



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits
(along with corresponding Water Quality Certifications)

September 29, 2018 Ver 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

County (or Counties) where the project is located: *

Edgecombe

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.

Is this a NCDOT Project? *

Yes No

(NCDOT only) T.I.P. or state project number:

B-4931

WBS # *

40134.1.1

(for NCDOT use only)

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)

1b. What type(s) of permit(s) do you wish to seek authorization? *

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

1c. Has the NWP or GP number been verified by the Corps? *

Yes No

Nationwide Permit (NWP) Number:

03 - Maintenance

NWP Numbers (for multiple NWPS):

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

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

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

FILETYPE 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? *

NCDOT

1b. Primary Contact Email: *

jjdilday@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)707-6111

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: *

NCDOT

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1000 Birch Ridge Drive

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6111

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Replacement of Bridge 22 over Town Creek on US258, Edgecombe Co. (B-4931 Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Pinetops

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

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: *

35.798438
ex: 34.208504

Longitude: *

-77.591584
-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project: *

Town Creek

3b. Water Resources Classification of nearest receiving water: *

C;NSW

[Surface Water Lookup](#)

3c. What river basin(s) is your project located in? *

Tar-Pamlico

3d. Please provide the 12-digit HUC in which the project is located. *

030201030107

[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: *

Land use in the project vicinity consists primarily of forested floodplains and low-density residential sites interspersed with agricultural fields.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? *

Yes No Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

4f. List the total estimated acreage of all existing wetlands on the property:

0.2

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

1200

4h. Explain the purpose of the proposed project: *

The purpose of this project is to replace a structurally deficient bridge.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: *

This project involves replacing the existing 4 span, 160-foot bridge with a two span, 170-foot bridge on the existing alignment. Traffic will be maintained on an off-site detour. Standard road building equipment, such as trucks, dozers and cranes will be used.

4j. Please upload project drawings for the proposed project.

[Click the upload button or drag and drop files here to attach document](#)

B-4931 Buffer Drawings.pdf

1.14MB

B-4931 Permit Drawings.pdf

1.16MB

File type must be pdf

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

Yes

No

Unknown

Comments:

A preliminary JD package is attached.

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

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Beth Reed

Agency/Consultant Company: Kimley Horn

Other:

5d1. Jurisdictional determination upload

Click the upload button or drag and drop files here to attach document

B4931_PreliminaryJD_Request.pdf 2.52MB

File type must be PDF

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.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

- Wetlands
- Open Waters
- Streams-tributaries
- Pond Construction
- Buffers

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

6a. Project is in which protect basin(s)? *

Check all that apply.

- Neuse
- Catawba
- Goose Creek
- Other
- Tar-Pamlico
- Randleman
- Jordan Lake

6b. Impact Type * (?)	6c. Per or Temp * (?)	6d. Stream name *	6e. Buffer mitigation required? *	6f. Zone 1 impact *	6g. Zone 2 impact *
Bridge-Allowable	P	Town Creek	No	5,137 (square feet)	2,481 (square feet)
Road Crossing-Allowable	P	Town Creek	No	640 (square feet)	1,257 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00
Total Permanent impacts:	5,777.00	3,738.00
Total combined buffer impacts:	5,777.00	3,738.00

6i. Comments:

Supporting Documentation - i.e. Impact Maps, Plan Sheet, etc.

Click the upload button or drag and drop files here to attach document

File must be PDF

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.*

The bridge will be replaced on the existing alignment. The new bridge will have no bents inside the creek. The proposed project will have no impact to streams or wetlands. See stormwater management plan for additional minimization measures.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.*

An offsite detour will be used during construction. NCDOT's Design Standards for Sensitive Watersheds will be employed.

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:

There will be no impact to streams or wetlands. All buffer impacts are deemed allowable and do not require mitigation.

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

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the [NC Stormwater Design Manual](#). Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

- Level Spreader
- Vegetated Conveyance (lower SHWT)
- Wetland Swale (higher SHWT)
- Other SCM that removes minimum 30% nitrogen
- Proposed project will not create concentrated stormwater flow through the buffer

(check all that apply)

For a list of options to meet the diffuse flow requirements, click [here](#).

Diffuse Flow Documentation

Click the upload button or drag and drop files here to attach document

File type must be PDF

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?*

Yes No

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

NEPA or SEPA Final Approval Letter

Click the upload button or drag and drop files here to attach document

FILETYPE MUST BE PDF

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.

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 (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? *

Yes No NA

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

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Edgecombe County, which include Tar River spiny mussel, yellow lance, Dwarf wedgemussel, red-cockaded woodpecker. All current listed species received biological conclusions of "No Effect" with the exception of Tar River spiny mussel which received a biological conclusion of "May Affect, Not Likely to Adversely Affect". NCDOT proposes to satisfy impacts to Section 7 for the species by making payment to the N.C. Non-game Aquatic Species Fund as set in the Programmatic Biological Opinion for freshwater mussels.

Consultation Documentation Upload

Click the upload button or drag and drop files here to attach document

File type must be PDF

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

Yes No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NMFS County Index

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/hpweb/>)

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)? *

Yes No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

NEPA documentation

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document

File must be PDF

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? *

Yes No

8b. If yes, explain how project meets FEMA requirements:

NCDOT Hydraulics Unit coordination with FEMA

8c. What source(s) did you use to make the floodplain determination? *

FEMA maps

Miscellaneous

Comments

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document

File must be PDF or KMZ

Signature

*

By checking the box and signing below, I certify that:

- 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: *

Mack Christopher Rivenbark III

Signature

Mack C. Rivenbark, III

Date

10/14/2019

Jurisdictional Determination Request



**US Army Corps
of Engineers**
Wilmington District

This form is intended for use by anyone requesting a jurisdictional determination (JD) from the U.S. Army Corps of Engineers, Wilmington District (Corps). Please include all supporting information, as described within each category, with your request. You may submit your request to the appropriate Corps Field Office (or project manager, if known) via mail, electronic mail, or facsimile. A current list of county assignments by Field Office and project manager can be found on-line at: <http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram.aspx>, by telephoning: 910-251-4633, or by contacting any of the field offices listed below:

ASHEVILLE REGULATORY FIELD OFFICE

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

Jurisdictional Determination Request

INSTRUCTIONS:

All requestors must complete Parts A, B, C, D, E and F.

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 G**.

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 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

A. PARCEL INFORMATION

Street Address: N/A Linear Transportation Project
City, State: Pinetops, North Carolina
County: Edgecombe
Directions: See Figure 1: Vicinity Map

Parcel Index Number(s) (PIN): N/A (Linear Transportation Project)

B. REQUESTOR INFORMATION

Name: NCDOT; ATTN: Chris Rivenbark, Natural Environment Section
Mailing Address: 1598 Mail Service Center; Raleigh, NC 27699-1598
Telephone Number: (919) 707-6152
Electronic Mail Address¹: crivenbark@ncdot.gov

Select one:

- I am the current property owner.
 I am an Authorized Agent or Environmental Consultant²
 Interested Buyer or Under Contract to Purchase
 Other, please explain.

C. PROPERTY OWNER INFORMATION

Name: NCDOT; ATTN: Chris Rivenbark, Natural Environment Section
Mailing Address: 1598 Mail Service Center
Raleigh, NC 27699-1598
Telephone Number: (919) 707-6152
Electronic Mail Address³: crivenbark@ncdot.gov

Proof of Ownership Attached (e.g. a copy of Deed, County GIS/Parcel/Tax Record data)

¹ If available

² Must attach completed Agent Authorization Form

³ If available

Jurisdictional Determination Request

D. PROPERTY OWNER CERTIFICATION⁴

I, the undersigned, a duly authorized owner of record of the property/properties identified herein, do 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 and issuing a determination associated with Waters of the U.S. subject to Federal jurisdiction under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899.

Property Owner (please print)

Date

Property Owner Signature

E. JURISDICTIONAL DETERMINATION TYPE

Select One:

- I am requesting that the Corps provide a preliminary JD for the property identified herein. This request does include a delineation.
- I am requesting that the Corps provide a preliminary JD for the property identified herein. This request does NOT include a delineation.
- I am requesting that the Corps investigate the property/project area for the presence or absence of WoUS⁵ and provide an approved JD for the property identified herein. This request does NOT include a request for a verified delineation.
- I am requesting that the Corps delineate the boundaries of all WoUS on a property/project area and provide an approved JD (this may or may not include a survey plat).
- I am requesting that the Corps evaluate and approve a delineation of WoUS (conducted by others) on a property/project area and provide an approved JD (may or may not include a survey plat).

⁴ For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.

⁵ Waters of the United States

Jurisdictional Determination Request

F. ALL REQUESTS

- Map of Property or Project Area (attached). This Map must clearly depict the boundaries of the area of evaluation.
- Size of Property or Project Area 12.52 acres
- I verify that the property (or project) boundaries have recently been surveyed and marked by a licensed land surveyor OR are otherwise clearly marked or distinguishable.

G. JD REQUESTS FROM CONSULTANTS OR AGENCIES

(1) Preliminary JD Requests:

- Completed and signed Preliminary Jurisdictional Determination Form⁶.
- Project Coordinates: 35.798478 Latitude -77.591359 Longitude

Maps (no larger than 11x17) with Project Boundary Overlay:

- Large and small scale maps that depict, at minimum: streets, intersections, towns
- Aerial Photography of the project area
- 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)

⁶ See Appendix A of this Form. From Regulatory Guidance Letter No. 08-02, dated June 26, 2008

Jurisdictional Determination Request

Delineation Information (when applicable)⁷:

Wetlands:

Wetland Data Sheets⁸

Upland Data Sheets

Landscape Photos, if taken

Field Sketch overlain on legible Map that includes:

- All aquatic resources (for sites with multiple resources, label and identify)
- Locations of wetland data points and/or tributary assessment reaches
- Locations of photo stations
- Approximate acreage/linear footage of aquatic resources

Tributaries:

USACE Assessment Forms

Other Assessment Forms
(when appropriate)

(2) Approved JDs including Verification of a Delineation:

Project Coordinates: _____ Latitude _____ Longitude

Maps (no larger than 11x17) with Project Boundary Overlay:

Large and small scale maps that depict, at minimum: streets, intersections, towns

Aerial Photography of the project area

USGS Topographic Map

Soil Survey Map

Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps)

⁷ 1987 Manual Regional Supplements and Data forms can be found at:

http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/reg_supp.aspx

Wetland and Stream Assessment Methodologies can be found at:

http://portal.ncdenr.org/c/document_library/get_file?uuid=76f3c58b-dab8-4960-ba43-45b7faf06f4c&groupId=38364 and,
http://www.saw.usace.army.mil/Portals/59/docs/regulatory/publicnotices/2013/NCSAM_Draft_User_Manual_130318.pdf

⁸ Delineation information must include, at minimum, one wetland data sheet for each wetland/community type.

