



**U.S. Department of Housing and Urban  
Development**

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

### **Project Information**

**Project Name:** Town of St. Pauls Flood Improvements

**Project Location:** South Johnson Street, East Clark Street, South Elizabeth Street and East Ross Street, St. Pauls, Robeson County, NC 28384

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

**Responsible Entity:** North Carolina Office of Recovery and Resiliency (NCORR)

**Grant Recipient:** Town of St. Pauls, 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

### **Direct Comments to:**

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**Project Locations:**

South Johnson Street, East Clark Street, South Elizabeth Street and East Ross Street; *and*  
**Parcel 1** - Calvary Cornerstone Holiness Church, Johnson St. (Parcel ID 381404009, 0.34 acre);  
**Parcel 2** - 400 East Ross Street, St. Pauls, NC 28384 (Parcel ID 38160204101, 1.3 acres);  
**Parcel 3** - 401 East Clark Street, St. Pauls, NC 28384 (Parcel ID 38140401401, 0.17 acre); *and*  
**Parcel 4** - Town of St. Pauls' WWTP, South Elizabeth St. (Parcel ID 212002007, Pin 30890981900, 73.92 acres).

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

The St. Pauls Flood Improvements Project (proposed project) will upgrade stormwater conveyance infrastructure in a southeastern residential area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The proposed project is not anticipated to exceed 1.5 acres of disturbance.

The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in mostly previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours (*see Attachment 1: Proposed Project Location Maps, Robeson County Parcel Information, and Site Plans*). All improvements will employ mitigation and resiliency measures to prevent destruction or non-operability of the improvements after their installation. Easements will be required along the proposed pipe route, as well as an encroachment agreement from NCDOT.

Current proposed designs begin with the replacement of an existing, undersized stormwater catch basin with a 6'x6'x6' concrete box basin located on the Calvary Cornerstone Holiness Church owned parcel (34°48'11.9"N 78°58'05.9"W). The replacement catch basin will collect stormwater flowing from South Elizabeth and South Johnson Streets. The catch basin will be capable of collecting stormwater in excess of a 100-year rainfall event, with a capacity of 1,540 gallons. Water levels within the catch basin will be regulated through the use of a submerged pump, which will maintain low levels in the basin. In the event of an overflow of stormwater reaching, or a backflow from connecting infrastructure, the catch basin will be equipped with a flow meter and an overflow alarm to alert Public Works personnel of such an event. The catch basin will be attached to an underground, 48" RCP that extends from the catch basin in an easterly direction for 101 linear feet (LF) towards South Johnston Street then connects to a south-running 48" RCP. A cast metal grate will be installed at the connection to allow for street runoff to flow directly into the culvert piping. At this point, the RCP will extend 32 LF south where an existing 12" RCP will be replaced extending across the street in an easterly direction. This culvert, which will connect to the 48" RCP, will drain to a proposed swale on the east side of South Johnson Street, which will act as a drainage area for the properties on the eastern side of the street. Additionally, at the point where the 48" RCP junctions with the 12" RCP, a cast metal grate will be installed at the



connection to catch additional stormwater occurring on the street surface. At this point, and throughout the remaining distance of the piping to its outlet at the south outlet of East Ross Street, the piping will be capable of conveying up to 39,630.3 gallons per minute (gpm) of stormwater, at 7.03 feet per second (fps).

The RCP will continue from the last measurement, south 104 LF where a new 15" RCP will be replaced extending across South Johnson Street in an easterly direction, the 48" RCP will continue 178 LF to a new cast metal grate, extend 162 LF to another large grate and maintenance access in East Clark Street and continue 14 LF to another cast metal grate. The 48" RCP will turn to extend east near the East Clark Street centerline at the intersection with South Johnson Street and continue 102 LF to a new cast metal grate then south 20 LF to a new cast metal grate on a non-contiguous stretch of South Johnson Street. The two cast metal grates will be placed at the intersection of East Clark Street and South Johnson Street, at 45-degree angles to the intersection for stormwater collection.

The 48" RCP will extend south 263 LF in the west right-of-way of South Johnson Street. The RCP will continue easterly 27 LF across South Johnson Street to a cast metal grate then extend south across East Stack Street with 41 LF of RCP interrupted with a maintenance access descending vertically to an opening to the pipe which will connect to a 15" RCP being replaced to the nearest joint, then continue 329 LF south along the eastern side of South Johnson Street and includes removal of an existing 15" RCP and a cast metal grate at 162 LF. South Johnson Street terminates at its intersection with East Ross Street, where the existing 15" RCP will be replaced to nearest joint and connect to the maintenance access, then the RCP will make a 90 degree turn to the west. The 48" RCP will extend 30 LF along East Ross Street with an existing 15" RCP to be removed before another a cast metal grate. The RCP will extend 80 LF to a cast metal grate then make a 90 degree turn to the south, and extend 47 LF with an existing 15" RCP to be removed, then a maintenance access and another cast metal grate, then a 6" CPP extension and maintenance access where the RCP connects to two 36" RCPs for 244 LF ending in a culvert outlet armored with 18-inch Class B riprap apron. The southernmost portion of the proposed project includes an existing 24" RCP to be removed and replaced with 26 LF of two 24" RCPs which will cross south underneath the Town's WWTP Access Road, where stormwater will then exit the piping system to a culvert outlet armored with 18-inch Class B riprap apron and convey into Big Marsh Swamp on the Town of St. Pauls' WWTP parcel. It will be necessary to avoid existing natural gas lines, and sanitary sewer and water infrastructure during the excavation. The proposed project designs include revisions to minimize impacts to wetlands. *See Attachment 1: Site Plans* for exact design details.

#### **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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders and damages to at least seven homes and the Calvary Cornerstone Holiness Church. The proposed project is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a

natural bowl with overland outlets for stormwater. The proposed project entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of RCP, buried underground in mostly previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours. According to the Project Information Form (PIF) dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during storm events. The PIF also states that “[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards.”

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

The Town is experiencing frequent flooding problems in an area located between Johnson Street and South Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. The Subject Property consists of a church, residential neighborhood, and the Town of St. Pauls’ waste water treatment plant (WWTP) parcel. This area experienced substantial flooding during Hurricane Matthew in 2016, resulting in damages to at least seven homes and the Calvary Cornerstone Holiness Church. The area has two small private pump stations that currently remove water during small rain events, but are not adequately sized for larger events and do not have backup power. The Town is considering this proposed project that consists of constructing a new storm drain system to improve drainage in this area and reduce the potential for flooding during future storm events. Approximately 1,842 LF of storm drain piping is anticipated to be required to route the water to an outlet near the Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp.

**Funding Information**

Grant Number	HUD Program	Funding Amount
B-18-DP-37-0001	CDBG-MIT	\$451,500.00

**Estimated Total HUD Funded Amount:** \$451,500.00

**This project anticipates the use of funds or assistance from another agency in addition to HUD in the form of:** \$350,000.00 (Golden Leaf Foundation)

**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:** \$801,500.00

**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.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes   No <input type="checkbox"/> <input checked="" type="checkbox"/>	Based on guidance provided by HUD Fact Sheet #D1, the National Plan of Integrated Airport Systems (NPIAS) was reviewed for 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.  <b>Attachment 2:</b> NEPAAssist Maps with 15,000-foot Buffer Showing Airports
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier	Yes   No <input type="checkbox"/> <input checked="" type="checkbox"/>	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 Coastal Barrier Resource System Unit or

Improvement Act of 1990 [16 USC 3501]		<p>Otherwise Protected Area (OPA). No additional review is required.</p> <p><b>Attachment 3:</b> USFWS CBRS Map and Certification</p>
<p><b>Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panels 3720030800J and 3720030600J, both effective on 1/19/2005, the Subject Property is mostly located in Zone X. The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain (Zone AE), approximately 49.37 acres. The impacts to 100-year floodplain include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. 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.</p> <p>While some proposed project activities occur in areas identified as 100-year floodplain (Zone AE), flood insurance is not required for the proposed project. This proposed project's floodplain activities involve the installation of RCPs and riprap apron for stormwater infrastructure improvement. The proposed project does not include an insurable structure according to the NFIP Flood Insurance Manual effective October 1, 2022.</p> <p><b>Attachment 4:</b> FEMA FIRMettes with Parcels' Boundaries</p>
<p><b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</b></p>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project is located in Robeson County, which is listed as a current attainment status county for all criteria pollutants according to the EPA Green Book. This stormwater infrastructure improvement project is exempted from NC State air quality permit requirements</p>

		<p>under 15A NCAC 02Q.0102(d) since emissions will 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)).</p> <p>The proposed project is a stormwater infrastructure improvement project. The proposed project will not generate additional levels of vehicular traffic; therefore, no exceedances of the National Ambient Air Quality Standard (NAAQS) associated with carbon monoxide (CO) or particulate matter (PM) is anticipated to occur. The proposed project will not result in siting any new source of air pollutants.</p> <p>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 applicable Best Management Practices (BMPs) to reduce fugitive dust generation and diesel emissions. BMPs for construction projects 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.</p>
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		<p>Radon is not considered a risk for this proposed project since the proposed project does not involve enclosed structures with indoor air quality concerns and Robeson County is a Level 3 Radon Zone with predicted average indoor radon screening levels less than 2 pCi/L (Low Potential) according to the U.S. Environmental Protection Agency (EPA) (<i>see Attachment 5</i>). No additional steps are required for radon testing and mitigation.</p> <p>Therefore, there will be no significant impact to air quality from the proposed project. Following the completion of construction activities, the proposed project will not increase emissions as a stormwater infrastructure system. Any air quality impacts would be short-term and localized during construction, and no significant adverse impacts to air quality are anticipated. Thus, the proposed project is in compliance with this section.</p> <p><b>Attachment 5:</b> NC Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants (EPA Green Book) and EPA NC Radon Level Map</p> <p><i>See also, Recent Updates: Federal Register Notices Published or Effective After June 30, 2023   Green Book   US EPA online.</i></p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Subject Property is located in Robeson County which is not one of the 20 coastal counties included in the North Carolina Coastal Management Program. A Consistency Determination is <i>not</i> 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.</p> <p><b>Attachment 6:</b> NC DCM Counties List and Map</p>

<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>A site inspection was conducted at the Subject Property and no nuisances and hazards were identified. The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development. According to NEPAassist, the Subject Property is not identified on a list of Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List, or equivalent State list compiled by the U.S. EPA. A review of the U.S. EPA Facilities Database provides no indication of past uses of the Subject Property that could have contaminated the Subject Property or could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.</p> <p>According to NEPAassist, there are no air emission facilities or federal Superfund sites located within a one-mile radius search of the Subject Property. According to NEPAassist, there is one Brownfield site, <i>Mcmillan Shuler Oil</i> located within a one-mile radius search of the Subject Property. According to NEPAassist, there is one TRI facility, <i>The Manning Corp.</i>, located within a one-mile radius search of the Subject Property. According to NEPAassist, the <i>Town of St. Pauls Waste Water Treatment Plant</i> is identified as the only Water Discharger (NPDES) located within a one-mile radius search of the Subject Property. The WWTP is permitted and has been in noncompliance with Clean Water Act for Mercury, Nitrogen-ammonia, and Flow in conduit or through treatment plant. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply or contribute to waste water in the area and the location of proposed disturbance. According to NEPAassist, there are seven RCRA Hazardous Waste Facilities located within a one-mile radius search of the Subject Property. These sites have been evaluated in the HUD Environmental Standards Review and the EPA facility reports and DWM records are in <b>Attachment 7</b>. It was</p>
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	<p>determined after review that no hazards are present in the EPA records review that would pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.</p> <p>According to NC DEQ DWM comments, no Superfund Section sites were identified within one mile of the project (<i>See Attachment 20</i>). Also, according to the NC DEQ DWM comments, there are no Certified DSCA Sites, Federal Remediation Branch Sites, Inactive Hazardous Sites, Pre-regulatory Landfill Sites, or Brownfields Program Sites located within a one-mile radius search of the Subject Property (<i>See Attachment 20</i>). There are two Permitted Solid Waste Landfills located within a one-mile radius search of the Subject Property. The <i>78A-DEMO-1980</i> Permitted Solid Waste Landfill and Land Clearing and Inert Debris (LCID) Notification for <i>St. Pauls Demolition Site #78A</i> is identified on the Town of St. Pauls' WWTP parcel. The proposed project activities will not disturb this portion of the site but rather is focused on the culvert replacement area under the WWTP Access Road and south of East Ross Street alongside a residential parcel on the northern boundary of the parcel. The other sanitary landfill (demolition-landscape) site is the <i>Fields Site-James Fields Demolition Landfill</i> located west of the WWTP parcel. This site was closed in 1993 with permit conditions and operational requirements followed and noted as having no violations and no wastes received in one year. The <i>Fields Site</i> is located approximately 0.58-mile from the Subject Property. Overall, these facilities would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply and the location of proposed disturbance.</p> <p>The Dry Cleaners, Underground Storage Tank (UST) Incidents, Land Use Restriction and/or Notices and UST Active Facilities sites have been evaluated in the HUD Environmental Standards Review and the facility reports and DWM records are in <b>Attachment 7</b>. It was determined after review that no hazards are present in the NC DEQ</p>
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		<p>DWM records that would pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.</p> <p>In the event that unexpected, contaminated materials or debris are encountered during construction, work in the area shall cease immediately, and the work area shall be secured. The appropriate NCDEQ 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, etc.), and, if removed, will be properly disposed of in the appropriate facility approved by the NC DEQ DWM Solid Waste Section. Notification of the proper regional office is requested if "orphan" USTs are discovered during any excavation operation (<b>Attachment 20</b>).</p> <p>Based on a site visit and review of available environmental and historical records for the Subject Property and surrounding area, 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 I Environmental Site Assessment (ESA) or Phase II Investigation is not warranted.</p> <p><b>Attachment 7:</b> HUD Environmental Standards Review, NEPA Assist EPA Facilities Reports with 1-mile and 0.5-mile Buffers, NC DEQ DWM Site Locator Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, Site Inspection Documentation, and Historic Aerials. <i>See also, Attachment 20:</i> State Environmental Clearinghouse Comments from NC DEQ (SCH) Comments.</p>
<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>The USFWS Information for Planning and Consultation (IPaC) Official Species List identified a total of five threatened, endangered, or candidate species and three migratory Birds of Conservation Concern (BCC) as species with the potential to occur within the vicinity of the</p>

	<p>proposed project site. The five proposed, threatened, endangered, or candidate species include the: 1) Tricolored Bat (<i>Perimyotis subflavus</i>), 2) Red-cockaded Woodpecker (<i>Picoides borealis</i>), 3) American Alligator (<i>Alligator mississippiensis</i>), 4) Monarch Butterfly (<i>Danaus plexippus</i>), and 5) Michaux's Sumac (<i>Rhus michauxii</i>). The three migratory BCC include the 1) Chimney Swift (<i>Chaetura pelagica</i>), 2) Prothonotary Warbler (<i>Protonotaria citrea</i>), and 3) Red-headed Woodpecker (<i>Melanerpes erythrocephalus</i>).</p> <p>The NC Natural Heritage Program (NHP) database query report identified one State-listed species (Blackbanded Sunfish, <i>Enneacanthus chaetodon</i>) within the proposed project area, and five State-listed species within one-mile of the proposed project area including two dragonfly or damselfly species, one freshwater fish and two vascular plants (Coppery Emerald, <i>Somatochlora georgiana</i>; Phantom Darner, <i>Triacanthagyna trifida</i>; Blackbanded Sunfish, <i>Enneacanthus chaetodon</i>; Georgia Indigo-bush, <i>Amorpha georgiana</i>; and Carolina Sunrose, <i>Crocantemum Carolinianum</i>). However, based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the proposed project area.</p> <p>The NC NHP was consulted for additional information on the Tricolored Bat which is proposed for listing and uses culverts year-round for habitat. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, “[t]here are no documented Tricolored Bat maternity roost trees within 150 feet of this project boundary. There are no documented Tricolored Bat hibernacula within 0.25 mile of this project boundary. Individuals of this species have been mist-net captured approximately <i>20 miles</i> to the southeast of this project boundary (emphasis added).” Since the Tricolored Bat is estimated to be present approximately 20 miles from the proposed project site, a determination of “No Effect” has been made for this proposed species.</p>
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		<p>None of the above-listed species or potential habitat were observed during the site visits. According to McGill Associates, PA (McGill), Threatened and Endangered (T&amp;E) Species surveys to observe biological habitats and determine the likely occurrence of protected (threatened/ endangered), candidate, and proposed species within the proposed project area and site visits were completed. There was no suitable habitat found within the Limits of Disturbance (LOD). The majority of the proposed project activities (disturbance) will take place in and along residential streets and at existing culverts. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed and any migratory birds in the area will temporarily leave the area during construction. Therefore, a <b>No Effect</b> determination has been made for all of the above-listed species and a “no Eagle Act permit required” determination for eagles. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on March 21, 2023. According to the Self-certification Letter, Mr. Pete Benjamin, Field Supervisor of the USFWS Raleigh FO, indicated the following:</p> <p>“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. <b>The Subrecipient will update this determination annually for multi-year activities.</b></p> <p>According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet</p>
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	<p>from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. <b>See Attachment 8</b> for full details. Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.</p> <p>The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: U.S. Army Corps of Engineers Clean Water Act (CWA) Section 404 Nationwide Permit 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the environmental review record (ERR) when received from the permitting agencies.</p>
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		<p><b>Attachment 8:</b> USFWS Raleigh FO 10-step Project Review Package, USFWS and NCORR Correspondence, and SCH Comments from NCWRC</p> <p><i>See also,</i>  <a href="https://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf">https://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf</a></p>
<p><b>Explosive and Flammable Hazards</b></p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project does not involve the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries). The proposed project is a stormwater infrastructure improvement project which does not involve development or construction that will be used by people, a rehabilitation/ modernization project that will increase the number of people using a structure or increase residential densities, a rehabilitation/ modernization project that will make a vacant building habitable or land use conversion. Based on the proposed project description, there are no proposed activities that would require further evaluation under 24 CFR Part 51 Subpart C. The proposed project is in compliance with explosive and flammable hazard requirements.</p>
<p><b>Farmlands Protection</b></p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project areas containing <i>Farmland of statewide importance</i> and <i>All areas are prime farmland</i> are identified as “<i>Land with a ‘tint overprint’ on the USGS topographical map</i>” and, thus, not subject to provisions of the Farmland Protection Policy Act (FPPA) according to the FPPA Manual, Subpart B – Program Activities and Requirements, Section 523.10(B)(3) - Lands Not Subject to Provisions of FPPA. The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development.</p> <p>The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey Soil groups for the Subject Property included from north to south: <b>NoA</b> - Norfolk loamy sand, 0 to 2 percent slopes (<i>Church parcel - All areas are prime farmland</i>),</p>

		<p><b>WaB</b> - Wagram loamy sand, 0 to 6 percent slopes (<i>north of E. Clark St. - <b>Farmland of statewide importance</b></i>), <b>WkB</b> - Wakulla sand, 0 to 6 percent slopes (<i>E. Clark St. to E. Ross St. - <b>Not prime farmland</b></i>), and <b>JT</b> - Johnston soils (<i>St. Pauls' WWTP parcel - <b>Not prime farmland</b></i>). Thus, the proposed project areas located from approximately E. Clark Street to the St. Pauls' WWTP parcel are not considered "important farmlands" subject to FPPA according to the FPPA Manual, Subpart B – Program Activities and Requirements, Section 523.10(A) - Lands Subject to Provisions of FPPA.</p> <p>The proposed project does not involve the conversion of farmland to nonagricultural use because the proposed project areas with important farmlands under FPPA are densely built-up areas according to USGS and excluded from the FPPA. Therefore, the proposed project is in compliance with the FPPA and no further review is required.</p> <p><b>Attachment 9:</b> USGS Topographical Map, USGS Topographic Map Symbols Guide, and USDA NRCS Web Soil Survey</p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>Based on the FEMA FIRM panels 3720030800J and 3720030600J, both effective on 1/19/2005, the Subject Property is mostly located in Zone X. The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain (Zone AE), approximately 49.37 acres. A 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.</p> <p>The proposed project will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The impacts to 100-year floodplain include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed project will be completed in accordance with all applicable federal, State, and local laws,</p>

		<p>regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and added to the ERR when received from the permitting agencies. BMPs for erosion and sedimentation control will be utilized during construction such as timber mats and silt fencing. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Thus, measures will be implemented to ensure the proposed project will have no further impacts to natural floodplains during construction and operation as a stormwater infrastructure system. The 8-step EO 11988 Floodplain Management Determination was completed pursuant to 24 CFR 55.20 and is included in <b>Attachment 10</b>.</p> <p><b>Attachment 10:</b> EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination</p>
<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>According to the National Register of Historic Places (NRHP), NC HPOWEB, and site inspection, there are 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 located on or adjacent to the Subject Property.</p> <p>The North Carolina State Historic Preservation Office (NC SHPO) was consulted for a</p>

		<p>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 April 13, 2022 and the NC SHPO responded on July 3, 2023 and June 2, 2022 that “[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.”</p> <p>According to the HUD Tribal Directory Assessment Tool (TDAT), the Catawba Indian Nation is the only federally-recognized Tribe with interests in Robeson County, North Carolina. NCORR consulted with the Catawba Indian Nation for discussion of historic properties in the proposed project area that may have religious and cultural significance. On May 13, 2022, the Catawba Indian Nation’s Tribal Historic Preservation Office (THPO) responded that “[t]he 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. <b>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.</b>”</p> <p>On July 12, 2023, NCORR Director, Ms. Laura Hogshead, sent a notification letter for the proposed project to the Lumbee Tribe of North Carolina Chairman John Lowery. A response has not been received but will be included in the ERR when received.</p> <p><b>Attachment 11:</b> SHPO Response, NCORR SHPO Submission Package, TDAT Results, Catawba Indian Nation Response, NCORR Catawba Indian Nation Submission Packages, and Lumbee Tribe of NC Proposed Project Notification Letter</p>
Noise Abatement and Control	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The proposed project is not a noise-sensitive use. The proposed project does not involve new construction for residential use or rehabilitation of</p>



<p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>		<p>an existing residential property. Rather, the proposed project provides timely emergency assistance under disaster assistance provisions or appropriations which are provided to save lives, <i>protect property, protect public health and safety</i>, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster. Thus, 24 CFR Part 51 Subpart B does not apply to this stormwater infrastructure improvement project.</p> <p>The proposed project activities are not expected to generate excessive noise during the short-term construction work or long-term operation. Short-term construction noise will be limited to daytime hours. Construction equipment will be required to meet local sound control requirements. 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 significant adverse noise impacts. The proposed project is in compliance with this section.</p>
<p><b>Sole Source Aquifers</b></p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>No sole source aquifers are located in North Carolina according to the U.S. EPA. No further action is required. The proposed project is in compliance with this section.</p> <p><b>Attachment 12:</b> U.S. EPA Sole Source Aquifers Map</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>Based on the U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Permit Verification and Jurisdictional Determination (JD), the proposed project has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's Section 404. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP parcel. According to the USFWS National Wetland Inventory (NWI) Map, there is a former 0.40-acre Freshwater Pond habitat classified as PUBFh located on the Calvary Cornerstone Holiness Church parcel (34°48'11.9"N 78°58'05.9"W). However, according to the USFWS NWI Coordinator, "[a]fter reviewing</p>

	<p>current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present.” The St. Paul’s WWTP parcel is the only proposed location with portions in wetlands, approximately 62.2 acres. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. Thus, the EO 11990 Protection of Wetlands Determination focuses only on the Big Marsh Swamp wetland.</p> <p>The proposed project will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of NWI-mapped and USACE verified delineated wetlands. These impacts to wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls’ WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The proposed permanent impacts total approximately 0.0686 acres resulting from the 18-inch Class B riprap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert</p>
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		<p>outlet. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. The proposed project was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp which is heavily vegetated and contains areas of standing water that should prevent significant erosion.</p> <p>The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources (DWR) CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed project will have no further impacts to wetlands during construction and operation as a stormwater infrastructure system. The 8-step EO 11990 Protection of Wetlands Determination was completed pursuant to 24 CFR 55.20 and is included in <b>Attachment 10</b>.</p> <p><b>Attachment 10:</b> EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination. <i>See Attachment 1:</i> Erosion Control Plans</p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project will not affect a Wild and Scenic River (WSR) or National Park Service (NPS) Nationwide River Inventory (NRI) river. According to the NEPAassist Map, there are no listed river segments located within one mile of the Subject Property. According to the NRI Map, the Little Marsh Swamp is the only listed river located near the Subject Property and is noted for Outstandingly Remarkable Value for Fish, Recreational, Scenic, and Wildlife. The Little Marsh Swamp is located approximately 2.45</p>

		<p>miles from the Subject Property. Thus, there are no impacts anticipated from the proposed project on a WSR or NRI river. The proposed project is in compliance with this section.</p> <p><b>Attachment 13:</b> NEPA Assist Maps of DOI NPS Nationwide Rivers Inventory and National Wild and Scenic Rivers System Showing 1-mile and 2.45-mile Buffers from Proposed Project Site</p> <p><i>See also, Eligible and Suitable Rivers Map, at <a href="https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=df0f4455dc5f41bb919a3a1a49c60174">https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=df0f4455dc5f41bb919a3a1a49c60174</a></i></p>
<b>ENVIRONMENTAL JUSTICE</b>		
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>According to the EJSCREEN Standard Report for a one-mile radius of the Subject Property, the population is identified as approximately 64% minority and approximately 58% low-income, 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 Potentially Underserved Block Groups 2019.</p> <p>The proposed project will not subject the community to environmental conditions that may have disproportional effects on low-income or minority populations. Rather, the proposed project aims to reduce flooding in the area, safeguard infrastructure and public and private properties, reduce vulnerability, and enhance emergency response operations during and after future storm events. Thus, the proposed project does not contribute to or promote environmental injustice.</p> <p><b>Attachment 14:</b> EJSCREEN Standard Report, EJSCREEN ACS Summary Report, EJSCREEN Census 2010 Summary Report, EJSCREEN Community Report, NC DEQ Community Mapping System Map, and CDC Report for Robeson County</p>

**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
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>According to the Vision Statement on the Town's website (<a href="https://www.stpaulsnc.gov/government">https://www.stpaulsnc.gov/government</a>), the "Town of St. Pauls will be: [a]n attractive Town, where downtown buildings and infrastructure are integrated and appealing, and is pedestrian-friendly. An economically revitalized and sound central location, supported by a good transportation system and a well-educated and highly-qualified workforce." According to the PIF dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that "[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards."</p> <p>According to the Town's Official Zoning Map, the Calvary Cornerstone Holiness Church parcel and all parcels along the west side of South Johnson Street and parcels south of East Clark Street to south of East Ross Street, including a small northwestern portion of the Town's WWTP parcel are <b>Residential 8</b>; 401 East Clark Street and all parcels along the east side of South Johnson Street are <b>Residential 10</b>; and the remaining portions of the Town's WWTP parcel are <b>Residential Agricultural 20</b> and <b>Industrial</b>. No changes to zoning classification or land use is required for the proposed project. The majority of the proposed project activities will take place in</p>

		<p>and along residential streets and at existing culverts. Short-term construction will result in sections of the involved streets to be closed periodically during the construction. Access to homes in the area will not be restricted given multiple ingress and egress routes through the neighborhood in which the improvements are being placed. Street use will be restored as sections of piping are installed and covered with soil stockpiles, gravel sub-base, and base and finish coats of asphalt. The long-term benefit of reduced flooding of roadways and yards and prevention of property damage to homes, churches and businesses during future storm events outweighs any short-term construction inconvenience. The proposed project is in conformance with the Town's zoning and will benefit the community.</p> <p><b>Attachment 15:</b> Zoning Maps and Town Board Workshop Meeting Notes, September 30, 2019</p>
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>An USDA NRCS soil survey was prepared and is in <b>Attachment 9</b> for the Subject Property. The Subject Property's soils include from north to south: <b>NoA</b> - Norfolk loamy sand, 0 to 2 percent slopes (<i>Church parcel - All areas are prime farmland</i>), <b>WaB</b> - Wagram loamy sand, 0 to 6 percent slopes (<i>north of E. Clark St. - Farmland of statewide importance</i>), <b>WkB</b> - Wakulla sand, 0 to 6 percent slopes (<i>E. Clark St. to E. Ross St. - Not prime farmland</i>), and <b>JT</b> - Johnston soils (<i>St. Pauls' WWTP parcel - Not prime farmland</i>). The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development. Construction of the proposed improvements will involve the utilization of heavy equipment. It is anticipated that the construction will include the use of excavators, backhoes, track hoes, medium-capacity cranes, equipment transport trucks, dump trucks, bulldozers, jackhammers, powered-tampers, concrete trucks, and asphalt-laying equipment. The work will most likely proceed from the northernmost point of the project (installation of catch basin at Church lot) with concurrent asphalt removal in the affected Town streets. Excavation, grading, and installation of pipe sections will proceed following initial excavation and will require sections of the involved streets to be closed periodically during the construction.</p> <p>If fill material is required, it will come from an approved source that has an action erosion control permit (per NC Regulations) and the soils will be tested by the geotechnical engineer prior to importing the material to ensure that it meets project requirements. The proposed project will be designed in a way to balance the grading and not require any off-site material, if possible. No soil removal is planned. However, should soil need</p>

		<p>to be removed from the site, it will be quantified and only exported to an approved site per NC requirements.</p> <p>The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. All silt and sedimentation standards will be observed so as to prevent of escape of soils from the project sites into adjacent residential areas and wetlands. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. The proposed project was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp which is heavily vegetated and contains areas of standing water that should prevent significant erosion. Therefore, the proposed project is not expected to adversely impact Soil Suitability/ Slope/ Erosion/ Drainage/ Stormwater Runoff at the Subject Property. <b>See Attachment 8 and Attachment 10</b> for further discussion on erosion and sedimentation mitigation measures.</p> <p><b>See Attachment 1:</b> Erosion Control Plans, <b>Attachment 8:</b> Endangered Species documentation, <b>Attachment 9:</b> USDA NRCS Web Soil Survey, <b>Attachment 10:</b> EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination, and <b>Attachment 20:</b> State Environmental Clearinghouse Comments</p>
Hazards and Nuisances including Site Safety and Noise	2	Based on a site visit and review of available environmental and historical records for the Subject Property and surrounding area, 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.

In the event that unexpected, contaminated materials or debris are encountered during construction, work in the area shall cease immediately, and the work area shall be secured. The appropriate NCDEQ 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, etc.), and, if removed, will be properly disposed of in the appropriate facility approved by the Section. Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation (**Attachment 20**).

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, as applicable. The proposed project will conform to NC Air Quality Management regulations during and following construction. The contractor will use practicable 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 construction vehicles and machinery will operate 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. (*See Clean Air Act section.*)

The proposed project activities are not expected to generate excessive noise during the short-term construction work or long-term operation. Short-term construction noise will be limited to daytime hours. Construction equipment will be required to meet local sound control requirements. 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 significant adverse noise impacts.

*See Attachment 7:* Contamination and Toxics documentation and **Attachment 20:** State Environmental Clearinghouse Comments



Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	There will be a temporary increase in jobs associated with the proposed project's construction activities. The proposed project will not adversely affect employment opportunities or income patterns and is unlikely to impact traffic and potential customer access to residences and businesses in the area, either during construction or operation. Rather, the proposed project would decrease the vulnerability of the surrounding community through the proposed stormwater infrastructure improvements. Therefore, the proposed project is not expected to adversely impact employment and income patterns for the local community.
Demographic Character Changes, Displacement	1	The proposed project will not cause any change in the demographic character of the area. The proposed project will not involve residential or commercial development activities. 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 will 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. Instead, this project entails mitigation measures which will protect residential homes and prevent possible displacement of residents that might occur if the drainage issues and flooding were allowed to continue unmitigated.
Environmental Justice Impacts	2	<p>According to the EJSCREEN Standard Report for a one-mile radius of the Subject Property, there is an approximately 64% minority population and 58% 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 Potentially Underserved Block Groups 2019.</p> <p>Several of the EJSCREEN pollution and sources indicators for a one-mile radius of the Subject Property are the same or slightly higher than the State and/or U.S. averages and include Air Toxics Cancer Risk (80-90th% in U.S.), Air Toxics Respiratory Hazard Index (80-90th% in U.S), Lead Paint (56% in U.S), Wastewater Discharge (16% in NC) and USTs (73-79% in NC). According to the EPA Green Book, the Subject Property is not located in a county in nonattainment or maintenance status for any criteria pollutants. Based on a site visit and review of available environmental and historical records for the Subject Property and surrounding area, 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</p>

		<p>occupants or conflict with the intended utilization of the Subject Property.</p> <p>No adverse environmental impacts were identified during the proposed project's 24 CFR 58 environmental review. The proposed project will not subject the community to environmental conditions that may have disproportional effects on low-income or minority populations. The proposed project does not site a nuisance or hazard in a potential environmental justice area. Rather, this stormwater infrastructure improvement project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The mitigation of future flooding is essential for the safety of residents and property in the Town of St. Pauls. Thus, the proposed project does not contribute to or promote environmental injustice.</p> <p><b>Attachment 14:</b> EJSCREEN Standard Report, EJSCREEN ACS Summary Reports, EJSCREEN Census 2010 Summary Reports, EJSCREEN Community Report, NC DEQ Community Mapping System Map, and CDC Report for Robeson County; <b>Attachment 7:</b> Contamination and Toxics documentation; and <b>Attachment 20:</b> State Environmental Clearinghouse Comments</p>
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	<p>Saint Pauls Elementary School, Saint Pauls Middle School, Saint Pauls High School are located within one mile of the Subject Property. The proposed project will not introduce any new populations that would increase student enrollment in the district or usage of cultural facilities. Thus, the proposed project would not have an adverse impact on educational or cultural facilities. Rather, the proposed project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing easier transportation during and after storm events. Therefore, the proposed project is not expected to adversely impact educational and cultural facilities.</p> <p><b>Attachment 16:</b> Educational Facilities documentation</p>
Commercial Facilities	1	<p>There are multiple businesses including the Fresh Foods IGA, His &amp; Hers Total Look, Norman Showcase Academy, Aguilar's Landscaping &amp; Concrete, and Family Dollar, and restaurants including Zachary's Restaurant, Fergusons Grocery &amp; Lunch, Pauline's Place, and China King located near the Subject Property. The proposed project will not introduce new populations through a residential development or otherwise increase demand for retail services or other commercial</p>

		<p>facilities. Rather, this stormwater infrastructure improvement project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. According to the PIF dated September 28, 2020, “[a]s the Town of St. Pauls has enjoyed economic development success and added over 1,300 new jobs to its local economy, every single house is needed to allow the growth to occur in St. Pauls. Thus, the proposed project will have minor beneficial effects on the local business community and their customers and employees by improving transportation accessibility, safeguarding infrastructure, and enhancing emergency response operations during and after severe storm events.</p> <p><b>Attachment 17:</b> Commercial Facilities documentation</p>
Health Care and Social Services	2	<p>According to the Town website, the Town of St. Pauls has two medical doctors, two physician assistants (P.A.), one chiropractor, one dental office, one optometrist, one dialysis clinic, and four drugstores. Hospital facilities are provided in Lumberton, 11 miles away at Southeastern Regional Medical Center (SRMC). SRMC has a medical staff of 60 physicians, provides health care services which include: Carolina Manor Treatment Center, HealthHorizons Home Health Agency, Hospice of Robeson, HealthHorizons Uniforms and Medical Supplies, Woodhaven - a 116 bed long-term care facility, and SRMC Lifestyle Fitness Center. The Town of St. Pauls is also served by Cape Fear Hospital Systems in Fayetteville. (See <a href="https://www.stpaulsnc.gov/communityinformation">https://www.stpaulsnc.gov/communityinformation</a>)</p> <p>The proposed project will not introduce any new development that would increase the demand for routine or emergency health services. Rather, the proposed project aims to help provide better access for routine and emergency health care/ social services to and from the local community during and after future storm events. Thus, the proposed project will have some beneficial effects on accessibility to local health care and social services.</p> <p><b>Attachment 18:</b> Health Care and Social Services documentation</p>
Solid Waste Disposal / Recycling	2	<p>According to the Town’s website, recycling was recently added to residential curb-side pickup service. The proposed project will not introduce new development that would generate solid wastes on an ongoing basis.</p> <p>All construction wastes will be appropriately disposed of according to the type of waste generated and construction waste management practices in an appropriate, legally compliant receiving facility. The NC DEQ DWM Solid Waste Section</p>

		<p>(Section) commented that “for any planned or proposed projects, it is recommended that during any land clearing, demolition and construction, the Town of St. Pauls 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. <b>Any waste generated by and of the projects that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of St. Pauls require all contractors to provide proof of proper disposal for all generated waste to permitted facilities.</b>” In addition, the NC DEQ notes that “[a]ny open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900.” Therefore, the proposed project is not anticipated to have an adverse impact on solid waste disposal/ recycling in the surrounding area.</p> <p><b>Attachment 20:</b> State Environmental Clearinghouse Comments from NC DEQ</p>
Waste Water / Sanitary Sewers	2	<p>The Town of St. Pauls provides sewer services to the community according to the Town website. The proposed project will not introduce any new development that would generate waste water. Mitigative measures such as BMPs will be utilized during construction to prevent soil and/ or debris from being washed offsite. The proposed project is not anticipated to cause the discharge of sewage to surfaces of the Subject Property or surrounding properties. The proposed project will not create waste water or affect waste water service in the area. Any additional waste water generated during construction activities would be temporary.</p> <p>A permit to construct and operate waste water treatment facilities, non-standard sewer system extensions and sewer systems that do not discharge into state surface waters and 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 waste water facilities discharging into state surface waters might be required. (See <b>Attachment 20</b>)</p> <p>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.</p>

		<b>Attachment 20:</b> State Environmental Clearinghouse Comments from NC DEQ
Water Supply	2	<p>The Town of St. Pauls provides the water to the community according to the Town website. The proposed project will not increase demand for water, except if needed during short-term construction. Thus, the proposed project will not have an impact on local water supplies.</p> <p>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 DWR / 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. If any wells are discovered on the proposed project site, then abandonment of wells must be in accordance with Title 15A. Subchapter 2C.0100. 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 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 onsite and in the surrounding area.</p> <p><b>Attachment 20:</b> State Environmental Clearinghouse Comments from NC DEQ</p>
Public Safety - Police, Fire and Emergency Medical	1	<p>According to the Town of St. Pauls' Emergency Services Committee website (<a href="https://www.stpaulsnc.gov/emsboard">https://www.stpaulsnc.gov/emsboard</a>), the community is served by the Town of St. Pauls Police Department, Town of St. Pauls Fire Department, Big Marsh Fire Department, Town of St. Pauls EMS (division of St Pauls Fire &amp; Rescue) and Town of St. Pauls Emergency Medical Responder Unit. The proposed project will not generate new demand for police, fire, or emergency services that would adversely impact availability and travel time for these services. Rather, the proposed project will improve transportation access for critical emergency response operations to the area and residents during and after future storm events.</p>
Parks, Open Space and Recreation	2	<p>There are several parks and recreational facilities located in St. Pauls according to the Town website (<a href="https://www.stpaulsnc.gov/parks">https://www.stpaulsnc.gov/parks</a>). The Town has Sugar Park located near the Boy Scout Hut on North 4<sup>th</sup> Street and Hooks Community Building on North 3<sup>rd</sup> Street and West Armfield Street. The St. Pauls Regional Park at 625 East Blue Street is owned by the Town but leased by Robeson County to operate it and has two baseball/ softball fields, a dog park, and the only public swimming pool in Robeson County. The ML Bob Everett Park/North 5th Street Park has basketball courts.</p>

		The proposed project will not introduce new development that would generate demand for parks, open spaces or recreational areas or impede their access. Rather, this stormwater infrastructure improvement project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. As such, the proposed project would not have an adverse effect on existing parks, open spaces or recreational areas.
Transportation and Accessibility	1	The proposed project will address inadequate stormwater conveyance and flooding which results in property damage to homes, churches and businesses and roadway flooding hindering transportation accessibility during and after storm events. The proposed project will not introduce new development that generates continuing demand for transportation access or services. Excavation, grading, and installation of pipe sections will proceed following initial excavation and will require sections of the involved streets to be closed periodically during the construction. Access to homes in the area will not be restricted given multiple ingress and egress routes through the neighborhood in which the improvements are being placed. Street use will be restored as sections of piping are installed and covered with soil stockpiles, gravel sub-base, and base and finish coats of asphalt. The long-term benefit of reduced flooding of roadways and yards and prevention of property damage to homes, churches and businesses during future storm events outweighs any short-term construction inconvenience. In addition, the proposed project will improve transportation access for critical emergency services to the area during and after future storm events.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	According to the NC NHP database query report, the Big Marsh Swamp is a documented natural area within one mile of the proposed project area, with an R2 (Very High) Representational Rating and C5 (General) Collective Rating ( <b>Attachment 8</b> ). Two managed areas, both Robeson County Open Spaces, are located within one mile of the proposed project area. The NC NHP database query report identified no records for important natural communities, natural areas, and/ or conservation/ managed areas within the proposed project boundary. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. A detailed discussion on mitigation measures is included in <b>Attachment 10</b> . The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, permit requirements and conditions, and

		<p>NCWRC recommendations. Therefore, there is no adverse impact anticipated on these areas from the proposed project.</p> <p>Based on the USACE CWA Section 404 NWP 18 Permit Verification and JD, the proposed project has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's Section 404. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP parcel. (<i>See</i> EO 11990 Protection of Wetlands Determination in <b>Attachment 10</b>.) The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules. Measures will be implemented to ensure the proposed project will have no further impacts to natural floodplains and wetlands during construction. Thus, no potential impacts from the proposed project are anticipated to adversely affect on- or offsite unique natural features or water resources.</p> <p><b>Attachment 8:</b> Endangered Species documentation including the NC NHP Database Query Reports; <b>Attachment 10:</b> EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination; and <b>Attachment 20:</b> State Environmental Clearinghouse Comments from NC DEQ</p>
Vegetation, Wildlife	2	<p>The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed and any migratory birds in the area will temporarily leave the area during construction. Therefore, a No Effect determination has been made for all of the above-listed species and a "no Eagle Act permit required" determination for eagles. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services FO on March 21, 2023. Native plants are recommended to be utilized in site restoration at the Subject Property.</p>

		<p>According to the NCWRC comments, it is recommended the Town of St. Pauls minimize impacts to aquatic and terrestrial wildlife resources. <i>For a detailed wildlife analysis, see the Endangered Species (Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402) section above and Attachment 8.</i></p> <p>BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies.</p> <p><b>Attachment 8:</b> USFWS Raleigh FO 10-step Project Review Package, USFWS, NC NHP and NCORR Correspondence, and SCH Comments from NCWRC</p>
Other Factors	1	<p>According to the PIF dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that “[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards.” The proposed project is intended to sustain and build resiliency of this area during future flooding events while not detracting from visual quality. The proposed project will further protect the residents’ public health and safety by safeguarding infrastructure and enhancing emergency response operations during and after severe storm events.</p>



Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>CLIMATE AND ENERGY</b>		
Climate Change Impacts  EO 14008	2	<p>According to NOAA, climate change is likely increasing the intensity of tropical cyclones. Thus, this proposed project is even more necessary to address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The proposed project location has been determined to be the most ideal for effective improvement of the existing stormwater infrastructure and only a small portion of the proposed activities will take place in 100-year floodplain.</p> <p>According to the Climate Mapping For Resilience and Adaptation Tool data for Robeson County, NC, there is a relatively high risk (National Risk Index Ratings) of Extreme Heat and Drought, relatively moderate risk for Wildfire and Flooding, and not applicable for Coastal Inundation (<b>Attachment 19</b>). According to the EJSCREEN website's Climate Change Data, the Subject Property is 61<sup>st</sup> percentile of properties at flood risk and 62<sup>nd</sup> percentile of properties at flood risk in 30 years in the U.S., 94<sup>th</sup> percentile of properties at wildfire risk and 92<sup>nd</sup> percentile of properties at wildfire risk in 30 years in the U.S., and no risk for sea level rise. The EJSCREEN data is representative for the area and lower risk percentiles than some portions of the surrounding area. Overall, the reviewed data does not present any additional significant site concerns. Rather, the proposed project is more essential to reduce flooding in the area, safeguard infrastructure and public and private properties, and reduce the vulnerability of assets by increasing the resiliency of the community during future flooding events.</p> <p><b>Attachment 19:</b> EJSCREEN website's Climate Change Data and CMRAT Data for Robeson County, NC. <i>See also, Attachment 14:</i> EJSCREEN Community Report.</p> <p><i>See also, <a href="https://www.climate.gov/news-features/understandingclimate/climate-change-probably-increasing-intensitytropical-cyclones">https://www.climate.gov/news-features/understandingclimate/climate-change-probably-increasing-intensitytropical-cyclones</a>, <a href="https://ejscreen.epa.gov/mapper/">https://ejscreen.epa.gov/mapper/</a>, and <a href="https://livingatlas.arcgis.com/assessment-tool/home">https://livingatlas.arcgis.com/assessment-tool/home</a></i></p>
Energy Efficiency	2	The proposed project would not cause an increase in long-term energy consumption. The proposed project involves stormwater infrastructure improvements that do not require energy consumption. The only anticipated increase in energy consumption will be temporarily during construction.

**Additional Studies Performed:** N/A

**Field Inspection** (Date and completed by): HGA, LLC, Bill Blankenship, Project Manager, 3/12/2022 and McGill, Jon Swaim, Project Manager, 10/13/21 and 2/7/23

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

- Robeson County, NC (ROKMAPS) Maps, at [https://maps.roktech.net/ROKMAPS\\_Robeson/](https://maps.roktech.net/ROKMAPS_Robeson/)
- Fact Sheet #D1: Siting HUD-Assisted Projects in Accident Potential Zones
- US EPA NEPAassist Tool, at <https://nepassisttool.epa.gov/nepassist/nepamap.aspx>
- Airport Data and Information Portal (ADIP), at <https://adip.faa.gov/agis/public/#/public>
- 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>
- U.S. EPA, North Carolina Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants, at [https://www3.epa.gov/airquality/greenbook/anayo\\_nc.html](https://www3.epa.gov/airquality/greenbook/anayo_nc.html)
- U.S. EPA, Recent Updates: Federal Register Notices Published or Effective After June 30, 2023, at <https://www3.epa.gov/airquality/greenbook/adden.html>
- NC DEQ CAMA Counties, <https://deq.nc.gov/about/divisions/coastal-management/about-coastal-management/cama-counties>
- USFWS Information for Planning and Consultation (IPaC), at <https://ipac.ecosphere.fws.gov/>
- USFWS Raleigh Field Office
- NC NHP Data Explorer Tool, at <https://ncnhde.natureserve.org/>
- NC NHP
- NCWRC, Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality, at [https://www.ncwildlife.org/Portals/0/Conserving/documents/2002\\_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf](https://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf)
- National Register of Historic Places, at <https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466>
- NC HPOWEB, at <https://nc.maps.arcgis.com/home/item.html?id=79ea671ebdcc45639f0860257d5f5ed7>
- NC State Historic Preservation Office
- HUD Tribal Directory Assessment Tool (TDAT), at <https://egis.hud.gov/tdat/>
- Catawba Indian Nation
- NC DEQ DWM Site Locator, at <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=7dd59be2750b40bebebf49fc383f688>
- UNC University Libraries, Digitized Historical Maps: North Carolina Sanborn® Maps, at <https://guides.lib.unc.edu/historicalmaps/sanborn>
- Google Maps and Google Earth
- USDA NRCS Soil Survey, at <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>
- U.S. EPA Map of Sole Source Aquifer Locations, at <https://www.epa.gov/dwssa/map-sole-source-aquifer-locations>

- Nationwide Rivers Inventory Map, at <https://www.nps.gov/subjects/rivers/nationwide-rivers-inventory.htm>
- NC National and Wild Scenic Rivers System, at <https://www.rivers.gov/north-carolina.php>
- Eligible and Suitable Rivers Map, at <https://nps.maps.arcgis.com/apps/webappviewer/index.html?id=df0f4455dc5f41bb919a3a1a49c60174>
- EJSCREEN Standard Report
- EJSCREEN ACS Summary Report
- EJSCREEN Census 2010 Summary Report
- NC DEQ Community Mapping, at <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=1eb0fbe2bcfb4cccb3cc212af8a0b8c8>
- CDC, National Environmental Public Health Tracking Network, at <https://ephtracking.cdc.gov/InfoByLocation/?FIPS=37065&topics=1,10,2,3,4,5,6,7,8>
- Town of St. Pauls website, at <https://www.stpaulsnc.gov/communityinformation>
- Town of St. Pauls' EMS Committee, at <https://www.stpaulsnc.gov/emsboard>
- Town of St. Pauls' EMS, at <https://www.stpaulsnc.gov/ems>
- Town of St. Pauls' Official Zoning Map, at <https://www.stpaulsnc.gov/zoning>
- Google Earth and Google Maps
- North Carolina State Parks, at <https://www.ncparks.gov/find-a-park>
- NCORR Community Recovery/ Infrastructure (CRI) Program, Project Information Form (PIF) (amended), September 28, 2020
- 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

**Attachments:**

**Attachment 1:** Proposed Project Location Maps, Robeson County Parcel Information, and Site Plans;

**Attachment 1A:** Site Visit Photographs;

**Attachment 2:** NEPAAssist Maps with 15,000-foot Buffer Showing Airports;

**Attachment 3:** USFWS CBRS Map and Certification;

**Attachment 4:** FEMA FIRMettes with Parcels' Boundaries;

**Attachment 5:** NC Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants (EPA Green Book) and EPA NC Radon Level Map;

**Attachment 6:** NC DCM Counties List and Map;

**Attachment 7:** HUD Environmental Standards Review, NEPAAssist EPA Facilities Reports with 1-mile and 0.5-mile Buffers, NC DEQ DWM Site Locator Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, Site Inspection Documentation, and Historic Aerials;

**Attachment 8:** USFWS Raleigh FO 10-step Project Review Package, USFWS, NC NHP and NCORR Correspondence, and SCH Comments from NCWRC;

**Attachment 9:** USGS Topographical Map, USGS Topographic Map Symbols Guide, and USDA NRCS Web Soil Survey;

**Attachment 10:** EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination;

**Attachment 11:** SHPO Response, NCORR SHPO Submission Package, TDAT Results, Catawba Indian Nation Response, NCORR Catawba Indian Nation Submission Packages, and Lumbee Tribe of NC Proposed Project Notification Letter;

**Attachment 12:** U.S. EPA Sole Source Aquifers Map;

**Attachment 13:** NEPA Assist Maps of DOI NPS Nationwide Rivers Inventory and National Wild and Scenic Rivers System Showing 1-mile and 2.45-mile Buffers from Proposed Project Site;

**Attachment 14:** EJSCREEN Standard Report, EJSCREEN ACS Summary Report, EJSCREEN Census 2010 Summary Report, EJSCREEN Community Report, NC DEQ Community Mapping System Map, and CDC Report for Robeson County;

**Attachment 15:** Zoning Maps and Town Board Workshop Meeting Notes, September 30, 2019;

**Attachment 16:** Educational Facilities documentation;

**Attachment 17:** Commercial Facilities documentation;

**Attachment 18:** Health Care and Social Services documentation;

**Attachment 19:** EJSCREEN website's Climate Change Data and CMRAT Data for Robeson County, NC; and

**Attachment 20:** 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.

Permits that *might be required* include, but are not limited, to:

- USACE CWA Section 404 Permit - NWP 18 Minor Discharges
- NC DEQ DWR CWA Section 401 Water Quality Certification
- NC DEQ DEMLR Erosion and Sediment Control Permit
- NPDES Construction Stormwater Permit (NCG010000)
- Local Floodplain Development Permit
- Local Excavation Permit

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

Stormwater issues in the area have been discussed publicly on:

- January 14, 2016, Town Board Meeting, various stormwater maintenance issues.
- October 13, 2016, Town Board Meeting, Ronald Roush requested something be done with drainage problem at McClean and Johnson Streets which is the specific project area.
- November 2, 2016, public comments suggested the Mayor appoint a Stormwater Committee.
- May 1, 2017, Stormwater Committee presented a report indicating Elizabeth Street in the project area as one of the top priorities for stormwater management in the Town.
- March 11, 2018, Town Board Retreat, storm drainage was a significant topic including discussions to identify projects and seek funding to improve the situation.
- September 3, 2019, Town Board Meeting, Steve Glover, a resident in the project area, addressed the Board and expressed his concern about the project status and upcoming hurricane season and pending storm.
- September 30, 2019, Town Board Workshop Meeting, proposed project engineering services bid accepted from McGill Associates

**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 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. Rather, this stormwater infrastructure improvement project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The mitigation of future flooding is essential for the safety of residents and property in the Town of St. Pauls. Thus, the benefits of this proposed project to the community of the Town of St. Pauls cannot be understated.

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

The proposed project location has been determined to be the most ideal for effective improvement of the existing stormwater infrastructure and only a small portion of the proposed activities will take place in 100-year floodplain and wetland. This proposed project involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative routes and designs were considered during the design phase; however, the proposed project utilizes the most economical and direct route to convey stormwater to the larger drainage area of Big Marsh Swamp. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (see Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed project was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain. The original design proposed approximately 584 LF of RCP through the wetland ending under the WWTP Access Road with a rip rap apron and armoring. The revised 2023 proposed project design involves the installation of two 24-inch RCPs approximately 26 linear feet in length in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron.

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

The main alternative is the "No Action" Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This proposed project is critically necessary to protect the residents, property and community from future storm events. The "No Action" Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. The "No Action" Alternative would not address the purpose and need of the proposed project, and leave the surrounding community

vulnerable to future flood damage. Thus, the “no action” alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events.

### **Summary of Findings and Conclusions:**

The preceding Statutory Checklist and Environmental Assessment Checklist, and the discussion below, document that the proposed 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
<b>Clean Air</b>  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 applicable BMPs to reduce fugitive dust generation and diesel emissions. BMPs for construction projects 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

	<p>machinery to construction hours only and removal once construction is completed.</p>
<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>In the event that unexpected, contaminated materials or debris are encountered during construction, work in the area shall cease immediately, and the work area shall be secured. The appropriate NCDEQ 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, etc.), and, if removed, will be properly disposed of in the appropriate facility approved by the C DEQ DWM Solid Waste Section. Notification of the proper regional office is requested if "orphan" USTs are discovered during any excavation operation (<b>Attachment 20</b>).</p>
<p><b>Noise Abatement and Control</b></p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>The proposed project activities are not expected to generate excessive noise during the short-term construction work or long-term operation. Short-term construction noise will be limited to daytime hours. Construction equipment will be required to meet local sound control requirements. The proposed project activities will be completed in accordance with all applicable federal, State and local laws, regulations, and permit requirements and conditions.</p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Eight-step compliance with EO 11988 under 24 CFR 55.20 is required because "modification" of 100-year floodplain include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and added to the ERR when received from the permitting agencies. BMPs for erosion and sedimentation control will be utilized during construction such as timber mats and silt fencing. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded</p>

	area(s) can be repaired and stabilized. Thus, measures will be implemented to ensure the proposed project will have no further impacts to natural floodplains during construction and operation as a stormwater infrastructure system.
<p><b>Endangered Species</b> Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p> <p>Vegetation, Wildlife</p>	<p>According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. <b>See Attachment 8</b> for full details. Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.</p> <p>The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies.</p>



<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p> <p>Unique Natural Features, Water Resources</p>	<p>Eight-step compliance with EO 11990 under 24 CFR 55.20 is required because “new construction” in wetlands includes the installation of two 24-inch RCPs under the gravel access road to the St. Pauls’ WWTP and armoring culvert outlets with 18-inch Class B riprap apron. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area, fill placement, and armoring with 18-inch Class B riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Additionally, under the Endangered Species section of this EA, it is recommended the Town of St. Pauls minimize impacts to aquatic and terrestrial wildlife resources according to the NCWRC comments.</p> <p>The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources (DWR) CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed project will have no further impacts to wetlands during construction and operation as a stormwater infrastructure system.</p>
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Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	If fill material is required, it will come from an approved source that has an action erosion control permit (per NC Regulations) and the soils will be tested by the geotechnical engineer prior to importing the material to ensure that it meets project requirements. The proposed project will be designed in a way to balance the grading and not require any off-site material, if possible. No soil removal is planned. However, should soil need to be removed from the site, it will be quantified and only exported to an approved site per NC requirements. (BMPs and permits are discussed in previous sections, i.e., floodplain management and wetlands protection.)
Solid Waste Disposal / Recycling	All construction wastes will be appropriately disposed of according to the type of waste generated and construction waste management practices in an appropriate, legally compliant receiving facility. The NC DEQ DWM Solid Waste Section (Section) commented that “for any planned or proposed projects, it is recommended that during any land clearing, demolition and construction, the Town of St. Pauls 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. <b>Any waste generated by and of the projects that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of St. Pauls require all contractors to provide proof of proper disposal for all generated waste to permitted facilities.</b> ” In addition, the NC DEQ notes that “[a]ny open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900.”
Waste Water / Sanitary Sewers	According to the NC DEQ comment, a permit to construct and operate waste water treatment facilities, non-standard sewer system extensions and sewer systems that do not discharge into state surface waters and 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 waste water 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.

## Town of St. Pauls Flood Improvements

St. Pauls, Robeson County, NC

Water Supply	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 DWR / 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. If any wells are discovered on the proposed project site, then abandonment of wells must be in accordance with Title 15A. Subchapter 2C.0100. 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 project prior to construction and activities will comply with their requirements and conditions.
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**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: 7/18/23

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

Certifying Officer Signature:  Date: 7/18/2023

Name/Title: Laura H. Hogshead, Director, 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, Robeson County Parcel Information, and Site Plans**

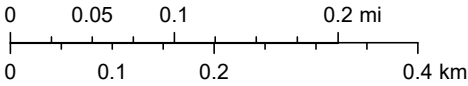
# St. Pauls Flood Improvements - Aerial Map



June 8, 2023

1:9,028

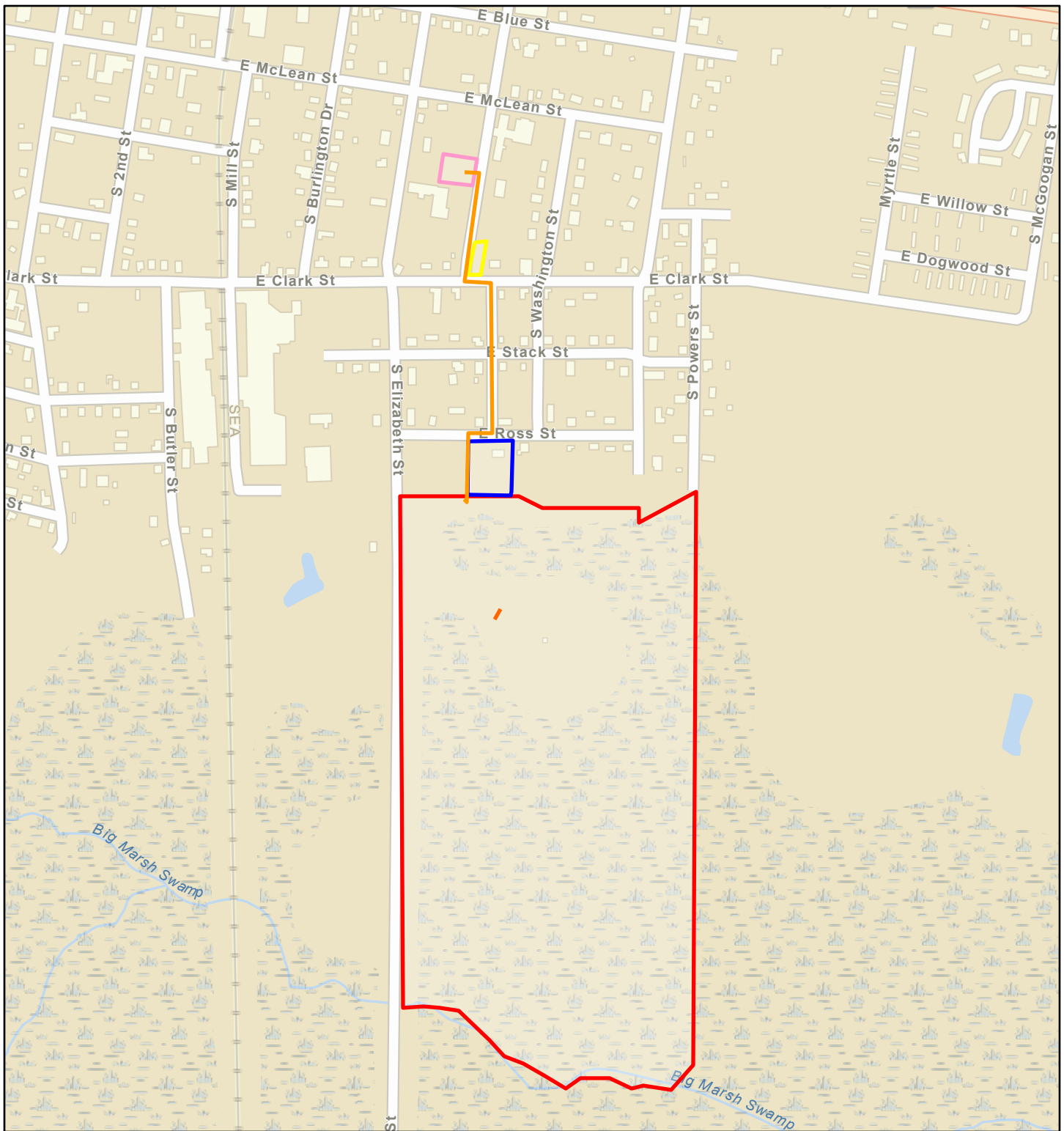
- St. Pauls' Southern Project
- St. Pauls' Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



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



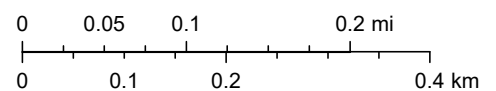
# St. Pauls Flood Improvements - Street Map



June 8, 2023

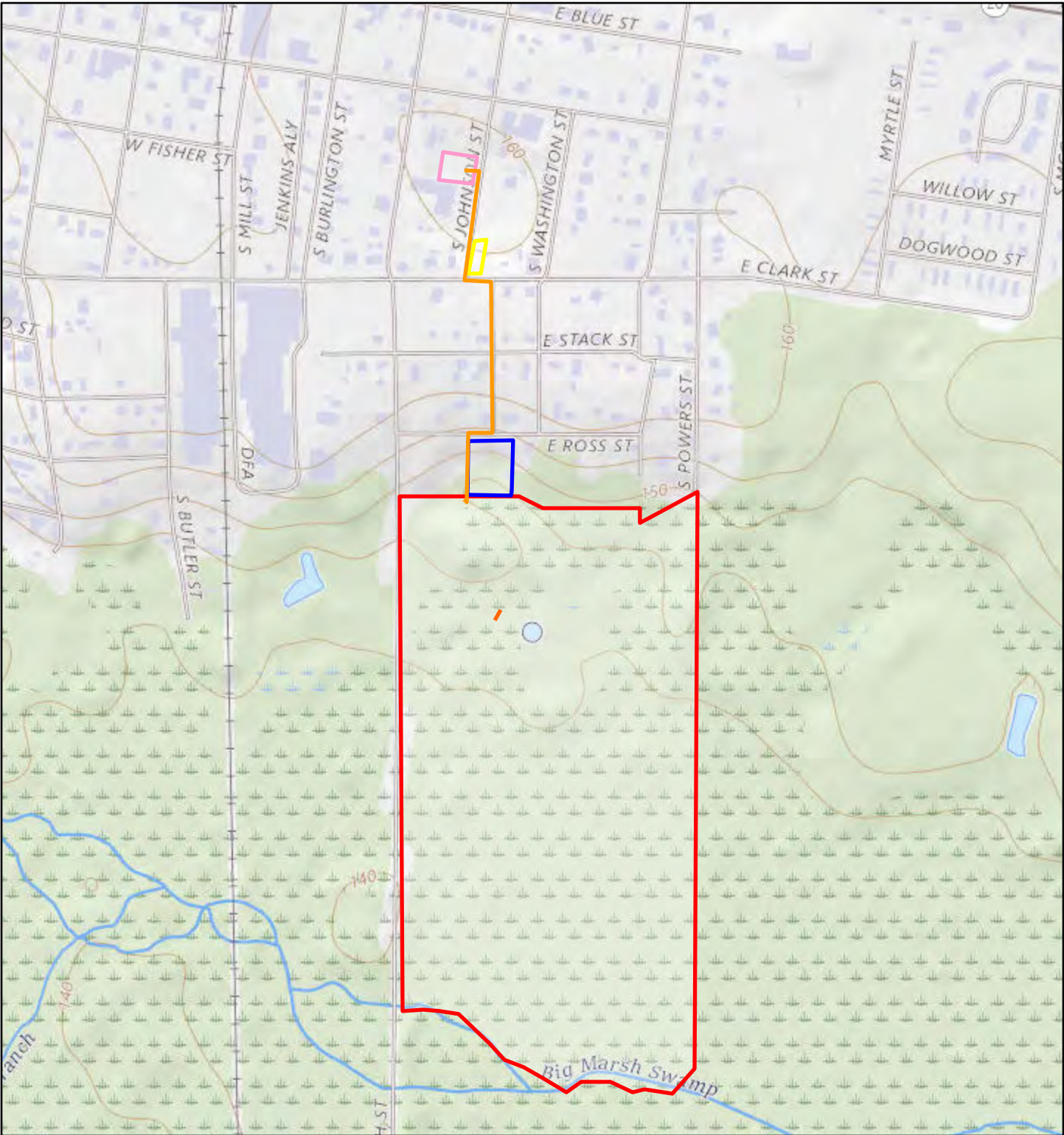
1:9,028

- St. Pauls' Southern Project
- St. Pauls' Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



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

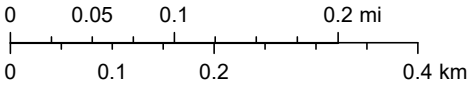
# St. Pauls Flood Improvements - USGS National Map



June 8, 2023

1:9,028

- St. Pauls' Southern Project
- St. Pauls' Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S.

# Calvary Cornerstone Holiness Church

## County of Robeson, NC



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<b>LOT</b>	null
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<b>TAX_YEAR</b>	2021
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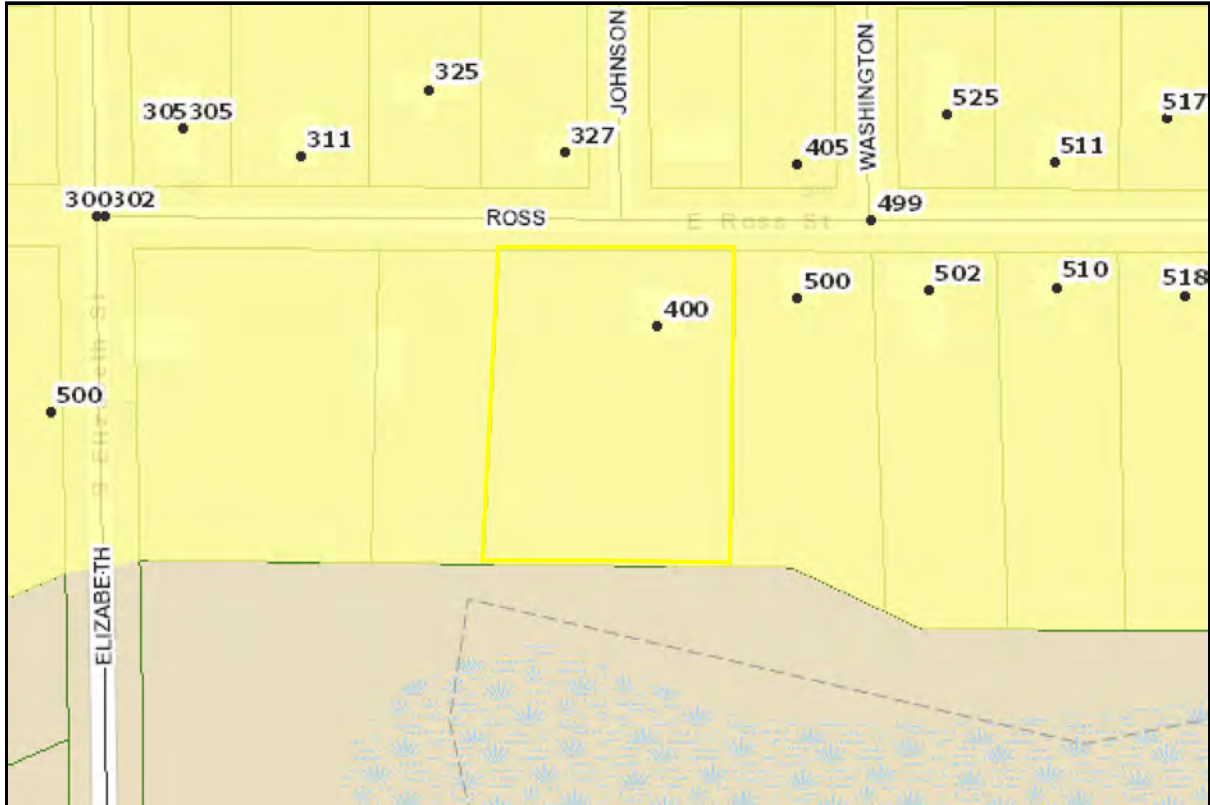


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<b>OWNAM2</b>	
<b>OWNAM3</b>	
<b>OWADR1</b>	323 S ELIZABETH ST
<b>OWADR2</b>	
<b>OWADR3</b>	
<b>OWADR4</b>	
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<b>OWSTATE</b>	NC
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<b>STDIRSUF</b>	
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<b>LEGDESC3</b>	
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<b>GROUPPAR</b>	030893533300
<b>REQREVIEW</b>	
<b>PHYSTRADR</b>	JOHNSON ST
<b>SCHCODE</b>	0
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<b>QUALCODE</b>	null

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## 400 East Ross Street

### County of Robeson, NC



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PIN_NUMBER	030892607300
PARCELTYPE	Base Parcel
CONFLICTNOTATION	
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STATUS	null
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NUMMOD	null
LOT	null
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TAX_YEAR	2021
PAR_CODE	
MAP	0308
SUBMAP	
BLOCK	92
PARCEL	6073
SUBPARCEL	00
PHYLOCAT	56987
CITYCODE	
ROUTENUM	0
OWNERID	1002944
CUROWNID	1002944

OWNAM1	MOSES KEVIN ANDREW
OWNAM2	
OWNAM3	
OWADR1	400 E ROSS STREET
OWADR2	
OWADR3	
OWADR4	
OWCITY	ST PAULS
OWSTATE	NC
OWZIP	28374-1928
STNUM	400
STSUFFIX	
STDIR	E
STNAME	ROSS
STTYPE	ST
STDIRSUF	
UNITNO	
DEEDACRE	1.3
MAPACRE	1.3
DISTCODE	58
TOWNCODE	38
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PARDESC1	D-10
NBHCLASS	
NBHCODE	38011
EXEMCODE	
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DEEDPAGE	null
DEEDYEAR	null
PLATBOOK	null
PLATPAGE	null
DATESOLD	null
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LEGDESC2	
LEGDESC3	
PARDESC4	
GROUPPAR	030892607300
REQREVIEW	
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IMPASVCUR	88100
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**401 East Clark Street**  
**County of Robeson, NC**



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STATUS	null
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NUMMOD	null
LOT	null
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TAX_YEAR	2021
PAR_CODE	
MAP	0308
SUBMAP	
BLOCK	92
PARCEL	6915
SUBPARCEL	00
PHYLOCAT	43218
CITYCODE	
ROUTENUM	0
OWNERID	99691000
CUROWNID	99691000

<b>OWNAM1</b>	GLOVER STEVEN & WF
<b>OWNAM2</b>	GLOVER BARBARA
<b>OWNAM3</b>	
<b>OWADR1</b>	341 S JOHNSON ST
<b>OWADR2</b>	
<b>OWADR3</b>	
<b>OWADR4</b>	
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<b>OWSTATE</b>	NC
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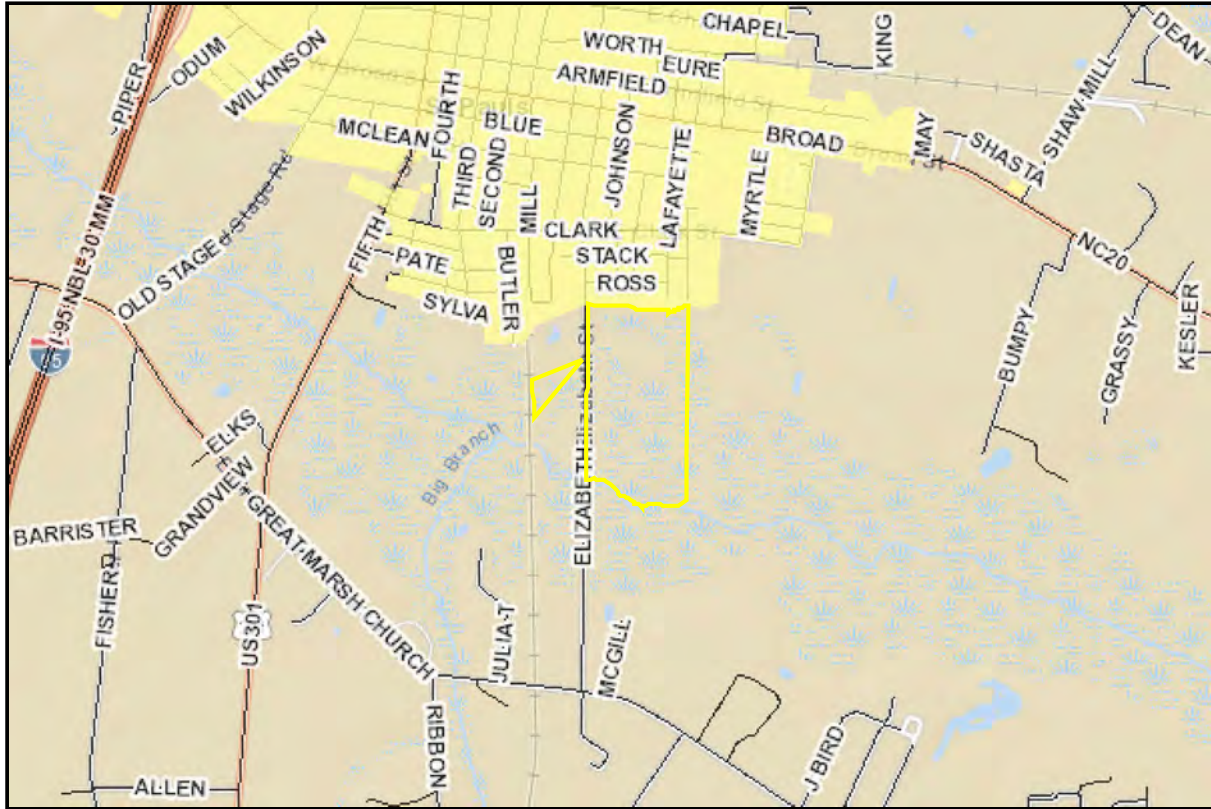
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**SALEINST**  
**DEEDSTMP**

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St. Pauls' WWTP

County of Robeson, NC



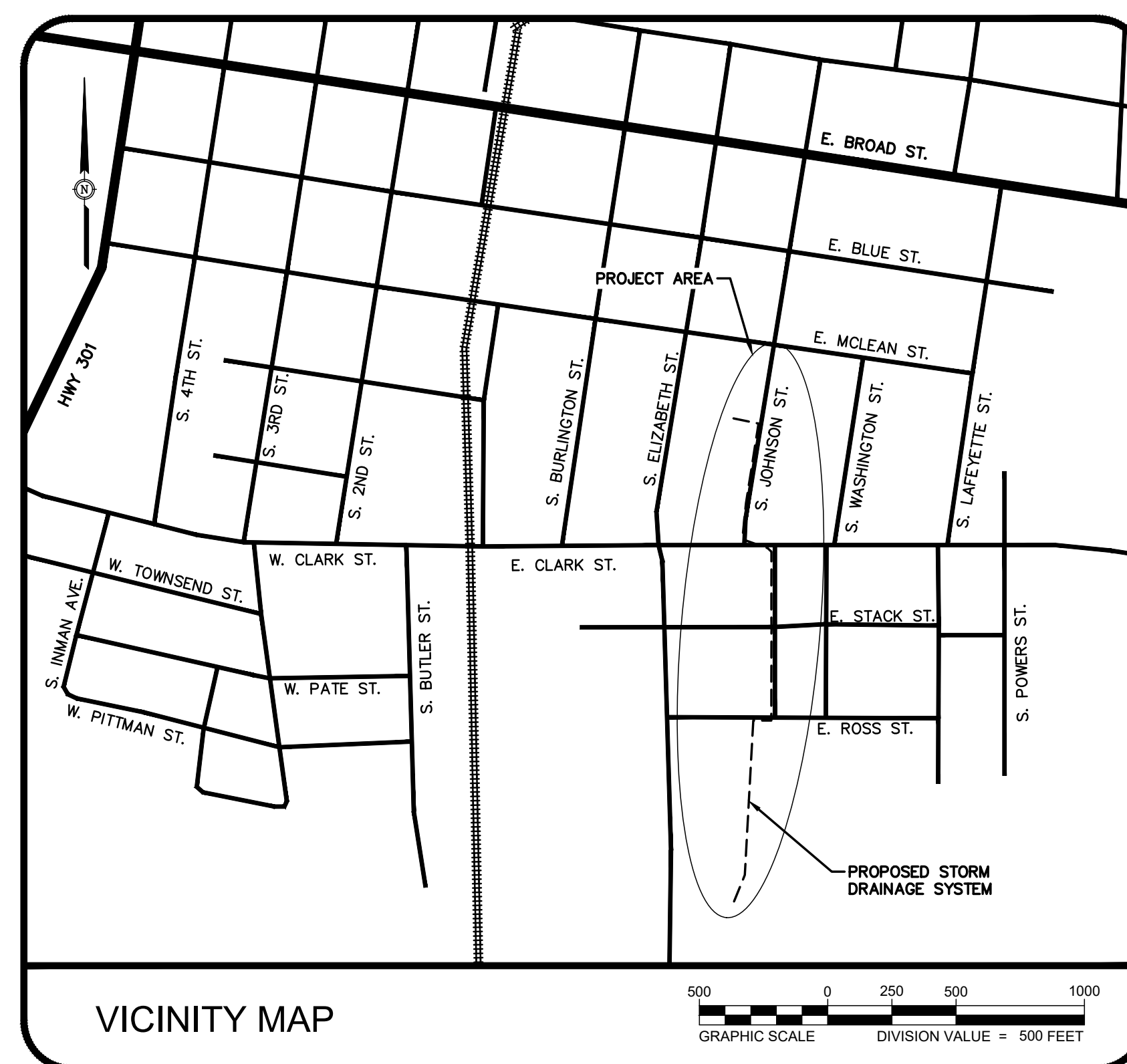
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MAP	0308
SUBMAP	
BLOCK	90
PARCEL	9819
SUBPARCEL	00
PHYLOCAT	71522
CITYCODE	
ROUTENUM	0
OWNERID	47243001
CUOWNID	47243001

<b>OWNAM1</b>	TOWN OF ST PAULS
<b>OWNAM2</b>	
<b>OWNAM3</b>	
<b>OWADR1</b>	
<b>OWADR2</b>	
<b>OWADR3</b>	
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<b>REQREVIEW</b>	
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# ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS

## ROBESON COUNTY, NORTH CAROLINA



### SCHEDULE OF DRAWINGS

- G-01 Cover
- G-02 Notes & Legend
- G-03 NCDEQ General Permit Notes
- G-04 NCDEQ General Permit Notes
- CE-01 Existing Conditions 1 of 4
- CE-02 Existing Conditions 2 of 4
- CE-03 Existing Conditions 3 of 4
- CE-04 Existing Conditions 4 of 4
- C-10 Proposed Plan and Profile S. Johnson St. Sta. 0+00-5+50
- C-11 Proposed Plan and Profile E. Clark St. Sta. 6+00-7+50
- C-12 Proposed Plan and Profile S. Johnson St. Sta. 8+00-12+00
- C-13 Proposed Plan and Profile S. Johnson St. Sta. 12+00-15+00
- C-14 Proposed Plan and Profile E. Ross St. Sta. 15+00-16+50
- C-15 Proposed Plan and Profile Sta. 17+00-22+00
- C-16 Proposed Plan and Profile Sta. 22+00-25+50
- C-17 Overview of Wetland Impacts Sta. 17+00-25+50
- C-20 Cross Sections Sta. 17+50-20+00
- C-30 Erosion Control Details 1 of 2
- C-31 Erosion Control Detail 2 of 2
- C-32 Miscellaneous Details 1 of 2
- C-33 Miscellaneous Details 2 of 2









NO.	DATE	BY	DESCRIPTION

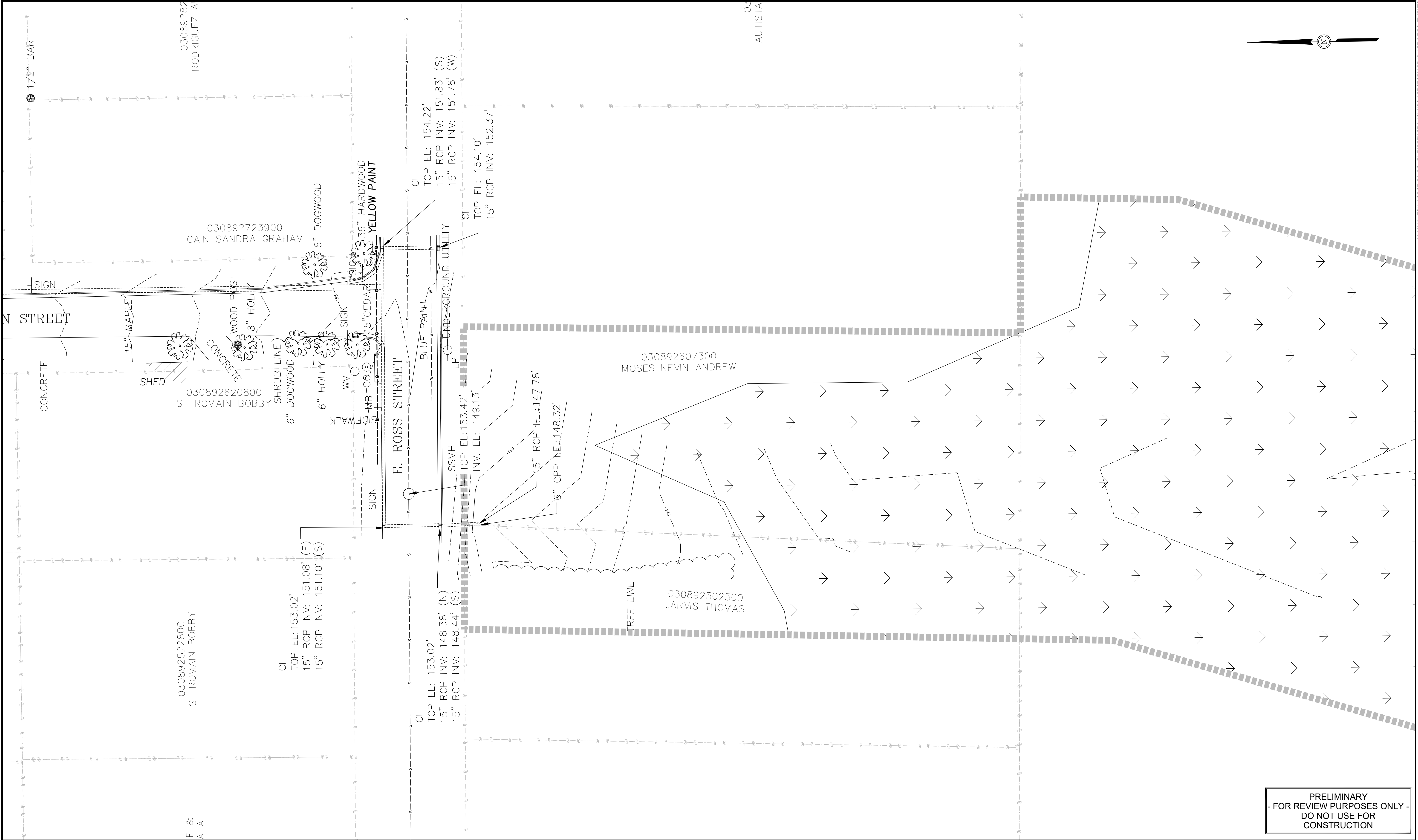
GRAPHIC SCALE

DIVISION VALUE = 20 FEET

2200 DRO &amp; ARGARITA

SHEET  
CE-02

\\AD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\21.04018-STPAUL-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\CE-01 EXISTING CONDITIONS DWG PLOT DATE 2/8/2023 3:33 PM KAJIA BEESLEY



PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

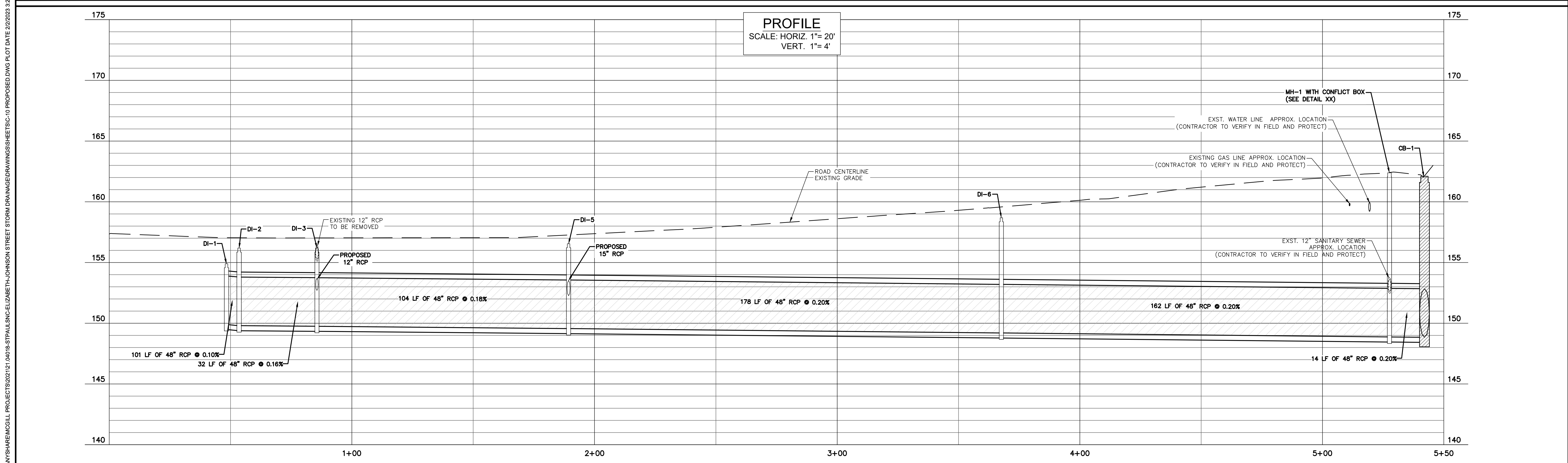
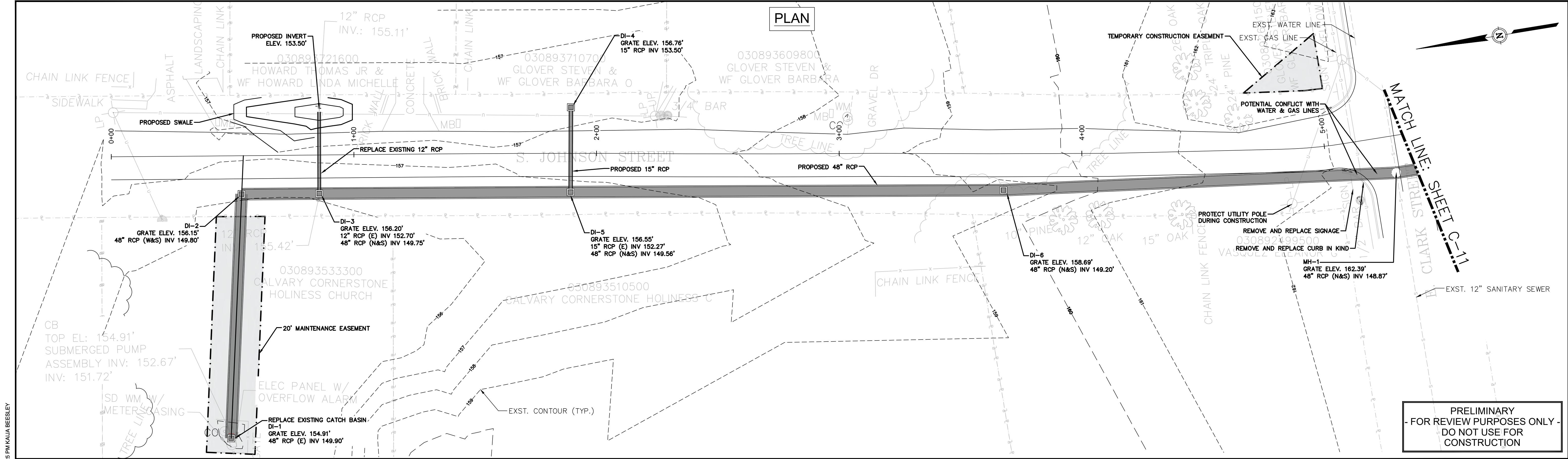
 55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com							ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS <b>TOWN OF ST. PAULS</b> ROBESON COUNTY, NORTH CAROLINA		 20 0 10 20 40 DIVISION VALUE = 20 FEET	EXISTING CONDITIONS 3 OF 4			SHEET <b>CE-03</b>
			NO.		DATE	BY	DESCRIPTION	OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT	PROJECT MANAGER D. SABEH	REVIEWER D. SABEH	DATE FEBRUARY 2023	PROJECT # 21.04018

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS



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PRELIMINARY

CALL 811 BEFORE YOU DIG

NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE DIVISION VALUE = 20 FEET

OFFICE MANAGER	DESIGNER
B. ROARK	C. HEATHCOAT
PROJECT MANAGER	REVIEWER
D. SABEH	D. SABEH

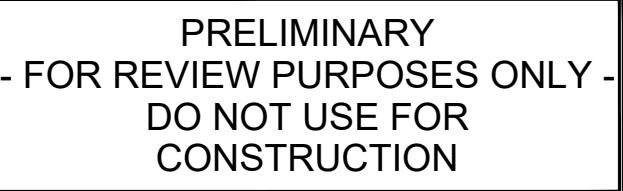
PROPOSED PLAN AND PROFILE S.  
JOHNSON ST. STA. 0+00-5+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET  
**C-10**







ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



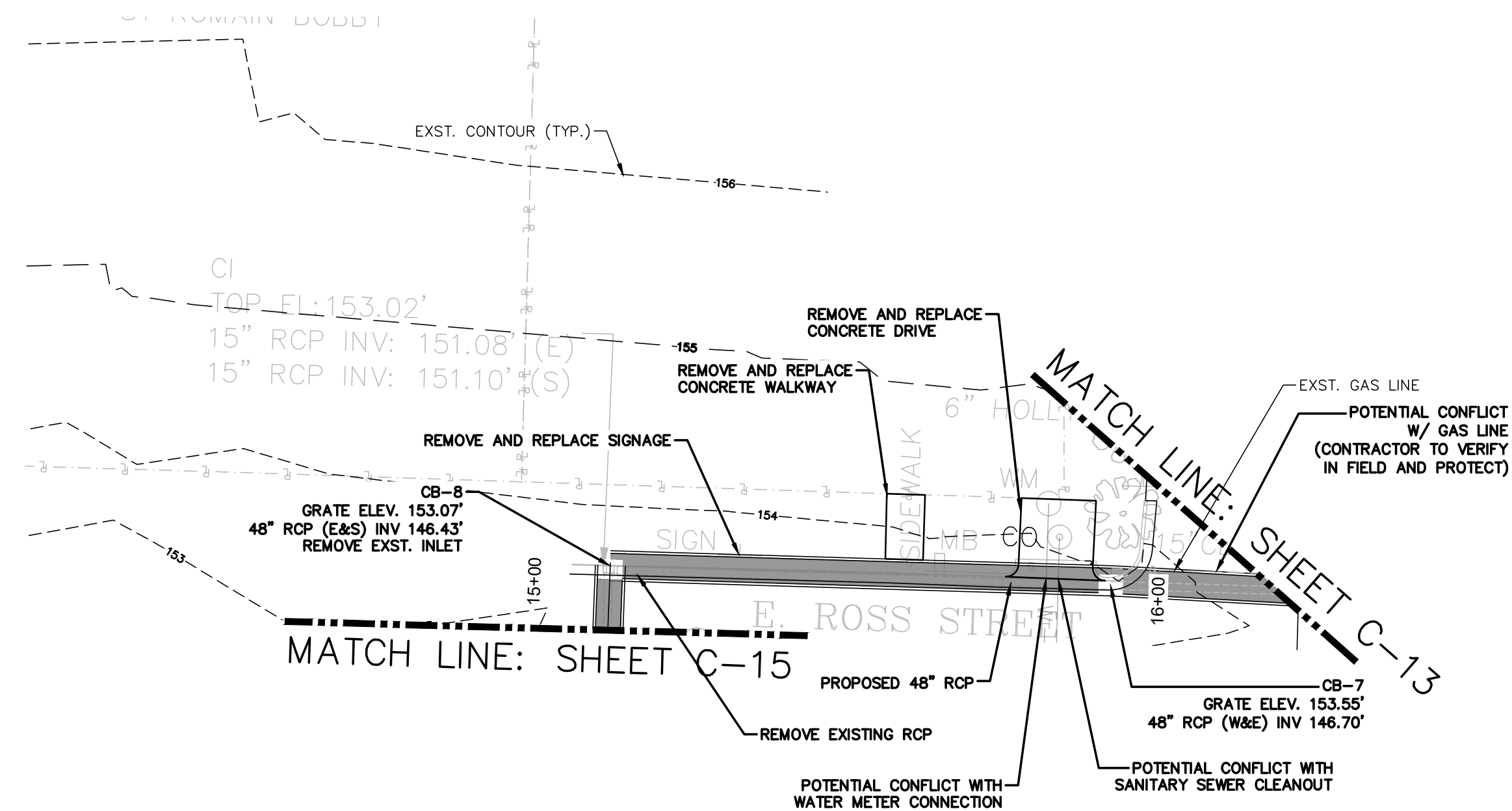
SHEET

C-12

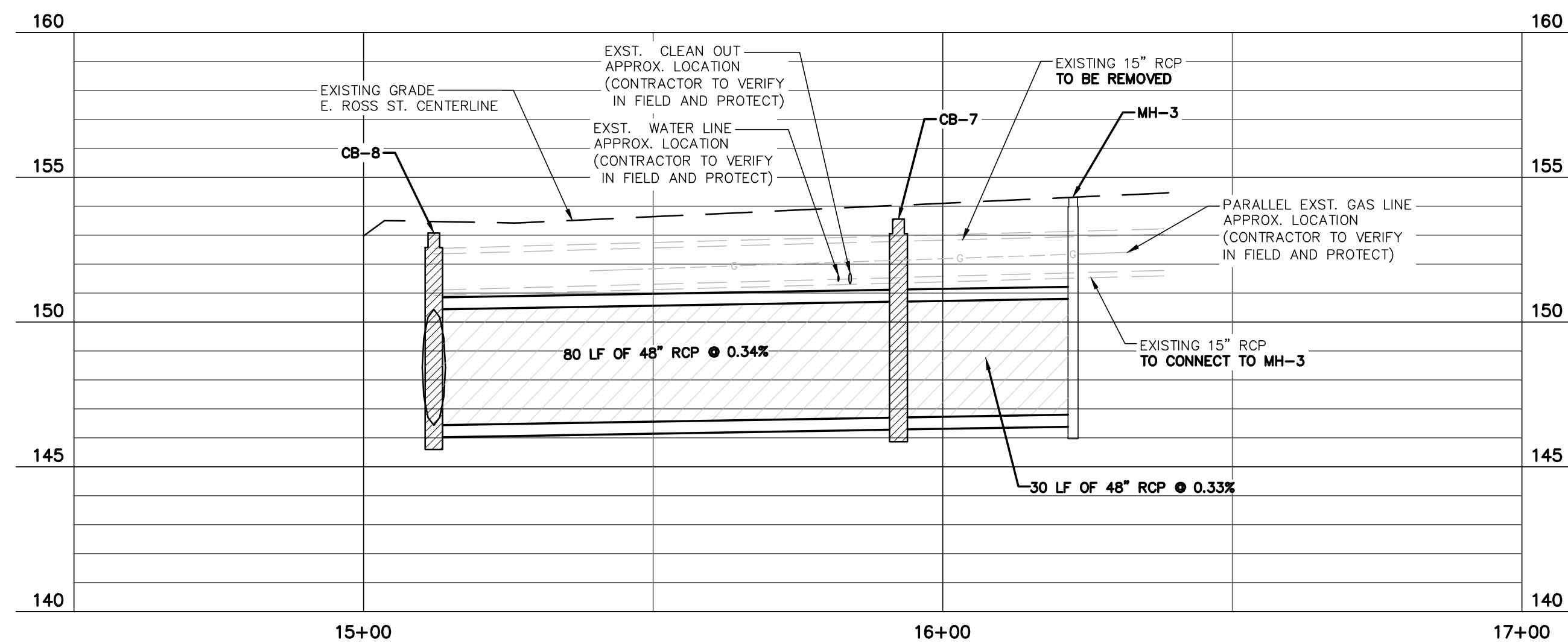
SHEET

C-13





SCALE: HORIZ. 1"= 20'  
VERT. 1"= 4'



PRELIMINARY  
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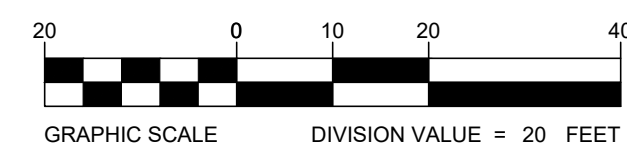


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PRELIMINARY

[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



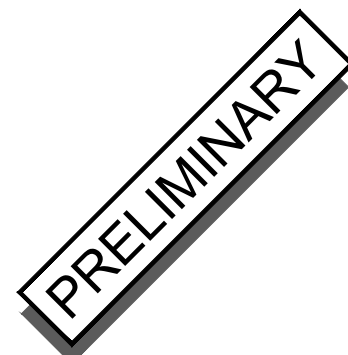
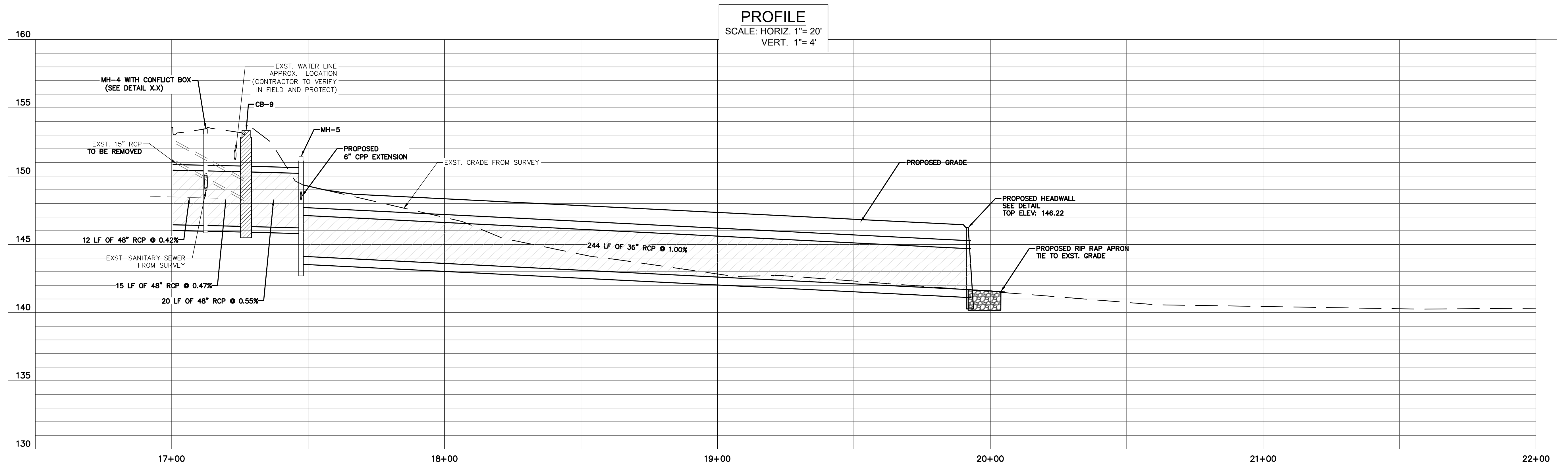
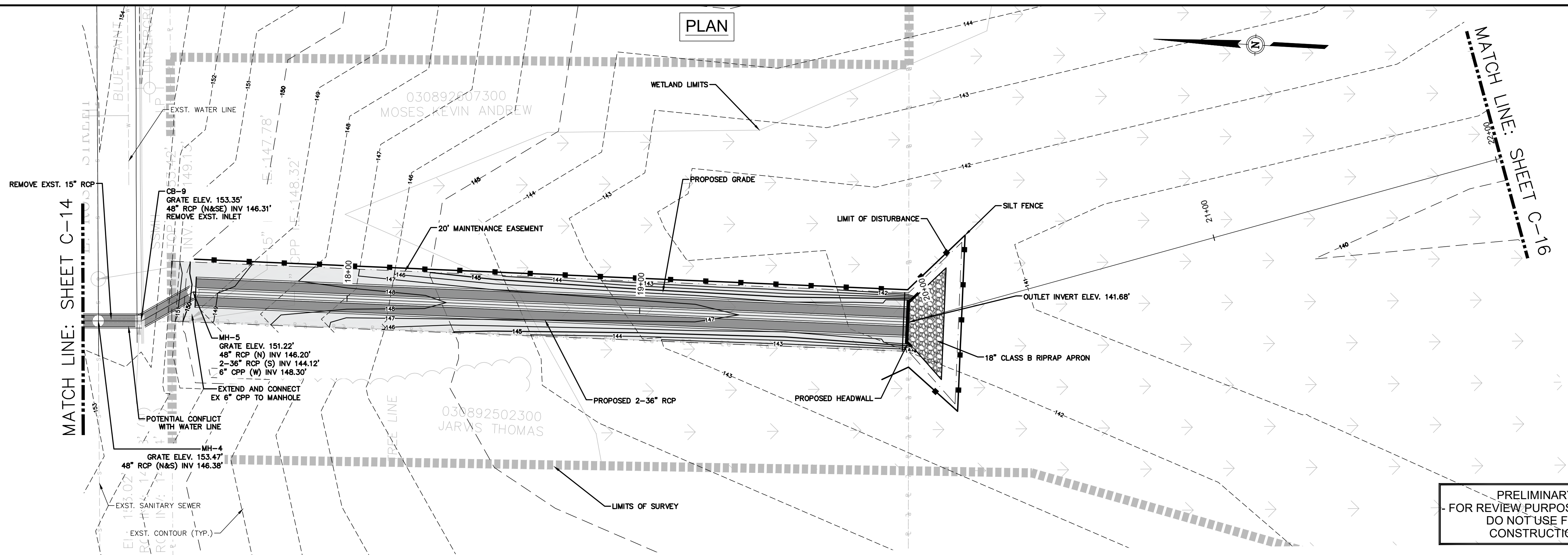
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

PROPOSED PLAN AND PROFILE E. ROSS  
ST. STA. 15+00-16+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

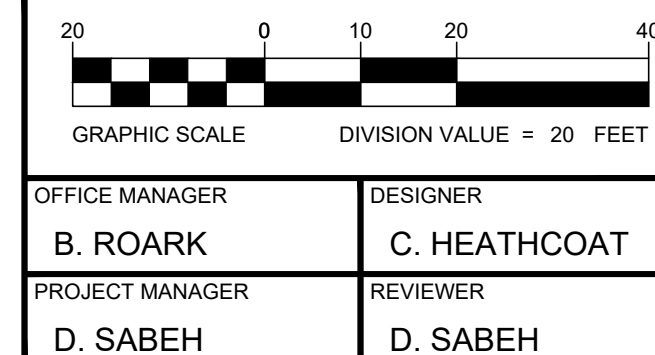
SHEET

C-14



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



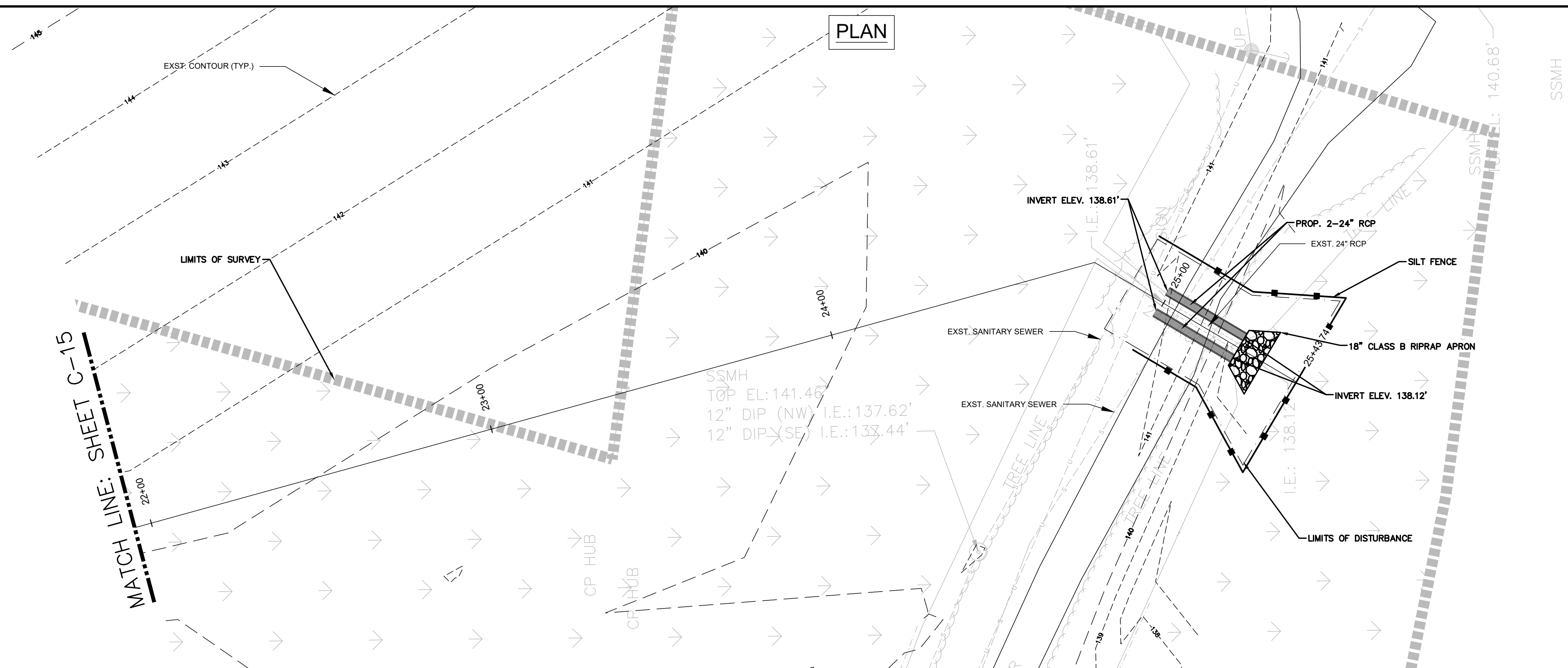
PROPOSED PLAN AND PROFILE STA.  
17+00-22+00

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

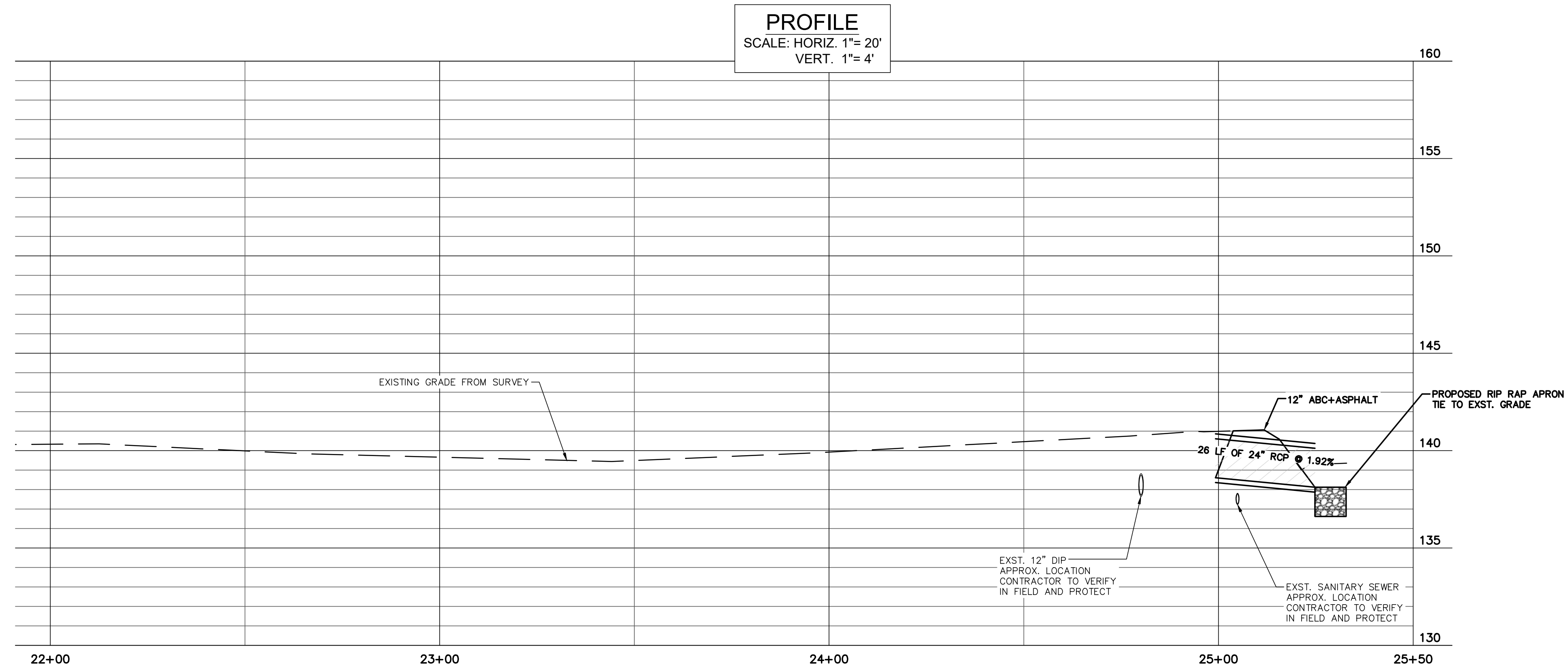
SHEET

C-15

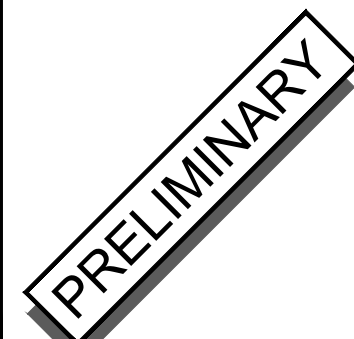




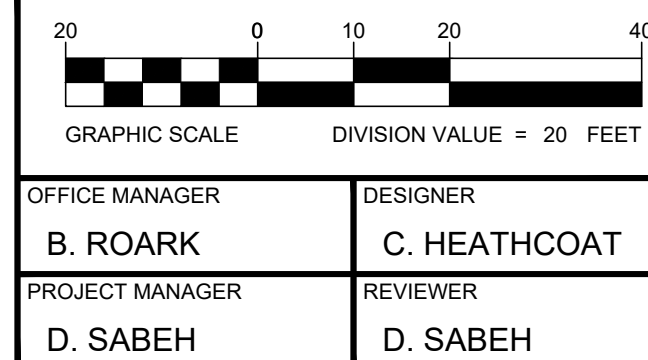
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[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



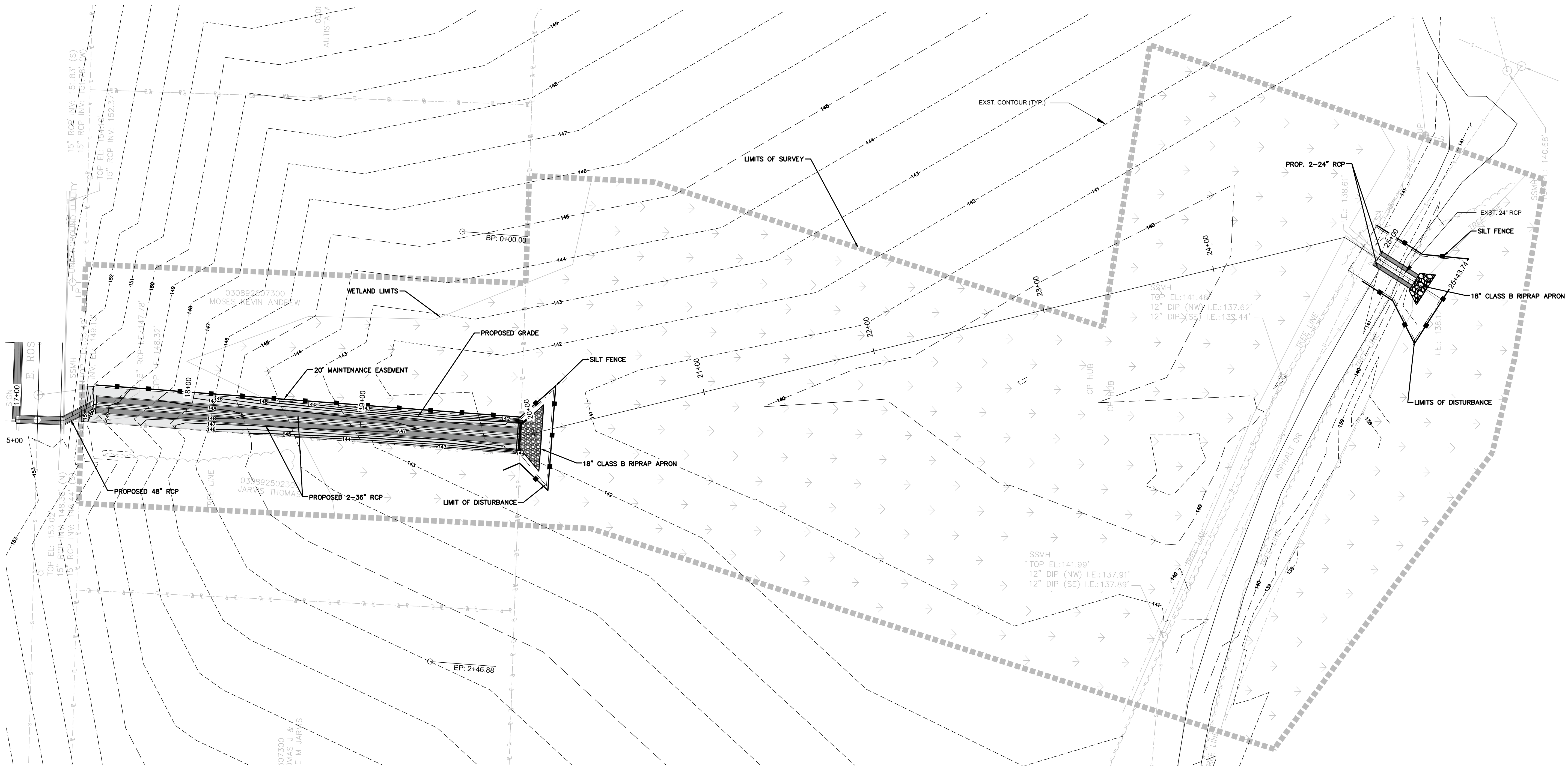
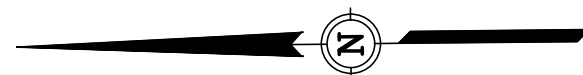
### PROPOSED PLAN AND PROFILE STA. 22+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET  
C-16



PLAN



PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
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CONSTRUCTION



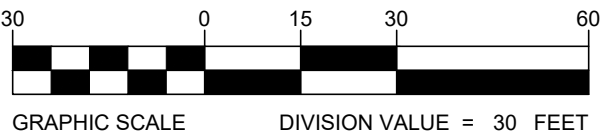
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PRELIMINARY



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

OVERVIEW OF WETLAND IMPACTS  
STA. 17+00-25+50

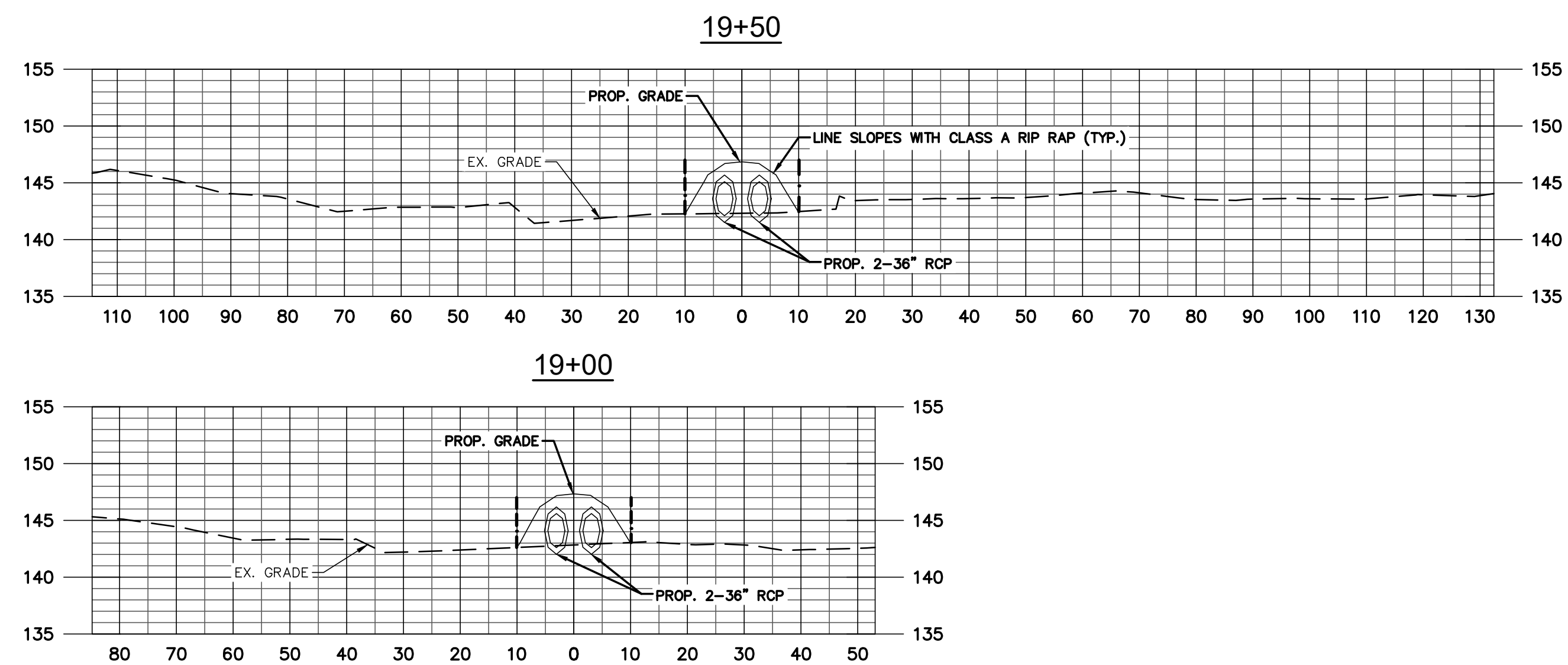
DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-17



**SECTION**  
SCALE: HORIZ. 1"= 20'  
VERT. 1"= 2'



PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



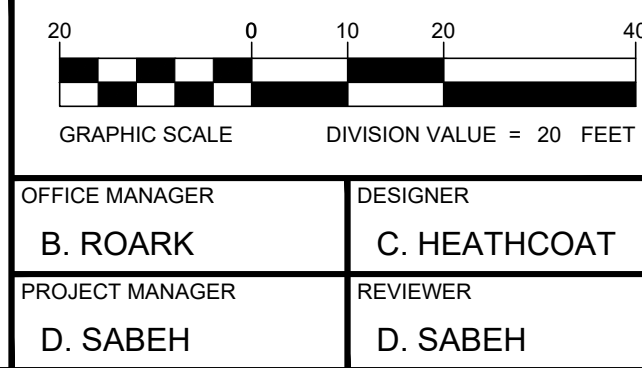
**mcgill**

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PRELIMINARY

[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



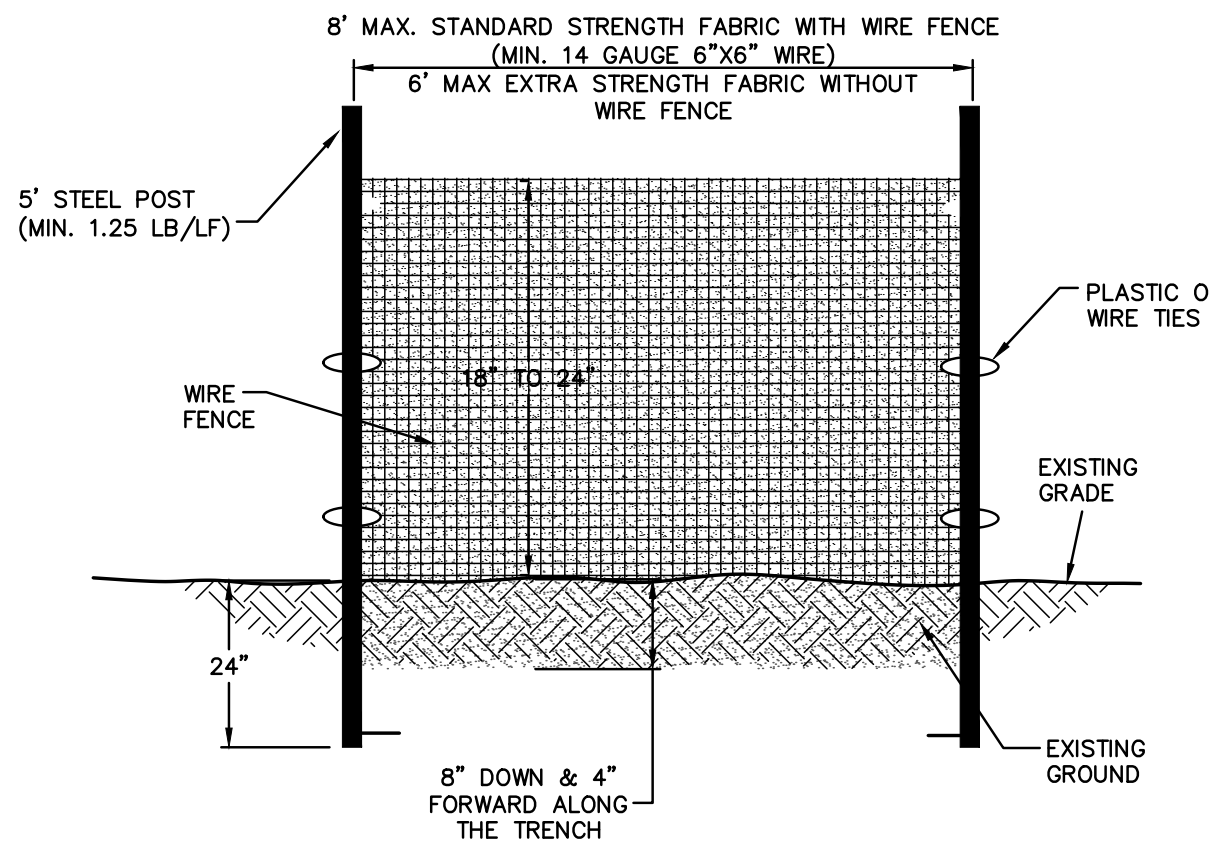
CROSS SECTIONS 17+50-20+00

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

# C-20

\\VAD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\17\_04018-STPAUL-SNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE DRAWINGS\SS\C-30 EROSION CONTROL DETAIL DWG.PLOT DATE 2/1/2023 9:57 AM KALUA BEESLEY



NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. REFERENCE NCDQ LAND QUALITY SECTION DESIGN MANUAL: 6.62.

MAINTENANCE:

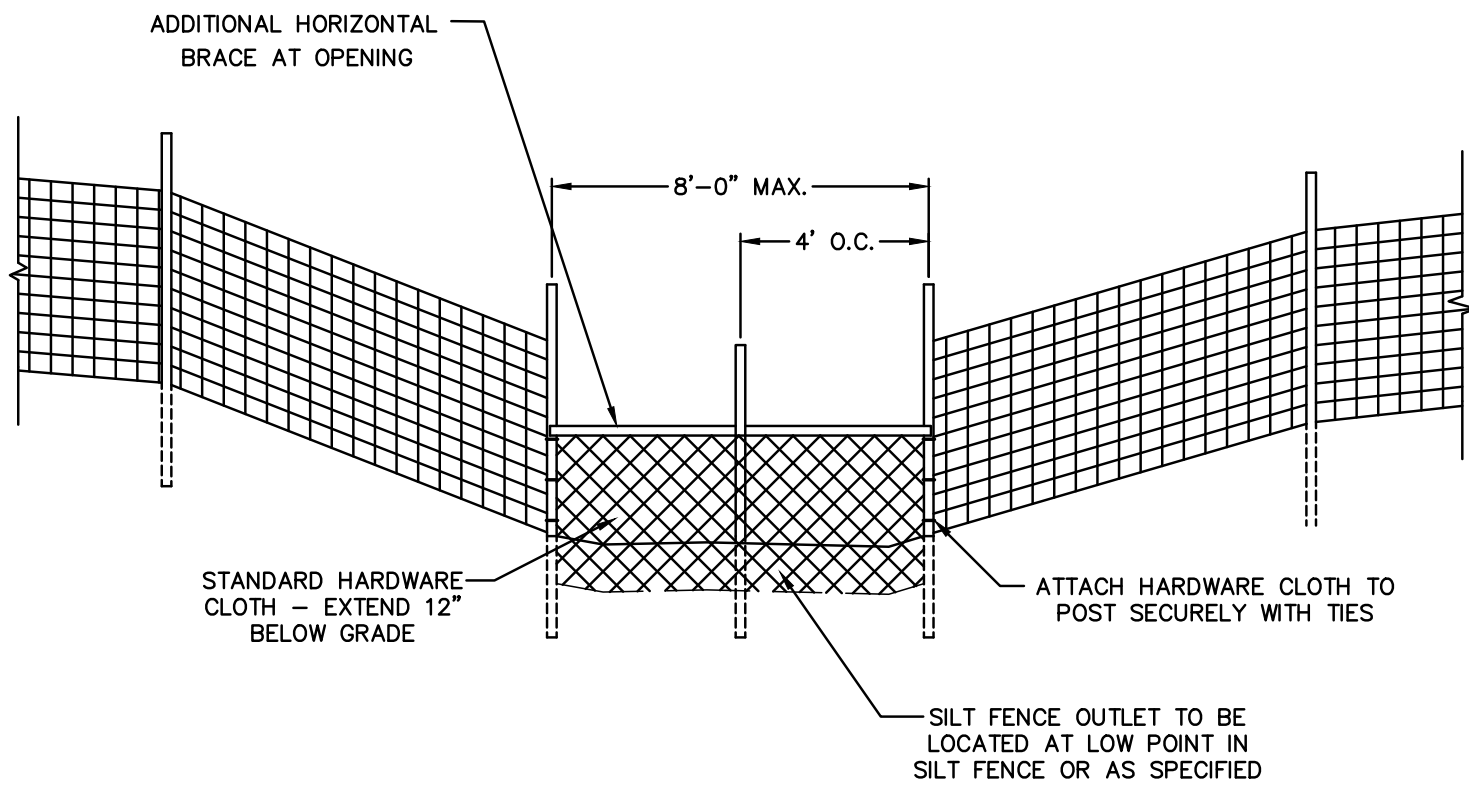
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SLOPE	SLOPE LENGTH(FT)	MAXIMUM AREA(SQFT)
<2%	100	10,000
2 TO 5%	75	7,500
5 TO 10%	50	5,000
10 TO 20%	25	2,500
>20%	15	1,500

SECTION VIEW

① SILT FENCE

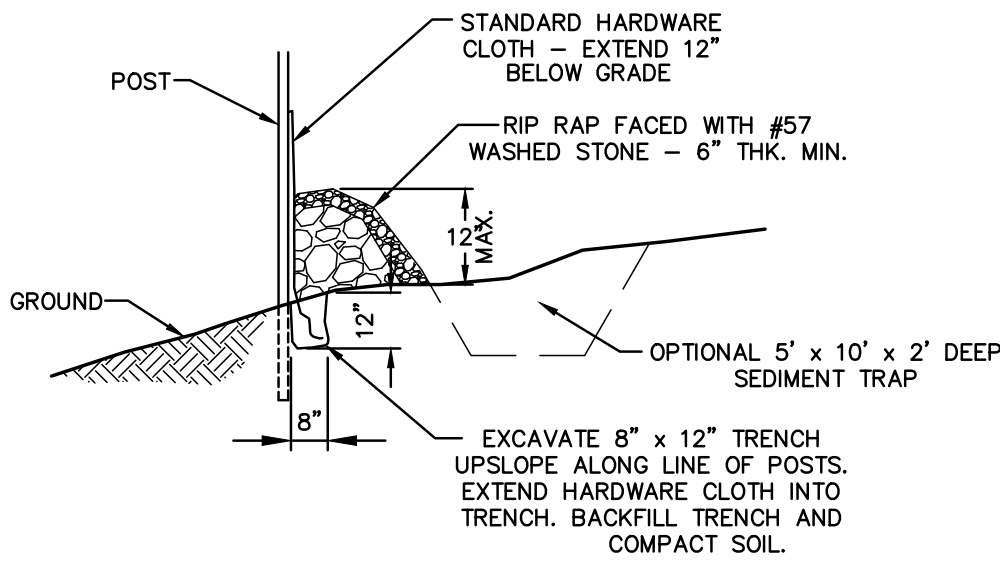
NOT TO SCALE



ELEVATION

NOTES:

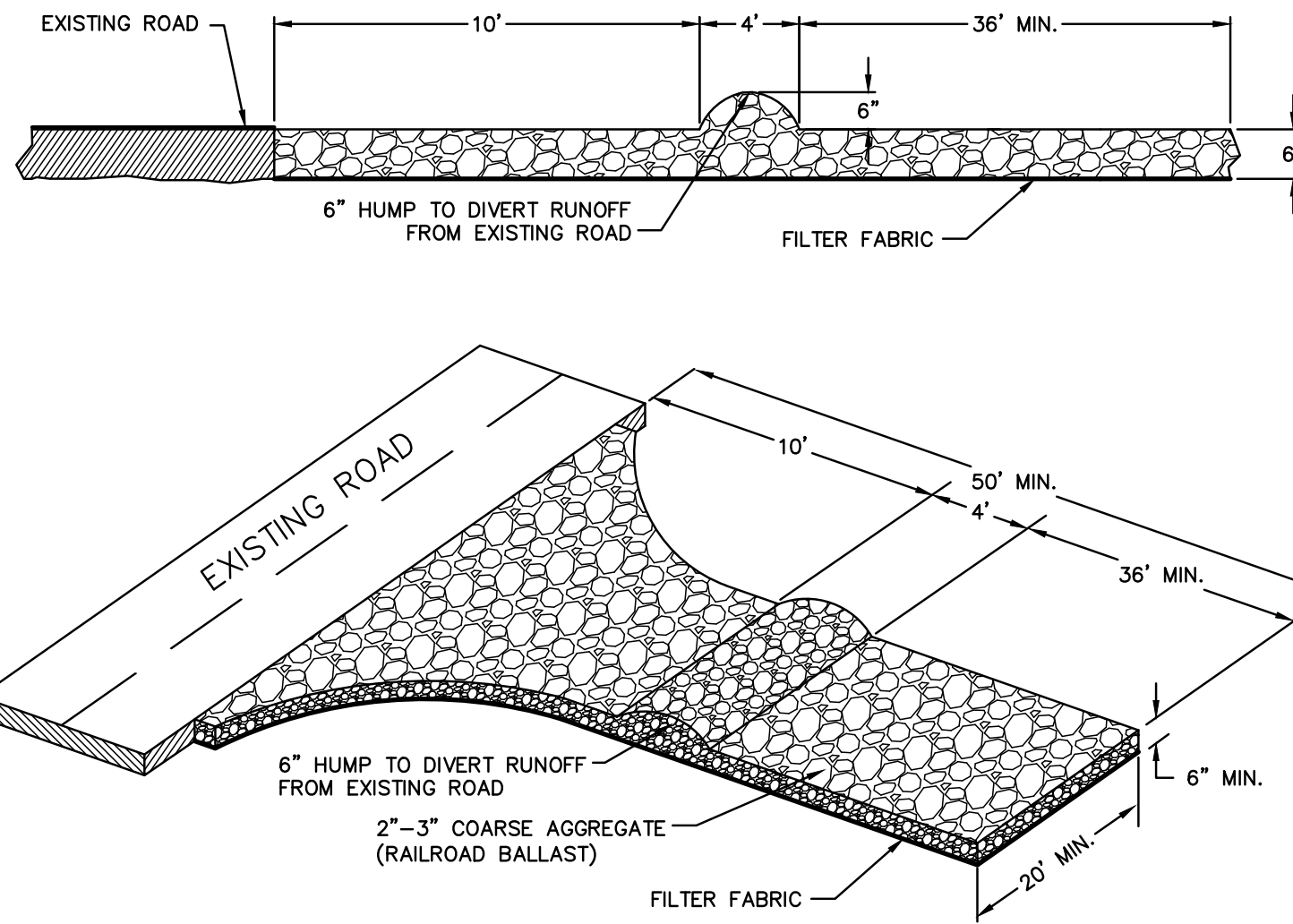
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. SILT FENCE OUTLETS SHALL BE LOCATED AT LOW POINTS IN CONTINUOUS RUNS OF SILT FENCE.



SECTION VIEW

② SILT FENCE - OUTLET

NOT TO SCALE



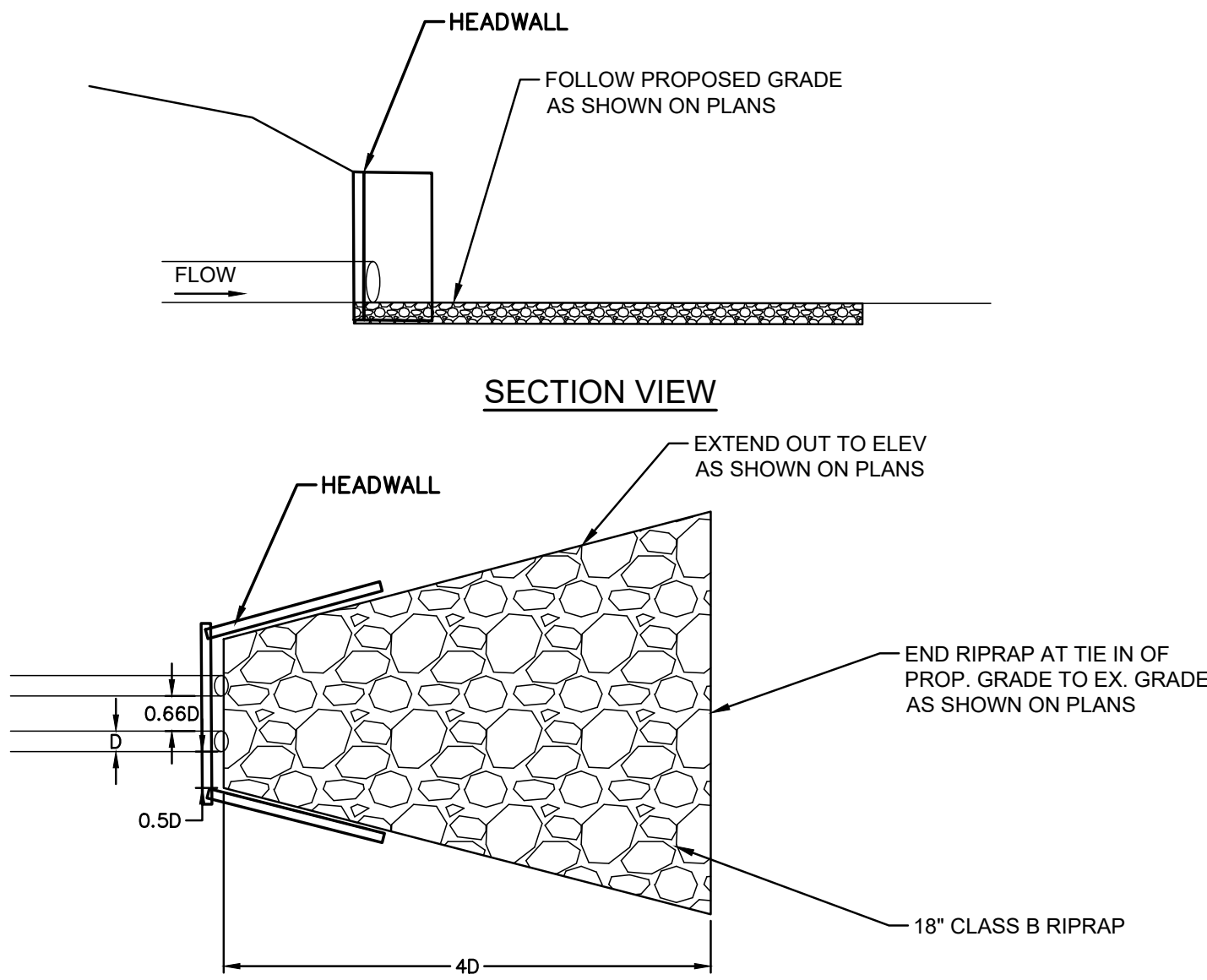
NOTES:

1. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM AN EXISTING ROAD.
2. STONE TO BE 2 - 3 INCH WASHED STONE RAILROAD BALLAST.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. REFERENCE NCDQ LAND QUALITY SECTION DESIGN MANUAL: 6.06.

EC  
24

TEMPORARY CONSTRUCTION ENTRANCE

UPDATED MARCH, 2017  
NOT TO SCALE

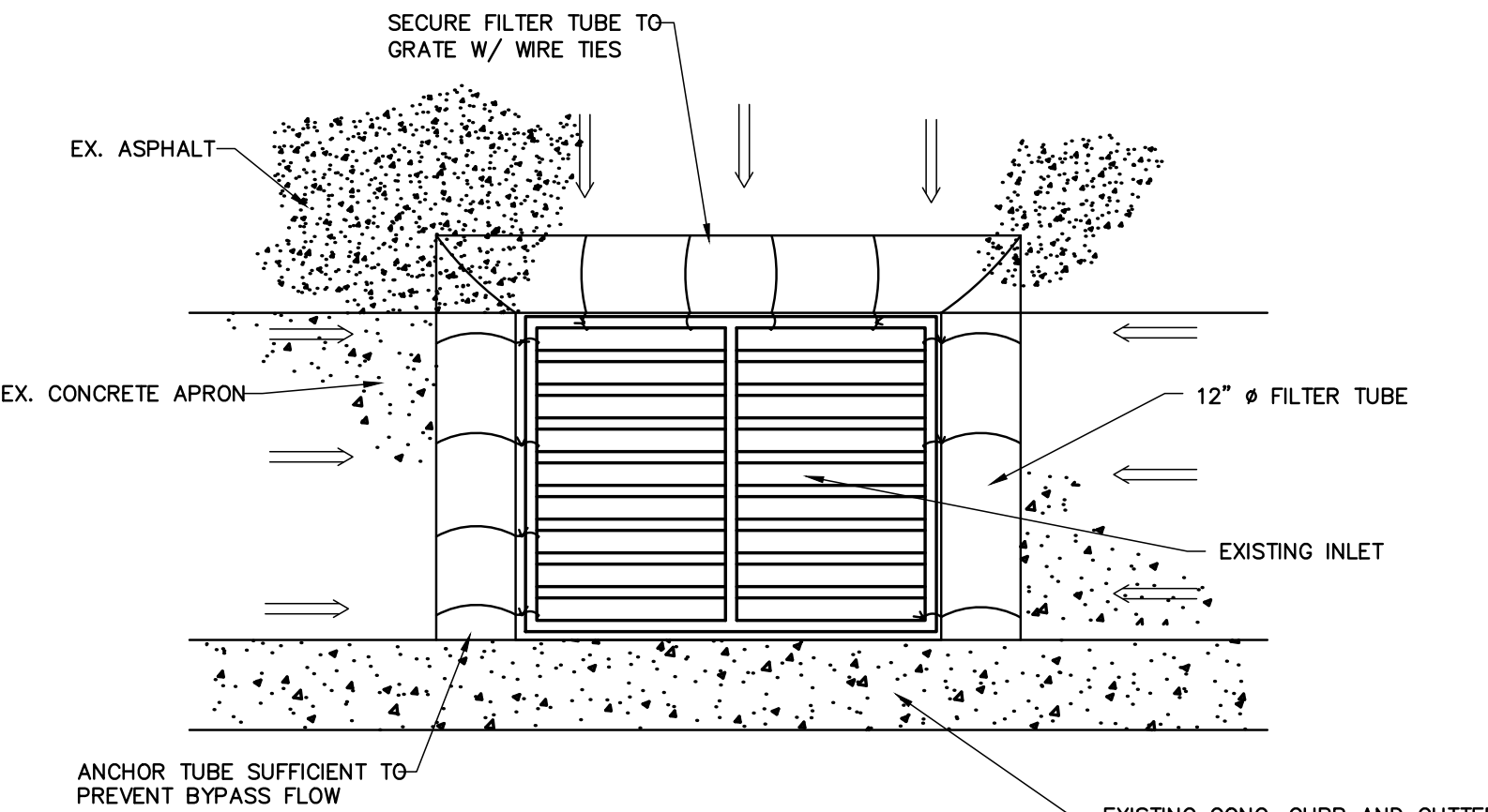


SECTION VIEW

PLAN VIEW

③ PERMANENT RIPRAP OUTLET PROTECTION

NOT TO SCALE



FILTER TUBE INLET PROTECTION -  
PAVED CONDITION - CURB AND GUTTER SECTION

NOT TO SCALE

NOTE:  
REMOVE SEDIMENT FROM BEHIND FILTER TUBE WHEN DEPTH  
HAS REACHED APPROXIMATELY 6"

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

NO.	DATE	BY	DESCRIPTION

50 0 25 50 100 GRAPHIC SCALE DIVISION VALUE = 50 FEET	OFFICE MANAGER B. ROARK DESIGNER C. HEATHCOAT PROJECT MANAGER D. SABEH REVIEWER D. SABEH
---	---

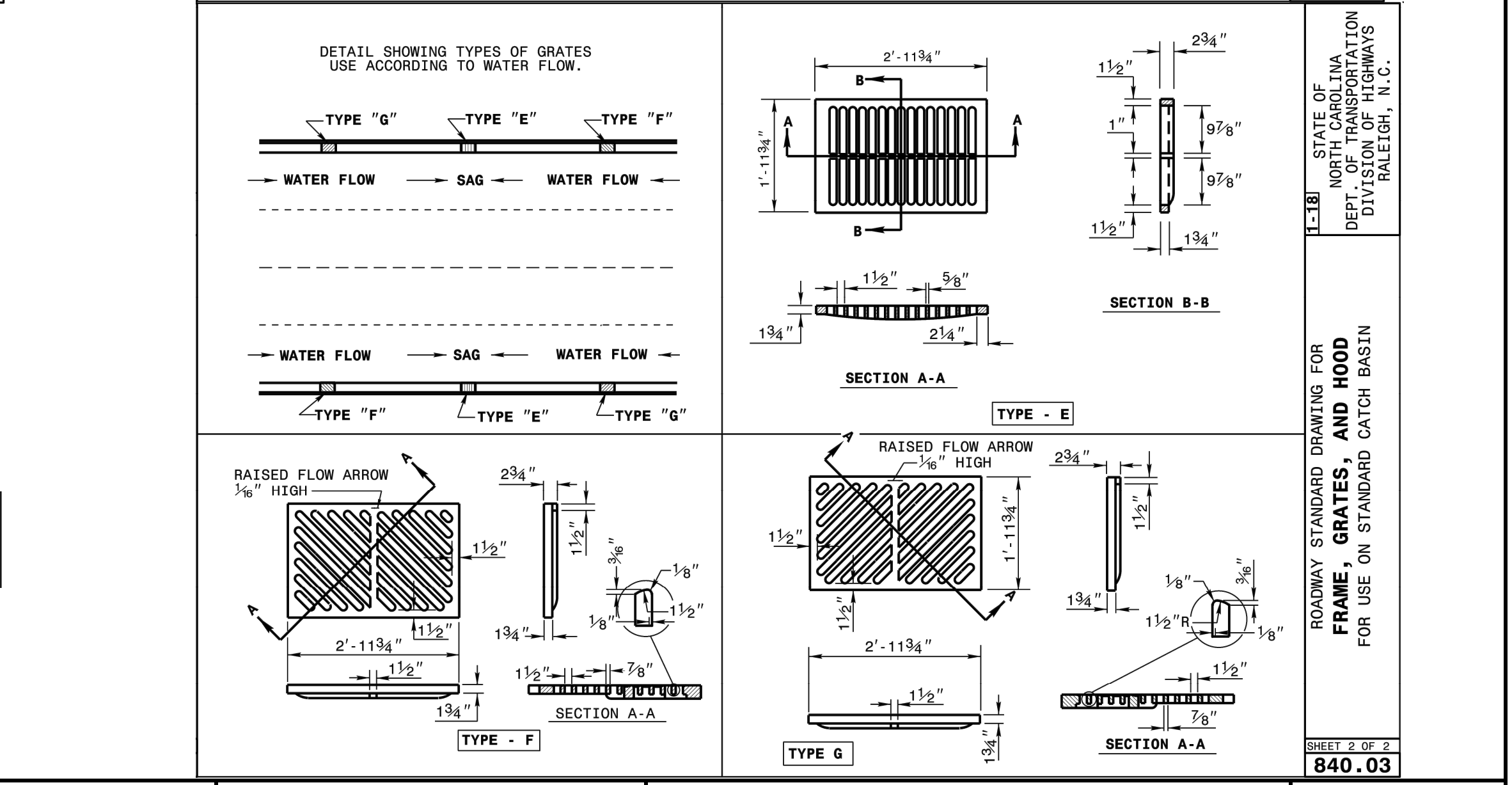
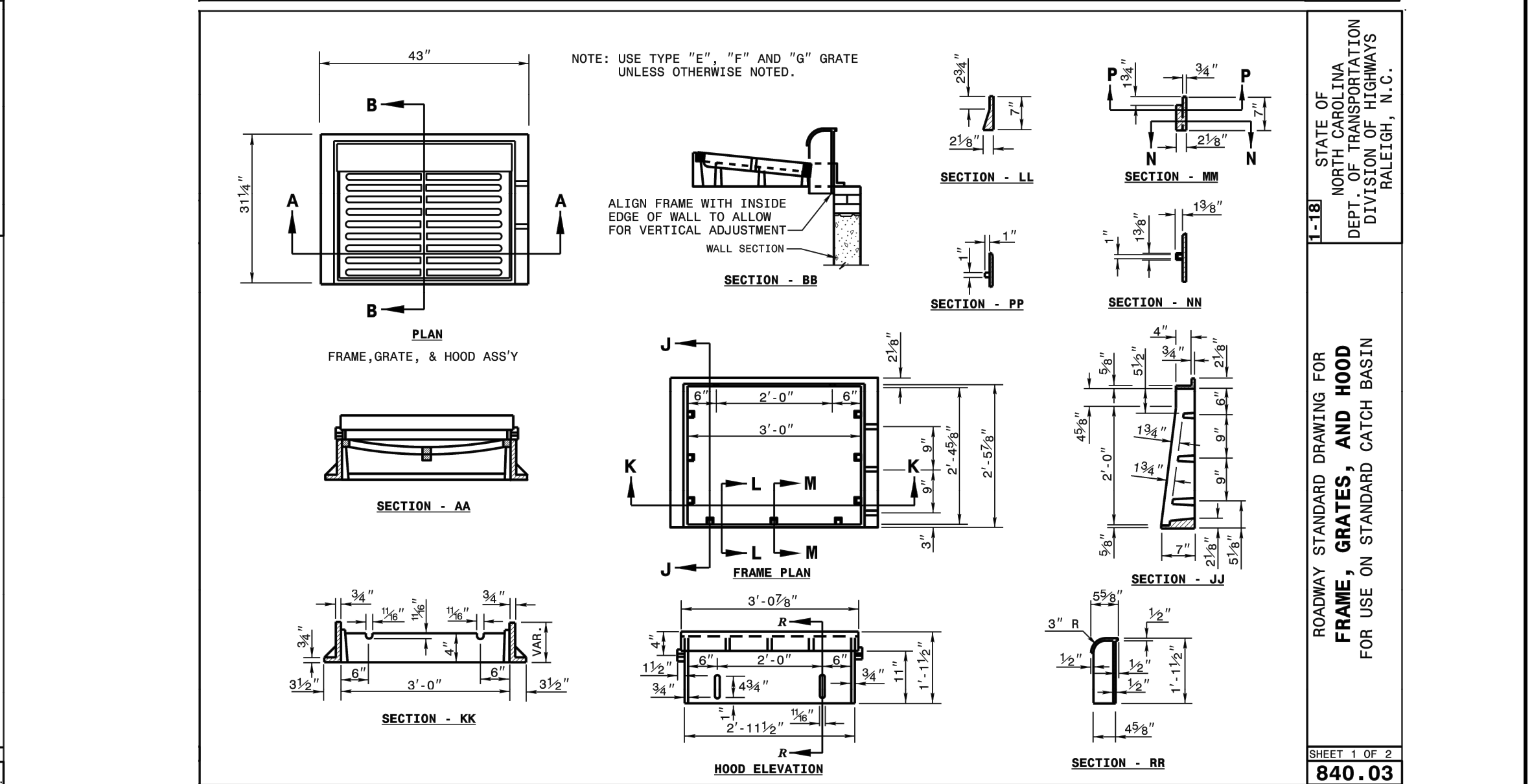
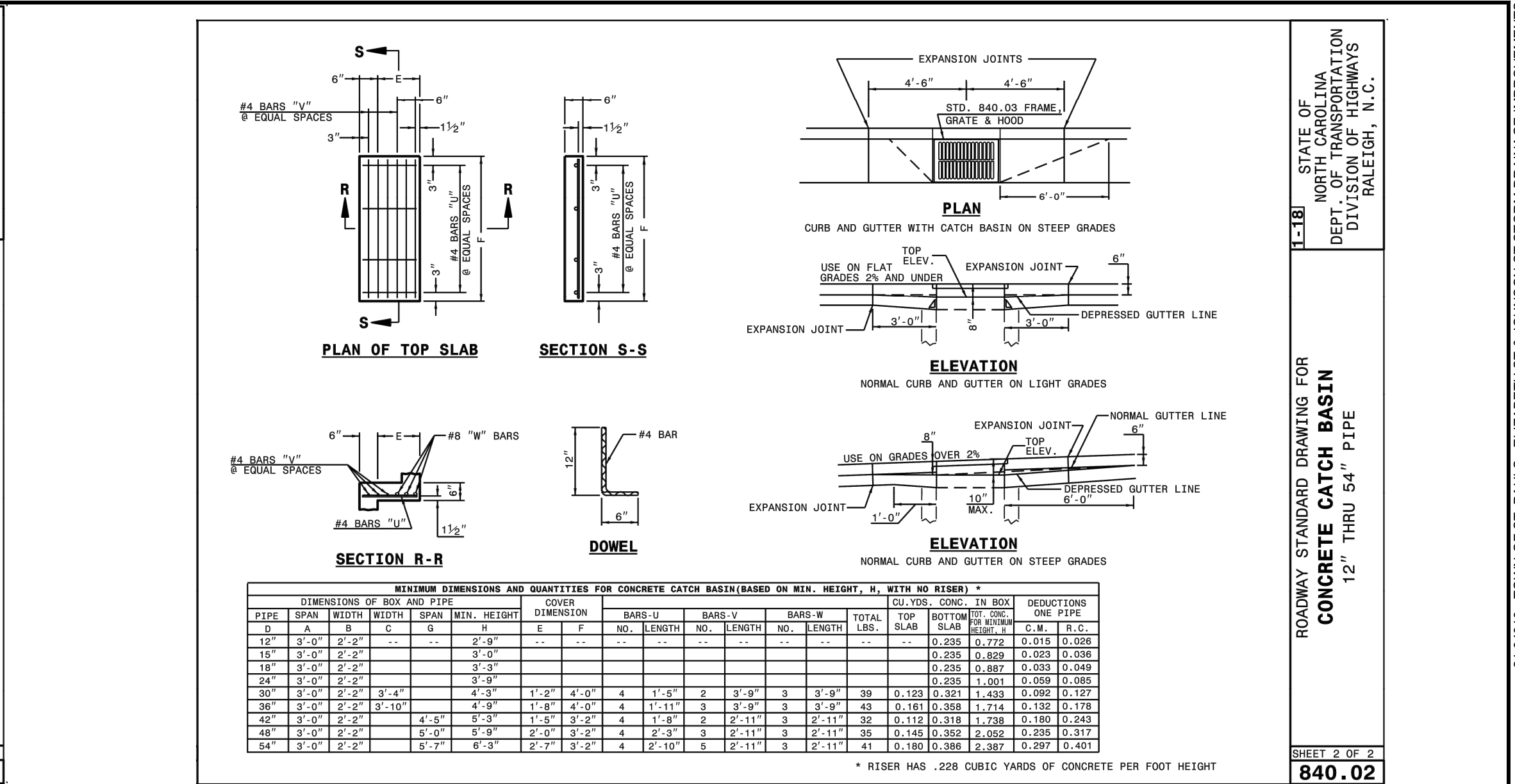
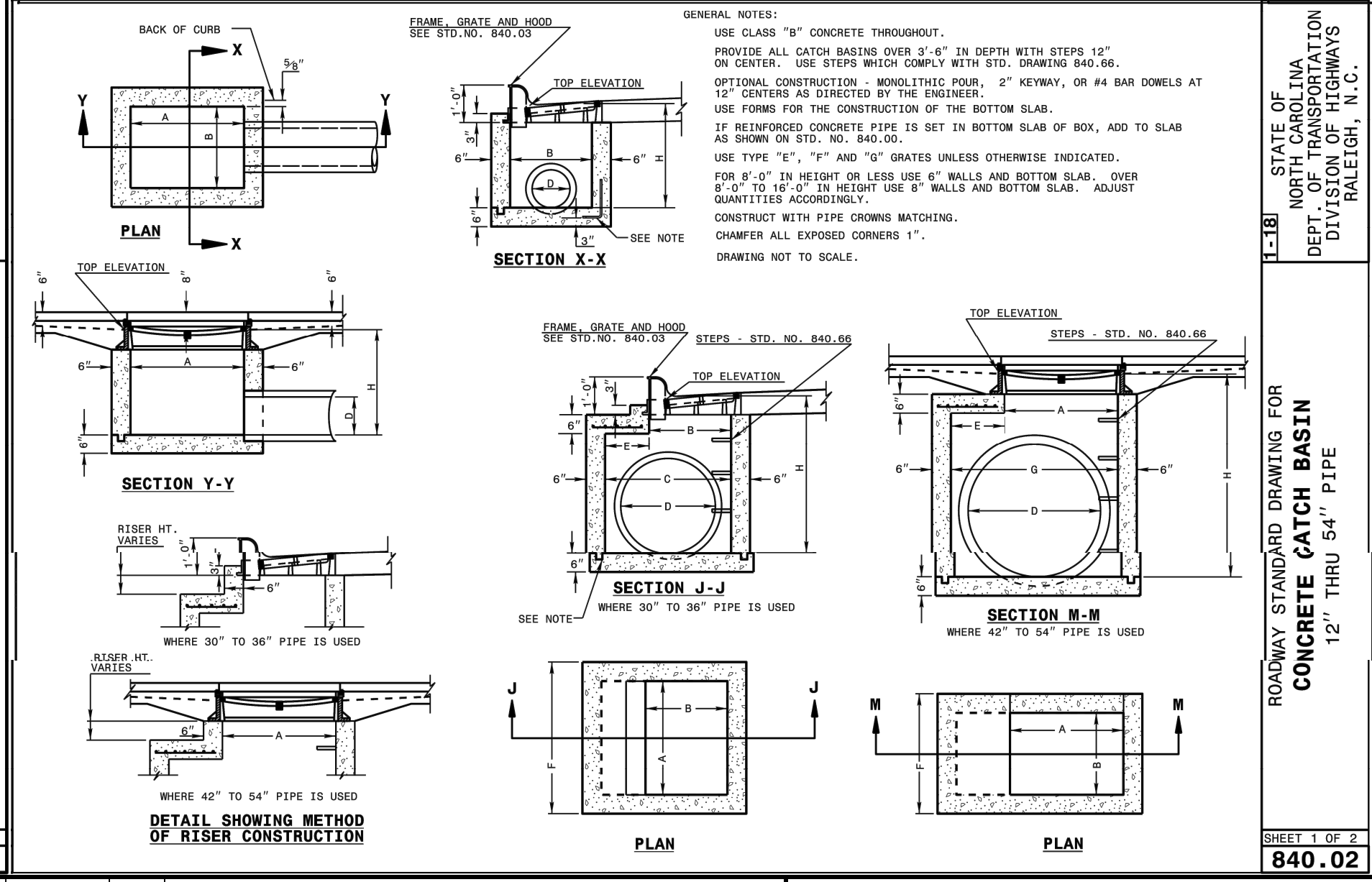
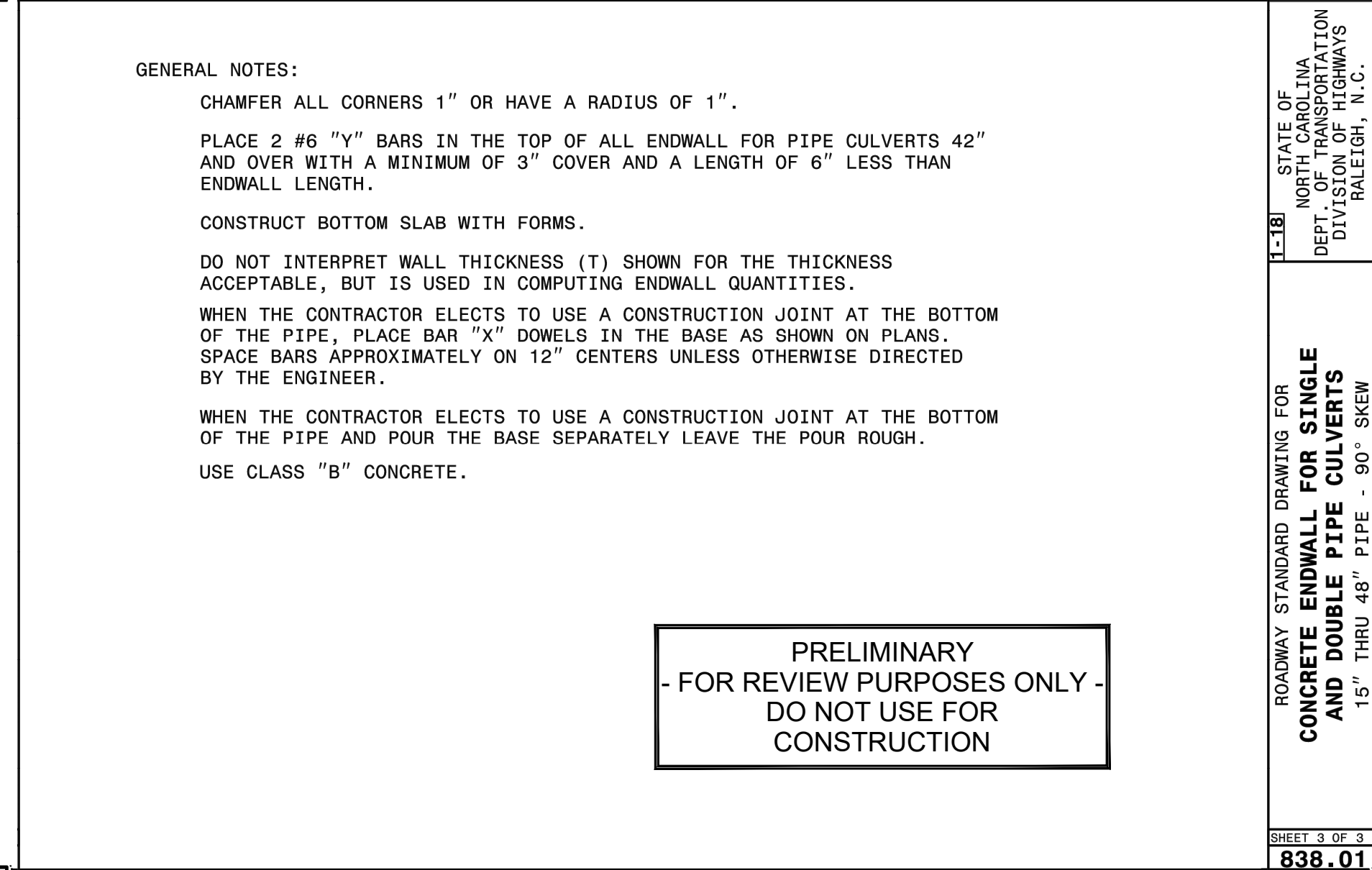
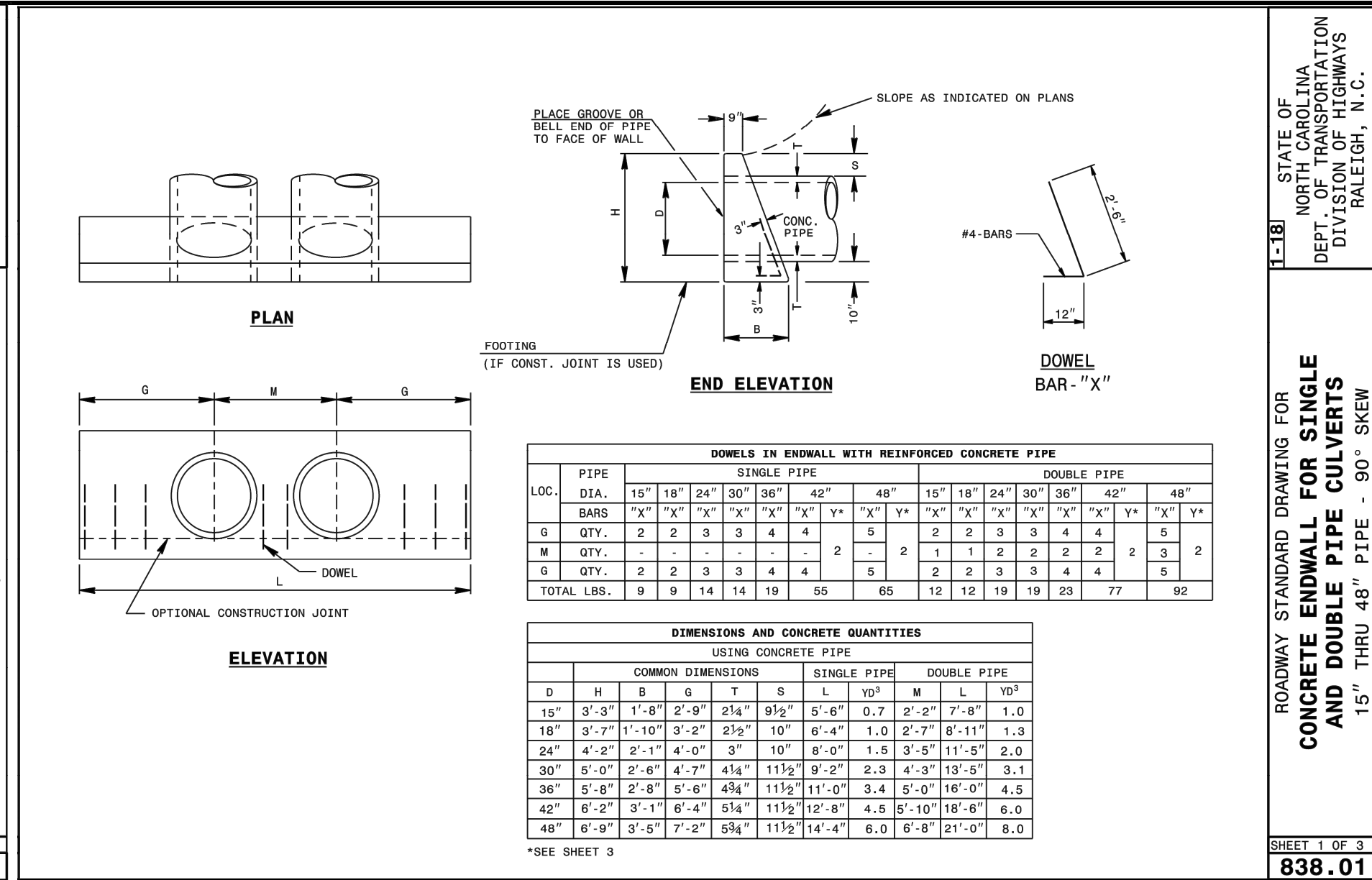
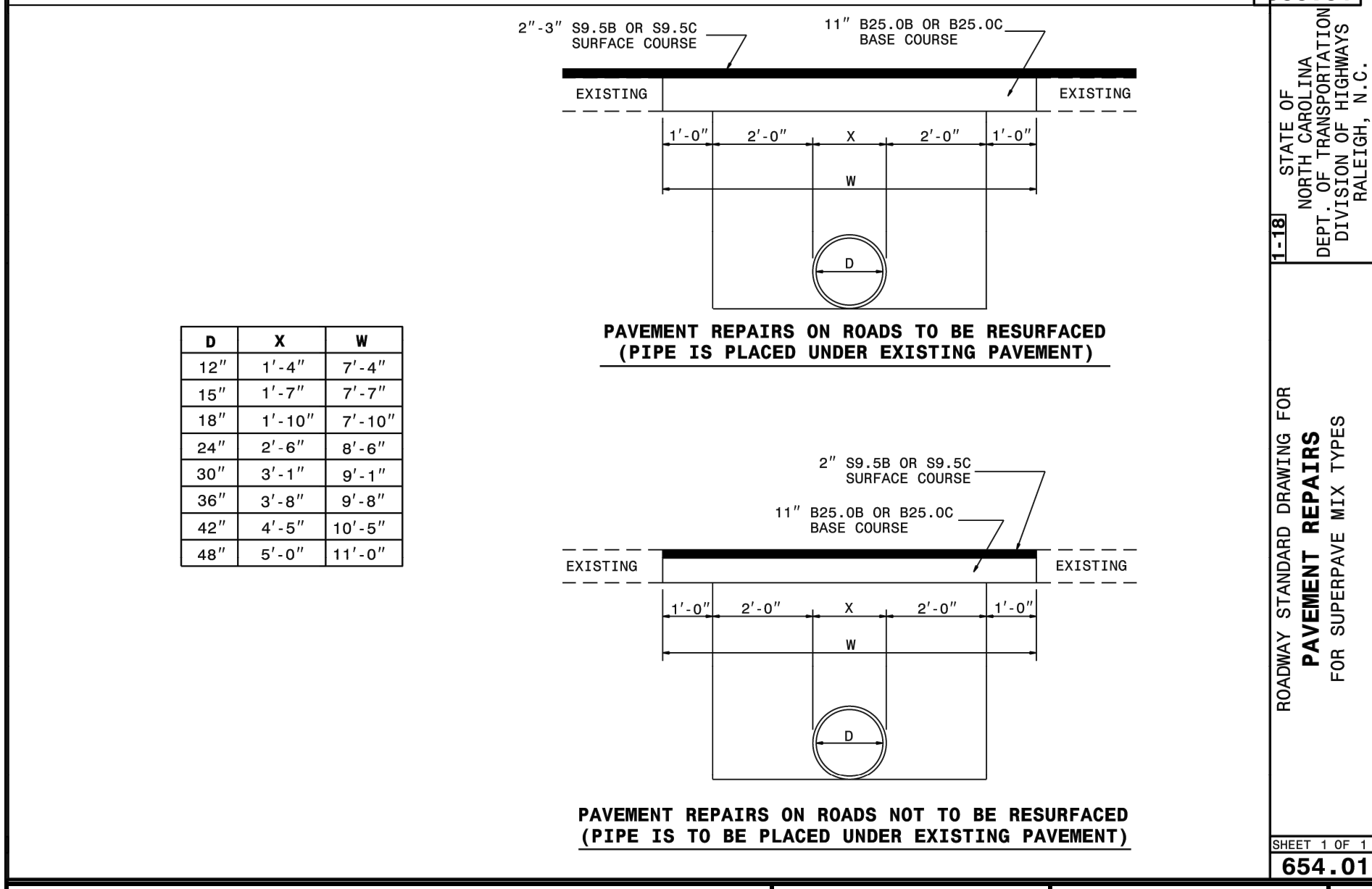
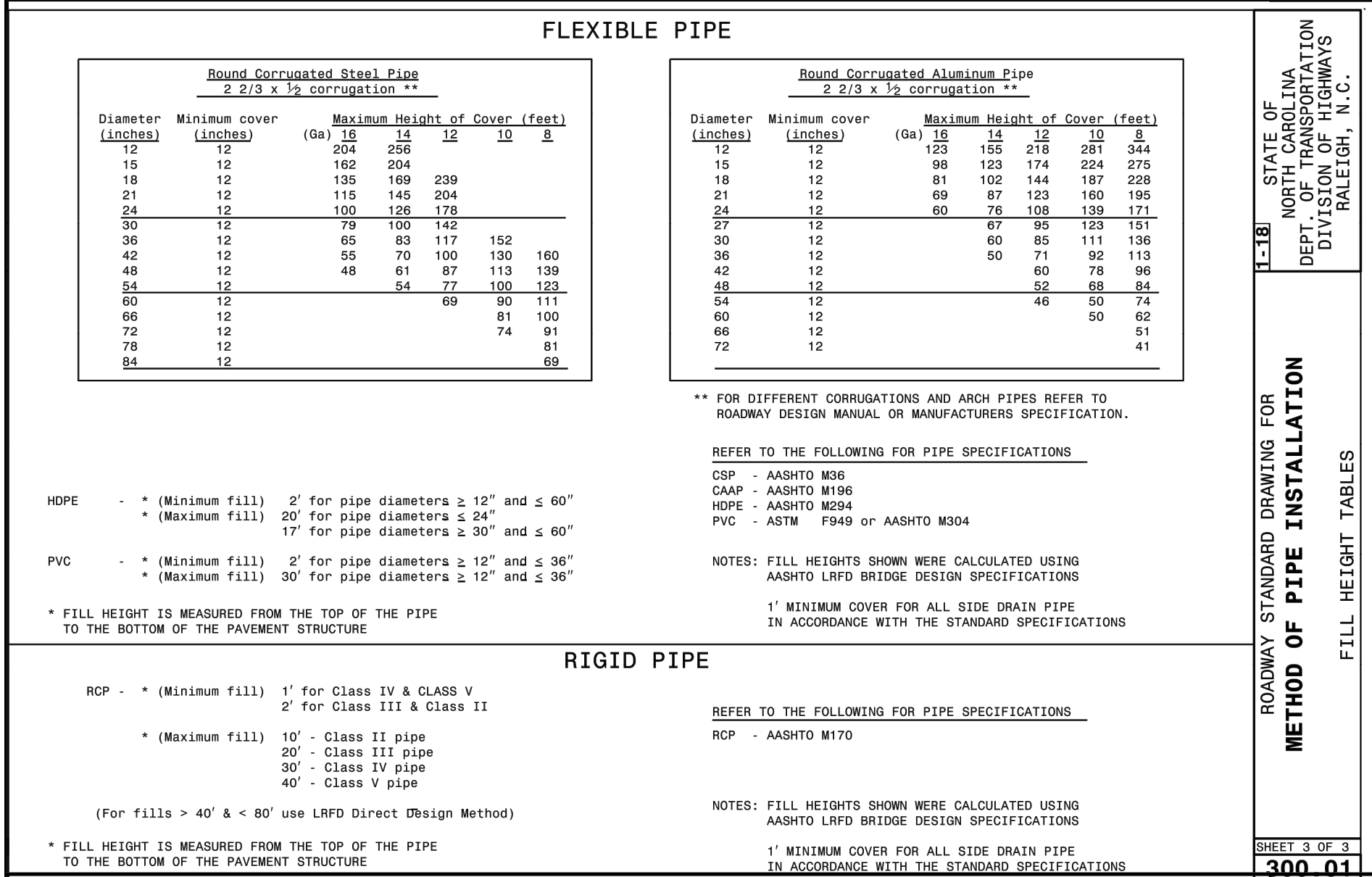
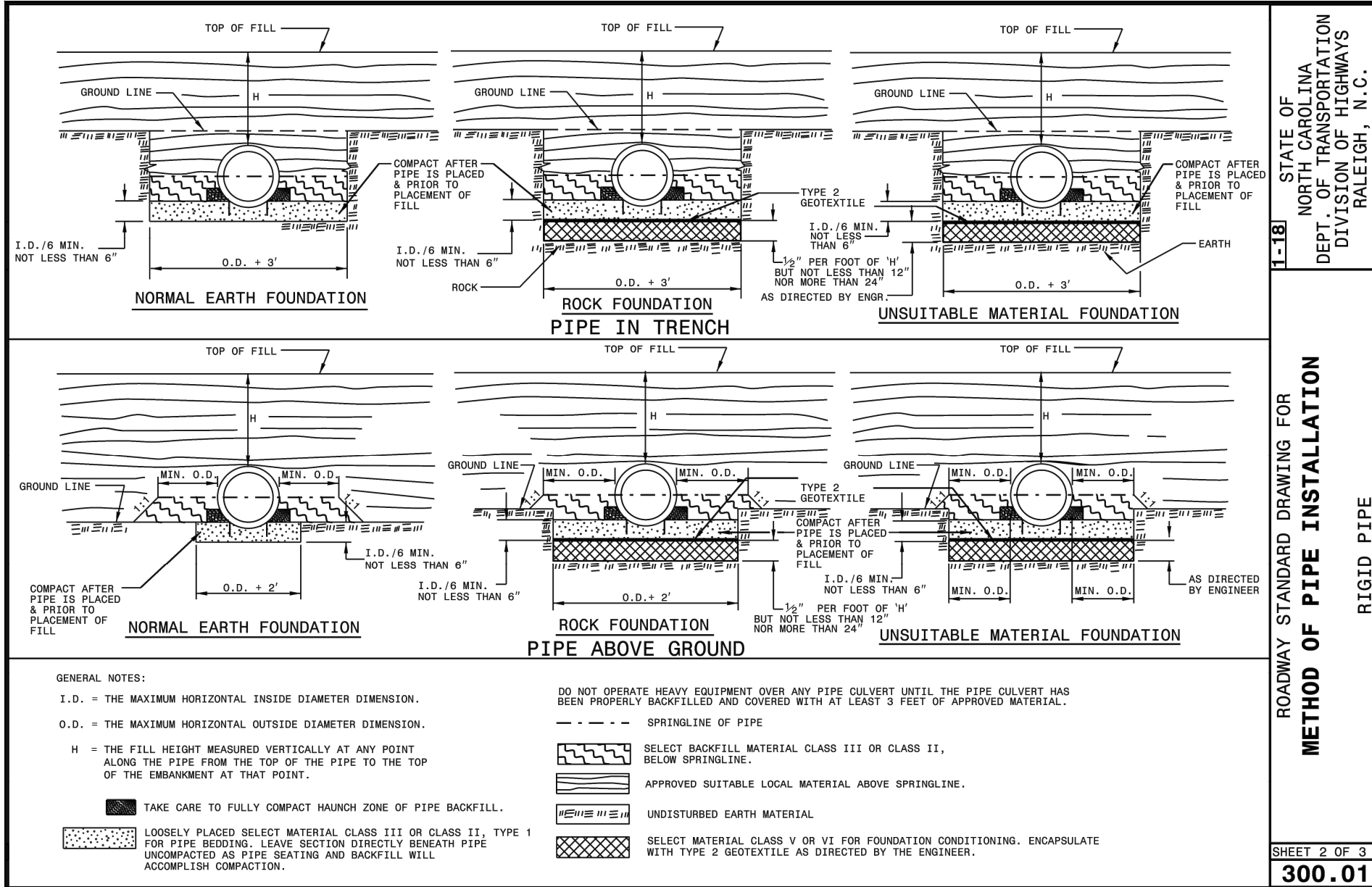
DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A







W:\MCGILL\ENGINEERS\COMPCOMPANY\SHARE\MCGILL PROJECTS\2021\2104018-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE IMPROVEMENTS\DRWG SHEETS\C-31 MISCELLANEOUS DETAILS DWG PLOT DATE 1/31/2023 6:23 PM KALIA BEESLEY



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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NOT TO SCALE

MISCELLANEOUS DETAILS 1 OF 2

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH
DATE FEBRUARY 2023	PROJECT # 21.04018
FUNDING # N/A	

SHEET  
**C-32**







## **ATTACHMENT 1A:**

### **Site Visit Photographs**

## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





# ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





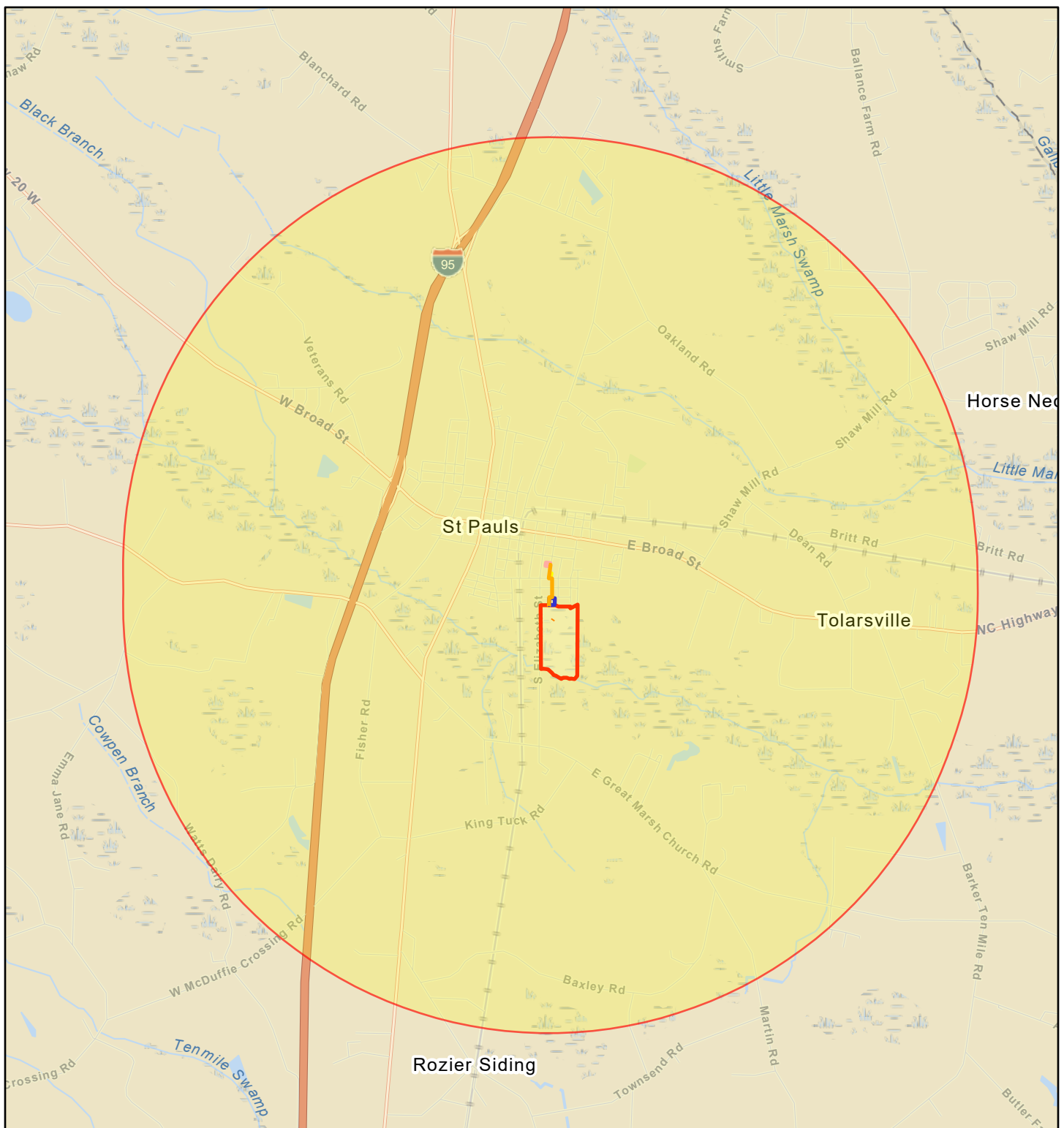
## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS



**ATTACHMENT 2:**

**NEPAssist Maps with  
15,000-foot Buffer Showing  
Airports**

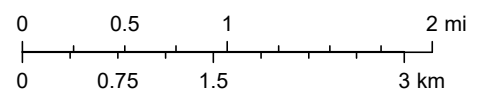
# St. Pauls Flood Improvements - Airports with 15,000-foot Buffer



July 10, 2023

1:72,224

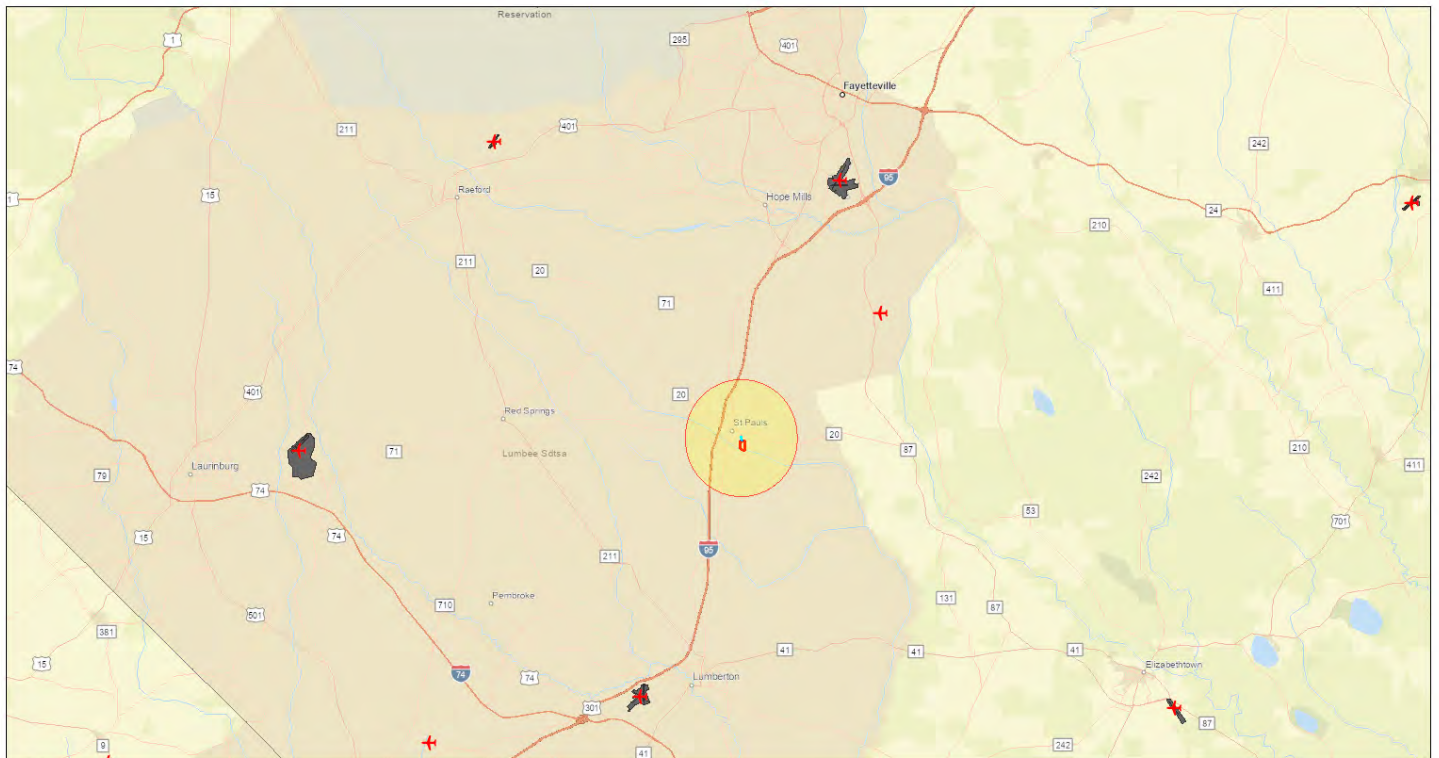
- Project Buffer
- St. Pauls' Southern Project
- St. Pauls' Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP
- + Airport Points
- Airport Polygons



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

# NEPAssist Report

## St. Pauls



July 10, 2023

- Project Buffer
- Calvary Cornerstone Holiness Church
- St. Pauls' Southern Project
- St. Pauls' Northern Project
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP
- Airport Points
- Airport Polygons

1:356,389

0 3.75 7.5 15 mi  
0 5 10 20 km

Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, EPA OEI

Input Coordinates: 34.803264,-78.968167,34.803256,-78.967953,34.801952,-78.968167,34.801934,-78.967781,34.800128,-78.967760,34.800128,-78.968114,34.799300,-78.968135,34.799318,-78.968146,34.799318,-78.968157,34.799300,-78.968167

Length of digitized line	0.33 mi
Within 15000 feet of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 15000 feet of a Federal Land?	no
Within 15000 feet of an impaired stream?	no
Within 15000 feet of an impaired waterbody?	yes
Within 15000 feet of a waterbody?	yes
Within 15000 feet of a stream?	yes
Within 15000 feet of an NWI wetland?	Available Online
Within 15000 feet of a Brownfields site?	yes
Within 15000 feet of a Superfund site?	no

Within 15000 feet of a Toxic Release Inventory (TRI) site?	yes
Within 15000 feet of a water discharger (NPDES)?	yes
Within 15000 feet of a hazardous waste (RCRA) facility?	yes
Within 15000 feet of an air emission facility?	yes
Within 15000 feet of a school?	yes
Within 15000 feet of an airport?	no
Within 15000 feet of a hospital?	no
Within 15000 feet of a designated sole source aquifer?	no
Within 15000 feet of a historic property on the National Register of Historic Places?	no
Within 15000 feet of a Toxic Substances Control Act (TSCA) site?	no
Within 15000 feet of a Land Cession Boundary?	no
Within 15000 feet of a tribal area (lower 48 states)?	no
Within 15000 feet of the service area of a mitigation or conservation bank?	yes
Within 15000 feet of the service area of an In-Lieu-Fee Program?	yes
Within 15000 feet of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 15000 feet of a Munitions Response Site?	no
Within 15000 feet of an Essential Fish Habitat (EFH)?	no
Within 15000 feet of a Habitat Area of Particular Concern (HAPC)?	no
Within 15000 feet of an EFH Area Protected from Fishing (EFHA)?	no
Within 15000 feet of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 15000 feet of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within 15000 feet of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

Created on: 7/10/2023 5:45:23 PM

## **ATTACHMENT 3:**

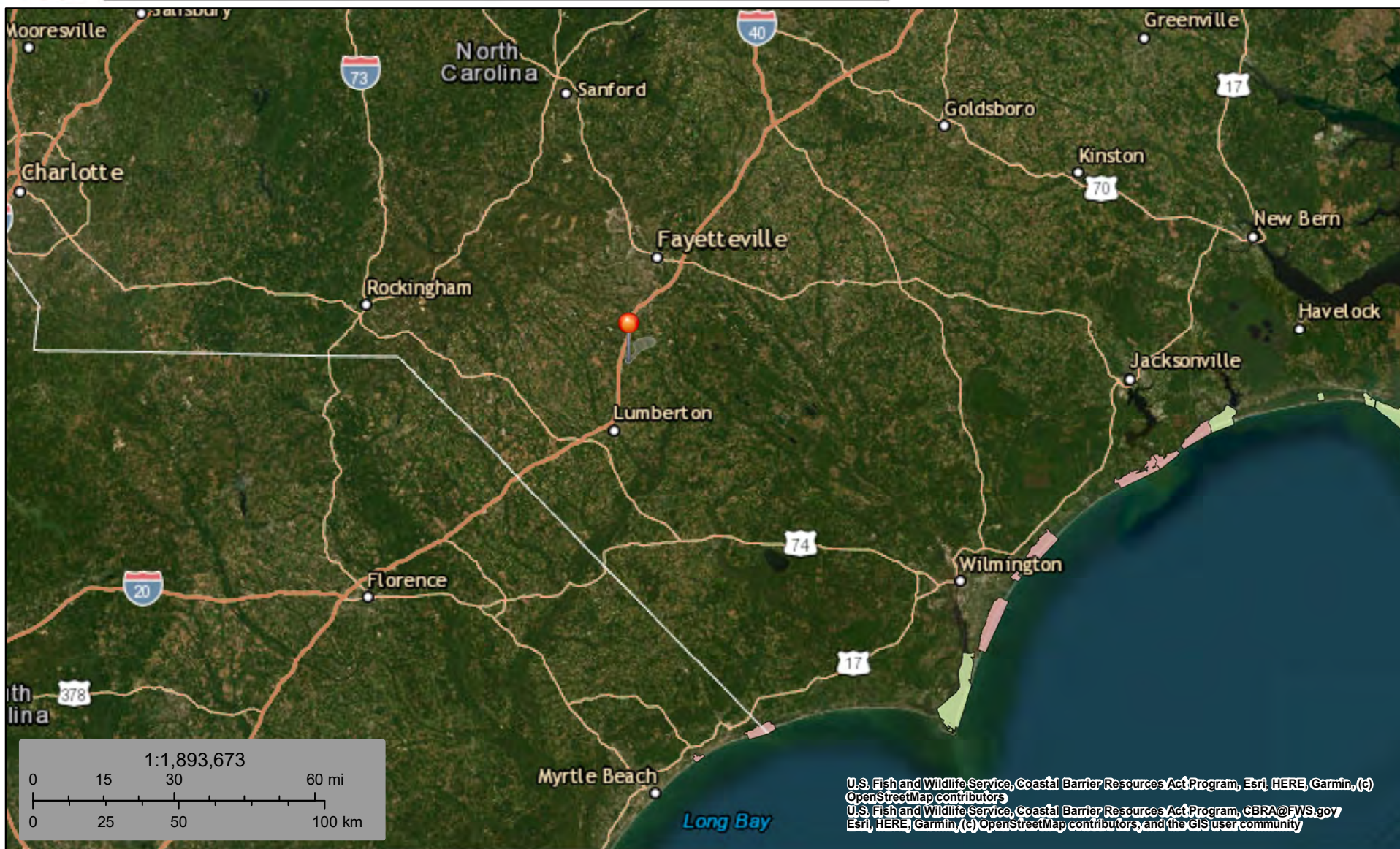
### **USFWS CBRS Map and Certification**





# U.S. Fish and Wildlife Service Coastal Barrier Resources System

## St. Pauls Flood Improvements



June 8, 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




## Coastal Barrier Resources System Mapper Documentation



### CBRS Units

-  Otherwise Protected Area
-  System Unit
-  CBRS Buffer Zone
-  -78.967802, 34.80077

0 65 130 260 390 ft  
1:4,514

 The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. **The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance.** Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

**User Name:** Andrea Gievers

**User Organization:** NCORR

**User Supplied Address/Location Description:** St. Pauls Flood Improvements

**Pin Location:** Outside CBRS

**Pin Flood Insurance Prohibition Date:** N/A

**Pin System Unit Establishment Date:** N/A

The user placed pin location is not within the CBRS. The official CBRS maps are accessible at <https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps>.

