

# Project Submittal Interim Form



Updated September 4, 2020

*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.*

- Project Type: \***
- For the Record Only (Courtesy Copy)
  - New Project
  - Modification/New Project with Existing ID
  - More Information Response
  - Other Agency Comments
  - Pre-Application Submittal
  - Re-Issuance\Renewal Request
  - Stream or Buffer Appeal

**Pre-Filing Meeting Date Request was submitted on:**

4/5/2021

## Project Contact Information

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**Name:** Erin Cheely  
*Who is submitting the information?*

**Email Address: \*** ekcheely@ncdot.gov

## Project Information

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<b>Existing ID #: *</b>	<b>Existing Version: *</b>
20201506	1
<i>20170001 (no dashes)</i>	<i>1</i>

**Project Name: \*** B-4407 - Replacement of Bridge 70 on US 52 over Rocky River

**Is this a public transportation project? \***

- Yes
- No

**Is this a DOT project? \***

- Yes
- No

**Is the project located within a NC DCM Area of Environmental Concern (AEC)? \***

- Yes
- No
- Unknown

<b>TIP#:</b>	<b>WBS#:</b>
B-4407	38356.1.2
	<i>(Applies to DOT projects only)</i>

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**County (ies) \***

Anson

Stanly

**Please upload all files that need to be submitted.**

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

B-4407 Anson Stanly Reverification Attachment  
Package.pdf 6.57MB

[Only pdf or kmz files are accepted.](#)

**Describe the attachments or add comments:**

Reverification of this project is requested as the previously issued Nationwide Permits will expire and construction is not anticipated to be complete by the expiration.

The previously issued 401 Permit and Application Package are attached (at the time of the original permit application, this project fell under a non-notifying NW 13/33 on the 404 side). There have been no changes to design or impacts since the previously issued permits and the plans submitted with the original application package remain accurate and valid.

As of January 12, 2023, IPaC identifies Carolina heelsplitter, Atlantic Pigtoe, red-cockaded woodpecker, and Schweinitz's sunflower within the project area (IPaC resource list attached), and tricolored bat is listed as Proposed.

Red-cockaded woodpecker:  
No habitat exists for red-cockaded woodpecker within the project area.

Schweinitz's sunflower:  
Potential habitat that previously existed for Schweinitz's sunflower has since been cleared. No additional clearing will occur with this project.

Carolina heelsplitter:  
Based on USFWS guidance (dated 3/1/2022) since the project is outside of six-mile, Goose, Waxhaw, or Duck Creek drainages, surveys were not required, and Biological Conclusion was No Effect.\*

Atlantic pigtoe:  
Though the Atlantic pigtoe was not listed at the time, the NCDOT 2018 survey addressed this species and recommended a No Effect biological conclusion.\*

\*NCDOT survey protocols have been updated since the permitting of this project. The biological conclusion would now be "May Affect, Not Likely to Adversely Affect" (MANLAA) for both species of listed mussels due to the presence of suitable habitat, even though no species were found. NCDOT is adhering to Design Standards in Sensitive Watershed for this project for erosion control and water quality. Per conversation with USFWS on 1/23/23, MANLAA is the appropriate biological conclusion based on previous surveys. Due to the expiration date of the permits, expedited informal concurrence will need to be requested during permit renewal. A follow-up mussel survey will be conducted late-winter/spring of 2023, but is not required for concurrence.

There have been no changes to Archaeology and Historic Properties since the previously issued permits. The project was coordinated with the appropriate federally listed tribes prior to previous permit issuance, and the list of federally listed tribes has not changed for Anson or Stanly County.

NCDOT is hereby requesting reverification under RGP 50.

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

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online 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 online form.

**Signature: \***

A rectangular box containing a handwritten signature in black ink. The signature reads "Michael Turchy" in a cursive script.

**Submittal Date:**

# Permit Application



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

February 11, 2021

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

ATTN: Ms. Crystal Amschler  
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permits 13 and 33, and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge 70 on US 52 over Rocky River in Anson and Stanly Counties, Division 10, TIP No. B-4407, Debit \$570 from WBS 38356.1.2.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 70 on US 52 over Rocky River with a new bridge just east of the existing alignment. Traffic will utilize the existing bridge during construction.


As a result of replacing the existing bridge, there will be 10 linear feet of stream bank stabilization at the outlet of a new ditch, and 0.34 acre of temporary stream impacts from causeways and temporary pipes needed for removal of the existing bridge and construction of the new one.

Please see enclosed copies of the Pre-Construction Notification (PCN), which includes the following attachments: pre-filing notification documentation, bat survey memo, mussel survey memo, Catawba response letter, Stormwater Management Plan, and Permit Drawings. A Minimum Criteria Determination Checklist (MCDC) was completed in May 2018 and distributed shortly thereafter.

This project calls for a letting date of May 18, 2021 and a review date of March 30, 2021.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please contact Erin Cheely at [ekcheely@ncdot.gov](mailto:ekcheely@ncdot.gov) or (919) 707-6108.

Sincerely,

  
Philip S. Harris III, P.E., C.P.M.  
Environmental Analysis Unit Head

cc: NCDOT Permit Application Standard Distribution List

Mailing Address:  
NC DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL ANALYSIS UNIT  
1598 MAIL SERVICE CENTER  
RALEIGH NC 27699-1598

Telephone: (919) 707-6000  
Customer Service: 1-877-368-4968  
Website: [www.ncdot.gov](http://www.ncdot.gov)

Location:  
1000 BIRCH RIDGE DRIVE  
RALEIGH NC 27610



## Pre-Construction Notification (PCN) Form

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

October 26, 2020 Ver 3.3

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:\*

Anson

Stanly

#### Is this a NCDMS Project?\*

Yes  No

Click Yes, only if NCDMS is the applicant or co-applicant.

#### Is this project a public transportation project?\*

Yes  No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

#### Is this a NCDOT Project?\*

Yes  No

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

B-4407

#### WBS #\*

38356.1.2

(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)

#### Has this PCN previously been submitted?\*

Yes

No

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

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

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:

33 - Temporary Construction

Nationwide Permit (NWP) Number:

13 - Bank Stabilization

#### 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

## Pre-Filing Meeting Information

Before submitting this form please ensure you have submitted the Pre-Filing Meeting Request Form as we will not be able to accept your application without this important first step. The Pre-Filing Meeting Request Form is used in accordance with 40 C.F.R. Section 121.4(a) "At least 30 days prior to submitting a certification request, the project proponent shall request a pre-filing meeting with the certifying agency" and in accordance with 40 C.F.R. Section 121.5(b)(7), and (c)(5) all certification requests shall include documentation that a pre-filing meeting request was submitted to the certifying authority at least 30 days prior to submitting the certification request. Click [here](#) to read more information on when this form is needed prior to application submission or [here](#) to view the form.

ID#

Version

### Pre-filing Meeting or Request Date \*

9/28/2020

### Attach documentation of Pre-Filing Meeting Request here: \*

B-4407 401 Pre-Filing Notification (Mass 12 MLL Request) 2020-09-28.pdf

417.96KB

### 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: \*

ekcheely@ncdot.gov

### 1c. Primary Contact Phone: \*

(xxx)xxx-xxxx  
(919)707-6108

### 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: \*

NC Department of Transportation

### 2b. Deed book and page no.:

### 2c. Responsible party:

(for Corporations)

### 2d. Address \*

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699

State / Province / Region

NC

Country

US

2e. Telephone Number: \*

(xxx)xxx-xxxx

(919)707-6108

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: \*

B-4407: Replace Bridge 70 over Rocky River on US 52

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: \*

Norwood

### 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

Postal / Zip Code

State / Province / Region

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: \*

35.194103

ex: 34.208504

Longitude: \*

-80.113281

-77.796371

### 3. Surface Waters

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

Rocky River

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

C

[Surface Water Lookup](#)

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

Yadkin-PeeDee

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

03040105

[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: \*

Surrounding land use is primarily agricultural and forested with some residential areas.



**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:**

0.04

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

(intermittent and perennial)

1150

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

The purpose of the proposed project is to replace a deficient (sufficiency rating 49.12 out of 100) and functionally obsolete bridge.

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

This project is the replacement of Bridge 70 on US 52 over Rocky River. The replacement structure will be a five-span bridge approximately 525 feet long. It will be constructed parallel to and just east of the existing structure. The intersection of SR 1934 (Riverview Road) and US 52 will be shifted further to the east to tie in the realigned roadway. Traffic will be detoured on-site using the existing bridge during construction. 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-4407 Final Permit Drawings.pdf

1.04MB

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:**

Of the delineated resources, only Rocky River and 2 tribs are impacted by this project.

