Water Quality Program)	☐ CC & PS Div. of Emergency Mgmt
☐ Raleigh	☑ DEMLR (LQ & SW)	☑ DWR-Transportation Unit	☐ DMF-Shellfish Sanitation
☐ Washington	☑ DWM AJ-WaRO		☑ Wildlife Maria
☐ Wilmington			☐ Wildlife/DOT
☐ Winston Salem			

Manager Sign-Off/Region:	Date:	In-House Reviewer/Agency:
	12/1/23	Melodi Deaver, DWM Hazardous Waste

Response (check all applicable)

____ No objection to project as proposed.

____ Insufficient information to complete review

X ____ No Comment

____ Other (specify or attach comments)

SCH Comments on FONSI/ NOI-RROF/Final Notice