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 6/8/2023 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: <https://www.fws.gov/node/263838>.





## **ATTACHMENT 4:**

### **FEMA FIRMettes with Parcels' Boundaries**

# St. Pauls Flood Improvements - FEMA FIRM

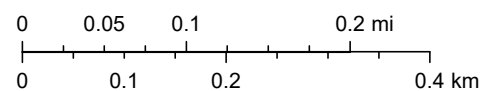


June 8, 2023

1:9,028

## Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard



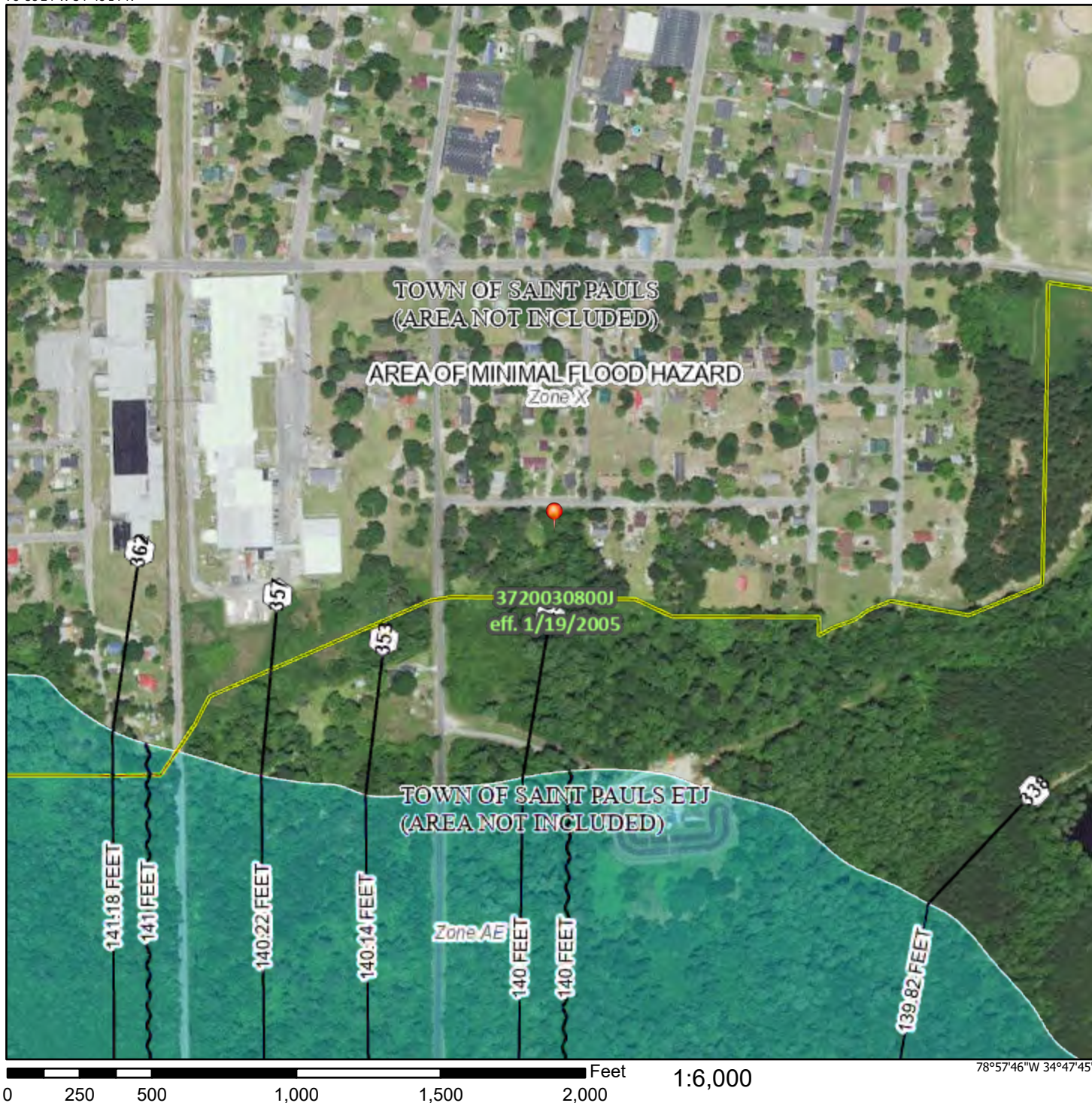
NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



# National Flood Hazard Layer FIRMette



78°58'24"W 34°48'14"N



## 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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		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



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 6/8/2023 at 10:06 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.

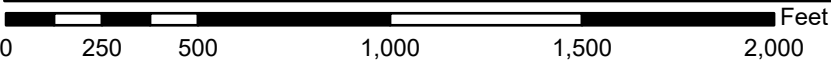
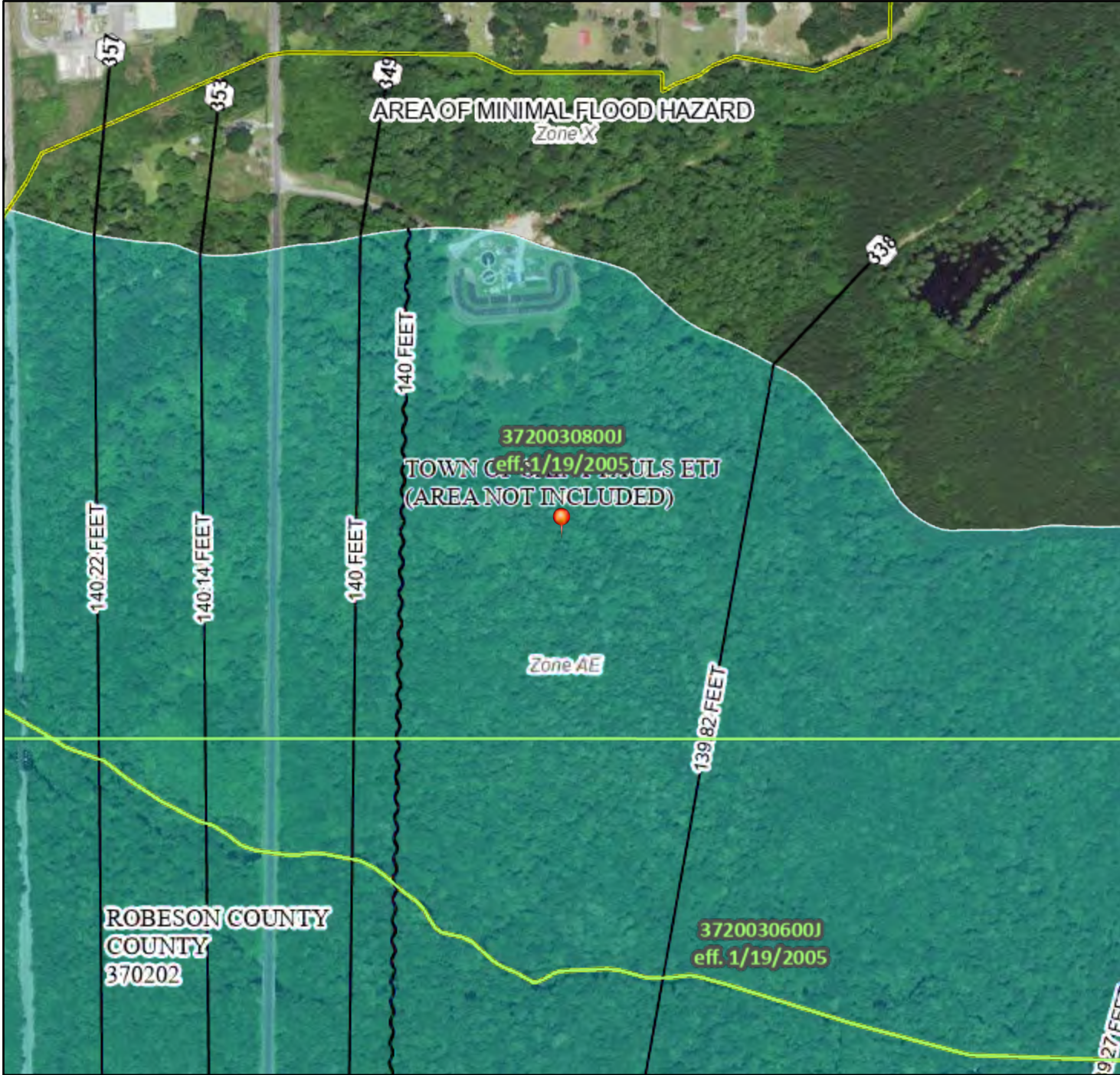
Basemap Imagery Source: USGS National Map 2023



# National Flood Hazard Layer FIRMette



78°58'18"W 34°47'59"N



1:6,000

78°57'41"W 34°47'30"N

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



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 7/18/2023 at 2:38 PM 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#	RHODISS, 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#	ROXBEL, 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 EPA NC Radon Level Map**





You are here: EPA Home > Green Book > >National Area and County-Level Multi-Pollutant Information >North Carolina Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

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

Data is current as of June 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<sup>3</sup>) 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

**Robeson County is not listed below.**

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	04050607080910111213	01/02/2014	Moderate	Whole	178,011	37/025
Cabarrus County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Part	176,928	37/025
Catawba County	PM-2.5 (1997)-NAAQS revoked	Hickory-Morganton-Lenoir, NC	050607080910	12/19/2011 *	Former Subpart 1	Whole	154,358	37/035
Chatham County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	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	050607080910	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	04050607080910111213	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	04050607080910111213	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	04050607080910111213	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	929394	07/05/1995	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (1997)-NAAQS revoked	Charlotte-Gastonia-Rock Hill, NC-SC	04050607080910111213	01/02/2014	Moderate	Whole	919,628	37/119
Mecklenburg County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	08/27/2015	Marginal	Whole	919,628	37/119
Mecklenburg County	Carbon Monoxide (1971)	Charlotte, NC	929394	09/18/1995	Not Classified	Whole	919,628	37/119
Nash County	8-Hour Ozone (1997)-NAAQS revoked	Rocky Mount, NC	040506	01/05/2007	Former Subpart 1	Whole	95,840	37/127
Orange County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	12/26/2007	Former Subpart 1	Whole	133,801	37/135
Person County	8-Hour Ozone (1997)-NAAQS revoked	Raleigh-Durham-Chapel Hill, NC	040506	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	04050607080910111213	01/02/2014	Moderate	Whole	138,428	37/159
Rowan County	8-Hour Ozone (2008)	Charlotte-Rock Hill, NC-SC	121314	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	040506070809	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	04050607080910111213	01/02/2014	Moderate	Whole	201,292	37/179



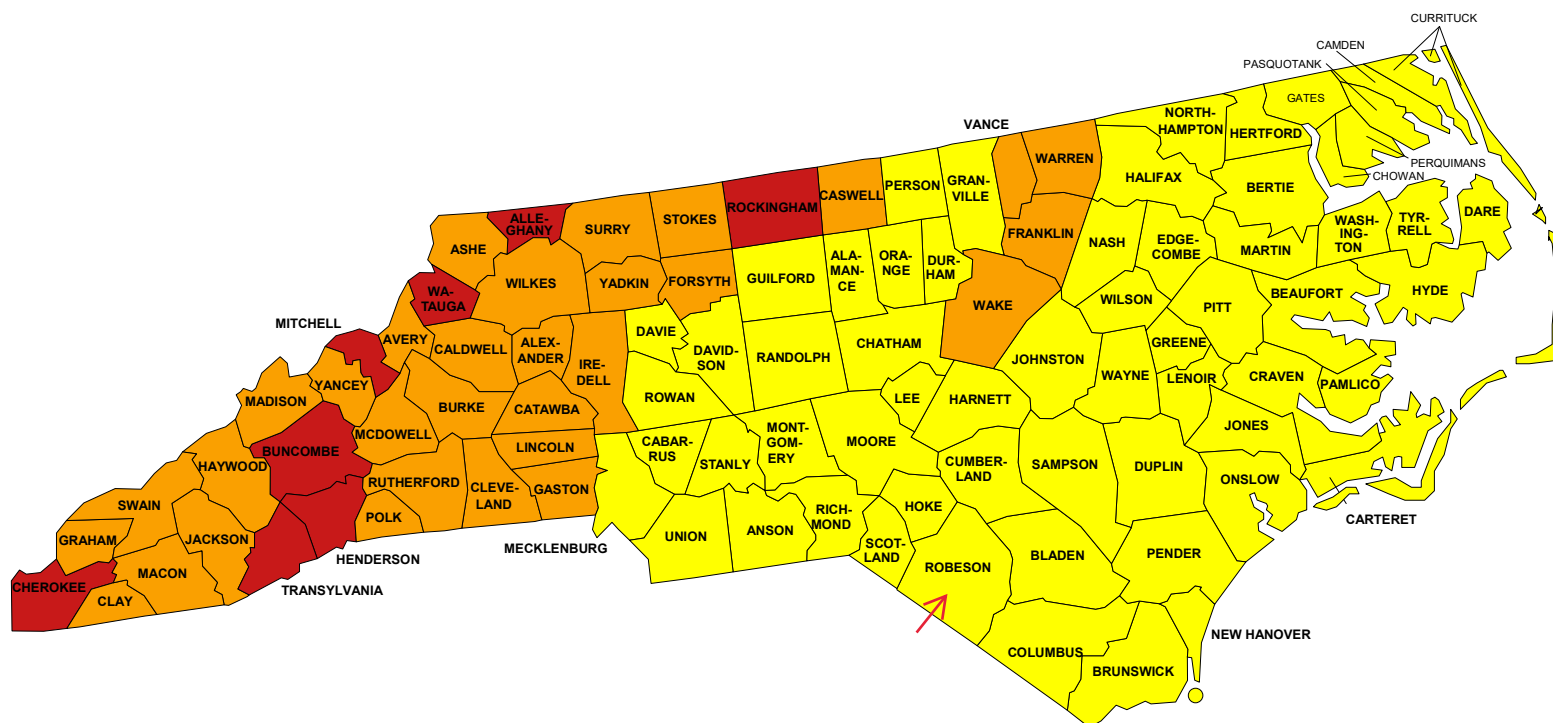
# NORTH CAROLINA - EPA Map of Radon Zones

<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.***



Zone 1



Zone 2



Zone 3

**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.


## **ATTACHMENT 6:**

### **Division of Coastal Zone Management Counties List and Map**



## 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		
<ul style="list-style-type: none"><li>• Beaufort</li><li>• Bertie</li><li>• Brunswick</li><li>• Camden</li><li>• Carteret</li><li>• Chowan</li><li>• Craven</li><li>• Currituck</li><li>• Dare</li><li>• Gates</li></ul>	<ul style="list-style-type: none"><li>• Hertford</li><li>• Hyde</li><li>• New Hanover</li><li>• Onslow</li><li>• Pamlico</li><li>• Pasquotank</li><li>• Pender</li><li>• Perquimans</li><li>• Tyrrell</li><li>• Washington</li></ul>	

Showing 1 to 1 of 1 entries

## About Coastal Management



## **ATTACHMENT 7:**

### **Contamination and Toxic Substances**

HUD Environmental Standards Review,  
NEP Assist EPA Facilities Reports with 1-mile  
and 0.5-mile Buffers, NC DEQ DWM Site  
Locator Reports with 1-mile, 0.5-mile and 3,000-  
foot Buffers, Facility Reports, Site Inspection  
Documentation, and Historic Aerials

# **Town of St. Pauls Flood Improvements -**

## **HUD Environmental Standards Review**

**Subject Property Address:** South Johnson Street, East Clark Street, South Elizabeth Street, East Ross Street; and Calvary Cornerstone Holiness Church (Parcel ID 381404009, 0.34 acre); 400 East Ross Street (Parcel ID 38160204101, 1.3 acres); 401 East Clark Street (Parcel ID 38140401401, 0.17 acre); and Town of St. Pauls' Waste Water Treatment Plant (WWTP) parcel (Parcel ID 212002007, Pin 30890981900, 73.92 acres) in St. Pauls, Robeson County, NC 28384

### **Introduction**

The purpose of this review is to ensure that the project complies with U.S. Department of Housing and Urban Development (HUD) environmental standards in relation to 24 CFR Part 58.5. Properties that are proposed for use in HUD programs “must be free of 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 property.”

A desktop review was performed to identify whether the Subject Property referenced in the title of this document complies with the following criteria:

- (i) is not Listed on an U.S. Environmental Protection Agency (EPA) Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List, or equivalent State list;
- (ii) is not located within 3,000 feet of a toxic or solid waste landfill site;
- (iii) does not have an underground storage tank; and
- (iv) is not known or suspected to be contaminated by toxic chemicals or radioactive materials.

### **Subject Property Records Review**

**EPA Records:** According to NEPAassist, the Subject Property is not identified on a list of Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List, or equivalent State list compiled by the U.S. EPA. A review of the U.S. EPA Facilities Database provides no indication of past of the Subject Property that could have contaminated the Subject Property or could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

**North Carolina Department of Environmental Quality (NC DEQ) Records:** The NC DEQ Division of Waste Management (DWM) UST Section, Fayetteville Regional Office, does not have record of a petroleum release in the general area of the proposed project area, nor are there any records of registered USTs located within this area (*See Attachment 20 – State Environmental Clearinghouse Comments*).

**County/Region/Town Records:** None.

**Historic Aerials:** The St. Pauls WWTP is visible in the February 1993 USGS aerial. The Calvary Cornerstone Holiness Church main building appears to have been built between 1999 and 2005 along with more houses across South Johnson Street. The residential neighborhood and streets have been substantially unchanged since 1993. There is no past use visible in historical aerials that could pose a hazard that could

affect the health and safety of occupants or conflict with the intended utilization of the Subject Properties for stormwater infrastructure improvements. The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development. Some of the historic aerials reviewed are included in **Attachment 7**.

**Site Inspection:** A site inspection was performed on the Subject Property on March 12, 2022 by Bill Blankenship, Project Manager, HGA, LLC, and no nuisances and hazards were identified. There have been no land use changes to the Subject Property since the time of site inspection. A Site Visit Questionnaire has been completed and is included in **Attachment 7**. McGill Associates, PA (McGill) has also conducted site visits to the Subject Property. Thus, no hazards were present during the site inspection that would pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

**Site History:** The majority of the proposed project activities will take place in and along residential streets and at existing culverts that have been previously disturbed with utilities/culvert installations, road work, and development. Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation (**Attachment 20**).

## **Surrounding Properties Records Review**

**EPA Records:** According to NEPAassist, there are no air emission facilities or federal Superfund sites located within a one-mile radius search of the Subject Property. According to NEPAassist, there is one Brownfield site located within a one-mile radius search of the Subject Property. The Brownfield site, *McMillan Shuler Oil*, Mill Street, St. Pauls, NC 28384 is located approximately 0.19-mile from the Subject Property. *McMillan Shuler Oil* completed a Phase I ESA in 2009 and no Institutional or Engineering Controls were required for petroleum. Former Use: 0.08-acre Property exists as a vacant refueling station for the nearby and adjacent railroad. The property has four aboveground storage tanks, a small multi-level platform with two fueling booms, and two small buildings. The 1928 Sanborn Fire Insurance map indicates this property has previously been the railroad right-of-way. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the release and the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply.

According to NEPAassist, there is one TRI facility located within a one-mile radius search of the Subject Property. The TRI facility, *The Manning Corp.*, is located approximately 0.20-mile from the Subject Property and identified under broad-woven fabric mill with last reporting in 1991. This site is discussed further below under the RCRA Hazardous Waste Facilities section.

According to NEPAassist, the *Town of St. Pauls Waste Water Treatment Plant* is identified as the only Water Discharger (NPDES) located within a one-mile radius search of the Subject Property. The WWTP is permitted and has been in noncompliance with Clean Water Act for Mercury, Nitrogen-ammonia, and Flow in conduit or through treatment plant. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply or contribute to waste water in the area and the location of proposed disturbance.

According to NEPAassist, there are seven RCRA Hazardous Waste Facilities located within a one-mile radius search of the Subject Property. Two of these RCRA sites, *Carolina Mills 25* and *Carolina Mills 26*, are identified as In Compliance, in Inactive Status, and permanently closed according to the EPA's Air Pollution Data (ICIS-AIR) with the last compliance monitoring in August 1996. These facilities would not

pose a hazard or conflict with the intended utilization of the Subject Property because of their In Compliance, in Inactive Status, and permanently closed status. *Mine Safety Appliances Co.* is located approximately 0.16-mile from the Subject Property, and is a permitted RCRA Very Small Quantity Generator (VSQG) for ignitable waste in surgical appliance and supplies manufacturing. This facility as a VSQG with no recent violations would not pose a hazard or conflict with the intended utilization of the Subject Property. *Hughes Automotive* located approximately 0.76-mile from the Subject Property is in Inactive Status with the last compliance monitoring in July 2006 and no additional RCRAInfo facility information available. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because of the Inactive Status. *The Manning Corp.* located approximately 0.20-mile from the Subject Property is in Inactive Status and identified in RCRAInfo for ignitable waste. *The Manning Corp.* is identified under broad-woven fabric mill with last compliance monitoring in August 1998 and no violations in the previous 12 quarters. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because of the Inactive Status and no recent violations. *Fields Garage & Towing* located approximately 0.61-mile from the Subject Property is in Inactive Status with the last compliance monitoring in February 2013 and no additional RCRAInfo facility information available. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because of the Inactive Status. *St. Pauls Complaint site*, 803 5<sup>th</sup> Street, is located 0.99-mile north of the Subject Property, is in Inactive Status and has no violations in the previous 12 quarters. This facility would not pose a hazard or conflict with the intended utilization of the Subject Property because of the Inactive Status and no recent violations.

Thus, no hazards are present in an EPA records review that would pose a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

**NC DEQ DWM Records:** According to NC DEQ Division of Waste Management (DWM) comments, no Superfund Section sites were identified within one mile of the Subject Property (*See Attachment 20*). Also, according to the DWM comments, there are no Certified DSCA Sites, Federal Remediation Branch Sites, Inactive Hazardous Sites, Pre-regulatory Landfill Sites, or Brownfields Program Sites located within a one-mile radius search of the Subject Property (*See Attachment 20*).

There are two Permitted Solid Waste Landfills located within a one-mile radius search of the Subject Property. The *78A-DEMO-1980* Permitted Solid Waste Landfill and Land Clearing and Inert Debris (LCID) Notification for *St. Pauls Demolition Site #78A* is identified on the Town of St. Pauls' WWTP parcel. The proposed project activities will not disturb this portion of the site but rather is focused on the culvert replacement area under the WWTP Access Road and south of East Ross Street alongside a residential parcel on the northern boundary of the parcel. Thus, this facility would not pose a hazard or conflict with the intended utilization of the Subject Property. The other sanitary landfill (demolition-landscape) site is the *Fields Site-James Fields Demolition Landfill* located west of the WWTP parcel. This site was closed in 1993 and was noted as having no violations, permit conditions and operational requirements followed, and no wastes received in one year. The *Fields Site* is located approximately 0.58-mile from the Subject Property with an 0.5-mile HUD standard requirement for a State and Tribal Landfill and/or Solid Waste Disposal Site Lists search radius. Thus, this facility would not pose a hazard or conflict with the intended utilization of the Subject Property. Overall, these facilities would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply and the location of proposed disturbance.

Two Dry Cleaners located within 0.5-mile from the Subject Property are *Kelly's Cleaners*, 115 East Broad Street, St. Pauls, NC and *Village Square Laundry*, 347 South 5th Street, St. Pauls, NC. *Kelly's Cleaners*, 115 East Broad Street, is located at the *Caudell Quality Cleaners*, a Dry Cleaning Historical Boiler Inspection site (May 1978). These Dry Cleaners are not identified in the DSCA program or have notices of violations according to the DWM records. Thus, these facilities would not pose a hazard or conflict with the intended utilization of the Subject Property.

According to the NC DEQ DWM Records Search, there are no UST Active Facilities located on or adjoining the Subject Property. Additionally, the proposed project involves stormwater infrastructure improvements that is not using groundwater as a drinking water supply and future potential leaks from these UST Active Facilities are not a concern to the Subject Property for the proposed stormwater infrastructure improvements. According to the NC DEQ DWM Records Search, there are ten UST Incidents located within a one-mile radius of the Subject Property (NORTH) and nine UST Incidents located within a one-mile radius of the Subject Property (SOUTH). According to the NC DEQ DWM Records Search, there are five UST Incidents located within a 0.5-mile radius of the Subject Property (NORTH) and one UST Incident, *St. Pauls Well 2*, located within a 0.5-mile radius of the Subject Property (SOUTH). There is an 0.5-mile HUD standard requirement for a State and Tribal Leaking Storage Tank Lists search radius. The UST Incident #29422, *St. Pauls Well 2*, Clark Street (At Second St.), is the closest UST Incident and over 1,600 feet west from the Subject Property. According to the State Environmental Clearinghouse Comments, the “**UST Section, Fayetteville Regional Office**, does not have record of a petroleum release in the general area of the proposed project area, nor are there any records of registered USTs within this area. Note: Incident #29422, *St. Pauls Well 2*, was created for tracking purposes. Low levels of MTBE were detected and evaluated by a State Toxicologist. No definitive source could be determined. Town officials were notified of the MTBE detections in Well 2 which was to be monitored within the scope of their regulatory requirements with the Public Water Supply Section. This tracking incident was closed out on the UST Section RUST database on 6/21/2016. Lastly, there is one commercial / non-regulated, 10,000 gallon fuel oil UST registered at *Carolina Mills Plant #25*, 107 Clark Street, St. Pauls as well as at least one identified aboveground storage tank at this location with contents unknown. No petroleum releases have been reported at 107 Clark Street.” (See **Attachment 20** – State Environmental Clearinghouse Comments.) These facilities would not pose a hazard or conflict with the intended utilization of the Subject Property due to the closed status and nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply for *St. Pauls Well 2*, and the presence of a registered UST at a site, *Carolina Mills Plant #25*, not on or adjoining the Subject Property.

The next closest UST Incidents, *Walker's Convenience Store* and *Inman Plumbing*, are over 2,400 feet west of the Subject Property. According to the NC DEQ DWM Records, there is one Land Use Restriction and/or Notices site, *Walker's Convenience Store*, 315 South 5th Street, UST Incident #29449, located within 0.5-mile of the Subject Property. *Walker's Convenience Store*, UST Incident #29449, involved discovery of petroleum contamination during UST system removal and closure in August 1990. On September 25, 2015, NC DEQ acknowledged a No Further Action with Notice of Residual Petroleum for the site since the groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the Title 15A NCAC 2L .0202 (2L) standards. The groundwater within the area of contamination or where it is expected to migrate is deemed not suitable for use as a water supply. The *Walker's Convenience Store* location is the same as *Joey's Place, LLC*, 315 South 5th Street, which is a UST Active Facility with three USTs, a 6,027-gallon diesel, 6,027-gallon gasoline and 8,022-gallon gasoline UST and *Woods Quick Stop*, UST Incident #47601. On February 17, 2021, *Woods Quick Stop* two soil samples were collected with TPH-DRO detected in one sample but below regulatory action levels (RAL). No further assessment was required. This facility (*Walker's Convenience Store*, *Joey's Place, LLC* and *Woods Quick Stop*) would not pose a hazard or conflict with the intended utilization of the Subject Property because this low-risk site does not require further clean-up and the nature of the proposed project i.e., stormwater infrastructure improvements that do not require a drinking water supply. *Inman Plumbing*, 323 South 5th Street, UST Incident #29444, soil and groundwater

petroleum contamination was discovered August 15, 2006 during removal of gas and diesel USTs. Sidewalls of the UST basin were successfully over-excavated to BDL. On August 15, 2008, NC DWM UST section noted that the site is an intermediate risk with residential use that does not meet requirements for further assessment or corrective action. *Buies Oil*, 411 W. Broad St., received a NC DEHNR letter on October 13, 1993 stating no additional soil excavation and removal is required. These facilities (*Inman Plumbing* and *Buies Oil*) would not pose a hazard or conflict with the intended utilization of the Subject Property because the nature of the releases, the sites do not require further clean-up, and the proposed project does not require a drinking water supply.

Thus, these facilities and incidents in the NC DEQ records review are not considered a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

**Recommendations:** In the event that unexpected, contaminated materials or debris are encountered during construction, work in the area shall cease immediately, and the work area shall be secured. The appropriate NCDEQ 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, etc.), and, if removed, will be properly disposed of in the appropriate facility approved by the NC DEQ DWM Solid Waste Section. Notification of the proper regional office is requested if "orphan" USTs are discovered during any excavation operation (**Attachment 20**).

## **Summary of Findings**

**Summary:** Based on site visits and review of available environmental and historical records for the Subject Property and surrounding area, the site 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 I Environmental Site Assessment (ESA) or Phase II ESA is not warranted. NEPAAssist EPA Facilities Reports with 1-mile and 0.5-mile Buffers, NC DEQ DWM Site Locator Reports with 1-mile, 0.5-mile and 3,000-foot Buffers, Facility Reports, Site Inspection Documentation, and Historic Aerials are provided in **Attachment 7**. NC State Environmental Clearinghouse (SCH) comments are in **Attachment 20**.

## **Data Sources:**

NCORR has reviewed the following sources to make the above determinations: NEPAAssist, Hazardous Waste (RCRAInfo), Air Pollution (ICIS-AIR), Water Dischargers National Pollutant Discharge Elimination System (NPDES) permit program, EPA's Permit Compliance System (PCS) and Integrated Compliance Information System (ICIS) databases, EPA's Toxic Release Inventory Database (TRI), Superfund Enterprise Management System (SEMS) and National Priorities List (NPL), Brownfields Assessment, Cleanup and Redevelopment Exchange System (ACRES), and the EPA Toxic Substances Control Act (TSCA).

NCORR reviewed the NC DEQ Division of Waste Management (DWM) Site Locator Tool to assess whether the Subject Property is registered as a State Superfund site. The NC DWM Database includes records of sites that are part of the Land Clearing and Inert Debris (LICD) Notifications, Permitted Solid Waste Landfills, Other Permitted Solid Waste Facilities, Yard Waste Notification (YWN) Facilities, Coal Ash Structural Fills (Closed), Permitted Solid Waste Septage Facilities (SLAS or SDTF), Hazardous Waste Sites, Brownfields Program Sites, Federal Remediation Branch, Pre-Regulatory Landfill Sites, Inactive Hazardous Sites, Dry Cleaning Compliance, Dry Cleaning Remediation Program, Dry Cleaning Historical Boiler Inspections, Dry Cleaning City Directories, UST Incidents, Non-UST Incidents, UST Active



Facilities, Petroleum Contaminated Soil Remediation Permits, and Land Use Restriction and/or Notices. NCORR requested and, if available, reviewed NC DWM records, retained by the UST Section Regional Office through the NC State Environmental Clearinghouse, to determine if the Subject Property has an underground storage tank (UST) (besides a residential fuel tank) or any other storage tank.

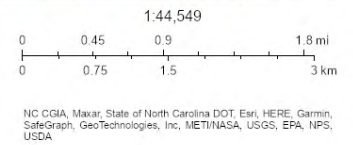
# NEPAssist Report

## St. Pauls Northern Project



July 8, 2023

- Brownfields (ACRES)
- Water Dischargers (NPDES)
- Air Pollution (ICIS-AIR)
- Air Pollution (ICIS-AIR)
- Toxic Releases (TRI)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



Input Coordinates: 34.803264,-78.968167,34.803256,-78.967953,34.801952,-78.968167,34.801934,-78.967781,34.800128,-78.967760,34.800128,-78.968114,34.799300,-78.968135,34.799318,-78.968146,34.799318,-78.968157,34.799300,-78.968167

Length of digitized line	0.33 mi
Within 1 mile of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
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?	yes
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?	yes
Within 1 mile of a Superfund site?	no
Within 1 mile of a Toxic Release Inventory (TRI) site?	yes
Within 1 mile of a water discharger (NPDES)?	yes

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?	yes
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?	yes
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: 7/8/2023 12:03:56 PM



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Powered by Esri (<http://www.esri.com/>)**Report question: Within 1 of a Brownfields site? yes**

Modify question by entering a new buffer distance and unit for the selected study area:

miles

**Name**☐ MCMILLAN SHULER OIL (ST. PAULS,NC) (<https://ofmpub.epa.gov/apex/cimc/f?>

p=CIMC:31:::Y,31,0:P31\_ID:109104)

**REGISTRY\_ID:** 110070247792**LATITUDE:** 34.80194**LONGITUDE:** -78.97156**PGM\_SYS\_ACRNM:** ACRES**PGM\_SYS\_ID:** 109104**LOCATION\_ADDRESS:** MILL STREET**CITY\_NAME:** ST. PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384**FIPS\_CODE:** 37155**HUC\_CODE:****Distance**

0.19 mile

**Report question: *Within 1 of a Toxic releases site? yes***

Modify question by entering a new buffer distance and unit for the selected study area:

  **Name**☐ MANNING CORP (SAINT PAULS,NC) (<https://enviro.epa.gov/facts/tri/ef-facilities/#!/Facility/28384THMNN8WEST>)**Distance**

0.20 mile

**REGISTRY\_ID:** 110002099773**LATITUDE:** 34.805628**LONGITUDE:** -78.970104**PGM\_SYS\_ACRNM:** TRIS**PGM\_SYS\_ID:** 28384THMNN8WEST**LOCATION\_ADDRESS:** 8 W BLUE ST**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384**FIPS\_CODE:** 37155**HUC\_CODE:**



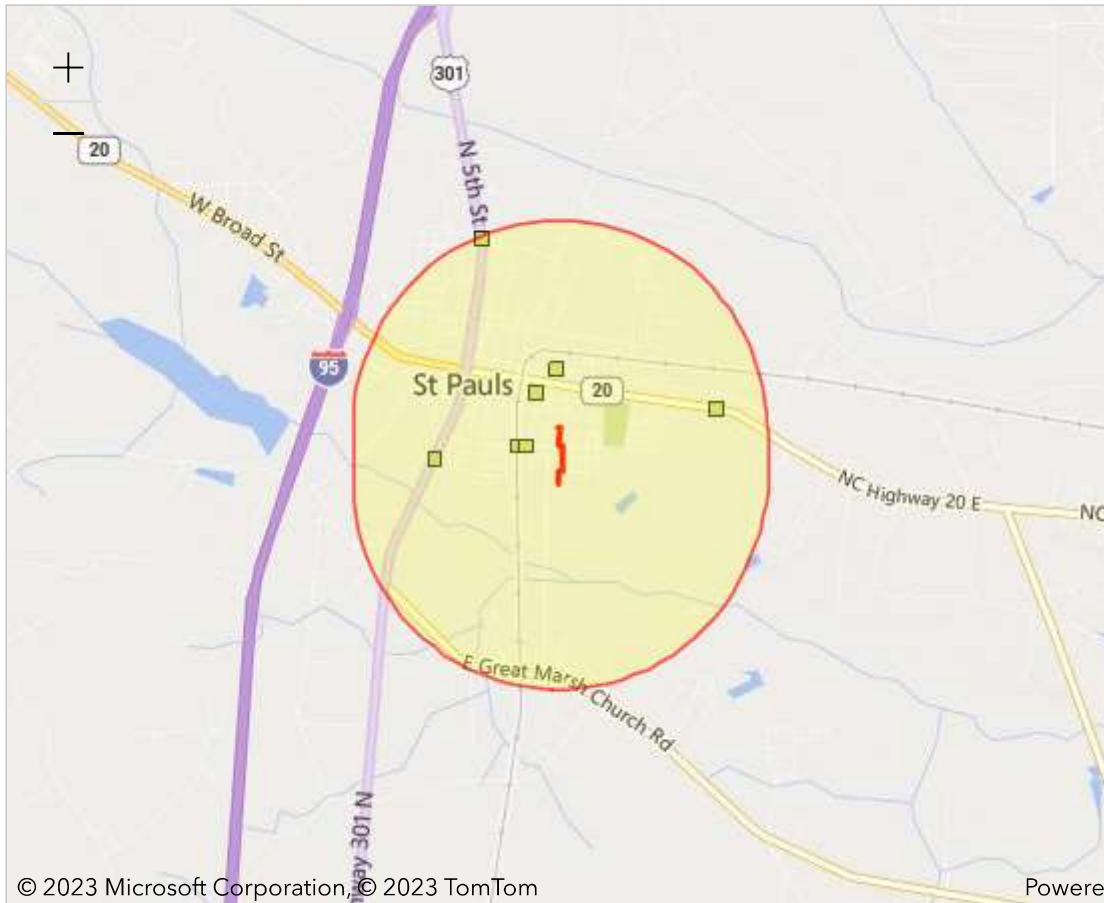
Powered by Esri (<http://www.esri.com/>)**Report question: Within 1 of a Water dischargers site? yes**

Modify question by entering a new buffer distance and unit for the selected study area:

Name	Distance
<input type="checkbox"/> ST. PAULS WWTP (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=1&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NC0020095">https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=1&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NC0020095</a> ) <b>REGISTRY_ID:</b> 110006711022 <b>LATITUDE:</b> 34.798293 <b>LONGITUDE:</b> -78.969142 <b>PGM_SYS_ACRNM:</b> NPDES <b>PGM_SYS_ID:</b> NC0020095 <b>LOCATION_ADDRESS:</b> 601 S ELIZABETH ST <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> NC155 <b>HUC_CODE:</b>	0.09 mile
<input type="checkbox"/> TOWN OF ST PAULS (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=18&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NCL020095">https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=18&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NCL020095</a> ) <b>REGISTRY_ID:</b> 110006711022 <b>LATITUDE:</b> 34.798293 <b>LONGITUDE:</b> -78.969142 <b>PGM_SYS_ACRNM:</b> NPDES <b>PGM_SYS_ID:</b> NCL020095 <b>LOCATION_ADDRESS:</b> PO BOX 364 <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384-0364 <b>FIPS_CODE:</b> NC155 <b>HUC_CODE:</b>	0.09 mile





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Powered by Esri (<http://www.esri.com/>)**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:

  **Name**☐ CAROLINA MILLS INC PLANT #25 (SAINT PAULS,NC) ([https://enviro.epa.gov/envirofacts/rcrainfo/facility?](https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981856073)

handlerId=NCD981856073)

**REGISTRY\_ID:** 110004025411**LATITUDE:** 34.801934**LONGITUDE:** -78.971656**PGM\_SYS\_ACRNM:** RCRAINFO**PGM\_SYS\_ID:** NCD981856073**LOCATION\_ADDRESS:** 107 W CLARK ST**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384-0217**FIPS\_CODE:** 37155**HUC\_CODE:****Distance**

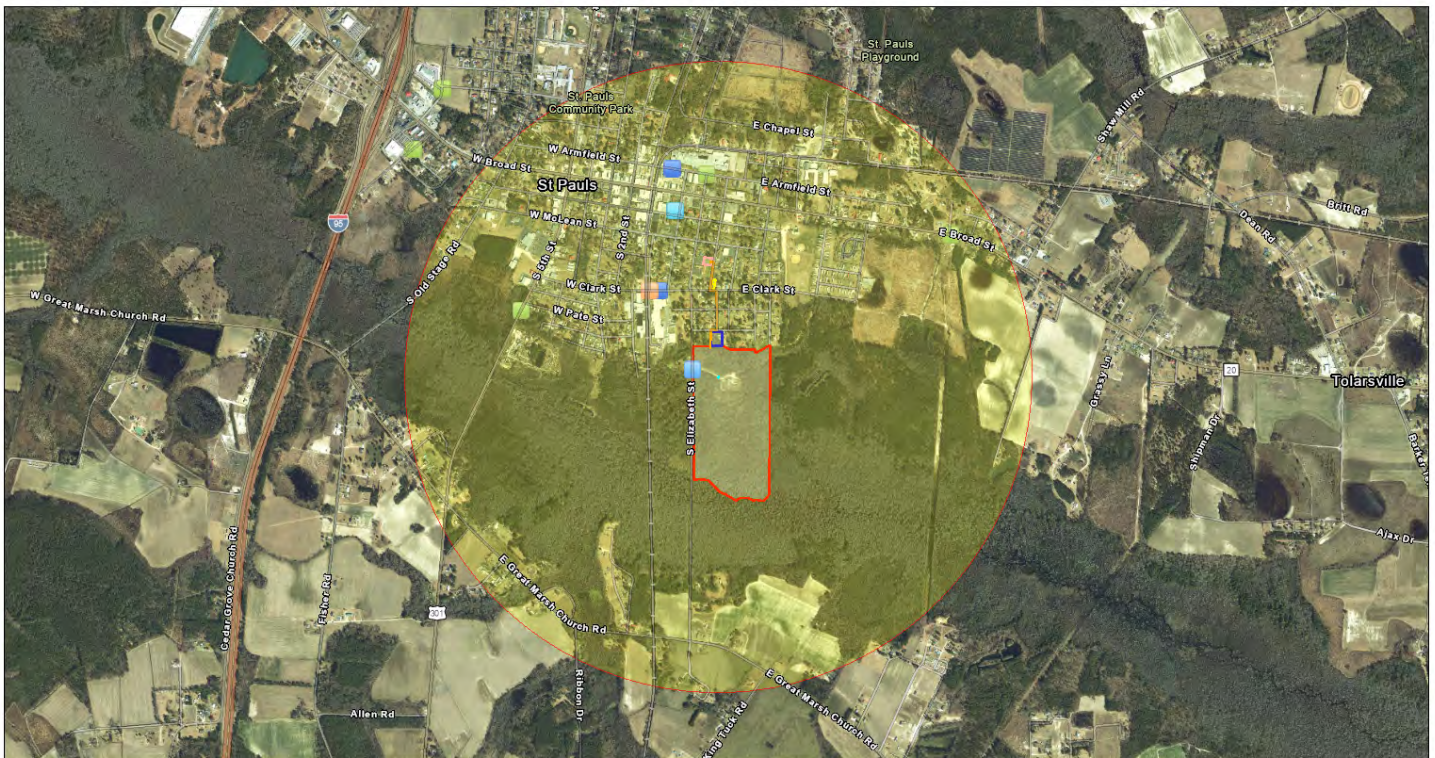
0.20 mile

Name	Distance
<input type="checkbox"/> MINE SAFETY APPLIANCES CO (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCR000145888">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> handlerId=NCR000145888) <b>REGISTRY_ID:</b> 110037425952 <b>LATITUDE:</b> 34.80194 <b>LONGITUDE:</b> -78.971013 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCR000145888 <b>LOCATION_ADDRESS:</b> 106 E CLARK ST <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.16 mile
<input type="checkbox"/> CAROLINA MILLS INC PLANT #26 (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD986182335">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> handlerId=NCD986182335) <b>REGISTRY_ID:</b> 110004041536 <b>LATITUDE:</b> 34.80732 <b>LONGITUDE:</b> -78.96835 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCD986182335 <b>LOCATION_ADDRESS:</b> 201 E ARMFIELD ST <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384-0157 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.28 mile
<input type="checkbox"/> HUGHES AUTOMOTIVE (ST PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000933">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> handlerId=NCS000000933) <b>REGISTRY_ID:</b> 110035434303 <b>LATITUDE:</b> 34.80452 <b>LONGITUDE:</b> -78.95463 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCS000000933 <b>LOCATION_ADDRESS:</b> 926 E. BROAD ST <b>CITY_NAME:</b> ST PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.76 mile
<input type="checkbox"/> ST PAULS COMPLAINT (ST PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000001292">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> handlerId=NCS000001292) <b>REGISTRY_ID:</b> 110038886756 <b>LATITUDE:</b> 34.816489 <b>LONGITUDE:</b> -78.974732 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCS000001292 <b>LOCATION_ADDRESS:</b> 803 5TH ST <b>CITY_NAME:</b> ST PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.99 mile

Name	Distance
<input type="checkbox"/> THE MANNING CORP (ST. PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981865645">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981865645">handlerId=NCD981865645</a> ) <b>REGISTRY_ID:</b> 110002099773 <b>LATITUDE:</b> 34.805628 <b>LONGITUDE:</b> -78.970104 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCD981865645 <b>LOCATION_ADDRESS:</b> 8 WEST BLUE ST <b>CITY_NAME:</b> ST. PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.20 mile
<input type="checkbox"/> FIELDS GARAGE & TOWING (ST PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000907">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000907">handlerId=NCS000000907</a> ) <b>REGISTRY_ID:</b> 110035433251 <b>LATITUDE:</b> 34.801024 <b>LONGITUDE:</b> -78.978776 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCS000000907 <b>LOCATION_ADDRESS:</b> 639 S. FIFTH ST. <b>CITY_NAME:</b> ST PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.61 mile

# NEPAssist Report

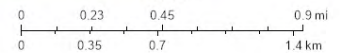
## St. Pauls' Southern Project



July 8, 2023

- Brownfields (ACRES)
- Toxic Releases (TRI)
- Water Dischargers (NPDES)
- Air Pollution (ICIS-AIR)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP

1:22,274



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: 34.798014,-78.967642,34.797890,-78.967728	
Length of digitized line	0.01 mi
Within 1 mile of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
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?	yes
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?	yes
Within 1 mile of a Superfund site?	no
Within 1 mile of a Toxic Release Inventory (TRI) site?	yes
Within 1 mile of a water discharger (NPDES)?	yes
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?	yes
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?	yes
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: 7/8/2023 11:45:18 AM





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Powered by Esri (<http://www.esri.com/>)**Report question: Within 1 of a Brownfields site? yes**

Modify question by entering a new buffer distance and unit for the selected study area:

  **Name**☐ MCMILLAN SHULER OIL (ST. PAULS,NC) (<https://ofmpub.epa.gov/apex/cimc/f?>

p=CIMC:31:::Y,31,0:P31\_ID:109104)

**REGISTRY\_ID:** 110070247792**LATITUDE:** 34.80194**LONGITUDE:** -78.97156**PGM\_SYS\_ACRNM:** ACRES**PGM\_SYS\_ID:** 109104**LOCATION\_ADDRESS:** MILL STREET**CITY\_NAME:** ST. PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384**FIPS\_CODE:** 37155**HUC\_CODE:****Distance**

0.35 mile



# Brownfields Assessment Grant Profile

Robeson County

Grant ID: 69599116.

Cooperative Agreement #: BF96490907

More Details on Grant Awarded

[Brownfields Grant Fact Sheet](#)

This profile provides a summary of basic grant information and the accomplishments reported to the US EPA by a [Brownfields](#)



*Human Exposure Under Control* Abandoned, idled, or under used industrial and commercial facilities/sites where expansion or redevelopment is complicated by real or perceived environmental contamination. They can be in urban, suburban, or rural areas. EPA's Brownfields initiative helps communities mitigate potential health risks and restore the economic viability of such areas or properties. grant recipient.

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On this page:

- [Profile Information](#)
- [Cooperative Agreement Contact](#)
- [Properties Addressed By This Cooperative Agreement](#)
- [Assessment Activities](#)
- [Cleanup Activities](#)
- [Institutional & Engineering Controls](#)
- [Redevelopment and Other Leveraged Accomplishments](#)

## Profile Information

Recipient Name	<b>Robeson County</b>
Cooperative Agreement #	<b>BF96490907</b>
State	<b>NC</b>
Cooperative Agreement Type	<b>Assessment</b>
Announcement Year	<b>FY07</b>
Award Date	<b>09/11/2007</b>
Initial Project Period	<b>10/01/2007 to 09/30/2010</b>
Current POP End Date	
Status	<b>Closed</b>
Funding Source	<b>Regionally Funded</b>
Total Funded	<b>\$400,000.00</b>
Funding Type	<b>Hazardous</b>

## Cooperative Agreement Contact

Primary Contact Name	<b>Brian Gross</b>
Primary Contact Email	<b>Gross.Brian@epa.gov</b>
Primary Contact Phone	<b>(404) 562-8604</b>

## Properties Addressed By This Cooperative Agreement

Q v		Go
-----	--	----

Property Name	Address	Property Page Link

5Gs Plant	1354 Recreation Road Maxton, NC 28364	<a href="#">Open</a>
Former BB&T Building	500 Chestnut Street Lumberton, NC 28358	<a href="#">Open</a>
Jackson Joanna	2626 Meadow Street Lumberton, NC 28358	<a href="#">Open</a>
McMillan Shuler Oil	Mill Street St. Pauls, NC 28384	<a href="#">Open</a>
Old Gulf Oil Site	Beal Street Lumberton, NC 28358	<a href="#">Open</a>
Old Milliken Plant	218 Graham Street Red Springs, NC 28377	<a href="#">Open</a>
Old Robeson County Jail	190 West 6th Street Lumberton, NC 28358	<a href="#">Open</a>
Old World Line Chevrolet	218 North Main Street Red Springs, NC 28377	<a href="#">Open</a>
People's Gas & Oil Site	North Main Street Red Springs, NC 28377	<a href="#">Open</a>
Rimpton Investments	124 Hornets Road Lumberton, NC 28358	<a href="#">Open</a>
Swiss Piedmont Plant	Walnut Street Fairmont, NC 28340	<a href="#">Open</a>
Wanda Willoughby Property	4840 Old Whiteville Road Lumberton, NC 28358	<a href="#">Open</a>
ount Paper Plant	953 Alma Road Maxton, NC 28364	<a href="#">Open</a>

## Assessment Activities



Property Name	EPA Funding	Completion Date	Activity	Leveraged Funding
5Gs Plant	\$5,000.00	12/20/2009	Phase I Environmental Assessment	\$0.00
Former BB&T Building	\$5,000.00	06/05/2009	Phase I Environmental Assessment	\$0.00
Jackson Joanna	\$5,000.00	09/30/2010	Phase I Environmental Assessment	\$0.00
McMillan Shuler Oil	\$5,000.00	03/18/2009	Phase I Environmental Assessment	\$0.00
Old Gulf Oil Site	\$7,000.00	04/15/2010	Phase I Environmental Assessment	\$0.00
Old Milliken Plant	\$5,000.00	10/01/2009	Phase I Environmental Assessment	\$0.00
Old Robeson County Jail	\$5,000.00	01/15/2010	Phase I Environmental Assessment	\$0.00
Old World Line Chevrolet	\$6,000.00	08/11/2010	Phase I Environmental Assessment	\$0.00
People's Gas & Oil Site	\$6,500.00	09/30/2010	Phase I Environmental Assessment	\$0.00
Rimpton Investments	\$7,500.00	09/30/2010	Phase I Environmental Assessment	\$0.00
Swiss Piedmont Plant	\$7,000.00	03/30/2010	Phase I Environmental Assessment	\$0.00
Wanda Willoughby Property	\$4,500.00	09/30/2010	Phase I Environmental Assessment	\$0.00
ount Paper Plant	\$8,000.00	04/14/2010	Phase I Environmental Assessment	\$0.00

**EPA Assessment Funding:** \$76,500.00

**Leveraged Funding:** \$0.00

**Total Funding:** \$76,500.00

NOTE: Funding marked for deletion not included in totals

## Cleanup Activities

There are no Cleanup Activities for this Cooperative Agreement.

**Cleanup Jobs Leveraged:**  
**Costshare Funding:**  
**Leveraged Funding:**  
**Total Funding:** \$0.00  
 NOTE: Funding marked for deletion not included in totals

## Institutional & Engineering Controls

Property Name	Are ICs Required?	IC In Place	Are ECs Required?	EC In Place
5Gs Plant	No	No	No	No
Former BB&T Building		No		No
Jackson Joanna	Yes	Yes	No	No
McMillan Shuler Oil		No		No
Old Gulf Oil Site		No		No
Old Milliken Plant		No		No
Old Robeson County Jail		No		No
Old World Line Chevrolet		No		No
People's Gas & Oil Site				
Rimpton Investments		No		No
Swiss Piedmont Plant		No		No
Wanda Willoughby Property		No		No
ount Paper Plant		No		

## Redevelopment and Other Leveraged Accomplishments

Property Name	Start Date	Completion Date	Leveraged Funding	Acres Of Greenspace Created	Redevelopment Jobs Leveraged
5Gs Plant	12/20/2009		\$0.00		100
Former BB&T Building			\$0.00		
McMillan Shuler Oil			\$0.00		
Old Milliken Plant			\$0.00		
Old Robeson County Jail			\$0.00		

**Redevelopment Jobs Leveraged:** 100  
**Leveraged Funding:**  
 NOTE: Funding marked for deletion not included in totals

**Date Last updated:** Data on this page was last refreshed on  
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# Property Details for McMillan Shuler Oil

## On this page:

- [Profile Information](#)
- [Property Location](#)
- [Property Progress](#)
- [CAs Associated with this Property](#)
- [Assessment Activities at this Property](#)
- [Contaminants and Media](#)
- [Cleanup Activities](#)
- [Institutional & Engineering Controls](#)
- [Redevelopment and Other Leveraged Accomplishments](#)
- [Additional Property Attributes](#)

[Legal Notices](#)

## Profile Information

Property Alias	
Property Owner	<b>Private</b>
ACRES Property ID	<b>109104</b>
Property Address	<b>Mill Street St. Pauls, NC 28384</b>
Size	<b>.08</b>
Parcel Numbers	<b>381403001</b>
Latitude/Longitude	<b>34.803525 / -78.9715269</b>
Congressional District	<b>9</b>
Property Contact	<b>Champagne, David</b> <b>Champagne.David@epa.gov</b> <b>404-562-9028</b>



## Property Location



## Property Progress

Assessment	✕
Clean Up	✕
Institutional Controls in Place	✕
Engineering Controls in Place	✕
Ready for Anticipated Use	✕
Redevelopment Underway	✕

## CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
Robeson County	BF96490907	NC	<a href="#">Assessment</a>	2007

## Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
<a href="#">Phase I Environmental Assessment</a>	\$5,000.00	12/04/2008	03/18/2009	Robeson County	Y	FY18

Is Cleanup Necessary? **Unknown**  
EPA Assessment Funding: **\$5,000.00**  
Leveraged Funding:  
Total Funding: **\$5,000.00**

## Contaminants and Media

Contaminant Found

Remediating Action for Contaminants

Media Affected

Remediating Action for Media

**Unknown**

**NOT Cleaned up**

## Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:

Cleanup/Treatment Categories:

Addl Cleanup/Treatment info:

Address of Data Source:

## Institutional and Engineering Controls

Indicate whether Institutional Controls are required

Categories of Controls

Additional Institutional Controls Information

Address of Data Source (URL if available)

Are Institutional Controls in Place **No**

Date Institutional Controls were put in place

Indicate whether Engineering Controls are required

Categories of Controls

Additional Engineering controls information

Address of Data Source (URL if available)

Indicate whether Engineering Controls are in place **No**

Date Engineering Controls were put in place

## Redevelopment and Other Leveraged Accomplishments

Start Date	Leveraged Funding	CA	Completion Date
		Robeson County	

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

## Additional Property Attributes

Property Highlights

**Former Use:** Property exists as a vacant refueling station for the nearby and adjacent railroad. The property has four above ground storage tanks, a small multi-level platform with two fuelling booms, and two small buildings. The 1928 Sanborn Fire Insurance map indicates this property has previously been the railroad right-of-way.

Predominant Past Usage

**Commercial (.08)**

What types of funding are being used on this property?

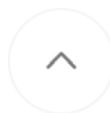
**Petroleum**

State and Tribal Program Information

Date No Further Action Letter Received

Date Letter/Signed Report Received from a Qualified Professional

Other Cleanup Documentation



**Report question: *Within 1 of a Toxic releases site? yes***

Modify question by entering a new buffer distance and unit for the selected study area:

miles **Name**☐ MANNING CORP (SAINT PAULS,NC) (<https://enviro.epa.gov/facts/tri/ef-facilities/#!/Facility/28384THMNN8WEST>)**Distance**

0.54 mile

**REGISTRY\_ID:** 110002099773**LATITUDE:** 34.805628**LONGITUDE:** -78.970104**PGM\_SYS\_ACRNM:** TRIS**PGM\_SYS\_ID:** 28384THMNN8WEST**LOCATION\_ADDRESS:** 8 W BLUE ST**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384**FIPS\_CODE:** 37155**HUC\_CODE:**



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TRI Facility Report: MANNING CORP (28384THMNN8WEST)

Facility Information

FACILITY INFORMATION   CHEMICALS   POLLUTION PREVENTION (P2)   WASTE MANAGEMENT   RELEASES   WATER RELEASES   TRANSFERS   CLASSIC VIEW			
Facility Name	MANNING CORP	TRI ID	28384THMNN8WEST
Address	8 W BLUE ST SAINT PAULS, NC, 28384	FRS ID	110002099773
Mailing Name	MANNING CORP	DUNS Number	061091278
Mailing Address	POBOX 6300 INVALID, NC, 28374	Parent Company	
County	ROBESON	Public Contact	EDWARD N MANNING JR
EPA Region	4	Phone	(919) 295-1970
Latitude	34.805628	Tribe	NA
Longitude	-78.970104	BIA Tribal Code	NA
NAIC(S)	313210 Broadwoven Fabric Mills	Industry Sector	313 Textiles
Last Form	1991		

\*You can navigate within the map with your mouse.

Other Regulatory Data

No data to display

Compliance Information

Compliance data below provided by ECHO.



Go to ECHO for More Enforcement and Compliance Data

Timestamp

Query was executed on APR-9-2022



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Follow.



LAST UPDATED ON MARCH 21, 2022





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Powered by Esri (<http://www.esri.com/>)**Report question: Within 1 of a Water dischargers site? yes**

Modify question by entering a new buffer distance and unit for the selected study area:

  **Name**☐ ST. PAULS WWTP (SAINT PAULS,NC) ([https://enviro.epa.gov/enviro/ICIS\\_DETAIL\\_REPORTS\\_NPDESID.icis\\_tst?](https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=1&npvalue=13&npvalue=14&npvalue=3&npvalue=4&npvalue=5&npvalue=6&rvalue=13&npvalue=2&npvalue=7&npvalue=8&npvalue=11&npvalue=12&npdesid=NC0020095)**Distance**

0.09 mile

npvalue=1&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NC0020095)

**REGISTRY\_ID:** 110006711022**LATITUDE:** 34.798293**LONGITUDE:** -78.969142**PGM\_SYS\_ACRNM:** NPDES**PGM\_SYS\_ID:** NC0020095**LOCATION\_ADDRESS:** 601 S ELIZABETH ST**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384**FIPS\_CODE:** NC155**HUC\_CODE:**☐ TOWN OF ST PAULS (SAINT PAULS,NC) ([https://enviro.epa.gov/enviro/ICIS\\_DETAIL\\_REPORTS\\_NPDESID.icis\\_tst?](https://enviro.epa.gov/enviro/ICIS_DETAIL_REPORTS_NPDESID.icis_tst?npvalue=18&npvalue=13&npvalue=14&npvalue=3&npvalue=4&npvalue=5&npvalue=6&rvalue=13&npvalue=2&npvalue=7&npvalue=8&npvalue=11&npvalue=12&npdesid=NCL020095)

0.09 mile

npvalue=18&amp;npvalue=13&amp;npvalue=14&amp;npvalue=3&amp;npvalue=4&amp;npvalue=5&amp;npvalue=6&amp;rvalue=13&amp;npvalue=2&amp;npvalue=7&amp;npvalue=8&amp;npvalue=11&amp;npvalue=12&amp;npdesid=NCL020095)

**REGISTRY\_ID:** 110006711022**LATITUDE:** 34.798293**LONGITUDE:** -78.969142**PGM\_SYS\_ACRNM:** NPDES**PGM\_SYS\_ID:** NCL020095**LOCATION\_ADDRESS:** PO BOX 364**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384-0364**FIPS\_CODE:** NC155**HUC\_CODE:**



Detailed Facility Report

Facility Summary

ST. PAULS WWTP  
601 SOUTH ELIZABETH STREET, SAINT PAULS, NC 28384

Facility Registry System ID: 110006711022  
EPA Region: 04  
Latitude: 34.789293  
Longitude: -78.969142  
Locational Data Source: FRS  
Industries: --  
Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	06/23/2020
Compliance Status	Significant Category 1 Noncompliance
Qtrs in Noncompliance (of 12)	12
Qtrs with Significant Violation	8
Informal Enforcement Actions (5 years)	12
Formal Enforcement Actions (5 years)	25
Penalties from Formal Enforcement Actions (5 years)	\$25,522
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information  
Clean Water Act (CWA): Minor, Permit Effective (NC020095), Minor, Permit Effective (NCL020095)  
Resource Conservation and Recovery Act (RCRA): No Information  
Safe Drinking Water Act (SDWA): No Information  
[Go to Enforcement & Compliance Details](#)  
[Additional Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information  
Greenhouse Gas Emissions (eGGR): 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	Area	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110006711022					N	34.789293	-78.969142
ICIS-NPDES	CWA	NCL020095	Minor: NPDES Individual Permit	Effective	POTW	07/31/2024	N	34.791667	-78.969687
ICIS-NPDES	CWA	NCL020095	Minor: Associated Permit Record	Effective	Residual	12/31/2025	N	34.789293	-78.969142

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110006711022	ST. PAULS WWTP	601 SOUTH ELIZABETH STREET, SAINT PAULS, NC 28384	Robeson County
ICIS-NPDES	CWA	NCL020095	ST. PAULS WWTP	601 S. ELIZABETH ST. SAINT PAULS, NC 28384	Robeson County
ICIS-NPDES	CWA	NCL020095	TOWN OF ST. PAULS	PO BOX 384, SAINT PAULS, NC 28384-0384	Robeson County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	NCL020095	4022	Sewerage Systems
NPDES	NCL020095	4022	Sewerage Systems

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
			No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guidelines (in CDR Part)	Effluent Guidelines Description
NCL020095	401	General provisions

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
			No data records returned

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	NCL020095	ICIS-NPDES	Inspection/Evaluation	CWA	Base Program - Evaluation	06/23/2020	

Entries in *italics* are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current <i>SDA</i> Compliance Noncompliance (EPA/SDA/Source/Status)	Current as of	Qtrs with <i>SDA</i> Compliance (of 12)	Data Last Retrieved
CWA	NCL020095	No	12/31/2021	12	04/01/2022
CWA	NCL020095	No	12/31/2021	0	04/01/2022

Three-Year Compliance History by Quarter

Program/Permit/Violation Type		Quarterly Noncompliance Report History												
CWA (Source ID: NCL020095)		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13*
Facility-Level Statute		01/01-03/31/19	04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	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	01/01-04/01/22
Quarterly Noncompliance Report History		Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified	Violations Identified
Pollutant		Effluent - Monthly Average Limit	Reproducible Noncompliance	Reproducible Noncompliance	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit	Reproducible Noncompliance	Reproducible Noncompliance	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit	Effluent - Monthly Average Limit
Disch Point		001 - M	Effluent Gross	Minor										
Max Lac		30%	1%			4%	17%			102%				
Frng														
* CWA	Flow in combined sewer treatment plant	001 - M	Effluent Gross	Minor										
* CWA	Manure (and its liq)	001 - M	Effluent Gross	Minor	338%	244%	75%	16%	20%	147%	127%	177%	81%	391%
* CWA	Manure (and its liq)	001 - M	Effluent Gross	Minor	338%	244%	73%	16%	23%	147%	127%	177%	81%	391%
* CWA	Manure (and its liq)	001 - M	Effluent Gross	Minor	338%	244%	73%	16%	23%	147%	127%	177%	81%	391%
Rate or Mass Discharge Monitoring Report (RMD) Measurements														
CWA (Source ID: NCL020095)		01/01-03/31/19	04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	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	01/01-04/01/22
Facility-Level Statute		No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	No Violations Identified	Unassessed
Quarterly Noncompliance Report History														

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlement/Action	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/13/2022	1	01/13/2022	\$0	\$2,128	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	12/09/2021	1	12/09/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	10/22/2021	1	10/22/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	09/23/2021	1	09/23/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$2,316	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$1,691	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	06/16/2021	1	06/16/2021	\$0	\$1,378	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/28/2021	1	04/28/2021	\$0	\$1,090	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/01/2021	1	04/01/2021	\$0	\$0	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	03/11/2021	1	03/11/2021	\$0	\$1,128	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/08/2021	1	01/08/2021	\$0	\$1,128	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/13/2022	1	01/13/2022	\$0	\$2,128	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	12/09/2021	1	12/09/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	10/22/2021	1	10/22/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	09/23/2021	1	09/23/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$2,316	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$1,691	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	06/16/2021	1	06/16/2021	\$0	\$1,378	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/28/2021	1	04/28/2021	\$0	\$1,090	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/01/2021	1	04/01/2021	\$0	\$0	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	03/11/2021	1	03/11/2021	\$0	\$1,128	--	\$0	\$0
CWA	ICIS-NPDES	NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/08/2021	1	01/08/2021	\$0	\$1,128	--	\$0	\$0

Entries in *italics* are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlement/Action	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/13/2022	1	01/13/2022	\$0	\$2,128	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	12/09/2021	1	12/09/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	10/22/2021	1	10/22/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	09/23/2021	1	09/23/2021	\$0	\$1,628	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$2,316	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	08/19/2021	1	08/19/2021	\$0	\$1,691	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	06/16/2021	1	06/16/2021	\$0	\$1,378	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/28/2021	1	04/28/2021	\$0	\$1,090	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	04/01/2021	1	04/01/2021	\$0	\$0	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	03/11/2021	1	03/11/2021	\$0	\$1,128	--	\$0	\$0
CWA	ICIS-NPDES	OTHER	NPDES/NCL020095	Administrative - Formal	NC-13-2021-0121	State	Town of St. Pauls	01/08/2021	1	01/08/2021	\$0	\$1,128	--	\$0	\$0

### Environmental Conditions

### Watersheds

**Assessed Waters From Latest State Submission (ATTAINS)**

### Air Quality Nonattainment Areas

No data records returned

## Pollutants

**Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site**

No data records returned

**Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year**

No data records returned

## Community

## EJSCREEN EJ Indexes

Exposes environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that 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](#).

Number of EJ Indexes Above 80th Percentile	5
--	---

[View EJSOREN Report](#)

### 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 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility 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 [DPR Data Dictionary](#).

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	23.1% (1%)
Means 17 years and younger	58.1 (20%)
Adults 18 years and older	1,605 (74%)
Seniors 65 years and older	318 (14%)

Race Breakdown (U.S. Census) - Persons (%)	
White	1,118 (49%)
African American	239 (27%)
Hispanic/Latino	589 (28%)
Asian/Pacific Islander	11 (0%)
American Indian	144 (6%)
Other/Multiracial	476 (21%)

Education Level (Persons 25 & older) (U.S. Census) - Persons (%)	
Less than 9th Grade	136 (15.06%)
High School 12th Grade	120 (13.28%)
High School Diploma	409 (47.82%)
Some College/Year	193 (21.37%)
College Graduate/Postgraduate or More	26 (2.87%)

Related Topics: [Envirofacts](#) <->

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ICIS Detailed Reports



This page was created on APR-09-2022  
Results are based on data extracted on APR-02-2022

**Note:** You are viewing results from the modernized data system, Integrated Compliance Information System (ICIS). The state reporting this data to EPA previously reported the data to a historic data system, Permit Compliance System (PCS). Use the following button to view the historic data from PCS.     **Run a PCS Search**

Facility

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
STREET 1	PO BOX 364	SIC CODE	
CITY	Saint Pauls	MAJOR / MINOR	
COUNTY NAME	Robeson	TYPE OF OWNERSHIP	
STATE	NC	ACTIVITY STATUS	Effective
ZIP CODE	28384-0364	INACTIVE DATE	
REGION	Region 4	TYPE OF PERMIT ISSUED	Associated Permit Record
LATITUDE	34.798293	ORIGINAL PERMIT ISSUE DATE	01-JAN-2016
LONGITUDE	-78.969142	PERMIT ISSUED DATE	01-JAN-2021
LAT/LON CODE OF ACCURACY	20	PERMIT EXPIRED DATE	31-DEC-2025
LAT/LON METHOD			
LAT/LON SCALE		USGS HYDRO BASIN CODE	
LAT/LON DATUM		FLOW	
RECEIVING WATERS		FEDERAL GRANT IND	
PRETREATMENT CODE		SLUDGE CLASS PAC IND	NON-POTW
MAILING NAME	Town of St Pauls	SLUDGE RELATED PERMIT NUM	
MAILING STREET (1)	PO Box 364	ANNUAL DRY SLUDGE PROD	
MAILING STREET (2)			
MAILING CITY	Saint Pauls		
MAILING STATE	North Carolina		
MAILING ZIP CODE	28384-0364		
COGNIZANT OFFICIAL		COGNIZANT OFFICIAL TEL	

Activity

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
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ACTIVITY NAME	ACTIVITY TYPE DESCRIPTION	ACTIVITY STATUS DESCRIPTION	ACTIVITY STATUS DATE	ACTUAL BEGIN DATE	ACTUAL END DATE
	Permit	Active	07-JUN-2021		
	Permit	Active	07-JUN-2021		
	Permit	Active	21-DEC-2016		
	Permit	Active	21-DEC-2016		

Contacts

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
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No Contacts Found.

Permit Tracking

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
PERMIT ISSUED BY		ORIGINAL DATE OF ISSUE	01-JAN-2016
PERMIT ISSUED DATE	01-JAN-2021	PERMIT EXPIRED DATE	31-DEC-2025
EFFECTIVE DATE	01-JAN-2021	RETIREMENT DATE	

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
PERMIT ISSUED BY		ORIGINAL DATE OF ISSUE	01-JAN-2016
PERMIT ISSUED DATE	01-JAN-2016	PERMIT EXPIRED DATE	31-DEC-2020
EFFECTIVE DATE	01-JAN-2016	RETIREMENT DATE	31-DEC-2020

Permit Tracking Events:

EVENT DESCRIPTION	EVENT DATE
Permit Expiration	31-DEC-2025
Permit Issued	01-JAN-2021
Permit Effective	01-JAN-2021
Permit Reissued	01-JAN-2021
Permit Expiration	31-DEC-2020

Permit Retired	31-DEC-2020
Permit Effective	01-JAN-2016
Permit Issued	01-JAN-2016

Inspections

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
-------------------	------------------	-------	-----------

No Inspections Found.

Outfalls/Pipe Schedules

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
OUTFALL TYPE		PIPE NUMBER	
ACTIVITY STATUS		REPORT DESIGNATOR	
LATITUDE		LONGITUDE	
LAT/LON ACCURACY		LAT/LON METHOD	
LAT/LON SCALE		LAT/LON DATUM	
INACTIVE DATE		USGS HYDRO BASIN CODE	
INIT DMR DUE DATE		SUBMISSION UNITS	
PIPE DESCRIPTION		UNITS IN SUBM. PERIOD	
INIT REPORTING DATE		REPORTING UNITS	
UNITS IN REPORTING PERIOD		DMR COMMENT	

Limits Report

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
PIPE NUMBER			
PIPE DESCRIPTION		REPORT DESIGNATOR	
DMR COMMENT		LIMIT SET TYPE	

No ICIS Limits Report Found.

Measurements and Violations

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
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No ICIS Measurements Information Found.

Compliance Schedules and Violations

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
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No Compliance Schedules Found.

Pretreatment Inspections/Audits

FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
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No ICIS Pretreatment Inspections Found.

Pretreatment Performance Summary

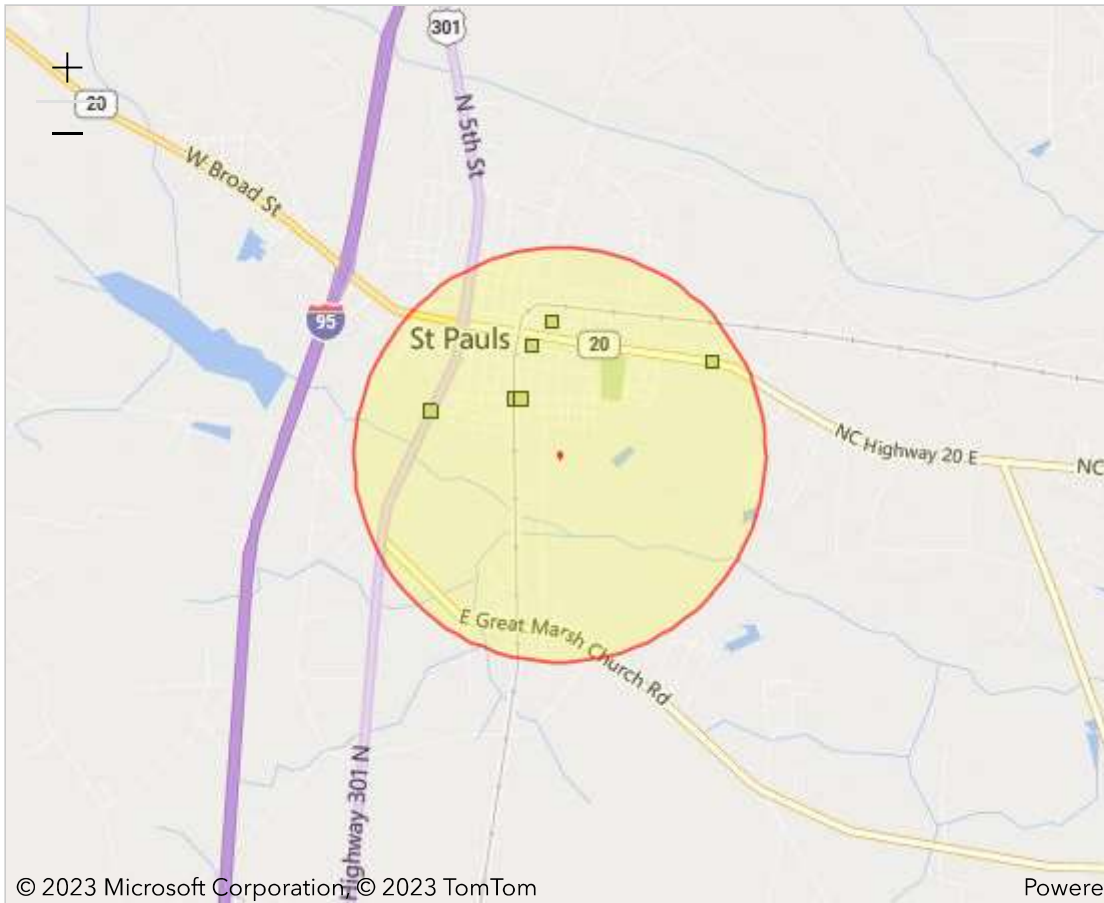
FACILITY NAME (1)	TOWN OF ST PAULS	NPDES	NCL020095
-------------------	------------------	-------	-----------

No ICIS Pretreatment Performance Summary Information Found.

**Note:** You are viewing results from the modernized data system, Integrated Compliance Information System (ICIS). The state reporting this data to EPA previously reported the data to a historic data system, Permit Compliance System (PCS). Use the following button to view the historic data from PCS.    **Run a PCS Search**

Data Refresh Information  
~<<https://epa.gov/resources/echo-data/about-the-data#sources>>





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Powered by Esri (<http://www.esri.com/>)**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:

**Name**☐ CAROLINA MILLS INC PLANT #25 (SAINT PAULS,NC) ([https://enviro.epa.gov/envirofacts/rcrainfo/facility?](https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981856073)

handlerId=NCD981856073)

**REGISTRY\_ID:** 110004025411**LATITUDE:** 34.801934**LONGITUDE:** -78.971656**PGM\_SYS\_ACRNM:** RCRINFO**PGM\_SYS\_ID:** NCD981856073**LOCATION\_ADDRESS:** 107 W CLARK ST**CITY\_NAME:** SAINT PAULS**COUNTY\_NAME:** ROBESON**STATE\_CODE:** NC**EPA\_REGION:** Region 4**POSTAL\_CODE:** 28384-0217**FIPS\_CODE:** 37155**HUC\_CODE:****Distance**

0.35 mile

Name	Distance
<input type="checkbox"/> MINE SAFETY APPLIANCES CO (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCR000145888">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCR000145888">handlerId=NCR000145888</a> ) <b>REGISTRY_ID:</b> 110037425952 <b>LATITUDE:</b> 34.80194 <b>LONGITUDE:</b> -78.971013 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCR000145888 <b>LOCATION_ADDRESS:</b> 106 E CLARK ST <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.33 mile
<input type="checkbox"/> CAROLINA MILLS INC PLANT #26 (SAINT PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD986182335">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD986182335">handlerId=NCD986182335</a> ) <b>REGISTRY_ID:</b> 110004041536 <b>LATITUDE:</b> 34.80732 <b>LONGITUDE:</b> -78.96835 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCD986182335 <b>LOCATION_ADDRESS:</b> 201 E ARMFIELD ST <b>CITY_NAME:</b> SAINT PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384-0157 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.64 mile
<input type="checkbox"/> HUGHES AUTOMOTIVE (ST PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000933">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000933">handlerId=NCS000000933</a> ) <b>REGISTRY_ID:</b> 110035434303 <b>LATITUDE:</b> 34.80452 <b>LONGITUDE:</b> -78.95463 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCS000000933 <b>LOCATION_ADDRESS:</b> 926 E. BROAD ST <b>CITY_NAME:</b> ST PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.87 mile
<input type="checkbox"/> THE MANNING CORP (ST. PAULS,NC) ( <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981865645">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCD981865645">handlerId=NCD981865645</a> ) <b>REGISTRY_ID:</b> 110002099773 <b>LATITUDE:</b> 34.805628 <b>LONGITUDE:</b> -78.970104 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCD981865645 <b>LOCATION_ADDRESS:</b> 8 WEST BLUE ST <b>CITY_NAME:</b> ST. PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b>	0.54 mile

Name	Distance
<div><input type="checkbox"/> FIELDS GARAGE &amp; TOWING (ST PAULS,NC) (<a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000907">https://enviro.epa.gov/envirofacts/rcrainfo/facility?</a> <a href="https://enviro.epa.gov/envirofacts/rcrainfo/facility?handlerId=NCS000000907">handlerId=NCS000000907</a>)</div> <div><p><b>REGISTRY_ID:</b> 110035433251 <b>LATITUDE:</b> 34.801024 <b>LONGITUDE:</b> -78.978776 <b>PGM_SYS_ACRNM:</b> RCRAINFO <b>PGM_SYS_ID:</b> NCS000000907 <b>LOCATION_ADDRESS:</b> 639 S. FIFTH ST. <b>CITY_NAME:</b> ST PAULS <b>COUNTY_NAME:</b> ROBESON <b>STATE_CODE:</b> NC <b>EPA_REGION:</b> Region 4 <b>POSTAL_CODE:</b> 28384 <b>FIPS_CODE:</b> 37155 <b>HUC_CODE:</b></p></div>	0.66 mile

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# RCRAInfo Facility

## Facility Information

**CAROLINA MILLS INC PLANT #25**  
**Handler ID: NCD981856073**  
**107 W CLARK ST**  
**SAINT PAULS, NC 28384-0217**  
**County Name: ROBESON**  
**Latitude: 34.801934**  
**Latitude: -78.971656**  
**Hazardous Waste Generator:**  
**Owner Name: CAROLINA MILLS INC**

NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHARLES STEVEN WEST	PO BOX 217	SAINT PAULS	NC	28384-0217	910-865-3101	Public
CHARLES STEVEN WEST	PO BOX 217	SAINT PAULS	NC	28384-0217	910-865-3101	Permit



## 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

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.



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Plant Information

CAROLINA MILLS PLANT NO 25 \*\* INACTIVE

102 CLARK STREET  
ST PAULS, NC 28384  
EPA Plant ID: 110039005322

Operating Status:	X	HPV Flag:	
Operating Status Description:	PERMANENTLY CLOSED	State Registration Number:	
State County Compliance Source:	3715500140	Government Facility Code Description:	PRIVATELY OWNED/OPERATED
Region Code:	04	Class Code:	<div><div>B</div><div></div></div>
Primary SIC Code:	2281	Class Code Description:	<div>POTENTIAL UNCONTROLLED EM</div>
Primary SIC Description:	YARN MILLS, EXCEPT WOOL	Compliance Status:	<div>9</div> <div></div>
NAICS Code:	313111	Compliance Status Description:	<div>IN COMPLIANCE - SHUT DOWN</div> <div></div>
NAICS Code Description:	Yarn Spinning Mills	Date Plant Information Last Updated:	09/16/2014

## Air Program Information

Air Program Code	Air Program Description	Air Program Status	Air Program Status Description	Air Program Subpart	Air Program Subpart Description	Class Code	Class Code Description								
0	SIP	X	PERMANENTLY CLOSED			<table><tr><td>B</td><td></td></tr><tr><td colspan="2"></td></tr></table>	B				<table><tr><td>POTENTIAL UNCONTROLLED EM</td><td></td></tr><tr><td colspan="2"></td></tr></table>	POTENTIAL UNCONTROLLED EM			
B															
POTENTIAL UNCONTROLLED EM															

## Pollutant Data

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Description
0	CO	CARBON MONOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	NO2	NITROGEN DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	PM10	PARTICULATE MATTER < 10 UM	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	PT	TOTAL PARTICULATE MATTER	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	SO2	SULFUR DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Description
0	VOC	VOLATILE ORGANIC COMPOUNDS	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONFINED EMISSIONS

### Compliance Monitoring Strategy

CMS Start Date	FY2008 CMS Indicator	FY2008 CMS Indicator Description	FY2009 CMS Indicator	FY2009 CMS Indicator Description

### Plant Actions

Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Result Code
90000		0			00	RO ACTION START	27-OCT-02		
00005		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	09-AUG-04		MC
00004		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	10-SEP-02		MC
00003		0			00		30-JUN-00		01

Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Resu Code
00002		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	17-FEB-00		MC
00001		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	03-SEP-97		21

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## Plant Information

### CAROLINA MILLS PLANT NO 25 \*\* INACTIVE

102 CLARK STREET  
ST PAULS, NC 28384  
EPA Plant ID: 110039005322




Operating Status:	X	HPV Flag:					
Operating Status Description:	PERMANENTLY CLOSED	State Registration Number:					
State County Compliance Source:	3715500140	Government Facility Code Description:	PRIVATELY OWNED/OPERATED				
Region Code:	04	Class Code:	<table><tr><td>B</td><td></td></tr><tr><td colspan="2"></td></tr></table>	B			
B							
Primary SIC Code:	2281	Class Code Description:	<table><tr><td>POTENTIAL UNCONTROLLED EM</td><td></td></tr><tr><td colspan="2"></td></tr></table>	POTENTIAL UNCONTROLLED EM			
POTENTIAL UNCONTROLLED EM							
Primary SIC Description:	YARN MILLS, EXCEPT WOOL	Compliance Status:	<table><tr><td>9</td><td></td></tr><tr><td colspan="2"></td></tr></table>	9			
9							



<b>NAICS Code:</b>	313111	<b>Compliance Status Description:</b>	<div><div>IN COMPLIANCE - SHUT DOWN</div><div></div></div>
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<b>NAICS Code Description:</b>	Yarn Spinning Mills	<b>Date Plant Information Last Updated:</b>	09/16/2014

#### Air Program Information

Air Program Code	Air Program Description	Air Program Status	Air Program Status Description	Air Program Subpart	Air Program Subpart Description	Class Code	Class Code Description	Compliance Status	Compliance Status Description																
0	SIP	X	PERMANENTLY CLOSED			<table><tr><td>B</td><td></td></tr><tr><td colspan="2"></td></tr></table>	B				<table><tr><td>POTENTIAL UNCONTROLLED EM</td><td></td></tr><tr><td colspan="2"></td></tr></table>	POTENTIAL UNCONTROLLED EM				<table><tr><td>9</td><td></td></tr><tr><td colspan="2"></td></tr></table>	9				<table><tr><td>IN COMPLIANCE - SHUT DOWN</td><td></td></tr><tr><td colspan="2"></td></tr></table>	IN COMPLIANCE - SHUT DOWN			
B																									
POTENTIAL UNCONTROLLED EM																									
9																									
IN COMPLIANCE - SHUT DOWN																									

#### Pollutant Data

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Class Description
0	CO	CARBON MONOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	NO2	NITROGEN DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Class Description
0	PM10	PARTICULATE MATTER < 10 UM	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	PT	TOTAL PARTICULATE MATTER	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	SO2	SULFUR DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	VOC	VOLATILE ORGANIC COMPOUNDS	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM

---

#### Compliance Monitoring Strategy

CMS Start Date	FY2008 CMS Indicator	FY2008 CMS Indicator Description	FY2009 CMS Indicator	FY2009 CMS Indicator Description

---

### Plant Actions

Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Results Code	Results Code Description	Pollutant Code	Regional Data Element
90000		0			00	RO ACTION START	27-OCT-02					
00005		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	09-AUG-04		MC	IN COMPLIANCE	VOC	
00004		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	10-SEP-02		MC	IN COMPLIANCE	VOC	
00003		0			00		30-JUN-00		01	ACTION ACHIEVED		
00002		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	17-FEB-00		MC	IN COMPLIANCE	PM10	
00001		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	03-SEP-97		21	COMPLIANCE	PM10	

# Detailed Facility Report



## Detailed Facility Report

### Facility Summary

CAROLINA MILLS PLANT NO 25 \*\* INACTIVE

102 CLARK STREET, SAINT PAULS, NC 28384

FRS (Facility Registry Service) ID: 110039005322  
EPA Region: 04  
Latitude: 34.80194  
Longitude: -78.971034  
Locational Data Source: FRS  
Industries: --  
Indian Country: N

### Enforcement and Compliance Summary

No data records returned

#### Regulatory Information

Clean Air Act (CAA): No Information  
Clean Water Act (CWA): No Information  
Resource Conservation and Recovery Act (RCRA): No Information  
Safe Drinking Water Act (SDWA): No Information

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#### 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		110039005322					N	34.80194	-78.971034

### Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110039005322	CAROLINA MILLS PLANT NO 25 ** INACTIVE	102 CLARK STREET, SAINT PAULS, NC 28384	Robeson 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)
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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)
---------	-----------	--------	---------------	----------------------------	-------------	------	-------------------------

No data records returned

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
---------	-----------	---	---------------	--------------------------------------	---------------------

No data records returned

Three-Year Compliance History by Quarter

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)
-----------	-----------------------------------	---	---------------------------------	---

No data records returned

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

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 State

Index Type

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 Environmental Justice

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 Supplemental

Related Reports

[EJScreen Report](#)

Download Data

Census Block Group ID: 371559601023	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	6	--
Particulate Matter 2.5	38	--
Ozone	<div><div></div></div> 80	--
Diesel Particulate Matter	75	--
Air Toxics Cancer Risk	<div><div></div></div> 96	--
Air Toxics Respiratory Hazard Index	<div><div></div></div> 96	--
Traffic Proximity	30	--
Lead Paint	<div><div></div></div> 94	--
Risk Management Plan (RMP) Facility Proximity	78	--
Hazardous Waste Proximity	<div><div></div></div> 86	--
Superfund Proximity	78	--
Underground Storage Tanks (UST)	<div><div></div></div> 95	--
Wastewater Discharge	34	--

☐ 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 the facility 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	2,603
Population Density	849/sq.mi.
Housing Units in Area	1,117

General Statistics (ACS (American Community Survey))	
Total Persons	--
Percent People of Color	--
Households in Area	--
Households on Public Assistance	--
Persons With Low Income	--
Percent With Low Income	--

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.80194
Center Longitude	-78.971034
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	--
\$15,000 - \$25,000	--
\$25,000 - \$50,000	--
\$50,000 - \$75,000	--
Greater than \$75,000	--

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	236 (9%)
Minors 17 years and younger	658 (25%)
Adults 18 years and older	1,946 (75%)
Seniors 65 years and older	386 (15%)

Race Breakdown (U.S. Census) - Persons (%)	
White	1,322 (51%)
African-American	621 (24%)
Hispanic-Origin	613 (24%)
Asian/Pacific Islander	15 (1%)
American Indian	153 (6%)
Other/Multiracial	492 (19%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	--
9th through 12th Grade	--
High School Diploma	--
Some College/2-year	--
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	--

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# RCRAInfo Facility

## Facility Information

**CAROLINA MILLS INC PLANT #26**  
**Handler ID: NCD986182335**  
**201 E ARMFIELD ST**  
**SAINT PAULS, NC 28384-0157**  
**County Name: ROBESON**  
**Latitude: 34.80732**  
**Latitude: -78.96835**  
**Hazardous Waste Generator:**  
**Owner Name: CAROLINA MILLS INC**

NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHARLES STEVEN WEST	PO BOX 157	SAINT PAULS	NC	28384-0157	910-865-3101	Public
CHARLES STEVEN WEST	PO BOX 157	SAINT PAULS	NC	28384-0157	910-865-3101	Permit



## 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

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.



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# Detailed Facility Report



## Detailed Facility Report

### Facility Summary

CAROLINA MILLS INC PLANT #26

201 E ARMFIELD ST, SAINT PAULS, NC 28384

FRS (Facility Registry Service) ID: 110004041536

EPA Region: 04

Latitude: 34.80732

Longitude: -78.96835

Locational Data Source: FRS

Industries: --

Indian Country: N

### Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	08/20/1996
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, (NCD986182335)

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		<a href="#">110004041536</a>					N	34.80732	-78.96835
RCRAInfo	RCRA	NCD986182335	Other	Inactive ( )			N		

## Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<a href="#">110004041536</a>	CAROLINA MILLS INC PLANT #26	201 E ARMFIELD ST, SAINT PAULS, NC 28384	Robeson County
RCRAInfo	RCRA	NCD986182335	CAROLINA MILLS INC PLANT #26	201 E ARMFIELD ST, SAINT PAULS, NC 28384-0157	Robeson 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)
---------	-----------	--------	---------------	----------------------------	-------------	------	-------------------------

No data records returned

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	NCD986182335	No	07/01/2023	0	06/30/2023

## 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	QTR 12+
RCRA (Source ID: NCD986182335)		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	04/01-06/30/23
	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	No Violation Identified
	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)
-----------	-----------------------------------	---	---------------------------------	---

No data records returned

## 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](#).

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Supplemental

#### Related Reports

[EJScreen Report](#)

## Download Data

Census Block Group ID: 371559601023	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	6	6
Particulate Matter 2.5	38	38
Ozone	80	80
Diesel Particulate Matter	75	75
Air Toxics Cancer Risk	96	96
Air Toxics Respiratory Hazard Index	96	96
Traffic Proximity	30	58
Lead Paint	94	94
Risk Management Plan (RMP) Facility Proximity	78	78
Hazardous Waste Proximity	86	86
Superfund Proximity	78	78
Underground Storage Tanks (UST)	95	95
Wastewater Discharge	34	34

○ 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 the facility 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)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	2,806	Children 5 years and younger	254 (9%)

General Statistics (U.S. Census)	
Population Density	893/sq.mi.
Housing Units in Area	1,197
General Statistics (ACS (American Community Survey))	
Total Persons	1,611
Percent People of Color	71%
Households in Area	569
Households on Public Assistance	13
Persons With Low Income	1,097
Percent With Low Income	68%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.80732
Center Longitude	-78.96835
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	131 (23.02%)
\$15,000 - \$25,000	135 (23.73%)
\$25,000 - \$50,000	137 (24.08%)
\$50,000 - \$75,000	63 (11.07%)
Greater than \$75,000	103 (18.1%)

Age Breakdown (U.S. Census) - Persons (%)	
Minors 17 years and younger	710 (25%)
Adults 18 years and older	2,096 (75%)
Seniors 65 years and older	414 (15%)

Race Breakdown (U.S. Census) - Persons (%)	
White	1,392 (50%)
African-American	688 (25%)
Hispanic-Origin	672 (24%)
Asian/Pacific Islander	14 (1%)
American Indian	156 (6%)
Other/Multiracial	556 (20%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	215 (22.47%)
9th through 12th Grade	126 (13.17%)
High School Diploma	367 (38.35%)
Some College/2-year	166 (17.35%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	27 (2.82%)

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## Plant Information


### CAROLINA MILLS PLANT NO 26 \*\* INACTIVE

117 EAST ARMFIELD STREET

ST PAULS, NC 28384

EPA Plant ID: 110039005331

Operating Status:	X	HPV Flag:					
Operating Status Description:	PERMANENTLY CLOSED	State Registration Number:					
State County Compliance Source:	3715500141	Government Facility Code Description:	PRIVATELY OWNED/OPERATED				
Region Code:	04	Class Code:	<table><tr><td>B</td><td></td></tr><tr><td colspan="2"></td></tr></table>	B			
B							
Primary SIC Code:	2281	Class Code Description:	<table><tr><td>POTENTIAL UNCONTROLLED EM</td><td></td></tr><tr><td colspan="2"></td></tr></table>	POTENTIAL UNCONTROLLED EM			
POTENTIAL UNCONTROLLED EM							
Primary SIC Description:	YARN MILLS, EXCEPT WOOL	Compliance Status:	<table><tr><td>9</td><td></td></tr><tr><td colspan="2"></td></tr></table>	9			
9							

<b>NAICS Code:</b>	313111	<b>Compliance Status Description:</b>	<div><div>IN COMPLIANCE - SHUT DOWN</div><div></div></div>
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<b>NAICS Code Description:</b>	Yarn Spinning Mills	<b>Date Plant Information Last Updated:</b>	09/16/2014

### Air Program Information

Air Program Code	Air Program Description	Air Program Status	Air Program Status Description	Air Program Subpart	Air Program Subpart Description	Class Code	Class Code Description	Compliance Status	Compliance Status Description
0	SIP	X	PERMANENTLY CLOSED			B	POTENTIAL UNCONTROLLED EM	9	IN COMPLIANCE - SHUT DOWN

### Pollutant Data

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Class Description
0	CO	CARBON MONOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	NO2	NITROGEN DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Class Description
0	PM10	PARTICULATE MATTER < 10 UM	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	PT	TOTAL PARTICULATE MATTER	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	SO2	SULFUR DIOXIDE	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM
0	VOC	VOLATILE ORGANIC COMPOUNDS	A	ATTAINMENT AREA FOR A GIV	9	IN COMPLIANCE - SHUT DOWN	B	POTENTIAL UNCONTROLLED EM

---

**Compliance Monitoring Strategy**

CMS Start Date	FY2008 CMS Indicator	FY2008 CMS Indicator Description	FY2009 CMS Indicator	FY2009 CMS Indicator Description

---

**Plant Actions**

Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Results Code	Results Code Description	Pollutant Code	Regional Data Element
90000		0			00	RO ACTION START	27-OCT-02					
00007		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	10-SEP-02		MV	IN VIOLATION	SO2	
00006		0			00		30-JUN-00		01	ACTION ACHIEVED		
00005		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	17-FEB-00		01	ACTION ACHIEVED		
00004		0	WL	STATE/LOCAL WARNING LETTER	74	STATE WARNING LETTER SENT	16-JUN-99		01	ACTION ACHIEVED		
00003		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	21-AUG-97		21	COMPLIANCE	PM10	
00002		0	PS	STATE/LOCAL PCE/ON-SITE	27	STATE COMPLIANCE INSPECTION - LEVEL 2 OR GREATER	21-AUG-97		21	COMPLIANCE	PM10	



Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Results Code	Results Code Description	Pollutant Code	Regional Data Element
00001		0	PX	STATE/LOCAL PCE/OFF-SITE	RA	PERMIT RPT - ANNUAL REPORTING CONDITION	15-FEB-96		01	ACTION ACHIEVED	SO2	

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# RCRAInfo Facility

## Facility Information

**MINE SAFETY APPLIANCES CO**  
**Handler ID: NCR000145888**  
**106 E CLARK ST**  
**SAINT PAULS, NC 28384**  
**County Name: ROBESON**  
**Latitude: 34.80194**  
**Latitude: -78.971013**  
**Hazardous Waste Generator: Very Small Quantity Generator**  
**Owner Name: PARACLETE ARMOR & EQUIPMENT INC**

NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JEFF J GRAZER	E CLARK ST	SAINT PAULS	NC	28384	910-865-2425 242	Public
JEFF GRAZER	E CLARK ST	SAINT PAULS	NC	28384	910-865-2425, 242	Permit



## HANDLER / FACILITY CLASSIFICATION

UNSPECIFIED UNIVERSE FOR THE FACILITY LISTED ABOVE.

NO HANDLER INFORMATION IS AVAILABLE FOR THE FACILITY LISTED ABOVE.

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

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE



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### No FEAR Act Data

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<p><b>MINE SAFETY APPLIANCES CO</b> Handler ID: NCR000145888 106 E CLARK ST SAINT PAULS, NC 28384</p> <p><b>County Name:</b> ROBESON</p> <p><b>Latitude:</b> 34.80194 <b>Longitude:</b> -78.971013</p> <p><b>Hazardous Waste Generator:</b> Very Small Quantity Generator</p> <p><b>Owner Name:</b> PARACLETE ARMOR &amp; EQUIPMENT INC</p>		<p><i>*You can navigate within the map with your mouse.</i></p>
<p><b>No BIENNIAL REPORT data is available for the facility listed above.</b></p>		

**LIST OF FACILITY CONTACTS**

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GRAZER J JEFF	106 E CLARK ST	SAINT PAULS	NC	28384	910-865- 2425242	Public
JEFF GRAZER	E CLARK ST	SAINT PAULS	NC	28384	910-865- 2425, 242	Permit

**HANDLER / FACILITY CLASSIFICATION**

HANDLER TYPE	LAND DISPOSAL	INCINERATOR	BOILER AND OR INDUSTRIAL FURNACE	STORAGE	TREATMENT
Unspecified Universe for the facility listed above.					

HANDLER TYPE
Very Small Quantity Generator

**No PROCESS INFORMATION is available for the facility listed above.**

**LIST OF NAICS CODES AND DESCRIPTIONS**

NAICS CODE	NAICS DESCRIPTION
339113	SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

**No Waste Codes are available for the facility listed above.**



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# RCRAInfo Facility

## Facility Information

**HUGHES AUTOMOTIVE**  
**Handler ID: NCS000000933**  
**926 E. BROAD ST**  
**ST PAULS, NC 28384**  
**County Name: ROBESON**  
**Latitude: 34.80452**  
**Latitude: -78.95463**  
**Hazardous Waste Generator:**  
**Owner Name:**

**NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.**

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GREY HUGHES	E. BROAD ST	ST PAULS	NC	28384	910-865-4466	Public
GREY HUGHES	E. BROAD ST	ST PAULS	NC	28384	910-865-4466	Permit



## 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.

NO WASTE CODES ARE AVAILABLE FOR THE FACILITY LISTED ABOVE.



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### No FEAR Act Data

<<https://www.epa.gov/ocr/whistleblower-protections-epa-and-how-they-relate-non-disclosure-agreements-signed-epa-employees>>

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Detailed Facility Report

Facility Summary

HUGHES AUTOMOTIVE

926 E. BROAD ST, ST PAULS, NC 28384

FRS (Facility Registry Service) ID: 110035434303  
EPA Region: 04  
Latitude: 34.80452  
Longitude: -78.95463  
Locational Data Source: FRS  
Industries: --  
Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	07/27/2006
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, (NCS000000933)  
Safe Drinking Water Act (SDWA): No Information  
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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		<a href="#">110035434303</a>					N	34.80452	-78.95463
RCRAInfo	RCRA	NCS000000933	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<a href="#">110035434303</a>	HUGHES AUTOMOTIVE	926 E. BROAD ST, ST PAULS, NC 28384	Robeson County
RCRAInfo	RCRA	NCS000000933	HUGHES AUTOMOTIVE	926 E. BROAD ST, ST PAULS, NC 28384	Robeson 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 (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

### 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	NCS000000933	No	04/02/2022	0	04/01/2022

### 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	QTR 12+
RCRA (Source ID: NCS000000933)		04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	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
	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	No Violation Identified
	Violation	Agency											

### Informal Enforcement Actions (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 (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 Cost	Comp Action Cost
No data records returned															

## Environmental Conditions

### Watersheds

12-Digit WRD (Watershed Boundary Dataset) HUC (R.A.D. (Reach Address Database))	WRD (Watershed Boundary Dataset) Subwatershed Name (R.A.D. (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)
No data records returned				

## 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

EJSCREEN EJ Indexes

Eleven environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that 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](#).

Census Block Group EJ Indexes (percentile)	
Particulate Matter (PM 2.5)	72.6
Ozone	73
NATA Diesel PM	68
NATA Air Toxics Cancer Risk	73
NATA Respiratory Hazard Index (HI)	73
Traffic Proximity	59.1
Lead Paint Indicator	73.7
National Priority List (NPL) Site Proximity	70
Risk Management Plan (RMP) Site Proximity	69.1
Hazardous Waste Proximity	66.3
Wastewater Discharge Proximity	77.2

Number of EJ Indexes Above 80th Percentile
0

[View EJSCREEN Report](#)

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 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility 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	1,879
Population Density	606/sq.mi.
Housing Units in Area	750

General Statistics (ACS (American Community Survey))	
Total Persons	1,227
Percent People of Color	63%
Households in Area	437
Households on Public Assistance	12
Persons With Low Income	834
Percent With Low Income	68%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.80452
Center Longitude	-78.95463
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	122 (28.11%)
\$15,000 - \$25,000	86 (19.82%)
\$25,000 - \$50,000	135 (31.11%)
\$50,000 - \$75,000	52 (11.98%)
Greater than \$75,000	39 (8.99%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	206 (11%)
Minors 17 years and younger	509 (27%)
Adults 18 years and older	1,370 (73%)
Seniors 65 years and older	227 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	699 (37%)
African-American	620 (33%)
Hispanic-Origin	504 (27%)
Asian/Pacific Islander	6 (0%)
American Indian	102 (5%)
Other/Multiracial	452 (24%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	99 (12.86%)
9th through 12th Grade	101 (13.12%)
High School Diploma	360 (46.75%)
Some College/2-year	187 (24.29%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	23 (2.99%)





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# RCRAInfo Facility

## Facility Information

**THE MANNING CORP**  
**Handler ID: NCD981865645**  
**8 WEST BLUE ST**  
**ST. PAULS, NC 28384**  
**County Name: ROBESON**  
**Latitude: 34.805628**  
**Latitude: -78.970104**  
**Hazardous Waste Generator:**  
**Owner Name: EDWARD N MANNING**

**NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.**

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
RODNEY JORDAN	8 WEST BLUE ST	ST. PAULS	NC	28384	919-295-1970	Public
RODNEY JORDAN	8 WEST BLUE ST	ST. PAULS	NC	28384	919-295-1970	Permit



## 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

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE



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Detailed Facility Report

Facility Summary

MANNING CORP

8 W. BLUE ST., SAINT PAULS, NC 28384

FRS (Facility Registry Service) ID: 110002099773  
EPA Region: 04  
Latitude: 34.805628  
Longitude: -78.970104  
Locational Data Source: TRIS  
Industries: Textile Mills  
Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	08/13/1998
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, (NCD981865645)  
Safe Drinking Water Act (SDWA): No Information  
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Other Regulatory Reports

Air Emissions Inventory (EIS): No Information  
Greenhouse Gas Emissions (eGGRT): No Information  
Toxic Releases (TRI): 28384THMNN8WEST  
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		<a href="#">110002099773</a>					N	34.805628	-78.970104
TRI	EP313	28384THMNN8WEST	Toxics Release Inventory	Last Reported for 1991			N	34.805628	-78.970104
RCRAInfo	RCRA	NCD981865645	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<a href="#">110002099773</a>	MANNING CORP	8 W. BLUE ST., SAINT PAULS, NC 28384	Robeson County
TRI	EP313	28384THMNN8WEST	MANNING CORP	8 W BLUE ST, SAINT PAULS, NC 28384	Robeson County
RCRAInfo	RCRA	NCD981865645	THE MANNING CORP	8 WEST BLUE ST, ST. PAULS, NC 28384	Robeson County

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description
TRI	28384THMNN8WEST	2299	Textile Goods	TRI	28384THMNN8WEST	313210	Broadwoven Fabric Mills

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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No data records returned

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
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No data records returned

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current <u>SNC (Significant Noncompliance)</u> / <u>HPV (High Priority Violation)</u>	Current As Of	Qtrs with <u>NC (Noncompliance)</u> (of 12)	Data Last Refreshed
RCRA	NCD981865645	No	04/02/2022	0	04/01/2022

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	QTR 12+
RCRA (Source ID: NCD981865645)		04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	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
	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	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions (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 (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 Cost	Comp Action Cost
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No data records returned

Environmental Conditions

Watersheds

<u>12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))</u>	<u>WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))</u>	<u>State Water Body Name (ICIS (Integrated Compliance Information System))</u>	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with <u>ESA (Endangered Species Act)</u> -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
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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)
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No data records returned

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 <u>POTWs (Publicly Owned Treatment Works)</u>	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

## EJSCREEN EJ Indexes

Eleven environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that 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](#).

Census Block Group EJ Indexes (percentile)		Number of EJ Indexes Above 80th Percentile
Particulate Matter (PM 2.5)	81.7	5
Ozone	82.5	
NATA Diesel PM	74.7	
NATA Air Toxics Cancer Risk	82.1	
NATA Respiratory Hazard Index (HI)	82.3	
Traffic Proximity	62.2	
Lead Paint Indicator	89.9	
National Priority List (NPL) Site Proximity	75.7	
Risk Management Plan (RMP) Site Proximity	73.1	
Hazardous Waste Proximity	73.6	
Wastewater Discharge Proximity	78.4	

View EJSCREEN Report

## 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 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility 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)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	2,760	Children 5 years and younger	251 (9%)
Population Density	903/sq.mi.	Minors 17 years and younger	699 (25%)
Housing Units in Area	1,180	Adults 18 years and older	2,062 (75%)
		Seniors 65 years and older	410 (15%)

General Statistics (ACS (American Community Survey))		Race Breakdown (U.S. Census) - Persons (%)	
Total Persons	1,490	White	1,375 (50%)
Percent People of Color	62%	African-American	674 (24%)
Households in Area	547	Hispanic-Origin	659 (24%)
Households on Public Assistance	10	Asian/Pacific Islander	16 (1%)
Persons With Low Income	1,004	American Indian	153 (6%)
Percent With Low Income	67%	Other/Multiracial	543 (20%)

Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	135 (14.41%)
Center Latitude	34.805628	9th through 12th Grade	116 (12.38%)
Center Longitude	-78.970104	High School Diploma	437 (46.64%)
Land Area	100%	Some College/2-year	218 (23.27%)
Water Area	0%	B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	28 (2.99%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	156 (28.52%)
\$15,000 - \$25,000	125 (22.85%)
\$25,000 - \$50,000	153 (27.97%)
\$50,000 - \$75,000	63 (11.52%)
Greater than \$75,000	50 (9.14%)



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# RCRAInfo Facility

## Facility Information

**FIELDS GARAGE & TOWING**  
**Handler ID: NCS000000907**  
**639 S. FIFTH ST.**  
**ST PAULS, NC 28384**  
**County Name: ROBESON**  
**Latitude: 34.801024**  
**Latitude: -78.978776**  
**Hazardous Waste Generator:**  
**Owner Name:**

**NO BIENNIAL REPORT DATA IS AVAILABLE FOR THE FACILITY LISTED ABOVE.**

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JIMMY FIELDS	S. FIFTH ST.	ST PAULS	NC	28384	910-865-4695	Public
JIMMY FIELDS	S. FIFTH ST.	ST PAULS	NC	28384	910-865-4695	Permit



## 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.

NO WASTE CODES ARE AVAILABLE FOR THE FACILITY LISTED ABOVE.



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## Follow.



Last updated on July 5, 2023



Detailed Facility Report

Facility Summary

FIELDS GARAGE & TOWING

639 S. FIFTH ST., ST PAULS, NC 28384

FRS (Facility Registry Service) ID: 110035433251  
EPA Region: 04  
Latitude: 34.801024  
Longitude: -78.978776  
Locational Data Source: FRS  
Industries: --  
Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	02/11/2013
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, (NCS000000907)  
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		<a href="#">110035433251</a>					N	34.801024	-78.978776
RCRAInfo	RCRA	NCS000000907	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<a href="#">110035433251</a>	FIELDS GARAGE & TOWING	639 S. FIFTH ST., ST PAULS, NC 28384	Robeson County
RCRAInfo	RCRA	NCS000000907	FIELDS GARAGE & TOWING	639 S. FIFTH ST., ST PAULS, NC 28384	Robeson County

Facility SIC (Standard Industrial Classification) Codes

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	SIC Code	SIC Description	System	Identifier	NAICS Code	NAICS Description
No data records returned				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 (5 years)

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

### 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	NCS000000907	No	04/02/2022	0	04/01/2022

### 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	QTR 12+
RCRA (Source ID: NCS000000907)		04/01-06/30/19	07/01-09/30/19	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	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
	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	No Violation Identified
	Violation	Agency											

### Informal Enforcement Actions (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 (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 Cost	Comp Action Cost
No data records returned															

## Environmental Conditions

### Watersheds

12-Digit WRD (Watershed Boundary Dataset) HUC (R.A.D. (Reach Address Database))	WRD (Watershed Boundary Dataset) Subwatershed Name (R.A.D. (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)
No data records returned				

## 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

EJSCREEN EJ Indexes

Eleven environmental justice (EJ) indexes of EJSCREEN, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group in which the facility is located. Note that 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](#).

Census Block Group EJ Indexes (percentile)	
Particulate Matter (PM 2.5)	81.7
Ozone	82.5
NATA Diesel PM	74.7
NATA Air Toxics Cancer Risk	82.1
NATA Respiratory Hazard Index (HI)	82.3
Traffic Proximity	62.2
Lead Paint Indicator	89.9
National Priority List (NPL) Site Proximity	75.7
Risk Management Plan (RMP) Site Proximity	73.1
Hazardous Waste Proximity	73.6
Wastewater Discharge Proximity	78.4

Number of EJ Indexes Above 80th Percentile
5

[View EJSCREEN Report](#)

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 2014 - 2018 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility 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	2,146
Population Density	709/sq.mi.
Housing Units in Area	930

General Statistics (ACS (American Community Survey))	
Total Persons	1,088
Percent People of Color	63%
Households in Area	417
Households on Public Assistance	8
Persons With Low Income	753
Percent With Low Income	69%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.801024
Center Longitude	-78.978776
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	114 (27.27%)
\$15,000 - \$25,000	97 (23.21%)
\$25,000 - \$50,000	118 (28.23%)
\$50,000 - \$75,000	50 (11.96%)
Greater than \$75,000	39 (9.33%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	175 (8%)
Minors 17 years and younger	506 (24%)
Adults 18 years and older	1,640 (76%)
Seniors 65 years and older	336 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	1,265 (59%)
African-American	334 (16%)
Hispanic-Origin	500 (23%)
Asian/Pacific Islander	11 (1%)
American Indian	135 (6%)
Other/Multiracial	400 (19%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	100 (14.43%)
9th through 12th Grade	93 (13.42%)
High School Diploma	317 (45.74%)
Some College/2-year	153 (22.08%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	28 (4.04%)



# Detailed Facility Report



## Detailed Facility Report

### Facility Summary

ST PAULS COMPLAINT

803 5TH ST, ST PAULS, NC 28384

FRS (Facility Registry Service) ID: 110038886756

EPA Region: 04

Latitude: 34.816489

Longitude: -78.974732

Locational Data Source: FRS

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, (NCS000001292)

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		<u>110038886756</u>					N	34.816489	-78.974732
RCRAInfo	RCRA	NCS000001292	Other	Inactive ( )			N		

## Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110038886756</u>	ST PAULS COMPLAINT	803 5TH ST, ST PAULS, NC 28384	Robeson County
RCRAInfo	RCRA	NCS000001292	ST PAULS COMPLAINT	803 5TH ST, ST PAULS, NC 28384	Robeson County

## Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

## Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

## Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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No data records returned

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	NCS000001292	No	07/15/2023	0	07/14/2023

## 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	QTR 12+
	RCRA (Source ID: NCS000001292)	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	04/01-06/30/23	07/01-09/30/23
	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	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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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
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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)
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No data records returned

## 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: 371559601021	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	0	6
Particulate Matter 2.5	19	38
Ozone	50	80
Diesel Particulate Matter	48	75
Air Toxics Cancer Risk	71	96
Air Toxics Respiratory Hazard Index	74	96
Traffic Proximity	57	58
Lead Paint	59	94
Risk Management Plan (RMP) Facility Proximity	64	78
Hazardous Waste Proximity	68	86
Superfund Proximity	54	78
Underground Storage Tanks (UST)	64	95
Wastewater Discharge	11	34

○ 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 the facility 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)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	1,979	Children 5 years and younger	143 (7%)

General Statistics (U.S. Census)	
Population Density	599/sq.mi.
Housing Units in Area	893
General Statistics (ACS (American Community Survey))	
Total Persons	812
Percent People of Color	62%
Households in Area	285
Households on Public Assistance	3
Persons With Low Income	413
Percent With Low Income	51%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	34.816489
Center Longitude	-78.974732
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	52 (18.44%)
\$15,000 - \$25,000	48 (17.02%)
\$25,000 - \$50,000	73 (25.89%)
\$50,000 - \$75,000	40 (14.18%)
Greater than \$75,000	69 (24.47%)

Age Breakdown (U.S. Census) - Persons (%)	
Minors 17 years and younger	452 (23%)
Adults 18 years and older	1,527 (77%)
Seniors 65 years and older	332 (17%)
Race Breakdown (U.S. Census) - Persons (%)	
White	1,085 (55%)
African-American	505 (26%)
Hispanic-Origin	322 (16%)
Asian/Pacific Islander	15 (1%)
American Indian	116 (6%)
Other/Multiracial	259 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	56 (10.57%)
9th through 12th Grade	83 (15.66%)
High School Diploma	183 (34.53%)
Some College/2-year	126 (23.77%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	32 (6.04%)

LAST UPDATED ON SEPTEMBER 21, 2022

DATA REFRESH INFORMATION



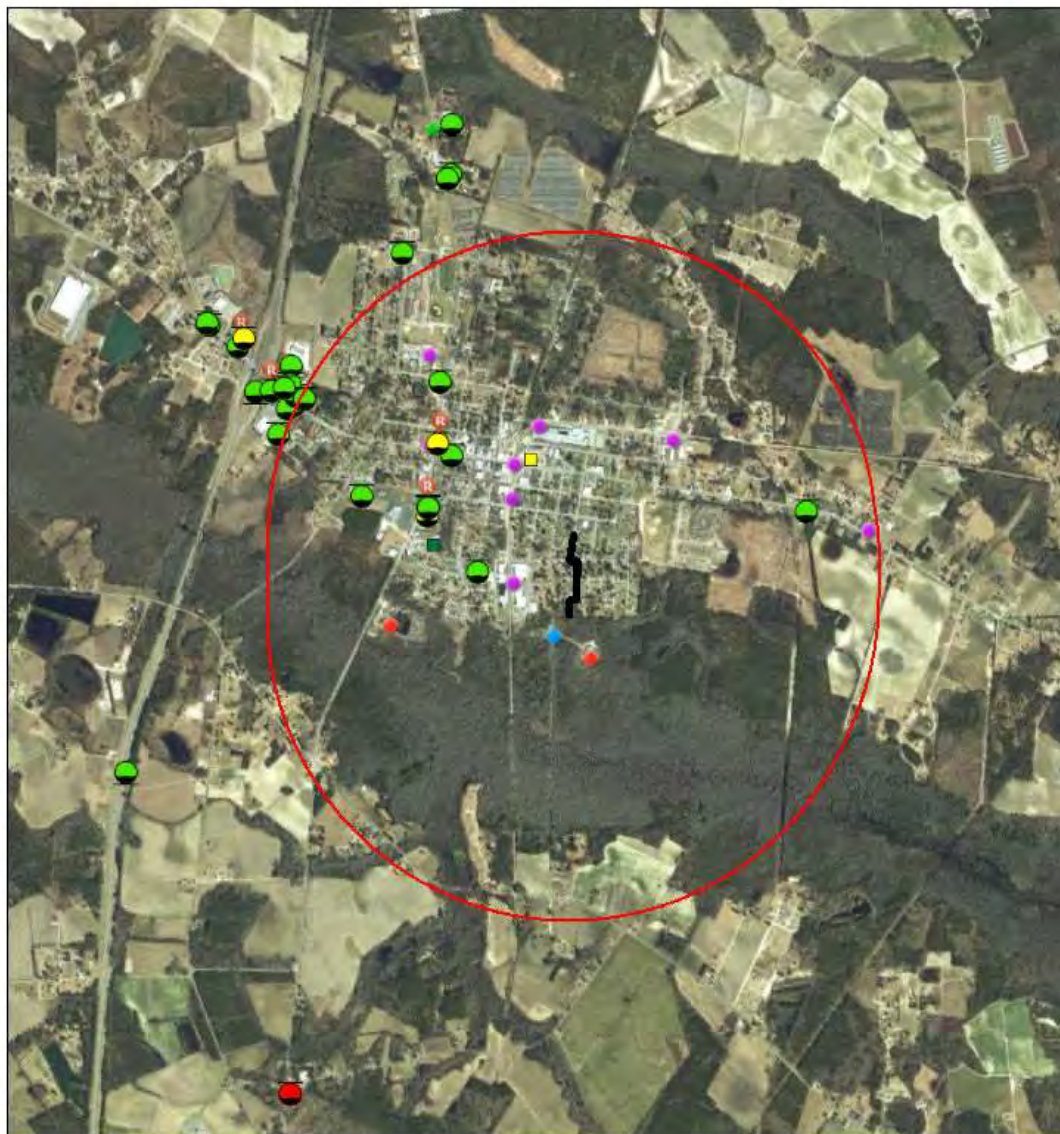


# St. Pauls Flood Imp. (Northern) Project - 1-mile Screening Report

## Area of Interest (AOI) Information

Area : 103,319,675.35 ft<sup>2</sup>

Jul 8 2023 12:40:12 Eastern Daylight Time



## Land Clearing and Inert Debris (LICD) Notifications

#	Site_ID	Site_Name	Count
1	N0398	St. Pauls Demolition Site #78A	1

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1
2	78F-DEMO-	Fields Site	1

## DryCleaning Historical Boiler Inspections

#	Drycleaner	InspDate	Count
1	CAUDELL QUALITY CLEANERS	5/15/1978	1

## DryCleaning City Directories

#	Drycleaner	Address	Count
1	Kelly's Cleaners	115 East Broad Street, St. Pauls,NC	1
2	Village Square Laundry	347 South 5th Street, St. Pauls,NC	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	11635	FISHERS SERVICE STATION	1
2	23447	RS FOOD MART 1	1
3	29422	ST. PAULS WELL 2	1
4	29444	INMAN PLUMBING	1
5	29449	WALKER'S CONVENIENCE STORE	1
6	47512	HAPPY MART 3	1
7	47601	Woods Quick Stop	1
8	No Data	BUIES OIL	1
9	No Data	HUBERT HOLDER FACILITY	1
10	No Data	TOWN OF ST. PAULS MAINTENANCE	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000002737	THE MANNING CORP	1
2	00-0-0000018272	CONVENIENT ZONE	1
3	00-0-0000019033	MINUTEMAN FOOD MART #42	1
4	00-0-0000019891	D.D. MCCOLL INC	1
5	00-0-0000019931	FIVE STAR DISCOUNT	1
6	00-0-0000026873	JOEY'S PLACE, LLC	1
7	00-0-0000026910	CAROLINA MILLS PLANT #25	1
8	00-0-0000027724	CAROLINA MILLS PLANT 26	1
9	00-0-0000027821	ST PAULS MIDDLE SCHOOL	1
10	00-0-0000027822	ST PAULS ELEMENTARY SCHOOL	1
11	00-0-0000033200	HAPPY MART 3	1

#### Land Use Restriction and/or Notices

#	Prj_Number	Prj_Name	Count
1	FA-1252	RS FOOD MART 1	1
2	FA-3284	WALKER'S CONVENIENCE STORE	1



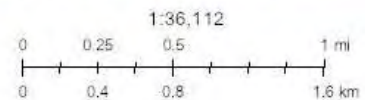
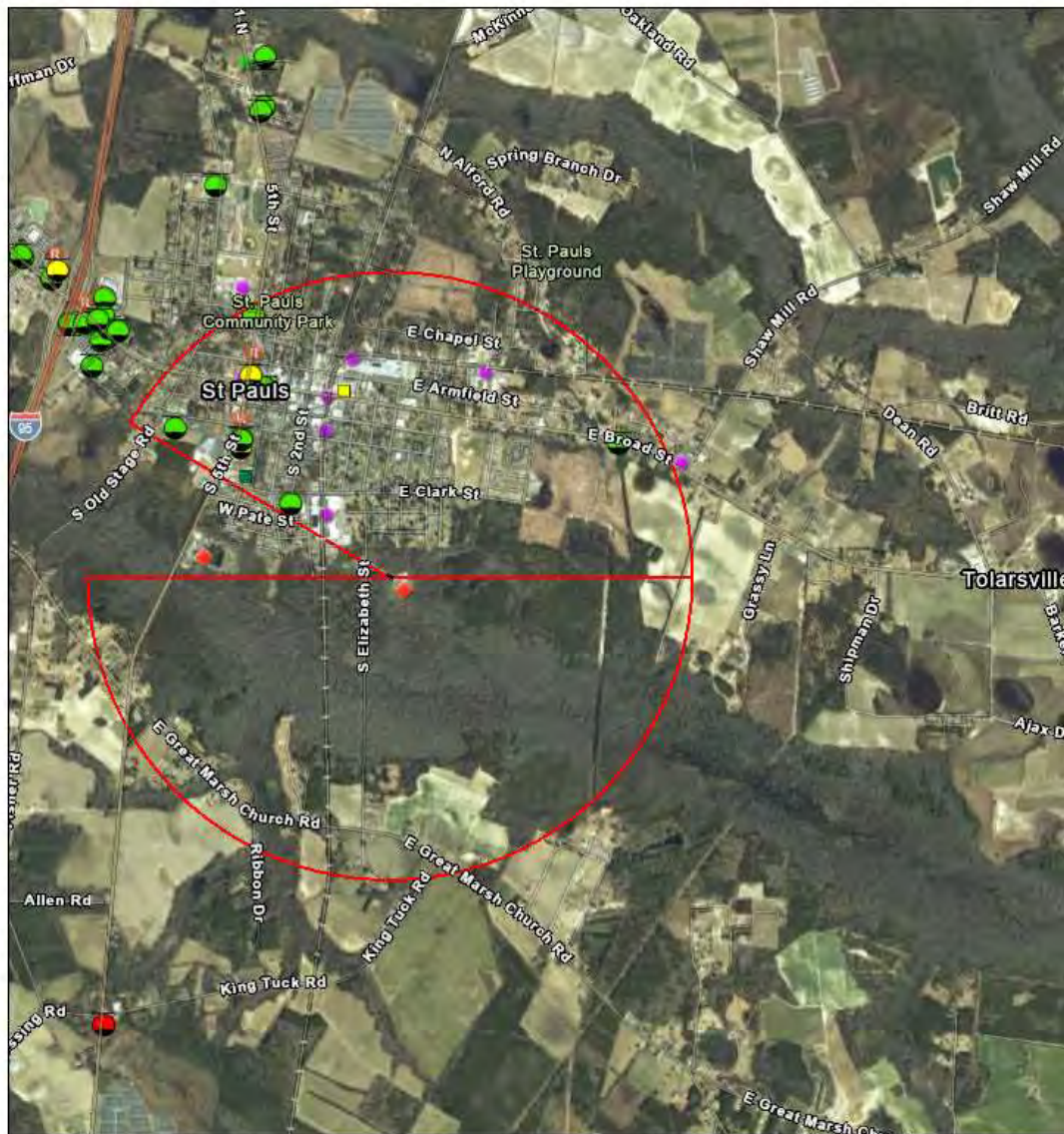


# St. Pauls Flood Imp. (Southern) Project - 1-mile Screening Report

## Area of Interest (AOI) Information

Area : 80,697,835.55 ft<sup>2</sup>

Jul 16 2023 10:32:28 Eastern Daylight Time



NCDOT GIS Unit. Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1

## DryCleaning Historical Boiler Inspections

#	Drycleaner	InspDate	Count
1	CAUDELL QUALITY CLEANERS	5/15/1978	1

## DryCleaning City Directories

#	Drycleaner	Address	Count
1	Kelly's Cleaners	115 East Broad Street, St. Pauls,NC	1
2	Village Square Laundry	347 South 5th Street, St. Pauls,NC	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	11635	FISHERS SERVICE STATION	1
2	23447	RS FOOD MART 1	1
3	29422	ST. PAULS WELL 2	1
4	29444	INMAN PLUMBING	1
5	29449	WALKER'S CONVENIENCE STORE	1
6	47601	Woods Quick Stop	1
7	No Data	BUIES OIL	1
8	No Data	HUBERT HOLDER FACILITY	1
9	No Data	TOWN OF ST. PAULS MAINTENANCE	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000002737	THE MANNING CORP	1
2	00-0-0000019033	MINUTEMAN FOOD MART #42	1
3	00-0-0000019891	D.D. MCCOLL INC	1
4	00-0-0000019931	FIVE STAR DISCOUNT	1
5	00-0-0000026873	JOEY'S PLACE, LLC	1
6	00-0-0000026910	CAROLINA MILLS PLANT #25	1
7	00-0-0000027724	CAROLINA MILLS PLANT 26	1
8	00-0-0000027822	ST PAULS ELEMENTARY SCHOOL	1

## Land Use Restriction and/or Notices

#	Prj_Number	Prj_Name	Count
1	FA-1252	RS FOOD MART 1	1
2	FA-3284	WALKER'S CONVENIENCE STORE	1



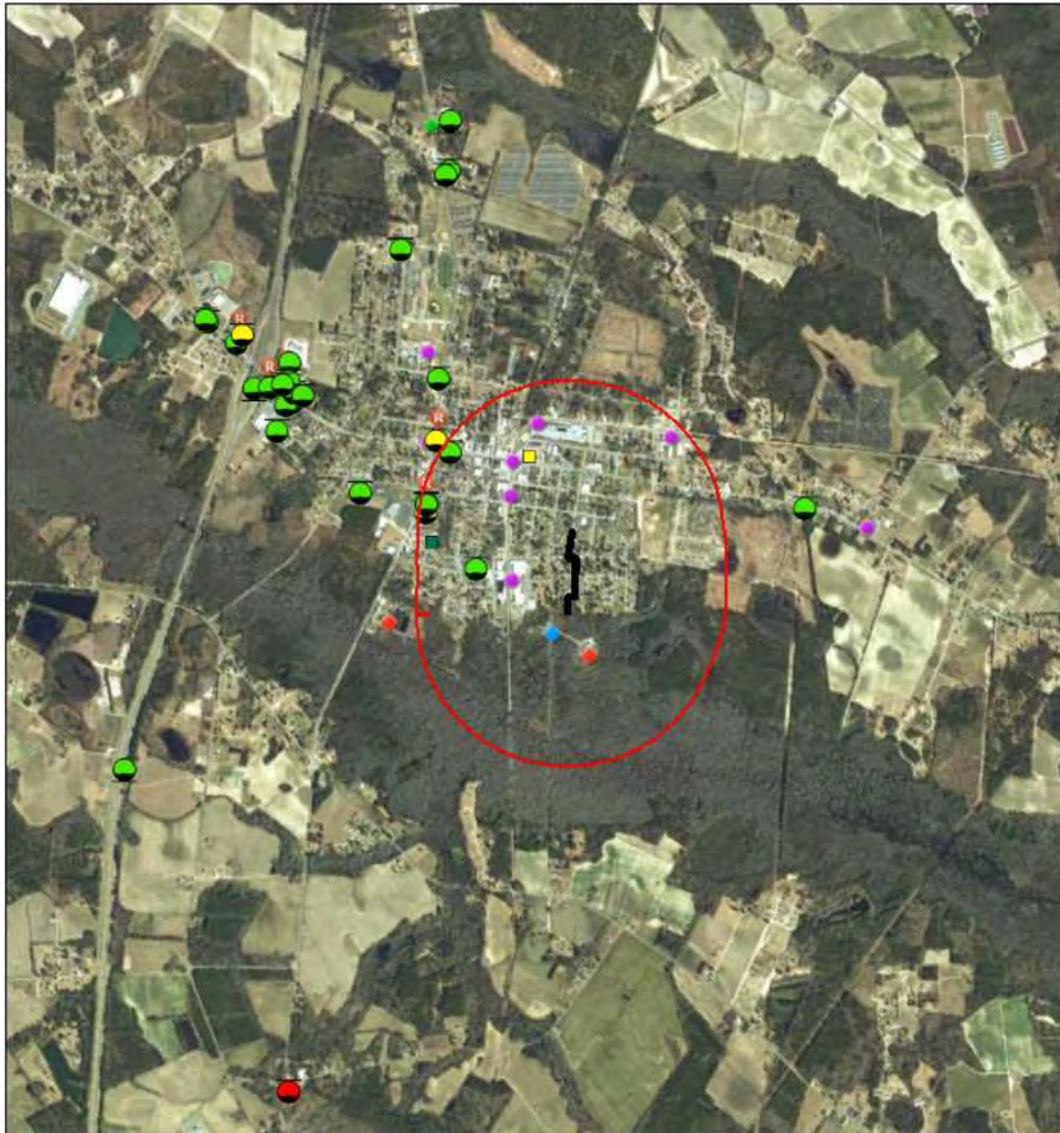


# St. Pauls Flood Imp. (Northern) Project - 0.5-mile Screening Report

## Area of Interest (AOI) Information

Area : 29,828,752.72 ft<sup>2</sup>

Jul 8 2023 12:41:42 Eastern Daylight Time



## Land Clearing and Inert Debris (LICD) Notifications

#	Site_ID	Site_Name	Count
1	N0398	St. Pauls Demolition Site #78A	1

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1

## DryCleaning Historical Boiler Inspections

#	Drycleaner	InspDate	Count
1	CAUDELL QUALITY CLEANERS	5/15/1978	1

## DryCleaning City Directories

#	Drycleaner	Address	Count
1	Kelly's Cleaners	115 East Broad Street, St. Pauls,NC	1
2	Village Square Laundry	347 South 5th Street, St. Pauls,NC	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	29422	ST. PAULS WELL 2	1
2	29444	INMAN PLUMBING	1
3	29449	WALKER'S CONVENIENCE STORE	1
4	47601	Woods Quick Stop	1
5	No Data	BUIES OIL	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000002737	THE MANNING CORP	1
2	00-0-0000019891	D.D. MCCOLL INC	1
3	00-0-0000026873	JOEY'S PLACE, LLC	1
4	00-0-0000026910	CAROLINA MILLS PLANT #25	1
5	00-0-0000027724	CAROLINA MILLS PLANT 26	1
6	00-0-0000027822	ST PAULS ELEMENTARY SCHOOL	1

## Land Use Restriction and/or Notices

#	Prj_Number	Prj_Name	Count
1	FA-3284	WALKER'S CONVENIENCE STORE	1



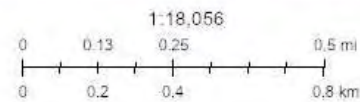
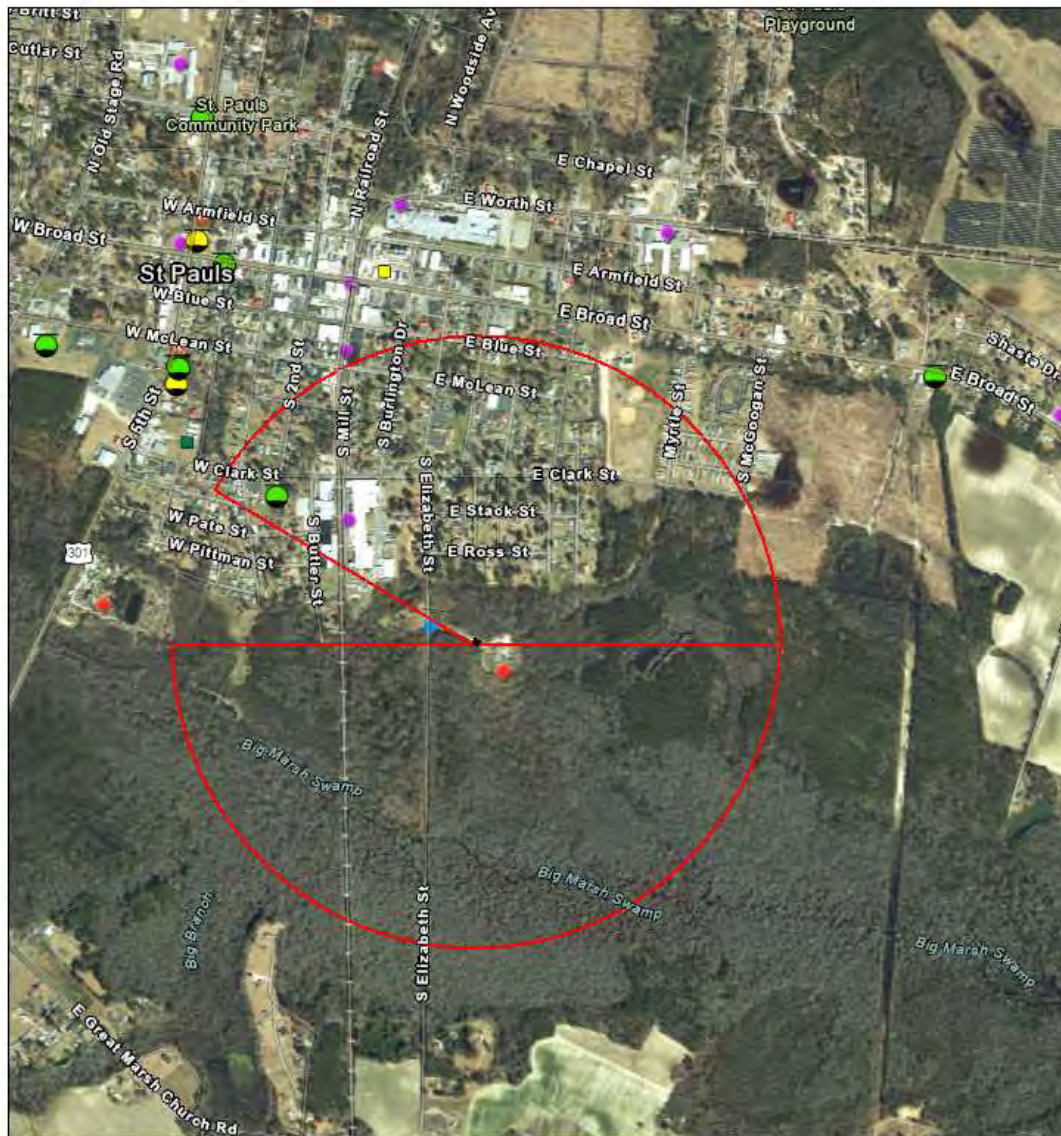


# St. Pauls Flood Imp. (Southern) Project - 0.5-mile Screening Report

## Area of Interest (AOI) Information

Area : 20,326,955.72 ft<sup>2</sup>

Jul 16 2023 10:55:42 Eastern Daylight Time



NCDOT GIS Unit, Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, Swire, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	29422	ST. PAULS WELL 2	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000026910	CAROLINA MILLS PLANT #25	1



North Carolina Department of Environmental Quality

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

September 25, 2015

Mr. Walker Trawick  
Walker's Convenience Store  
315 South 5<sup>th</sup> Street  
St. Pauls, NC 28384

Re: Notice of No Further Action  
15A NCAC 2L .0407(d)  
Risk-based Assessment and Corrective Action  
for Petroleum Underground Storage Tanks

*Walker's Convenience Store  
315 South 5<sup>th</sup> Street  
St. Pauls, Robeson County  
Incident Number: 29449  
Risk Classification: Low  
Ranking: L-180-A*

Dear Mr. Trawick:

The Pre-CAP Monitoring Report received by the UST Section, Division of Waste Management, Fayetteville Regional Office on February 13, 2015 has been reviewed. The review indicates that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. All required actions have been completed. On September 24, 2015, the UST Section received a certified copy of the Notice of Residual Petroleum which is filed with the Robeson County Register of Deeds (Bk: D 2007, Pg: 727-730). On September 24, 2015, the UST Section was provided with proof of receipt of the conditional Notice of No Further Action letter or of refusal by the addressee to accept delivery of the letter or with a description of the manner in which the letter was posted.

This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where groundwater contamination is expected to migrate is not suitable for use as a water supply.

Interested parties may examine the UST Section incident file by contacting this regional office and may submit comments on the site to the Fayetteville Regional Office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact Kenneth Currie at the Fayetteville Regional Office address or telephone number listed below.

Sincerely,

Handwritten signature of Wayne Randolph, followed by the word "for".

Wayne Randolph, Regional Supervisor  
Fayetteville Regional Office  
UST Section, Division of Waste Management

Attachments: Notice of Residual Petroleum

c: Mr. William J. Smith, Director, Robeson County Health Department (*via email attachment*)  
Mrs. Laura Minor, Resolve Environmental Services, PLLC (*via email attachment*)

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)** – 450 West Hanes Mill Road, Suite 300, Winston-Salem, NC 27105 (336) 776-9800

**Guilford County Environmental Health**, 400 West Market Street, Suite 300, Greensboro, NC 27401 (336) 641-3771

RETURN: RESOLVE ENVIRONMENTAL  
410 E. FRANKLIN ST.  
MONROE, NC 28112  
|||||

2015007201  
ROBESON CO, NC FEE \$26.00  
PRESENTED & RECORDED:  
09-02-2015 03:20:57 PM  
VICKI L LOCKLEAR  
REGISTER OF DEEDS  
BY: TOMASA MORALES PEAVY  
ASSISTANT  
BK: D 2007  
PG: 727-730  
|||||

## NOTICE OF RESIDUAL PETROLEUM

Walker's Convenience Store, Robeson County, North Carolina  
(Site name)

The property that is the subject of this Notice (hereinafter referred to as the "Site") contains residual petroleum and is an Underground Storage Tank (UST) incident under North Carolina's Statutes and Regulations, which consist of N.C.G.S. 143-215.94 and regulations adopted thereunder. This Notice is part of a remedial action for the Site that has been approved by the Secretary (or his/her delegate) of the North Carolina Department of Environment and Natural Resources (or its successor in function), as authorized by N.C.G.S. Section 143B-279.9 and 143B-279.11. The North Carolina Department of Environment and Natural Resources shall hereinafter be referred to as "DENR".

### NOTICE

Petroleum product was released and/or discharged at the Site. Petroleum constituents remain on the site, but are not a danger to public health and the environment, provided that the restrictions described herein, and any other measures required by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11, are strictly complied with. This "Notice of Residual Petroleum" is composed of a description of the property, the location of the residual petroleum and the land use restrictions on the Site. The Notice has been approved and notarized by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11 and has/shall be recorded at the Robeson Register of Deeds' office  
(name of county)

Book \_\_\_\_, Page \_\_\_\_.

Any map or plat required by DENR has been/shall be recorded at the \_\_\_\_\_ Register of Deeds' office Book \_\_\_\_, Page \_\_\_\_, and has been/shall be incorporated into the Notice by this reference.  
(name of county)

### Source Property

Walker P. Trawick of St. Pauls, NC is the owner in fee  
(owner's name) (city & state of homeowner)  
simple of all or a portion of the Site, which is located in the County of Robeson, State of North Carolina, and is known and legally described as:

Book 807 Page 0186: Lying and being just South of the Town of Saint Pauls, on the East side of and adjacent to U.S. Highway No. 301, and on the North side of but not adjacent to Clark Street, and being a portion of the lands formerly belonging to Annie Inman, deceased, and being more particularly bounded and described as follows, to-wit: BEGINNING at an iron stake planted in the Eastern edge of U.S. Highway No. 301, said Beginning point being the Northwest corner of Tract No. 7 as shown and designated on the map hereinafter referred to, and running as the Northern boundary of Tract No. 7, South 78 degrees 32 minutes East 100 feet to a stake in said line; thence South 28 degrees 23 minutes West about 128 feet, more or less, to a stake planed in the dividing line between Tracts Nos. 6 and 7 as shown on the map hereinafter referred to; thence as the dividing line between Tracts Nos. 6 and 7, North 77 degrees 33 minutes West about 100 feet, more or less, to the Eastern edge of U.S. Highway No. 301; thence as and with the Eastern edge of said U.S. Highway No. 301, 126 feet to the point of Beginning; and being a portion of Tract No. SEVEN (7) as shown and designated on a map of the division of the estate lands of Annie Inman prepared by W.R. McDuffie, Surveyor, dated April 1947, recorded in Book of Official Maps no. SEVEN (7), at Page 37, Robeson County Registry, reference to said map and the registration thereof being hereby made for further description and location of said lot or parcel of land.

**\*Schedule A\***

And being a portion of the lands described in and conveyed by deed from W.A. Inman, Et Al. to J.F. Inman and wife, Ethyl McL. Inman, dated July 29, 1947, registered in Book of Deeds 10-K, at Page 64, Robeson County Registry; and being the same lot conveyed by J. F. Inman and wife, Ethyl McL. Inman, to Claude T. West and wife, Maude West, by deed dated June 22, 1948, registered in Book of Deeds 10-M, at Page 447, Robeson County Registry.

And being the same lands conveyed by Mrs. A.A. Moore, Trustee, to Wilber Owens, dated March 3, 1950, registered in Book of Deeds 10-W at Page 155, Robeson County Registry; and being the same lands conveyed by Wilber T. Owens and wife, Mary W. Owens, to R.H. Nye by deed dated June 28, 1950, registered in Book of Deeds 10-U, at Page 277, Robeson County Registry.

This being the identical property conveyed to Dewey Jackson and wife, Elizabeth C. Jackson by deed dated April 5, 1956, from R.H. Nye and recorded in Book 12-F, at Page 17, Robeson County Registry.

For protection of public health and the environment, the following land use restrictions required by N.C.G.S. Section 143B-279.9(b) shall apply to all of the above-described real property. These restrictions shall continue in effect as long as residual petroleum remains on the site in excess of unrestricted use standards and cannot be amended or cancelled unless and until the \_\_\_\_\_ County Register of Deed receives and records the written concurrence of the Secretary (or his/her delegate) of DENR (or its successor in function).

**PERPETUAL LAND USE RESTRICTIONS**

*Groundwater: Groundwater from the site is prohibited from use as a water supply. Water supply wells of any kind shall not be installed or operated on the site.*

**ENFORCEMENT**

The above land use restriction(s) shall be enforced by any owner, operator, or other party responsible for the Site. The above land use restriction(s) may also be enforced by DENR through any of the remedies provided by law or by means of a civil action, and may also be enforced by any unit of local government having jurisdiction over any part of the Site. Any attempt to cancel this Notice without the approval of DENR (or its successor in function) shall be subject to enforcement by DENR to the full extent of the law. Failure by any party required or authorized to enforce any of the above restriction(s) shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

IN WITNESS WHEREOF, Walker Trawick has caused this Notice to be executed pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11, this 13 day of August, 2015.

By: Walker Trawick  
(name of responsible party if agent is signing)  
Walker Trawick  
(signature of responsible party, attorney or other agent if there is one)  
Owner  
(Title of agent for responsible party if there is one)

Signatory's name typed or printed: Walker Trawick

NORTH CAROLINA

Robeson COUNTY  
(Name of county in which acknowledgment was taken)

I certify that the following person personally appeared before me this day, acknowledging to me that he or she signed the foregoing document: Walker Trawick.

Date: 8-13-2015

(Official Seal)

Faye P. Harrell  
(signature of Notary Public)  
Faye P. Harrell  
(printed or typed name of Notary Public)

Notary Public

My commission expires: 7-22-2020

Approved for the purposes of N.C.G.S. 143B-279.11

  
(signature of Regional Supervisor)

WAYNE RANDOLPH, Regional Supervisor  
(printed name of Regional Supervisor)

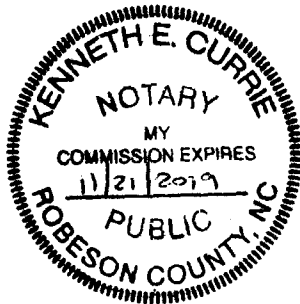
Fayetteville Regional Office  
UST Section  
Division of Waste Management  
Department of Environment and Natural Resources

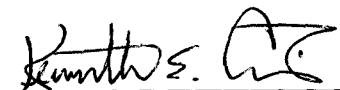
NORTH CAROLINA  
Cumberland COUNTY  
(Name of county in which acknowledgment was taken)

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she signed the foregoing document: Wayne Randolph (full printed name of Regional Supervisor)

Date: August 25, 2015

(Official Seal)





(signature of Notary Public)

Kenneth E. Currie  
(printed or typed name of Notary Public)

Notary Public

My commission expires: 11/21/2019

# LEGEND



TYPE II MONITORING WELL



TELESCOPING MONITORING WELL

196
4,210
2,670
13,300
812
84.4
267
2,280
533

BENZENE  
TOLUENE  
ETHYLBENZENE  
XYLENES  
NAPHTHALENE  
ISOPROPYLBENZENE  
n-PROPYLBENZENE  
1,2,4-TRIMETHYLBENZENE  
1,3,5-TRIMETHYLBENZENE

(NS)

NOT SAMPLED

CONCENTRATIONS REPORTED IN ug/L

<0.10

CONCENTRATION IS LESS THAN THE  
METHOD DETECTION LIMIT SPECIFIED  
IN THE LABORATORY REPORT

"J"

ESTIMATED CONCENTRATION

2.1
1.2
35.2
62.0
15.9
1.8
4.2
16.3
1.9

MW-7

MW-4 (INMAN)

196
4,210
2,670
13,300
812
84.4
267
2,280
533

DW-1

<0.10
<0.10
<0.10
0.37J
0.64
<0.10
<0.10
<0.10

MW-4

<0.10
<0.10
<0.10
0.21J
0.27J
<0.10
<0.10
0.12J
<0.10

MW-8 (NS)

<0.50
<0.50
32.4
210
72.4
17.4
90.8
669
153

MW-1 (INMAN)

MW-9 (NS)

MW-10 (NS)



5th STREET

CONC.

CANOPY

MW-5 (NS)

MW-1

SITE

KEROSENE AST

GRASS

MW-3 (NS)

INMAN PLUMBING & HEATING

WOODS

GRASS

0 15 30  
SCALE 1" = 30 FEET

## GROUND WATER QUALITY MAP (12/21/14)

WALKER'S CONVENIENCE STORE  
315 SOUTH 5th STREET  
ST. PAULS, ROBESON COUNTY, NC  
INCIDENT NO. 29449

Date: 1/28/15 Drawn by: LJM Figure: 4

RESOLVE ENVIRONMENTAL SERVICES, PLLC

"THIS MAP IS NOT A CERTIFIED SURVEY  
AND HAS NOT BEEN REVIEWED BY A LOCAL  
GOVERNMENT AGENCY FOR COMPLIANCE  
WITH ANY APPLICABLE LAND DEVELOPMENT  
REGULATIONS"



# 29449

2015007201

ROBESON CO, NC FEE \$26.00  
PRESENTED & RECORDED:  
09-02-2015 03:20:57 PM  
VICKI L LOCKLEAR  
REGISTER OF DEEDS  
BY: TOMASA MORALES PEAVY  
ASSISTANT

BK: D 2007  
PG: 727-730

RETURN: RESOLVE ENVIRONMENTAL  
410 E. FRANKLIN ST.  
MONROE, NC 28112

### NOTICE OF RESIDUAL PETROLEUM

Walker's Convenience Store, Robeson County, North Carolina  
(Site name)

The property that is the subject of this Notice (hereinafter referred to as the "Site") contains residual petroleum and is an Underground Storage Tank (UST) incident under North Carolina's Statutes and Regulations, which consist of N.C.G.S. 143-215.94 and regulations adopted thereunder. This Notice is part of a remedial action for the Site that has been approved by the Secretary (or his/her delegate) of the North Carolina Department of Environment and Natural Resources (or its successor in function), as authorized by N.C.G.S. Section 143B-279.9 and 143B-279.11. The North Carolina Department of Environment and Natural Resources shall hereinafter be referred to as "DENR".

