

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

March 12, 2012

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue Room 208 Asheville, NC 28801-5006

ATTN: Liz Hair

NCDOT Coordinator

Subject: Application for Regional General Permit 198200031 and General 401 for

the proposed replacement of Bridge No. 95 over South Fork Catawba River on SR 2019 (Rocky Ford Road) in Catawba County, Federal Aid Project No. BRZ-2019(2); Division 12; TIP No. B-4458; WBS 38375.1.1; Debit \$240.00

Dear Ms. Hair:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 95, a 76-foot double-span bridge over South Fork Catawba River on Rocky Ford Road (SR 2019), with a 200-foot triple-span bridge to the south on new location. No in-stream work is required for bridge removal. There will be 132 linear feet of permanent impacts from the use of riprap for bank stabilization at ditch outfalls and at the proposed bridge. There are 42.4 square feet of permanent impacts in surface water due to proposed bridge interior bents. There are 0.02 acres of temporary impacts in surface waters associated with causeways required for construction of the new structure.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachments, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

Please see enclosed copies of the Pre-Construction Notification (PCN) Form, Stormwater Management Plan, Permit drawings and Design plans. The Categorical Exclusion (CE) was completed on October 31, 2011. Documents were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of November 20, 2012 and a review date of October 2, 2012; however the let date may advance as additional funding becomes available. A copy of this permit application and its distribution list will be posted on the NCDOT website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please call Jennifer Harrod at (919) 707-6124.

Sincerely.

Gregory J. Thorpe, Ph.D. Manager

Project Development and Environmental Analysis Unit

Cc: NCDOT Permit Application Standard Distribution List File





| Office Use Only: | |
|------------------------------|--|
| Corps action ID no. | |
| DWQ project no | |
| Form Version 1.3 Dec 10 2008 | |

| | Pre-Construction Notification (PCN) Form | | | | | | |
|-----|--|----------------------|--|-------------------|--|--|--|
| A. | Applicant Information | | | | | | |
| 1. | Processing | | | | | | |
| 1a. | a. Type(s) of approval sought from the Corps: □ Section 404 Permit □ Section 10 Permit | | | | | | |
| 1b. | Specify Nationwide Permit (NWP) | number: | or General Permit (0 | GP) number: 198 | 3200031 | | |
| 1c. | Has the N WP or GP number beer | n verified b | y the Corps? | Yes | ⊠ No | | |
| 1d. | Type(s) of approval sought from t | he DWQ (d | check all that apply): | | | | |
| | | | | ıl General Permit | 1 | | |
| | ☐ 401 Water Quality Certification | _ | | rization | | | |
| 1e. | Is this notification solely for the re because written approval is not re | | For the record only for DWQ 401 Certification: | For the record of | only for Corps Permit: | | |
| | | | ☐ Yes | ☐ Yes | ⊠ No | | |
| 1f. | f. 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 | | |
| 1g. | 1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below. ☐ Yes ☑ No | | | | ⊠ No | | |
| 1h. | Is the project located within a NC | DCM Area | a of Environmental Concern (AEC)? | ☐ Yes | ⊠ No | | |
| 2. | Project Information | | | | | | |
| 2a. | . Name of project: | Replacen Ford Roa | nent of Bridge No. 95 over the South | Fork Catawba R | iver on SR 2019 (Rocky | | |
| 2b | . County: | Catawba | | | | | |
| 2c. | . Nearest municipality / town: | Startown | | | | | |
| | . Subdivision name: | not applic | cable | | and the same of th | | |
| 2e | . NCDOT only, T.I.P. or state project no: | B-4458 | | | | | |
| 3. | Owner Information | | | | | | |
| 3a | . Name(s) on Recorded Deed: | North Ca | rolina Department of Transportation | | | | |
| | Deed Book and Page No. | not applie | cable | | | | |
| Зс | c. Responsible Party (for LLC i f applicable): not applicable | | | | 200 April 100 Ap | | |
| 3d | I. Street address: | | il Service Center | | | | |
| 3е | e. City, state, zip: | Raleigh, | NC 27699-1598 | | | | |
| | . Telephone no.: | (919) 70 | 7-6124 | | 100 | | |
| 39 | j. Fax no.: | (919) 212 | 2-5785 | | | | |
| 3h | 3h. Email address: jwharrod@ncdot.gov | | | | | | |

| 4. | Applicant Information (if different from owner) | | | | |
|-----|---|-------------------|-----------------|--|--|
| 4a. | Applicant is: | ☐ Agent | Other, specify: | | |
| 4b. | Name: | not applicable | | | |
| 4c. | Business name (if applicable): | | · | | |
| 4d. | Street address: | | | | |
| 4e. | City, state, zip: | | | | |
| 4f. | Telephone no.: | | | | |
| 4g. | Fax no.: | | | | |
| 4h. | Email address: | | | | |
| 5. | Agent/Consultant Information | n (if applicable) | | | |
| 5a. | Name: | not applicable | | | |
| 5b. | Business name (if applicable): | | | | |
| 5c. | Street address: | | | | |
| 5d. | City, state, zip: | | | | |
| 5e. | Telephone no.: | | | | |
| 5f. | Fax no.: | | | | |
| 5g | Email address: | | | | |

| В. | Project Information and Prior Project History | | | | | |
|-----|---|---|--|--|--|--|
| 1. | Property Identification | | | | | |
| 1a. | Property identification no. (tax PIN or parcel ID): | not applicable | | | | |
| 1b. | Site coordinates (in decimal degrees): | Latitude: 35.613309 | | | | |
| 1c. | Property size: | 3.5 acres | | | | |
| 2. | Surface Waters | | | | | |
| 2a. | Name of nearest body of water (stream, river, etc.) to proposed project: | South Fork Catawba River | | | | |
| 2b. | Water Quality Classification of nearest receiving water: | WS-V | | | | |
| 2c. | River ba sin: | Catawba | | | | |
| 3. | Project Description | | | | | |
| 3a. | Describe the existing conditions on the site and the general lan application: Rural residential and agricultural land | nd use in the vicinity of the project at the time of this | | | | |
| 3b. | b. List the total estimated acreage of all existing wetlands on the property: 0 | | | | | |
| 3c. | 3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 233 ft. | | | | | |
| 3d | . Explain the purpose of the proposed project: To replace a structurally deficient bridge. | | | | | |
| 3e | . Describe the overall project in detail, including the type of equi The project involves replacing a 76-foot double-span bridge wi location. Traffic will be maintained on the existing bridge durin trucks, dozers, and cranes will be used. | ith a 200-foot triple-span bridge to the south on new | | | | |
| 4. | Jurisdictional Determinations | | | | | |
| 4a | Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: | ☐ Yes | | | | |
| 4b | o. If the Corps made the jurisdictional determination, what type of determination was made? | ☐ Preliminary ☐ Final | | | | |
| 40 | . If yes, who delineated the jurisdictional areas? Name (if known): | Agency/Consultant Company: Other: | | | | |
| 40 | I. If yes, list the dates of the Corps jurisdictional determinations | or State determinations and attach documentation. | | | | |
| 5. | Project History | | | | | |
| 5a | a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past? | ☐ Yes ☐ Unknown | | | | |
| 5k | o. If yes, explain in detail according to "help file" instructions. | | | | | |
| 6. | Future Project Plans | | | | | |
| 68 | a. Is this a phased project? | ☐ Yes ⊠ No | | | | |
| 6k | p. If yes, explain. | | | | | |

| C. Proposed Impa | acts Inventory | | | | | |
|---|-------------------------------|-----------------------------------|-----------------------|---|-----------------|-----------------------------|
| 1. Impacts Summ | ary | | | | | |
| 1a. Which sections | were completed be | low for your project (| check all that a | pply): | | |
| ☐ Wetlands | ⊠s | treams - tributaries | ☐ Buf | fers | | |
| ☐ Open Waters | s □P | ond Construction | | | | |
| 2. Wetland Impac | ts | | | | | |
| • | | on the site, then comp | olete this quest | ion for each wetland a | rea impacted | |
| 2a. | 2b. | 2c. | 2d. | 2e. | | 2f. |
| Wetland impact number – Permanent (P) or Temporary (T) | Type of impact | Type of wetland (if known) | Forested | Type of jurisdic (Corps - 404, DWQ – non-404, | 10 | Area of impact (acres) |
| Site 1 P T | | | ☐ Yes | Corps | | |
| | | | ☐ No ☐ Yes | ☐ DWQ ☐ Corps | | |
| Site 2 P T | | | □ No | DWQ | | |
| Site 3 ☐ P ☐ T | | | Yes | Corps | | |
| | | | ☐ No ☐ Yes | DWQ Corps | | |
| Site 4 P T | | | □ No | DWQ | | |
| Site 5 🔲 P 🔲 T | | | ☐ Yes ☐ No | ☐ Corps ☐ DWQ | | |
| | | | Yes | ☐ DVVQ | | |
| Site 6 P T | | | □No | DWQ | | |
| | | | | 2g. Total wetlan | d impacts | X Permanent X Temporary |
| 2h. Comments: | | | | | | |
| 3. Stream Impact | | | | | | |
| If there are perennial question for all stream | | eam impacts (includi | ng temporary ir | npacts) proposed on t | he site, then o | complete this |
| 3a. | 3b. | 3c. | 3d. | 3e. | 3f. | 3g. |
| Stream impact | Type of impact | Stream name | Perennial | Type of | Average | Impact length (linear feet) |
| number - Permanent (P) or | | | (PER) or intermittent | jurisdiction (Corps - 404, 10 | stream width | (iiileai leet) |
| Temporary (T) | | | (INT)? | DWQ - non-404, | (feet) | |
| | Rip Rap | | | other) | | |
| Site 1 🛛 P 🗌 T | Bank Stabilization | South Fork Catawba River | ⊠ PER □ INT | ⊠ Corps □ DWQ | 50 | 114 ft |
| Site 1 ☐ P ⊠ T | Fil (work pad) | South Fork Catawba River | ⊠ PER □ INT | ⊠ Corps □ DWQ | 50 | 0.02 ac |
| Site 1 N D T | Fill | South Fork | ⊠ PER | ☐ DVQ | F0 | 40.04 == |
| Site 1 🛛 P 🗌 T | (interior bents) | Catawba River | □ INT | ☐ DWQ | 50 | <0.01 ac |
| Site 2 P T | Rip Rap Bank Stabilization | UT to South Fork Catawba River | ⊠ PER □ INT | ⊠ Corps □ DWQ | 4 | 18 ft |
| | | | 3h. T | otal stream and tribu | ıtary impacts | 132 Perm 0.02 Temp |
| 3i. Comments: | | | | | | |