Jurisdictional Determination Request

Delineation Information (when applicable):

Wetlands:

Wetland Data Sheets⁹

Upland Data Sheets

Landscape Photos, if taken

Field Sketch overlain on legible Map that includes:


- All aquatic resources (for sites with multiple resources, label and identify)
- Locations of wetland data points and/or tributary assessment reaches
- Locations of photo stations
- Approximate acreage/linear footage of aquatic resources

Tributaries:

USACE Assessment Forms

Other Assessment Forms
(when appropriate)

Supporting Jurisdictional Information (for Approved JDs only)

Approved Jurisdictional Determination Form(s) (also known as “Bapanos Form(s)”) 

Map(s) depicting the potential (or lack of potential) hydrologic connection(s), adjacency, etc. to navigable waters.

⁹ Delineation information must include, at minimum, one wetland data sheet for each wetland/community type.

Jurisdictional Determination Request

I. REQUESTS FOR CORPS APPROVAL OF SURVEY PLAT

Prior to final production of a Plat, the Wilmington District recommends that the Land Surveyor electronically submit a draft of a Survey Plat to the Corps project manager for review.

Due to storage limitations of our administrative records, the Corps requires that all hard-copy submittals include at least one original Plat (to scale) that is no larger than 11"x17" (the use of match lines for larger tracts acceptable). Additional copies of a plat, including those larger than 11"x17", may also be submitted for Corps signature as needed. The Corps also accepts electronic submittals of plats, such as those transmitted as a Portable Document Format (PDF) file. Upon verification, the Corps can electronically sign these plats and return them via e-mail to the requestor.

(1) PLATS SUBMITTED FOR APPROVAL

- Must be sealed and signed by a licensed professional land surveyor
- Must be to scale (all maps must include both a graphic scale and a verbal scale)
- Must be legible
- Must include a North Arrow, Scale(s), Title, Property Information
- Must include a legible WoUS Delineation Table of distances and bearings/metres and bounds/GPS coordinates of all surveyed delineation points
- Must clearly depict surveyed property or project boundaries
- Must clearly identify the known surveyed point(s) used as reference (e.g. property corner, USGS monument)
- When wetlands are depicted:
 - Must include acreage (or square footage) of wetland polygons
 - Must identify each wetland polygon using an alphanumeric system

Jurisdictional Determination Request

- When tributaries are depicted:
 - Must include either a surveyed, approximate centerline of tributary with approximate width of tributary OR surveyed Ordinary High Water Marks (OHWM) of tributary
 - Must identify each tributary using an alphanumeric system
 - Must include linear footage of tributaries and calculated area (using approximate widths or surveyed OHWM)
 - Must include name of tributary (based on the most recent USGS topographic map) or, when no USGS name exists, identify as “unnamed tributary”

- all depicted WoUS (wetland polygons and tributary lines) must intersect or tie-to surveyed project/property boundaries

- Must include the location of wetland data points and/or tributary assessment reaches

- Must include, label accordingly, and depict acreage of all waters not currently subject to the requirements of the CWA (e.g. “isolated wetlands”, “non-jurisdictional waters”). NOTE: An approved JD must be conducted in order to make an official Corps determination that a particular waterbody or wetland is not jurisdictional.

- Must include and survey all existing conveyances (pipes, culverts, etc.) that transport WoUS

Jurisdictional Determination Request

(2) CERTIFICATION LANGUAGE

When the entire actual Jurisdictional Boundary is depicted:

include the following Corps Certification language:

"This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is a change in the law or our published regulations, the determination of Section 404 jurisdiction may be relied upon for a period not to exceed five (5) years from this date. The undersigned completed this determination utilizing the appropriate Regional Supplement to the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual."

Regulatory Official: _____

Title: _____

Date: _____

USACE Action ID No.: _____

When uplands may be present within a depicted Jurisdictional Boundary:

include the following Corps Certification language:

"This certifies that this copy of this plat identifies all areas of waters of the United States regulated pursuant to Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is change in the law or our published regulations, this determination of Section 404 jurisdiction may be relied upon for a period not to exceed five years from this date. The undersigned completed this determination utilizing the appropriate Regional Supplement to the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual."

Regulatory Official: _____

Title: _____

Date: _____

USACE Action ID No.: _____

Jurisdictional Determination Request

(3) GPS SURVEYS

For Surveys prepared using a Global Positioning System (GPS), the Survey must include all of the above, as well as:

- be at sub-meter accuracy at each survey point.
- include an accuracy verification:
One or more known points (property corner, monument) shall be located with the GPS and cross-referenced with the existing traditional property survey (metes and bounds).
- include a brief description of the GPS equipment utilized.

**ATTACHMENT A
PRELIMINARY JURISDICTIONAL DETERMINATION FORM**

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): _____

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
NCDOT; ATTN: Chris Rivenbark, Natural Environment Section

1598 Mail Service Center; Raleigh, NC 27699-1598

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: Edgecombe City: Pinetops

Center coordinates of site (lat/long in degree decimal format):
Lat. 35.798478 °N; Long. 77.591359 °W.

Universal Transverse Mercator: 18

Name of nearest waterbody: Town Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters:
1,326 linear feet: 5-65 width (ft) and/or N/A acres.

Cowardin Class: Riverine

Stream Flow: Perennial (Town Creek, SB)

Wetlands: 0.2 acres.

Cowardin Class: Palustrine

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: N/A

Non-Tidal: N/A

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: _____

Field Determination. Date(s): _____

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: NCDOT

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps: _____

Corps navigable waters' study: _____

U.S. Geological Survey Hydrologic Atlas: _____

USGS NHD data

USGS 8 and 12 digit HUC maps

U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 - Old Sparta

USDA Natural Resources Conservation Service Soil Survey.
Citation: Edgecombe County Area, 1979

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): NC Statewide Orthoimagery Project (2015) or

Other (Name & Date): _____

Previous determination(s). File no. and date of response letter: _____

Other information (please specify): _____

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

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 approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that 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) that 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) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (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 preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes 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 approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, 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, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there “*may be*” waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

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.

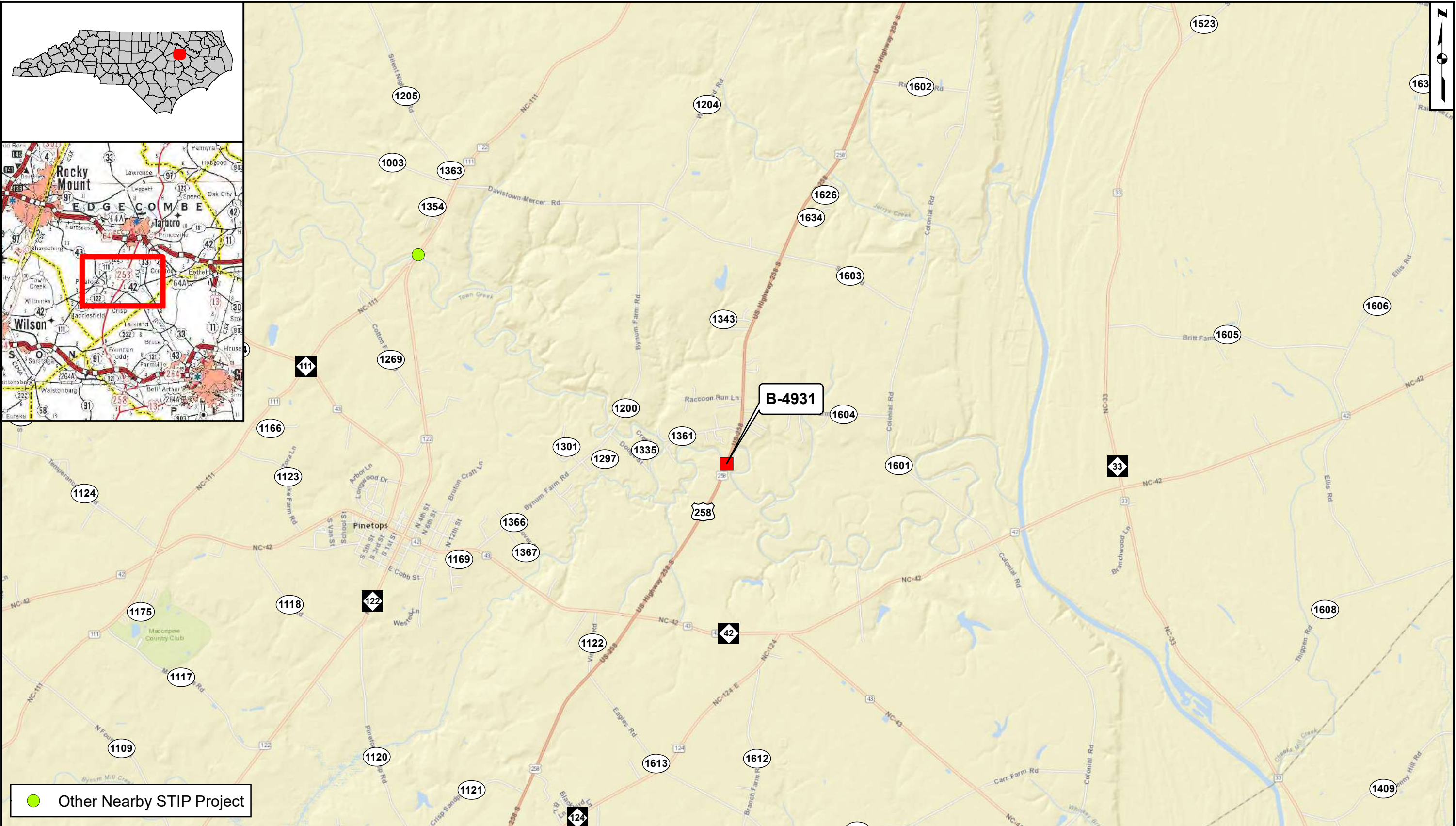
Signature and date of
Regulatory Project Manager
(REQUIRED)

Digitally signed by Jason
Dilday
Date: 2019.10.09 10:19:50
-04'00'

Jason Dilday

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

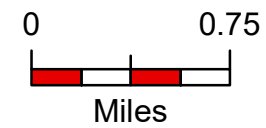
Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
Town Creek	35.798210	-77.591357	Riverine	1,080 linear feet	Non-section 10 – non-tidal
SB	35.232487	-77.821421	Riverine	136 linear feet	Non-section 10 – non-tidal
WA	35.799846	-77.591087	Palustrine	0.2 acre	Non-section 10 – wetland



NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT DEVELOPMENT AND
ENVIRONMENTAL ANALYSIS UNIT

VICINITY MAP
Replace Bridge No. 22 on US 258
over Town Creek in Edgecombe County

TIP Project B-4931



Div: 4	TIP# B-4931
Date: DECEMBER 2015	

Figure
1

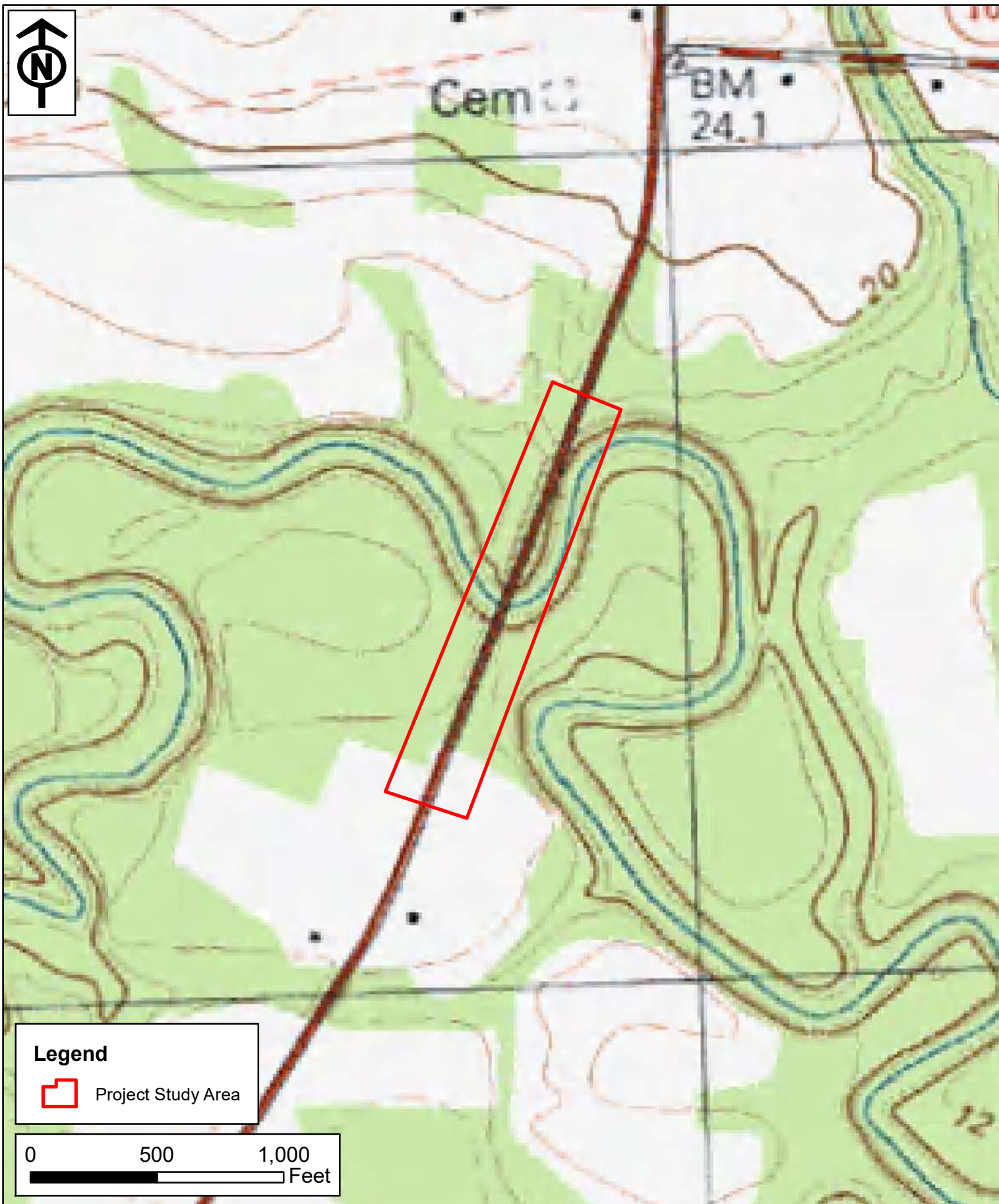


Figure 2: Project Study Area Map

TIP B-4931

Replace Bridge No. 22 on US 258 over Town Creek

Edgecombe County, NC



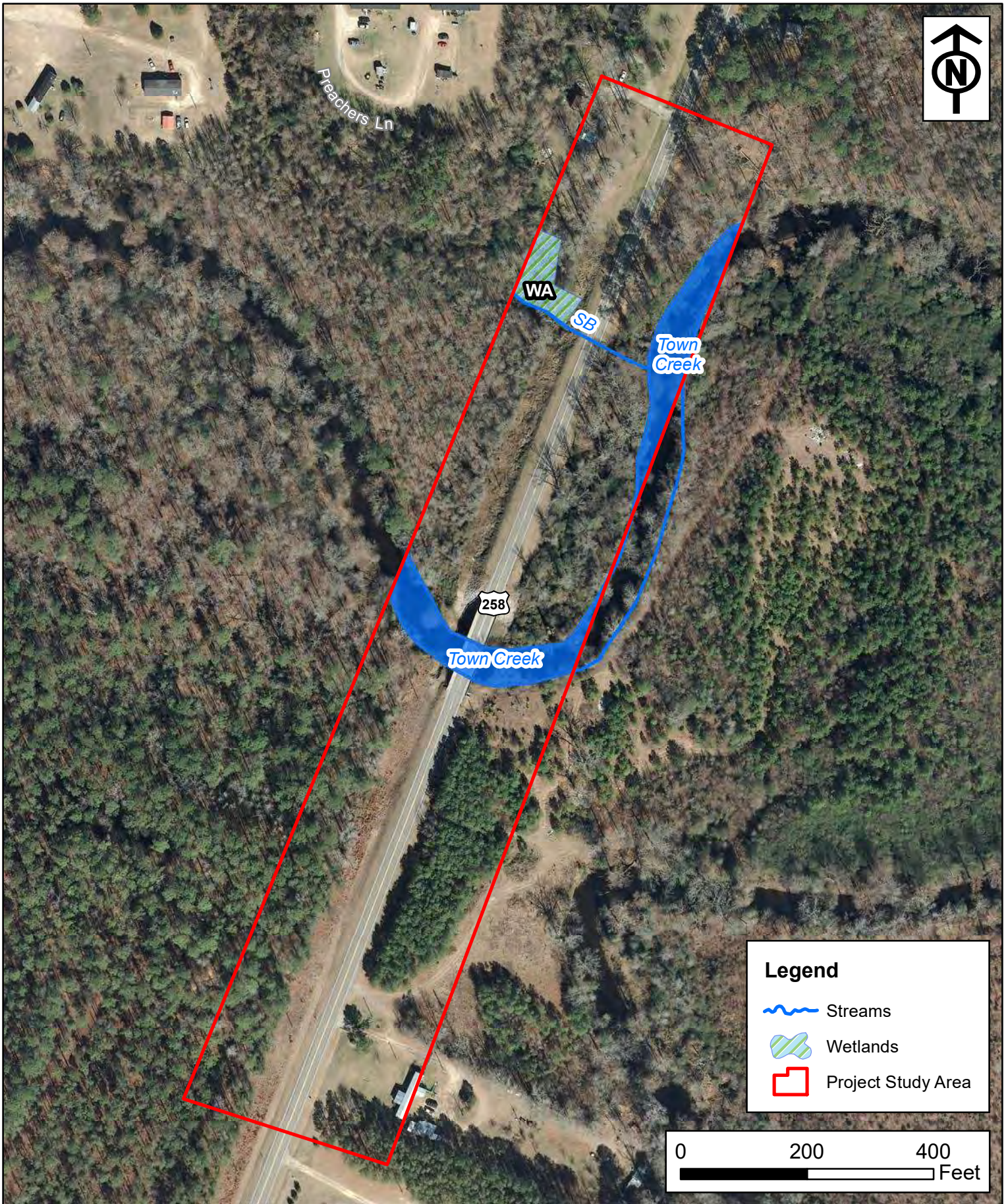
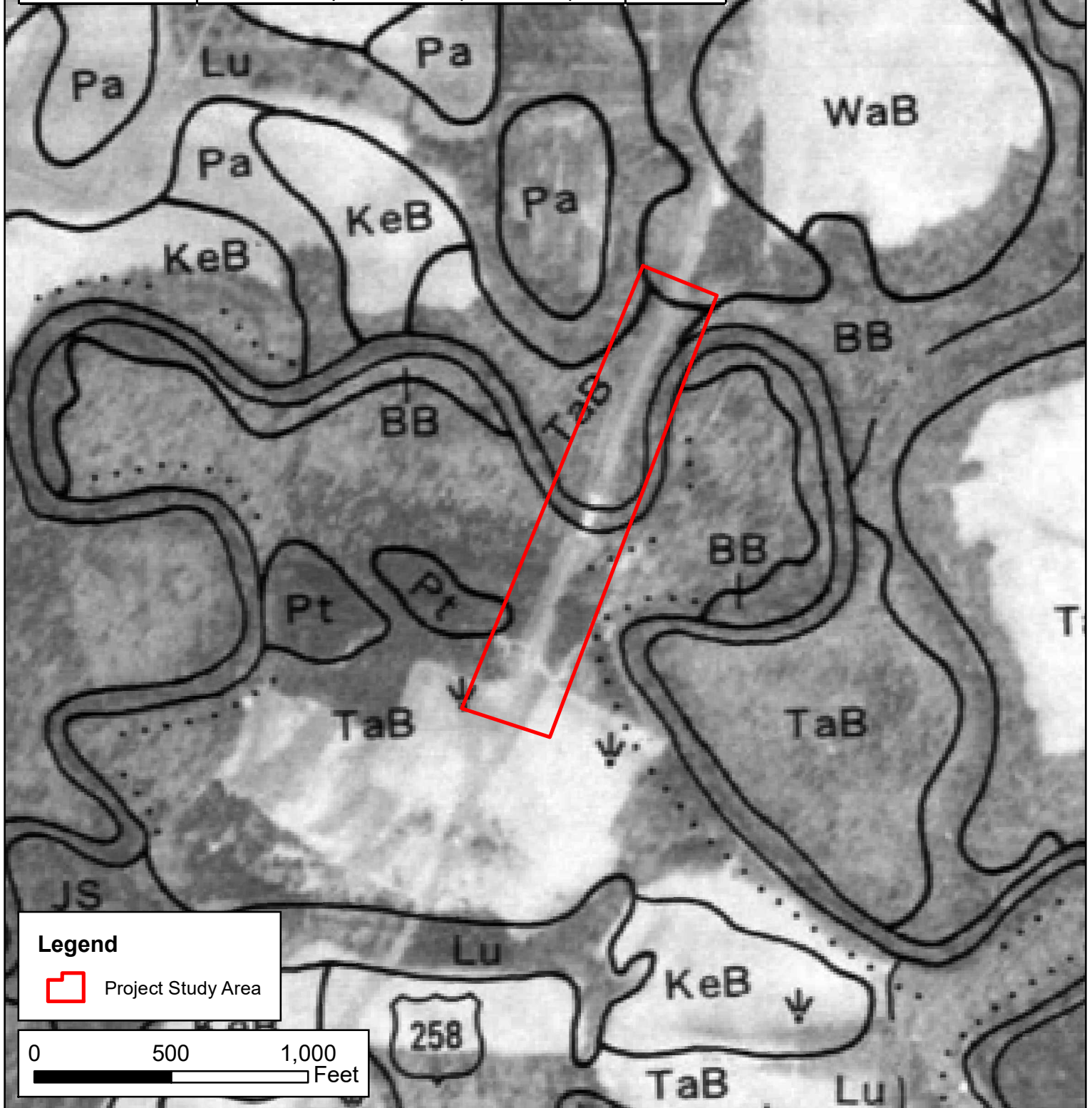