#### NOTICE

Petroleum product was released and/or discharged at the Site. Petroleum constituents remain on the site, but are not a danger to public health and the environment, provided that the restrictions described herein, and any other measures required by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11, are strictly complied with. This "Notice of Residual Petroleum" is composed of a description of the property, the location of the residual petroleum and the land use restrictions on the Site. The Notice has been approved and notarized by DENR pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11 and has/shall be recorded at the Robeson Register of Deeds' office  
(name of county)

Book \_\_\_\_, Page \_\_\_\_.

Any map or plat required by DENR has been/shall be recorded at the \_\_\_\_\_ Register of Deeds' office Book \_\_\_\_, Page \_\_\_\_, and has been/shall be incorporated into the Notice by this reference.  
(name of county)

#### Source Property

Walker P. Trawick of St. Pauls, NC is the owner in fee  
(owner's name) (city & state of homeowner)  
simple of all or a portion of the Site, which is located in the County of Robeson, State of North Carolina, and is known and legally described as:

Book 807 Page 0186: Lying and being just South of the Town of Saint Pauls, on the East side of and adjacent to U.S. Highway No. 301, and on the North side of but not adjacent to Clark Street, and being a portion of the lands formerly belonging to Annie Inman, deceased, and being more particularly bounded and described as follows, to-wit: BEGINNING at an iron stake planted in the Eastern edge of U.S. Highway No. 301, said Beginning point being the Northwest corner of Tract No. 7 as shown and designated on the map hereinafter referred to, and running as the Northern boundary of Tract No. 7, South 78 degrees 32 minutes East 100 feet to a stake in said line; thence South 28 degrees 23 minutes West about 128 feet, more or less, to a stake planed in the dividing line between Tracts Nos. 6 and 7 as shown on the map hereinafter referred to; thence as the dividing line between Tracts Nos. 6 and 7, North 77 degrees 33 minutes West about 100 feet, more or less, to the Eastern edge of U.S. Highway No. 301; thence as and with the Eastern edge of said U.S. Highway No. 301, 126 feet to the point of Beginning; and being a portion of Tract No. SEVEN (7) as shown and designated on a map of the division of the estate lands of Annie Inman prepared by W.R. McDuffie, Surveyor, dated April 1947, recorded in Book of Official Maps no. SEVEN (7), at Page 37, Robeson County Registry, reference to said map and the registration thereof being hereby made for further description and location of said lot or parcel of land.

*\*Schedule A\**

And being a portion of the lands described in and conveyed by deed from W.A. Inman, Et Al. to J.F. Inman and wife, Ethyl McL. Inman, dated July 29, 1947, registered in Book of Deeds 10-K, at Page 64, Robeson County Registry; and being the same lot conveyed by J. F. Inman and wife, Ethyl McL. Inman, to Claude T. West and wife, Maude West, by deed dated June 22, 1948, registered in Book of Deeds 10-M, at Page 447, Robeson County Registry.

And being the same lands conveyed by Mrs. A.A. Moore, Trustee, to Wilber Owens, dated March 3, 1950, registered in Book of Deeds 10-W at Page 155, Robeson County Registry; and being the same lands conveyed by Wilber T. Owens and wife, Mary W. Owens, to R.H. Nye by deed dated June 28, 1950, registered in Book of Deeds 10-U, at Page 277, Robeson County Registry.

This being the identical property conveyed to Dewey Jackson and wife, Elizabeth C. Jackson by deed dated April 5, 1956, from R.H. Nye and recorded in Book 12-F, at Page 17, Robeson County Registry.

For protection of public health and the environment, the following land use restrictions required by N.C.G.S. Section 143B-279.9(b) shall apply to all of the above-described real property. These restrictions shall continue in effect as long as residual petroleum remains on the site in excess of unrestricted use standards and cannot be amended or cancelled unless and until the \_\_\_\_\_ County Register of Deed receives and records the written concurrence of the Secretary (or his/her delegate) of DENR (or its successor in function).

**PERPETUAL LAND USE RESTRICTIONS**

*Groundwater: Groundwater from the site is prohibited from use as a water supply. Water supply wells of any kind shall not be installed or operated on the site.*

**ENFORCEMENT**

The above land use restriction(s) shall be enforced by any owner, operator, or other party responsible for the Site. The above land use restriction(s) may also be enforced by DENR through any of the remedies provided by law or by means of a civil action, and may also be enforced by any unit of local government having jurisdiction over any part of the Site. Any attempt to cancel this Notice without the approval of DENR (or its successor in function) shall be subject to enforcement by DENR to the full extent of the law. Failure by any party required or authorized to enforce any of the above restriction(s) shall in no event be deemed a waiver of the right to do so thereafter as to the same violation or as to one occurring prior or subsequent thereto.

IN WITNESS WHEREOF, Walker Trawick has caused this Notice to be executed pursuant to N.C.G.S. Sections 143B-279.9 and 143B-279.11, this 13 day of August, 2015.

By: Walker Trawick  
(name of responsible party if agent is signing)  
Walker Trawick  
(signature of responsible party, attorney or other agent if there is one)  
Owner  
(Title of agent for responsible party if there is one)

Signatory's name typed or printed: Walker Trawick

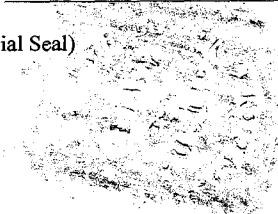
NORTH CAROLINA

Robeson COUNTY  
(Name of county in which acknowledgment was taken)

I certify that the following person personally appeared before me this day, acknowledging to me that he or she signed the foregoing document: Walker Trawick

Date: 8-13-2015

(Official Seal)



Faye P. Harrell  
(signature of Notary Public)  
Faye P. Harrell  
(printed or typed name of Notary Public)

Notary Public

My commission expires: 7-22-2020

Approved for the purposes of N.C.G.S. 143B-279.11

Wayne Randolph  
(signature of Regional Supervisor)

WAYNE RANDOLPH, Regional Supervisor  
(printed name of Regional Supervisor)

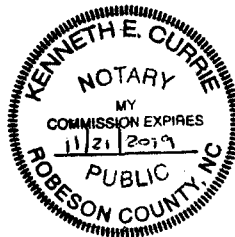
Fayetteville Regional Office  
UST Section  
Division of Waste Management  
Department of Environment and Natural Resources

NORTH CAROLINA  
Chimberland COUNTY  
(Name of county in which acknowledgment was taken)

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she signed the foregoing document: Wayne Randolph (full printed name of Regional Supervisor)

Date: August 25, 2015

(Official Seal)



Kenneth E. Currie  
(signature of Notary Public)

Kenneth E. Currie  
(printed or typed name of Notary Public)

Notary Public

My commission expires: 11/21/2019

# LEGEND



TYPE II MONITORING WELL



TELESCOPING MONITORING WELL

196
4,210
2,670
13,300
812
84.4
267
2,280
533

BENZENE  
TOLUENE  
ETHYLBENZENE  
XYLENES  
NAPHTHALENE  
ISOPROPYLBENZENE  
n-PROPYLBENZENE  
1,2,4-TRIMETHYLBENZENE  
1,3,5-TRIMETHYLBENZENE

(NS)

NOT SAMPLED

CONCENTRATIONS REPORTED IN ug/L

<0.10

CONCENTRATION IS LESS THAN THE  
METHOD DETECTION LIMIT SPECIFIED  
IN THE LABORATORY REPORT

"J"

ESTIMATED CONCENTRATION

2.1
1.2
35.2
62.0
13.9
1.8
4.2
16.3
1.9

MW-7

MW-4 (INMAN)

196
4,210
2,670
13,300
812
84.4
267
2,280
533

DW-1

<0.10
<0.10
<0.10
0.37J
0.64
<0.10
<0.10
<0.10

MW-4

<0.10
<0.10
<0.10
0.21J
0.27J
<0.10
<0.10
0.12J
<0.10

MW-8 (NS)

<0.50
<0.50
32.4
210
72.4
17.4
90.8
669
15.3

MW-1 (INMAN)

MW-9 (NS)

MW-10 (NS)



5th STREET

CONC.

CANOPY

MW-5

MW-5 (NS)

MW-1

<20
4,300
2,610
13,900
1,110
143
549
4,710
1,200

KEROSENE AST

GRASS

MW-3 (NS)

SITE

INMAN PLUMBING & HEATING

WOODS

GRASS

0 15 30  
SCALE 1" = 30 FEET

## GROUND WATER QUALITY MAP (12/21/14)

WALKER'S CONVENIENCE STORE  
315 SOUTH 5th STREET  
ST. PAULS, ROBESON COUNTY, NC  
INCIDENT NO. 29449

Date: 1/28/15 Drawn by: LBI Figure: 1

RESOLVE ENVIRONMENTAL SERVICES, PLLC

THIS MAP IS NOT A CERTIFIED SURVEY  
AND HAS NOT BEEN REVIEWED BY A LOCAL  
GOVERNMENT AGENCY FOR COMPLIANCE  
WITH ANY APPLICABLE LAND DEVELOPMENT  
REGULATIONS

## Certificate of Insurance

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Premium
STP-418230	05/17/2022	05/17/2023	\$6,004

**Named Insured and Mailing Address:**

JOEY'S PLACE, LLC  
315 S 5th St  
Saint Pauls NC 28384

**Name of Insurer:**

Crum & Forster Specialty Insurance Company or FMIC  
305 Madison Avenue  
Morristown, NJ 07960

### CERTIFICATE:

1. Crum & Forster Specialty Insurance Company, the 'Insurer', as identified above, hereby certifies that it has issued li insurance covering the following underground storage tank(s):

**Per Attached Scheduled Locations and Scheduled Storage Tank(s) Systems**

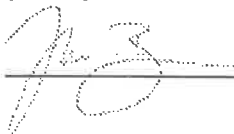
for taking corrective action and compensating third parties for bodily injury and property damage caused by accidental releases; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; arising from operating the underground storage tank(s) identified above.

The limits of liability are: \$121,800 Each Occurrence and: \$121,800 Annual Aggregate Policy Limit, exclusive of legal defense costs which are subject to a separate limit under the Policy. This coverage is provided under Policy Number: STP-418230. The effective date of said policy is: 05/17/2022.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
- Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which this certificate applies.
  - The Insurer is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third-party, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respects to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280.95-280.102.
  - Whenever requested by the North Carolina Department of Environmental Quality (NCDEQ), the insurer agrees to furnish to NCDEQ a signed duplicate original of the policy and all endorsements.
  - Cancellation or any other termination of the insurance by the Insurer, except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-payment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.
  - The insurance covers claims otherwise covered by the policy that are reported to the Insurer within six months of the effective date of cancellation or non-renewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.

Whenever requested by the North Carolina Department of Environment and Natural Resources (NCDENR), the insurer agrees to furnish to NCDENR a signed duplicate original of the Policy and all endorsements.

I hereby certify that the Insurer is licensed, registered or otherwise authorized to provide insurance in North Carolina.



Josh Bowen, Senior Vice President  
Authorized representative of  
Crum & Forster Specialty Insurance Company  
305 Madison Avenue  
Morristown, NJ 07960

NC DEQ  
DWM/UST SECTION  
JUL 15 2022  
**RECEIVED**

**Crum & Forster Storage Tank Policy**  
**Schedule of Locations and Storage Tanks**

Effective as of 05/17/2022

Attached to and forming part of Policy STP-418230

Storage Tank System(s)							
Tank#	Insured Site	Type UST/AST	Install Date	Capacity (Gallons)	Contents	Deductible	Retro Date
1	Primary Location 315 S 5th St Saint Pauls, NC 28384	UST	1990	8,022	Gasoline	\$0	5/17/2022
2	Primary Location 315 S 5th St Saint Pauls, NC 28384	UST	1990	6,027	Gasoline	\$0	5/17/2022
3	Primary Location 315 S 5th St Saint Pauls, NC 28384	UST	1990	6,027	Diesel	\$0	5/17/2022





**Geological Resources, Inc.**

March 9, 2021

Mr. James Brown  
NCDEQ-UST Section  
Fayetteville Regional Office  
Systel Building  
225 Green Street, Suite 714  
Fayetteville, NC 28301-5043

Re: Site Check Report  
Woods Quick Stop  
315 South 5<sup>th</sup> Street  
Saint Pauls, Robeson County  
North Carolina  
Facility ID Number: 00-0-0000026873  
Incident Number: N/A  
GRI Project Number: 5599

Dear Mr. Brown,

Please find enclosed the referenced report for the above mentioned site.  
If you have any questions, please contact Ethan Rogerson at 704-845-4010.

Sincerely,  
**Geological Resources, Inc.**

Leslie Maxtone-Graham  
Administrative Assistant

Enclosure

Cc: KCM Services, Inc., file



**Geological Resources, Inc.**

Site Check Report  
Woods Quick Stop  
315 South 5th Street  
Saint Pauls, Robeson County  
North Carolina  
Facility ID Number: 00-0-0000026873  
Incident Number: N/A  
GRI Project Number: 5599



Prepared for:

KCM Services, Inc.  
PO Box 412,  
Saint Pauls, NC 28384

March 9, 2021

Ethan Rogerson, GIT  
Project Manager

**3502 Hayes Road • Monroe, North Carolina 28110**  
**113 West Firetower Road, Suite G • Winterville, North Carolina 28590**  
**Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012**

## EXECUTIVE SUMMARY

The Woods Quick Stop site is located at 315 South 5th Street in Saint Pauls, Robeson County, North Carolina. The property operates as a petroleum retail facility and convenience store. The site is covered by concrete asphalt and grass. There are one 8,000-gallon gasoline, one 6,000-gallon gasoline and one 6,000-gallon diesel USTs currently in use at the site. One diesel and two gasoline dispensers are in use at the site.

A former UST system reportedly consisting of one 4,500-gallon gasoline and two 4,000-gallon gasoline USTs was removed from the site in August 1990. A release was discovered following the August 1990 UST closure activities and Incident Number 29449 was issued. On September 25, 2015, the UST section of NCDEQ determined that no further action is warranted for Incident Number 29449.

On February 17, 2021, two soil samples (SS-1-2' and SS-2-2') were collected beneath the 6,000-gallon diesel and 6,000-gallon regular spill buckets, respectfully. A concentration of TPH-DRO was reported in soil sample SS-1-2', but was less than the RAL. No concentrations of TPH-GRO were reported in the soil samples collected from SS-1-2' or SS-2-2'.

Based on this information, a soil quality violation does not exist. No further assessment is warranted at this site.

## SITE INFORMATION

### 1. Site Identification

- Woods Quick Stop (Facility ID 00-0-0000026873)
- Incident Number N/A – Risk Ranking N/A
- Location of Source Area: 315 South 5th Street  
Saint Pauls, NC 27533  
Robeson County  
34.804473°N, 78.976392°W (Topographical Map)

### 2. Information about Contacts Associated with the Leaking UST System

#### UST Owner

KCM Services Inc. (Table 1)  
PO Box 412  
Saint Pauls, NC 28384  
[swoods@mksgroup.com](mailto:swoods@mksgroup.com)  
910-736-0649

#### Property Owner

KCM Services Inc.  
PO Box 412  
Saint Pauls, NC 28384  
[swoods@mksgroup.com](mailto:swoods@mksgroup.com)  
910-736-0649

#### Consultant/Contractor

Geological Resources, Inc.  
3502 Hayes Road  
Monroe, NC 28110  
[egr@geologicalresourcesinc.com](mailto:egr@geologicalresourcesinc.com)  
704-845-4010

#### UST Operator

KCM Services Inc.  
PO Box 412  
Saint Pauls, NC 28384  
[swoods@mksgroup.com](mailto:swoods@mksgroup.com)  
910-736-0649

#### Property Occupant

Woods Quick Stop  
315 South 5th Street  
Saint Pauls, NC 28384  
[swoods@mksgroup.com](mailto:swoods@mksgroup.com)  
910-736-0649

#### Analytical Laboratory

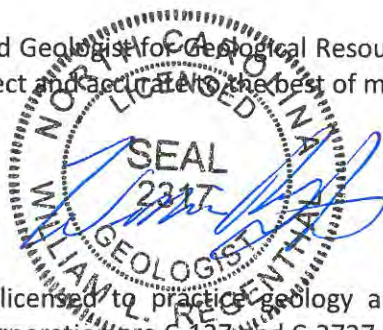
SGS North America, Inc.  
4405 Vineland Road  
Orlando, FL 32811  
State Certification No. 573  
407-425-6700

### 3. Information about Release

- A previous release has been documented at the site as incident 29449.
- There is no suspected release from the current UST system.
- One 8,000-gallon gasoline, one 6,000-gallon gasoline and one 6,000-gallon diesel USTs currently in use at the site.

#### Certification:

I, William Regenthal, a Licensed Geologist for Geological Resources, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Geological Resources, Inc. is licensed to practice geology and engineering in North Carolina. The certification numbers of the corporation are C-127 and C-2727, respectively.

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<b>C.</b>	<b>SITE INVESTIGATION .....</b>	<b>2</b>
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## FIGURES

Figure 1:	Site Location Map
Figure 2:	Site Map
Figure 3:	Soil Quality Map

## TABLES

Table 1:	UST Owner/Operator Information
Table 2:	UST System Information
Table 3:	Summary of Soil Sample Analytical Results

## APPENDICES

Appendix A:	State Correspondence
Appendix B:	24-Hour Release and UST Leak Reporting Form (UST-61)
Appendix C:	Certificate of Storage Tank System Testing
Appendix D:	Laboratory Report – Soil Samples

## A. SITE HISTORY AND CHARACTERIZATION

### 1. UST Owner and Operator Information:

In accordance with the Site Check Report guidelines, the underground storage tank (UST) owner and operator information has been summarized in the attached **Table 1**.

### 2. UST System Information:

In accordance with the Site Check Report guidelines, the UST system information has been summarized in the attached **Table 2**. There are one 8,000-gallon gasoline, one 6,000-gallon gasoline and one 6,000-gallon diesel USTs currently in use at the site. One diesel and two gasoline dispensers are in use at the site.

A former UST system reportedly consisting of one 4,500-gallon gasoline and two 4,000-gallon gasoline USTs was removed from the site in August 1990. A release was discovered following the August 1990 UST closure activities and Incident Number 29449 was issued. On September 25, 2015, the UST section of NCDEQ determined that no further action is warranted for Incident Number 29449.

A copy of the NCDEQ Registered Tank Report is shown below:

NCDEQ Registered Tank Report									
Facility Id	00-0-0000026873				Tank Owner	KCM SERVICES, INCORPORATED			
Facility Name	WOODS QUICK STOP				Address	PO BOX 412			
Address	315 SOUTH 5TH STREET				City	SAINT PAULS			
City	SAINT PAULS		State	NC		State	NC	Zip	28384-0412
County	Robeson		Zip	28384					
Longitude	-78.97641		Latitude	34.80460					
Tank Information									
Tank Id	Product Name	Capacity	Installation Date	Perm Close Date	Tank Construction	Piping Construction	OverFill Protection	Spill Protection	Tank Status
1	Gasoline, Gas Mix	4500	9/29/1957	8/1/1990	Unknown	Unknown	Unknown	Unknown	Removed
2	Gasoline, Gas Mix	4000	9/29/1957	8/1/1990	Single Wall Steel	Unknown	Unknown	Unknown	Removed
3	Gasoline, Gas Mix	4000	9/29/1957	8/1/1990	Unknown	Unknown	Unknown	Unknown	Removed
A1	Gasoline, Gas Mix	8000	8/31/1990		Double Wall Steel	Single Wall FRP	Auto Shutoff Device	Catchment Basin	Current
A2	Gasoline, Gas Mix	6000	8/31/1990		Double Wall Steel	Single Wall FRP	Auto Shutoff Device	Catchment Basin	Current
A3	Gasoline, Gas Mix	6000	8/31/1990		Double Wall Steel	Single Wall FRP	Auto Shutoff Device	Catchment Basin	Current

### 3. Non-UST Information:

Currently, there is a kerosene aboveground storage tank (AST) in use at the site.



#### **4. Comprehensive Description of the Release:**

On September 3, 2020, annual compliance testing was completed. The diesel and premium spill buckets failed visual and hydrostatic testing. A Notice of Violation directing a site check was issued by NCDEQ on September 9, 2020. A copy of NCDEQ state correspondence is included as **Appendix A**.

On February 17, 2021, two soil samples (SS-1-2' and SS-2-2') were collected beneath the 6,000-gallon diesel and 6,000-gallon regular spill buckets, respectfully, as repairs were being made. A concentration of TPH-DRO that did not exceed the Regulatory Action Level (RAL) was reported in SS-1-2'. No concentrations of TPH-GRO were reported in the soil samples collected during the February 2021 Site Check activities. A UST-61 Form has been submitted and is included as **Appendix B**.

#### **5. Description of the Site Characteristics:**

The Woods Quick Stop site is located at 315 South 5th Street in Saint Pauls, Robeson County, North Carolina. (**Figure 1**). The property operates as a petroleum retail facility and convenience store. The site is covered by concrete, asphalt and grass. There are one 8,000-gallon gasoline, one 6,000-gallon gasoline and one 6,000-gallon diesel USTs currently in use at the site. The surrounding properties are commercial and residential. A Site Map has been included as **Figure 2**.

### **B. SITE CHECK PROCEDURES**

#### **1. Results of Tank and Line Tightness Testing:**

The spill-bucket was repaired and passed tightness testing on February 8, 2021. A copy of the testing results is provided as **Appendix C**.

#### **2. Summary of Site Check Procedure:**

On February 17, 2021, GRI performed a site check which included the collection of two soil samples (SS-1-2' and SS-2-2') beneath the spill buckets associated with the 6,000-gallon diesel and 6,000-gallon gasoline USTs, respectfully. The soil samples were beneath the spill buckets at depths of approximately 2 feet below ground surface (bgs).

#### **3. Soil Excavation Activities:**

No soil excavation activities were conducted.

### **C. SITE INVESTIGATION**

#### **1. Field Screening:**

Soil samples were not screened with a photo ionization detector (PID) for volatile organic compounds (VOCs).

#### **2. Soil Sampling Information:**

On February 17, 2021, GRI performed a site check. Soil sample SS-1-2' was collected beneath the diesel

spill bucket and was submitted for laboratory analysis of diesel-range total petroleum hydrocarbons (TPH-DRO) by EPA Method 8015C and gasoline-range TPH (TPH-GRO) by EPA Method 8015D. Soil sample SS-2-2' was collected beneath the premium spill bucket and submitted for laboratory analysis of TPH-GRO. A concentration of TPH-DRO that did not exceed the RAL was reported in the soil sample collected from SS-1-2'. No concentrations of TPH-GRO were reported in the soil samples collected from SS-1-2' or SS-2-2'. No free product was observed at the site. A soil quality map is presented as **Figure 3**. A summary of soil sample analytical results is presented in **Table 3**. The laboratory report is provided as **Appendix D**. A summary of the soil sampling data from the February 2021 Site Check activities is shown below:

Sample ID	Sample Depth (ft.-BGS)	Gasoline-Range TPH	Diesel-Range DRO
RAL (mg/kg)		50	100
SS-1-2'	2	<1.9	21.5
SS-2-2'	2	<2.6	NR

### 3. Ground Water and Surface Water Sampling Information:

A ground water sample was not collected during the February 17, 2021 site check.

### 4. Quality-Control Measures:

Clean, disposable nitrile gloves were used for the collection of the soil sample. The samples were collected in laboratory supplied containers and shipped to the laboratory in a cooler following proper chain-of-custody procedures.

## D. SUMMARY AND CONCLUSIONS

- The site is a petroleum retail facility and convenience store and surrounding properties are commercial and residential.
- A Site Check was conducted on February 17, 2021.
- Two soil samples were collected beneath the diesel and premium spill buckets.
- A concentration of TPH-DRO that did not exceed the RAL was reported in the soil sample collected from SS-1-2'. No concentrations of TPH-GRO were reported in the soil samples collected from SS-1-2' or SS-2-2'.
- Based on this information, a soil quality violation does not exist. No further assessment is warranted for this site.

## E. LIMITATIONS

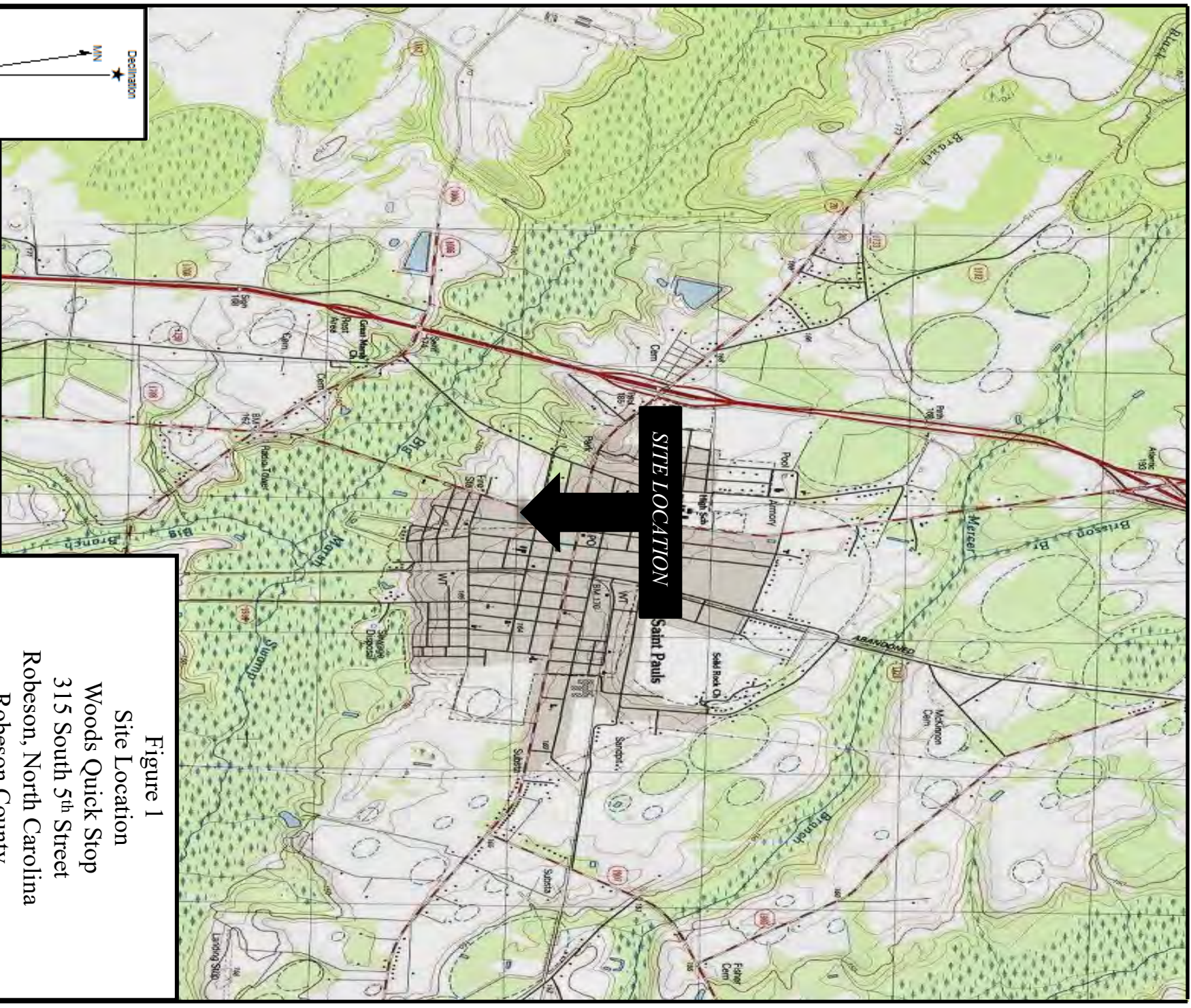
This report has been prepared for the exclusive use of KCM Services, Inc. for the specific application to the referenced site in Robeson County, North Carolina. The assessment was conducted based on the scope of work and level of effort specified by NCDEQ and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of North Carolina, available information, and our professional

judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

## FIGURES








**Figure 1**  
**Site Location**  
**Woods Quick Stop**  
**315 South 5<sup>th</sup> Street**  
**Robeson, North Carolina**  
**Robeson County**  
**Incident No. N/A**  
**GRI Project No. 5599**



LEGEND

-  FUEL DISPENSER  
 TREE LINE  
 UNDERGROUND STORAGE TANK

- Note:  
1. This Site Map is based on data from the Robeson County GIS of NC.  
2. This site was not professionally surveyed; locations of utilities, tank components and other site features are approximate.



Geological Resources, Inc.

0 10 20 40  
1 inch = 20 ft

SITE MAP


Woods Quick Stop  
Incident No. N/A  
GRI Project No. 5599


315 South 5th Street  
Saint Pauls, North Carolina  
Robeson County


Date: 03/05/2021 Drawn by: DTH Figure: 2




LEGEND

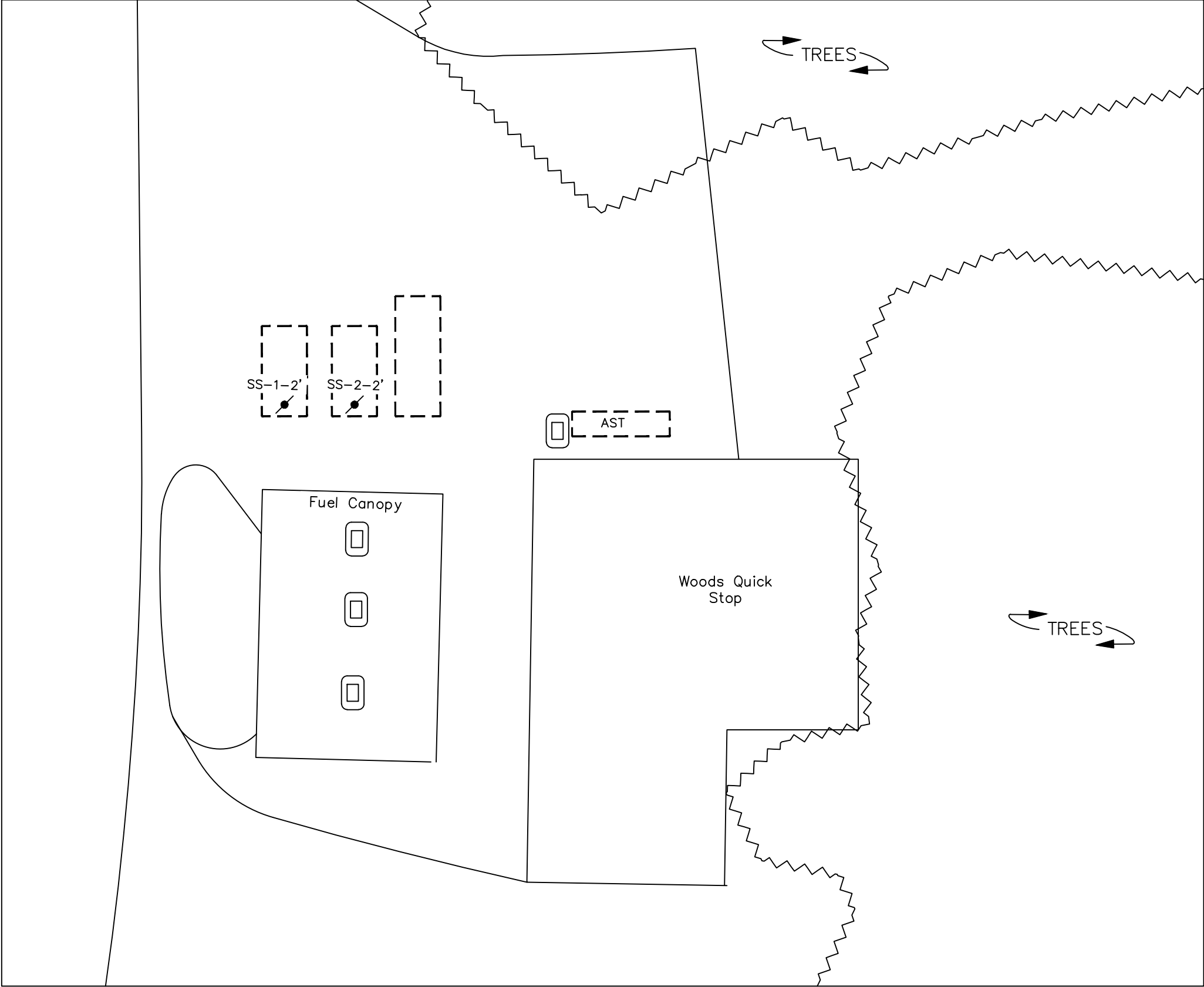
 FUEL DISPENSER

 TREE LINE

 UNDERGROUND STORAGE TANK

 SOIL SAMPLE LOCATION

Sample ID	Date Collected (mm/dd/yy)	Sample Depth (ft-BGS)	Gasoline-Range TPH	Diesel-Range TPH
RAL (mg/kg)			50	100
SS-1-2'	02/17/21	2	<1.9	21.5
SS-2-2'	02/17/21	2	<2.6	NR



## TABLES

**TABLE 1**  
**UST OWNER/OPERATOR INFORMATION**  
**WOODS QUICK STOP (INCIDENT N/A)**

<b>UST ID Number</b>	A1, A2, A3	<b>Facility ID Number</b>	00-0-0000026873
<b>Name of Owner or Operator</b>		<b>Dates of Ownership / Operation</b>	<b>Owner or Operator?</b>
KCM Services Inc.		01/19/2016 - Current	Owner
<b>Address</b>			<b>Telephone Number</b>
PO Box 412, Saint Pauls, NC 28384			910-736-0649

<b>UST ID Number</b>	A1, A2, A3	<b>Facility ID Number</b>	00-0-0000026873
<b>Name of Owner or Operator</b>		<b>Dates of Ownership / Operation</b>	<b>Owner or Operator?</b>
Walker P. Trawick		08/31/1990 - 01/19/2016	Owner
<b>Address</b>			<b>Telephone Number</b>
Unknown			Unknown

<b>UST ID Number</b>	1, 2, 3	<b>Facility ID Number</b>	00-0-0000026873
<b>Name of Owner or Operator</b>		<b>Dates of Ownership / Operation</b>	<b>Owner or Operator?</b>
Unknown		09/29/1957 - 08/01/1990	Owner
<b>Address</b>			<b>Telephone Number</b>
Unknown			Unknown

**TABLE 2**  
**UST SYSTEM INFORMATION**  
**WOODS QUICK STOP (INCIDENT NO. N/A)**

Date: 03/03/2021

Facility ID #: 00-0-0000026873

UST ID No.	Current or Most Recent Contents	Capacity (gallons)	Date Installed	Construction Details	Tank Dimensions	Description of Associated Product Piping and Pumps	Status of UST	Was Release Associated with UST System?
								(Yes / No)
1	Gasoline	4,500	9/29/1957	Unknown	Unknown	Unknown	Removed	Unknown
2	Gasoline	4,000	9/29/1957	Unknown	Unknown	Unknown	Removed	Unknown
3	Gasoline	4,000	9/29/1957	Unknown	Unknown	Unknown	Removed	Unknown
A1	Gasoline	8,000	8/31/1990	Double Wall Steel	8' x 16'	Single Wall FRP	Current	Yes
A2	Gasoline	6,000	8/31/1990	Double Wall Steel	8' x 16'	Single Wall FRP	Current	Yes
A3	Diesel	6,000	8/31/1990	Double Wall Steel	8' x 21' 4"	Single Wall FRP	Current	Yes

**TABLE 3**  
**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS**  
**WOODS QUICK STOP (INCIDENT NO. N/A)**

Date: 03/03/2021

Facility ID: 00-0-0000026873

Analytical Method →			5030/ 8015D	
Sample ID	Date Collected (mm/dd/yy)	Sample Depth (ft-BGS)	Gasoline-Range TPH	Diesel-Range TPH
<b>RAL (mg/kg)</b>			<b>50</b>	<b>100</b>
SS-1-2'	02/17/21	2	<1.9	21.5
SS-2-2'	02/17/21	2	<2.6	NR

Notes:

- Results reported in mg/kg (milligrams per kilograms)
- ft-BGS: feet below ground surface.
- RAL: Regulatory Action Level.
- < : Less than the method detection limit specified in the laboratory report
- Concentrations in bold face type indicate the reported concentrations exceeded the RALs.
- NR: Not Requested.

## **APPENDICES**



**Appendix A**  
State Correspondence

ROY COOPER

Governor

MICHAEL S. REGAN

Secretary

MICHAEL SCOTT

Director



NORTH CAROLINA  
*Environmental Quality*

September 09, 2020

**CERTIFIED MAIL 70162140000088787917**

**RETURN RECEIPT REQUESTED**

Samantha Woods, Registered Agent  
KCM Services, Incorporated  
303 S. 5th St.  
Saint Pauls, NC 28384

Re: NOTICE OF VIOLATION OF 15A NCAC 2N .0405(RCD1), .0406(MT5, MT6), .0407(MT8, RCD6),  
.0501(MT9)  
Woods Quick Stop  
315 South 5th Street, Saint Pauls, NC 28384  
Robeson County  
Facility ID#: 00-0-0000026873

Dear Samantha Woods:

On September 03, 2020, I conducted a compliance inspection at the above-referenced facility. I observed that underground storage tanks (USTs) at Woods Quick Stop are not in compliance with North Carolina UST regulations (North Carolina Administrative Code [NCAC] 2N "Criteria and Standards Applicable to Underground Storage Tanks). According to those rules (15A NCAC 2N .0203) KCM Services, Incorporated is identified as the owner and/or operator of UST(s) at Woods Quick Stop.

The following violations of the state rules (15A NCAC 2N) were observed on September 03, 2020 at Woods Quick Stop. Following each violation are the actions required to correct the violations:

**Violation 1:** 15A NCAC 2N .0405 RCD1; Failure to notify or provide the Division of Waste Management UST Section with records of compliance with leak detection, periodic inspections, testing and/or upgrading requirements as required by federal regulation 40 CFR 280.34 (as incorporated by 15A NCAC 2N .0405).

**Corrective Action(s):**

The Division of Waste Management UST Section has noted the following deficiencies with your sites required notifications or record-keeping:

- 1) Within 14 days of receipt of this notice, please submit documentation of the spill bucket integrity test (Form UST-23A), to the inspector at the address provided.
- 2) Within 14 days of receipt of this notice, please submit documentation of the overfill operability check (Form UST-22A), to the inspector at the address provided.

Within 14 days of receipt, or other time frame mentioned above, of this notice, please complete and submit the form(s) checked above and/or provide copies of the records needed to complete the inspection to the inspector at the address provided. In addition you need to submit a copy of any forms listed above to the address located on the form(s). It is recommended that you also keep a copy for your records.

**Comment:** As of October 13, 2018 all spill buckets and overfill prevention devices must be tested every three years. Please have the spill buckets and overfill prevention devices tested and submit a copy of the UST-22A (enclosed) and UST-23A (enclosed) to the UST Section.

**Violation 2:** 15A NCAC 2N .0406 MT5; Failure to check the operability, proper operating condition, and proper



North Carolina Department of Environmental Quality | Division of Waste Management  
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646  
919.707.8171

calibration of overfill prevention equipment every three years, in accordance with the manufacturer's written guidelines and as required by federal regulation 40 CFR 280.35 (as incorporated by 15A NCAC 2N .0406).

**Corrective Action(s):**

1) Check overfill prevention equipment for operability, proper operating condition, and proper calibration in accordance with the manufacturer's written guidelines and PEI RP 1200 "Recommended Practice for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities". Document the results on the UST-22A form.

Within 30 days of receipt of this notice, please submit a copy of the results of the annual check and other supporting documentation of the completed work on form UST-22A, Overfill Prevention Equipment Operability Check, to the inspector at the address provided.

**Comment:** As of October 13, 2019, the overfill prevention devices must be tested every three years. Please have the overfill prevention devices at this facility tested. Please submit a copy of the UST-22A to the UST Section.

**Violation 3:** 15A NCAC 2N .0406 MT6; Failure to perform a tightness test of a spill bucket every 3 years as required by federal regulation 40 CFR 280.35 (as incorporated by 15A NCAC 2N .0406).

**Corrective Action(s):**

1) Conduct a tightness test of the spill bucket for the listed tank(s) in accordance with the manufacturer's written guidelines and PEI RP 1200 "Recommended Practice for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities". Document results on a UST-6D/23A, "Triennial UST Spill Bucket Integrity Testing", form.

Within 30 days of receipt of this notice, please submit the test results on form UST-23A, Triennial UST Spill Bucket Integrity Testing, to the inspector at the address provided.

**Comment:** As of October 13, 2019, the spill buckets must be tested every three years. Please have the spill buckets at this facility tested. Please submit a copy of the UST-23A to the UST Section.

**Violation 4:** 15A NCAC 2N .0407 MT8; Failure to perform periodic operation and maintenance walkthrough inspections as required by federal regulation 40 CFR 280.36 (as incorporated by 15A NCAC 2N .0407)

**Corrective Action(s):**

Periodic operation and maintenance walkthrough inspections must be conducted for the following:

- 1) Conduct a monthly spill bucket inspection in accordance with PEI RP 900, "Recommended Practices for the Inspection and Maintenance of UST Systems" and document the results on form UST-27, "Monthly Walkthrough Inspections".
- 2) Inspect the sump, whether or not they have containment, at the tank(s) and/or dispenser(s) for the presence of water or a regulated substance in accordance with PEI RP 900, "Recommended Practices for the Inspection and Maintenance of UST Systems" and document the condition on an annual sump inspection log (UST-22C, "Annual Sump Visual Inspections").

Within 30 days of receipt of this notice, please submit the inspection results on one of the following applicable forms: UST-22B, Annual Leak Detection Equipment Operability Check; UST-22C, Annual Sump Visual Inspections; and/or UST-27, Monthly Walkthrough Inspections, to the inspector at the address provided.

**Comment:** As of October 13, 2018, a monthly walk-through must be conducted at each facility. Please conduct the monthly walk-through of your facility using the UST-27 (Monthly Walkthrough Inspections), UST-22B (Annual Leak Detection Equipment Operability Check) and UST-22C (Annual Sump Visual Inspections). Please complete the forms and submit a copy of the forms to the UST Section.

**Violation 5:** 15A NCAC 2N .0407 RCD6; Failure to provide records demonstrating operation and maintenance walkthrough inspections have been completed as required by federal regulation 40 CFR 280.36 (as incorporated by 15A NCAC 2N .0407)

**Corrective Action(s):**

1) Provide records demonstrating that the operation and maintenance walkthrough inspections have been completed.

Within 14 days of receipt of this notice, please submit the operation and maintenance walkthrough inspection results on one of the following applicable forms: UST-22B, Annual Leak Detection Equipment Operability Check; UST-22C, Annual Containment Sump Visual Inspections; and/or UST-27, Monthly Walkthrough Inspections, to the inspector at the address provided.

**Comment:** As of October 13, 2018, a monthly walk-through must be conducted at each facility. Please conduct the monthly walk-through of your facility using the UST-27 (Monthly Walkthrough Inspections). Please complete the forms and submit a copy of the forms to the UST Section.

**Violation 6:** 15A NCAC 2N .0501 MT9; Failure to check the operability, proper operating condition, and proper calibration of leak detection monitoring equipment annually in accordance with the manufacturer's written guidelines and as required by federal regulation 40 CFR 280.40 (as incorporated by 15A NCAC 2N .0501).

**Corrective Action(s):**

1) Check the leak detection equipment for operability, proper operating condition, and proper calibration in accordance with the manufacturer's written guidelines and PEI RP 1200 "Recommended Practice for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities".

Within 30 days of receipt of this notice, please submit a copy of the results of the annual check and other supporting documentation (e.g. alarm reports, invoice, repair records) of the completed work on form UST-22B, Annual Leak Detection Equipment Operability Check, to the inspector at the address provided.

**Comment:** As of October 13, 2018, the leak detection monitoring equipment must be tested to ensure proper operation. Please have the leak detection equipment tested. Please submit a copy of the UST-22B to the UST Section.

**Notice of Deficiency:**

**Deficiency 1:** NCGS 143-215.94NN-SS OPTR4; Failure to maintain compliance with UST regulations which requires Primary Operator retraining as required by NCGS 143-215.94NN - 143.215.94SS.

**Corrective Action(s):**

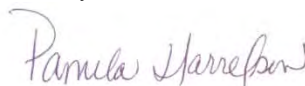
Please perform the following corrective action:

1) Within 30 days of receipt of this notice, the Primary Operator designated for this facility must go to the following website <http://tankschool.nc.gov> and take the NC DEQ on-line course for retraining. Retraining as a Primary Operator must be completed and a Primary Operator training certificate achieved within 90 days of receipt of this notice.

**Comment:** Due to the violations noted during this inspection, the Primary Operator must take the on-line Primary Operator Training Course. Please submit a copy of the certificate to the UST Section. (Due to the COVID-19 pandemic, in-person Tank School is not being offered at this time).

Corrective actions must be completed and reported to the inspector at the address provided **within 30 days** of receipt of this notice, unless otherwise noted in one of the corrective actions listed above. Assessment of civil penalties may be recommended for violations described in this NOV, as well as, operating permit revocation/denial unless the violations are corrected. If KCM Services, Incorporated believes that the inspection findings are in error, or if KCM Services, Incorporated has any questions pertaining to this NOV and/or corrective actions please have it contact me at (910) 867-6869 or [pamela.harrelson@ncdenr.gov](mailto:pamela.harrelson@ncdenr.gov).

Sincerely,



Pamela Harrelson, Environmental Specialist  
Division of Waste Management, NC DEQ

Enclosures

cc: Michael Phelps w/ Enclosures (electronic)  
Files (electronic)

# Triennial UST Spill Bucket Integrity Testing

## (Hydrostatic/Vacuum Test)



- If any periodic test fails, a suspected release report must be submitted on a UST-17A form, *UST Suspected Release 24 Hour Notice*. The suspected release must be investigated, in accordance with 15A NCAC 2N .0603, and defective equipment repaired or replaced in accordance with 15A NCAC 2N .0404/.0900. Results of the investigation must be submitted on a UST-17B form, *UST Suspected Release 7 Day Notice*.
- The primary containment and interstitial space of the spill bucket shall be tested in accordance with the manufacturer's written guidelines, PEI/RP100 "Recommended Practices for Installation of Underground Liquid Storage Systems" and/or PEI/RP1200 "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities."
- The primary and secondary walls are both considered to be tested at the same time if vacuum is used to test the interstice.

### UST FACILITY

Owner / Operator Name <b>KCM Services, Inc.</b>	Facility Name <b>Woods Quick Stop</b>	Facility ID <b>00-0-0000026873</b>
Facility Street Address <b>315 South 5th Street</b>	Facility City <b>Saint Pauls</b>	County <b>Robeson</b>

### TESTING CONTRACTOR INFORMATION

Company Name <b>PetroTest, Inc.</b>	Phone <b>(919)902-3794</b>	Email address <b>PetroTest@PetroTest.net</b>
--	-------------------------------	---

I certify, under penalty of law, that the testing data provided on this form documents the UST system equipment was checked in accordance with the manufacturer's guidelines and the applicable national industry standards listed in 15A NCAC 2N .407/.0501 and/or 15A NCAC 2N .0900.

George Allen Hall Print Name of person conducting inspection	<i>George Allen Hall</i> Signature of person conducting inspection	10/09/2020 Test Date
---	---	-------------------------

Identify Spill Bucket (By Tank Number, Stored Product, etc.)	Tank # 1	Tank # 2	Tank # 3	Tank #	Tank #
<b>Tank Size</b>	8,022	6,027	6,027		
<b>Product</b>	Unleaded	Premium	Diesel		

### Indicate units for all measurements

Bucket Manufacturer/Model	Pomeco 111-L	OPW 4000	OPW 4000		
Bucket Depth	12.5"	10.5"	9.5"		
Construction	<input checked="" type="checkbox"/> SW <input type="checkbox"/> DW	<input checked="" type="checkbox"/> SW <input type="checkbox"/> DW	<input checked="" type="checkbox"/> SW <input type="checkbox"/> DW	<input type="checkbox"/> SW <input type="checkbox"/> DW	<input type="checkbox"/> SW <input type="checkbox"/> DW
Bucket Installation Type	<input checked="" type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input checked="" type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input checked="" type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump
Test Type	<input checked="" type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input checked="" type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input checked="" type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum
Liquid and debris removed from spill bucket?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Visual inspection (No cracks, loose parts or separation of the bucket from the fill pipe.)	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Tank riser cap included in test?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Drain valve included in test?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Wait time between applying vacuum/water and start of test	15 Minutes	15 Minutes	15 Minutes		

### Primary Section Test Hydrostatic: Water level must be within 1.5 inches of top of bucket Vacuum: Apply vacuum of 30 inches WC

Begin	End Test Time	10:45am	11:45am	10:45am	11:45am	10:45am	11:45am		
Begin	End Reading	12.0"	12.0"	10.5"	1.5"	9.5"	2.0"		

### Secondary Interstice Test Vacuum: Apply vacuum of 15 inches WC

Begin	End Test Time								
Begin	End Reading								

Pass/fail criteria: Must pass visual inspection. Hydrostatic: Water level drop of less than 1/8 inch in 1 hour; Vacuum single-walled only: Maintain at least 26 inches water column for 1 minute; Vacuum double-walled: Maintain at least 12 inches water column for 1 minute

<b>Test Results</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
---------------------	--	--	--	---	---	---

**Comments -** (include information on repairs made prior to testing, and recommended follow-up for failed tests)

The premium and diesel spill buckets failed on visual and hydrostatic testing. The bucket gaskets are broken on the top and bottom and allowing water to pass.

**Date next Spill Bucket integrity test due** (required every 3 years) 10/09/2023



**Appendix B**  
24-Hour Release and UST Leak Reporting Form (UST-61)

<b>UST-61</b>	<b>24-Hour Release and UST Leak Reporting Form.</b>
For Releases in NC	This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release
(DWM USE ONLY) Incident # _____ Risk (H,I,L,U) _____ Received On _____ Received By _____ Reported by (circle one): Phone, Fax or Report Region _____	Suspected Contamination? (Y/N) <u>No</u> Confirmed GW Contamination? (Y/N) <u>No</u> Confirmed Soil Contamination? (Y/N) <u>Yes</u> Samples Taken? (Y/N) <u>Yes</u> Free Product? (Y/N) <u>No</u> If Yes, State Greatest Thickness _____
Facility ID Number <u>00-0-0000026873</u> Date Leak Discovered <u>2/26/2021</u> Comm/Non-Commercial? <u>Commercial</u> Reg/Non-regulated? <u>Regulated</u>	
<b>INCIDENT DESCRIPTION</b>	
Incident Name: <u>Woods Quick Stop</u>	
Address: <u>315 South 5th Street</u>	County: <u>Robeson</u>
City/Town: <u>Saint Puals</u>	Zip Code: <u>28384</u> Regional Office (circle one): <u>Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem</u>
Latitude (decimal degrees): <u>34.804573</u>	Longitude (decimal degrees): <u>-78.976501</u>
Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors) <u>A soil sample collected during the site check conducted on February 17, 2021 had a detectable concentration of DRO that did not exceed the Regulatory Action Levels.</u>	
Obtained by: <input type="checkbox"/> GPS <input type="checkbox"/> Topographic map <input type="checkbox"/> GIS Address matching <input checked="" type="checkbox"/> Other <u>Google Map</u> <input type="checkbox"/> Unknown Describe location: <u>Petroleum Retail Facility</u>	
<b>HOW RELEASE WAS DISCOVERED (Release Code)</b>	
(Check one)	
<input type="checkbox"/> Release Detection Equipment or Methods <input type="checkbox"/> During UST Closure/Removal <input type="checkbox"/> Property Transfer	<input type="checkbox"/> Visual/Odor <input type="checkbox"/> Water in Tank <input type="checkbox"/> Water Supply Well Contamination
<input type="checkbox"/> Groundwater Contamination <input type="checkbox"/> Surface Water Contamination <input checked="" type="checkbox"/> Other (specify) <u>Site Check</u>	
<b>SOURCE OF CONTAMINATION</b>	
<b>Source of Release</b> (Check primary source) <input type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem <input checked="" type="checkbox"/> Spill Bucket <input type="checkbox"/> Other <input type="checkbox"/> Unknown	<b>Cause of Release</b> (Check primary cause) <input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical/Mechanical Damage <input type="checkbox"/> Install Problem <input type="checkbox"/> Other <input checked="" type="checkbox"/> Unknown
<b>Type of Release</b> (Check one) <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/> Non-Petroleum <input type="checkbox"/> Both <b>Location</b> (Check one) <input checked="" type="checkbox"/> Facility <input type="checkbox"/> Residence <input type="checkbox"/> Other	
<b>Product Type Released</b> (Check primary product type released) <input checked="" type="checkbox"/> Gasoline/ Diesel/ Kerosene <input type="checkbox"/> Heating Oil <input type="checkbox"/> Other Petroleum Products <input type="checkbox"/> Metals <input type="checkbox"/> Other Inorganics <input type="checkbox"/> Other Organics <input type="checkbox"/> Diesel/Veg. Oil Blend <input type="checkbox"/> Vegetable Oil 100% <input type="checkbox"/> E10 – E20 <input type="checkbox"/> E21 – E84 <input type="checkbox"/> E85 – E99 <input type="checkbox"/> Ethanol 100% <input type="checkbox"/> E01 – E09	
Definitions presented on reverse	
<b>Ownership</b> 1. Municipal 2. Military 3. Unknown 4. <u>Private</u> 5. Federal 6. County 7. State	
<b>Operation Type</b> 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. <u>Commercial</u> 7. Mining	

## IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3.

Number of Water Supply Wells Affected \_\_\_\_\_

Water Supply Wells Contaminated: (Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)

- 1.
- 2.
- 3.

### UST SYSTEM OWNER

UST Owner/Company **KMC Services, Inc.**

Point of Contact  
**Marty Woods**

Address  
**P.O. Box 412**

City  
**Saint Pauls**

State  
**NC**

Zip Code  
**28384**

Telephone Number  
**910-736-0469**

### UST SYSTEM OPERATOR

UST Operator/Company  
**KMC Services, Inc.**

Address  
**P.O. Box 412**

City  
**Saint Pauls**

State  
**NC**

Zip Code  
**28384**

Telephone Number  
**910-736-0469**

### LANDOWNER AT LOCATION OF UST INCIDENT

Landowner  
**KMC Services, Inc.**

Address  
**P.O. Box 412**

City  
**Saint Pauls**

State  
**NC**

Zip Code  
**28384**

Telephone Number  
**910-736-0469**

### Draw Sketch of Area (showing two major road intersections) or Attach Map

See Attached Map

Person Reporting Incident	Ethan Rogerson, GIT	Company	Geological Resources Inc.	Telephone Number	704-845-4010
Title	Project Manager	Address	3502 Hayes Road, Monroe, NC 28110	Date	3/3/2021

UST Form 61 (02/19)

Page 2 of 2

#### Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

Unknown: identifies releases for which the source has not been determined

#### Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)

Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)

Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined

**Appendix C**  
Certificate of Storage Tank System Testing

# Triennial UST Spill Bucket Integrity Testing

## (Hydrostatic/Vacuum Test)

Lock Form



- If any periodic test fails, a suspected release report must be submitted on a UST-17A form, *UST Suspected Release 24 Hour Notice*. The suspected release must be investigated, in accordance with 15A NCAC 2N .0603, and defective equipment repaired or replaced in accordance with 15A NCAC 2N .0404/.0900. Results of the investigation must be submitted on a UST-17B form, *UST Suspected Release 7 Day Notice*.
- The primary containment and interstitial space of the spill bucket shall be tested in accordance with the manufacturer's written guidelines, PEI/RP100 "Recommended Practices for Installation of Underground Liquid Storage Systems" and/or PEI/RP1200 "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities."
- The primary and secondary walls are both considered to be tested at the same time if vacuum is used to test the interstice.

**UST FACILITY**

Owner / Operator Name <u>RCM Services Incorporated</u>	Facility Name <u>Woods Quick Stop</u>	Facility ID <u>00-0-000002623</u>
Facility Street Address <u>315 South 5th Street</u>	Facility City <u>Saint Pauls</u>	County <input checked="" type="checkbox"/>

**TESTING CONTRACTOR INFORMATION**

Company Name <u>Quality Maintenance Service</u>	Phone <u>910-925-0268</u>	Email address <u>Qmservice08@gmail.com</u>
I certify, under penalty of law, that the testing data provided on this form documents the UST system equipment was tested in accordance with the manufacturer's guidelines and the applicable national industry standards listed in 15A NCAC 2N .406 and/or 15A NCAC 2N .0900.		
Print Name of person conducting inspection <u>Derwood messersmith</u>	Signature of person conducting inspection <u>[Signature]</u>	Test Date <u>2-8-21</u>

Identify Spill Bucket (By Tank Number, Stored Product, etc.)	Tank # 2	Tank # 3	Tank #	Tank #	Tank #
Tank Size	6000	6000			
Product	Super	Diesel			
Indicate units for all measurements					
Bucket Manufacturer/Model	OPW	OPW			
Bucket Depth	9"	7"			
Construction	<input checked="" type="checkbox"/> SW <input type="checkbox"/> DW	<input checked="" type="checkbox"/> SW <input type="checkbox"/> DW	<input type="checkbox"/> SW <input type="checkbox"/> DW	<input type="checkbox"/> SW <input type="checkbox"/> DW	<input type="checkbox"/> SW <input type="checkbox"/> DW
Bucket Installation Type	<input type="checkbox"/> Direct Bury <input checked="" type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input checked="" type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump	<input type="checkbox"/> Direct Bury <input type="checkbox"/> Direct Bury w/Liner <input type="checkbox"/> Containment sump
Test Type	<input checked="" type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input checked="" type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum	<input type="checkbox"/> Hydrostatic <input type="checkbox"/> Vacuum
Liquid and debris removed from spill bucket?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Visual inspection (No cracks, loose parts or separation of the bucket from the fill pipe.)	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Tank riser cap included in test?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Drain valve included in test?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Wait time between applying vacuum/water and start of test	5 min	5 min			

Primary Section Test		Hydrostatic: Water level must be within 1.5 inches of top of bucket				Vacuum: Apply vacuum of 30 inches WC			
Begin	End Test Time	2:00	3:00	2:05	3:05				
Begin	End Reading	9"	9"	7"	7"				
Secondary Interstice Test		Vacuum: Apply vacuum of 15 inches WC							
Begin	End Test Time								
Begin	End Reading								
Pass/fail criteria: Must pass visual inspection. Hydrostatic: Water level drop of less than 1/8 inch in 1 hour; Vacuum single-walled only: Maintain at least 26 inches water column for 1 minute; Vacuum double-walled: Maintain at least 12 inches water column for 1 minute									
Test Results		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Comments - (include information on repairs made prior to testing, and recommended follow-up for failed tests)									

Date next Spill Bucket integrity test due (required every 3 years)

**Appendix D**  
Laboratory Report – Soil Samples



The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**GRI (Geological Resources Inc.)**

**Woods Quick Stop; 315 S 5th St, St Pauls, NC**

**5599**

**SGS Job Number: FA83268**

**Sampling Date: 02/17/21**

### Report to:

GRI  
3502 Hayes Rd  
Monroe, NC 28110  
egr@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com;  
jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com  
ATTN: Ethan Rogerson

**Total number of pages in report: 18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



**Norm Farmer**  
**Technical Director**

**Client Service contact: Muna Mohammed 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA83268

Woods Quick Stop; 315 S 5th St, St Pauls, NC  
Project No: 5599

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

FA83268-1	02/17/21	09:15	ER	02/18/21	SO	Soil	SS-1-2'
FA83268-2	02/17/21	09:20	ER	02/18/21	SO	Soil	SS-2-2'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

**Job Number:** FA83268  
**Account:** GRI (Geological Resources Inc.)  
**Project:** Woods Quick Stop; 315 S 5th St, St Pauls, NC  
**Collected:** 02/17/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

FA83268-1	SS-1-2'					
TPH (C10-C28) <sup>a</sup>		21.5	11	5.5	mg/kg	SW846 8015C

FA83268-2 SS-2-2'

No hits reported in this sample.

(a) Petroleum hydrocarbon pattern extends beyond C28.



Orlando, FL

Section 3



## Sample Results

## Report of Analysis

## Report of Analysis

<b>Client Sample ID:</b>	SS-1-2'	<b>Date Sampled:</b>	02/17/21
<b>Lab Sample ID:</b>	FA83268-1	<b>Date Received:</b>	02/18/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.7
<b>Method:</b>	SW846 8015C SW846 3546		
<b>Project:</b>	Woods Quick Stop; 315 S 5th St, St Pauls, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW27244.D	2	02/22/21 17:41	SJL	02/22/21 08:15	OP84223	GW1123
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) <sup>a</sup>	21.5	11	5.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	72%		56-122%		

(a) Petroleum hydrocarbon pattern extends beyond C28.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	SS-2-2'	<b>Date Sampled:</b>	02/17/21
<b>Lab Sample ID:</b>	FA83268-2	<b>Date Received:</b>	02/18/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	89.9
<b>Method:</b>	SW846 8015C		
<b>Project:</b>	Woods Quick Stop; 315 S 5th St, St Pauls, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S5408.D	1	02/23/21 16:41	BJ	n/a	n/a	G1S174
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.88 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		56-149%
98-08-8	aaa-Trifluorotoluene	108%		66-132%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

### Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody



## SGS Sample Receipt Summary

Job Number: FA83268

Client: GEOLOGICAL RESOURCES INC

Project: WOODS QUICK STOP

Date / Time Received: 2/18/2021 2:05:00 PM

Delivery Method: FED EX

Airbill #s: 100963785125

Therm ID: IR 1;

Therm CF: -1.8;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

### Cooler Information

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

### Trip Blank Information

Y or N N/A

- |                                |                          |                          |                                     |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | <u>W or S</u>            | <u>N/A</u>               |                                     |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### Sample Information

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### Misc. Information

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: NATHANS

Date: 2/18/2021 2:05:00 PM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA83268: Chain of Custody

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## GC Volatiles

5

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA83268  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
G1S174-MB	1S5403.D	1	02/23/21	BJ	n/a	n/a	G1S174

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	56-149%
98-08-8	aaa-Trifluorotoluene	105%	66-132%



Blank Spike Summary

Job Number: FA83268  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
G1S174-BS	1S5402.D	1	02/23/21	BJ	n/a	n/a	G1S174

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	20.7	104	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	97%	56-149%
98-08-8	aaa-Trifluorotoluene	96%	66-132%

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA83268  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA83238-1MS	1S5410.D	1	02/23/21	BJ	n/a	n/a	G1S174
FA83238-1MSD	1S5411.D	1	02/23/21	BJ	n/a	n/a	G1S174
FA83238-1	1S5404.D	1	02/23/21	BJ	n/a	n/a	G1S174

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-2

CAS No.	Compound	FA83238-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	26.4	28.6	109	26.4	28.4	108	1	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA83238-1	Limits
460-00-4	4-Bromofluorobenzene	109%	110%	109%	56-149%
98-08-8	aaa-Trifluorotoluene	105%	105%	108%	66-132%

\* = Outside of Control Limits.

## GC/LC Semi-volatiles

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA83268  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP84223-MB	WW27243.D	1	02/22/21	SJL	02/22/21	OP84223	GWW1123

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	67% 56-122%

## Blank Spike Summary

Page 1 of 1

**Job Number:** FA83268

**Account:** GRINCC GRI (Geological Resources Inc.)

**Project:** Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP84223-BS	WW27242.D	1	02/22/21	SJL	02/22/21	OP84223	GWW1123

The QC reported here applies to the following samples:

Method: SW846 8015C

FA83268-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	50	41.5	83	62-116

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	78%	56-122%

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA83268  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP84223-MS	WW27245.D	2	02/22/21	SJL	02/22/21	OP84223	GWW1123
OP84223-MSD	WW27246.D	2	02/22/21	SJL	02/22/21	OP84223	GWW1123
FA83268-1	WW27244.D	2	02/22/21	SJL	02/22/21	OP84223	GWW1123

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-1

CAS No.	Compound	FA83268-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	21.5	54.5	63.9	78	54.5	62.8	76	2	62-116/35

CAS No.	Surrogate Recoveries	MS	MSD	FA83268-1	Limits
84-15-1	o-Terphenyl	81%	83%	72%	56-122%

\* = Outside of Control Limits.



The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

GRI (Geological Resources Inc.)

Woods Quick Stop; 315 S 5th St, St Pauls, NC

5599

SGS Job Number: FA83268R

Sampling Date: 02/17/21

Report to:

GRI  
3502 Hayes Rd  
Monroe, NC 28110  
egr@geologicalresourcesinc.com; carriekennedy@geologicalresourcesinc.com;  
jjr@geologicalresourcesinc.com; nml@geologicalresourcesinc.com  
ATTN: Ethan Rogerson

Total number of pages in report: **13**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Norm Farmer  
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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Sample Summary

GRI (Geological Resources Inc.)

Job No: FA83268R

Woods Quick Stop; 315 S 5th St, St Pauls, NC  
Project No: 5599

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

FA83268-1R	02/17/21	09:15 ER	02/18/21	SO	Soil	SS-1-2'
------------	----------	----------	----------	----	------	---------

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

**Job Number:** FA83268R  
**Account:** GRI (Geological Resources Inc.)  
**Project:** Woods Quick Stop; 315 S 5th St, St Pauls, NC  
**Collected:** 02/17/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

FA83268-1R    SS-1-2'

No hits reported in this sample.

## Sample Results

## Report of Analysis

## Report of Analysis

Page 1 of 1

<b>Client Sample ID:</b>	SS-1-2'	<b>Date Sampled:</b>	02/17/21
<b>Lab Sample ID:</b>	FA83268-1R	<b>Date Received:</b>	02/18/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.7
<b>Method:</b>	SW846 8015C		
<b>Project:</b>	Woods Quick Stop; 315 S 5th St, St Pauls, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1U4128.D	1	02/26/21 14:00	BJ	n/a	n/a	G1U197
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.24 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	3.8	1.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		56-149%
98-08-8	aaa-Trifluorotoluene	98%		66-132%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound





## Misc. Forms

### Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody



# SGS Sample Receipt Summary

Job Number: FA83268

Client: GEOLOGICAL RESOURCES INC

Project: WOODS QUICK STOP

Date / Time Received: 2/18/2021 2:05:00 PM

Delivery Method: FED EX

Airbill #s: 100963785125

Therm ID: IR 1;

Therm CF: -1.8;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

## Cooler Information

Y or N

1. Custody Seals Present ☒ ☐
2. Custody Seals Intact ☒ ☐
3. Temp criteria achieved ☒ ☐
4. Cooler temp verification IR Gun
5. Cooler media Ice (Bag)

## Trip Blank Information

Y or N N/A

1. Trip Blank present / cooler ☐ ☐ ☒
  2. Trip Blank listed on COC ☐ ☐ ☒
- W or S N/A
3. Type Of TB Received ☐ ☐ ☒

## Sample Information

Y or N N/A

1. Sample labels present on bottles ☒ ☐
2. Samples preserved properly ☒ ☐
3. Sufficient volume/containers recvd for analysis: ☒ ☐
4. Condition of sample Intact
5. Sample recvd within HT ☒ ☐
6. Dates/Times/IDs on COC match Sample Label ☒ ☐
7. VOCs have headspace ☐ ☐ ☒
8. Bottles received for unspecified tests ☐ ☒ ☐
9. Compositing instructions clear ☐ ☐ ☒
10. Voa Soil Kits/Jars received past 48hrs? ☐ ☐ ☒
11. % Solids Jar received? ☐ ☐ ☒
12. Residual Chlorine Present? ☐ ☐ ☒

## Misc. Information

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_

Test Strip Lot #s: pH 0-3 \_\_\_\_\_ 230315 \_\_\_\_\_

pH 10-12 \_\_\_\_\_ 219813A \_\_\_\_\_

Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: NATHANS

Date: 2/18/2021 2:05:00 PM

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA83268R: Chain of Custody

Page 2 of 2



## GC Volatiles

5

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA83268R  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
G1U197-MB	1U4110.D	1	02/25/21	BJ	n/a	n/a	G1U197

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-1R

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	103% 56-149%
98-08-8	aaa-Trifluorotoluene	101% 66-132%

Blank Spike Summary

Job Number: FA83268R  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
G1U197-BS	1U4109.D	1	02/25/21	BJ	n/a	n/a	G1U197

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-1R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	21.8	109	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	56-149%
98-08-8	aaa-Trifluorotoluene	100%	66-132%

\* = Outside of Control Limits.



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA83268R  
Account: GRINCC GRI (Geological Resources Inc.)  
Project: Woods Quick Stop; 315 S 5th St, St Pauls, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA83270-1MS	1U4125.D	1	02/26/21	BJ	n/a	n/a	G1U197
FA83270-1MSD	1U4126.D	1	02/26/21	BJ	n/a	n/a	G1U197
FA83270-1 <sup>a</sup>	1U4111.D	1	02/25/21	BJ	n/a	n/a	G1U197

The QC reported here applies to the following samples: Method: SW846 8015C

FA83268-1R

CAS No.	Compound	FA83270-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	26.9	32.5	121	26.9	33.9	126	4	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA83270-1	Limits
460-00-4	4-Bromofluorobenzene	90%	94%	96%	56-149%
98-08-8	aaa-Trifluorotoluene	89%	94%	98%	66-132%

(a) Confirmation run.

\* = Outside of Control Limits.

**INMAN PLUMBING & HEATING COMPANY, INC.**

A COMPLETE LINE OF DEPENDABLE SUPPLIES

DEPENDABLE SERVICE

ESTABLISHED IN 1946

323 South Fifth Street St. Pauls, N.C. 28384

Phone (910) 865-4193

June 27, 2008

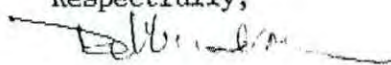
• NCDENR  
ATTN: Kenneth Currie  
• RE: 29444  
•

Mr. Currie;

In referende to your letter about the existing well at 324 South Fourth Street, St. Pauls, N.C. 28384. Mr. Inman has pulled the well out of the ground and it is no longer existing. You can check the well to see that it is compliant to your request.

If you have any questions please contact me at the above phone number. You will need to contact me since Mr. Robert Inman died in March and I am helping Mrs. Inman with his affairs.

Respectfully,

  
Debbie Inman



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

May 27, 2008

Mr. Robert Inman  
Inman Plumbing Company  
323 South 5<sup>th</sup> Street  
St. Pauls, NC 28384

Re: Notice of Regulatory Requirements  
15A NCAC 2L .0407  
Risk-based Assessment and Corrective Action for Petroleum  
Underground Storage Tanks

*Inman Plumbing Company  
323 South 5<sup>th</sup> Street  
St. Pauls, Robeson County  
Incident Number: 29444  
Risk Classification: Delayed awaiting further action  
Ranking: Delayed awaiting further action*

Dear Mr. Inman:

In accordance with North Carolina General Statute (NCGS) 143-215.94E(e4), the Department shall establish the degree of risk to human health and the environment posed by a discharge or release of petroleum from a commercial or noncommercial underground storage tank and shall determine a schedule for further assessment and cleanup that is based on the degree of risk to human health and the environment posed by the discharge or release and that gives priority to the assessment and cleanup of discharges and releases that pose the greatest risk.

At this time I am delaying the assignment of a risk classification and ranking score to your release while awaiting completion of the following request: Hire a NC certified well contractor to properly grout the unused irrigation well located at the Inman residence, 324 South 4<sup>th</sup> Street, St., Pauls, in accordance with 15A NCAC 2C .0113 **within 30 days** of receipt of this letter. It is a requirement that any well which acts as a source or channel of contamination shall be repaired or permanently abandoned within 30 days of receipt of notice from the department.

Completion of this task will lower the probable risk classification of this release from high risk to intermediate risk. If you have questions regarding the information contained in this letter, please contact me at the address below or at (910) 433-3313. If you have questions regarding trust fund eligibility or reimbursement, please contact the UST Section Trust Fund Branch at (919) 733-8486.

Sincerely,

Kenneth E. Currie  
Hydrogeologist II  
Fayetteville Regional Office

- c: Mr. William J. Smith, Director, Robeson County Health Department (electronic copy)  
Thomas Ammons, EHC, Inc. (electronic copy)

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 Woughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

**Guilford County Environmental Health**, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**



## North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

August 15, 2008

Attn: Mrs. Debbie Inman  
Inman Plumbing & Heating Company, Inc.  
323 South Fifth Street  
St. Pauls, NC 28384

Re: Notice of Regulatory Requirements  
15A NCAC 2L .0407(c)  
Risk-based Assessment and Corrective Action  
for Petroleum Underground Storage Tanks

*Inman Plumbing Company  
323 South Fifth Street  
St. Pauls, Robeson County  
Incident Number: 29444  
Risk Classification: Reduction to Intermediate  
Ranking: I-60-R*

Dear Mrs. Inman:

The Limited Site Assessment Report received by the UST Section, Fayetteville Regional Office on May 1, 2008 along with supplemental well abandonment verification has been reviewed. The risk posed by the discharge or release at the subject site is reclassified by the Department as intermediate, as stipulated under Title 15A NCAC 2L .0406. The land use at the site is classified as residential. Title 15A NCAC 2L .0407(a) requires you to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

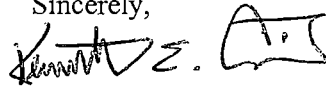
In accordance with North Carolina General Statute (NCGS) 143-215.94E(e4), the Department shall establish the degree of risk to human health and the environment posed by a discharge or release of petroleum from a commercial or noncommercial underground storage tank and shall determine a schedule for further assessment and cleanup that is based on the degree of risk to human health and the environment posed by the discharge or release and that gives priority to the assessment and cleanup of discharges and releases that pose the greatest risk. At this time your release does not meet the requirements for further assessment or corrective action, and, therefore, you are not directed to proceed.

It should be noted that NCGS 143-215.94E(e4) does not relieve you of your requirements for further assessment and cleanup. The Department will notify you, through a Notice of Regulatory Requirements, when additional assessment or corrective action is required.

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).

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 me at the address or telephone number listed below.

Sincerely,



Kenneth E. Currie  
Hydrogeologist II  
Fayetteville Regional Office

c: Mr. William J. Smith, Director, Robeson County Health Department *(by email attachment)*  
Mr. Thomas Ammons, EHC, Inc., Red Springs, NC *(by email attachment)*

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

**Mooreville (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



## North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

March 29, 2007

Mr. Robert Inman  
Inman Plumbing  
323 South 5<sup>th</sup> Street  
St. Pauls, NC 28384

Re: Acknowledgement of Report Receipt  
*Inman Plumbing*  
*323 South 5<sup>th</sup> Street*  
*St. Pauls, Robeson County*  
*Incident Number: ~~29443~~ 29444 (XC)*  
*Risk Classification: High (tentatively)*

Dear Mr. Inman:

On March 27, 2007 the Underground Storage Tank (UST) Section received the UST Closure Report for the above referenced facility. The report has been reviewed and will be maintained in the Fayetteville Regional Office.

Because a discharge or release to the groundwater has been documented at this location, you are required to proceed with further assessment. Requirements can be found in the attached documents. Specifically, please view Sections .0405 & .0406 of the attached Risk Based Assessment and Corrective Action for Petroleum USTs regarding the submittal of a *Limited Site Assessment*.

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).

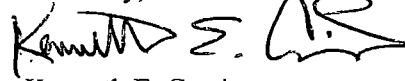
Failure to comply with the State's rules in the manner and time specified may result in the assessment of civil penalties and/or the use of other enforcement mechanisms.

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 me at the address or telephone number listed below.

Sincerely,



Kenneth E. Currie  
Hydrogeologist II  
Fayetteville Regional Office

Attachments

Section .0400 - Risk-Based Assessment and Corrective Action for Petroleum USTs

c: Mr. Thomas Ammons, EHC, Inc., P.O. Box 902, Red Springs, NC 28377

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

**Mooreville (MOR)** – 610 East Center Avenue, Suite 301, Mooreville, 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) 771-4600

**Guilford County Environmental Health**, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

# 24-Hour Release and UST Leak Reporting Form

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release.

? High until residence well is Abandoned?

(DWM USE ONLY)  
Incident # 29944 Risk (H,I,L,U) H  
Received On 8/15/06 Received By SHS KCC  
Reported by (circle one): Phone, Fax or Report  
Region PRO on site

Suspected Contamination? (Y/N) N  
Confirmed GW Contamination? (Y/N) Y  
Confirmed Soil Contamination? (Y/N) Y  
Free Product? (Y/N) N If Yes, State  
Greatest Thickness \_\_\_\_\_

Facility ID Number \_\_\_\_\_  
Date Leak Discovered 8/15/06  
Comm/Non-Commercial? Comm  
Reg/Non-regulated? Reg  
Gas Diesel & Heating Oil

## INCIDENT DESCRIPTION

Incident Name: Inman Plumbing  
Address: 323 South 5th St

County: Robeson

City/Town: St. Pauls

Regional Office (circle one): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (dd.mm.ssss): 34.80413

Longitude (ddd.mm.ssss): 78.97646

Confirmed by GPS? (Y/N) Reg Green

Briefly describe suspected or confirmed release: (including but not limited to: Nature and extent of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)

Soil & groundwater contaminants documented during removal of substandard, unregistered gas & diesel USTs. mw showed numerous compounds exceeding 10x 2L. Minor soil contaminants remain in Heating Oil UST Basin (24 mls Gas - 150 mls DRO). Sidewalls of regulated UST Basin were successfully over excavated to BDL by removal of no more than 5' lateral excavation.

## HOW RELEASE WAS DISCOVERED

(Check one)

- ☐ Release Detection Equipment or Methods  
☒ During UST Closure/Removal  
☐ Property Transfer

- ☐ Visual/Odor  
☐ Water in Tank  
☐ Water Supply Well Contamination

- ☐ Groundwater Contamination  
☐ Surface Water Contamination  
☐ Other (specify) \_\_\_\_\_

## SOURCE OF CONTAMINATION

### Primary Source of Contamination

(Check one)

- ☐ Suspected UST Release  
☒ Confirmed UST Release (Also check one below):  
☐ A. Dispenser  
☐ B. Line Release  
☒ C. Tank Release  
☐ D. Spill/Overfill  
☐ E. Exact Failure Location Unknown or Multiple Failures  
☐ Unknown Source (Believed to be UST Source, explain in "Incident Description" above)

### Primary Contaminant Type

(Check one)

- ☒ Gasoline/Diesel/Kerosene  
☒ Heating Oil  
☐ Other Petroleum Products  
☐ Metals  
☐ Other Inorganics  
☐ Other Organics

### Location

(Check one)

- ☐ Facility  
☐ Residence  
☒ Other

Plumbing Business

### Setting

(Check one)

- ☒ Residential  
☐ Industrial  
☐ Urban  
☐ Rural

### Ownership

1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

### Operation Type

1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining



## IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes      2. No      3. Unknown

Number of Water Supply Wells Affected 1

Water Supply Wells Contaminated: (Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)

1. William Inman, 324 S. 4th St, St. Pauls (Heat Pump / Irrigation well)
2. no longer in use for heat pump, however no
3. record of abandonment

### UST SYSTEM OWNER

UST Owner/Company

Robert Inman (Inman Plumbing)

Point of Contact

Address

323 South 5th St.

City

St. Pauls

State

NC

Zip Code

28384

Telephone Number

### UST SYSTEM OPERATOR

UST Operator/Company

same

Address

City

State

Zip Code

Telephone Number

### LANDOWNER AT LOCATION OF UST INCIDENT

Landowner

Address

City

State

Zip Code

Telephone Number

**Draw Sketch of Area (showing two major road intersections) or Attach Map**

Another potential source for Inman well contamination is ~~Robert~~ Walker's Conv. Store next to Inman Plumbing. I have report of soil contamination in site check.

Person Reporting Incident

KEC

Company

Telephone Number

Title

Address

Date

State of North Carolina  
Department of Environment,  
Health and Natural Resources  
Fayetteville Regional Office

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary  
Andrew McCall, Regional Manager



DIVISION OF ENVIRONMENTAL MANAGEMENT

October 13, 1993

Mr. Tom Keith  
Keith Associates  
P.O. Box 2339  
Lumberton, NC 28359

SUBJECT: Review of Lab Results  
UST Soil Assessment  
Buies Oil  
411 West Broad Street  
~~Lumberton~~, Robeson County  
*St. Pauls*

Dear Mr. Keith:

This is to acknowledge receipt of the above mentioned soil assessment dated September 28, 1993, and received October 6, 1993.

Based on review of the lab results, no additional soil excavation and removal is required. Should new information become available concerning this matter, we reserve the right to reverse this finding.

Should you have any questions or need clarification, please contact me at (919) 486-1541.

Sincerely,

Cynthia A. Hegg  
Hydrogeological Technician

CAH/zlc



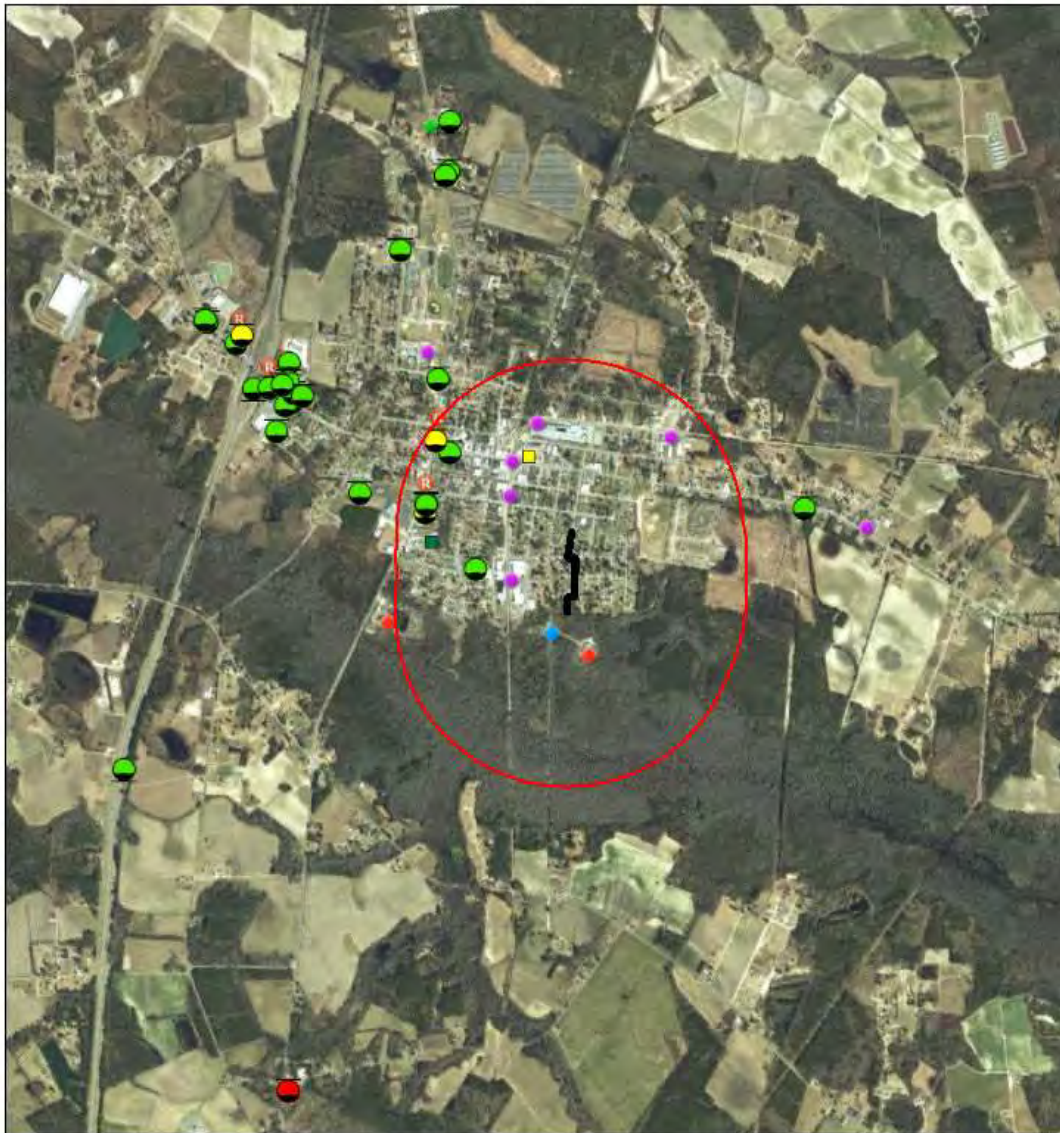


# St. Pauls Flood Imp. (Northern) Project - 3,000-ft Screening Report

## Area of Interest (AOI) Information

Area : 37,281,187.68 ft<sup>2</sup>

Jul 8 2023 12:43:10 Eastern Daylight Time



## Land Clearing and Inert Debris (LICD) Notifications

#	Site_ID	Site_Name	Count
1	N0398	St. Pauls Demolition Site #78A	1

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1

## DryCleaning Historical Boiler Inspections

#	Drycleaner	InspDate	Count
1	CAUDELL QUALITY CLEANERS	5/15/1978	1

## DryCleaning City Directories

#	Drycleaner	Address	Count
1	Kelly's Cleaners	115 East Broad Street, St. Pauls,NC	1
2	Village Square Laundry	347 South 5th Street, St. Pauls,NC	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	23447	RS FOOD MART 1	1
2	29422	ST. PAULS WELL 2	1
3	29444	INMAN PLUMBING	1
4	29449	WALKER'S CONVENIENCE STORE	1
5	47601	Woods Quick Stop	1
6	No Data	BUIES OIL	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000002737	THE MANNING CORP	1
2	00-0-0000019033	MINUTEMAN FOOD MART #42	1
3	00-0-0000019891	D.D. MCCOLL INC	1
4	00-0-0000019931	FIVE STAR DISCOUNT	1
5	00-0-0000026873	JOEY'S PLACE, LLC	1
6	00-0-0000026910	CAROLINA MILLS PLANT #25	1
7	00-0-0000027724	CAROLINA MILLS PLANT 26	1
8	00-0-0000027822	ST PAULS ELEMENTARY SCHOOL	1

## Land Use Restriction and/or Notices

#	Prj_Number	Prj_Name	Count
1	FA-1252	RS FOOD MART 1	1
2	FA-3284	WALKER'S CONVENIENCE STORE	1



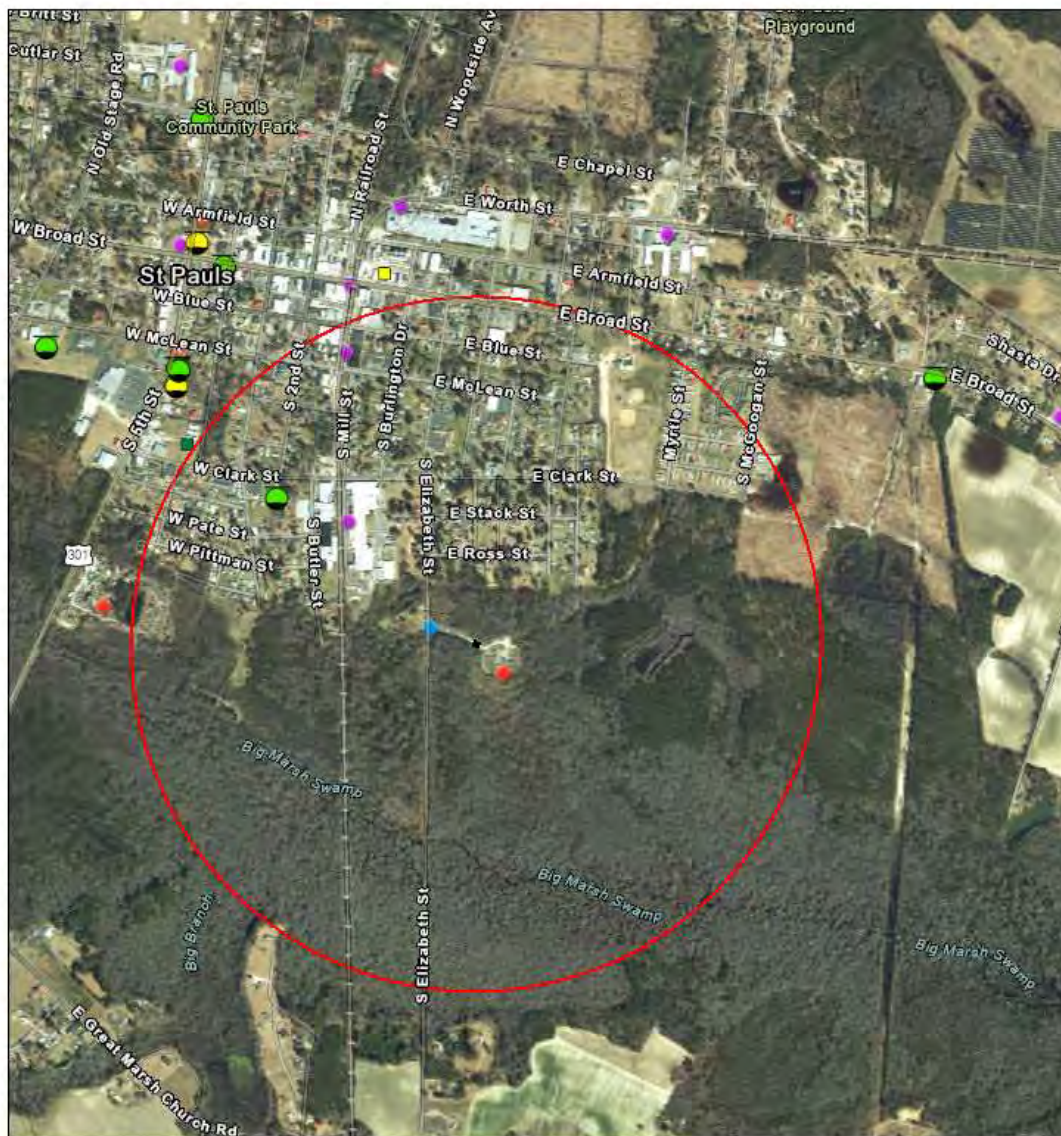


# St. Pauls Flood Imp. (Southern) Project - 3,000-ft Screening Report

## Area of Interest (AOI) Information

Area : 28,618,785.48 ft<sup>2</sup>

Jul 16 2023 10:57:11 Eastern Daylight Time



NCDOT GIS Unit, Esri Community Maps Contributors, State of North Carolina DOT, Esri, HERE, Garmin, Swire, GeoTechnologies, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



## Land Clearing and Inert Debris (LICD) Notifications

#	Site_ID	Site_Name	Count
1	N0398	St. Pauls Demolition Site #78A	1

## Permitted Solid Waste Landfills

#	Permitid	Site Name	Count
1	78A-DEMO-1980	St. Pauls, Town of	1

## UST Incidents

#	IncidentNumber	IncidentName	Count
1	29422	ST. PAULS WELL 2	1

## UST Active Facilities

#	FACILID	FACILNAME	Count
1	00-0-0000002737	THE MANNING CORP	1
2	00-0-0000026910	CAROLINA MILLS PLANT #25	1

Return to:  
Town of St. Pauls  
P.O. Box 364  
St. Pauls, NC 28384

NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT



Demo 78-A St. Pauls Demo Site  
No 398

LAND CLEARING AND INERT DEBRIS LANDFILL NOTIFICATION

Pursuant to 15A NCAC 13B .0563(2)(a), the land owner(s) and operator(s) of any Land Clearing and Inert Debris Landfill under two (2) acres in size shall submit this notification form to the Division prior to constructing or operating the landfill. This form must be filed for recordation in the Register of Deeds' Office. The Register of Deeds shall index the notification under the name of the owner(s) of the land in the county or counties in which the land is located. The Register's seal and the date, book, and page number of recording must be included on this form when submitted to the Division. This notification is not valid to authorize operation of a landfill unless complete, accurate, recorded, and submitted to the Division as required by 15A NCAC 13B .0563(2)(b).

1. Facility Name: St. Pauls Demolition Site #78-A
2. Facility location (street address): S. Elizabeth Street  
City: St. Pauls County: Robeson Zip: 28384
3. Directions to Site: NC 20 East, turn south on S. Elizabeth Street

4. The land on which this landfill is located is described in the deed recorded in:  
Deed Book: 14-X Page: 259 County: Robeson
5. Name of land owner: Town of St. Pauls
6. Mailing address of land owner: PO Box 364  
City: St. Pauls State: NC Zip: 28384
7. Telephone number of land owner: ( 910 ) 865-5164

If the land is owned by more than one person, attach additional sheets with the name, address, and phone number of all additional land owners.

8. Name of operator: Joe N. Loflin Town Administrator Town of St. Pauls
9. Trade or business name of operator: Municipal Government
10. Mailing address of operator: PO Box 364  
City: St. Pauls State: NC Zip: 28384
11. Telephone number of operator: ( 910 ) 865-5164

If the landfill is operated by more than one person, attach additional sheets with the name, address, and phone number of all additional operators.

12. Projected use of land after completion of landfill operations: unknown

BOOK

PAGE

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

992

0293

- (10) Surface water shall be diverted from the working face and shall not be impounded over waste.  
(11) Solid waste shall not be disposed of in water.  
(12) Open burning of solid waste is prohibited.  
(13) The concentration of explosive gases generated by the facility shall not exceed:  
(a) Twenty-five percent of the lower explosive limit for the gases in facility structures.  
(b) The lower explosive limit for the gases at the property boundary.  
(14) Leachate shall be properly managed on site through the use of current best management practices.  
(15) Should the Division deem it necessary, ground water or surface water monitoring, or both, may be required as provided for under Rules .0601 and .0602 of this Subchapter.  
(16) A sign shall be posted at the facility entrance showing the contact name and number in case of an emergency and the permit number. The permit number requirement is not applicable for facilities not requiring an individual permit.

BOOK

PAGE

992

0294

**Certification by Land Owner:**

I certify that the information provided by me in this notification is true, accurate, and complete to the best of my knowledge. The facility siting and disposal operations of this Land Clearing & Inert Debris landfill will comply with the requirements of Sections .0563, .0564 and .0566 of 15A NCAC 13B, North Carolina Solid Waste Management Rules. The facility and operations of this landfill will also comply with all applicable Federal, State, and Local laws, rules, regulations, and ordinances. Where the operator is different from the land owner, I, the land owner, have knowledge of the operator's plans to dispose of solid waste on the land and I specifically grant permission for the operation of the landfill. I understand that both the land owner and operator are jointly and severally liable for improper operations and proper closure of the landfill as provided for by North Carolina General Statute 130A-309.27. I further understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to five thousand dollars (\$5,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this landfill will be required to comply with all such revisions or amendments.

Town of St. Pauls  
Print Name (Owner)

Joe M. Loflin  
Signature (Owner)  
Town Administrator

2-9-98  
Date

North Carolina

Robeson County

I, Karen G Davis, a Notary Public for said County and State, do hereby certify that Joe M Loflin for Town of St Pauls personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9<sup>th</sup> day of Feb, 1998.

Karen G Davis  
Notary Public

My commission expires 9-26-2000.

North Carolina Robeson County

The foregoing Certificate of  
Karen G Davis  
is certified to be correct (Notary/Notaries Public)

This 16<sup>th</sup> day of March, A.D. 1998  
Vicki L. Locklear Deputy/Asst.  
Vicki L. Locklear Register of Deeds

FILED R OF D  
VICKI L. LOCKLEAR

MAR 16 2 03 PM '98

ROBESON COUNTY

WALTER B. NORTON  
MAYOR

GARRIS NEIL YARBOROUGH  
ATTORNEY

JOE N. LOFLIN  
TOWN ADMINISTRATOR

COMMISSIONERS

GORDON WESTBROOK  
A. LOUISE RAY  
J. HOWARD BURKE  
SANDRA G. CAIN  
W. DEWITT ROUNTREE  
DORIS H. SUTTON



ST. PAULS, N.C. 28384

ANNIE S. ESPEY  
TOWN CLERK

R. THOMAS HAGENS  
CHIEF OF POLICE

A. WAYNE McDUFFIE  
PUBLIC WORKS DIRECTOR

February 9, 1998

**RECEIVED**

**FEB 10 1998**

**DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE**

Mr. Isaiah L. Guyton  
DEHNR  
Wachovia Building, Suite 601  
Fayetteville, NC 28301

Dear Mr. Guyton,

This letter is a request to cancel LCID site #78-A, which will be replaced by an LCID, a notification of which is attached. This property is Zoned RA-20, which allows an LCID.

Please call me if you have any questions on this matter.

Sincerely,

Joe N. Loflin

/kd

N0398  
LCID Facility

NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT

May 5, 1998



JAMES B. HUNT JR.  
GOVERNOR

WAYNE McDEVITT  
SECRETARY

WILLIAM L. MEYER  
DIRECTOR

Mr. Joe N. Loflin, Town Administrator  
Town of St. Pauls  
P.O. Box 364  
St. Pauls, North Carolina 28384

Ref: St. Pauls - Land Clearing & Inert Debris Notification  
located in St. Pauls, Robeson County as described by  
the deed recorded in BOOK: 14-X PAGE: 259.

Mr. Loflin:

The Solid Waste Section has received the Land Clearing and Inert Debris landfill notification signed by you on 9 February 1998, received 3 April 1998. Disposal activities must remain under 2 acres, to operate under the provisions of this notification. An individual permit from the Section is not required for these disposal activities, and the following applies:

- (a). The owner of the land where the landfill is located must notify the Division on a prescribed form, duly signed, notarized, and recorded as per Sub-item (2)(b) of this Rule. The operator of the landfill, if different from the land owner, shall also sign the notification form.
- (b). The owner must file the prescribed notification form for recordation in the Register of Deeds' Office. The Register of Deeds shall index the notification in the grantor index under the name of the owner of the land in the county or counties in which the land is located. A copy of the recorded notification, affixed with the Register's seal and the date, book and page number of recording shall be sent to the Division of Waste Management.

If this property is sold, leased, conveyed or transferred, the deed or other instrument of transfer shall contain in the description section, in no smaller type than used in the body of the deed or instrument, a statement that the property has been used as a Land Clearing and Inert Debris landfill.

FAYETTEVILLE REGIONAL OFFICE  
225 GREEN STREET, SUITE 601, FAYETTEVILLE, NC 28301-5043  
PHONE 910-486-1191 FAX 910-486-1791

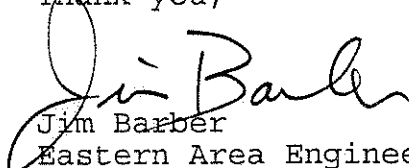
AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER

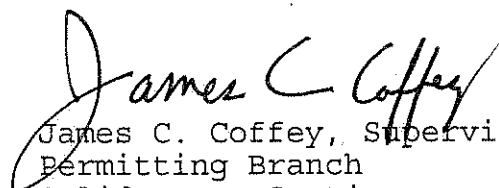
Mr. Loflin  
Page 2  
May 5, 1998

Amendments or revisions to the Solid Waste Management Rules or violation of groundwater standards may necessitate modification of the construction and operation of this facility or closure of this facility. If information in the notification is found to be inaccurate or false, then compliance action by the Solid Waste Section and/or the local government with jurisdiction may result in closure of this facility.

If you have any questions or if we can provide any other assistance, please do not hesitate to contact the Regional Waste Management Specialist, Mr. Ikie Guyton or Jim Barber at (910) 486-1191.

Thank you,

  
Jim Barber  
Eastern Area Engineer  
Solid Waste Section

  
James C. Coffey, Supervisor  
Permitting Branch  
Solid Waste Section

cc: Terry Dover  
Ikie Guyton  
Misty Franklin/RCO Central File: Robeson County Notification  
file



WALTER B. NORTON  
MAYOR

GARRIS NEIL YARBOROUGH  
ATTORNEY

JOE N. LOFLIN  
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ST. PAULS, N.C. 28384

ANNIE S. ESPEY  
TOWN CLERK

R. THOMAS HAGENS  
CHIEF OF POLICE

A. WAYNE McDUFFIE  
PUBLIC WORKS DIRECTOR

RECEIVED

APR 03 1998

DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE

March 30, 1998

Mr. Isaiah L. Guyton  
DEHNR  
Wachovia Building, Suite 601  
Fayetteville, NC 28301

Dear Mr. Guyton:

This letter is a request to cancel LCID site #78-A, which will be replaced by an LCID. A notification has been recorded with the Robeson County Register of Deeds and a copy is attached. This property is zoned RA-20, which allows an LCID.

Please call me if you have any questions on this matter.

Sincerely,

*Joe N. Loflin*  
Joe N. Loflin

/le

Attachment

Robinson  
JWR

Carmen Johnson  
7B-F 12/11/09

July 23, 1981

Mr. James Fields, Jr.  
700 Armory Street  
St. Pauls, NC 28384

Dear Mr. Fields:

The enclosed plan is approved in accordance with  
G.S. 130-155. Permit Number 7B-F is issued under  
conditions provided for on the permit.

If you have any questions, please contact us.

Very truly yours,

Thomas C. Karnoski, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

TCK:ms  
Enclosure  
cc: Andrew Robinson, Jr.

PERMIT NO. 78-FDATE ISSUED 7/13/81STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES*Division of Health Services*

P.O. Box 2091

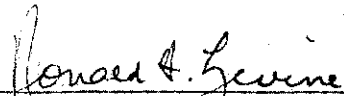
Raleigh 27602


## SOLID WASTE PERMIT

JAMES FIELDS, JR. is hereby issued a permit to  
operate a SANITARY LANDFILL (DEMOLITION-LANDSCAPE)  
located ON U.S. 301, ROBESON COUNTY,  
in accordance with Article 13B of the General Statutes of North Carolina and all  
rules promulgated thereunder. The facility is located on the below described  
property.

BEGINNING at an iron stake in a ditch, in the southeast right of way (30 ft. from center) of U.S. Highway 301, the Southwest corner of a lot previously conveyed by Troy Gilbert Pait to James Fields, Jr., and running thence as the line of said lot South 61 degrees 24 minutes East 210.1 ft. to an iron stake; thence as another line of said lot North 28 degrees 36 minutes East 30 ft. to an iron stake with a pine pointer on the Northern edge of a small road; thence as edge of said road South 60 degrees 27 minutes East 330 ft. to an iron stake with a pine pointer; thence as the Eastern line of said lot North 29 degrees 33 minutes East 209.1 ft. to an iron stake with 2 poplar pointers, said stake being in the southern line of the F.R. Keith Reproduction of a portion of the First Dean Subdivision (Map Book 5, page 124); thence with and beyond the F.R. Keith Subdivision and with the Southern line of the Second Dean Subdivision (Map Book 6, page 38) South 72 degrees East 521.7 feet to a stake in said line, the corner of a 39.44 acre tract this day conveyed by the parties of the first part to Roy Pait; thence as the dividing line between James Fields, Jr. and Roy Pait South 18

(continued)

  
Ronald H. Levine, M.D.  
Acting Director  
Division of Health Services

  
O. W. Strickland, Head  
Solid & Hazardous Waste Management  
Branch  
Environmental Health Section

PERMIT NO. 78-FDATE ISSUED 7/13/81

## SOLID WASTE PERMIT

## Property Description (Continued):

degrees West 1343 feet to a point in the run of the Great Marsh Swamp; thence as the various courses of the run of said swamp the following courses and distances: North 62 degrees 10 minutes West 83 feet, North 85 degrees West 65.9 feet, North 61 degrees West 99.9 feet, North 83 degrees West 112.2 feet, North 39 degrees 50 minutes West 356.4 feet, South 53 degrees 30 minutes West 66.1 feet, North 61 degrees 20 minutes West 79.2 feet, North 8 degrees East 39.6 feet, North 48 degrees West 79.1 feet, North 32 degrees East 105.6 feet, North 52 degrees West 138 feet, North 73 degrees 40 minutes West 165 feet, and North 16 degrees 20 minutes West 221 feet to a point in the southeast right of way (30 feet from center) of U.S. Highway 301; thence as said right of way North 29 degrees 20 minutes East 668 feet to the Beginning, containing 29.44 acres, more or less.

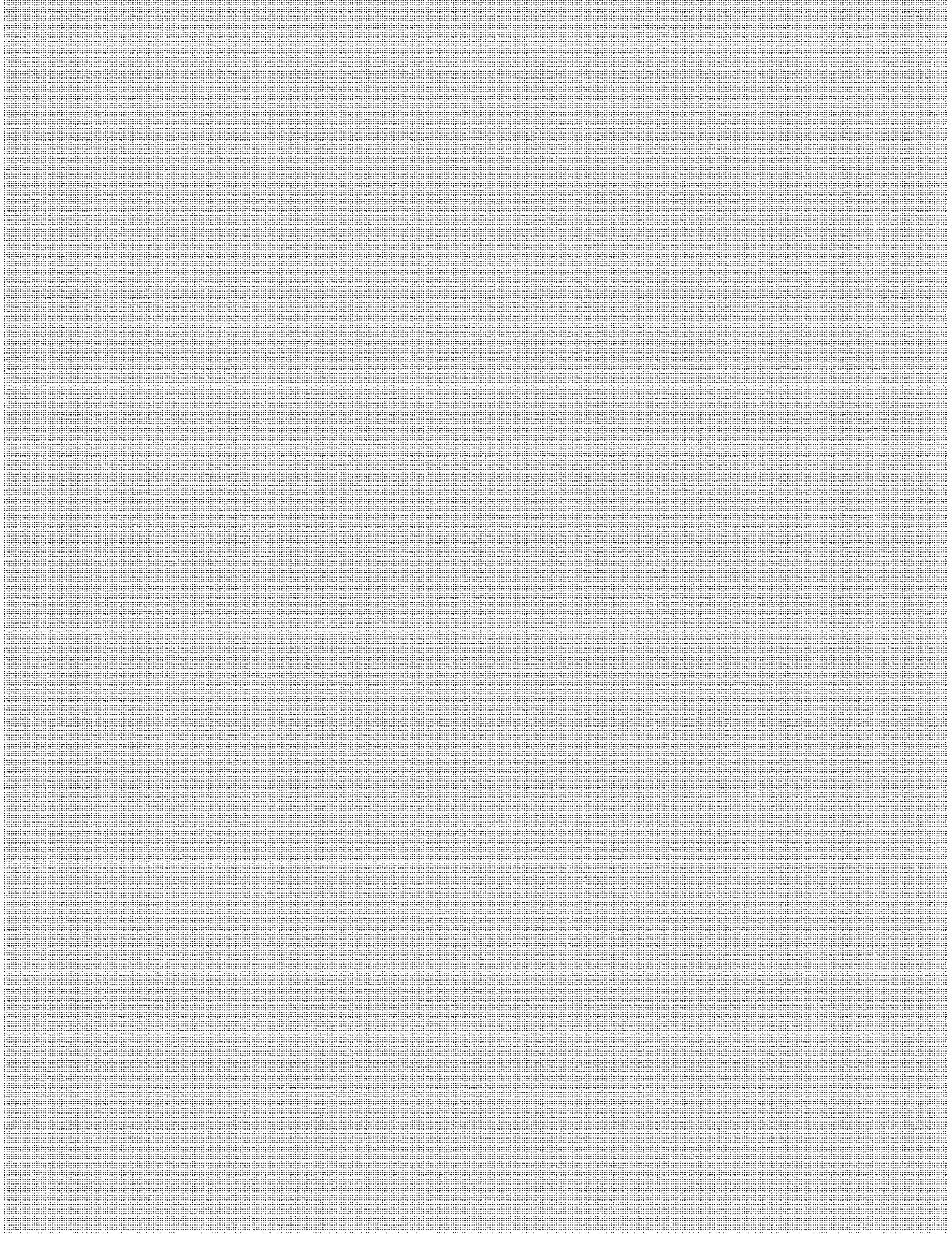
PERMIT NO. 78-FDATE ISSUED 7/13/81

## SOLID WASTE PERMIT

## Conditions of Permit:

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.
2. The following requirements shall be met prior to receiving solid waste at the site:
  - a. Filing of the certified copy of the permit with the register of deeds.
  - b. Site preparation in accordance with operational plan.
  - c. Site inspection made by a representative of the Division of Health Services.
  - d. Posting of the solid waste permit number on the entrance sign to the landfill.
3. Material to be disposed limited to stumps, limbs, leaves, concrete, masonry, wood, or uncontaminated earth.







## DEMOLITION-LANDSCAPE LANDFILL

### Questions Page 2

1. A plot plan of the proposed site showing the property boundary, proposed land-filling limits, access controls and features such as roads, streams, etc.

See attached map. Land is flat, proposed two feet of fill over roughly two acres of land.

2. Provisions for controlling erosion (erosion control plan).

N/A

3. Procedures for promoting vegetative growth as soon as possible on all completed areas (seeding and fertilizer specifications).

N/A Plan to use land for parking junk cars.

4. A description of the site that would be sufficient as a description in an instrument of conveyance (copy of deed) and property owner's name.

See attached deed

5. Anticipated type of material to be disposed of at the site.

Demolition type materials (concrete, wood, brick, & uncontaminated dirt)

6. Name and phone number of individual responsible for operation and maintenance of the site.

James Fields, Jr. (Jimmy)

709 Armory St.

St. Pauls, N. C. 28384

865-4695 days 865-5560 nights

7. Projected use of land after completion of the fill.

Land to be used for business enlargement. (junk yard)

8. Any other information pertinent to the proposed operational plan.

In last seven years, approximately two acres has been filled. At present rate about  $\frac{1}{2}$  acre a year is being filled.

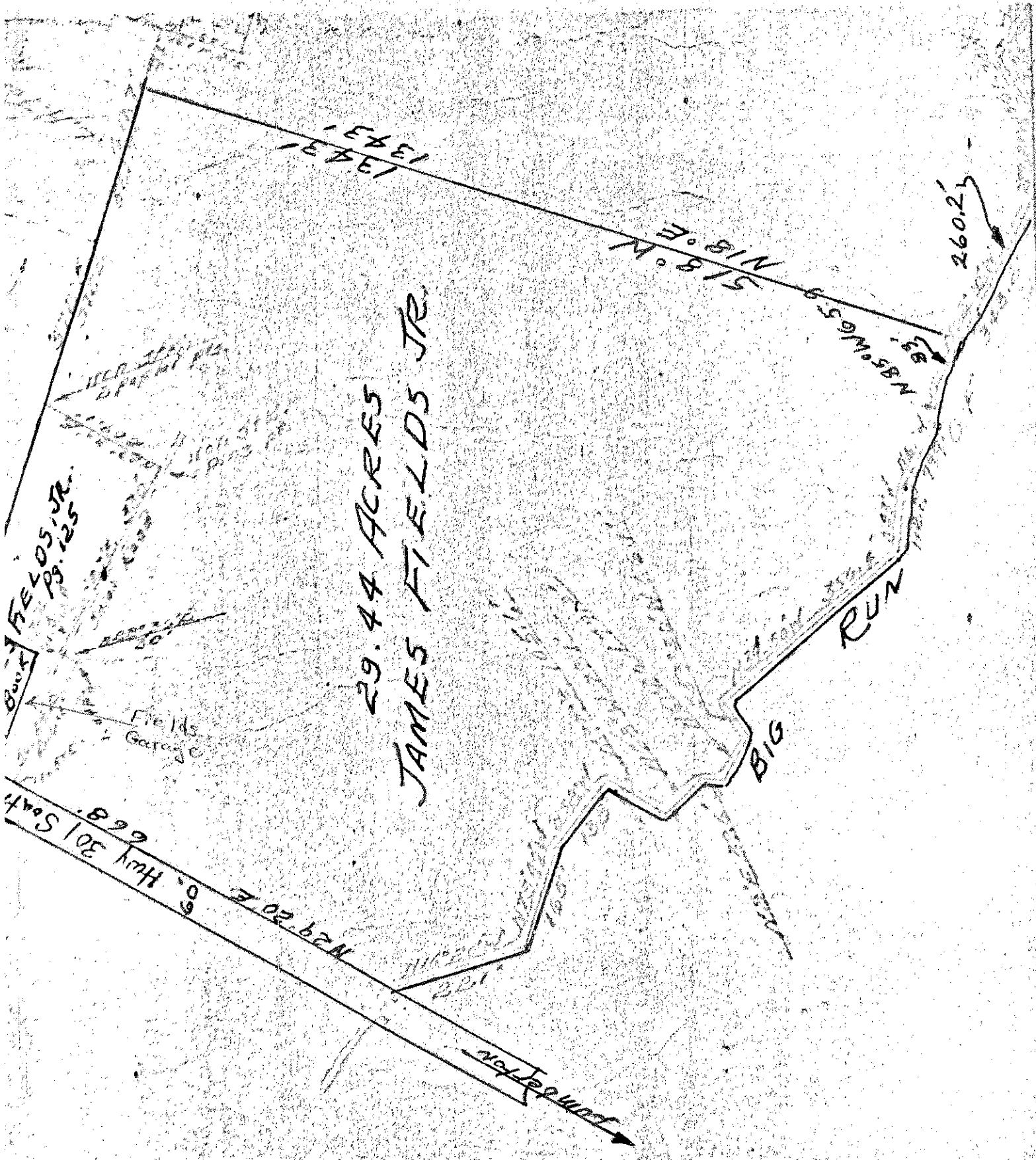
STATE OF NORTH CAROLINA, \_\_\_\_\_ Robeson \_\_\_\_\_ County.  
THIS DEED, Made this 11th day of December, 19 72, by and between Troy Gilbert Pait and wife,  
Elva B. Pait \_\_\_\_\_

\_\_\_\_\_ of \_\_\_\_\_ Bladen \_\_\_\_\_ County  
and state of North Carolina, hereinafter called Grantor, and JAMES FIELDS, JR.  
\_\_\_\_\_ of \_\_\_\_\_ Robeson \_\_\_\_\_ County and State of North Carolina, hereinafter  
called Grantee

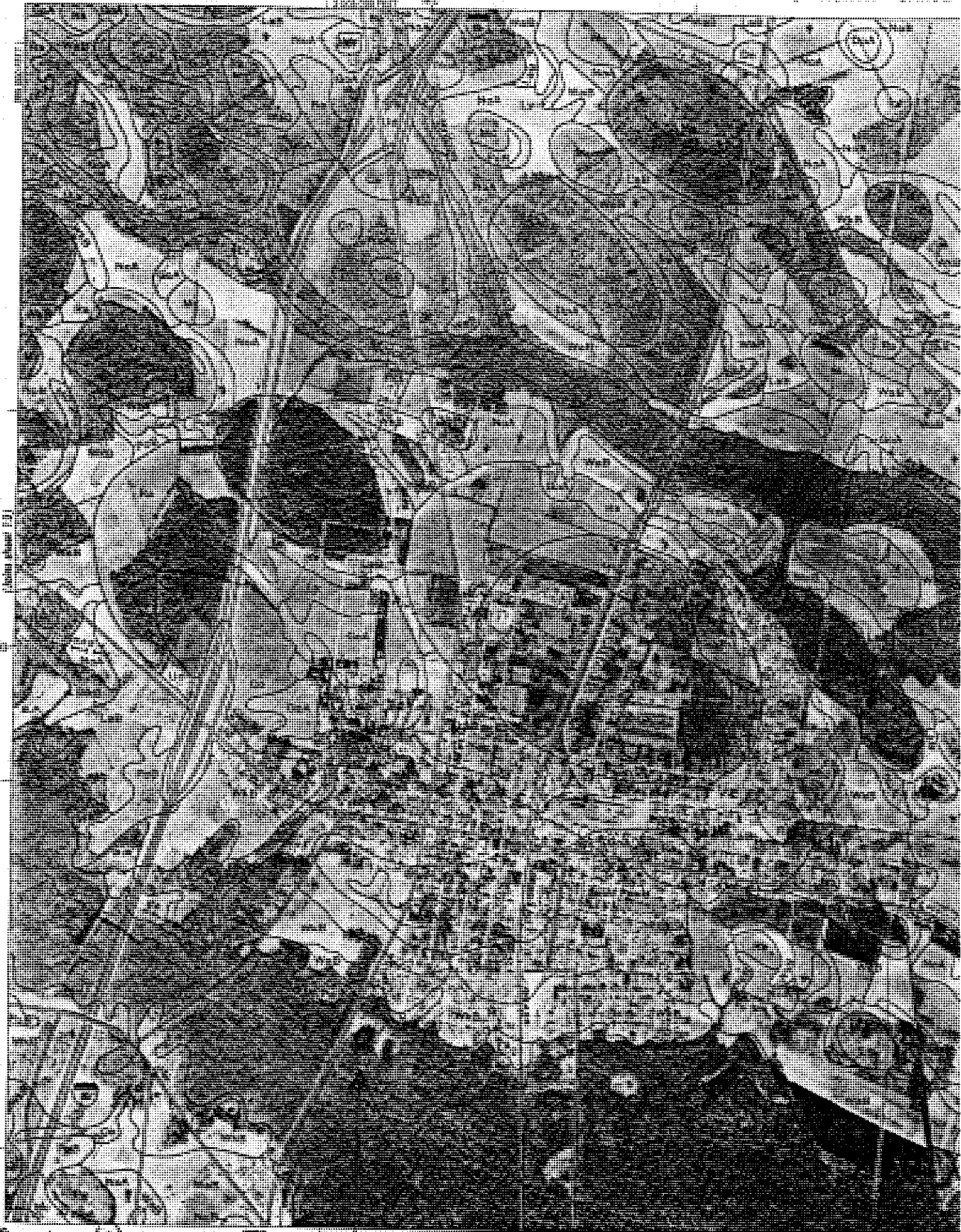
WITNESSETH: That the Grantor, for and in consideration of the sum of -----TEN----- Dollars  
and other good and valuable considerations to him in hand paid by the Grantee, the receipt whereof is hereby acknowledged, has given, granted, bargained, sold  
and conveyed, and by these presents does give, grant, bargain, sell, convey and confirm unto the Grantee, his heirs and/or successors and assigns, premises in  
St. Pauls \_\_\_\_\_ Township, \_\_\_\_\_ Robeson \_\_\_\_\_ County, North Carolina, described as follows:

Lying and being about 2000 feet south of Broad Street in the Town of St. Pauls and on  
the Southeast side of U.S. Highway 301 leading from Lumberton to Fayetteville. Bounded  
on the west by said U.S. Highway 301, on the North by a lot previously conveyed to  
James Fields, Jr. and the First and Second Subdivision of the Dean Land, on the East by  
other lands of Troy Gilbert Pait to be conveyed to Roy Pait, on the South by the run of  
the Great Marsh Swamp and more particularly described as follows, to-wit:  
BEGINNING at an iron stake in a ditch, in the southeast right of way (30 ft. from center)  
of U.S. Highway 301, the Southwest corner of a lot previously conveyed by Troy Gilbert  
Pait to James Fields, Jr. and running thence as the line of said lot South 61 degrees  
21 minutes East 210.1 ft. to an iron stake; thence as another line of said lot North  
28 degrees 36 minutes East 30 ft. to an iron stake with a pine pointer on the Northern  
edge of a small road; thence as edge of said road South 60 degrees 27 minutes East 330  
ft. to an iron stake with a pine pointer; thence as the Eastern line of said lot  
North 29 degrees 33 minutes East 209.1 ft. to an iron stake with 2 poplar pointers, said  
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356.4 feet, South 53 degrees 30 minutes West 66.1 feet, North 61 degrees 20 minutes West  
79.2 feet, North 8 degrees East 39.6 feet, North 48 degrees West 79.1 feet, North 32  
degrees East 105.6 feet, North 52 degrees West 138 feet, North 73 degrees 40 minutes  
West 165 feet, and North 16 degrees 20 minutes West 221 feet to a point in the southeast  
right of way (30 feet from center) of U.S. Highway 301; thence as said right of way  
North 29 degrees 20 minutes East 668 feet to the Beginning, containing 29.44 acres, more  
or less, and being a portion of the lands described in a deed from J. Browne Evans et ux,  
Alfreda P. Evans to Troy Gilbert Pait, dated July 14, 1966 and recorded in Book 15-S,  
page 270, Robeson County Registry.

This is unimproved swamp land.  
\*\*\*\*\*



Question (1) a. + b.

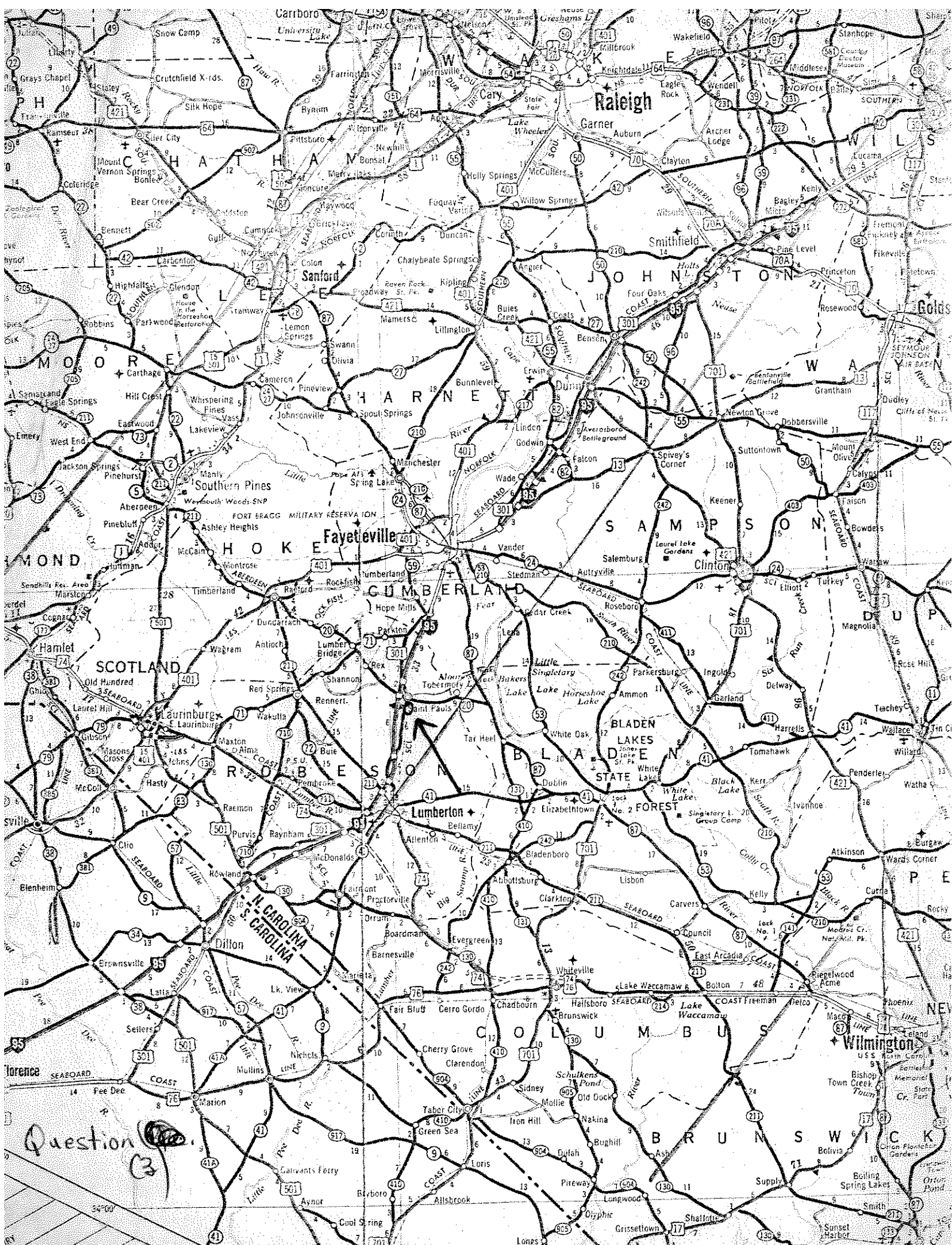


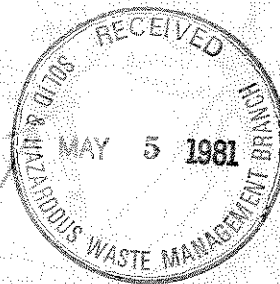
Question (1)



Site Circled in Red









WEATHER CONDITIONS

DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES  
INSPECTION FOR SANITARY LANDFILLS

PERMIT NUMBER

NAME OF SITE

LOCATION

SIGNATURE OF PERSON RECEIVING REPORT

SIR: AN INSPECTION OF YOUR LAND DISPOSAL SITE HAS BEEN MADE THIS DATE AND YOU ARE NOTIFIED OF THE VIOLATIONS, IF ANY, MARKED BELOW WITH A CROSS (X).

(1) PLAN AND PERMIT REQUIREMENTS

- \_\_\_ (a) Construction plans shall be approved and followed.
- \_\_\_ (b) Specified monitoring and reporting requirements shall be met.

(2) SPREADING AND COMPACTING REQUIREMENTS

- \_\_\_ (a) Solid waste shall be restricted into the smallest area feasible.
- \_\_\_ (b) Solid waste shall be compacted as densely as practical into cells.

(3) COVER REQUIREMENTS

- \_\_\_ (a) Solid waste shall be covered after each day of operation, with a compacted layer of at least six inches of suitable cover or as specified by the division.
- \_\_\_ (b) Areas which will not have additional wastes placed on them for 12 months or more shall be covered with a minimum of one foot of intermediate cover.
- \_\_\_ (c) After final termination of disposal operations at the site or a major part thereof or upon revocation of a permit, the area shall be covered with at least two feet of suitable compacted earth.

(4) EROSION CONTROL REQUIREMENTS

- \_\_\_ (a) Adequate erosion control measures shall be practiced to prevent silt from leaving the site.
- \_\_\_ (b) Adequate erosion control measures shall be practiced to prevent excessive on-site erosion.

(5) DRAINAGE CONTROL REQUIREMENTS

- \_\_\_ (a) Surface water shall be diverted from the operational area.
- \_\_\_ (b) Surface water shall not be impounded over or in waste.
- \_\_\_ (c) Completed areas shall be adequately sloped to allow surface water runoff in a controlled manner.

(6) VEGETATION REQUIREMENTS

- \_\_\_ (a) Within six months after final termination of disposal operations at the site on a major part thereof or upon revocation of a permit, the area shall be stabilized with native grasses.
- \_\_\_ (b) Temporary seeding will be utilized as necessary to stabilize the site.

(7) WATER PROTECTION REQUIREMENTS

- \_\_\_ (a) The separation distance of four (4) feet between waste and water table shall be maintained unless otherwise specified by the division in the permit.
- \_\_\_ (b) Solid waste shall not be disposed of in water.
- \_\_\_ (c) Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to the discharge of leachate to surface waters.

(8) ACCESS AND SECURITY REQUIREMENTS

- \_\_\_ (a) The site shall be adequately secured by means of gates, chains, berms, fences, and other security measures approved by the division, to prevent unauthorized entry.
- \_\_\_ (b) An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- \_\_\_ (c) The access road to the site shall be of all-weather construction and maintained in good condition.
- \_\_\_ (d) Dust control measures shall be implemented where necessary.

(9) SIGN REQUIREMENTS

- \_\_\_ (a) Signs providing information on dumping procedures, the hours during which the site is open for public use, the permit number and other pertinent information shall be posted at the site entrance.
- \_\_\_ (b) Signs shall be posted stating that no hazardous or liquid waste can be received without written permission from the division.
- \_\_\_ (c) Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.

(10) SAFETY REQUIREMENTS

- \_\_\_ (a) Open burning of solid waste is prohibited.
- \_\_\_ (b) Equipment shall be provided to control accidental fires or arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed.
- \_\_\_ (c) Fires that occur at a sanitary landfill shall be reported to the division within 24 hours and a written notification shall be submitted within 15 days.
- \_\_\_ (d) The removal of solid waste from a sanitary landfill is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- \_\_\_ (e) Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein.

(11) WASTE ACCEPTANCE AND DISPOSAL REQUIREMENTS

- \_\_\_ (a) A site shall only accept those solid wastes which it is permitted to receive.
- \_\_\_ (b) No hazardous, liquid, or infectious waste shall be accepted or disposed of in a sanitary landfill except as may be approved by the division.
- \_\_\_ (c) Spoiled foods, animal carcasses, abattoir waste, hatchery waste, and other animal waste delivered to the disposal site shall be covered immediately.
- \_\_\_ (d) Asbestos waste that is packaged in accordance with 40 CFR 61, as amended through January 1, 1985, may be disposed of separate and apart from other solid wastes at the bottom of the working face or in an area not contiguous with other disposal areas, in either case, in virgin soil. Separate areas shall be clearly marked so that asbestos is not exposed by future land-disturbing activities. The waste shall be covered immediately with soil in a manner that will not cause airborne conditions. Copies of 40 CFR 61 may be obtained and inspected at the Solid and Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

(12) MISCELLANEOUS REQUIREMENTS

- \_\_\_ (a) Effective vector control measures shall be applied to control flies, rodents, and other insects or vermin when necessary.
- \_\_\_ (b) Appropriate methods such as fencing and diking shall be provided within the area to confine solid waste subject to be blown by the wind. At the conclusion of each day of operation, all windblown material resulting from the operation shall be collected and returned to the area by the owner or operator.

REMARKS:

Site looks good! Stay back from wetlands on creek bank as per Corps of Eng. instructions. Slope banks along edge when fill completed & slope 2-1 and seed with grass.

DATE:

NAME:

Solid and Hazardous Waste Management Branch

FAIR  
Weather ConditionsN.C. DEPARTMENT OF HUMAN RESOURCES  
DIVISION OF HEALTH SERVICES78-5  
Permit Number

## INSPECTION FORM FOR SANITARY LANDFILLS

JAMES Field, Jr. DE MO. 208  
Name of SiteRaleigh  
CountyU.S. 301  
Location

Signature of Person(s) Receiving Report

SIR: An inspection of your land disposal site has been made this date and you are notified of the violations, if any, marked below with a cross (X).

## 1. PLAN REQUIREMENTS

- ☐ Site plan approved  
☐ Construction plans approved  
☐ Plans being followed

## 2. SPREADING &amp; COMPACTING

- ☐ Waste restricted to the smallest area practicable  
☐ Waste properly compacted

## 3. COVER REQUIREMENTS

- ☐ Six inches daily cover  
☐ Two foot final cover  
☐ One foot intermediate cover

## 4. DRAINAGE CONTROLLED

- ☐ On-site erosion  
☐ Off-site siltation  
☐ Erosion control devices  
☐ Seeding of completed areas  
☐ Temporary seeding

## 5. WATER PROTECTION

- ☐ Off-site leaching  
☐ Waste placed in water  
☐ Surface water impounded  
☐ Monitoring wells installed

## 6. ACCESS

- ☐ Attendant on duty  
☒ Access controls  
☐ All weather road  
☐ Dust controlled

## 7. BURNING

- ☐ Evidence of burning  
☐ Fire control equipment available

## 8. SPECIAL WASTES

- ☐ Spoiled food, animal carcasses, abattoir waste, hatchery waste, etc., covered immediately

## 9. UNAUTHORIZED WASTES ACCEPTED WITHOUT WRITTEN PERMISSION

- ☐ Type \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 10. VECTOR CONTROL

- ☐ Effective control measures

## 11. MISCELLANEOUS

- ☐ Blowing material controlled  
☐ Proper signs posted

## REMARKS:

Post Permit number. Limitations to site  
small amount of shop waste on site. oil, grease, etc. on the  
material should go to the sanitary landfill

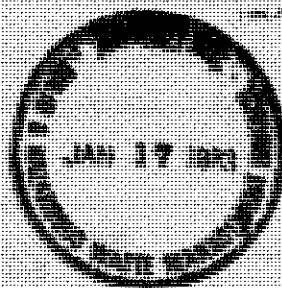
DATE

1-14-83

NAME

Richard L. Bays

Solid &amp; Hazardous Waste Management Branch





NC DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

Division of Solid Waste Management

Solid Waste Section

SOLID WASTE MANAGEMENT FACILITY EVALUATION REPORT

Type of Facility LCID Permit # 78-F County ROBERSON

Name of Facility FIELDS SITE Location ST. PAULS

Date of Last Evaluation —

I. Permit Conditions Followed ☒ Yes ☐ No ☐ N/A

A. Specific Condition(s) Violated —

II. Operational Requirements Followed ☒ Yes ☐ No

15A N.C. Admin. Code 138 Section —

A. Specific Violation(s) by number and letter.

III. Other Violations of Rule or Law —

IV. Evaluator's Comments SITE CLOSED - PERMITS TO BE CANCELLED -

V. Continuation Page Required? ☐ Yes ☒ No Receiving Signature James Fields Jr

Evaluation Date 1-19-94 Solid Waste Section —

DEHNR 3793 (Part I White: Facility Part II Canary: Central Office Part III Pink: Regional Office)

Solid Waste Section (Review 7/94)

*345*  
*600002* *7-8* *010*  
**Purpose:** G.S. 130A-294 requires that an evaluation program be established for the operation of solid waste management facilities on a statewide basis. The Solid Waste Management Act and Solid Waste Management Rules codified at 15A NCAC 13B list requirements which must be followed by solid waste facilities.

**Instructions:** Solid Waste Section personnel shall complete the evaluation form each time they conduct official evaluations. The form shall be signed by the person(s) receiving the report.

**Distribution:** Part I White: facility copy  
Part II Canary: Raleigh central office file copy  
Part III Pink: Regional office file copy

**Disposition:** This form may be retained in accordance with the Record Retention and Disposition Schedule of the Solid Waste Section, Solid Waste Management Division of the Department of Environment, Health and Natural Resources.

*OF 271493 - 030003 - 010*  
*BE CANCELLED - 030003 - 010*

# SOLID WASTE MANAGEMENT FACILITY EVALUATION REPORT

Type of Facility LCID Permit # 7B-F County KOBES

Name of Facility FIELDS SITE Location ST. PETERS

Date of Last Evaluation 11/02/02

I. Permit Conditions Followed Yes No N/A

A. Specific Condition(s) Violated \_\_\_\_\_

[illegible]

you will not want to miss this opportunity

---

you will not want to miss this opportunity

---

you will not want to miss this opportunity

II. Operational Requirements Followed ✓ Yes        No

15A N.C. Admin. Code 13B Section \_\_\_\_\_

A. Specific Violation(s) by number and letter.

### III. Other Violations of Rule or Law

IV. Evaluator's Comments OPERATION TO CLOSE: NO WASTES RECEIVED IN  
ONE YEAR - COVER MATERIAL BEING APPLIED FOR  
CLOSEOUT. TO RECHECK FOR CLOSE OUT IN 6 MOS.

V. Continuation Page Required? Yes ☒ No ☐ Receiving Signature 12/1/1

Evaluation Date 2-9-93 Solid Waste Section [Signature]





**NCORR Infrastructure - NEPA REVIEW QUESTIONNAIRE****Project Name:** Town of St. Paul's Flood Improvements**Address(es):** S. Johnson Street, East Clark Avenue, East Ross Avenue, St. Paul's Waste Water Treatment Plant**HUD Program:** North Carolina Hurricane Matthew Recovery Program**HUD Funding Amount:** \$451,500.00**Non-HUD Program:** Not Applicable**Non-HUD Funding Amount:** \$0.00**Non-HUD Funding Source:** Not Applicable**Non-HUD Funding Amount:** \$0.00**Non-HUD Funding Source:** Not Applicable**Non-HUD Funding Amount:** \$0.00**Project Description:** Stormwater Drainage Improvements**State/Local Identifier:** CRI-155-0002

<b>Type of Facility</b>	<input checked="" type="checkbox"/> Public owned <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (Easement Process Underway)
<b>Land Use Type</b> (check all that apply)	<input type="checkbox"/> Single Family Residential <input type="checkbox"/> Multi-family Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Public services <input checked="" type="checkbox"/> Vacant, list previous use: E. Ross Avenue Easement Area former residential site; razed at undetermined date.
<b>Project Type</b> (check all that apply)	<input checked="" type="checkbox"/> Acquisition of Property (Permanent Easements) <input type="checkbox"/> Demolition <input checked="" type="checkbox"/> New Construction (Drainage Infrastructure) <input checked="" type="checkbox"/> Rehabilitation of Existing (Drainage Infrastructure) <input checked="" type="checkbox"/> Expansion of Existing (Expansion of current drainage system) <input type="checkbox"/> Replacement of Existing <input type="checkbox"/> Relocation <input type="checkbox"/> Leasing <input type="checkbox"/> Machinery and Equipment (tools) <input type="checkbox"/> Other, explain:
<b>Other Non-HUD Funding will be Used for this Project</b>	<input type="checkbox"/> Yes, list source(s) and amount: Not Applicable

	<input type="checkbox"/> No
<b>Reason/Need for Project</b>	Stormwater conveyance upgrades and construction to prevent future flooding of SE quadrant of St. Paul's, directing stormwater to downstream areas.
<b>Project Location and Project Plans</b>	Attach site plans, if available. Plans are: <input type="checkbox"/> Sub-recipient sketch plan <input checked="" type="checkbox"/> Pending <input type="checkbox"/> Preliminary <input type="checkbox"/> 30% or other %: ____ <input type="checkbox"/> Final <input type="checkbox"/> If no plans are available, draw on tax maps (to be provided.) Please verify correct parcels and street addresses identified on tax maps.
<b>Square Footage of Project</b>	Approximately 145,670 Sq. Ft.
<b>Soil Disturbance from Project</b>	<input checked="" type="checkbox"/> Yes, cause and depth <u>Excavation, clearing &amp; grubbing, pipe installation, not to exceed 8' in depth.</u> <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Site Inspections and/or Site Photographs</b>	<input checked="" type="checkbox"/> Yes, by and date: B. Blankenship, PM, 3/12/2022 <input type="checkbox"/> Pending <input type="checkbox"/> No
<b>Environmental Inspections</b> (Check all that apply. Identify if completed or pending <u>and</u> attach, if available)	<input checked="" type="checkbox"/> None <input type="checkbox"/> Phase I ESA <input type="checkbox"/> Phase 2 ESA/Limited Site or Remedial Investigation (soils test) <input type="checkbox"/> Phase 3 ESA <input type="checkbox"/> Vapor Testing <input type="checkbox"/> Phase I Archeological Survey <input type="checkbox"/> Asbestos Inspection <input type="checkbox"/> Lead Inspection <input type="checkbox"/> Noise Assessment <input type="checkbox"/> Traffic Study <input type="checkbox"/> Other:
<b>Historic Properties: None Noted during Survey</b>	<input type="checkbox"/> Year Structure Built <input type="checkbox"/> Year Developed <input type="checkbox"/> Identified Historical Building or Property (onsite or adjacent?)
<b>Aboveground (AST) or Underground (UST) Storage Tanks Onsite? AST within 1 mile of site?</b>	<input type="checkbox"/> Yes, type and gallons, if known <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Offsite, if known

<b>Other Hazardous Materials used onsite</b> (Large Quantity Chemicals, Fuels, etc.)	List, if known: None Noted
<b>Permits Required for Project</b> (Identify Type, Status and attach if available)	<input checked="" type="checkbox"/> Yes, list type and status <u>Potential DEQ permitting for Stormwater Conveyance, Local excavation permits</u> <input type="checkbox"/> No <input type="checkbox"/> Unknown/TBD
<b>If New Construction, connecting to existing utilities</b> (sewer and water), <b>energy efficient</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, explain:
<b>Parks Located Nearby</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Transportation at the Site</b> (note if adding/upgrading/using existing) Municipal Streets	<input type="checkbox"/> Sidewalks <input type="checkbox"/> Bike Paths <input type="checkbox"/> Bus Access <input type="checkbox"/> Train Access
<b>Agency Consults already completed? Previous NEPA review completed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Other adjacent properties owned by same subrecipient?</b>	<input checked="" type="checkbox"/> Yes, and Addresses: St. Paul's Waste Water Treatment Plant, S. Elizabeth Street, Town of St. Paul's, North Carolina. <input type="checkbox"/> No
<b>Other projects on site or adjacent property by Subrecipient not included in Project Description/ Environmental Review?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Private or Non-HUD funds committed before NEPA?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown

## Site Suitability, Access, and Compatibility with Surrounding Development

for recording impacts considered under Item 26 of HUD-Form 4128

Project Name	Investigator(s)	Site Visit Date
Town of St. Pauls Flood Improvements	Bill Blankenship	3/12/22

### ZONING

**Is the project in compliance or conformance with local zoning?**

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No (explain)	No change in land use proposed, existing infrastructure system
<input type="checkbox"/>			Not applicable (explain)	

### SITE OBSERVATIONS

#### Soil Stability, Erosion, and Drainage

**Describe slope at project site (Steep, Moderate, Slight, Level):**

--

**\*Check** those features that were observed on or adjacent to the property at the time of the visit.

Natural Hazards			
	Faults, fractures		Slope-failures from rains
	Cliffs, bluffs, crevices		Hazardous terrain features
X	Evidence of slope erosion		High water table
	Unstable slope conditions		Other (Specify):

Check all items that apply:

Wetlands Onsite or Adjacent			
x	Drainage ways	x	Marsh, bogs, swamps
x	Streams, Rivers		Ponds

	Coastline		Lake
<b>Explain Wetlands onsite or adjacent below:</b>			
Big Marsh Swamp and associated wetlands on portions of WWTP parcel			
<b>Toxic Chemicals and Contamination Onsite or Adjacent</b>			
N/A	Distressed Vegetation	N/A	Abandoned Machinery, Cars, etc.
N/A	Oil/Chemical Spill(s)	N/A	Transformers
N/A	Soil Staining, Pools of Liquid	N/A	Fill Vent Pipes, Pipelines
N/A	Fire hazard materials	N/A	Railroad Terminal or Crossing
N/A	Hazards in vacant lots	N/A	Other hazardous chemical storage
N/A	AST and/or UST ( <i>Below</i> )	N/A	Loose /Empty Barrels
N/A	Quarries or other excavations	N/A	Dumps/sanitary landfills or mining
N/A	Unsightly land uses	N/A	Inadequate screened drainage catchments
N/A	Gas, smoke, fumes	N/A	Odors
N/A	High pressure gas or liquid petroleum transmission lines on site	N/A	Other (Specify)
<b>Explain Toxic Chemical and Contamination onsite or adjacent below:</b>			
None Noted			



### **Above Ground Storage Tanks**

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 Location	Tank Contents	Tank Size	Flammable? (Yes or No)	Pressurized? (Yes or No)
None Noted				

Proposed mitigation strategies (concrete pad, barrier, etc.) if siting of any tanks?
N/A

### **Underground Storage Tanks**

List visible tanks				
Tank Location	Tank Contents	Tank Size	Flammable? (Yes or No)	Pressurized? (Yes or No)
None Noted				

B. Blankenship

3/14/2022

Lead Investigator's Signature

Date





# ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS




## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## USGS 1993

**Legend**

 401 E Clark St



# Google Earth

Image U.S. Geological Survey

2000 ft






# St. Pauls Flood Imp.

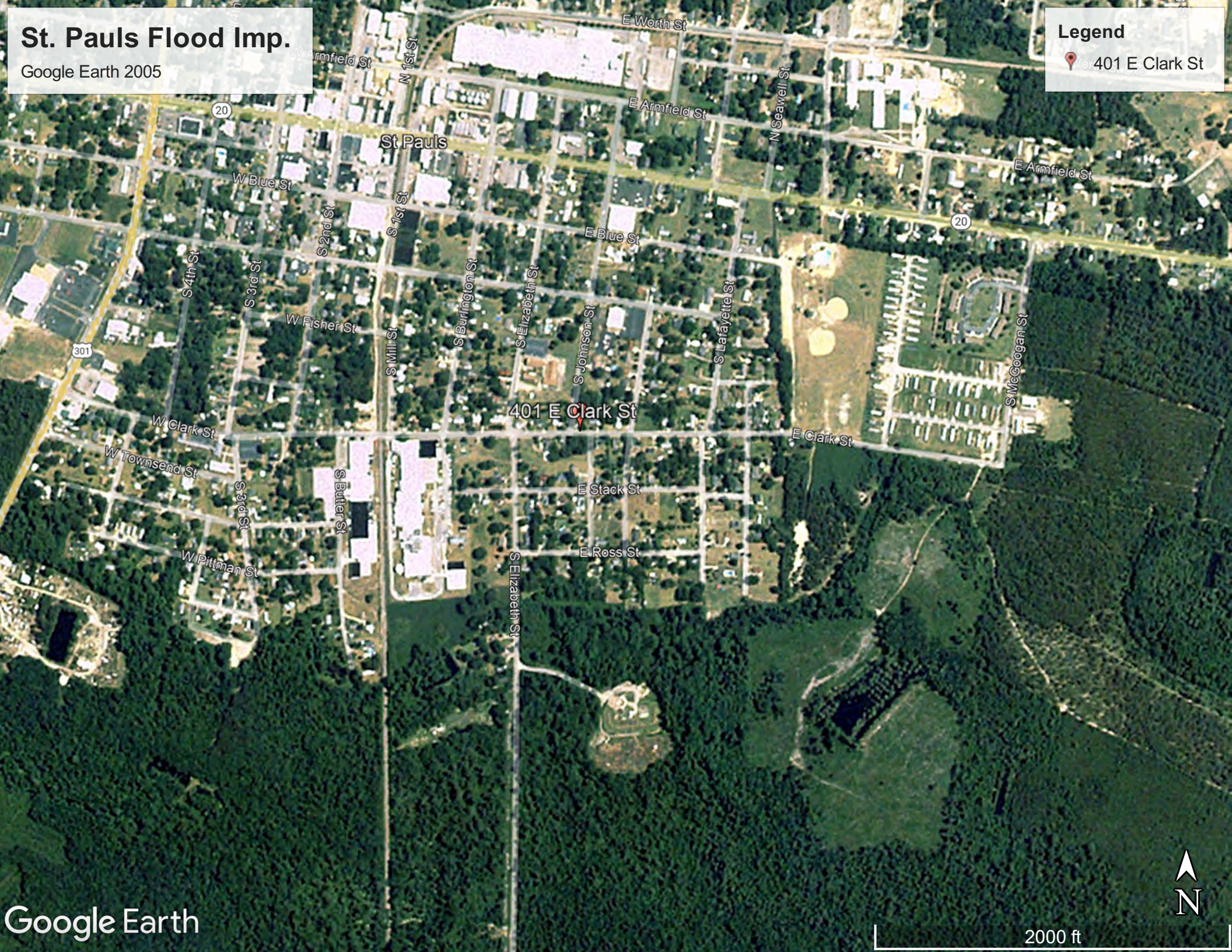
USGS 1999

## Legend

 401 E Clark St










# St. Pauls Flood Imp.

USDA 2009

Legend

 401 E Clark St



  
N


 2000 ft




# St. Pauls Flood Imp.

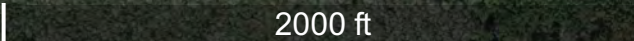
Google Earth 2016 20

Legend

 401 E Clark St



  
N

 2000 ft




# St. Pauls Flood Imp.

Google Earth 2022

20

Legend

 401 E Clark St





## **ATTACHMENT 8:**

### **Endangered Species**

USFWS Raleigh FO 10-step Project Review  
Package, USFWS , NC NHP, and NCORR  
Correspondence, and SCH Comments from  
NCWRC



## Gievers, Andrea

---

**From:** Gievers, Andrea  
**Sent:** Tuesday, March 21, 2023 12:53 PM  
**To:** Raleigh, FW4  
**Cc:** Mann, Leigh  
**Subject:** Self Certification - Town of St. Pauls Flood Improvement Project  
**Attachments:** NCORR USFWS St Pauls Flood Imp Self-cert pkg rdcd.pdf

Hello:

Please accept the Town of St. Pauls Flood Improvement Project Self-Certification Letter and supporting No Effect documentation for your records. The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds from the United States Department of Housing and Urban Development (HUD), is considering funding this Infrastructure Recovery Program project. The proposed project location is at South Johnson Street, East Clark Street, Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009; 400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101; 401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900, Robeson County, NC 28364. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure.

The proposed project will upgrade stormwater conveyance infrastructure in a southeastern residential area of St. Pauls. As designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. 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](mailto: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

March 21, 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](mailto:Raleigh@fws.gov)  
[Leigh Mann@fws.gov](mailto:Leigh_Mann@fws.gov)

RE: ESA Section 7 - Online Project Review Request  
NCORR - HUD CDBG-DR Program  
**Proposed Town of St. Pauls Flood Improvements**  
South Johnson Street, East Clark Street, Elizabeth Street; *and*  
Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009;  
400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101;  
401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and  
Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900

Dear Mr. Ellis:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, *Town of St. Pauls Flood Improvements, Robeson County, North Carolina 28384*. 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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. Therefore, funding for the

**Mailing Address:**  
Post Office Box 110465  
Durham, NC 27709



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[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

proposed project will be provided in part by the HUD CDBG-DR North Carolina Infrastructure Recovery Program for Hurricane Matthew 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 initiate review for 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 have followed all guidance and instructions in completing the review. We completed our review using online data sources on March 6, 2023, and are submitting our project review package in accordance with the instructions for further review. We have made “**No Effect**” determinations for proposed/listed species and/or proposed/designated critical habitat and a “**no Eagle Act Permit required**” determination for Bald Eagles. Please find attached the 10-step Project Review Package prepared in conjunction with McGill Associates, PA. for the proposed project in accordance with all instructions provided, using the best available information to reach our conclusions.

The St. Pauls Flood Improvements Project (proposed project) will upgrade stormwater conveyance infrastructure in a southeastern residential area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours (see Attachment). All contemplated improvements will employ mitigation and resiliency measures to prevent destruction or non-operability of the improvements after their installation. The proposed project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.

A NC Natural Heritage Program (NHP) database query report and USFWS Information for Planning and Consultation (IPaC) Official Species List were prepared for the proposed project. The USFWS IPaC Official Species List identified a total of five threatened, endangered, or candidate species and three migratory Birds of Conservation Concern (BCC) as species with the potential to occur within the vicinity of the proposed project site. The five proposed, threatened, endangered, or candidate species include the: 1) Tricolored Bat (*Perimyotis subflavus*), 2) Red-cockaded Woodpecker (*Picoides borealis*), 3) American Alligator (*Alligator mississippiensis*), 4) Monarch Butterfly (*Danaus plexippus*), and 5) Michaux's Sumac (*Rhus michauxii*). The three migratory BCC include the 1) Chimney Swift (*Chaetura pelagica*), 2) Prothonotary Warbler (*Protonotaria citrea*), and 3) Red-headed Woodpecker (*Melanerpes erythrocephalus*).

The NC NHP database query report identified one State-listed species (Blackbanded Sunfish, *Enneacanthus chaetodon*) within the proposed project area, and five State-listed species within one-mile of the proposed project area, including two dragonfly or damselfly species, one freshwater fish and two vascular plants (Coppery Emerald, *Somatochlora georgiana*; Phantom Darner, *Triacanthagyna trifida*; Blackbanded Sunfish, *Enneacanthus chaetodon*; Georgia Indigo-bush, *Amorpha georgiana*; and Carolina Sunrose, *Crocianthemum Carolinianum*). However, based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the proposed project area. Also, the NCNHP database query report identified no records for important natural communities, and/ or conservation/ managed areas within the proposed project boundary. Big Marsh Swamp is a documented natural area within one mile of the proposed project area, with an R2 (Very High) Representational Rating and C5 (General) Collective Rating. Two managed areas, both Robeson County Open Spaces, are located within one mile of the proposed project area.

The **Tricolored Bat** is proposed for listing and uses culverts year-round for habitat. The NC NHP was consulted for additional information. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, “[t]here are no documented Tricolored Bat maternity roost trees within 150 feet of this project boundary. There are no documented Tricolored Bat hibernacula within 0.25 mile of this project boundary. Individuals of this species have been mist-net captured approximately **20 miles** to the southeast of this project boundary (emphasis added).” Since the Tricolored Bat is estimated to be present approximately 20 miles from the proposed project site, a determination of “No Effect” has been made for this proposed species.

According to McGill Associates, PA (McGill), Threatened and Endangered (T&E) Species surveys to observe biological habitats and determine the likely occurrence of protected (threatened/ endangered), candidate, and proposed species within the proposed project area was completed during the wetland delineation site visit and on February 7, 2023. On February 7, 2023, environmental specialists from McGill conducted a T&E survey on the Limits of Disturbance (LOD). The survey was concentrated on the Red-cockaded Woodpecker (RCW) and Michaux's Sumac during the site survey. *No species occurrences or potential habitat were found during the survey for RCW and Michaux's Sumac. No mature pine species generally more than 80 years old found in the study area. All remaining Threatened and Endangered Species found on the USFWS IPaC Report were surveyed for and no species occurrences or potential habitat were found within the LOD.*

Based on a site visit performed by McGill, no potential **American Alligator** habitat in the form of freshwater, slow-moving rivers, swamps, marshes, or lakes was found within the proposed project area. Based on a site visit performed by McGill, no potential **Michaux's Sumac** habitat in the form of sandy or rocky open woods in association with basic soils was found within the proposed project area. Based on a site visit performed by McGill, no potential **Red-cockaded Woodpecker** habitat in the form of mature pine tree species generally more than 80-years old was found within the proposed project area. Mature pine trees were found in the vicinity of the proposed project area. No signs of cavity nests or species occurrence found during site visit. Based on online records review (NCNHP), no known populations of Red-cockaded Woodpecker were discovered within a one-mile radius of the proposed project areas. In addition, no potential habitat was found for *Wood Stork* (*Mycteria americana*) which was included on a previous IPaC for the proposed

project. As a result, McGill made a “No Effect” determination for the American Alligator, Michaux’s Sumac, and Red-cockaded Woodpecker.

The **Monarch Butterfly** has a primary food source of milkweed (*Asclepias* sp.). Big threats to milkweeds are spraying and mowing. The majority of the proposed project activities (disturbance) will take place in and along residential streets on existing culverts. These residential areas are regularly maintained by mowing. This regular mowing is expected to reduce or eliminate milkweeds and other herbs and promote faster-growing grasses. Due to the regular mowing, habitat will be considered poor to unsuitable for Monarch Butterflies. Thus, a “No Effect” determination is made for the Monarch Butterfly.

There were no **Bald Eagles** or Bald Eagle nests observed in the vicinity of the proposed project site during multiples site visits. Therefore, the proposed project is unlikely to disturb Bald Eagles and Bald Eagles’ nests and a “No Eagle Act Permit required” determination was made. It is anticipated that due to the proposed project site mostly small trees will be removed and any migratory birds in the area will temporarily leave the area during repairs and construction.

Based on preliminary discussions with the client and engineering team describing the anticipated environmental impacts and hydrography changes, McGill assumes that a general Nationwide Permit from the US Army Corps of Engineers (USACE) and a Water Quality Certification from the NC Division of Water Resources will be required for the proposed project. McGill has submitted the Preconstruction Notification for approval (see Attachment). It is McGill’s opinion that the proposed activities will result in no more than minimal individual and cumulative adverse environmental effects. These permits will be obtained, as required, prior to commencing work: USACE Nationwide Permit 3 (Maintenance) to authorize impacts to wetlands and streams and a NC Division of Water Resources (NCDWR) Section 401 Water Quality Certification. The proposed project activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions.

NCORR is submitting the above information as notification of its **No Effect** determination and requests *acknowledgement* from USFWS that they have received this determination that the proposed project would have No Effect on 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](mailto:Andrea.L.Gievers@Rebuild.NC.gov). Thank you for your time and assistance.

Sincerely,

A handwritten signature in black ink that reads "Andrea Gievers". The signature is written in a cursive, flowing style.

Andrea Gievers, JD, MSEL, ERM  
NCORR Environmental Subject Matter Expert

Attachments:



- 10-step Project Review Package (Self-certification Letter, IPaC, NC NHP Report, USFWS and NMFS Critical Habitat Maps, NC NHP Correspondence, Species Conclusion Tables, Site Visit Photographs, USACE PCN Submission)



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE



Raleigh Field Office  
P.O. Box 33726  
Raleigh, NC 27636-3726

Date: 3/21/23

### Self-Certification Letter

Project Name St. Pauls Flood Improvements

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:

- ☒ “no effect” determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- ☐ “may affect, not likely to adversely affect” determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- ☐ “may affect, likely to adversely affect” determination for the Northern long-eared bat (*Myotis septentrionalis*) and relying on the findings of the January 5, 2016, Programmatic Biological Opinion for the Final 4(d) Rule on the Northern long-eared bat;
- ☒ “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](mailto: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



## 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:  
Project Code: 2023-0025782  
Project Name: St. Pauls Flood Improvements Project

March 06, 2023

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 ECOS-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 ECOS-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:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.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/birds/policies-and-regulations.php>.

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/birds/bird-enthusiasts/threats-to-birds.php>.

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/birds/policies-and-regulations/executive-orders/e0-13186.php>.

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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
- 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

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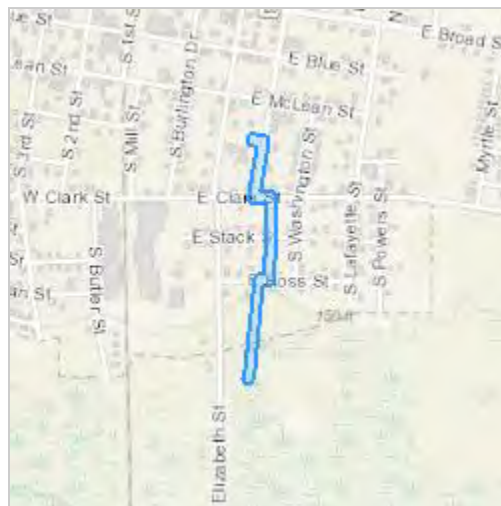
## PROJECT SUMMARY

Project Code: 2023-0025782  
Project Name: St. Pauls Flood Improvements Project  
Project Type: Culvert Repair/Replacement/Maintenance  
Project Description: South Johnson Street, East Clark Street, Elizabeth Street; and  
Parcel 1 - Parcel ID 381404009, 0.34 acre, Johnson Street (Calvary Cornerstone Holiness Church owner, LT 36, PT 37, BL51, McGeachy),  
Parcel 2 - Parcel ID 38160204101, 1.3 acres, 400 East Ross Street, St. Pauls, NC 28384,  
Parcel 3 - Parcel ID 38140401401, 0.17 acre, 401 East Clark Street, St. Pauls, NC 28384, and  
Parcel 4 - Parcel ID 30890981900, 73.92 acres, Elizabeth Street (Town of St. Pauls owner).

The St. Pauls Flood Improvements Project (proposed project) will upgrade stormwater conveyance infrastructure in a southeastern area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

### Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@34.801038399999996,-78.96776133676494,14z>



Counties: Robeson County, North Carolina

## ENDANGERED SPECIES ACT SPECIES

There is a total of 5 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<sup>1</sup>, 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.

- 
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
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

## BIRDS

NAME	STATUS
Red-cockaded Woodpecker <i>Picoides borealis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7614">https://ecos.fws.gov/ecp/species/7614</a>	Endangered

## REPTILES

NAME	STATUS
American Alligator <i>Alligator mississippiensis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/776">https://ecos.fws.gov/ecp/species/776</a>	Similarity of Appearance (Threatened)

## INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

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**FLOWERING PLANTS**

NAME	STATUS
Michaux's Sumac <i>Rhus michauxii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5217">https://ecos.fws.gov/ecp/species/5217</a>	Endangered

**CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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# MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats 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)

**The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location.** To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

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
<b>Chimney Swift <i>Chaetura pelagica</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
<b>Prothonotary Warbler <i>Protonotaria citrea</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
<b>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10

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## 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 and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

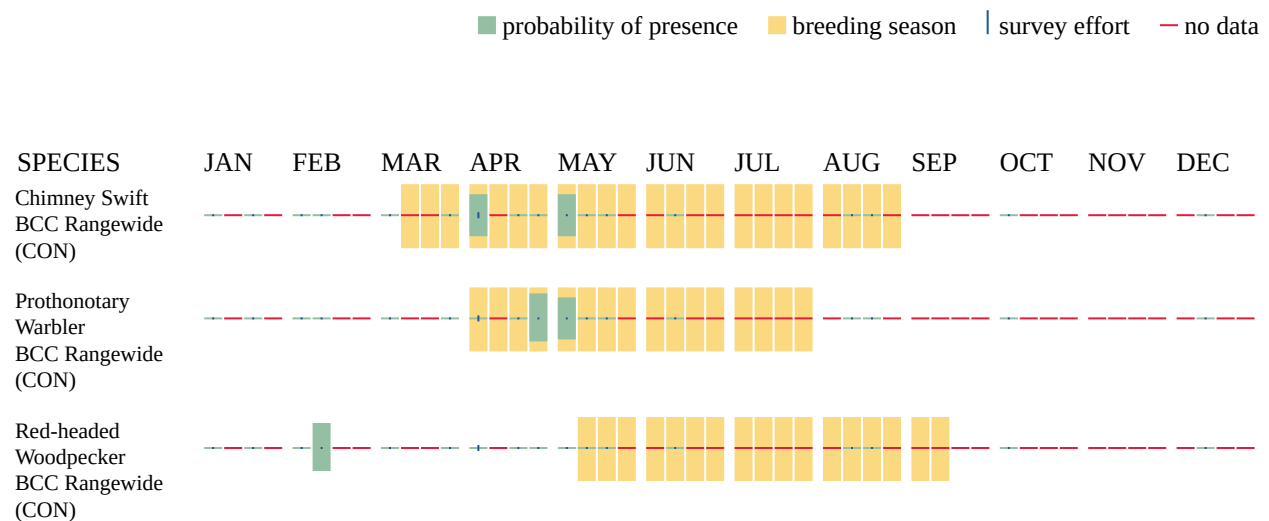
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

## MIGRATORY BIRDS FAQ

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
  2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
  3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).
-



Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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**IPAC USER CONTACT INFORMATION**

Agency: State of North Carolina  
Name: Andrea Gievers  
Address: North Carolina Office of Recovery and Resiliency (NCORR)  
Address Line 2: 200 Park Offices Drive  
City: Durham  
State: NC  
Zip: 27713  
Email: andrea.l.gievers@rebuild.nc.gov  
Phone: 8456821700

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Roy Cooper, Governor

D. Reid Wilson, Secretary

Misty Buchanan  
Deputy Director, Natural Heritage Program

NCNHDE-21154

March 6, 2023

Andrea Gievers  
NCORR  
P.O. Box 110465  
Durham, NC 27709  
RE: St. Pauls Flood Improvements Project

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.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, and/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. 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 documented within the project area or 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.

Also please note that 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 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](mailto:rodney.butler@ncdcr.gov) or 919-707-8603.

Sincerely,  
NC Natural Heritage Program

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area  
St. Pauls Flood Improvements Project  
March 6, 2023  
NCNHDE-21154

Element Occurrences Documented Within 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
Freshwater Fish	31776	Enneacanthus chaetodon	Blackbanded Sunfish	1961-08-10	H	3-Medium	---	Significantly Rare	G3G4	S3

No Natural Areas are Documented within the Project Area

No Managed Areas Documented within the Project Area

Definitions and an explanation of status designations and codes can be found at <https://ncnhde.natureserve.org/help>. Data query generated on March 6, 2023; source: NCNHP, Q4, Winter (January) 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.

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area  
St. Pauls Flood Improvements Project  
March 6, 2023  
NCNHDE-21154

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
Dragonfly or Damselfly	33769	Somatochlora georgiana	Coppery Emerald	2004-Pre	H?	5-Very Low	---	Significantly Rare	G3G4	S1?
Dragonfly or Damselfly	33789	Triacanthagyna trifida	Phantom Darner	2004-Pre	H?	5-Very Low	---	Significantly Rare	G5	SH
Freshwater Fish	31776	Enneacanthus chaetodon	Blackbanded Sunfish	1961-08-10	H	3-Medium	---	Significantly Rare	G3G4	S3
Vascular Plant	17916	Amorpha georgiana	Georgia Indigo-bush	1921-05-08	X	6-Unknown	---	Endangered	G3T2	S2
Vascular Plant	3377	Crocianthemum carolinianum	Carolina Sunrose	1958-07-17	H	4-Low	---	Endangered	G4	S1

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Big Marsh Swamp	R2 (Very High)	C5 (General)

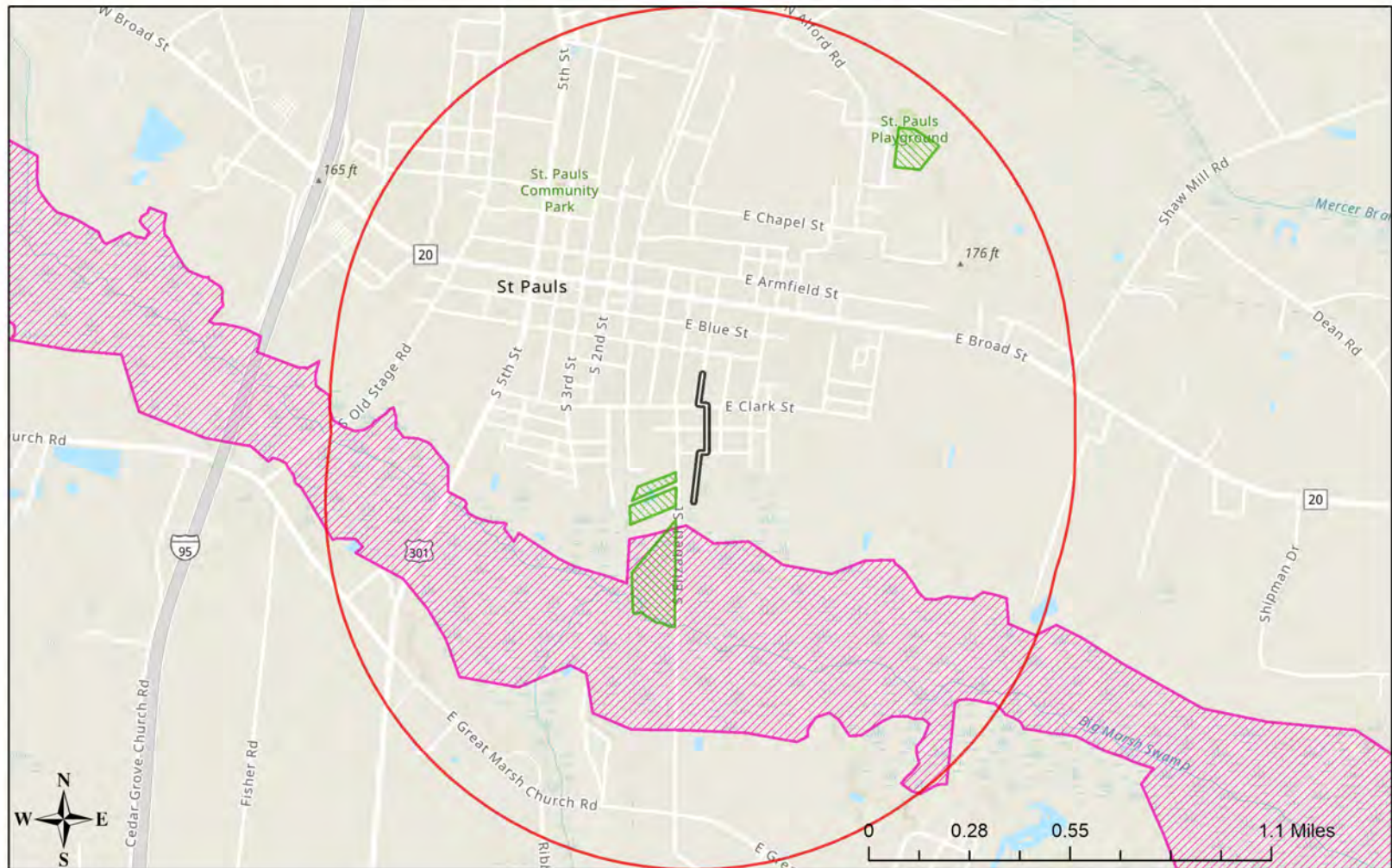
Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
Robeson County Open Space	Robeson County	Local Government
Robeson County Open Space	Robeson County	Local Government

Definitions and an explanation of status designations and codes can be found at <https://ncnhde.natureserve.org/help>. Data query generated on March 6, 2023; source: NCNHP, Q4, Winter (January) 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-21154: St. Pauls Flood Improvements Project

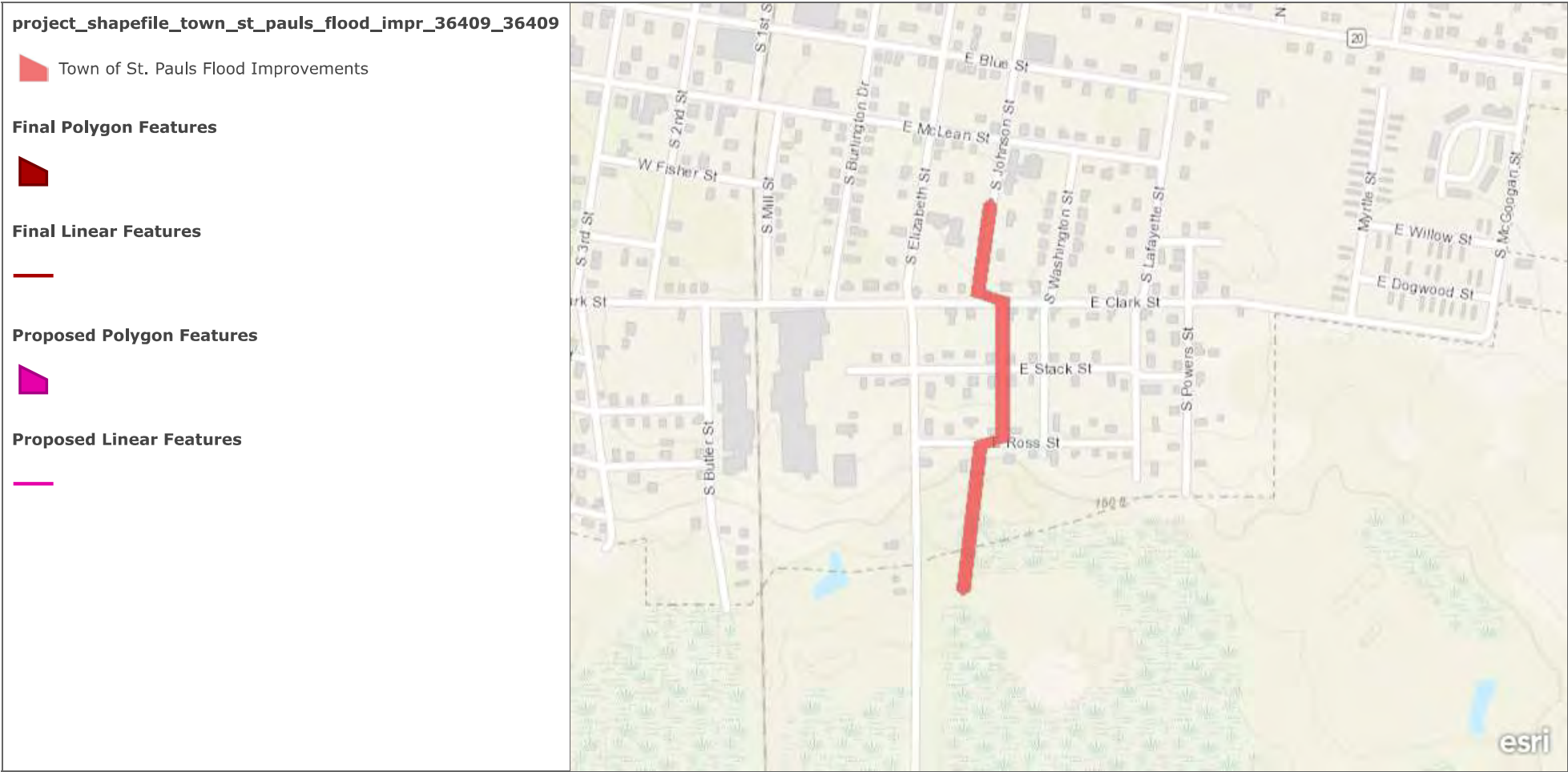


March 6, 2023

- 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

Critical Habitat for Threatened & Endangered Species [USFWS]



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.