| 4. Open | Water Impacts | 5 | | | | | | | | |
|-------------------|--|------------------|----------|------------------------------------|-------------|---------------------------|-------------|-----------|-----------------|--------------|
| | f there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below. | | | | | | | | | |
| 4a. | 4b. | | 4c. | | | | 4d. | | 4e. | |
| Open w impact nur | | Name of aterbody | | Type | of impact | | Waterbod | v tvpe | Area of im | pact (acres) |
| Permanen | t(P)or (ifa | applicable) | | 71 | | | | , ., , | 7 11 04 07 1111 | p () |
| Tempora O1 ☐ P | | | | | | | | | **** | |
| | Т | | | | | | | · | | |
| 03 🗆 P | Т | | | | | | | | | |
| 04 🗌 P | Т | | | | | - | | | | |
| | 4f. Total open water impacts X Permanent X Temporary | | | | | | - | | | |
| 4g. Comm | ents: | | | | | | | | | |
| 5. Pond | or Lake Cons | truction | | | | | | | | |
| | lake constructi | on proposed, | then com | plete | the chart b | elow. | | | | |
| 5a. | 5b. | | 5c. | .411 | 1 | | 5d. | | 1- (5 - 1) | 5e. |
| Pond ID | Propose | d use or | VVE | etland Impacts (acres) Stream Impa | | cts (feet) Upland (acres) | | | | |
| number | purpose | of pond | Flood | ed | Filled | Excavat ed | Flooded | Filled | Excavated | Flooded |
| P1 | | | | | | | | | | |
| P2 | | | | | | | | | | |
| | | 5f. Total | | | | | | | | |
| 5g. Comm | ents: | | | | | | | | | |
| 5h. Is a da | 5h. Is a dam high hazard permit required? | | | ΠY | es | ☐ No | If yes, per | mit ID no | : | |
| 5i. Expe | 5i. Expected pond surface area (acres): | | | | | | | | | |
| 5j. Size | of pond waters | hed (acres): | | | | | | | | |
| 5k. Metho | 5k. Method of construction: | | | | | | | | | |

| 6. Buffer Impacts (for DWQ) | | | | | | | |
|--------------------------------|--|-------------|----------------------|---------------|---------------|--|--|
| | If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form. | | | | | | |
| 6a. | | | ☐ Neuse | ☐ Tar-Pamlico | Other: | | |
| Project is in which p | protected basin? | | ☐ Catawba | Randleman | | | |
| 6b. | 6c. | 6d. | 6e. | 6f. | 6g. | | |
| Buffer impact number – | Reason for impact | | Buffer | Zone 1 impact | Zone 2 impact | | |
| Permanent (P) or Temporary (T) | | Stream name | mitigation required? | (square feet) | (square feet) | | |
| B1 P T | | | Yes | | | | |
| В ЦГЦ Г | | | □ No | | | | |
| B2 □ P □ T | | | │ | | | | |
| | | | ∐ No ∏ Yes | + | | | |
| B3 □ P □ T | | | ☐ Yes | | | | |
| | 6h. Total buffer impacts | | | | | | |
| 6i. Comments: | | | | | | | |

| D. | Impact Justification and Mitigation | | | | | |
|-----|--|----------------------------------|--|--|--|--|
| 1. | Avoidance and Minimization | | | | | |
| 1a. | Specifically describe measures taken to avoid or minimize t | he proposed impacts in | n designing project. | | | |
| | The proposed bridge is a triple-span structure that is 124 feet longer than the existing bridge; traffic will be maintained on the existing bridge during construction; 3:1 fill slopes where practicable; the placement of the new bridge minimizes impacts to the UT-South Fork Catawba River. | | | | | |
| 1b. | Specifically describe measures taken to avoid or minimize t | he proposed impacts t | hrough construction techniques. | | | |
| | A temporary causeway will be utilized to construct the new structure; surficial bridge runoff will not be directed into the South Fork Catawba River or the UT via deck drains, stormwater will be managed via roadside ditches. Design Standards in Sensitive Watersheds will be adhered to. | | | | | |
| 2. | Compensatory Mitigation for Impacts to Waters of the U | J.S. or Waters of the | State | | | |
| | | ☐ Yes | | | | |
| 2a | Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? | | nent impacts are due to the use of rip tion and is not considered a loss of the USACE. | | | |
| 2b | . If yes, mitigation is required by (check all that apply): | ☐ DWQ ☐ Co | rps | | | |
| | | ☐ Mitigation bank | | | | |
| 2c | . If yes, which mitigation option will be used for this project? | ☐ Payment to in-lieu fee program | | | | |
| | project: | ☐ Permittee Respo | nsible Mitigation | | | |
| 3. | Complete if Using a Mitigation Bank | | | | | |
| 3a | . Name of Mitigation Bank: not applicable | | | | | |
| 3b | . Credits Purchased (attach receipt and letter) | Туре | Quantity | | | |
| 30 | . Comments: | | | | | |
| 4. | Complete if Making a Payment to In-lieu Fee Program | | | | | |
| 4a | . Approval letter from in-lieu fee program is attached. | ☐ Yes | | | | |
| 4b | . Stream mitigation requested: | linear feet | | | | |
| 40 | . If using stream mitigation, stream temperature: | ☐ warm ☐ co | ool | | | |
| 40 | I. Buffer mitigation requested (DWQ only): | square feet | | | | |
| 46 | e. Riparian wetland mitigation requested: | acres | | | | |
| 4f | Non-riparian wetland mitigation requested: | acres | | | | |
| 49 | . Coastal (tidal) wetland mitigation requested: | acres | | | | |
| 4t | n. Comments: | | | | | |
| 5. | Complete if Using a Permittee Responsible Mitigation | Plan | | | | |
| 58 | ia. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan. | | | | | |

| 6. Buffe | Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ | | | | | | | |
|----------|---|----------------------------|----------------------|-----------------------------------|--|--|--|--|
| | 6a. Will the project result in an impact within a protected riparian buffer that requires | | | | | | | |
| | 6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required. | | | | | | | |
| | 6c. | 6d. | | 6e. | | | | |
| Zone | Reason for impact | Total impact (square feet) | Multiplier | Required mitigation (square feet) | | | | |
| Zone 1 | | | 3 (2 for Catawba) | | | | | |
| Zone 2 | | | 1.5 | | | | | |
| | | 6f. Total buffer | mitigation required: | | | | | |
| | 6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund). | | | | | | | |
| 6h. Comn | nents: | | | | | | | |

| E. | Stormwater Management and Diffuse Flow Plan (required by DWQ) | | | | |
|-----|--|-------------------------------------|--|--|--|
| 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 | | |
| 1b. | If yes, then is a diffuse flow plan included? If not, explain why. Comments: | ☐ Yes | □ No | | |
| 2. | Stormwater Management Plan | | | | |
| 2a. | What is the overall percent imperviousness of this project? | N/A | | | |
| 2b. | Does this project require a Stormwater Management Plan? | ⊠ Yes | □ No | | |
| 2c. | If this project DOES NOT require a Stormwater Management Plan, explain why: | | | | |
| 2d | 2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings. | | | | |
| 2e | . Who will be responsible for the review of the Stormwater Management Plan? | | cal Government nwater Program Jnit | | |
| 3. | Certified Local Government Stormwater Review | | | | |
| 3a. | In which local government's jurisdiction is this project? | not applicable | | | |
| 3b | Which of the following locally-implemented stormwater management programs apply (check all that apply): | ☐ Phase II ☐ NSW ☐ USMP ☐ Water Sup | oly Watershed | | |
| 3с | . Has the approved Stormwater Management Plan with proof of approval been attached? | ☐ Yes | □ No | | |
| 4. | DWQ Stormwater Program Review | | | | |
| 48 | a. Which of the following state-implemented stormwater management programs apply (check all that apply): | Coastal co | ounties aw 2006-246 | | |
| 4t | D. Has the approved Stormwater Management Plan with proof of approval been attached? | ☐ Yes | □ No | | |
| 5. | DWQ 401 Unit Stormwater Review | | | | |
| 5a | Does the Stormwater Management Plan meet the appropriate requirements? | ☐ Yes | □ No N/A | | |
| 51 | b. Have all of the 401 Unit submittal requirements been met? | ☐ Yes | □ No N/A | | |