Figure 3: Jurisdictional Features Map
 TIP B-4931
 Replace Bridge No. 22 on US 258 over Town Creek
 Edgecombe County, NC




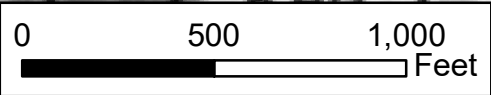
Hydric Soil Table

Map Unit Symbol	Map Unit Name	Hydric
Lu	Lumbee fine sandy loam	Yes
Pt	Pits	N/A
TaB	Tarboro loamy sand, 0 to 6 percent slopes	No



Legend

 Project Study Area



**Figure 4: NRCS Soil Survey Map
Edgecombe, 1979**

TIP B-4931

Replace Bridge No. 22 on US 258 over Town Creek
Edgecombe County, NC



North Carolina Division of Water Quality - Stream Identification Form, Version 4.11

**SB
B-4931**

Date: 6/6/2016	Project/Site: Stream SB TIP #B-4931	Latitude: 35.799535
Evaluator: B. Reed (Kimley-Horn) J. Hartshorn (Kimley-Horn)	County: Edgecombe	Longitude: -77.590662
Total Points: 31.25 Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	Stream Determination (circle one) Ephemeral Intermittent Perennial	Other e.g. Quad Name: Old Sparta Quad

A. Geomorphology Subtotal = 16	Absent	Weak	Moderate	Strong	Score
1 ^a . Continuity of channel bed and bank	0	1	2	3	2
2. Sinuosity of channel along thalweg	0	1	2	3	2
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	2
4. Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	1
6. Depositional bars or benches	0	1	2	3	1
7. Recent alluvial deposits	0	1	2	3	2
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	1
11. Second or greater order channel	No = 0		Yes = 3		3

^a artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 8.5	Absent	Weak	Moderate	Strong	Score
12. Presence of Baseflow	0	1	2	3	2
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	1.5	1	0.5	0	1
15. Sediment on plants or debris	0	0.5	1	1.5	1
16. Organic debris lines or piles	0	0.5	1	1.5	1.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology Subtotal = 6.75	Absent	Weak	Moderate	Strong	Score
18. Fibrous roots in streambed	3	2	1	0	2
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	0
23. Crayfish	0	0.5	1	1.5	0
24. Amphibians	0	0.5	1	1.5	0
25. Algae	0	0.5	1	1.5	1
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0.75

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Stream SB is a small perennial tributary of Town Creek within the study corridor. The bankful width is 3-5' with a height of 1-4'. The water is clear and 2-6" deep. SB has a moderate flow and a sandy substrate. Algae has formed on the streambed behind organic debris lines.

North Carolina Division of Water Quality - Stream Identification Form, Version 4.11

**Town
Creek
B-4931**

Date: 6/6/2016	Project/Site: Town Creek TIP #B-4931	Latitude: 35.798176
Evaluator: B. Reed (Kimley-Horn) J. Hartshorn (Kimley-Horn)	County: Edgecombe	Longitude: -77.591345
Total Points: 41.75 Stream is at least intermittent if ≥ 19 or perennial if ≥ 30	Stream Determination (circle one) Ephemeral Intermittent Perennial	Other e.g. Quad Name: Old Sparta Quad

A. Geomorphology Subtotal = 21.5	Absent	Weak	Moderate	Strong	Score
1 ^a . Continuity of channel bed and bank	0	1	2	3	3
2. Sinuosity of channel along thalweg	0	1	2	3	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	2
4. Particle size of stream substrate	0	1	2	3	2
5. Active/relic floodplain	0	1	2	3	3
6. Depositional bars or benches	0	1	2	3	2
7. Recent alluvial deposits	0	1	2	3	2
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	1.5
11. Second or greater order channel	No = 0		Yes = 3		3

^a artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal = 9.5	Absent	Weak	Moderate	Strong	Score
12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	1.5	1	0.5	0	1
15. Sediment on plants or debris	0	0.5	1	1.5	1
16. Organic debris lines or piles	0	0.5	1	1.5	1.5
17. Soil-based evidence of high water table?	No = 0		Yes = 3		3

C. Biology Subtotal = 10.75	Absent	Weak	Moderate	Strong	Score
18. Fibrous roots in streambed	3	2	1	0	2
19. Rooted upland plants in streambed	3	2	1	0	3
20. Macroinvertebrates (note diversity and abundance)	0	1	2	3	0
21. Aquatic Mollusks	0	1	2	3	0
22. Fish	0	0.5	1	1.5	1.5
23. Crayfish	0	0.5	1	1.5	1.5
24. Amphibians	0	0.5	1	1.5	1.5
25. Algae	0	0.5	1	1.5	0.5
26. Wetland plants in streambed	FACW = 0.75; OBL = 1.5; Other = 0				0.75

*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Town Creek is a perennial coastal plain stream within the study corridor. The bankful width is roughly 65' with a height of 8'. The water is slightly turbid and 2-4' deep. Town Creek has a moderate flow and a sandy substrate. Organic debris lines have formed in the stream.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: TIP# B-4931 City/County: Edgecombe Sampling Date: 6/8/2016
 Applicant/Owner: NCDOT State: NC Sampling Point: WA-UP
 Investigator(s): B. Reed & J. Hartshorn (Kimley-Horn) Section, Township, Range: Sparta
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 0-2%
 Subregion (LRR or MLRA): LRR P Lat: 35.799934 Long: -77.590928 Datum: NAD83
 Soil Map Unit Name: TaB - Tarboro loamy sand, 0 to 6 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

Data point WA-UP was taken on a hillslope, roughly 10' upslope and 1' higher in elevation than the wetland data point WA.

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) <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) (LRR T, U)
---	---

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>>18"</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>>18"</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No primary or secondary hydrology indicators were observed at WA-UP.

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WA-UP

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30'</u>)				
1. <u>Liquidambar styraciflua</u>	<u>10%</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Acer rubrum</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Liriodendron tulipifera</u>	<u>5%</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Carpinus caroliniana</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
5. _____				
6. _____				
7. _____				
8. _____				
<u>25%</u> = Total Cover				
50% of total cover: <u>12.5%</u> 20% of total cover: <u>5%</u>				
Sapling/Shrub Stratum (Plot size: <u>30'</u>)				
1. <u>Carpinus caroliniana</u>	<u>10%</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Ligustrum sinense</u>	<u>10%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Acer rubrum</u>	<u>5%</u>	<u>N</u>	<u>FAC</u>	
4. <u>Nyssa biflora</u>	<u>5%</u>	<u>N</u>	<u>OBL</u>	
5. _____				
6. _____				
7. _____				
8. _____				
<u>30%</u> = Total Cover				
50% of total cover: <u>15%</u> 20% of total cover: <u>6%</u>				
Herb Stratum (Plot size: <u>30'</u>)				
1. <u>Woodwardia areolata</u>	<u>10%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Woodwardia virginica</u>	<u>5%</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Microstegium vimineum</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>20%</u> = Total Cover				
50% of total cover: <u>10%</u> 20% of total cover: <u>4%</u>				
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. <u>Toxicodendron radicans</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Parthenocissus quinquefolia</u>	<u>5%</u>	<u>Y</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
<u>10%</u> = Total Cover				
50% of total cover: <u>5%</u> 20% of total cover: <u>2%</u>				

Remarks: (If observed, list morphological adaptations below).

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 9 (A)

Total Number of Dominant Species Across All Strata: 11 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 81.8% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: WA-UP

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 ¹	Loc ²		
0-6"	10YR 2/2	100%					Loam	
6-12"	10YR 3/2	100%					Loam	
12-18"	10YR 4/2	100%					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A, B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators 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:

WA-UP soils were dry and friable throughout the 18" profile.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: TIP# B-4931 City/County: Edgecombe Sampling Date: 6/8/2016
 Applicant/Owner: NCDOT State: NC Sampling Point: WA-WET
 Investigator(s): B. Reed & J. Hartshorn (Kimley-Horn) Section, Township, Range: Sparta
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 2%
 Subregion (LRR or MLRA): LRR P Lat: 35.799846 Long: -77.591083 Datum: NAD83
 Soil Map Unit Name: TaB - Tarboro loamy sand, 0 to 6 percent slopes NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks:

WA is a headwater forest wetland beginning at many groundwater seeps. WA slopes down to SB which drains to Town Creek within the study area.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)	
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>N/A</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u>> 18"</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches): <u>10"</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WA is a headwater wetland primarily influenced by groundwater.

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WA-WET

<u>Tree Stratum</u> (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u><i>Acer rubrum</i></u>	<u>30%</u>	<u>Y</u>	<u>FAC</u>
2.	<u><i>Betula nigra</i></u>	<u>20%</u>	<u>Y</u>	<u>FACW</u>
3.	<u><i>Liquidambar styraciflua</i></u>	<u>20%</u>	<u>Y</u>	<u>FAC</u>
4.	<u><i>Carpinus caroliniana</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
5.	<u><i>Ulmus americana</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
6.				
7.				
8.				
		<u>90%</u> = Total Cover		
		50% of total cover: <u>45%</u>	20% of total cover: <u>18%</u>	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u><i>Nyssa biflora</i></u>	<u>20%</u>	<u>Y</u>	<u>OBL</u>
2.	<u><i>Ligustrum sinense</i></u>	<u>20%</u>	<u>Y</u>	<u>FAC</u>
3.	<u><i>Carpinus caroliniana</i></u>	<u>20%</u>	<u>Y</u>	<u>FAC</u>
4.	<u><i>Acer rubrum</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
5.	<u><i>Magnolia grandiflora</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
6.				
7.				
8.				
		<u>80%</u> = Total Cover		
		50% of total cover: <u>40%</u>	20% of total cover: <u>16%</u>	
<u>Herb Stratum</u> (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u><i>Saururus cernuus</i></u>	<u>25%</u>	<u>Y</u>	<u>OBL</u>
2.	<u><i>Woodwardia virginica</i></u>	<u>20%</u>	<u>Y</u>	<u>OBL</u>
3.	<u><i>Woodwardia areolata</i></u>	<u>20%</u>	<u>Y</u>	<u>OBL</u>
4.	<u><i>Impatiens capensis</i></u>	<u>10%</u>	<u>N</u>	<u>FACW</u>
5.	<u><i>Microstegium vimineum</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
6.	<u><i>Polygonum sp.</i></u>	<u>10%</u>	<u>N</u>	<u>FAC</u>
7.	<u><i>Boehmeria cylindrica</i></u>	<u>5%</u>	<u>N</u>	<u>FACW</u>
8.				
9.				
10.				
11.				
12.				
		<u>100%</u> = Total Cover		
		50% of total cover: <u>50%</u>	20% of total cover: <u>20%</u>	
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u><i>Campsis radicans</i></u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>
2.	<u><i>Smilax rotundifolia</i></u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>
3.	<u><i>Toxicodendron radicans</i></u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>
4.				
5.				
		<u>15%</u> = Total Cover		
		50% of total cover: <u>7.5%</u>	20% of total cover: <u>3%</u>	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 12 (A)

Total Number of Dominant Species Across All Strata: 12 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____
Prevalence Index = B/A = _____	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes No

Remarks: (If observed, list morphological adaptations below).