**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): Jan Gay, Heather Smith, and David Cooper

Agency/Consultant Company: Ecological Engineering

Other:

**5d1. Jurisdictional determination upload**

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

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  Streams-tributaries  Buffers  
 Open Waters  Pond Construction

### 3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact <sup>*</sup> (?)	3b. Impact type <sup>*</sup>	3c. Type of impact <sup>*</sup>	3d. S. name <sup>*</sup>	3e. Stream Type <sup>*</sup> (?)	3f. Type of Jurisdiction <sup>*</sup>	3g. S. width <sup>*</sup>	3h. Impact length <sup>*</sup>
S1	Causeway	Temporary	Workpad/Causeway	Rocky River	Perennial	Both	150 Average (feet)	30 (linear feet)
S2	Causeway	Temporary	Workpad/Causeway	Rocky River	Perennial	Both	150 Average (feet)	30 (linear feet)
S3	Temporary Pipe	Temporary	Dewatering	SF	Perennial	Both	10 Average (feet)	44 (linear feet)
S4	Causeway	Temporary	Workpad/Causeway	Rocky River	Perennial	Both	150 Average (feet)	30 (linear feet)
S5	Causeway	Temporary	Workpad/Causeway	Rocky River	Perennial	Both	150 Average (feet)	30 (linear feet)
S6	Bank Stabilization	Permanent	Bank Stabilization	Rocky River	Perennial	Both	150 Average (feet)	10 (linear feet)
S7	Temporary Pipe	Temporary	Dewatering	SH	Intermittent	Both	2 Average (feet)	40 (linear feet)

<sup>\*\*</sup> All Perennial or Intermittent streams must be verified by DWR or delegated local government.

**3i. Total jurisdictional ditch impact in square feet:**

0

**3i. Total permanent stream impacts:**

10

**3i. Total temporary stream impacts:**

204

**3i. Total stream and ditch impacts:**

214

**3j. Comments:**

The 30 linear feet of causeway impacts at sites 2 and 5 overlap with the causeway impacts at site 1 and 4, respectively, resulting in a total of 144 linear feet of overall temporary impacts (0.34 acre).

## E. Impact Justification and Mitigation

### 1. Avoidance and Minimization

**1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: <sup>\*</sup>**

The Sediment and Erosion Control Plan for B-4407 has been designed using Design Standards for Sensitive Watersheds (DSSW). The new bridge has fewer spans, and therefore fewer bents in the water. Rip Rap pads were used at pipe outlets throughout the project to reduce water velocities into wetlands and jurisdictional streams.

**1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: <sup>\*</sup>**

The existing bridge will be used to detour traffic on-site during construction. NCDOT will adhere to Best Management Practices for Construction and Maintenance Activities.

### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

**2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?**

Yes  No

**2b. If this project DOES NOT require Compensatory Mitigation, explain why:**

The NCDOT does not propose mitigation for the temporary and bank stabilization impacts associated with this project. These impacts do not require permanent fill in the stream bed, therefore, under Section 404 of the Clean Water Act, do not constitute Loss of Waters of the U.S., and are not subject to compensatory 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

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

**If no, explain why:**

No buffered resources within project area.

## 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](#)

B-4407 2018-05-30 MCDCD.pdf

1.57MB

FILE TYPE 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  N/A

### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? \*

Yes  No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \*

Yes  No

5d. Is another Federal agency involved? \*

Yes  No  Unknown

5e. Is this a DOT project located within Division's 1-8? \*

Yes  No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.? \*

Yes  No

5g. Does this project involve bridge maintenance or removal? \*

Yes  No

5g(1). If yes, have you inspected the bridge for signs of bat use such as staining, guano, bats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES, Appendix F, pages 3-7.

Yes  No

Link to the NLEB SLOPES document: [http://saw-reg.usace.army.mil/NLEB/1-30-17-signed\\_NLEB-SLOPES&apps.pdf](http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf)

If you answered "Yes" to 5g(1), did you discover any signs of bat use? \*

Yes  No  Unknown

\*\*\* If yes, please show the location of the bridge on the permit drawings/project plans.

**5h. Does this project involve the construction/installation of a wind turbine(s)?\***

Yes  No

**5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?**

Yes  No

If yes, please provide details to include type of percussive activity, purpose, duration, and specific location of this activity on the property.

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

File must be PDF

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

As of 7/17/20, the United States Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) list five protected species for Anson County and two protected species for Stanly County. There is no habitat present within the project area for red-cockaded woodpecker, Atlantic sturgeon, or shortnose sturgeon (per Fritz Rohde from NOAA, all records of sturgeon in Anson County are limited to the mainstem of the PeeDee River). Habitat is present for Schweinitz's sunflower, however surveys of all potential habitat in the project area were conducted in August 2016 and October 2019, and no individuals of this species were observed.

The bridge was surveyed for potential habitat for northern long-eared bat in July 2019. While roosting crevices were present on the structure, no evidence of bats was observed.

Habitat is present for Carolina heelsplitter, and while none were found in a 2018 survey, the presence of habitat and other mussel species in the area result in a biological conclusion of May Affect, Not Likely to Affect.

Documentation of the bat and mussel surveys are attached to this memo.

**Consultation Documentation Upload**

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

B-4407 SLOPES Memo.pdf 837.17KB

B-4407 Mussel Survey Report.pdf 367.24KB

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? \***

MCDC and Tribal Coordination

**7c. Historic or Prehistoric Information Upload**

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

B-4407 Catawba Response 2020-193-64.pdf 610.91KB

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:**

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

FEMA Maps

## Miscellaneous



**Comments**

Tree clearing acreage is 0.326 acre.

Miscellaneous attachments not previously requested.

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

B-4407 Cover Letter.pdf

190.94KB

File must be PDF or KMZ

## Signature



\*

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

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

**Full Name:**\*

Michael Anthony Turchy

**Signature**\*



Michael Turchy

**Date**

2/11/2021

## RE: Pre-Filing Notification for Raleigh Let Projects in the 12 MLL

Carpenter, Kristi <kristilynn.carpenter@ncdenr.gov>

Wed 10/21/2020 5:36 PM

**To:** Dagnino, Carla S <cdagnino@ncdot.gov>; Chapman, Amy <amy.chapman@ncdenr.gov>; Wanucha, Dave <dave.wanucha@ncdenr.gov>; Hood, Donna <donna.hood@ncdenr.gov>; Ridings, Rob <rob.ridings@ncdenr.gov>; Steenhuis, Joanne <joanne.steenhuis@ncdenr.gov>; Ward, Garcy <garcy.ward@ncdenr.gov>

**Cc:** Barrett, William A <wabarrett@ncdot.gov>; Cheely, Erin K <ekcheely@ncdot.gov>; Cashin, Gordon E <gcashin@ncdot.gov>; Rivenbark, Chris <crivenbark@ncdot.gov>; Dilday, Jason L <jldilday@ncdot.gov>; Hemphill, Jeffrey L <jhemphill@ncdot.gov>; Riffey, Deanna <driffey@ncdot.gov>; Turchy, Michael A <maturchy@ncdot.gov>; Murray, Christopher A <camurray@ncdot.gov>; Price, Gregory W <gwprice2@ncdot.gov>; Hining, Kevin J <kjhining@ncdot.gov>; Harris, Philip S <pharris@ncdot.gov>

 1 attachments (18 KB)

Pre Filing Notification List of Projects from 12 MLL Through Sept 21 to NCDWR (002).xlsx;

All,

Please see the attached spreadsheet which has added columns with the DWR project and version number for each project listed along a link to each project in Laserfiche.

All notifications are in our system with the original notification date of 9/28/2020.

Please utilize the added DWR information when sending the applications for the listed projects.

Please contact me if there are any questions/concerns.

Thanks,

Kristi Lynn Carpenter

---

**From:** Dagnino, Carla S <cdagnino@ncdot.gov>

**Sent:** Monday, September 28, 2020 12:09 PM

**To:** Chapman, Amy <amy.chapman@ncdenr.gov>; Carpenter, Kristi <kristilynn.carpenter@ncdenr.gov>; Wanucha, Dave <dave.wanucha@ncdenr.gov>; Hood, Donna <donna.hood@ncdenr.gov>; Ridings, Rob <rob.ridings@ncdenr.gov>; Steenhuis, Joanne <joanne.steenhuis@ncdenr.gov>; Ward, Garcy <garcy.ward@ncdenr.gov>

**Cc:** Barrett, William A <wabarrett@ncdot.gov>; Cheely, Erin K <ekcheely@ncdot.gov>; Cashin, Gordon E <gcashin@ncdot.gov>; Rivenbark, Chris <crivenbark@ncdot.gov>; Dilday, Jason L <jldilday@ncdot.gov>; Hemphill, Jeffrey L <jhemphill@ncdot.gov>; Riffey, Deanna <driffey@ncdot.gov>; Turchy, Michael A <maturchy@ncdot.gov>; Murray, Christopher A <camurray@ncdot.gov>; Price, Gregory W <gwprice2@ncdot.gov>; Hining, Kevin J <kjhining@ncdot.gov>; Harris, Philip S <pharris@ncdot.gov>

**Subject:** Pre-Filing Notification for Raleigh Let Projects in the 12 MLL

All,

Please see the attached letter and request for the Pre-Filing Notification. We are not requesting a meeting for the attached projects and would like this letter and attachment to represent the notification in Laser Fiche.