| F. | Supplementary Information | | | |
|-----|---|---------------------|---------------------|--|
| 1. | Environmental Documentation (DWQ Requirement) | | | |
| 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: | | | |
| 2. | Violations (DWQ Requirement) | | | |
| 2a. | Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)? | ☐ Yes | ⊠ No | |
| 2b | . Is this an after-the-fact permit application? | ☐ Yes | ⊠ No | |
| 2c | If you answered "yes" to one or both of the above questions, provide an explanation of | of the violation(s) | , | |
| 3. | Cumulative Impacts (DWQ Requirement) | | | |
| 3a | . Will this project (based on past and reasonably anticipated future impacts) result in | Yes | | |
| | additional development, which could impact nearby downstream water quality? | ⊠ No | | |
| 3b | . If you answered "yes" to the above, submit a qualitative or quantitative cumulative im most recent DWQ policy. If you answered "no," provide a short narrative description. | pact analysis in a | accordance with the | |
| | Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary. | | | |
| 4. | Sewage Disposal (DWQ Requirement) | | | |
| 4a | Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility. | arge) of wastewa | ter generated from | |
| | not applicable | | | |

| 5. | Endangered Species and Designated | Critical Habitat (Corps Requirement |) | | | |
|-----|--|--|--------------------------|---|--|--|
| 5a. | Will this project occur in or near an area habitat? | with federally protected species or | Yes | ⊠ No | | |
| 5b. | Have you checked with the USFWS cor impacts? | ncerning Endangered Species Act | Yes | ⊠ No | | |
| 5c. | If yes, ind icate the USFWS Field Office | you have contacted. | ☐ Raleigh ☐ Asheville | | | |
| 5d. | What data sources did you use to deter Habitat? | mine whether your site would impact E | ndangered Species or | Designated Critical | | |
| | Only one Endangered and Threatened species is listed for Catawba County, the Dwarf-flowered heartleaf. A survey was conducted by NCDOT biologists on May 1, 2007 utilizing 2 person-hours, finding no suitable habitat due to a semi-dense understory and lack of slopes, rendering a biological conclusion of "No Effect". A search of the NHP database yielded no occurrences of Dwarf-flowered heartleaf within 1 mile of the project study area. | | | | | |
| 6. | Essential Fish Habitat (Corps Requir | rement) | | | | |
| 6a | Will this project occur in or near an area | designated as essential fish habitat? | ☐ Yes | ⊠ No | | |
| 6b | . What data sources did you use to dete | rmine whether your site would impact E | ssential Fish Habitat? | | | |
| | NMFS County Index | | | | | |
| 7. | Historic or Prehistoric Cultural Reso | ources (Corps Requirement) | | | | |
| 7a | . Will this project occur in or near an are governments have designated as having status (e.g., National Historic Trust des North Carolina history and archaeology | ng historic or cultural preservation signation or properties significant in | ☐ Yes | ⊠ No | | |
| 7b | . What data sources did you use to dete | rmine whether your site would impact h | istoric or archeologica | I resources? | | |
| 8. | Flood Zone Designation (Corps Requ | irement) | | 100000000000000000000000000000000000000 | | |
| 88 | . Will this project occur in a FEMA-desig | nated 100-year floodplain? | ⊠ Yes | □No | | |
| 8b | . If yes, explain how project meets FEM/ | A requirements: NCDOT Hydraulics Uni | t coordination with FE | MA | | |
| 80 | :. What source(s) did you use to make th | e floodplain determination? FEMA Maps | 3 | | | |
| | Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.) | | | | | |



North Carolina Department of Transportation

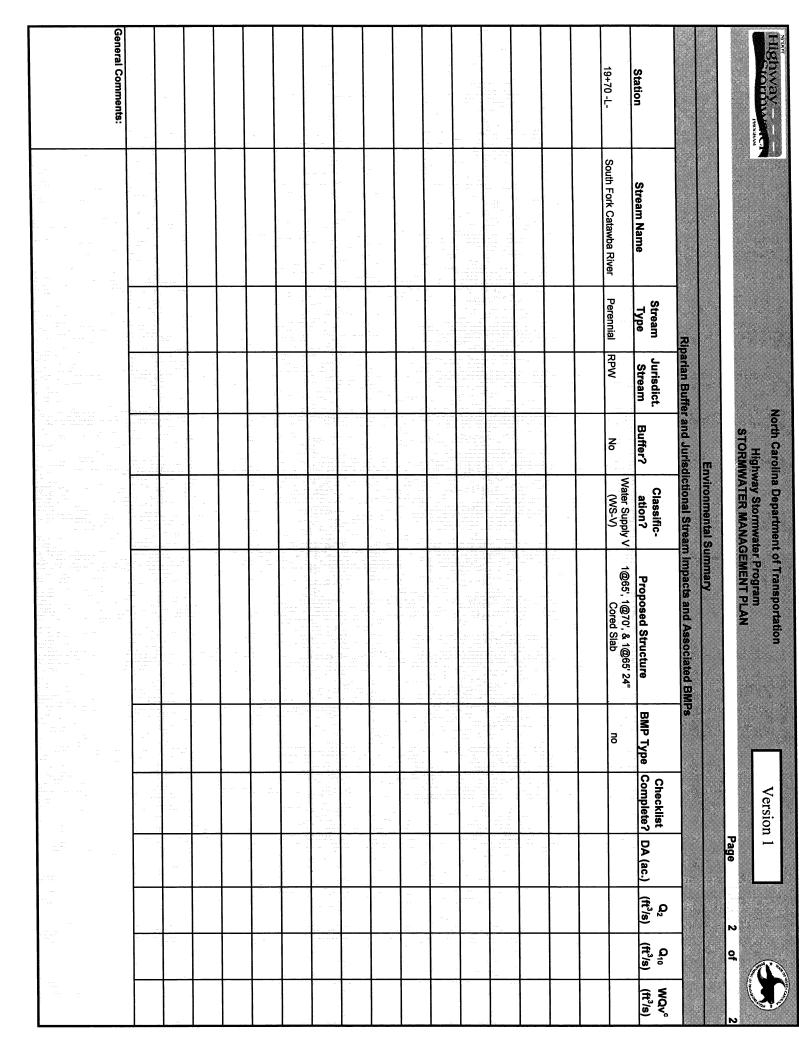
| Version | |
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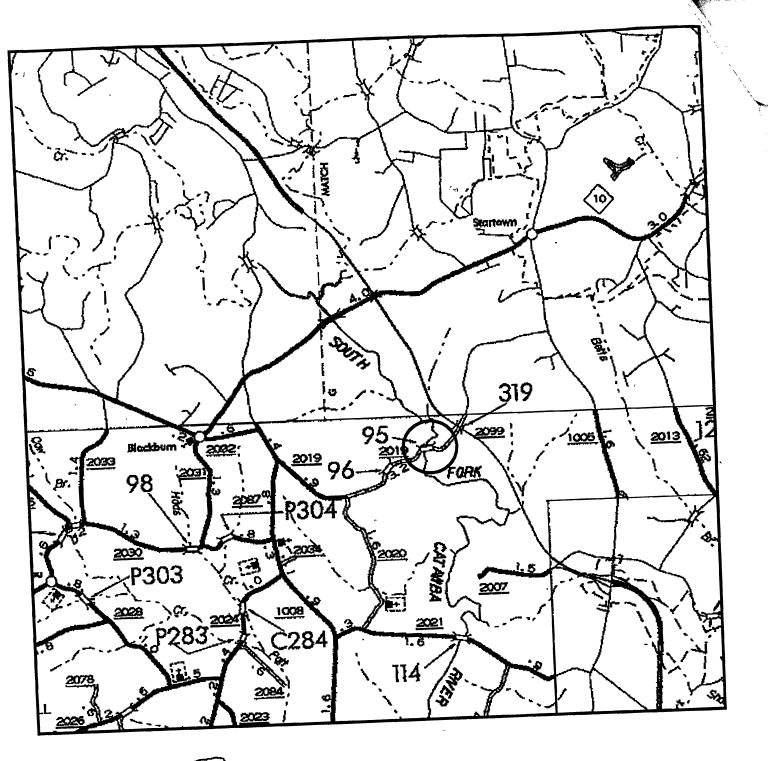
| | | Supplemental: | | |
|---------------------|-----------------------|-----------------------------|-------------------|--|
| | Water Supply V (WS-V) | Primary: | y Receiving Water | NCDWQ Surface Water Classification for Primary Receiving Water |
| | NCOWC Sugain much. | Catawba Kiver | South Fork Cat | Primary Receiving Water: |
| 11-129-(0.5) | NODMO Strom Indox: | | | KIVer Basin(s): |
| no TVA County (110 | CAMA County? | | Cafawha | Di Decim(e). |
| | Project Manager: | | Catawba County | County(ies): |
| | | | Newtonyoraltown | City/Town: |
| 200 | Doeignor: | | | riojectino |
| 6/1/2010 | Date: | | 38375 1 1 | District No . |
| 0700770 | | | | |
| | Information | General Project Information | | |
| Page 1 of 2 | | | | |
| | AGEMENT PLAN | STORMWATER MANAGEMENT PLAN | | |
| | ater Program | Highway Stormwater Program | | HOWSEN |