WA has an herbaceous layer that blankets the wetland.

SOIL

Sampling Point: WA-WET

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 ¹	Loc ²		
0-4"	10YR 3/1	100%					Loam	
4-10"	10YR 4/1	100%					Loam	
10-18"	10YR 5/1	90%	10YR 5/8	10%	C	M	Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A, B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

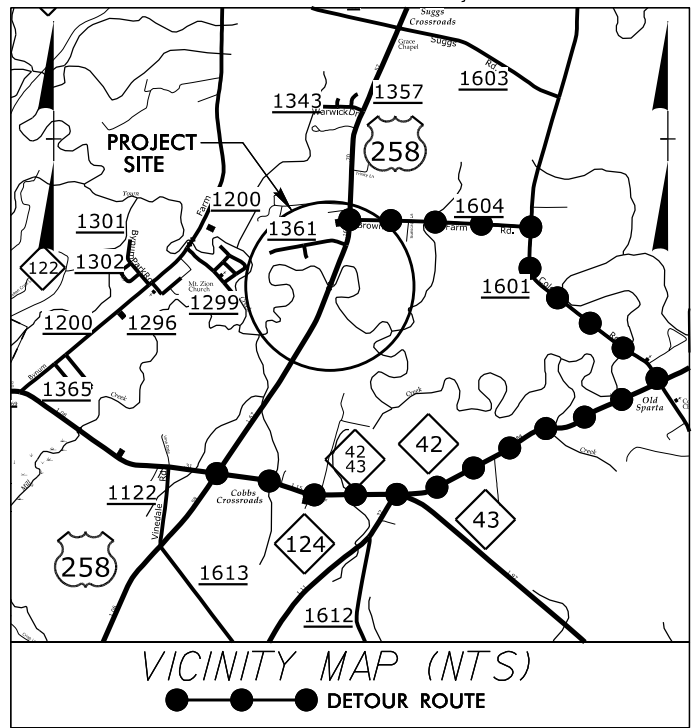
Hydric Soil Present? Yes No

Remarks:

The sampled soil was saturated at 10", though the water table was not observed in the upper 18". Saturation is likely from recent rainfall seeping through the upper surface.

09.08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



75% PLANS

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

**PERMIT DRAWING
SHEET 1 OF 4**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4931	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
40134.1.1		P.E.	
40134.2.1		RW & UTIL	
40134.3.1		CONST.	

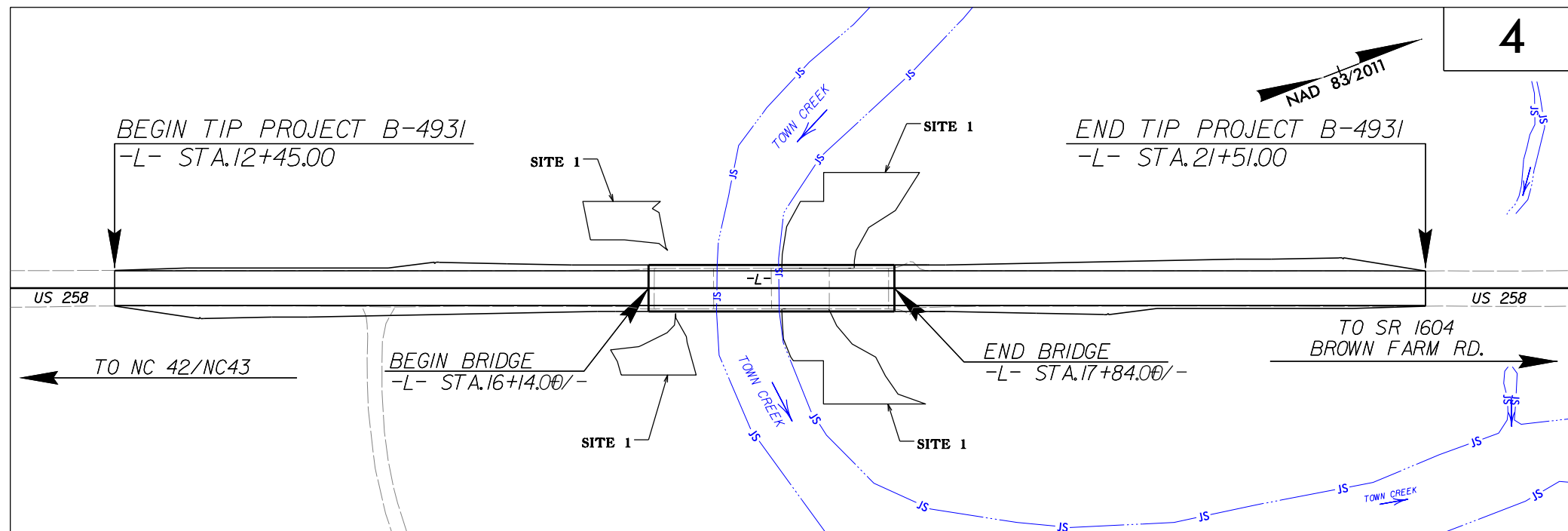
EDGECOMBE COUNTY

**LOCATION: REPLACE BRIDGE NO. 22 OVER
TOWN CREEK ON US 258**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

BUFFER IMPACTS

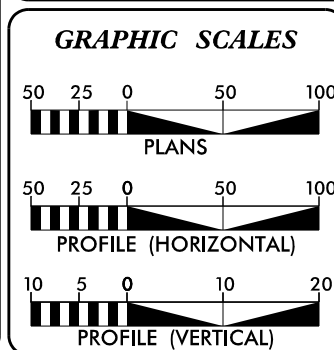
TIP PROJECT: B-4931



THIS PROJECT IS NOT WITHIN MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

**INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

CONTRACT:



DESIGN DATA

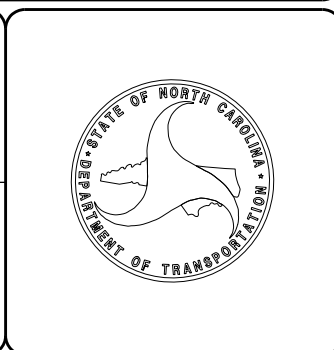
ADT 2020 =	3100
ADT 2040 =	4100
K =	10 %
D =	55 %
T =	8 % *
V =	60 MPH
* TTST =	3% DUAL 5%
FUNC. CLASS =	MINOR ARTERIAL
REGIONAL TIER	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4931 =	.140 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4931 =	.032 MILES
TOTAL LENGTH OF TIP PROJECT B-4931 =	.172 MILES

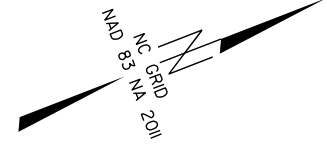
Prepared in the Office of: KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	Plans Prepared For: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh NC, 27610
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: SEPT. 6, 2019	DEWAYNE L. SYKES, P.E. PROJECT ENGINEER
LETTING DATE: MAY 19, 2020	BRYAN E. HOUGH, P.E. PROJECT DESIGN ENGINEER
NCDOT CONTACT:	KRISTY ALFORD, P.E. STRUCTURES MANAGEMENT UNIT

HYDRAULICS ENGINEER	_____ P.E.
ROADWAY DESIGN ENGINEER	_____ P.E.



9/23/2019
M:\2018\258\Hydraulics\PERMITS\Environmental\Buffer Impacts\Drawings\B-4931_prm_buf_tsh.dgn
Elizabeth Sheldon

PERMIT DRAWING SHEET 2 OF 4



PROJECT REFERENCE NO. B-4931	SHEET NO. PRM-2
R/W SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROBERT EARL WOOTEN, ET. AL.
DB 122 PG 50
PLAT CABINET 2 SLIDE 129A

POT Sta. 10+00.00

15

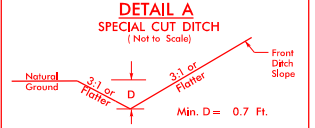
20

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	246 SF	0 SF	606 SF	541 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	2191 SF	1421 SF	0 SF	236 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	852 SF	6 SF	34 SF	394 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	1841 SF	1054 SF	0 SF	86 SF