If you have any questions about this, please contact me.

Thank you!

Carla

**Carla Dagnino**

Environmental Coordination and Permitting Group Leader

Environmental Analysis Unit

NC Department of Transportation

919 707 6110 Office

919 602 9452 Cell

[cdagnino@ncdot.gov](mailto:cdagnino@ncdot.gov)

1598 Mail Service Center

Raleigh, NC 27699 -1598

1000 Birch Ridge Drive

Raleigh, NC 27610

**Projects Potentially Requiring Notification per New 401 EPA Rule  
12 Month Let List SEPT 2020 - SEPT 2021 (from 36 Month Let List)**

DWR Rep	NCDOT Contact	Let Date	TIP	Let Type	Div	County	Project Description	Type of Previous DWR Correspondence	DWR #	Version #	Received Laserfiche Link
Wanucha	Bill Barrett	09/21/2021	B-5728	Raleigh Letting	7	Alamance	REPLACE BRIDGE 112 OVER REEDY FORK CREEK IN OSSIPEE ON NC 87	No Files found in Laserfiche	20201505	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326036&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326036&amp;dbid=0&amp;repo=WaterResources</a>
Hood	Erin Cheely	05/18/2021	B-4407	Raleigh Letting	10	Anson, Stanly	BRIDGE 70 OVER ROCKY RIVER ON US 52	No Files found in Laserfiche	20201506	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326038&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326038&amp;dbid=0&amp;repo=WaterResources</a>
Hood	Erin Cheely	03/16/2021	B-5818	Raleigh Letting	10	Anson	REPLACE BRIDGE 11 OVER DEADFALL CREEK ON NC 109	No Files found in Laserfiche	20201507	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326055&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326055&amp;dbid=0&amp;repo=WaterResources</a>
Hood	Bill Barrett	07/20/2021	BR-0107	Raleigh Letting	12	Iredell	SR 1577 BRIDGE 131 REPLACE BRIDGE 131 OVER TO SNOW CREEK.	No Files found in Laserfiche	20201508	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326056&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326056&amp;dbid=0&amp;repo=WaterResources</a>
Hood	Rail Division	08/17/2021	P-5705A	Raleigh Letting	10	Mecklenburg	CHARLOTTE WYE CONNECTION - RAIL	No Files found in Laserfiche	20181692	2	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326025&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326025&amp;dbid=0&amp;repo=WaterResources</a>
Ridings	Chris Murray	02/16/2021	B-5318	DDRL	5	Wake	REPLACE BRIDGE 910126 OVER SMITHS CREEK SR 2044 (LIGON MILLROAD) IN WAKE FOREST	Laserfiche Files: Scoping Letter	20201509	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326057&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326057&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Gordon Cashin	07/20/2021	B-5624	Raleigh Letting	3	Brunswick	BRIDGE 57 OVER JUNIPER CREEK ON NC 211	Laserfiche Files: P/JD Package	20201510	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326058&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326058&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Gordon Cashin	07/20/2021	B-5642	Raleigh Letting	3	Brunswick	BRIDGE 65 OVER HOOD CREEK ON NC 87	No Files found in Laserfiche	20201511	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326059&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326059&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Chris Rivenbark	05/18/2021	BR-0017	Raleigh Letting	3	Duplin	BRIDGE 300012 ON NC 11 OVER LITTLE ROCKFISH CREEK	Laserfiche Files: P/JD Package	20201512	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326060&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326060&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Greg Price	07/20/2021	I-5878	DDRL	6	Harnett	I-95 AT US 421 (EXIT 73) AND SR 1793 (POPE ROAD) (EXIT 72). IMPROVE INTERCHANGES. WIDEN TO EIGHT LANES. (COMB W/I-5883 & I-5866B).	No Files found in Laserfiche	20201513	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326061&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326061&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Greg Price	07/20/2021	I-5883	DDRL	6	Harnett	I-95 AT SR 1808 (JONESBORO ROAD) (EXIT 75) TO NORTH OF SR 1709 (HODGES CHAPEL ROAD) (EXIT 77). IMPROVE INTERCHANGES. WIDEN TO EIGHT LANES. (COMB W/I-5878 & I-5866B).	Laserfiche Files: Scoping Letter and JD Request	20201514	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326062&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326062&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Greg Price	07/20/2021	I-5986B	DDRL	6	Harnett, Johnston	I-95 FROM SR 1709 (HODGES CHAPEL ROAD - EXIT 77) TO I-40 (EXIT 81). WIDEN TO EIGHT LANES HARNETT/JONSTON COUNTIES. (COMB W/I-5878 & I-5883).	No Files found in Laserfiche	20190214	3	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326029&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326029&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Jason Dilday	04/20/2021	R-2561CA	DDRL	6	Columbus	NC 87 AT NC 11. CONSTRUCT INTERCHANGE.	Laserfiche Files: P/JD Package	20201515	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326063&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326063&amp;dbid=0&amp;repo=WaterResources</a>
Steenhuis	Greg Price	04/20/2021	R-5797	DDRL	6	Columbus	US 74 AT SR 1506 (BOARDMAN ROAD)	Laserfiche Files: P/JD Package	20201516	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326064&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326064&amp;dbid=0&amp;repo=WaterResources</a>
Wanucha	Kevin Hining	07/20/2021	17BP.11.R.15	DDRL	11	Wilkes	BRIDGE 419 ON SR 1148 OVER NAKED CREEK.	No Files found in Laserfiche	20201517	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326065&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326065&amp;dbid=0&amp;repo=WaterResources</a>
Wanucha	Erin Cheely	06/15/2021	BR-0048	Raleigh Letting	11	Surry	BRIDGE 103 ON NC 268 OVER MITCHELL RIVER REPLACE BRIDGE.	Laserfiche Files: Start of Study Letter	20201518	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326066&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326066&amp;dbid=0&amp;repo=WaterResources</a>
Wanucha	Jeff Hemphill	07/20/2021	BR-0108	Raleigh Letting	11	Wilkes	SR 2418 BRIDGE 4 REPLACE BRIDGE 4 OVER LITTLE HUNTING CREEK.	No Files found in Laserfiche	20201519	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326067&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326067&amp;dbid=0&amp;repo=WaterResources</a>
Ward	Jason Dilday	09/21/2021	B-4926	DDRL	2	Lenoir	NEUSE RIVER - REPLACE BRIDGE NO. 20 AND 34 OVER NEUSE RIVER/OVERFLOW ON NC 55	Laserfiche Files: Previous NW 6	20181733	2	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326028&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326028&amp;dbid=0&amp;repo=WaterResources</a>
Ward	Deanna Riffey	09/21/2021	B-5614	Raleigh Letting	2	Beaufort	REPLACE BRIDGE 9 OVER BLOUNTS CREEK ON SR 1112	No Files found in Laserfiche	20201520	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326068&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326068&amp;dbid=0&amp;repo=WaterResources</a>
Ward	Deanna Riffey	05/18/2021	B-5619	Raleigh Letting	2	Lenoir	REPLACE BRIDGE 52 OVER NEUSE RIVER AND REPLACE BRIDGE 152 OVER NEUSE RIVER OVERFLOW ON SR 1389 (HARDY BRIDGE ROAD)	No Files found in Laserfiche	20201521	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326069&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326069&amp;dbid=0&amp;repo=WaterResources</a>
Ward	Deanna Riffey	09/21/2021	BR-0004	Raleigh Letting	2	Beaufort	BRIDGE 060066 ON US 264 OVER PUNGO RIVER	No Files found in Laserfiche	20201522	1	9/28/2020 <a href="https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326070&amp;dbid=0&amp;repo=WaterResources">https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326070&amp;dbid=0&amp;repo=WaterResources</a>



North Carolina Department of Transportation  
 Highway Stormwater Program  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