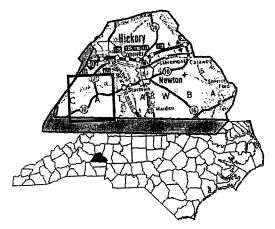
| Other Stream Classification: | | | | | |
|--|-------------------------------|---|--|--|--|
| | • | Typo(e) of Impairment: | | | |
| 303(d) Stream?: | OU | Iype(s) or impairment. | | | |
| Charitan Damii Domii | 2 | If ves. why?: | | | |
| State Stormwater Permit Required i | 2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| Could the Project Impact Threatened or Endangered Species? | ered Species? | | 00 | | |
| | | | | | |
| | James and American Company | of project | | | |
| Description: | No occurrences within in | ille of project | | | |
| Anadromous Fish Present? | no | | | | |
| | | | | | |
| Description: | | | | | |
| Buffer Rules in Effect? | no | | Buffer Rules: | | |
| | | Existing Site | te | | |
| | | | | Since of the since | |
| Description of Existing Project Area: | Rural setting. Existing cro | ossing on dirt/gravel road. E | Rural setting. Existing crossing on dirt/gravel road. Existing bridge is low-water type with wheel guards only | Will Wileel gualus Olliy. | |
| Average Daily Traffic: | ADT 2011: 914 | | | | |
| Existing Cross Section: | Existing roadway at or near n | ar natural ground with roadside swales or ditches | de swales or ditches | | |
| Surrounding Land Use: | Pastural (horse & cattle u | sage), Open grassed fields, | Pastural (horse & cattle usage), Open grassed fields, Wooded along stream corridor | | |
| General Comments: | Sharp horizontal curve in | roadway at west end of exist | Sharp horizontal curve in roadway at west end of existing bridge. Water OT's frequently at existing crossing. | ntly at existing crossing. | |
| | | | | | |

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| | Project Project |
|-----------------------------------|--|
| | |
| Description of Proposed Project: | Replace Bridge No. 95 over the South Fork Catawba River on SR 2019. |
| Average Daily Traffic: | ADT 2030: 2070, T=3%, V=50MPH |
| Proposed Cross-Section: | Fill w/ guardrail in 2:1 fill sections. Paved/grassed shoulder with ditches |
| Interchange Modification: | no Median Type: |
| Terminus: | |
| Terminus: | |
| Project Length (lin. miles/feet): | 0.478 Mi. SEE PLANS |
| General Comments: | |
| | |
| | |
| | Proposed bridge to be relocated to new location downstream (south) of existing crossing. Increase vertical profile (from existing) by 5+/- to attain a 10 |
| | yr hydraulic design. Horizontal alignment incorporates large horizontal curves to improve upon existing alignment. No bmps incorporated on project. Atthough BMPs were not used on this project, the proposed bridge does not incorporate deck drains. |
| | |





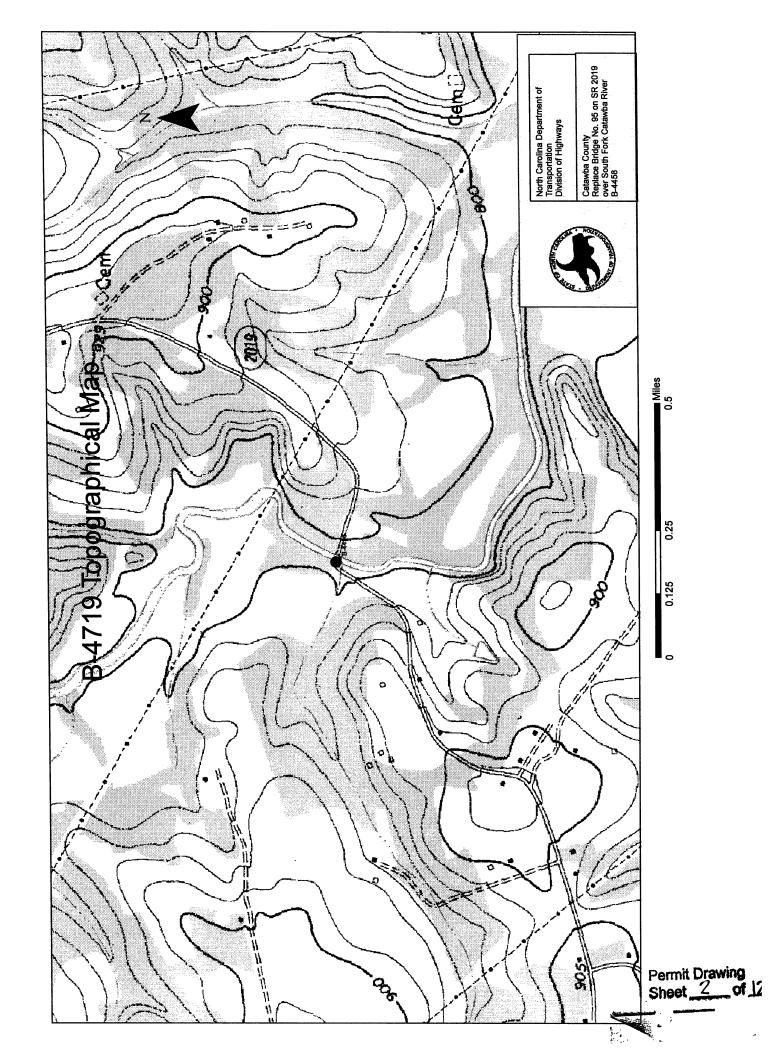




NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROJECT DEVELOPMENT & ENVIRONMENTAL ANALYSIS BRANCH

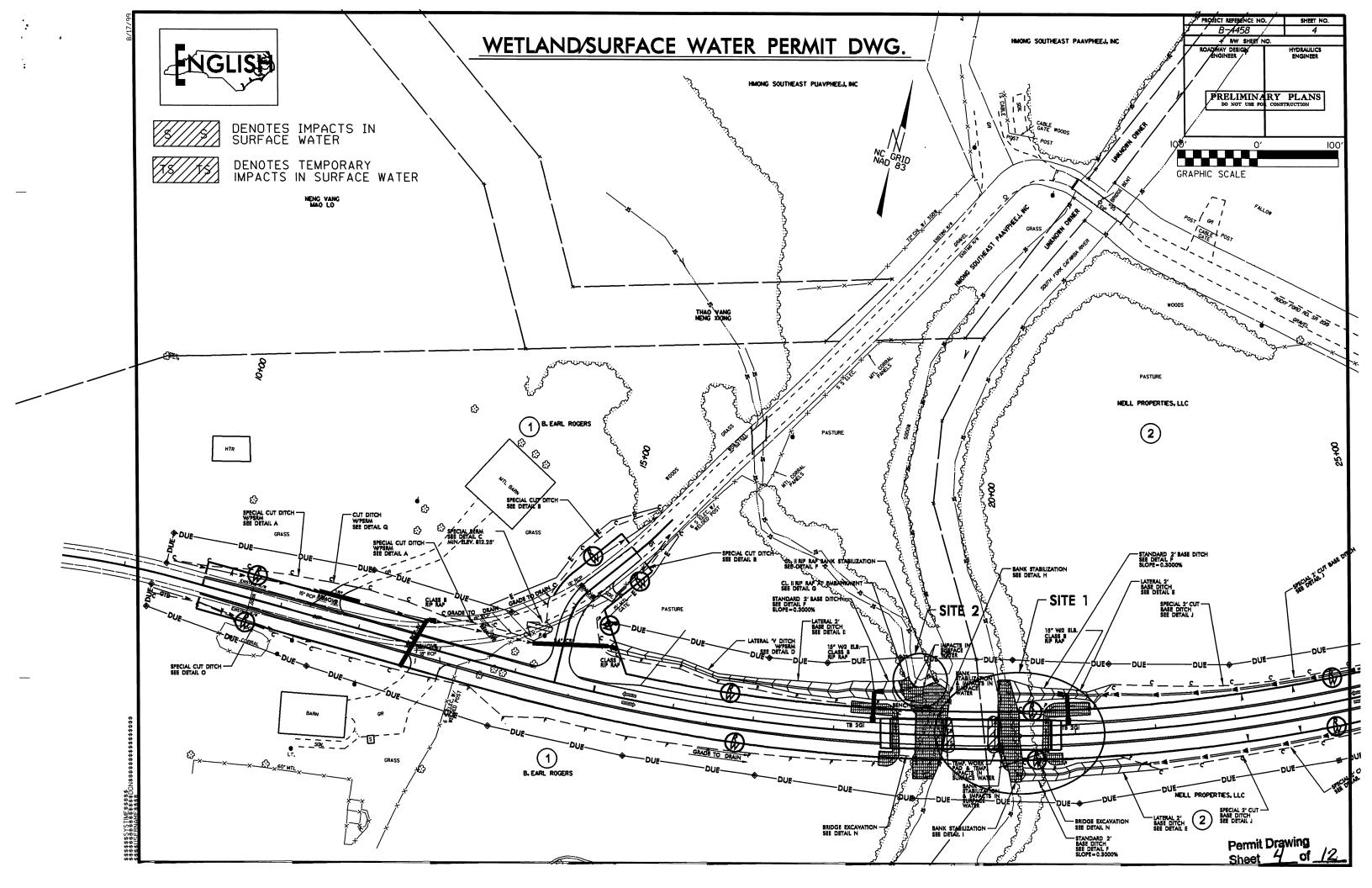
CATAWBA COUNTY
REPLACE BRIDGE NO. 95 ON SR 2019
OVER SOUTH FORK CATAWBA RIVER
B-4458