State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

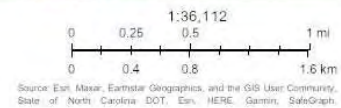




### Area of Interest (AOI) Information

Area : 10.09 km<sup>2</sup>

Mar 14 2023 6:41:29 Eastern Daylight Time



Summary

Name	Count	Area(km²)	Length(m)
All Critical Habitat Polyline	0	N/A	0
All Critical Habitat Polygon	0	0	N/A

## **NC NHP Correspondence**



## Gievers, Andrea

---

**From:** Ratcliffe, Judith  
**Sent:** Monday, March 20, 2023 9:17 AM  
**To:** Gievers, Andrea  
**Subject:** RE: TCB Review - St. Pauls Flood Improvement  
**Attachments:** project\_report\_ncorr\_st\_pauls\_flood\_improv\_43981\_43981.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good Morning Andrea,

Thank you for the opportunity to review **Town of St. Pauls Flood Improvements; South Johnson Street; East Clark Street; Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009; 400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101; 401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900.**

There are no documented Tricolored Bat maternity roost trees within 150 feet of this project boundary.  
There are no documented Tricolored Bat hibernacula within 0.25 mile of this project boundary.  
Individuals of this species have been mist-net captured approximately 20 miles to the southeast of this project boundary.

There are no documented Northern Long-eared Bat maternity roost trees within 150 feet of this project boundary.  
There are no documented Northern Long-eared Bat hibernacula within 0.25 mile of this project boundary.  
Roost trees have been documented, and Individuals of this species have been mist-net captured, approximately 27 miles to the east-southeast of this project boundary.

Sincerely,  
Judith Ratcliffe

JUDITH RATCLIFFE  
Zoologist, NC Natural Heritage Program

121 W Jones St MSC 1651 Raleigh, NC 27699  
919 707 9395 office **NEW PHONE NUMBER**



*Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.*

[Facebook](#) [Twitter](#) [Instagram](#) [YouTube](#)

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**From:** Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>  
**Sent:** Tuesday, March 14, 2023 8:41 AM

**To:** Ratcliffe, Judith <judith.ratcliffe@ncdcr.gov>

**Subject:** TCB Review - St. Pauls Flood Improvement

Hello Judy:

The North Carolina Office of Recovery and Resiliency (NCORR) as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds from the United States Department of Housing and Urban Development (HUD) is considering funding this proposed Infrastructure Recovery Program project, **Town of St. Pauls Flood Improvements** located at **South Johnson Street; East Clark Street; Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009; 400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101; 401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900**. I have attached the proposed project aerial maps, site plans, project description, site visit photos, and shapefiles to assist in your Tricolored Bat review. 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!

Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM  
Environmental SME  
Community Development  
NC Office of Recovery and Resiliency  
[Andrea.L.Gievers@Rebuild.NC.Gov](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

---

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Roy Cooper, Governor

D. Reid Wilson, Secretary

Misty Buchanan  
Deputy Director, Natural Heritage Program

NCNHDE-21310

March 20, 2023

Andrea Gievers  
NC Office of Recovery and Resiliency  
P.O. Box 110465  
Durham, NC 27709  
RE: NCORR - St. Pauls Flood Improvements

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.

A query of the NCNHP database indicates that there are records for rare species, important natural communities, natural areas, and/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. 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 documented within the project area or 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.

Also please note that 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 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](mailto:rodney.butler@ncdcr.gov) or 919-707-8603.

Sincerely,  
NC Natural Heritage Program

Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Intersecting the Project Area  
NCORR - St. Pauls Flood Improvements  
March 20, 2023  
NCNHDE-21310

Element Occurrences Documented Within 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
Freshwater Fish	31776	Enneacanthus chaetodon	Blackbanded Sunfish	1961-08-10	H	3-Medium	---	Significantly Rare	G3G4	S3

No Natural Areas are Documented within the Project Area

No Managed Areas Documented within the Project Area

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Natural Heritage Element Occurrences, Natural Areas, and Managed Areas Within a One-mile Radius of the Project Area  
 NCORR - St. Pauls Flood Improvements  
 March 20, 2023  
 NCNHDE-21310

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
Dragonfly or Damselfly	33769	Somatochlora georgiana	Coppery Emerald	2004-Pre	H?	5-Very Low	---	Significantly Rare	G3G4	S1?
Dragonfly or Damselfly	33789	Triacanthagyna trifida	Phantom Darner	2004-Pre	H?	5-Very Low	---	Significantly Rare	G5	SH
Freshwater Fish	31776	Enneacanthus chaetodon	Blackbanded Sunfish	1961-08-10	H	3-Medium	---	Significantly Rare	G3G4	S3
Vascular Plant	17916	Amorpha georgiana	Georgia Indigo-bush	1921-05-08	X	6-Unknown	---	Endangered	G3T2	S2
Vascular Plant	3377	Crocianthemum carolinianum	Carolina Sunrose	1958-07-17	H	4-Low	---	Endangered	G4	S1

Natural Areas Documented Within a One-mile Radius of the Project Area

Site Name	Representational Rating	Collective Rating
Big Marsh Swamp	R2 (Very High)	C5 (General)

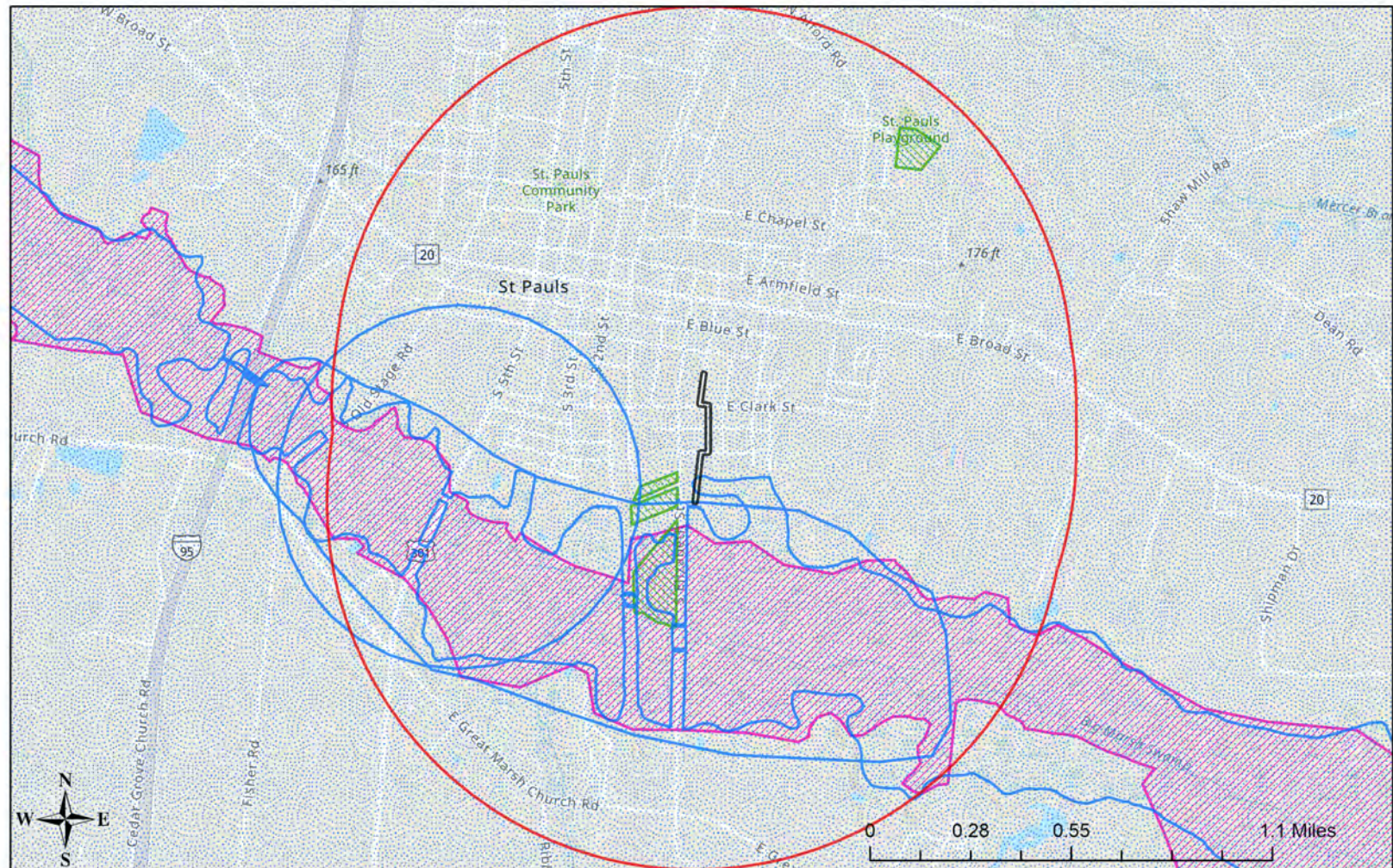
Managed Areas Documented Within a One-mile Radius of the Project Area

Managed Area Name	Owner	Owner Type
Robeson County Open Space	Robeson County	Local Government
Robeson County Open Space	Robeson County	Local Government


Definitions and an explanation of status designations and codes can be found at <https://ncnhde.natureserve.org/help>. Data query generated on March 20, 2023; source: NCNHP, Q4, Winter (January) 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-21310: NCORR - St. Pauls Flood Improvements





March 20, 2023

 NHP Natural Area (NHNA)

 Managed Area (MAREA)

 Natural Heritage Element Occurrence (NHEO)

 Buffered Project Boundary

 Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatasysteisen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community.  
Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

**Species Conclusions Table**

Project Name: \_\_\_\_\_

Date: \_\_\_\_\_

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation

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.



Signature /Title

Date

**Species Conclusions Table**Project Name: St. Pauls Flood ImprovementsDate: 3/21/23

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
Tricolored Bat	Species not present	No effect	According to NHP, TCB are present 20 miles from the site.
Monarch Butterfly	No suitable habitat present	No effect	Due to the regular mowing, habitat will be considered poor to unsuitable
Bald Eagle	Unlikely to disturb nest	Bald Eagle Act Permit not required	No Bald Eagles or Bald Eagle nests observed in the vicinity of the proposed project site during multiples site visits.

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.



Signature /Title

3/21/23

Date



# ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





# ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

April 13, 2022 Ver 4.3

Please note: fields marked with a red asterisk \* below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

### A. Processing Information

Pre-Filing Meeting Date Request was submitted on: \*

10/11/2021

If this is a courtesy copy, please fill in this with the submission date.

County (or Counties) where the project is located: \*

Robeson

Is this a NCDMS Project? \*

☐ Yes ☒ No

Click Yes, only if NCDMS is the applicant or co-applicant.

DO NOT CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.

Is this project a public transportation project? \*

☐ Yes ☒ No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

1a. Type(s) of approval sought from the Corps: \*

- ☒ Section 404 Permit (wetlands, streams and waters, Clean Water Act)  
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted? \*

☐ Yes  
☒ No

1b. What type(s) of permit(s) do you wish to seek authorization? \*

- ☒ Nationwide Permit (NWP)  
☐ Regional General Permit (RGP)  
☐ Standard (IP)

1c. Has the NWP or GP number been verified by the Corps? \*

☐ Yes ☒ No

Nationwide Permit (NWP) Number:

14 - Linear transportation

Nationwide Permit (NWP) Number:

18 - Minor Discharges

NWP Numbers (for multiple NWPS):

NWP 14 - Linear Transportation and NWP - 18 Minor Discharges

List all NW numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR: \*

check all that apply

- |  |  |
|--|--|
| <input type="checkbox"/> 401 Water Quality Certification - Regular             | <input type="checkbox"/> 401 Water Quality Certification - Express |
| <input type="checkbox"/> Non-404 Jurisdictional General Permit                 | <input type="checkbox"/> Riparian Buffer Authorization             |
| <input checked="" type="checkbox"/> Individual 401 Water Quality Certification |  |

1e. Is this notification solely for the record because written approval is not required?

\*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

1f. Is this an after-the-fact permit application? \*

☐ Yes ☒ No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

☐ Yes ☒ No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? \*

☐ Yes ☒ No

1j. Is the project located in a designated trout watershed? \*

☐ Yes ☒ No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

## B. Applicant Information



1a. Who is the Primary Contact? \*

Jon Swaim

1b. Primary Contact Email: \*

jon.swaim@mcgillassociates.com

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(828)328-2024

1d. Who is applying for the permit? \*

☒ Owner  
(Check all that apply)

☐ Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? \*

☒ Yes ☐ No

### 2. Owner Information

2a. Name(s) on recorded deed: \*

Town of St Pauls

2b. Deed book and page no.:

N/A - Utility Easement

2c. Contact Person:

(for Corporations)

Elbert Gibson - Mayor

2d. Address \*

Street Address

210 W. Blue Street

Address Line 2

City

St. Pauls

Postal / Zip Code

28384

State / Province / Region

North Carolina

Country

United States

2e. Telephone Number: \*

(xxx)xxx-xxxx

(910)865-5165

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

debra@stpaulsnc.gov

### 4. Agent/Consultant (if applicable)

4a. Name: \*

Jon Swaim

4b. Business Name:

(if applicable)

McGill Associates, P.A.

#### 4c. Address \*

Street Address

1240 19th Street Lane NW

Address Line 2

City

Hickory

Postal / Zip Code

28601

State / Province / Region

North Carolina

Country

United States

#### 4d. Telephone Number: \*

(828)328-2024

(xxx)xxx-xxxx

#### 4e. Fax Number:

(xxx)xxx-xxxx

#### 4f. Email Address: \*

jon.swaim@mcgillassociates.com

## C. Project Information and Prior Project History

### 1. Project Information

#### 1a. Name of project: \*

Elizabeth-Johnson Street Storm Drainage Improvements

#### 1b. Subdivision name:

(if appropriate)

N/A

#### 1c. Nearest municipality / town: \*

St.Pauls

### 2. Project Identification

#### 2a. Property Identification Number:

(tax PIN or parcel ID)

N/A - Utility Easement/030890981900

#### 2b. Property size:

(in acres)

4.03

#### 2c. Project Address

Street Address

No Assigned Address (Project Coordinates: 34.7989°, -78.9681°)

Address Line 2

City

St. Pauls

Postal / Zip Code

28384

State / Province / Region

North Carolina

Country

United States

#### 2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

#### Latitude: \*

34.7989

ex: 34.208504

#### Longitude: \*

-78.9681

-77.796371

## 3. Surface Waters

#### 3a. Name of the nearest body of water to proposed project: \*

Big Marsh Swamp

#### 3b. Water Resources Classification of nearest receiving water: \*

C;Sw

[Surface Water Lookup](#)

#### 3c. What river basin(s) is your project located in? \*

Lumber

#### 3d. Please provide the 12-digit HUC in which the project is located. \*

030402030604

[River Basin Lookup](#)

## 4. Project Description and History

**4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: \***

The proposed improvements consist of the design and construction of a new storm drainage system including the installation of approximately 1,800 linear feet of 48-inch reinforced concrete pipe with inlet boxes and related appurtenances from the flood-prone area to an outlet near Big Marsh Swamp. The new pipes would be installed primarily within the Town's right-of-way, easements, St Paul WWTP access road, and properties of South Johnson Street, East Clark Street, and East Ross Street to outfall in the wetland within the Town property (Parcel ID 030890981900). Adjoining areas consist of residential properties, St. Pauls WWTP, and undeveloped land.

**4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? \***

☐ Yes ☒ No ☐ Unknown

**4f. List the total estimated acreage of all existing wetlands on the property:**

3.123

**4g. List the total estimated linear feet of all existing streams on the property:**

(intermittent and perennial)

N/A

**4h. Explain the purpose of the proposed project: \***

The proposed activity is a Flood and Drainage Improvements project under the Community Recovery Program to reduce flooding and the resulting property damage in the Town of St. Pauls.

**4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: \***

Majority of new pipes to be installed primarily within the Town's right-of-way, easements, and properties of South Johnson Street, East Clark Street, and East Ross Street within existing road shoulders and upland areas. See plan sheets C-10 through C-14.

Project work at the Town of St. Pauls WWTP Property under a Nationwide Permit #14:

Replacement of existing 24" RCP with two 24" RCP to allow for additional flow during storm events under the gravel access road to the St. Pauls WWTP. The two 24" RCP will be installed as close as possible to the existing 24" RCP. The culverts outlets will be armored with 18" Class B Riprap Apron to prevent erosion. See Appendix 2 - Plans Set - C-16. The proposed permanent impacts (Impact W4) are approximately 0.0027 Acres resulting from the Riprap Apron. All temporary impacts (Impact W3 - 0.0127 Acres) for the installation of the two 24" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

Project work at the Town owned 20' Utility Easement under a Nationwide Permit #18:

The proposed project calls for two 36" RCP approximately 244 LF in length to be installed within the 20' Utility Easement as shown on Appendix 2 - Plans Set - C-15. The culvert outlets will be armored with 18" Class B Riprap Apron. The proposed permanent impacts (Impact W2) are approximately 0.0686 Acres resulting from the 20' Utility Row that will be cleared and maintained permanently and the Riprap Apron. All temporary impacts (Impact W1 - 0.0436 Acres) for the installation of the two 36" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization.

In order to ensure that stormwater is adequately drained from the surrounding area which is prone to flooding, the two proposed 36" RCP must extend into Wetland A. Alternatives were explored to avoid wetland impacts, but adequate fall was not achievable without the proposed wetland impacts. The Class B Riprap Apron was designed to prevent washout at the culvert outlet. Project was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. No surface water was noted within the project area during site visits. Groundwater was estimated at 6-inches below natural grade. Estimated fill below ordinary high water totals 597.6 cubic feet or 22.1 cubic yards.

No indirect impacts are anticipated for the proposed project.

It is anticipated typical road construction equipment will be used for the project which might include excavators, bulldozers, frontend loaders, skid steers, and dump trucks.

## 5. Jurisdictional Determinations

**5a. Have the wetlands or streams been delineated on the property or proposed impact areas? \***

☒ Yes ☐ No ☐ Unknown

**Comments:**

See Appendix 5 - Preliminary Jurisdictional Determination

**5b. If the Corps made a jurisdictional determination, what type of determination was made? \***

☐ Preliminary ☐ Approved ☒ Not Verified ☐ Unknown ☐ N/A

**Corps AID Number:**

Example: SAW-2017-99999

N/A

**5c. If 5a is yes, who delineated the jurisdictional areas?**

Name (if known): Jonathan Herman/Jon Swaim

Agency/Consultant Company: McGill Associates, P.A.

Other: 10/13/2021 & 2/7/2023

## 6. Future Project Plans

**6a. Is this a phased project? \***

☐ Yes ☒ No



Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

N/A

## D. Proposed Impacts Inventory

### 1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

- ☒ Wetlands
- ☐ Streams-tributaries
- ☐ Buffers
- ☐ Open Waters
- ☐ Pond Construction

### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site # <sup>*</sup> (?)	2a1 Reason <sup>*</sup> (?)	2b. Impact type <sup>*</sup> (?)	2c. Type of W. <sup>*</sup>	2d. W. name <sup>*</sup>	2e. Forested <sup>*</sup>	2f. Type of Jurisdiction <sup>*</sup> (?)	2g. Impact area <sup>*</sup>
W1	Construction Access	T	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.044 (acres)
W2	Culvert/ Riprap Apron/ 20' Maintained Utility ROW	P	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.069 (acres)
W3	Construction Access	T	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.013 (acres)
W4	Rip Rap Apron	P	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.003 (acres)

2g. Total Temporary Wetland Impact

0.057

2g. Total Permanent Wetland Impact

0.072

2g. Total Wetland Impact

0.129

2i. Comments:

See Appendix 1 - Impacts Map for approximate impacts.

## E. Impact Justification and Mitigation

### 1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: <sup>\*</sup>

Project designed to minimize wetland impacts as much as practical. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: <sup>\*</sup>

Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

- ☐ Yes
- ☒ No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The project does not exceed thresholds requiring compensatory mitigation for Nationwide Permit 14/18.

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

## F. Stormwater Management and Diffuse Flow Plan (required by DWR)

\*\*\* Recent changes to the stormwater rules have required updates to this section .\*\*\*

### 1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

☐ Yes ☒ No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules.

## 2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? \*

☐ Yes ☒ No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)? \*

☒ Yes ☐ No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

Comments:

## G. Supplementary Information



### 1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? \*

☒ Yes ☐ No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? \*

☒ Yes ☐ No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) \*

☐ Yes ☒ No

Comments: \*

Project is currently under environmental review as a Flood and Drainage Improvements project under the Community Recovery Program.

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? \*

☐ Yes ☒ No

### 3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? \*

☐ Yes ☒ No

3b. If you answered "no," provide a short narrative description.

No additional development anticipated as a result of the proposed work.

### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? \*

☐ Yes ☒ No ☐ N/A

### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? \*

☐ Yes ☒ No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \*

☒ Yes ☐ No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? \*

☐ Yes ☒ No ☐ Unknown

5e. Is this a DOT project located within Division's 1-8? \*

☐ Yes ☒ No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.?<sup>\*</sup>

☒ Yes ☐ No

5g. Does this project involve bridge maintenance or removal?<sup>\*</sup>

☐ Yes ☒ No

Link to the NLEB SLOPES document: [http://saw-reg.usace.army.mil/NLEB/1-30-17-signed\\_NLEB-SLOPES&apps.pdf](http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf)

5h. Does this project involve the construction/installation of a wind turbine(s)?<sup>\*</sup>

☐ Yes ☒ No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?<sup>\*</sup>

☐ Yes ☒ No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?<sup>\*</sup>

USFWS Information for Planning and Consultation tool (see Appendix 4)

On February 7, 2023 environmental specialists from McGill Associates, P.A. conducted a Threatened and Endangered Species survey on the Limits of Disturbance (LOD). The survey was concentrated on the Red-cockaded Woodpecker (RCW) and Michaux's Sumac during the site survey. No species occurrences or potential habitat were found during the survey for RCW and Michaux's Sumac. No mature pine species generally more than 80 years old found in the study area. All remaining Threatened and Endangered Species found on the USFWS IPAC Report were surveyed for and no species occurrences or potential habitat were found within the LOD.

## 6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat?<sup>\*</sup>

☐ Yes ☒ No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat?<sup>\*</sup>

NOAA Essential Fish Habitat Mapper

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpoweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?<sup>\*</sup>

☐ Yes ☒ No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources?<sup>\*</sup>

NC Historic Preservation Office HPOWEB

See Appendix 3 - NCHPO HPOWEB Map

## 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain?<sup>\*</sup>

☒ Yes ☐ No

8b. If yes, explain how project meets FEMA requirements:

All appropriate floodplain development permits will be acquired prior to construction.

8c. What source(s) did you use to make the floodplain determination?<sup>\*</sup>

<https://fris.nc.gov>

## Miscellaneous

### Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

[Click the upload button or drag and drop files here to attach document](#)

Final Appendices.pdf

36.11MB

File must be PDF or KMZ

## Signature

<sup>\*</sup>

☒ By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;

- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

**Full Name: \***

Jon Swaim

**Signature \***

A handwritten signature in cursive script that reads "Jon Swaim". The signature is written in black ink on a light gray rectangular background.

**Date**

2/13/2023

## **APPENDICES**

- 1. Impacts Map**
- 2. Plans Set**
- 3. NCHPO HPOWEB Map**
- 4. IPAC Consultation Package**
- 5. Preliminary Jurisdictional Determination (PJD)**

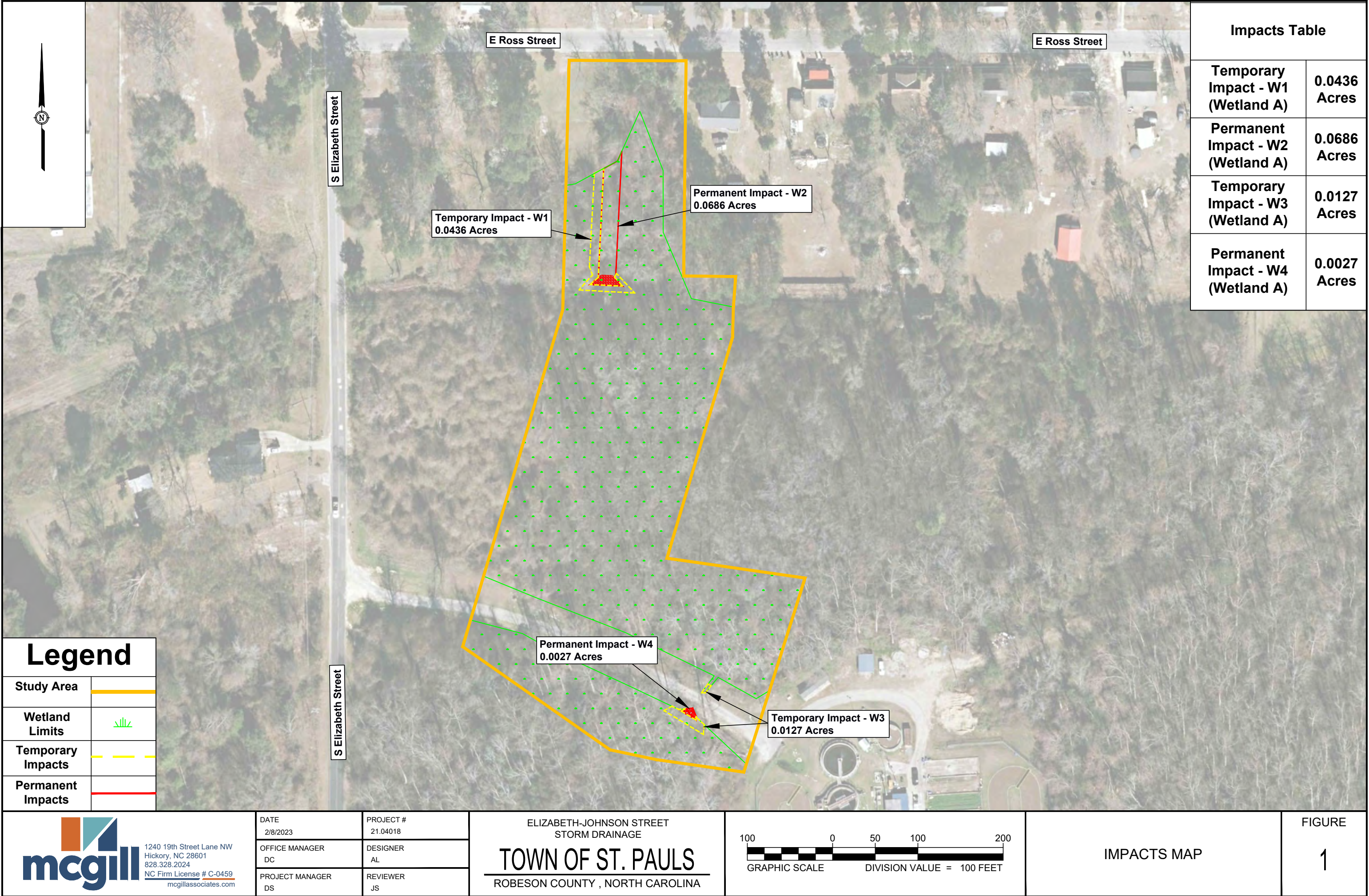


## **APPENDIX 1**

### **Impacts Map**



P:\2021\21.04018-STPAULS-NC-ELIZABETH-STREET STORM DRAINAGE\DESIGN\PERMITS\404-40\1PCN\IMPACTS MAP\_2\_7\_2023.DWG PLOT DATE 2/8/2023 10:02 AM ALEX LOWDERMILK



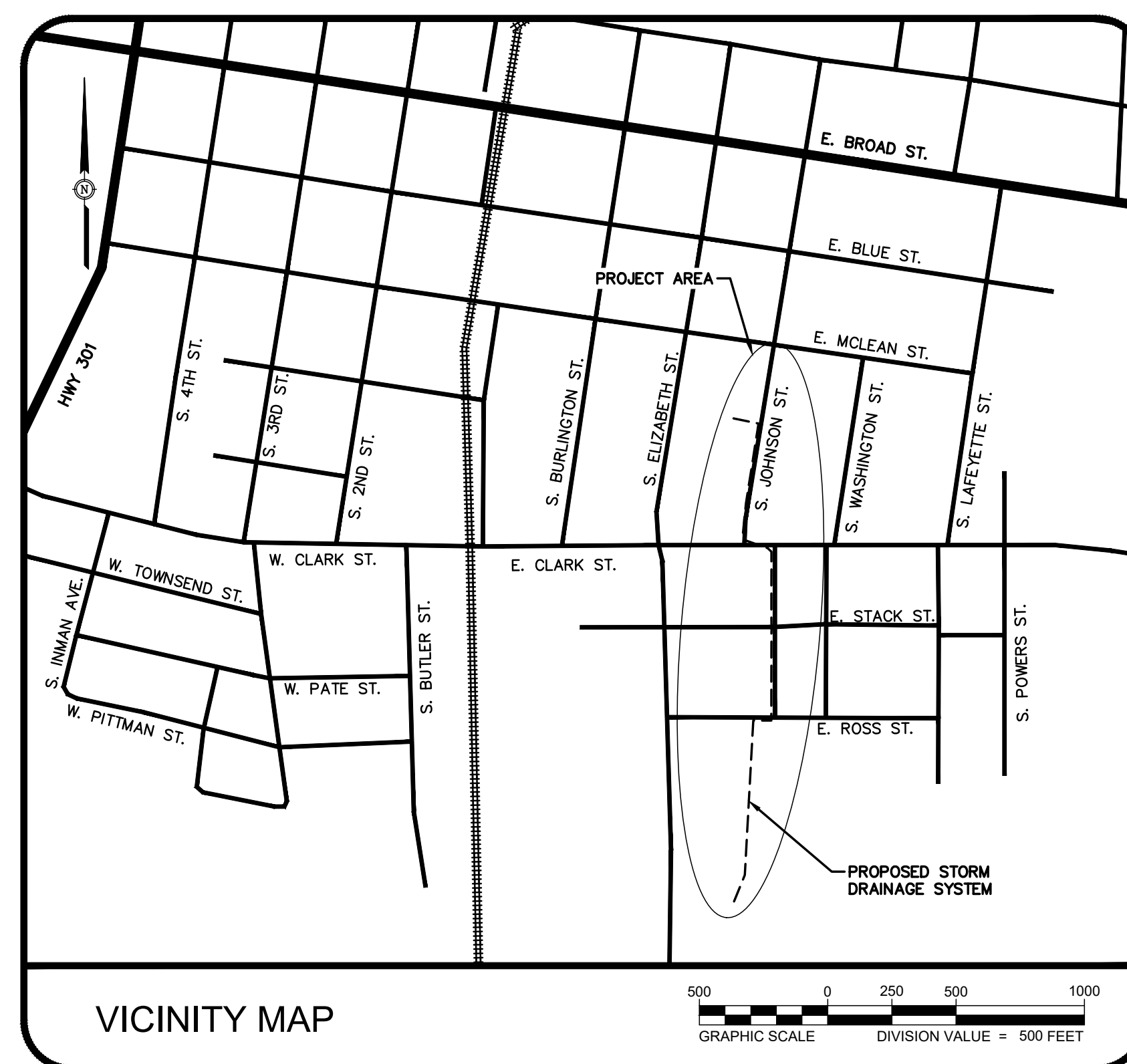


## **APPENDIX 2**

### **Plans Set**

# ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS

## ROBESON COUNTY, NORTH CAROLINA



### SCHEDULE OF DRAWINGS

- G-01 Cover
- G-02 Notes & Legend
- G-03 NCDEQ General Permit Notes
- G-04 NCDEQ General Permit Notes
- CE-01 Existing Conditions 1 of 4
- CE-02 Existing Conditions 2 of 4
- CE-03 Existing Conditions 3 of 4
- CE-04 Existing Conditions 4 of 4
- C-10 Proposed Plan and Profile S. Johnson St. Sta. 0+00-5+50
- C-11 Proposed Plan and Profile E. Clark St. Sta. 6+00-7+50
- C-12 Proposed Plan and Profile S. Johnson St. Sta. 8+00-12+00
- C-13 Proposed Plan and Profile S. Johnson St. Sta. 12+00-15+00
- C-14 Proposed Plan and Profile E. Ross St. Sta. 15+00-16+50
- C-15 Proposed Plan and Profile Sta. 17+00-22+00
- C-16 Proposed Plan and Profile Sta. 22+00-25+50
- C-17 Overview of Wetland Impacts Sta. 17+00-25+50
- C-20 Cross Sections Sta. 17+50-20+00
- C-30 Erosion Control Details 1 of 2
- C-31 Erosion Control Detail 2 of 2
- C-32 Miscellaneous Details 1 of 2
- C-33 Miscellaneous Details 2 of 2



## ABBREVIATIONS



Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQP) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HPQ Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HPQ Zones -10 days for Falls Lake Watershed unless there is zero slope

## GROUND STABILIZATION SPECIFICATION

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>• Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>• Hydroseeding</li> <li>• Rolled erosion control products with or without temporary grass seed</li> <li>• Appropriately applied straw or other mulch</li> <li>• Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>• Geotextile fabrics such as permanent soil reinforcement matting</li> <li>• Hydroseeding</li> <li>• Shrubs or other permanent plantings covered with mulch</li> <li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>• Structural methods such as concrete, asphalt or retaining walls</li> <li>• Rolled erosion control products with grass seed</li> </ul>

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

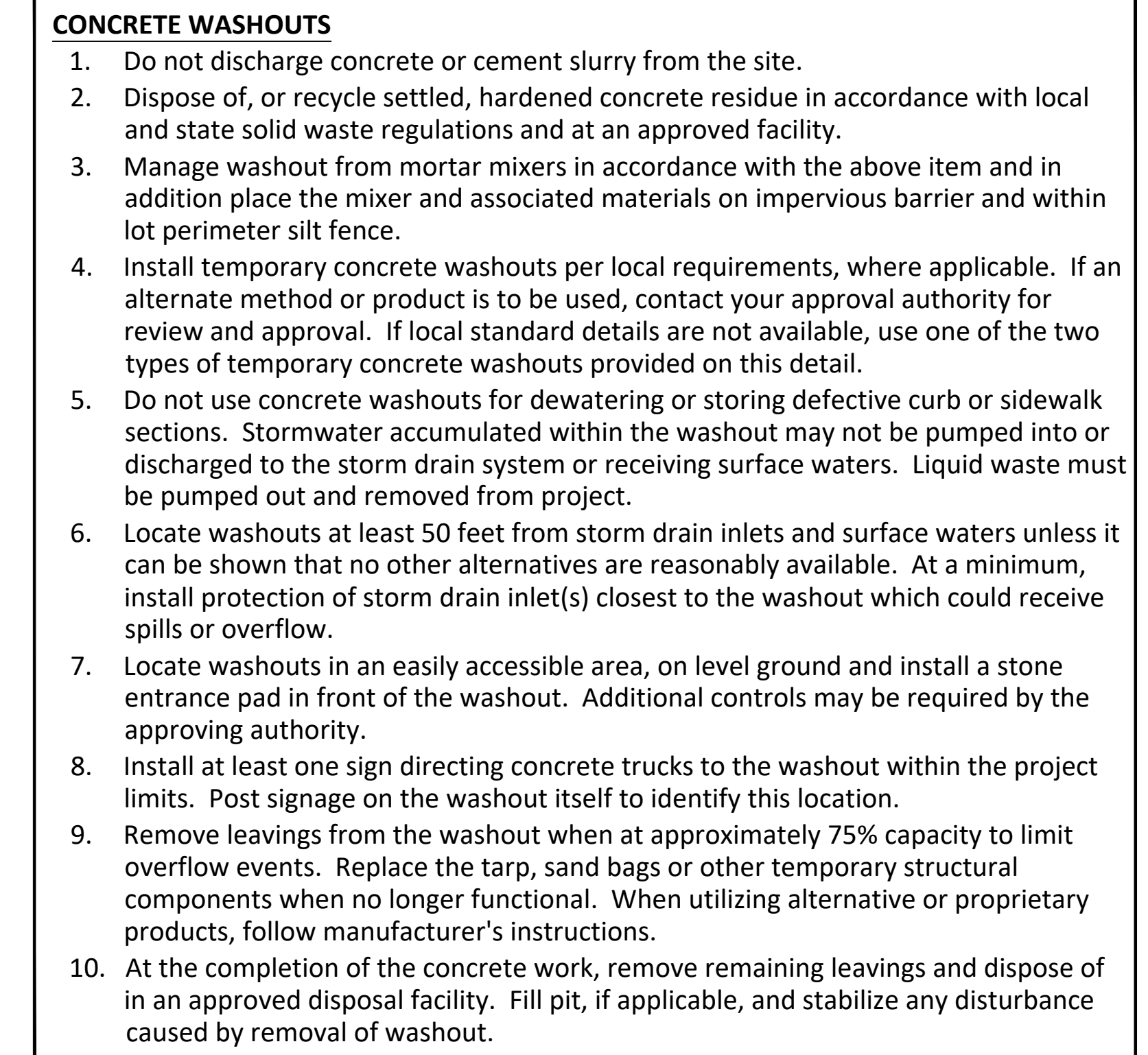
1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

## EFFECTIVE: 04/01/19

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



P:\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET DRAINAGE IMPROVEMENTS\NCDEQ GENERAL PERMIT NOTES DWG PLOT DATE: 1/19/2023 12:37 PM KALIA BEESLEY

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
- They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).

- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

- (b) Anticipated bypasses and unanticipated bypasses.

- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

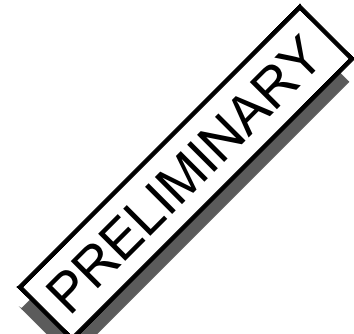
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li><li>If the stream is named on the <a href="#">NC 303(d) list</a> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li></ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li></ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li><b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li></ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li></ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6).</li><li>Division staff may waive the requirement for a written report on a case-by-case basis.</li></ul>

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NOT TO SCALE		NCDEQ GENERAL PERMIT NOTES		
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT			
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH	DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET

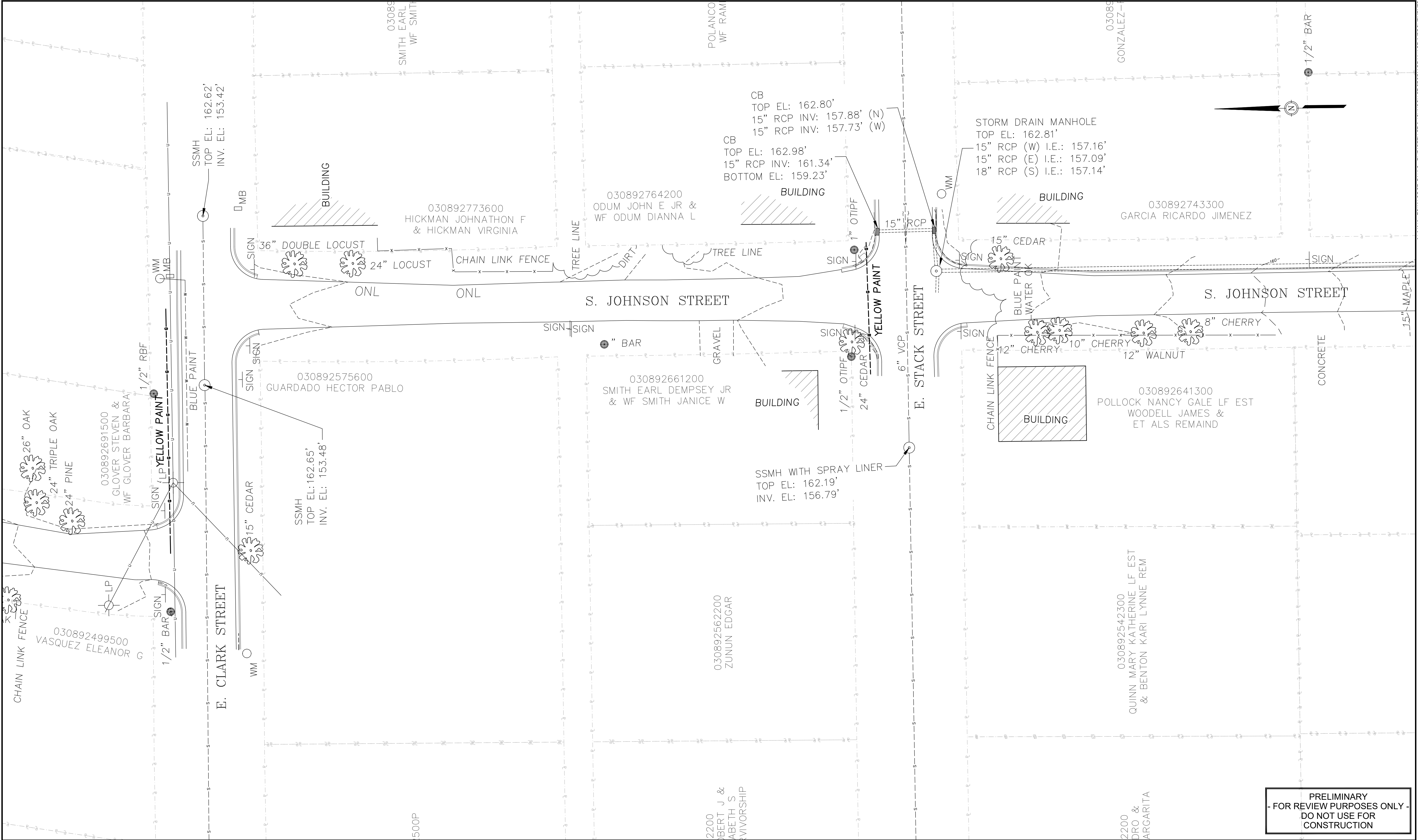
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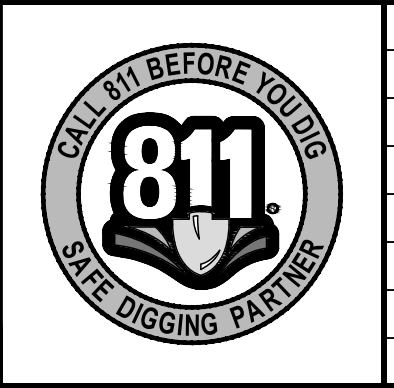
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mcgillassociates.com

PRELIMINARY



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS

TOWN OF ST. PAULS

ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE DIVISION VALUE = 20 FEET	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

EXISTING CONDITIONS 2 OF 4		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET  
CE-02

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS

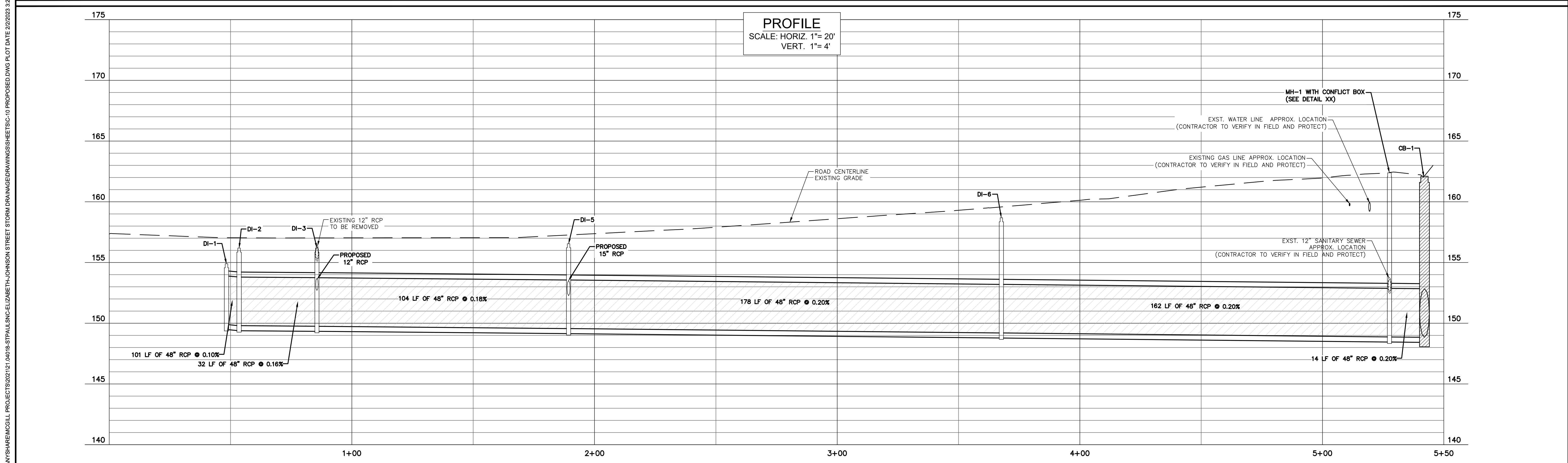
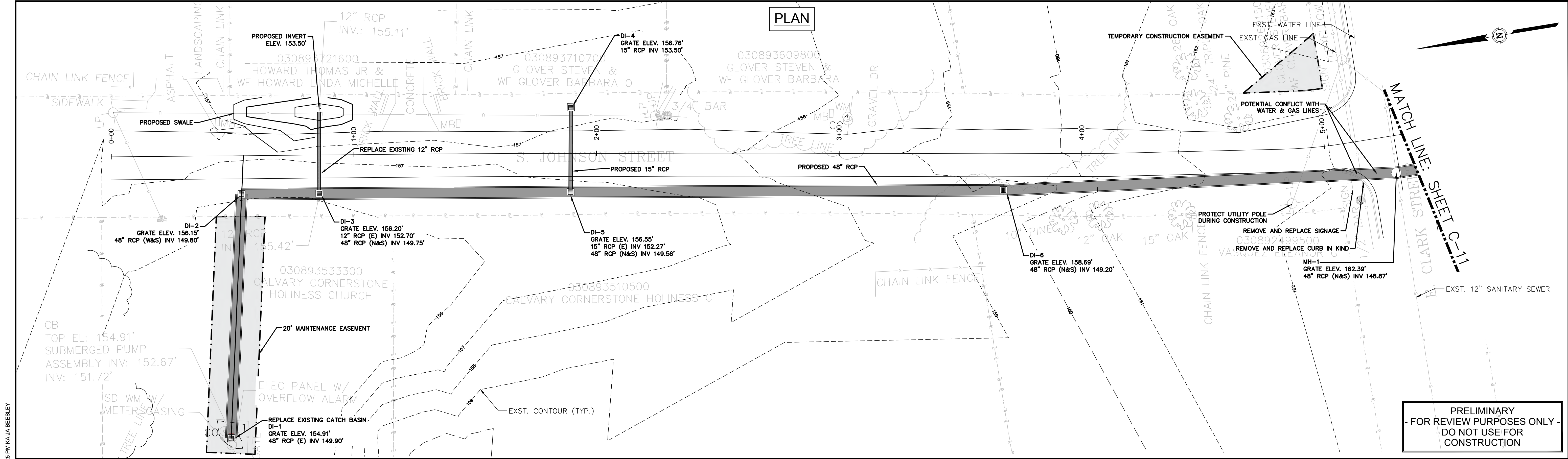
SHEET


CE-03



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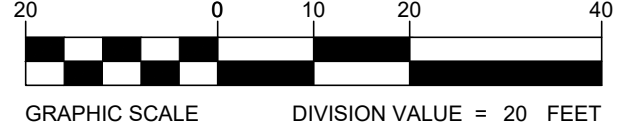
PRELIMINARY



CALL 811 BEFORE YOU DIG

NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



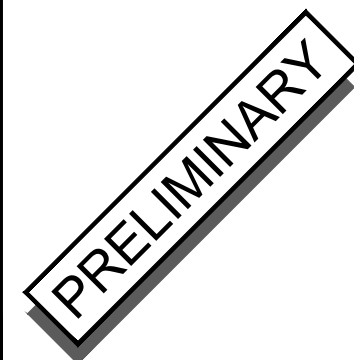
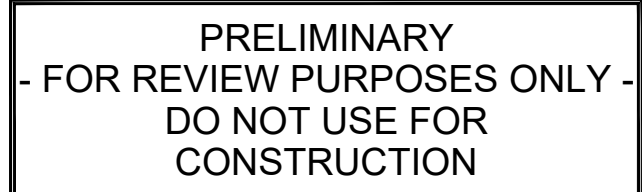
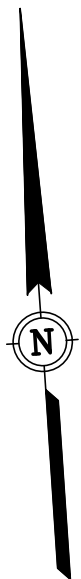
GRAPHIC SCALE DIVISION VALUE = 20 FEET

OFFICE MANAGER	DESIGNER
B. ROARK	C. HEATHCOAT
PROJECT MANAGER	REVIEWER
D. SABEH	D. SABEH

PROPOSED PLAN AND PROFILE S.  
JOHNSON ST. STA. 0+00-5+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET  
**C-10**

[illegible]

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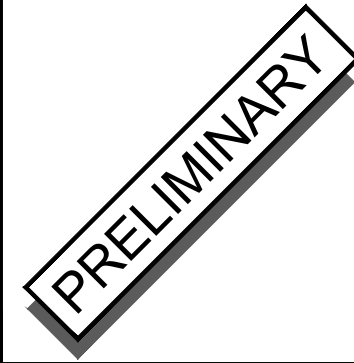
DIVISION VALUE = 20 FEET

DATE	PROJECT #	FUNDING #
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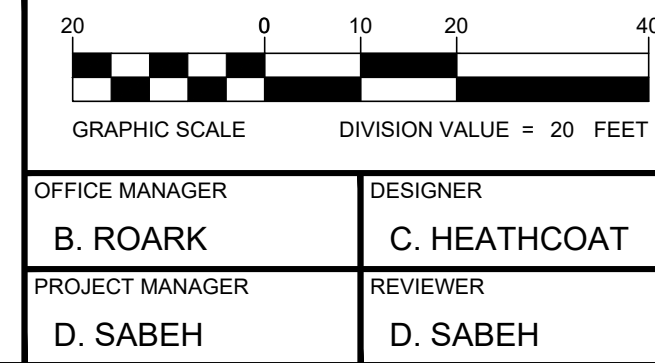
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C-11



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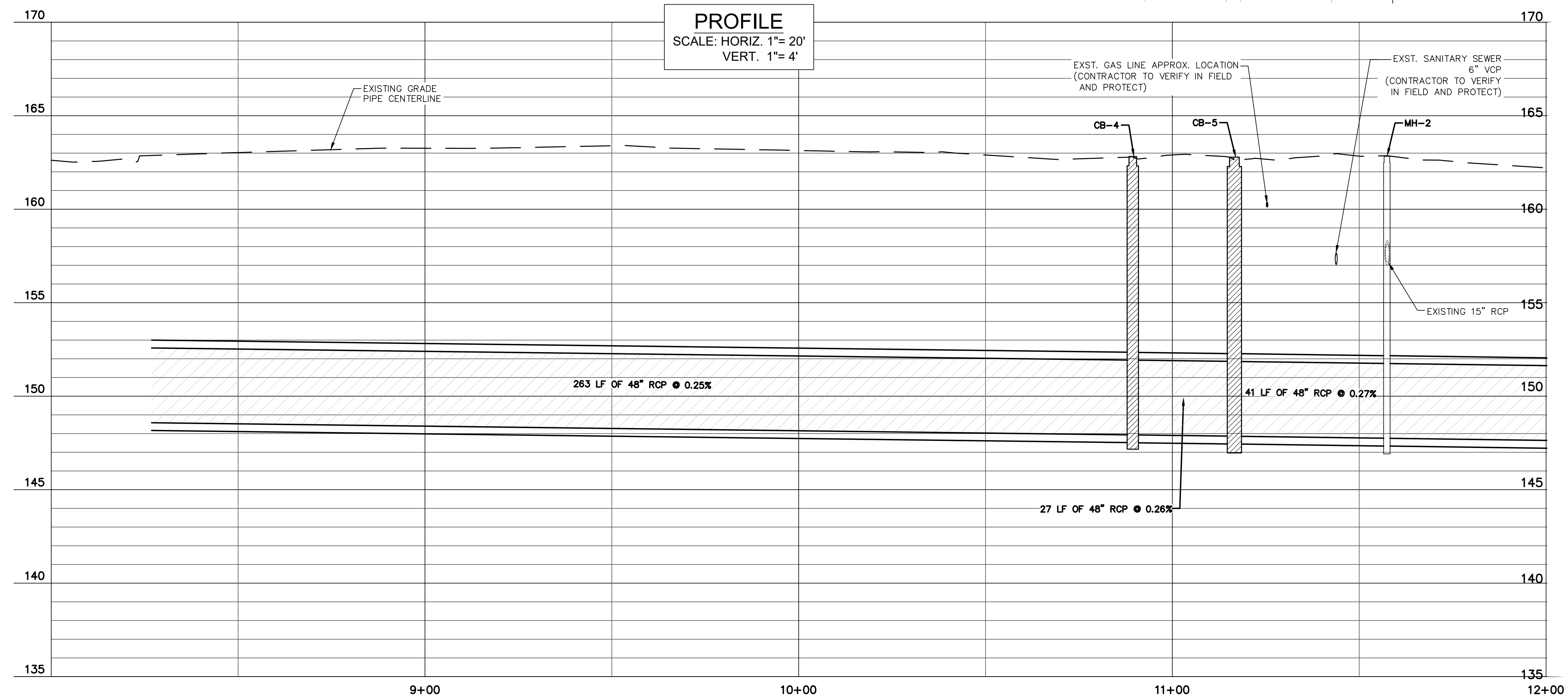
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STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



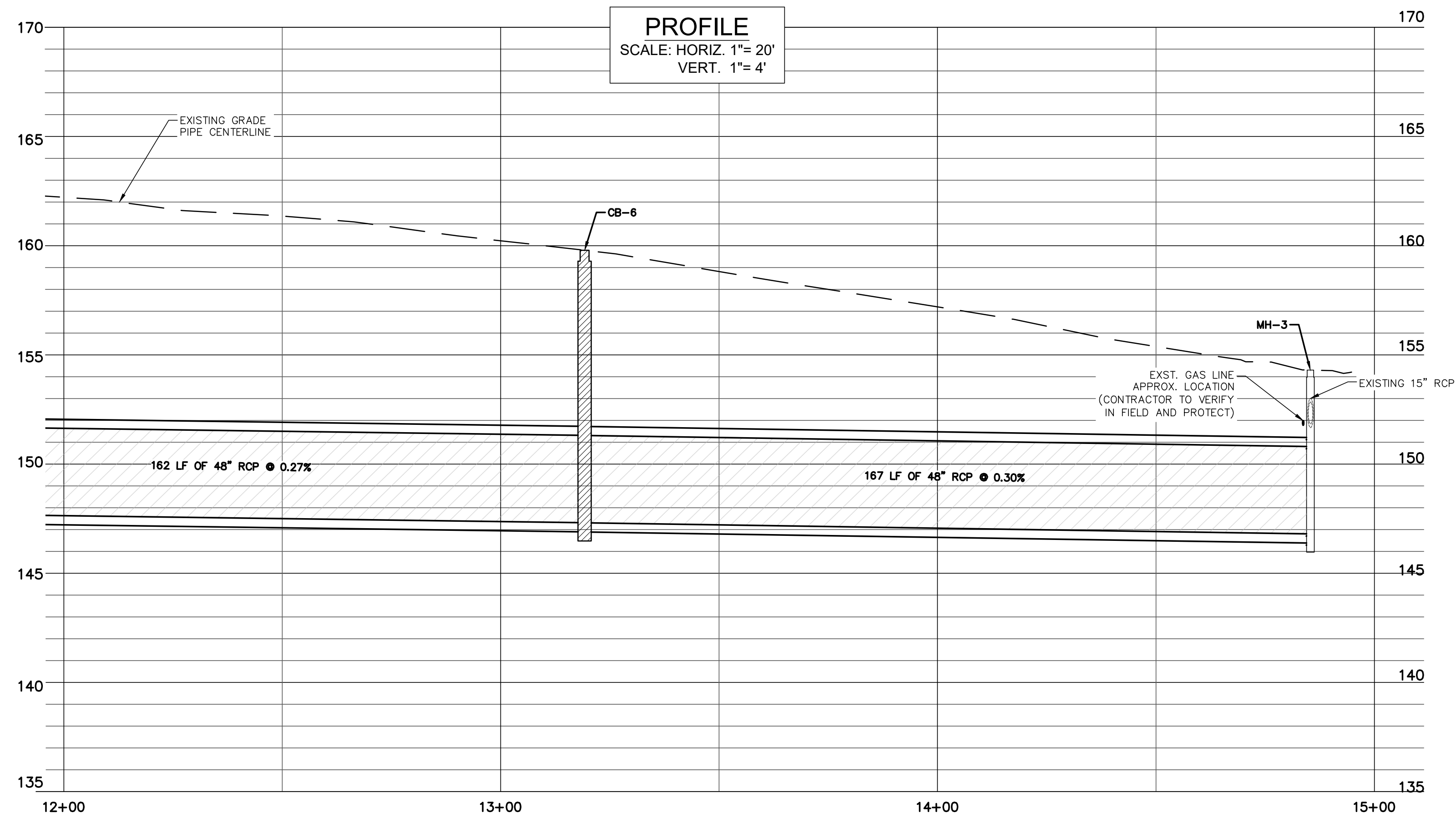
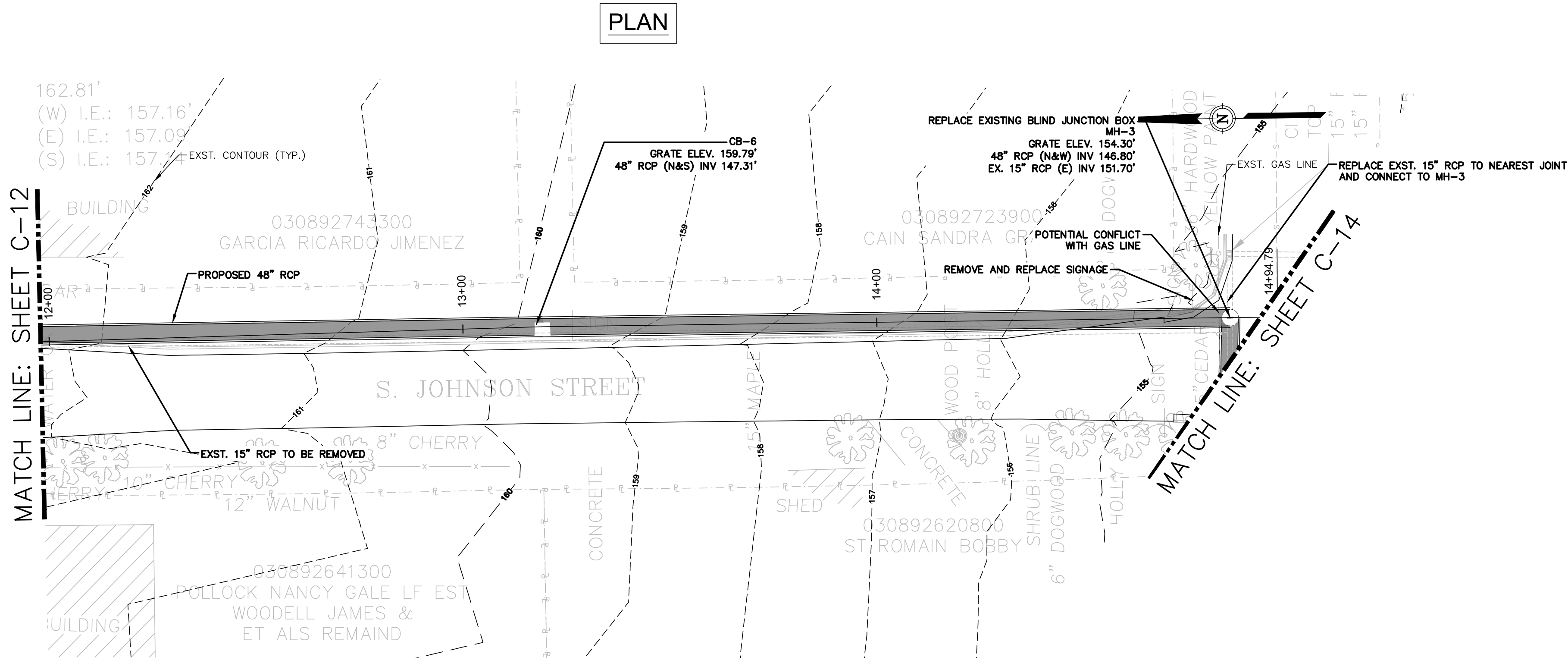
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JOHNSON ST. STA. 8+00-12+00

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET  
 C-12



V:\MCGILL\ENGINEERS\COMPCOMPANYSHARE\MCGILL PROJECTS\2021\21.04018-STPAULS-ELIZABETH+JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\C-10 PROPOSED DWG PLOT DATE 2/22/2023 3:31 PM KALIA BEESLEY



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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

20 0 10 20 40 GRAPHIC SCALE DIVISION VALUE = 20 FEET	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

PROPOSED PLAN AND PROFILE S. ST. STA. 12+00-15+00		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

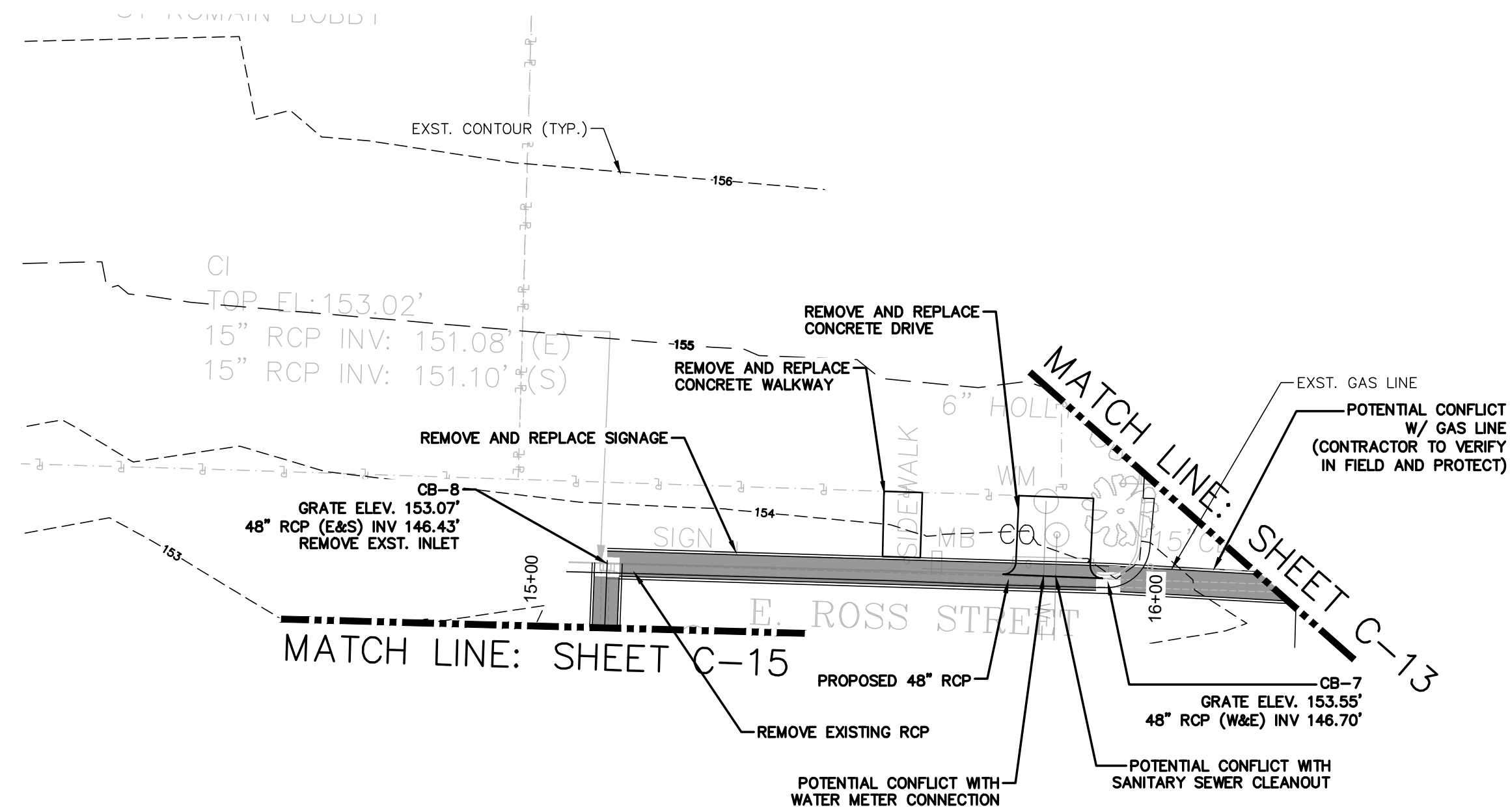
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**C-13**

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS



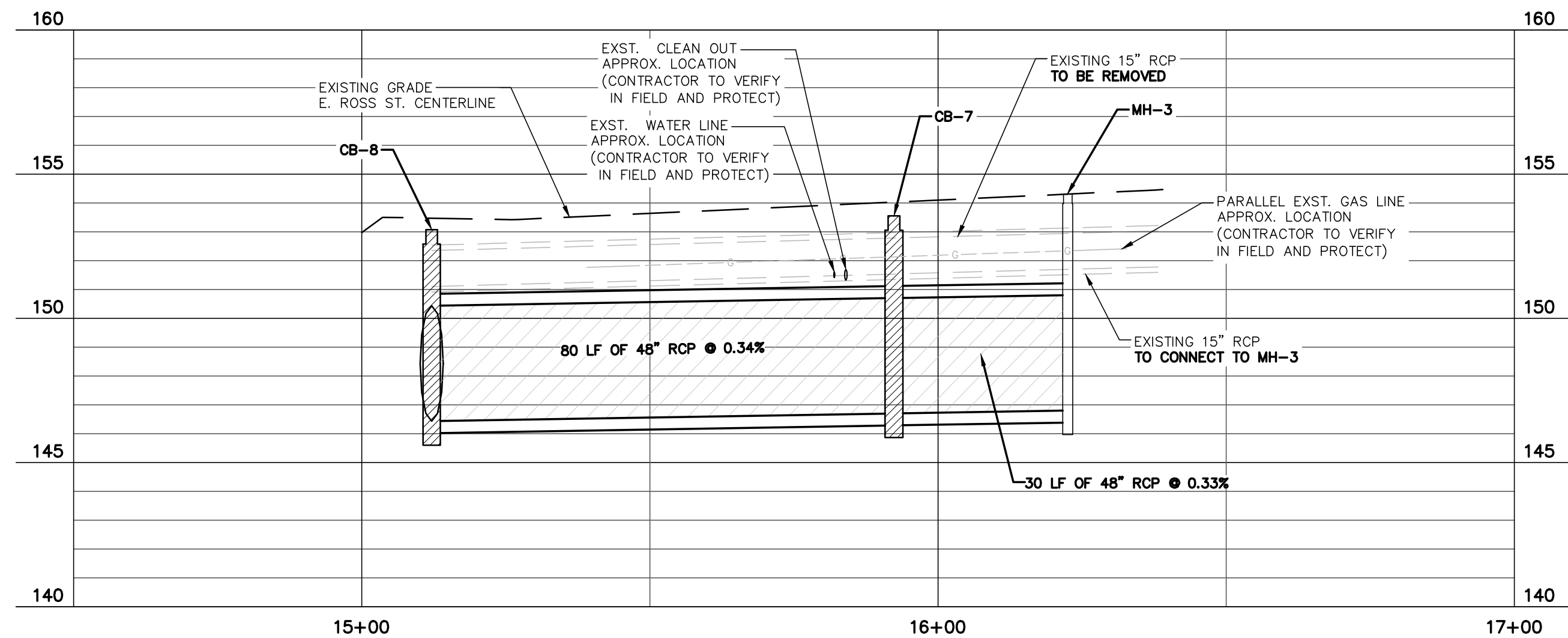
\\AD.MCGILLENGINERS.COM\COMPANY\SHARE\MC GILL PROJECTS\2021\21.04018-STPAULS-ELIZABETH+JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\C-10 PROPOSED DWG PLOT DATE 2/22/2023 3:33 PM KALIA BEESLEY

PLAN



PROFILE

SCALE: HORIZ. 1"= 20'  
VERT. 1"= 4'



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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
TOWN OF ST. PAULS  
ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE DIVISION VALUE = 20 FEET	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

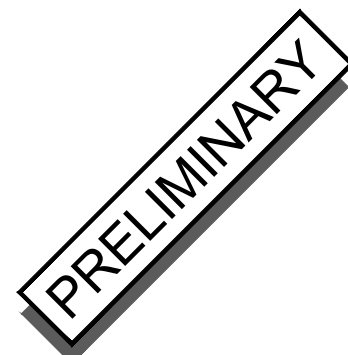
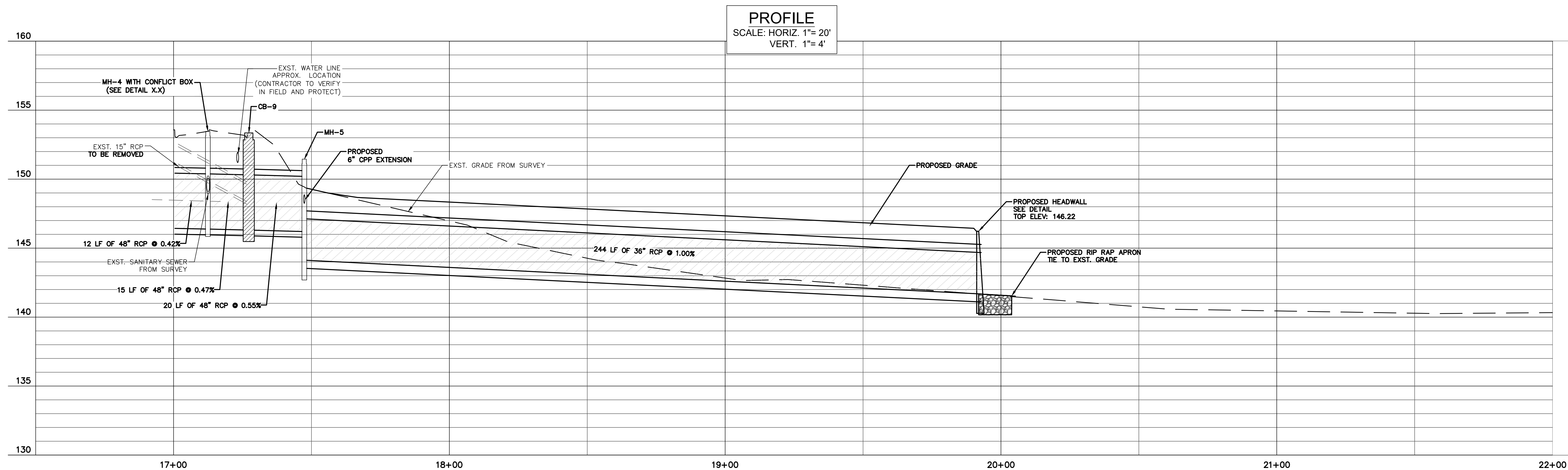
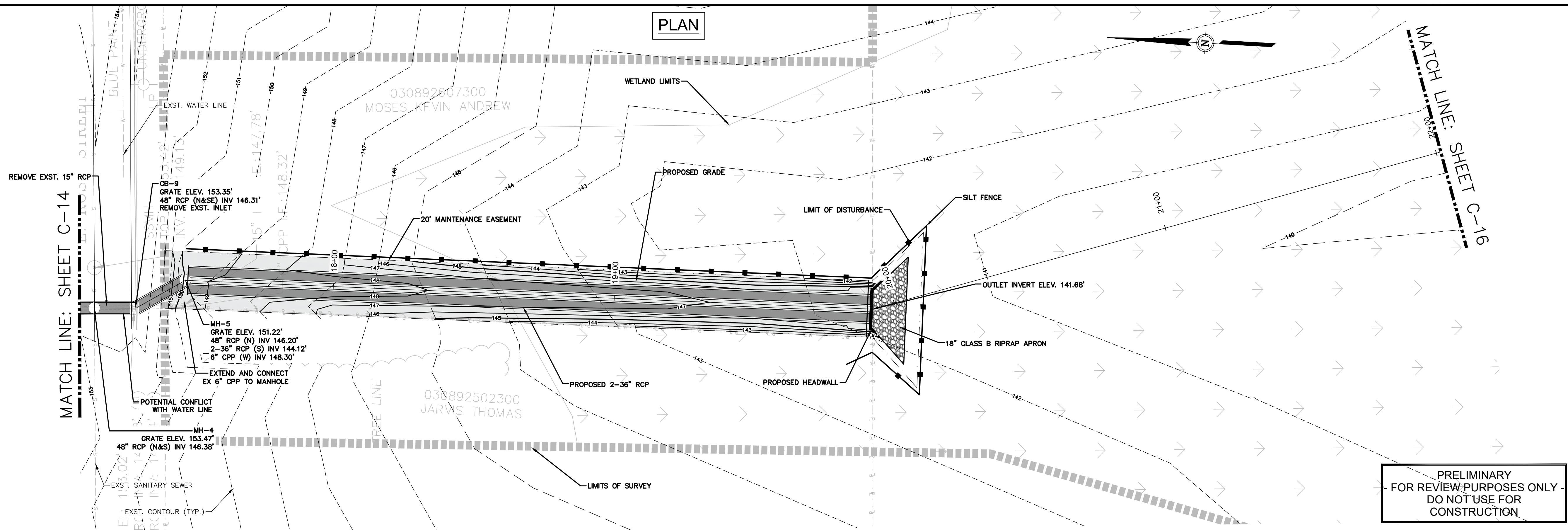
PROPOSED PLAN AND PROFILE E. ROSS  
ST. STA. 15+00-16+50

DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A
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SHEET

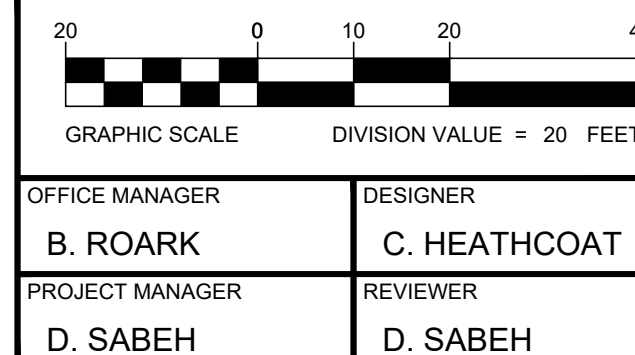
C-14

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS



No.	Date	By	Description

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



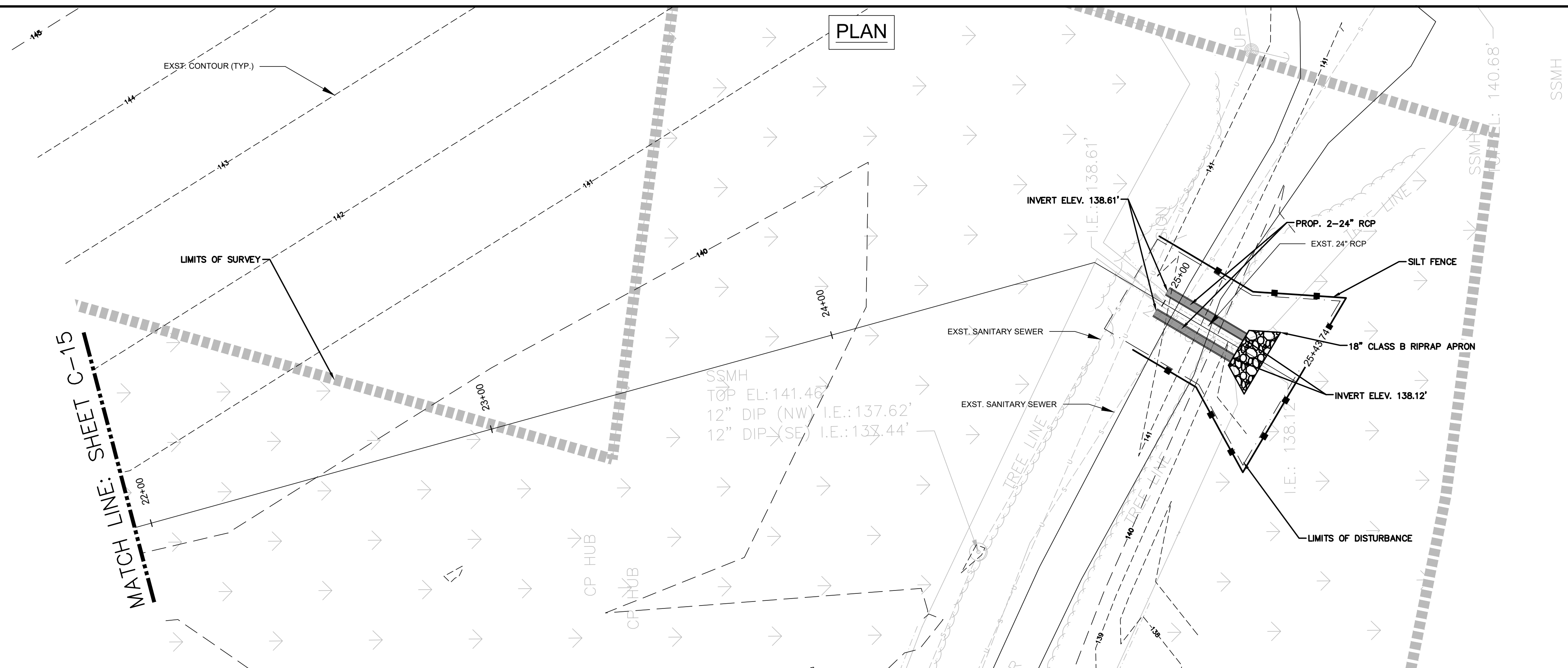
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17+00-22+00

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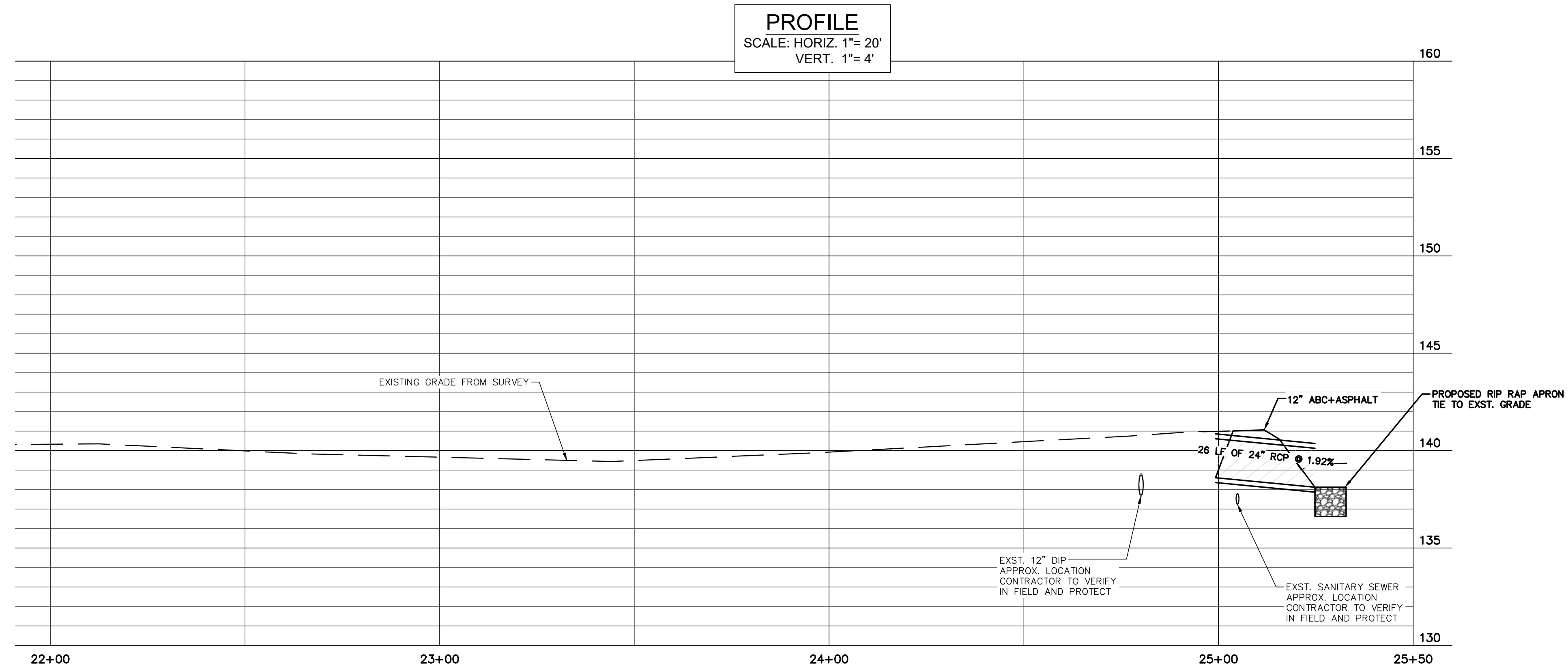
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C-15

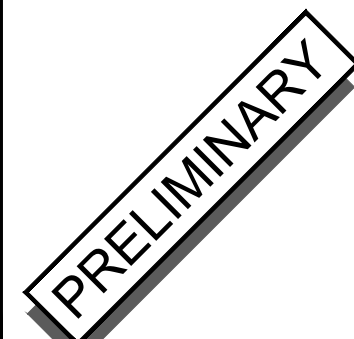




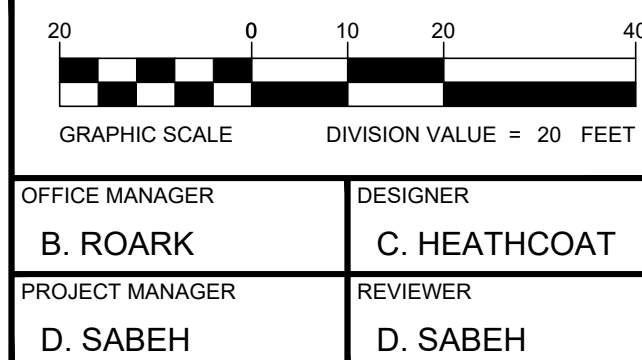
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[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

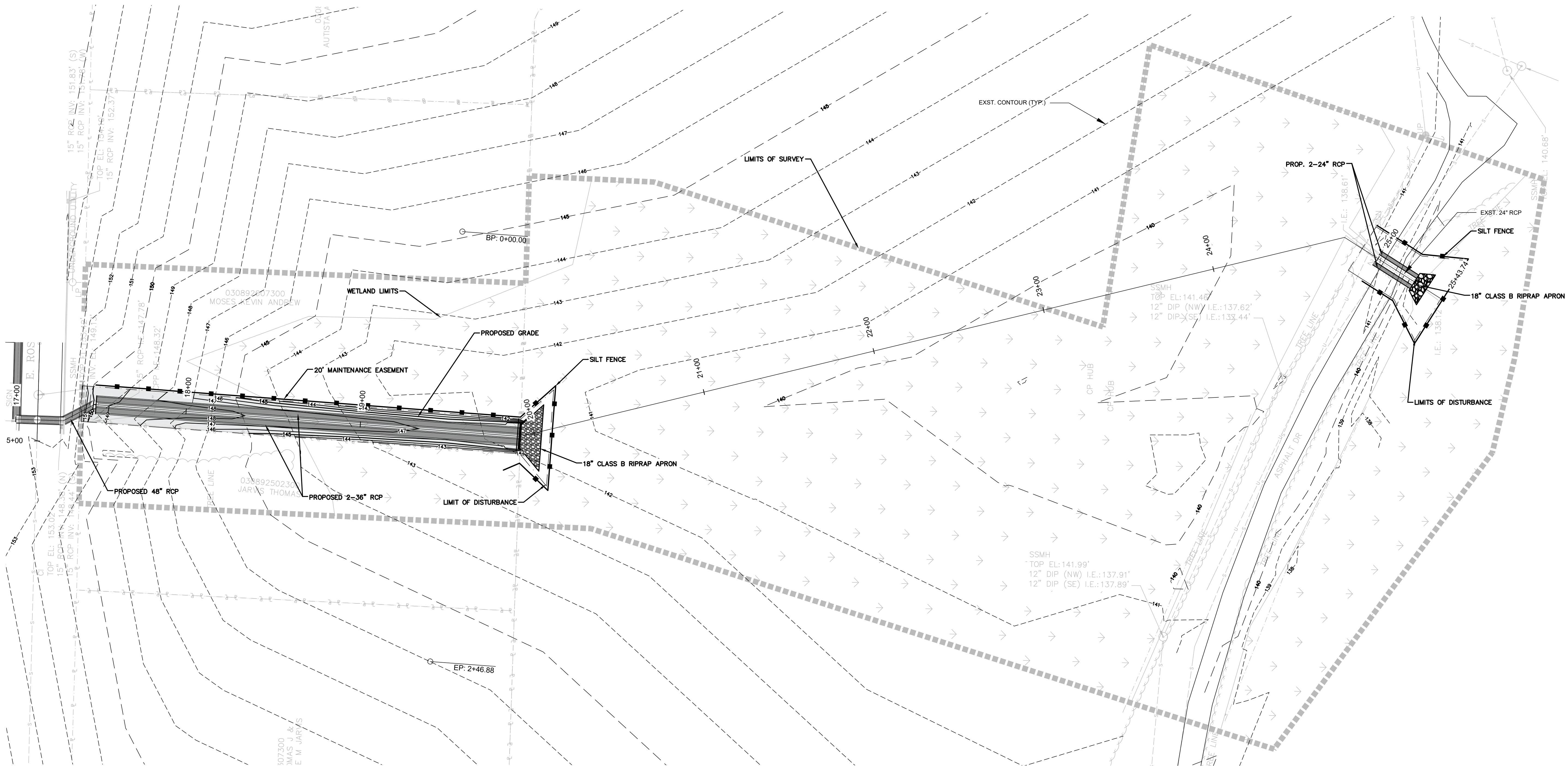
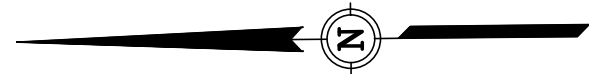
### PROPOSED PLAN AND PROFILE STA. 22+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-16





PRELIMINARY  
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DO NOT USE FOR  
CONSTRUCTION



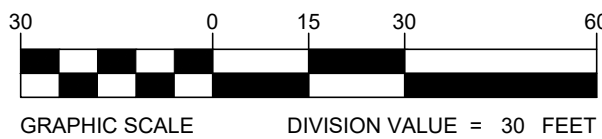
55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
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PRELIMINARY



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

 <div>GRAPHIC SCALE      DIVISION VALUE = 30 FEET</div>	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

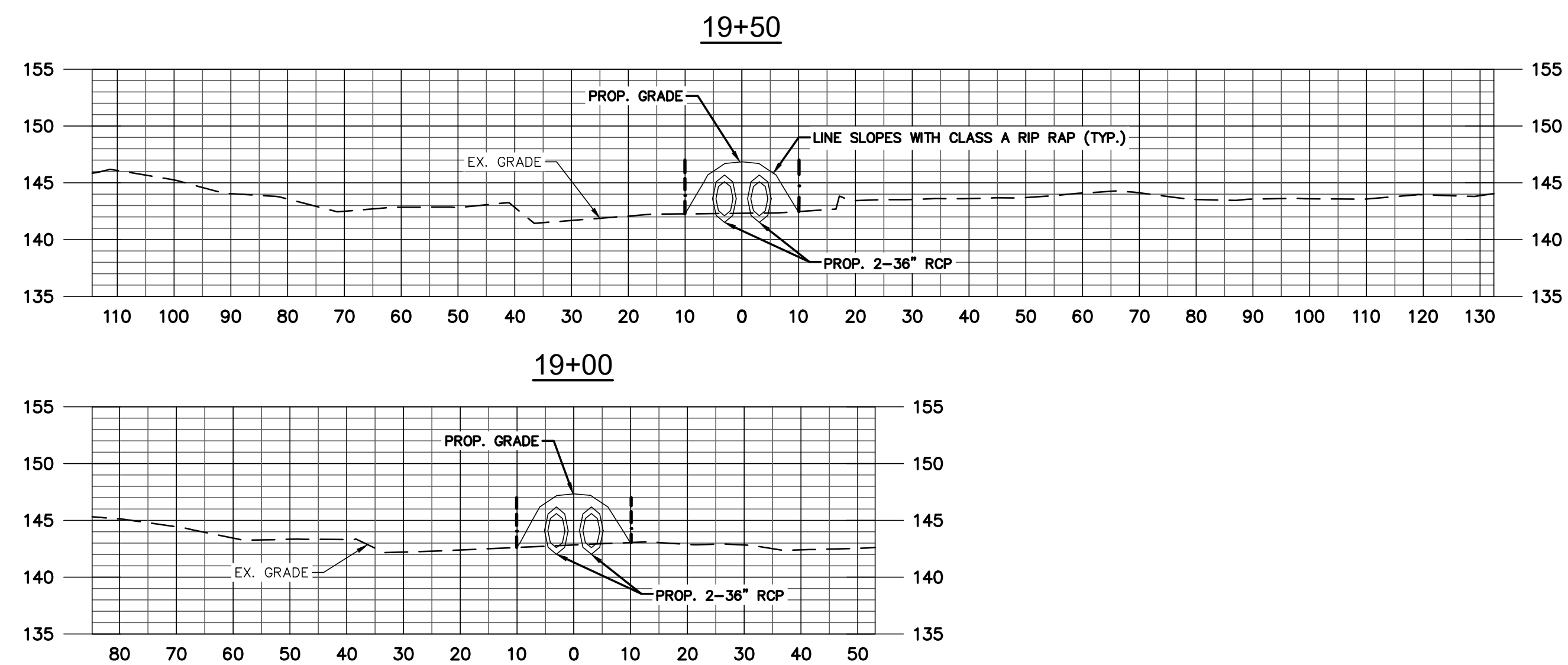
OVERVIEW OF WETLAND IMPACTS  
STA. 17+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-17

**SECTION**  
SCALE: HORIZ. 1"= 20'  
VERT. 1"= 2'



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CONSTRUCTION



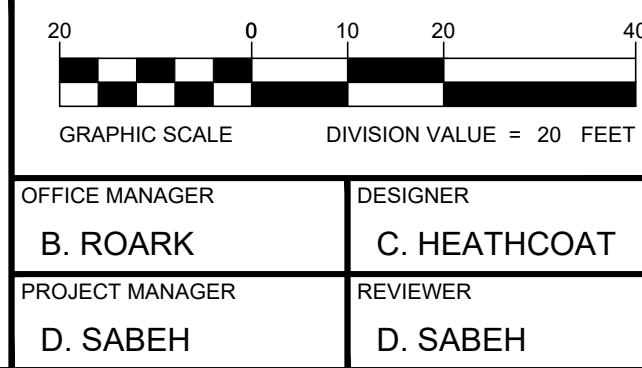
**mcgill**

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828.252.0575  
NC Firm License # C-0459  
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PRELIMINARY

[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



CROSS SECTIONS 17+50-20+00

DATE	PROJECT #	FUNDING #
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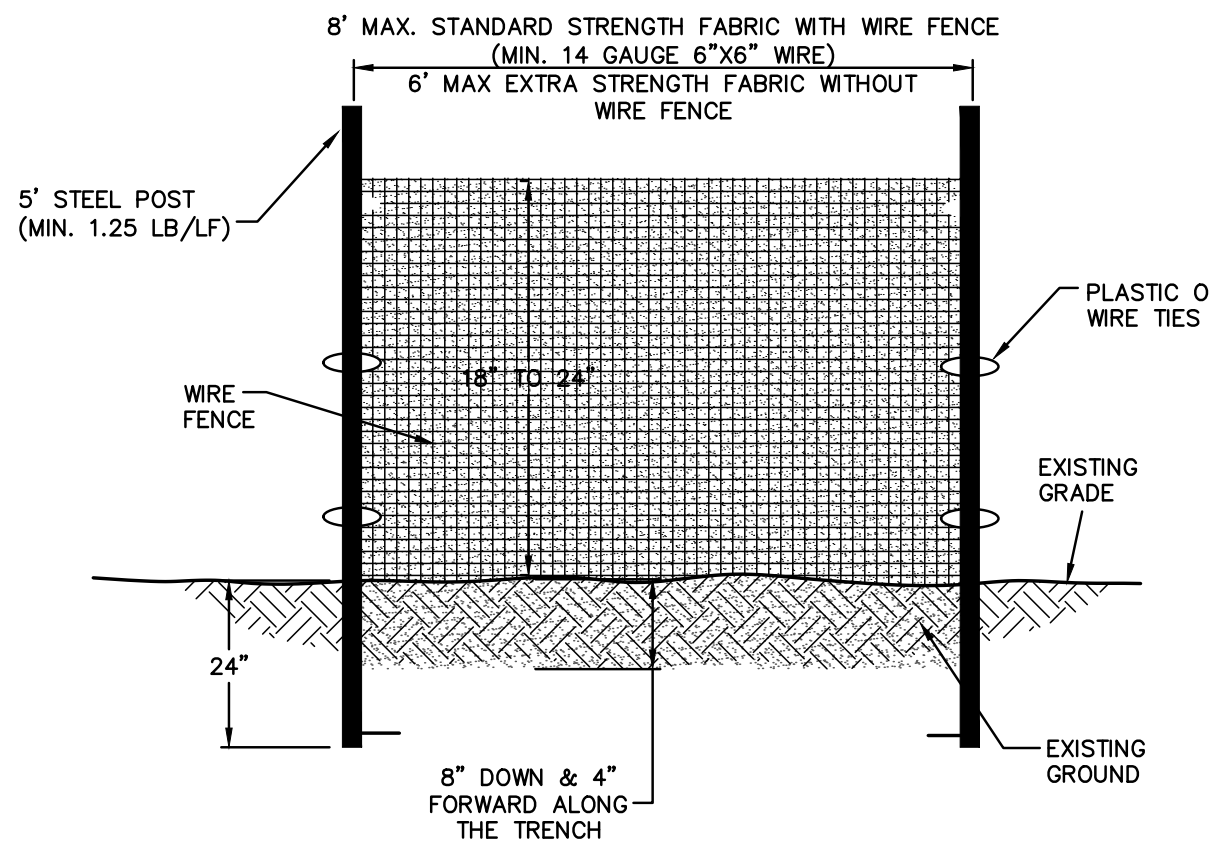
SHEET

# C-20

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS



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NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. REFERENCE NCDCEQ LAND QUALITY SECTION DESIGN MANUAL: 6.62.

MAINTENANCE:

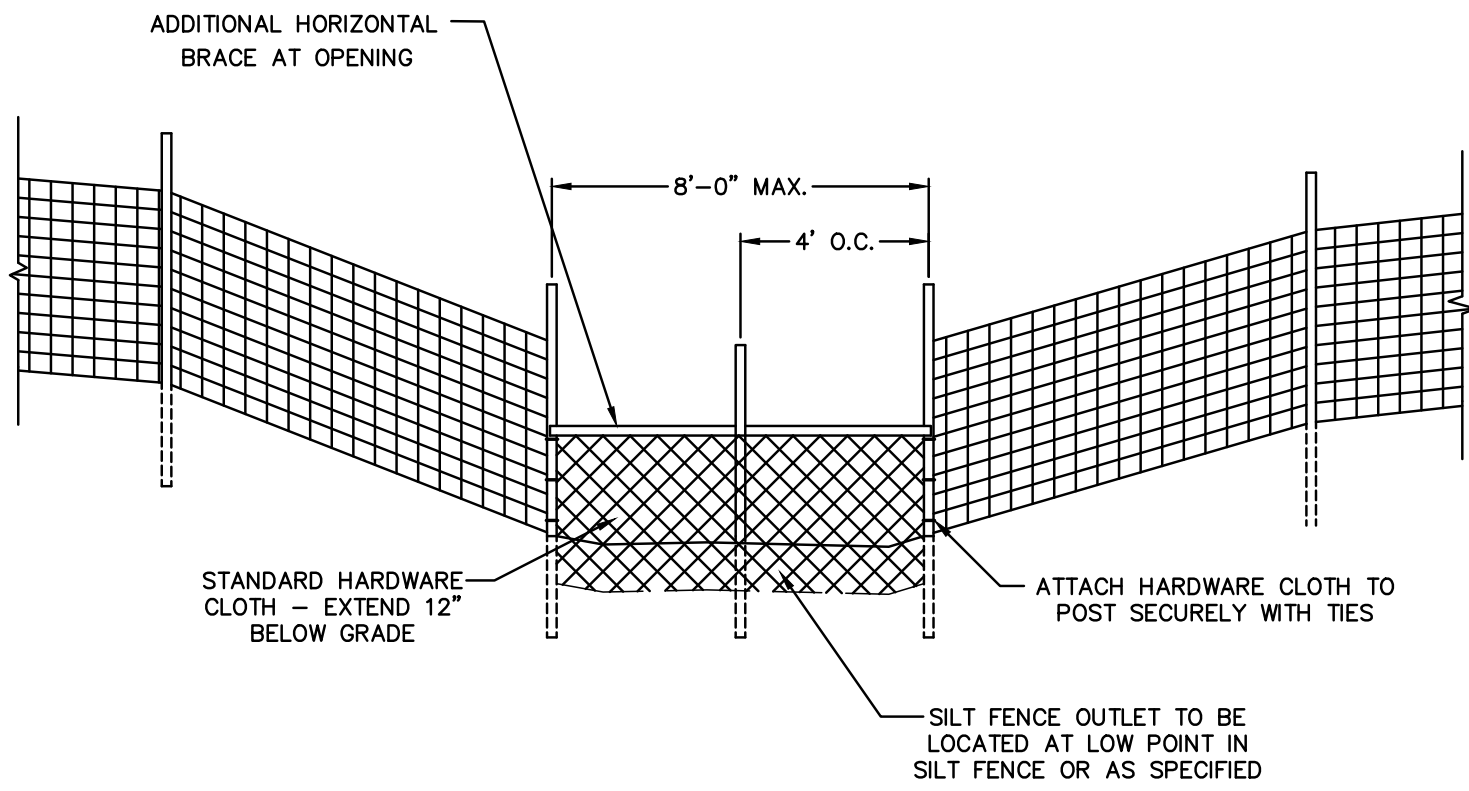
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SLOPE	SLOPE LENGTH(FT)	MAXIMUM AREA(SQFT)
<2%	100	10,000
2 TO 5%	75	7,500
5 TO 10%	50	5,000
10 TO 20%	25	2,500
>20%	15	1,500

SECTION VIEW

① SILT FENCE

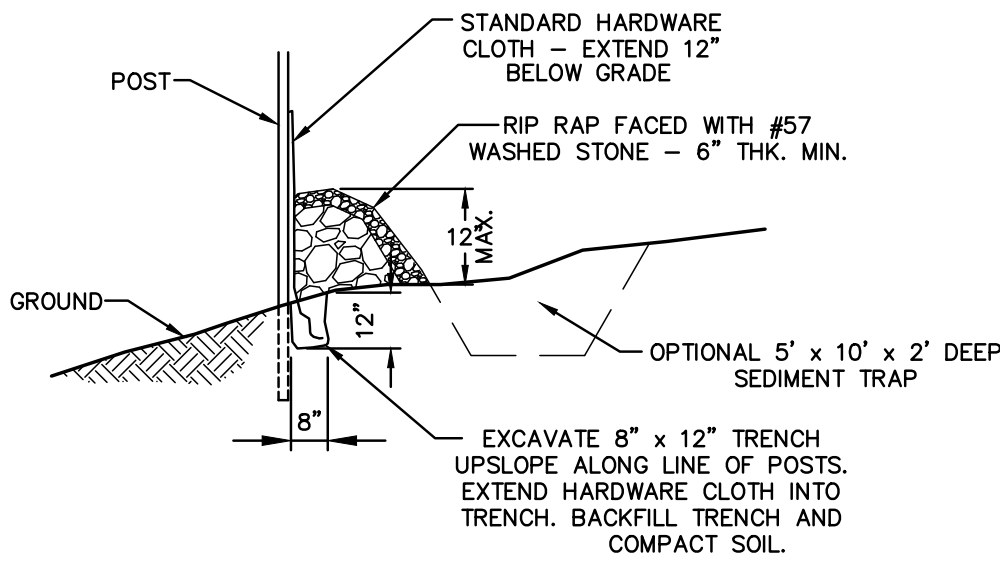
NOT TO SCALE



ELEVATION

NOTES:

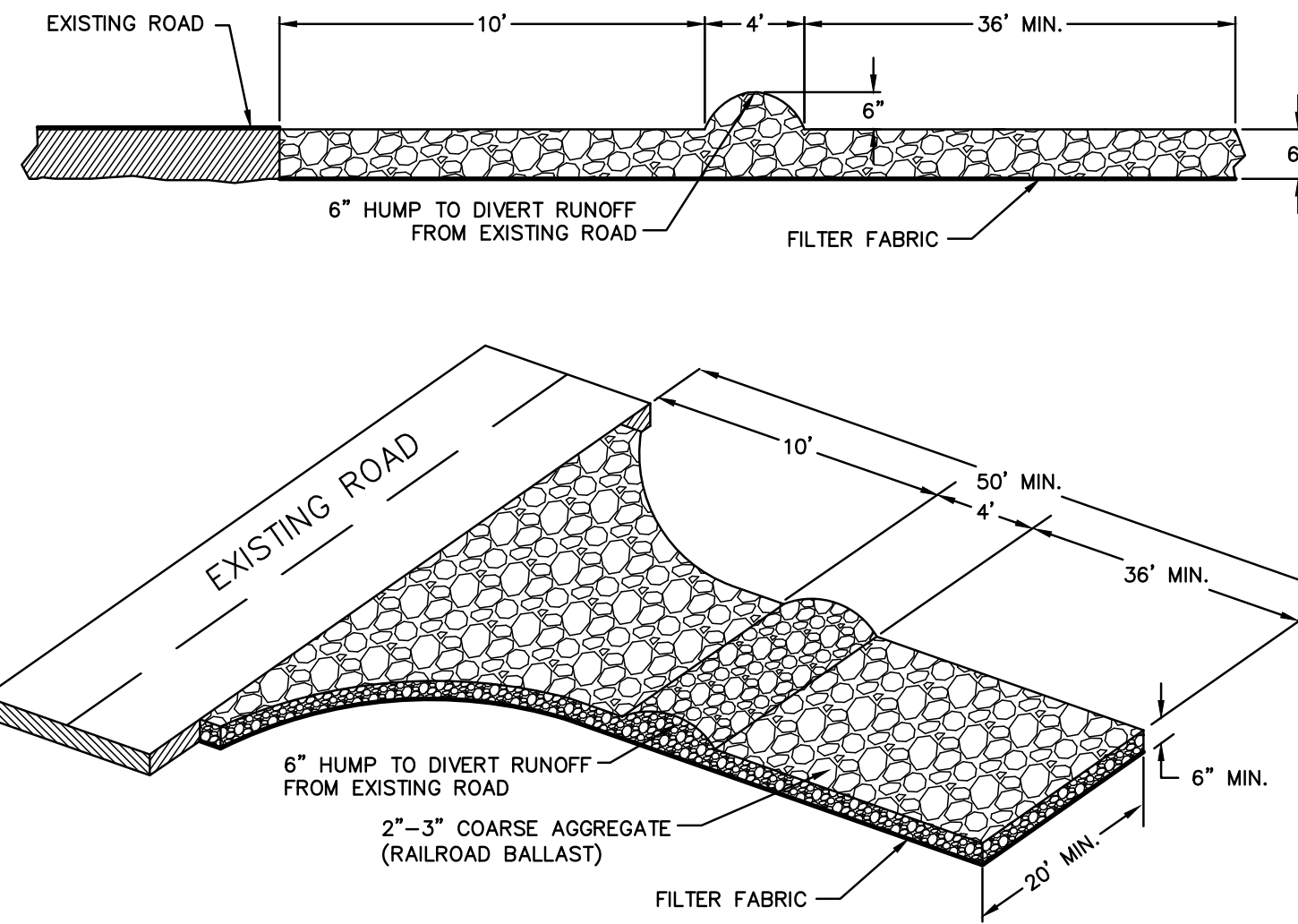
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. SILT FENCE OUTLETS SHALL BE LOCATED AT LOW POINTS IN CONTINUOUS RUNS OF SILT FENCE.



SECTION VIEW

② SILT FENCE - OUTLET

NOT TO SCALE



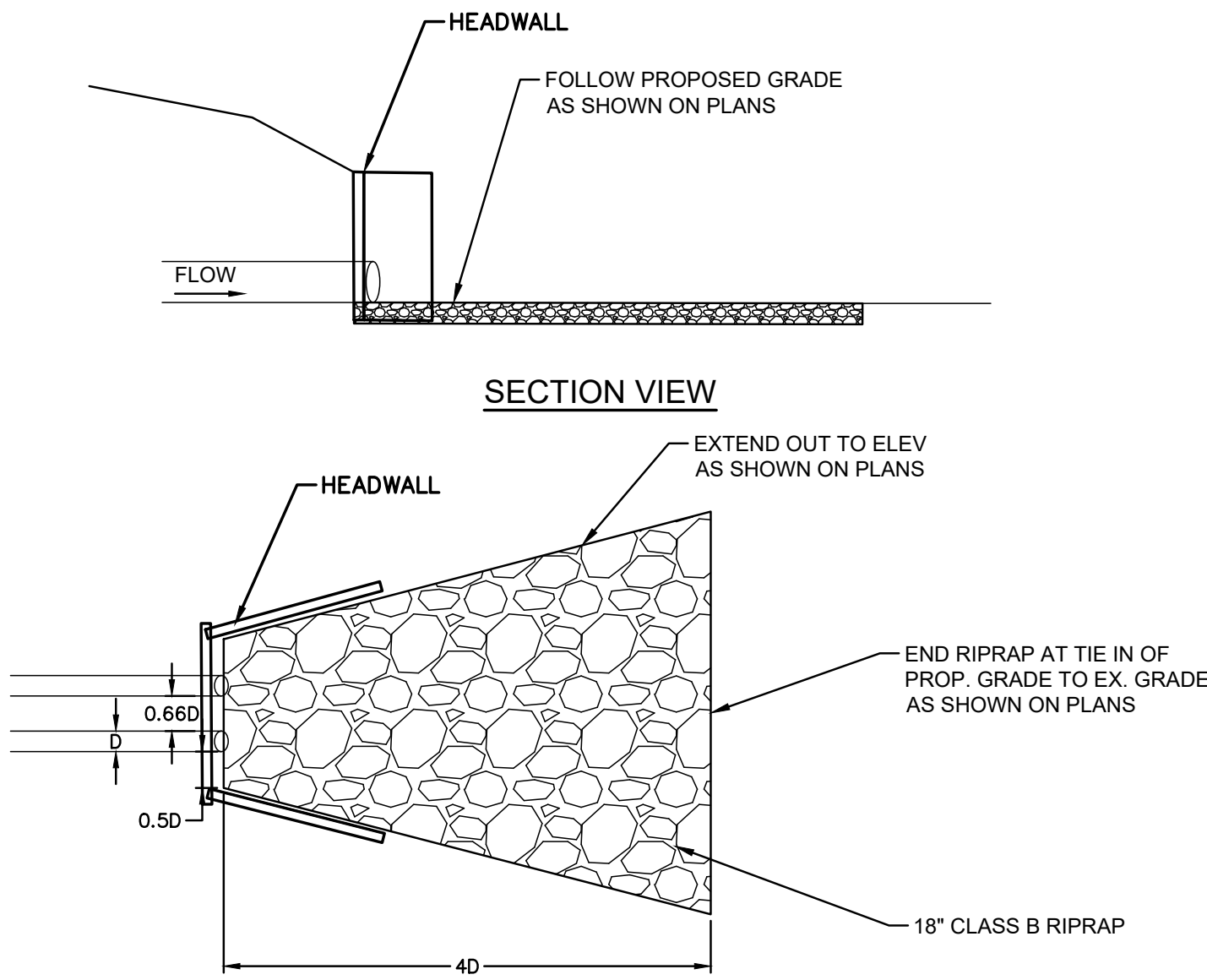
NOTES:

1. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM AN EXISTING ROAD.
2. STONE TO BE 2 - 3 INCH WASHED STONE RAILROAD BALLAST.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. REFERENCE NCDCEQ LAND QUALITY SECTION DESIGN MANUAL: 6.06.

EC  
24

TEMPORARY CONSTRUCTION ENTRANCE

UPDATED MARCH, 2017  
NOT TO SCALE

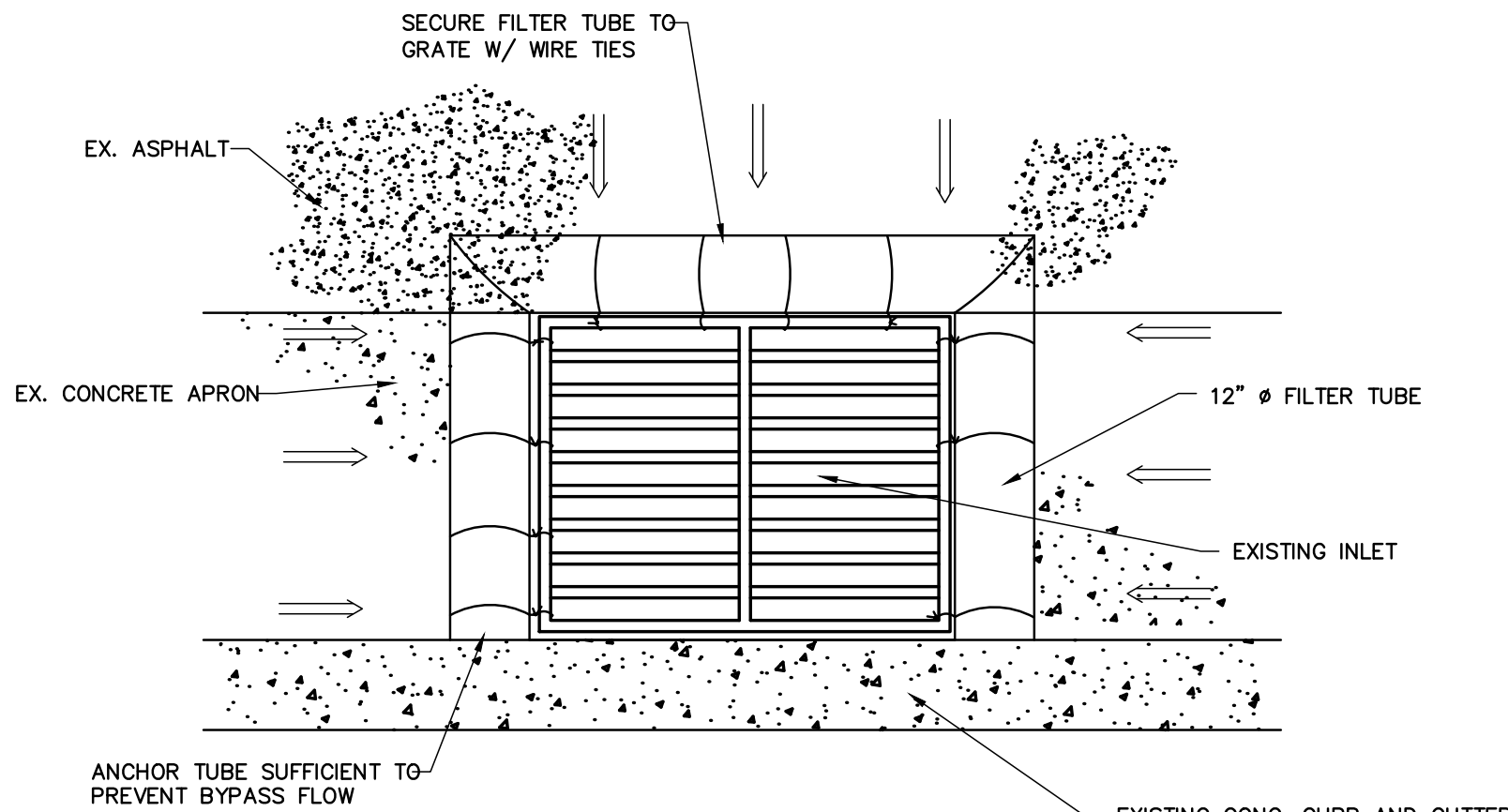


SECTION VIEW

PLAN VIEW

③ PERMANENT RIPRAP OUTLET PROTECTION

NOT TO SCALE



FILTER TUBE INLET PROTECTION -  
PAVED CONDITION - CURB AND GUTTER SECTION

NOT TO SCALE

PRELIMINARY  
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NO.	DATE	BY	DESCRIPTION

50 0 25 50 100 GRAPHIC SCALE DIVISION VALUE = 50 FEET	OFFICE MANAGER B. ROARK DESIGNER C. HEATHCOAT PROJECT MANAGER D. SABEH REVIEWER D. SABEH
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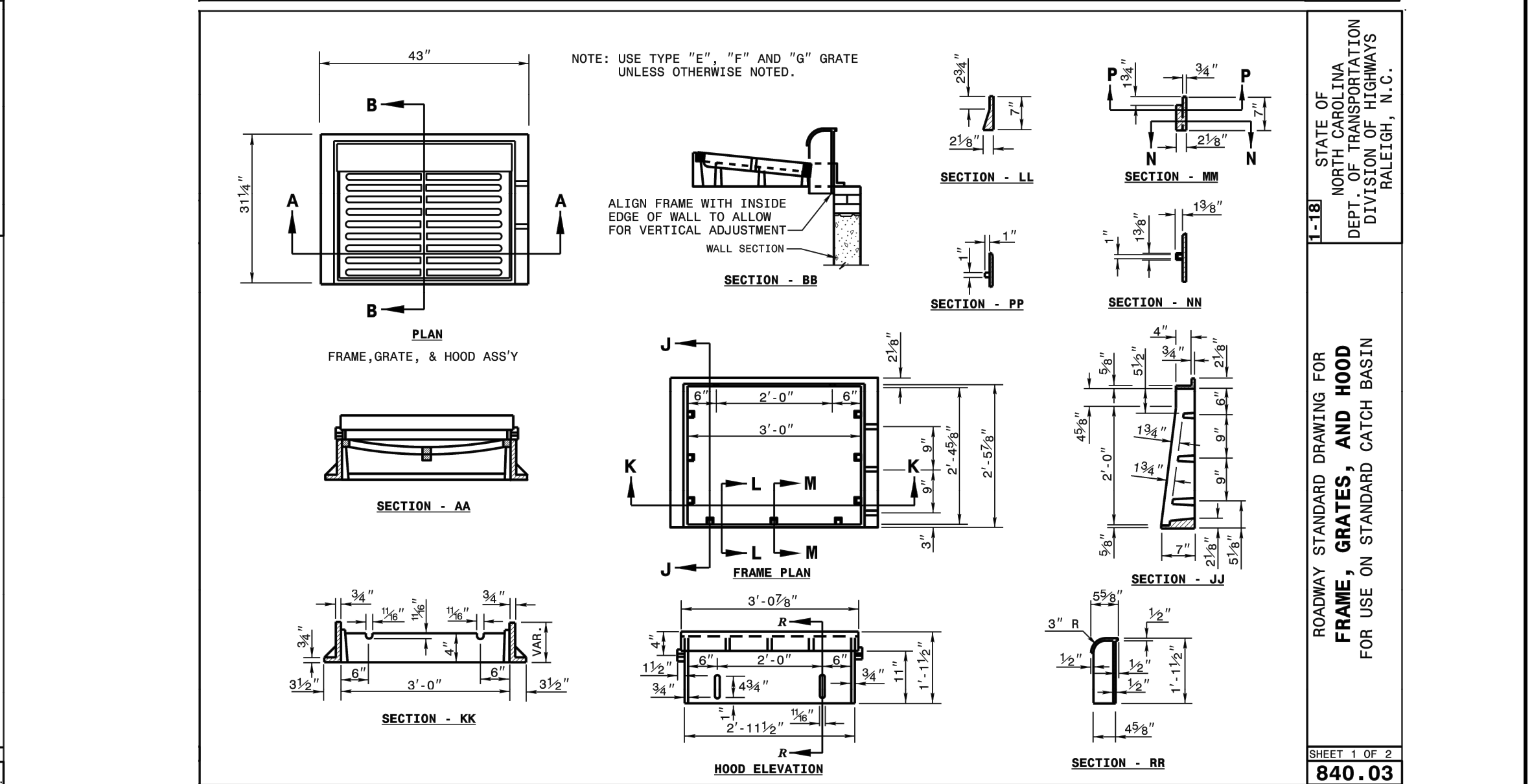
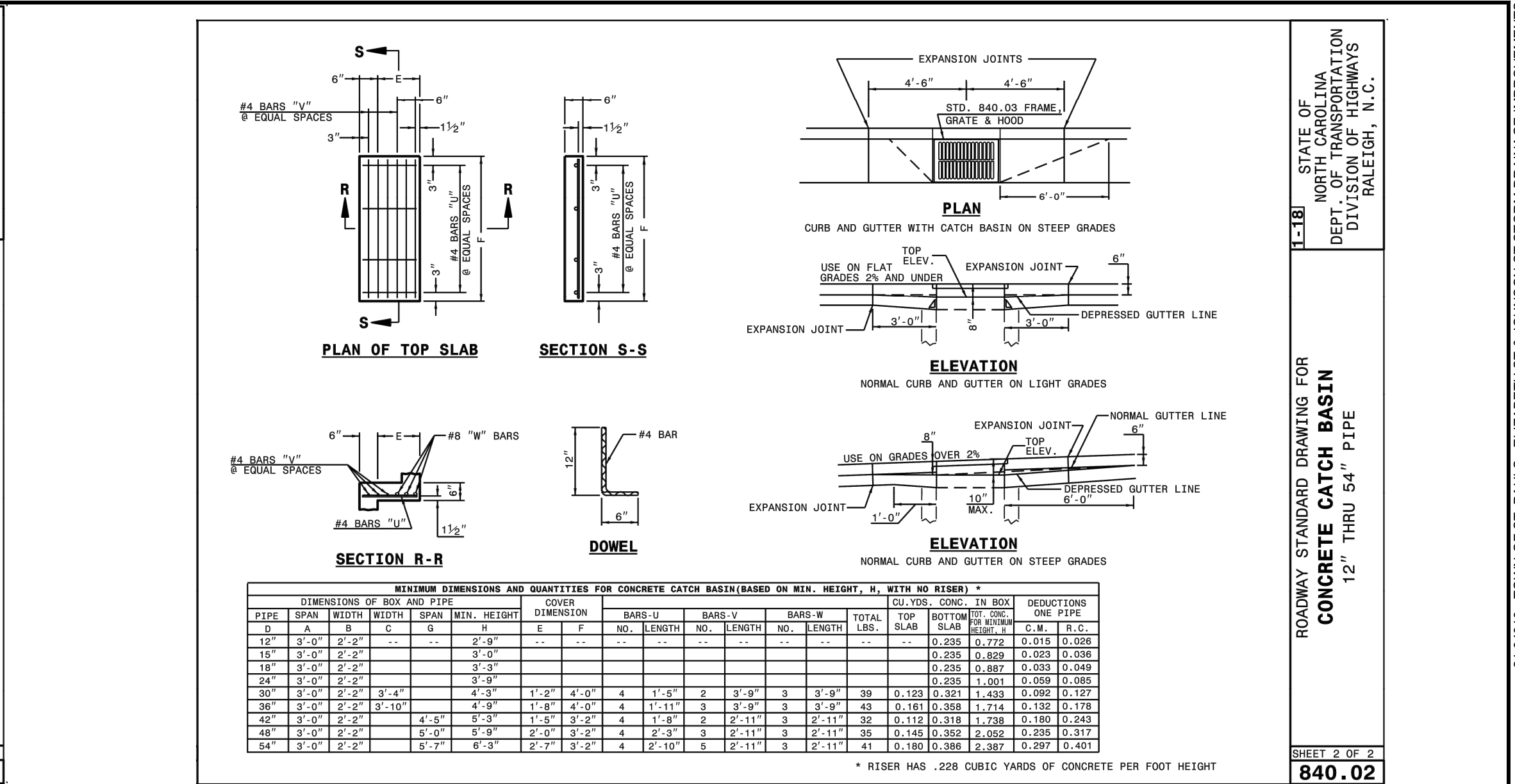
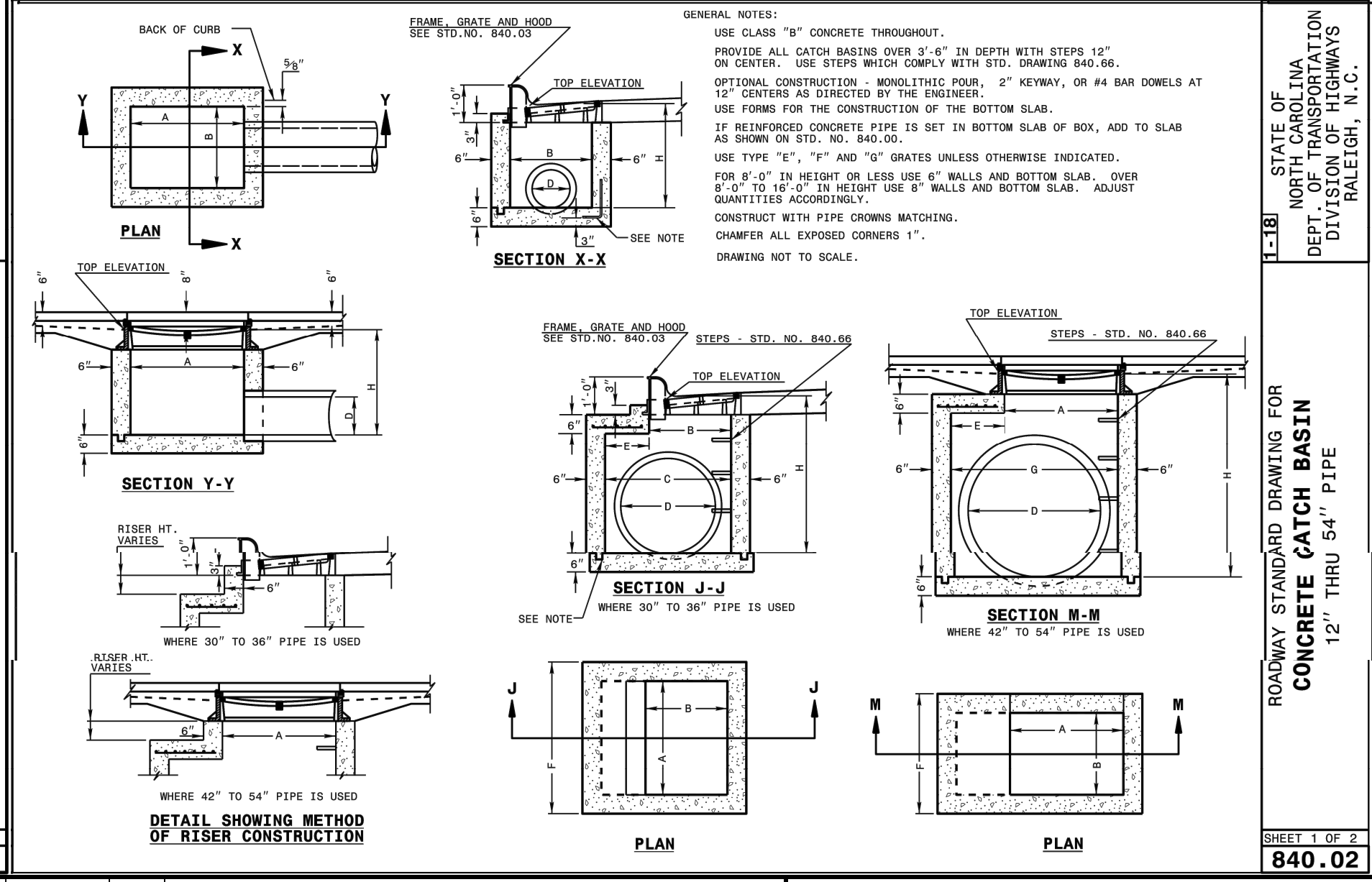
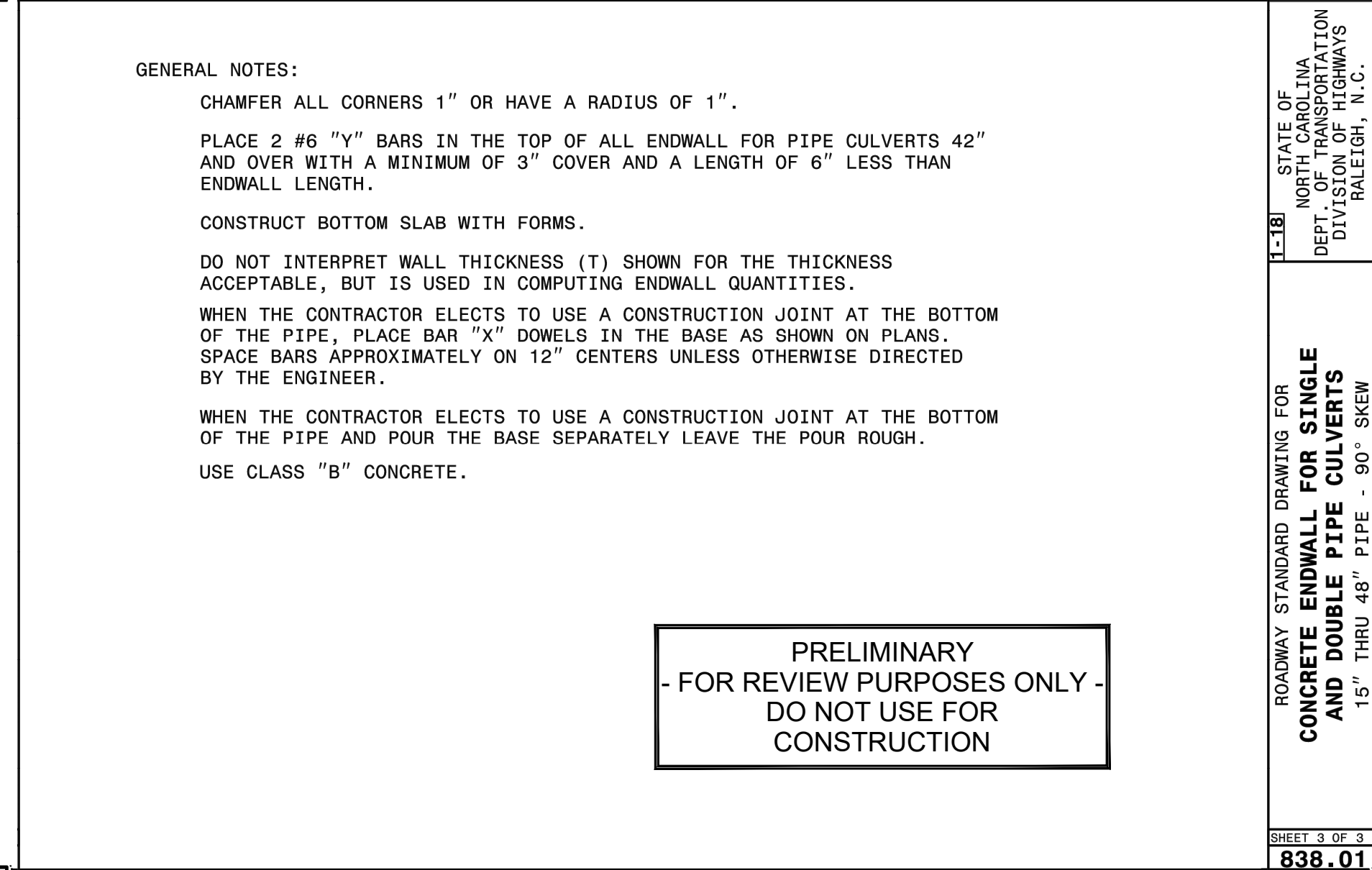
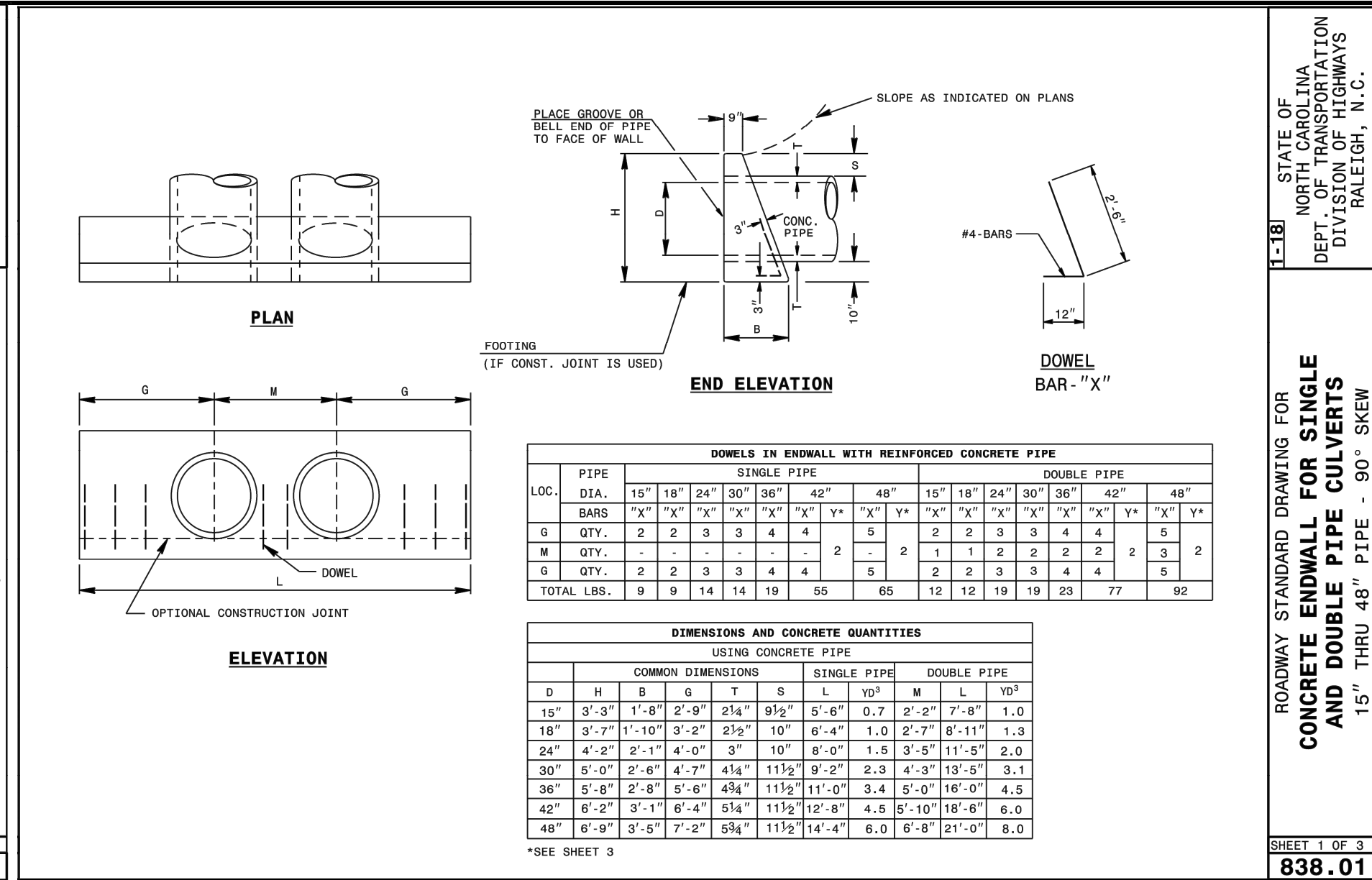
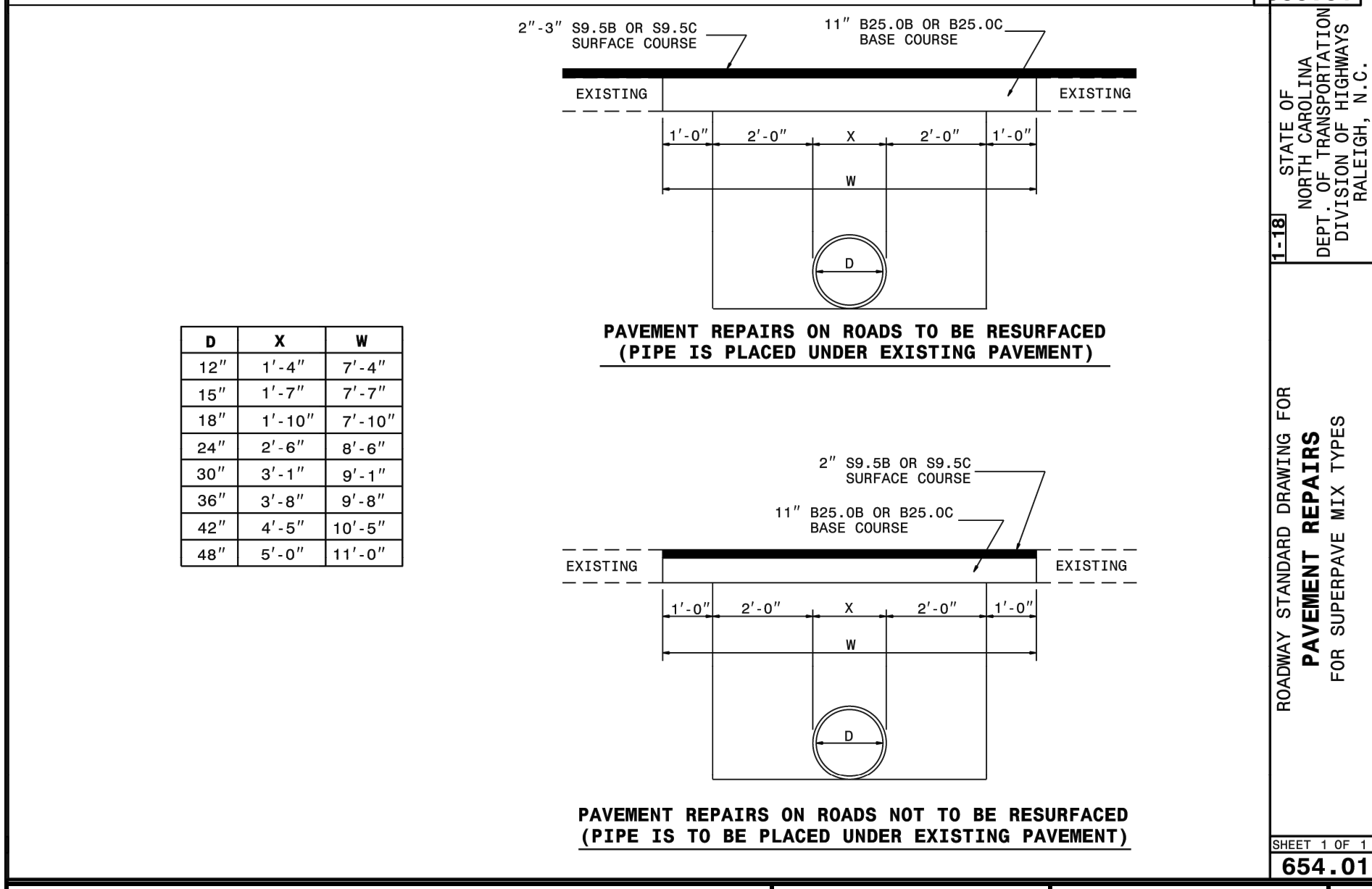
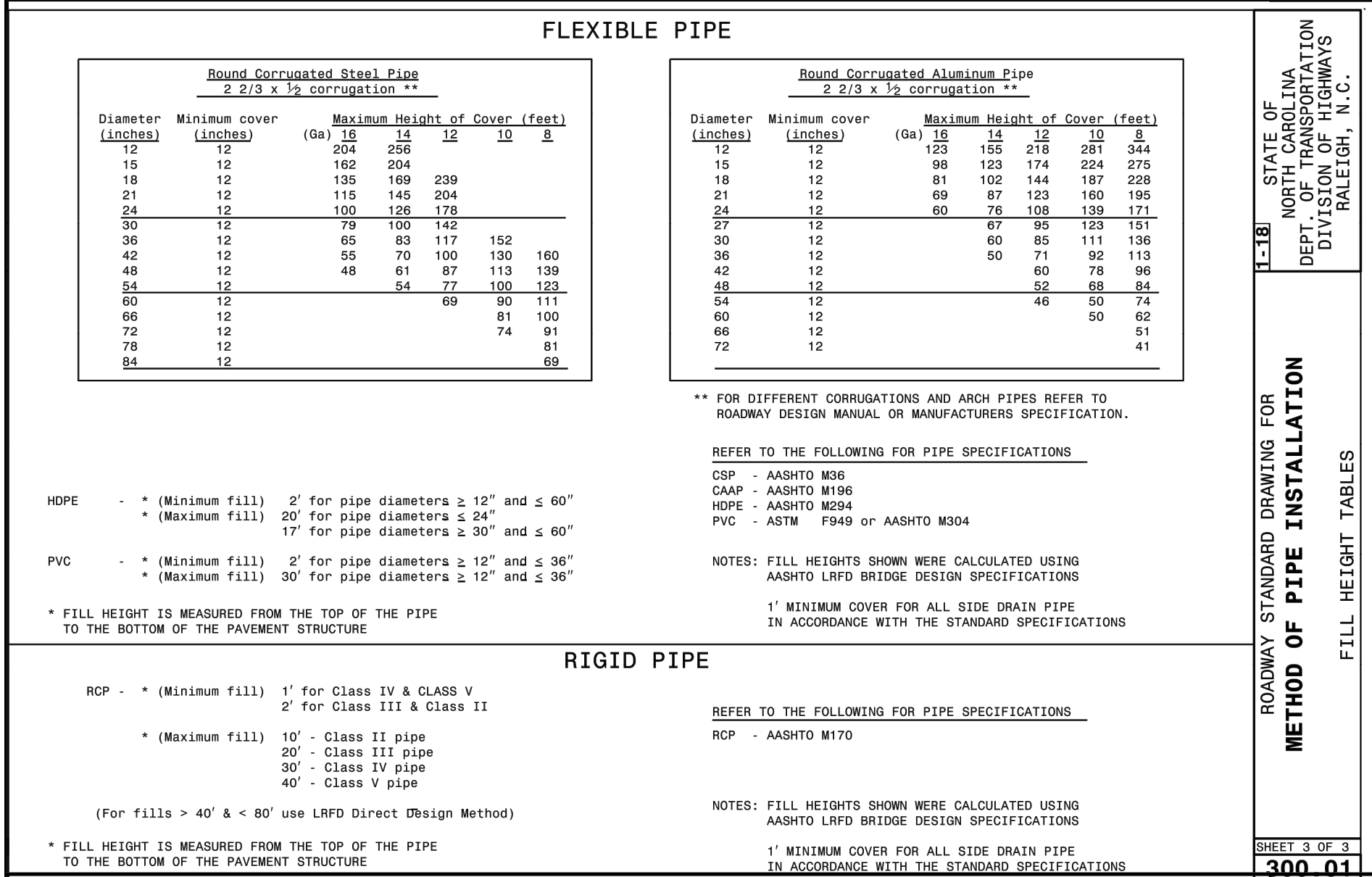
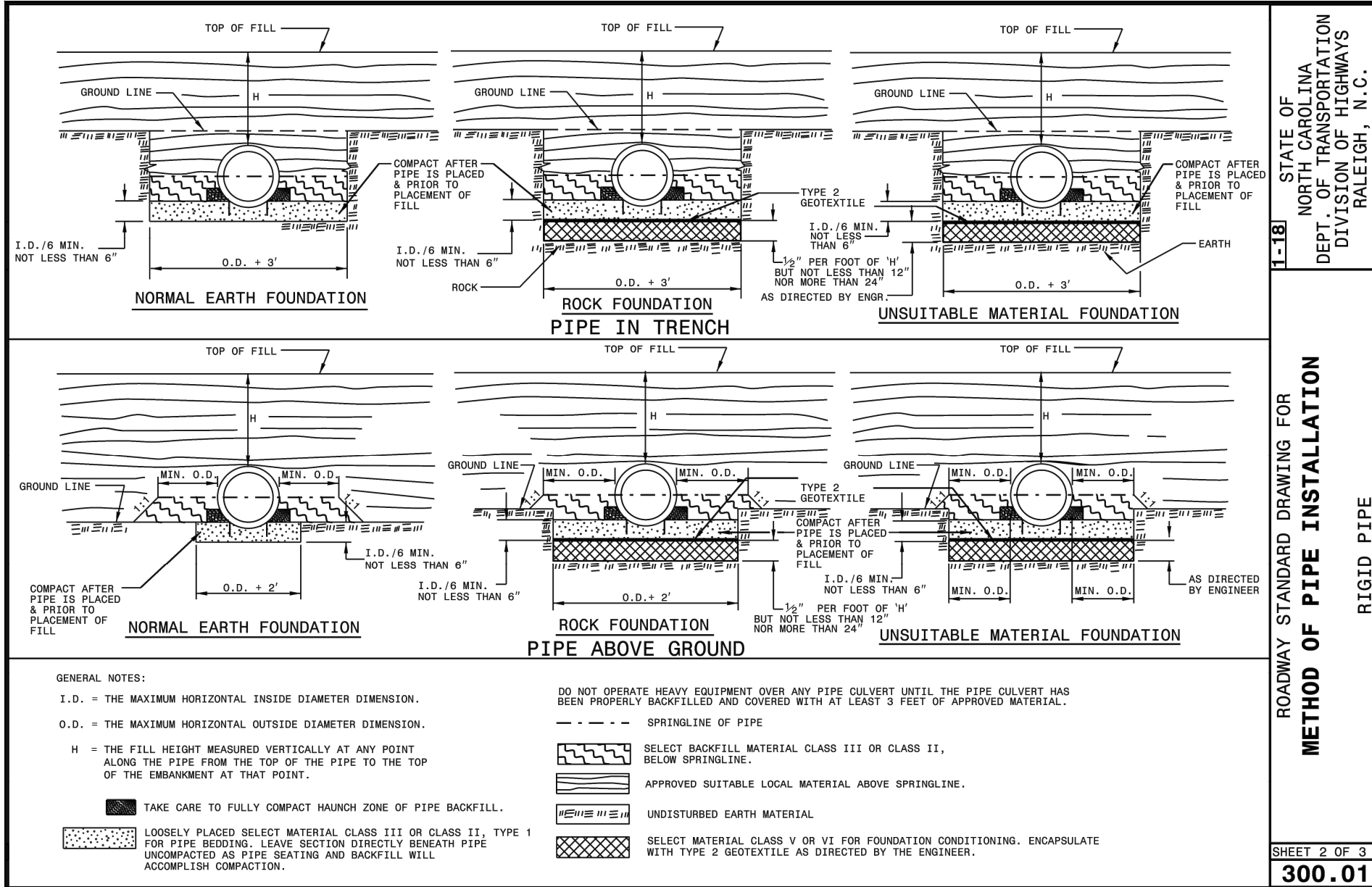
DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A







W:\MCGILL\ENGINEERS\COMPCOMPANYSHARE\MCGILL PROJECTS\2021\121,040\18-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE IMPROVEMENTS\DRWG SHEETS\C-31 MISCELLANEOUS DETAILS DWG PLOT DATE 1/31/2023 6:23 PM KALIA BEESLEY





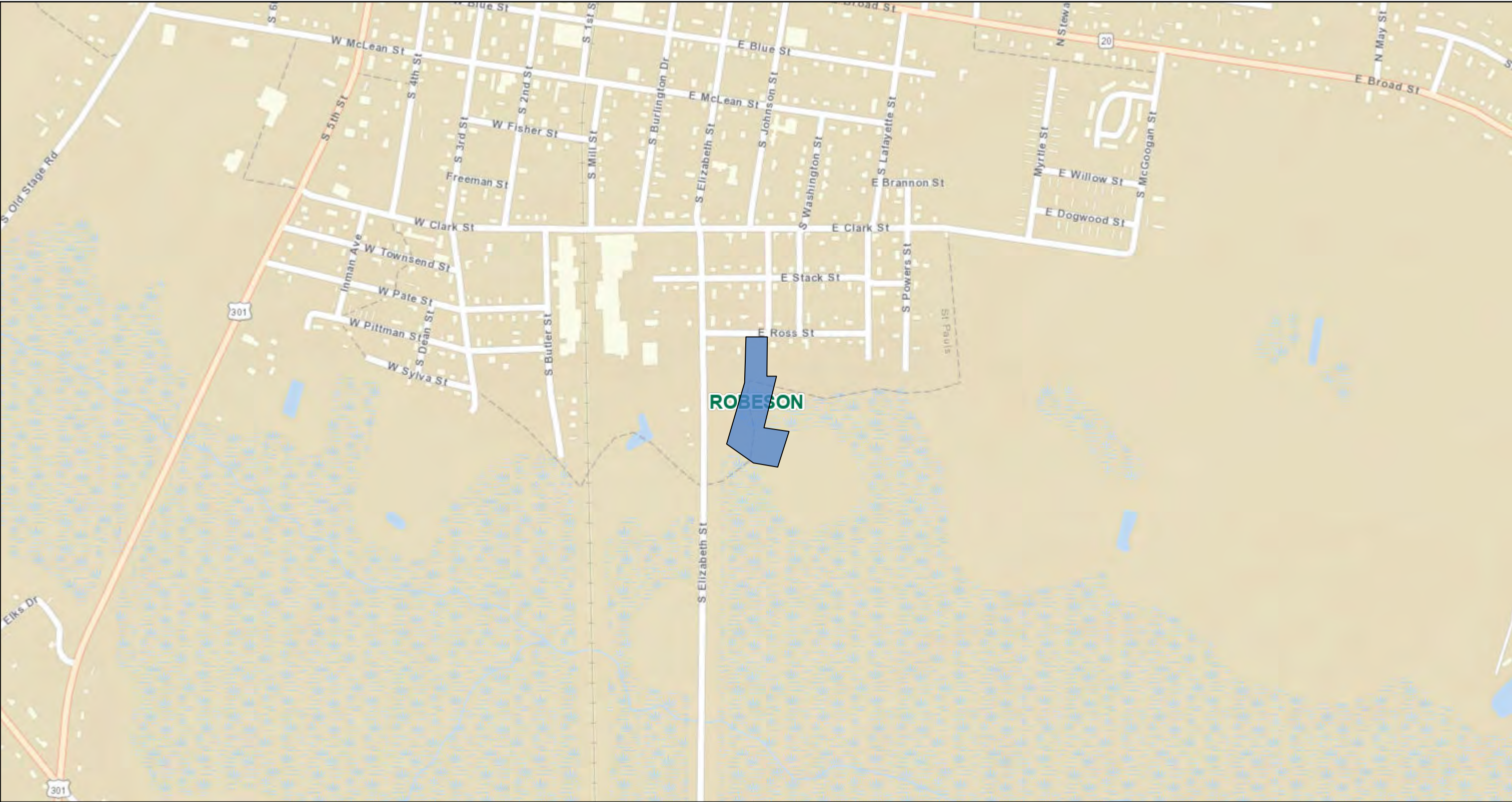






**APPENDIX 3**  
**NCHPO HPOWEB Map**



# NCHPO HPOWEB Map



2/7/2023, 11:43:49 AM

-  Study Area\_2\_6\_2023
-  Counties (outline)

1:9,028

00.070.150.3 mi

00.130.250.5 km

State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, Intermap, NGA, USGS

## **APPENDIX 4**

### **IPAC Consultation 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:

February 06, 2023

Project Code: 2023-0042046

Project Name: St.Pauls Elizabeth-Johnson Street Storm Drainage Project

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 ECOS-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 ECOS-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:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.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/birds/policies-and-regulations.php>.

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/birds/bird-enthusiasts/threats-to-birds.php>.

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/birds/policies-and-regulations/executive-orders/e0-13186.php>.

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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
- 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

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## Project Summary

Project Code: 2023-0042046

Project Name: St.Pauls Elizabeth-Johnson Street Storm Drainage Project

Project Type: Drainage Project

Project Description: St.Pauls, North Carolina

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@34.79889085,-78.96804406651196,14z>



Counties: Robeson County, North Carolina

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## Endangered Species Act Species

There is a total of 5 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<sup>1</sup>, 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.

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
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

### Birds

NAME	STATUS
Red-cockaded Woodpecker <i>Picoides borealis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7614">https://ecos.fws.gov/ecp/species/7614</a>	Endangered

### Reptiles

NAME	STATUS
American Alligator <i>Alligator mississippiensis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/776">https://ecos.fws.gov/ecp/species/776</a>	Similarity of Appearance (Threatened)

### Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## Flowering Plants

NAME	STATUS
Michaux's Sumac <i>Rhus michauxii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5217">https://ecos.fws.gov/ecp/species/5217</a>	Endangered

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats 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)

**The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location.** To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

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
<b>Chimney Swift <i>Chaetura pelagica</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
<b>Prothonotary Warbler <i>Protonotaria citrea</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
<b>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10

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## 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 and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

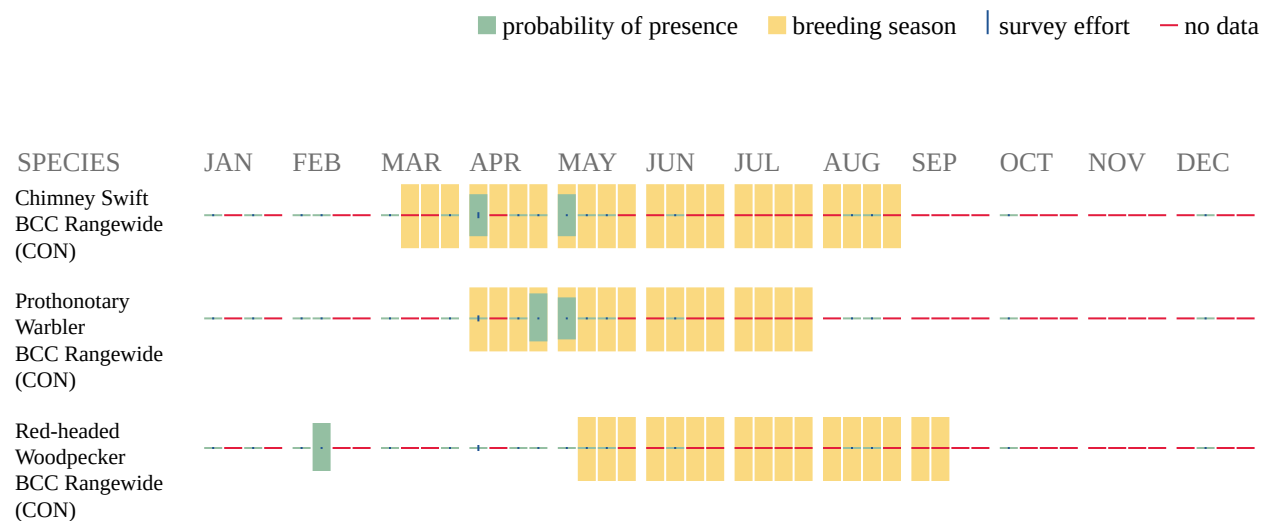
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

## Migratory Birds FAQ

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
  2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
  3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).
-

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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## **IPaC User Contact Information**

Agency: St. Pauls town  
Name: Alex Lowdermilk  
Address: 1240 19th Street Lane NW  
City: Hickory  
State: NC  
Zip: 28601  
Email: alex.lowdermilk@mcgillassociates.com  
Phone: 8285140345

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## **APPENDIX 5**

### **Preliminary Jurisdictional Determination (PJD)**

February 8, 2023

Gary Beecher  
US Army Corps of Engineers  
Washington Regulatory Field Office  
2407 West Fifth Street  
Washington, North Carolina 27889

RE: Elizabeth-Johnson Storm Drainage Project  
Jurisdictional Determination  
Saint Pauls, North Carolina

Dear Mr. Beecher:

This letter is to request confirmation of a Preliminary Jurisdictional Determination on the referenced site. The request is based on data, site observations, and a site visit on October 13, 2021 and February 7, 2023. We are requesting confirmation of the jurisdictional limits of 'Wetland A'. The location of Wetland A is shown and labeled on the attached Delineation Map. Included in this letter are the following:

- Agent Authorization Form
- PJD Request Forms
- Location Map
- USGS Topographic Map
- Delineation Map
- NWI Map
- Photo Sheet
- Soils Map
- Wetland Determination Data Sheets

Please include McGill Associates on the copy list of all correspondence for this project. If you have any questions regarding this information, please contact me at 828-328-2024.

Sincerely,  
**MCGILL ASSOCIATES, PA**

A handwritten signature in black ink, appearing to read 'Jon Swaim'.

**JON SWAIM**  
Project Manager / Environmental Services

P:\2021\21.04018-StPaulsNC-Elizabeth-Johnson Street Storm Drainage

# Jurisdictional Determination Request

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**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

## **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

## **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

## **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.

## Jurisdictional Determination Request

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### A. PARCEL INFORMATION

Street Address: \_\_\_\_\_

City, State: \_\_\_\_\_

County: \_\_\_\_\_

Parcel Index Number(s) (PIN): \_\_\_\_\_

### B. REQUESTOR INFORMATION

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Electronic Mail Address: \_\_\_\_\_

Select one:

☐

I am the current property owner.

☐

I am an Authorized Agent or Environmental Consultant<sup>1</sup>

☐

Interested Buyer or Under Contract to Purchase

☐

Other, please explain. \_\_\_\_\_

### C. PROPERTY OWNER INFORMATION<sup>2</sup> OWNER

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Electronic Mail Address: \_\_\_\_\_

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<sup>1</sup> Must provide completed Agent Authorization Form/Letter.

<sup>2</sup> Documentation of ownership also needs to be provided with request (copy of Deed, County GIS/Parcel/Tax Record).

## Jurisdictional Determination Request

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### D. PROPERTY ACCESS CERTIFICATION<sup>3,4</sup>

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.

\_\_\_\_\_  
Print Name

Capacity: ☐ Owner ☐ Authorized Agent<sup>5</sup>

\_\_\_\_\_  
Date

*Jon Swaim*  
\_\_\_\_\_  
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: \_\_\_\_\_

<sup>3</sup> For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.

<sup>4</sup> If there are multiple parcels owned by different parties, please provide the following for each additional parcel on a continuation sheet.

<sup>5</sup> Must provide agent authorization form/letter signed by owner(s).



## Jurisdictional Determination Request

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### 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 \_\_\_\_\_ acres.

☐ The property boundary (or review area boundary) is clearly physically marked on the site.

# Jurisdictional Determination Request

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## H. REQUESTS FROM CONSULTANTS

☐

Project Coordinates (Decimal Degrees): Latitude: \_\_\_\_\_  
Longitude: \_\_\_\_\_

☐

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).<sup>6</sup>

- 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)

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<sup>6</sup> 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/>

## Jurisdictional Determination Request

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- ☐ Completed appropriate Jurisdictional Determination form
  - **PJDs**, please complete a Preliminary Jurisdictional Determination Form<sup>7</sup> and include the Aquatic Resource Table
  - **AJDs**, please complete an Approved Jurisdictional Determination Form<sup>8</sup>
- ☐ Vicinity Map
- ☐ Aerial Photograph
- ☐ USGS Topographic Map
- ☐ Soil Survey Map
- ☐ Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)
- ☐ Landscape Photos (if taken)
- ☐ NCSAM and/or NCWAM Assessment Forms and Rating Sheets
- ☐ NC Division of Water Resources Stream Identification Forms
- ☐ Other Assessment Forms

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<sup>7</sup> [www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL\\_08-02\\_App\\_A\\_Prelim\\_JD\\_Form\\_fillable.pdf](http://www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL_08-02_App_A_Prelim_JD_Form_fillable.pdf)

<sup>8</sup> 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.

## Preliminary ORM Data Entry Fields for New Actions

ACTION ID #: SAW-

Begin Date (Date Received):

Prepare file folder

Assign Action ID Number in ORM

1. Project Name [PCN Form A2a]:

2. Work Type:      Private      Institutional      Government      Commercial

3. Project Description / Purpose [PCN Form B3d and B3e]:

4. Property Owner / Applicant [PCN Form A3 or A4]:

5. Agent / Consultant [PNC Form A5 – or ORM Consultant ID Number]:

6. Related Action ID Number(s) [PCN Form B5b]:

7. Project Location – Coordinates, Street Address, and/or Location Description [PCN Form B1b]:

8. Project Location – Tax Parcel ID [PCN Form B1a]:

9. Project Location – County [PCN Form A2b]:

10. Project Location – Nearest Municipality or Town [PCN Form A2c]:

11. Project Information – Nearest Waterbody [PCN Form B2a]:

12. Watershed / 8-Digit Hydrologic Unit Code [PCN Form B2c]:

Authorization: Section 10

Section 404

Section 10 and 404

Regulatory Action Type:

Standard Permit

Nationwide Permit #

Regional General Permit #

Jurisdictional Determination Request

Pre-Application Request

Unauthorized Activity

Compliance

No Permit Required

[illegible]



- 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 PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☐ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: \_\_\_\_\_.
- ☐ Data sheets prepared/submitted by or on behalf of the PJD requestor.  
☐ Office concurs with data sheets/delineation report.  
☐ Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_.
- ☐ 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: \_\_\_\_\_.
- ☐ Natural Resources Conservation Service Soil Survey. Citation: \_\_\_\_\_.
- ☐ National wetlands inventory map(s). Cite name: \_\_\_\_\_.
- ☐ State/local wetland inventory map(s): \_\_\_\_\_.
- ☐ FEMA/FIRM maps: \_\_\_\_\_.
- ☐ 100-year Floodplain Elevation is: \_\_\_\_\_.(National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☐ Aerial (Name & Date): \_\_\_\_\_.  
or ☐ Other (Name & Date): \_\_\_\_\_.
- ☐ Previous determination(s). File no. and date of response letter: \_\_\_\_\_.
- ☐ Other information (please specify): \_\_\_\_\_.

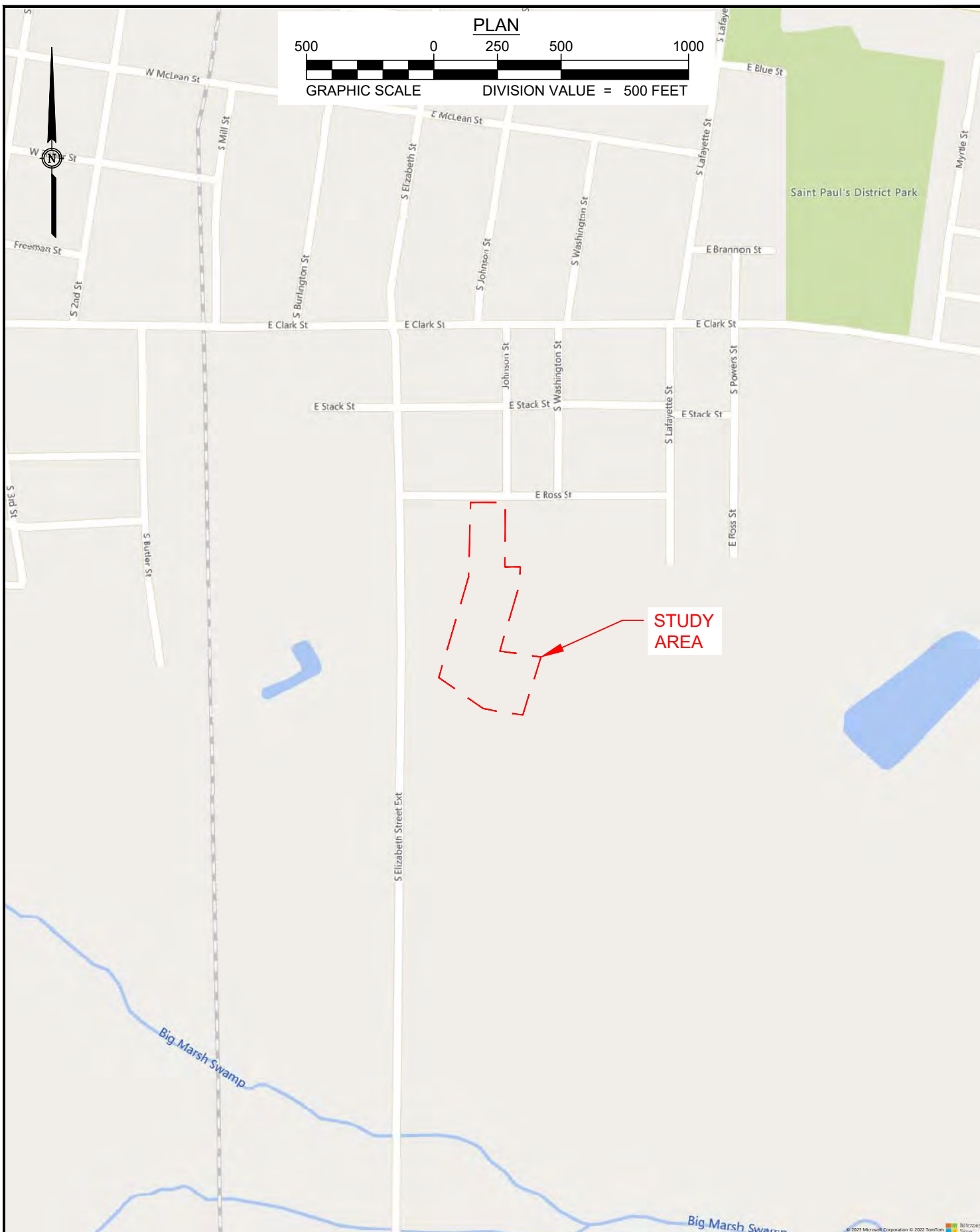
**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

\_\_\_\_\_  
Signature and date of  
Regulatory staff member  
completing PJD

*Jon Swain* 2/8/2023  
\_\_\_\_\_  
Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> 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.

P:\2021\21.04018-STPAULS-SNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\FIGURES.DWG PLOT DATE 2/7/2023 8:26 AM ALEX LOWDERMILK



1240 19th Street Lane NW  
Hickory, NC 28601  
828.328.2024  
NC Firm License # C-0459  
mcgillassociates.com

DATE  
2/7/2023

PROJECT #  
21.04018

PROJECT MANAGER  
D. SABEH

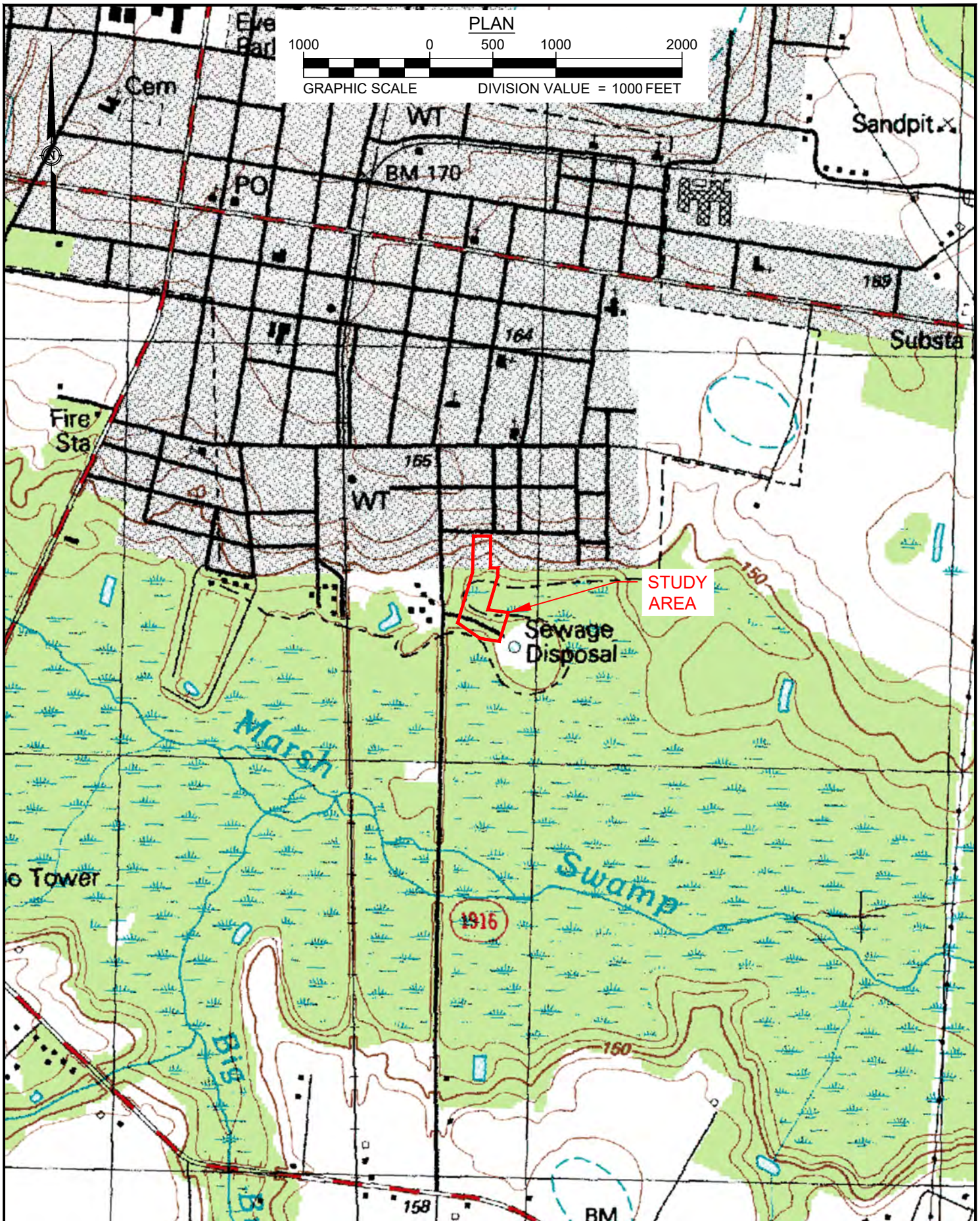
ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

LOCATION MAP

FIGURE

1





P:\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\FIGURES\DWG PLOT DATE 2/7/2023 8:31 AM ALEX LOWDERMILK



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Hickory, NC 28601  
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2/7/2023

PROJECT #  
21.04018

PROJECT MANAGER  
D. SABEH

ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

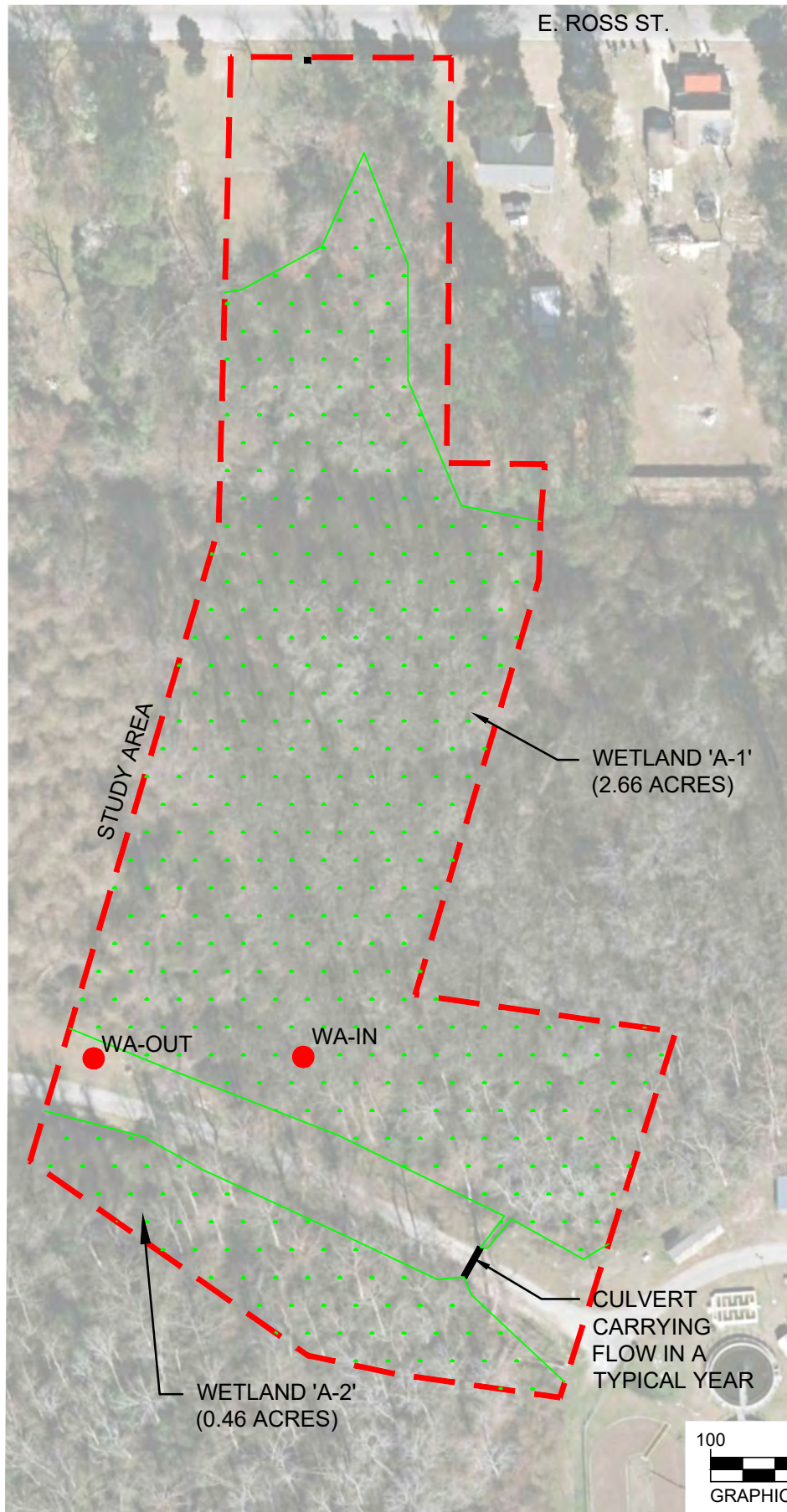
USGS LOCATION MAP

FIGURE

2



P:\2021\21 04018-STPAULS-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DESIGN\PERMITS\404-401\JD\DELINERATIONMAP\_2\_6\_2023.DWG PLOT DATE 2/8/2023 10:38 AM ALEX LOWDERMILK



#### NOTES:

1. JURISDICTIONAL AQUATIC RESOURCES IDENTIFIED ON THIS MAP HAVE BEEN LOCATED WITHIN SUB-METER ACCURACY UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) AND THE SUBSEQUENT DIFFERENTIAL CORRECTION OF THAT DATA. GPS POINTS MAY DEMONSTRATE UNCORRECTABLE ERRORS DUE TO TOPOGRAPHY, VEGETATIVE COVER, AND/OR MULTIPATH SIGNAL ERROR.
2. THE ILLUSTRATED AQUATIC RESOURCE LOCATIONS ARE APPROXIMATE. THESE AREAS HAVE BEEN FLAGGED IN THE FIELD; HOWEVER, THEY HAVE NOT BEEN SURVEYED. ALTHOUGH MCGILL ASSOCIATES, P.A. (MCGILL) IS CONFIDENT IN OUR ASSESSMENT, THE US ARMY CORPS OF ENGINEERS IS THE ONLY AGENCY THAT CAN MAKE FINAL DECISIONS REGARDING JURISDICTIONAL WETLANDS AND WATERS OF THE US.
3. THIS MAP WAS PREPARED BY MCGILL USING THE BEST INFORMATION AVAILABLE TO MCGILL AT THE TIME OF PRODUCTION. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED TO DETERMINE PRECISE BOUNDARIES, ROADWAYS, PROPERTY BOUNDARY LINES, NOR LEGAL DESCRIPTIONS. THIS MAP SHALL NOT BE CONSTRUED TO BE AN OFFICIAL SURVEY OF ANY DATA DEPICTED.
4. BASE INFORMATION PROVIDED BY ROBESON COUNTY GIS.