**WBS Element:** 38356.1.2      **TIP No.:** B-4407      **County(ies):** Stanly Anson      **Page** 1 **of** 3

**General Project Information**

<b>WBS Element:</b>	38356.1.2	<b>TIP Number:</b>	B-4407	<b>Project Type:</b>	Bridge Replacement	<b>Date:</b>	1/29/2021
<b>NCDOT Contact:</b>	Tierre Peterson		<b>Contractor / Designer:</b>	Jon Ford, PE			
	<b>Address:</b>	1000 BIRCH RIDGE DRIVE RALEIGH, NC 27610			<b>Address:</b>	1800E Associates Lane Charlotte, NC 28217	
	<b>Phone:</b>	919-707-6488			<b>Phone:</b>	704-357-0488	
	<b>Email:</b>	trpeterson@ncdot.gov			<b>Email:</b>		
<b>City/Town:</b>	Norwood/Wadesboro, NC			<b>County(ies):</b>	Stanly	Anson	
<b>River Basin(s):</b>	Yadkin-Pee Dee			<b>CAMA County?</b>	No	No	
<b>Wetlands within Project Limits?</b>	No						

**Project Description**

<b>Project Length (lin. miles or feet):</b>	0.55 Miles	<b>Surrounding Land Use:</b>	Undeveloped
	<b>Proposed Project</b>		<b>Existing Site</b>
<b>Project Built-Upon Area (ac.)</b>	2.3 ac.		2.0 ac.
<b>Typical Cross Section Description:</b>	2-lane undivided		2-lane undivided
<b>Annual Avg Daily Traffic (veh/hr/day):</b>	<b>Design/Future:</b> 4900	<b>Year:</b> 2040	<b>Existing:</b> 4100 <b>Year:</b> 2020
<b>General Project Narrative: (Description of Minimization of Water Quality Impacts)</b>	<p>B-4407 involves the replacement of the existing bridge 70 on US-52 over Rocky River and 0.65 miles of roadway improvements. The existing typical section is a 2-lane undivided facility consisting of 12-foot travel lanes. The proposed typical section retains the 2-lane facility with a new alignment to allow the construction of the new bridge while maintaining the existing. Jurisdictional features including wetlands and a crossing of Rocky River are present within project limits. The proposed roadway improvements will require ditch realignment and the addition of new drainage systems to convey runoff at the ends of the proposed bridge. Rip Rap pads were used at pipes outlets throughout the project to reduce water velocities into wetlands and jurisdictional streams. The Sediment and Erosion Control Plan for B-4407 has been designed using Design Standards for Sensitive Watersheds (DSSW) criteria for jurisdictional streams flowing into the Yadkin-Pee Dee. DSSW designation requires special procedures to be followed for construction activities within 50' of each designated stream. Post Construction Stormwater Program will be implemented throughout B-4407 to the maximum extent practical.</p>		

**Waterbody Information**

<b>Surface Water Body (1):</b>	SG - Rocky River		<b>NCDWR Stream Index No.:</b>	13-17		
<b>NCDWR Surface Water Classification for Water Body</b>	<b>Primary Classification:</b>	Class C				
	<b>Supplemental Classification:</b>	None				
<b>Other Stream Classification:</b>	None					
<b>Impairments:</b>	None					
<b>Aquatic T&amp;E Species?</b>	No	<b>Comments:</b>				
<b>NRTR Stream ID:</b>	SG		<b>Buffer Rules in Effect:</b>	N/A		
<b>Project Includes Bridge Spanning Water Body?</b>	Yes	<b>Deck Drains Discharge Over Buffer?</b>	No	<b>Dissipator Pads Provided in Buffer?</b>	N/A	
<b>Deck Drains Discharge Over Water Body?</b>	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)					





North Carolina Department of Transportation

Highway Stormwater Program  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 38356.1.2      TIP No.: B-4407      County(ies): Stanly Anson      Page 2 of 3

**Additional Waterbody Information**

Surface Water Body (2):	SF - UT to Rocky River		NCDWR Stream Index No.:	13-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C			
	Supplemental Classification:	None			
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SF		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(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)				
Surface Water Body (3):	SH - UT to Rocky River		NCDWR Stream Index No.:	13-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C			
	Supplemental Classification:	None			
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SH		Buffer Rules in Effect:		
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(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)				



North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN  
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 38356.1.2

TIP No.: B-4407

County(ies): Stanly Anson

Page 3 of 3

Swales

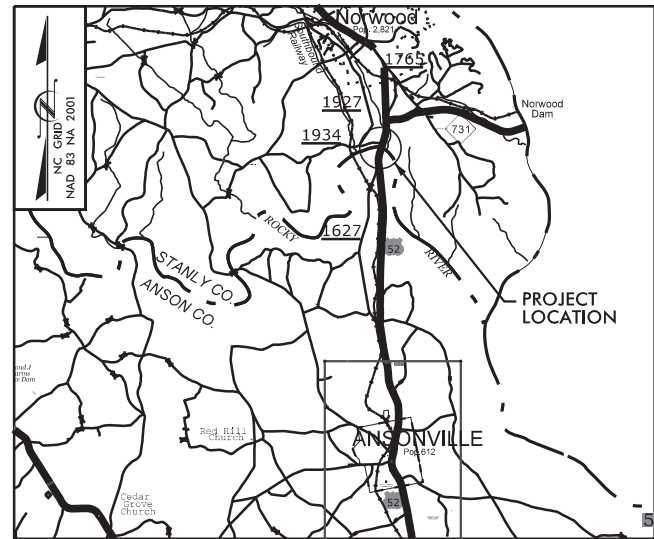
Sheet No.	Station & Coordinates (Road and Non Road Projects)	Surface Water Body	Base Width (ft)	Front Slope (H:1)	Back Slope (H:1)	Drainage Area (ac)	Recommended Treatm't Length (ft)	Actual Length (ft)	Longitudinal Slope (%)	Q2 (cfs)	V2 (fps)	Q10 (cfs)	V10 (fps)	Rock Checks Used	BMP Associated w/ Buffer Rules?
5	Sta. 12+00 -L1- Rt.	(1)SG - Rocky River	2.0	6.0	4.0	0.5	50	250	0.49%			1.3		No	No
	Sta. 14+50 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	4.0	1.0	100	550	1.49%			4.0		No	No
4	Sta. 20+00 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	5.0	1.3	130	150	2.77%			5.0		No	No
	Sta. 21+50 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	4.0	1.7	170	200	2.76%			6.9		No	No
5	Sta. 23+50 -L1- Rt.	(1)SG - Rocky River	2.0	2.0	2.0	3.1	310	707	4.10%			9.6		No	No
	Sta. 30+57 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	4.0	0.9	87	76	4.22%			2.8		No	No
6	Sta. 37+74 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	2.0	0.9	87	50	4.68%			2.8		No	No
	Sta. 38+50 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	4.0	0.5	47	350	4.45%			2.1		No	No
6	Sta. 39+00 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	6.0	0.5	47	250	3.99%			2.1		No	No
	Sta. 42+50 -L1- Rt.	(1)SG - Rocky River	0.0	6.0	6.0	0.2	19	100	0.71%			0.8		No	No
4	Sta. 13+50 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	4.0	0.5	47	150	0.43%			1.4		No	No
	Sta. 14+50 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	4.0	1.0	95	150	1.17%			2.5		No	No
4	Sta. 16+00 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	4.0	1.9	191	500	2.48%			4.7		No	No
	Sta. 17+50 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	4.0	3.0	298	250	5.81%			6.1		No	No
6	Sta. 40+00 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	4.0	1.9	186	150	5.42%			2.4		No	No
	Sta. 41+50 -L1- Lt.	(1)SG - Rocky River	0.0	6.0	5.0	1.4	141	100	4.63%			1.9		No	No
6	Sta. 43+00 -L1- Lt.	(1)SG - Rocky River													
	Sta. 44+00 -L1- Lt.	(1)SG - Rocky River													

Additional Comments

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**TIP PROJECT: B-4407**

See Sheet 1A For Index of Sheets



VICINITY MAP (N.T.S.)

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**ANSON /STANLY COUNTIES**

LOCATION: REPLACE BRIDGE NO. 030070 OVER  
ROCKY RIVER ON US-52

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4407	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38356.1.2	NA	PE	
38356.1.2	NA	RW & UTILITIES	
38356.1.2	NA	CONST.	