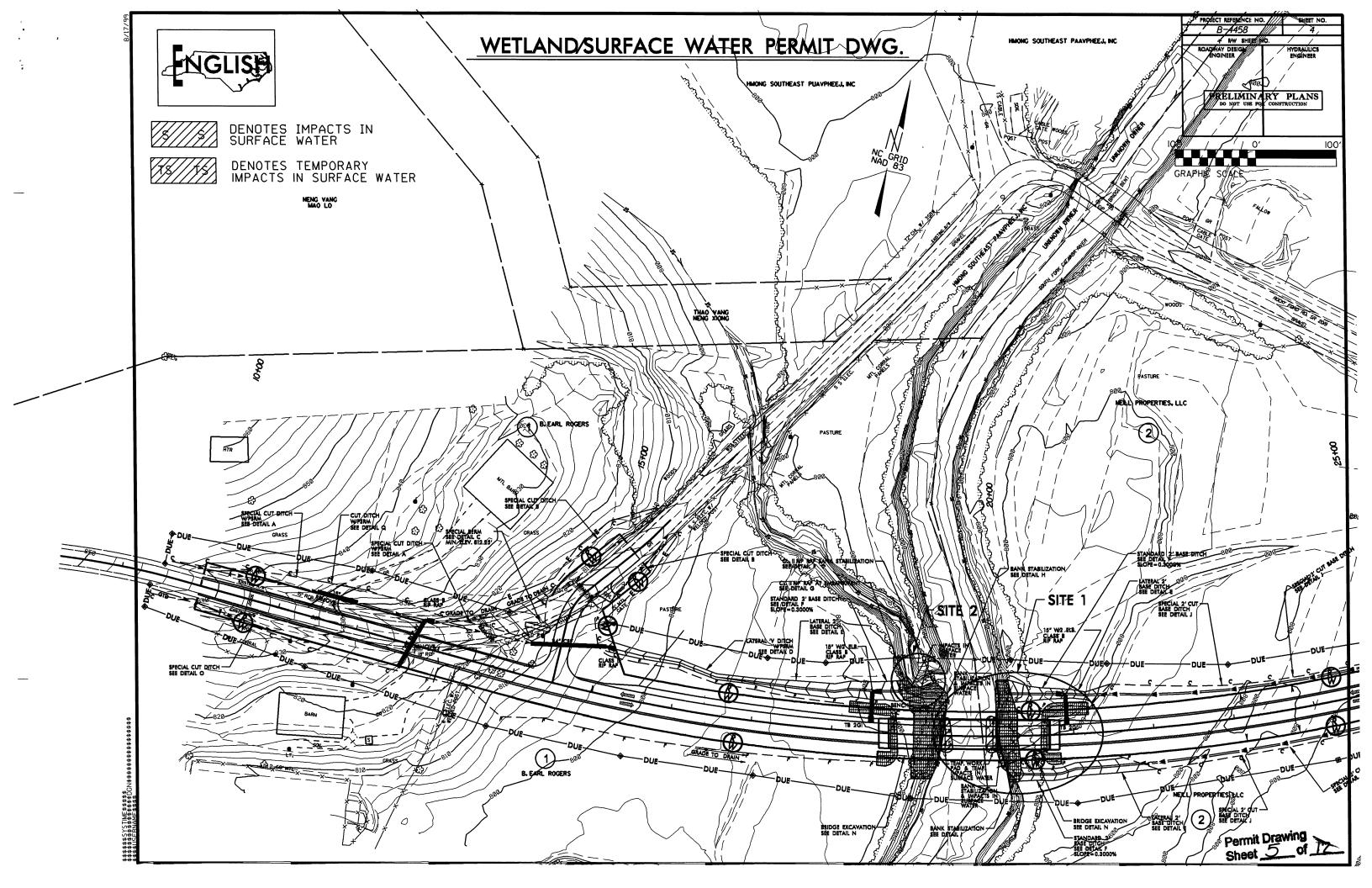
Figure 1

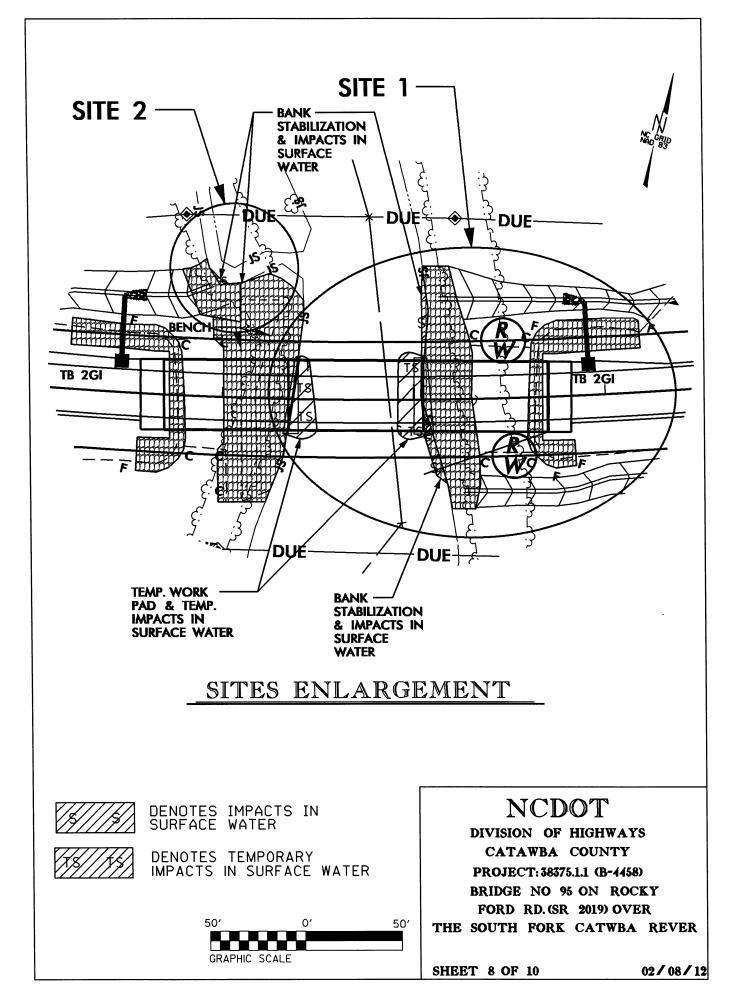


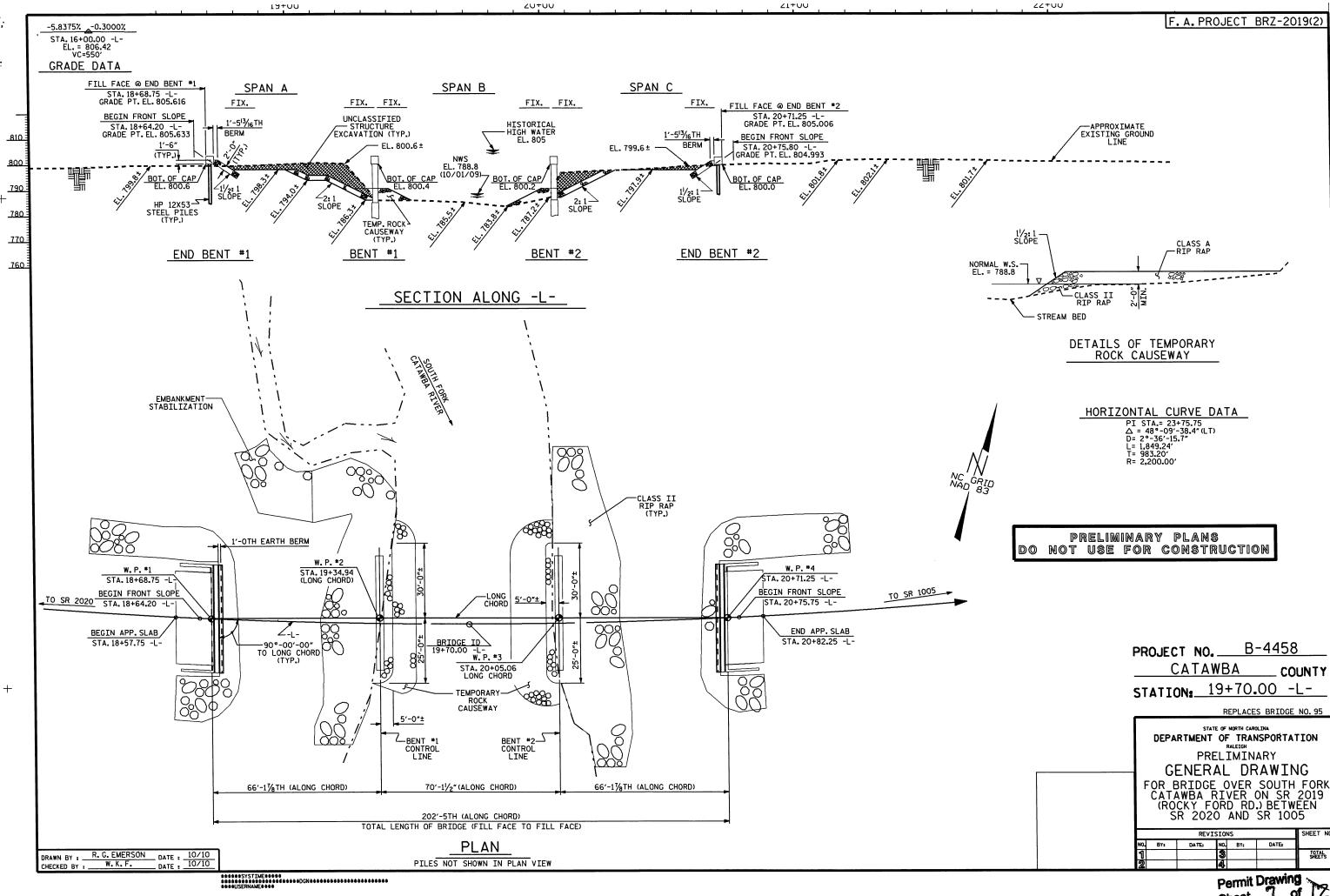
STATE OF NORTH CAROLINA N.C. **B-4458** DIVISION OF HIGHWAYS BRZ-2019 (2) 38375.1.1 38375.2.1 RW, UTIL BRZ-2019 (2) CATAWBA COUNTY LOCATION: BRIDGE NO 95 ON ROCKY FORD RD (SR 2019) OVER THE SOUTH FORK CATAWBA RIVER TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE, AND GUARDRAIL **PROJEC** VICINITY MAP WETLAND/SURFACE WATER PERMIT DWG. BEGIN PROJECT B-4458 -L- POT STA. 10+00.00 SR 2019 ROCKY FORD RD TO BLACKBURN / / BEGIN BRIDGE END BRIDGE
-L- POC STA. 20+71.25 -L- POC STA. 18+68.75 PRELIMINARY PLANS
DO NOT USB FOR CONSTRUCTION THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA HYDRAULICS ENGINEER Prepared in the Office of: DESIGN DATA GRAPHIC SCALES PROJECT LENGTH **DIVISION OF HIGHWAYS** ADT 2012 = 1008 1000 Birch Ridge Dr., Raleigh NC, 27610 LENGTH ROADWAY TIP PROJECT B-4458 = 0.440 MI ADT 2030 = 2700 2012 STANDARD SPECIFICATIONS DHV = 14 %LENGTH STRUCTURE TIP PROJECT B-4458 = 0.038 MI RIGHT OF WAY DATE: JASON