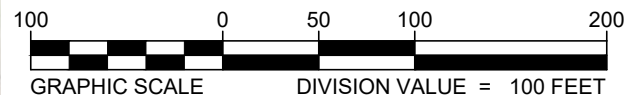
## Legend

Study Area

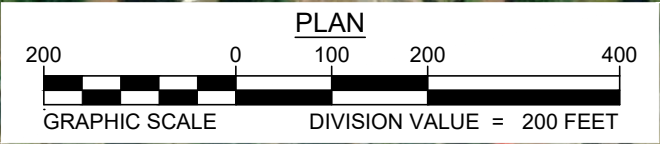
Existing Culverts

Total Jurisdictional Wetlands (3.123 ac.)

Data Point







P:\2021\21.04018-STPAULSNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\FIGURES\DWG PLOT DATE 2/7/2023 8:15 AM ALEX LOWDERMILK

 1240 19th Street Lane NW  
Hickory, NC 28601  
828.328.2024  
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DATE
2/7/2023
PROJECT #
21.04018
PROJECT MANAGER
D. SABEH

ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NATIONAL WETLAND  
INVENTORY MAP

FIGURE  
**4**





**Photo One: View looking northwest at Wetland A-1.**



**Photo Two: View looking north within Wetland A-1 near the wastewater treatment plant access road.**



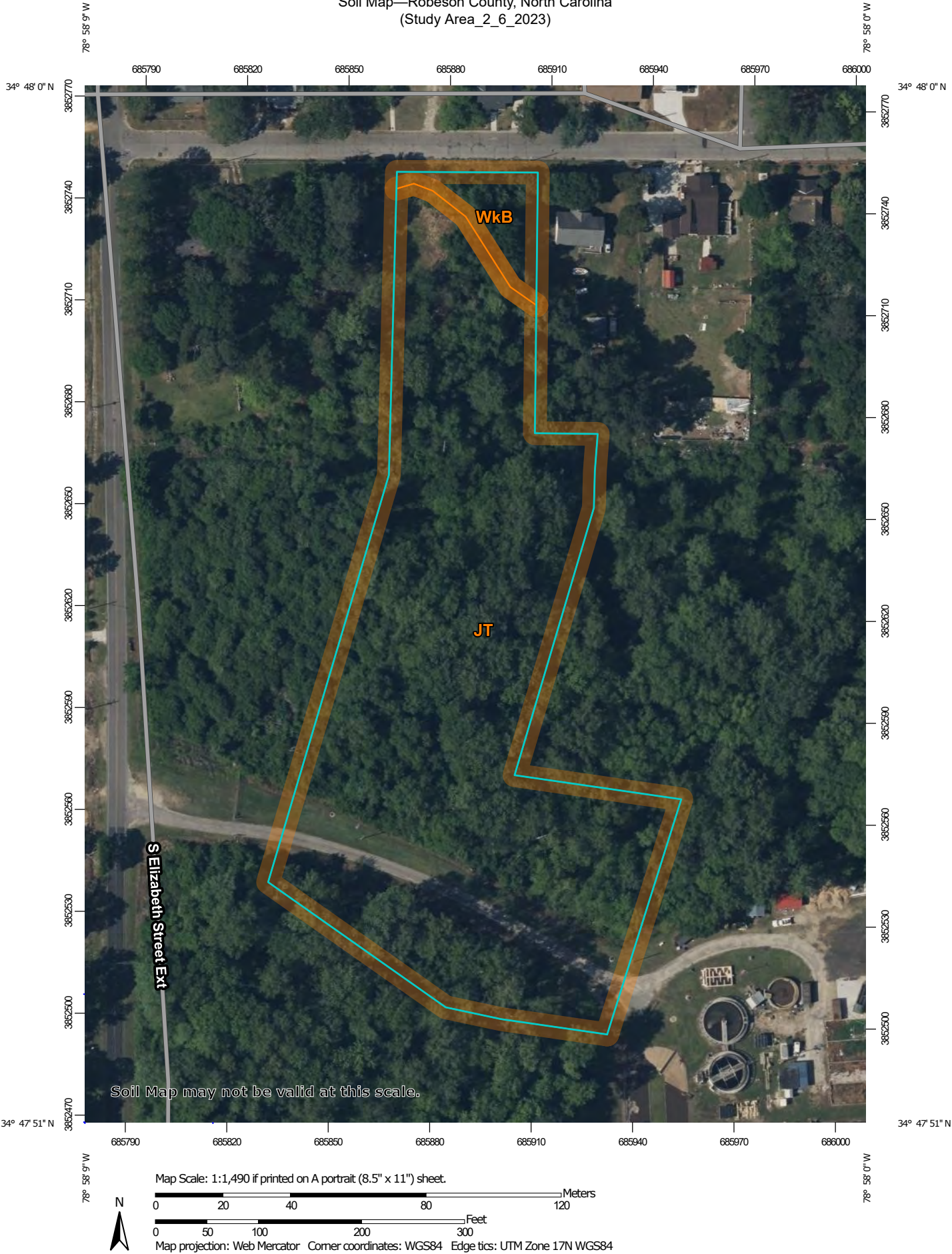
**Photo Three: View looking south at Wetland A-1 near E Ross Street.**



**Photo Four: View looking south at culvert outlet near Wetland A-2 .**



Soil Map—Robeson County, North Carolina  
(Study Area\_2\_6\_2023)



## 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: Robeson County, North Carolina

Survey Area Data: Version 21, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2022—May 15, 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
JT	Johnston soils	3.9	95.5%
WkB	Wakulla sand, 0 to 6 percent slopes	0.2	4.5%
<b>Totals for Area of Interest</b>		<b>4.0</b>	<b>100.0%</b>



<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region</b> 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: Elizabeth-Johnson Street Storm Drainage City/County: Robeson Sampling Date: 10/13/21

Applicant/Owner: Town of St. Pauls State: NC Sampling Point: WA-IN

Investigator(s): Jonathan Herman Section, Township, Range: \_\_\_\_\_

Landform (hillside, terrace, etc.): floodplain/tread Local relief (concave, convex, none): Flat Slope (%): 1

Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_

Soil Map Unit Name: Johnston (JT) NWI classification: PFO1C

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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____
Remarks:	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators</u> (minimum of one is required; check all that apply)		<u>Secondary Indicators</u> (minimum of two required)
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input checked="" type="checkbox"/> Surface Water (A1)  <input type="checkbox"/> High Water Table (A2)  <input checked="" type="checkbox"/> Saturation (A3)  <input type="checkbox"/> Water Marks (B1)  <input type="checkbox"/> Sediment Deposits (B2)  <input type="checkbox"/> Drift Deposits (B3)  <input type="checkbox"/> Algal Mat or Crust (B4)  <input type="checkbox"/> Iron Deposits (B5)  <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)  <input checked="" type="checkbox"/> Water-Stained Leaves (B9)           </div> <div style="width: 48%;"> <input type="checkbox"/> Aquatic Fauna (B13)  <input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b>  <input type="checkbox"/> Hydrogen Sulfide Odor (C1)  <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Presence of Reduced Iron (C4)  <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)  <input type="checkbox"/> Thin Muck Surface (C7)  <input type="checkbox"/> Other (Explain in Remarks)           </div> </div>		<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum Moss (D8) <b>(LRR T, U)</b>
<b>Field Observations:</b> Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u>X</u> 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: WA-IN

Tree Stratum (Plot size: <u>100</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Magnolia virginiana</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Liriodendron tulipifera</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Nyssa sylvatica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Acer rubrum</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
40 = Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>50</u></td> <td>x 1 = <u>50</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>45</u></td> <td>x 3 = <u>135</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>245</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>50</u>	x 1 = <u>50</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>45</u>	x 3 = <u>135</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>245</u> (B)	Prevalence Index = B/A = <u>2.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>50</u>	x 1 = <u>50</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>45</u>	x 3 = <u>135</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u> (A)	<u>245</u> (B)																			
Prevalence Index = B/A = <u>2.04</u>																				
50% of total cover: <u>20</u> 20% of total cover: <u>8</u>																				
Sapling/Shrub Stratum (Plot size: <u>100</u> )																				
1. <u>Ligustrum sinense</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. <u>Acer rubrum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Cyrilla racemiflora</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Magnolia virginiana</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
30 = Total Cover																				
50% of total cover: <u>15</u> 20% of total cover: <u>6</u>																				
Herb Stratum (Plot size: <u>100</u> )																				
1. <u>Saururus cernuus</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  <b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vine</b> – All woody vines greater than 3.28 ft in height.																
2. <u>Woodwardia areolata</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
50 = Total Cover																				
50% of total cover: <u>25</u> 20% of total cover: <u>10</u>																				
Woody Vine Stratum (Plot size: _____ )																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____      20% of total cover: _____																				

Remarks: (If observed, list morphological adaptations below.)

## SOIL

Sampling Point: WA-IN**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 2/1	100					Mucky Loam/Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Barrier Islands 1 cm Muck (S12)
<input type="checkbox"/> Black Histic (A3)	<b>(MLRA 153B, 153D)</b>
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)	<input type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Muck Presence (A8) (LRR U)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Marl (F10) (LRR U)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)	<input checked="" type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Delta Ochric (F17) (MLRA 151)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)
<input type="checkbox"/> Polyvalue Below Surface (S8)	<b>(MLRA 149A, 153C, 153D)</b>
<b>(LRR S, T, U)</b>	<input type="checkbox"/> Very Shallow Dark Surface (F22)
	<b>(MLRA 138, 152A in FL, 154)</b>

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

<input type="checkbox"/> 1 cm Muck (A9) (LRR O)
<input type="checkbox"/> 2 cm Muck (A10) (LRR S)
<input type="checkbox"/> Coast Prairie Redox (A16)
<b>(outside MLRA 150A)</b>
<input type="checkbox"/> Reduced Vertic (F18)
<b>(outside MLRA 150A, 150B)</b>
<input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, T)
<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)
<b>(MLRA 153B)</b>
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<b>(outside MLRA 138, 152A in FL, 154)</b>
<input type="checkbox"/> Barrier Islands Low Chroma Matrix (TS7)
<b>(MLRA 153B, 153D)</b>
<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>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:

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region</b> 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: Elizabeth-Johnson Street Storm Drainage City/County: Robeson Sampling Date: 10/13/21

Applicant/Owner: Town of St. Pauls State: NC Sampling Point: WA-OUT

Investigator(s): Jonathan Herman Section, Township, Range: Town of St. Pauls

Landform (hillside, terrace, etc.): road embankment Local relief (concave, convex, none): Flat Slope (%): 3

Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: 34.7983 Long: -78.9685 Datum:

Soil Map Unit Name:  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 <u></u> No <u>X</u> Hydric Soil Present? Yes <u></u> No <u>X</u> Wetland Hydrology Present? Yes <u></u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u></u> No <u>X</u>
Remarks:	

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b> <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum Moss (D8) <b>(LRR T, U)</b>	
<b>Field Observations:</b> Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> Saturation Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u></u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: WA-OUT

Tree Stratum (Plot size: <u>10</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
=Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: <u>10</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
=Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>10</u> )																				
1. <i>Festuca rubra</i>	70	Yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>    </u> 2 - Dominance Test is >50% <u>    </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. <i>Elymus repens</i>	30	Yes	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
100 =Total Cover																				
50% of total cover: <u>50</u> 20% of total cover: <u>20</u>																				
Woody Vine Stratum (Plot size: <u>10</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (If observed, list morphological adaptations below.)																				

**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           No   X



## SOIL

Sampling Point: WA-OUT

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/2	100					Sandy	
6-12	10YR 6/3	100					Sandy	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Thin Dark Surface (S9) <b>(LRR S, T, U)</b>			<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR O)</b>		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Barrier Islands 1 cm Muck (S12)			<input type="checkbox"/> 2 cm Muck (A10) <b>(LRR S)</b>		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>			<input type="checkbox"/> Coast Prairie Redox (A16)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(LRR O)</b>			<input type="checkbox"/> <b>(outside MLRA 150A)</b>		
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Reduced Vertic (F18)		
<input type="checkbox"/> Organic Bodies (A6) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Depleted Matrix (F3)			<input type="checkbox"/> <b>(outside MLRA 150A, 150B)</b>		
<input type="checkbox"/> 5 cm Mucky Mineral (A7) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Redox Dark Surface (F6)			<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(LRR P, T)</b>		
<input type="checkbox"/> Muck Presence (A8) <b>(LRR U)</b>			<input type="checkbox"/> Depleted Dark Surface (F7)			<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)		
<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR P, T)</b>			<input type="checkbox"/> Redox Depressions (F8)			<input type="checkbox"/> <b>(MLRA 153B)</b>		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Marl (F10) <b>(LRR U)</b>			<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Ochric (F11) <b>(MLRA 151)</b>			<input type="checkbox"/> Very Shallow Dark Surface (F22)		
<input type="checkbox"/> Coast Prairie Redox (A16) <b>(MLRA 150A)</b>			<input type="checkbox"/> Iron-Manganese Masses (F12) <b>(LRR O, P, T)</b>			<input type="checkbox"/> <b>(outside MLRA 138, 152A in FL, 154)</b>		
<input type="checkbox"/> Sandy Mucky Mineral (S1) <b>(LRR O, S)</b>			<input type="checkbox"/> Umbric Surface (F13) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Barrier Islands Low Chroma Matrix (TS7)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Delta Ochric (F17) <b>(MLRA 151)</b>			<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>		
<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Reduced Vertic (F18) <b>(MLRA 150A, 150B)</b>			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b>					
<input type="checkbox"/> Dark Surface (S7) <b>(LRR P, S, T, U)</b>			<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)					
<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> <b>(MLRA 149A, 153C, 153D)</b>					
<input type="checkbox"/> <b>(LRR S, T, U)</b>			<input type="checkbox"/> Very Shallow Dark Surface (F22)					
			<input type="checkbox"/> <b>(MLRA 138, 152A in FL, 154)</b>					
<b>Restrictive Layer (if observed):</b>								
Type: _____								
Depth (inches): _____								
						<b>Hydric Soil Present?</b> Yes _____ No <u>X</u> _____		
Remarks:								



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

ELIZABETH S. BISER  
Secretary

To: Crystal Best  
State Clearinghouse  
NC Department of Administration

From: Lyn Hardison  
Division of Environmental Assistance and Customer Service  
Washington Regional Office

RE: 22-0214  
Environmental Assessment – Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping for the conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.  
Robeson County

Date: May 12, 2022

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 to help minimize impacts to aquatic, terrestrial wildlife, and natural resources. The comments are attached for the applicant's review. 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



North Carolina Department of Environmental Quality

217 West Jones Street | 1601 Mail Service Center | Raleigh, North Carolina 27699-1601

919.707.8600



☒ NORTH CAROLINA WILDLIFE RESOURCES COMMISSION ☒

Cameron Ingram, Executive Director

**MEMORANDUM**

TO: Lyn Hardison, Environmental Assistance Coordinator  
NCDEQ Division of Environmental Assistance and Customer Services

FROM: Gabriela Garrison  
Eastern Piedmont Coordinator  
Habitat Conservation *Gabriela Garrison*

DATE: May 11, 2022

SUBJECT: Comments for Environmental Review for Town of St. Pauls Stormwater Conveyance Infrastructure Upgrade, Robeson County, DEQ Project No. 22-0214.

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the subject document. Comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e), North Carolina Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and North Carolina General Statutes (G.S. 113-131 et seq.).

The Town of St. Pauls (Town) proposes a system of stormwater improvements that will carry future stormwater events south of residential areas and connect with the Town's stormwater processing infrastructure. Proposed improvements will include catch basins and varying sizes of reinforced concrete piping, buried underground in previously disturbed areas. The project would be implemented in the vicinity of South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

Aerial images and maps indicate Big Marsh Swamp flows south of the proposed project area. Placing fill in aquatic systems or impacting riparian buffers can alter hydrology, resulting in significant negative impacts to downstream areas and eliminating aquatic and terrestrial wildlife habitat. In addition, increased stormwater runoff can impact stream morphology. This will cause further degradation of aquatic habitat through accelerated stream bank erosion, channel and bedload changes, altered substrates, and scouring of stream channels. Pollutants (e.g., sediment, heavy metals, pesticides, and fertilizers) washed from developed landscapes can adversely affect and extirpate aquatic species downstream. As such, riparian habitat and floodplains are extremely valuable for conveying flood waters, thereby reducing the severity and frequency of large flooding events. This important feature has become increasingly significant as severe storm events have become more prevalent in recent years. The NCWRC offers the following recommendations to minimize impacts to aquatic and terrestrial wildlife resources:

1. Maintain a minimum 100-foot undisturbed, native, forested buffer along perennial streams, and a minimum 50-foot buffer along intermittent streams and wetlands. Maintaining undisturbed, forested buffers along these areas will minimize impacts to aquatic and terrestrial wildlife resources. Wide riparian buffers are helpful in maintaining stream bank stability. In addition, these buffers provide a travel corridor for wildlife species. Lay down

May 11, 2022

Town of St. Pauls Stormwater Conveyance Infrastructure Upgrade

DEQ Project No. 22-0214

and staging areas should be located outside wetland areas and at least 100 feet from stream banks.

2. The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. In addition to providing wildlife habitat, wetland areas and streams aid in flood control and water quality protection. United States Army Corps of Engineers Section 404 Permits and NC Division of Water Resources Section 401 Certifications are required for any impacts to jurisdictional streams or wetlands. Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.
3. Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife. Avoid fescue-based mixtures as fescue is invasive and provides little benefit to wildlife. Native, annual small grains appropriate for the season are preferred and recommended. Pollinator mixes are commercially available and provide forage and shelter for numerous species of bees, butterflies, moths, and birds.
4. Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Silt fencing, fiber rolls and/or other products should have loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines. Silt fencing and similar products that have been reinforced with plastic or metal mesh should be avoided as they impede the movement of terrestrial wildlife species. Excessive silt and sediment loads can have detrimental effects on aquatic resources including destruction of spawning habitat, suffocation of eggs, and clogging of gills.

The NCWRC encourages the applicant to consider additional measures to protect aquatic and terrestrial wildlife species in developing landscapes. The NCWRC's *Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality* (August 2002; [http://www.ncwildlife.org/Portals/0/Conserving/documents/2002\\_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf](http://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf)) details measures to minimize secondary and cumulative impacts to aquatic and terrestrial wildlife resources; in addition, the Green Growth Toolbox (<https://www.ncwildlife.org/conserving/programs/Green-Growth-Toolbox>) provides information on nature-friendly planning that discusses how to address growth while concurrently conserving priority terrestrial and aquatic habitat.

Thank you for the opportunity to review and comment on this project. If I can be of further assistance, please contact me at (910) 409-7350 or [gabriela.garrison@ncwildlife.org](mailto:gabriela.garrison@ncwildlife.org).

## **ATTACHMENT 9:**

### **Farmland Protection**



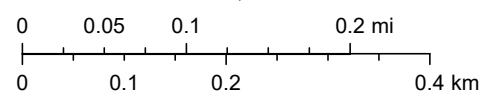
# St. Pauls Flood Improvements - USGS Topo Map



July 16, 2023

1:9,028

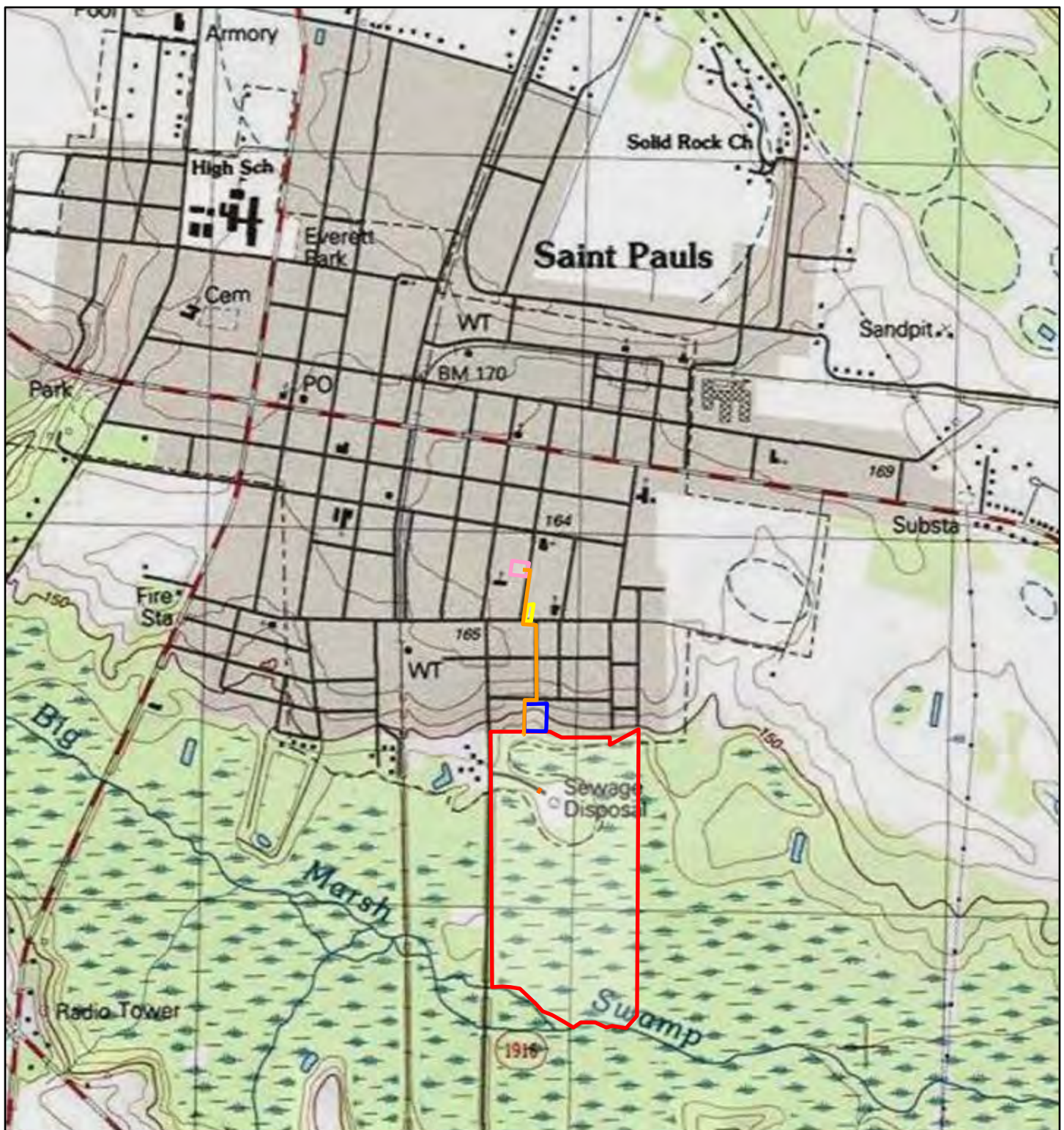
- St. Pauls' Southern Project
- St. Pauls' Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



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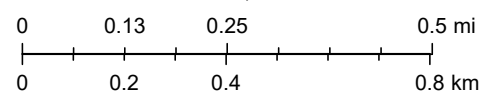
# St. Pauls Flood Improvements - USGS Topo Map



July 16, 2023

- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP

1:18,056



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# Topographic Map Symbols

## What is a Topographic Map?

A map is a representation of the Earth, or part of it. The distinctive characteristic of a topographic map is that the shape of the Earth's surface is shown by contour lines. Contours are imaginary lines that join points of equal elevation on the surface of the land above or below a reference surface, such as mean sea level. Contours make it possible to measure the height of mountains, depths of the ocean bottom, and steepness of slopes.

A topographic map shows more than contours. The map includes symbols that represent such features as streets, buildings, streams, and vegetation. These symbols are constantly refined to better relate to the features they represent, improve the appearance or readability of the map, or reduce production cost.

Consequently, within the same series, maps may have slightly different symbols for the same feature. Examples of symbols that have changed include built-up areas, roads, intermittent drainage, and some lettering styles. On one type of large-scale topographic map, called provisional, some symbols and lettering are hand-drawn.

## Reading Topographic Maps

Interpreting the colored lines, areas, and other symbols is the first step in using topographic maps. Features are shown as points, lines, or areas, depending on their size and extent. For example, individual houses may be shown as small black squares. For larger buildings, the actual shapes are mapped. In densely built-up areas, most individual buildings are omitted and an area tint is shown. On some maps, post offices, churches, city halls, and other landmark buildings are shown within the tinted area.

The first features usually noticed on a topographic map are the area features, such as vegetation (green), water (blue), and densely built-up areas (gray or red).

Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information: topographic contours (brown); lakes, streams, irrigation ditches, and other hydrographic features (blue); land grids and important roads (red); and other roads and trails, railroads, boundaries, and other cultural features (black). At one time, purple was used as a revision color to show all feature changes. Currently, purple is not used in our revision program, but purple features are still present on many existing maps.

Various point symbols are used to depict features such as buildings, campgrounds, springs, water tanks, mines, survey control points, and wells. Names of places and features are shown in a color corresponding to the type of feature. Many features are identified by labels, such as "Substation" or "Golf Course."

Topographic contours are shown in brown by lines of different widths. Each contour is a line of equal elevation; therefore, contours never cross. They show the general shape of the terrain. To help the user determine elevations, index contours are wider. Elevation values are printed in several places along these lines. The narrower intermediate and supplementary contours found between the index contours help to show more details of the land surface shape. Contours that are very close together represent steep slopes. Widely spaced contours or an absence of contours means that the ground slope is relatively level. The elevation difference between adjacent contour lines, called the contour interval, is selected to best show the general shape of the terrain. A map of a relatively flat area may have a contour interval of 10 feet or less. Maps in mountainous areas may have contour intervals of 100 feet or more. The contour interval is printed in the margin of each U.S. Geological Survey (USGS) map.

Bathymetric contours are shown in blue or black, depending on their location. They show the shape and slope of the ocean bottom surface. The bathymetric contour interval may vary on each map and is explained in the map margin.

BATHYMETRIC FEATURES

Area exposed at mean low tide; sounding datum line***	
Channel***	
Sunken rock***	

BOUNDARIES

National	
State or territorial	
County or equivalent	
Civil township or equivalent	
Incorporated city or equivalent	
Federally administered park, reservation, or monument (external)	
Federally administered park, reservation, or monument (internal)	
State forest, park, reservation, or monument and large county park	
Forest Service administrative area*	
Forest Service ranger district*	
National Forest System land status, Forest Service lands*	
National Forest System land status, non-Forest Service lands*	
Small park (county or city)	

BUILDINGS AND RELATED FEATURES

Building	
School; house of worship	
Athletic field	
Built-up area	
Forest headquarters*	
Ranger district office*	
Guard station or work center*	
Racetrack or raceway	
Airport, paved landing strip, runway, taxiway, or apron	
Unpaved landing strip	
Well (other than water), windmill or wind generator	
Tanks	
Covered reservoir	
Gaging station	
Located or landmark object (feature as labeled)	
Boat ramp or boat access*	
Roadside park or rest area	
Picnic area	
Campground	
Winter recreation area*	
Cemetery	

COASTAL FEATURES

Foreshore flat	
Coral or rock reef	
Rock, bare or awash; dangerous to navigation	
Group of rocks, bare or awash	
Exposed wreck	
Depth curve; sounding	
Breakwater, pier, jetty, or wharf	
Seawall	
Oil or gas well; platform	

CONTOURS

Topographic

Index	
Approximate or indefinite	
Intermediate	
Approximate or indefinite	
Supplementary	
Depression	
Cut	
Fill	
Continental divide	

Bathymetric

Index***	
Intermediate***	
Index primary***	
Primary***	
Supplementary***	

CONTROL DATA AND MONUMENTS

Principal point**	
U.S. mineral or location monument	
River mileage marker	
Boundary monument	
Third-order or better elevation, with tablet	
Third-order or better elevation, recoverable mark, no tablet	
With number and elevation	
Horizontal control	
Third-order or better, permanent mark	
With third-order or better elevation	
With checked spot elevation	
Coincident with found section corner	
Unmonumented**	

CONTROL DATA AND MONUMENTS – *continued*

<b>Vertical control</b>		
Third-order or better elevation, with tablet	BM	✕ 5280
Third-order or better elevation, recoverable mark, no tablet		✕ 528
Bench mark coincident with found section corner	BM	<div><div></div><div>+</div><div></div></div> 5280
Spot elevation		✕ 7523

GLACIERS AND PERMANENT SNOWFIELDS

Contours and limits	
Formlines	
Glacial advance	
Glacial retreat	

LAND SURVEYS

<b>Public land survey system</b>		
Range or Township line		
Location approximate		
Location doubtful		
Protracted		
Protracted (AK 1:63,360-scale)		
Range or Township labels	R1E T2N R3W T4S	
Section line		
Location approximate		
Location doubtful		
Protracted		
Protracted (AK 1:63,360-scale)		
Section numbers	1 - 36	1 - 36
Found section corner		
Found closing corner		
Witness corner		
Meander corner		
Weak corner*		

Other land surveys

Range or Township line		
Section line		
Land grant, mining claim, donation land claim, or tract		
Land grant, homestead, mineral, or other special survey monument		
Fence or field lines		

MARINE SHORELINES

Shoreline		
Apparent (edge of vegetation)***		
Indefinite or unsurveyed		

MINES AND CAVES

Quarry or open pit mine		✕
Gravel, sand, clay, or borrow pit		✕
Mine tunnel or cave entrance		✕
Mine shaft		■
Prospect		x
Tailings		
Mine dump		
Former disposal site or mine		

PROJECTION AND GRIDS

Neatline	
Graticule tick	
Graticule intersection	
Datum shift tick	

State plane coordinate systems

Primary zone tick	
Secondary zone tick	
Tertiary zone tick	
Quaternary zone tick	
Quintary zone tick	

Universal transverse metcator grid

UTM grid (full grid)	
UTM grid ticks*	

RAILROADS AND RELATED FEATURES

Standard gauge railroad, single track	
Standard gauge railroad, multiple track	
Narrow gauge railroad, single track	
Narrow gauge railroad, multiple track	
Railroad siding	
Railroad in highway	
Railroad in road	
Railroad in light duty road*	
Railroad underpass; overpass	
Railroad bridge; drawbridge	
Railroad tunnel	
Railroad yard	
Railroad turntable; roundhouse	

RIVERS, LAKES, AND CANALS

Perennial stream	
Perennial river	
Intermittent stream	
Intermittent river	
Disappearing stream	
Falls, small	
Falls, large	
Rapids, small	
Rapids, large	
Masonry dam	
Dam with lock	
Dam carrying road	



RIVERS, LAKES, AND CANALS – *continued*

Perennial lake/pond	
Intermittent lake/pond	
Dry lake/pond	
Narrow wash	
Wide wash	
Canal, flume, or aqueduct with lock	
Elevated aqueduct, flume, or conduit	
Aqueduct tunnel	
Water well, geyser, fumarole, or mud pot	
Spring or seep	

ROADS AND RELATED FEATURES

Please note: Roads on Provisional-edition maps are not classified as primary, secondary, or light duty. These roads are all classified as improved roads and are symbolized the same as light duty roads.

Primary highway	
Secondary highway	
Light duty road	
Light duty road, paved*	
Light duty road, gravel*	
Light duty road, dirt*	
Light duty road, unspecified*	
Unimproved road	
Unimproved road*	
4WD road	
4WD road*	
Trail	
Highway or road with median strip	
Highway or road under construction	
Highway or road underpass; overpass	
Highway or road bridge; drawbridge	
Highway or road tunnel	
Road block, berm, or barrier*	
Gate on road*	
Trailhead*	

SUBMERGED AREAS AND BOGS

Marsh or swamp	
Submerged marsh or swamp	
Wooded marsh or swamp	
Submerged wooded marsh or swamp	
Land subject to inundation	

Max Pool 43!

SURFACE FEATURES

Levee	
Sand or mud	
Disturbed surface	
Gravel beach or glacial moraine	
Tailings pond	

TRANSMISSION LINES AND PIPELINES

Power transmission line; pole; tower	
Telephone line	
Aboveground pipeline	
Underground pipeline	

VEGETATION

Woodland	
Shrubland	
Orchard	
Vineyard	
Mangrove	

\* USGS-USDA Forest Service Single-Edition Quadrangle maps only.  
In August 1993, the U.S. Geological Survey and the U.S. Department of Agriculture’s Forest Service signed an Interagency Agreement to begin a single-edition joint mapping program. This agreement established the coordination for producing and maintaining single-edition primary series topographic maps for quadrangles containing National Forest System lands. The joint mapping program eliminates duplication of effort by the agencies and results in a more frequent revision cycle for quadrangles containing National Forests. Maps are revised on the basis of jointly developed standards and contain normal features mapped by the USGS, as well as additional features required for efficient management of National Forest System lands. Single-edition maps look slightly different but meet the content, accuracy, and quality criteria of other USGS products.

\*\* Provisional-Edition maps only.  
Provisional-edition maps were established to expedite completion of the remaining large-scale topographic quadrangles of the conterminous United States. They contain essentially the same level of information as the standard series maps. This series can be easily recognized by the title “Provisional Edition” in the lower right-hand corner.

\*\*\* Topographic Bathymetric maps only.

Topographic Map Information

For more information about topographic maps produced by the USGS, please call: 1-888-ASK-USGS or visit us at <http://ask.usgs.gov/>



United States  
Department of  
Agriculture

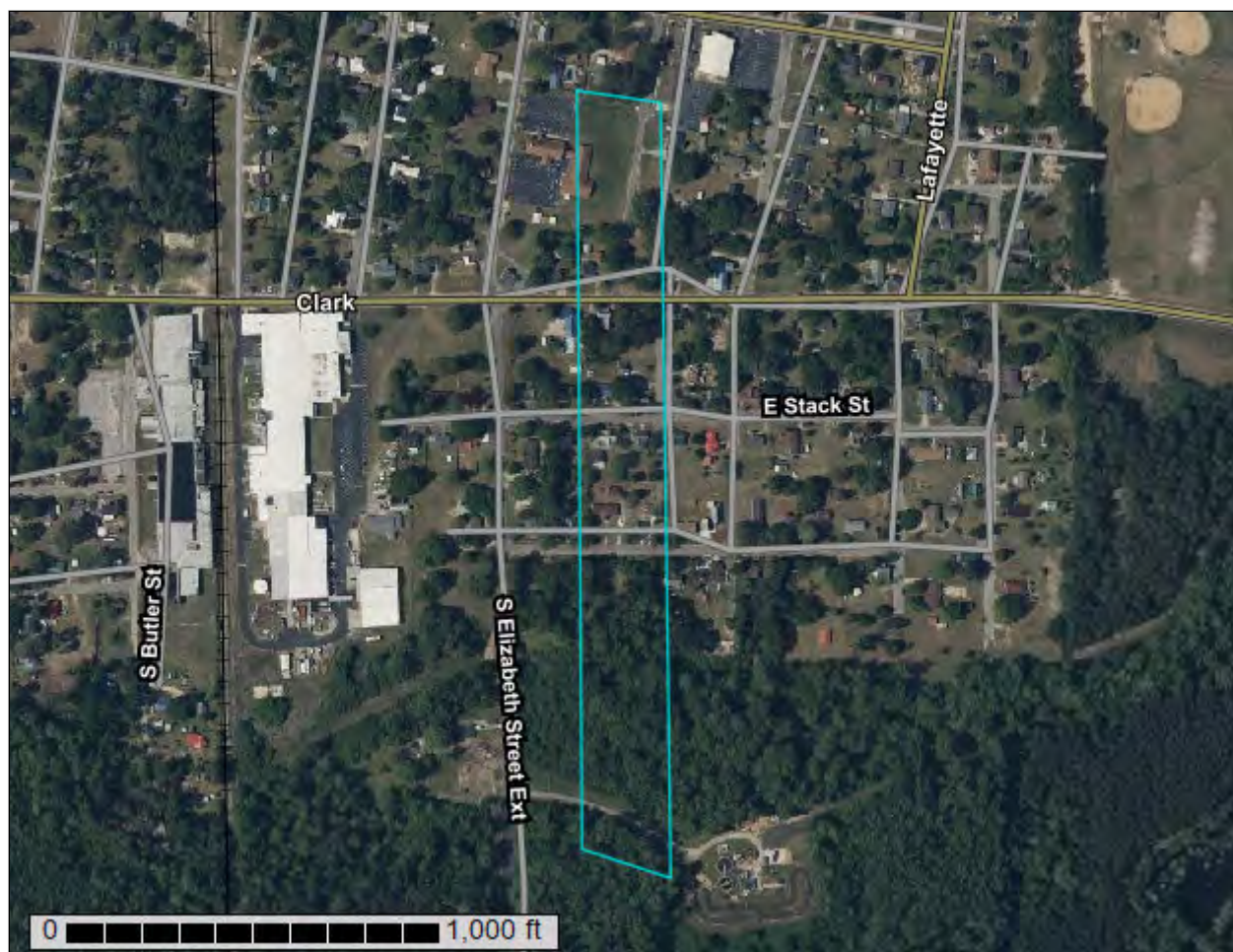
**NRCS**

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 **Robeson County, North Carolina**

## St. Pauls Flood Improvements



June 8, 2023

# Preface

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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](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.

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# How Soil Surveys Are Made

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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

## Custom Soil Resource Report

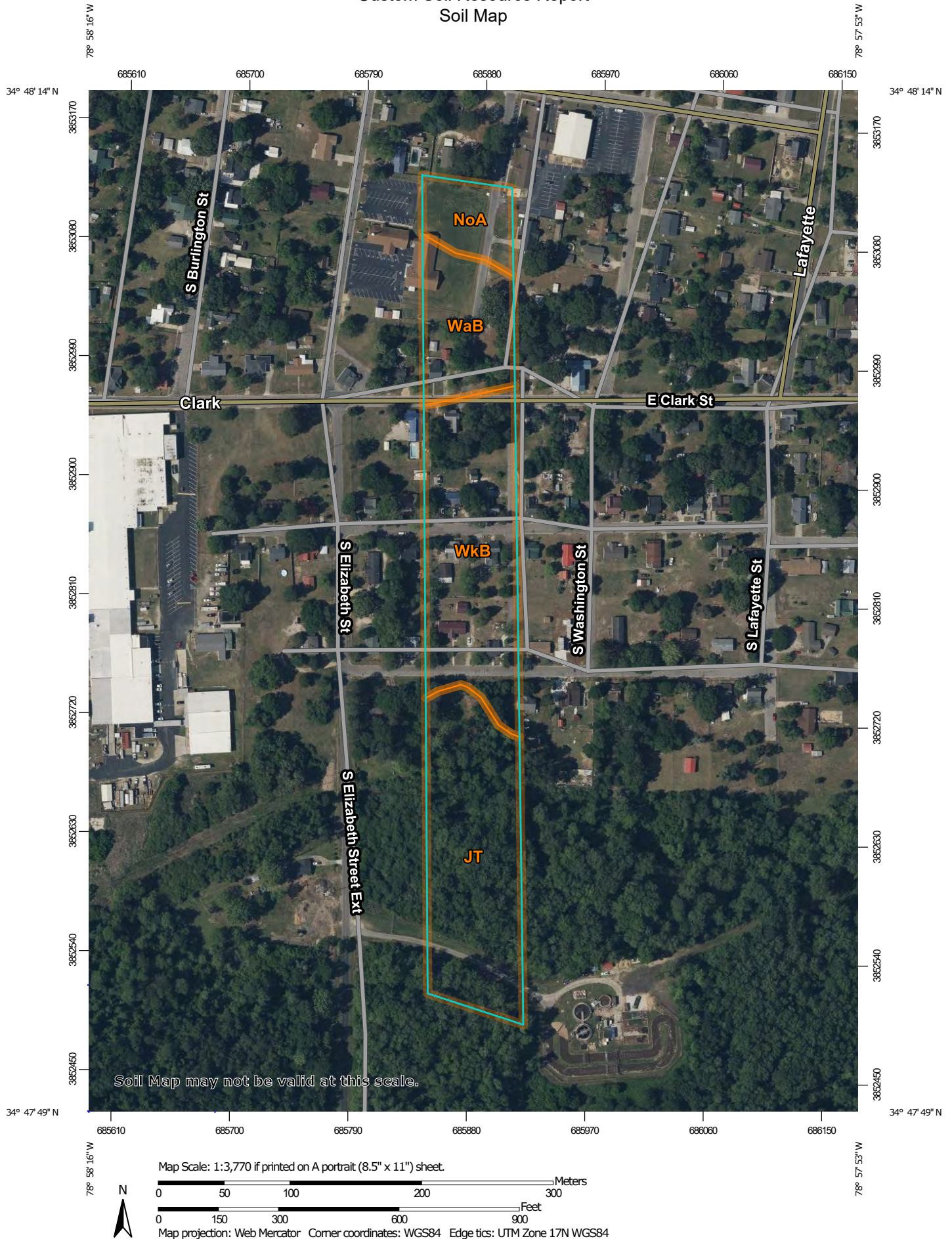
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# 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





# Custom Soil Resource Report

## 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: Robeson County, North Carolina  
Survey Area Data: Version 21, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2022—May 15, 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
JT	Johnston soils	4.1	37.6%
NoA	Norfolk loamy sand, 0 to 2 percent slopes	1.0	8.7%
WaB	Wagram loamy sand, 0 to 6 percent slopes	1.8	16.7%
WkB	Wakulla sand, 0 to 6 percent slopes	4.0	37.0%
<b>Totals for Area of Interest</b>		<b>10.9</b>	<b>100.0%</b>

## 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.

## Robeson County, North Carolina

### JT—Johnston soils

#### Map Unit Setting

*National map unit symbol:* 3vf6  
*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:* Not prime farmland

#### Map Unit Composition

*Johnston, undrained, and similar soils:* 85 percent  
*Johnston, drained, and similar soils:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Johnston, Undrained

#### Setting

*Landform:* Flood plains  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy alluvium

#### Typical profile

*A - 0 to 30 inches:* mucky loam  
*Cg1 - 30 to 34 inches:* loamy fine sand  
*Cg2 - 34 to 80 inches:* fine sandy loam

#### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Very poorly drained  
*Runoff class:* Ponded  
*Capacity of the most limiting layer to transmit water (Ksat):* High (1.98 to 5.95 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* NoneFrequent  
*Frequency of ponding:* Frequent  
*Available water supply, 0 to 60 inches:* High (about 9.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7w  
*Hydrologic Soil Group:* A/D  
*Hydric soil rating:* Yes

### Description of Johnston, Drained

#### Setting

*Landform:* Flood plains  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Sandy and loamy alluvium

**Typical profile**

*A - 0 to 30 inches:* mucky loam  
*Cg1 - 30 to 34 inches:* loamy fine sand  
*Cg2 - 34 to 80 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Very poorly drained  
*Runoff class:* Ponded  
*Capacity of the most limiting layer to transmit water (Ksat):* High (1.98 to 5.95 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* NoneFrequent  
*Frequency of ponding:* Frequent  
*Available water supply, 0 to 60 inches:* High (about 9.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* A/D  
*Hydric soil rating:* Yes

**NoA—Norfolk loamy sand, 0 to 2 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 2v75w  
*Elevation:* 10 to 330 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:* All areas are prime farmland

**Map Unit Composition**

*Norfolk and similar soils:* 83 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Norfolk**

**Setting**

*Landform:* Flats on marine terraces, broad interstream divides on marine terraces  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Loamy marine deposits

**Typical profile**

*Ap - 0 to 8 inches:* loamy sand  
*E - 8 to 14 inches:* loamy sand  
*Bt - 14 to 65 inches:* sandy clay loam



## Custom Soil Resource Report

*BC - 65 to 80 inches: sandy clay loam*

### Properties and qualities

*Slope: 0 to 2 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Well drained*

*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 40 to 72 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Available water supply, 0 to 60 inches: Moderate (about 6.9 inches)*

### Interpretive groups

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 1*

*Hydrologic Soil Group: A*

*Hydric soil rating: No*

## WaB—Wagram loamy sand, 0 to 6 percent slopes

### Map Unit Setting

*National map unit symbol: 3vg3*

*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

*Wagram and similar soils: 90 percent*

*Minor components: 5 percent*

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Wagram

#### Setting

*Landform: Ridges on marine terraces, broad interstream divides on marine terraces*

*Landform position (two-dimensional): Summit, shoulder*

*Landform position (three-dimensional): Crest*

*Down-slope shape: Convex*

*Across-slope shape: Convex*

*Parent material: Loamy marine deposits*

#### Typical profile

*Ap - 0 to 8 inches: loamy sand*

*E - 8 to 24 inches: loamy sand*

*Bt - 24 to 75 inches: sandy clay loam*

*BC - 75 to 83 inches: sandy loam*

### Properties and qualities

*Slope: 0 to 6 percent*

## Custom Soil Resource Report

*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 60 to 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Moderate (about 6.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2s

*Hydrologic Soil Group:* A

*Hydric soil rating:* No

### Minor Components

#### **Bibb, undrained**

*Percent of map unit:* 3 percent

*Landform:* Flood plains

*Landform position (two-dimensional):* Toeslope

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Hydric soil rating:* Yes

#### **Johnston, undrained**

*Percent of map unit:* 2 percent

*Landform:* Flood plains

*Down-slope shape:* Concave

*Across-slope shape:* Linear

*Hydric soil rating:* Yes

## WkB—Wakulla sand, 0 to 6 percent slopes

### Map Unit Setting

*National map unit symbol:* 3vg5

*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:* Not prime farmland

### Map Unit Composition

*Wakulla and similar soils:* 90 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Wakulla

### Setting

*Landform:* Ridges on marine terraces, broad interstream divides on marine 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 marine deposits and/or eolian sands

### Typical profile

*A - 0 to 7 inches:* sand

*E - 7 to 24 inches:* sand

*Bt - 24 to 42 inches:* loamy sand

*C - 42 to 85 inches:* sand

### Properties and qualities

*Slope:* 0 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Somewhat excessively drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (1.98 to 19.98 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:* Very low (about 2.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3s

*Hydrologic Soil Group:* A

*Hydric soil rating:* No

# **Soil Information for All Uses**

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## **Suitabilities and Limitations for Use**

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

## **Water Management**

Water Management interpretations are tools for evaluating the potential of the soil in the application of various water management practices. Example interpretations include pond reservoir area, embankments, dikes, levees, and excavated ponds.

### **Subsurface Water Management, System Installation (St. Pauls Flood Improvement)**

The ratings for Subsurface Water Management, System Installation are based on the soil properties that affect the capacity of the soil to be drained and on the properties that affect excavation and construction costs. The properties that affect the subsurface system installation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, slope, clay content, excavation stability, 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.

## Custom Soil Resource Report

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).

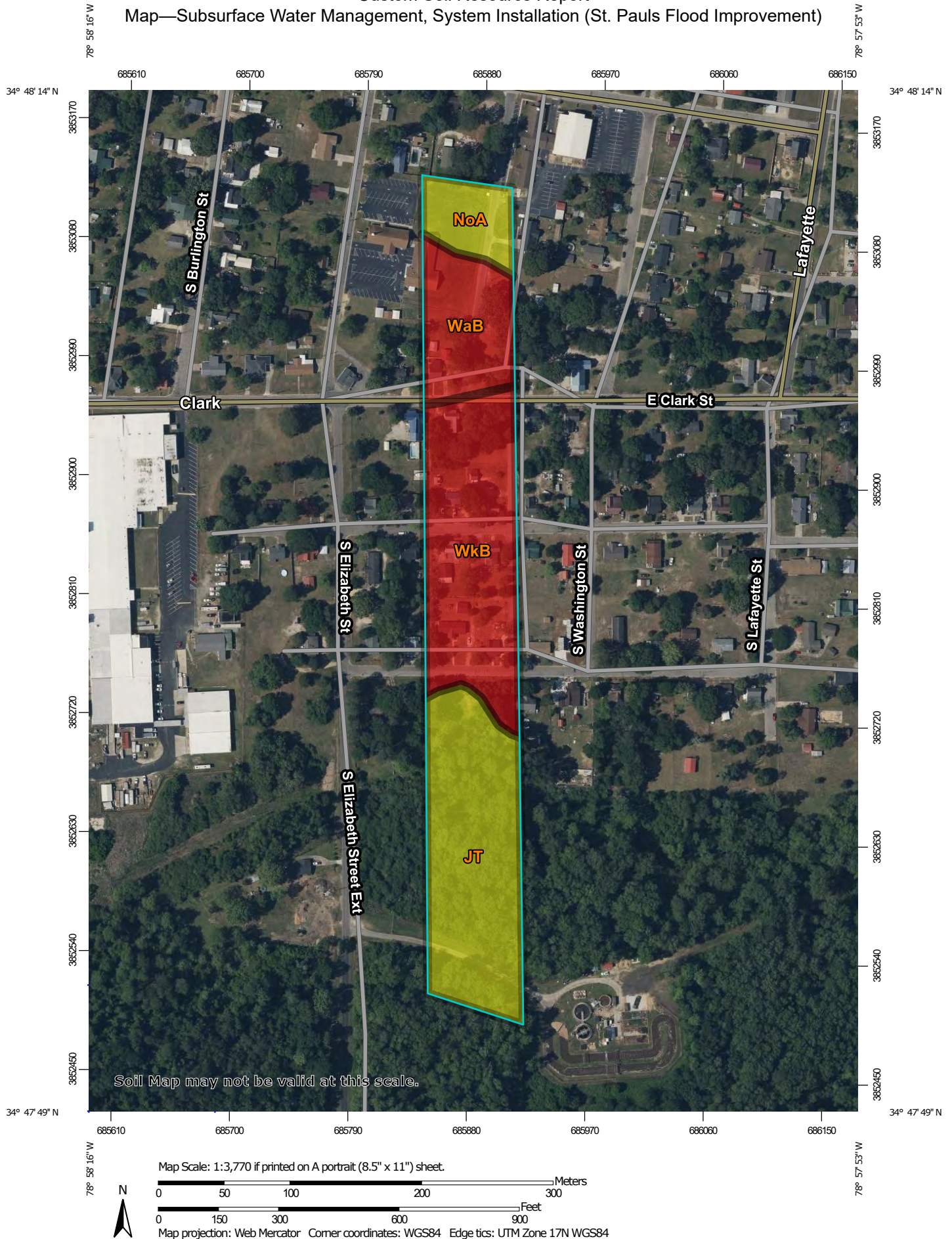
The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as that listed for the map unit. The percent composition of each component in a particular map unit is given so that the user will realize the percentage of each map unit that has the specified rating.

A map unit may have other components with different ratings. 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.



# Custom Soil Resource Report


## Map—Subsurface Water Management, System Installation (St. Pauls Flood Improvement)




## Custom Soil Resource Report

### MAP LEGEND

#### Area of Interest (AOI)





 Area of Interest (AOI)

#### Background





 Aerial Photography

#### 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

### 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: Robeson County, North Carolina  
Survey Area Data: Version 21, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2022—May 15, 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.

### Tables—Subsurface Water Management, System Installation (St. Pauls Flood Improvement)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
JT	Johnston soils	Somewhat limited	Johnston, undrained (85%)	Unstable excavation walls (0.01)	4.1	37.6%
			Johnston, drained (15%)	Unstable excavation walls (0.01)		
NoA	Norfolk loamy sand, 0 to 2 percent slopes	Somewhat limited	Norfolk (83%)	Unstable excavation walls (0.01)	1.0	8.7%
WaB	Wagram loamy sand, 0 to 6 percent slopes	Very limited	Wagram (90%)	Drainage not required (1.00)	1.8	16.7%
				Unstable excavation walls (0.01)		
WkB	Wakulla sand, 0 to 6 percent slopes	Very limited	Wakulla (90%)	Drainage not required (1.00)	4.0	37.0%
				Unstable excavation walls (1.00)		
Totals for Area of Interest					10.9	100.0%

Rating	Acres in AOI	Percent of AOI
Very limited	5.9	53.7%
Somewhat limited	5.1	46.3%
<b>Totals for Area of Interest</b>	<b>10.9</b>	<b>100.0%</b>

### Rating Options—Subsurface Water Management, System Installation (St. Pauls Flood Improvement)

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

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## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

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# Attachment 10

EO 11988 Floodplain Management and EO  
11990 Protection of Wetlands Determination

**Town of St. Pauls Flood Improvements Project**  
**EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination**  
***Infrastructure Recovery Program***

July 17, 2023

**Introduction & Overview**

The purpose of Executive Order (EO) 11988 Floodplain Management is “to avoid to the extent possible the long- and short-term adverse impacts associated with occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative.” 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.

The North Carolina Office of Recovery and Resiliency (NCORR) has received an application from the Town of St. Pauls 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 Town of St. Pauls Flood Improvements Project (“proposed action”) located at South Johnson Street, East Clark Street, East Ross Street and South Elizabeth Street; and Calvary Cornerstone Holiness Church; 400 East Ross Street; 401 East Clark Street; and Town of St. Pauls’ Waste Water Treatment Plant (WWTP) parcel in St. Pauls, Robeson County, NC 28384. The analysis that follows focuses on floodplain and wetland impacts, as there are direct wetland and floodplain impacts associated with this proposed action. Based on the type of land use and improvements, necessity, and other case characteristics described herein, it is concluded that there is a reasonable basis to proceed with funding for this proposed action within a floodplain and wetland. The CDBG-MIT funding is administered through the 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 & Land Use**

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). The proposed action is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The proposed action entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in mostly previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours. According to the Project Information Form dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during storm events.

The proposed action will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The proposed action will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and U.S. Army Corps of Engineers (USACE) verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C).

### **Applicable Regulatory Procedure Per EO 11988 and EO 11990**

The proposed action corresponds with a noncritical action not excluded under 24 CFR §55.12. Funding is permissible for use in the floodplain and wetland if the proposed action is processed under §55.20 and the findings of the determination are affirmative to suggest that the project may proceed.

In accordance with 24 CFR 55, the proposed action involves installation of stormwater improvements in Robeson County which is a participating community in good standing in the regular program of the National Flood Insurance Program (NFIP). Substantial Improvement/ Substantial Damage calculations do not apply to this proposed action. However, this proposed action involves "modification" of floodplain. As such, the full eight-step floodplain determination process in §55.20 is required, and the following analysis examines each step in an EO 11988 Floodplain Management Determination process.

Based on information from the USACE Nationwide Permit (NWP) 18 Permit Verification and Jurisdictional Determination (JD) (see **Appendix 1**), the proposed action involves "new construction" in wetlands for the installation of stormwater improvements as described above. 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 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 is Located in the 100-year Floodplain (500-year for Critical Actions) or results in New Construction in Wetlands.***

Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel 3720030800J, effective on 1/19/2005, the Subject Property is mostly located in Zone X (**Appendix 1**). 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 proposed action does not include an insurable structure according to the National Flood Insurance Program (NFIP) Flood Insurance Manual effective October 1, 2022. The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain and wetlands, approximately 49.37 acres and 62.2 acres respectively. As such, the full eight-step floodplain determination process in §55.20 is required,

and the following analysis examines each step in an EO 11988 Floodplain Management Determination process.

Based on the USACE NWP 18 Permit Verification and JD, the proposed action has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's (CWA) Section 404, as shown in **Appendix 1**. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland habitat classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP property with Parcel ID# 030890981900. According to the USFWS National Wetland Inventory Map, there is a former 0.40-acre Freshwater Pond habitat classified as PUBFh located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W). However, according to the USFWS NWI Coordinator, "[a]fter reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present." Therefore, the EO 11990 Protection of Wetlands Determination focuses only on the Big Marsh Swamp wetland. The full eight-step wetlands determination process in §55.20 is required, and the following analysis examines each step in an EO 11990 Protection of Wetlands Determination process.

The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources (DWR) CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies.

## **Step 2. Initiate Public Notice for Early Review of Proposal.**

Because the proposed action is located in floodplain and wetlands, NCORR published an early notice and posted supporting documentation 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 and included proposed project location maps with boundaries shown, USFWS NWI Maps (showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church), FEMA FIRMettes with parcel boundaries shown, USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts' Areas and Acreage. The early public notice and 15-day comment period is complete. No new, substantive public comments were received.

The early notice and corresponding 15-day public comment period started on June 10, 2023 with the "*Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain and Wetland*" being published in The Robesonian newspaper, with the 15-day period expiring on June 26, 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 June 9, 2023: HUD NC Field Office; Federal Emergency Management Agency (FEMA); 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 Robeson County and the Town of St. Pauls. Project information was sent to the NC State Historic Preservation Office (SHPO) and Catawba Indian Nation for review and comment under Section 106 of the National Historic Preservation Act of 1966 (NHPA) and a project notification letter was sent to the Lumbee Tribe of North Carolina (See *Town of St. Pauls Flood Improvements Project EA ERR*). (See **Appendix 2** for the early notice distributed to these agencies, the newspaper publication affidavit, and distribution documentation).



***Step 3. Identify and Evaluate Practicable Alternatives to Locating the Proposed Action in a 100-year Floodplain or 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.

This proposed action involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative routes and designs were considered during the design phase; however, the proposed action utilizes the most economical and direct route to convey stormwater to the larger drainage area of Big Marsh Swamp. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain

The main alternative is the "No Action" Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This proposed action is critically necessary to protect the residents and community from future storm events. The "No Action" Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events and the proposed action is still practicable in light of potential adverse impacts on the floodplain and wetlands.

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 100-year Floodplain and Wetland and the Potential Direct and Indirect Support of Floodplain and Wetland Development that Could Result from Proposed Action.***

The focus of floodplain evaluation should be on adverse impacts to lives and property, and on natural and beneficial floodplain values. Natural and beneficial values include consideration of potential for adverse impacts on water resources such as natural moderation of floods, water quality maintenance, and groundwater recharge.

According to the FEMA Report - A Unified National Program for Floodplain Management, the two definitions commonly used in evaluating actions in floodplain are "structural" and "non-structural" activities. Per the report, structural activity is usually intended to mean adjustments that modify the behavior of floodwaters through the use of measures such as public works dams, levees, and channel work. Non-structural is usually intended to include all other adjustments (e.g., regulations, insurance, etc.) in the way society acts when occupying or modifying a floodplain. These definitions are used in describing impacts that may arise in association with potential advancement of this case.

### ***Natural Moderation of Floods, Water Quality Maintenance, and Groundwater Recharge***

According to the FEMA FIRMs, the proposed action occurs in areas classified as Zone X and 100-year floodplain (Zone AE, Special Flood Hazard Area [SFHA]) (**Appendix 1**). The proposed action will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The impacts to 100-year floodplain include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. A Floodplain Development Permit and, if required, NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000), will be obtained before commencing work. Mitigation measures for the proposed action includes best management practices (BMPs) for erosion and sedimentation control such as silt fencing which will be utilized during construction.

Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the proposed action will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. To mitigate risk of erosion from allowing the stormwater to directly discharge into Big Marsh Swamp, riprap aprons are proposed at the outlets to dissipate energy. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology. The proposed action is not anticipated to exceed 1.5 acres of disturbance.

Natural floodplains and wetlands provide important functions for water quality maintenance and groundwater recharge. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Thus, measures will be implemented to ensure the proposed action will have no significant direct or indirect impacts to floodplain and wetlands during construction and operation as a stormwater infrastructure system. This will ensure that water quality and the ability to maintain water quality and allow for groundwater recharge are not impacted by the proposed action.

This proposed action involves stormwater infrastructure improvements to an existing deficient system. The project designs have been completed in accordance with agency input to minimize impacts to the

environment and community. The proposed action will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. Thus, while the proposed action would directly affect the floodplain, it is not anticipated to have an adverse effect on the floodplain for the surrounding communities or environment.

### ***Living Resources such as Flora and Fauna***

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, threatened, endangered, or candidate species and proposed or designated critical habitat under USFWS jurisdiction, and a "no Eagle Act permit required" determination for the Bald Eagle. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on March 21, 2023. According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See **Attachment 8** in the *Town of St. Pauls Flood Improvements Project EA ERR* for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.

The project designs have been completed in accordance with agency input to minimize impacts to the environment and community. The proposed action activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction. The proposed action has been determined to have "no effect" on proposed, threatened, endangered, or candidate species and proposed or designated critical habitat. Thus, as designed and with mitigation measures implemented, the proposed action will have no or minimal impacts to living resources, such as flora and fauna, during construction and operation as a stormwater infrastructure system.

### ***Impacts to Property and Lives***

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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. According to the Project Information Form (PIF) dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that "[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards." The proposed action is intended to sustain and build resiliency of this area during future flooding events while not detracting from visual quality. Additionally, the proposed action will further protect the residents' public health and safety by safeguarding infrastructure and enhancing emergency response operations during and after severe storm events. The mitigation of future flooding is essential for the safety of residents in the Town of St. Pauls. Therefore, the proposed action is not anticipated to have adverse impacts to property and lives, but rather aims to provide critically necessary protection of property and lives in the surrounding area during storm events.

### ***Cultural Resources such as Archaeological, Historic and Recreational Aspects***

The majority of the proposed action activities will take place in and along residential streets and at existing culverts. As part of this review, the SHPO, Chief and Tribal Historic Preservation Offices (THPO) of all applicable Tribes, Nations, and Communities were consulted regarding any historic properties of religious and cultural significance in the area that could be affected by the proposed actions. The SHPO responded on June 2, 2022 and July 3, 2023 that "[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 is the only federally-recognized tribes with interests in Robeson County, North Carolina. NCORR consulted with the Catawba Indian Nation for discussion of historic properties in the proposed action area that may have religious and cultural significance. On May 13, 2022, the Catawba Indian Nation's Tribal Historic Preservation Office (THPO) responded that "[t]he 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 July 12, 2023, NCORR Director Ms. Laura Hogshead sent a notification letter for the proposed project to the Lumbee Tribe of North Carolina Chairman John Lowery. A response has not been received but will be included in the *Town of St. Pauls Flood Improvements Project EA* ERR when received. The SHPO and Catawba Indian Nation Section 106 review and consultation documentation is included in the *Town of St. Pauls Flood Improvements Project EA* ERR along with the Lumbee Tribe of NC project notification letter.

There are several parks and recreational facilities located in St. Pauls according to the Town website (<https://www.stpaulsnc.gov/parks>). The Town has Sugar Park located near the Boy Scout Hut on North 4<sup>th</sup> Street and Hooks Community Building on North 3<sup>rd</sup> Street and West Armfield Street. The St. Pauls Regional Park at 625 East Blue Street is owned by the Town but leased by Robeson County to operate it and has two baseball/ softball fields, a dog park, and the only public swimming pool in Robeson County. The ML Bob Everett Park/North 5th Street Park has basketball courts. The proposed action will not introduce new development that would generate demand for parks, open spaces or recreational areas or impede their access. Instead, the proposed action aims to reduce flooding in the area, safeguard

infrastructure, and public and private properties, and reduce the vulnerability of assets by increasing the resiliency of the community during future flooding events. As such, the proposed action would not have an adverse effect on existing parks, open spaces or recreational areas.

### ***Agricultural, Aquacultural, and Forestry Resources***

The majority of the proposed project activities will take place in and along residential streets and at existing culverts. The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey Soil groups for the Subject Property included from north to south: NoA - Norfolk loamy sand, 0 to 2 percent slopes (Church parcel - *All areas are prime farmland*), WaB - Wagram loamy sand, 0 to 6 percent slopes (north of E. Clark St. - *Farmland of statewide importance*), WkB - Wakulla sand, 0 to 6 percent slopes (E. Clark St. to E. Ross St. - *Not prime farmland*), and JT - Johnston soils (St. Pauls' WWTP parcel - *Not prime farmland*). Thus, the proposed action areas located from approximately E. Clark Street to the St. Pauls' WWTP parcel are not considered "important farmlands" subject to FPPA according to the FPPA Manual, Subpart B – Program Activities and Requirements, Section 523.10(A) - Lands Subject to Provisions of FPPA. The proposed action areas containing *Farmland of statewide importance* and *All areas are prime farmland* are identified as "Land with a 'tint overprint' on the USGS topographical map" and, thus, not subject to provisions of the Farmland Protection Policy Act (FPPA) according to the FPPA Manual, Subpart B – Program Activities and Requirements, Section 523.10(B)(3) - Lands Not Subject to Provisions of FPPA. The Subject property consists of a church, residential neighborhood, and WWTP parcel which are not ideal for agricultural and forestry resources. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed. Thus, the proposed action is not expected to have an adverse impact on agricultural or forestry resources.

According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be reseeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See **Attachment 8** in the *Town of St. Pauls Flood Improvements Project EA ERR* for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. Therefore, the proposed



action is not expected to have an adverse impact on aquacultural resources. Overall, the Subject Property consists of a church, residential neighborhood, and WWTP parcel and is not used for agriculture, aquaculture or forestry and, thus, the proposed action is not expected to have an adverse impact on agricultural, aquacultural or forestry resources.

## **Wetland Evaluation**

The purpose of wetland evaluation is to consider factors relevant to a proposed action's effect on the survival and quality of any wetlands to be disturbed. 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. Based on the USACE CWA Section 404 NWP 18 Permit Verification and JD, the proposed action has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's Section 404. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP property with Parcel ID# 030890981900. According to the USFWS NWI Map, there is a former 0.40-acre Freshwater Pond habitat classified as PUBFh located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W). However, according to the USFWS NWI Coordinator, "[a]fter reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present." The St. Paul's WWTP parcel is the only proposed location with portions in wetlands, approximately 62.2 acres. Thus, the EO 11990 Protection of Wetlands Determination focuses only on the Big Marsh Swamp wetland.

The proposed action will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of NWI-mapped and USACE verified delineated wetlands. These impacts to wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. Further, mitigation measures are incorporated into the design plans, and permit requirements and conditions will be complied with during construction. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls*

*Flood Improvements Project EA ERR* when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed action will have no further impacts to wetlands during construction.

***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. Currently, the Big Marsh Swamp wetland functions as a collection point for stormwater from the surrounding properties. However, the existing stormwater infrastructure was insufficient during storms and Hurricane Matthew. The Town is experiencing frequent flooding problems in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. This area also experienced substantial flooding during Hurricane Matthew in 2016, resulting in damages to at least seven homes and the Calvary Cornerstone Holiness Church. The area has two small private pump stations that currently remove water during small rain events, but are not adequately sized for larger events and do not have backup power.

Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the proposed action will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. To mitigate risk of erosion from allowing the stormwater to directly discharge into Big Marsh Swamp, riprap aprons are proposed at the outlets to dissipate energy. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology. The proposed action is not anticipated to exceed 1.5 acres of disturbance. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. Therefore, the proposed action is not anticipated to have an adverse impact on water quality, recharge, and discharge; pollution; flood and storm hazards and hazard protection; and sediment and erosion.

The proposed action is necessary to prevent future storm events from flooding the affected areas of the Town of St. Pauls which is a threat to public safety. According to the PIF dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that “[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards.” The proposed action will further protect the residents’ public health and safety by safeguarding infrastructure and enhancing emergency

response operations during and after severe storm events. Therefore, the proposed action should lessen impacts to *public health, safety, and welfare* in the surrounding area during and after future storm events.

The Town of St. Pauls provides the water to the community according to the Town website. The proposed action will not increase demand for water. Thus, the proposed action will not have an impact on local water supplies. 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 DWR/ Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq. If new water lines will be installed or existing water lines relocated as part of this project, plans, specifications, and other reports will need to be submitted to the Public Water Supply Section before construction begins. In addition, all public water supply systems must comply with State and federal drinking water monitoring requirements. If any wells are discovered on the proposed project site, then abandonment of wells must be in accordance with Title 15A. Subchapter 2C.0100. 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 onsite and in the surrounding area.

The Town of St. Pauls provides sewer services to the community according to the Town website. The proposed action will not introduce any new development that would generate waste water. Mitigative measures such as BMPs will be utilized during construction to prevent soil and/ or debris from being washed offsite. The proposed action is not anticipated to cause the discharge of sewage to surfaces of the Subject Property or surrounding properties. The proposed action will not create waste water or affect waste water service in the area. Any additional waste water generated during construction activities would be temporary. A permit to construct and operate waste water treatment facilities, non-standard sewer system extensions and sewer systems that do not discharge into state surface waters and 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 according to the NC DEQ comments (*See Attachment 20 in the Town of St. Pauls Flood Improvements Project EA ERR* for full details). All applicable federal, State and local permits will be identified and obtained for the proposed action prior to construction and activities will comply with their requirements and conditions. Permits will be appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. Therefore, the proposed action is not anticipated to have an adverse impact on waste water/ sanitary sewers and capacity onsite and in the surrounding area.

***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***

Construction for the proposed action will result in approximately 0.07 acres of wooded habitat loss. However, the flood reduction benefits of the proposed action will outweigh this loss of wooded area. Native plants are recommended to be utilized during site restoration at the Subject Property. The proposed action is not anticipated to exceed 1.5 acres of disturbance. The proposed action has been designed and re-designed, and mitigation measures incorporated to have the minimal impacts on these features.

The USFWS Information for Planning and Consultation (IPaC) Official Species List identified a total of five threatened, endangered, or candidate species and three migratory Birds of Conservation Concern (BCC) as species with the potential to occur within the vicinity of the proposed project site. The five proposed, threatened, endangered, or candidate species include the: 1) Tricolored Bat (*Perimyotis subflavus*), 2) Red-cockaded Woodpecker (*Picoides borealis*), 3) American Alligator (*Alligator mississippiensis*), 4) Monarch Butterfly (*Danaus plexippus*), and 5) Michaux's Sumac (*Rhus michauxii*).

The three migratory BCC include the 1) Chimney Swift (*Chaetura pelagica*), 2) Prothonotary Warbler (*Protonotaria citrea*), and 3) Red-headed Woodpecker (*Melanerpes erythrocephalus*).

The NC Natural Heritage Program (NHP) database query report identified one State-listed species (Blackbanded Sunfish, *Enneacanthus chaetodon*) within the proposed project area, and five State-listed species within one-mile of the proposed project area including two dragonfly or damselfly species, one freshwater fish and two vascular plants (Coppery Emerald, *Somatochlora georgiana*; Phantom Darner, *Triacanthagyna trifida*; Blackbanded Sunfish, *Enneacanthus chaetodon*; Georgia Indigo-bush, *Amorpha georgiana*; and Carolina Sunrose, *Crocanthemum Carolinianum*). However, based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the proposed project area.

The NC NHP was consulted for additional information on the Tricolored Bat which is proposed for listing and uses culverts year-round for habitat. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, “[t]here are no documented Tricolored Bat maternity roost trees within 150 feet of this project boundary. There are no documented Tricolored Bat hibernacula within 0.25 mile of this project boundary. Individuals of this species have been mist-net captured approximately 20 miles to the southeast of this project boundary (emphasis added).” Since the Tricolored Bat is estimated to be present approximately 20 miles from the proposed project site, a determination of “No Effect” has been made for this proposed species.

None of the above-listed species or potential habitat were observed during the site visits. According to McGill Associates, PA (McGill), Threatened and Endangered (T&E) Species surveys to observe biological habitats and determine the likely occurrence of protected (threatened/ endangered), candidate, and proposed species within the proposed project area and site visits were completed. There was no suitable habitat found within the Limits of Disturbance (LOD). The majority of the proposed project activities (disturbance) will take place in and along residential streets and at existing culverts. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed and any migratory birds in the area will temporarily leave the area during construction. Therefore, a No Effect determination has been made for all of the above-listed species and a “no Eagle Act permit required” determination for eagles. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on March 21, 2023.

Aquatic resources are highly susceptible to sedimentation. According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See **Attachment 8** in the *Town of St. Pauls Flood Improvements Project EA ERR* for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and

Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.

The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. The proposed action has been determined to have “no effect” on proposed, threatened, endangered, or candidate species and proposed or designated critical habitat. In addition, the Subject property consists of a church, residential neighborhood, and WWTP parcel which are not ideal and not used for timber or agriculture and, thus, is not expected to have an adverse impact on timber and food and fiber resources. Thus, there will be minimal to no effect on living resources such as natural systems such as flora and fauna, timber, and food and fiber resources. (Natural hydrologic function and wetland type are discussed further in previous sections.)

#### ***Cost Increases Attributed to Wetland-Required New Construction and Mitigation Measures to Minimize Harm to Wetlands that May Result from Such Use***

The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain. The additional costs for impacts to wetlands include the wetland delineation for \$7,200 and permit costs of \$8,600. Since the impacts to wetlands are less than one acre, no compensatory mitigation is required. There are additional mitigation measures to minimize harm to wetlands built into existing plans. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Thus, measures will be implemented to ensure the proposed action will have no further impacts to wetlands during construction and any additional costs that will be incurred during implementation cannot be fully enumerated at this time.

#### ***Other Uses of Wetland in the Public Interest, Including Recreational, Scientific, and Cultural Uses***

The portion of the wetland located on the Town’s WWTP parcel has no identifiable recreational, scientific, or cultural uses that will be impacted by the proposed action. The site is currently used as a municipal waste water treatment facility. As part of the 24 CFR 58 environmental review, the SHPO and Chief Bill Harris and the THPO of the Catawba Indian Nation were consulted regarding any historic or tribal resources in the area that could be affected by the proposed action. On June 2, 2022 and July 3, 2023, the SHPO responded that the project will have no effect on historic resources. On May 13, 2022, the Catawba Indian Nation’s THPO responded that “[t]he 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 July 12, 2023, NCORR Director Ms. Laura Hogshead sent a notification letter for the proposed project to the Lumbee Tribe of



North Carolina Chairman John Lowery. A response has not been received but will be included in the *Town of St. Pauls Flood Improvements Project EA ERR* when received. The SHPO, Catawba Indian Nation, and Lumbee Tribe of NC documentation is included in the *Town of St. Pauls Flood Improvements Project EA ERR*.

**Step 5. Where Practicable, Design or Modify the Proposed Action to Minimize the Potential Adverse Impacts to and from the 100-Year Floodplain and the Wetland and to Restore and Preserve its Natural and Beneficial Functions and Values.**

The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain. The original design proposed approximately 584 LF of RCP through the wetland ending under the WWTP Access Road with a rip rap apron and armoring. The revised 2023 proposed project design involves the installation of two 24-inch RCPs approximately 26 linear feet in length in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts.

All temporary wetland impacts will result from construction access and will be stabilized and allowed to return to natural conditions post-construction. The contractor shall provide adequate pump around or diversion to keep the work area dry. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology.

The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed action will have no significant direct or indirect impacts to floodplain and wetlands during construction and operation as a stormwater infrastructure system.

### **Step 6. Reevaluate the Alternatives and Proposed Action.**

The proposed action will benefit surrounding residential areas by alleviating flooding and preventing private and public property damage. As conceived and designed, through a system of underground culverts, this proposed action aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The proposed action is not anticipated to exceed 1.5 acres of disturbance.

The proposed action location has been determined to be the most ideal for effective improvement of the existing stormwater infrastructure and only a small portion of the proposed activities will take place in 100-year floodplain and wetland. This proposed action involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative routes and designs were considered during the design phase; however, the proposed action utilizes the most economical and direct route to convey stormwater to the larger drainage area of Big Marsh Swamp. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The proposed action has been redesigned with agency input to minimize impacts to wetlands and have minimal impacts on floodplain.

The main alternative is the “No Action” Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This proposed action is critically necessary to protect the residents, property and community from future storm events. The “No Action” Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. The “No Action” Alternative would not address the purpose and need of the proposed action, and leave the surrounding community vulnerable to future flood damage. Thus, the “No Action” Alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events and the proposed action is still practicable in light of potential adverse impacts on the floodplain and wetlands.

Implementation of the proposed action will abide by 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 *Town of St. Pauls Flood Improvements Project EA environmental review record (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 Town of St. Pauls Flood Improvements Project. This proposed action is critically necessary to protect the residents, property and community from future storm events.

A final notice, formally known as “*Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland*” is being 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 starts with the combined notice publishing in The Robesonian newspaper on July 19, 2023 and ends on August 3, 2023. The notice will be 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 July 19, 2023: HUD NC Field Office; FEMA; EPA; USFWS; USACE; and NC State Environmental Clearinghouse. The notice was also sent to Robeson County and the Town of St. Pauls. Project information was sent to the NC SHPO and Catawba Indian Nation for review and comment under Section 106 of the NHPA and a project notification letter was sent to the Lumbee Tribe of North Carolina (See *Town of St. Pauls Flood Improvements Project EA ERR*). (See **Appendix 3** for the final notice distributed to these agencies).

Supporting documentation, including this EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination, incorporated into the Final Notice was posted for public review to the NCORR ReBuild NC website and included the Early Notice documentation (proposed project location maps with boundaries shown, USFWS NWI Maps [showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church], FEMA FIRMettes with parcel boundaries shown, USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts' Areas and Acreage) and additional appendices noted herein. The EA was also posted to the NCORR ReBuild NC website allowing for public and agency input on the decision to provide funding for construction and development activities. Any substantive comments received will be addressed, and incorporated into the EA 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**

## **TOWN OF ST. PAULS FLOOD IMPROVEMENTS**

### **EARLY NOTICE FLOODPLAIN AND WETLANDS MAPS**

- **Proposed Project Location Maps**
- **USFWS National Wetlands Inventory Maps**  
**(showing Big Marsh Swamp and USFWS**  
**confirmation no PUBFh wetland present at**  
**Parcel 1 - Calvary Cornerstone Holiness Church)**
- **FEMA FIRMettes and NFIP Community Status**  
**Book**
- **USACE NWP 18 Permit Verification and**  
**Jurisdictional Determination with Site Plans**  
**showing Wetland Impacts, Pre-Construction**  
**Notification (PCN) Form, and JD Request**

## **Proposed Project Location Maps**



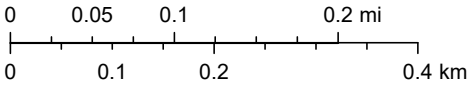
# St. Pauls Flood Improvements - Aerial Map



June 8, 2023

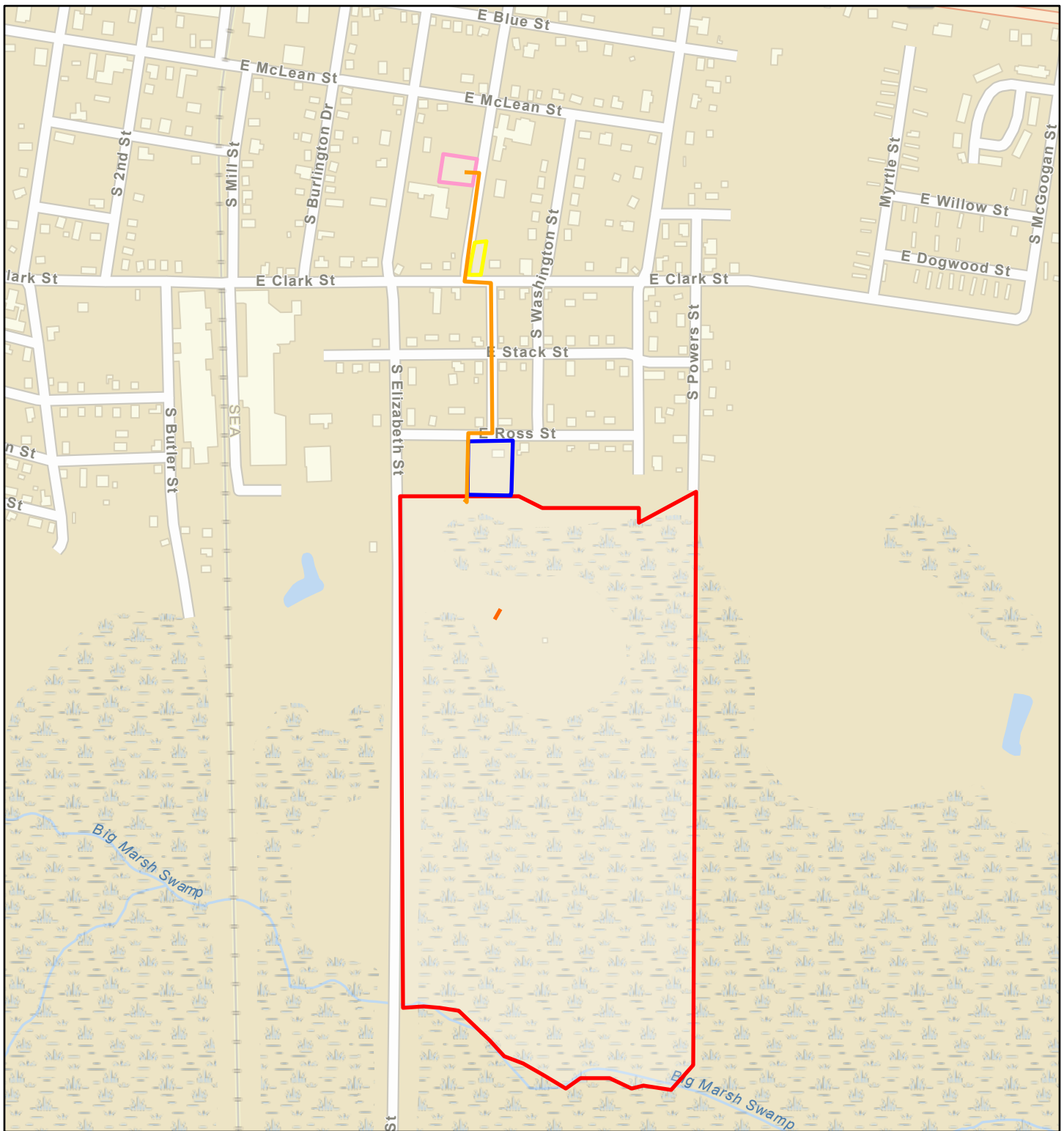
1:9,028

- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



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

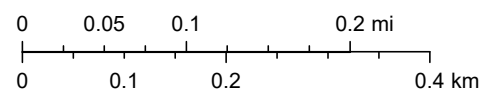
# St. Pauls Flood Improvements - Street Map



June 8, 2023

1:9,028

- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP

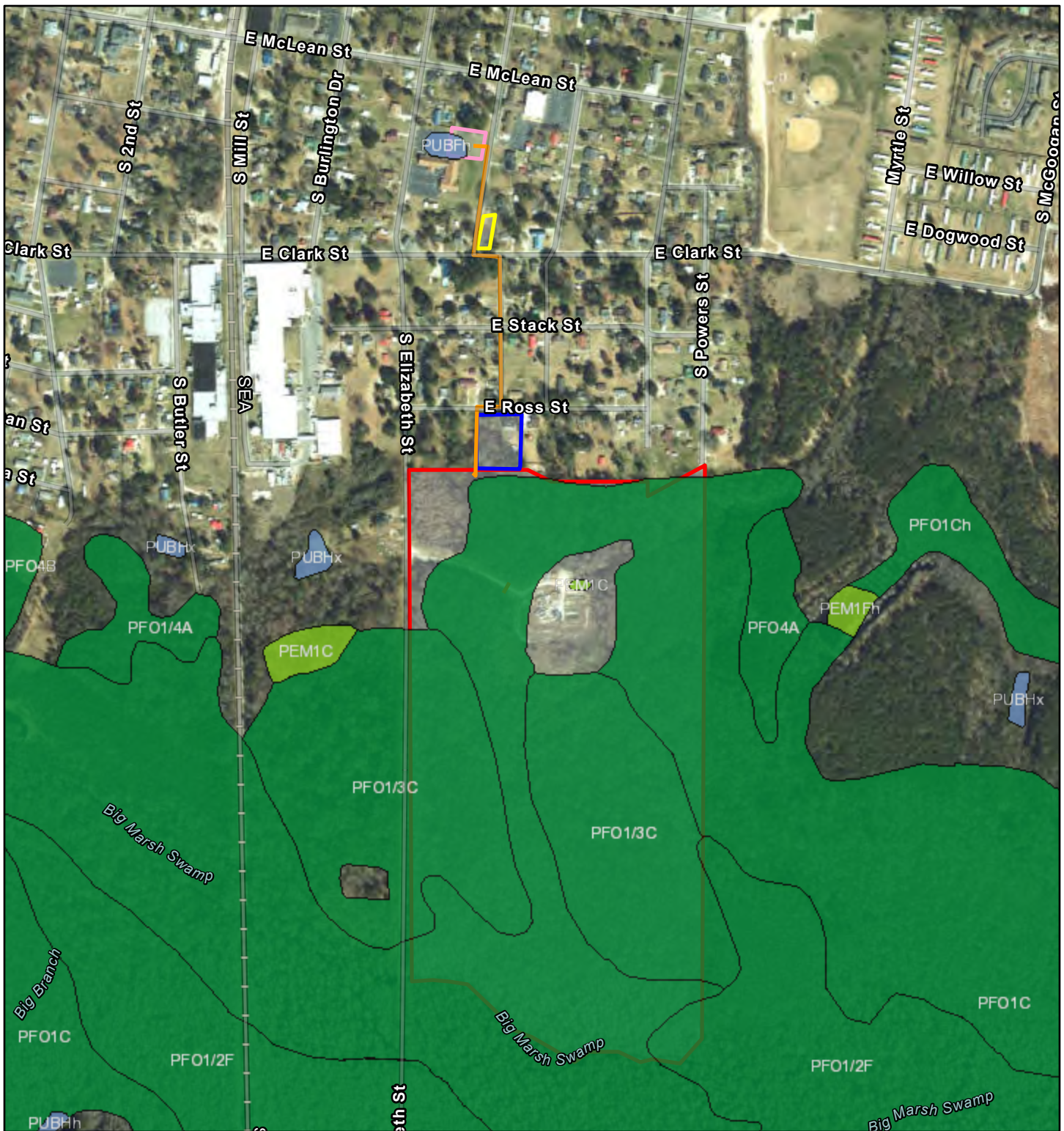


Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

**USFWS National Wetlands Inventory Maps  
(showing Big Marsh Swamp and USFWS  
confirmation no PUBFh wetland present at  
Parcel 1 - Calvary Cornerstone Holiness  
Church)**



# St. Pauls Flood Improvements - NWI Map



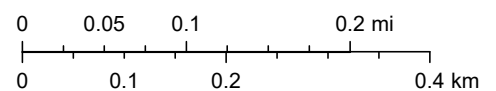
June 8, 2023

1:9,028

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake

- Other
- Riverine
- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
- St. Pauls' WWTP



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





U.S. Fish and Wildlife Service

# National Wetlands Inventory



## St. Pauls Flood Imp. - Parcel 1



U.S. Fish and Wildlife Service, National Standards and Support Team,  
wetlands\_team@fws.gov

July 18, 2022

### Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



## Gievers, Andrea

---

**From:** Hunt, Gary <Gary\_Hunt@fws.gov>  
**Sent:** Thursday, March 23, 2023 11:27 AM  
**To:** Gievers, Andrea  
**Subject:** Re: [EXTERNAL] St. Pauls Flood Improvement - NWI Map inconsistency

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam.](#)

TO: Andrea Gievers, JD, MSEL, ERM  
Environmental SME  
Community Development  
NC Office of Recovery and Resiliency  
845/682-1700

RE: Analysis of wetland features at South Johnson Street, East Clark Street, Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009.

After reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present.

The U.S. Fish & Wildlife Service National Wetlands Inventory has been collecting and maintaining wetlands data for more than forty years. Due to budget and manpower limitations, some areas originally mapped in the 1970's and 1980's never got updated. Therefore, as in this case, features that once existed when the original data was collected may be altered or in some cases gone all together. This is a common issue with the database, especially in areas of rapid growth or change.

The data for this area was collected in 1983, and has not been updated.

It should also be noted that the National Wetlands Inventory (NWI) is an inventorying and classifying agency, which *only* provides reconnaissance-level wetland maps and information. The National Wetlands Inventory is not a regulatory agency. Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. Entities should not rely solely on this inventory for current wetland status. Modern aerial imagery and on-the-ground investigations may supersede data appearing on the online NWI Wetlands Mapper. For Federally-based jurisdictional determinations, the U.S. Army Corps of Engineers should be consulted.

Feel free to call or email if you have any further questions or concerns.

Sincerely,  
*Gary H Hunt*  
*National Wetlands Inventory Coordinator*  
*Ecological Services*  
*U.S. Fish & Wildlife Service*  
*500 Gold Ave. SW Room 6056*  
*Albuquerque, NM 87102*  
*505-248-6776 (office)*  
*505-248-6922 (fax)*  
[gary\\_hunt@fws.gov](mailto:gary_hunt@fws.gov)

---

**From:** Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>  
**Sent:** Tuesday, March 21, 2023 11:25 AM  
**To:** Hunt, Gary <Gary\_Hunt@fws.gov>  
**Subject:** [EXTERNAL] St. Pauls Flood Improvement - NWI Map inconsistency

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Hello:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds from the United States Department of Housing and Urban Development (HUD), is considering funding this Infrastructure Recovery Program project, St. Pauls Flood Improvement. The proposed project location is at South Johnson Street, East Clark Street, Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009; 400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101; 401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900, Robeson County, NC 28364. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure.

Per HUD regulations at 24 CFR 55.2(b)(11), I am reaching out to you regarding an NWI-mapped wetland that is no longer wetland. The project starts at one parcel with NWI-mapped wetland which is currently a church parking lot and lawn with a catch basin, see attached and below. I have asked USACE Gary Beecher who sent me the Lidar map if he could confirm for me that it is no longer a wetland. Mr. Beecher is working on the PCN submittal for the Big Marsh Swamp portion of the project. *Is it possible to get a sign-off from USFWS that this is no longer a wetland?* Please feel free to contact me if you have any questions. Thank you so much!



1: S. Johnson\_Facing West



5: South Johnson Street Catch Basin, Facing West

Sincerely,

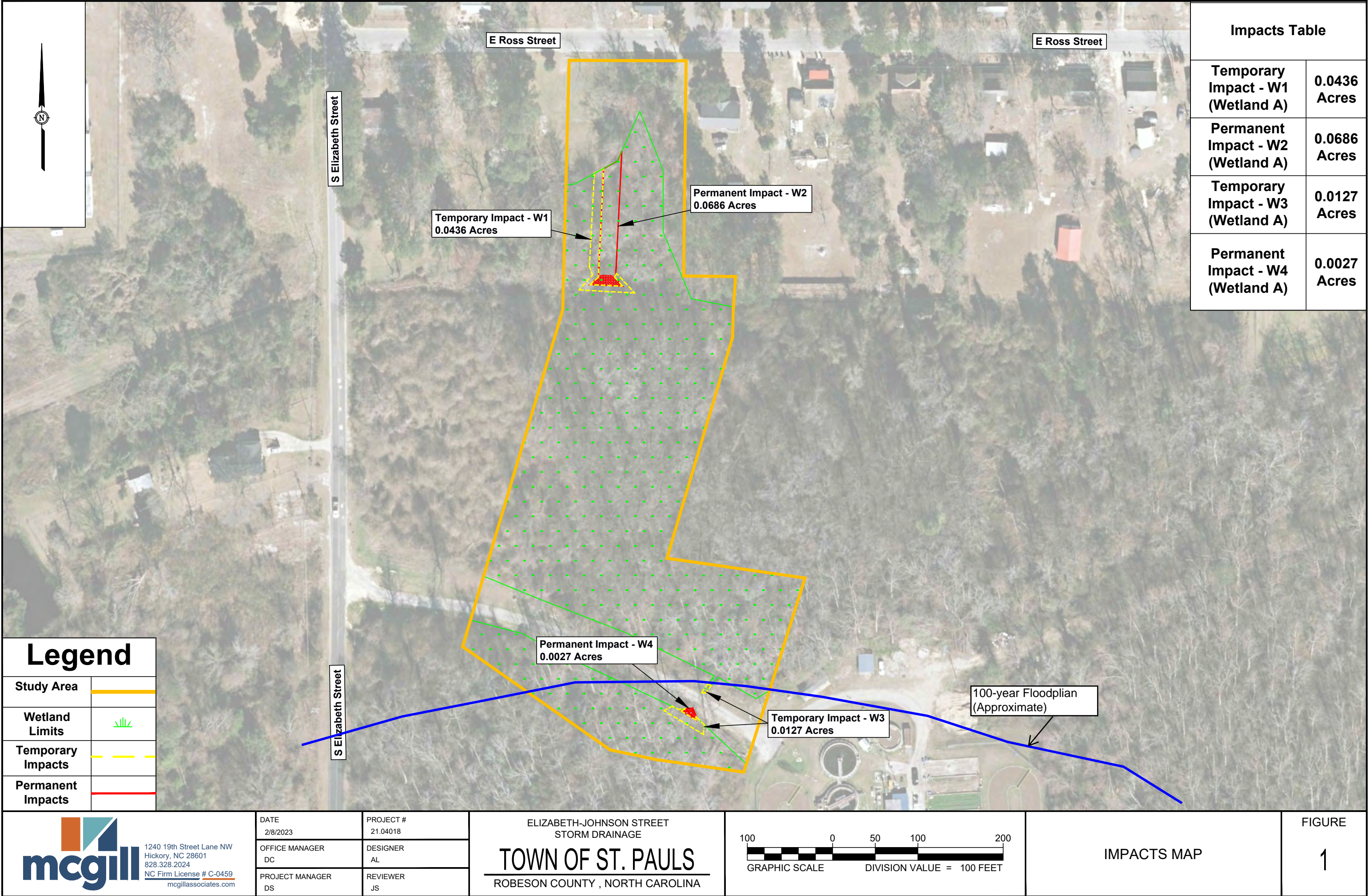
Andrea

Andrea Gievers, JD, MSEL, ERM  
Environmental SME  
Community Development  
NC Office of Recovery and Resiliency  
[Andrea.L.Gievers@Rebuild.NC.Gov](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

**FEMA FIRMettes and NFIP Community  
Status Book**



P:\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DESIGN\PERMITS\404-40\1PCN\IMPACTS MAP\_2\_7\_2023.DWG PLOT DATE 2/8/2023 10:02 AM ALEX LOWDERMILK





# St. Pauls Flood Improvements - FEMA FIRM

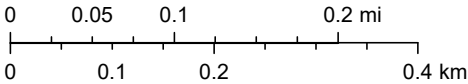


June 8, 2023

1:9,028

## Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard



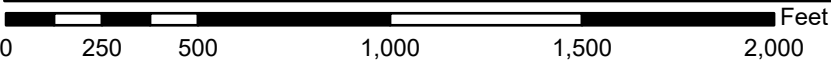
NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA



# National Flood Hazard Layer FIRMMette



78°58'24"W 34°48'14"N



1:6,000

78°57'46"W 34°47'45"N

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
OTHER FEATURES		Base Flood Elevation Line (BFE)
		Limit of Study
OTHER FEATURES		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 6/8/2023 at 10:06 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.

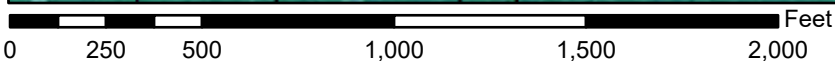
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



# National Flood Hazard Layer FIRMette



78°58'18"W 34°47'59"N



1:6,000

78°57'41"W 34°47'30"N

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



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 7/18/2023 at 2:38 PM 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#	RHODISS, 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#	ROXBEL, TOWN OF	BERTIE COUNTY		02/04/09	08/03/09	02/04/09	No					

**USACE NWP 18 Permit Verification and  
Jurisdictional Determination with Site Plans  
showing Wetland Impacts, Pre-Construction  
Notification (PCN) Form, and JD Request**



**U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT**

Action Id. **SAW-2023-00404** County: **Robeson County** U.S.G.S. Quad: **Saint Pauls**

**GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

Permittee: **Town of St. Pauls**  
**Attn: Mayor Elbert Gibson**

Address: **210 West Blue Street**  
**St. Pauls, NC**

Telephone Number: **(910) 865-5165**

E-mail Address: **[debra@stpaulsnc.gov](mailto:debra@stpaulsnc.gov)**

Size (acres) **4.03**  
Nearest Waterway **Big Branch**  
USGS HUC **03040203**

Nearest Town **St. Pauls, NC**  
River Basin **Lower Pee Dee**  
Coordinates Latitude: **34.7989**  
Longitude: **-78.9681**

Location description: **This project will take place in the vicinity of South Johnson Street, East Clark Street and East Ross Street in the Town of St. Pauls, Robeson County, NC (Parcel ID: 030890981900).**

Description of projects area and activity: **A NWP 18 will be used to permanently impact 0.072-acres of 404 wetlands for the use in flood and drainage improvements for the Town of St. Pauls.**

Applicable Law: ☒ Section 404 (Clean Water Act, 33 USC 1344);  
☐ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: **18**  
***SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS***

**Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated February 13, 2023 & March 17, 2023 Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.**

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's

expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Gary Beecher at (910) 251-4694 or Gary.H.Beecher@usace.army.mil.**

Corps Regulatory Official: \_\_\_\_\_ Date: **April 11, 2023**  
Expiration Date of Verification: **NWP 18 expires on March 14, 2026**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <https://regulatory.ops.usace.army.mil/customer-service-survey/>

Copy furnished via e-mail to:

**Consultant:**

**Jon Swaim**  
**McGill Associates, PA**  
**(828) 328-2024**  
**[Jon.swaim@mcgillassociates.com](mailto:Jon.swaim@mcgillassociates.com)**

U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICTAction Id. **SAW-2023-00404**County: **Robeson County**

## NOTIFICATION OF JURISDICTIONAL DETERMINATION

Permittee: **Town of St. Pauls**  
**Attn: Mayor Elbert Gibson**Address: **210 West Blue Street**  
**St. Pauls, NC**Telephone Number: **(910) 865-5165**E-mail Address: **[debra@stpaulsnc.gov](mailto:debra@stpaulsnc.gov)**Size (acres) **4.03**  
Nearest Waterway **Big Branch**  
USGS HUC **03040203**Nearest Town **St. Pauls, NC**  
River Basin **Lower Pee Dee**  
Coordinates Latitude: **34.7989**  
Longitude: **-78.9681****Indicate Which of the Following Apply:****A. Preliminary Determination**

**X** **There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.**

**-** **There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This**

preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.

- There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since the waters, including wetlands, have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the waters, including wetlands, at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the waters of the U.S., including wetlands, on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

## ***B. Approved Determination***

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S., including wetlands, on the above described property subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- We recommend you have the waters of the U.S., including wetlands, on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.
- The waters of the U.S., including wetlands, on your property have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, unless there is a change in law or our published regulations, may be relied upon for a period not to exceed five years from the date of this notification.
- The waters of the U.S., including wetlands, have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Gary Beecher at (910) 251-4694 or Gary.H.Beecher@usace.army.mil.**

***C. Basis For Determination: N/A. An Approved JD has not been completed.***

**D. Remarks: A desk top review was conducted on this application using information obtained from the consultant (McGill Associates, P.A.) and from Corps generated Lidar and soils Maps.**

#### **E. Attention USDA Program Participants**

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

#### **F. Appeals Information for Approved Jurisdiction Determinations (as indicated in Section B. above)**

If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers  
South Atlantic Division  
Attn: Mr. Philip A. Shannin  
Administrative Appeal Review Officer  
60 Forsyth Street SW, Floor M9  
Atlanta, Georgia 30303-8803

**AND**

**[PHILIP.A.SHANNIN@USACE.ARMY.MIL](mailto:PHILIP.A.SHANNIN@USACE.ARMY.MIL)**

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **N/A.**



**It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.**

Corps Regulatory Official: \_\_\_\_\_

Date of JD: **April 11, 2023**      Expiration Date: **PJD does not expire**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Copy Furnished via email to:

**Consultant:**

**Jon Swaim**  
**McGill Associates, PA**  
**(828) 328-2024**  
**[Jon.swaim@mcgillassociates.com](mailto:Jon.swaim@mcgillassociates.com)**

**SPECIAL CONDITIONS**

1. Erosion Control: The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

2. Work Limits: All work authorized by this permit shall be performed in strict compliance with the attached permit plans dated February 13, 2023 & March 17, 2023, which are a part of this permit. The Permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the U.S. Army Corps of Engineers (Corps) prior to any active construction in waters or wetlands.

3. Temporary Impacts Restoration Measures: Within thirty (30) days of the date of completing the authorized work, the Permittee shall remove all temporary fills in waters of the United States and restore the affected areas to pre-construction contours and elevations. The affected areas shall be re-vegetated with native, non-invasive vegetation as necessary to minimize erosion and ensure site stability.

Action ID Number: SAW-2023-00404

County: Robeson County

Permittee: Town of St. Pauls, Attn: Mayor Elbert Gibson

Project Name: Elizabeth-Johnson St Storm Drainage Improvements

Date Verification Issued: April 11, 2023

Project Manager: Gary Beecher

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT  
Attn: Gary Beecher

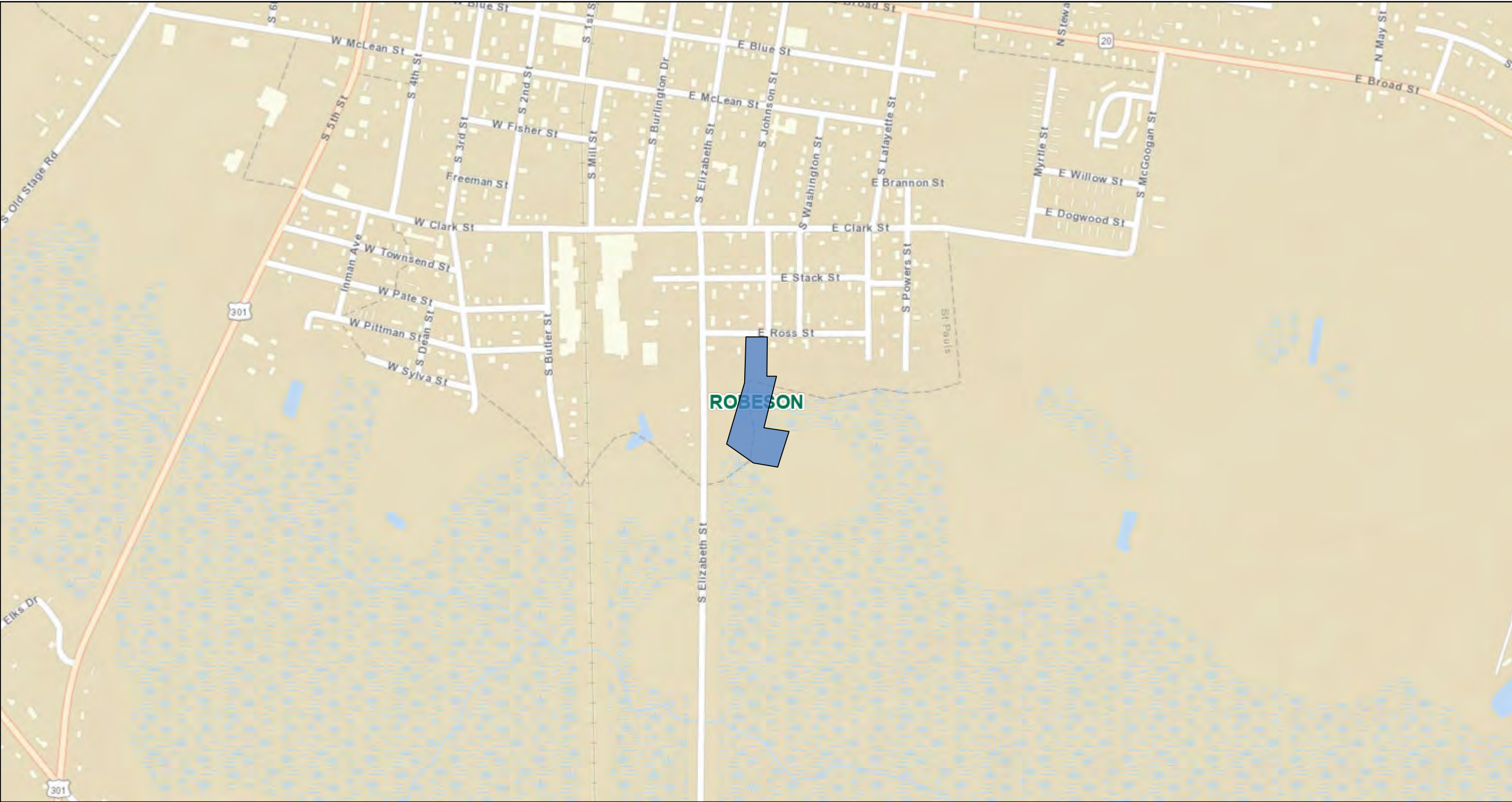
Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.



\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

# NCHPO HPOWEB Map



2/7/2023, 11:43:49 AM

-  Study Area\_2\_6\_2023
-  Counties (outline)

1:9,028

00.070.150.3 mi

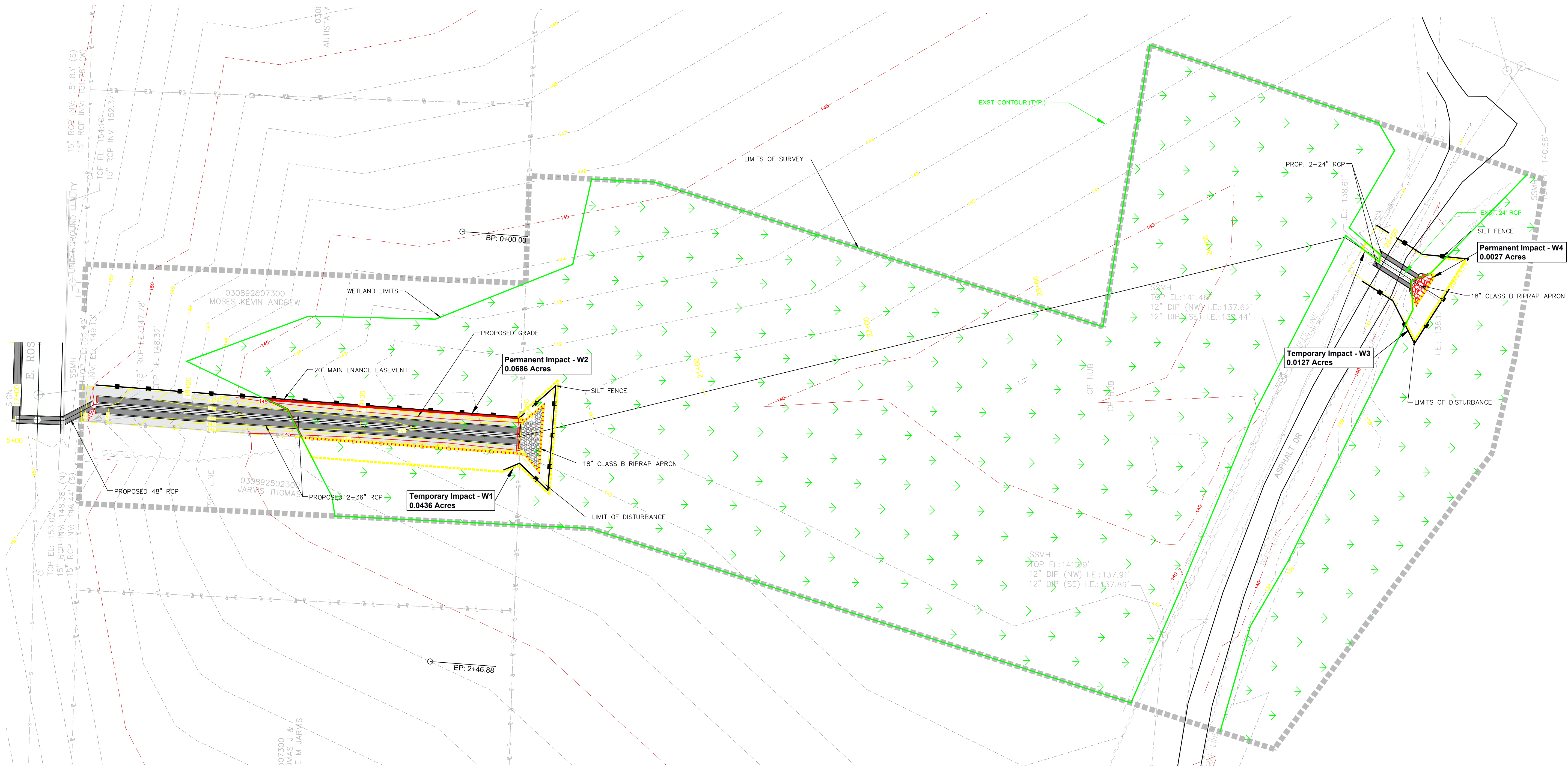
00.130.250.5 km

State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, Intermap, NGA, USGS





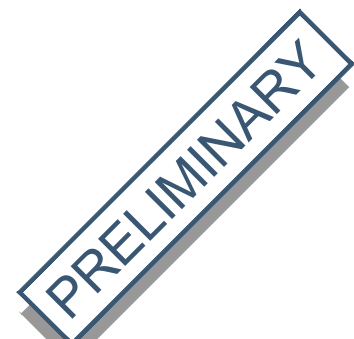




PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

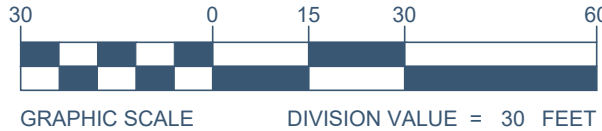


55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

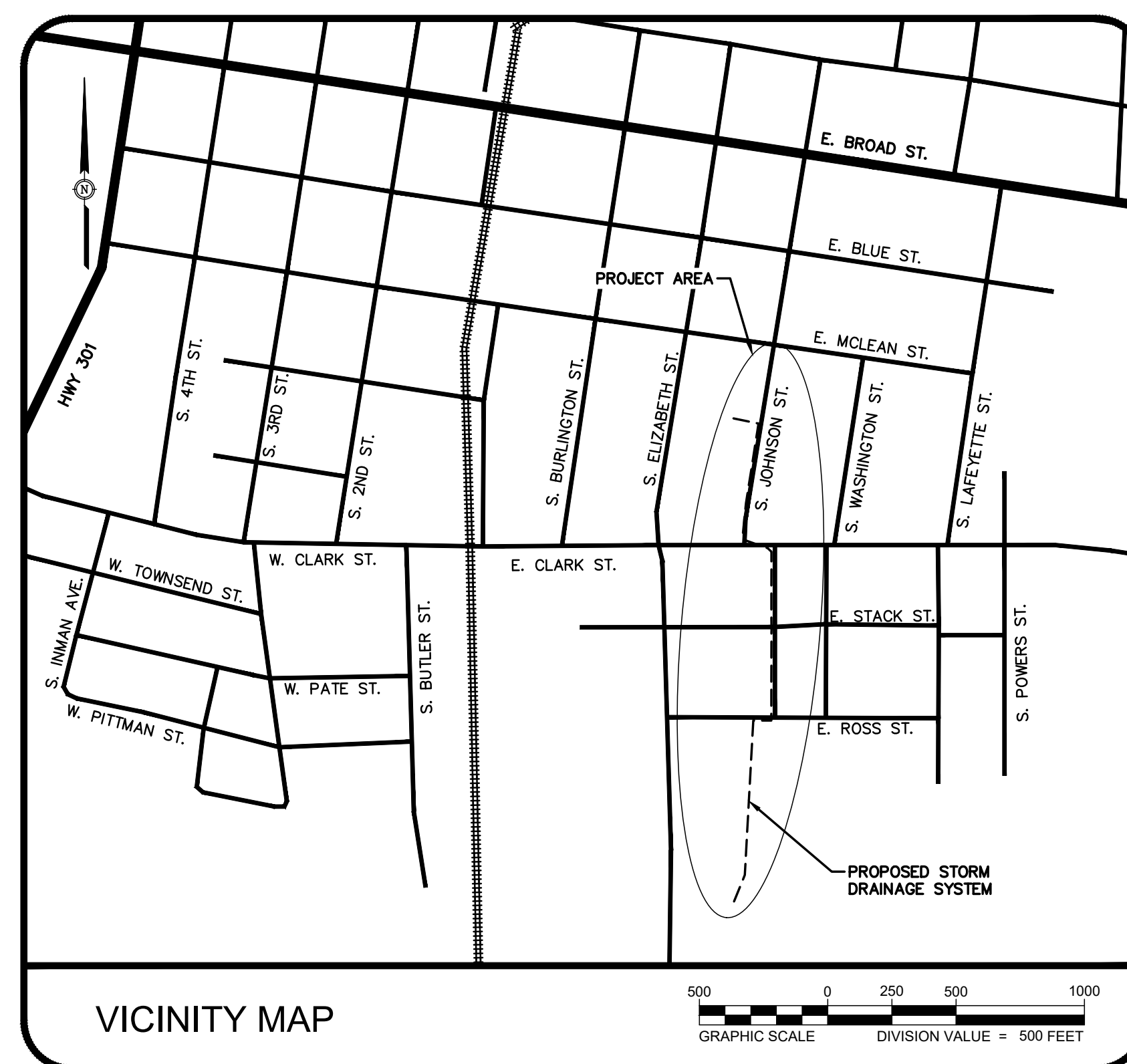
OVERVIEW OF WETLAND IMPACTS  
STA. 17+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A



# ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS

## ROBESON COUNTY, NORTH CAROLINA



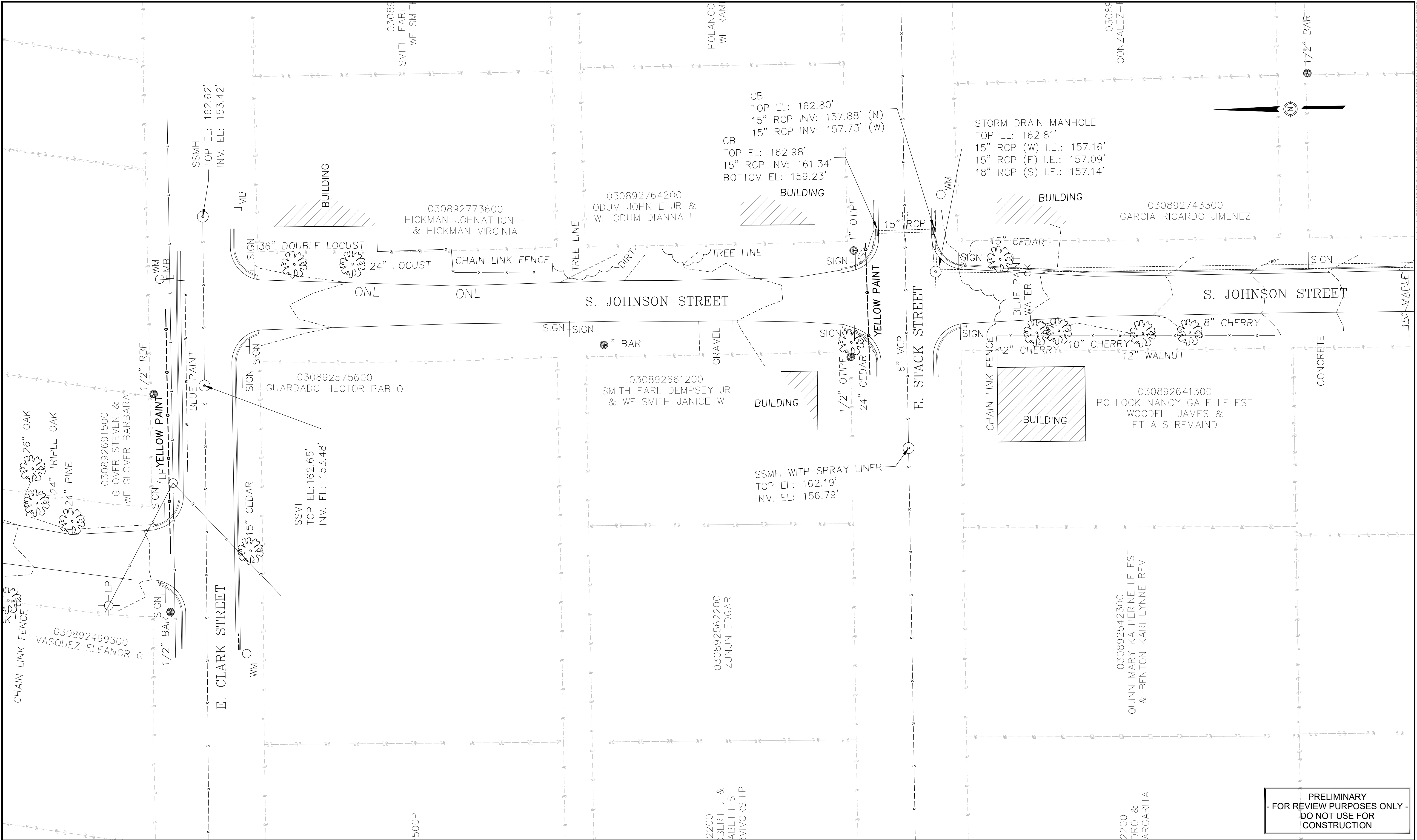
### SCHEDULE OF DRAWINGS

- G-01 Cover
- G-02 Notes & Legend
- G-03 NCDEQ General Permit Notes
- G-04 NCDEQ General Permit Notes
- CE-01 Existing Conditions 1 of 4
- CE-02 Existing Conditions 2 of 4
- CE-03 Existing Conditions 3 of 4
- CE-04 Existing Conditions 4 of 4
- C-10 Proposed Plan and Profile S. Johnson St. Sta. 0+00-5+50
- C-11 Proposed Plan and Profile E. Clark St. Sta. 6+00-7+50
- C-12 Proposed Plan and Profile S. Johnson St. Sta. 8+00-12+00
- C-13 Proposed Plan and Profile S. Johnson St. Sta. 12+00-15+00
- C-14 Proposed Plan and Profile E. Ross St. Sta. 15+00-16+50
- C-15 Proposed Plan and Profile Sta. 17+00-22+00
- C-16 Proposed Plan and Profile Sta. 22+00-25+50
- C-17 Overview of Wetland Impacts Sta. 17+00-25+50
- C-20 Cross Sections Sta. 17+50-20+00
- C-30 Erosion Control Details 1 of 2
- C-31 Erosion Control Detail 2 of 2
- C-32 Miscellaneous Details 1 of 2
- C-33 Miscellaneous Details 2 of 2

NO.	DATE	BY	DESCRIPTION



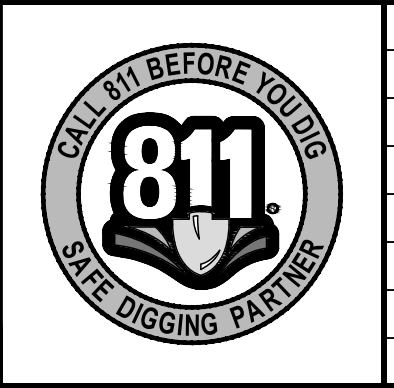
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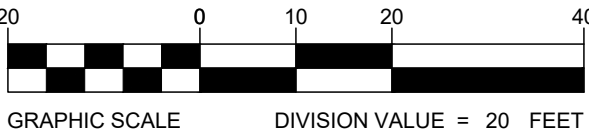
55 Broad Street  
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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

EXISTING CONDITIONS 2 OF 4		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET  
**CE-02**

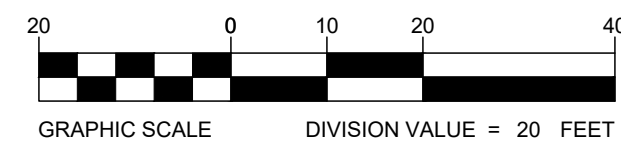
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PRELIMINARY

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ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH





EXISTING CONDITIONS 3 OF 4

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

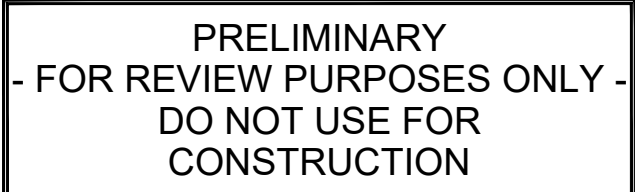
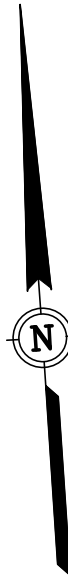
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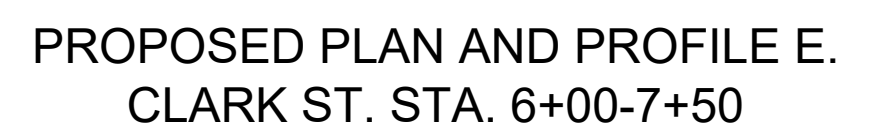
 <p>55 Broad Street Asheville, NC 28801 828.252.0575 <u>NC Firm License # C-0459</u> mcgillassociates.com</p>							ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS <b>TOWN OF ST. PAULS</b> ROBESON COUNTY, NORTH CAROLINA				 GRAPHIC SCALE      DIVISION VALUE = 20 FEET				EXISTING CONDITIONS 4 OF 4				SHEET
											OFFICE MANAGER		DESIGNER						
											B. ROARK		C. HEATHCOAT						
								PROJECT MANAGER		REVIEWER		DATE		PROJECT #		FUNDING #			
				NO.    DATE    BY    DESCRIPTION				D. SABEH		D. SABEH		FEBRUARY 2023		21.04018		N/A			
																CE-04			







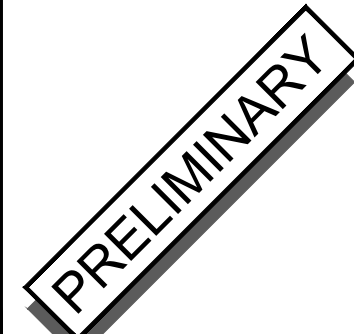
ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



SHEET

C-11



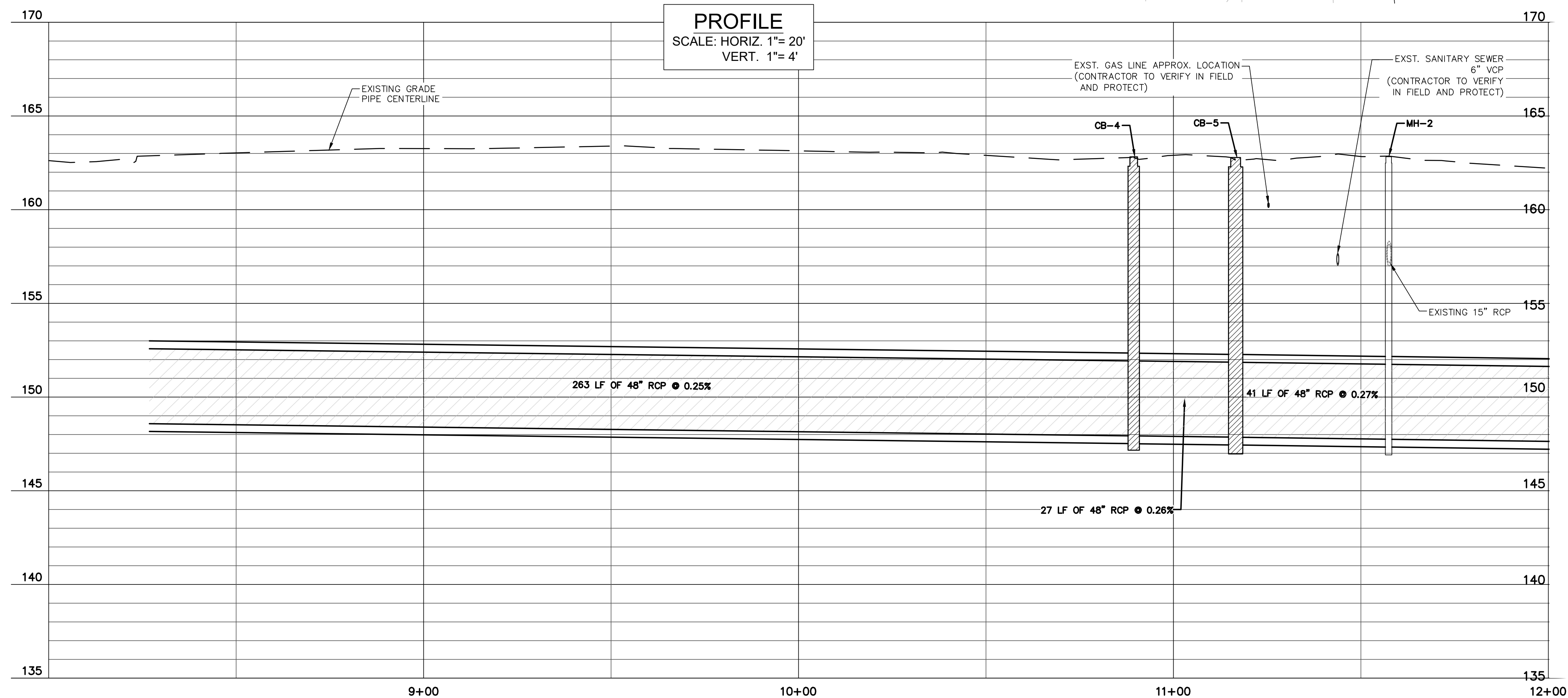


ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

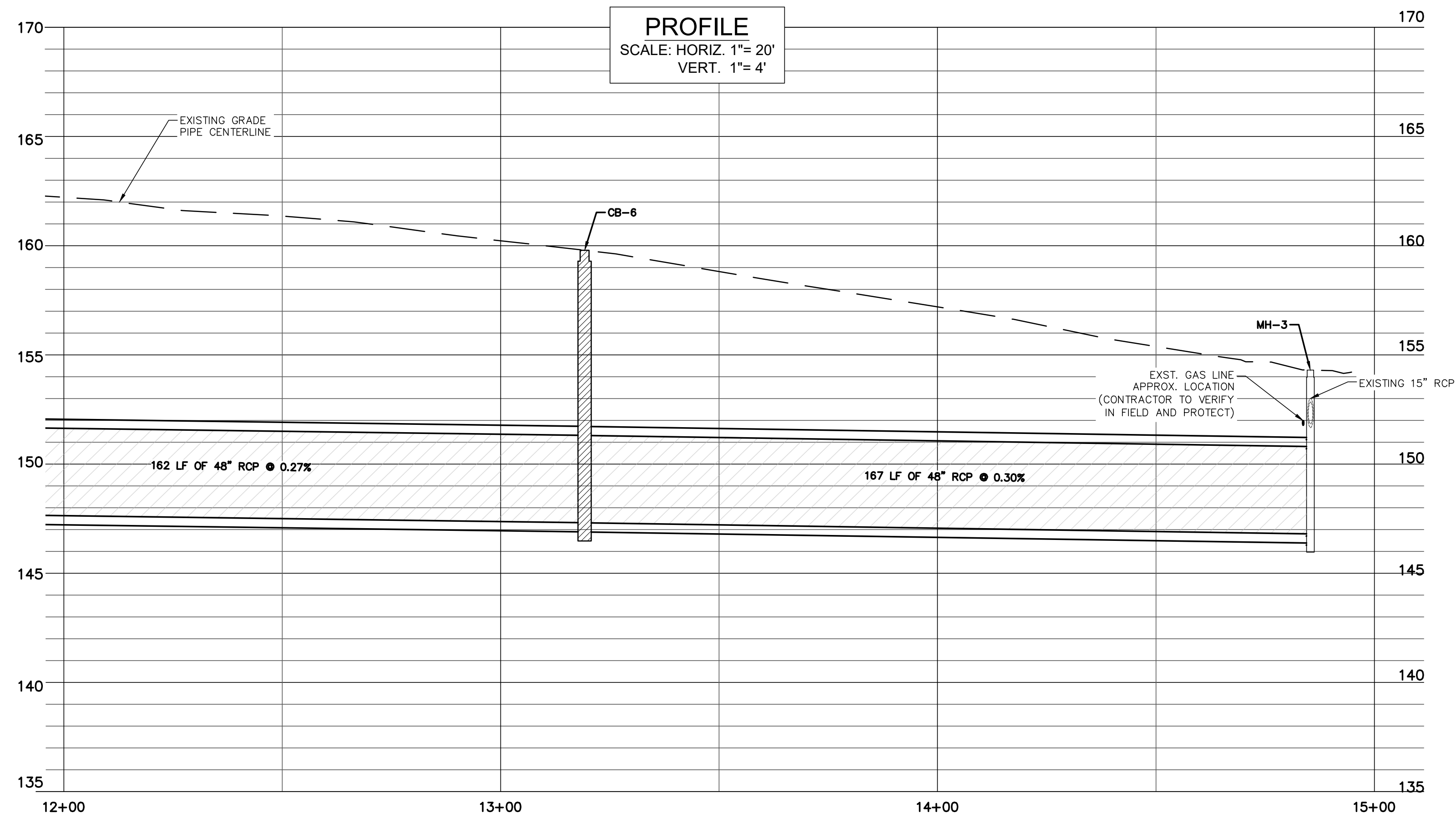
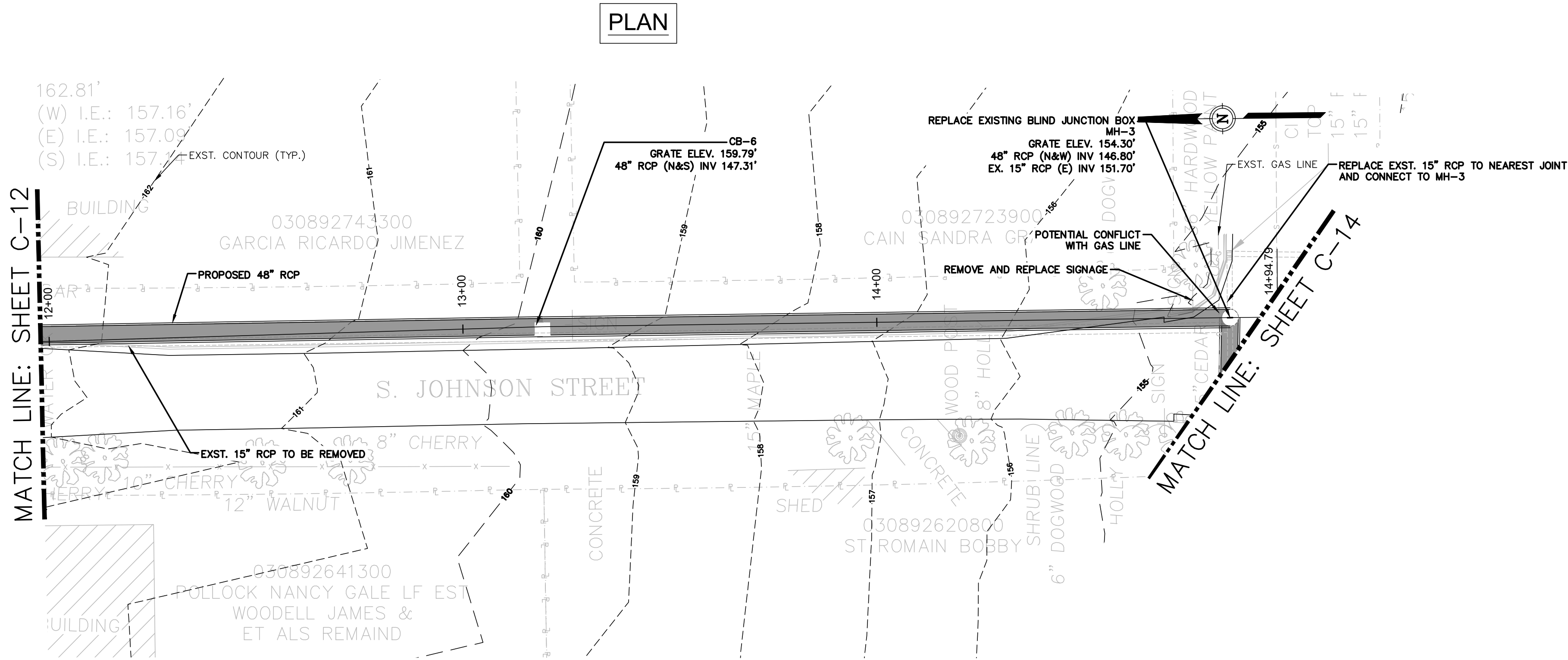


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C-12



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ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

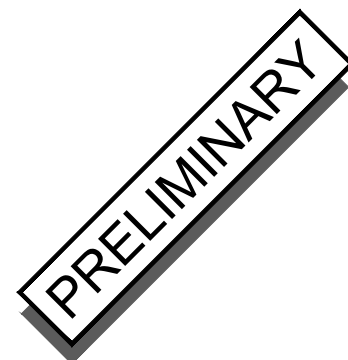
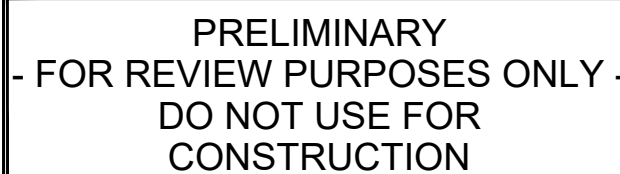
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OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

PROPOSED PLAN AND PROFILE S. ST. STA. 12+00-15+00		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

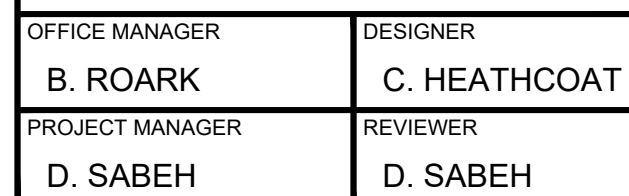
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21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS



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ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



PROPOSED PLAN AND PROFILE E. ROSS  
ST. STA. 15+00-16+50

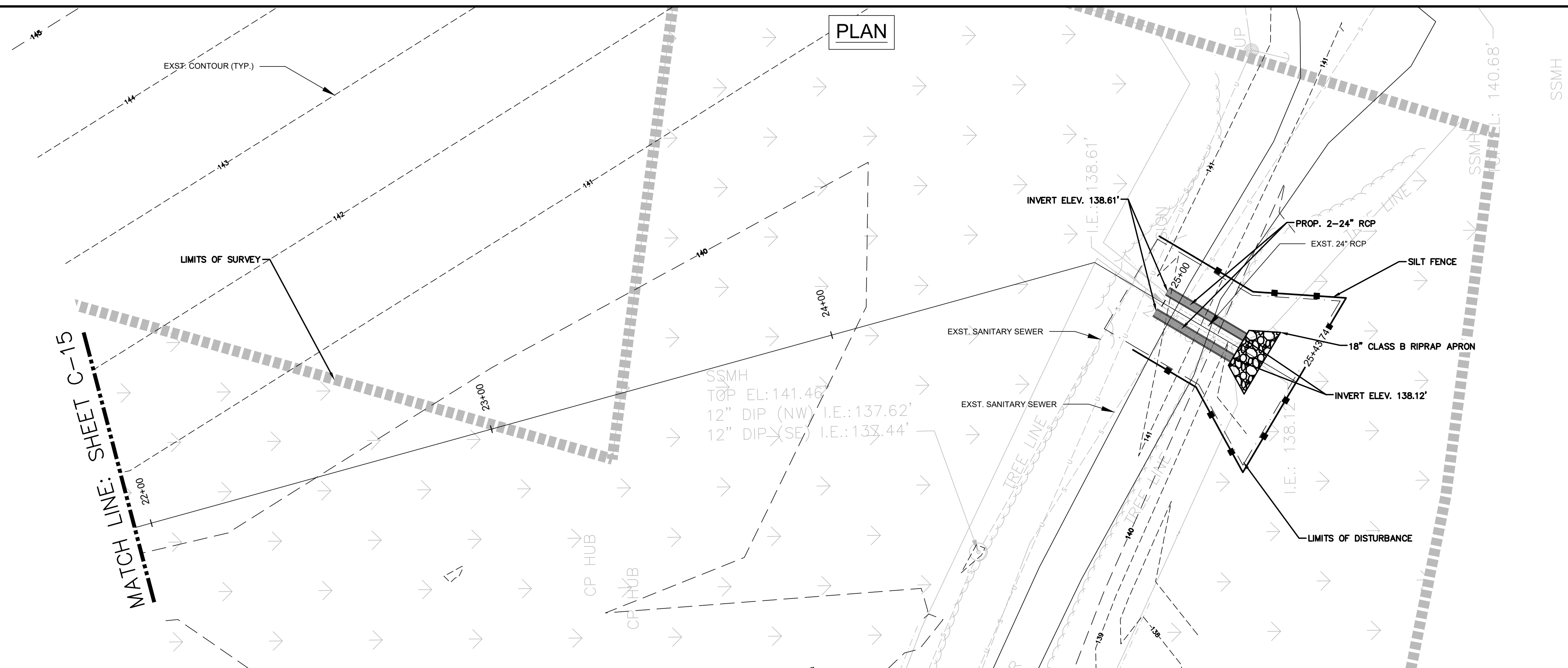
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FEBRUARY 2023	21.04018	N/A

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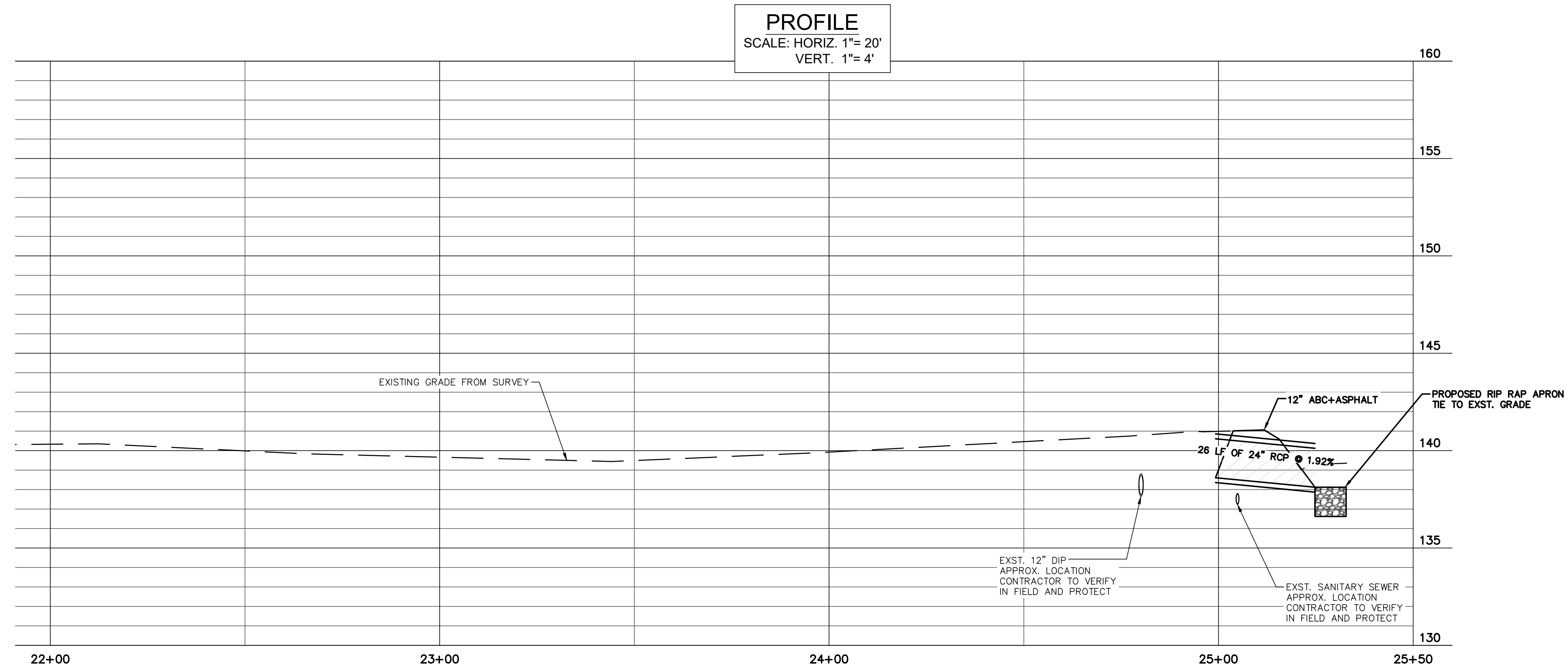
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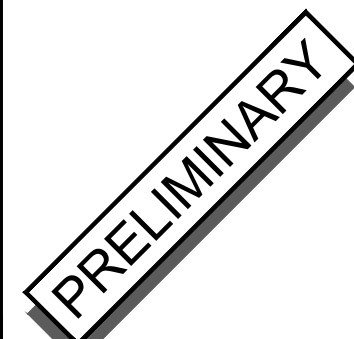




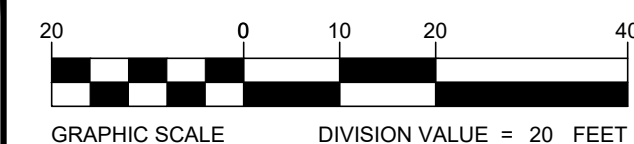
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ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



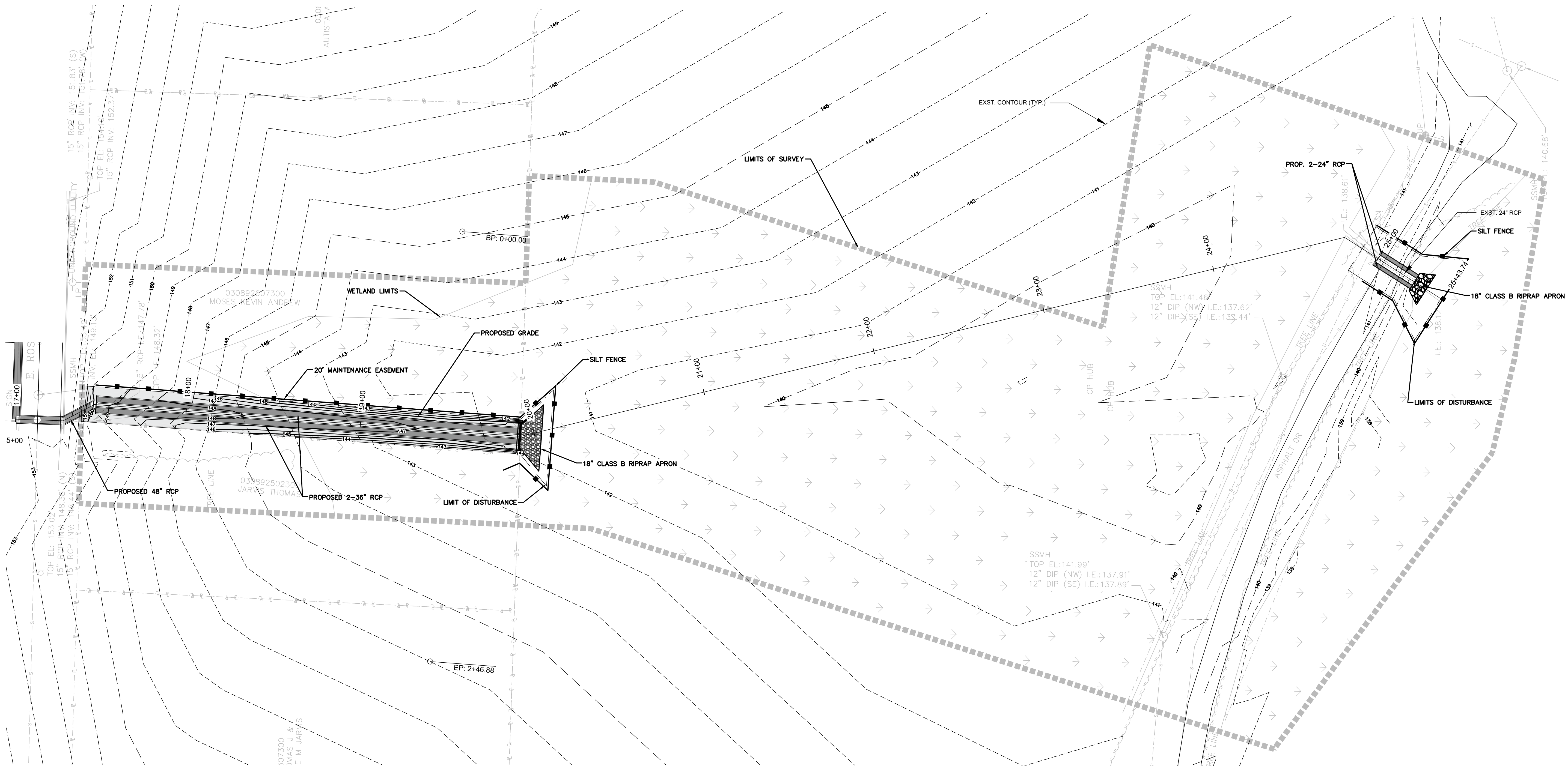
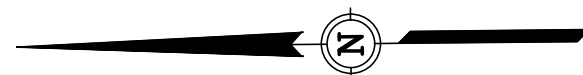
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

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C-16





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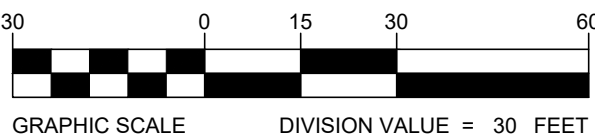
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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

OVERVIEW OF WETLAND IMPACTS  
STA. 17+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

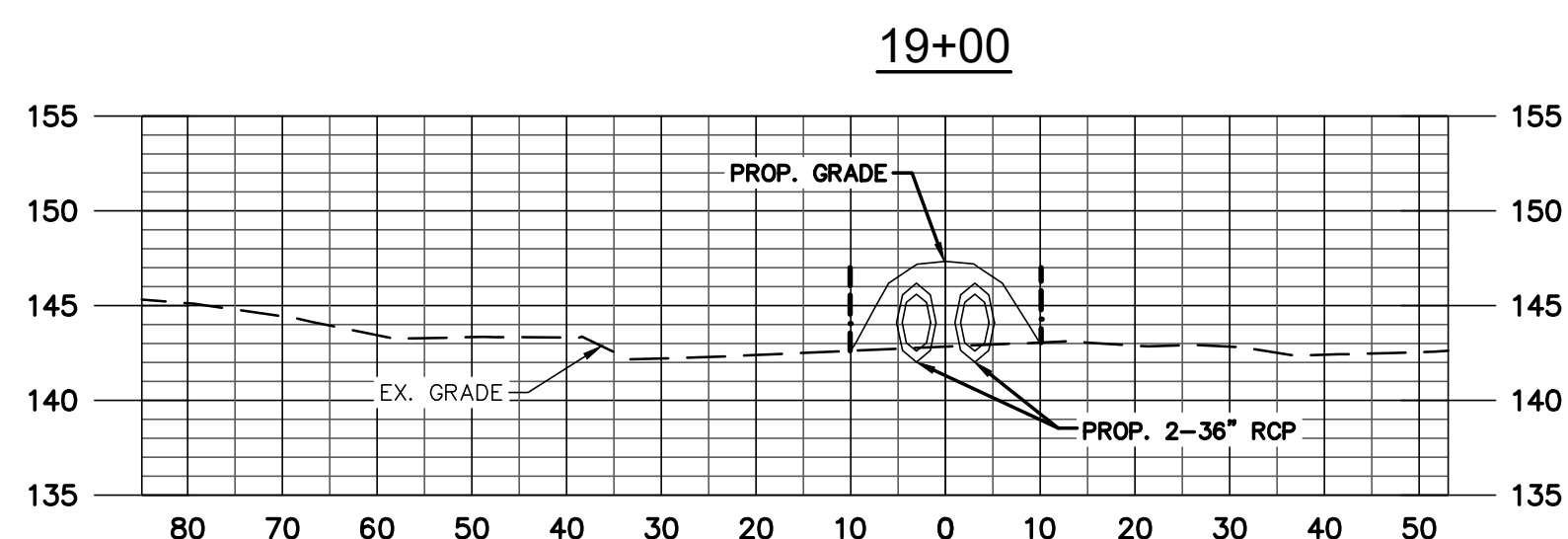
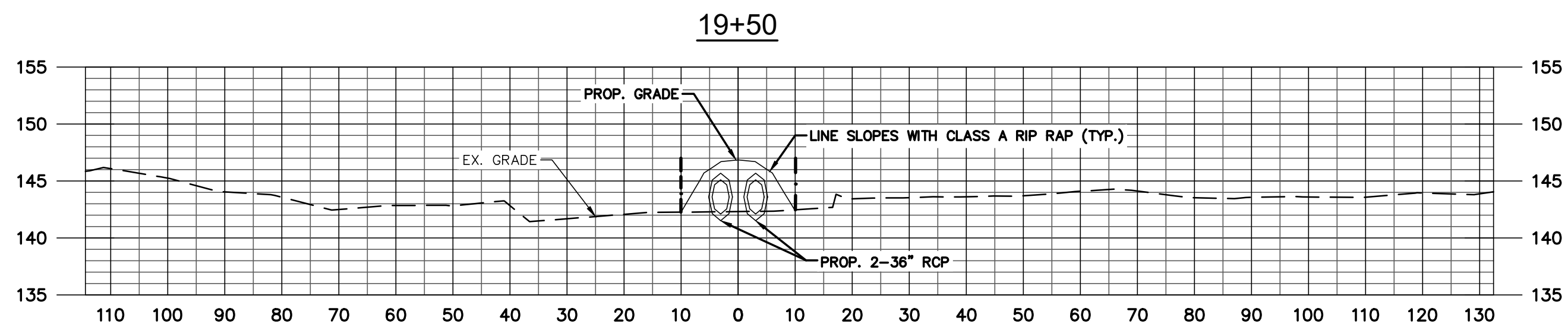
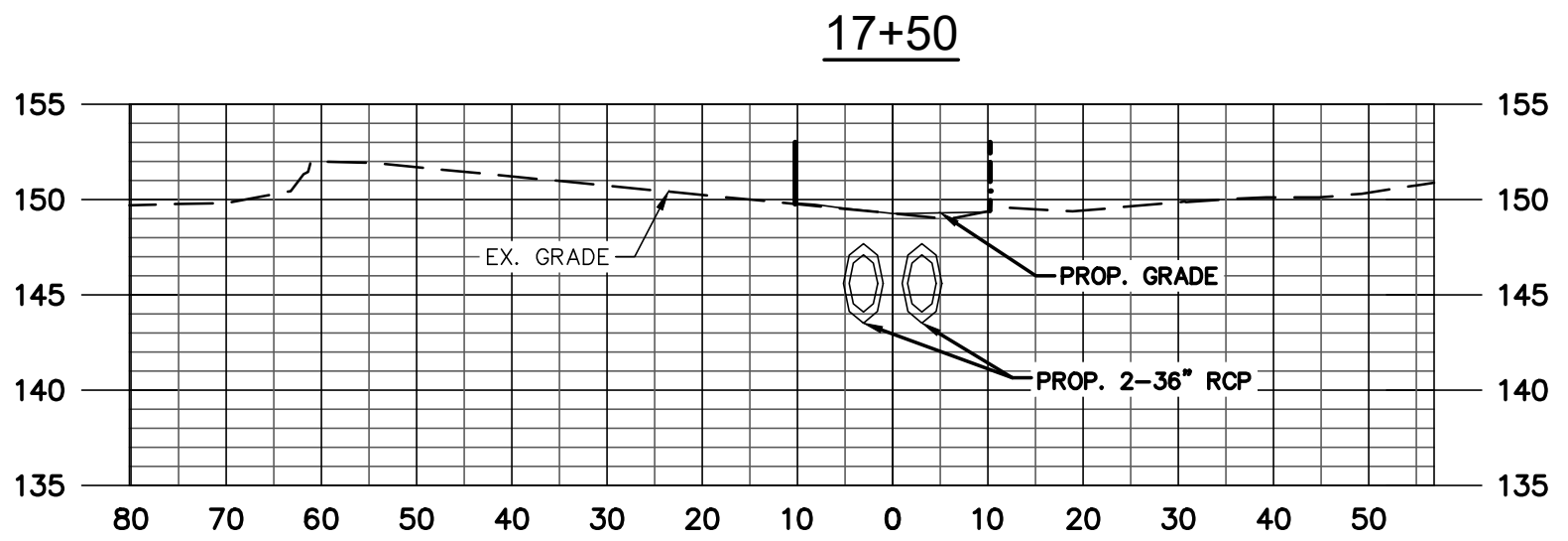
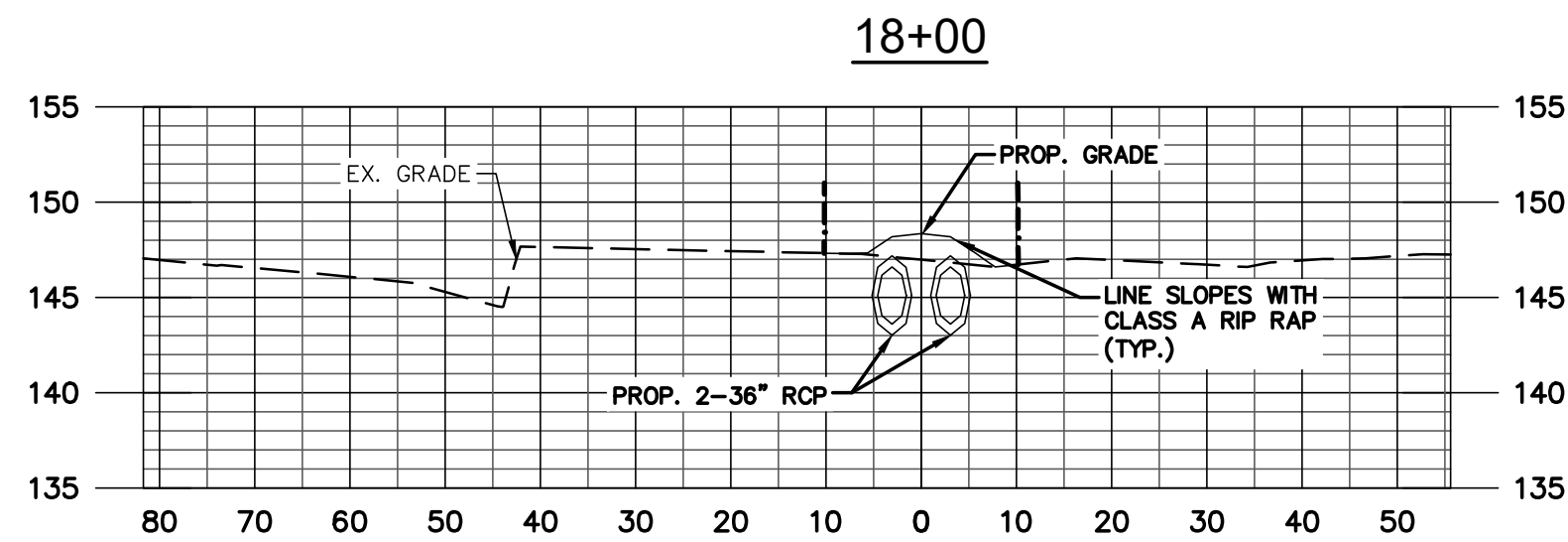
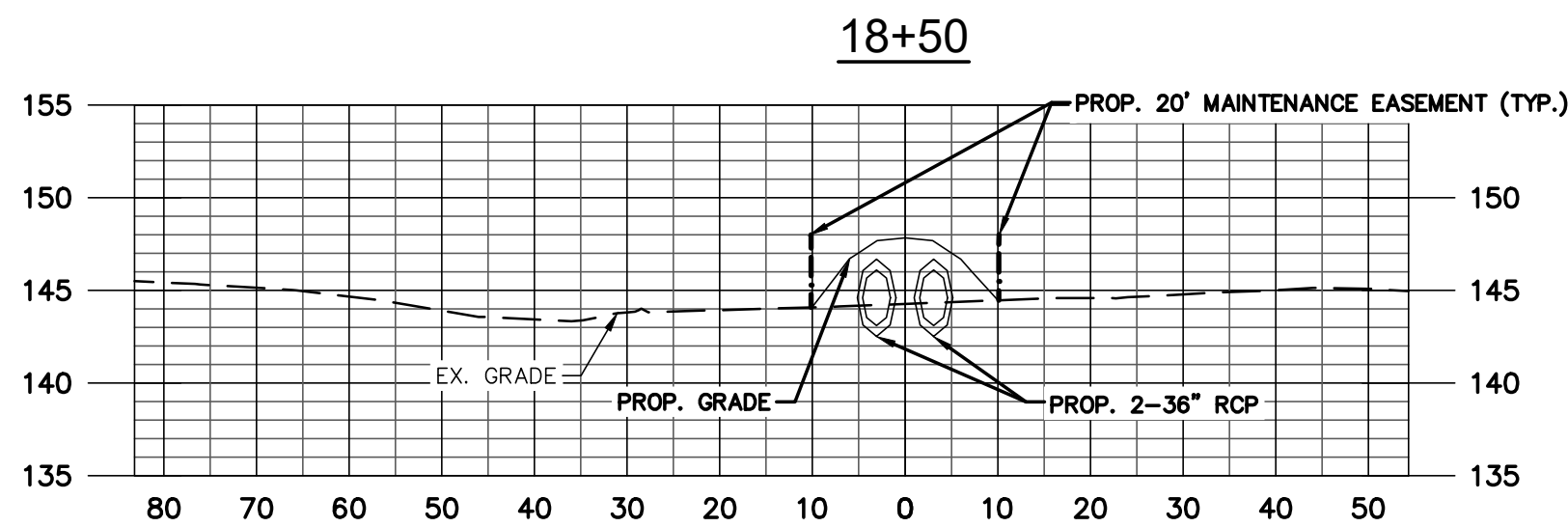
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C-17

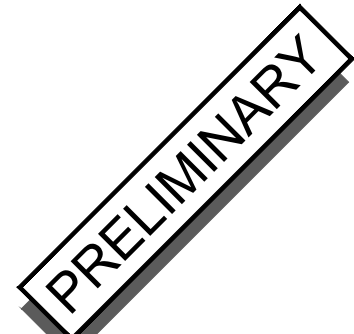


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SECTION  
SCALE: HORIZ. 1"= 20'  
VERT. 1"= 2'



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NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

20 0 10 20 40 GRAPHIC SCALE DIVISION VALUE = 20 FEET	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

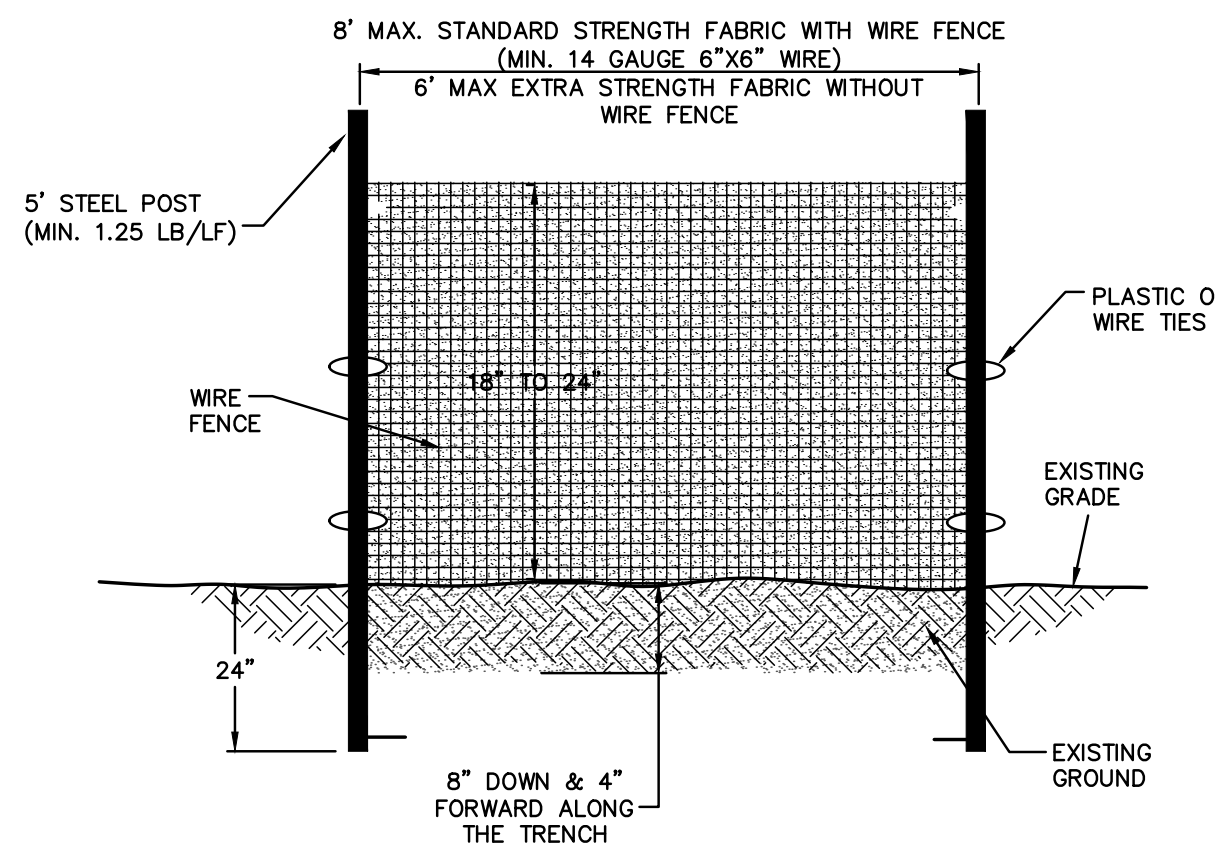
CROSS SECTIONS 17+50-20+00		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET

C-20

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS

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#### NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. REFERENCE NCDCEQ LAND QUALITY SECTION DESIGN MANUAL: 6.62.

#### MAINTENANCE:

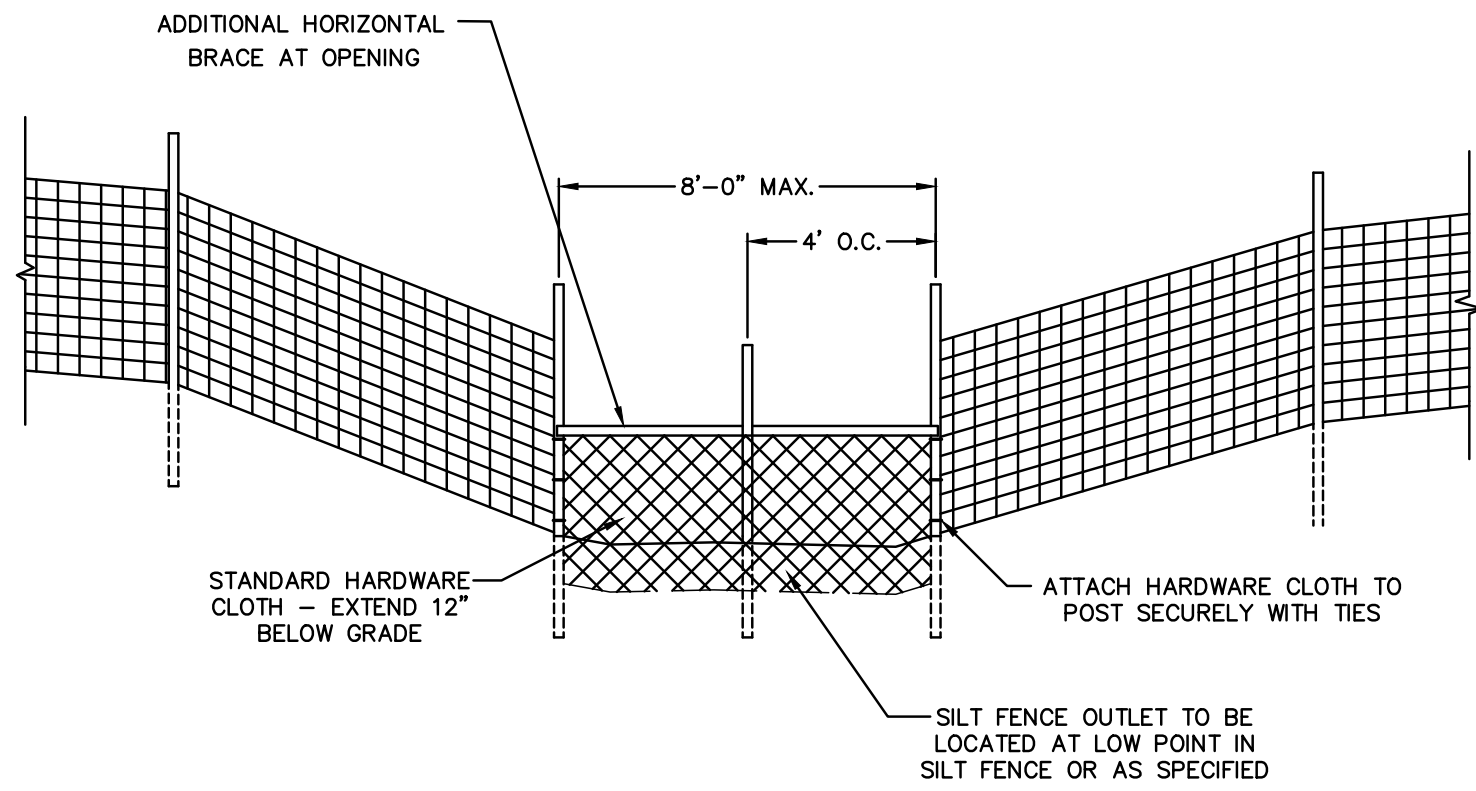
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SLOPE	SLOPE LENGTH(FT)	MAXIMUM AREA(SQFT)
<2%	100	10,000
2 TO 5%	75	7,500
5 TO 10%	50	5,000
10 TO 20%	25	2,500
>20%	15	1,500

SECTION VIEW

### ① SILT FENCE

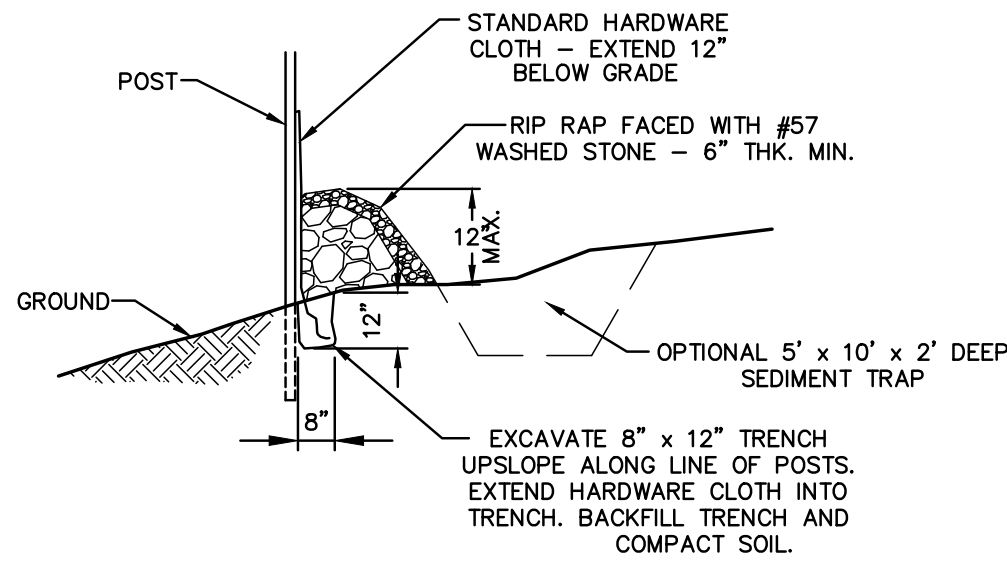
NOT TO SCALE



ELEVATION

#### NOTES:

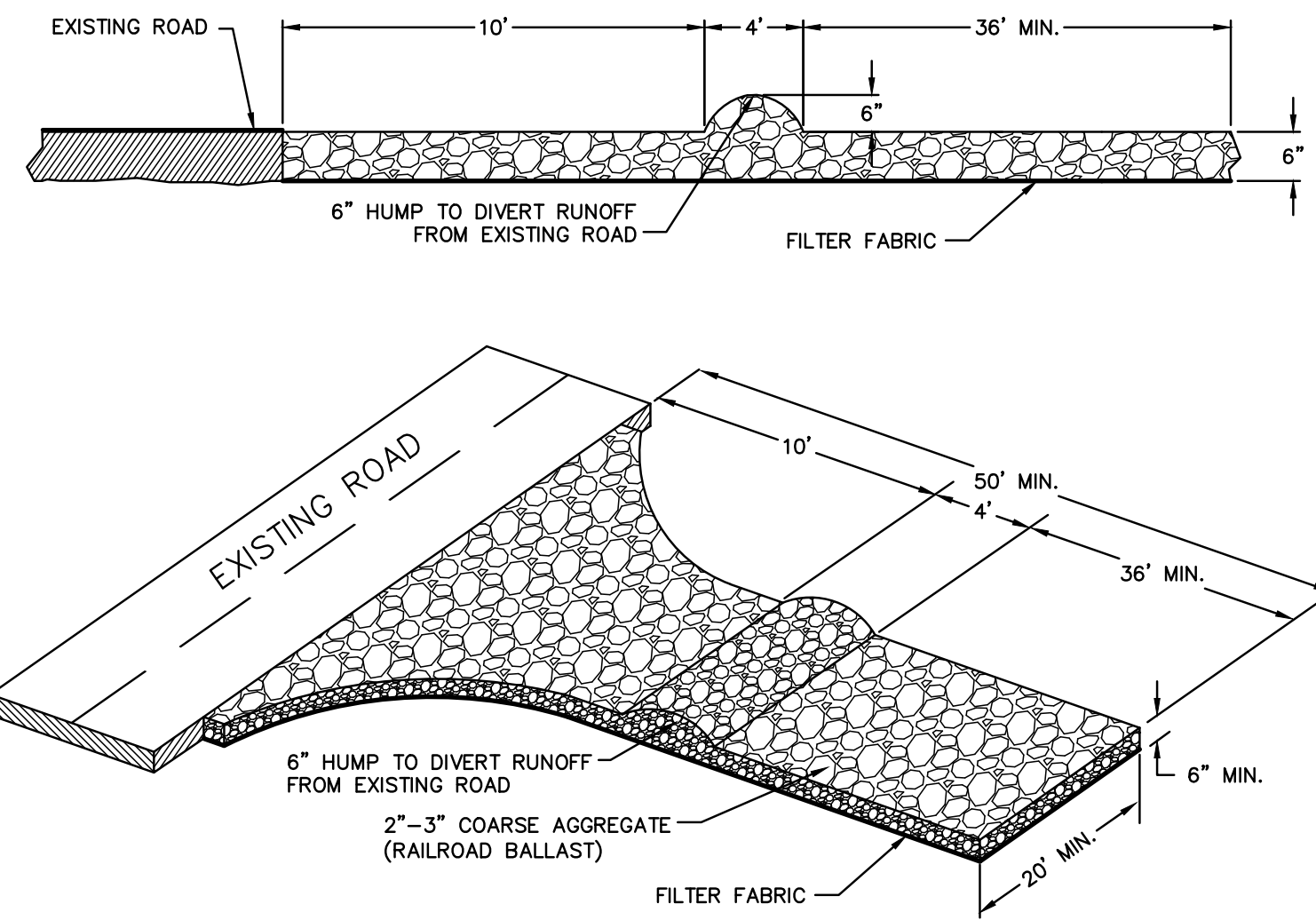
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. SILT FENCE OUTLETS SHALL BE LOCATED AT LOW POINTS IN CONTINUOUS RUNS OF SILT FENCE.