FROM -L- STA. 14+00 TO STA. 15+00 RT

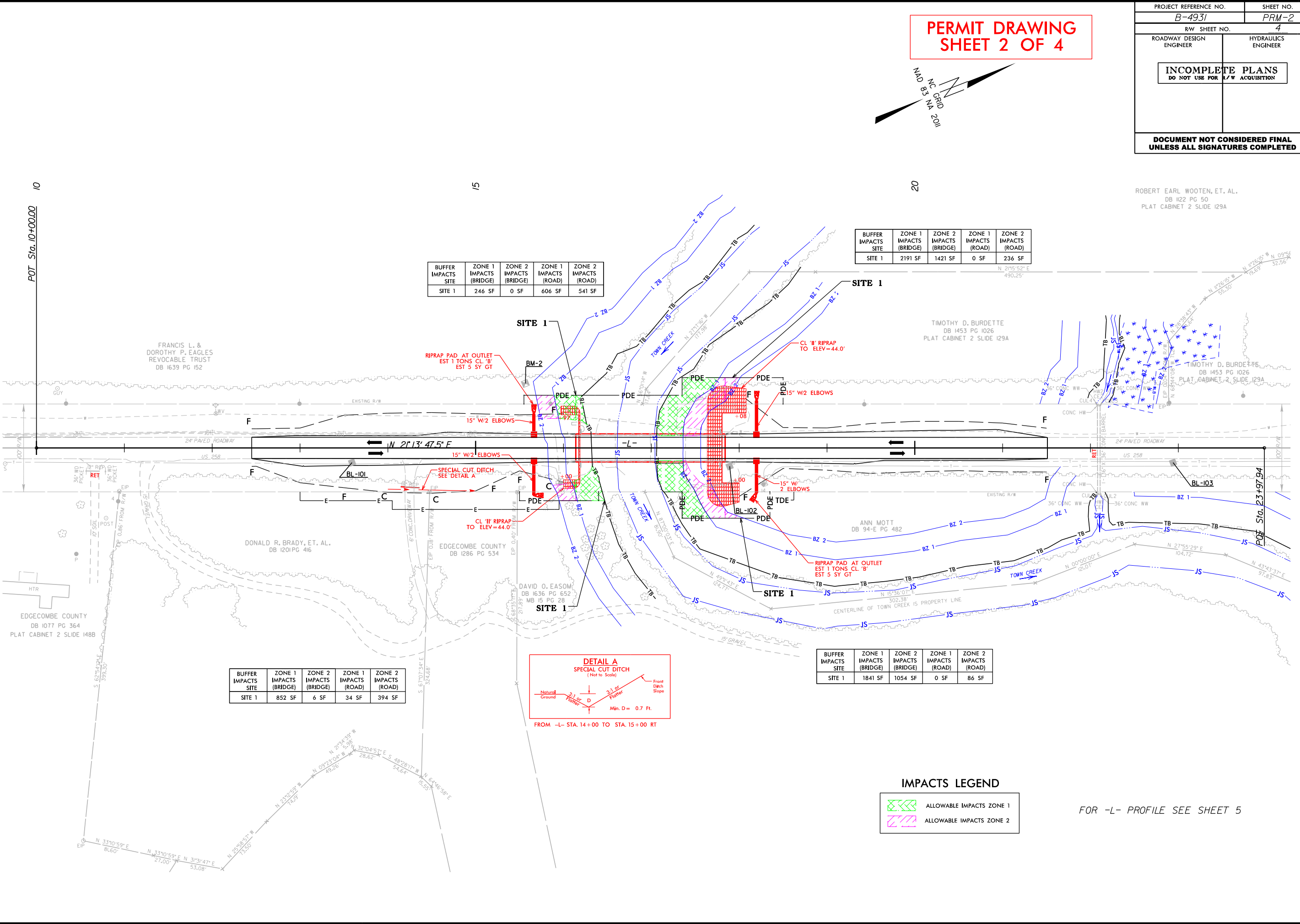
IMPACTS LEGEND

	ALLOWABLE IMPACTS ZONE 1
	ALLOWABLE IMPACTS ZONE 2

FOR -L- PROFILE SEE SHEET 5

REVISIONS

8/17/99
 R:\2018\51801945\B-4931\Hydro\Permits\PERMITS_Environmental\Drawings\B-4931.prm.psh.dgn
 Elizabeth Sheldon



PROJECT REFERENCE NO. B-4931	SHEET NO. PRM-3
RW SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

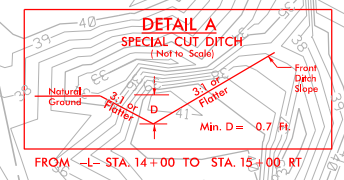
**PERMIT DRAWING
SHEET 3 OF 4**

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	2191 SF	1421 SF	0 SF	236 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	246 SF	0 SF	606 SF	541 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	852 SF	6 SF	34 SF	394 SF

BUFFER IMPACTS SITE	ZONE 1 IMPACTS (BRIDGE)	ZONE 2 IMPACTS (BRIDGE)	ZONE 1 IMPACTS (ROAD)	ZONE 2 IMPACTS (ROAD)
SITE 1	1841 SF	1054 SF	0 SF	86 SF

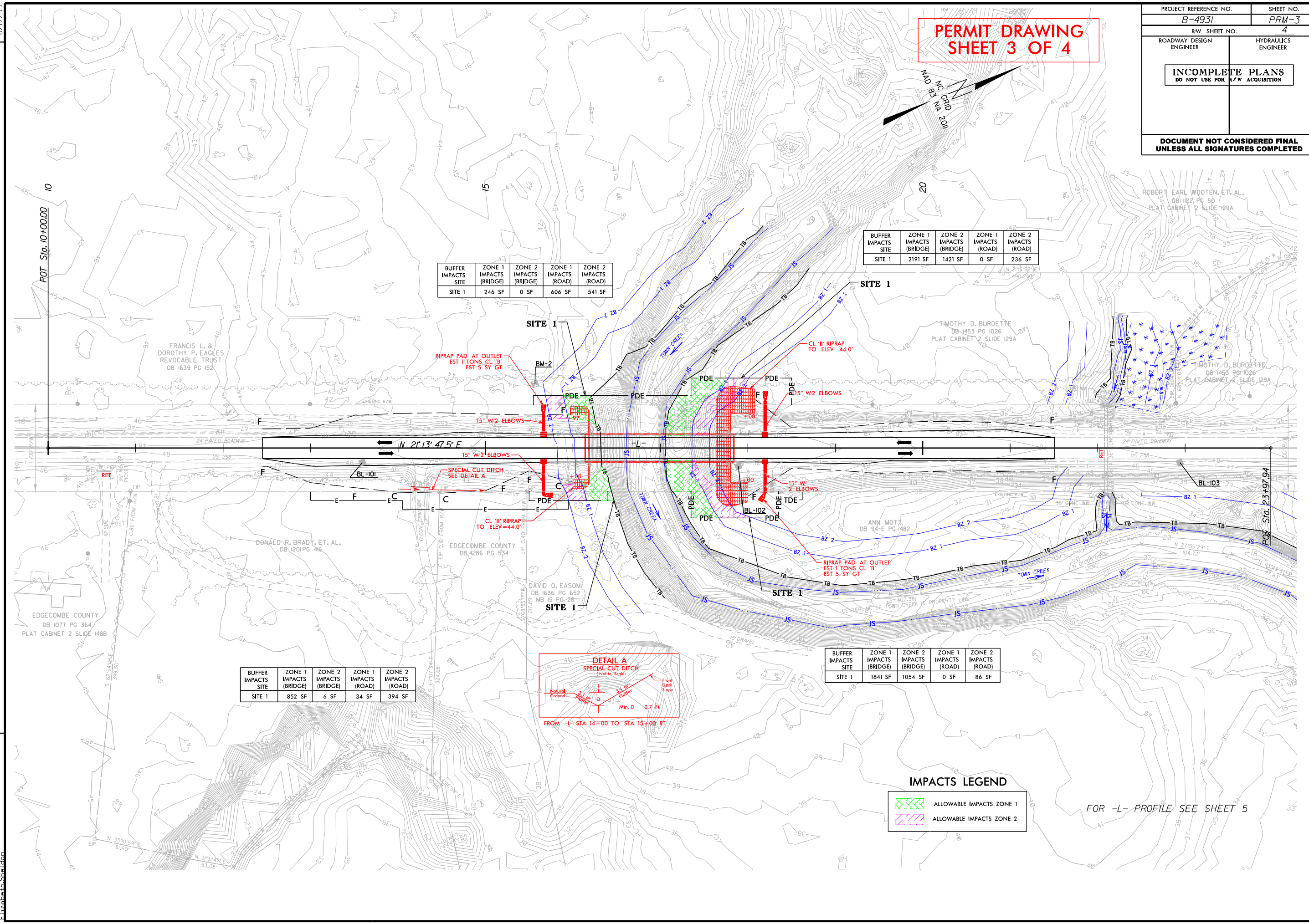


IMPACTS LEGEND

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

FOR -L- PROFILE SEE SHEET 5

REVISIONS
 8/17/99
 8/20/2018
 Elizabeth Sheldon
 Environmental\Drawings\B-4931.prm.psh.con\dgn



RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1	STA 16+14 TO STA 16+27 LT	170' BRIDGE		X		246.0	0.0	246.0					
1	STA 15+69 TO STA 16+14 LT	ROAD CROSSING	X			606.0	541.0	1147.0					
1	STA 16+14 TO STA 16+47 RT	170' BRIDGE		X		852.0	6.0	858.0					
1	STA 15+88 TO STA 16+14 RT	ROAD CROSSING	X			34.0	394.0	428.0					
1	STA 17+06 TO STA 17+84 RT	170' BRIDGE		X		1848.0	1054.0	2902.0					
1	STA 17+84 TO STA 18+05 RT	ROAD CROSSING	X			0.0	86.0	86.0					
1	STA 17+06 TO STA 17+84 LT	170' BRIDGE		X		2191.0	1421.0	3612.0					
1	STA 17+84 LT STA 18+01 LT	ROAD CROSSING	X			0	236	236.0					
TOTALS*:						5777	3738	9515	0	0	0	0	0

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 9/18/2019
 EDGEcombe COUNTY
 B-4931
 40134.1.1

SHEET 4 OF 4



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 2.07; Released October 2016)

WBS Element: 40134.1.1 TIP No.: B-4931 County(ies): Edgecombe Page 1 of 1

General Project Information

WBS Element:	40134.1.1	TIP Number:	B-4931	Project Type:	Bridge Replacement	Date:	9/19/2019
NCDOT Contact:	Tierre Peterson		Contractor / Designer:	Leah Young, PE			
Address:	1000 Birch Ridge Dr Raleigh, NC 27610		Address:	4505 Falls of Neuse Road Suite 400 Raleigh, NC 27609			
	Phone:	(919) 707-6488		Phone:	(919) 783-9214		
	Email:	trpeterson@ncdot.gov		Email:	Leah.Young@kci.com		
City/Town:	None		County(ies):	Edgecombe			
River Basin(s):	Tar-Pamlico		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

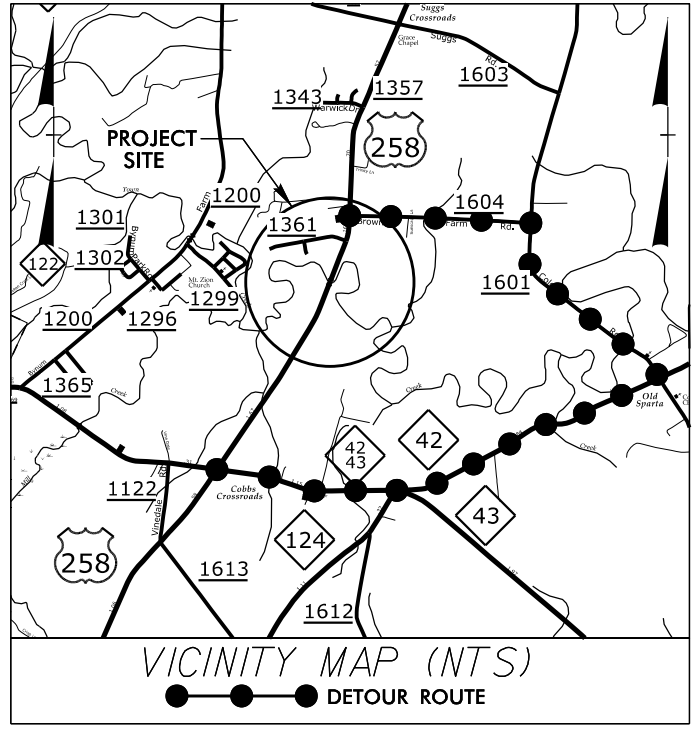
Project Length (lin. miles or feet):	0.17	Surrounding Land Use:	Woods/rural residential					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	0.7	ac.	0.6	ac.				
Typical Cross Section Description:	12' TRAVEL LANES WITH 4' PAVED SHOULDER AT BRIDGE; 35.25' OUT TO OUT			APPROXIMATE 10' TRAVEL LANES WITH 2' PAVED SHOULDER				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	4100	Year:	2040	Existing:	3100	Year:	2020
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>The project will replace Edgecombe County Bridge #0022 and its approaches. The proposed replacement is 170' long with a clear roadway width of 32'. This structure provides 2-12' travel lanes with a 4' paved shoulder. The proposed bridge will have 1.5:1 sloping riprap abutments and 4' caps at the end bents. Placement and construction of the proposed bridge, end bents, caps, and associated roadway fill will not result in any jurisdictional stream or similar environmental impacts. There will be no permanent channel changes. There are some wetlands present on the far east side of the project within the proposed limits of construction. The removal of the existing structure, excavation under the bridge, and placement of riprap for bank stabilization does not result in any surface water or wetland impacts. There are 30' and 50' buffer zones present outside of the existing stream. STORMWATER CONTROLS: The proposed bridge does not require deck drains. The runoff from the bridge discharges through pipe/inlet systems in all four quadrants outside of the jurisdictional stream at non-erosive velocities. In all bridge quadrants, roadway runoff is treated via vegetated roadway shoulders and existing vegetated swales prior to entering the stream.</p>							