MOORE, PE PROJECT ENGINEER ROADWAY DESIGN ENGINEER TOTAL LENGTH TIP PROJECT B-4458 = 0.478 MI **NOVEMBER 18, 2011** V = 50 MPHPROFILE (HORIZONTAL) FUNC. CLASS = LOCAL LETTING DATE: BRYAN KEY, PE TTST 1% DUAL 2% **NOVEMBER 20, 2012** SUB REGIONAL TIER

about 3 of 12

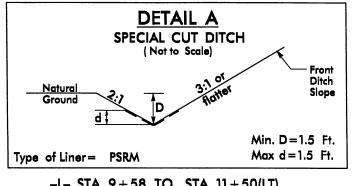




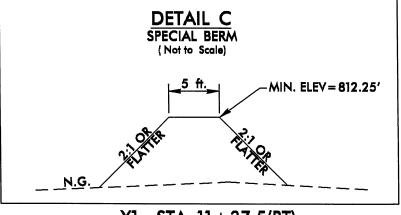


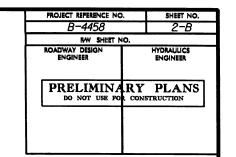


Cheet 7 of 12





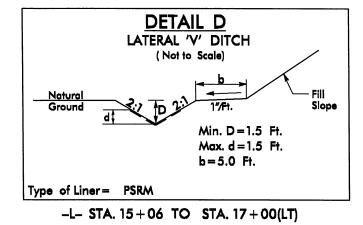




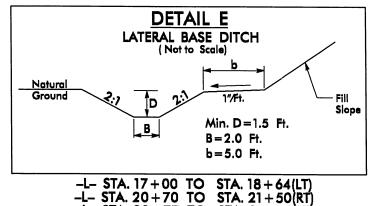
-L- STA. 9+58 TO STA. 11+50(LT) -L- STA. 12+50 TO STA. 14+12(LT) -L- STA. 28+00 TO STA. 29+00(RT)

-L- STA. 34+00 TO STA. 35+84(LT) -L- STA. 34+00 TO STA. 35+84(RT) -Y1- STA. 9+45 TO STA. 10+50(RT) -Y1- STA. 9+50 TO STA. 10+50(LT)

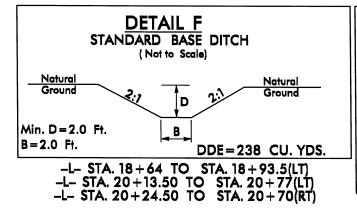
-Y1-STA. 11+37.5(RT)

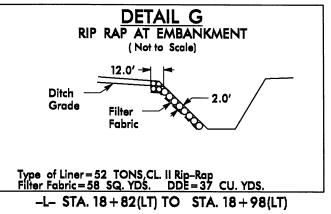


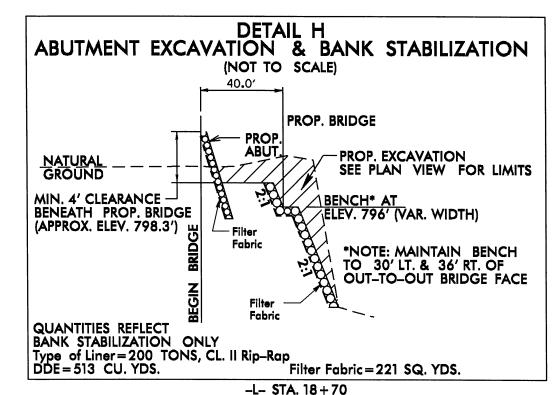
:\$\$\$\$\$\$YSTIME\$\$\$\$: :\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$:\$\$\$!!GFRNDME\$\$\$\$

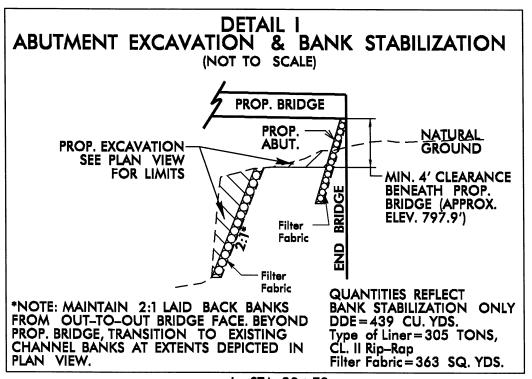


-L- STA. 20+77 TO STA. 21+50(LT)