SECTION VIEW

### ② SILT FENCE - OUTLET

NOT TO SCALE



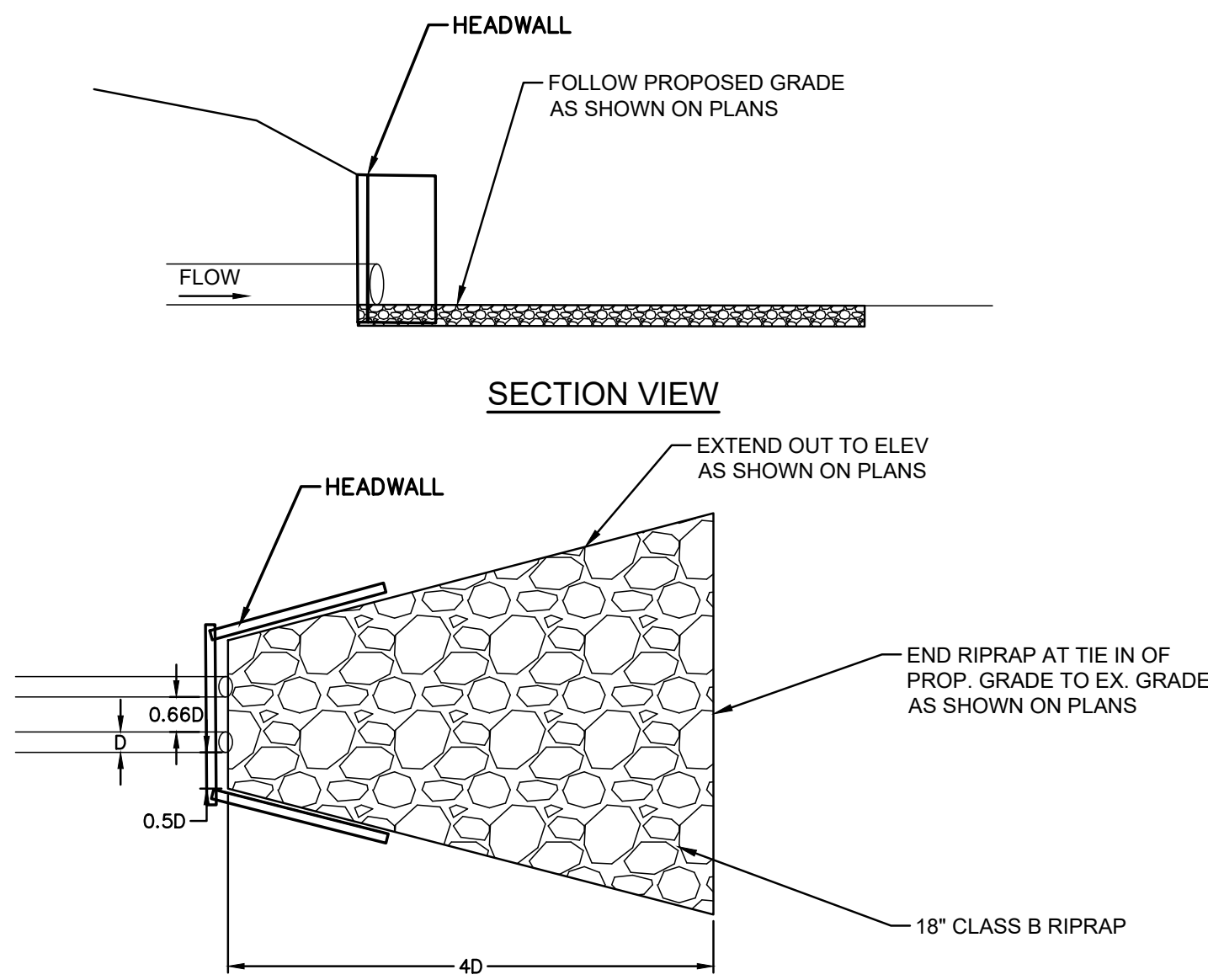
#### NOTES:

1. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM AN EXISTING ROAD.
2. STONE TO BE 2 - 3 INCH WASHED STONE RAILROAD BALLAST.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. REFERENCE NCDCEQ LAND QUALITY SECTION DESIGN MANUAL: 6.06.

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24

### TEMPORARY CONSTRUCTION ENTRANCE

UPDATED MARCH, 2017  
NOT TO SCALE

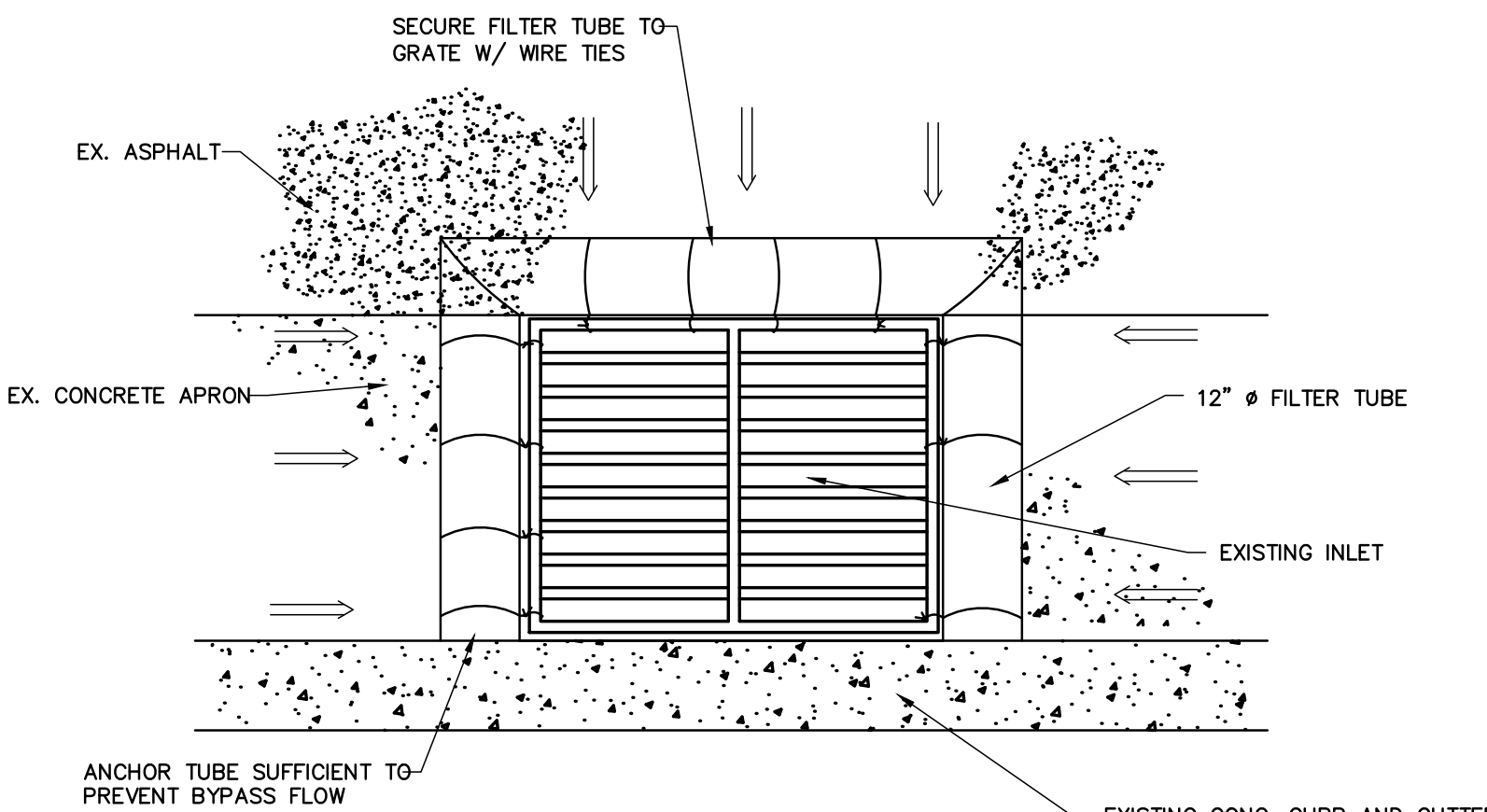


SECTION VIEW

PLAN VIEW

### ③ PERMANENT RIPRAP OUTLET PROTECTION

NOT TO SCALE



### FILTER TUBE INLET PROTECTION - PAVED CONDITION - CURB AND GUTTER SECTION

NOT TO SCALE

NOTE:  
REMOVE SEDIMENT FROM BEHIND FILTER TUBE WHEN DEPTH  
HAS REACHED APPROXIMATELY 6"

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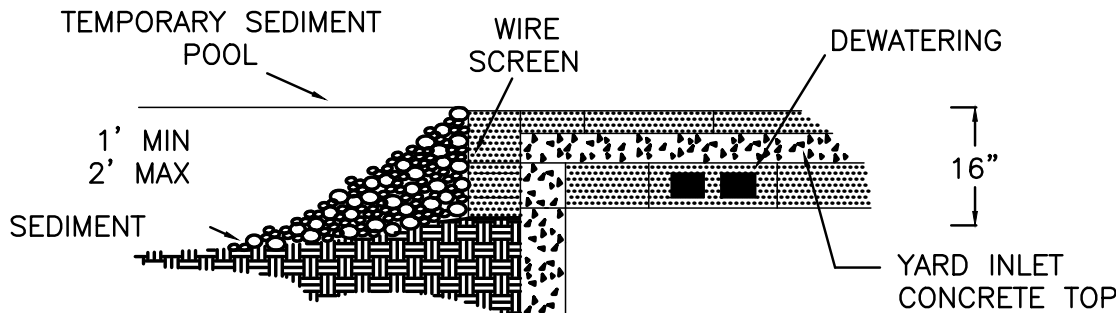
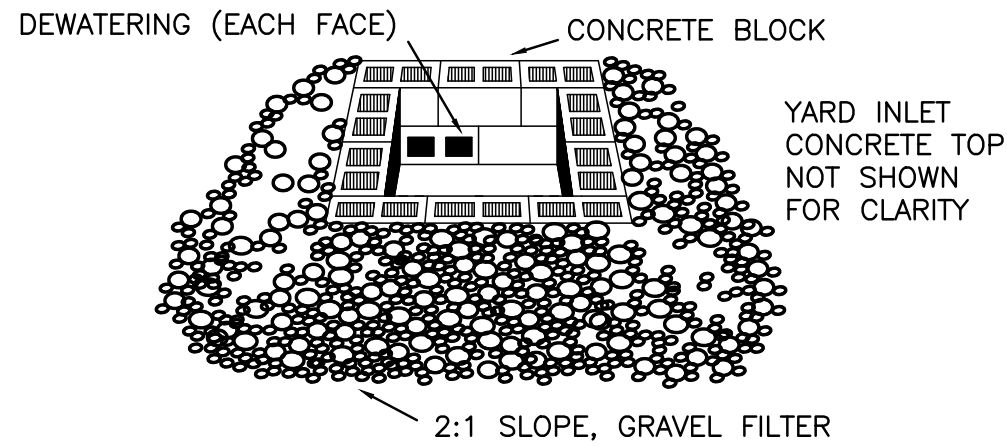
NO.	DATE	BY	DESCRIPTION

50 0 25 50 100 GRAPHIC SCALE DIVISION VALUE = 50 FEET	OFFICE MANAGER B. ROARK DESIGNER C. HEATHCOAT PROJECT MANAGER D. SABEH REVIEWER D. SABEH
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DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A



V:\04018-2\TOWN OF ST. PAULS\ELIZABETH+JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\C-30 EROSION CONTROL DETAIL DWG.PLOT DATE: 1/31/2023 8:22 PM KAUJA BEESLEY

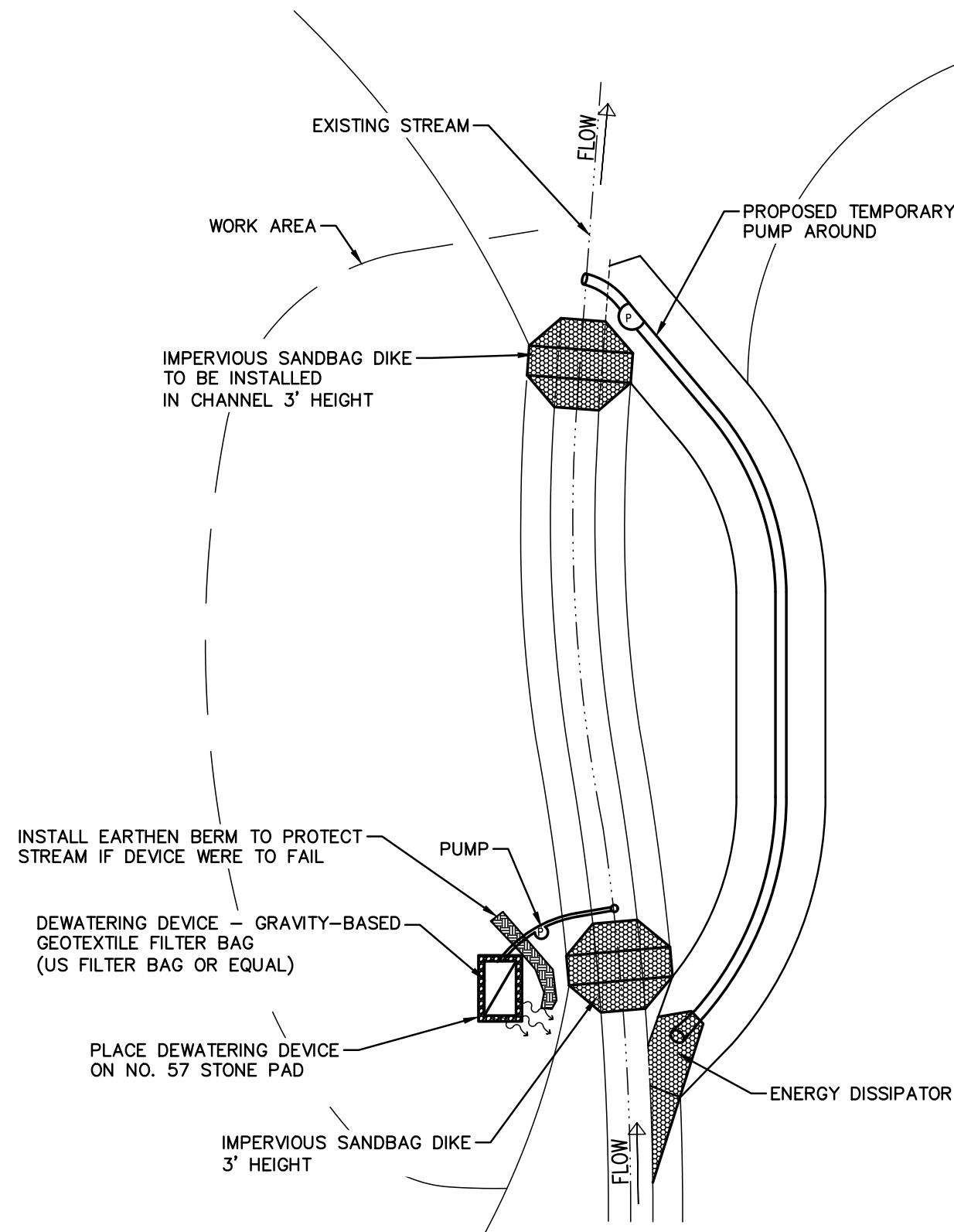


MAINTENANCE REQUIREMENTS:

1. CONTRACTOR SHALL INSPECT THE GRAVEL FILTER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.
2. CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, CONTRACTOR SHALL REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL. CONTRACTOR SHALL BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT AND APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

**4 TYPICAL GRATE INLET PROTECTION DETAIL (TEMPORARY)**

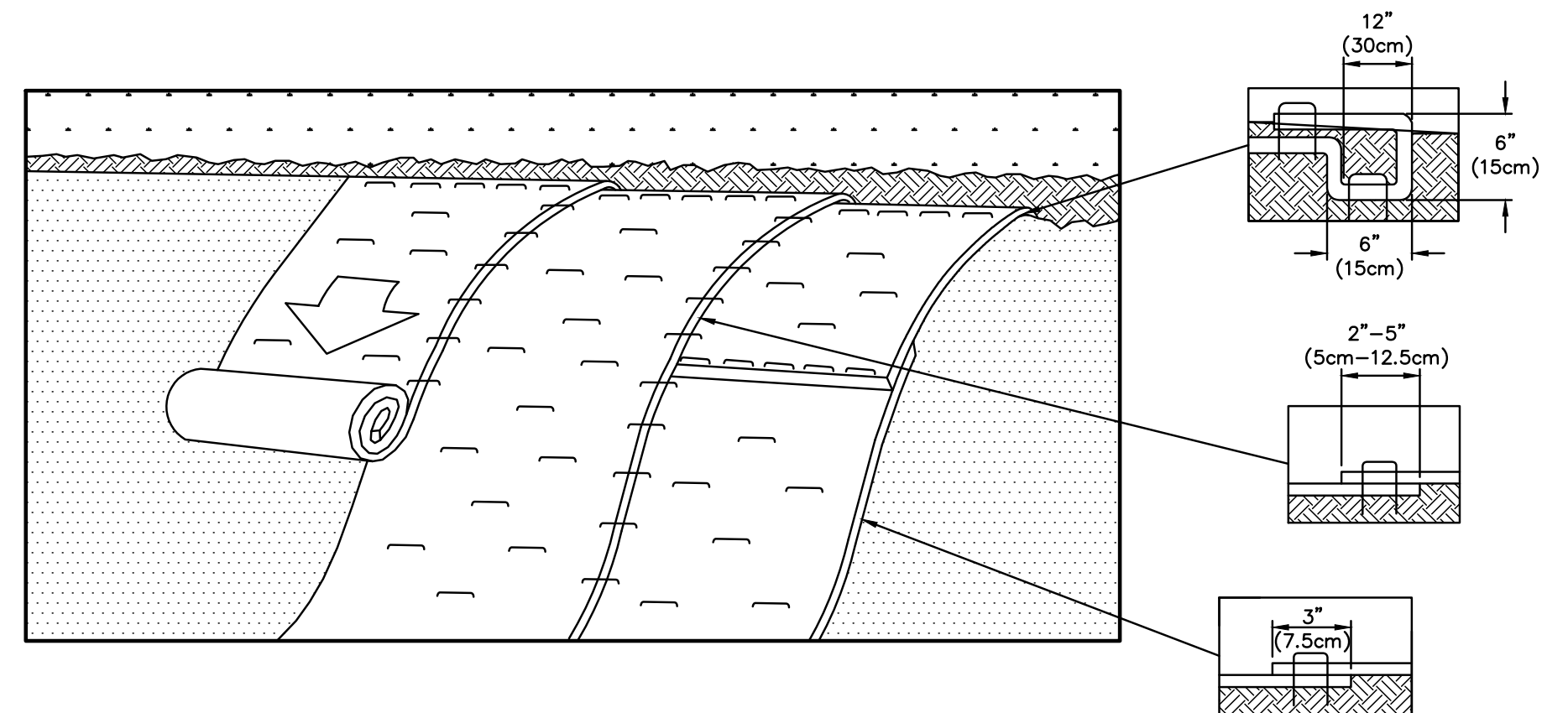
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NOTES:

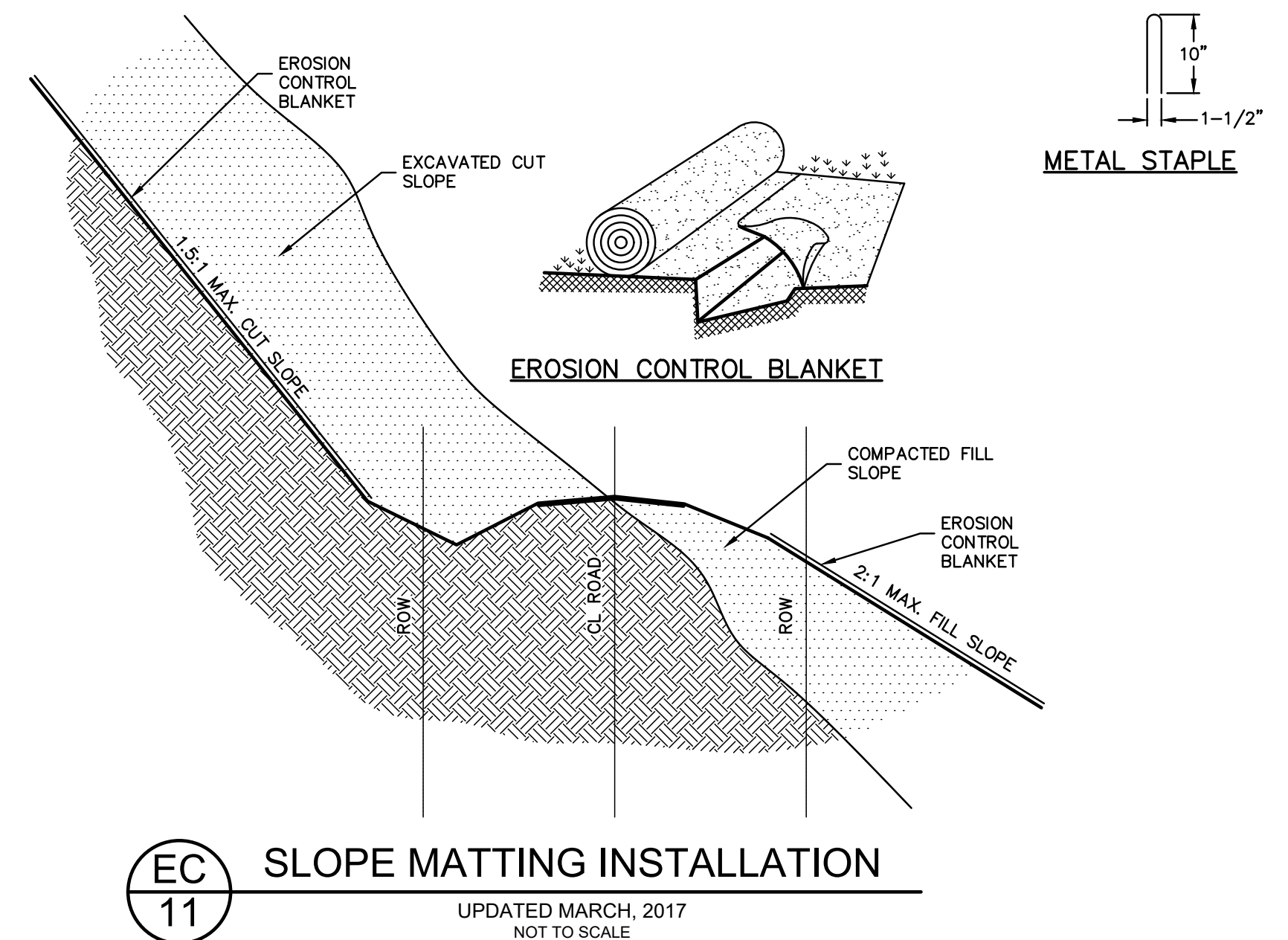
1. PUMP AROUND SYSTEM SHALL BE USED IN THE AREA OF CONSTRUCTION AND SHALL BE MOVED AS NEEDED AS CONSTRUCTION PROGRESSES.
2. CONTRACTOR SHALL FIRST INSTALL ALL EROSION CONTROL MEASURES AS SHOWN IN PLANS AND ABOVE DETAIL.
3. CONSTRUCT IMPERVIOUS DIKE ON UPSTREAM SIDE OF EXISTING CHANNEL AND INSTALL TEMPORARY BYPASS PUMP TO DIVERT WATER AROUND CONSTRUCTION AREA.
4. CONSTRUCT IMPERVIOUS DIKE ON DOWNSTREAM SIDE OF EXISTING CHANNEL TO PREVENT BACKING UP OF STREAM WATER INTO THE CONSTRUCTION AREA.
5. DEWATER THE CONSTRUCTION AREA USING ANOTHER TEMPORARY PUMP AND DISCHARGE THE WATER INTO A DEWATERING BASIN UNTIL SEDIMENT HAS SETTLED AND WATER CAN BE DISCHARGED BACK INTO THE STREAM.
6. BEGIN STREAM BANK REPAIR. CONTRACTOR SHALL INSPECT SYSTEM DAILY BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION SHALL CONTINUE IF SYSTEM IS NOT FULLY OPERATIONAL.
7. ANY WASH MATERIAL REMOVED FROM BYPASS AREA SHOULD BE STORED OUTSIDE THE FLOOD ZONE UNTIL CONSTRUCTION IS COMPLETE.
8. UPON COMPLETION OF STREAM BANK REPAIR, REMOVE BYPASS SYSTEM WITHIN TWO (2) CALENDAR DAYS.
9. STABILIZE ALL AREAS DISTURBED DURING CONSTRUCTION.
10. CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM ENGINEER IF CHOOSING TO USE ANOTHER METHOD IN LIEU OF BYPASS CHANNEL.

**TEMPORARY STREAM BYPASS DETAIL**



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S DOWN OR HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING AND SPACING STAPLES/STAKES IN APPROPRIATE LOCATIONS PER MANUFACTURER RECOMMENDATIONS.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
7. INSTALLATION OF MATTING SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS.
8. SEE GRADING PLAN FOR LOCATIONS O CUT AND FILL SLOPES.
9. MATTING SHALL BE : NORTH AMERICAN GREEN SC150, AMERICAN EXCELSIOR EROSION CONTROL BLANKET, OR EQUAL. INSTALL ON ALL DISTURBED SLOPES (CHOSEN PRODUCT MUST BE RATED FOR SLOPES OF 2:1 OR 1:1). SEE PLAN FOR PRODUCT TYPE THAT MAY BE SPECIFIED
10. ALLOW 3" MIN. OVERLAP BETWEEN PARALLEL STRIPS.
11. BURY THE TOP OF THE MAT IN A TRENCH 4" OR MORE IN DEPTH. TAMP THE TRENCH FULL SOIL. SECURE WITH ROW OF STAPLES, 10" SPACING, 4" DOWN FROM THE TRENCH. OVERLAP END OF TOP STRIP 4" AND STAPLE.



EC  
11

**SLOPE MATTING INSTALLATION**

UPDATED MARCH, 2017  
NOT TO SCALE

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

NO.	DATE	BY	DESCRIPTION

50 0 25 50 100 GRAPHIC SCALE DIVISION VALUE = 50 FEET	OFFICE MANAGER B. ROARK DESIGNER C. HEATHCOAT PROJECT MANAGER D. SABEH REVIEWER D. SABEH
---	---

**EROSION CONTROL DETAIL 2 OF 2**

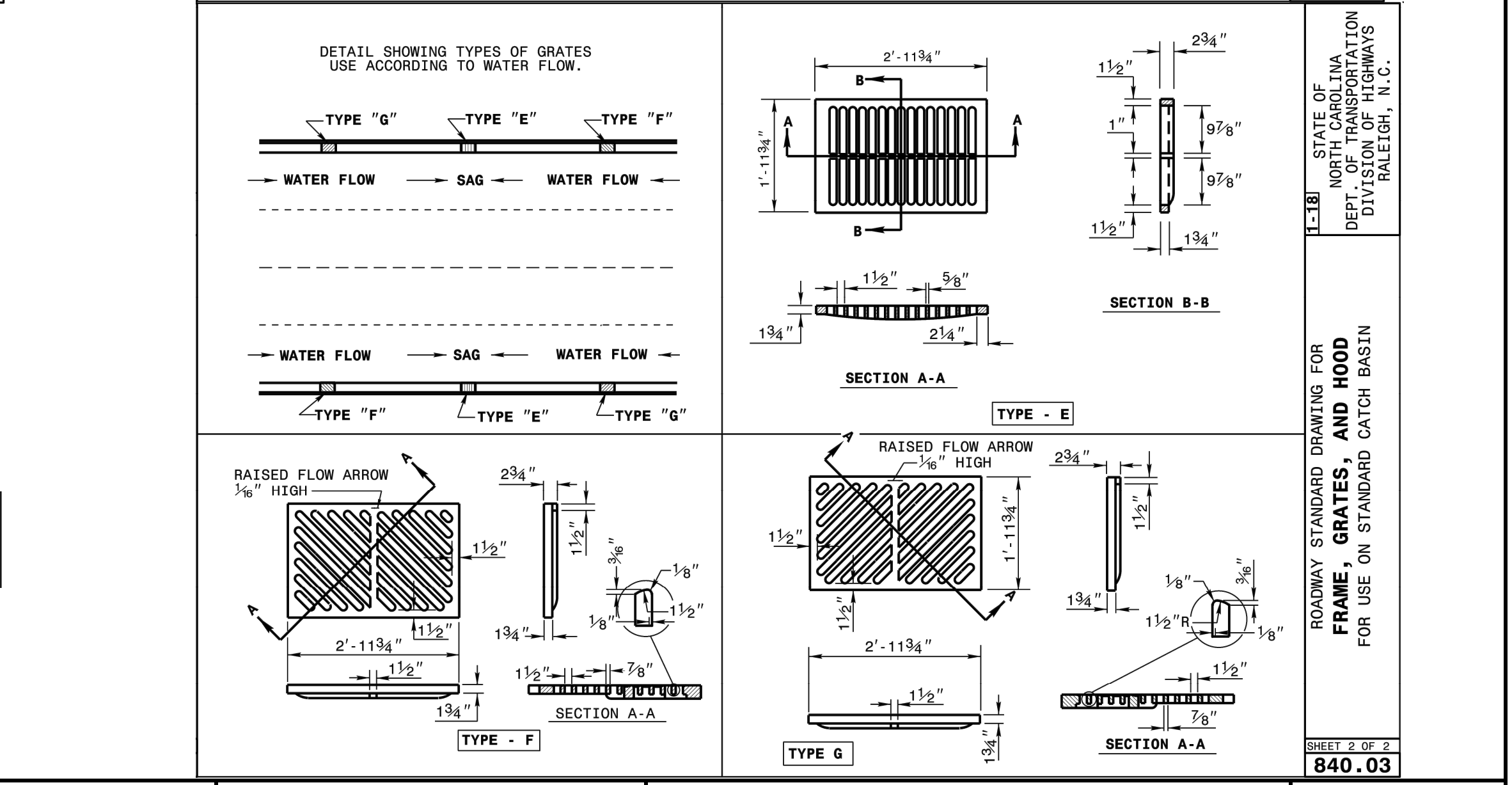
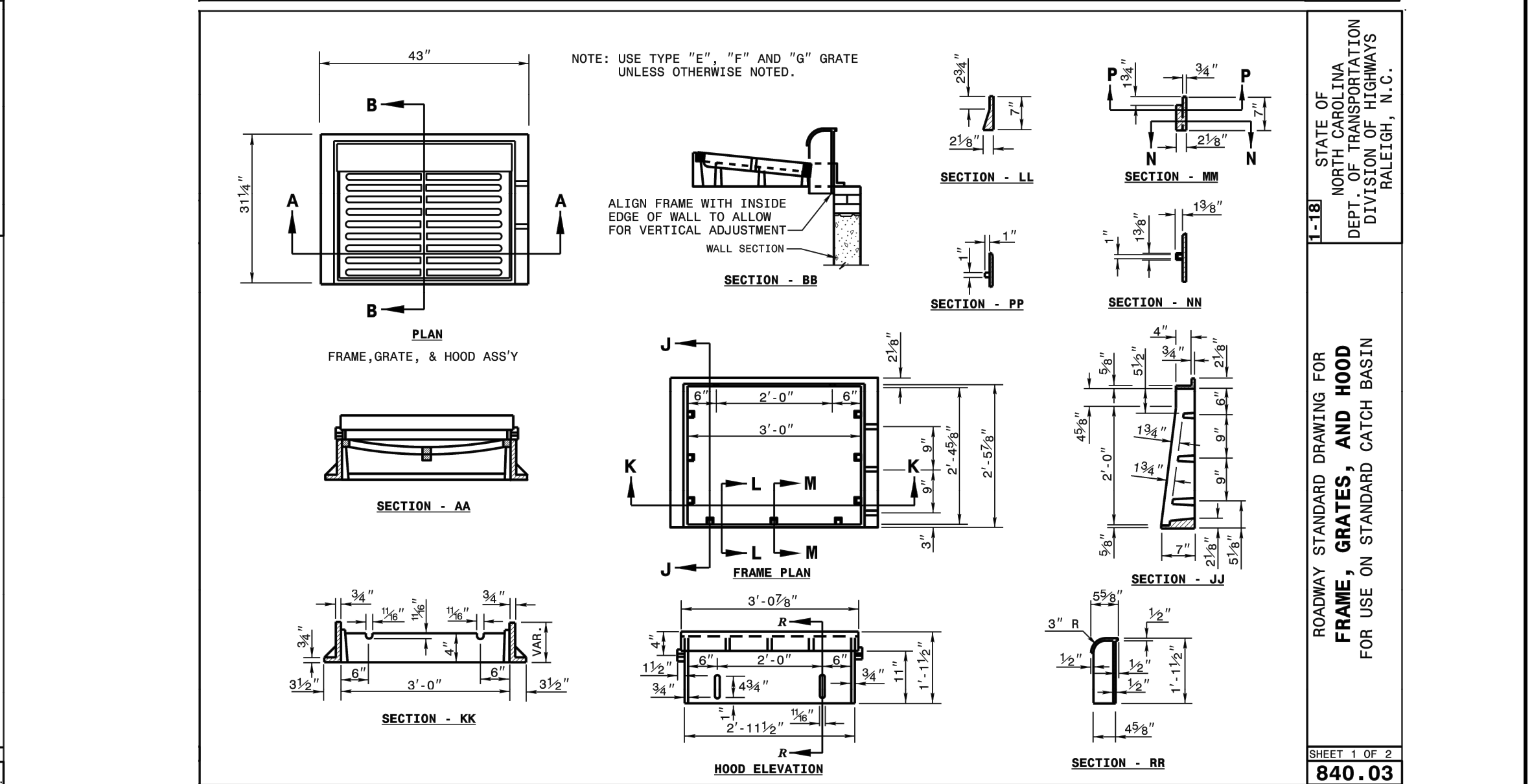
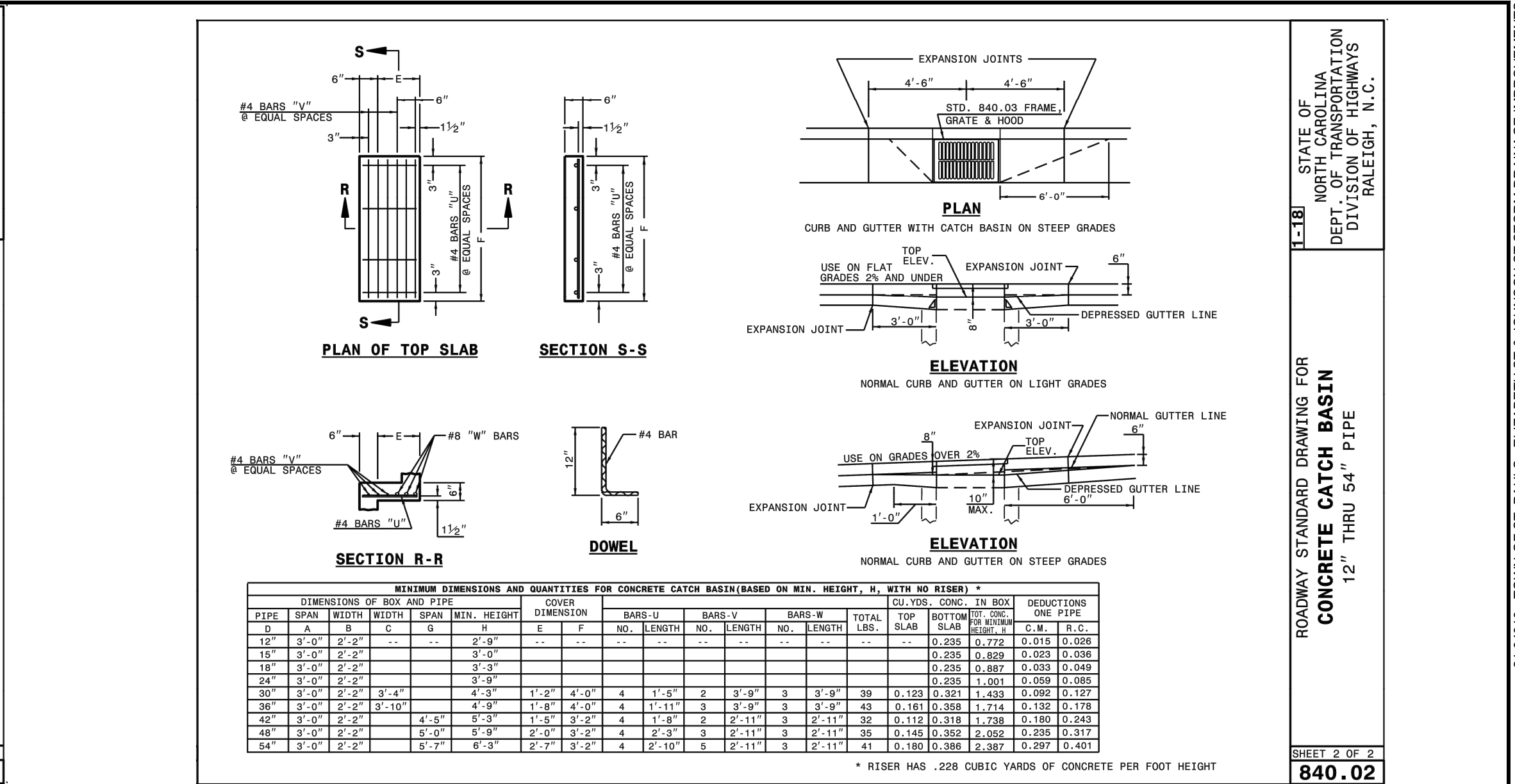
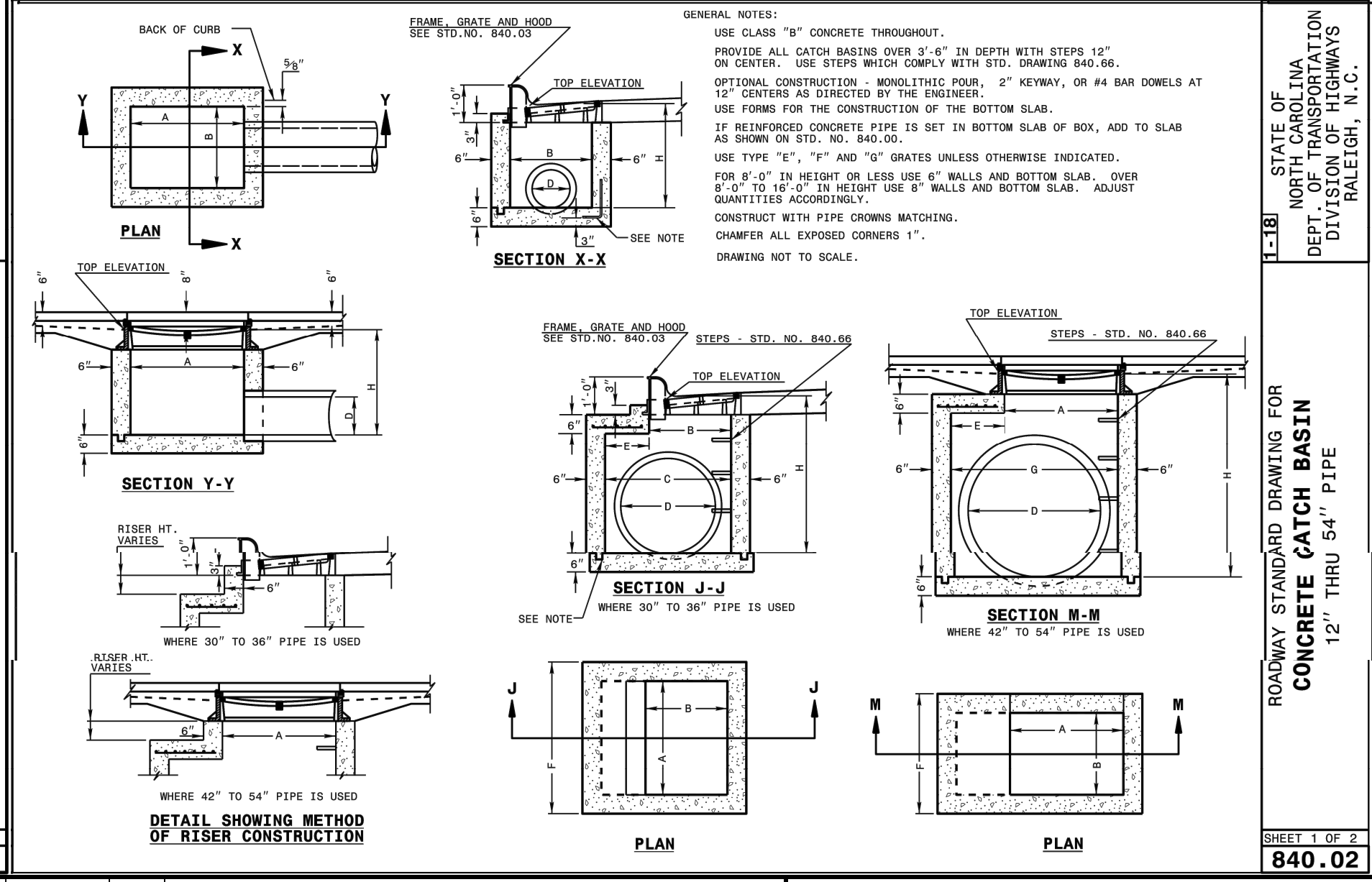
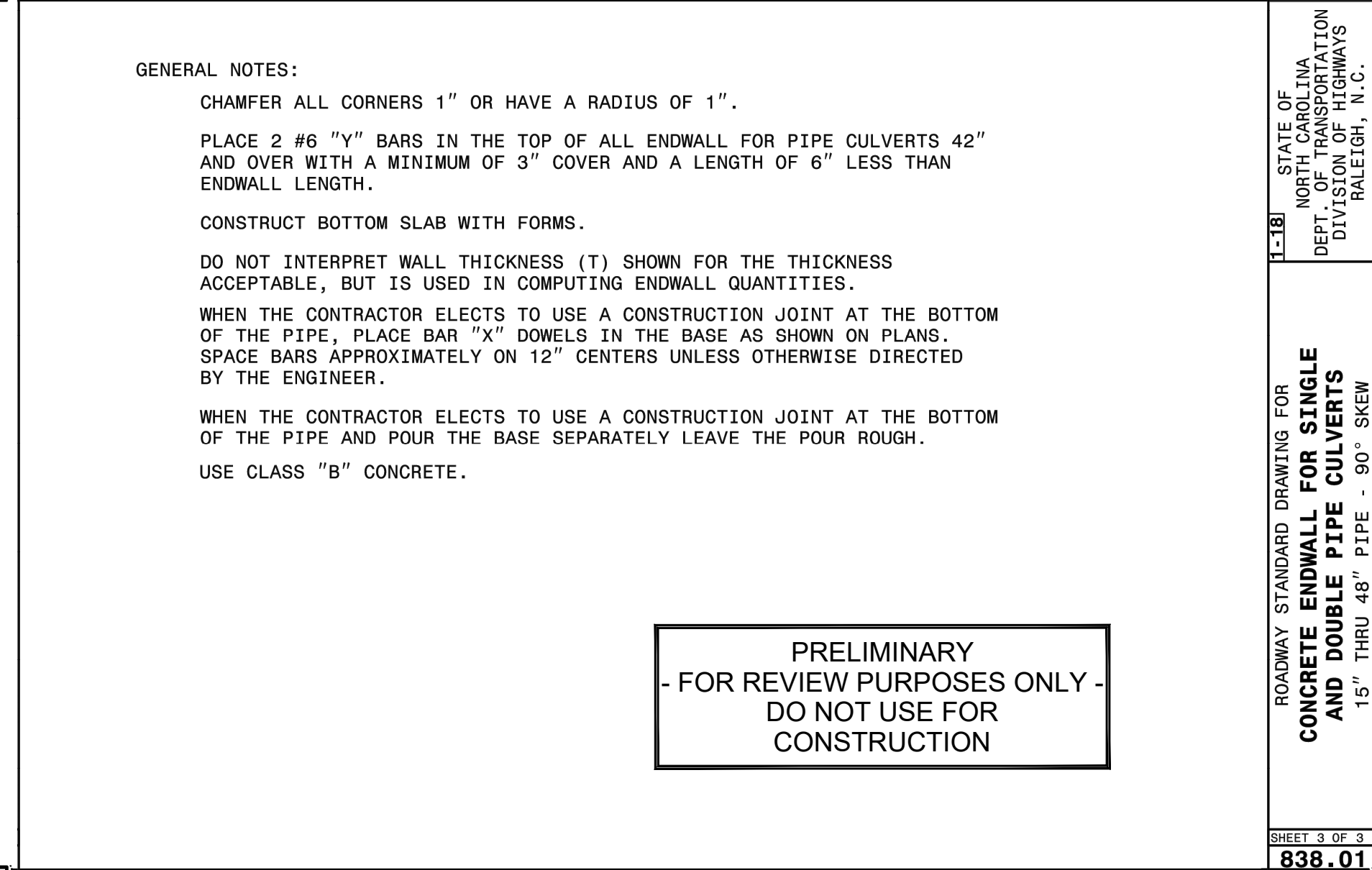
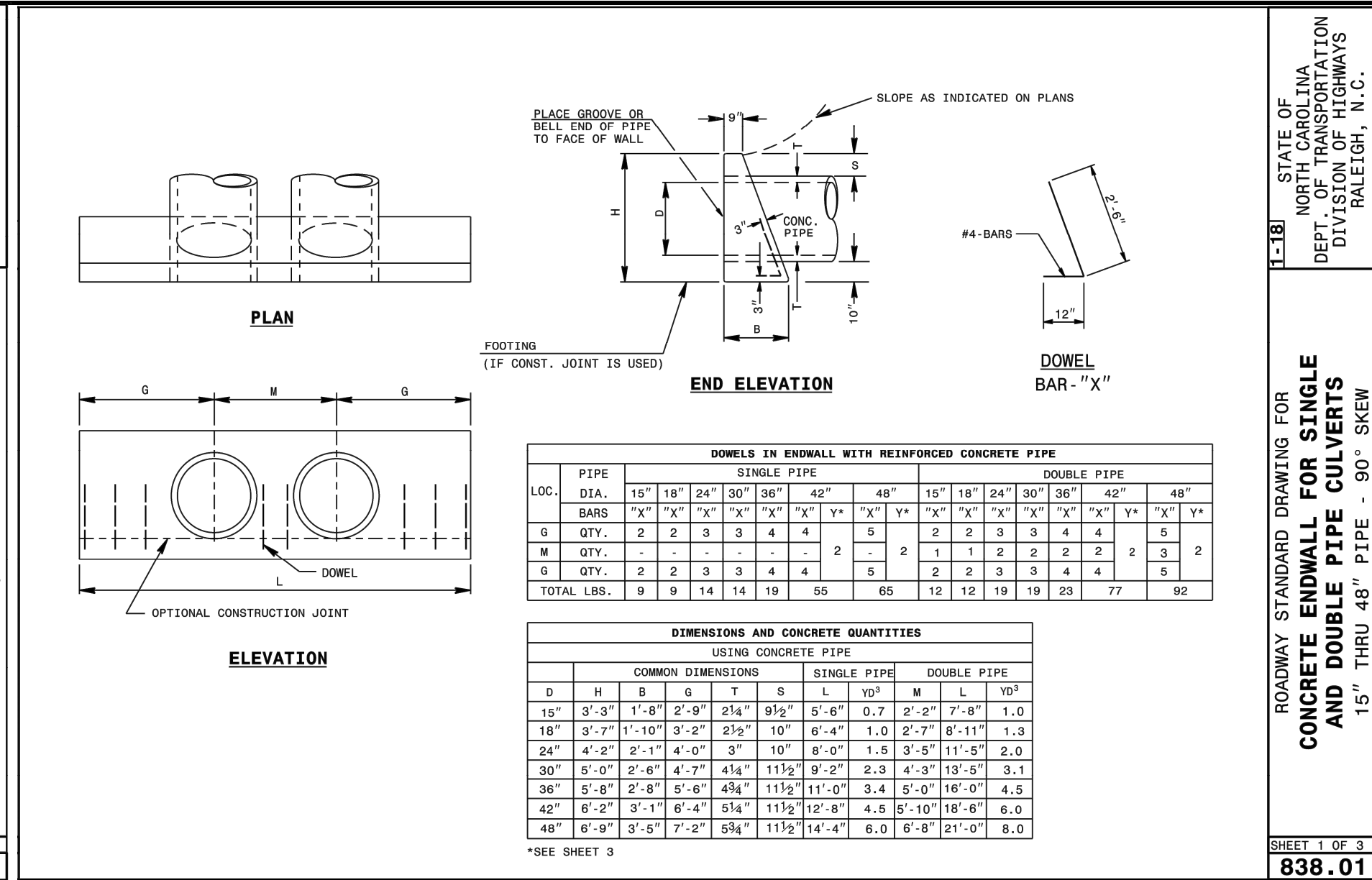
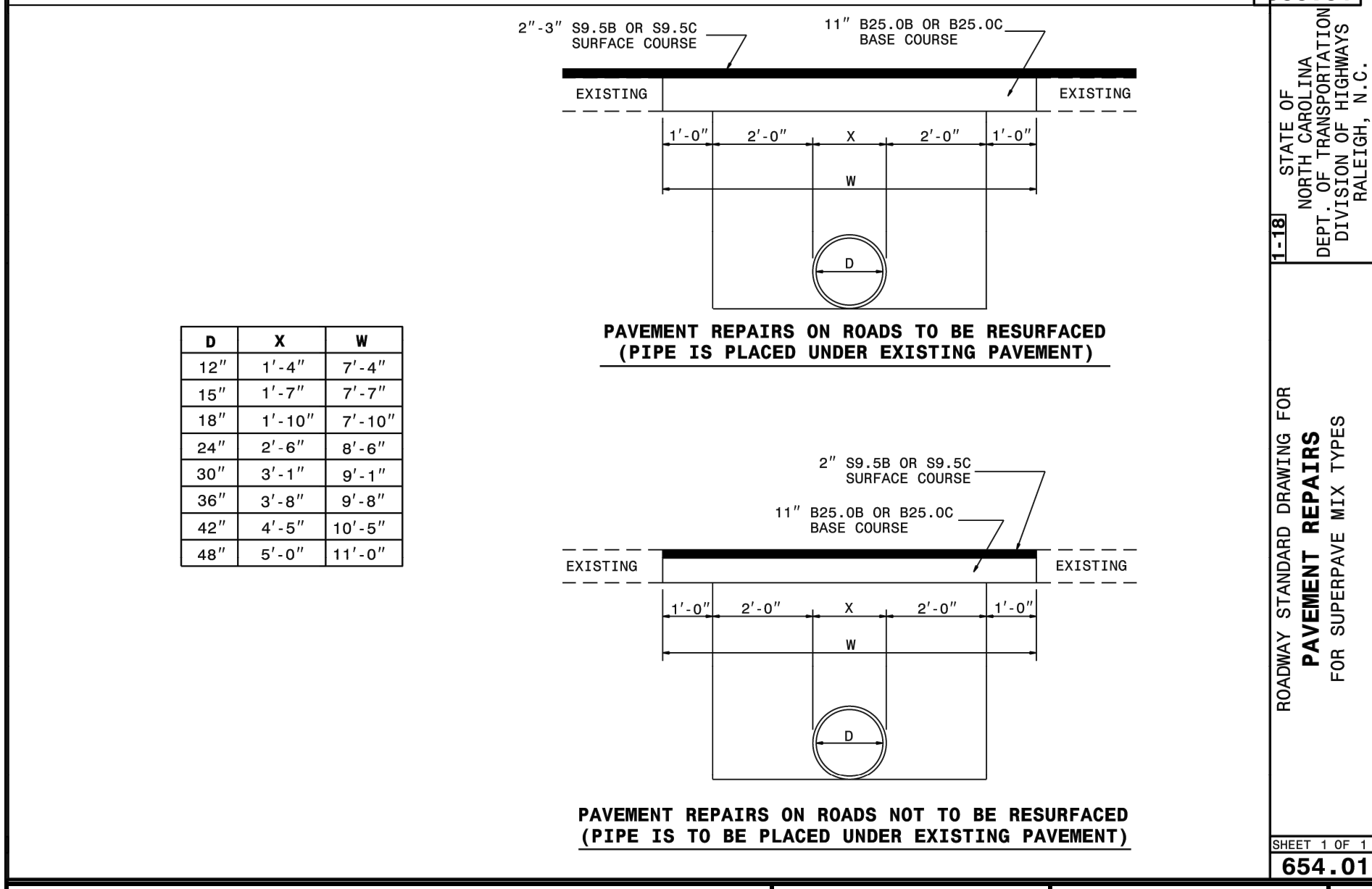
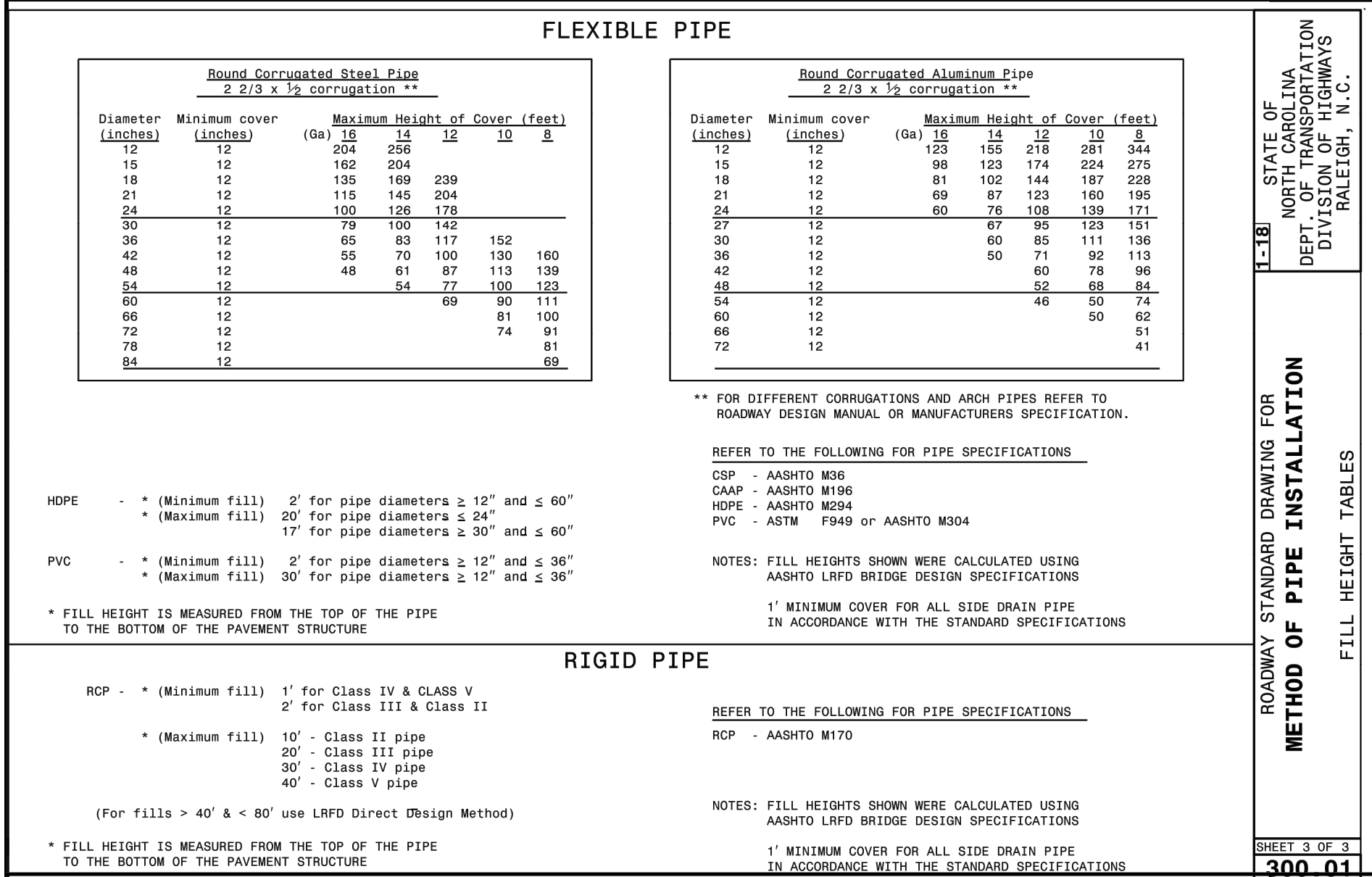
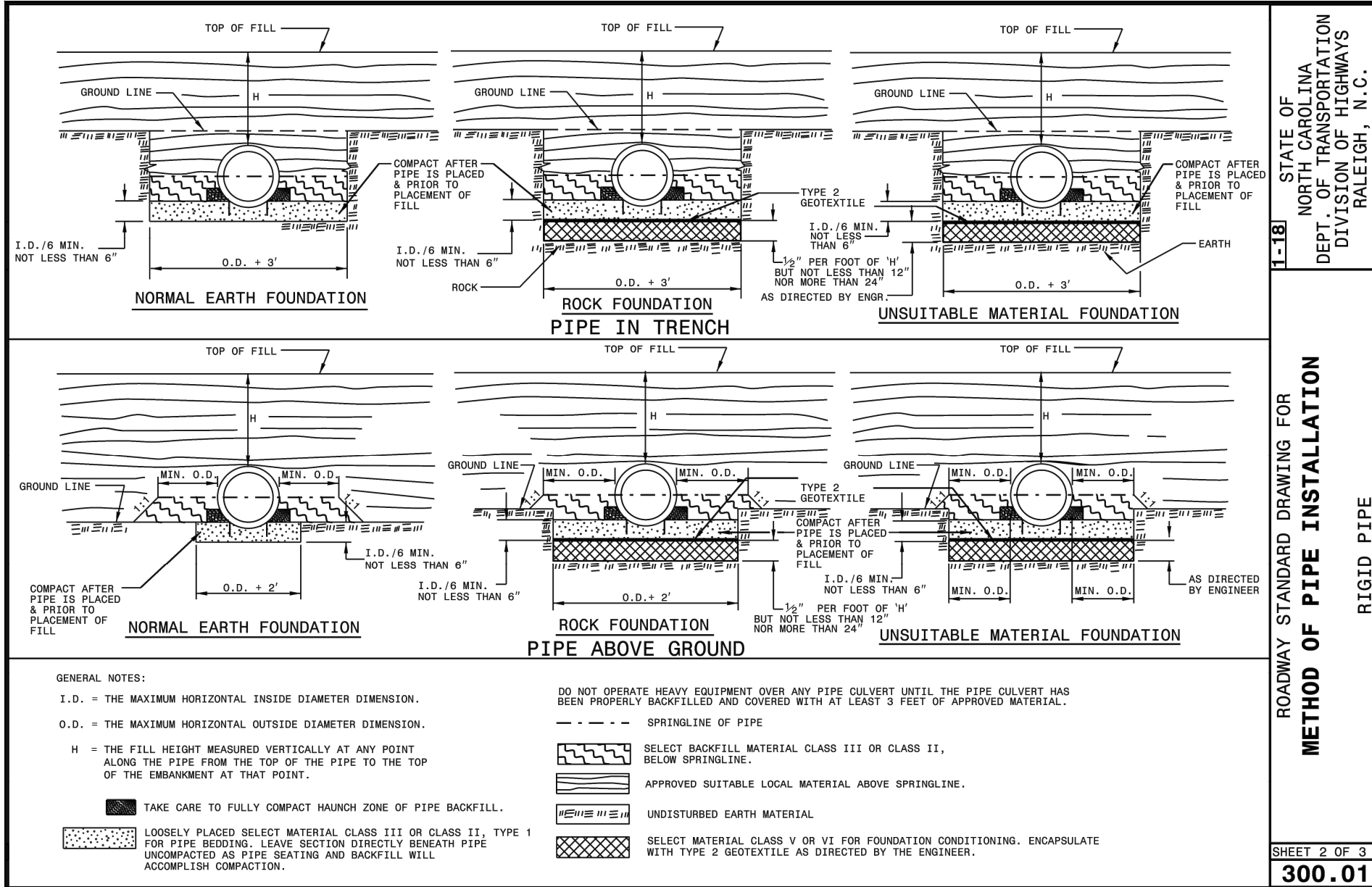
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A
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**SHEET**

**C-31**



W:\MCGILL\ENGINEERS\COMPCOMPANY\SHARE\MCGILL PROJECTS\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE IMPROVEMENTS\DRWG SHEETS\C-31 MISCELLANEOUS DETAILS DWG PLOT DATE 1/31/2023 6:23 PM KALIA BEESLEY











## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

April 13, 2022 Ver 4.3

Please note: fields marked with a red asterisk \* below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

### A. Processing Information

#### Pre-Filing Meeting Date Request was submitted on: \*

10/11/2021

If this is a courtesy copy, please fill in this with the submission date.

#### County (or Counties) where the project is located: \*

Robeson

#### Is this a NCDMS Project? \*

☐ Yes ☒ No

Click Yes, only if NCDMS is the applicant or co-applicant.

**DO NOT CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.**

#### Is this project a public transportation project? \*

☐ Yes ☒ No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

#### 1a. Type(s) of approval sought from the Corps: \*

- ☒ Section 404 Permit (wetlands, streams and waters, Clean Water Act)  
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

#### Has this PCN previously been submitted? \*

☐ Yes  
☒ No

#### 1b. What type(s) of permit(s) do you wish to seek authorization? \*

- ☒ Nationwide Permit (NWP)  
☐ Regional General Permit (RGP)  
☐ Standard (IP)

#### 1c. Has the NWP or GP number been verified by the Corps? \*

☐ Yes ☒ No

Nationwide Permit (NWP) Number:

14 - Linear transportation

Nationwide Permit (NWP) Number:

18 - Minor Discharges

#### NWP Numbers (for multiple NWPS):

NWP 14 - Linear Transportation and NWP - 18 Minor Discharges

List all NW numbers you are applying for not on the drop down list.

#### 1d. Type(s) of approval sought from the DWR: \*

check all that apply

- |  |  |
|--|--|
| <input type="checkbox"/> 401 Water Quality Certification - Regular             | <input type="checkbox"/> 401 Water Quality Certification - Express |
| <input type="checkbox"/> Non-404 Jurisdictional General Permit                 | <input type="checkbox"/> Riparian Buffer Authorization             |
| <input checked="" type="checkbox"/> Individual 401 Water Quality Certification |  |

#### 1e. Is this notification solely for the record because written approval is not required?

\*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

1f. Is this an after-the-fact permit application? \*

☐ Yes ☒ No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

☐ Yes ☒ No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? \*

☐ Yes ☒ No

1j. Is the project located in a designated trout watershed? \*

☐ Yes ☒ No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

## B. Applicant Information



1a. Who is the Primary Contact? \*

Jon Swaim

1b. Primary Contact Email: \*

jon.swaim@mcgillassociates.com

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(828)328-2024

1d. Who is applying for the permit? \*

☒ Owner  
(Check all that apply)

☐ Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? \*

☒ Yes ☐ No

### 2. Owner Information

2a. Name(s) on recorded deed: \*

Town of St Pauls

2b. Deed book and page no.:

N/A - Utility Easement

2c. Contact Person:

(for Corporations)

Elbert Gibson - Mayor

2d. Address \*

Street Address

210 W. Blue Street

Address Line 2

City

St. Pauls

Postal / Zip Code

28384

State / Province / Region

North Carolina

Country

United States

2e. Telephone Number: \*

(xxx)xxx-xxxx

(910)865-5165

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

debra@stpaulsnc.gov

### 4. Agent/Consultant (if applicable)

4a. Name: \*

Jon Swaim

4b. Business Name:

(if applicable)

McGill Associates, P.A.

#### 4c. Address \*

Street Address

1240 19th Street Lane NW

Address Line 2

City

Hickory

Postal / Zip Code

28601

State / Province / Region

North Carolina

Country

United States

#### 4d. Telephone Number: \*

(828)328-2024

(xxx)xxx-xxxx

#### 4e. Fax Number:

(xxx)xxx-xxxx

#### 4f. Email Address: \*

jon.swaim@mcgillassociates.com

## C. Project Information and Prior Project History

### 1. Project Information

#### 1a. Name of project: \*

Elizabeth-Johnson Street Storm Drainage Improvements

#### 1b. Subdivision name:

(if appropriate)

N/A

#### 1c. Nearest municipality / town: \*

St.Pauls

### 2. Project Identification

#### 2a. Property Identification Number:

(tax PIN or parcel ID)

N/A - Utility Easement/030890981900

#### 2b. Property size:

(in acres)

4.03

#### 2c. Project Address

Street Address

No Assigned Address (Project Coordinates: 34.7989°, -78.9681°)

Address Line 2

City

St. Pauls

Postal / Zip Code

28384

State / Province / Region

North Carolina

Country

United States

#### 2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

#### Latitude: \*

34.7989

ex: 34.208504

#### Longitude: \*

-78.9681

-77.796371

### 3. Surface Waters

#### 3a. Name of the nearest body of water to proposed project: \*

Big Marsh Swamp

#### 3b. Water Resources Classification of nearest receiving water: \*

C;Sw

[Surface Water Lookup](#)

#### 3c. What river basin(s) is your project located in? \*

Lumber

#### 3d. Please provide the 12-digit HUC in which the project is located. \*

030402030604

[River Basin Lookup](#)

### 4. Project Description and History



**4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: \***

The proposed improvements consist of the design and construction of a new storm drainage system including the installation of approximately 1,800 linear feet of 48-inch reinforced concrete pipe with inlet boxes and related appurtenances from the flood-prone area to an outlet near Big Marsh Swamp. The new pipes would be installed primarily within the Town's right-of-way, easements, St Paul WWTP access road, and properties of South Johnson Street, East Clark Street, and East Ross Street to outfall in the wetland within the Town property (Parcel ID 030890981900). Adjoining areas consist of residential properties, St. Pauls WWTP, and undeveloped land.

**4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? \***

☐ Yes ☒ No ☐ Unknown

**4f. List the total estimated acreage of all existing wetlands on the property:**

3.123

**4g. List the total estimated linear feet of all existing streams on the property:**

(intermittent and perennial)

N/A

**4h. Explain the purpose of the proposed project: \***

The proposed activity is a Flood and Drainage Improvements project under the Community Recovery Program to reduce flooding and the resulting property damage in the Town of St. Pauls.

**4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: \***

Majority of new pipes to be installed primarily within the Town's right-of-way, easements, and properties of South Johnson Street, East Clark Street, and East Ross Street within existing road shoulders and upland areas. See plan sheets C-10 through C-14.

Project work at the Town of St. Pauls WWTP Property under a Nationwide Permit #14:

Replacement of existing 24" RCP with two 24" RCP to allow for additional flow during storm events under the gravel access road to the St. Pauls WWTP. The two 24" RCP will be installed as close as possible to the existing 24" RCP. The culverts outlets will be armored with 18" Class B Riprap Apron to prevent erosion. See Appendix 2 - Plans Set - C-16. The proposed permanent impacts (Impact W4) are approximately 0.0027 Acres resulting from the Riprap Apron. All temporary impacts (Impact W3 - 0.0127 Acres) for the installation of the two 24" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

Project work at the Town owned 20' Utility Easement under a Nationwide Permit #18:

The proposed project calls for two 36" RCP approximately 244 LF in length to be installed within the 20' Utility Easement as shown on Appendix 2 - Plans Set - C-15. The culvert outlets will be armored with 18" Class B Riprap Apron. The proposed permanent impacts (Impact W2) are approximately 0.0686 Acres resulting from the 20' Utility Row that will be cleared and maintained permanently and the Riprap Apron. All temporary impacts (Impact W1 - 0.0436 Acres) for the installation of the two 36" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization.

In order to ensure that stormwater is adequately drained from the surrounding area which is prone to flooding, the two proposed 36" RCP must extend into Wetland A. Alternatives were explored to avoid wetland impacts, but adequate fall was not achievable without the proposed wetland impacts. The Class B Riprap Apron was designed to prevent washout at the culvert outlet. Project was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. No surface water was noted within the project area during site visits. Groundwater was estimated at 6-inches below natural grade. Estimated fill below ordinary high water totals 597.6 cubic feet or 22.1 cubic yards.

No indirect impacts are anticipated for the proposed project.

It is anticipated typical road construction equipment will be used for the project which might include excavators, bulldozers, frontend loaders, skid steers, and dump trucks.

## 5. Jurisdictional Determinations

**5a. Have the wetlands or streams been delineated on the property or proposed impact areas? \***

☒ Yes ☐ No ☐ Unknown

**Comments:**

See Appendix 5 - Preliminary Jurisdictional Determination

**5b. If the Corps made a jurisdictional determination, what type of determination was made? \***

☐ Preliminary ☐ Approved ☒ Not Verified ☐ Unknown ☐ N/A

**Corps AID Number:**

Example: SAW-2017-99999

N/A

**5c. If 5a is yes, who delineated the jurisdictional areas?**

Name (if known): Jonathan Herman/Jon Swaim

Agency/Consultant Company: McGill Associates, P.A.

Other: 10/13/2021 & 2/7/2023

## 6. Future Project Plans

**6a. Is this a phased project? \***

☐ Yes ☒ No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

N/A

## D. Proposed Impacts Inventory

### 1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

- ☒ Wetlands
- ☐ Streams-tributaries
- ☐ Buffers
- ☐ Open Waters
- ☐ Pond Construction

### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site # <sup>*</sup> (?)	2a1 Reason <sup>*</sup> (?)	2b. Impact type <sup>*</sup> (?)	2c. Type of W. <sup>*</sup>	2d. W. name <sup>*</sup>	2e. Forested <sup>*</sup>	2f. Type of Jurisdiction <sup>*</sup> (?)	2g. Impact area <sup>*</sup>
W1	Construction Access	T	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.044 (acres)
W2	Culvert/ Riprap Apron/ 20' Maintained Utility ROW	P	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.069 (acres)
W3	Construction Access	T	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.013 (acres)
W4	Rip Rap Apron	P	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.003 (acres)

2g. Total Temporary Wetland Impact

0.057

2g. Total Permanent Wetland Impact

0.072

2g. Total Wetland Impact

0.129

2i. Comments:

See Appendix 1 - Impacts Map for approximate impacts.

## E. Impact Justification and Mitigation

### 1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: <sup>\*</sup>

Project designed to minimize wetland impacts as much as practical. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: <sup>\*</sup>

Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

- ☐ Yes
- ☒ No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The project does not exceed thresholds requiring compensatory mitigation for Nationwide Permit 14/18.

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

## F. Stormwater Management and Diffuse Flow Plan (required by DWR)

\*\*\* Recent changes to the stormwater rules have required updates to this section .\*\*\*

### 1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

☐ Yes ☒ No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules.

## 2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? \*

☐ Yes ☒ No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)? \*

☒ Yes ☐ No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

Comments:

## G. Supplementary Information



### 1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? \*

☒ Yes ☐ No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? \*

☒ Yes ☐ No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) \*

☐ Yes ☒ No

Comments: \*

Project is currently under environmental review as a Flood and Drainage Improvements project under the Community Recovery Program.

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? \*

☐ Yes ☒ No

### 3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? \*

☐ Yes ☒ No

3b. If you answered "no," provide a short narrative description.

No additional development anticipated as a result of the proposed work.

### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? \*

☐ Yes ☒ No ☐ N/A

### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? \*

☐ Yes ☒ No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \*

☒ Yes ☐ No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? \*

☐ Yes ☒ No ☐ Unknown

5e. Is this a DOT project located within Division's 1-8? \*

☐ Yes ☒ No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.?<sup>\*</sup>

☒ Yes ☐ No

5g. Does this project involve bridge maintenance or removal?<sup>\*</sup>

☐ Yes ☒ No

Link to the NLEB SLOPES document: [http://saw-reg.usace.army.mil/NLEB/1-30-17-signed\\_NLEB-SLOPES&apps.pdf](http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf)

5h. Does this project involve the construction/installation of a wind turbine(s)?<sup>\*</sup>

☐ Yes ☒ No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?<sup>\*</sup>

☐ Yes ☒ No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?<sup>\*</sup>

USFWS Information for Planning and Consultation tool (see Appendix 4)

On February 7, 2023 environmental specialists from McGill Associates, P.A. conducted a Threatened and Endangered Species survey on the Limits of Disturbance (LOD). The survey was concentrated on the Red-cockaded Woodpecker (RCW) and Michaux's Sumac during the site survey. No species occurrences or potential habitat were found during the survey for RCW and Michaux's Sumac. No mature pine species generally more than 80 years old found in the study area. All remaining Threatened and Endangered Species found on the USFWS IPAC Report were surveyed for and no species occurrences or potential habitat were found within the LOD.

## 6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat?<sup>\*</sup>

☐ Yes ☒ No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat?<sup>\*</sup>

NOAA Essential Fish Habitat Mapper

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpoweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?<sup>\*</sup>

☐ Yes ☒ No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources?<sup>\*</sup>

NC Historic Preservation Office HPOWEB

See Appendix 3 - NCHPO HPOWEB Map

## 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain?<sup>\*</sup>

☒ Yes ☐ No

8b. If yes, explain how project meets FEMA requirements:

All appropriate floodplain development permits will be acquired prior to construction.

8c. What source(s) did you use to make the floodplain determination?<sup>\*</sup>

<https://fris.nc.gov>

## Miscellaneous

### Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

[Click the upload button or drag and drop files here to attach document](#)

Final Appendices.pdf

36.11MB

File must be PDF or KMZ

## Signature

<sup>\*</sup>

☒ By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;



- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

**Full Name: \***

Jon Swaim

**Signature \***

A handwritten signature in cursive script that reads "Jon Swaim". The signature is written in black ink on a light gray rectangular background.

**Date**

2/13/2023

## **APPENDICES**

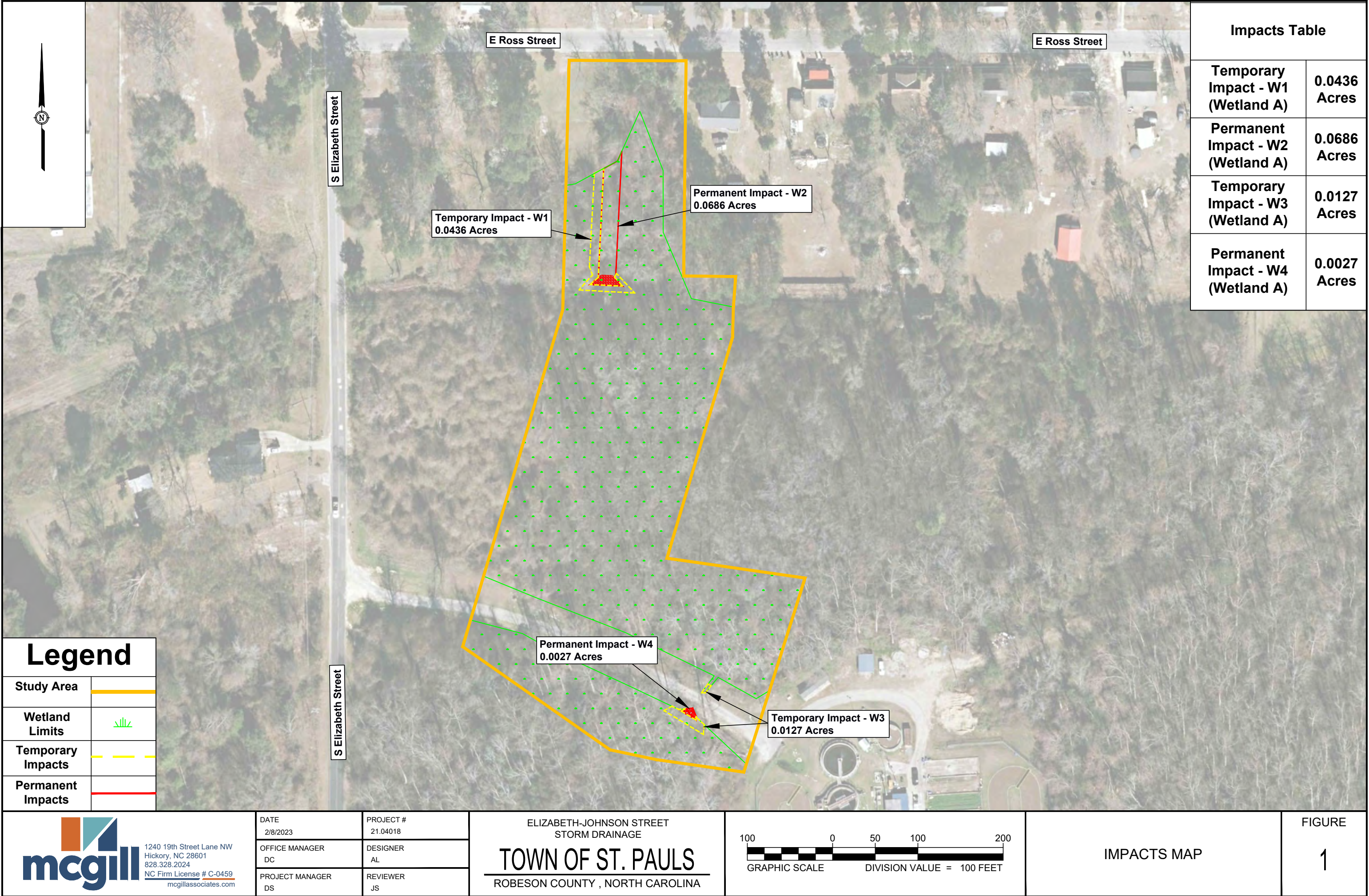
- 1. Impacts Map**
- 2. Plans Set**
- 3. NCHPO HPOWEB Map**
- 4. IPAC Consultation Package**
- 5. Preliminary Jurisdictional Determination (PJD)**

## **APPENDIX 1**

### **Impacts Map**



P:\2021\21.04018-STPAULS-NC-ELIZABETH-STREET STORM DRAINAGE\DESIGN\PERMITS\404-40\1PCN\IMPACTS MAP\_2\_7\_2023.DWG PLOT DATE 2/8/2023 10:02 AM ALEX LOWDERMILK



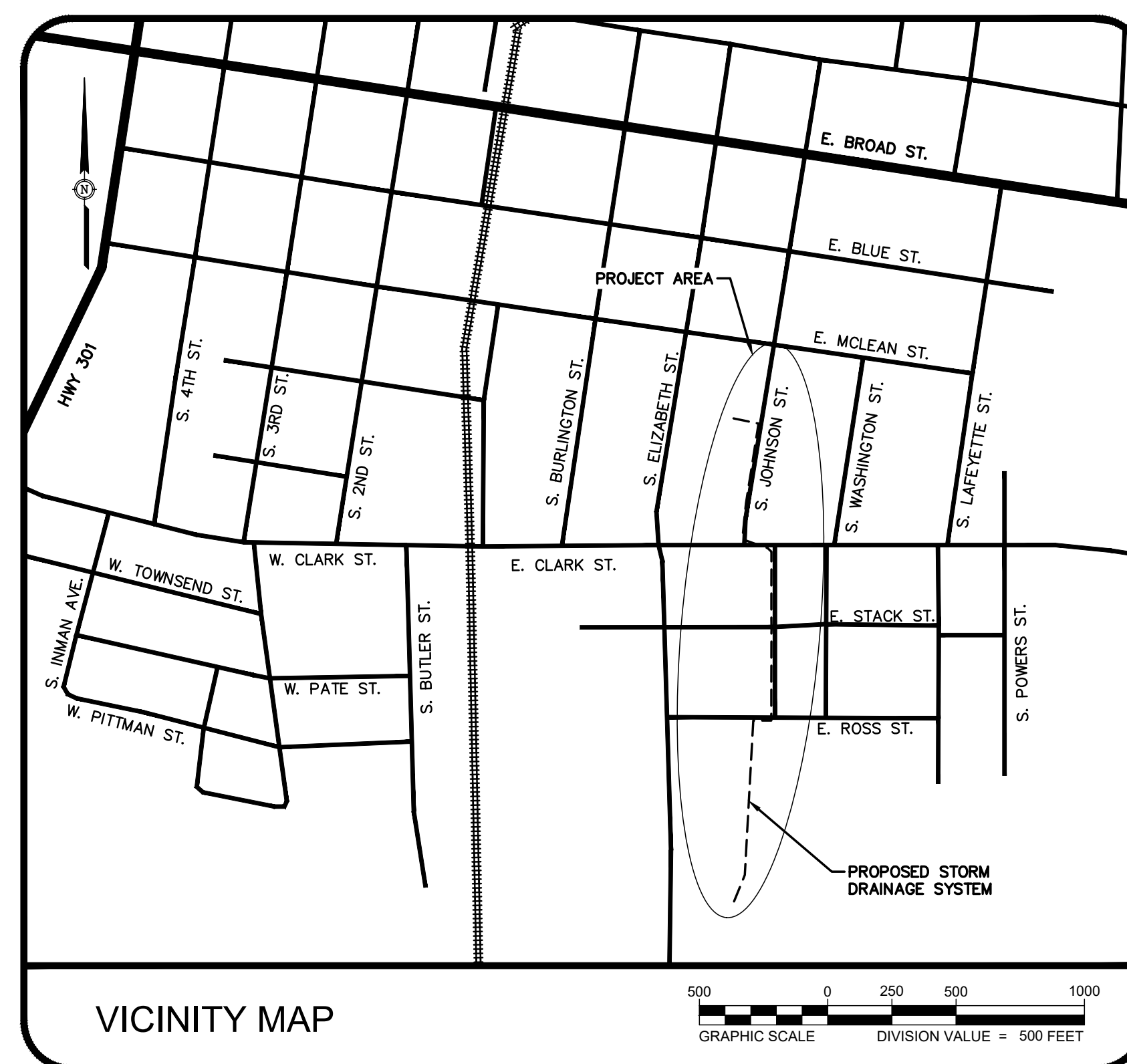


## **APPENDIX 2**

### **Plans Set**

# ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS

## ROBESON COUNTY, NORTH CAROLINA



### SCHEDULE OF DRAWINGS

- G-01 Cover
- G-02 Notes & Legend
- G-03 NCDEQ General Permit Notes
- G-04 NCDEQ General Permit Notes
- CE-01 Existing Conditions 1 of 4
- CE-02 Existing Conditions 2 of 4
- CE-03 Existing Conditions 3 of 4
- CE-04 Existing Conditions 4 of 4
- C-10 Proposed Plan and Profile S. Johnson St. Sta. 0+00-5+50
- C-11 Proposed Plan and Profile E. Clark St. Sta. 6+00-7+50
- C-12 Proposed Plan and Profile S. Johnson St. Sta. 8+00-12+00
- C-13 Proposed Plan and Profile S. Johnson St. Sta. 12+00-15+00
- C-14 Proposed Plan and Profile E. Ross St. Sta. 15+00-16+50
- C-15 Proposed Plan and Profile Sta. 17+00-22+00
- C-16 Proposed Plan and Profile Sta. 22+00-25+50
- C-17 Overview of Wetland Impacts Sta. 17+00-25+50
- C-20 Cross Sections Sta. 17+50-20+00
- C-30 Erosion Control Details 1 of 2
- C-31 Erosion Control Detail 2 of 2
- C-32 Miscellaneous Details 1 of 2
- C-33 Miscellaneous Details 2 of 2



NORTH CAROLINA LAND QUALITY SECTION EROSION CONTROL NOTES

GENERAL: ALL EROSION CONTROL MEASURES ARE TO BE PERFORMED IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCEQ), DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES (DEMLR), LAND QUALITY SECTION. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE COMPLIED WITH FOR ALL WORK.

1. INSTALL ALL EROSION CONTROL MEASURES AS REQUIRED BY THE NCEQ.
2. PROCEED WITH GRADING, CLEARING, AND GRUBBING. NO OFF SITE DISPOSAL OF MATERIAL IS ALLOWED UNLESS THE DISPOSAL SITE HAS AN APPROVED EROSION CONTROL PLAN.
3. SEED AND MULCH DENUDE AREA WITHIN TIME FRAME SPECIFIED (SEE TABLE). SEED AND SOIL AMENDMENTS SHALL BE PLACED ON A PREPARED SEEDBED AT THE FOLLOWING RATES PER ACRE. STRAW MULCH SHALL BE TACKED WITH TACKING AGENT APPLIED BY HYDROSEEDER.

OR  
CREEPING RED FESCUE 100 LBS (NATURAL AREAS AND STREAMBANKS)  
STRAW MULCH 60–80 BALES  
FOR SUMMER SEEDING ADD TO THE ABOVE:  
GERMAN MILLET (SETARIA ITALICA) 40 LBS  
SMALL–STEMMED SUDAN GRASS (SORGHUM BICOLOR) 50 LBS

FOR WINTER SEEDING ADD TO THE ABOVE:  
RYE GRAIN (SECALE CEREALE) 120 LBS

IF HYDROSEEDING, WOOD CELLULOSE MAY BE USED IN ADDITION TO STRAW MULCH AT THE RATE OF 1,000 LBS PER ACRE.

ALL SEEDING SHALL BE MAINTAINED, WATERED ETC., UNTIL A PERMANENT VEGETATIVE GROUND COVER IS ESTABLISHED OVER ALL DISTURBED AREAS. FOR ALL SLOPES 2:1 OR STEEPER ADD TO THE ABOVE:  
PURGE LIVE SEED SWITCHGRASS 4 LBS  
BROWNTOP MILLET OR PEARL MILLET (PENNISETUM GLAUCUM) 8 LBS  
GRAIN SORGHUM (SORGHUM BICOLOR (L.) MOENCH SSP. BICOLOR) 2 LBS  
ALL SLOPES 2:1 OR STEEPER SHALL BE COVERED BY EROSION CONTROL MATTING.

NATIVE PLANT SEEDING MIX FOR WETLAND STREAM OR RIVERBANK STABILIZATION

1. NATIVE SEED MIX SHALL BE APPLIED AT A RATE OF 20 LBS./AC. AND INCLUDE THE FOLLOWING SPECIES:  
25% – BIG BLUESTEM (ANDROPOGON GERARDII)  
25% – INDIAN GRASS (SORGHASTRUM NUTANS)  
25% – LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)  
25% – SWITCHGRASS (PANICUM VIRGATUM)
2. ADDITIONALLY A TEMPORARY COVER/NURSE CROP MIX SHALL BE APPLIED AT A RATE OF 25 LBS./ACRE AS FOLLOWS:  
AUGUST THRU MAY – GREENRYE (SECALE CEREALE)  
MAY 1 THRU AUGUST – MILLET (PENNISETUM GLAUCUM)
3. ANY SUBSTITUTIONS OR VARIATIONS FROM SPECIFICATIONS ABOVE SHALL BE APPROVED BY THE PROJECT ENGINEER.
4. NO FERTILIZER SHALL BE USED WITHIN 10’ OF TOP OF STREAM OR RIVER BANK.
5. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
6. REQUEST FINAL APPROVAL BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES, LAND QUALITY SECTION.
7. REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.

ABBREVIATIONS

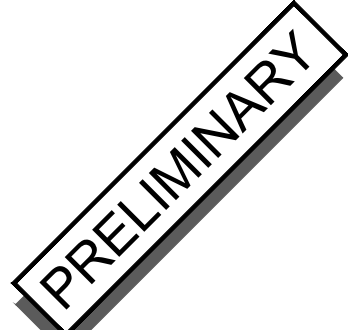
●	AT	MAX.	MAXIMUM
A	AREA	MECH.	MECHANICAL
A.B.C.	AGGREGATE BASE COURSE	MFR.	MANUFACTURER
AC	ACRE	MH	MANHOLE
A.D.	ALGEBRAIC DIFFERENCE	MIN.	MINIMUM
A.F.F.	ABOVE FINISHED FLOOR	MI	MILE
AL	AREA LIGHT	MJ	MECHANICAL JOINT
APPROX.	APPROXIMATE	# / NO.	NUMBER
ARCH.	ARCHITECTURAL	N	NORTH
ASSY.	ASSEMBLY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
B–B	BACK TO BACK		
BEAR.	BEARING	N/F	NOW OR FORMERLY
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
BOC	BACK OF CURB	NTS	NOT TO SCALE
BOT.	BOTTOM	O.C.	ON CENTER(S)
¢	CENTERLINE	O.D.	OUTSIDE DIAMETER
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	OHE	OVERHEAD ELECTRIC
CB	CATCH BASIN	OPER	OPERATION
C–C	CENTER TO CENTER	OPNG	OPENING
CF	CUBIC FEET	PB	PLAT BOOK
CFM	CUBIC FEET PER MINUTE	PC	POINT OF CURVATURE
C&G	CURB AND GUTTER	PERM.	PERMANENT
CH	CHORD	PG	PAGE
CI	CURB INLET	PI	POINT OF INTERSECTION
CL	CLASS	PI TO	POINT OF INTERSECTION – TURN OUT
CNST	CONSTRUCTION	PL	PROPERTY LINE
C.O.	CLEAN–OUT	PP	POWER POLE
CO.	COMPANY	PROP.	PROPOSED
COL	COLUMN	PS	POINT OF SWITCH
CONC.	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION	PT	POINT OF TANGENCY
CPP	CORRUGATED PLASTIC PIPE	PT	POINT
CSP	CORRUGATED STEEL PIPE	PVC	POLYVINYL CHLORIDE
CULV.	CULVERT	P.V.C.	POINT OF VERTICAL CURVATURE
* / DEG	DEGREE(S)	P.V.I.	POINT OF VERTICAL INTERSECTION
△	DELTA ANGLE	P.V.M.T	PAVEMENT
Ø / DIA.	DIAMETER	P.V.T.	POINT OF VERTICAL TANGENCY
DB	DEPTH / DEEP	R	RADIUS
Dc	DEED BOOK	ROP	REINFORCED CONCRETE PIPE
DET	DEGREE OF CURVATURE	RD	ROAD
DI	DETAIL	RED.	REDUCER
DIP	DROP INLET	REQ'D.	REQUIRED
DN	DUCTILE IRON PIPE	RJ	RESTRAINED JOINT
D/W	DOWN	RR	RAILROAD
DWG(S).	DRIVEWAY	RT	RIGHT
E	DRAWING(S)	ROW	RIGHT OF WAY
EA.	EAST	SOUTH	SOUTH
EL/ELEV	EACH	SAN	SANITARY
ELEC.	ELEVATION	SCH	SCHEDULE
EOP	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
ESMT	EDGE OF PAVEMENT	SEC	SECONDS
EX/EXIST	EASEMENT	SECT.	SECTION
F.D.	EXISTING	SED.	SEDIMENT
FDC	FLOOR DRAIN	SEW	SEWER
FES	FIRE DEPARTMENT CONNECTION(S)	SF	SQUARE FEET
FFE	FLARED END SECTION	SHT. / SH.	SHEET
FH	FINISHED FLOOR ELEVATION	SP	SERVICE POLE
FHA	FIRE HYDRANT	SPEC.	SPECIFICATION
FI	FIRE HYDRANT ASSEMBLY	SQ.	SQUARE
FLEX.	FLOW INDICATOR	SR	STATE ROAD
FL	FLEXIBLE	SS	STAINLESS STEEL
FM	FLANGE	SSCO	SANITARY SEWER CLEANOUT
FO	FORCE MAIN	SSMH	SANITARY SEWER MANHOLE
FOP	FIBER OPTIC CABLE	STA.	STATION
FOSC	FIBER OPTIC POST	STD.	STANDARD
FOC	FIBER OPTIC SIGNAL CABLE	STL	STEEL
FT	FACE OF CURB	S/W	SIDEWALK
FUT	FEET	T/C	TOP OF CURB
GA	FUTURE	TEL.	TELEPHONE
GAL.	GAUGE	TEMP.	TEMPORARY
GALV.	GALLON	TK	THICK
GEN	GALVANIZED	T/G	TOP OF GRATING
G/L	GENERATOR	T.O.	TOP OF...
GV	GUTTER LINE	TP	TELEPHONE PEDESTAL
GW	GATE VALVE	T/S	TOP OF SLAB
HD	GUY WIRE/ANCHOR	TSB	TRAFFIC SIGNAL BOX
HEX.	HEAVY DUTY	TST	TEMPORARY SEDIMENT TRAP
HOR(IZ).	HEXAGONAL	T/W	TOP OF WALL
HP	HORIZONTAL	TYP.	TYPICAL
HWL	HIGH POINT	U/G	UNDER GROUND
HWY.	HIGH WATER LEVEL	UGE	UNDER GROUND ELECTRIC
ICV	HIGHWAY	UP	UTILITY POLE
ID.	IRRIGATION CONTROL VALVE	UV	ULTRAVIOLET
IN	INSIDE DIAMETER	V	VALVE
INV.	INCH(ES)	VC	VERTICAL CURVE
JB	INVERT	VERT.	VERTICAL
K	JUNCTION BOX	W	WIDTH
L	CURVE COEFFICIENT	W	WEST
LB	LENGTH	W/	WITH
LD	POUND(S)	WDE	WIDE
LF	LIGHT DUTY	WL	WATER LEVEL
LG	LINEAR FEET	W/L	WATER LINE
LP	LONG	WM	WATER METER
LT	LIGHT POLE	WSE	WATER SURFACE ELEVATION
LWL	LEFT	WV	WATER VALVE
	LOW WATER LEVEL	WWF	WELDED WIRE FABRIC
		YD	YARD
		YI	YARD INLET
		YH	YARD HYDRANT

EXISTING CONDITIONS LEGEND

	TELEPHONE PEDESTAL		CALCULATED POINT
	ELECTRIC PEDESTAL		1/2" REBAR SET WITH CAP
	CABLE TV PEDESTAL		CONCRETE MONUMENT
	SIGN		RIGHT–OF–WAY MONUMENT
	UNDERGROUND CABLE TV SIGN		D.O.T. CONTROL POINT
	UNDERGROUND FIBER OPTIC CABLE SIGN		REBAR FOUND
	UNDERGROUND TELEPHONE CABLE SIGN		RAILROAD SPIKE
	UNDERGROUND GAS LINE SIGN		PK NAIL FOUND / SET
	UNDERGROUND ELECTRIC LINE SIGN		SPINDLE FOUND / SET
	LIGHT POLE		HUB & TACK SET
	UTILITY POLE		CONTROL POINT NAIL SET / FOUND
	GUY WIRE ANCHOR		CONTROL POINT/NAIL SET GPS
	TRAFFIC SIGNAL POLE		CONTROL POINT TEMPORARY MARK
	RAILROAD CROSSING SIGNAL		NATIONAL GEODETIC SURVEY METAL ROD
	MANHOLE		NATIONAL GEODETIC SURVEY CONCRETE MONUMENT
	SANITARY SEWER MANHOLE		TEMPORARY CONTROL POINT SET
	STORM DRAIN MANHOLE		NETWORK TRIANGULATION POINT
	COMMUNICATION MANHOLE		STAKE FOUND
	ELECTRICAL MANHOLE		INTERSTATE HIGHWAY
	JUNCTION BOX		U.S. HIGHWAY
	SPIGOT/YARD HYDRANT		FINISHED FLOOR ELEVATION
	SEWER CLEAN–OUT		MONITORING WELL
	ELECTRIC SERVICE STUB–OUT		PIEZOMETER
	GAS SERVICE STUB–OUT		LANDFILL GAS MONITORING PROBE
	CATCH BASIN		SURFACE WATER SAMPLING LOCATION
	CURB INLET		LANDFILL GAS VENT
	WATER METER		LANDFILL GAS COLLECTION WELLHEAD
	FIRE HYDRANT		POTABLE WATER WELL
	WATER VALVE		MAILBOX OR PAPER BOX
	BLOW OFF VALVE		POSTAL DROP BOX
	GAS METER		SATELLITE DISH
	GAS VALVE		YARD ORNAMENT
	IRRIGATION CONTROL VALVE		STATUE, BIRD BATHS, ETC.
	POST INDICATOR VALVE		TREES
	ELECTRIC JUNCTION BOX OR OUTLET		SHRUBS / BUSHES
	TRAFFIC SIGNAL BOX		(H) HORIZONTAL GROUND DISTANCE
	GEOTECHNICAL BORING		(G) NC STATE PLANE GRID DISTANCE
			CULVERT
			FENCE
			SILT FENCE
			GUARD RAIL
			APPROXIMATE LOCATION OF EXISTING SEWER LINES
			APPROXIMATE LOCATION OF EXISTING WATER LINES
			APPROXIMATE LOCATION OF EXISTING GAS LINES
			TOP OF SLOPE
			TOE OF SLOPE
			DITCH LINES
			APPROXIMATE LOCATION OF UNDERGROUND CABLE TV LINE
			APPROXIMATE LOCATION OF OVERHEAD CABLE TV LINE
			APPROXIMATE LOCATION OF UNDERGROUND FIBER OPTIC CABLE LINE
			APPROXIMATE LOCATION OF UNDERGROUND ELECTRIC LINE
			APPROXIMATE LOCATION OF OVERHEAD ELECTRIC LINE
			APPROXIMATE LOCATION OF UNDERGROUND TELEPHONE LINES
			APPROXIMATE LOCATION OF OVERHEAD TELEPHONE LINES
			RIGHT–OF–WAY
			TREELINE
			SHRUBLINE
			PROPERTY LINE NOT SURVEYED
			ROCKLINE
			STREAM LINE
			CENTERLINE
			CENTERLINE VARIANT
			SWAMPLINE/WETLANDS
			APPROXIMATE LOCATION OF OVERHEAD UTILITY LINE
	IRON PIN SET		CORRUGATED PLASTIC PIPE
	CONCRETE MASONRY UNIT		DUCTILE IRON PIPE
	RIGHT OF WAY		ELECTRIC & TELEPHONE
	CENTERLINE		FIBER OPTIC CABLE
	CURVE (SEE CURVE TABLE)		GALVANIZED IRON PIPE
	POINT OF BEGINNING		OVERHEAD
	CALCULATED POINT		REINFORCED CONCRETE PIPE
	PLAT BOOK		UNDERGROUND
	DEED BOOK		VITRIFIED CLAY PIPE
	LINE (SEE LINE TABLE)		POLYVINYL CHLORIDE PIPE
	BUILDING		FINISHED FLOOR ELEVATION
	CAST IRON PIPE		PAGE
	CORRUGATED METAL PIPE		REFERENCE
	CONCRETE		DEPARTMENT OF TRANSPORTATION
	PROPOSED		NATIONAL GEODETIC SURVEY
	EXISTING		NORTH CAROLINA STATE PLANE
			METER BOX
			ELEVATION

GENERAL CONSTRUCTION NOTES

1. SURVEY IS REFERENCED TO HORIZ: NAD83, STATE PLANE (FEET) NORTH CAROLINA (FIPS 3200) VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BY MCGILL ASSOCIATES, MARCH 1, 2022.
2. CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES
3. NOT ALL UTILITIES ARE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING UTILITIES AND UTILITY INFORMATION PRESENTED ON THESE DRAWINGS. ANY DISCREPANCIES SHALL BE ADDRESSED TO THE ENGINEER IN WRITING. THE CONTRACTOR IS RESPONSIBLE OF NOTIFYING AND COORDINATING WORK WITH THE AFFECTED UTILITY COMPANIES WHETHER HE PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK. ANY DAMAGE DONE TO EXISTING UTILITIES (SHOWN OR NOT SHOWN ON PLANS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT NC ONE CALL AT 1–800–632–4949 AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION. NON–SUBSCRIBERS SHALL BE CONTACTED DIRECTLY.
4. ALL PUBLIC ROADWAYS SHALL REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ROAD SURFACES CLEAN AND FREE OF CONSTRUCTION SEDIMENT AND DEBRIS AT ALL TIMES.
5. ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH APPLICABLE LOCAL CITY, STATE, AND FEDERAL REGULATIONS AND PERMIT REQUIREMENTS.
6. CONTRACTOR SHALL OBTAIN AND PROVIDE TO THE OWNER TEMPORARY STREET AND DRIVEWAY ACCESS PERMIT FOR CONSTRUCTION ENTRANCES PRIOR TO ANY CONSTRUCTION ACTIVITY.
7. STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III, PER NCDOT STANDARD SPECIFICATIONS SECTION 1032.
8. PRE–CAST CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES (LATEST EDITION) ARTICLES 840–1 THROUGH 840–3. CURB INLET CATCH BASIN SHALL CONFORM TO NCDOT STANDARD DETAILS 840.02 THROUGH 840.04. DROP INLETS SHALL CONFORM TO STANDARD DETAIL 840.14. JUNCTION BOXES SHALL CONFORM TO STANDARD DETAIL 840.31. ALL PRE–CAST DRAINAGE STRUCTURES SHALL CONFORM TO NCDOT STANDARDS DETAIL 840.46.
9. CURB INLET FRAME, GRATE AND HOOD SHALL CONFORM TO NCDOT STANDARD DETAIL 840.03.
10. CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM, MEETING THE REQUIREMENTS OF SECTION 1000, CONSTRUCTED IN ACCORDANCE WITH SECTION 825 UNLESS NOTED OTHERWISE. MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 1040, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834 UNLESS NOTED OTHERWISE.
11. TOPS OF PROPOSED FRAMES AND GRATES SHALL BE FLUSH WITH FINISHED GRADE.
12. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED UPON COMPLETION OF CONSTRUCTION.



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NOT TO SCALE		NOTES & LEGEND			SHEET  G-02
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT				
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH	DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A	

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>• Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>• Hydroseeding</li> <li>• Rolled erosion control products with or without temporary grass seed</li> <li>• Appropriately applied straw or other mulch</li> <li>• Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>• Geotextile fabrics such as permanent soil reinforcement matting</li> <li>• Hydroseeding</li> <li>• Shrubs or other permanent plantings covered with mulch</li> <li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>• Structural methods such as concrete, asphalt or retaining walls</li> <li>• Rolled erosion control products with grass seed</li> </ul>

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

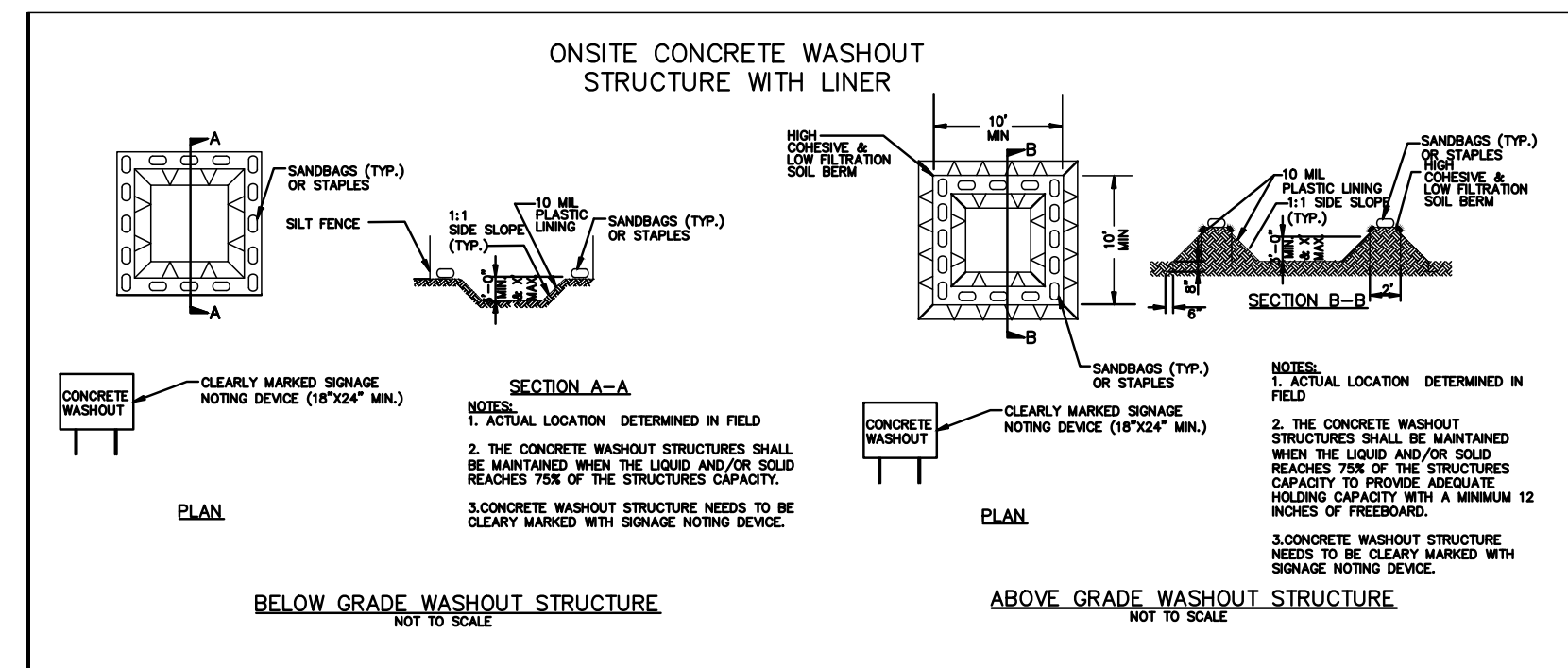
1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washouts from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb and sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



P:\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET DRAINAGE IMPROVEMENTS\NCDEQ GENERAL PERMIT NOTES DWG PLOT DATE: 1/19/2023 12:37 PM KALIA BEESLEY

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
- They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).

- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

- (b) Anticipated bypasses and unanticipated bypasses.

- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

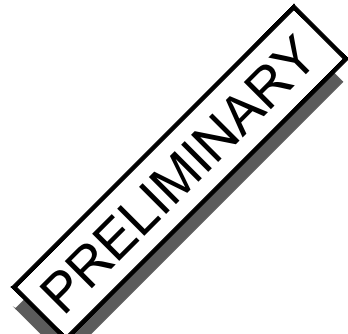
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li><li>If the stream is named on the <a href="#">NC 303(d) list</a> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li></ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li></ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li><b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li></ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li></ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"><li><b>Within 24 hours</b>, an oral or electronic notification.</li><li><b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6).</li><li>Division staff may waive the requirement for a written report on a case-by-case basis.</li></ul>

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NOT TO SCALE		NCDEQ GENERAL PERMIT NOTES		
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT			
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH	DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET

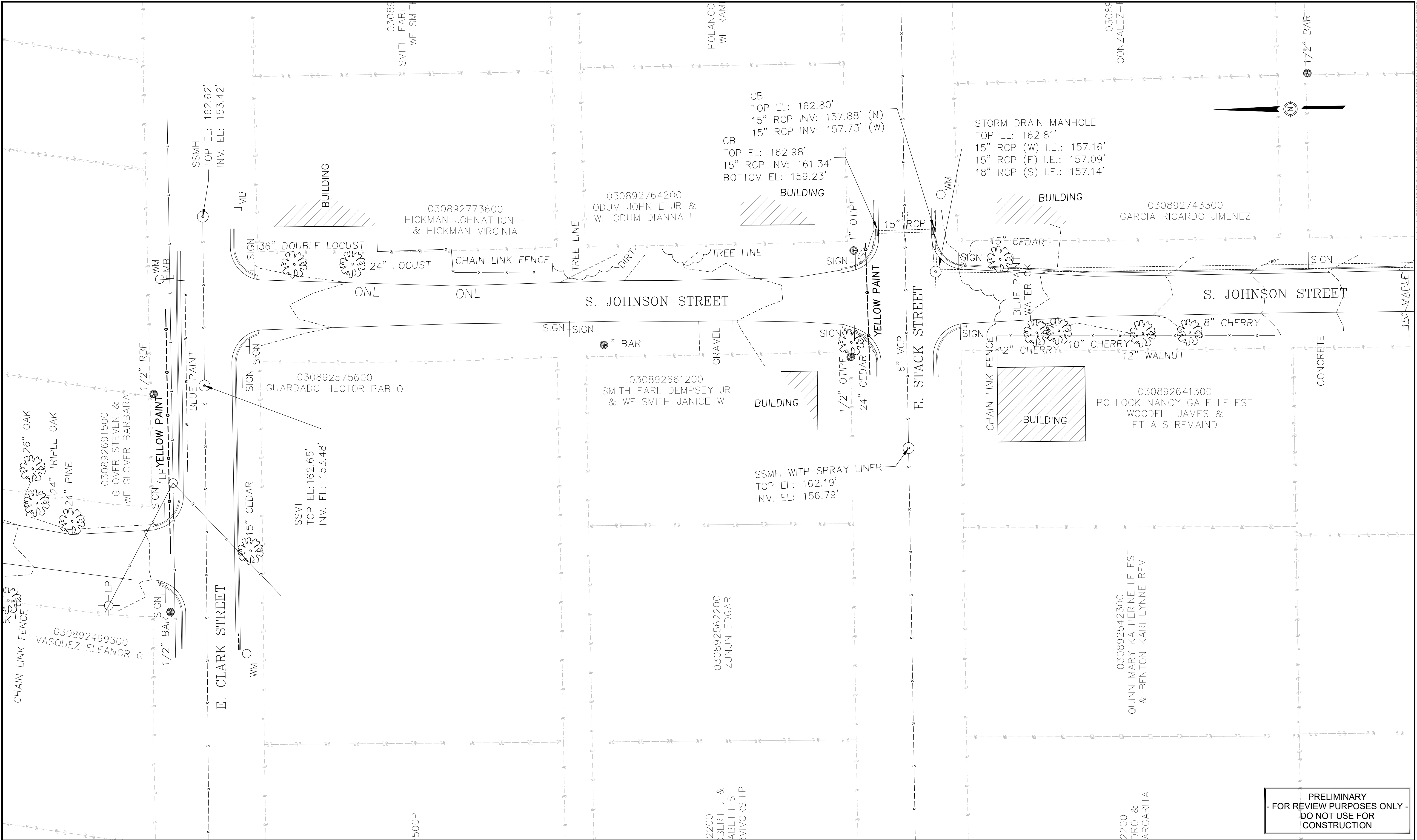
G-04



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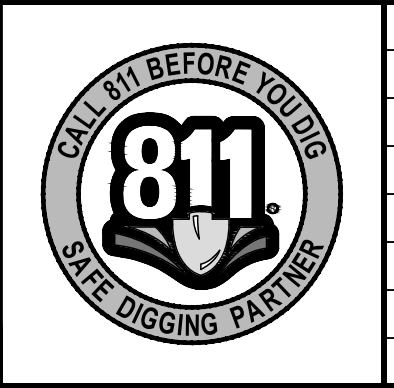
V:\04018-STPAULS-ELIZABETH-JOHNSON STREET STORM DRAINAGE IMPROVEMENTS\SS\01 EXISTING CONDITIONS.DWG PLOT DATE 2/1/2023 10:04 AM KALIA BEESLEY





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PRELIMINARY

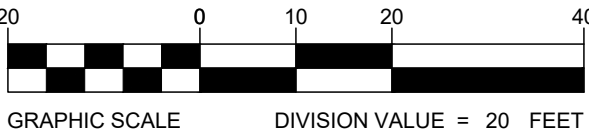


NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS

TOWN OF ST. PAULS

ROBESON COUNTY, NORTH CAROLINA

	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

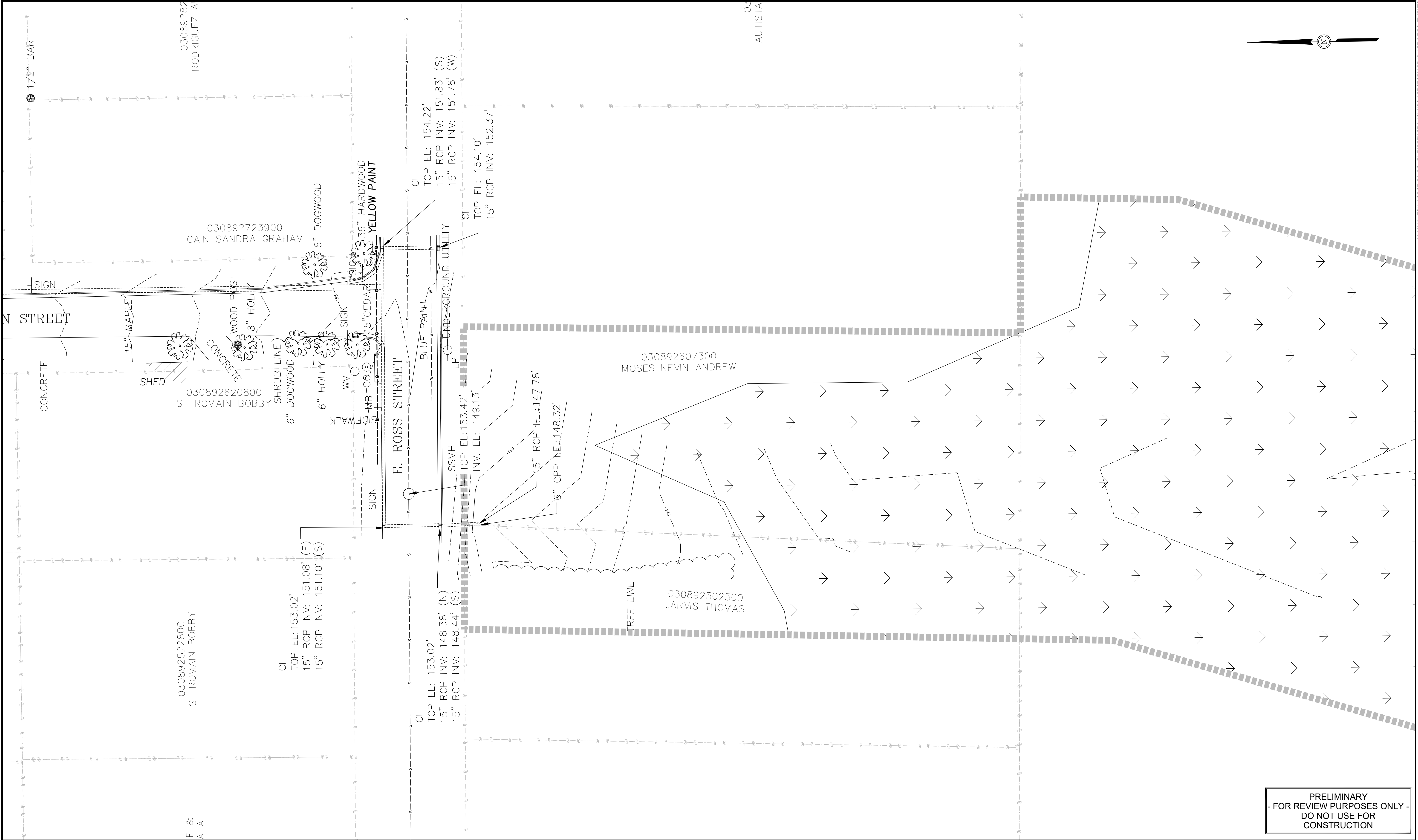
EXISTING CONDITIONS 2 OF 4		
DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A

SHEET  
CE-02


PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
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CONSTRUCTION

21.04018 - TOWN OF ST. PAULS - ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS

\\AD.MCGILLENGINEERS.COM\COMPANYSHARE\MCGILL PROJECTS\2021\2104018-STPAUL-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\SS\CE-01 EXISTING CONDITIONS DWG PLOT DATE 2/8/2023 3:33 PM KAJIA BEESLEY




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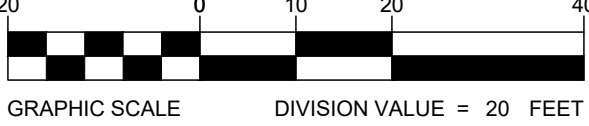
PRELIMINARY



CALL 811 BEFORE YOU DIG  
SAFE DIGGING PARTNER

NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
TOWN OF ST. PAULS  
ROBESON COUNTY, NORTH CAROLINA



GRAPHIC SCALE  
DIVISION VALUE = 20 FEET

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A
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EXISTING CONDITIONS 3 OF 4

SHEET  
CE-03



PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
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CONSTRUCTION

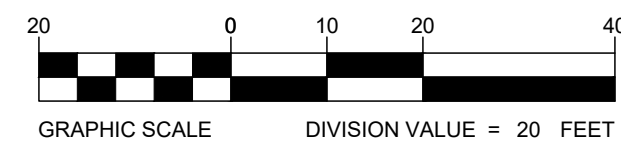


PRELIMINARY



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

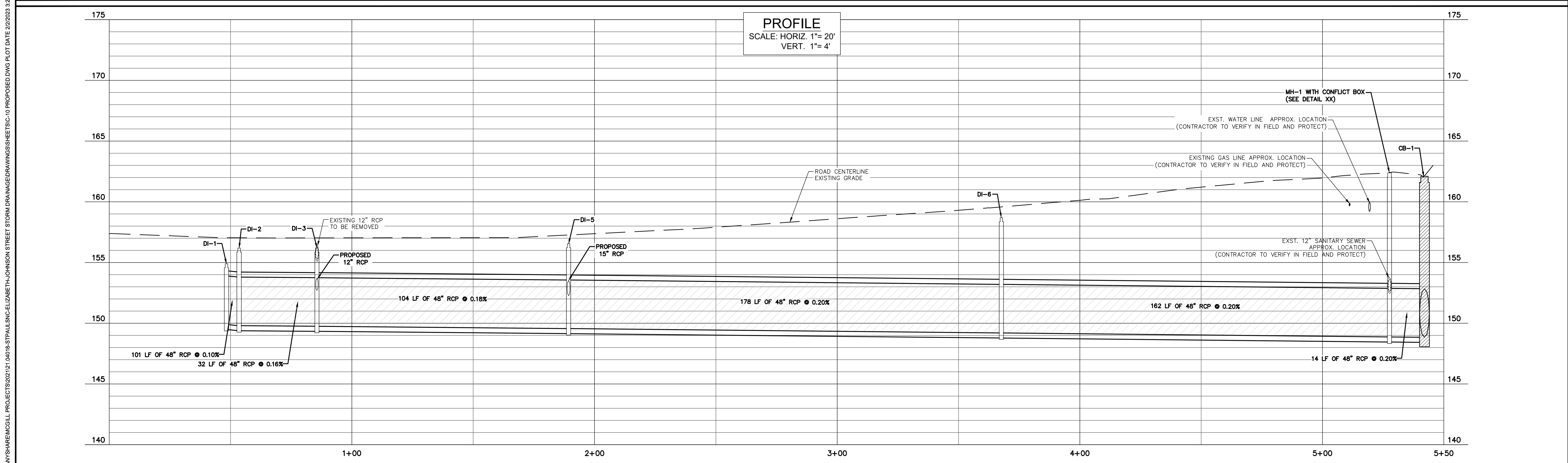
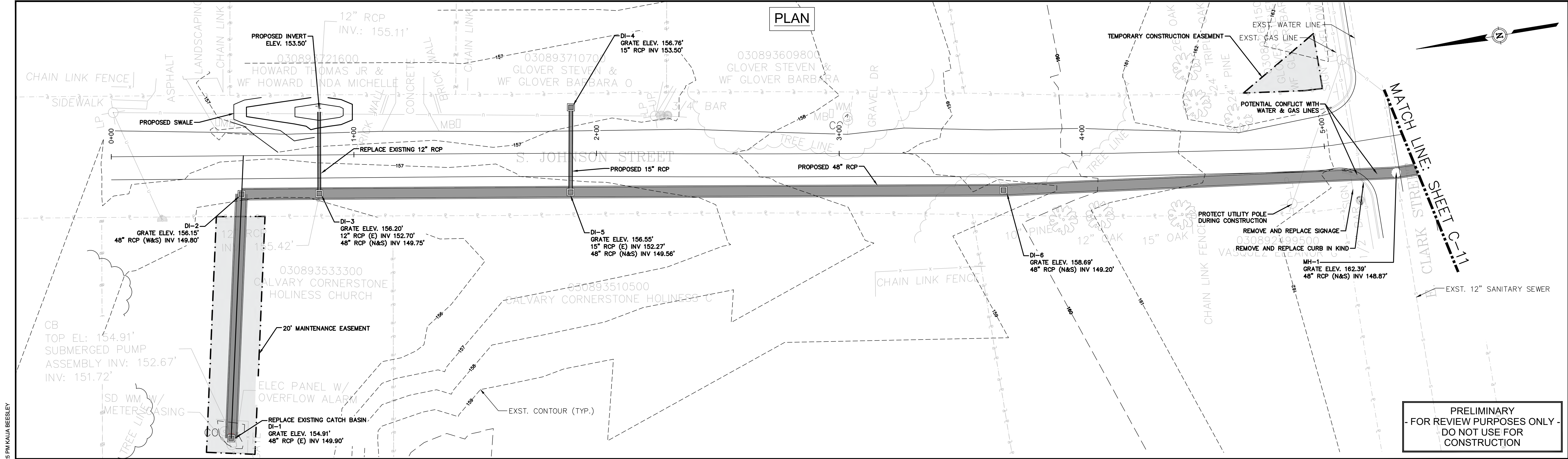
EXISTING CONDITIONS 4 OF 4


DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

CE-04








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**PRELIMINARY**



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SAFE DIGGING PARTNER

NO.	DATE	BY	DESCRIPTION

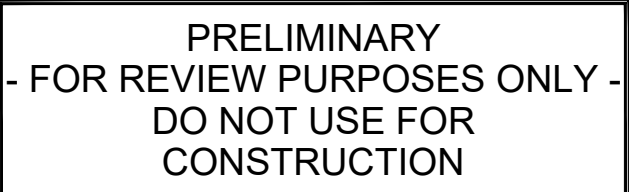
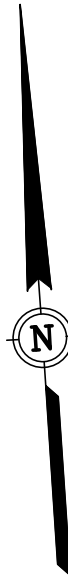
ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE  
0 10 20 40  
DIVISION VALUE = 20 FEET

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

DATE FEBRUARY 2023	PROJECT # 21.04018	FUNDING # N/A
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**C-10**



NO.	DATE	BY	DESCRIPTION

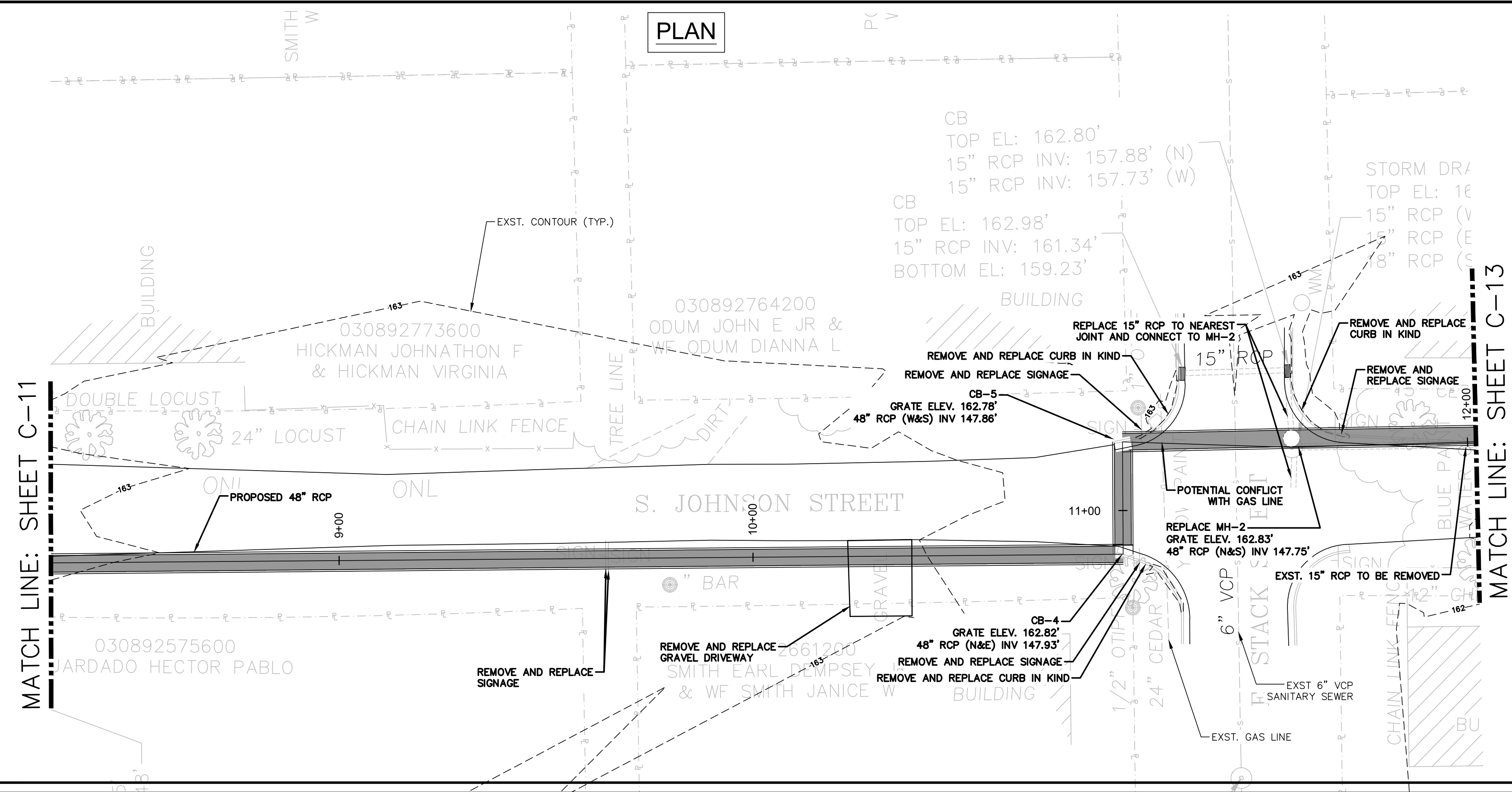
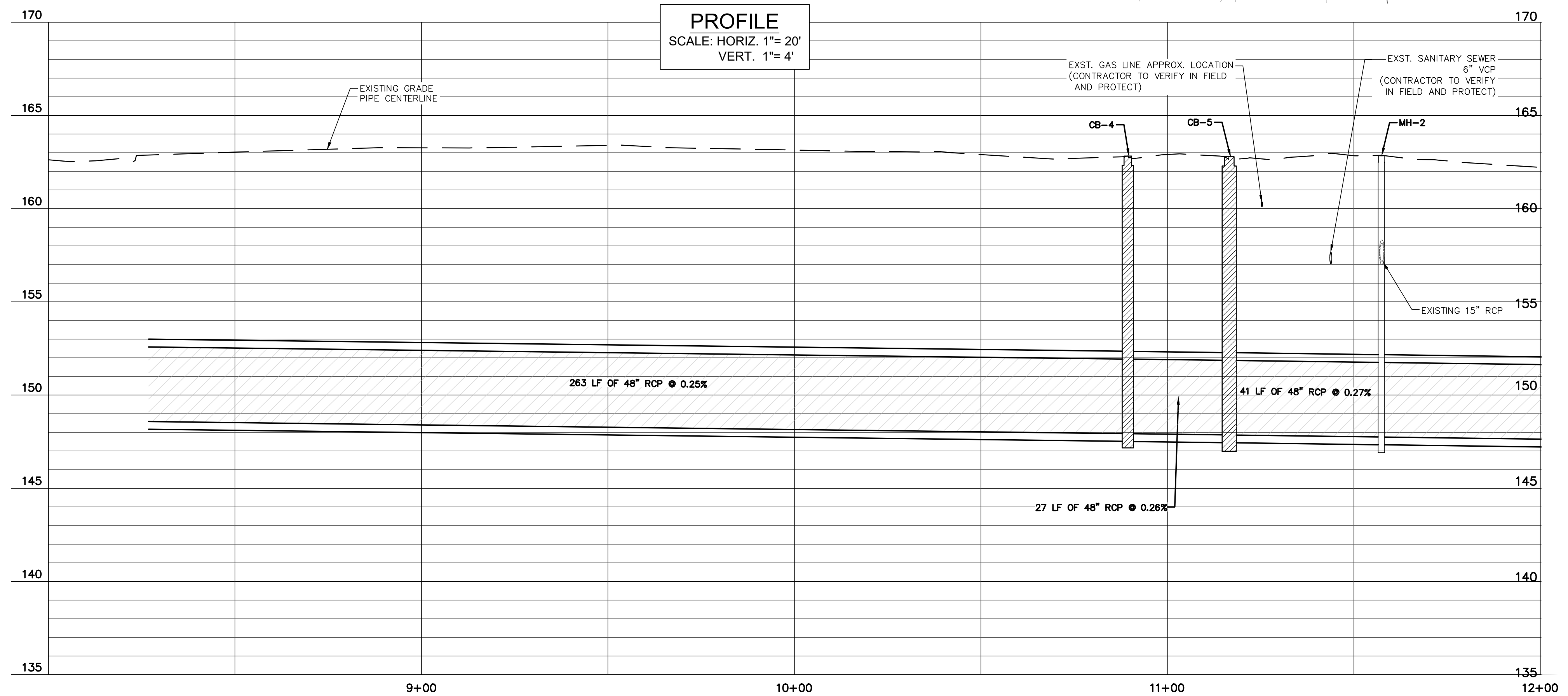
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DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET  
C-11

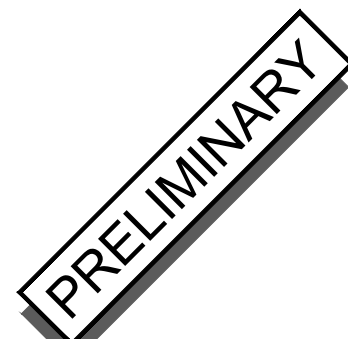
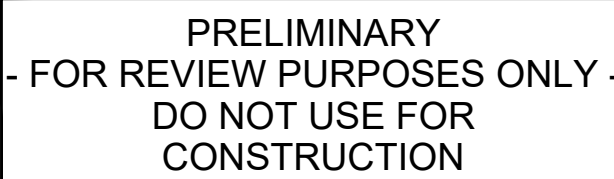




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GRAPHIC SCALE DIVISION VALUE = 20 FEET

OFFICE MANAGER <b>B. ROARK</b>	DESIGNER <b>C. HEATHCOAT</b>
PROJECT MANAGER <b>D. SABEH</b>	REVIEWER <b>D. SABEH</b>

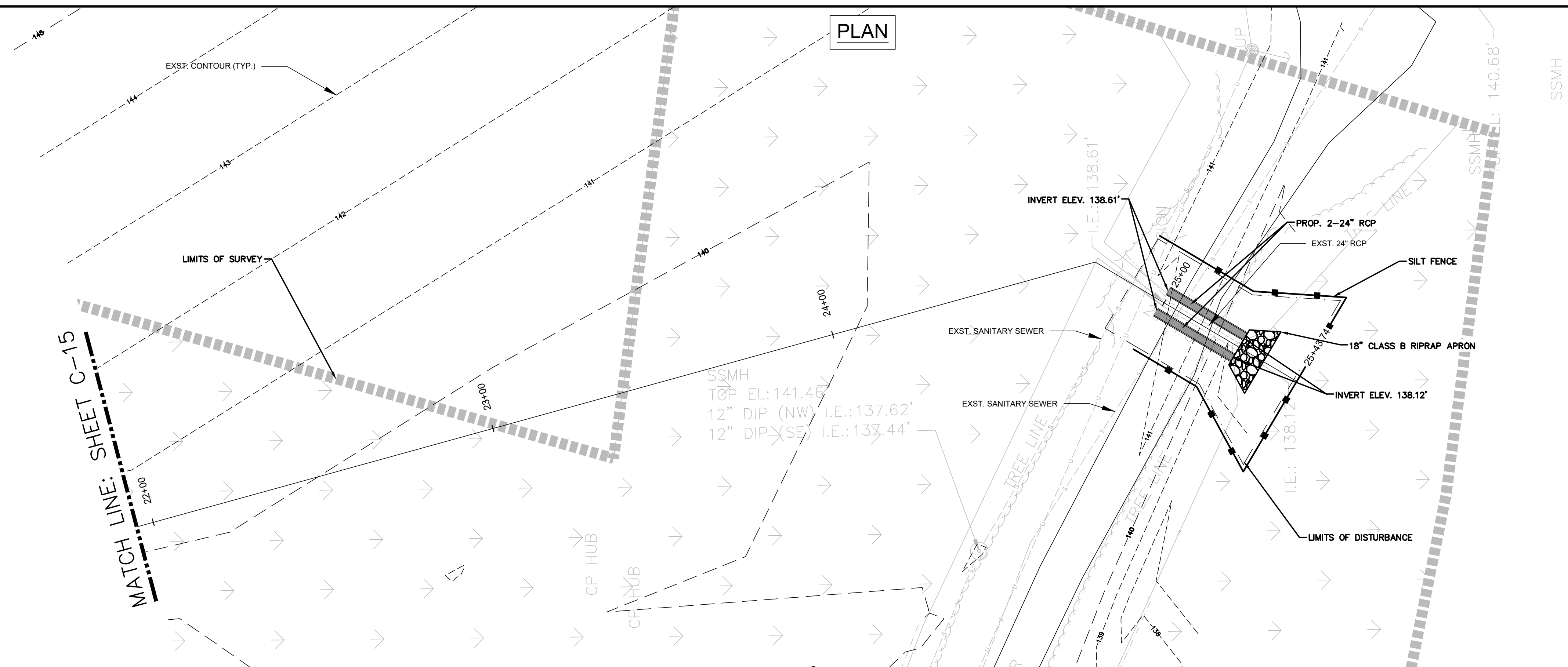
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FEBRUARY 2023	21.04018	N/A

SHEET

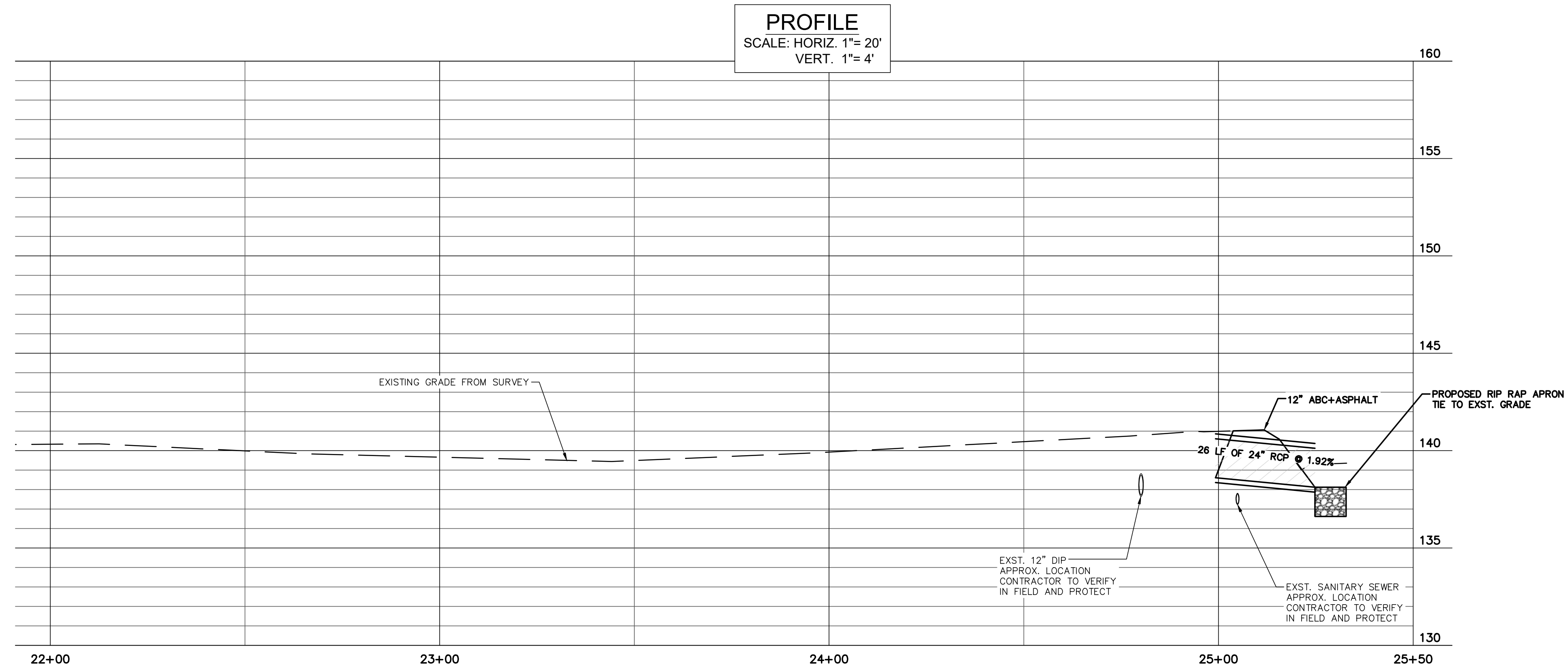
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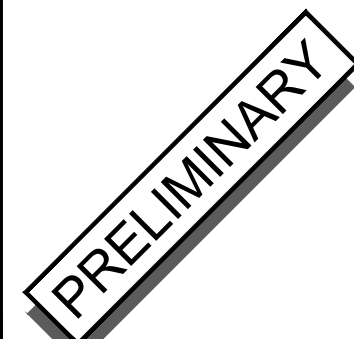




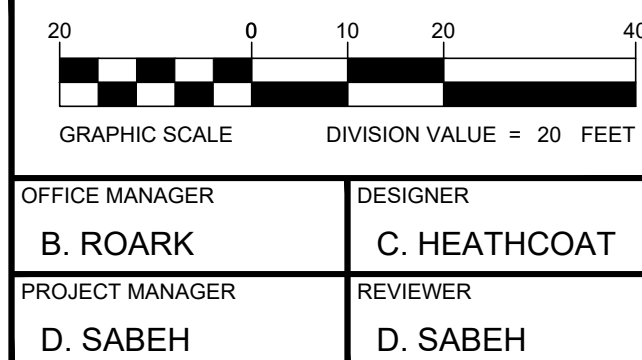
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ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

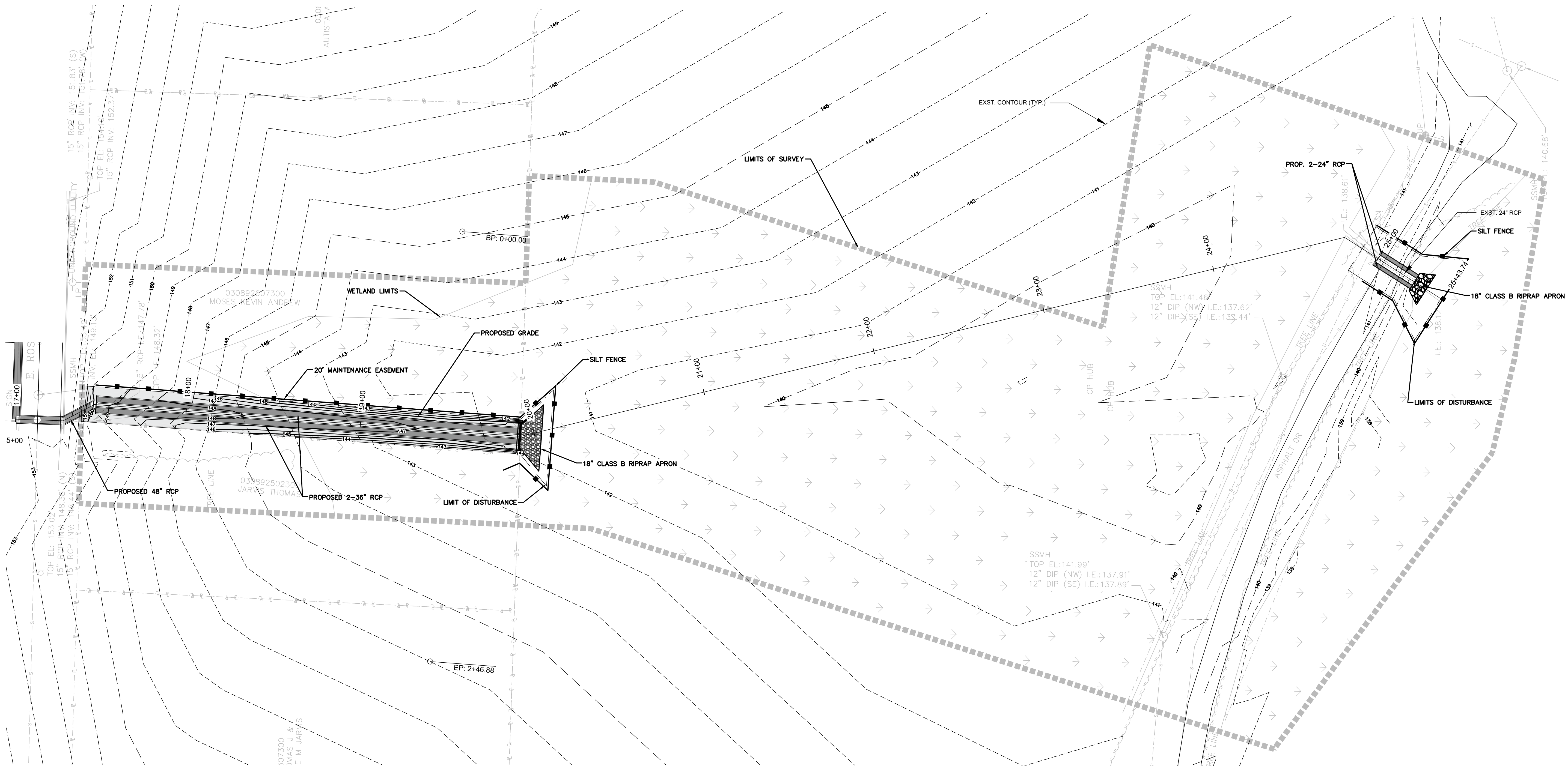
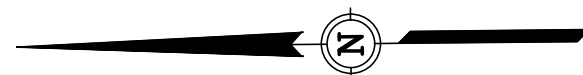
### PROPOSED PLAN AND PROFILE STA. 22+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-16





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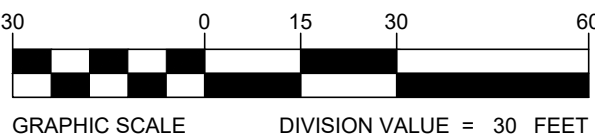
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PRELIMINARY



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

 <div>GRAPHIC SCALE      DIVISION VALUE = 30 FEET</div>	
OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

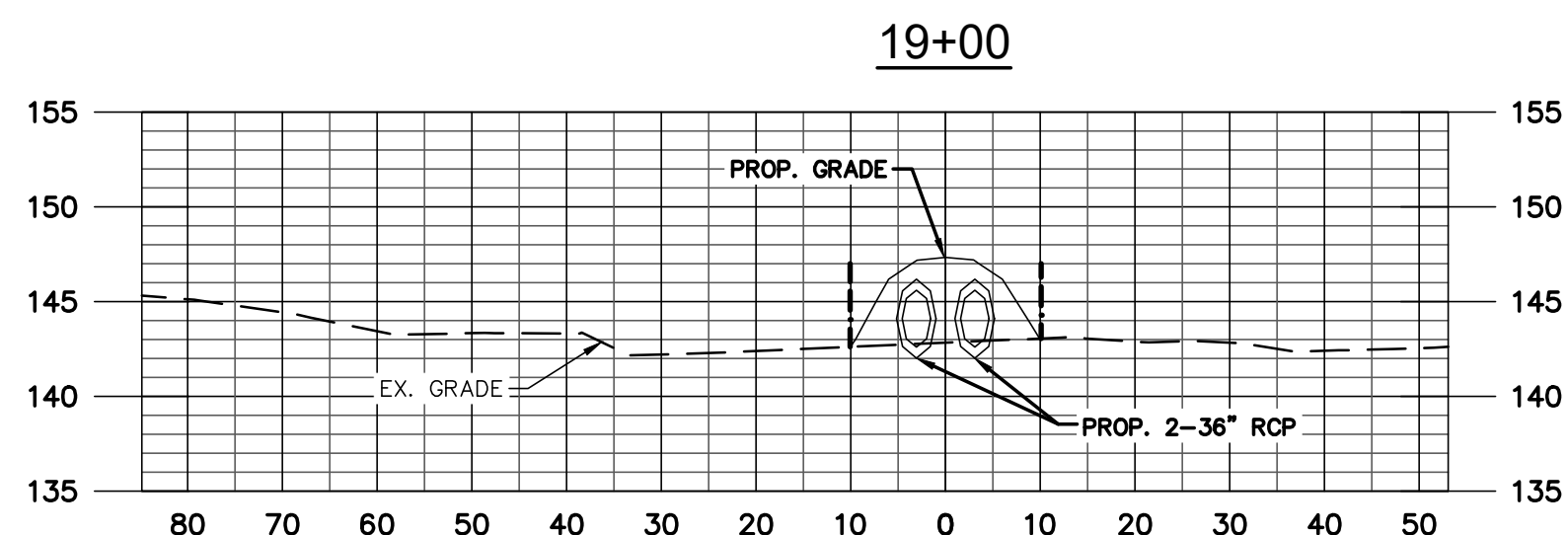
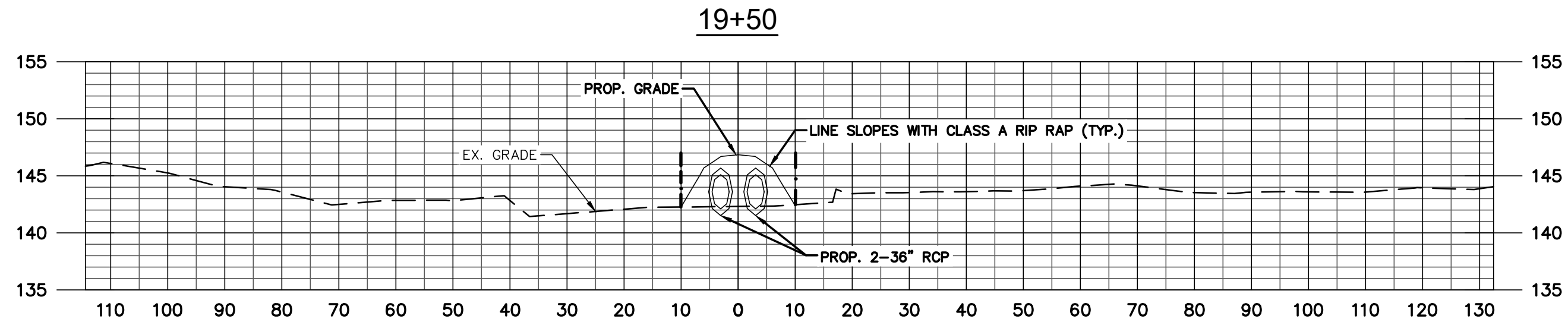
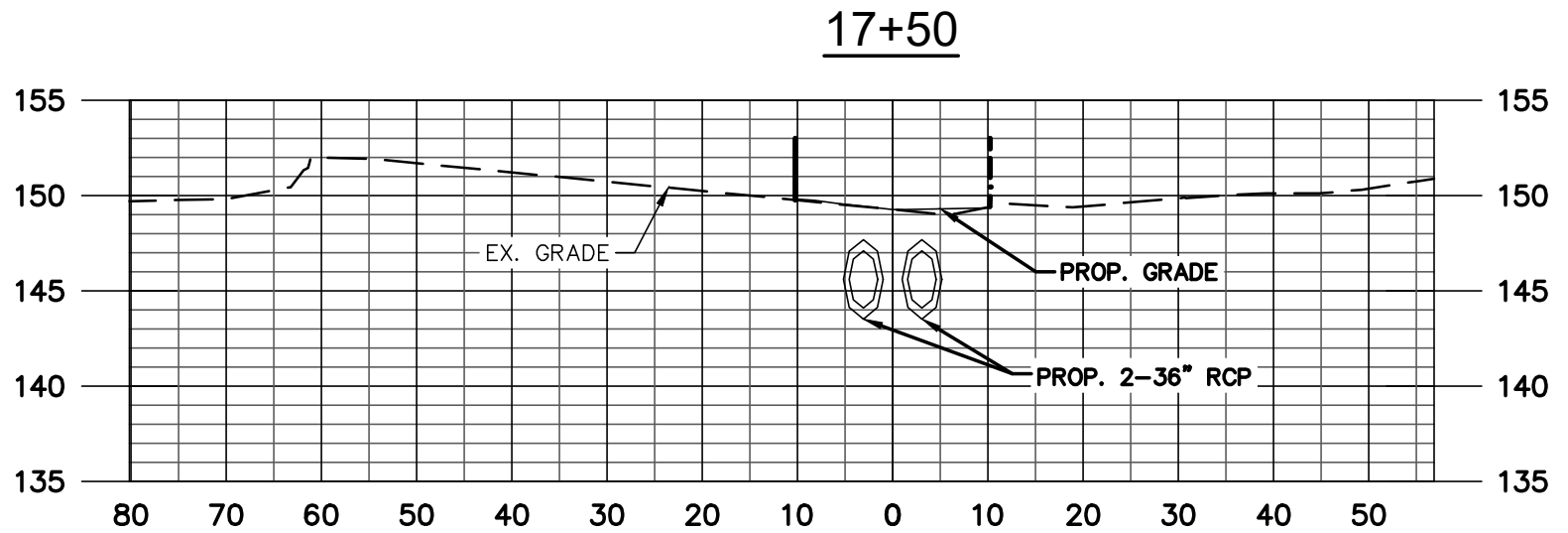
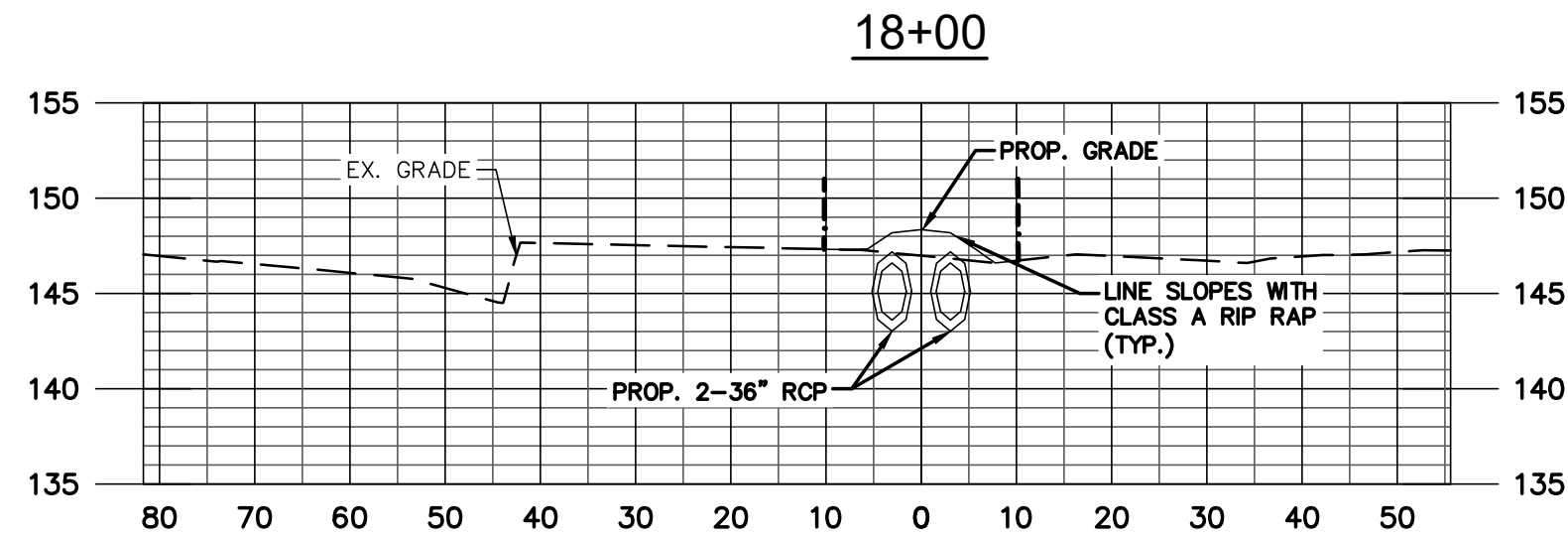
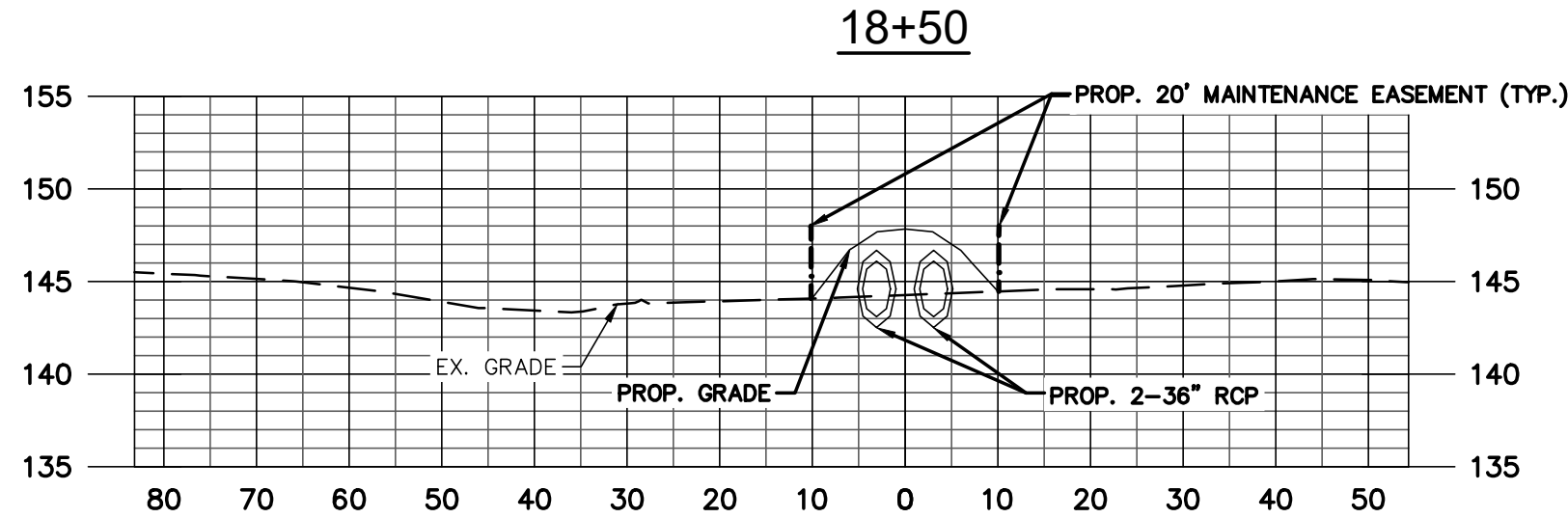
OVERVIEW OF WETLAND IMPACTS  
STA. 17+00-25+50

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-17

**SECTION**  
SCALE: HORIZ. 1"= 20'  
VERT. 1"= 2'



PRELIMINARY  
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CONSTRUCTION

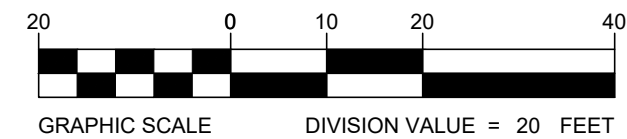


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PRELIMINARY

[illegible]

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA



OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

CROSS SECTIONS 17+50-20+00

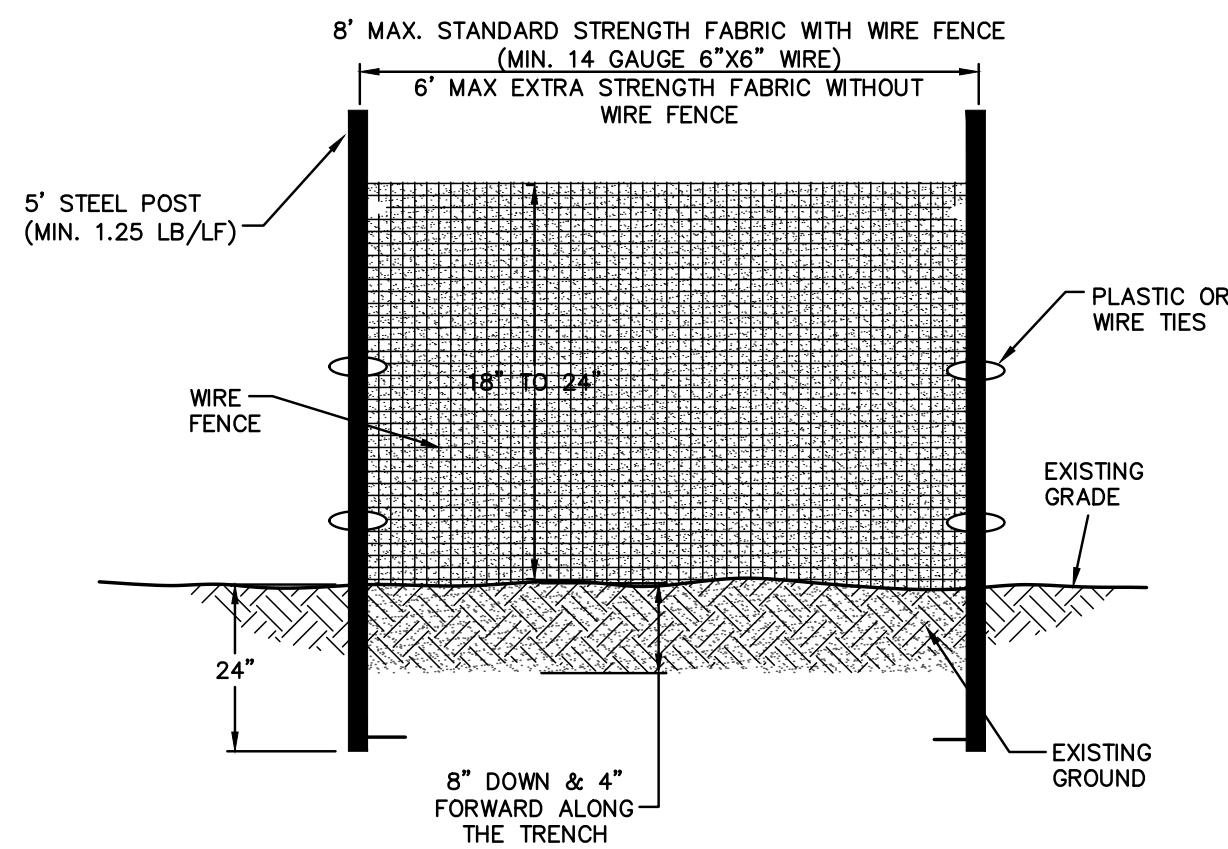
DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

C-20



\\VAD.MCGILLENGINEERS.COM\COMPANY\SHARE\MCGILL PROJECTS\2021\17\_04018-STPAUL-SNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\C-30 EROSION CONTROL DETAIL DWG.PLOT DATE 2/1/2023 9:57 AM KALUA BEESLEY



#### NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. REFERENCE NCDOT LAND QUALITY SECTION DESIGN MANUAL: 6.62.

#### MAINTENANCE:

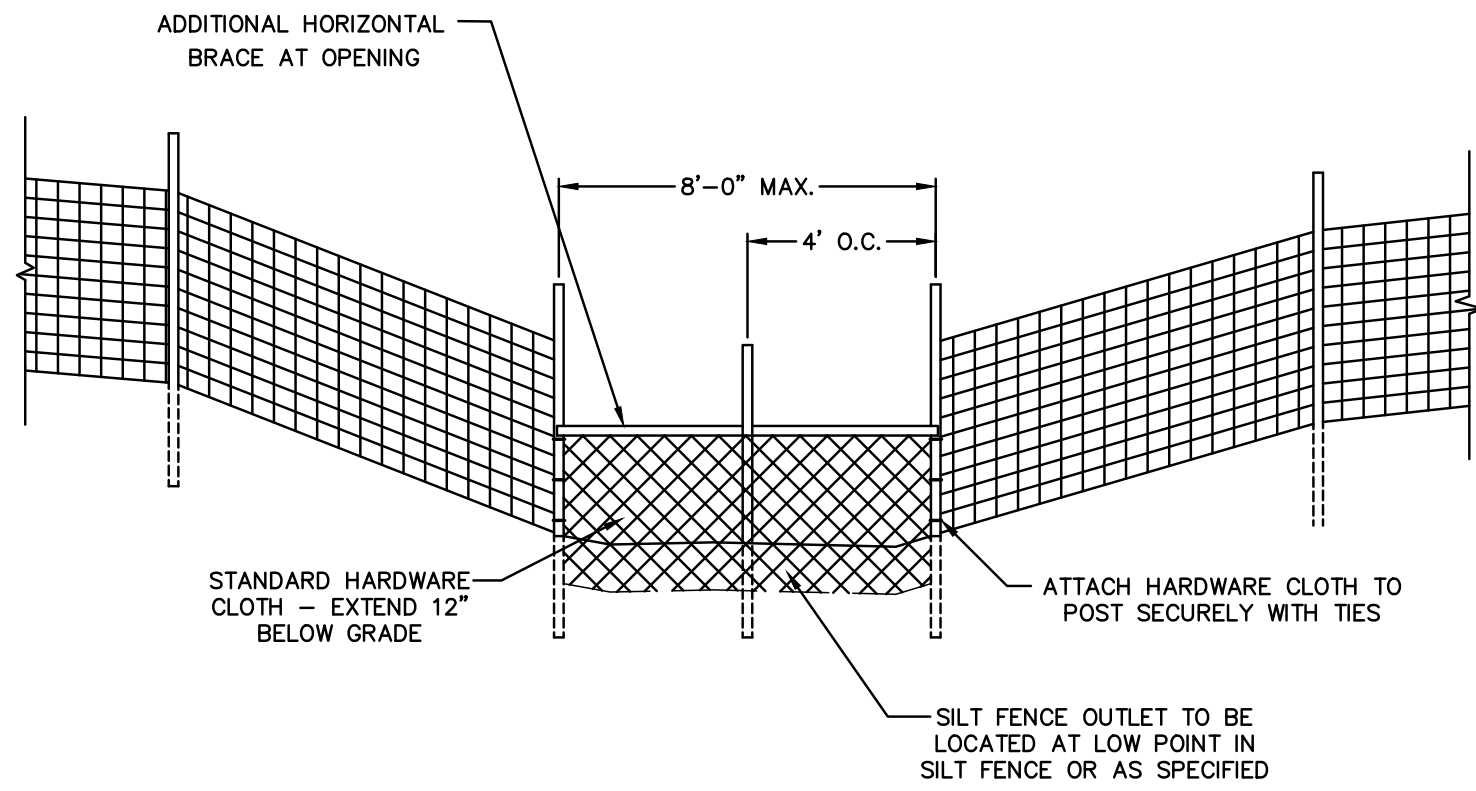
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SLOPE	SLOPE LENGTH(FT)	MAXIMUM AREA(SQFT)
<2%	100	10,000
2 TO 5%	75	7,500
5 TO 10%	50	5,000
10 TO 20%	25	2,500
>20%	15	1,500

SECTION VIEW

### ① SILT FENCE

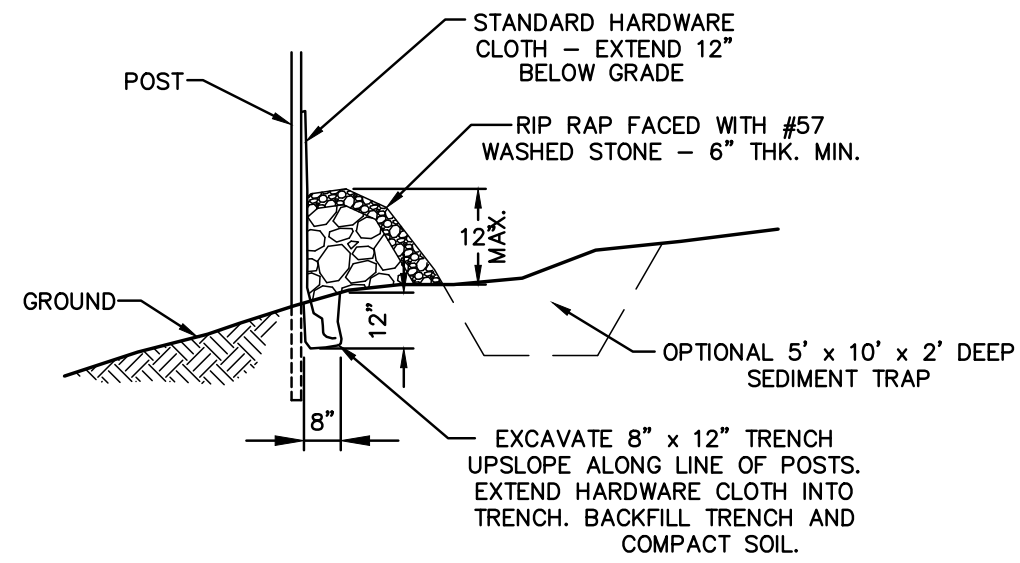
NOT TO SCALE



ELEVATION

#### NOTES:

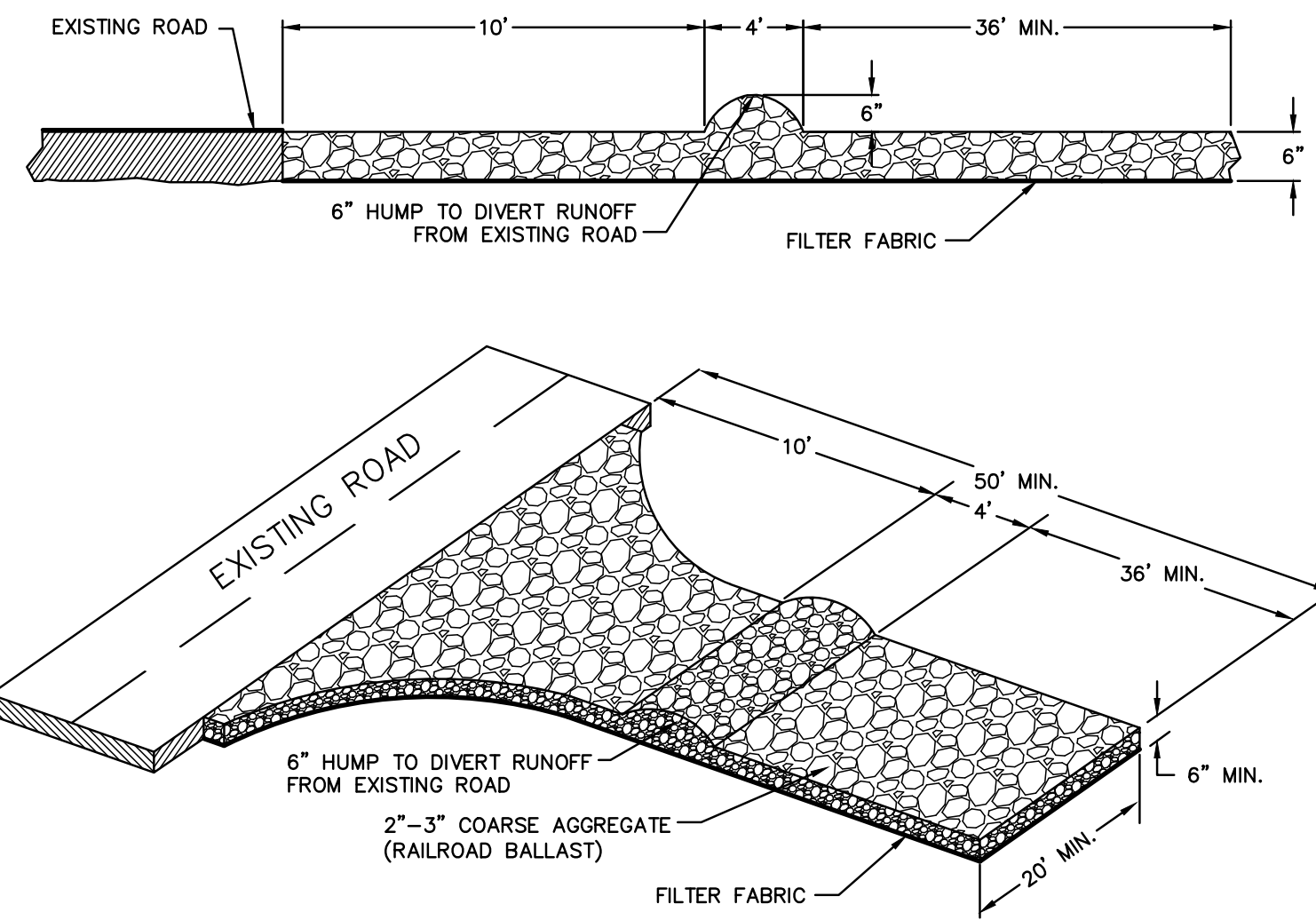
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.
2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.
3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.
4. SILT FENCE OUTLETS SHALL BE LOCATED AT LOW POINTS IN CONTINUOUS RUNS OF SILT FENCE.