Waterbody Information

Surface Water Body (1):	Town Creek		NCDWR Stream Index No.:	28-83b			
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C				
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)				
Other Stream Classification:	None						
Impairments:	None						
Aquatic T&E Species?	Yes	Comments: ANADROMOUS FISH					
NRTR Stream ID:	N/A		Buffer Rules in Effect:	Tar-Pamlico			
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	No		
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)							

09.08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



75% PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PERMIT DRAWING
SHEET 1 OF 5**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4931	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
40134.1.1		P.E.	
40134.2.1		RW & UTIL	
40134.3.1		CONST.	

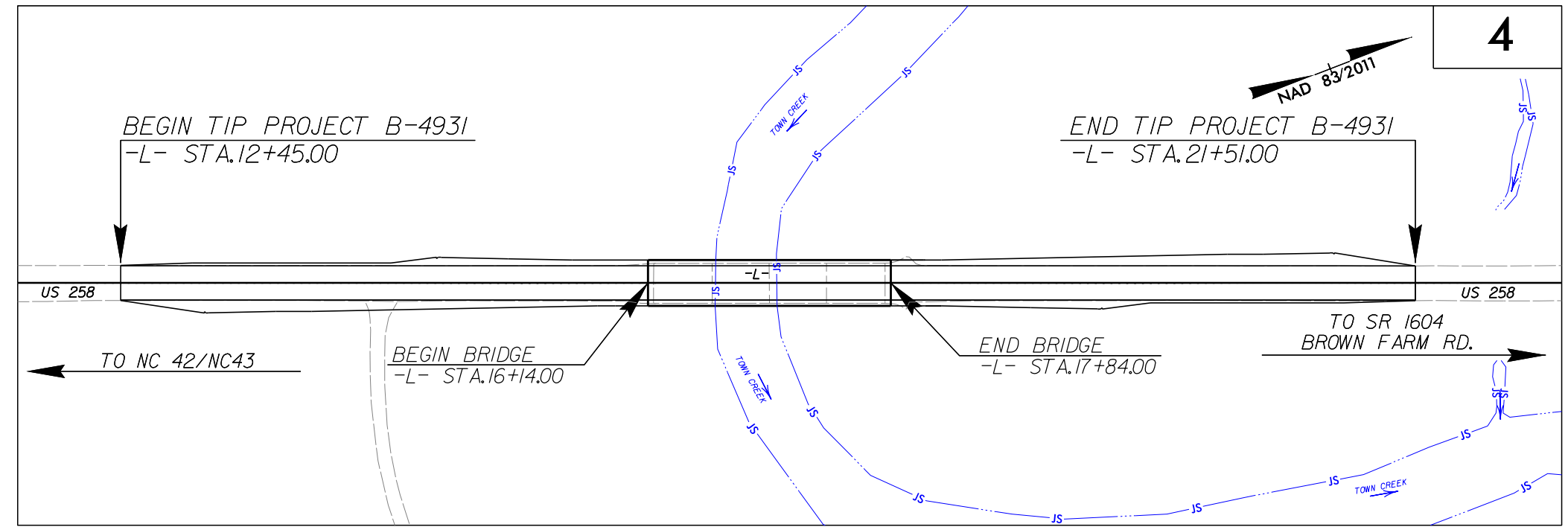
EDGECOMBE COUNTY

**LOCATION: REPLACE BRIDGE NO. 22 OVER
TOWN CREEK ON US 258**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

**WETLAND AND STREAM
IMPACTS**

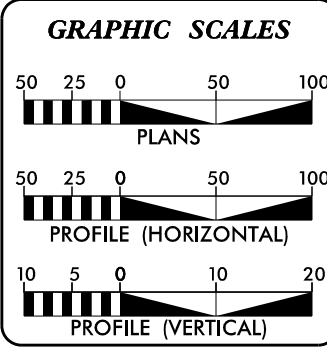
TIP PROJECT: B-4931



THIS PROJECT IS NOT WITHIN MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

**INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

CONTRACT:



DESIGN DATA

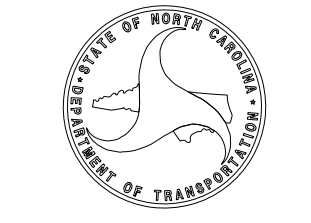
ADT 2020 =	3100
ADT 2040 =	4100
K =	10 %
D =	55 %
T =	8 % *
V =	60 MPH
* TTST = 3% DUAL 5%	
FUNC. CLASS = MINOR ARTERIAL	
REGIONAL TIER	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4931 =	.140 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4931 =	.032 MILES
TOTAL LENGTH OF TIP PROJECT B-4931 =	.172 MILES

Prepared in the Office of: KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	Plans Prepared For: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh NC, 27610
2018 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: SEPT. 6, 2019	DEWAYNE L. SYKES, P.E. PROJECT ENGINEER
LETTING DATE: MAY 19, 2020	BRYAN E. HOUGH, P.E. PROJECT DESIGN ENGINEER
NCDOT CONTACT:	KRISTY ALFORD, P.E. STRUCTURES MANAGEMENT UNIT

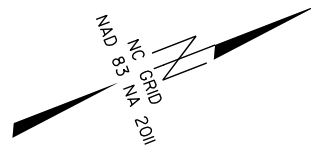
HYDRAULICS ENGINEER	_____ P.E.
ROADWAY DESIGN ENGINEER	_____ P.E.



9/23/2019
M:\2018\251801945.19 B-4931\Hydraulics\PERMITS\Environmental\Wetland Impacts\Drawings\B-4931.prm.tsh.dgn
Elizabeth Sheldon

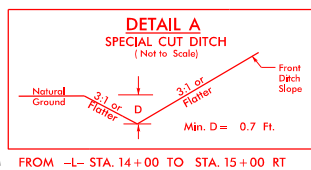
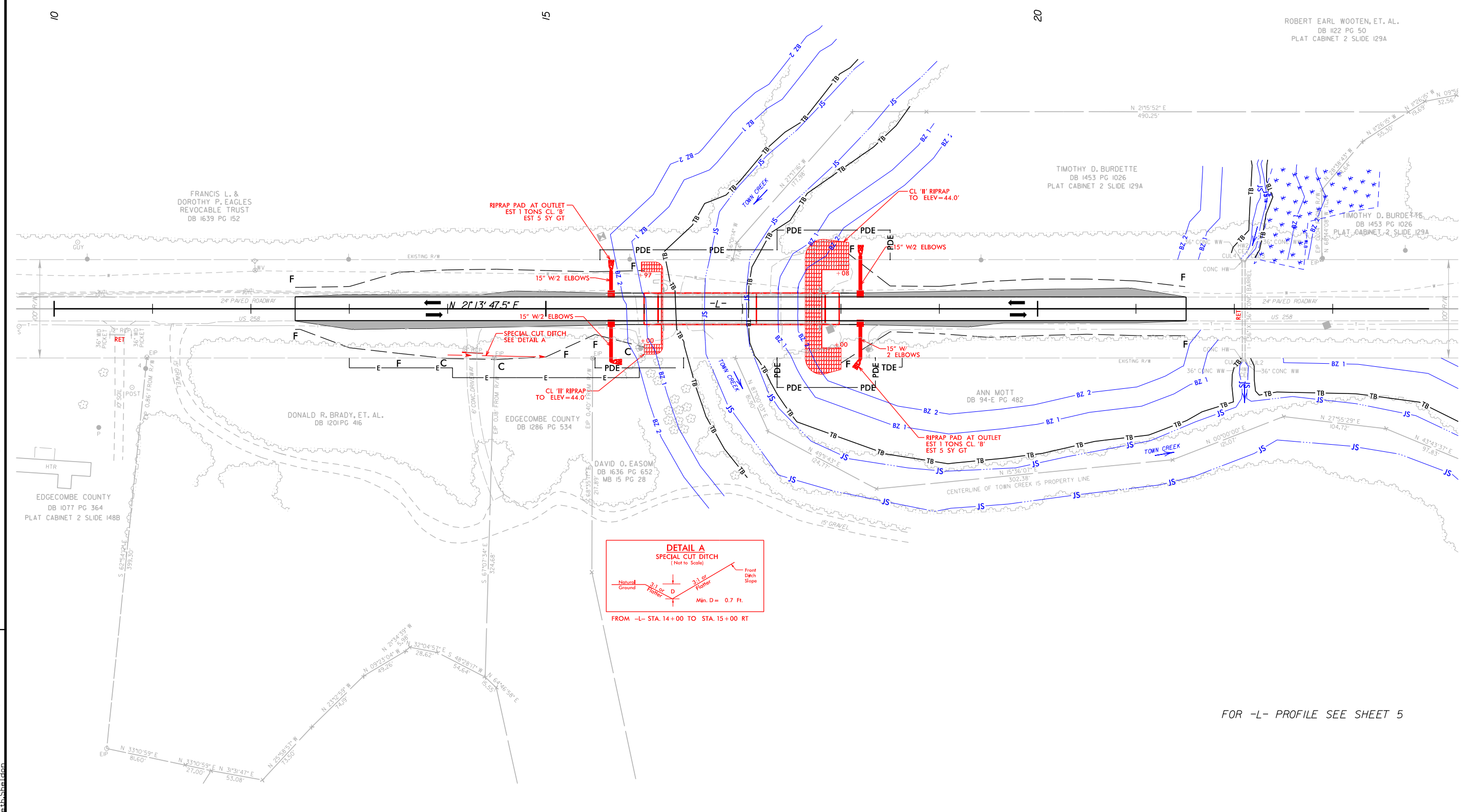
8/17/99
 REVISIONS
 8/19/2008
 M:\2008\251801945.19 B-4931\Hydro\Permits\PERMITS_Environmental\Westland_Impacts\Drawings\B-4931_perm_psh.dgn
 Elizabeth Sheldon