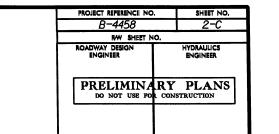


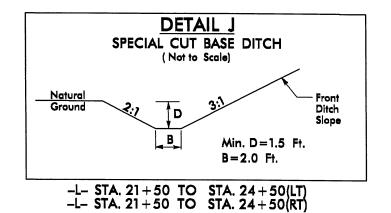


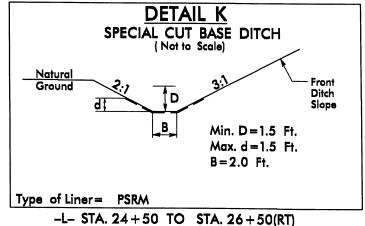


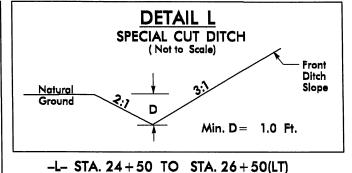


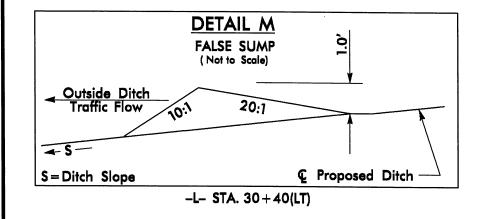
-L- STA. 20+70

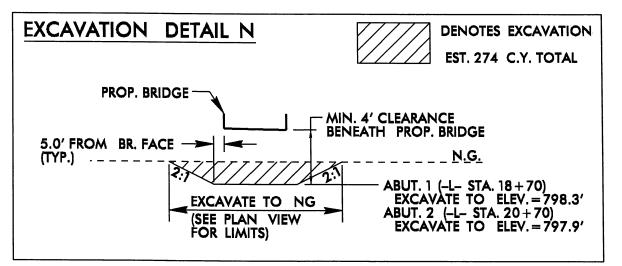








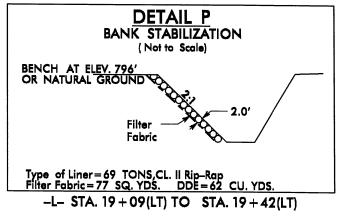


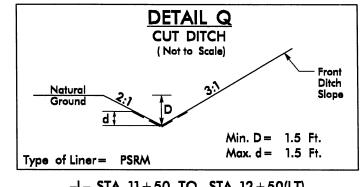


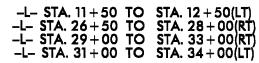


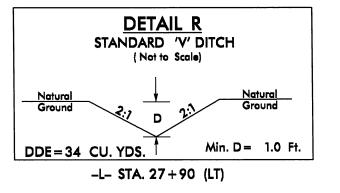


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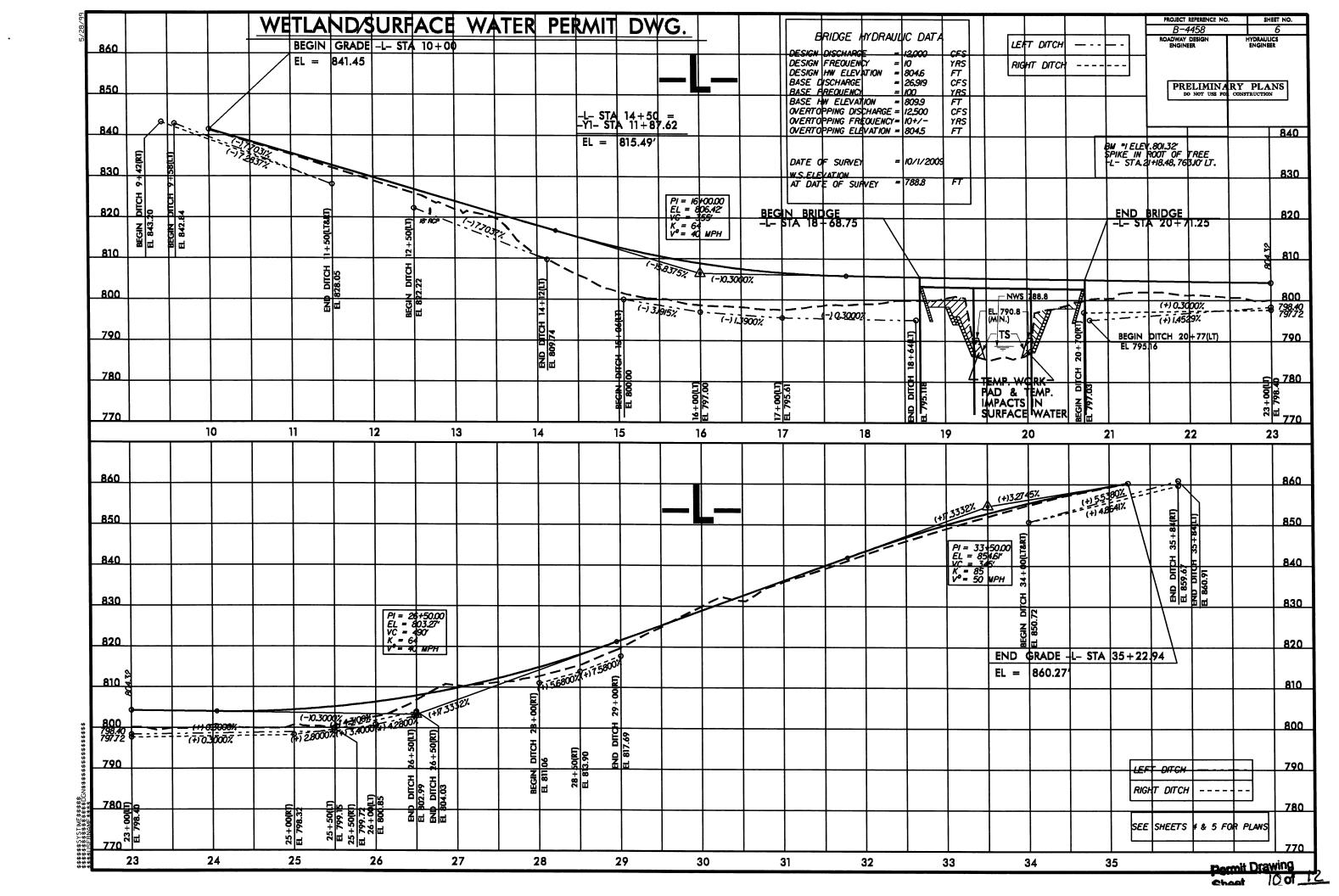








SEE SHEETS 4 & 5 FOR PLANS



PROPERTY OWNERS

Ú

NAMES AND ADDRESSES

| PARC | CEL NO. | NAMES | ADDRESSES |
|------|-------------|----------------------|--|
| 1 | Rogers Bro | udus Earl & Linda D. | 3523 Rocky Ford Rd. Newton NC 28658-8854 |
| 2 | Neill Prope | erties, LLC | PO Box 3916 Hickory nc 28603-3916 |

NCDOT

DIVISION OF HIGHWAYS
CATAWBA COUNTY
PROJECT: 38375.1.1 (B-4458)
BRIDGE 95 OVER THE
SOUTH FORK CATAWBA RIVER
ON ROCKY FORD RD (SR 2019)
SHEET 9 OF 10 02/08/12

Permit Drawing Sheet | of 12

| SURFACE WATER IMPACTS | Existing Existing Temp. Channel Channel Natural SW Impacts Impacts Stream impacts Permanent Temp. Design | (ft) (ft) | 114' | | 0.02 | | 700 | 01 | | | | | | | | | 0.02 132 0.00 0.00 |
|-------------------------------|---|-------------|--------------------|---------------|------------------|---------------|-----|--------------------|---------------|--|--|--|--|--|--|--|--------------------|
| CT SUMMAR | Hand Clearing Permanen in SW Wetlands impacts | _ | <0.01 | | | | 3 | V0.07 | | | | | | | | | 0.00 <0.01 |
| WETLAND PERMIT IMPACT SUMMARY | hanized learing Vetlands | | | | | | | | | | | | | | | | 0.00 |
| WETLAND PE | Excavation Mechanized in Clearing Wetlands in Wetlands | | | | | | | | | | | | | | | | 0.00 |
| MF | Tem | (ac) | | | | | | | | | | | | | | | 0.00 |
| - | 404 Permanent Fill In | | | | | | | | | | | | | | | | 00.0 |
| | CAMA Permanent Fill In | (ac) | | | | | | | | | | | | | | | 00.0 |
| | Structure | Size / Iype | BANK STABILIZATION | | TEMP WORK PAD | | | BANK STABILIZATION | | | | | | | | | |
| | Station | (From/To) | -L- STA 20+03 TO | -L- STA 20+17 | 1 - STA 10+34 TO | -L- STA 20+10 | | -L- STA 18+91 TO | -L- STA 19+10 | | | | | | | | |
| | Site | o Z | - | | | - | | 2 | | | | | | | | | O LATOT |

NOTE:

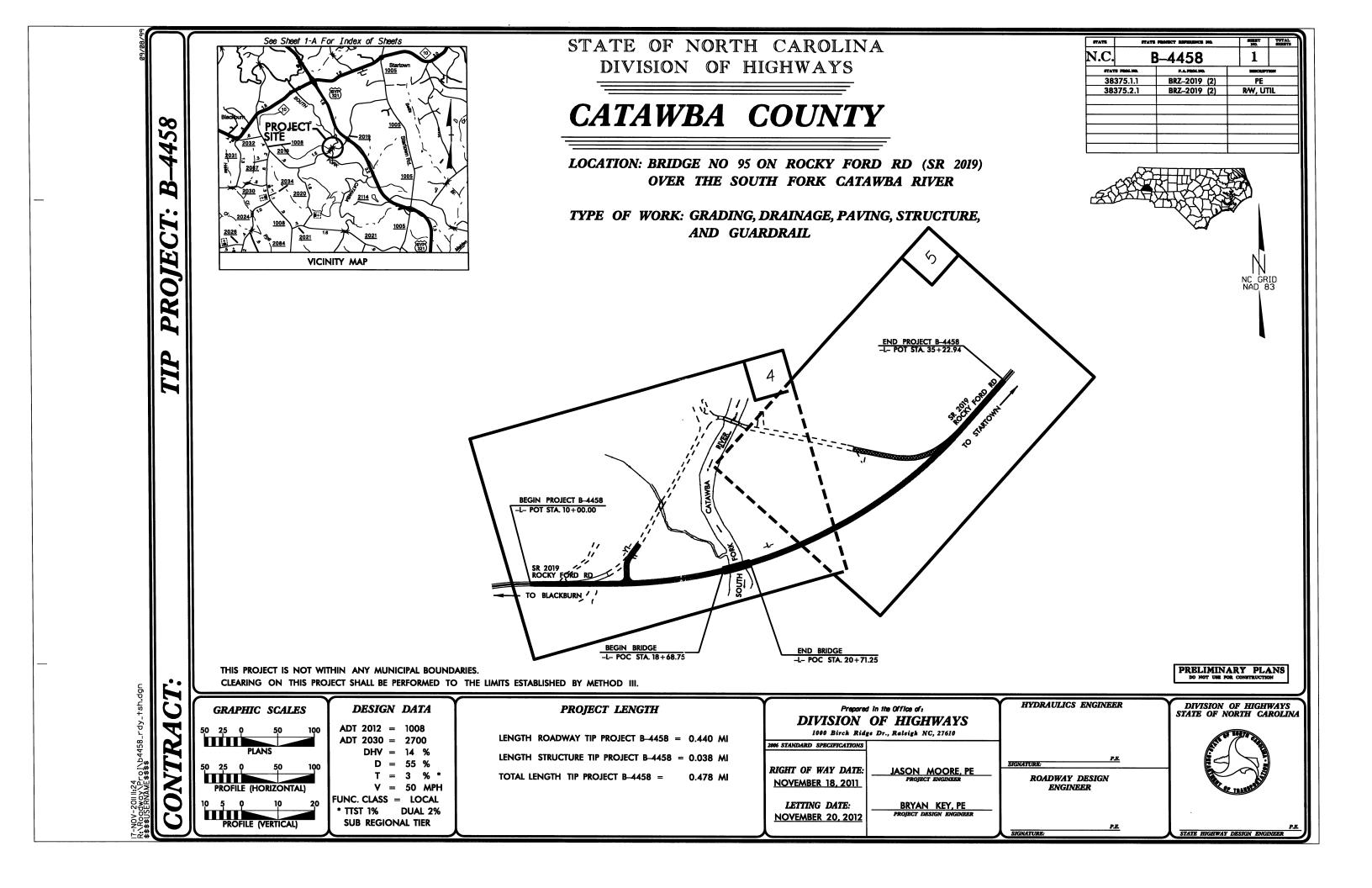
Permanent impacts in surface water due to proposed bridge interior bents = 42.4 Sq. ft.

N.C.D.O.T.
DIVISION OF HIGHWAYS
CATAWBA COUNTY
PROJECT: 38375.1.1 (B-4458)
BRIDGE NO. 95 ON ROCKY
FORD RD. (SR 2019) OVER
THE SOUTH FORK CATAWBA RIVER

(02/08/2012)

SHEET 10 OF 10

Permit Drawing
Sheet 12 of 12



Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

| DOLLAR 4 | | | | | | WATER: Water Manhole ———————————————————————————————————— | © |
|---|-------------------|---|---|--|-------------|--|-----------|
| BOUNDARIES AND PROPERTY | | DAII DOADS. | | | | Water Manhole Water Meter | ₩ — |
| State Line | | RAILROADS: | | | | Water Meter | 0 |
| County Line — | | | CSX TRANSPORTATION | EXISTING STRUCTURES: | | | ⊗ |
| Township Line | | RR Signal Milepost | — | | | Water Hydrant | • |
| City Line | | Switch | SWITCH | MAJOR: | | Recorded U/G Water Line | |
| Reservation Line | | RR Abandoned | | Bridge, Tunnel or Box Culvert [| | Designated U/G Water Line (S.U.E.*) | |
| Property Line | | RR Dismantled | | Bridge Wing Wall, Head Wall and End Wall - | CONC WW (| Above Ground Water Line | A/G Water |
| Existing Iron Pin —————————————————————————————————— | | RIGHT OF WAY: | | MINOR: | | | |
| Property Corner | _ | Baseline Control Point | • | Head and End Wall | CONC HW | TV: | |
| Property Monument | <u>.</u> | Existing Right of Way Marker | | Pipe Culvert | | TV Satellite Dish | K |
| Parcel/Sequence Number | | Existing Right of Way Line | | Footbridge | | TV Pedestal ———————————————————————————————————— | |
| Existing Fence Line | | Proposed Right of Way Line | — (5) — | Drainage Box: Catch Basin, DI or JB ——— | Св | TV Tower | \otimes |
| Proposed Woven Wire Fence | | Proposed Right of Way Line with | | Paved Ditch Gutter | | U/G TV Cable Hand Hole | E |
| Proposed Chain Link Fence | | Iron Pin and Cap Marker | | Storm Sewer Manhole ————— | (S) | Recorded U/G TV Cable | тv |
| Proposed Barbed Wire Fence | | Proposed Right of Way Line with | | Storm Sewer | s | Designated U/G TV Cable (S.U.E.*)————— | |
| - | | | | | | Recorded U/G Fiber Optic Cable | |
| Existing Wetland Boundary | | | - - (§) | UTILITIES: | | Designated U/G Fiber Optic Cable (S.U.E.*)— - | |
| Proposed Wetland Boundary | | Proposed Control of Access —————————————————————————————————— | | POWER: | | , | |
| Existing Endangered Animal Boundary | | Existing Easement Line | - | Existing Power Pole | • | GAS: | |
| Existing Endangered Plant Boundary | | Proposed Temporary Construction Easement - | _ | Proposed Power Pole ———————————————————————————————————— | Ä | Gas Valve | ۸ |
| BUILDINGS AND OTHER CUL | TURE: | Proposed Temporary Drainage Easement | | Existing Joint Use Pole | _ | Gas Neter | V A |
| Gas Pump Vent or U/G Tank Cap | — о | Proposed Permanent Drainage Easement —— | | Proposed Joint Use Pole | | Recorded U/G Gas Line ———————————————————————————————————— | • |
| Sign | © | Proposed Permanent Utility Easement ———— | | Power Manhole ——————— | | | |
| Well | | Proposed Temporary Utility Easement ——— | - —— TUE —— | | | Designated U/G Gas Line (S.U.E.*)———— | |
| Small Mine | | Proposed Permanent Easement with Iron Pin and Cap Marker | - | Power Line Tower ———————————————————————————————————— | ⊠ Ø | Above Ground Gas Line | 9 908 |
| Foundation — | | Iron Pin and Cap Marker ROADS AND RELATED FEATUR | • | | | CANITADY COURS | |
| Area Outline | | | | U/G Power Cable Hand Hole | | SANITARY SEWER: | |
| Cemetery ———————————————————————————————————— | | Existing Edge of Pavement | | H-Frame Pole | ••• | Sanitary Sewer Manhole | |
| Building — | _ | Existing Curb ———————————————————————————————————— | | Recorded U/G Power Line | | Sanitary Sewer Cleanout | • |
| School | | Proposed Slope Stakes Cut | | Designated U/G Power Line (S.U.E.*) | | U/G Sanitary Sewer Line ———————————————————————————————————— | |
| | — _ | Proposed Slope Stakes Fill | | | | Above Ground Sanitary Sewer ———— | |
| Church ———————————————————————————————————— | | Proposed Wheel Chair Ramp | _ | TELEPHONE: | | Recorded SS Forced Main Line | |
| Dam | | Existing Metal Guardrail | | Existing Telephone Pole | - | Designated SS Forced Main Line (S.U.E.*) — | FSS |
| HYDROLOGY: | | Proposed Guardrail | | Proposed Telephone Pole ————— | _ | | |
| Stream or Body of Water | | Existing Cable Guiderail | | Telephone Manhole ————— | | MISCELLANEOUS: | |
| Hydro, Pool or Reservoir ———————————————————————————————————— | | Proposed Cable Guiderail | | Telephone Booth ———————— | 3 | Utility Pole ———————————————————————————————————— | • |
| Jurisdictional Stream | | Equality Symbol | | Telephone Pedestal ———————————————————————————————————— | | Utility Pole with Base | □ |
| Buffer Zone 1 | | Pavement Removal | ~ | Telephone Cell Tower | | Utility Located Object | _ _ |
| Buffer Zone 2 ——————————————————————————————————— | | VEGETATION: | | U/G Telephone Cable Hand Hole ———— | | Utility Traffic Signal Box ————— | <u>s</u> |
| Flow Arrow | | Single Tree | — & | Recorded U/G Telephone Cable ———— | | Utility Unknown U/G Line | _ |
| Disappearing Stream ———————————————————————————————————— | | Single Shrub | | Designated U/G Telephone Cable (S.U.E.*)— | | U/G Tank; Water, Gas, Oil ————— | |
| Spring ———————————————————————————————————— | | Hedge | | Recorded U/G Telephone Cable (S.U.E.*) — | | A'G Tank; Water, Gas, Oil —————— | 닏 |
| Wetland | | Woods Line | | • | | | لا |
| Proposed Lateral, Tail, Head Ditch | _ | Orchard | | Designated U/G Telephone Conduit (S.U.E.*) | | Abandonad According to Utility Records | ② |
| | ← na | | | Recorded U/G Fiber Optics Cable | | Abandoned According to Utility Records — | AATUR |
| False Sump ———————————————————————————————————— | $- \diamondsuit$ | Vineyard — | Vineyard | Designated U/G Fiber Optics Cable (S.U.E.*) | FQ · | End of Information —————— | E.O.I. |