SECTION VIEW

### ② SILT FENCE - OUTLET

NOT TO SCALE



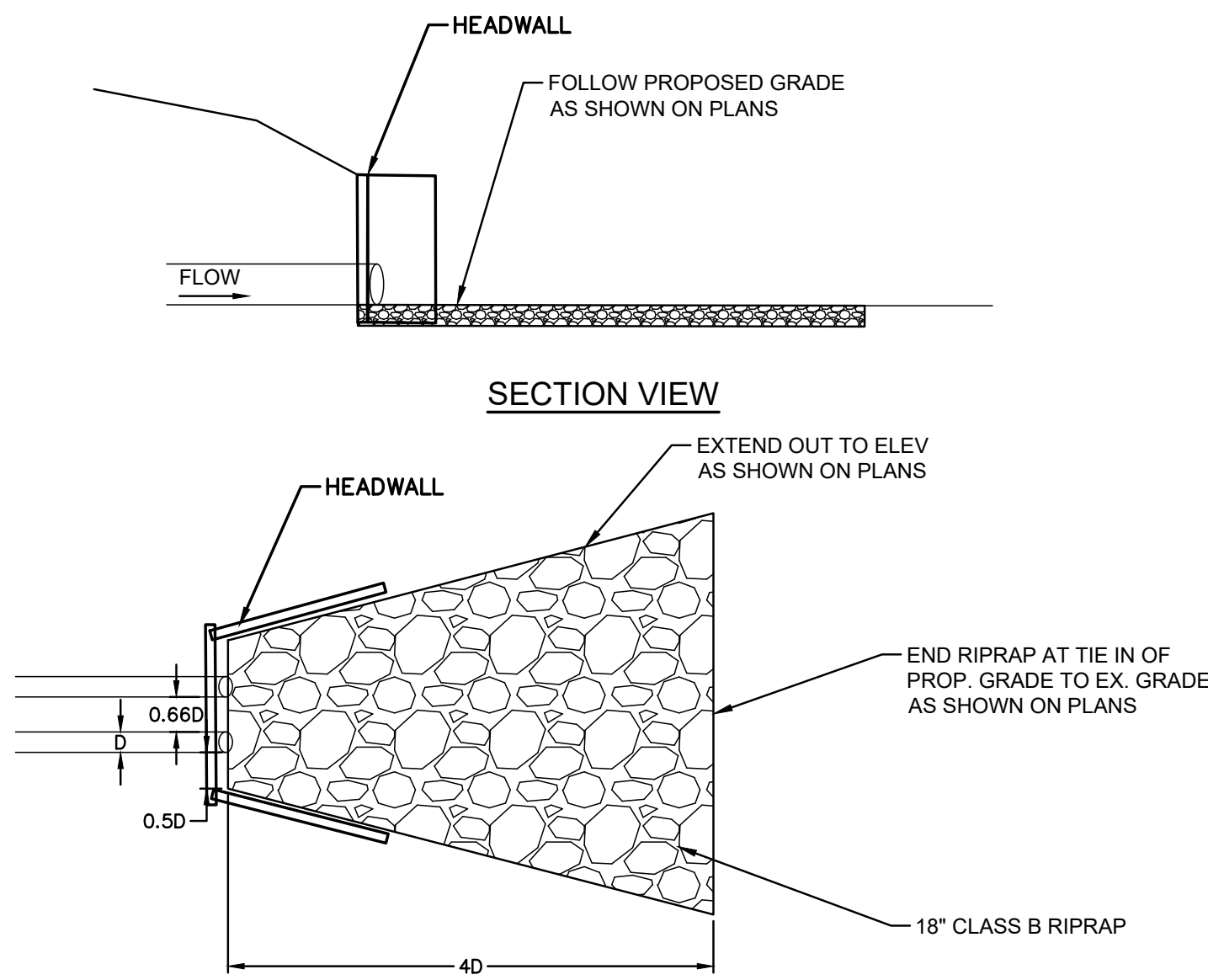
#### NOTES:

1. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM AN EXISTING ROAD.
2. STONE TO BE 2 - 3 INCH WASHED STONE RAILROAD BALLAST.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. REFERENCE NCDOT LAND QUALITY SECTION DESIGN MANUAL: 6.06.

EC  
24

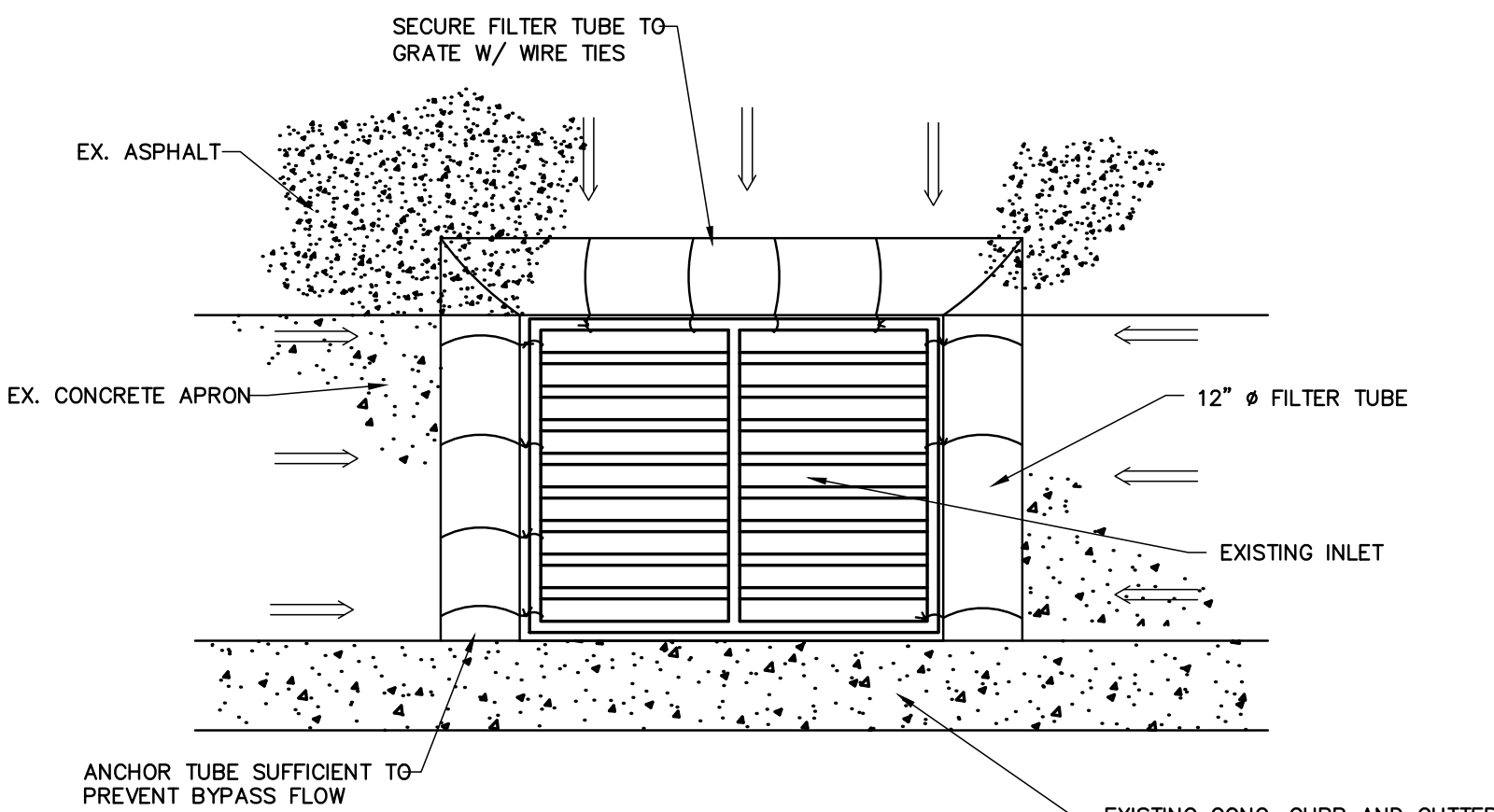
### TEMPORARY CONSTRUCTION ENTRANCE

UPDATED MARCH, 2017  
NOT TO SCALE



### ③ PERMANENT RIPRAP OUTLET PROTECTION

NOT TO SCALE




### FILTER TUBE INLET PROTECTION - PAVED CONDITION - CURB AND GUTTER SECTION

NOT TO SCALE

NOTE:  
REMOVE SEDIMENT FROM BEHIND FILTER TUBE WHEN DEPTH  
HAS REACHED APPROXIMATELY 6"

PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION

NO.	DATE	BY	DESCRIPTION

 <p>GRAPHIC SCALE</p> <p>DIVISION VALUE = 50 FEET</p>	
OFFICE MANAGER <b>B. ROARK</b>	DESIGNER <b>C. HEATHCOAT</b>
PROJECT MANAGER <b>D. SABEH</b>	REVIEWER <b>D. SABEH</b>

### EROSION CONTROL DETAILS 1 OF 2

DATE	PROJECT #	FUNDING #
FEBRUARY 2023	21.04018	N/A

SHEET

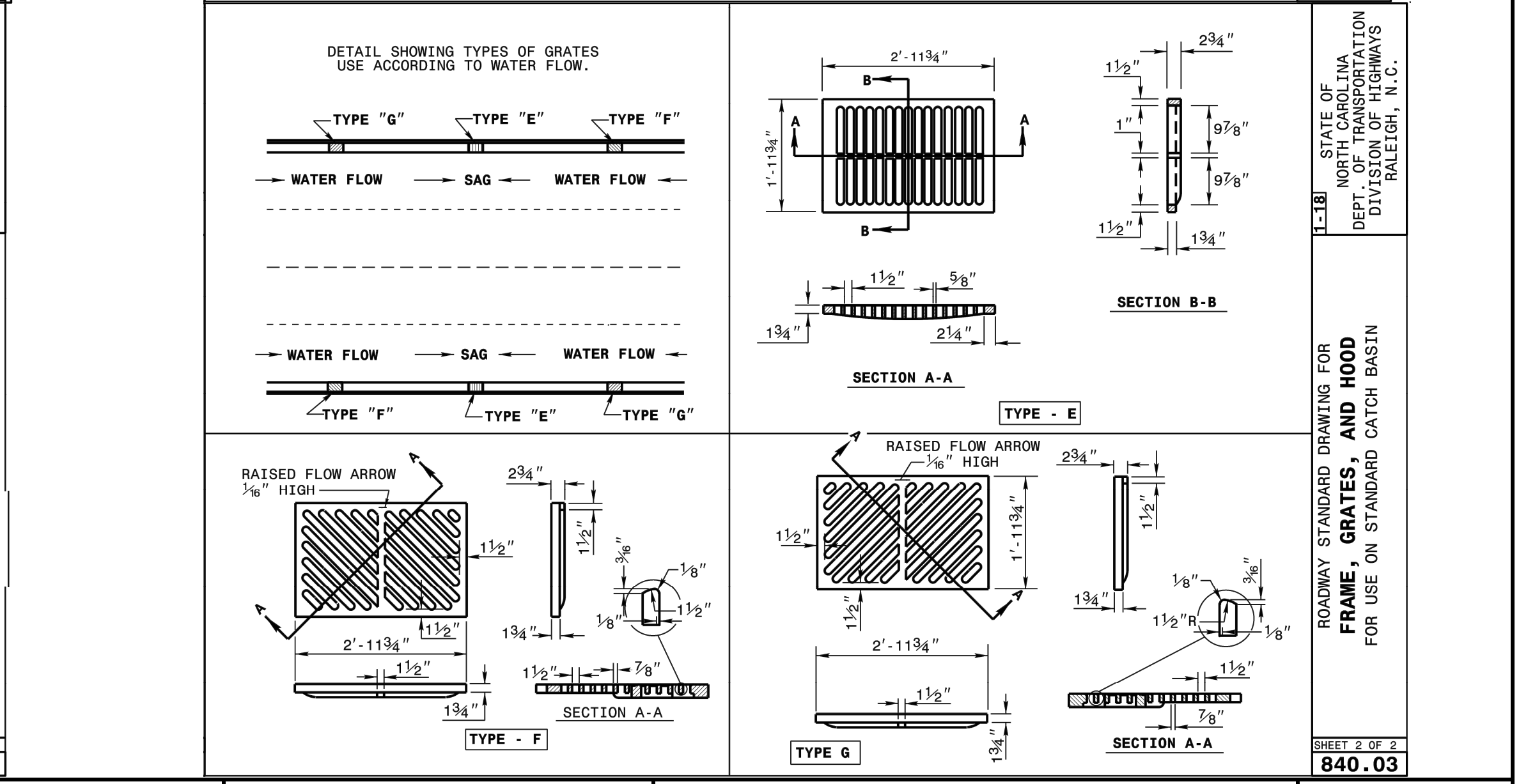
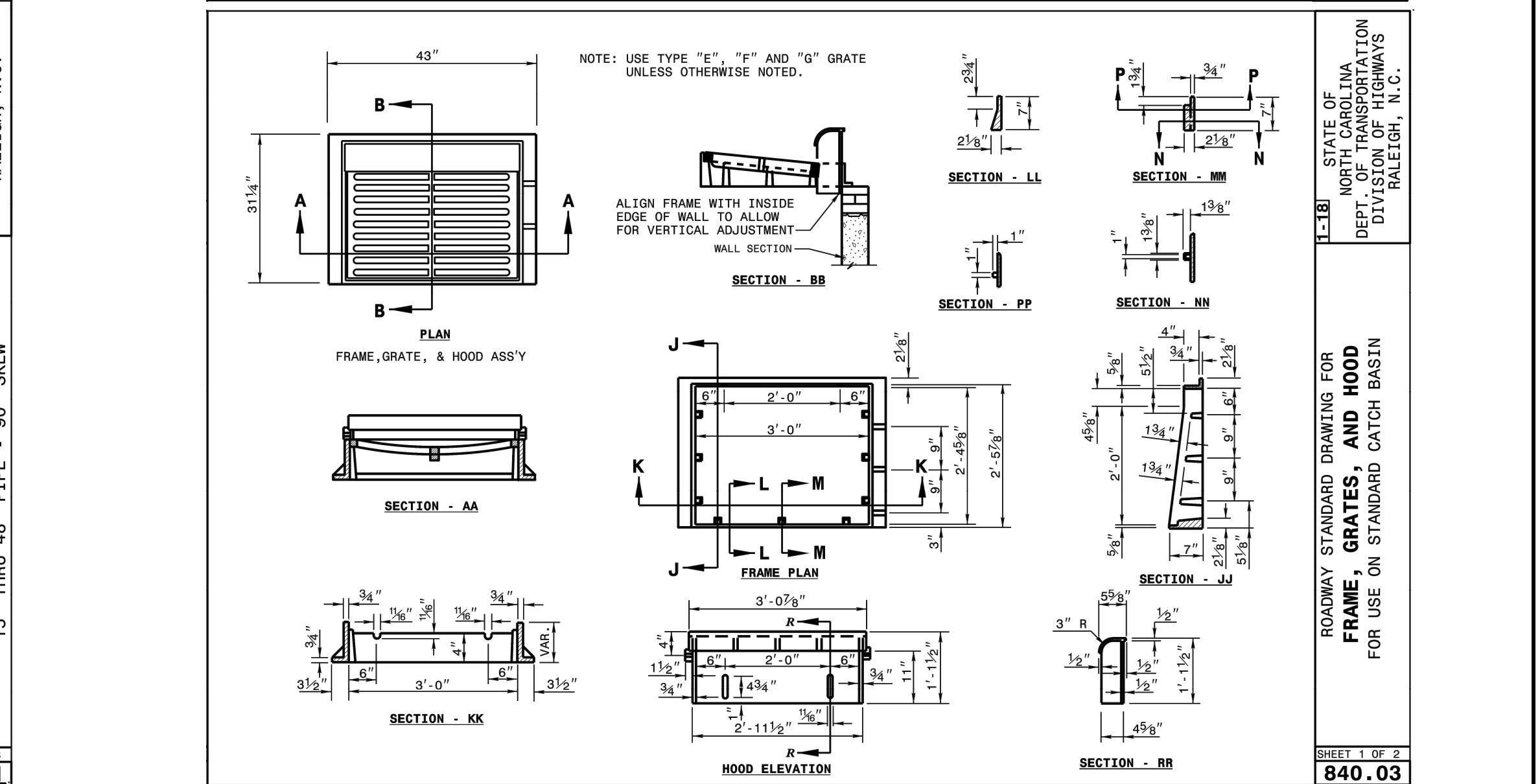
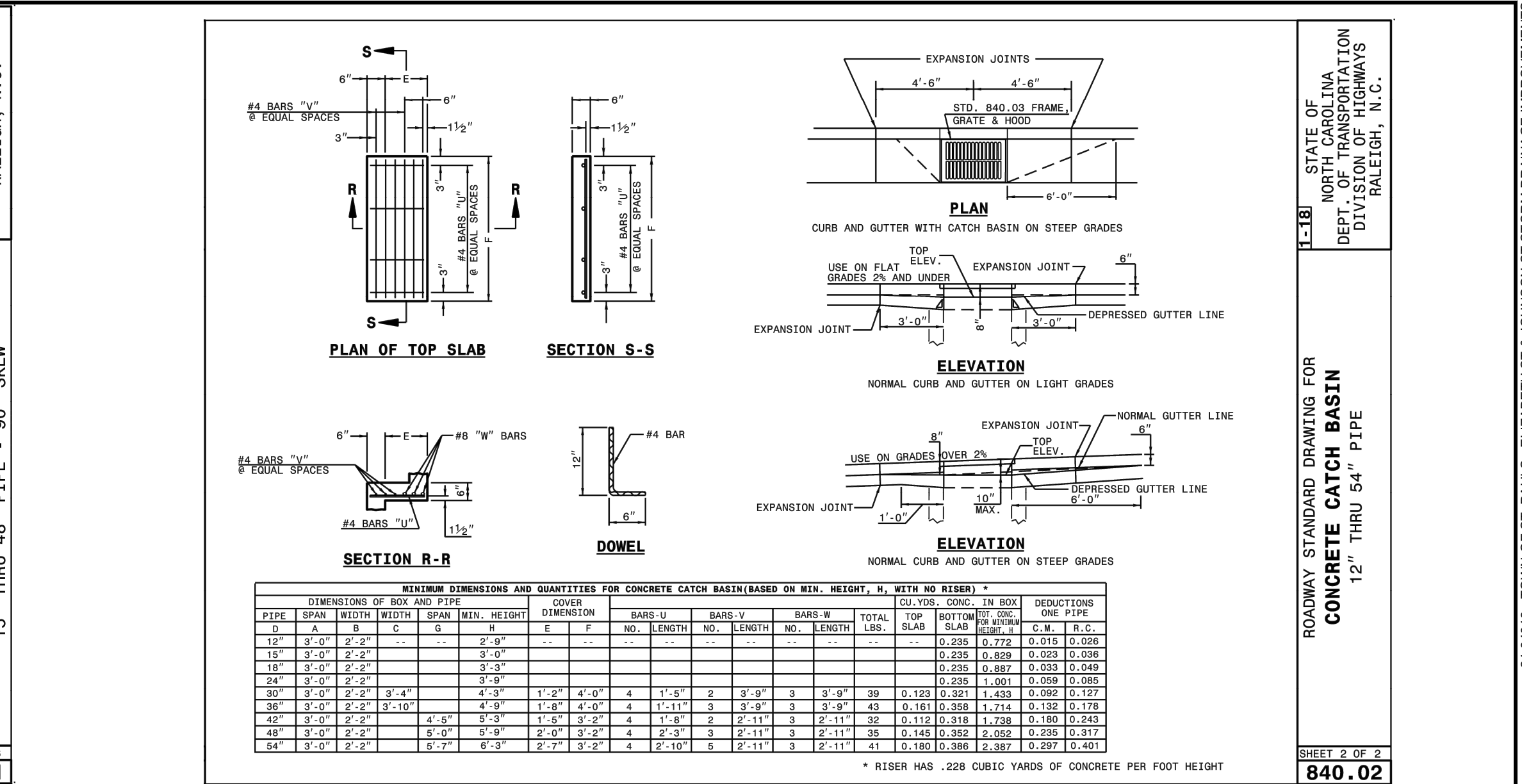
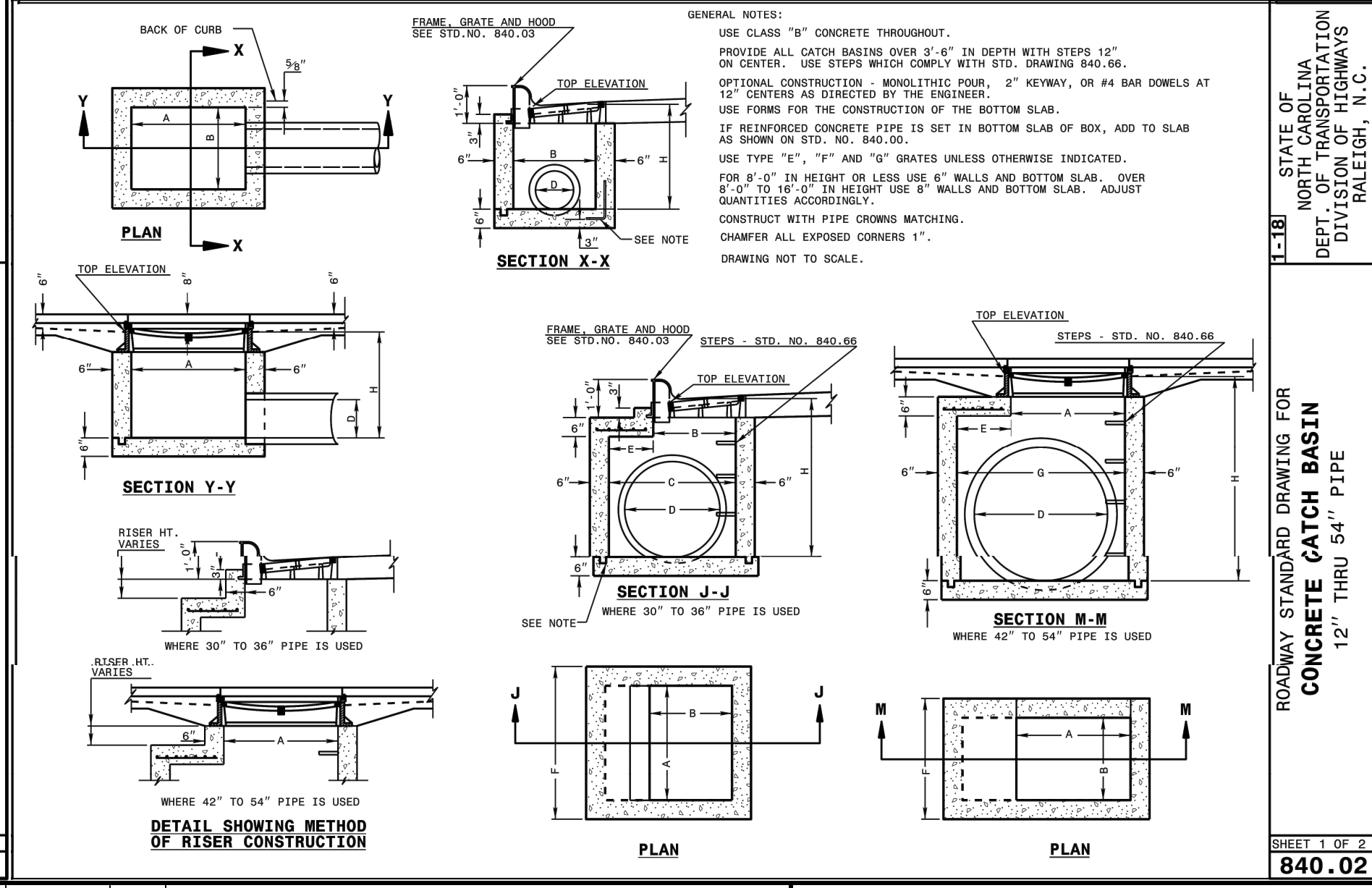
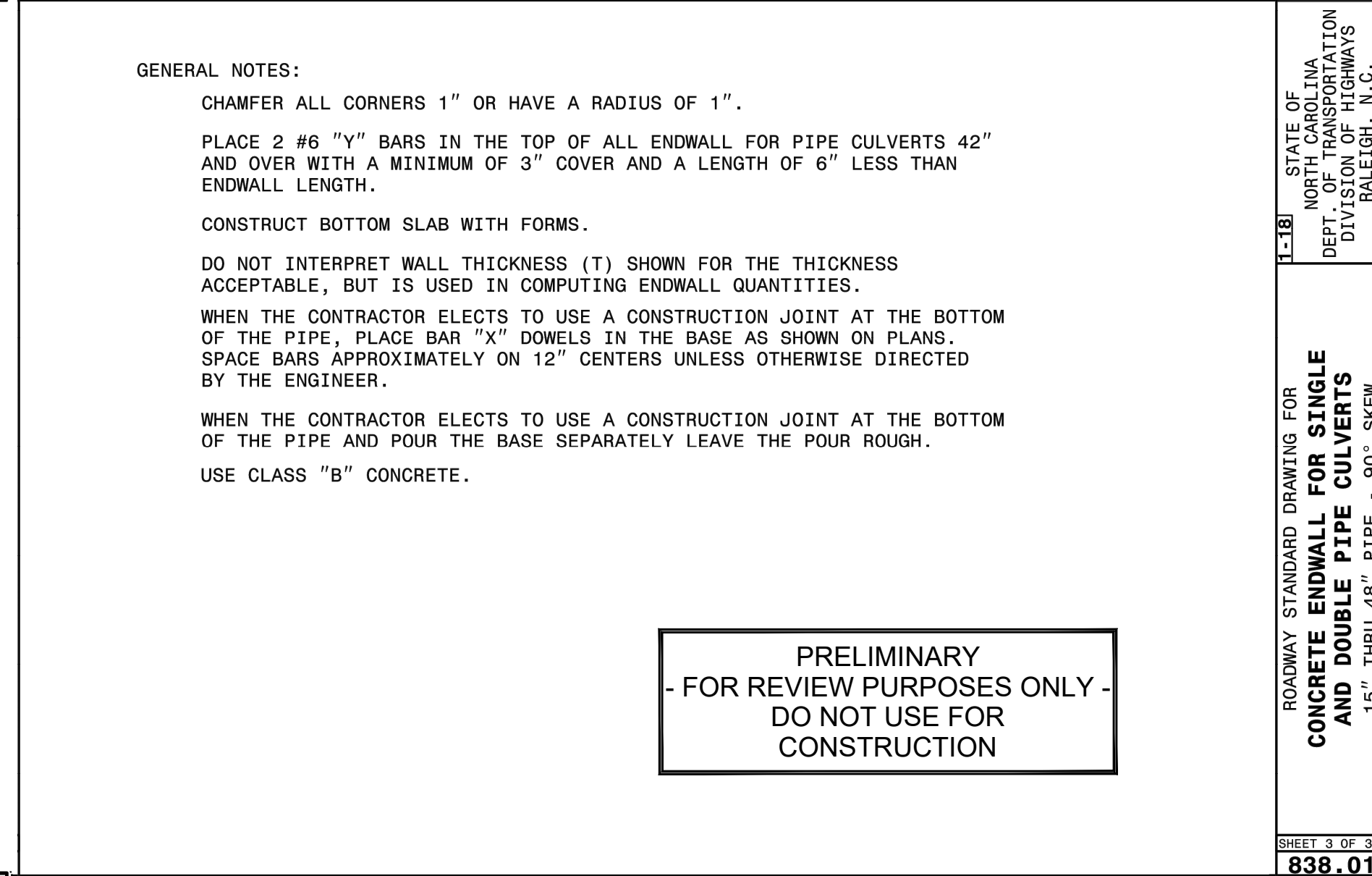
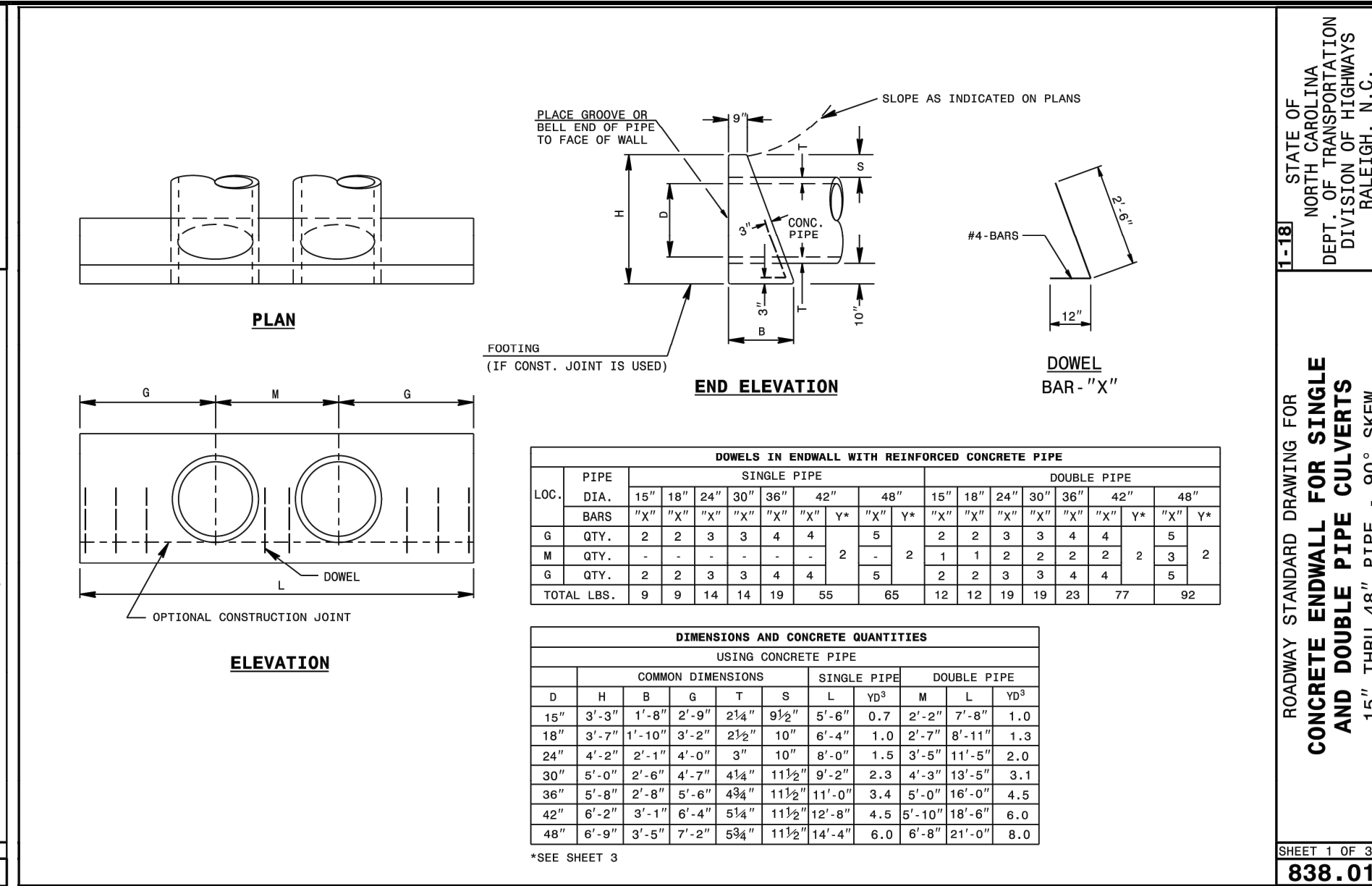
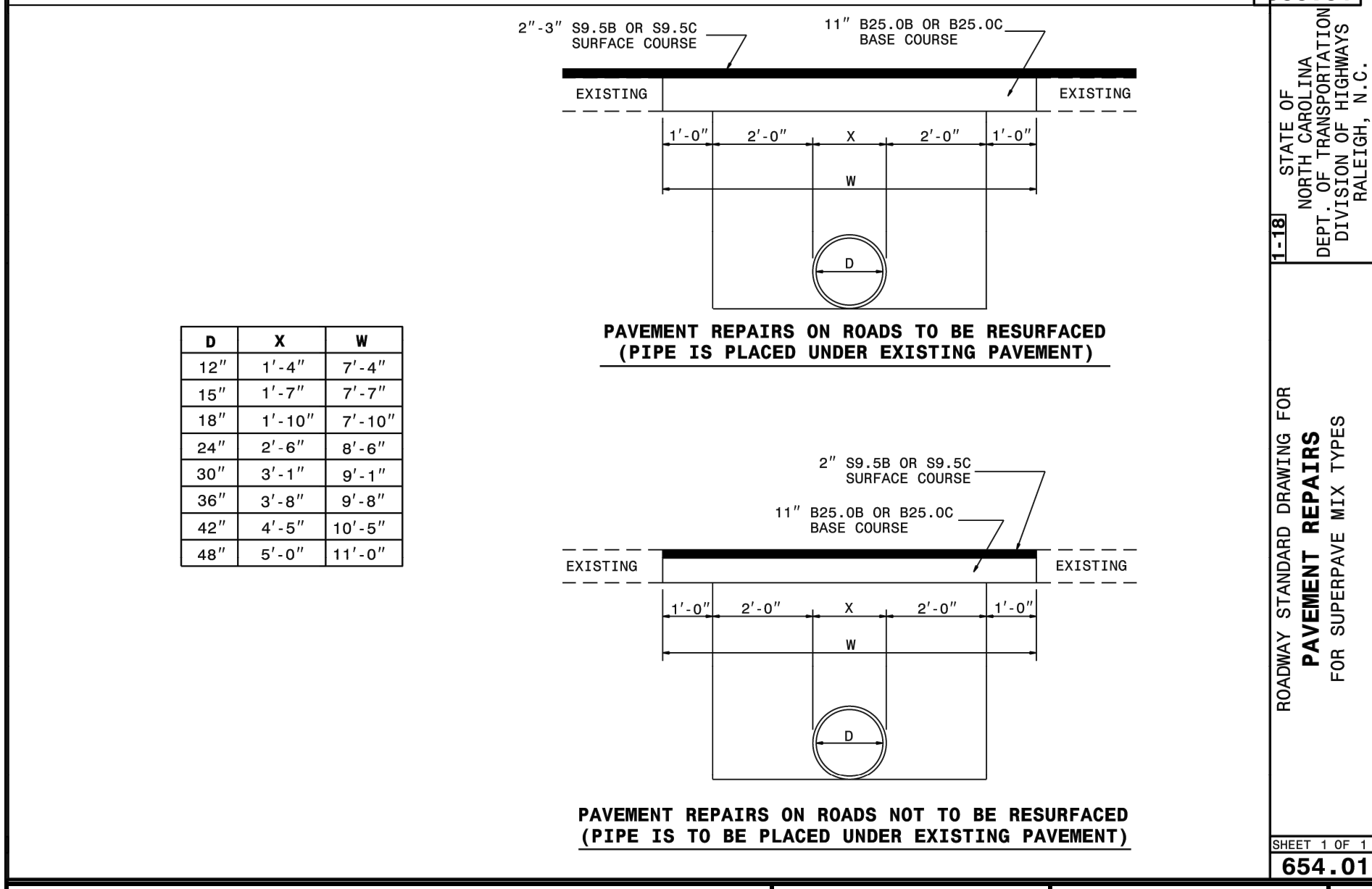
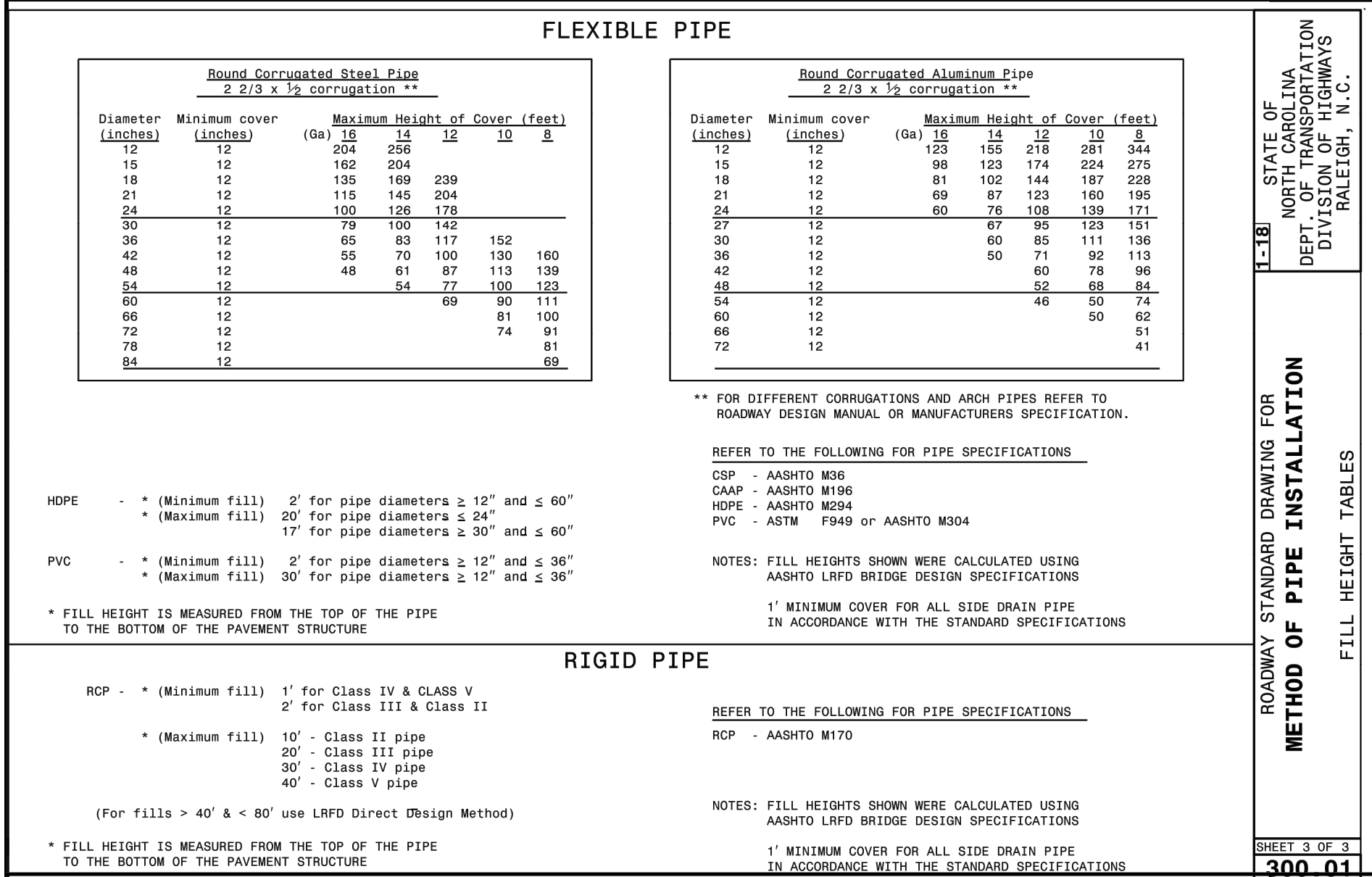
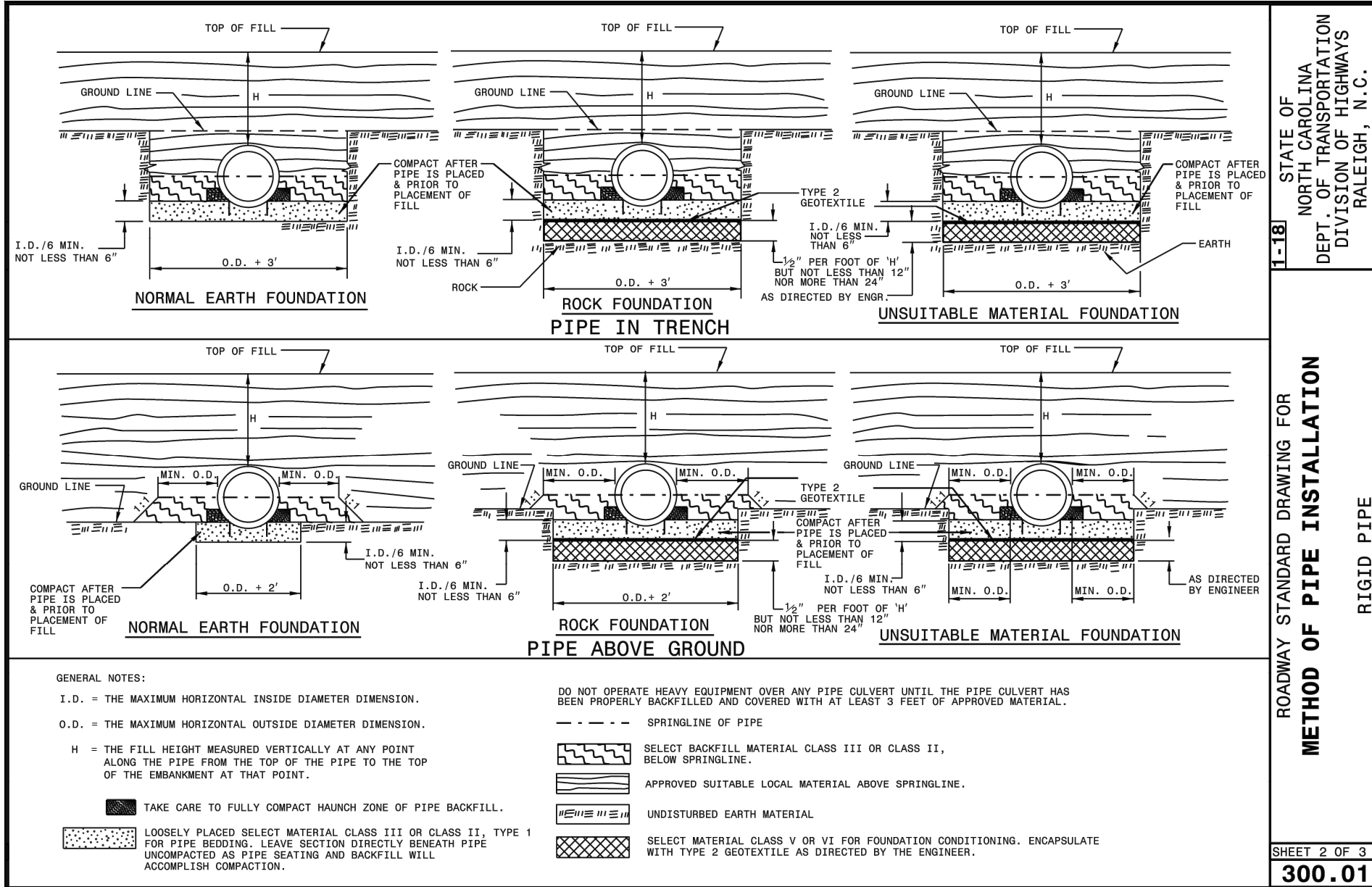
C-30





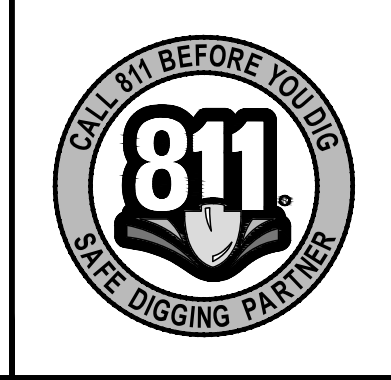


W:\MCGILL\ENGINEERS\COMPCOMPANYSHARE\MCGILL PROJECTS\2021\121,040\18-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE IMPROVEMENTS\DRWG SHEETS\C-31 MISCELLANEOUS DETAILS DWG PLOT DATE 1/31/2023 6:23 PM KALIA BEESLEY



**mcgill**

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NOT TO SCALE

MISCELLANEOUS DETAILS 1 OF 2

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH
DATE FEBRUARY 2023	PROJECT # 21.04018
FUNDING # N/A	

SHEET  
**C-32**

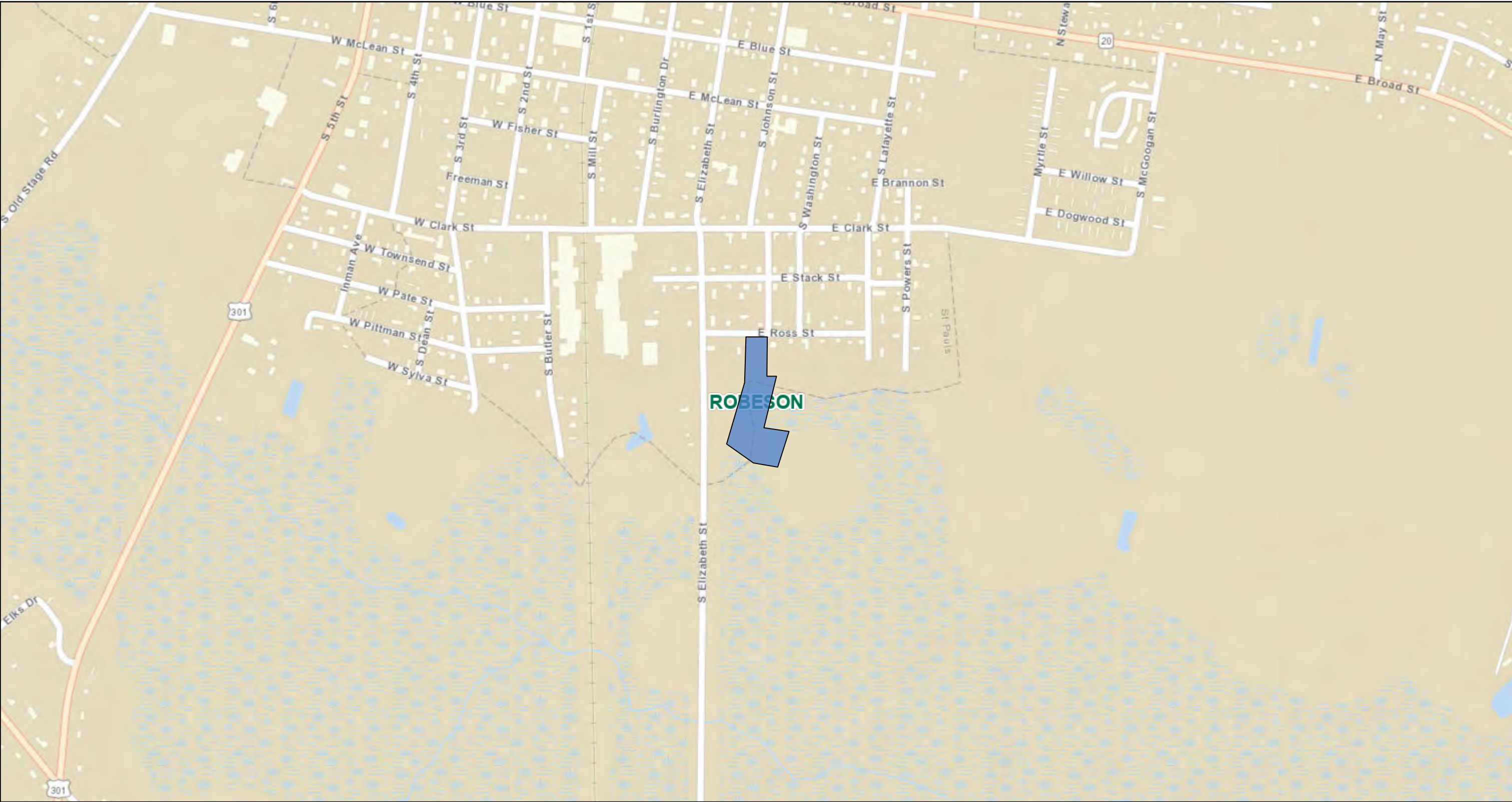








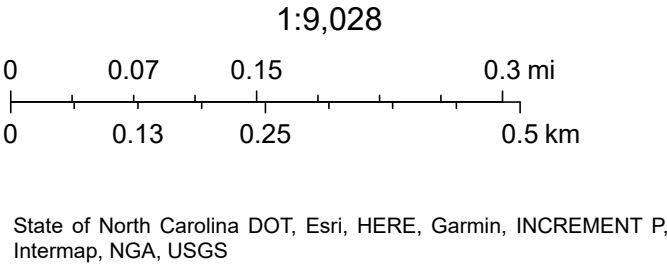
**APPENDIX 3**  
**NCHPO HPOWEB Map**

# NCHPO HPOWEB Map



2/7/2023, 11:43:49 AM

-  Study Area\_2\_6\_2023
-  Counties (outline)





## **APPENDIX 4**

### **IPAC Consultation 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:

February 06, 2023

Project Code: 2023-0042046

Project Name: St.Pauls Elizabeth-Johnson Street Storm Drainage Project

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 ECOS-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 ECOS-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:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.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/birds/policies-and-regulations.php>.

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/birds/bird-enthusiasts/threats-to-birds.php>.

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/birds/policies-and-regulations/executive-orders/e0-13186.php>.

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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
- 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

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## Project Summary

Project Code: 2023-0042046

Project Name: St.Pauls Elizabeth-Johnson Street Storm Drainage Project

Project Type: Drainage Project

Project Description: St.Pauls, North Carolina

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@34.79889085,-78.96804406651196,14z>



Counties: Robeson County, North Carolina

---

## Endangered Species Act Species

There is a total of 5 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<sup>1</sup>, 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.

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
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

### Birds

NAME	STATUS
Red-cockaded Woodpecker <i>Picoides borealis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7614">https://ecos.fws.gov/ecp/species/7614</a>	Endangered

### Reptiles

NAME	STATUS
American Alligator <i>Alligator mississippiensis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/776">https://ecos.fws.gov/ecp/species/776</a>	Similarity of Appearance (Threatened)

### Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## Flowering Plants

NAME	STATUS
Michaux's Sumac <i>Rhus michauxii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5217">https://ecos.fws.gov/ecp/species/5217</a>	Endangered

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



# Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats 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)

**The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location.** To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

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
<b>Chimney Swift <i>Chaetura pelagica</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
<b>Prothonotary Warbler <i>Protonotaria citrea</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
<b>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10

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## 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 and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

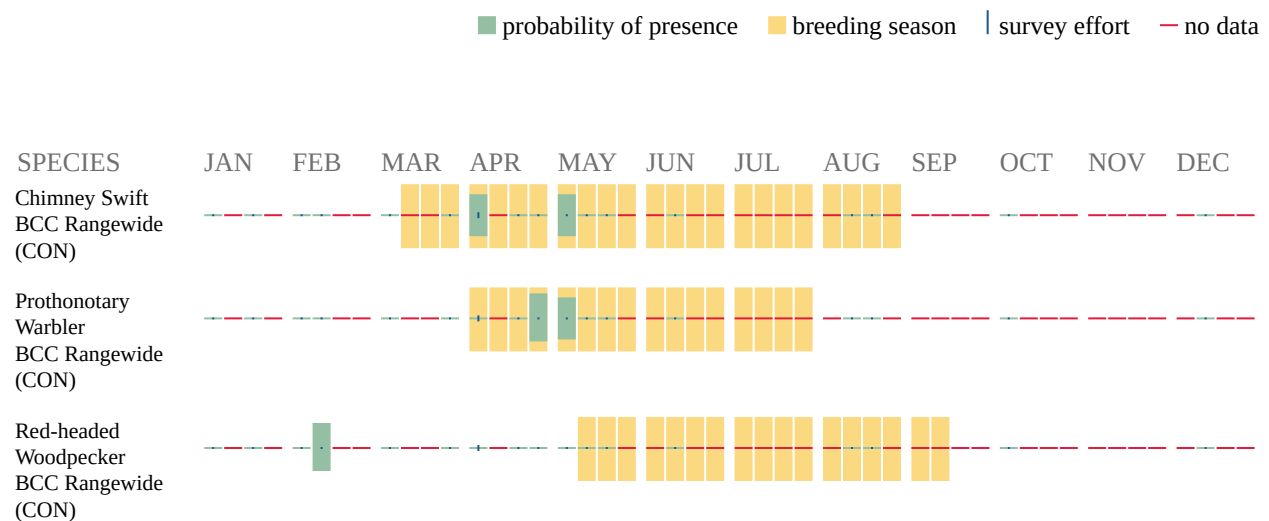
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

## Migratory Birds FAQ

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
  2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
  3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).
-



Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

---

## **IPaC User Contact Information**

Agency: St. Pauls town  
Name: Alex Lowdermilk  
Address: 1240 19th Street Lane NW  
City: Hickory  
State: NC  
Zip: 28601  
Email: alex.lowdermilk@mcgillassociates.com  
Phone: 8285140345

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## **APPENDIX 5**

### **Preliminary Jurisdictional Determination (PJD)**

February 8, 2023

Gary Beecher  
US Army Corps of Engineers  
Washington Regulatory Field Office  
2407 West Fifth Street  
Washington, North Carolina 27889

RE: Elizabeth-Johnson Storm Drainage Project  
Jurisdictional Determination  
Saint Pauls, North Carolina

Dear Mr. Beecher:

This letter is to request confirmation of a Preliminary Jurisdictional Determination on the referenced site. The request is based on data, site observations, and a site visit on October 13, 2021 and February 7, 2023. We are requesting confirmation of the jurisdictional limits of 'Wetland A'. The location of Wetland A is shown and labeled on the attached Delineation Map. Included in this letter are the following:

- Agent Authorization Form
- PJD Request Forms
- Location Map
- USGS Topographic Map
- Delineation Map
- NWI Map
- Photo Sheet
- Soils Map
- Wetland Determination Data Sheets

Please include McGill Associates on the copy list of all correspondence for this project. If you have any questions regarding this information, please contact me at 828-328-2024.

Sincerely,  
**MCGILL ASSOCIATES, PA**

A handwritten signature in black ink, appearing to read 'Jon Swaim'.

**JON SWAIM**  
Project Manager / Environmental Services

P:\2021\21.04018-StPaulsNC-Elizabeth-Johnson Street Storm Drainage



# Jurisdictional Determination Request

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**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

## **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

## **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

## **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.

## Jurisdictional Determination Request

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### A. PARCEL INFORMATION

Street Address: \_\_\_\_\_

City, State: \_\_\_\_\_

County: \_\_\_\_\_

Parcel Index Number(s) (PIN): \_\_\_\_\_

### B. REQUESTOR INFORMATION

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Electronic Mail Address: \_\_\_\_\_

Select one:

☐

I am the current property owner.

☐

I am an Authorized Agent or Environmental Consultant<sup>1</sup>

☐

Interested Buyer or Under Contract to Purchase

☐

Other, please explain. \_\_\_\_\_

\_\_\_\_\_

### C. PROPERTY OWNER INFORMATION<sup>2</sup> OWNER

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Electronic Mail Address: \_\_\_\_\_

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<sup>1</sup> Must provide completed Agent Authorization Form/Letter.

<sup>2</sup> Documentation of ownership also needs to be provided with request (copy of Deed, County GIS/Parcel/Tax Record).

## Jurisdictional Determination Request

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### D. PROPERTY ACCESS CERTIFICATION<sup>3,4</sup>

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.

\_\_\_\_\_  
Print Name

Capacity: ☐ Owner ☐ Authorized Agent<sup>5</sup>

\_\_\_\_\_  
Date

*Jon Swaim*  
\_\_\_\_\_  
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: \_\_\_\_\_

<sup>3</sup> For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.

<sup>4</sup> If there are multiple parcels owned by different parties, please provide the following for each additional parcel on a continuation sheet.

<sup>5</sup> Must provide agent authorization form/letter signed by owner(s).

## Jurisdictional Determination Request

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### 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 \_\_\_\_\_ acres.

☐ The property boundary (or review area boundary) is clearly physically marked on the site.



# Jurisdictional Determination Request

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## H. REQUESTS FROM CONSULTANTS

☐

Project Coordinates (Decimal Degrees): Latitude: \_\_\_\_\_  
Longitude: \_\_\_\_\_

☐

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).<sup>6</sup>

- 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)

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<sup>6</sup> 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/>

## Jurisdictional Determination Request

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- ☐ Completed appropriate Jurisdictional Determination form
  - **PJDs**, please complete a Preliminary Jurisdictional Determination Form<sup>7</sup> and include the Aquatic Resource Table
  - **AJDs**, please complete an Approved Jurisdictional Determination Form<sup>8</sup>
- ☐ Vicinity Map
- ☐ Aerial Photograph
- ☐ USGS Topographic Map
- ☐ Soil Survey Map
- ☐ Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)
- ☐ Landscape Photos (if taken)
- ☐ NCSAM and/or NCWAM Assessment Forms and Rating Sheets
- ☐ NC Division of Water Resources Stream Identification Forms
- ☐ Other Assessment Forms

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<sup>7</sup> [www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL\\_08-02\\_App\\_A\\_Prelim\\_JD\\_Form\\_fillable.pdf](http://www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL_08-02_App_A_Prelim_JD_Form_fillable.pdf)

<sup>8</sup> 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.

## Preliminary ORM Data Entry Fields for New Actions

ACTION ID #: SAW-

Begin Date (Date Received):

Prepare file folder

Assign Action ID Number in ORM

1. Project Name [PCN Form A2a]:

2. Work Type:      Private      Institutional      Government      Commercial

3. Project Description / Purpose [PCN Form B3d and B3e]:

4. Property Owner / Applicant [PCN Form A3 or A4]:

5. Agent / Consultant [PNC Form A5 – or ORM Consultant ID Number]:

6. Related Action ID Number(s) [PCN Form B5b]:

7. Project Location – Coordinates, Street Address, and/or Location Description [PCN Form B1b]:

8. Project Location – Tax Parcel ID [PCN Form B1a]:

9. Project Location – County [PCN Form A2b]:

10. Project Location – Nearest Municipality or Town [PCN Form A2c]:

11. Project Information – Nearest Waterbody [PCN Form B2a]:

12. Watershed / 8-Digit Hydrologic Unit Code [PCN Form B2c]:

Authorization: Section 10

Section 404

Section 10 and 404

Regulatory Action Type:

Standard Permit

Nationwide Permit #

Regional General Permit #

Jurisdictional Determination Request

Pre-Application Request

Unauthorized Activity

Compliance

No Permit Required

[illegible]



- 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 PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☐ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: \_\_\_\_\_.
- ☐ Data sheets prepared/submitted by or on behalf of the PJD requestor.  
☐ Office concurs with data sheets/delineation report.  
☐ Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_.
- ☐ 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: \_\_\_\_\_.
- ☐ Natural Resources Conservation Service Soil Survey. Citation: \_\_\_\_\_.
- ☐ National wetlands inventory map(s). Cite name: \_\_\_\_\_.
- ☐ State/local wetland inventory map(s): \_\_\_\_\_.
- ☐ FEMA/FIRM maps: \_\_\_\_\_.
- ☐ 100-year Floodplain Elevation is: \_\_\_\_\_.(National Geodetic Vertical Datum of 1929)
- ☐ Photographs: ☐ Aerial (Name & Date): \_\_\_\_\_.  
or ☐ Other (Name & Date): \_\_\_\_\_.
- ☐ Previous determination(s). File no. and date of response letter: \_\_\_\_\_.
- ☐ Other information (please specify): \_\_\_\_\_.

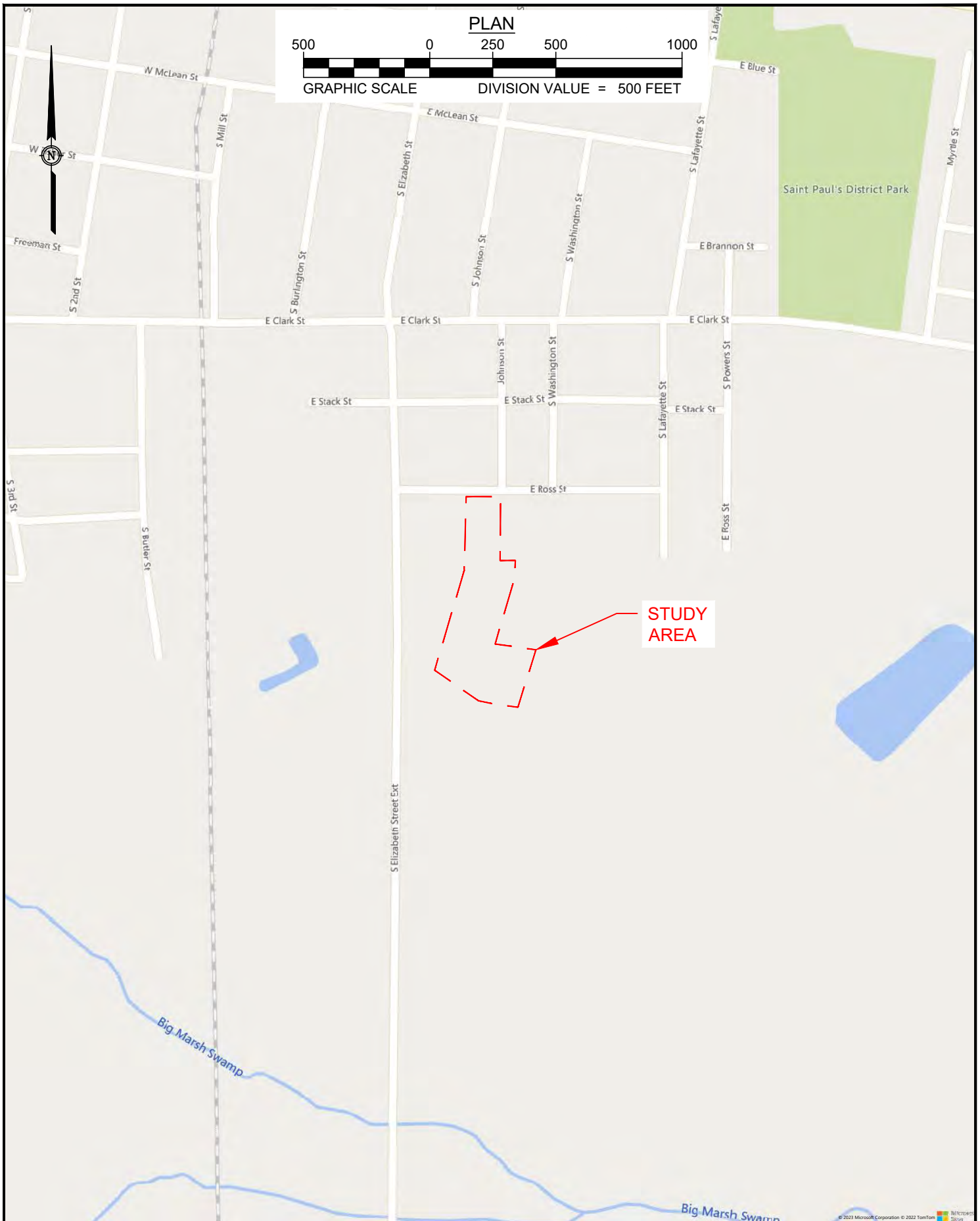
**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

\_\_\_\_\_  
Signature and date of  
Regulatory staff member  
completing PJD

*Jon Swain* 2/8/2023  
\_\_\_\_\_  
Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> 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.

P:\2021\21.04018-STPAULS-SNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\FIGURES\DWG PLOT DATE 2/7/2023 8:26 AM ALEX LOWDERMILK



1240 19th Street Lane NW  
Hickory, NC 28601  
828.328.2024  
NC Firm License # C-0459  
mcgillassociates.com

DATE  
2/7/2023

PROJECT #  
21.04018

PROJECT MANAGER  
D. SABEH

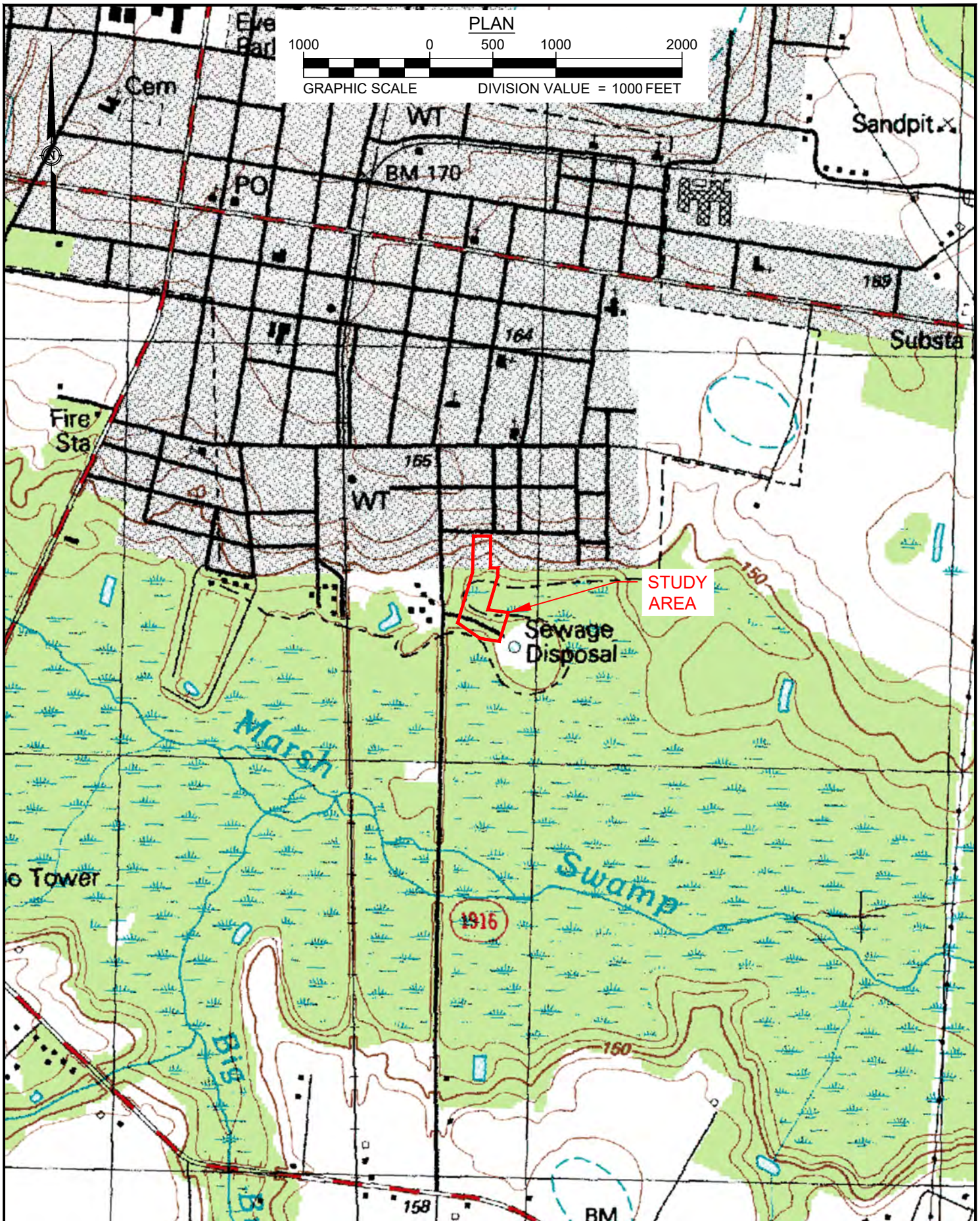
ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

LOCATION MAP

FIGURE

1





P:\2021\21.04018-STPAULS-NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\FIGURES\DWG PLOT DATE 2/7/2023 8:31 AM ALEX LOWDERMILK



1240 19th Street Lane NW  
Hickory, NC 28601  
828.328.2024  
NC Firm License # C-0459  
mcgillassociates.com

DATE  
2/7/2023

PROJECT #  
21.04018

PROJECT MANAGER  
D. SABEH

ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

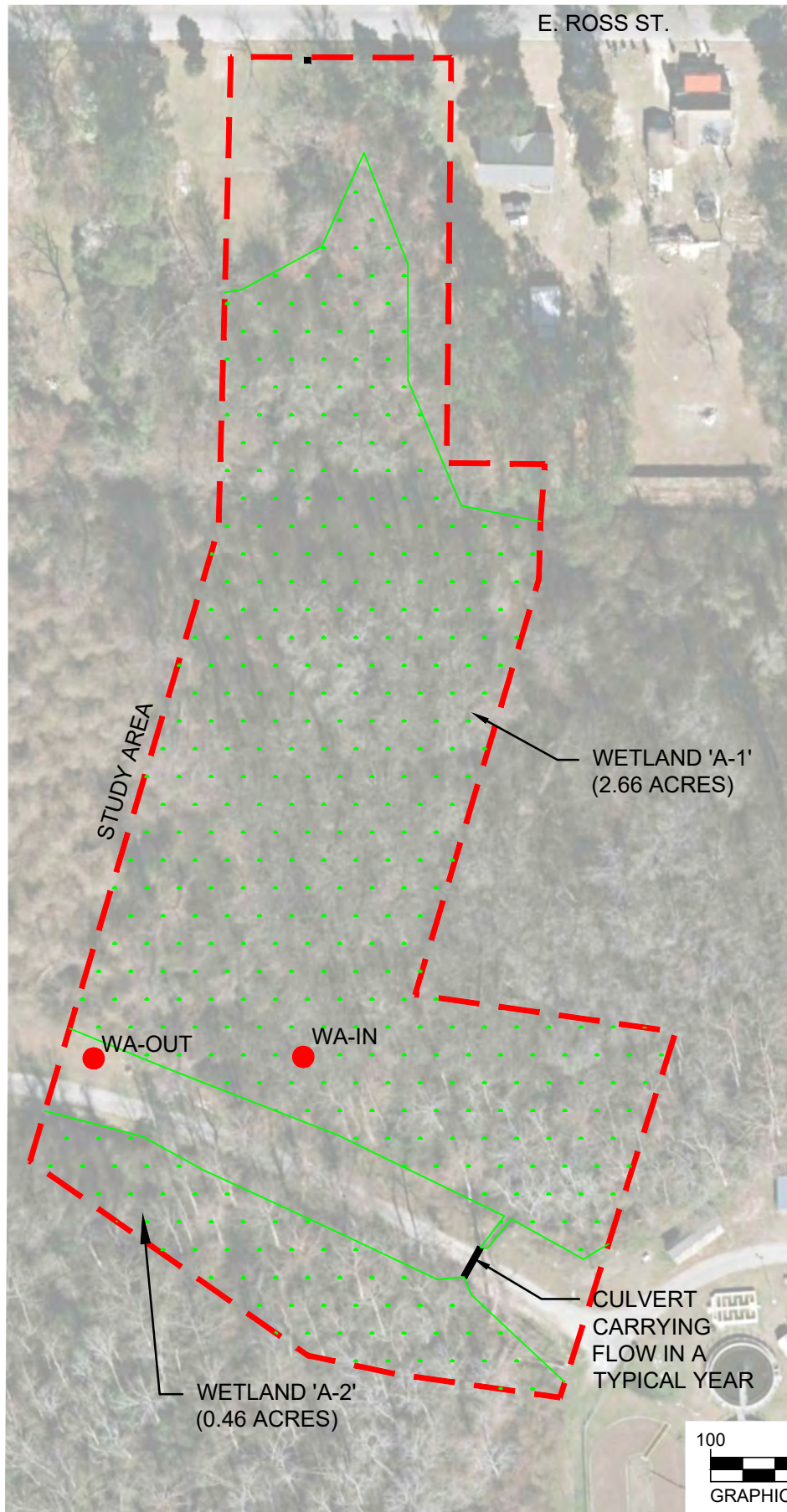
USGS LOCATION MAP

FIGURE

2



P:\2021\21 04018-STPAULS-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DESIGN\PERMITS\404-401\JD\DELINERATIONMAP\_2\_6\_2023.DWG PLOT DATE 2/8/2023 10:38 AM ALEX LOWDERMILK



#### NOTES:

1. JURISDICTIONAL AQUATIC RESOURCES IDENTIFIED ON THIS MAP HAVE BEEN LOCATED WITHIN SUB-METER ACCURACY UTILIZING A GLOBAL POSITIONING SYSTEM (GPS) AND THE SUBSEQUENT DIFFERENTIAL CORRECTION OF THAT DATA. GPS POINTS MAY DEMONSTRATE UNCORRECTABLE ERRORS DUE TO TOPOGRAPHY, VEGETATIVE COVER, AND/OR MULTIPATH SIGNAL ERROR.
2. THE ILLUSTRATED AQUATIC RESOURCE LOCATIONS ARE APPROXIMATE. THESE AREAS HAVE BEEN FLAGGED IN THE FIELD; HOWEVER, THEY HAVE NOT BEEN SURVEYED. ALTHOUGH MCGILL ASSOCIATES, P.A. (MCGILL) IS CONFIDENT IN OUR ASSESSMENT, THE US ARMY CORPS OF ENGINEERS IS THE ONLY AGENCY THAT CAN MAKE FINAL DECISIONS REGARDING JURISDICTIONAL WETLANDS AND WATERS OF THE US.
3. THIS MAP WAS PREPARED BY MCGILL USING THE BEST INFORMATION AVAILABLE TO MCGILL AT THE TIME OF PRODUCTION. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED TO DETERMINE PRECISE BOUNDARIES, ROADWAYS, PROPERTY BOUNDARY LINES, NOR LEGAL DESCRIPTIONS. THIS MAP SHALL NOT BE CONSTRUED TO BE AN OFFICIAL SURVEY OF ANY DATA DEPICTED.
4. BASE INFORMATION PROVIDED BY ROBESON COUNTY GIS.

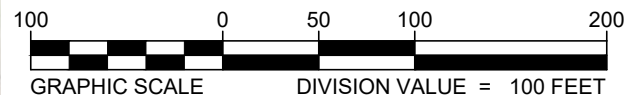
## Legend

Study Area

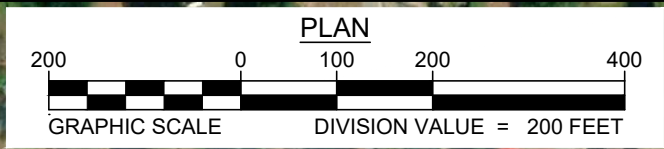
Existing Culverts

Total Jurisdictional Wetlands (3.123 ac.)

Data Point







P:\2021\21.04018-STPAULS-ELIZABETH-JOHNSON STREET STORM DRAINAGE\FIGURES\DWG PLOT DATE 2/7/2023 8:15 AM ALEX LOWDERMILK

 1240 19th Street Lane NW  
Hickory, NC 28601  
828.328.2024  
NC Firm License # C-0459  
mcgillassociates.com

DATE
2/7/2023
PROJECT #
21.04018
PROJECT MANAGER
D. SABEH

ELIZABETH-JOHNSON STREET  
STORM DRAINAGE  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

NATIONAL WETLAND  
INVENTORY MAP

FIGURE  
**4**



P:\2021\21.04018-STPAUL SNC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DESIGN\PERMITS\404-401\JL\ELIZABETH-JOHNSON ST PHOTOSHEETS.DWG PLOT DATE 10/21/2021 4:07 PM JONATHAN M. HERMAN



**Photo One: View looking northwest at Wetland A-1.**



**Photo Two: View looking north within Wetland A-1 near the wastewater treatment plant access road.**



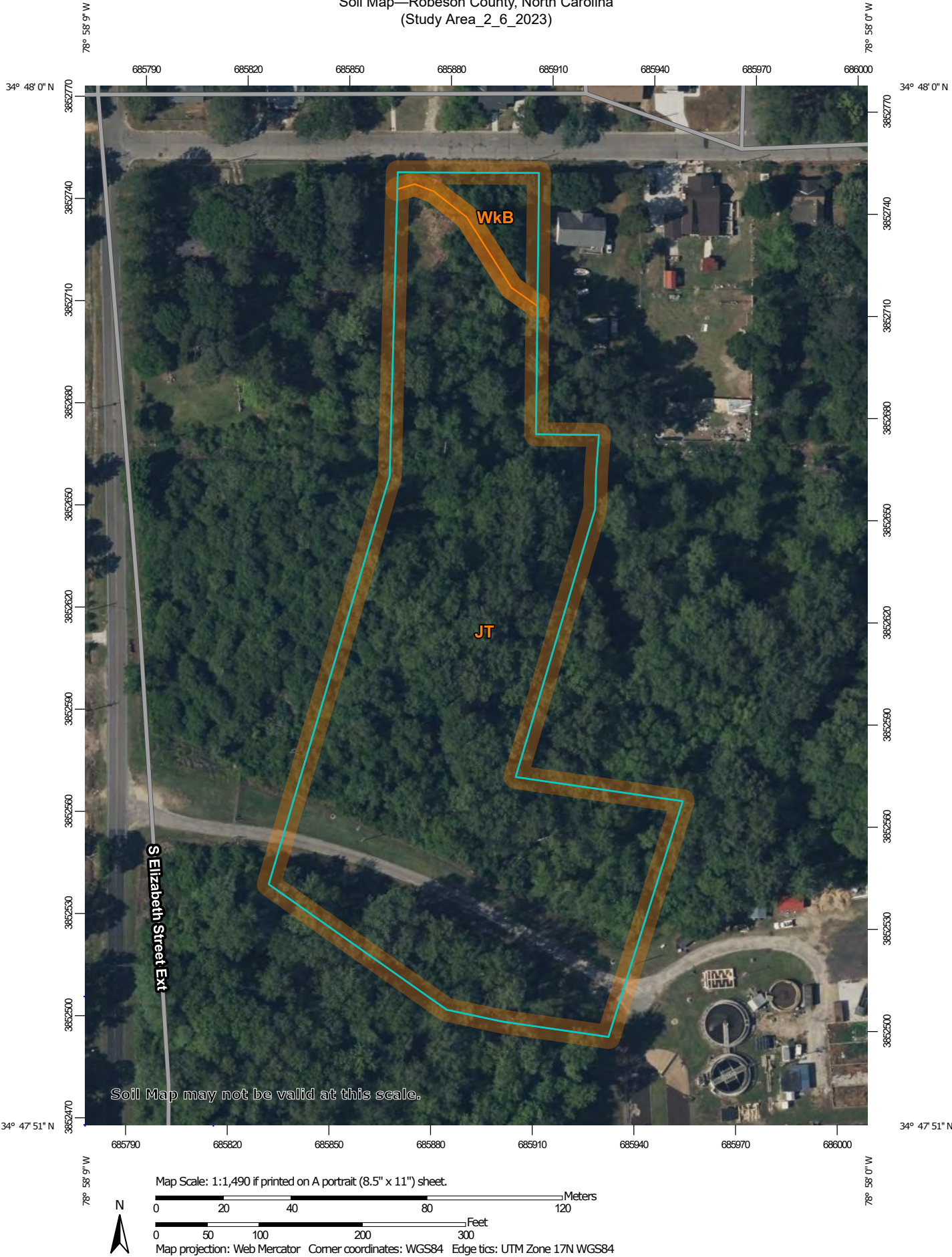
**Photo Three: View looking south at Wetland A-1 near E Ross Street.**



**Photo Four: View looking south at culvert outlet near Wetland A-2 .**



Soil Map—Robeson County, North Carolina  
(Study Area\_2\_6\_2023)





## 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: Robeson County, North Carolina

Survey Area Data: Version 21, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2022—May 15, 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
JT	Johnston soils	3.9	95.5%
WkB	Wakulla sand, 0 to 6 percent slopes	0.2	4.5%
<b>Totals for Area of Interest</b>		<b>4.0</b>	<b>100.0%</b>

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region</b> 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: Elizabeth-Johnson Street Storm Drainage City/County: Robeson Sampling Date: 10/13/21

Applicant/Owner: Town of St. Pauls State: NC Sampling Point: WA-IN

Investigator(s): Jonathan Herman Section, Township, Range: \_\_\_\_\_

Landform (hillside, terrace, etc.): floodplain/tread Local relief (concave, convex, none): Flat Slope (%): 1

Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_

Soil Map Unit Name: Johnston (JT) NWI classification: PFO1C

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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____
Remarks:	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators</u> (minimum of one is required; check all that apply)	<u>Secondary Indicators</u> (minimum of two required)
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Surface Water (A1)  <input type="checkbox"/> High Water Table (A2)  <input checked="" type="checkbox"/> Saturation (A3)  <input type="checkbox"/> Water Marks (B1)  <input type="checkbox"/> Sediment Deposits (B2)  <input type="checkbox"/> Drift Deposits (B3)  <input type="checkbox"/> Algal Mat or Crust (B4)  <input type="checkbox"/> Iron Deposits (B5)  <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)  <input checked="" type="checkbox"/> Water-Stained Leaves (B9)           </div> <div style="width: 50%;"> <input type="checkbox"/> Aquatic Fauna (B13)  <input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b>  <input type="checkbox"/> Hydrogen Sulfide Odor (C1)  <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)  <input type="checkbox"/> Presence of Reduced Iron (C4)  <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)  <input type="checkbox"/> Thin Muck Surface (C7)  <input type="checkbox"/> Other (Explain in Remarks)           </div> </div>	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum Moss (D8) <b>(LRR T, U)</b>
<b>Field Observations:</b> Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> 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: WA-IN

Tree Stratum (Plot size: <u>100</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Magnolia virginiana</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Liriodendron tulipifera</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Nyssa sylvatica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Acer rubrum</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
40 = Total Cover																				
50% of total cover: <u>20</u>		20% of total cover: <u>8</u>																		
<b>Sapling/Shrub Stratum (Plot size: <u>100</u> )</b>																				
1. <u>Ligustrum sinense</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	<b>Prevalence Index worksheet:</b> <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>50</u></td> <td>x 1 = <u>50</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>45</u></td> <td>x 3 = <u>135</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>245</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>50</u>	x 1 = <u>50</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>45</u>	x 3 = <u>135</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>245</u> (B)	Prevalence Index = B/A = <u>2.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>50</u>	x 1 = <u>50</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>45</u>	x 3 = <u>135</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u> (A)	<u>245</u> (B)																			
Prevalence Index = B/A = <u>2.04</u>																				
2. <u>Acer rubrum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Cyrilla racemiflora</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Magnolia virginiana</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
30 = Total Cover																				
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>																		
<b>Herb Stratum (Plot size: <u>100</u> )</b>																				
1. <u>Saururus cernuus</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. <u>Woodwardia areolata</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
50 = Total Cover																				
50% of total cover: <u>25</u>		20% of total cover: <u>10</u>																		
<b>Woody Vine Stratum (Plot size: _____ )</b>																				
1. _____	_____	_____	_____	<b>Definitions of Four Vegetation Strata:</b> <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody Vine</b> – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____		20% of total cover: _____																		
<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____																				

Remarks: (If observed, list morphological adaptations below.)



## SOIL

Sampling Point: WA-IN**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 2/1	100					Mucky Loam/Clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Barrier Islands 1 cm Muck (S12)
<input type="checkbox"/> Black Histic (A3)	<b>(MLRA 153B, 153D)</b>
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)	<input type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Muck Presence (A8) (LRR U)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Marl (F10) (LRR U)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)	<input checked="" type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Delta Ochric (F17) (MLRA 151)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)
<input type="checkbox"/> Polyvalue Below Surface (S8)	<b>(MLRA 149A, 153C, 153D)</b>
<b>(LRR S, T, U)</b>	<input type="checkbox"/> Very Shallow Dark Surface (F22)
	<b>(MLRA 138, 152A in FL, 154)</b>

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

<input type="checkbox"/> 1 cm Muck (A9) (LRR O)
<input type="checkbox"/> 2 cm Muck (A10) (LRR S)
<input type="checkbox"/> Coast Prairie Redox (A16)
<b>(outside MLRA 150A)</b>
<input type="checkbox"/> Reduced Vertic (F18)
<b>(outside MLRA 150A, 150B)</b>
<input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, T)
<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)
<b>(MLRA 153B)</b>
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (F22)
<b>(outside MLRA 138, 152A in FL, 154)</b>
<input type="checkbox"/> Barrier Islands Low Chroma Matrix (TS7)
<b>(MLRA 153B, 153D)</b>
<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>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 ☐

Remarks:

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region</b> 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)
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Project/Site: Elizabeth-Johnson Street Storm Drainage City/County: Robeson Sampling Date: 10/13/21

Applicant/Owner: Town of St. Pauls State: NC Sampling Point: WA-OUT

Investigator(s): Jonathan Herman Section, Township, Range: Town of St. Pauls

Landform (hillside, terrace, etc.): road embankment Local relief (concave, convex, none): Flat Slope (%): 3

Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: 34.7983 Long: -78.9685 Datum:

Soil Map Unit Name:  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 <u></u> No <u>X</u> Hydric Soil Present? Yes <u></u> No <u>X</u> Wetland Hydrology Present? Yes <u></u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u></u> No <u>X</u>
Remarks:	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <u>Surface Water (A1)</u>  <u>High Water Table (A2)</u>  <u>Saturation (A3)</u>  <u>Water Marks (B1)</u>  <u>Sediment Deposits (B2)</u>  <u>Drift Deposits (B3)</u>  <u>Algal Mat or Crust (B4)</u>  <u>Iron Deposits (B5)</u>  <u>Inundation Visible on Aerial Imagery (B7)</u>  <u>Water-Stained Leaves (B9)</u> </div> <div style="width: 50%;"> <u>Aquatic Fauna (B13)</u>  <u>Marl Deposits (B15) (LRR U)</u>  <u>Hydrogen Sulfide Odor (C1)</u>  <u>Oxidized Rhizospheres on Living Roots (C3)</u>  <u>Presence of Reduced Iron (C4)</u>  <u>Recent Iron Reduction in Tilled Soils (C6)</u>  <u>Thin Muck Surface (C7)</u>  <u>Other (Explain in Remarks)</u> </div> </div>	<u>Secondary Indicators (minimum of two required)</u> <u>Surface Soil Cracks (B6)</u> <u>Sparsely Vegetated Concave Surface (B8)</u> <u>Drainage Patterns (B10)</u> <u>Moss Trim Lines (B16)</u> <u>Dry-Season Water Table (C2)</u> <u>Crayfish Burrows (C8)</u> <u>Saturation Visible on Aerial Imagery (C9)</u> <u>Geomorphic Position (D2)</u> <u>Shallow Aquitard (D3)</u> <u>FAC-Neutral Test (D5)</u> <u>Sphagnum Moss (D8) (LRR T, U)</u>
<b>Field Observations:</b> Surface Water Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> Water Table Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> Saturation Present? Yes <u></u> No <u>X</u> Depth (inches): <u></u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u></u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks:	

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: WA-OUT

Tree Stratum (Plot size: <u>10</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
=Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: <u>10</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
=Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>10</u> )																				
1. <i>Festuca rubra</i>	70	Yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>    </u> 2 - Dominance Test is >50% <u>    </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. <i>Elymus repens</i>	30	Yes	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
100 =Total Cover																				
50% of total cover: <u>50</u> 20% of total cover: <u>20</u>																				
Woody Vine Stratum (Plot size: <u>10</u> )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (If observed, list morphological adaptations below.)																				

**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           No X

## SOIL

Sampling Point: WA-OUT

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/2	100					Sandy	
6-12	10YR 6/3	100					Sandy	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Thin Dark Surface (S9) <b>(LRR S, T, U)</b>			<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR O)</b>		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Barrier Islands 1 cm Muck (S12)			<input type="checkbox"/> 2 cm Muck (A10) <b>(LRR S)</b>		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>			<input type="checkbox"/> Coast Prairie Redox (A16)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(LRR O)</b>			<input type="checkbox"/> <b>(outside MLRA 150A)</b>		
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Reduced Vertic (F18)		
<input type="checkbox"/> Organic Bodies (A6) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Depleted Matrix (F3)			<input type="checkbox"/> <b>(outside MLRA 150A, 150B)</b>		
<input type="checkbox"/> 5 cm Mucky Mineral (A7) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Redox Dark Surface (F6)			<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(LRR P, T)</b>		
<input type="checkbox"/> Muck Presence (A8) <b>(LRR U)</b>			<input type="checkbox"/> Depleted Dark Surface (F7)			<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)		
<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR P, T)</b>			<input type="checkbox"/> Redox Depressions (F8)			<input type="checkbox"/> <b>(MLRA 153B)</b>		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Marl (F10) <b>(LRR U)</b>			<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Ochric (F11) <b>(MLRA 151)</b>			<input type="checkbox"/> Very Shallow Dark Surface (F22)		
<input type="checkbox"/> Coast Prairie Redox (A16) <b>(MLRA 150A)</b>			<input type="checkbox"/> Iron-Manganese Masses (F12) <b>(LRR O, P, T)</b>			<input type="checkbox"/> <b>(outside MLRA 138, 152A in FL, 154)</b>		
<input type="checkbox"/> Sandy Mucky Mineral (S1) <b>(LRR O, S)</b>			<input type="checkbox"/> Umbric Surface (F13) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Barrier Islands Low Chroma Matrix (TS7)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Delta Ochric (F17) <b>(MLRA 151)</b>			<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>		
<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Reduced Vertic (F18) <b>(MLRA 150A, 150B)</b>			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b>					
<input type="checkbox"/> Dark Surface (S7) <b>(LRR P, S, T, U)</b>			<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)					
<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> <b>(MLRA 149A, 153C, 153D)</b>					
<input type="checkbox"/> <b>(LRR S, T, U)</b>			<input type="checkbox"/> Very Shallow Dark Surface (F22)					
			<input type="checkbox"/> <b>(MLRA 138, 152A in FL, 154)</b>					
<b>Restrictive Layer (if observed):</b>								
Type: _____								
Depth (inches): _____								
						<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:								



## **APPENDIX 2**

- **Early Notice and Public Review of a Proposed Activity in 100-Year Floodplain and 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 A 100-YEAR FLOODPLAIN AND WETLAND**

#### **TOWN OF ST. PAULS FLOOD IMPROVEMENTS SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384**

**JUNE 10, 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 St. Pauls 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 Town of St. Pauls Flood Improvements Project (“Proposed Activity”) located at South Johnson Street, East Clark Street, South Elizabeth Street; and Calvary Cornerstone Holiness Church; 400 East Ross Street; 401 East Clark Street; and Town of St. Pauls’ Waste Water Treatment Plant (WWTP) parcel in St. Pauls, Robeson County, NC 28384. NCORR is conducting an evaluation as required by Executive Orders 11988 and 11990 in accordance with HUD regulations (24 CFR Part 55) including identifying and evaluating practicable alternatives to locating the Proposed Activity in floodplain and wetlands 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 floodplain and 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 the floodplain and 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 floodplain and 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 floodplain and 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). The Proposed Activity is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town

**Mailing Address:**  
Post Office Box 110465  
Durham, NC 27709



*An Equal Opportunity Employer*

**Phone: (984) 833-5350**  
[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. The Proposed Activity entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

The Proposed Activity will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The Proposed Activity will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and USACE verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. The Class B riprap apron was designed to prevent washout at the culvert outlet. The Proposed Activity was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C).

Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. In addition, floodplains and 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. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the Proposed Activity will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. Construction will result in approximately 0.07 acres of wooded habitat loss. No additional indirect floodplain/wetland impacts or negative impacts to floodplain/wetland values are anticipated. The Proposed Activity will benefit surrounding residential areas by alleviating flooding and preventing private property damage. As conceived and designed, through a system of underground culverts, this Proposed Activity aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The Proposed Activity is not anticipated to exceed 1.5 acres of disturbance. The Proposed Activity will be completed in accordance with all applicable federal, State, and

local laws, regulations, and permit requirements and conditions including the U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, and Floodplain Development Permit.

Floodplain maps based on the FEMA Flood Insurance Rate Maps (FIRM), the USACE NWP 18 Permit Verification and Jurisdictional Determination, NWI wetlands maps, 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 June 26, 2023: Laura Hogshead, Director, NCORR, ATTN: St. Pauls Flood Improvements, P.O. Box 110465, Durham, NC 27709. Comments may also be submitted by email to [publiccomments@rebuild.nc.gov](mailto:publiccomments@rebuild.nc.gov) with “ATTN: St. Pauls Flood Improvements Comments” in the subject line.



**EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND TOWN OF ST. PAULS FLOOD IMPROVEMENTS SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384**

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***EARLY NOTICE FLOODPLAIN & WETLAND DISTRIBUTION LIST***

**TOWN OF ST. PAULS FLOOD IMPROVEMENTS**

**SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST.  
PAULS, ROBESON COUNTY, NC 28384**

Published in The Robesonian on 6/10/23, comments end 6/26/23

**FEDERAL AGENCIES**

<b>Agency</b>	<b>Name &amp; Address</b>	<b>Method</b>
<b>HUD NC</b>	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	<a href="mailto:Lenwood.E.Smith@hud.gov">Lenwood.E.Smith@hud.gov</a>
<b>FEMA, Region IV</b>	Ms. Gracia B. Szczech, Regional Administrator U.S. Dept. of Homeland Security FEMA, Region IV 3003 Chamblee Tucker Road Atlanta, GA 30341	FedEx
<b>FEMA ATTN: 11988</b>	<i>Hard copies may also be mailed to</i> Attn: 11990/NEPA Reviewer (EHP) DHS/FEMA RIV 3003 Chamblee Tucker Road Atlanta, GA 30341	<a href="mailto:FEMA-R4EHP@fema.dhs.gov">FEMA-R4EHP@fema.dhs.gov</a> with the subject line <b>REVIEW REQUEST: 11988/NEPA</b>
<b>US EPA, Region 4</b>	Mr. John Blevins, Acting Regional Administrator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	FedEx
<b>US EPA, Region 4</b>	Ms. Ntale Kajumba, NEPA Coordinator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	<a href="mailto:Kajumba.ntale@epa.gov">Kajumba.ntale@epa.gov</a>
<b>USFWS – Raleigh Field Office</b>	USFWS – Raleigh Field Office ATTN: John Ellis P.O. Box 33726 Raleigh, NC 27636 ph.: 919-856-4520, ext. 26	<a href="mailto:john_ellis@fws.gov">john_ellis@fws.gov</a> cc: <a href="mailto:leigh_mann@fws.gov">leigh_mann@fws.gov</a>

<b>TRIBES, NATIONS AND COMMUNITIES</b> (who asked to be notified)		
<b>Catawba Indian Nation</b>	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road Rock Hill, SC 29730	Does not want Notice
<b>Catawba Indian Nation</b>	Chief Bill Harris Catawba Indian Nation 996 Avenue of the Nations Rock Hill, SC 29730	Does not want Notice
<b>NC STATE AGENCIES</b>		
<b>STATE CLEARING-HOUSE</b>	Ms. Crystal Best North Carolina Department of Administration State Environmental Review Clearinghouse 1301 Mail Service Center Raleigh, North Carolina 27699-1301	<a href="mailto:State.Clearinghouse@doa.nc.gov">State.Clearinghouse@doa.nc.gov</a> <a href="mailto:crystal.best@doa.nc.gov">crystal.best@doa.nc.gov</a>
<b>LOCAL AGENCIES</b>		
<b>COUNTY</b>	Kellie Blue County Manager Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	<a href="mailto:kellie.blue@co.robeson.nc.us">kellie.blue@co.robeson.nc.us</a>
<b>COUNTY</b>	Tammy Freeman Clerk to the Board Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	<a href="mailto:tammy.freeman@co.robeson.nc.us">tammy.freeman@co.robeson.nc.us</a>
<b>COUNTY</b>	Myron Neville Director of Public Works Robeson County. NC Phone: 910-671-3488	<a href="mailto:myron.neville@co.robeson.nc.us">myron.neville@co.robeson.nc.us</a>
<b>TOWN</b>	Ms. Debra McNeil Interim Town Administrator/ Town Clerk Town of St. Pauls 210 West Blue Street St. Pauls, NC 28384 Phone: 910-865-5164	<a href="mailto:debra@stpaulsnc.gov">debra@stpaulsnc.gov</a>

## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:10 PM  
**To:** Smith, Lenwood E  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.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 a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. 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](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700



## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:11 PM  
**To:** FEMA-R4EHP@fema.dhs.gov  
**Subject:** REVIEW REQUEST: 11988/NEPA - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

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Andrea

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Environmental SME  
Community Development  
NC Office of Recovery and Resiliency  
[Andrea.L.Gievers@Rebuild.NC.Gov](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

## Gievers, Andrea

---

**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:14 PM  
**To:** Kajumba, Ntale  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

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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](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:18 PM  
**To:** john\_ellis@fws.gov  
**Cc:** Mann, Leigh  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

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[Andrea.L.Gievers@Rebuild.NC.Gov](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:20 PM  
**To:** State Clearinghouse  
**Cc:** Best, Crystal  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

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(845) 682-1700



## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:20 PM  
**To:** Blue; Kellie  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

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(845) 682-1700

## Gievers, Andrea

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**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:21 PM  
**To:** tammy.freeman@co.robeson.nc.us  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
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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](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

## Gievers, Andrea

---

**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:22 PM  
**To:** myron.neville@co.robeson.nc.us  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.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 a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

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[Andrea.L.Gievers@Rebuild.NC.Gov](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700

## Gievers, Andrea

---

**From:** Gievers, Andrea  
**Sent:** Friday, June 9, 2023 1:23 PM  
**To:** Mcneill, Debra  
**Subject:** Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC  
**Attachments:** NCORR Early Notice St. Pauls Flood Imp 6.10.23.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 a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* 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](mailto:Andrea.L.Gievers@Rebuild.NC.Gov)  
(845) 682-1700



**1 From Please print and press hard.**

Date **6/9/23** Sender's FedEx Account Number **8950-9899-0**

Sender's Name **Andrea Gievers** Phone **845-682-1700**

Company **NCORR**

Address **123 Kings Hill Road** Dept./Floor/Suite/Room

City **Walden** State **NY** ZIP **12586**

**2 Your Internal Billing Reference** **St. Pauls - EN with Flood change**

**3 To Recipient's Name** **Mr. John Blevins** Phone ( )

Company **EPA, Region 4**

Address **980 College Station Road** Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address **Athens** State **GA** ZIP **30605-2720**

Use this line for the HOLD location address or for continuation of your shipping address.



Form ID No. **0200** Sender's Copy

**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:**

Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party

Enter FedEx Acct. No. below.

FedEx Acct. No.

Total Packages Total Weight Total Declared Value\*

lbs. \$ .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**

**FedEx Express** **NEW Package US Airbill** FedEx Tracking Number **8050 4421 7450**

**1 From Please print and press hard.**

Date **6/9/23** Sender's FedEx Account Number **8950-9899-0**

Sender's Name **Andrea Gievers** Phone **845-682-1700**

Company **NCORR**

Address **123 Kings Hill Road** Dept./Floor/Suite/Room

City **Walden** State **NY** ZIP **12586**

**2 Your Internal Billing Reference** **St. Pauls - EN with flood change**

**3 To Recipient's Name** **Ms. Gracia Szczec** Phone ( )

Company **FEMA, Region 4**

Address **3003 Chamblee Tucker Road** Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address **Athens** State **GA** ZIP **30341**

Use this line for the HOLD location address or for continuation of your shipping address.

Form ID No. **0200** Sender's Copy

**4 Express Package Service** \*To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

**NOTE: Service order has changed. Please select carefully.**

**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**

☐ SATURDAY Delivery  
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Package may be left without obtaining a signature for delivery.

☐ Direct Signature  
Someone at recipient's address may sign for delivery. **Fees 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. **Fees 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

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

**7 Payment Bill to:**

Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

FedEx Acct. No. Credit Card No.

Total Packages Total Weight Total Declared Value\*

lbs. \$ .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.

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Roy Cooper  
Governor

Pamela B. Cashwell  
Secretary

June 27, 2023

Andrea Gievers  
Town of St. Pauls  
c/o NC Department of Public Safety  
Office of Recovery and Resiliency  
Durham, NC 27709-

**Re: SCH File # 23-E-4600-0249 Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance**

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.

No comments were made during 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,

CRYSTAL BEST  
State Environmental Review Clearinghouse

#### Attachments

Mailing  
1301 Mail Service Center | Raleigh, NC 27699-1301



[ncadmin.nc.gov](http://ncadmin.nc.gov)

Location  
116 West Jones St. | Raleigh NC 27603  
984-236-0000 T

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

DEVON BORGARDT  
CLEARINGHOUSE COORDINATOR  
DEPT OF NATURAL & CULTURAL  
RESOURCE

#### Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☐ No Comment

☐ Comments Below

☒ Documents Attached

Reviewed By: DEVON BORGARDT

Date: 7/6/2023





**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.

July 3, 2023

**MEMORANDUM**

**TO:** Crystal Best [crystal.best@doa.nc.gov](mailto:crystal.best@doa.nc.gov)  
North Carolina State Clearinghouse  
Department of Administration

**FROM:** Ramona M. Bartos, Deputy  
State Historic Preservation Officer *RMB for Ramona M. Bartos*

**SUBJECT:** Flood improvements, South Johnson, East Clark, South Elizabeth and East Ross Streets, St. Pauls, Robeson County, 23-E-4600-0249, ER 23-1289

Thank you for your submission of May 26 and June 2, 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@ncdcr.gov](mailto:environmental.review@ncdcr.gov). In all future communication concerning this project, please cite the above referenced tracking number.



Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

LYN HARDISON  
CLEARINGHOUSE COORDINATOR  
DEPT OF ENVIRONMENTAL QUALITY

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: LYN HARDISON

Date: 6/22/2023

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

JINTAO WEN  
CLEARINGHOUSE COORDINATOR  
DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JINTAO WEN

Date: 6/21/2023

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

JESSICA MOSLEY  
CLEARINGHOUSE COORDINATOR  
DEPT OF TRANSPORTATION

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JESSICA MOSLEY

Date: 6/21/2023

### **APPENDIX 3**

- **Combined FONSI/NOI-RROF/ Final Notice and Public Explanation of a Proposed Activity in a 100-year Floodplain and Wetland**
- **Affidavit for Publication of Final Notice *(to be added)***
- **Distribution List to Interested Agencies, Groups and Individuals**
- **Final Notice Comments and Response *(to be added)***





# North Carolina Department of Public Safety

## Office of Recovery and Resiliency

Roy Cooper, Governor  
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

### 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 A 100-YEAR FLOODPLAIN AND WETLAND**

#### **TOWN OF ST. PAULS FLOOD IMPROVEMENTS SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384**

**July 19, 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 Section 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 Floodplain and 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 \$451,500.00 for the Town of St. Pauls Flood Improvements Project (“Proposed Activity”) located at South Johnson Street, East Clark Street, South Elizabeth Street, East Ross Street; and Calvary Cornerstone Holiness Church (Parcel ID 381404009, 0.34 acre); 400 East Ross Street (Parcel ID 38160204101, 1.3 acres); 401 East Clark Street (Parcel ID 38140401401, 0.17 acre); and Town of St. Pauls’ Waste Water Treatment Plant (WWTP) parcel (Parcel ID 212002007, Pin 30890981900, 73.92 acres) in St. Pauls, Robeson County, NC 28384. The Proposed Activity is anticipated to have a total cost of \$801,500.00 and entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in previously-

**Mailing Address:**  
Post Office Box 110465  
Durham, NC 27709



**Phone:** (984) 833-5350  
[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

*An Equal Opportunity Employer*

disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). The Proposed Activity is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. The Town has selected the Proposed Activity to assist its residents and community to be protected from future storm damage and flooding.

#### **PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND**

NCORR has conducted an evaluation as required by Executive Orders (EO) 11988 and 11990, in accordance with HUD regulations at 24 CFR 55 Subpart C Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The Proposed Activity will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The Proposed Activity will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and U.S. Army Corps of Engineers (USACE) verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. The Proposed Activity was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C). The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain and wetlands, approximately 49.37 acres and 62.2 acres respectively.

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 stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to

ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The main alternative is the “No Action” Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This Proposed Activity is critically necessary to protect the residents and community from future storm events. The “No Action” Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. In addition, floodplains and 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. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the Proposed Activity will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. Construction will result in approximately 0.07 acres of wooded habitat loss. The Proposed Activity is not anticipated to exceed 1.5 acres of disturbance. No additional indirect floodplain/wetland impacts or negative impacts to floodplain/wetland values are anticipated.

The Proposed Activity will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, as applicable, prior to commencing work: USACE Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, sedimentation and erosion control plan approval, and Floodplain Development Permit. Best Management Practices for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The Proposed Activity and site locations are the most suitable, feasible options 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 area’s flooding; and mitigation measures include erosion and sedimentation controls, permit conditions, a project design that minimizes impacts, and native plants used in site restoration.

Since the action will include modification of floodplain and new construction in wetland, EOs 11988 and 11990 require that the Proposed Activity not be supported if there are practicable alternatives to floodplain and wetland impacts. NCORR has reevaluated the alternatives to modification of floodplain and new construction in wetland, and has determined that it has no

practicable alternative. The 8-step process has been further documented in the EO 11988 Floodplain Management and EO 11990 Protection of Wetlands 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 floodplains and 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 floodplains and 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 floodplains and 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 project 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 11988 Floodplain Management 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](mailto: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 Floodplain and 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 August 3, 2023 at [publiccomments@rebuild.nc.gov](mailto:publiccomments@rebuild.nc.gov). Written comments may also be submitted by mail, in the proper format, to be received on or before August 3, 2023, and addressed to: Laura Hogshead, Director, NCORR, ATTN: St. Pauls Flood Improvements Project, P.O. Box 110465, Durham, NC 27709. All comments must be received on or before August 3, 2023 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 August 4, 2023, 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 project 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.

**Objection 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, Disaster Recovery and Special Issues Division, Office of Block Grant Assistance, U.S. Department of Housing & Urban Development, 451 7<sup>th</sup> Street SW, Washington, DC 20410, Phone: (202) 402-4649, or emailed to [disaster\\_recovery@hud.gov](mailto:disaster_recovery@hud.gov).

Laura Hogshead  
Certifying Officer  
July 19, 2023

***FONSI/NOI-RROF/FINAL NOTICE DISTRIBUTION LIST***

**TOWN OF ST. PAULS FLOOD IMPROVEMENTS**

**SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST.  
PAULS, ROBESON COUNTY, NC 28384**

Published in The Robesonian on 7/19/23, comments end 8/3/23

**FEDERAL AGENCIES**

<b>Agency</b>	<b>Name &amp; Address</b>	<b>Method</b>
<b>HUD NC</b>	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	<a href="mailto:Lenwood.E.Smith@hud.gov">Lenwood.E.Smith@hud.gov</a>
<b>FEMA, Region IV</b>	Ms. Gracia B. Szczech, Regional Administrator U.S. Dept. of Homeland Security FEMA, Region IV 3003 Chamblee Tucker Road Atlanta, GA 30341	FedEx
<b>FEMA ATTN: 11988</b>	<i>Hard copies may also be mailed to</i> Attn: 11990/NEPA Reviewer (EHP) DHS/FEMA RIV 3003 Chamblee Tucker Road Atlanta, GA 30341	<a href="mailto:FEMA-R4EHP@fema.dhs.gov">FEMA-R4EHP@fema.dhs.gov</a> with the subject line <b>REVIEW REQUEST: 11988/NEPA</b>
<b>US EPA, Region 4</b>	Ms. Ntale Kajumba, NEPA Coordinator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	<a href="mailto:Kajumba.ntale@epa.gov">Kajumba.ntale@epa.gov</a>
<b>USFWS – Raleigh Field Office</b>	USFWS – Raleigh Field Office ATTN: John Ellis P.O. Box 33726 Raleigh, NC 27636 ph.: 919-856-4520, ext. 26	<a href="mailto:john_ellis@fws.gov">john_ellis@fws.gov</a>  cc: <a href="mailto:leigh_mann@fws.gov">leigh_mann@fws.gov</a>
<b>TRIBES, NATIONS AND COMMUNITIES (who asked to be notified)</b>		
	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road	Does not want Notice

<b>Catawba Indian Nation</b>	Rock Hill, SC 29730	
<b>Catawba Indian Nation</b>	Chief Bill Harris Catawba Indian Nation 996 Avenue of the Nations Rock Hill, SC 29730	Does not want Notice
<b>NC STATE AGENCIES</b>		
<b>STATE CLEARING- HOUSE</b>	Ms. Crystal Best North Carolina Department of Administration State Environmental Review Clearinghouse 1301 Mail Service Center Raleigh, North Carolina 27699-1301	<a href="mailto:State.Clearinghouse@doa.nc.gov">State.Clearinghouse@doa.nc.gov</a> <a href="mailto:crystal.best@doa.nc.gov">crystal.best@doa.nc.gov</a>
<b>LOCAL AGENCIES</b>		
<b>COUNTY</b>	Kellie Blue County Manager Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	<a href="mailto:kellie.blue@co.robeson.nc.us">kellie.blue@co.robeson.nc.us</a>
<b>COUNTY</b>	Tammy Freeman Clerk to the Board Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	<a href="mailto:tammy.freeman@co.robeson.nc.us">tammy.freeman@co.robeson.nc.us</a>
<b>COUNTY</b>	Myron Neville Director of Public Works Robeson County. NC Phone: 910-671-3488	<a href="mailto:myron.neville@co.robeson.nc.us">myron.neville@co.robeson.nc.us</a>
<b>TOWN</b>	Ms. Debra McNeil Interim Town Administrator/ Town Clerk Town of St. Pauls 210 West Blue Street St. Pauls, NC 28384 Phone: 910-865-5164	<a href="mailto:debra@stpaulsnc.gov">debra@stpaulsnc.gov</a>

## **ATTACHMENT 11:**

### **Historic Preservation**

SHPO Response, NCORR SHPO Submission Package, TDAT Results, Catawba Indian Nation Response, NCORR Catawba Indian Nation Submission Packages, and Lumbee Tribe of NC Proposed Project Notification Letter





**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 3, 2023

**MEMORANDUM**

**TO:** Crystal Best [crystal.best@doa.nc.gov](mailto:crystal.best@doa.nc.gov)  
North Carolina State Clearinghouse  
Department of Administration

**FROM:** Ramona M. Bartos, Deputy  
State Historic Preservation Officer *RMB for Ramona M. Bartos*

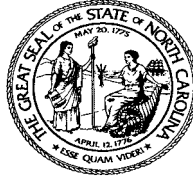
**SUBJECT:** Flood improvements, South Johnson, East Clark, South Elizabeth and East Ross Streets, St. Pauls, Robeson County, 23-E-4600-0249, ER 23-1289

Thank you for your submission of May 26 and June 2, 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@ncdcr.gov](mailto:environmental.review@ncdcr.gov). In all future communication concerning this project, please cite the above referenced tracking number.



**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.

June 2, 2022

**MEMORANDUM**

**TO:** Crystal Best  
North Carolina State Clearinghouse  
Department of Administration

[crystal.best@doa.nc.gov](mailto:crystal.best@doa.nc.gov)

**FROM:** Ramona M. Bartos, Deputy  
State Historic Preservation Officer

*RMB for Ramona M. Bartos*

**SUBJECT:** Town of St Pauls Flood Improvements, St Pauls, Robeson County, ER 22-1160

Thank you for your email of April 13, 2022, 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@ncdcr.gov](mailto:environmental.review@ncdcr.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  
Casandra Skinner Hoekstra, Interim Secretary

Laura H. Hogshead, Director

April 10, 2022

Ms. Renee Gledhill-Earley  
Environmental Review Coordinator  
NC State Historic Preservation Office  
4617 Mail Service Center  
Raleigh, NC 27699-4617

SCH Submission via email: [State.Clearinghouse@doa.nc.gov](mailto:State.Clearinghouse@doa.nc.gov)  
[crystal.best@doa.nc.gov](mailto:crystal.best@doa.nc.gov)

RE: State Historic Preservation Office Request for Concurrence  
Section 106 Review - HUD CDBG-DR Program  
**Proposed Town of St. Pauls Flood Improvements**  
South Johnson Street, East Clark Street, Elizabeth Street; *and*  
Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009  
400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101,  
401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401, and  
Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900

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 – Disaster Recovery (CDBG-DR) 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.

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as a SHPO-deemed sufficient border of the Subject Property as identified on the proposed project location maps included in **Attachment 1** for your review. The bulk of the infrastructure improvements will be undertaken within the Town streets in a developed neighborhood. On the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W),

Mailing Address:  
Post Office Box 110465  
Durham, NC 27709



Telephone: 984.833.5350  
[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

replacement of an existing, undersized stormwater catch basin with a 6'x6'x6' concrete box basin is proposed (See Subject Property photographs). Improvements include a proposed swale across from this parcel on the east side of South Johnson Street. The proposed project piping will continue beneath the Town's Wastewater Treatment Plant Access Road, where stormwater will then exit the piping system and convey into Big Marsh Swamp. Riprap armoring will be placed at the outlet at this point to prevent future erosion and scouring around the 48" RCP outlet. The main location of previously undisturbed soils is within the southern portion of the proposed project area.

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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure.

Proposed Project Description: The St. Pauls Flood Improvements project proposes to upgrade stormwater conveyance infrastructure in a southeast area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The entrance point of stormwater into Big Marsh Swamp is the border of a 177.62-acre Freshwater Forested/Shrub Wetland classified as PFO1C, per USFWS National Wetlands Inventory (NWI) Mapping.

The Town of St. Paul's proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours. The proposed project design plans and project description are included in **Attachment 2**.

We have made a Finding of "*No Historic Properties Affected*" pursuant to 36 CFR 800.4(d)(1) based on the following:

A review of the Subject Property in the National Register of Historic Places, North Carolina State Historic Preservation Office's HPOWEB, and site review performed by NCORR identified 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. The Subject Property is located in a neighborhood consisting mainly of single-family homes and the Calvary Cornerstone Holiness Church and continues to the Town of St. Pauls' parcel associated with the Town's Waste Water Treatment Plant. The Subject Property photographs are included in **Attachment 3**.



Attached for your review are copies of relevant documents supporting our finding, along with photographs and a map 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-DR on a case-by-case basis. A consultation request for the proposed project described herein is also being sent to the Catawba Indian 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 concur, please sign on the line below and return a copy of this letter by email to Andrea Gievers at [Andrea.L.Gievers@Rebuild.NC.gov](mailto: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](mailto:Andrea.L.Gievers@Rebuild.NC.gov). Thank you for your time and assistance.

Sincerely,



Andrea Gievers, JD, MSEL, ERM  
NCORR Environmental Subject Matter Expert

**Proposed St. Pauls Flood Improvements Enclosures:**

Attachment 1: Proposed Project Location, NRHP and NC HPOWEB Maps

Attachment 2: Proposed Project Site Plans and Project Description

Attachment 3: Subject Property Photographs

Concurrence:

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State Historic Preservation Officer

Date

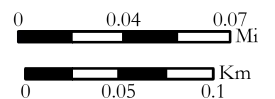
## **ATTACHMENT 1:**

### **Proposed Project Location, NRHP and NC HPOWEB Maps**



## St. Pauls Flood Improvements St. Pauls, Robeson County, NC

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US

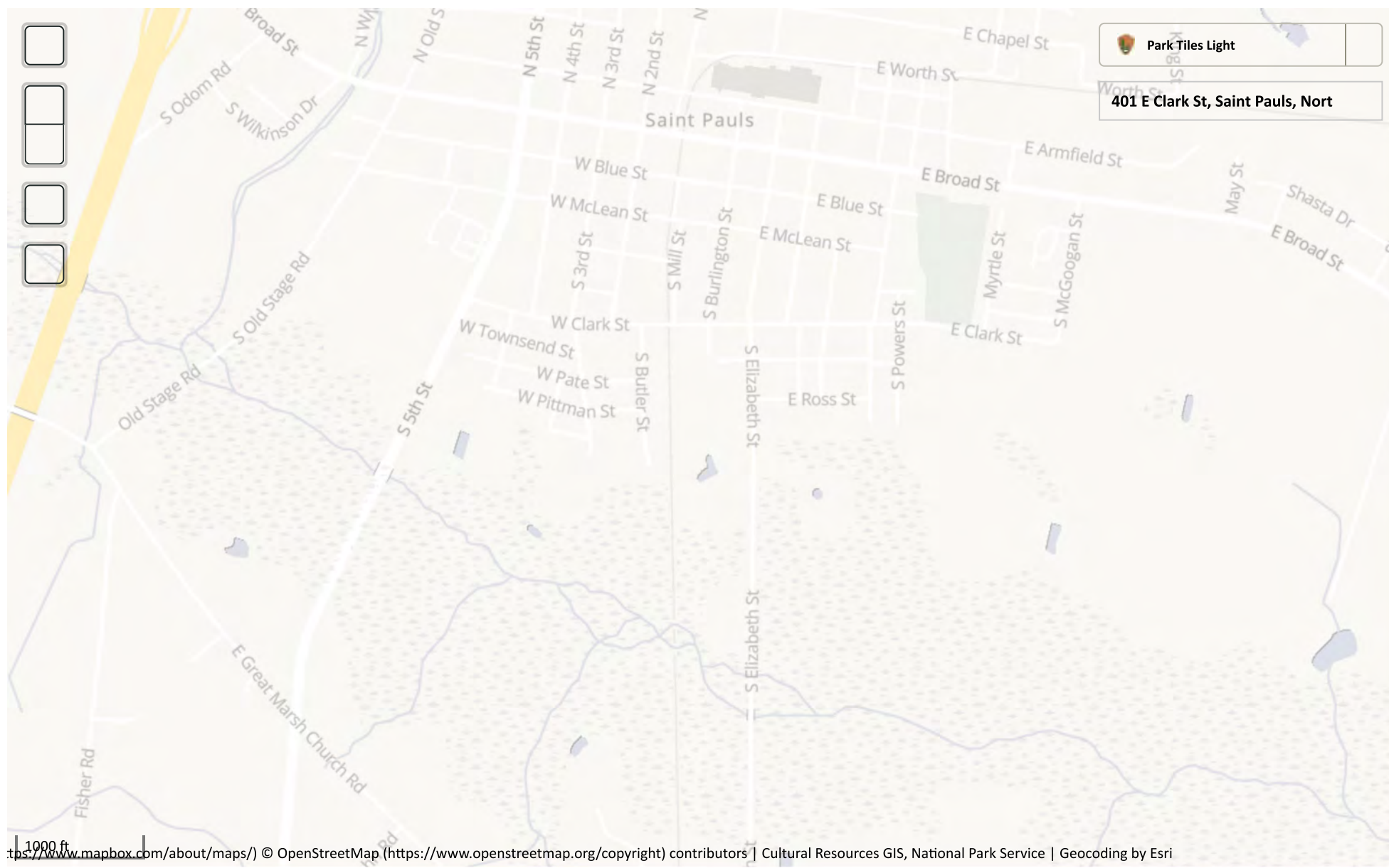




# National Register of Historic Places

National Park Service  
U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. ...








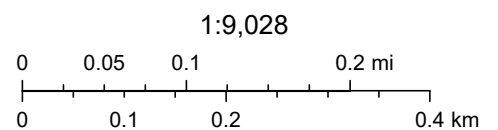
# NCHPO HPOWEB



4/7/2022, 12:47:07 PM

Surveyed Only individual resources & centerpoints

-  Surveyed Only
-  Surveyed Only, Gone
-  Counties (outline)



NC CGIA, Maxar

## **ATTACHMENT 2:**

### **Proposed Project Site Plans and Project Description**













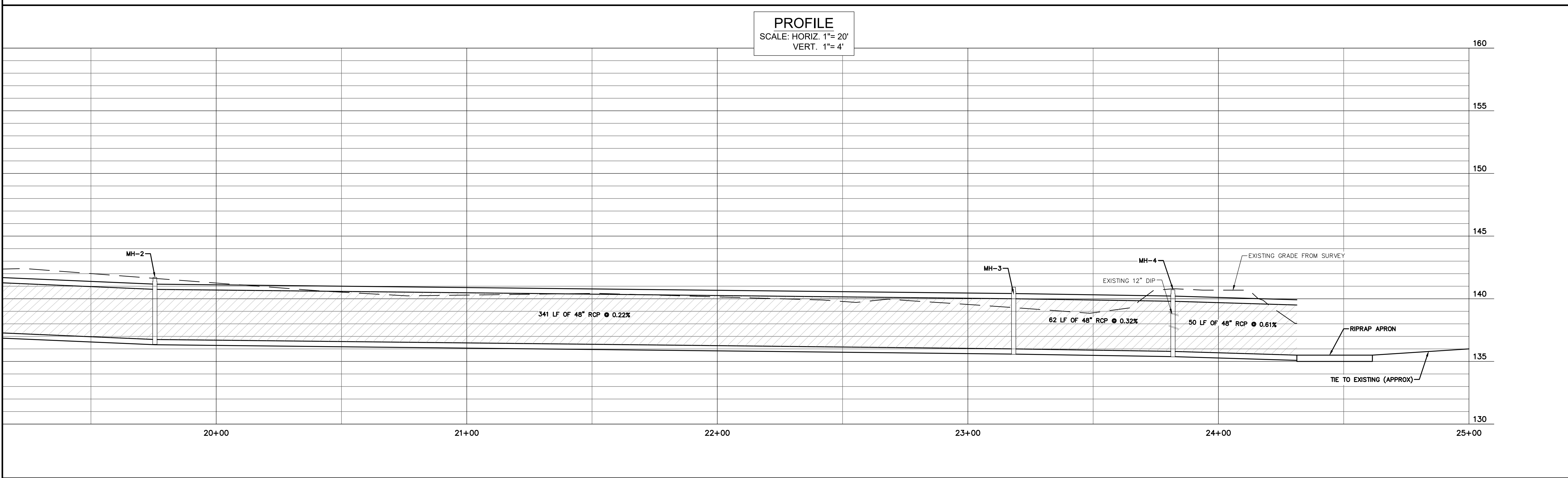
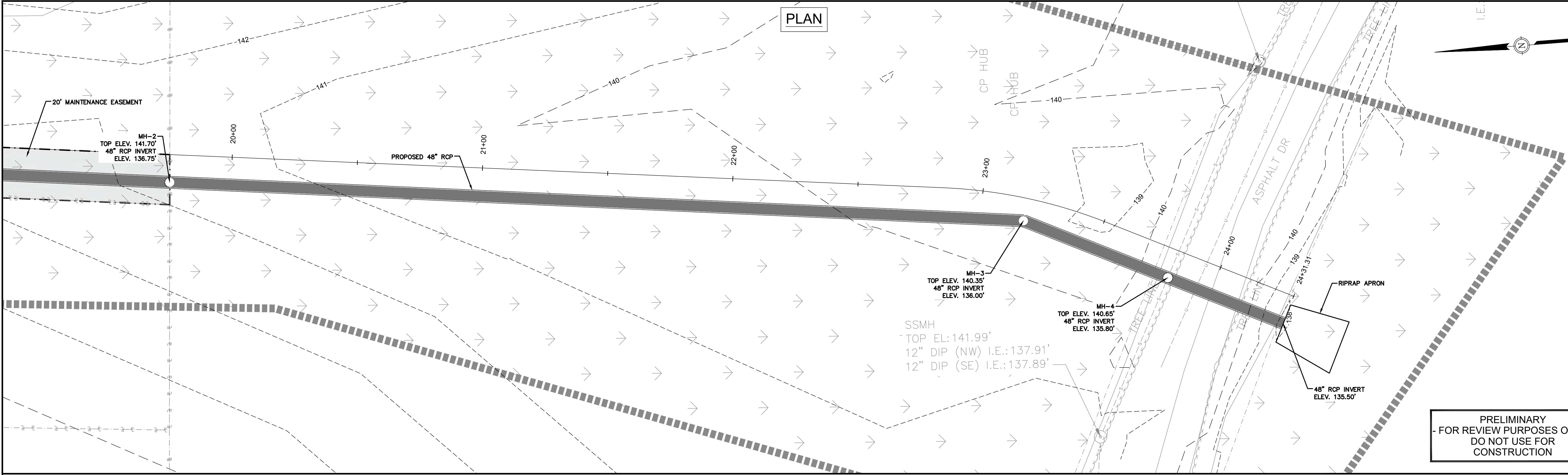












P:\2021\21.04018-ST. PAULS\NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\10-PROPOSED.DWG PLOT DATE 3/18/2022 2:15 PM CAROLINE HEATHCOAT

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

PRELIMINARY

CALL 811 BEFORE YOU DIG  
SAFE DIGGING PARTNER

NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE  
DIVISION VALUE = 20 FEET

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

DATE MARCH 2022	PROJECT # 21.04018	FUNDING # N/A
--------------------	-----------------------	------------------

SHEET  
**C-16**

## **St. Pauls Flood Improvements**

### Design Summary:

The St. Pauls Flood Improvements project proposes to upgrade stormwater conveyance infrastructure in a southeast area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The entrance point of stormwater into Big Marsh Swamp is the border of a 177.62-acre Freshwater Forested/Shrub Wetland classified as PFO1C, per USFWS National Wetlands Inventory (NWI) Mapping.

The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours.

### Project Description:

Improvements will begin with the replacement of an existing, undersized stormwater catch basin with 6'x6'x6' concrete box basin located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID # 381404009, 34°48'11.9"N 78°58'05.9"W). The replacement catch basin will collect stormwater flowing from South Elizabeth and South Johnson Streets. The catch basin will be capable of collecting stormwater in excess of a 100-year rainfall event, with a capacity of 1,540 gallons. Water levels within the catch basin will be regulated through the use of a submerged pump, which will maintain low levels in the basin. In the event of an overflow of stormwater reaching, or a backflow from connecting infrastructure, the catch basin will be equipped with a flow meter and an overflow alarm to alert Public Works personnel of such an event.

The catch basin will be attached to an underground, 48" Reinforced Concrete Box Culvert (RCP). At the outlet of the catch basin, the RCP's outer, lowest surface depth will be at 8' below surface level, resting on a prepared bed of gravel sloped at 0.75%, or,  $\frac{3}{4}$  of 1 degree. The RCP then extends from the catch basin in an easterly direction for 100 linear feet (l.f.) at the aforementioned 0.75% slope, where it will intersect with South Johnston Street, nearly to its centerline, with a bottom depth of 8', then connect to a south-running 48" RCP, also at a depth of 8'. A cast metal grate will be installed at the connection to allow for street runoff to flow directly into the culvert piping. At this point, the RCP will extend 32 l.f. south, at a depth of 8', with an increased slope of 0.78%. At this point, and throughout the remaining distance of the piping to its outlet at the south outlet of East Ross Street, the piping will be capable of conveying up to 39,630.3 gallons per minute (g.p.m.) of stormwater, at 7.03 feet per second (f.p.s.).

The RCP will continue from the last measurement, south 141 l.f., with a 0.89% slope, beginning at 8' below street level and ending at the junction of a 12" RCP, which will extend across the street in an easterly direction. This culvert, which will connect to the 48" RCP, will drain to a proposed swale on the east side of South Johnson Street, which will act as a drainage area for properties on the east side of the street. Additionally, at the point where the 48" RCP junctions with the 12" RCP, a cast metal grate will be installed at the connection to catch additional stormwater occurring on the street surface. The 48" RCP will

continue from this point southerly 157 l.f., where another cast metal grate will be installed at street level, with the bottom surface of the excavation and RCP at 9', then extend south, still in the centerline of the street another 282 l.f., with increasing slope from street level to the intersection of South Johnson Street and East Clark Street, with the bottom of the excavated area at 16'.

A large grate will be installed at the intersection of South Johnson Street and East Clark Street, and the 48" RCP will turn in the intersection to extend east-southeast, beginning in the center of intersection and extending 104 l.f. to the inside corner of East Clark Street and S. Johnson Street (a non-contiguous stretch of S. Johnson). The slope of the piping at its bottom surface will be decrease slightly to 0.71%, but at 17' below street level. It will be necessary to avoid existing natural gas lines in the street during the excavation (placed at 1.5' – 2.0' below the street surface) along East Clark Street. Two cast metal grates will be placed at the intersection of East Clark Street and South Johnson Street, at 45-degree angles to the intersection for stormwater collection.

The 48" RCP will extend south 263 l.f. in the west right-of-way of South Johnson Street, at a 0.50% slope, 14' feet below the street's surface. The RCP will cross East Stack Street with a 40' length of RCP interrupted with a maintenance access descending vertically to an opening to the pipe, then continue 315 l.f. south at 12' feet below the street surface. South Johnson Street terminates at its intersection with East Ross Street, and the piping will make a 90 degree turn to the west at the southern edge of East Ross Street. It is assumed that natural gas lines are buried at a depth of 2.5' at this point and will be marked and avoided at this point of the construction. The RCP will be installed in the Town's right-of-way and extend 70 l.f., at a depth of 10'. Curb grates will be interspersed along this length to catch stormwater.

At the end of 70 l.f., another curb drain will be installed, and the RCP will make a 90 degree turn to the south, and extend 715 l.f., 2' below ground surface, through an existing drainage ditch, with maintenance access installed at 341 l.f. from the start of the pipe section. The piping will continue beneath the **Town's Waste Water Treatment Plant Access Road**, where stormwater will then exit the piping system and convey into Big Marsh Swamp on the Town of St. Pauls' property with Robeson County Parcel ID # 30890981900. Riprap armoring will be placed at the outlet at this point to prevent future erosion and scouring around the 48" RCP outlet.

#### Construction Methodology:

Construction of the proposed improvements will involve the utilization of heavy equipment. It is anticipated that the construction will include the use of excavators, backhoes, track hoes, medium-capacity cranes, equipment transport trucks, dump trucks, bulldozers, jackhammers, powered-tampers, concrete trucks, and asphalt-laying equipment.

The work will proceed from the northernmost point of the project (Installation of catch basin at church lot) with concurrent asphalt removal in the Town streets involved in the project. Excavation, grading, and installation of pipe sections will proceed following initial excavation and will require sections of the involved streets to be closed periodically during the construction. Access to homes in the area will not be restricted given multiple ingress and egress routes through the neighborhood in which the improvements are being placed. Street use will be restored as sections of piping are installed and covered with soil stockpiles, gravel sub-base, and base and finish coats of asphalt.

All silt and sedimentation standards will be observed so as to prevent of escape of soils from the project sites into residential areas and wetlands adjacent to the sites. Construction of the project will also involve clearance of vegetation in the southern section of South Johnson Street and south of East Ross Street, per the following estimated to include:

South Johnson Street (Northern Section): None

East Clark Street: None

South Johnson Street (Southern Section): (1) 12" diameter cherry tree; (2) 10" diameter cherry trees, (1) 12" diameter Walnut tree, (1) 5" diameter maple tree, (1) 8" diameter holly tree, (1) 6" diameter dogwood shrub, (1) 6" diameter holly tree, and (1) 15" diameter cedar tree.

East Ross Street: None

Drainage Ditch (South of E. Ross Street): (1) 15" diameter cedar tree, (1) 6" diameter holly tree, (1) 6" diameter dogwood tree, (1) 8" diameter holly tree.

#### Acquisition/Easements:

This project will involve the gaining of one (1) temporary construction easement and (2) permanent easements, for future operations and maintenance of the improvements.

Easement No. 1: Temporary easement at the intersection of South Johnson Street and East Clark Street, to be used for construction access, due to the proximity of the improvements to the corner of the roads. Upon completion of construction, this area will be restored to its original condition and seeded, and control of the parcel returned to its owner.

Easement No. 2: Permanent easement on the property of Calvary Cornerstone Holiness Church. From the improvements' centerline, 20' feet on either side will be eased for the purposes of future operations and maintenance of the improvements, which will also include fencing around the installed catch basin and ancillary equipment.

Easement No. 3: Permanent easement on private property. From the improvements' centerline, 20' on either side will be eased for the purpose of future operations and maintenance of the improvements, extending from the southern edge of East Ross Street to the private property's border with Town-owned property associated with the Town's Waste Water Treatment Plant.

Historic Properties: None noted upon survey.



## **ATTACHMENT 3:**

### **Subject Property Photographs**



1. S. Johnson\_Facing West





**1A: South Johnson Street\_Facing Southeast**





2: South Johnson Street, Facing South





3. South Johnson Street, Facing East





4. South Johnson Street Culvert, Facing East





5: South Johnson Street Catch Basin, Facing West





6. South Johnson Street Catch Basin, Facing West





7: South Johnson Street/Clark Avenue Intersection, Facing WSW.  
Easement area in foreground.





**8: South Johnson Street, Facing NNW. Easement Area in Foreground**





9: South Johnson Street/Clark Avenue Intersection, Facing East





10: South Johnson Street, South of Clark Avenue, Facing South





11: South Johnson Street, South of Clark Avenue, Facing South





12: East Ross Avenue, Stormwater Catchbasin, Facing South





13: East Ross Avenue, Catchbasin/Outlet Creek Easement Area, Facing South





14: East Ross Avenue, Facing South





15: East Ross Avenue, Easement Area, Facing South





**16: Elizabeth Street, WWTP Entrance, Facing East, Proposed stormwater culvert crossing, drainage area to right.**





**17: Elizabeth Street, WWTP Entrance, Inlet Drainage Area, Facing NNE**



# Tribal Directory Assessment Information



## Contact Information for Tribes with Interests in Robeson County, North Carolina

Tribal Name					County Name		
<div> <div></div> Catawba Indian Nation </div>					Robeson		
Contact Name	Title	Mailing Address	Work Phone	Fax Number	Cell Phone	Email Address	URL
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	http://www.catawba indian.net/
Bill Harris	Chief	996 Avenue of the Nations Rock Hill, SC 29730	(803) 366-4792	(803) 327-4853		bill.harris@catawbaindian.net	http://www.catawba indian.net/

1 - 1 of 1 results

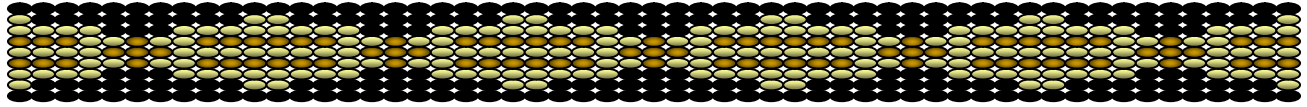
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10 ▼



Catawba Indian Nation  
Tribal Historic Preservation Office  
1536 Tom Steven Road  
Rock Hill, South Carolina 29730

Office 803-328-2427



May 13, 2022

Attention: Andrea Gievers  
NCORR – Environmental  
P.O. Box 110465  
Durham, NC 27709

Re. THPO #	TCNS #	Project Description
2022-1119-11		Proposed Town of St. Paul's Flood Improvements

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](mailto:Caitlin.Rogers@catawba.com).

Sincerely,

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

April 11, 2022

Chief Bill Harris  
Catawba Indian Nation  
996 Avenue of the Nations  
Rock Hill, SC 29730

RE: Section 106 Review - HUD CDBG-DR Program  
**Proposed Town of St. Pauls Flood Improvements**  
South Johnson Street, East Clark Street, Elizabeth Street; *and*  
Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009  
400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101,  
401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401, and  
Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900

Dear Chief Bill Harris:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) 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-DR 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



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[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

Area of Potential Effects (APE) under §800.16(d): We have defined the APE as a THPO-deemed sufficient border of the Subject Property as identified on the proposed project location maps included in **Attachment 1** for your review. The bulk of the infrastructure improvements will be undertaken within the Town streets in a developed neighborhood. On the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W), replacement of an existing, undersized stormwater catch basin with a 6'x6'x6' concrete box basin is proposed (*See* Subject Property photographs). Improvements include a proposed swale across from this parcel on the east side of South Johnson Street. The proposed project piping will continue beneath the Town's Wastewater Treatment Plant Access Road, where stormwater will then exit the piping system and convey into Big Marsh Swamp. Riprap armoring will be placed at the outlet at this point to prevent future erosion and scouring around the 48" RCP outlet. The main location of previously undisturbed soils is within the southern portion of the proposed project area.

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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure.

Proposed Project Description: The St. Pauls Flood Improvements project proposes to upgrade stormwater conveyance infrastructure in a southeastern area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The entrance point of stormwater into Big Marsh Swamp is the border of a 177.62-acre Freshwater Forested/Shrub Wetland classified as PFO1C, per USFWS National Wetlands Inventory (NWI) Mapping.

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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 performed by NCORR, 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. The results are included in **Attachment 1**.

The proposed project information has been sent to the NC SHPO in accordance with Section 106 of the NHPA and its implementing regulations, 36 CFR Part 800. The Subject Property is located in a neighborhood consisting mainly of single-family homes and the Calvary Cornerstone Holiness Church and continues to the Town of St. Pauls' parcel associated with the Town's Waste Water Treatment Plant. The Subject Property photographs are included in **Attachment 3**.

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](mailto: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](mailto:Andrea.L.Gievers@Rebuild.NC.gov). Thank you for your time and assistance.

Sincerely,



Andrea Gievers, JD, MSEL, ERM  
NCORR Environmental Subject Matter Expert

**Proposed St. Pauls Flood Improvements Enclosures:**

Attachment 1: Proposed Project Location, NRHP and NC HPOWEB Maps

Attachment 2: Proposed Project Site Plans and Project Description

Attachment 3: Subject Property Photographs

cc: Dr. Wenonah George Haire, THPO, Catawba Indian Nation, 1536 Tom Steven Road, Rock Hill, SC 29730



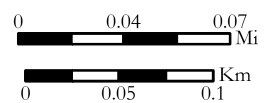
## **ATTACHMENT 1:**

### **Proposed Project Location, NRHP and NC HPOWEB Maps**



## St. Pauls Flood Improvements St. Pauls, Robeson County, NC

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US

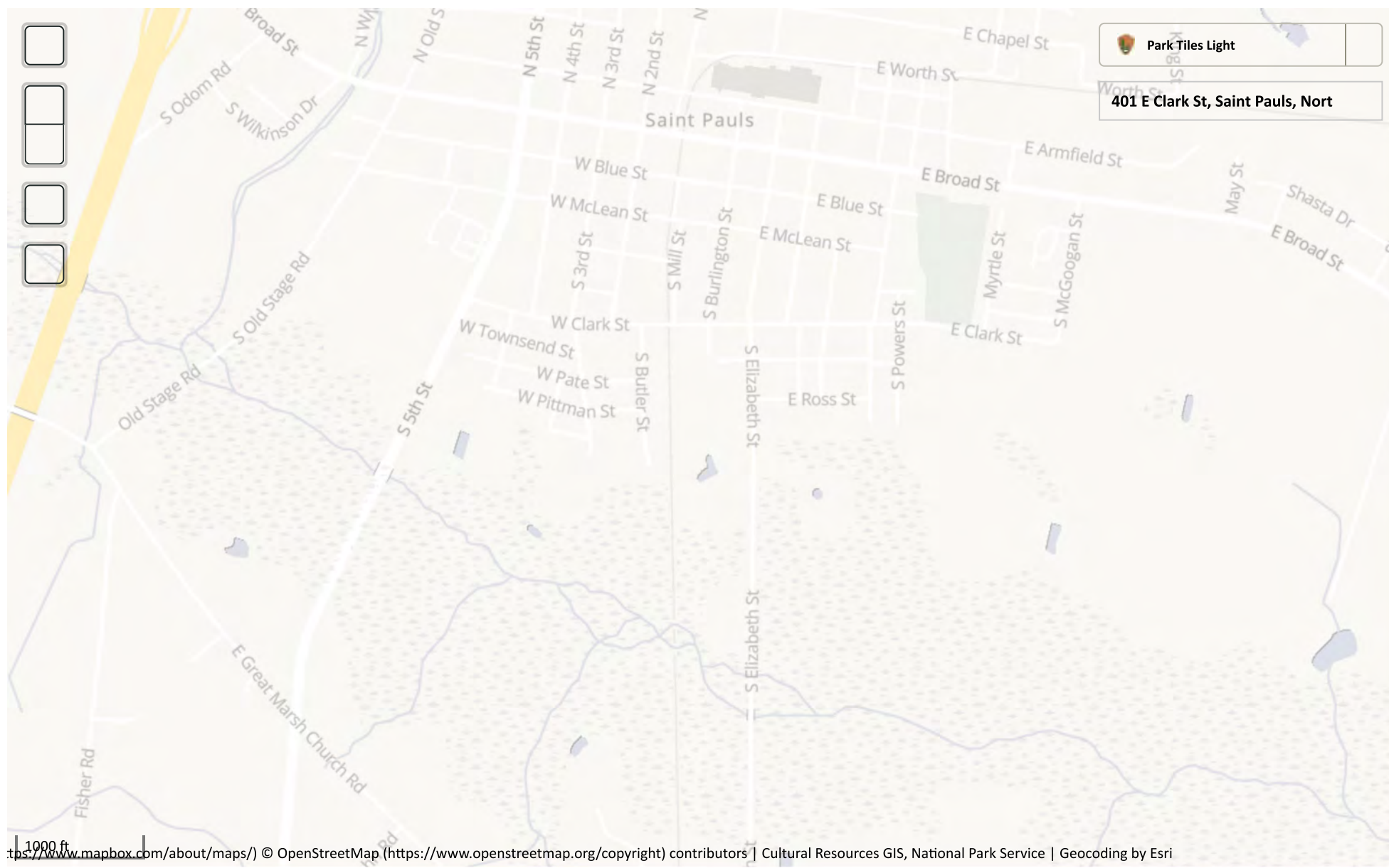




# National Register of Historic Places

National Park Service  
U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. ...








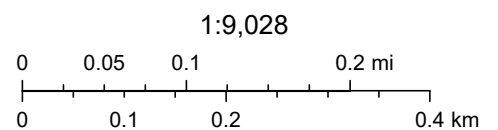
# NCHPO HPOWEB



4/7/2022, 12:47:07 PM

Surveyed Only individual resources & centerpoints

-  Surveyed Only
-  Surveyed Only, Gone
-  Counties (outline)



NC CGIA, Maxar



## **ATTACHMENT 2:**

### **Proposed Project Site Plans and Project Description**

























## **St. Pauls Flood Improvements**

### Design Summary:

The St. Pauls Flood Improvements project proposes to upgrade stormwater conveyance infrastructure in a southeast area of St. Pauls. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The entrance point of stormwater into Big Marsh Swamp is the border of a 177.62-acre Freshwater Forested/Shrub Wetland classified as PFO1C, per USFWS National Wetlands Inventory (NWI) Mapping.

The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours.

### Project Description:

Improvements will begin with the replacement of an existing, undersized stormwater catch basin with 6'x6'x6' concrete box basin located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID # 381404009, 34°48'11.9"N 78°58'05.9"W). The replacement catch basin will collect stormwater flowing from South Elizabeth and South Johnson Streets. The catch basin will be capable of collecting stormwater in excess of a 100-year rainfall event, with a capacity of 1,540 gallons. Water levels within the catch basin will be regulated through the use of a submerged pump, which will maintain low levels in the basin. In the event of an overflow of stormwater reaching, or a backflow from connecting infrastructure, the catch basin will be equipped with a flow meter and an overflow alarm to alert Public Works personnel of such an event.

The catch basin will be attached to an underground, 48" Reinforced Concrete Box Culvert (RCP). At the outlet of the catch basin, the RCP's outer, lowest surface depth will be at 8' below surface level, resting on a prepared bed of gravel sloped at 0.75%, or,  $\frac{3}{4}$  of 1 degree. The RCP then extends from the catch basin in an easterly direction for 100 linear feet (l.f.) at the aforementioned 0.75% slope, where it will intersect with South Johnston Street, nearly to its centerline, with a bottom depth of 8', then connect to a south-running 48" RCP, also at a depth of 8'. A cast metal grate will be installed at the connection to allow for street runoff to flow directly into the culvert piping. At this point, the RCP will extend 32 l.f. south, at a depth of 8', with an increased slope of 0.78%. At this point, and throughout the remaining distance of the piping to its outlet at the south outlet of East Ross Street, the piping will be capable of conveying up to 39,630.3 gallons per minute (g.p.m.) of stormwater, at 7.03 feet per second (f.p.s.).

The RCP will continue from the last measurement, south 141 l.f., with a 0.89% slope, beginning at 8' below street level and ending at the junction of a 12" RCP, which will extend across the street in an easterly direction. This culvert, which will connect to the 48" RCP, will drain to a proposed swale on the east side of South Johnson Street, which will act as a drainage area for properties on the east side of the street. Additionally, at the point where the 48" RCP junctions with the 12" RCP, a cast metal grate will be installed at the connection to catch additional stormwater occurring on the street surface. The 48" RCP will

continue from this point southerly 157 l.f., where another cast metal grate will be installed at street level, with the bottom surface of the excavation and RCP at 9', then extend south, still in the centerline of the street another 282 l.f., with increasing slope from street level to the intersection of South Johnson Street and East Clark Street, with the bottom of the excavated area at 16'.

A large grate will be installed at the intersection of South Johnson Street and East Clark Street, and the 48" RCP will turn in the intersection to extend east-southeast, beginning in the center of intersection and extending 104 l.f. to the inside corner of East Clark Street and S. Johnson Street (a non-contiguous stretch of S. Johnson). The slope of the piping at its bottom surface will be decrease slightly to 0.71%, but at 17' below street level. It will be necessary to avoid existing natural gas lines in the street during the excavation (placed at 1.5' – 2.0' below the street surface) along East Clark Street. Two cast metal grates will be placed at the intersection of East Clark Street and South Johnson Street, at 45-degree angles to the intersection for stormwater collection.

The 48" RCP will extend south 263 l.f. in the west right-of-way of South Johnson Street, at a 0.50% slope, 14' feet below the street's surface. The RCP will cross East Stack Street with a 40' length of RCP interrupted with a maintenance access descending vertically to an opening to the pipe, then continue 315 l.f. south at 12' feet below the street surface. South Johnson Street terminates at its intersection with East Ross Street, and the piping will make a 90 degree turn to the west at the southern edge of East Ross Street. It is assumed that natural gas lines are buried at a depth of 2.5' at this point and will be marked and avoided at this point of the construction. The RCP will be installed in the Town's right-of-way and extend 70 l.f., at a depth of 10'. Curb grates will be interspersed along this length to catch stormwater.

At the end of 70 l.f., another curb drain will be installed, and the RCP will make a 90 degree turn to the south, and extend 715 l.f., 2' below ground surface, through an existing drainage ditch, with maintenance access installed at 341 l.f. from the start of the pipe section. The piping will continue beneath the **Town's Waste Water Treatment Plant Access Road**, where stormwater will then exit the piping system and convey into Big Marsh Swamp on the Town of St. Pauls' property with Robeson County Parcel ID # 30890981900. Riprap armoring will be placed at the outlet at this point to prevent future erosion and scouring around the 48" RCP outlet.

#### Construction Methodology:

Construction of the proposed improvements will involve the utilization of heavy equipment. It is anticipated that the construction will include the use of excavators, backhoes, track hoes, medium-capacity cranes, equipment transport trucks, dump trucks, bulldozers, jackhammers, powered-tampers, concrete trucks, and asphalt-laying equipment.

The work will proceed from the northernmost point of the project (Installation of catch basin at church lot) with concurrent asphalt removal in the Town streets involved in the project. Excavation, grading, and installation of pipe sections will proceed following initial excavation and will require sections of the involved streets to be closed periodically during the construction. Access to homes in the area will not be restricted given multiple ingress and egress routes through the neighborhood in which the improvements are being placed. Street use will be restored as sections of piping are installed and covered with soil stockpiles, gravel sub-base, and base and finish coats of asphalt.

All silt and sedimentation standards will be observed so as to prevent of escape of soils from the project sites into residential areas and wetlands adjacent to the sites. Construction of the project will also involve clearance of vegetation in the southern section of South Johnson Street and south of East Ross Street, per the following estimated to include:

South Johnson Street (Northern Section): None

East Clark Street: None

South Johnson Street (Southern Section): (1) 12" diameter cherry tree; (2) 10" diameter cherry trees, (1) 12" diameter Walnut tree, (1) 5" diameter maple tree, (1) 8" diameter holly tree, (1) 6" diameter dogwood shrub, (1) 6" diameter holly tree, and (1) 15" diameter cedar tree.

East Ross Street: None

Drainage Ditch (South of E. Ross Street): (1) 15" diameter cedar tree, (1) 6" diameter holly tree, (1) 6" diameter dogwood tree, (1) 8" diameter holly tree.

#### Acquisition/Easements:

This project will involve the gaining of one (1) temporary construction easement and (2) permanent easements, for future operations and maintenance of the improvements.

Easement No. 1: Temporary easement at the intersection of South Johnson Street and East Clark Street, to be used for construction access, due to the proximity of the improvements to the corner of the roads. Upon completion of construction, this area will be restored to its original condition and seeded, and control of the parcel returned to its owner.

Easement No. 2: Permanent easement on the property of Calvary Cornerstone Holiness Church. From the improvements' centerline, 20' feet on either side will be eased for the purposes of future operations and maintenance of the improvements, which will also include fencing around the installed catch basin and ancillary equipment.

Easement No. 3: Permanent easement on private property. From the improvements' centerline, 20' on either side will be eased for the purpose of future operations and maintenance of the improvements, extending from the southern edge of East Ross Street to the private property's border with Town-owned property associated with the Town's Waste Water Treatment Plant.

Historic Properties: None noted upon survey.

## **ATTACHMENT 3:**

### **Subject Property Photographs**



## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS



## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS







# North Carolina Department of Public Safety

## Office of Recovery and Resiliency

Roy Cooper, Governor  
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

April 11, 2022

Dr. Wenonah George Haire  
ATTN: THPO  
Catawba Indian Nation  
1536 Tom Steven Road  
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Andrea Gievers, JD, MSEL, ERM  
NCORR Environmental Subject Matter Expert

**Proposed St. Pauls Flood Improvements Enclosures:**

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cc: Chief Bill Harris, Catawba Indian Nation, 996 Avenue of the Nations, Rock Hill, SC 29730

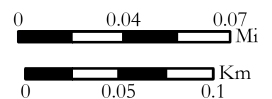
## **ATTACHMENT 1:**

### **Proposed Project Location, NRHP and NC HPOWEB Maps**



## St. Pauls Flood Improvements St. Pauls, Robeson County, NC

NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US

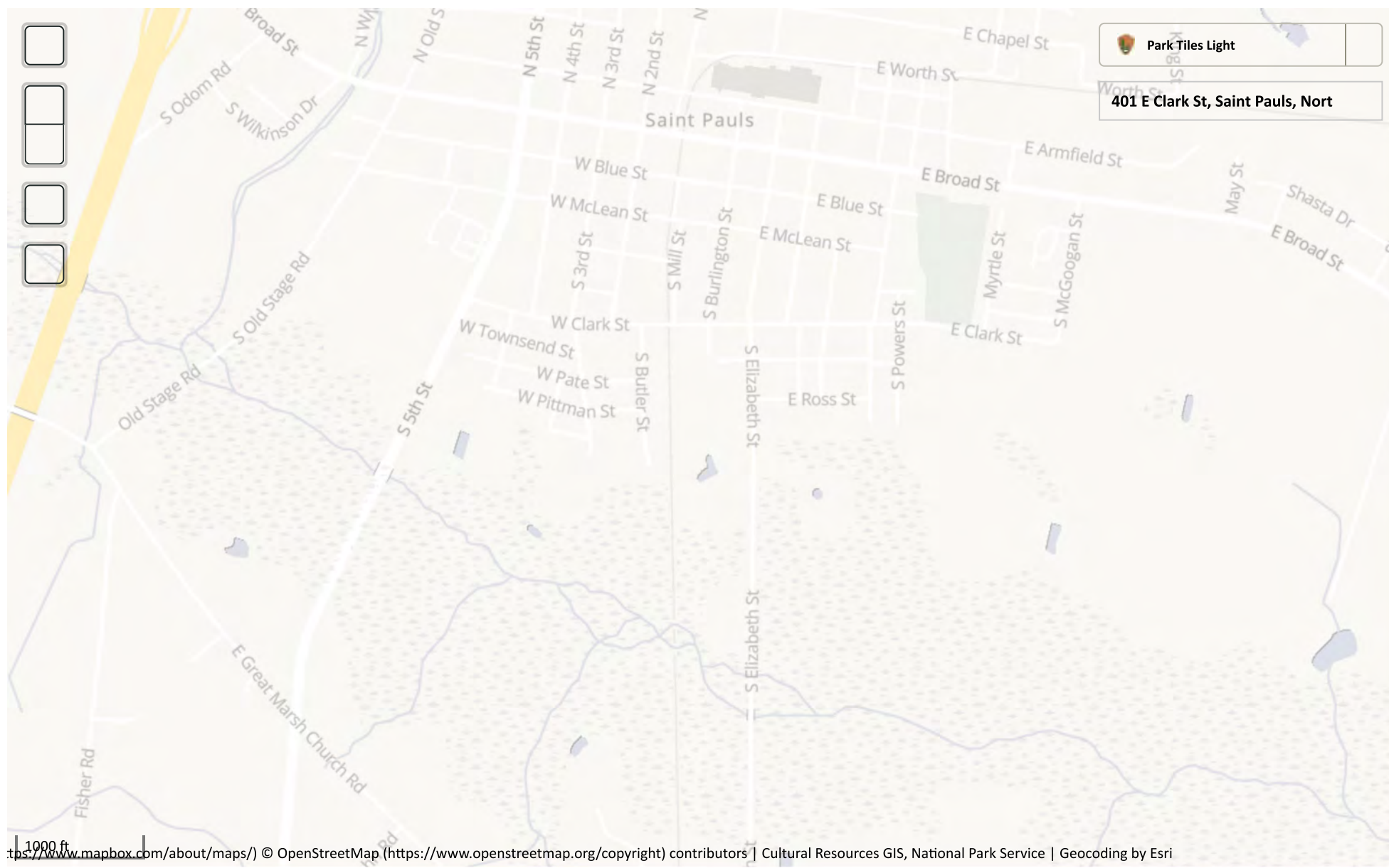




# National Register of Historic Places

National Park Service  
U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. ...








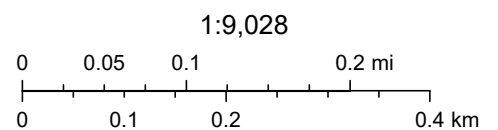
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4/7/2022, 12:47:07 PM

Surveyed Only individual resources & centerpoints

-  Surveyed Only
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-  Counties (outline)



NC CGIA, Maxar

## **ATTACHMENT 2:**

### **Proposed Project Site Plans and Project Description**



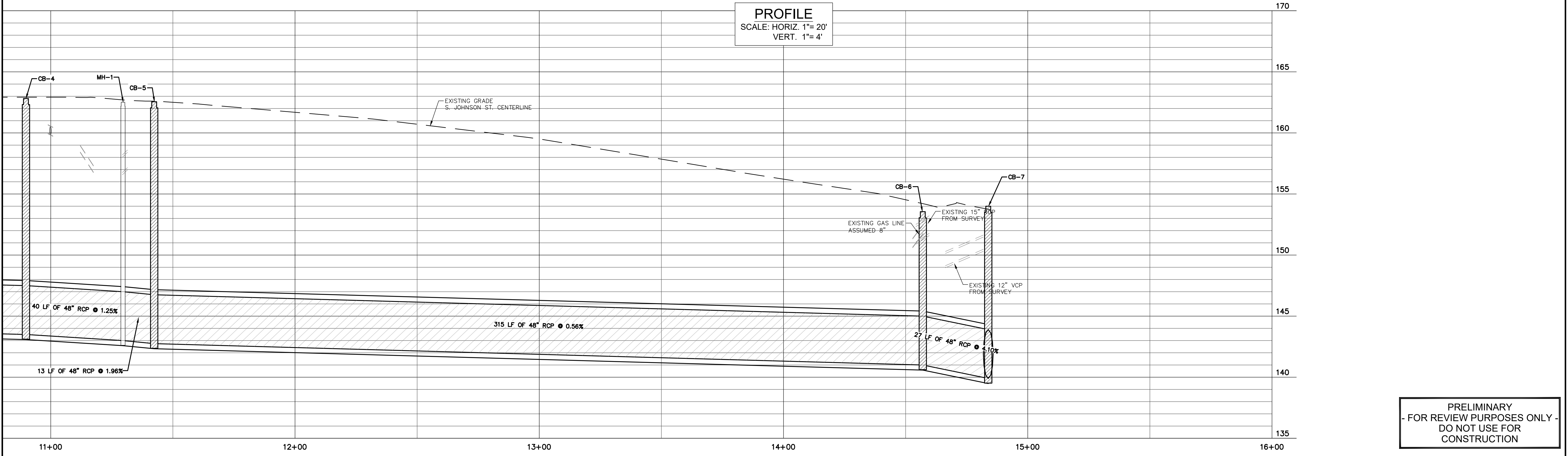
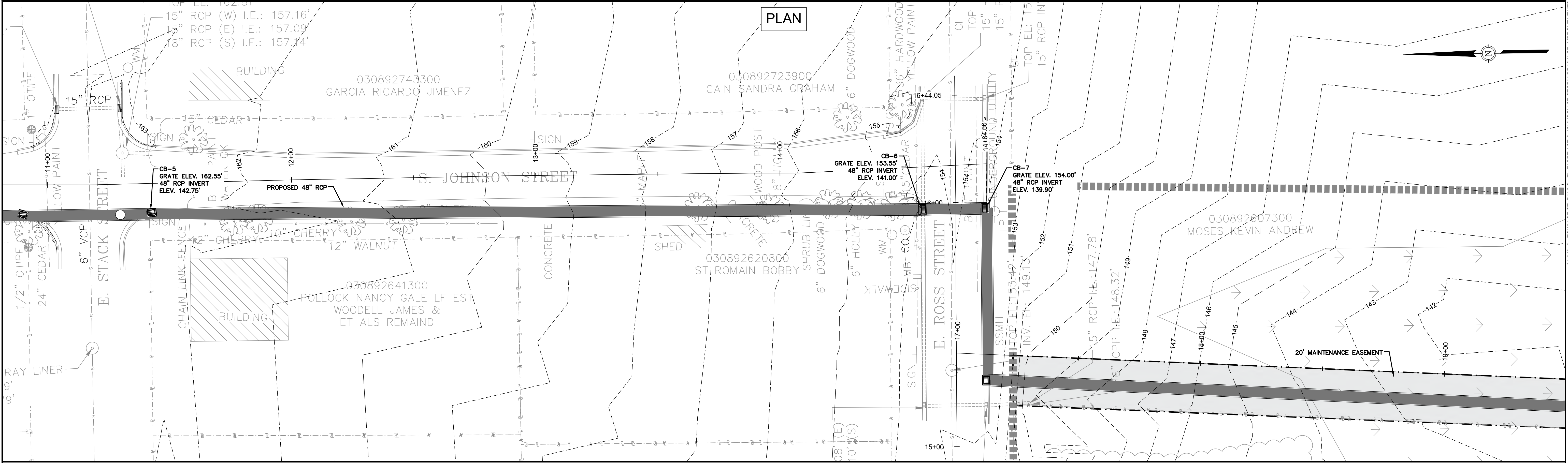














PRELIMINARY  
- FOR REVIEW PURPOSES ONLY -  
DO NOT USE FOR  
CONSTRUCTION



55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

**PRELIMINARY**



NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

GRAPHIC SCALE  
0 10 20 40  
DIVISION VALUE = 20 FEET

OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

PROPOSED PLAN AND PROFILE S.  
JOHNSON ST. STA. 13+50-15+00

DATE MARCH 2022	PROJECT # 21.04018	FUNDING # N/A
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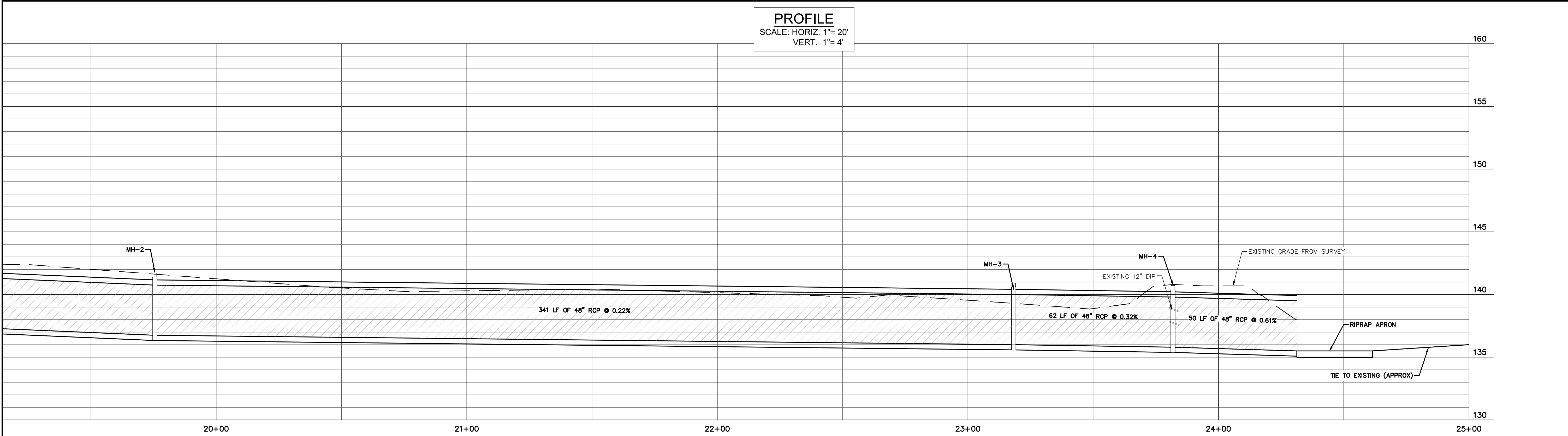
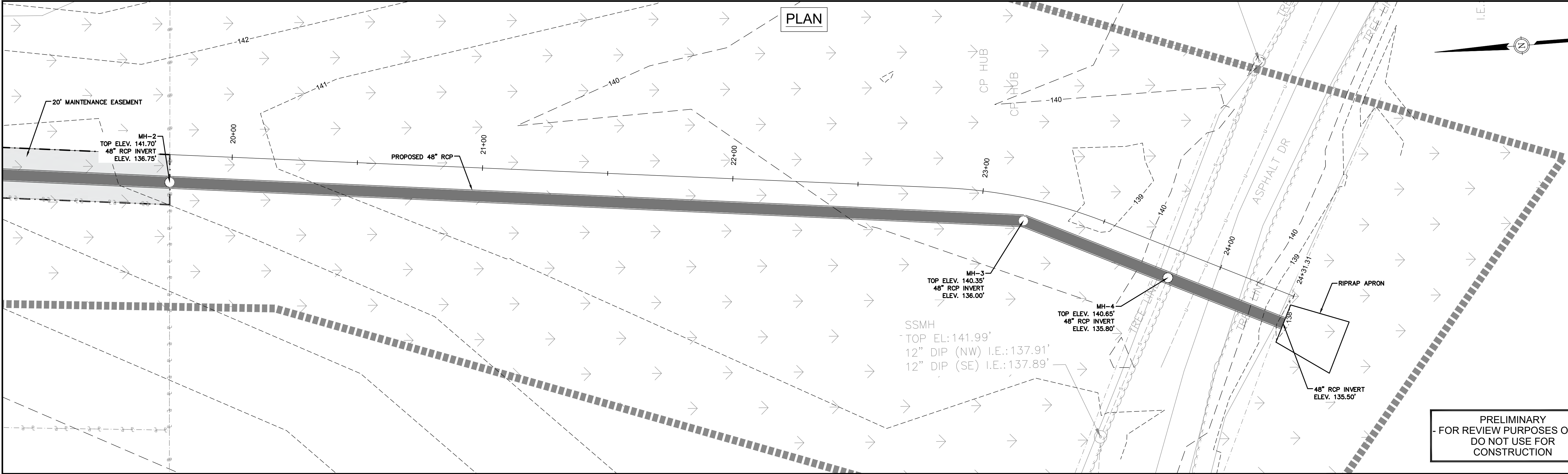
SHEET  
**C-13**











P:\2021\21.04018-ST. PAULS\NC-ELIZABETH-JOHNSON STREET STORM DRAINAGE\DRAWINGS\SHEETS\10-PROPOSED.DWG PLOT DATE 3/18/2022 2:15 PM CAROLINE HEATHCOAT

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

PRELIMINARY

CALL 811 BEFORE YOU DIG  
SAFE DIGGING PARTNER

NO.	DATE	BY	DESCRIPTION

ELIZABETH ST & JOHNSON ST  
STORM DRAINAGE IMPROVEMENTS  
**TOWN OF ST. PAULS**  
ROBESON COUNTY, NORTH CAROLINA

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OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT
PROJECT MANAGER D. SABEH	REVIEWER D. SABEH

DATE MARCH 2022	PROJECT # 21.04018	FUNDING # N/A
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SHEET  
**C-16**



## **St. Pauls Flood Improvements**

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The Town of St. Pauls proposes to install upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours.

### Project Description:

Improvements will begin with the replacement of an existing, undersized stormwater catch basin with 6'x6'x6' concrete box basin located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID # 381404009, 34°48'11.9"N 78°58'05.9"W). The replacement catch basin will collect stormwater flowing from South Elizabeth and South Johnson Streets. The catch basin will be capable of collecting stormwater in excess of a 100-year rainfall event, with a capacity of 1,540 gallons. Water levels within the catch basin will be regulated through the use of a submerged pump, which will maintain low levels in the basin. In the event of an overflow of stormwater reaching, or a backflow from connecting infrastructure, the catch basin will be equipped with a flow meter and an overflow alarm to alert Public Works personnel of such an event.

The catch basin will be attached to an underground, 48" Reinforced Concrete Box Culvert (RCP). At the outlet of the catch basin, the RCP's outer, lowest surface depth will be at 8' below surface level, resting on a prepared bed of gravel sloped at 0.75%, or,  $\frac{3}{4}$  of 1 degree. The RCP then extends from the catch basin in an easterly direction for 100 linear feet (l.f.) at the aforementioned 0.75% slope, where it will intersect with South Johnston Street, nearly to its centerline, with a bottom depth of 8', then connect to a south-running 48" RCP, also at a depth of 8'. A cast metal grate will be installed at the connection to allow for street runoff to flow directly into the culvert piping. At this point, the RCP will extend 32 l.f. south, at a depth of 8', with an increased slope of 0.78%. At this point, and throughout the remaining distance of the piping to its outlet at the south outlet of East Ross Street, the piping will be capable of conveying up to 39,630.3 gallons per minute (g.p.m.) of stormwater, at 7.03 feet per second (f.p.s.).

The RCP will continue from the last measurement, south 141 l.f., with a 0.89% slope, beginning at 8' below street level and ending at the junction of a 12" RCP, which will extend across the street in an easterly direction. This culvert, which will connect to the 48" RCP, will drain to a proposed swale on the east side of South Johnson Street, which will act as a drainage area for properties on the east side of the street. Additionally, at the point where the 48" RCP junctions with the 12" RCP, a cast metal grate will be installed at the connection to catch additional stormwater occurring on the street surface. The 48" RCP will

continue from this point southerly 157 l.f., where another cast metal grate will be installed at street level, with the bottom surface of the excavation and RCP at 9', then extend south, still in the centerline of the street another 282 l.f., with increasing slope from street level to the intersection of South Johnson Street and East Clark Street, with the bottom of the excavated area at 16'.