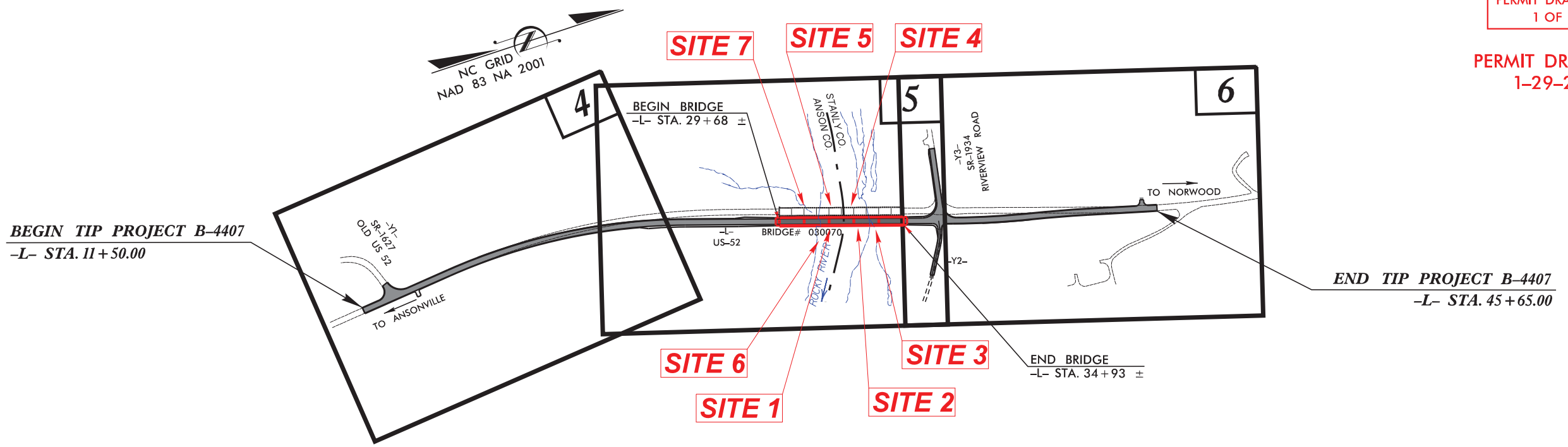
**V&M**  
Vaughn & Melton  
Consulting Engineers

Charlotte, North Carolina 704-557-0488  
Tri-Cities, Tennessee 423-467-8400  
Knoxville, Tennessee 865-546-8800  
Middlesboro, Kentucky 606-248-8400  
Spartanburg, South Carolina 864-574-4775

Asheville, North Carolina 828-253-2796

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**WETLAND AND SURFACE WATER IMPACTS PERMIT**



PERMIT DRAWINGS  
1 OF 6

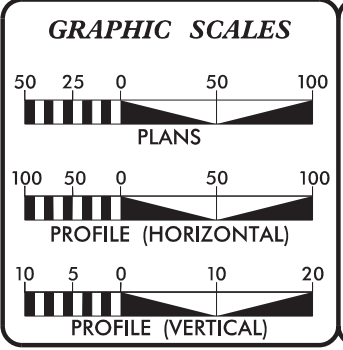
PERMIT DRAWINGS  
1-29-2021

DESIGN EXCEPTION REQUIRED FOR MAXIMUM VERTICAL GRADE -L- STA. 34 + 35.00 TO 43 + 75.00

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD.

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2015 = 3900  
ADT 2040 = 4900  
D = 60%  
K = 9%  
T = 22%  
\*TTST = 8% DUAL = 14%  
FUNCT. CLASS =  
PRINCIPAL ARTERIAL  
REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4407 = 0.548 MI  
LENGTH STRUCTURE TIP PROJECT B-4407 = 0.099 MI  
TOTAL LENGTH OF TIP PROJECT B-4407 = 0.647 MI

Prepared in the Office of:  
**VAUGHN & MELTON**  
1318-F PATTON AVE.  
ASHEVILLE NC, 28806  
FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
MAY 20, 2019

LETTING DATE:  
MAY 19, 2020

REECE SCHULER, PE, PLS  
PROJECT ENGINEER

JOHN LANSFORD, PE  
PROJECT DESIGN ENGINEER

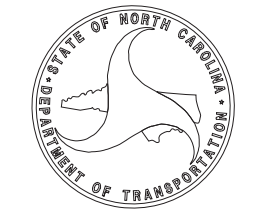
DAVID STUTTS, PE  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDN\$\$\$\$\$  
\$\$\$\$\$SERNAME\$\$\$\$\$

8/17/99

# WETLAND & STREAM IMPACTS

PERMIT DRAWING  
SHEET 2 OF 6

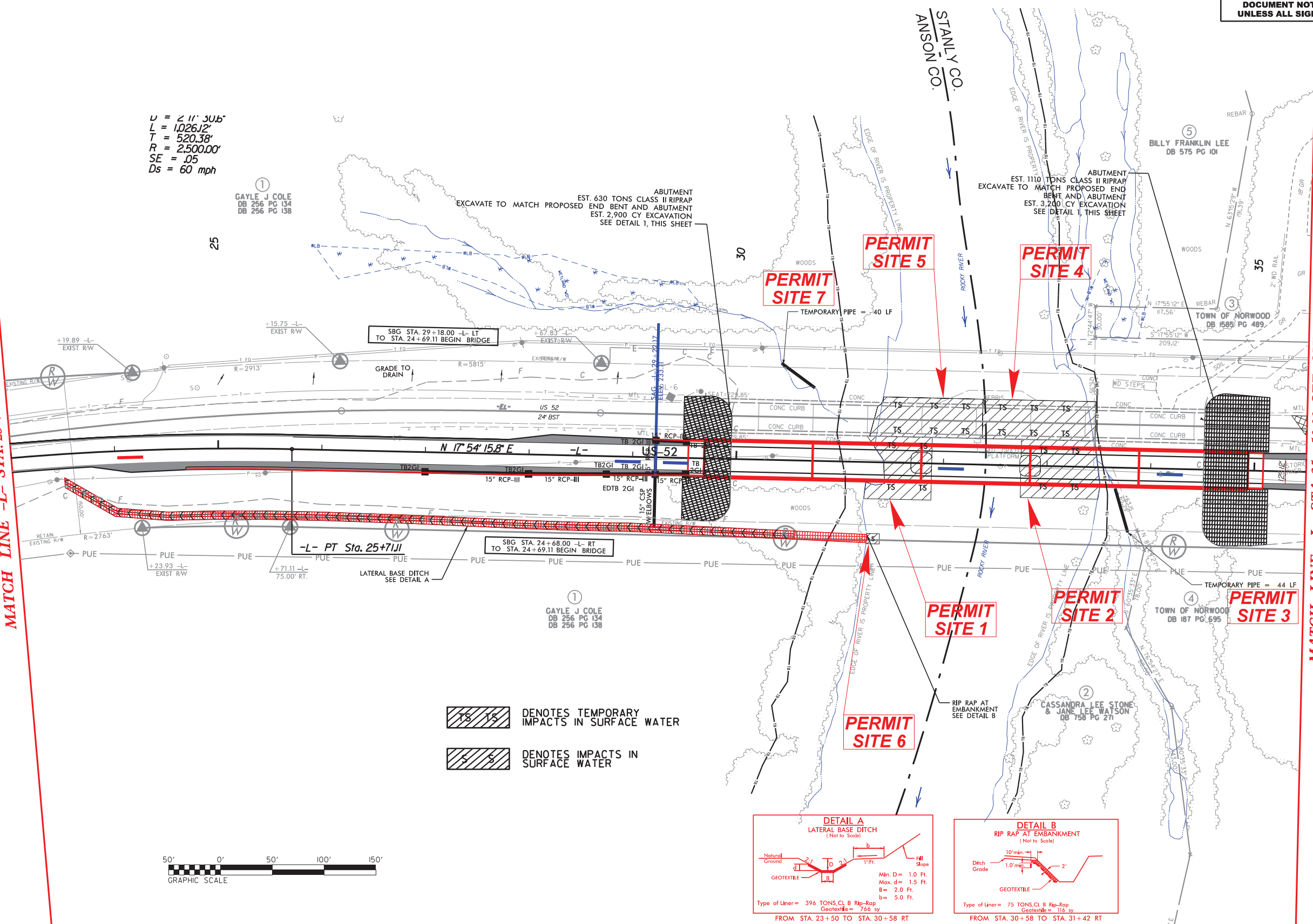
PROJECT REFERENCE NO. B-4407	SHEET NO. 2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



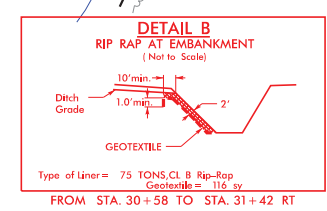
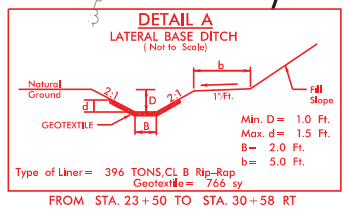
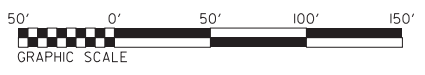
MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6

$V = 211' 30.6"$   
 $L = 1,026.12'$   
 $T = 520.38'$   
 $R = 2,500.00'$   
 $SE = .05$   
 $Ds = 60 \text{ mph}$