**PERMIT DRAWING
SHEET 2 OF 5**



PROJECT REFERENCE NO. <i>B-4931</i>	SHEET NO. <i>PRM-2</i>
R/W SHEET NO. 4	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION </div>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

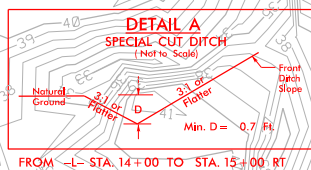
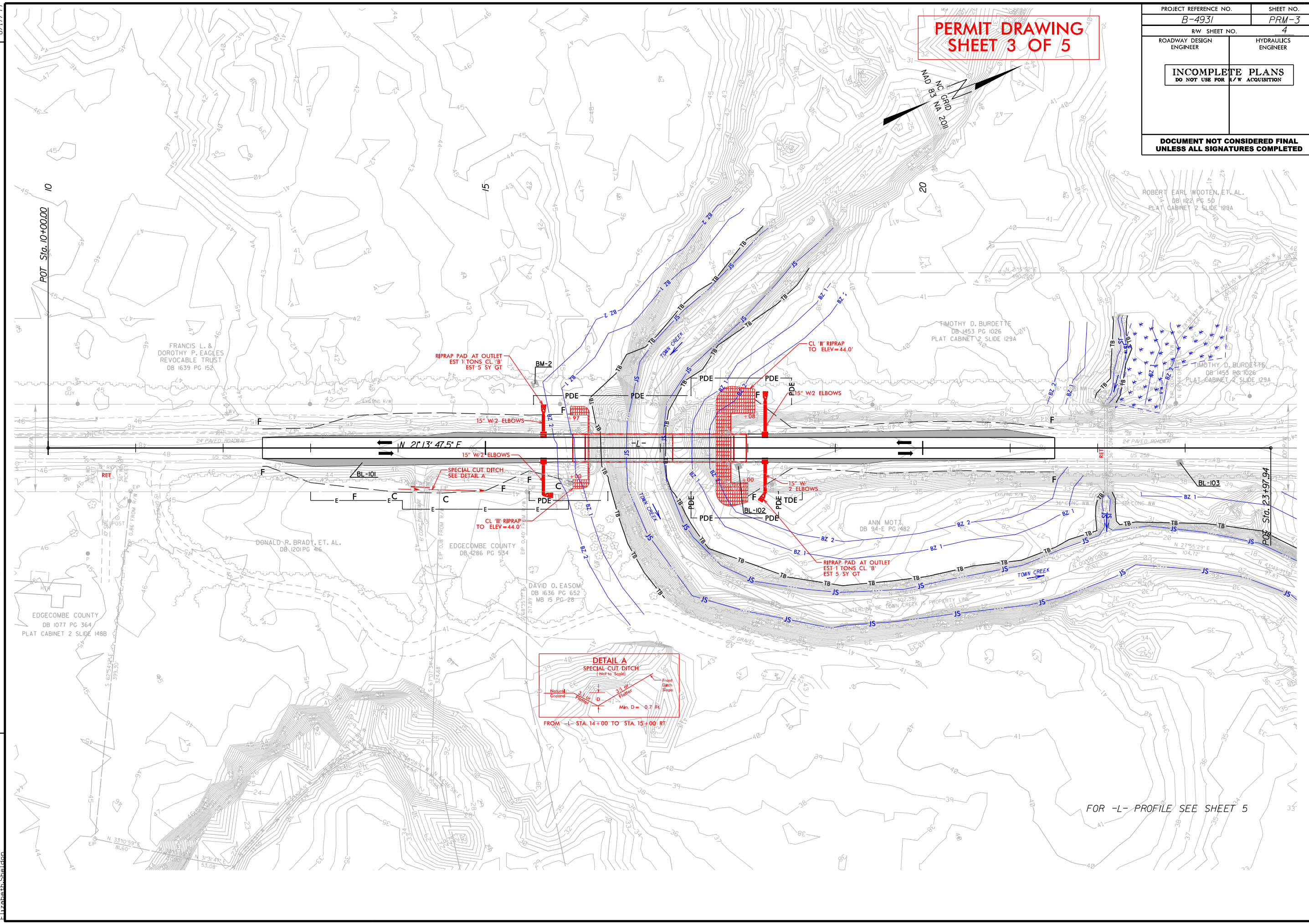
ROBERT EARL WOOTEN, ET. AL.
 DB 1122 PG 50
 PLAT CABINET 2 SLIDE 129A



FOR -L- PROFILE SEE SHEET 5

PROJECT REFERENCE NO. B-4931	SHEET NO. PRM-3
R/W SHEET NO. 4	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 3 OF 5



FOR -L- PROFILE SEE SHEET 5

REVISIONS

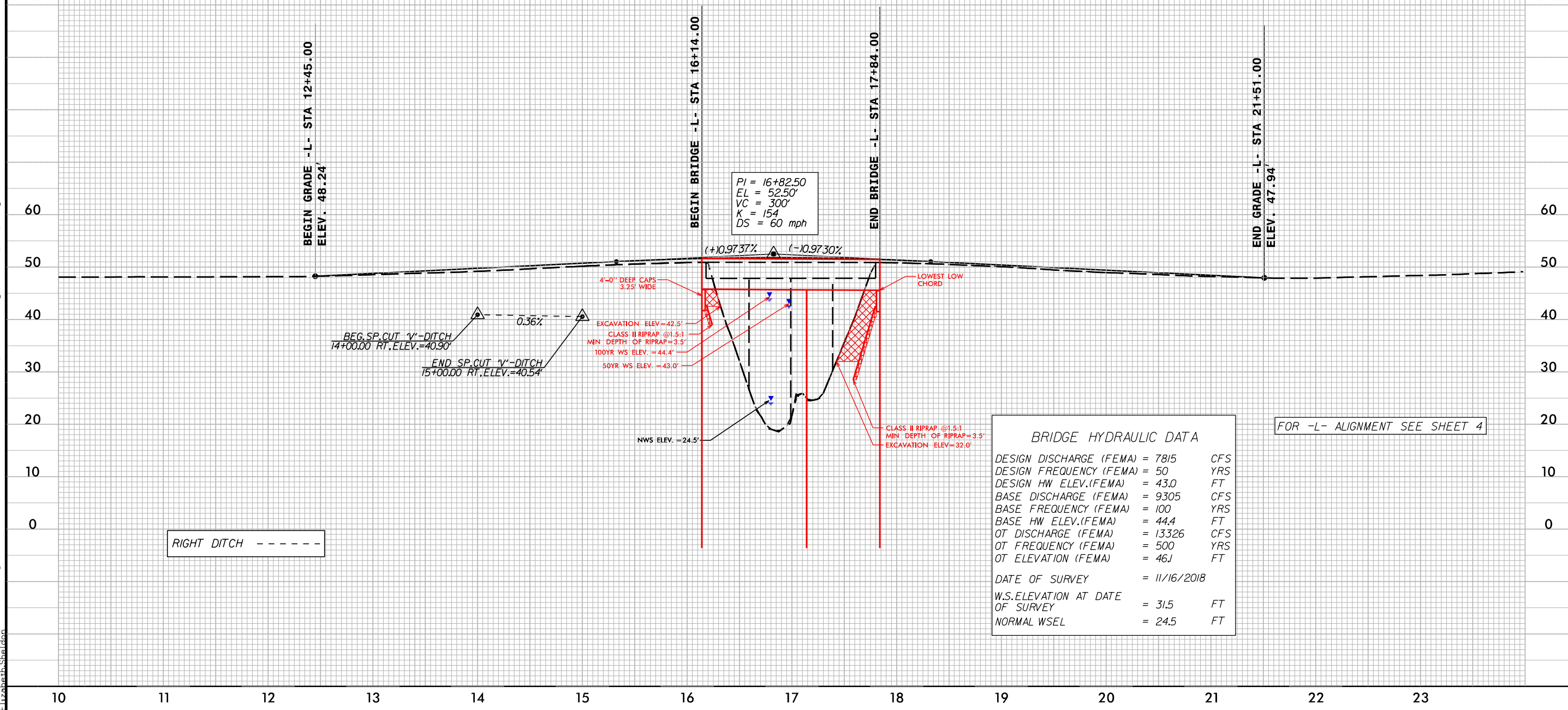
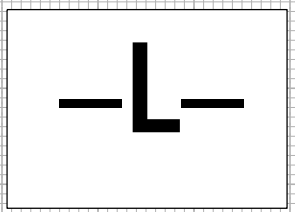
8/17/99
 P:\19\208\251801945.19 B-4931\Hydraulics\PERMITS_Environmental\Westland_Impacts\Drawings\B-4931-prm.psh.con.dgn
 Elizabeth Sheldon

5/14/99
 9/19/2018
 B:\1928\251801945.19 B-4931\Hydraulics\PERMITS\Environmental\Wetland_Impacts\Drawings\B-4931-prm-pfl.dgn
 Elizabeth Sheldon

PROJECT REFERENCE NO. B-4931	SHEET NO. PRM-4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 4 OF 5

BM #2 - RR SPIKE IN 12" PINE
 -L- STA. 15+56.58, 73.41' LT
 EL = 45.85'



PI = 16+82.50
 EL = 52.50'
 VC = 300'
 K = 154
 DS = 60 mph

BEGIN GRADE -L- STA 12+45.00
 ELEV. 48.24'

BEGIN BRIDGE -L- STA 16+14.00

END BRIDGE -L- STA 17+84.00

END GRADE -L- STA 21+51.00
 ELEV. 47.94'

BEG. SP. CUT 1'-DITCH
 14+00.00 RT. ELEV.=40.90'
 0.36%
 END SP. CUT 1'-DITCH
 15+00.00 RT. ELEV.=40.54'

EXCAVATION ELEV.=42.5'
 CLASS II RIPRAP @1.5:1
 MIN. DEPTH OF RIPRAP=3.5'
 100YR WS ELEV. = 44.4'
 50YR WS ELEV. = 43.0'

NWS ELEV. = 24.5'

4-0" DEEP CAPS
 3.25' WIDE
 LOWEST LOW CHORD

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE (FEMA)	= 7815	CFS
DESIGN FREQUENCY (FEMA)	= 50	YRS
DESIGN HW ELEV.(FEMA)	= 43.0	FT
BASE DISCHARGE (FEMA)	= 9305	CFS
BASE FREQUENCY (FEMA)	= 100	YRS
BASE HW ELEV.(FEMA)	= 44.4	FT
OT DISCHARGE (FEMA)	= 13326	CFS
OT FREQUENCY (FEMA)	= 500	YRS
OT ELEVATION (FEMA)	= 46.1	FT
DATE OF SURVEY	= 11/16/2018	
W.S.ELEVATION AT DATE OF SURVEY	= 31.5	FT
NORMAL WSEL	= 24.5	FT

FOR -L- ALIGNMENT SEE SHEET 4

RIGHT DITCH - - - - -