A large grate will be installed at the intersection of South Johnson Street and East Clark Street, and the 48" RCP will turn in the intersection to extend east-southeast, beginning in the center of intersection and extending 104 l.f. to the inside corner of East Clark Street and S. Johnson Street (a non-contiguous stretch of S. Johnson). The slope of the piping at its bottom surface will be decrease slightly to 0.71%, but at 17' below street level. It will be necessary to avoid existing natural gas lines in the street during the excavation (placed at 1.5' – 2.0' below the street surface) along East Clark Street. Two cast metal grates will be placed at the intersection of East Clark Street and South Johnson Street, at 45-degree angles to the intersection for stormwater collection.

The 48" RCP will extend south 263 l.f. in the west right-of-way of South Johnson Street, at a 0.50% slope, 14' feet below the street's surface. The RCP will cross East Stack Street with a 40' length of RCP interrupted with a maintenance access descending vertically to an opening to the pipe, then continue 315 l.f. south at 12' feet below the street surface. South Johnson Street terminates at its intersection with East Ross Street, and the piping will make a 90 degree turn to the west at the southern edge of East Ross Street. It is assumed that natural gas lines are buried at a depth of 2.5' at this point and will be marked and avoided at this point of the construction. The RCP will be installed in the Town's right-of-way and extend 70 l.f., at a depth of 10'. Curb grates will be interspersed along this length to catch stormwater.

At the end of 70 l.f., another curb drain will be installed, and the RCP will make a 90 degree turn to the south, and extend 715 l.f., 2' below ground surface, through an existing drainage ditch, with maintenance access installed at 341 l.f. from the start of the pipe section. The piping will continue beneath the **Town's Waste Water Treatment Plant Access Road**, where stormwater will then exit the piping system and convey into Big Marsh Swamp on the Town of St. Pauls' property with Robeson County Parcel ID # 30890981900. Riprap armoring will be placed at the outlet at this point to prevent future erosion and scouring around the 48" RCP outlet.

#### Construction Methodology:

Construction of the proposed improvements will involve the utilization of heavy equipment. It is anticipated that the construction will include the use of excavators, backhoes, track hoes, medium-capacity cranes, equipment transport trucks, dump trucks, bulldozers, jackhammers, powered-tampers, concrete trucks, and asphalt-laying equipment.

The work will proceed from the northernmost point of the project (Installation of catch basin at church lot) with concurrent asphalt removal in the Town streets involved in the project. Excavation, grading, and installation of pipe sections will proceed following initial excavation and will require sections of the involved streets to be closed periodically during the construction. Access to homes in the area will not be restricted given multiple ingress and egress routes through the neighborhood in which the improvements are being placed. Street use will be restored as sections of piping are installed and covered with soil stockpiles, gravel sub-base, and base and finish coats of asphalt.



All silt and sedimentation standards will be observed so as to prevent of escape of soils from the project sites into residential areas and wetlands adjacent to the sites. Construction of the project will also involve clearance of vegetation in the southern section of South Johnson Street and south of East Ross Street, per the following estimated to include:

South Johnson Street (Northern Section): None

East Clark Street: None

South Johnson Street (Southern Section): (1) 12" diameter cherry tree; (2) 10" diameter cherry trees, (1) 12" diameter Walnut tree, (1) 5" diameter maple tree, (1) 8" diameter holly tree, (1) 6" diameter dogwood shrub, (1) 6" diameter holly tree, and (1) 15" diameter cedar tree.

East Ross Street: None

Drainage Ditch (South of E. Ross Street): (1) 15" diameter cedar tree, (1) 6" diameter holly tree, (1) 6" diameter dogwood tree, (1) 8" diameter holly tree.

#### Acquisition/Easements:

This project will involve the gaining of one (1) temporary construction easement and (2) permanent easements, for future operations and maintenance of the improvements.

Easement No. 1: Temporary easement at the intersection of South Johnson Street and East Clark Street, to be used for construction access, due to the proximity of the improvements to the corner of the roads. Upon completion of construction, this area will be restored to its original condition and seeded, and control of the parcel returned to its owner.

Easement No. 2: Permanent easement on the property of Calvary Cornerstone Holiness Church. From the improvements' centerline, 20' feet on either side will be eased for the purposes of future operations and maintenance of the improvements, which will also include fencing around the installed catch basin and ancillary equipment.

Easement No. 3: Permanent easement on private property. From the improvements' centerline, 20' on either side will be eased for the purpose of future operations and maintenance of the improvements, extending from the southern edge of East Ross Street to the private property's border with Town-owned property associated with the Town's Waste Water Treatment Plant.

Historic Properties: None noted upon survey.

## **ATTACHMENT 3:**

### **Subject Property Photographs**

## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





# ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





## ST. PAULS FLOOD IMPROVEMENTS PROJECT – SITE VISIT PHOTOGRAPHS





# North Carolina Department of Public Safety

## Office of Recovery and Resiliency

Roy Cooper, Governor  
Eddie M. Buffaloe, Jr., Secretary

Laura H. Hogshead, Director

July 12, 2023

Chairman John Lowery  
Lumbee Tribe of North Carolina  
P.O. Box 2709  
Pembroke, NC 28372

RE: NCORR - HUD CDBG-MIT Program  
**Proposed Town of St. Pauls Flood Improvements**  
South Johnson Street, East Clark Street, South Elizabeth Street; *and*  
Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009;  
400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101;  
401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and  
Town of St. Pauls WWTP, South Elizabeth Street, Parcel ID 212002007.

Dear Chairman John Lowery:

The North Carolina Office of Recovery and Resiliency (NCORR) is notifying you as a representative of the Lumbee Tribe of North Carolina that an infrastructure improvement project is proposed within a potential area of interest to your Tribe. 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 project, the Town of St. Pauls Flood Improvements, located in St. Pauls, Robeson County, North Carolina 28384. 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, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. 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.

**Mailing Address:**  
Post Office Box 110465  
Durham, NC 27709



*An Equal Opportunity Employer*

**Phone: (984) 833-5350**  
[www.ncdps.gov](http://www.ncdps.gov)  
[www.rebuild.nc.gov](http://www.rebuild.nc.gov)

The proposed project is needed to address frequent flooding in an area located between Johnson Street and South Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. The proposed project entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. The proposed project will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during storm events. As conceived and designed, through a system of underground culverts, this proposed project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The proposed project is not anticipated to exceed 1.5 acres of disturbance. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions including the U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, and Floodplain Development Permit.

The proposed project has been reviewed by the NC State Historic Preservation Office (SHPO) Office of State Archaeology and the Catawba Indian Nation. We wanted to notify you directly on this proposed project.

We appreciate the support the Lumbee Tribe has provided to the efforts of ReBuild NC and look forward to a continued productive relationship as we assist North Carolinians.

Respectfully,

DocuSigned by:  
  
FF541CA0AE7E46F...

Laura H. Hogshead

## **ATTACHMENT 12:**

### **Sole Source Aquifers**

EPA Sole Source Aquifer Map



# U.S. EPA Sole Source Aquifer Map



4/17/2023, 4:12:52 PM

 Sole\_Source\_Aquifers

1:9,244,649  
0 65 130 260 mi  
0 105 210 420 km

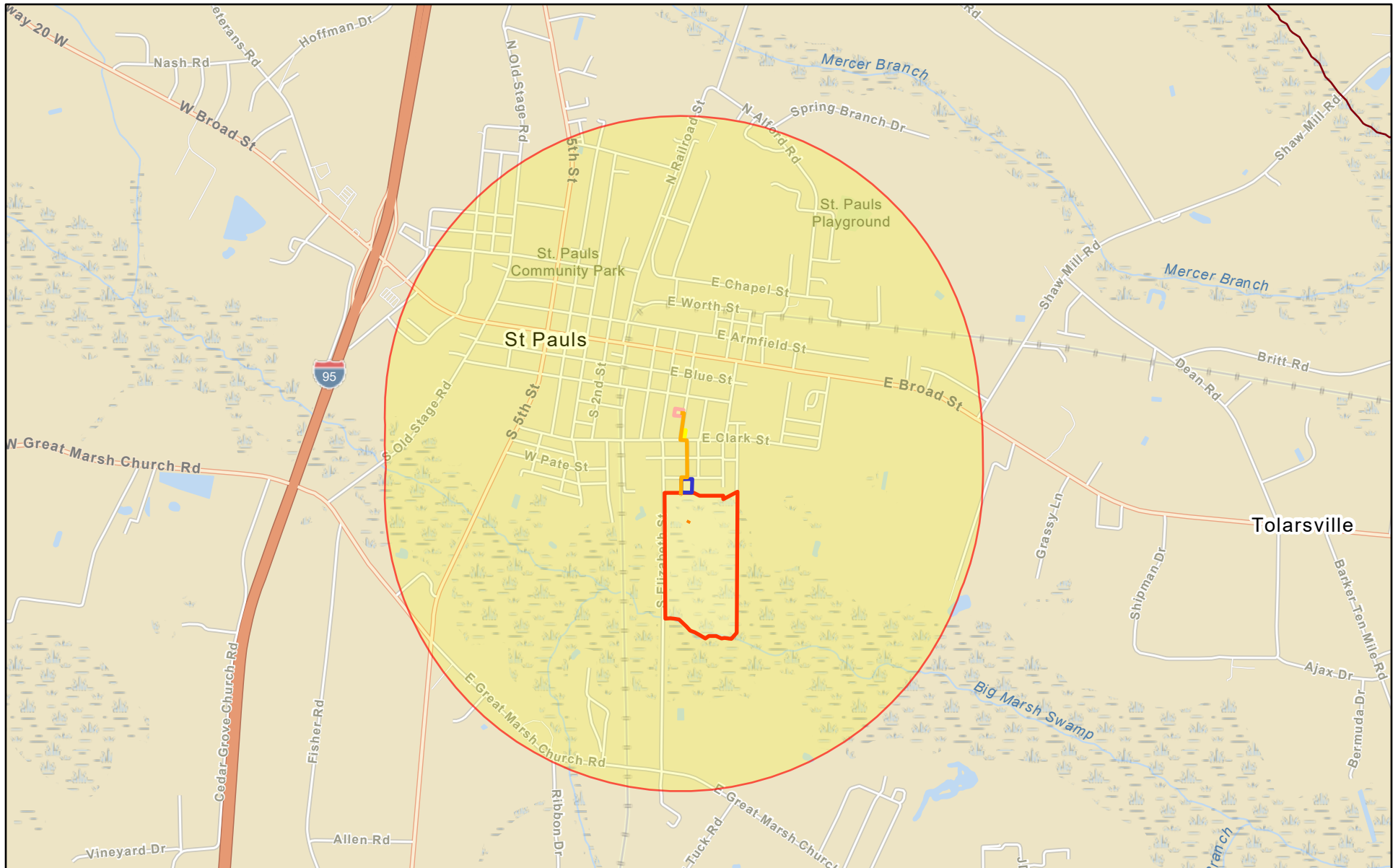
Esri, HERE, Garmin, NGA, USGS, NPS

## **ATTACHMENT 13:**

### **Wild and Scenic Rivers**

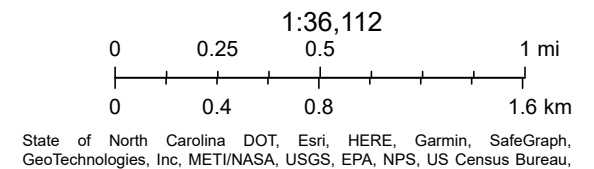
NEPA Assist Maps of DOI NPS Nationwide Rivers  
Inventory and National Wild and Scenic Rivers System  
Showing 1-mile and 2.45-mile Buffer from Proposed  
Project Site

# St. Pauls Flood Improvements - Wild Scenic Rivers Map (1-mile Buffer)

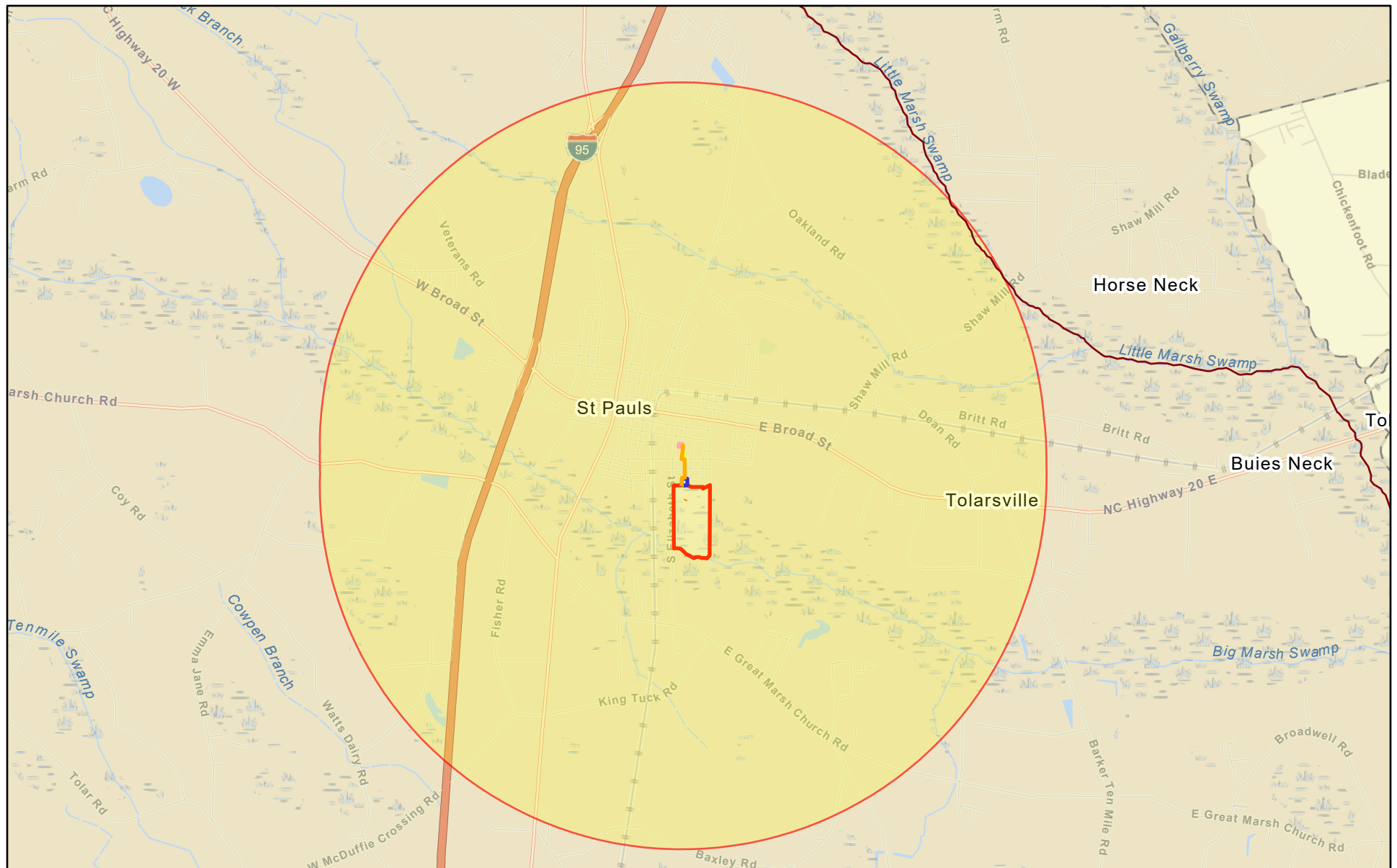


June 8, 2023

- Nationwide Rivers Inventory Official
- St. Pauls Northern Project
- Project Buffer
- Calvary Cornerstone Holiness Church
- St. Pauls' WWTP
- St. Pauls' Southern Project
- 401 East Clark Street
- 400 East Ross Street
- Wild and Scenic Rivers

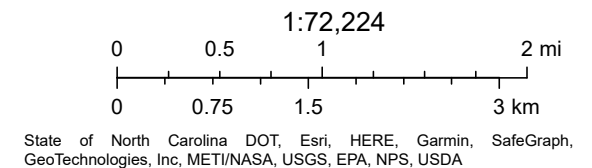


# St. Pauls Flood Improvements - Wild Scenic Rivers Map (2.45-mile Buffer)



June 8, 2023

- |   |  |   |
|---|--|---|
| <span style="color: brown;">—</span> Nationwide Rivers Inventory Official     | <span style="color: orange;">—</span> St. Pauls Northern Project                                 | <span style="border: 2px solid blue; padding: 2px;"> </span> 400 East Ross Street |
| <span style="border: 2px solid yellow; padding: 2px;"> </span> Project Buffer | <span style="border: 2px solid pink; padding: 2px;"> </span> Calvary Cornerstone Holiness Church | <span style="border: 2px solid red; padding: 2px;"> </span> St. Pauls' WWTP       |
| <span style="color: orange;">—</span> St. Pauls' Southern Project             | <span style="border: 2px solid yellow; padding: 2px;"> </span> 401 East Clark Street             | <span style="color: teal;">—</span> Wild and Scenic Rivers                        |





# 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



## Little Marsh Swamp

**Description:** Typical blackwater coastal stream with hardwood bottomland swamps that provide excellent wildlife habitat; good fishery.

**Reach:** Headwaters northeast of Dundarrach to confluence with Gallberry Swamp

**River Miles:** 19

**Outstandingly Remarkable Value:** Fish, Recreational, Scenic, Wildlife

**Year Listed/Updated:** 1982

Park Tiles Imagery

400 E Ross St, Saint Pauls, North Carolina, 28384 (External) PointAddress

National Park Service | Mapbox | OpenStreetMap contributors | Geocoding by Esri

## **ATTACHMENT 14:**

### **Environmental Justice**

1 mile Ring around the Corridor, NORTH CAROLINA, EPA Region 4

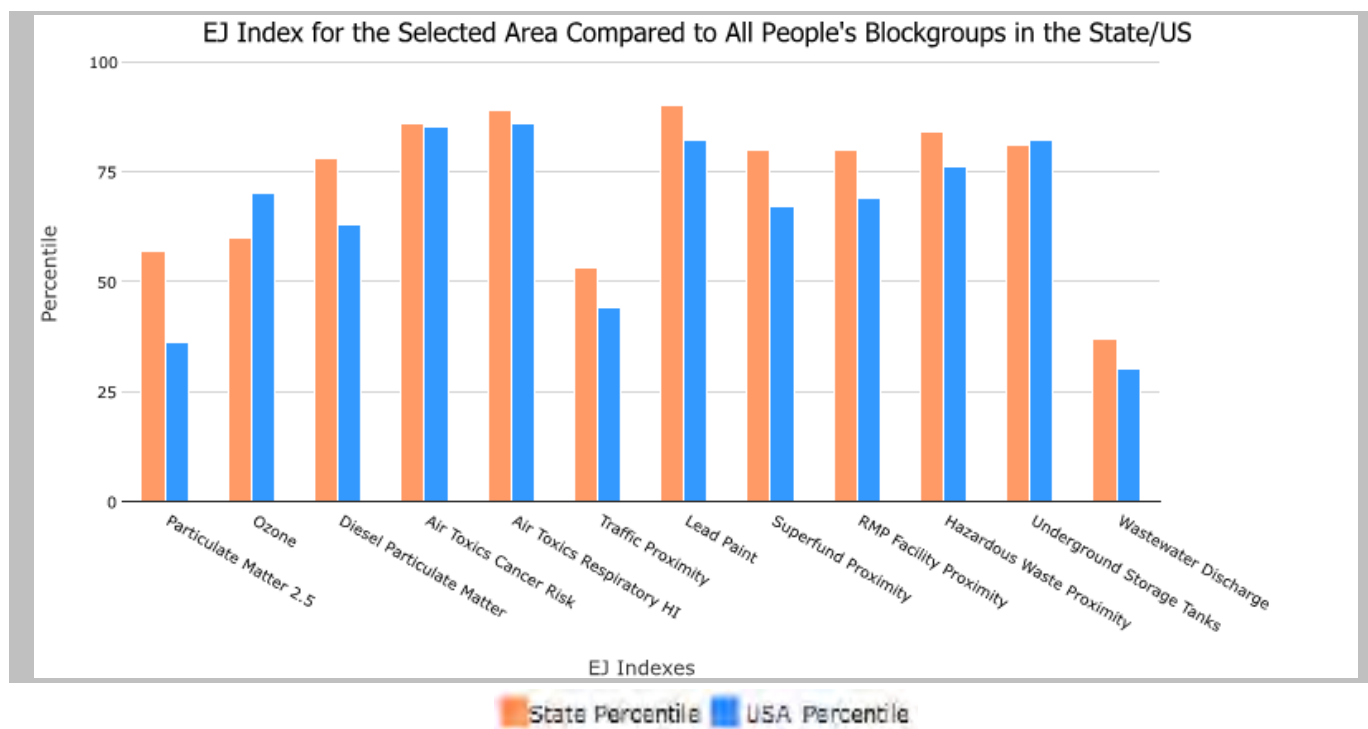
Approximate Population: 2,663

Input Area (sq. miles): 3.91

Town of St. Pauls Flood Improvements

Selected Variables	State Percentile	USA Percentile
<b>Environmental Justice Indexes</b>		
Particulate Matter 2.5 EJ index	57	36
Ozone EJ index	60	70
Diesel Particulate Matter EJ index*	78	63
Air Toxics Cancer Risk EJ index*	86	85
Air Toxics Respiratory HI EJ index*	89	86
Traffic Proximity EJ index	53	44
Lead Paint EJ index	90	82
Superfund Proximity EJ index	80	67
RMP Facility Proximity EJ index	80	69
Hazardous Waste Proximity EJ index	84	76
Underground Storage Tanks EJ index	81	82
Wastewater Discharge EJ index	37	30

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.



\*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>.

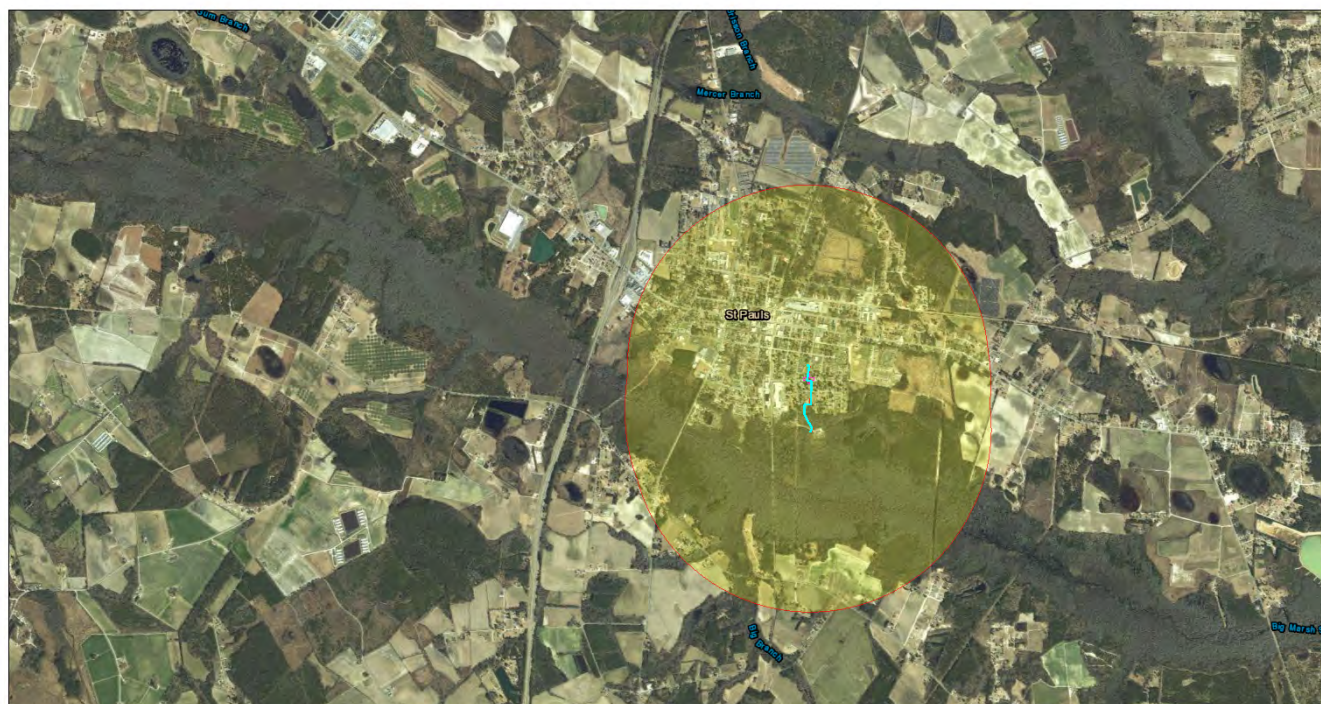


**1 mile Ring around the Corridor, NORTH CAROLINA, EPA Region 4**

**Approximate Population: 2,663**

**Input Area (sq. miles): 3.91**

**Town of St. Pauls Flood Improvements**



June 8, 2023

- Town of St. Pauls Flood Improvements
- + Search Result (point)

1:36,112  
0 0.38 0.75 1.5 mi  
0 0.5 1 2 km

State of North Carolina DOT, Esri, HERE, Garmin, NC CGIA, Maxar

#### Sites reporting to EPA

Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0



## EJScreen Report (Version 2.11)



1 mile Ring around the Corridor, NORTH CAROLINA, EPA Region 4

Approximate Population: 2,663

Input Area (sq. miles): 3.91

### Town of St. Pauls Flood Improvements

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
<b>Pollution and Sources</b>					
Particulate Matter 2.5 ( $\mu\text{g}/\text{m}^3$ )	6.93	7.67	26	8.67	12
Ozone (ppb)	40.4	41.5	26	42.5	34
Diesel Particulate Matter* ( $\mu\text{g}/\text{m}^3$ )	0.162	0.178	50	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	95	28	80-90th
Air Toxics Respiratory HI*	0.4	0.36	94	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	63	400	37	760	27
Lead Paint (% Pre-1960 Housing)	0.28	0.15	77	0.27	56
Superfund Proximity (site count/km distance)	0.037	0.08	46	0.13	34
RMP Facility Proximity (facility count/km distance)	0.23	0.41	60	0.77	42
Hazardous Waste Proximity (facility count/km distance)	0.74	0.83	66	2.2	51
Underground Storage Tanks (count/km <sup>2</sup> )	2.3	3.9	62	3.9	62
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.3E-06	0.28	16	12	10
<b>Socioeconomic Indicators</b>					
Demographic Index	61%	35%	85	35%	83
Supplemental Demographic Index	26%	15%	93	15%	90
People of Color	64%	37%	80	40%	75
Low Income	58%	33%	85	30%	86
Unemployment Rate	8%	5%	76	5%	76
Limited English Speaking Households	12%	2%	95	5%	87
Less Than High School Education	29%	11%	92	12%	90
Under Age 5	13%	6%	93	6%	92
Over Age 64	18%	16%	57	16%	59
Low Life Expectancy	23%	21%	78	20%	83

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

1 mile Ring around the Corridor, NORTH CAROLINA, EPA Region 4

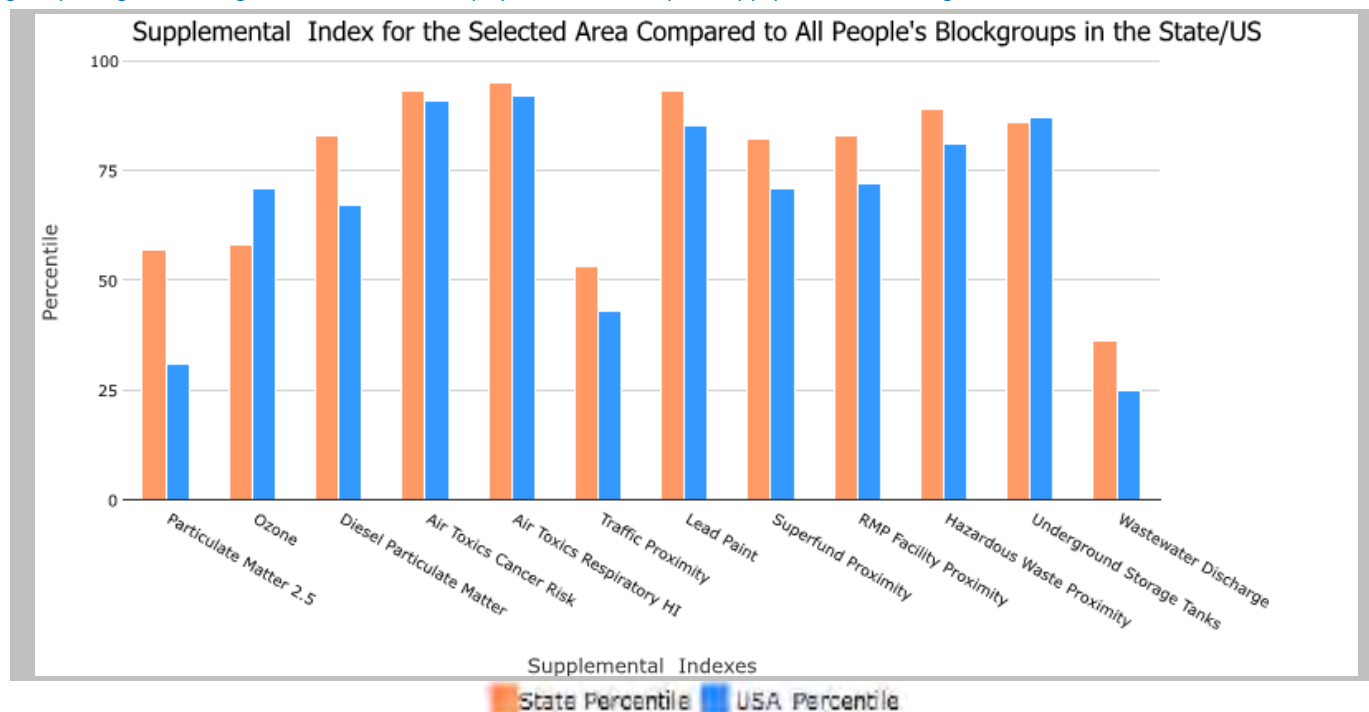
Approximate Population: 2,663

Input Area (sq. miles): 3.91

Town of St. Pauls Flood Improvements

Selected Variables	State Percentile	USA Percentile
<b>Supplemental Indexes</b>		
Particulate Matter 2.5 Supplemental Index	57	31
Ozone Supplemental Index	58	71
Diesel Particulate Matter Supplemental Index*	83	67
Air Toxics Cancer Risk Supplemental Index*	93	91
Air Toxics Respiratory HI Supplemental Index*	95	92
Traffic Proximity Supplemental Index	53	43
Lead Paint Supplemental Index	93	85
Superfund Proximity Supplemental Index	82	71
RMP Facility Proximity Supplemental Index	83	72
Hazardous Waste Proximity Supplemental Index	89	81
Underground Storage Tanks Supplemental Index	86	87
Wastewater Discharge Supplemental Index	36	25

Supplemental Indexes - The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on low-income, limited English speaking, less than high school education, unemployed, and low life expectancy populations with a single environmental indicator.



This report shows the values for environmental and demographic indicators, EJScreen indexes, and supplemental indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. For additional information, see: [www.epa.gov/environmentaljustice](http://www.epa.gov/environmentaljustice).

Location: User-specified point center at 34.802077, -78.967978

Ring (buffer): 1-miles radius

Description: St. Pauls Drainage - 1-mile buffer

Summary of ACS Estimates		2015 - 2019	
Population		2,645	
Population Density (per sq. mile)		930	
People of Color Population		1,608	
% People of Color Population		61%	
Households		966	
Housing Units		1,096	
Housing Units Built Before 1950		153	
Per Capita Income		18,320	
Land Area (sq. miles) (Source: SF1)		2.84	
% Land Area		100%	
Water Area (sq. miles) (Source: SF1)		0.01	
% Water Area		0%	
	2015 - 2019 ACS Estimates	Percent	MOE (±)
Population by Race			
Total	2,645	100%	434
Population Reporting One Race	2,573	97%	941
White	1,345	51%	229
Black	492	19%	142
American Indian	164	6%	156
Asian	7	0%	92
Pacific Islander	0	0%	12
Some Other Race	566	21%	310
Population Reporting Two or More Races	72	3%	74
Total Hispanic Population	878	33%	294
Total Non-Hispanic Population	1,767		
White Alone	1,037	39%	225
Black Alone	481	18%	142
American Indian Alone	162	6%	158
Non-Hispanic Asian Alone	7	0%	92
Pacific Islander Alone	0	0%	12
Other Race Alone	38	1%	85
Two or More Races Alone	42	2%	65
Population by Sex			
Male	1,377	52%	230
Female	1,268	48%	221
Population by Age			
Age 0-4	341	13%	120
Age 0-17	732	28%	142
Age 18+	1,914	72%	194
Age 65+	521	20%	95

**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) 2015 - 2019

Location: User-specified point center at 34.802077, -78.967978

Ring (buffer): 1-miles radius

Description: St. Pauls Drainage - 1-mile buffer

	2015 - 2019 ACS Estimates	Percent	MOE (±)
<b>Population 25+ by Educational Attainment</b>			
Total	1,708	100%	212
Less than 9th Grade	270	16%	82
9th - 12th Grade, No Diploma	239	14%	83
High School Graduate	591	35%	117
Some College, No Degree	354	21%	113
Associate Degree	140	8%	68
Bachelor's Degree or more	114	7%	65
<b>Population Age 5+ Years by Ability to Speak English</b>			
Total	2,304	100%	334
Speak only English	1,662	72%	224
Non-English at Home <sup>1+2+3+4</sup>	642	28%	144
<sup>1</sup> Speak English "very well"	315	14%	144
<sup>2</sup> Speak English "well"	99	4%	93
<sup>3</sup> Speak English "not well"	136	6%	56
<sup>4</sup> Speak English "not at all"	91	4%	59
<sup>3+4</sup> Speak English "less than well"	227	10%	80
<sup>2+3+4</sup> Speak English "less than very well"	327	14%	93
<b>Linguistically Isolated Households*</b>			
Total	106	100%	46
Speak Spanish	106	100%	44
Speak Other Indo-European Languages	0	0%	12
Speak Asian-Pacific Island Languages	0	0%	12
Speak Other Languages	0	0%	12
<b>Households by Household Income</b>			
Household Income Base	966	100%	84
< \$15,000	207	21%	48
\$15,000 - \$25,000	181	19%	50
\$25,000 - \$50,000	252	26%	82
\$50,000 - \$75,000	150	15%	66
\$75,000 +	176	18%	71
<b>Occupied Housing Units by Tenure</b>			
Total	966	100%	84
Owner Occupied	574	59%	90
Renter Occupied	392	41%	50
<b>Employed Population Age 16+ Years</b>			
Total	1,973	100%	305
In Labor Force	1,051	53%	213
Civilian Unemployed in Labor Force	95	5%	122
Not In Labor Force	923	47%	140

**Data Note:** Detail 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 point center at 34.802077, -78.967978

Ring (buffer): 1-miles radius

Description: St. Pauls Drainage - 1-mile buffer

	2015 - 2019 ACS Estimates	Percent	MOE (±)
<b>Population by Language Spoken at Home*</b>			
Total (persons age 5 and above)	1,084	100%	378
English	860	79%	322
Spanish	207	19%	273
French	0	0%	17
French Creole	N/A	N/A	N/A
Italian	N/A	N/A	N/A
Portuguese	N/A	N/A	N/A
German	0	0%	17
Yiddish	N/A	N/A	N/A
Other West Germanic	N/A	N/A	N/A
Scandinavian	N/A	N/A	N/A
Greek	N/A	N/A	N/A
Russian	N/A	N/A	N/A
Polish	N/A	N/A	N/A
Serbo-Croatian	N/A	N/A	N/A
Other Slavic	N/A	N/A	N/A
Armenian	N/A	N/A	N/A
Persian	N/A	N/A	N/A
Gujarathi	N/A	N/A	N/A
Hindi	N/A	N/A	N/A
Urdu	N/A	N/A	N/A
Other Indic	N/A	N/A	N/A
Other Indo-European	0	0%	17
Chinese	0	0%	17
Japanese	N/A	N/A	N/A
Korean	2	0%	15
Mon-Khmer, Cambodian	N/A	N/A	N/A
Hmong	N/A	N/A	N/A
Thai	N/A	N/A	N/A
Laotian	N/A	N/A	N/A
Vietnamese	0	0%	17
Other Asian	14	1%	92
Tagalog	0	0%	17
Other Pacific Island	N/A	N/A	N/A
Navajo	N/A	N/A	N/A
Other Native American	N/A	N/A	N/A
Hungarian	N/A	N/A	N/A
Arabic	0	0%	17
Hebrew	N/A	N/A	N/A
African	N/A	N/A	N/A
Other and non-specified	1	0%	8
Total Non-English	224	21%	497

**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) 2015 - 2019.

\*Population by Language Spoken at Home is available at the census tract summary level and up.

# EJSCREEN Census 2010 Summary Report



Location: User-specified point center at 34.802077, -78.967978  
 Ring (buffer): 1-miles radius  
 Description: St. Pauls Drainage - 1-mile buffer

Summary	Census 2010
Population	2,656
Population Density (per sq. mile)	934
People of Color Population	1,427
% People of Color Population	54%
Households	1,025
Housing Units	1,121
Land Area (sq. miles)	2.84
% Land Area	100%
Water Area (sq. miles)	0.01
% Water Area	0%

Population by Race	Number	Percent
Total	2,656	-----
Population Reporting One Race	2,572	97%
White	1,324	50%
Black	607	23%
American Indian	203	8%
Asian	11	0%
Pacific Islander	4	0%
Some Other Race	423	16%
Population Reporting Two or More Races	84	3%
Total Hispanic Population	575	22%
Total Non-Hispanic Population	2,081	78%
White Alone	1,229	46%
Black Alone	592	22%
American Indian Alone	193	7%
Non-Hispanic Asian Alone	9	0%
Pacific Islander Alone	3	0%
Other Race Alone	8	0%
Two or More Races Alone	47	2%

Population by Sex	Number	Percent
Male	1,342	51%
Female	1,314	49%

Population by Age	Number	Percent
Age 0-4	244	9%
Age 0-17	673	25%
Age 18+	1,983	75%
Age 65+	354	13%

Households by Tenure	Number	Percent
Total	1,025	
Owner Occupied	616	60%
Renter Occupied	409	40%

# EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

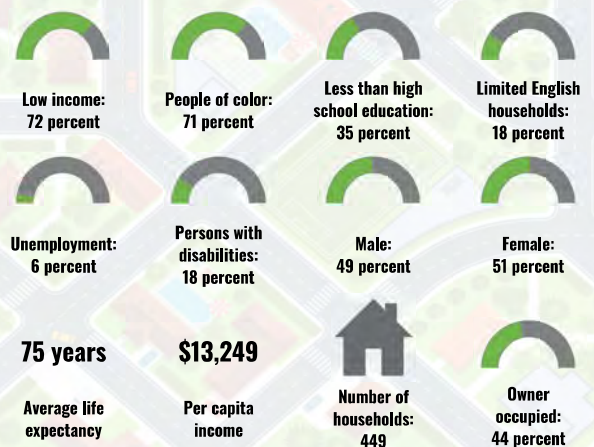
## St. Pauls, NC

the User Specified Area  
Population: 1,385  
Area in square miles: 1.31

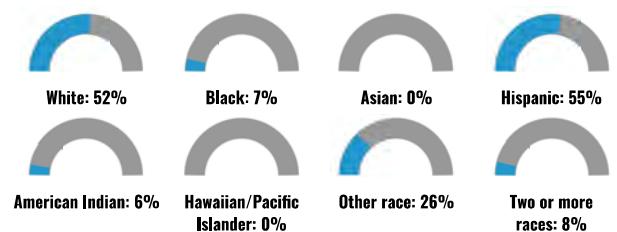


1:4,514  
0 0.04 0.08 0.16 mi  
0 0.05 0.1 0.2 km  
EPA Community Maps Contributors: State of North Carolina DOT, © GeoInformation, Inc., © ESRI, Inc., © HERE, Inc., © Mapbox, Inc., © OpenStreetMap contributors, © USGS, © EPA, © US Census Bureau, © EPA

### COMMUNITY INFORMATION



### BREAKDOWN BY RACE



### BREAKDOWN BY AGE



### LIMITED ENGLISH SPEAKING BREAKDOWN



### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	76%
Spanish	23%
Arabic	1%
Total Non-English	24%

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.

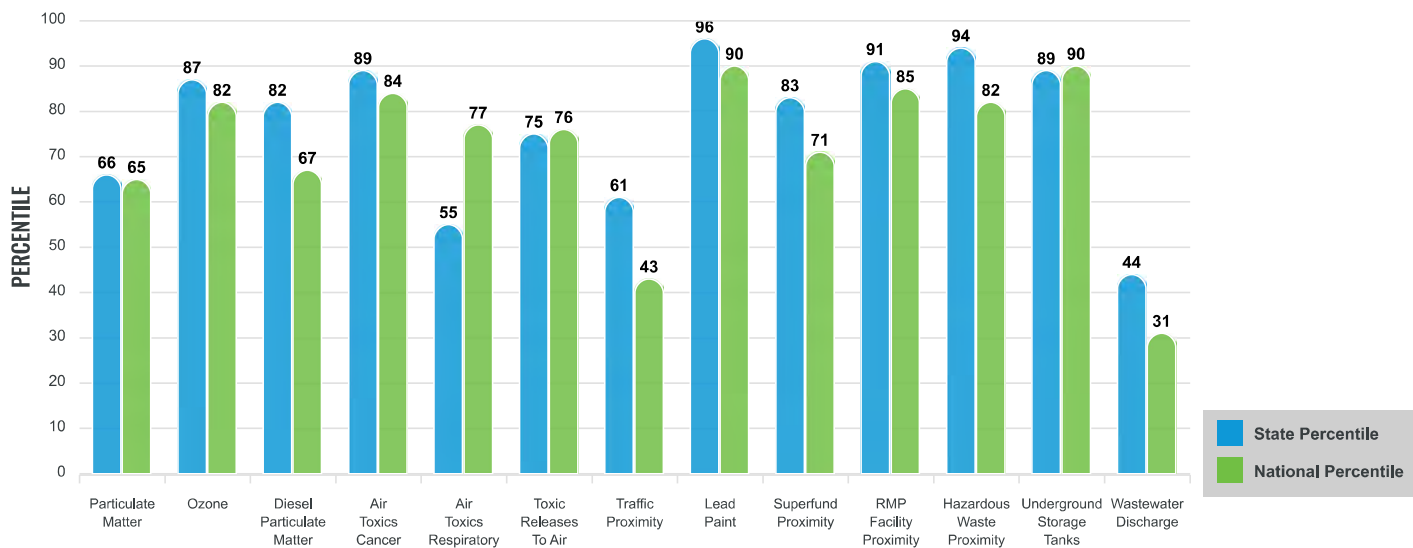
# Environmental Justice & Supplemental Indexes

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.

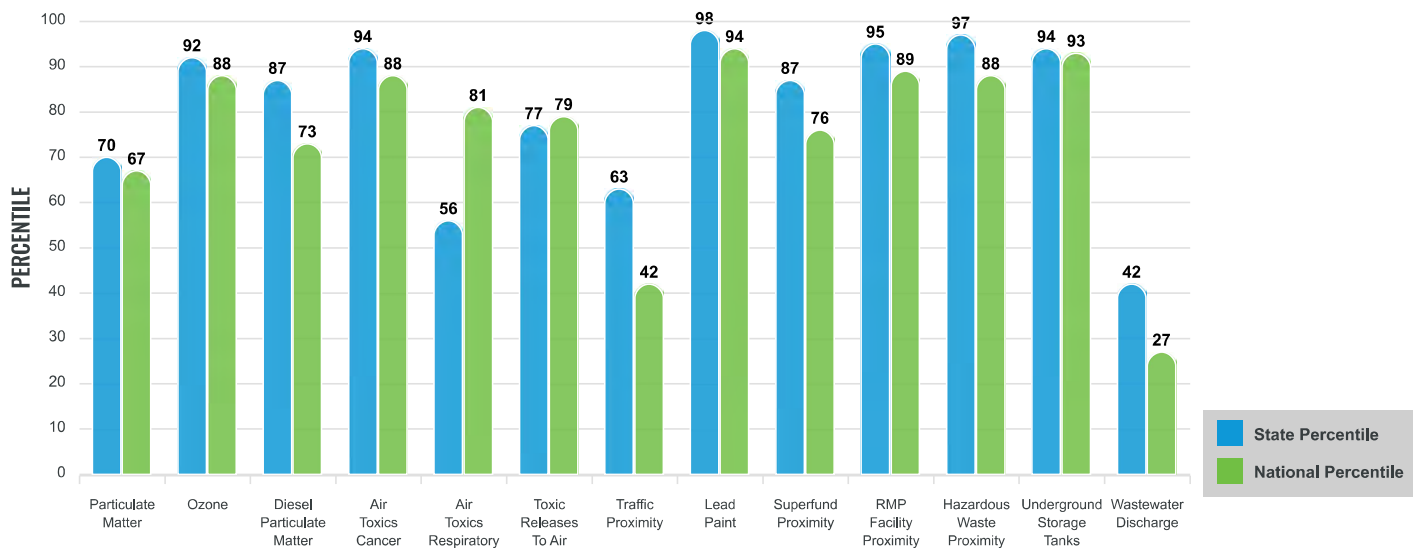
### EJ INDEXES FOR THE SELECTED LOCATION



## 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 the User Specified Area



# EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
<b>POLLUTION AND SOURCES</b>					
Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	7.28	7.8	28	8.08	27
Ozone (ppb)	61	61.7	53	61.6	49
Diesel Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	0.15	0.168	48	0.261	31
Air Toxics Cancer Risk* (lifetime risk per million)	30	28	22	28	35
Air Toxics Respiratory HI*	0.3	0.34	9	0.31	31
Toxic Releases to Air	280	3,100	34	4,600	37
Traffic Proximity (daily traffic count/distance to road)	7.8	79	25	210	14
Lead Paint (% Pre-1960 Housing)	0.4	0.17	87	0.3	66
Superfund Proximity (site count/km distance)	0.036	0.081	44	0.13	33
RMP Facility Proximity (facility count/km distance)	0.2	0.26	69	0.43	56
Hazardous Waste Proximity (facility count/km distance)	0.58	0.52	77	1.9	52
Underground Storage Tanks (count/km <sup>2</sup> )	3.4	3.9	69	3.9	69
Wastewater Discharge (toxicity-weighted concentration/m distance)	1.5E-06	0.25	16	22	9
<b>SOCIOECONOMIC INDICATORS</b>					
Demographic Index	71%	36%	92	35%	91
Supplemental Demographic Index	31%	15%	97	14%	95
People of Color	71%	37%	84	39%	78
Low Income	72%	34%	94	31%	94
Unemployment Rate	6%	6%	64	6%	63
Limited English Speaking Households	18%	2%	98	5%	92
Less Than High School Education	35%	12%	96	12%	94
Under Age 5	22%	5%	99	6%	99
Over Age 64	15%	18%	42	17%	46
Low Life Expectancy	23%	21%	78	20%	83

\*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 .....	2
Air Pollution .....	0
Brownfields .....	1
Toxic Release Inventory .....	1

## Other community features within defined area:

Schools .....	0
Hospitals .....	0
Places of Worship .....	0

## Other environmental data:

Air Non-attainment .....	No
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 the User Specified Area

# EJScreen Environmental and Socioeconomic Indicators Data

## HEALTH INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	23%	21%	78	20%	83
Heart Disease	7.9	6.5	74	6.1	83
Asthma	10.5	9.4	82	10	69
Cancer	6.2	6.2	45	6.1	50
Persons with Disabilities	18.8%	14%	79	13.4%	82

## CLIMATE INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	9%	10%	67	12%	61
Wildfire Risk	98%	9%	97	14%	94

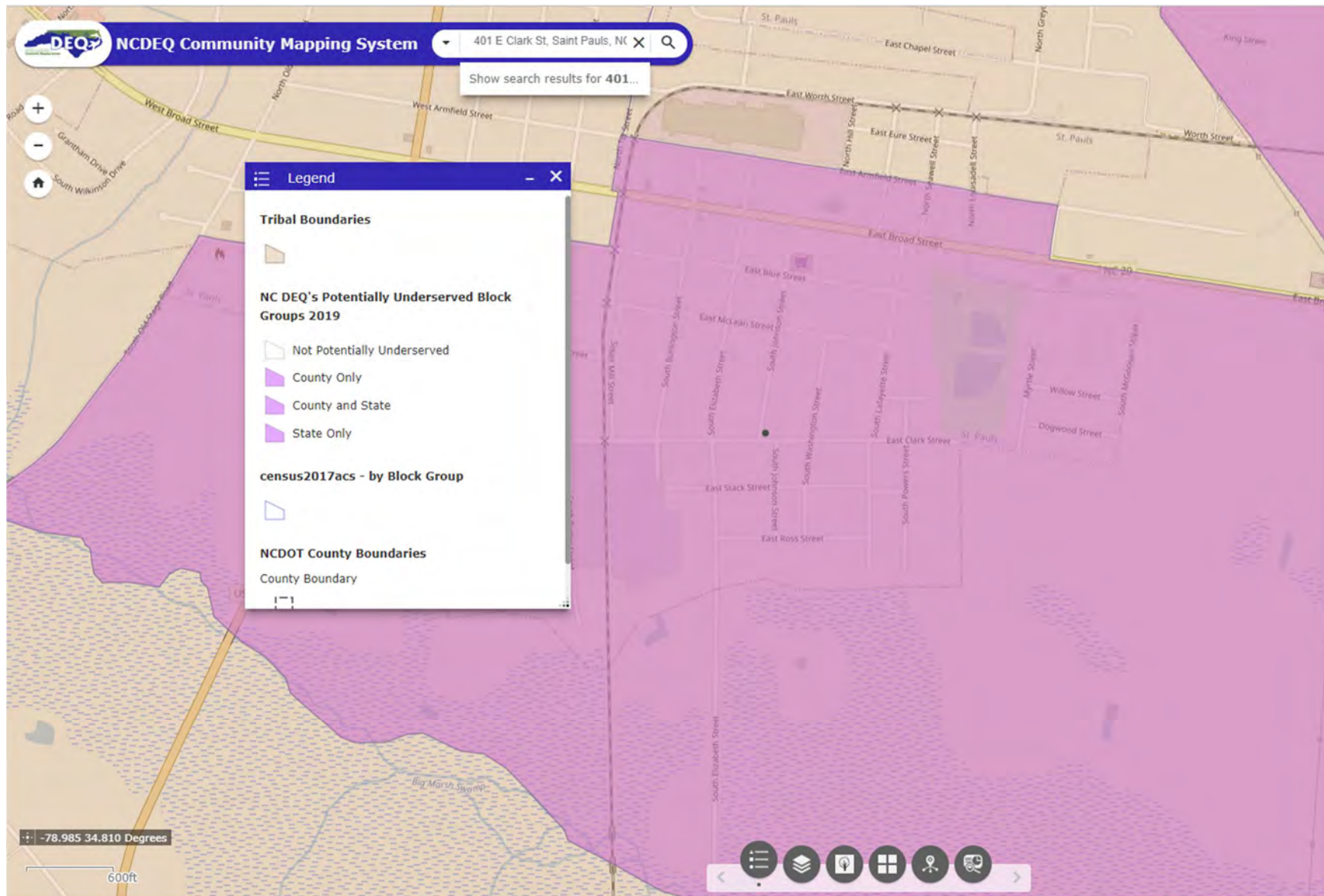
## CRITICAL SERVICE GAPS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	28%	16%	82	14%	87
Lack of Health Insurance	20%	11%	90	9%	92
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 the User Specified Area

# St. Pauls Flood Improvements – NC DEQ Community Mapping System





# Robeson County, North Carolina<sup>†</sup>

 County highlighted in the State

POPULATION: 134,956

## INCOME

### Average Household Income

Robeson County: \$36,366

North Carolina: \$57,388

### Residents who live below the poverty line



31.5%

Robeson County

13.6%

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 3 are 50 years and older

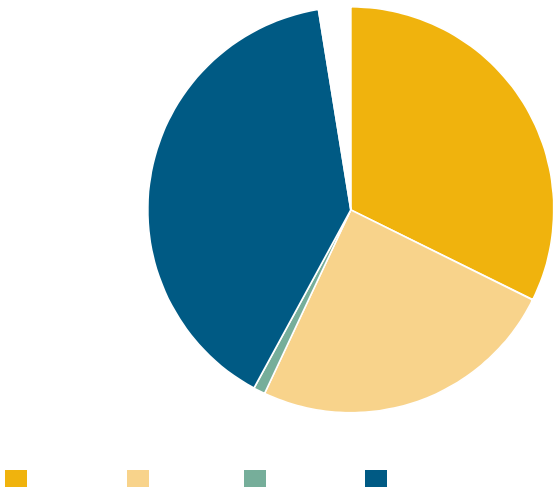
## ETHNICITY



1 are Hispanic and 9 are non-Hispanic



RACE



https://twitter.com/share?  
%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)  
out%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  
(../InfoByLocation/showPcMain.action)  
† 2020 data from the National Environmental Public Health Tracking Network (../showHome.action)



Asthma<sup>†</sup>

Percent of **adults** who currently have asthma

8.3%      7.0%

North Carolina      National

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?](https://twitter.com/share?%3A%2F%2Fephrtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

<https://twitter.com/share?%3A%2F%2Fephrtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking>

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Discover the data ([/../DataExplorer/?query=1F12A3B5-E744-4857-9110-401524CC8D8E&fips=37&G5=9999](https://ephrtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county)) | Learn more about this topic ([../showAsthma.action](https://ephrtracking.cdc.gov/showAsthma.action))

† 2019 data from the National Environmental Public Health Tracking Network ([../showHome.action](https://ephrtracking.cdc.gov/showHome.action))



## Air Quality: Ground-Level Ozone<sup>†</sup>



Robeson 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.

**Robeson 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?](https://twitter.com/share?%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

<https://twitter.com/share?%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking>

<https://twitter.com/share?%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking>

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<sup>†</sup>

ANNUAL AMBIENT CONCENTRATION OF PM<sub>2.5</sub>

µg/m<sup>3</sup>\*

Robeson County, North Carolina

µg/m<sup>3</sup>\*

## Annual National Standard

\*Micrograms Per Cubic Meter (µg/m<sup>3</sup>)

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<sub>2.5</sub>, is so small that it cannot be seen in the air. Breathing in PM<sub>2.5</sub> 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<sub>2.5</sub> levels is **12.0µg/m<sup>3</sup>**. When PM<sub>2.5</sub> levels are above 12, this means that air quality is more likely to affect your health.

In , the annual level of PM<sub>2.5</sub> in **Robeson County** was **µg/m<sup>3</sup>**. \*

\* Micrograms per cubic meter (../InfoByLocation/images/content/PM2-5\_5.jpg) (µg/m<sup>3</sup>)

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out%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 (../showAirLanding.action)

† data from the National Environmental Public Health Tracking Network (../showHome.action)



## Smoking<sup>†</sup>



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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%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)



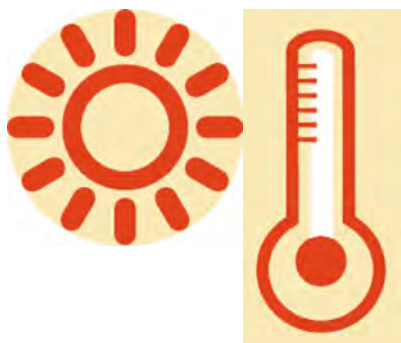
out%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (../showHBSmokingPrevalence.action)

† data from the National Environmental Public Health Tracking Network (../showHome.action)



## Extreme Heat<sup>†</sup>



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>).

**Robeson 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.

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%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

out%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 (../showClimateChangeExtremeHeat.action)

† data from the National Environmental Public Health Tracking Network (../showHome.action)



# Heart Attacks<sup>†</sup>



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 Robeson County.
- **deaths** from heart attacks in North Carolina.

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[%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking](#)

[out%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](#))

<sup>†</sup> data from the National Environmental Public Health Tracking Network ([../showHome.action](#))



# Access To Parks<sup>†</sup>



Live within half a mile  
of a park in Robeson  
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 **Robeson County** lived within half a mile of a park.

of people living in **North Carolina** lived within half a mile of a park.

[tps://twitter.com/share?](https://twitter.com/share?)

[i3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20#environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking\)](https://twitter.com/share?text=Check%20out%20#environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

out%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 (../showPcMain.action)

† data from the National Environmental Public Health Tracking Network (../showHome.action)



## Proximity To Highways<sup>†</sup>



of Robeson 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 Robeson County lived within 150 meters\* of a major highway.

In , of Robeson County public schools (preK-4<sup>th</sup> grade) were sited within 150 meters\* of a major highway.

\* 150 meters is about 2 blocks.

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[out%20the%20people%20in%20my%20county.%20Visit%20https://ephtracking.cdc.gov/InfoByLocation%2F%20to%20find%20out%20facts%20for%20your%20county.\)](https://twitter.com/share?%3A%2F%2Fephtracking.cdc.gov%2FInfoByLocation%2F&text=Check%20out%20environmental%20health%20in%20your%20county&hashtags=PublicHealth,Tracking)

Discover the data (REPLACED BY JAVASCRIPT) | Learn more about this topic (../showProximityToHighways.action)

† data from the National Environmental Public Health Tracking Network (../showHome.action)



Visit the Tracking Network for more information about your health and the environment.

[www.cdc.gov/ephtracking](http://www.cdc.gov/ephtracking) (<http://www.cdc.gov/ephtracking/>)

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[subject=Please%20add%20me%20to%20CDC's%20Environmen](mailto:EPHT@LISTSERV.CDC.GOV?subject=Please%20add%20me%20to%20CDC's%20Environmen)  
serv.&body=Please%20fill%20in%20the%20information%20bel

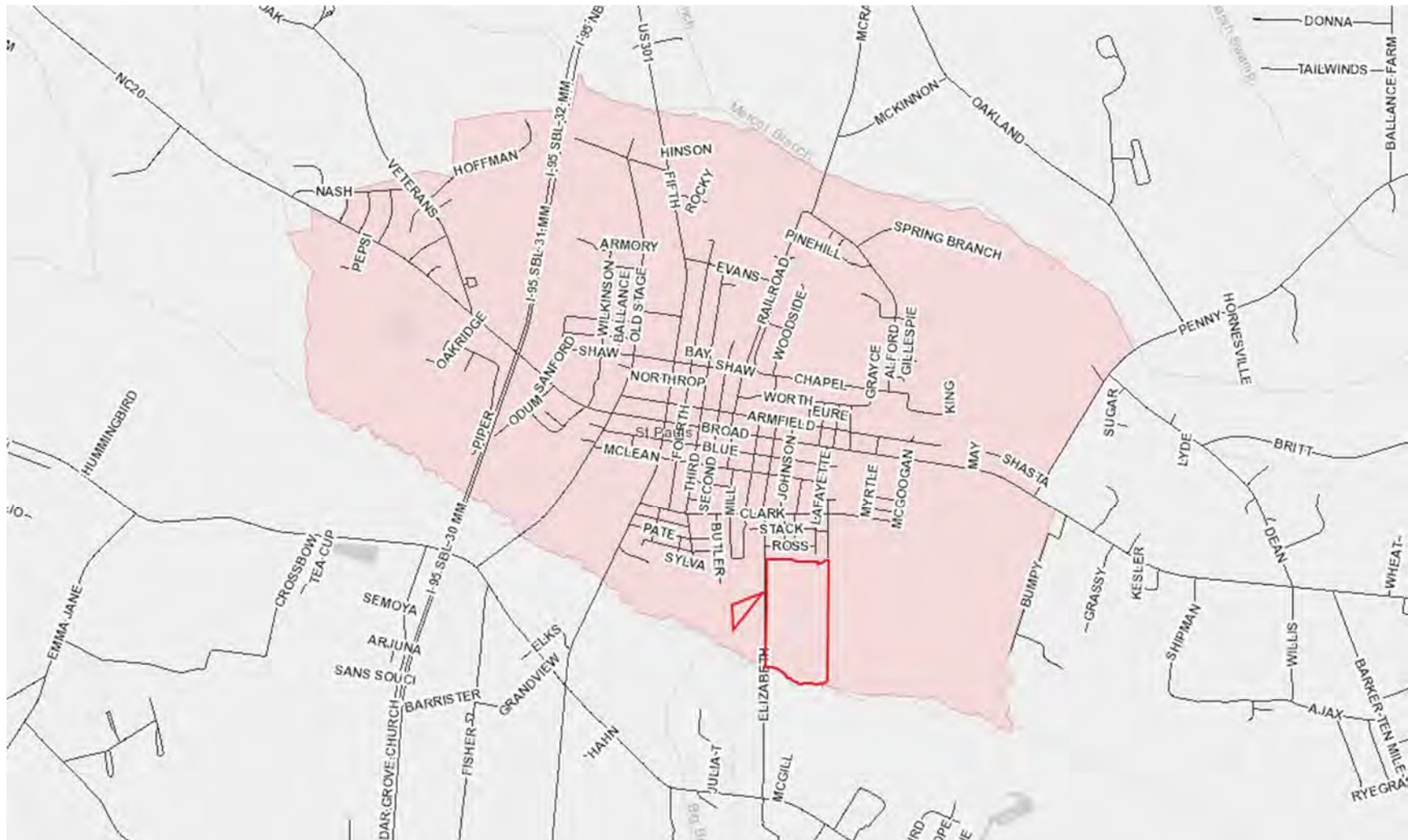




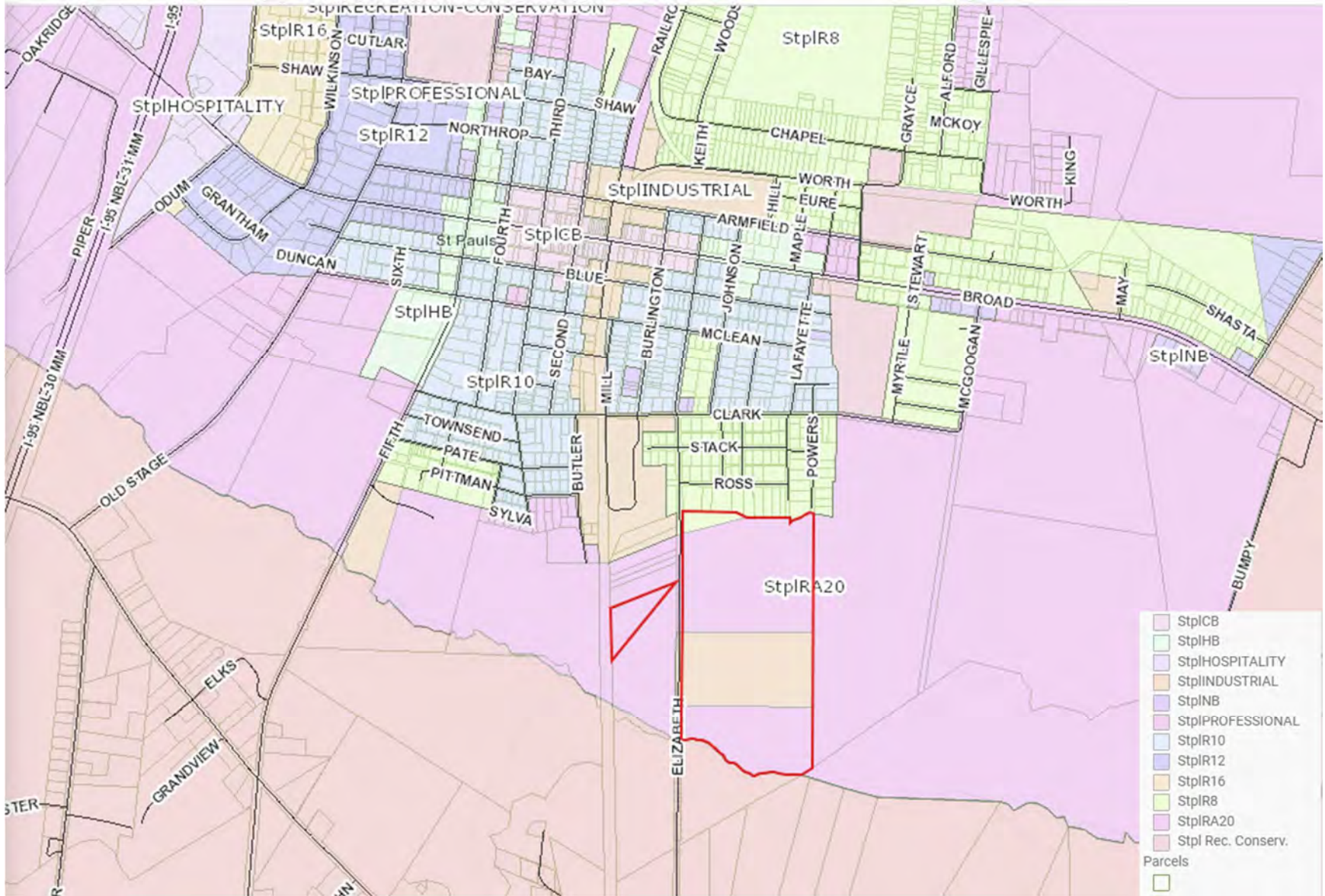
## **ATTACHMENT 15:**

### **Zoning**

## St. Pauls Flood Improvements – Zoning Municipal Extraterritorial Jurisdiction



## St. Pauls Flood Improvements – Zoning Map (Robeson County GIS)





<https://www.stpaulsnc.gov/zoning?lightbox=dataitem-kzcv8n9f>

**Town of St. Pauls  
Official Zoning Map**

**Legend**

**Zoning District**

- Residential 8
- Residential 10
- Residential 12
- Residential 16
- Residential Agricultural 20
- Central Business
- Neighborhood Business
- Highway Business
- Professional
- Industrial
- Hospitality
- Recreation/Conservation
- County RA
- County C1
- County I2

**Primary Roads**

**Streets**

**Railroad**

**St. Pauls Municipal Limits**

**Parcels**

Map labels: Sagehen Farm, Watts, Rice Pines, High School, Middle School, All, Elementary School, Park, Mike's Water.



Board Workshop Meeting  
September 30, 2019

The Mayor and Board of Commissioners for the Town of St. Pauls met on Monday, September 30, 2019 in the town conference room at 210 W. Blue Street at 7:00 p.m.

Present: Mayor Jerry Weindel Commissioners Elbert Gibson, Donna Patterson, Deborah Inman, Annie Stephens, Evans Jackson and Jerry Quick

Other Town Officials Present: Town Administrator Rodney Johnson, Police Chief Tommy Hagens, Town Clerk Debra McNeill, Zoning Officer Tina Odom and EMS Commander Tammy Williamson.

Planning Board Members Present: Chairman Ronald McDonald, Cazzie McClamb, John Gudauskas, Dohn Caudell, Doug Bedenbaugh and Chris Jackson.

Mayor Weindel opened the meeting and welcomed everyone.

Commissioner Annie Stephens gave the invocation.

Mayor Weindel opened a public hearing to discuss rezoning request on Highway 20 from RA20 to HB. The applicant would like to put a car lot on the property. Ms. Odom presented the request and explained that the parcel of land met all the criteria to be rezoned. The Mayor asked the public if anyone would like to address the board on the proposed rezoning comment. There were several people in attendance that were not in favor of this parcel of land being rezoned. Residents that live on Old Stage Road and Highway 301 says it will decrease the value of their homes, will not be maintained; that there are no businesses located on that side of Highway 301. Mr. Lopez, the landowner spoke explaining why he wanted the land rezoned and that he would follow the rules for having a highway business. The mayor closed the public hearing at 7:17 p.m.

The Town board adjourned so the planning board could meet.

After discussion of the pros and cons of the proposed rezoning Chris Jackson makes a motion to deny the request for rezoning. Dohn Caudell seconded his motion and all present were in favor.

Town Board reconvenes.

Motion by Commissioner Elbert Gibson and seconded by Commissioner Donna Patterson to suspend the workshop rules so that the board can vote during the workshop. Motion carries unanimously.

Motion by Commissioner Elbert Gibson and seconded by Commissioner Donna Patterson to accept the site plan review for Fairfield Apartments. Motion carries unanimously.

Motion by Commissioner Evans Jackson and seconded by Commissioner Jerry Quick to accept the bid for qualifications from McGill Associates for Engineering Services for Stormwater Systems Enhancement Project. Motion carries unanimously.

Motion by Commissioner Elbert Gibson and seconded by Commissioner Evans Jackson to accept the planning board's recommendation to allow a double- wide mobile home on East Armfield Street. (Parcel # 3810201007). Motion carries unanimously.

Mr. Johnson went over the administrators report:

Commissioner Elbert Gibson makes a motion to adjourn. The motion is seconded by Commissioner Annie Stephens. Motion carries unanimously.

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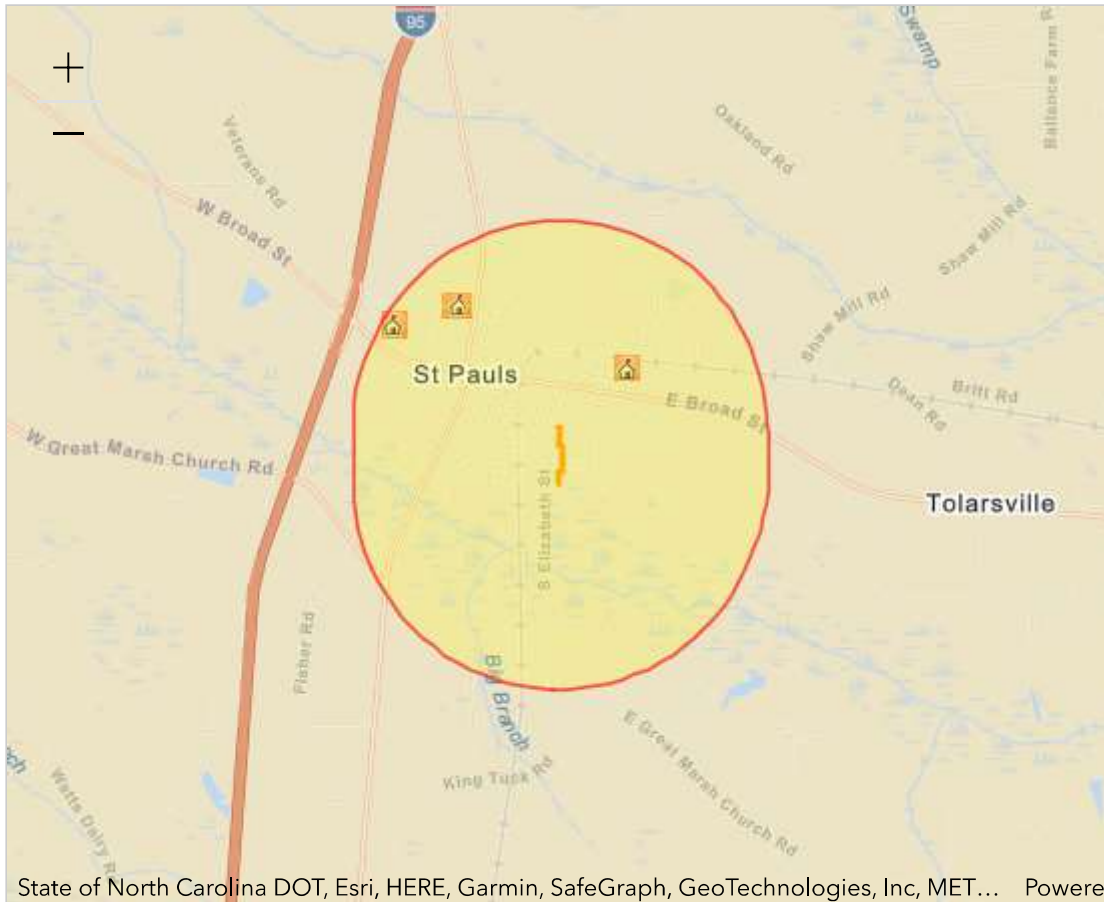
Town Clerk Debra McNeill

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Mayor Jerry Weindel

## **ATTACHMENT 16:**

### **Educational and Cultural Facilities**



State of North Carolina DOT, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, MET... Powered by Esri (<http://www.esri.com/>)

**Report question: *Within 1 mile of a school?* yes**

Modify question by entering a new buffer distance and unit for the selected study area:

Features within Study Area

Features found: 4

**Name**

**Distance**

☐ Saint Pauls Middle School

0.94 mile

**Feature ID:** 1006799

**Name:** Saint Pauls Middle School

**Class:** School

**State:** NC

**State FIPS:** 37

**County:** Robeson

**County FIPS:** 155

**Latitude:** 34.8104415

**Longitude:** -78.9822522

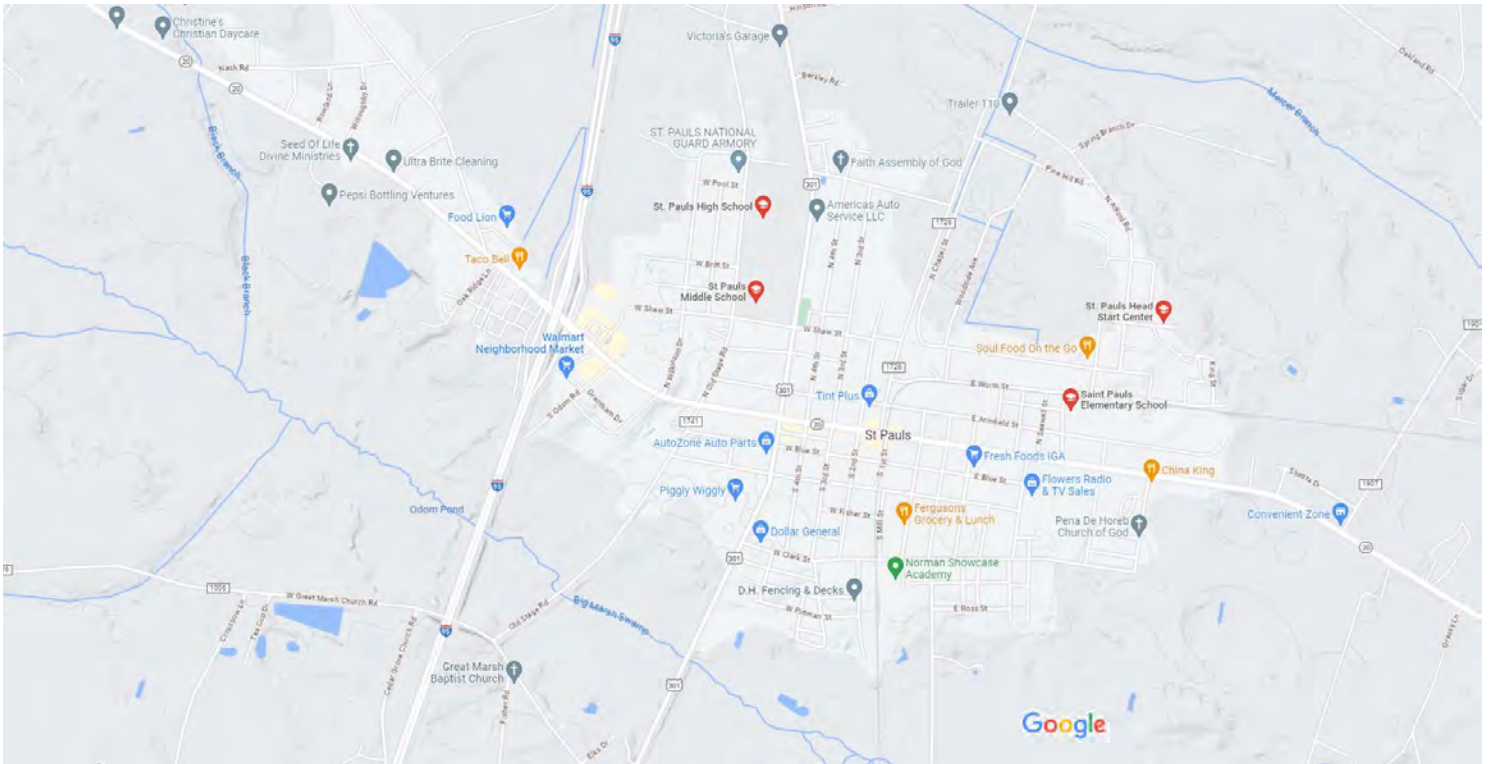
**USGS Map Name:** Saint Pauls

**Date Created:** 08/01/1989

**Date Edited:**



Name	Distance
<input type="checkbox"/> Saint Pauls Elementary School	0.43 mile
<b>Feature ID:</b> 1006800 <b>Name:</b> Saint Pauls Elementary School <b>Class:</b> School <b>State:</b> NC <b>State FIPS:</b> 37 <b>County:</b> Robeson <b>County FIPS:</b> 155 <b>Latitude:</b> 34.8073863 <b>Longitude:</b> -78.9622513 <b>USGS Map Name:</b> Saint Pauls <b>Date Created:</b> 08/01/1989 <b>Date Edited:</b>	
<input type="checkbox"/> Saint Pauls High School	0.77 mile
<b>Feature ID:</b> 1006802 <b>Name:</b> Saint Pauls High School <b>Class:</b> School <b>State:</b> NC <b>State FIPS:</b> 37 <b>County:</b> Robeson <b>County FIPS:</b> 155 <b>Latitude:</b> 34.8118305 <b>Longitude:</b> -78.9769742 <b>USGS Map Name:</b> Saint Pauls <b>Date Created:</b> 08/01/1989 <b>Date Edited:</b>	
<input type="checkbox"/> Saint Paul High School	0.76 mile
<b>Feature ID:</b> 1007565 <b>Name:</b> Saint Paul High School <b>Class:</b> School <b>State:</b> NC <b>State FIPS:</b> 37 <b>County:</b> Robeson <b>County FIPS:</b> 155 <b>Latitude:</b> 34.8118305 <b>Longitude:</b> -78.9766963 <b>USGS Map Name:</b> Saint Pauls <b>Date Created:</b> 02/01/1990 <b>Date Edited:</b>	



Map data ©2023 1000 ft

Rating Hours All filters

### Saint Pauls Elementary School

2.9 (11)

Elementary school · 222 Martin Luther King Rd

Closed · Opens 8:25 AM Fri · (910) 865-4103



Website



Directions

### St Pauls Middle School

4.0 (11)

Middle school · 526 W Shaw St

Closed · Opens 8:15 AM Fri · (910) 865-4070



Website



Directions

### St. Pauls High School

3.2 (11)

High school · 648 N Old Stage Rd

Closed · Opens 8 AM Fri · (910) 865-4177



Website



Directions

### St. Pauls Head Start Center

5.0 (2)

Head start center · 715 George St



Directions

### Magnolia School

3.8 (20)

Elementary school · 10928 US-301 (910) 671-6070



Website



Directions

### Parkton Elementary School

2.2 (12)

Elementary school · 400 N Green St

Closed · Opens 7 AM Fri · (910) 858-3951



Website



Directions

"THE LITTLE TOWN WITH THE BIG HEART"

The town's growth resulted in the establishment of an academy, Robeson Institute, in 1845. A 1925 paper reports that "It was a mixed school (gender), but was taught by competent teachers." In 1895 the academy burned and was never rebuilt. A new school combined with the Masonic Lodge, was built in 1886.

The textile industry flourished during the early part of this century with the building of three cotton mills by 1920. The worldwide depression of the 30's helped contribute to the selling of the mills in 1943 to Burlington Mills Corporation. While the textile industry has been in decline, other industries such as Watts Water Technologies and Prestige Farms have located and prospered in this area.

The railroad industry contributed much to the history of St. Pauls. The Virginia and Carolina Railroad, connecting St. Pauls with Lumberton and Elizabethtown and branching with the Atlantic Coast Line at Hope Mills, was built between 1907 and 1910 by the Atlantic Improvement Company. This influenced the surveying and sale of home lots and establishment of the business section next to the railway station. The town was incorporated in 1909, the same year of the town's first telephone line. An electric light line came to St. Pauls in 1912. Both of these local companies were bought in the 1920's by companies offering statewide service.

In 1923 St. Pauls was described as a "rosebud of nature's beauty" with its three cotton mills, flour mill, bank, newspaper, lumber company, ice company, three doctors, and three lawyers and "nice wide streets with plans to pave". Today, the area surrounding St. Pauls is known for its diversified farming and improving economic base.



**N**yack also. Located. Our town is known as the northern area of Robeson County directly on I-85 situated between Lumberton and the City of Fayetteville. Shopping and more is just a few minutes away. St. Paul's is also located 70 miles south of Raleigh via I-95 and I-40. Other nearby cities include Charlotte, 165 miles via U.S. 74 and the port of Wilmington, 90 minutes via I-95, 74 or 67. Just to our east is Florence, South Carolina and 120. To our south and southeast are two great coastal vacation spots, The Wilmington, North Carolina coastal area includes many beautiful beaches such as Wrightsville, Hatteras, Kure, and many more. For land you can't beat Holden Beach. Then there is the famous "Midi Coast" which includes Myrtle Beach, South Carolina. We are less than 1 hour from the City of Beaufort, North Carolina via US 17 and only 50 minutes away. You'll definitely find why trips to one of the finest beaches on the east coast.

If you enjoy golf, then you've found your heaven. From Pineland and Southern Pines, courses located just 45 minutes west, the Cherokee is also a Golf Course home to Raymond Floyd just up the road, down to the hundreds of courses surrounding Myrtle Beach, Little Harbor and area south, you'll be able to play all day, every day as never on the same course!



Businesses will love our area due to the tremendous savings having major carrier routes located just minutes away! With plenty of available space to locate any size enterprise, and with our Industrial Park offering access to I-45 just 2 minutes away, you've got the room to spread out and grow the way you need to. But it gets even better!

Because we are located in a select economic zone, your business will qualify for a number of Federal, State and local incentives. And, with our large available work force, technical colleges, Universities and training centers, you can rest assured your work force will be trained and ready to go. We'll even work on specialized training if your business requires it. We've got buildings and more available for your business to move in right away!



The Town of St. Paul provides fire water and sewer utility. Lumber River Property Solutions, a gas firm, Piedmont Natural Gas provides gas. Lines and hydrology, BlueEnergy Program, supplied as the electricity. Time-Warner Cable supplies high-speed Internet and CenturyLink has a subscription located in the center of town for high-speed DSL connections. While other municipalities are looking for ways to cut back on services, St. Paul continues to improve ours. Currently the Town is undergoing a major upgrade to its water and sewer systems. Storm water drainage is also being upgraded. Recycling has just recently been added to residential curbside pickup service. Sidewalk maintenance and other improvements are being made as needed. Overall, the town has placed a greater emphasis on quality of life issues for our citizens under the current Town Board and Town Administration.



Cablevision is available in St. Paul. The system offers a 32-channel service which includes the five major broadcast networks, five independents, an educational network, a package of sports, news, music, and children's programming, and four premium pay channels. The three major broadcast networks, Public Broadcast Network and several local independent networks are available over-the-air without Cablevision.



St. Paul's has two medical doctors, two physician assistants (PAs), one chiropractor, one dental office, one optometrist, one dialysis clinic and four drugstores. Hospital facilities are provided in Lumberton, 11 miles away at Southeastern Regional Medical Center, SRMC with a medical staff of 60 physicians, provides health care services which include: Carolina Maror Treatment Center; HealthKaiser Home Health Agency; Hospice of Robeson; HealthPartners Uniforms and Medical Supplies; Woodhaven - a 116 bed long-term care facility and SRMC Lincoln Plaza Campus. St. Paul's is also served by Cape Fear Hospital Systems in Fayetteville.



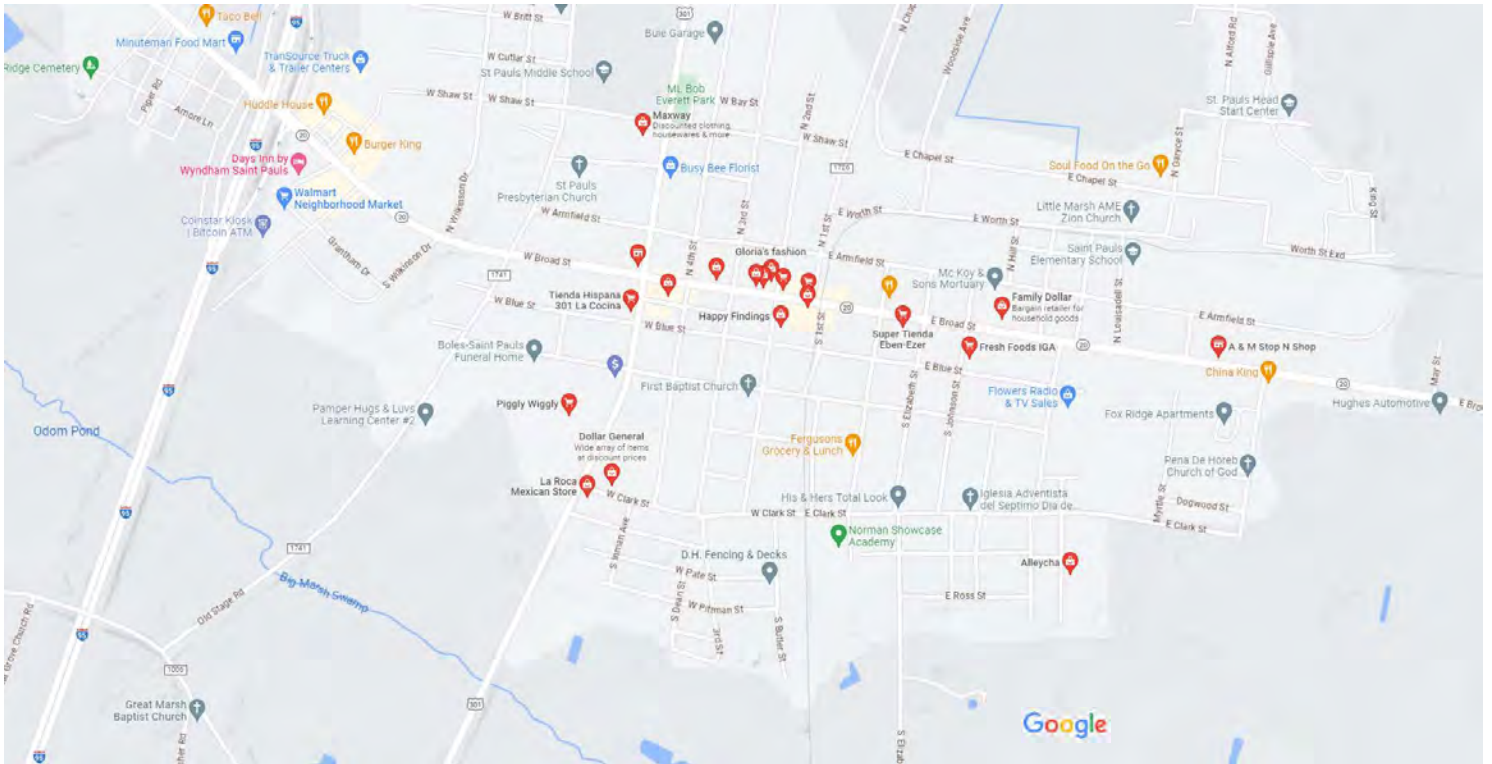
The Public schools of Robeson County located in St. Pauls includes one elementary, one middle and one high school. Higher education is provided by Robeson Community College in Lumberton, NC 11 miles away, UNC at Pembroke, 15 miles from St. Pauls is a 4-year institution which offers 52 undergraduate degrees and nine graduate programs. St. Andrews Presbyterian College in Lenoirville is 20 miles from St. Pauls, Fayetteville State University, Methodist University and Fayetteville Technical Community College are located 20 miles away. The Big four: The University of North Carolina at Chapel Hill, North Carolina State University, Duke University and Wake Forest University are located within a good driving distance of St. Pauls, Carolina, State, and Duke are 90 minutes driving time and Wake Forest is approximately a 3 hour drive.

<b>Community</b> St. Paul's NC Calendar Junes Zoning Ordinances Documents & Reports Community Events Community Centers Visitors Center Contact Town Offices	<b>Local Government</b> Mayor & Town Board Town Administration Village Assessment Fire Department Police Department EMS Public Works Emergency Services Committee Tourism Development Authority Town Planning Board ABC Board Tree Council Annual Performance Report	<b>Contact</b> Office of St. Pauls 210 W. Blue Street St. Pauls, NC 28384  Phone: 810-454-0165 Fax: 810-454-3885	<b>Today's Weather</b> Town of St. Pauls, NC Fri, Jul 4, 14  <div> <div>79°F</div> <div>Mostly Cloudy</div> </div>
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## **ATTACHMENT 17:**

### **Commercial Facilities**





Map data ©2023 500 ft

Rating Hours All filters

### Maxway

4.1 (59) · \$  
Discount store · 315 N 5th St  
Discounted clothing, housewares & more  
Closes soon · 8 PM · Opens 9 AM Fri ·  
(910) 865-3407  
In-store shopping



### THE MILITARY STORE

4.4 (17)  
Outdoor clothing and equipment shop ·  
210 W Broad St  
(910) 865-9900  
In-store shopping



### Piggly Wiggly

4.4 (484) · \$\$  
Grocery store · 326 S 5th St  
Open · Closes 9 PM · (910) 865-4158  
In-store shopping



### Family Dollar

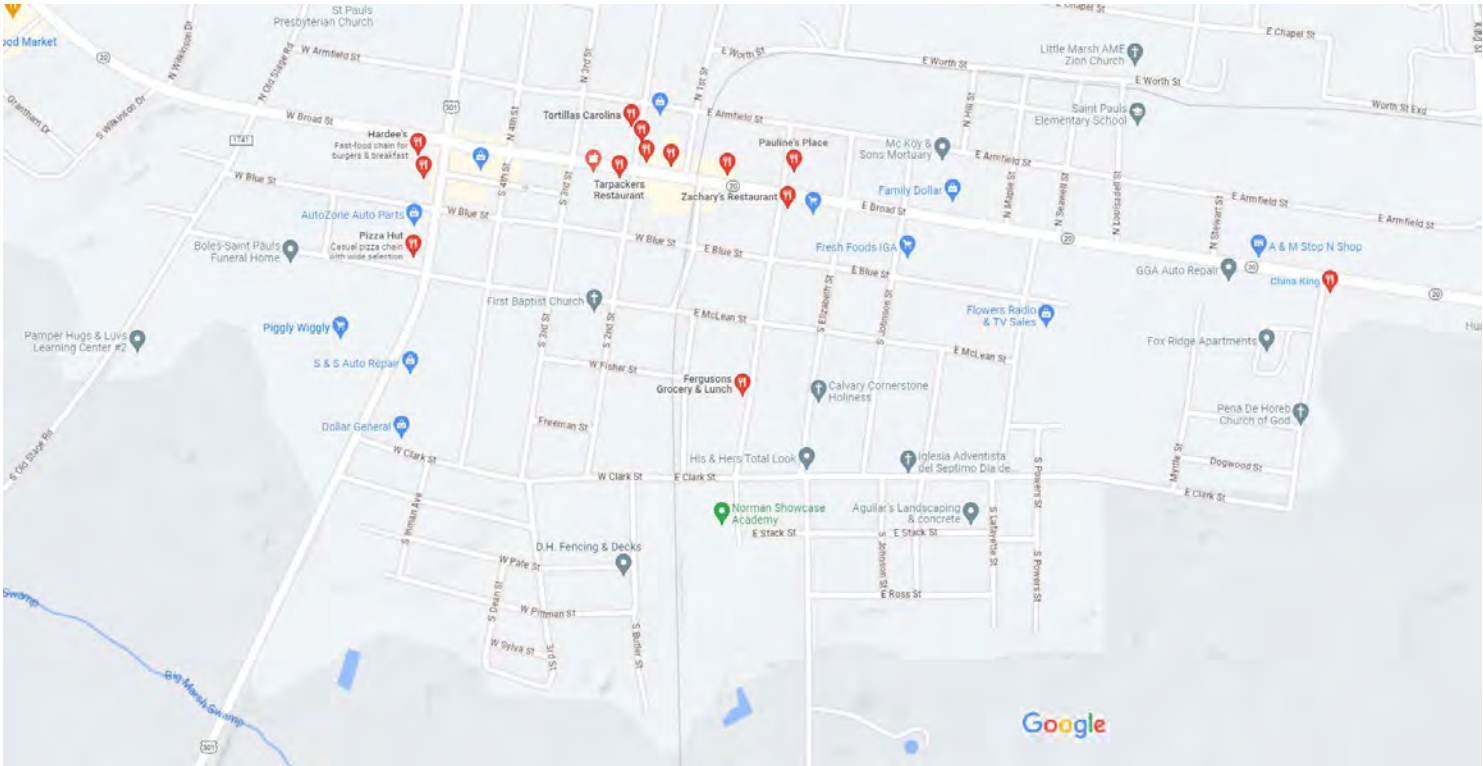
3.5 (62) · \$  
Dollar store · 407 E Broad St  
Bargain retailer for household goods  
Open · Closes 10 PM · (910) 865-2509  
In-store shopping



### Alleycha

No reviews  
Youth clothing store · 509 S Powers St  
(910) 583-4039





Map data ©2023 500 ft

Price Rating Cuisine Hours

### Zachary's Restaurant

4.0 (372) · \$\$

Italian · 202 E Broad St

Open · Closes 9 PM



Dine-in · Drive-through · Delivery

### Soul Food On the Go Restaurant

4.3 (82)

Soul · 545 E Chapel St

Closes soon · 8 PM · Opens 9 AM Fri



Dine-in · Takeout · No delivery

### Tarpackers Restaurant

4.2 (194) · \$\$

American · 201 W Broad St

Closed · Opens 4:30 PM Fri



Dine-in · Curbside pickup · Delivery

### Los Compadres Mexican Restaurant

4.4 (234)

Mexican · 106 W Broad St

Open · Closes 9 PM



Dine-in · Takeout · Delivery

ORDER ONLINE

### Pauline's Place

4.6 (504) · \$\$

Barbecue · 203 E Broad St

Closed · Opens 9:30 AM Fri



Exhibit 2

**North Carolina Office of Recovery and Resiliency  
CDBG-DR Infrastructure Recovery Program**

**PROJECT INFORMATION FORM**

**General Information (for CDBG-DR staff only after review):**

- FEMA Disaster Number: **DR 4285, Hurricane Matthew**
- Public Law(s) Allocating DR Funds: **PL 114-223, 9-26-16; PL 114-254, 1-18-17;** \_\_\_\_\_
- Federal Register Notice(s): **81 FR 83254, 11-21-16; 82 FR 5591, 1-18-17;** \_\_\_\_\_
- National Objective: \_\_\_\_\_
- North Carolina County/City: \_\_\_\_\_
- Activity from NC Action Plan & Amendments: \_\_\_\_\_
- HUD Form 2880 Completed: \_\_\_\_\_
- Reserved: \_\_\_\_\_

**Please Note:** This completed form and all supporting documentation must be submitted to the CDBG-DR program via the Salesforce system, if available (license required). Acceptable formats are Word, PDF, or Salesforce filled-in fields if this option is available. After receipt of this form NCORR, CDBG-DR staff will convene a review panel to determine whether the proposed project remains eligible for CDBG-DR funding. The recipient will be notified in writing of that determination. The pertinent portions of this form should be completed with as much detail as necessary to adequately describe the proposed project and its potential CDBG-DR eligibility.

**RECIPIENT SUBMISSION AUTHORIZATION AND DISCLOSURE**

AUTHORIZED BY (Signature Required):	<i>Debra McNeill</i>
PRINTED NAME:	Debra McNeill
TITLE:	Interim Town Administrator
DATE:	9/28/2020
CDBG-DR PROJECT NUMBER (from Subrecipient Agreement):	
ATTACH/INCLUDE COMPLETED HUD DISCLOSURE FORM at HUD Form 2880	

**Check One:** Original Application \_\_\_\_\_ Amended Application X

**1. RECIPIENT (County):** Insert all contact information for recipient and contact persons. **(Modified from Robeson County to Town of St. Pauls.)**

Name of Recipient: Town of St. Pauls

Physical Address: 210 West Blue Street, St. Pauls, NC 28384

Federal ID Number: 56-6001327

DUNS Number:171261571

SAMS CAGE Code:

Name of Recipient Contact Person(s): Debra McNeill

Telephone Number:910-865-5164

Mailing Address of Recipient: 210 W. Blue Street, St. Pauls, NC 28384

Email Address of Recipient: debra@stpauls.gov

Name, address, phone number, and contact person of Architectural/Engineering firm (if available):

Name, Address, Phone Number and Email Address of Administrative Consultant (if applicable):

**2. PROJECT NAME AND ADDRESS:**

Insert the physical address of the proposed project, or of the entity if the project is a program/planning activity. If a project does not have a physical address, then provide latitude/longitude of the project site below. **(No Changes from Original PIF)**

- a. Project Name: Elizabeth-Johnson Street Storm Drainage
- b. County Name: Robeson
- c. Project Address: St. Pauls, NC, Linear project from Johnson Street to Clark Street, South on Elizabeth Street to Big Marsh Swamp.
- d. Target Area Census Tract(s) and the geographical area of the low-moderate income persons to benefit from the project: Census tract 960102 Block Group 3
- e. Latitude/Longitude of project site, if required: N 34.80149, W -78.96934
- f. Will the project be located in the 100-year floodplain or floodway? The majority of the project is outside of the 100 year flood plain. Approximately 200 ft at the south end of the project may extend into the 100 year floodplain to convey the storm water to a natural drainage. No construction in a floodway is proposed.

**3. CDBG-DR ELIGIBLE ACTIVITY:**



State the eligible activity (ies), including the regulatory/statutory citations(s), and how this project fits that/those eligible activity(ies). **(No Changes from Original PIF)**

The activity is a Flood and Drainage Improvements project under the Community Recovery Program to reduce flooding in the Town of St. Pauls. The eligible activity consists of the design and construction of a new storm drainage system including the installation of approximately 2,500 linear feet of 48-inch reinforced concrete pipe with inlet boxes and related appurtenances from the flood-prone area to an outlet near Big Marsh Swamp. The new pipes would be installed primarily within the Town's right-of-way of South Johnson Street, East Clark Street, and South Elizabeth Street. The pipe network would have a depth of approximately 10 to 14 feet, and would be designed to avoid conflicts with other utilities where possible.

#### 4. NATIONAL OBJECTIVE: (No Changes from Original PIF)

National Objective to be addressed.

- ☒ Activities Benefiting Low/Moderate Income Persons
- ☒ Prevention/Elimination of Slums or Blight
- ☐ Urgent Need
- ☐ Not Applicable—Planning


Briefly discuss how the project meets that National Objective.

#### 5. ANTICIPATED PROJECT FUNDING AND COST ESTIMATE:

PROJECT FUNDS	AMOUNT	SOURCE AND STATUS	REMARKS (IF ANY)
CDBG-DR	\$451,500	Robeson County Allocation	Includes \$21,500 Administration
LOCAL FUNDS	As needed	General Fund if necessary	
PRIVATE FUNDS	0		
OTHER STATE FUNDS	\$350,000	Golden Leaf awarded funds released	
FEDERAL FUNDS	0		
OTHER FUNDS	0		
TOTAL	\$801,500		

## **PRELIMINARY PROJECT COST ESTIMATE**

Complete the project budget by addressing the categories provided in the table below (Insert rows as needed). Total the cost amount for each line, and provide the total cost amount.

	CDBG-DR Funding Requested	Other Secured Funding Source(s)	Total Cost Amount
Indicate construction costs by line item			
<b><u>Construction Costs</u></b>			
Mobilization	\$13,420	\$7,980	\$21,400
48" RCP and Boxes	\$348,920	\$207,580	\$556,500
Road Repairs	\$70,720	\$42,080	\$112,800
Erosion Control	\$13,790	\$8,210	\$22,000
Misc Surface Repairs	\$15,670	\$9,330	\$25,000
Contingency (10% of construction costs):	\$46,270	\$27,530	\$73,800
<b>Construction Subtotal:</b>	<b>\$508,790</b>	<b>\$302,710</b>	<b>\$811,500</b>
<b><u>Engineering Costs</u></b>			
Engineering Design	\$43,140	\$25,660	\$68,800
Bid and Award	\$5,020	\$2,980	\$8,000
Land Surveying Costs	\$5,020	\$2,980	\$8,000
Construction Administration	\$26,330	\$15,670	\$42,000
<b>Engineering Subtotal:</b>	<b>\$79,510</b>	<b>\$47,290</b>	<b>\$126,800</b>
<b><u>Administration Costs</u></b>			
Planning			
Easement Preparation (if applicable)	\$10,000		\$10,000
Easement Acquisition	\$15,000		\$15,000
Grant Administration (if applicable)	\$21,500		\$21,500
Environmental Documentation Preparation			
Legal Costs			
Other			
<b>Administration Subtotal:</b>	<b>\$46,500</b>		<b>\$46,500</b>
<b>TOTAL PROJECT COST:</b>	<b>\$634,800</b>	<b>\$350,000</b>	<b>\$984,800</b>
Please provide a PE Seal for the estimate in the space to the right.			

Note: Estimate provided is based on Engineer's judgement and familiarity with the construction industry. Recent impacts of COVID-19 have caused substantial uncertainty and variability in the bid environment with the potential to raise or lower bid cost from these estimated values.

**Please also provide the following information:**

Environmental Review Record Complete: TBD Acquisition/Closing (if applicable): TBD

Design Complete: TBD Construction Start Date: TBD

Construction End Date: TBD

HUD Matrix Code (Can be found at <https://www.hudexchange.info/resources/documents/Matrix-Code-Definitions.pdf>) \_\_\_\_\_

**6. PROJECT DESCRIPTION AND SUPPORTING INFORMATION:**

Please include project details, to the extent available, for the following items (items b and c should also be included for Public Housing Authority projects):

- a. What type of project is proposed?

Construct a new storm water system to reduce flooding.

- b. **(For Public Housing Authority projects only)** What is the estimated number of units that will be rehabilitated/reconstructed under the proposed project? NA

- c. **(For Public Housing Authority projects only)** What is the estimated average cost per unit for the proposed rehabilitation/construction? NA

- d. Is the proposed project new construction, rehabilitation, upgrading of existing facilities, other?

The proposed project is new construction of a storm drain.

- e. What is the anticipated duration of the construction (in days)? 120 days

- f. What are the objectives of the project?

Improve storm water drainage in an area that has very poor natural drainage. The storm water system will be designed to convey a 10 year storm within the proposed pipe system. The system will assist in recovery during larger storms as well although some ponding may still occur.

- g. What are the expected results?

Reduced potential for property damage from significant storms.

- h. Are there any known historic districts or properties that will be impacted by the proposed project?

No historic structures or districts are impacted by this project.

- i. Please check the anticipated level of environmental review necessary for the proposed project (from 24 CFR Part 58):

- Exempt \_\_\_\_\_
- Categorically Excluded Not Subject to Section 58.5 \_\_\_\_\_
- Categorically Excluded Subject to Section 58.5 \_\_\_\_\_
- Environmental Assessment (EA) X \_\_\_\_\_
- Environmental Impact Statement (EIS) \_\_\_\_\_



- Adoption of FEMA's Environmental Review (limited to co-funded FEMA PA projects) \_\_\_\_\_

j. Are land acquisition or easement rights involved? Yes

k. What are the previous and proposed uses of the impacted property or site? Residential, Church and Industrial.

l. Is the project in conformance with any approved community plans? Yes

m. Will Davis –Bacon Wages be required on this project? Yes

n. Will Section 3 apply to the proposed project? Yes

o. Do you anticipate any program income as a result of the proposed project? No

#### 6.1 PROJECT STATUS:

Has any component of the project begun, such as procurement of A/E, environmental review, Preliminary Engineering Report, design, construction, etc.?

Yes \_\_\_\_\_

No   X  \_\_\_\_\_

If yes, please provide a description of those project activities that have been completed and/or are currently underway, the percent complete of each activity, and whether any action items will be undertaken in the near future.

Please also provide a description regarding whether the intent is to use CDBG-DR funds to pay for activities completed or currently underway.

#### 6.2 PROJECT CONTEXT:

Please provide the following information regarding the proposed project:

Is the proposed project part of a larger plan or project? Yes \_\_\_\_\_

No   X  \_\_\_\_\_

If Yes, is it sufficiently separate from that plan or project and does not rely on it to provide a complete project and does not trigger CDBG-DR requirements on other parts of the plan/project?

**BENEFICIARIES/PUBLIC BENEFIT/TARGET AREA:**

Please provide a narrative addressing the following questions:

- Who are the beneficiaries of the proposed project?
- What are the expected benefits to these beneficiaries, and where do they live?

Indicate by means of an "x" as to whether the proposed project will involve a community-wide benefit or a target area(s) benefit and enter the zip code of the project. If a target area is involved, enter the name(s) and zip code of the target area(s).

Community-wide \_\_\_\_ Target Area(s) X

Name and Zip Code of Community-wide or Target Area: 28384, Southeastern portion of St. Pauls

Name and Zip Code of Community-wide or Target Area: \_\_\_\_\_

Name and Zip Code of Community-wide or Target Area: \_\_\_\_\_

Community-wide projects should use the zip code of the location of city hall. Target-area projects should use the zip code of the target area where the majority of the construction funds will be spent (for each target area). If the target area(s) does not have a name, please provide a brief geographical description of the area such as "western portion of the city."

How many other projects funded with CDBG-DR funds relate to the project? None

Does the project relate to any other project that NCEM should be aware of? No

If flood insurance is required, has the entity that will be required to carry it in perpetuity been informed of this requirement? Not Required Yes No

Is this project receiving FEMA Public Assistance funding? Yes X No

Is this project receiving FEMA Public Assistance 406 Hazard Mitigation Funds? Yes X No

If Yes, please provide the FEMA Project Worksheet number(s) for this project application: \_\_\_\_\_

(The FEMA project work sheet number should include the FEMA disaster declaration number in the first four (4) digits and the project worksheet number in the last five (5) digits. A Hurricane Matthew related project with the project worksheet "567" would be entered as "4285-00567")

Is this project receiving FEMA Section 404 Hazard Mitigation funds? Yes X No

Is this project receiving any Army Corps of Engineers funding? Yes X No

If yes, please provide the type of funds applied for and application number: \_\_\_\_\_

Is this project receiving any Environmental Protection Agency funds? Yes X No

If yes, please provide the type of funds applied for and application number? \_\_\_\_\_

Is this project receiving any Department of Energy funds? \_\_\_\_\_Yes \_\_\_\_\_X\_\_\_No

If yes, please provide the type of funds applied for and application number: \_\_\_\_\_

Is this project receiving any Department of Transportation funds? \_\_\_\_\_Yes \_\_\_\_\_X\_\_\_No

If yes, please provide the type of funds applied for and application number: \_\_\_\_\_

Is this project receiving any Department of the Interior funds? \_\_\_\_\_Yes \_\_\_\_\_X\_\_\_No

If yes, please provide the type of funds applied for and application number: \_\_\_\_\_

Is this project receiving any State funds (e.g. Disaster Recovery Act funds)? \_\_\_\_\_X\_\_\_Yes \_\_\_\_\_No

If yes, please provide the type of funds applied for and application number: GoldenLEAF FY2018-065

In the event that any of the above questions result in a “yes”, it is possible that a duplication of benefit (DOB) may occur. It is important that added information is provided to a yes response, since in the event that a recipient either does not disclose a DOB or adequately answer the question, it may result in the recipient having to return CDBG-DR funds and or reallocate funding to remain in compliance with HUD and State requirements.

GoldenLEAF Funds are included in the budget to meet the total required funds to complete the proposed project. All allocated funds from CDBG-DR and GoldenLEAF are anticipated to be required to complete the work.

#### TIE TO THE STORM/RECOVERY RATIONALE:

Please provide a narrative addressing the following questions:

- How does this project address the direct impact(s) of Hurricane Matthew?

Those homes that were damaged by Hurricane Matthew will be much less likely to experience property damage from future storms.

- How does it address a recovery objective of the community from Hurricane Matthew?

The Community wants to remain intact and not fear every future significant storm as the residents see the storm water rise into their yards. As the Town of St. Pauls has enjoyed economic development success and added over 1,300 new jobs to its local economy, every single house is needed to allow the growth to occur in St. Pauls

#### DESCRIPTION OF CONSTRUCTION INVOLVED

Provide a narrative addressing the following questions:

- How extensive is the proposed construction?

The project includes installation of approximately 2,500 LF of 48” reinforced concrete pipe (RCP) and associated structures. Construction will include excavation of trenches for installation of the pipe and restoration of surfaces such as grass areas, roadways, driveways. Erosion control will be required to contain sediment during construction and stabilize the site.

- Will digging, earthwork, boring, tunneling, etc. be involved in the project?

Yes, digging will be involved in the installation of the proposed storm drainage. All areas are anticipated to be returned to preconstruction grades.

**DESCRIPTION OF ACQUISITION INVOLVED:**

Please briefly describe the nature of any necessary land or property or easement acquisition and a rationale for its selection.

Acquisition of easements will be necessary for installation of the storm water system. The low point where the primary collection will occur is on property owned by a church. Some portions of the piping will be installed within Town road right of way where feasible. A portion of the pipe along Elizabeth Street will require additional easements parallel with the road to avoid conflicts with existing utilities. Some alternative routes may be considered during design however the intent will be to utilize the most economical and direct route to convey the storm water to the larger drainage of the Big Marsh Swamp.

**MITIGATION/RESILIENCY PLAN:**

Provide a description discussing how the project design will address mitigation/resiliency to minimize damage in the event of future flooding or extreme weather.

The proposed project will convey stormwater from an area of the that is currently inadequately drained to a large drainage. This improvement will help with flooding in the general area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation during storm events.

**7. PROJECT FEASIBILITY:**

Please provide brief answers and/or a narrative addressing ALL of the following questions regarding the likelihood of the project being implemented and completed:

Was the proposed project included as part of the County's previously submitted application for CDBG-DR funding?

Yes, The project was included in the most recent application submitted for CDBG-DR Funding.

Was the proposed project included in the County's Resilient Redevelopment Plan? If so, please provide page number(s) for reference.

Briefly describe the community support for the project and any outreach efforts the recipient has taken.

The Town Board and community has had numerous discussions on storm water concerns prior to and following Hurricane Matthew. A few recent times where storm water was discussed include:

January 14, 2016 Various storm water maintenance issues were discussed at Town Board Meeting

October 13, 2016 Ronald Roush spoke at the Town Board Meeting requesting something be done about the drainage problem at McClean and Johnson Streets which is the specific project area.

November 2, 2016 Public comment suggested Mayor appoint a storm water committee

May 1, 2017 Storm water committee presented a report indicating Elizabeth Street in the project area as one of the top priorities for storm water management in the Town.

March 11, 2018 Storm drainage was a significant topic at Town Board Retreat including discussion to identify projects and seek funding to improve the situation.

September 3, 2019 – Steve Glover, a resident in the project area, addressed the Town Board and expressed his concern about the project status with the upcoming hurricane season and pending storm.



Are there any significant regulatory, permitting, or environmental issues that may impede the project's progress?

None are anticipated at this time. Permitting for work within the 100 year floodplain is anticipated but is not expected to result in an impact to the 100 year flood elevation.

If the project requires additional financial support beyond the NC Community Recovery Infrastructure program funding, are those funds available and/or committed?

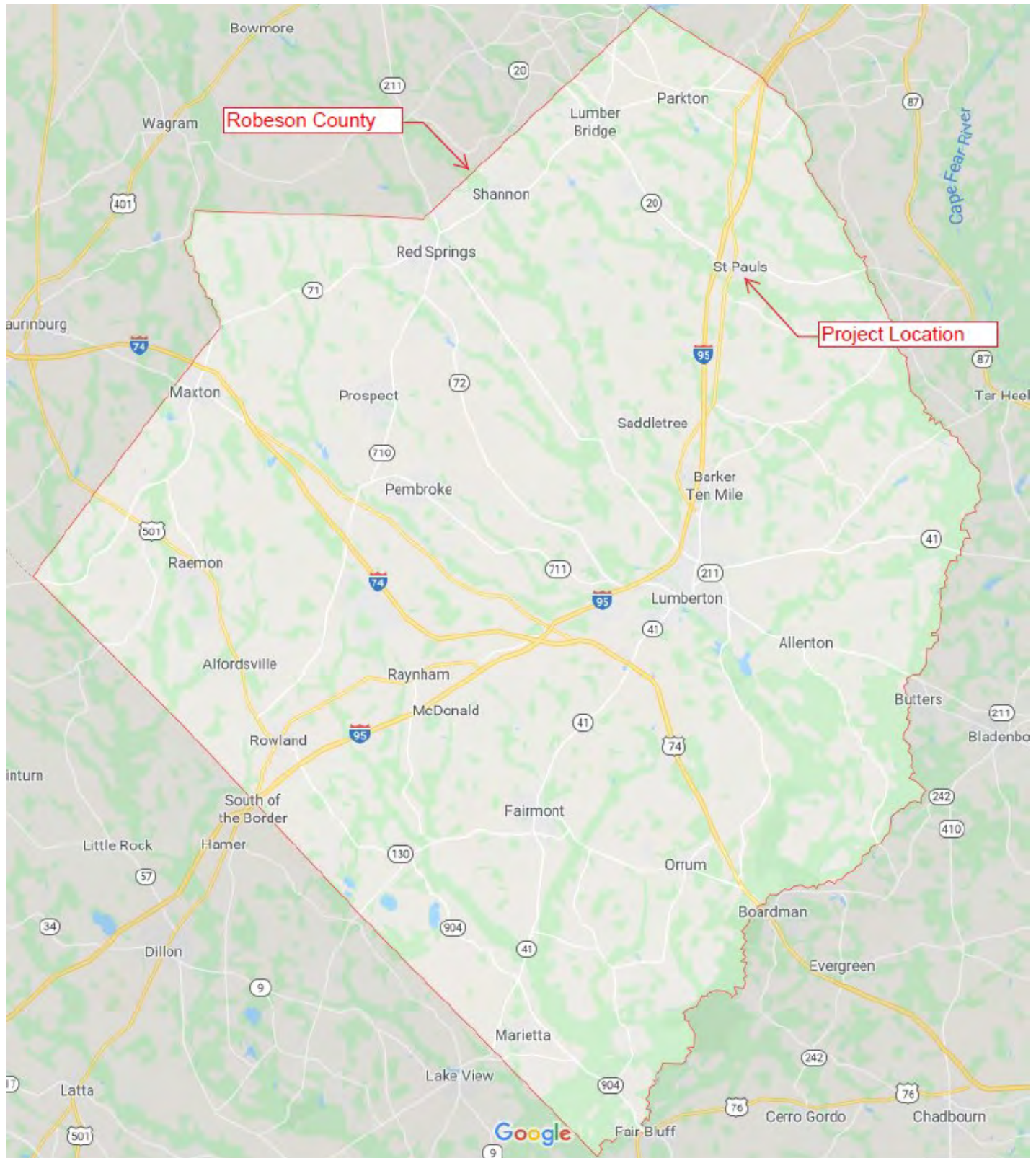
If the project requires additional financial support beyond the NC Community Recovery Infrastructure program funding, are those funds available and/or committed? Yes, the funds are available from the Golden Leaf Foundation in the amount of \$350,000

#### **8. PROJECT MAPS AND SUPPORTING INFORMATION (attached to this PIF or separately):**

Please provide the following:

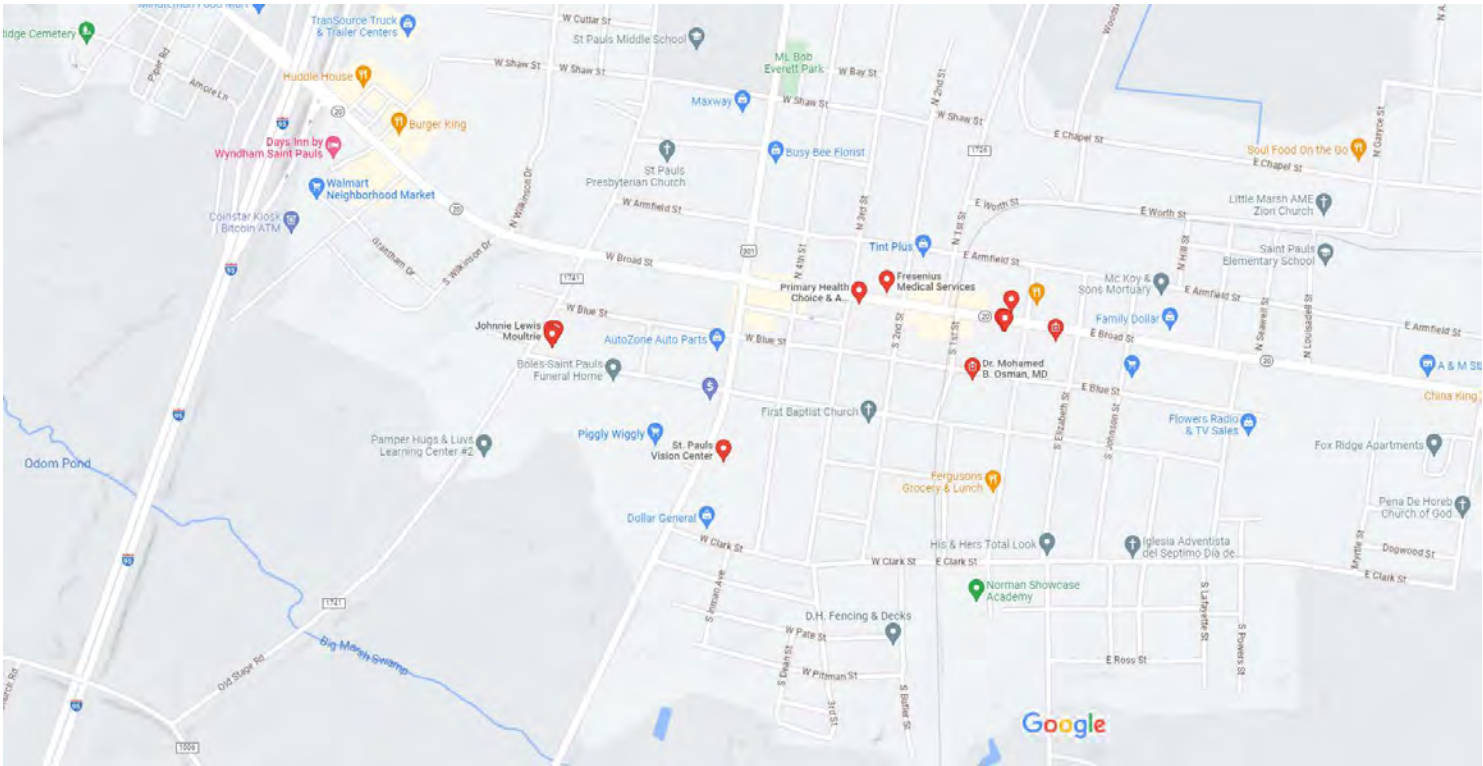
- Location of the project within the County
- Preliminary site plan showing the location of proposed facilities
- Preliminary drawings, if available
- Any other supporting information that may improve the review panel's understanding of the proposed project.

## PROJECT LOCATION MAP



## **ATTACHMENT 18:**

### **Health Care and Social Services**



Map data ©2023 500 ft

Rating

Hours

All filters

### St. Pauls Health Center

2.3 (7)

Medical clinic · 128 E Broad St

**Closed** · Opens 8 AM Fri · (910) 241-3042



Website



Directions

### Three Rivers Medical Center

3.3 (7)

Medical clinic · 580 W McLean St

**Closed** · Opens 8 AM Fri · (910) 615-3570

👤 "Awesome" 🍌 Great caring Doctor"



Directions

### Dr. Mohamed B. Osman, MD

5.0 (1)

Family practice physician · 122 E Blue St

**Closed** · Opens 7 AM Thu



Directions

### Dr. Johnnie L. Moultrie, MD

No reviews

Family practice physician · 580 W McLean St  
(910) 865-3063



Directions

### Primary Care of St Pauls

No reviews

Medical clinic  
(910) 865-1182



Directions

### Pruitt Lysiane

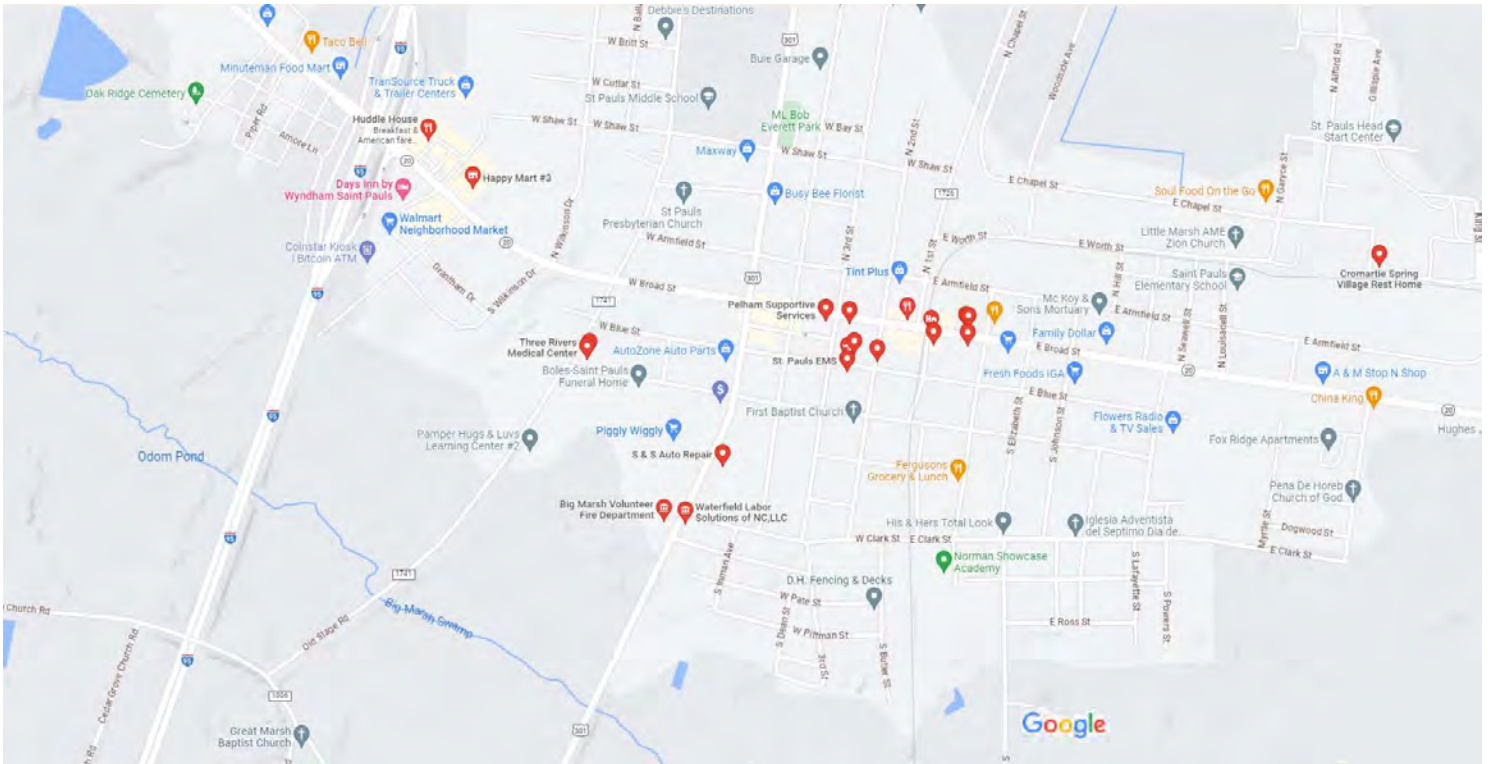
No reviews

Doctor · 128 E Broad St  
(910) 865-5955



Directions





Map data ©2023 500 ft

Rating

Hours

All filters

### Pelham Supportive Services

No reviews

Assisted living facility · 307 W Broad St  
(910) 865-3358



Directions

### Living at Peace, PLLC

No reviews

Social worker · 121 S 2nd St  
**Closed** · Opens 2 PM Fri · (910) 885-9029



Website



Directions

### Amber R. Smutny, LCSW

No reviews

Social worker · 219 W Broad St  
(910) 865-3500



Directions

### St. Pauls EMS

5.0 (1)

Local medical services · 217 W Blue St



Website



Directions

### Cromartie Spring Village Rest Home

No reviews

Assisted living facility · 1007 E Worth St  
(910) 241-3239



Directions

### St. Pauls, Chamber of Commerce

No reviews

Chamber of Commerce · 210 W Blue St  
(910) 865-5164



Website



Directions

**"THE LITTLE TOWN WITH THE BIG HEART"**

The town's growth resulted in the establishment of an academy, Robeson Institute, in 1845. A 1925 paper reports that "It was a mixed school (gender), but was taught by competent teachers." In 1895 the academy burned and was never rebuilt. A new school combined with the Masonic Lodge, was built in 1886.

The textile industry flourished during the early part of this century with the building of three cotton mills by 1920. The worldwide depression of the 30's helped contribute to the selling of the mills in 1943 to Burlington Mills Corporation. While the textile industry has been in decline, other industries such as Watts Water Technologies and Prestige Farms have located and prospered in this area.

The railroad industry contributed much to the history of St. Pauls. The Virginia and Carolina Railroad, connecting St. Pauls with Lumberton and Elizabethtown and branching with the Atlantic Coast Line at Hope Mills, was built between 1907 and 1910 by the Atlantic Improvement Company. This influenced the surveying and sale of home lots and establishment of the business section next to the railway station. The town was incorporated in 1909, the same year of the town's first telephone line. An electric light line came to St. Pauls in 1912. Both of these local companies were bought in the 1920's by companies offering statewide service.

In 1923 St. Pauls was described as a "rosebud of nature's beauty" with its three cotton mills, flour mill, bank, newspaper, lumber company, ice company, three doctors, and three lawyers and "nice wide streets with plans to pave". Today, the area surrounding St. Pauls is known for its diversified farming and improving economic base.



It's all about Location! Our town is located in the northern area of Putnam County in Maryland on US-3, situated between Lumberton and the City of Fayetteville. Shopping and more is just a few minutes away. US-16 is also located 70 miles southeast of Raleigh via I-40 and I-40. Other major cities include Charlotte, 305 miles via US-74 and the port of Wilmington, 90 miles via US-74 and I-87. Just to our east is Florence, South Carolina and I-20. To our south and southeast are two great coastal vacation spots, The Villages, North Carola and coastal area includes many beautiful beaches such as Wrightsville, Hatteras, Kure and many more. For families, you can't beat Hatteras. There's even a famous "Nelly" County, which includes Myrtle Beach, North Myrtle Beach, Murrells-Hatchers, Garden City Beach, Surfside Beach, Atlantic Beach and the Little River. Enjoy the scenery and only 30 minutes away, you're able to access daily trips to one of the finest beaches on the east coast.

If you enjoy golf, then you've found your heaven. From Planting and Southern Pines, conveniently located just 45 minutes west, the Gregg's 18-hole Golf Course home to Raymond Floyd just up the road, down to the hundreds of courses surrounding Myrtle Beach, John's Island and areas south, you'll be able to play all day, every day and never on the same course!



Businesses will love our area due to the tremendous savings having major carrier routes located just minutes away! With plenty of available space to locate any size enterprise, and with our Industrial Park offering access to I-405 just 2 minutes away, you've got the room to spread out and grow the way you need to. But it gets even better!

Because we are located in a select economic zone, your business will qualify for a number of Federal, State and local incentives. And with our large available work force, technical colleges, Universities and training centers, you can rest assured your work force will be trained and ready to go! We'll even work on specialized training if your business requires it. We've got space and more available for your business to move in right away!



The Town of Littleton, Colorado, provides the water and sewer utilities. Lander River Properties supplies natural gas. Piedmont Natural Gas provides gas. Ilex and Boudreaux, Duquesne Energy Progress supplies the electricity. TownWaterCare LLC supplies high-speed Internet and CenturyLink has a subscription located in the center of town for high-speed DSL connections. While other municipalities are looking for ways to cut back on services, St. Paul continues to improve ours. Currently, the Town is undergoing a major upgrade to its water and sewer systems. Storm water drainage is also being upgraded. Recycling has just recently been added to residential curbside pickup service. Streetlights, sound conditioning and other improvements are being made as needed. Overall, the town has placed a greater emphasis on quality of life issues for our citizens under the current Town Board and Town Administrator.



Cablevision is available in St. Paul. The system offers a 32-channel service which includes the three major broadcast networks, five independents, an educational network, a package of sports, news, music, and children's programming, and four premium pay channels. The three major broadcast networks, Public Broadcast Network and several local independent networks are available over-the-air without Cablevision.



Prado has two medical doctors, two physician assistants (PAs), one chiropractor, one dental office, one optometrist, one podiatrist, one dietitian, one acupuncturist, one massage therapist, and four acupuncturists. Hospital facilities are provided in a 100-bed facility at Southeastern Regional Medical Center, SRMC with a medical staff of 60 physicians, providing health care services which include: Cardiac Marrow Treatment Center, Hematological Bone Marrow Health Agency, Hepatitis C, Hepatitis, HIV/AIDS, Infectious Diseases, Kidney, Liver, Multiple Myeloma, Neurology, Neurosurgery, Pediatrics, Pulmonary, Rheumatology, Transfusion Medicine, Vascular, and a 24-hour Intensive Care Unit and SRMC LifeLink® Plasma Center. Sr. Prado is also served by Copo Fear Hospital Systems in Australia.



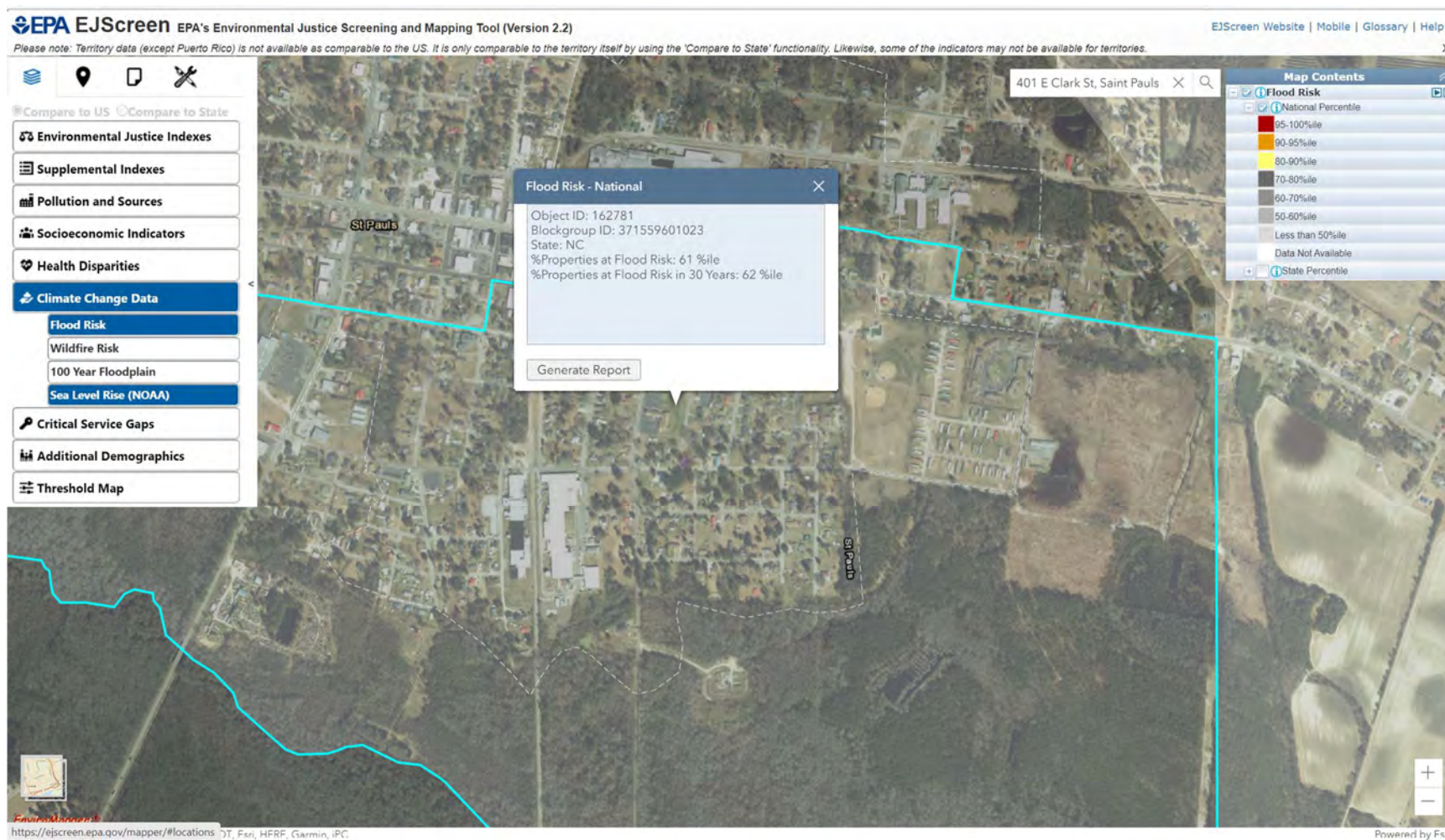
Public schools include elementary, one middle and one high school. Higher education is provided by Robeson Community College in Lumberton, NC 11 miles away, UNC at Pembroke, 15 miles from St. Pauls, is a 4-year institution which offers 53 undergraduate degrees and nine graduate programs. St. Andrews Presbyterian College in Lenoir is 20 miles from St. Pauls, Fayetteville State University, Methodist University and Fayetteville Technical Community College are located 20 miles away. The big four, The University of North Carolina at Chapel Hill, North Carolina State University, Duke University and Wake Forest University are located within a good driving distance from St. Pauls. Carolina, State, and Duke are 60 minutes driving time and Wake Forest is approximately a 3 hour drive.

Copyright © Town of St. Pauls, NC. | 210 West Blue Street, North Carolina 28384 | 919-955-5164 | Town of St. Pauls, NC

## **ATTACHMENT 19:**

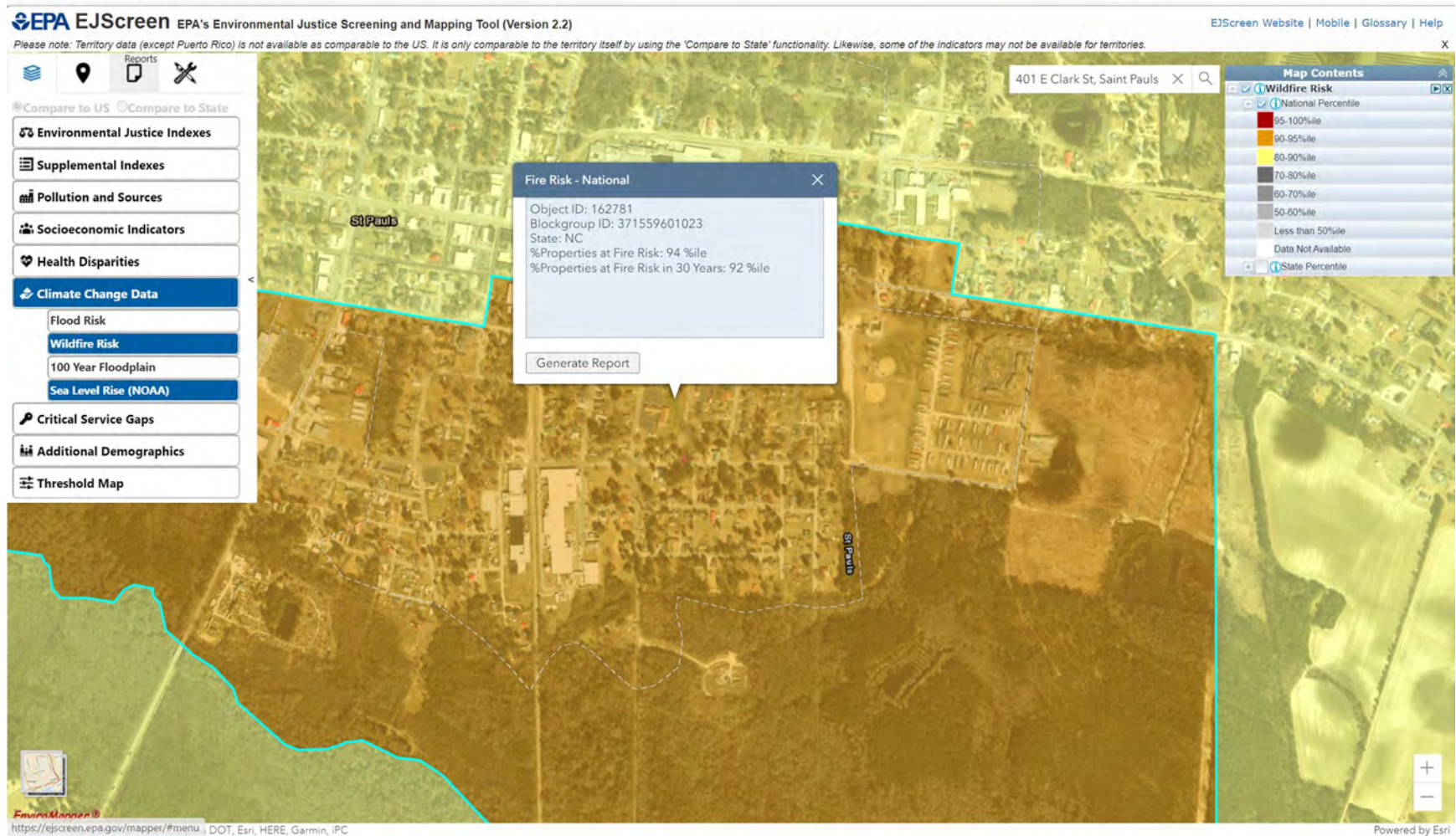
### **Climate Change**

# St. Pauls Flood Improvements – Flood Risk (EJSCREEN)

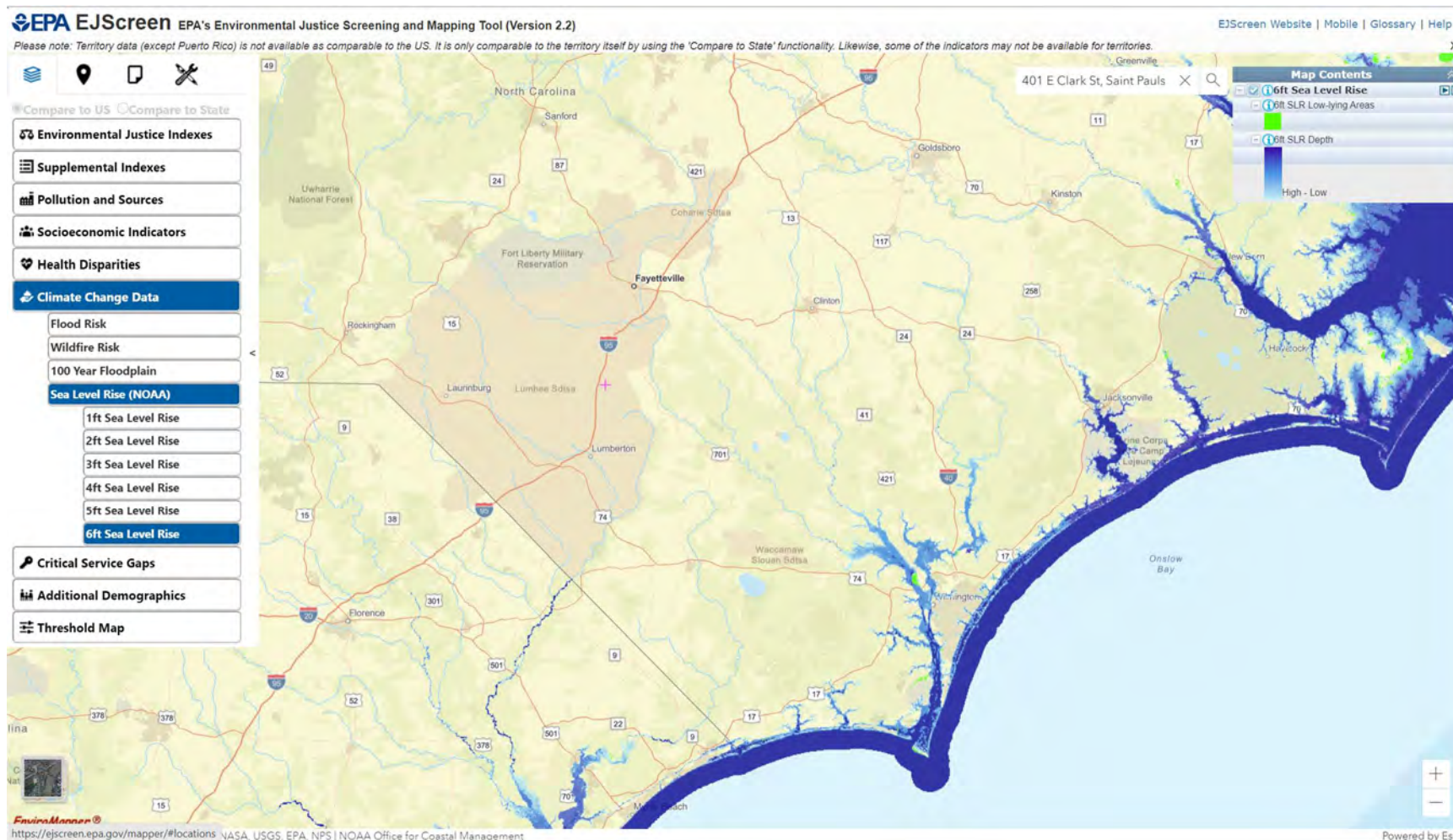




# St. Pauls Flood Improvements – Wildfire Risk (EJSCREEN)



# St. Pauls Flood Improvements – Sea Level Rise Risk (EJSCREEN)





Robeson County Hazard Report

37155  
Robeson County

Prepared by Esri

Hazard Report

Extreme Heat

Robeson County, North Carolina



Total Population  
132,596



Non-Hispanic White Population (%)  
75%



Income Below Poverty in Last 12 Mo (%)  
28%



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  
1.07

Expected Annual Loss Rating  
Relatively Moderate

Expected Annual Loss Total (\$)  
\$428,886.55

Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Century (2070 - 2099)	
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Temperature thresholds:							
Annual days with maximum temperature > 90°F	50 days	83 days	86 days	96 days	105 days	107 days	137 days
	50 - 58	58 - 103	65 - 104	64 - 117	79 - 123	77 - 130	99 - 159
Annual days with maximum temperature > 95°F	12 days	30 days	32 days	41 days	51 days	53 days	91 days
	10 - 15	13 - 47	18 - 54	17 - 63	25 - 74	25 - 85	40 - 119
Annual days with maximum temperature > 100°F	1 days	6 days	6 days	10 days	14 days	15 days	41 days
	1 - 2	1 - 13	2 - 16	2 - 25	2 - 39	4 - 25	10 - 82
Annual days with maximum temperature > 105°F	0 days	1 days	1 days	1 days	2 days	3 days	12 days
	0 - 0	0 - 2	0 - 3	0 - 4	0 - 16	0 - 11	0 - 45
Annual temperature:							
Annual single highest maximum temperature °F	99 °F	103 °F	103 °F	104 °F	105 °F	105 °F	109 °F
	99 - 100	99 - 104	100 - 105	100 - 107	101 - 110	101 - 109	103 - 115
Annual highest maximum temperature averaged over a 5-day period °F	96 °F	99 °F	99 °F	100 °F	101 °F	101 °F	105 °F
	95 - 97	96 - 101	97 - 102	96 - 103	97 - 106	98 - 105	100 - 111
Cooling degree days (CDD)	1838 degree-days	2,290 degree-days	2,332 degree-days	2,521 degree-days	2,711 degree-days	2,755 degree-days	3,510 degree-days
	1765 - 1931	1,973 - 2,641	2,054 - 2,578	2,068 - 2,953	2,274 - 3,186	2,277 - 3,302	2,746 - 4,352

N/A = Data Not Available for the selected area

Robeson County Hazard Report

37155  
Robeson County

Prepared by Esri

Hazard Report

Drought

Robeson County, North Carolina



Total Population  
132,596



Non-Hispanic White Population (%)  
75%



Income Below Poverty in Last 12 Mo (%)  
28%



Building Codes Hazard Resistance  
Lower Resistance



% Population Disadvantaged  
100.00%



[Explore additional data](#)



National Risk Index Rating  
Relatively High



according to the [FEMA National Risk Index](#)

Drought Annualized Frequency  
16.93

Expected Annual Loss Rating  
Relatively High

Expected Annual Loss Total (\$)  
\$3,982,393.05

Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Century (2070 - 2099)	
		Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
Precipitation:							
Average annual total precipitation	47" 45 - 49	48" 45 - 52	49" 44 - 52	49" 44 - 53	49" 45 - 54	50" 43 - 56	51" 42 - 58
Days per year with precipitation (wet days)	186 days 180 - 191	185 days 168 - 195	184 days 162 - 197	185 days 164 - 200	183 days 153 - 203	185 days 163 - 202	180 days 147 - 203
Days per year with no precipitation (dry days)	179 days 174 - 185	180 days 171 - 197	181 days 168 - 203	180 days 165 - 201	183 days 162 - 212	180 days 164 - 202	185 days 162 - 218
Maximum number of consecutive dry days	13 days 12 - 16	14 days 12 - 17	13 days 12 - 15	14 days 12 - 16	14 days 12 - 18	14 days 12 - 18	14 days 12 - 17
Temperature thresholds:							
Annual days with maximum temperature > 90 °F	50 days 50 - 58	83 days 58 - 103	86 days 65 - 104	96 days 64 - 117	105 days 79 - 123	107 days 77 - 130	137 days 99 - 159
Annual days with maximum temperature > 100 °F	1 days 1 - 2	6 days 1 - 13	6 days 2 - 16	10 days 2 - 25	14 days 2 - 39	15 days 4 - 25	41 days 10 - 82

## Robeson County Hazard Report

37155  
Robeson County

Prepared by Esri

### Hazard Report

## Wildfire

Robeson County, North Carolina



Total Population  
132,596



Non-Hispanic White Population (%)  
75%



Income Below Poverty in Last 12 Mo (%)  
28%



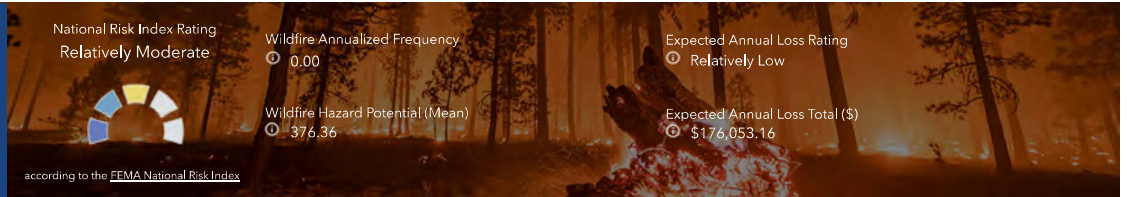
Building Codes Hazard Resistance  
Lower Resistance



% Population Disadvantaged  
100.00%



[Explore additional data](#)



### Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Century (2070 - 2099)	
	Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max
<strong>Precipitation:</strong>							
Days per year with no precipitation (dry days)	179 days 174 - 185	180 days 171 - 197	181 days 168 - 203	180 days 165 - 201	183 days 162 - 212	180 days 164 - 202	185 days 162 - 218
Maximum number of consecutive dry days	13 days 12 - 16	14 days 12 - 17	13 days 12 - 15	14 days 12 - 16	14 days 12 - 18	14 days 12 - 18	14 days 12 - 17
Days per year with precipitation (wet days)	186 days 180 - 191	185 days 168 - 195	184 days 162 - 197	185 days 164 - 200	183 days 153 - 203	185 days 163 - 202	180 days 147 - 203
<strong>Temperature thresholds:</strong>							
Annual days with maximum temperature > 90°F	50 days 50 - 58	83 days 58 - 103	86 days 65 - 104	96 days 64 - 117	105 days 79 - 123	107 days 77 - 130	137 days 99 - 159
Annual days with maximum temperature > 100°F	1 days 1 - 2	6 days 1 - 13	6 days 2 - 16	10 days 2 - 25	14 days 2 - 39	15 days 4 - 25	41 days 10 - 82

N/A = Data Not Available for the selected area

## Robeson County Hazard Report

37155  
Robeson County

Prepared by Esri

### Hazard Report

## Flooding

Robeson County, North Carolina



Total Population  
132,596



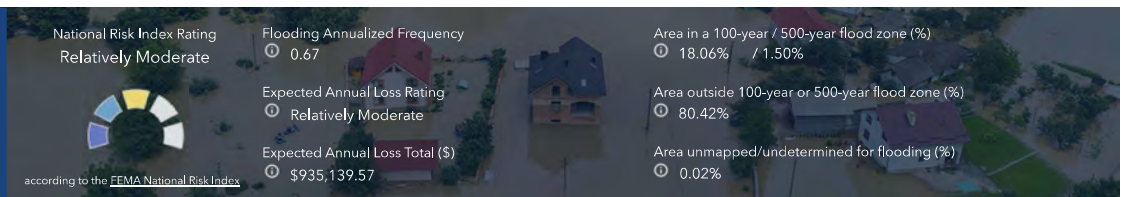
Non-Hispanic White Population (%)  
75%



Income Below Poverty in Last 12 Mo (%)  
28%



Building Codes Hazard Resistance  
Lower Resistance



### Future Climate Indicators

Indicator	Modeled History (1976 - 2005)	Early Century (2015 - 2044)		Mid Century (2035 - 2064)		Late Century (2070 - 2099)	
	Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max	Lower Emissions Min - Max	Higher Emissions Min - Max
<strong>Precipitation:</strong>							
Annual average total precipitation	47" 45 - 49	48" 46 - 50	49" 47 - 51	49" 47 - 51	49" 47 - 51	50" 48 - 52	51" 49 - 53





## **ATTACHMENT 20:**

### **State Environmental Clearinghouse Comments**

## **SCH Comments on Draft EA**



STATE OF NORTH CAROLINA  
DEPARTMENT OF ADMINISTRATION

Roy Cooper  
GOVERNOR

Pamela B. Cashwell  
Secretary

May 16, 2022

Andrea Gievers  
Town of St. Pauls  
c/o NC Department of Public Safety  
Office of Recovery and Resiliency  
Durham, NC 27709-

Re: SCH File # 22-E-4600-0214 Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance.

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 for your consideration 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.

Should you have any questions, please do not hesitate to call.

Sincerely,

CRYSTAL BEST  
State Environmental Review Clearinghouse

Attachments

*Mailing Address:*  
NC DEPARTMENT OF ADMINISTRATION  
1301 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1301

*Telephone:* (919)807-2425  
*Fax:* (919)733-9571  
*COURIER:* #51-01-00  
*Email:* [state.clearinghouse@doa.nc.gov](mailto:state.clearinghouse@doa.nc.gov)  
*Website:* [www.ncadmin.nc.gov](http://www.ncadmin.nc.gov)

*Location:*  
116 WEST JONES STREET  
RALEIGH, NORTH CAROLINA



Control No.: 22-E-4600-0214

Date Received: 4/13/2022

County.: ROBESON

Agency Response: 5/13/2022

Review Closed: 5/13/2022

LYN HARDISON  
CLEARINGHOUSE COORDINATOR  
DEPT OF ENVIRONMENTAL QUALITY

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☐ No Comment

☐ Comments Below

☒ Documents Attached

Reviewed By: LYN HARDISON

Date: 5/12/2022



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

ELIZABETH S. BISER  
Secretary

To: Crystal Best  
State Clearinghouse  
NC Department of Administration

From: Lyn Hardison  
Division of Environmental Assistance and Customer Service  
Washington Regional Office

RE: 22-0214  
Environmental Assessment – Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping for the conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.  
Robeson County

Date: May 12, 2022

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 to help minimize impacts to aquatic, terrestrial wildlife, and natural resources. The comments are attached for the applicant's review. 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



North Carolina Department of Environmental Quality

217 West Jones Street | 1601 Mail Service Center | Raleigh, North Carolina 27699-1601

919.707.8600



☒ NORTH CAROLINA WILDLIFE RESOURCES COMMISSION ☒

Cameron Ingram, Executive Director

**MEMORANDUM**

TO: Lyn Hardison, Environmental Assistance Coordinator  
NCDEQ Division of Environmental Assistance and Customer Services

FROM: Gabriela Garrison  
Eastern Piedmont Coordinator  
Habitat Conservation *Gabriela Garrison*

DATE: May 11, 2022

SUBJECT: Comments for Environmental Review for Town of St. Pauls Stormwater Conveyance Infrastructure Upgrade, Robeson County, DEQ Project No. 22-0214.

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the subject document. Comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e), North Carolina Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25) and North Carolina General Statutes (G.S. 113-131 et seq.).

The Town of St. Pauls (Town) proposes a system of stormwater improvements that will carry future stormwater events south of residential areas and connect with the Town's stormwater processing infrastructure. Proposed improvements will include catch basins and varying sizes of reinforced concrete piping, buried underground in previously disturbed areas. The project would be implemented in the vicinity of South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

Aerial images and maps indicate Big Marsh Swamp flows south of the proposed project area. Placing fill in aquatic systems or impacting riparian buffers can alter hydrology, resulting in significant negative impacts to downstream areas and eliminating aquatic and terrestrial wildlife habitat. In addition, increased stormwater runoff can impact stream morphology. This will cause further degradation of aquatic habitat through accelerated stream bank erosion, channel and bedload changes, altered substrates, and scouring of stream channels. Pollutants (e.g., sediment, heavy metals, pesticides, and fertilizers) washed from developed landscapes can adversely affect and extirpate aquatic species downstream. As such, riparian habitat and floodplains are extremely valuable for conveying flood waters, thereby reducing the severity and frequency of large flooding events. This important feature has become increasingly significant as severe storm events have become more prevalent in recent years. The NCWRC offers the following recommendations to minimize impacts to aquatic and terrestrial wildlife resources:

1. Maintain a minimum 100-foot undisturbed, native, forested buffer along perennial streams, and a minimum 50-foot buffer along intermittent streams and wetlands. Maintaining undisturbed, forested buffers along these areas will minimize impacts to aquatic and terrestrial wildlife resources. Wide riparian buffers are helpful in maintaining stream bank stability. In addition, these buffers provide a travel corridor for wildlife species. Lay down

May 11, 2022

Town of St. Pauls Stormwater Conveyance Infrastructure Upgrade

DEQ Project No. 22-0214

and staging areas should be located outside wetland areas and at least 100 feet from stream banks.

2. The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. In addition to providing wildlife habitat, wetland areas and streams aid in flood control and water quality protection. United States Army Corps of Engineers Section 404 Permits and NC Division of Water Resources Section 401 Certifications are required for any impacts to jurisdictional streams or wetlands. Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.
3. Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife. Avoid fescue-based mixtures as fescue is invasive and provides little benefit to wildlife. Native, annual small grains appropriate for the season are preferred and recommended. Pollinator mixes are commercially available and provide forage and shelter for numerous species of bees, butterflies, moths, and birds.
4. Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Silt fencing, fiber rolls and/or other products should have loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines. Silt fencing and similar products that have been reinforced with plastic or metal mesh should be avoided as they impede the movement of terrestrial wildlife species. Excessive silt and sediment loads can have detrimental effects on aquatic resources including destruction of spawning habitat, suffocation of eggs, and clogging of gills.

The NCWRC encourages the applicant to consider additional measures to protect aquatic and terrestrial wildlife species in developing landscapes. The NCWRC's *Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality* (August 2002; [http://www.ncwildlife.org/Portals/0/Conserving/documents/2002\\_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf](http://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf)) details measures to minimize secondary and cumulative impacts to aquatic and terrestrial wildlife resources; in addition, the Green Growth Toolbox (<https://www.ncwildlife.org/conserving/programs/Green-Growth-Toolbox>) provides information on nature-friendly planning that discusses how to address growth while concurrently conserving priority terrestrial and aquatic habitat.

Thank you for the opportunity to review and comment on this project. If I can be of further assistance, please contact me at (910) 409-7350 or [gabriela.garrison@ncwildlife.org](mailto:gabriela.garrison@ncwildlife.org).





## MEMORANDUM

TO: Michael Scott, Division Director through Sharon Brinkley

FROM: Drew Hammonds, Eastern District Supervisor - Solid Waste Section

DATE: April 28, 2022

SUBJECT: Review: SW 22-0214 – Robeson County (EA – Town of St. Pauls – Proposed project is for the installation of upgrades to stormwater conveyance structures)

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The Division of Waste Management, Solid Waste Section (Section) has reviewed the documents submitted for the subject project in Robeson 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.

As always for any planned or proposed projects, it is recommended that during any land clearing, demolition and construction, the Town of St Pauls 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 projects that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility permitted by the Division. The Section strongly recommends that the Town of St Pauls 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>

There is a closed demolition landfill (78A-Demo- 1980) south of and adjacent to the WWTP that doesn't appear to be in the proposed construction area but should not be disturbed.

Questions regarding solid waste management for this project should be directed to Mr. David Powell, Environmental Senior Specialist, Solid Waste Section, at (910) 433-3350.

cc: David Powell, Environmental Senior Specialist



State of North Carolina Department of Environmental Quality  
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: FRO  
Project Number: 22-2014 Due Date: 05/11/2022  
County: Robeson

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)
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	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)
<input type="checkbox"/>	Water Use Permit	Pre-application technical conference usually necessary.	30 days (N/A)
<input type="checkbox"/>	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)
<input type="checkbox"/>	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)
<input type="checkbox"/>	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.0100 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
<input checked="" type="checkbox"/>	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
<input type="checkbox"/>	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)
<input type="checkbox"/>	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)
<input type="checkbox"/>	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)
<input type="checkbox"/>	Sedimentation and erosion control must be addressed in accordance with _____ <b>Local Government's</b> 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
<input type="checkbox"/>	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.		
<input type="checkbox"/>	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)
<input type="checkbox"/>	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)

State of North Carolina Department of Environmental Quality  
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: FRO  
Project Number: 22-2014 Due Date: 05/11/2022  
County: Robeson

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (Statutory time limit)
<input type="checkbox"/>	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)
<input type="checkbox"/>	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)
<input type="checkbox"/>	Oil Refining Facilities	N/A	90-120 days (N/A)
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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)
<input type="checkbox"/>	Compliance with Catawba, Goose Creek, Jordan Lake, Randleman, Tar Pamlico or Neuse Riparian Buffer Rules is required. Buffer requirements: <a href="http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program">http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program</a>		
<input type="checkbox"/>	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: <a href="http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information">http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information</a>		
<input type="checkbox"/>	CAMA Permit for MAJOR development	\$250.00 - \$475.00 fee must accompany application	75 days (150 days)
<input type="checkbox"/>	CAMA Permit for MINOR development	\$100.00 fee must accompany application	22 days (25 days)
<input checked="" type="checkbox"/>	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
<input checked="" type="checkbox"/>	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	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.		

State of North Carolina Department of Environmental Quality  
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: FRO  
Project Number: 22-2014 Due Date: 05/11/2022  
County: Robeson

Other Comments (attach additional pages as necessary, being certain to comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ	JDC	<input checked="" type="checkbox"/>		4/13/2022
DWR-WQROS (Aquifer & Surface)	KMB &KMB	<input checked="" type="checkbox"/>	&	4/22/2022
DWR-PWS	HLC	<input type="checkbox"/>	If new water lines will be installed or existing water lines relocated as part of this project, plans, specifications, and other reports will need to be submitted to the Public Water Supply Section before construction begins.	4/27/2022
DEMLR (LQ & SW)	MAJ	<input type="checkbox"/>	A sedimentation and erosion control plan will need to be submitted to and approved by DEMLR, followed by obtaining a Certificate of Coverage prior to initiation of the project.	4/27/22
DWM – UST	KEC	<input type="checkbox"/>	The UST Section, Fayetteville Regional Office, does not have record of a petroleum release in the general area of the proposed project area, nor are there any records of registered USTs within this area. Note: Incident #29422, St. Pauls Well 2, was created for tracking purposes. Low levels of MTBE were detected and evaluated by a State Toxicologist. No definitive source could be determined. Town officials were notified of the MTBE detections in Well 2 which was to be monitored within the scope of their regulatory requirements with the Public Water Supply Section. This tracking incident was closed out on the UST Section RUST database on 6/21/2016. Lastly, there is one commercial / non-regulated, 10,000 gallon fuel oil UST registered at Carolina Mills Plant #25, 107 Clark Street, St. Pauls as well as at least one identified aboveground storage tank at this location with contents unknown. No petroleum releases have been reported at 107 Clark Street.	4/14/22
Other Comments		<input type="checkbox"/>		/ /

**REGIONAL OFFICES**

Questions regarding these permits should be addressed to the Regional Office marked below.

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> <b>Asheville Regional Office</b><br>2090 U.S. 70 Highway<br>Swannanoa, NC 28778-8211<br>Phone: 828-296-4500<br>Fax: 828-299-7043 | <input checked="" type="checkbox"/> <b>Fayetteville Regional Office</b><br>225 Green Street, Suite 714,<br>Fayetteville, NC 28301-5043<br>Phone: 910-433-3300<br>Fax: 910-486-0707 | <input type="checkbox"/> <b>Mooresville Regional Office</b><br>610 East Center Avenue, Suite 301,<br>Mooresville, NC 28115<br>Phone: 704-663-1699<br>Fax: 704-663-6040 |
| <input type="checkbox"/> <b>Raleigh Regional Office</b><br>3800 Barrett Drive,<br>Raleigh, NC 27609<br>Phone: 919-791-4200<br>Fax: 919-571-4718           | <input type="checkbox"/> <b>Washington Regional Office</b><br>943 Washington Square Mall,<br>Washington, NC 27889<br>Phone: 252-946-6481<br>Fax: 252-975-3716                      | <input type="checkbox"/> <b>Wilmington Regional Office</b><br>127 Cardinal Drive Ext.,<br>Wilmington, NC 28405<br>Phone: 910-796-7215<br>Fax: 910-350-2004             |
|   | <input type="checkbox"/> <b>Winston-Salem Regional Office</b><br>450 Hanes Mill Road, Suite 300,<br>Winston-Salem, NC 27105<br>Phone: 336-776-9800<br>Fax: 336-776-9797            |  |



ROY COOPER  
Governor  
ELIZABETH S. BISER  
Secretary  
MICHAEL SCOTT  
Director



Date: May 9, 2022

To: Michael Scott, Director  
Division of Waste Management

Through: Janet Macdonald  
Inactive Hazardous Sites Branch

From: Bonnie S. Ware  
Inactive Hazardous Sites Branch

Subject: NEPA Project # 22-0214, Town of St. Pauls, Robeson County, North Carolina

The Superfund Section has reviewed the proximity of sites under its jurisdiction to the Town of St. Pauls project. Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

No (0) Superfund Section sites were identified within one mile of the project as shown on the attached report.

Please contact Janet Macdonald at 919.707.8349 if you have any questions concerning the Superfund Section review portion of this SEPA/NEPA inquiry.



North Carolina Department of Environmental Quality | Division of Waste Management  
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646  
919.707.8200

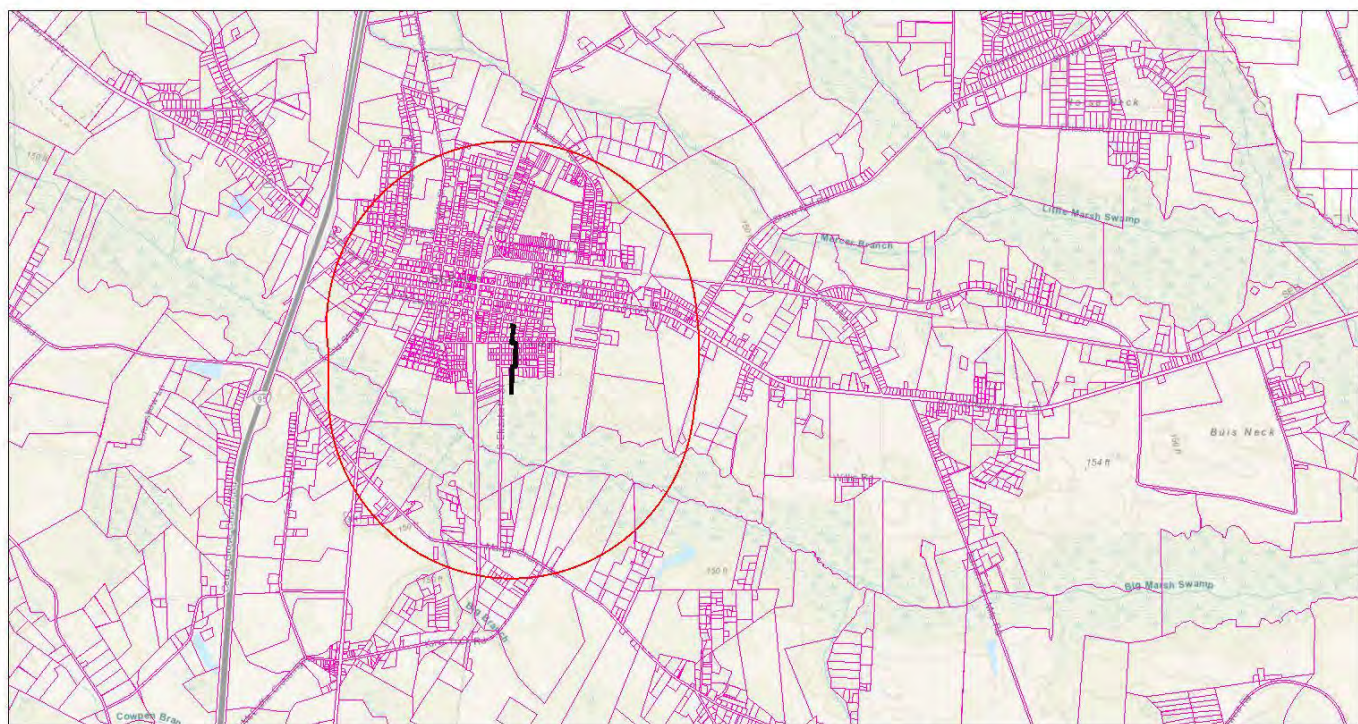


## SUPERFUND SECTION SITES ONLY : SEPA/NEPA

### Area of Interest (AOI) Information

Area : 2,506.36 acres

May 9 2022 13:24:12 Eastern Daylight Time



Parcels (Polygons) - Parcels

1:36,112  
0 0.38 0.75 1.5 mi  
0 0.5 1 2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Superfund Section Sites Only : 22-0214 Robeson County

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	0	N/A	N/A
Brownfields Program Sites	0	N/A	N/A

Control No.: 22-E-4600-0214

Date Received: 4/13/2022

County.: ROBESON

Agency Response: 5/13/2022

Review Closed: 5/13/2022

JINTAO WEN  
CLEARINGHOUSE COORDINATOR  
DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JINTAO WEN

Date: 5/2/2022



Control No.: 22-E-4600-0214

Date Received: 4/13/2022

County.: ROBESON

Agency Response: 5/13/2022

Review Closed: 5/13/2022

JEANNE STONE  
CLEARINGHOUSE COORDINATOR  
DEPT OF TRANSPORTATION

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JEANNE STONE

Date: 4/13/2022

## **SCH Comments on Early Notice**



Roy Cooper  
Governor

Pamela B. Cashwell  
Secretary

June 27, 2023

Andrea Gievers  
Town of St. Pauls  
c/o NC Department of Public Safety  
Office of Recovery and Resiliency  
Durham, NC 27709-

Re: SCH File # 23-E-4600-0249 Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance.

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.

No comments were made during 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,

CRYSTAL BEST  
State Environmental Review Clearinghouse

#### Attachments

Mailing  
1301 Mail Service Center | Raleigh, NC 27699-1301



[ncadmin.nc.gov](http://ncadmin.nc.gov)

Location  
116 West Jones St. | Raleigh NC 27603  
984-236-0000 T

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

DEVON BORGARDT  
CLEARINGHOUSE COORDINATOR  
DEPT OF NATURAL & CULTURAL  
RESOURCE

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☐ No Comment

☐ Comments Below

☒ Documents Attached

Reviewed By: DEVON BORGARDT

Date: 7/6/2023





**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.

July 3, 2023

**MEMORANDUM**

**TO:** Crystal Best [crystal.best@doa.nc.gov](mailto:crystal.best@doa.nc.gov)  
North Carolina State Clearinghouse  
Department of Administration

**FROM:** Ramona M. Bartos, Deputy  
State Historic Preservation Officer *RMB for Ramona M. Bartos*

**SUBJECT:** Flood improvements, South Johnson, East Clark, South Elizabeth and East Ross Streets, St. Pauls, Robeson County, 23-E-4600-0249, ER 23-1289

Thank you for your submission of May 26 and June 2, 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@ncdcr.gov](mailto:environmental.review@ncdcr.gov). In all future communication concerning this project, please cite the above referenced tracking number.

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

LYN HARDISON  
CLEARINGHOUSE COORDINATOR  
DEPT OF ENVIRONMENTAL QUALITY

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: LYN HARDISON

Date: 6/22/2023

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

JINTAO WEN  
CLEARINGHOUSE COORDINATOR  
DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JINTAO WEN

Date: 6/21/2023

Control No.: 23-E-4600-0249

Date Received: 6/13/2023

County.: ROBESON

Agency Response: 6/23/2023

Review Closed: 6/23/2023

JESSICA MOSLEY  
CLEARINGHOUSE COORDINATOR  
DEPT OF TRANSPORTATION

Project Information

Type: National Environmental Policy Act ironmental Assessment

Applicant: Town of St. Pauls

Project Desc.: Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☒ No Comment

☐ Comments Below

☐ Documents Attached

Reviewed By: JESSICA MOSLEY

Date: 6/21/2023