DENOTES TEMPORARY IMPACTS IN SURFACE WATER  
 DENOTES IMPACTS IN SURFACE WATER



CUSTOMER: STANLEY COUNTY, NC  
 PROJECT: US 52 BRIDGE  
 DRAWN: J. W. WATSON  
 CHECKED: J. W. WATSON  
 DATE: 8/17/99



8/17/99

# WETLAND & STREAM IMPACTS

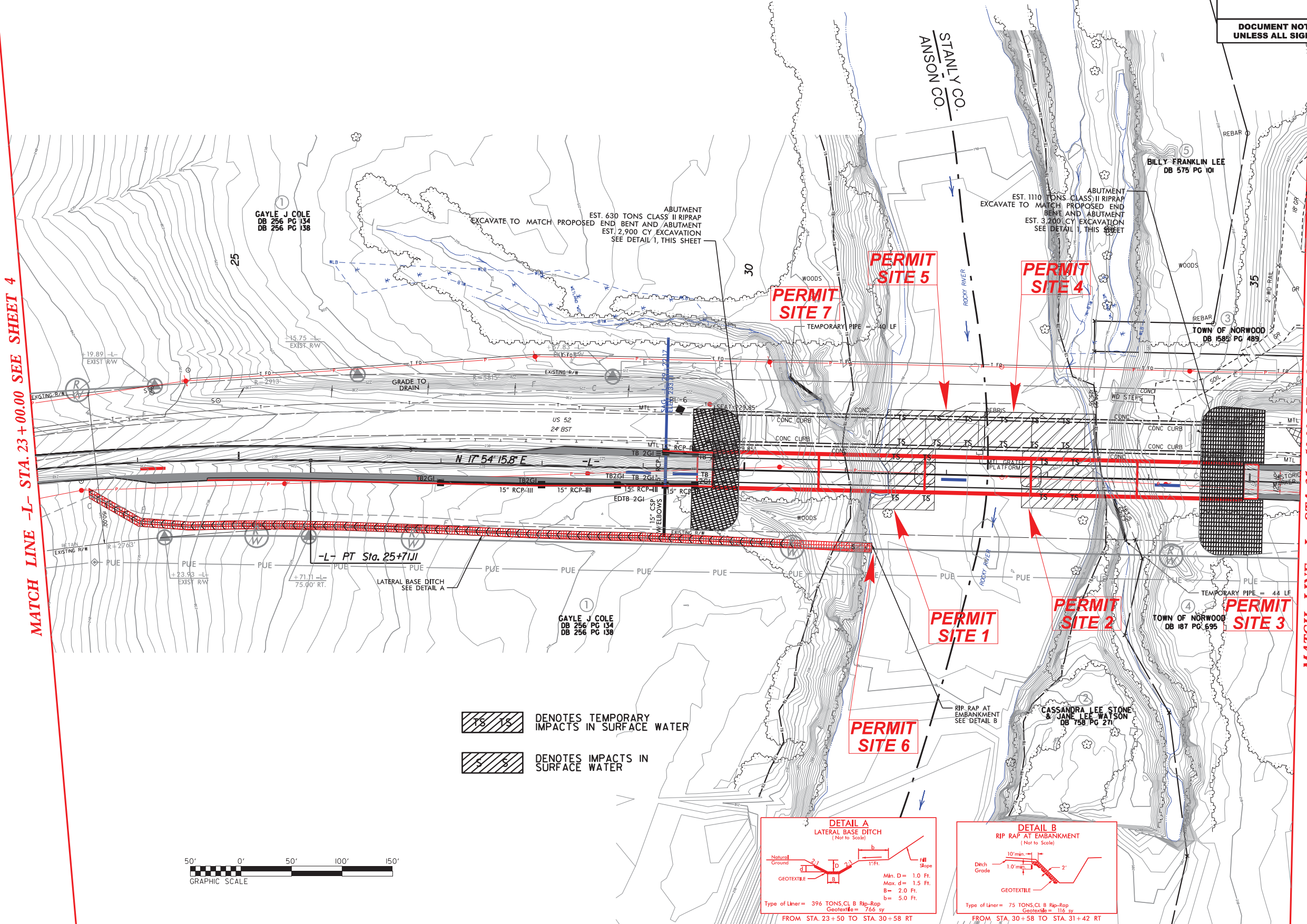
PERMIT DRAWING  
SHEET 3 OF 6

PROJECT REFERENCE NO. B-4407	SHEET NO. 2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

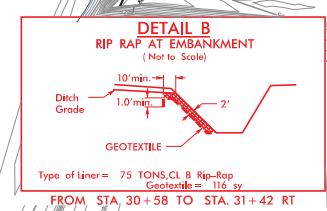
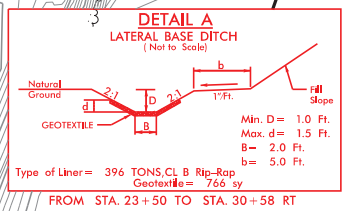


MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6



DENOTES TEMPORARY IMPACTS IN SURFACE WATER  
 DENOTES IMPACTS IN SURFACE WATER



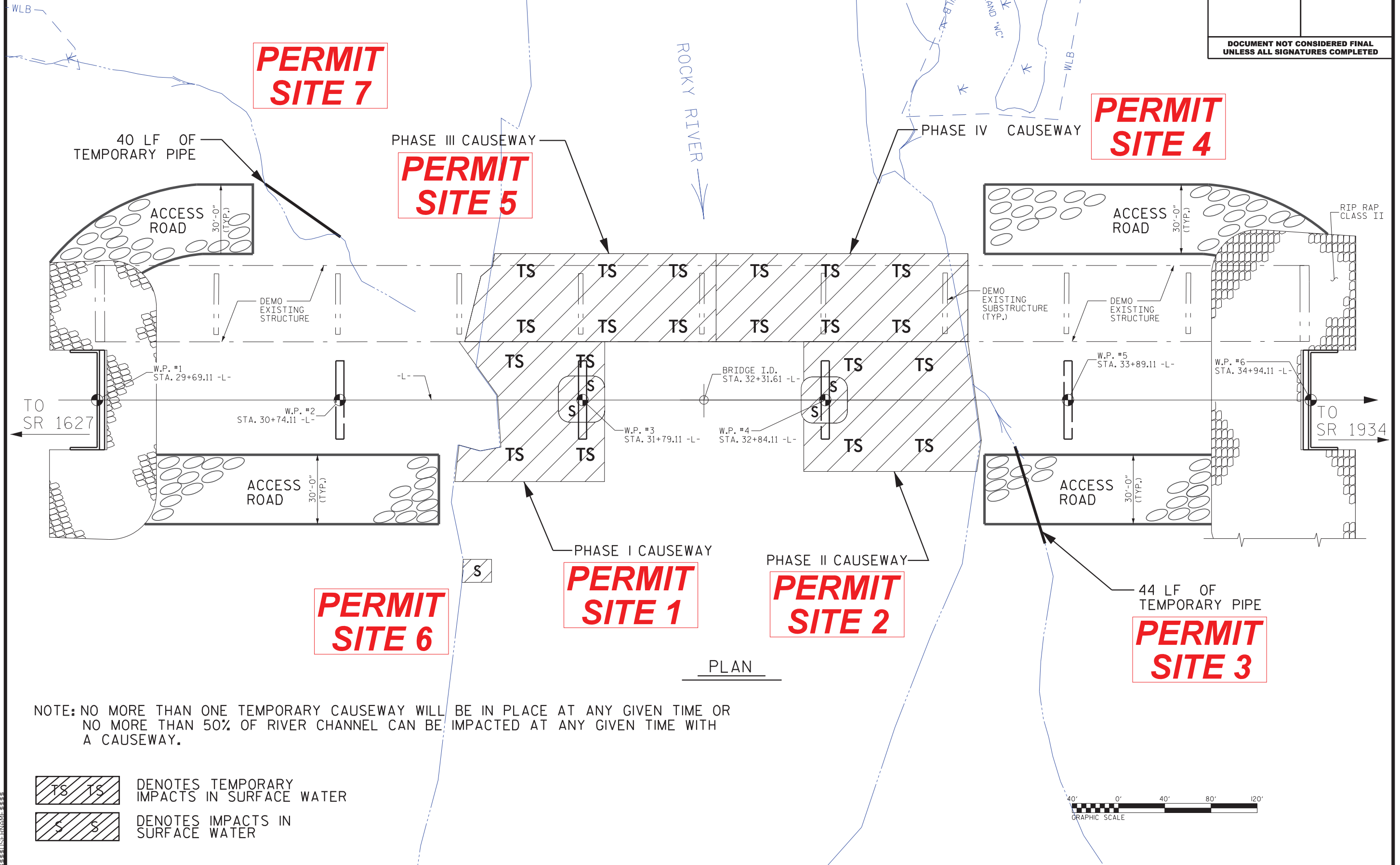
8/17/99

8/17/99

# WETLAND & STREAM IMPACTS CAUSEWAY PHASING

**PERMIT DRAWING  
SHEET 4 OF 6**

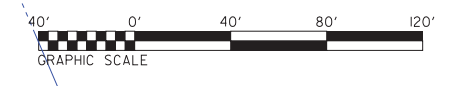
PROJECT REFERENCE NO. B-4407	SHEET NO. 2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE: NO MORE THAN ONE TEMPORARY CAUSEWAY WILL BE IN PLACE AT ANY GIVEN TIME OR NO MORE THAN 50% OF RIVER CHANNEL CAN BE IMPACTED AT ANY GIVEN TIME WITH A CAUSEWAY.

- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER

PLAN

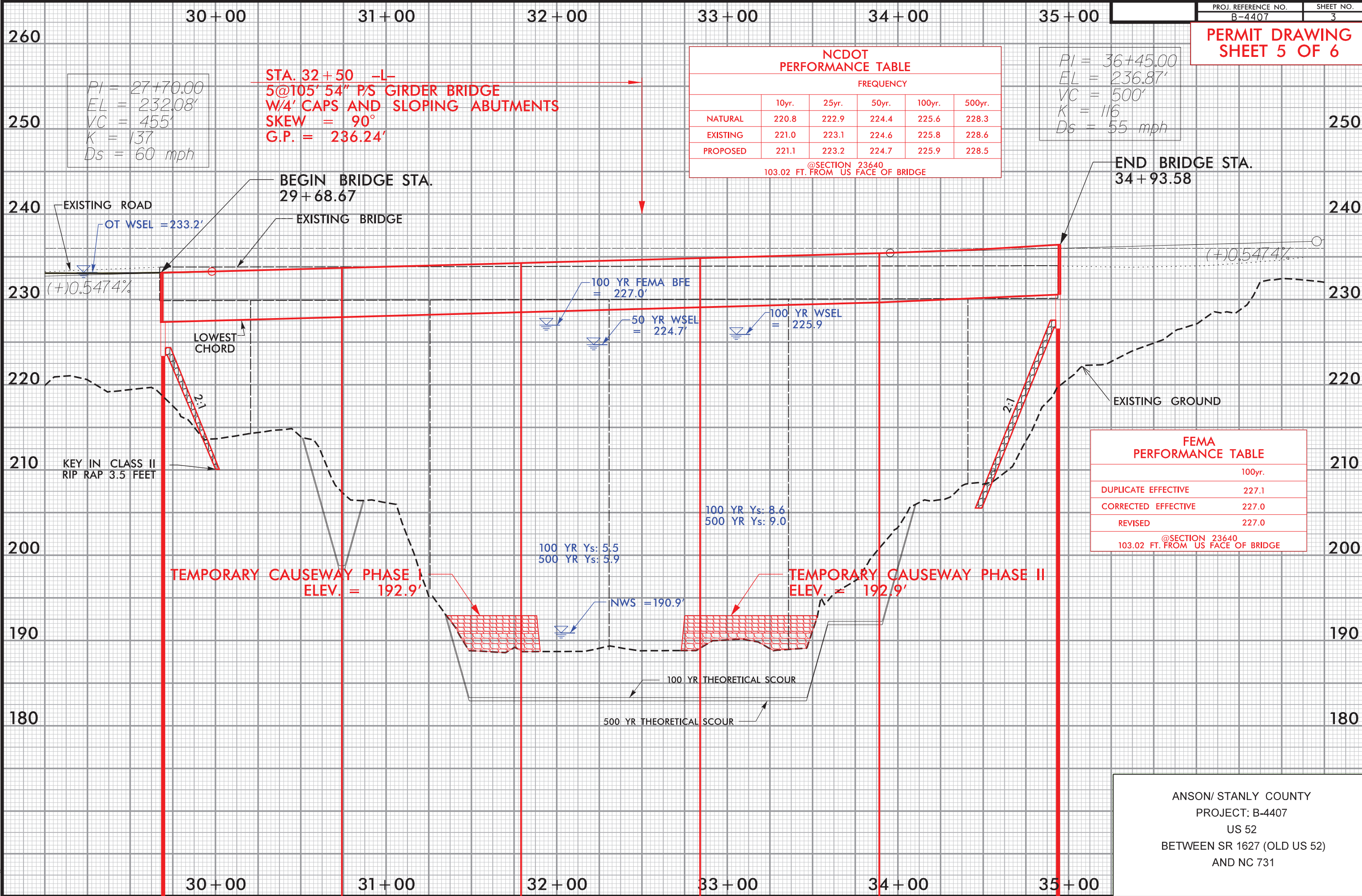


CUSTOMER'S PROPERTY



6/23/16

PERMIT DRAWING SHEET 5 OF 6



1/29/2016 4:43 AM  
K:\05-14407\Hyd.Permit.03.dgn  
User: jldaves

ANSON/STANLY COUNTY  
PROJECT: B-4407  
US 52  
BETWEEN SR 1627 (OLD US 52)  
AND NC 731

### WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 31+24 / 31+89 RT	Causeway						0.07		30		
2	-L- 32+75 / 33+50 RT	Causeway						0.09		*		
3	-L- 33+66 / 33+79 RT	Temporary Pipe						< 0.01		44		
4	-L- 32+37 / 33+46 LT	Causeway						0.10		30		
5	-L- 31+28 / 32+37 LT	Causeway						0.09		*		
6	-L- 30+89 / 31+28 RT	Ditch Outlet - Bank Stabilization						< 0.01		10		
7	-L- 30+42 / 30+74 RT	Temporary Pipe						< 0.01		40		
TOTALS*:								< 0.01	0.34	10	144	0

\*Rounded totals are sum of actual impacts

NOTES:

- \* The 30 LF of impacts from these causeways overlap with sites 1 and 4 respectively.
- Bent 2<.01 Ac of impact
- Bent 3<.01 Ac of impact

NC DEPARTMENT OF TRANSPORTATION		
DIVISION OF HIGHWAYS		
1/29/2021		
STANLY/ANSON		
B-4407		
38356.1.2		
SHEET	6	OF 6



# **Freshwater Mussel Survey Report**

**Bridge No. 70 over Rocky River**

**on US-52**

**TIP # B-4407**

**WBS: 38356.1.2**

**Anson/Stanly County Line, North Carolina**



**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**Environmental Analysis Unit**

**NCDOT Contact: Matt Haney**  
**919-707-6122; mmhaney@ncdot.gov**

**October 2018**

## FRESHWATER MUSSEL SURVEY REPORT

**PROJECT:** Protected species survey report for the Carolina Heelsplitter (*Lasmigona decorata*), Atlantic Pigtoe (*Fusconaia masoni*), and Brook Floater (*Alasmidonta varicosa*) for the proposed US-52 bridge replacement over Rocky River within the Yadkin-Pee Dee River Basin on the Anson/Stanly county line. WBS: 38356.1.1, TIP No. B-4407.

**REPORT BIOLOGISTS:** Joseph D. Alderman and John M. Alderman

The North Carolina Department of Transportation proposes to replace Bridge No. 70 over Rocky River (Stream Index No. 13-17) on the Anson/Stanly county line (Figures 1 and 2).

The Carolina Heelsplitter is federally listed Endangered by the United States Fish & Wildlife Service (USFWS). The Carolina Heelsplitter exists from the Savannah River Basin in South Carolina to the Pee Dee River Basin in North Carolina. The USFWS documents Union County as part of the current Carolina Heelsplitter range.

The Carolina Heelsplitter's preferred habitats include low to higher gradient, stable banked streams with relatively silt free substrates. Coarser substrates, including cobble, boulder, and bedrock, are usually present within an occupied stream reach. The best populations have been found in higher water quality, well-oxygenated streams. In general, woodland dominates the landscape. Carolina Heelsplitter records exist in first order streams up to main channels of large rivers.

The Atlantic Pigtoe is a federal At-Risk Species (USFWS) and is a native Southeast Atlantic Slope freshwater mussel species. The USFWS may list this species as endangered or threatened during 2018. The Atlantic Pigtoe has records from the Altamaha River Basin in Georgia to the James River Basin in Virginia. The USFWS documents Union County as part of the current Atlantic Pigtoe range.

The Atlantic Pigtoe normally requires clean sand and pea gravel substrates and circumneutral pH water. The highest densities recorded for this species existed in silt free, unconsolidated coarse sand and pea gravel within "run" stream reaches. The best populations have been documented from North Carolina Division of Water Resources Outstanding Resource Waters (ORW) stream reaches or within streams potentially suitable for such designations.

The Brook Floater is a federal At-Risk Species (USFWS) and is a native Atlantic Slope freshwater mussel species. The USFWS may list this species as endangered or threatened during 2018. The Brook Floater has records from Canada to the Savannah River Basin in Georgia and South Carolina. The USFWS documents Anson County as part of the current Brook Floater range.

The Brook Floater normally requires clean sand and pea gravel substrates and circumneutral pH water. The highest densities recorded for this species existed in silt free, unconsolidated coarse sand and pea gravel within “run” stream reaches.

Prior to conducting in-stream surveys, reviews of the April 2018 North Carolina Natural Heritage Program (NCNHP), NC Museum of Natural Sciences, Alderman Environmental Services, Inc. (AES), Philadelphia Academy of Natural Sciences (ANSP), and Ohio State University Museum of Biodiversity databases were conducted to determine if there were any records of rare mussels within the proposed project study area or receiving waters. This review indicated that the closest occurrence of the Carolina Heelsplitter (documented in 2016) is within Goose Creek, a tributary of the Rocky River in Union County (NCNHP). This occurrence is >44 stream miles upstream from the project site. Records from 1998 for the Atlantic Pigtoe exist in Goose Creek in Union County, which is >44 stream miles upstream from the project area (NCNHP). Ohio State University records for the Brook Floater (listed as *A. robusta* within their database) from 1968 exist within the Rocky River >22 stream miles upstream from the project area. Since past field records for Brook Floater and Carolina Elktoe (*A. robusta*) have often been confused, we have lumped all records for these species under Brook Floater for this report.

The North Carolina Department of Environmental Quality (NCDEQ) records numerous NPDES permits within the Rocky River Subbasin. The closest discharge point is just downstream from the NC-52 bridge crossing. This discharge is a minor point source for the Town of Norwood. The lower Rocky River is a Class C stream, and is on the NCDEQ 303(d) list of impaired streams, due to excessive copper and turbidity. The Pee Dee River is the next major confluence with Rocky River, which is over four stream miles downstream from the project area. No dams exist within the Rocky River between the project site and Goose Creek, a known Carolina Heelsplitter and Atlantic Pigtoe stream.

Alderman Environmental Services, Inc. biologists Joseph D. Alderman (USFWS Permit No. TE28597A-1), John M. Alderman (North Carolina Wildlife Resources Commission Permit No. 18-ES00009 and USFWS Permit No. TE065756-3), Logan Williams, and John Fridell (both designated sub-permittees on John Alderman’s NCWRC permit) completed a mussel survey at the site on 19 June 2018 within 100+ meters upstream and 400+ meters downstream from the project stream crossing (Figures 1 and 2). Using visual and tactile searches, 5.5 person-hours were required to complete the survey within this relatively rural area of Anson and Stanly counties. Stream widths were up to 65 meters, and bank height was up to six meters. The river was low and slightly turbid. The surveyed reach canopy was mostly open, and wooded buffers were wide. Silt and sand were the dominant substrates with clay, gravel, pebble, boulder, organics, and mud present. Banks were undercut and eroded in places. There was no evidence of beavers in the surveyed reach.

Four species of freshwater mussels were documented: Eastern Elliptio (*Elliptio complanata*) – 6 live, Creeper (*Strophitus undulatus*) – 1 shell, Carolina Lance (*Elliptio angustata*) – 3 live, and Eastern Creekshell (*Villosa delumbis*) – 1 live, gravid female.

*Elimia catenaria*, a freshwater snail, was observed. The Asian Clam (*Corbicula fluminea*) was present.

### **Biological Conclusion**

**The Creeper and Eastern Creekshell are close species associates of the Carolina Heelsplitter. Since these species are present within the project area and since there are recent records for the Carolina Heelsplitter within the Rocky River Subbasin, the biological conclusion is “May Affect, Not Likely to Adversely Affect” the Carolina Heelsplitter if adequate erosion and sedimentation control methods are employed during project activities.**

**Since the most recent Atlantic Pigtoe and Brook Floater records from the Rocky River Subbasin are 24 years old and Atlantic Pigtoe and Brook Floater habitat in the project area is limited, the biological conclusion is “No Effect” for these two species.**

### **References**

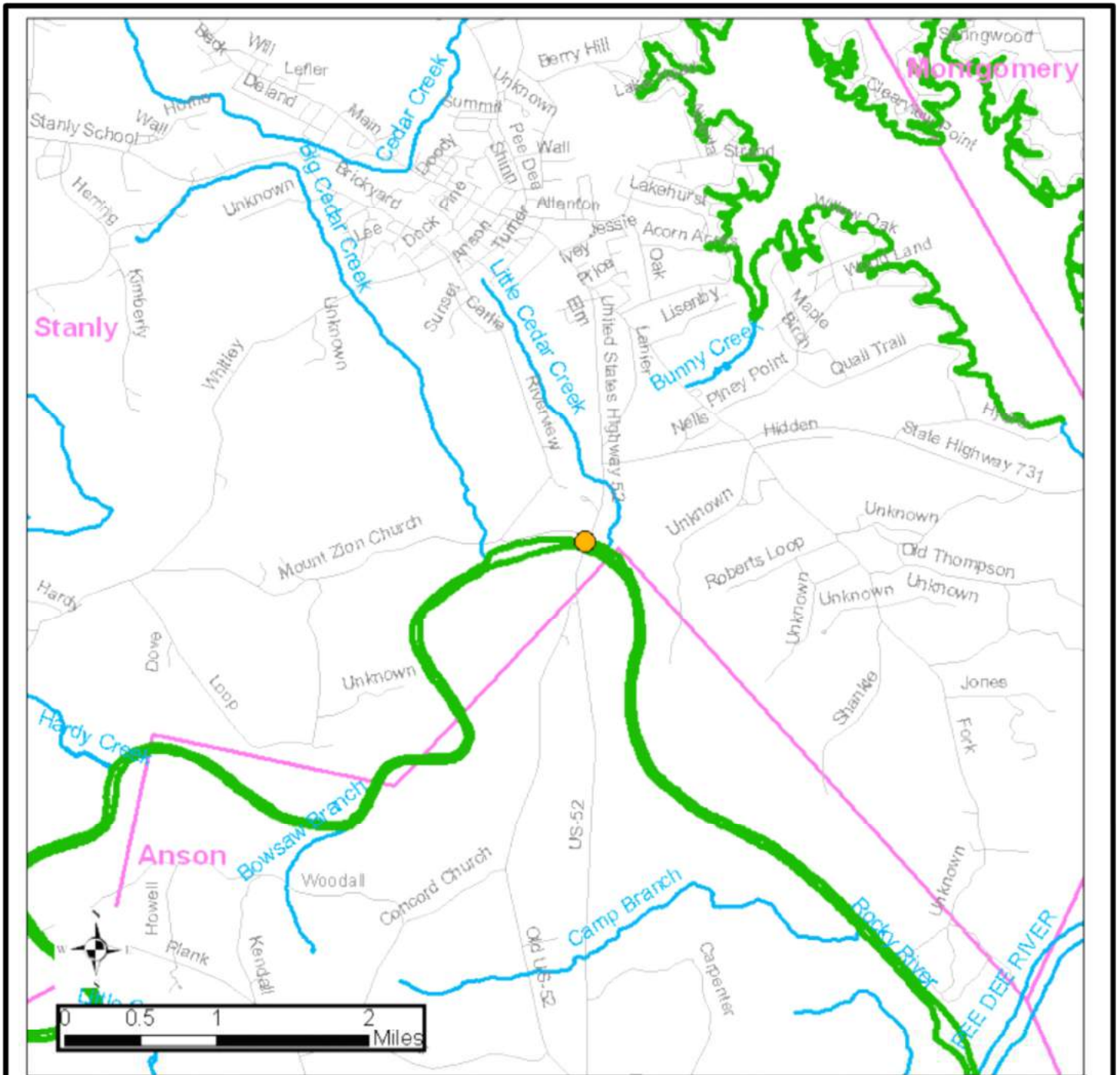
North Carolina Museum of Natural Sciences. 2017. October 2017 online database search.

North Carolina Natural Heritage Program. 2018. April 2018 Database.

North Carolina Department of Environmental Quality. 2016. Final 2016 Category 5 Assessments – 303(d) List.

Ohio State University Museum of Biodiversity. 2018 online database search.

Philadelphia Academy of Natural Sciences. 2015 online database search.



**Figure 1**  
**VICINITY MAP**  
 Anson/Stanly County Line, NC  
 Replace Bridge No. 70  
 on US-52 over Rocky River  
 Project B-4407 (WBS 38356.1.1)

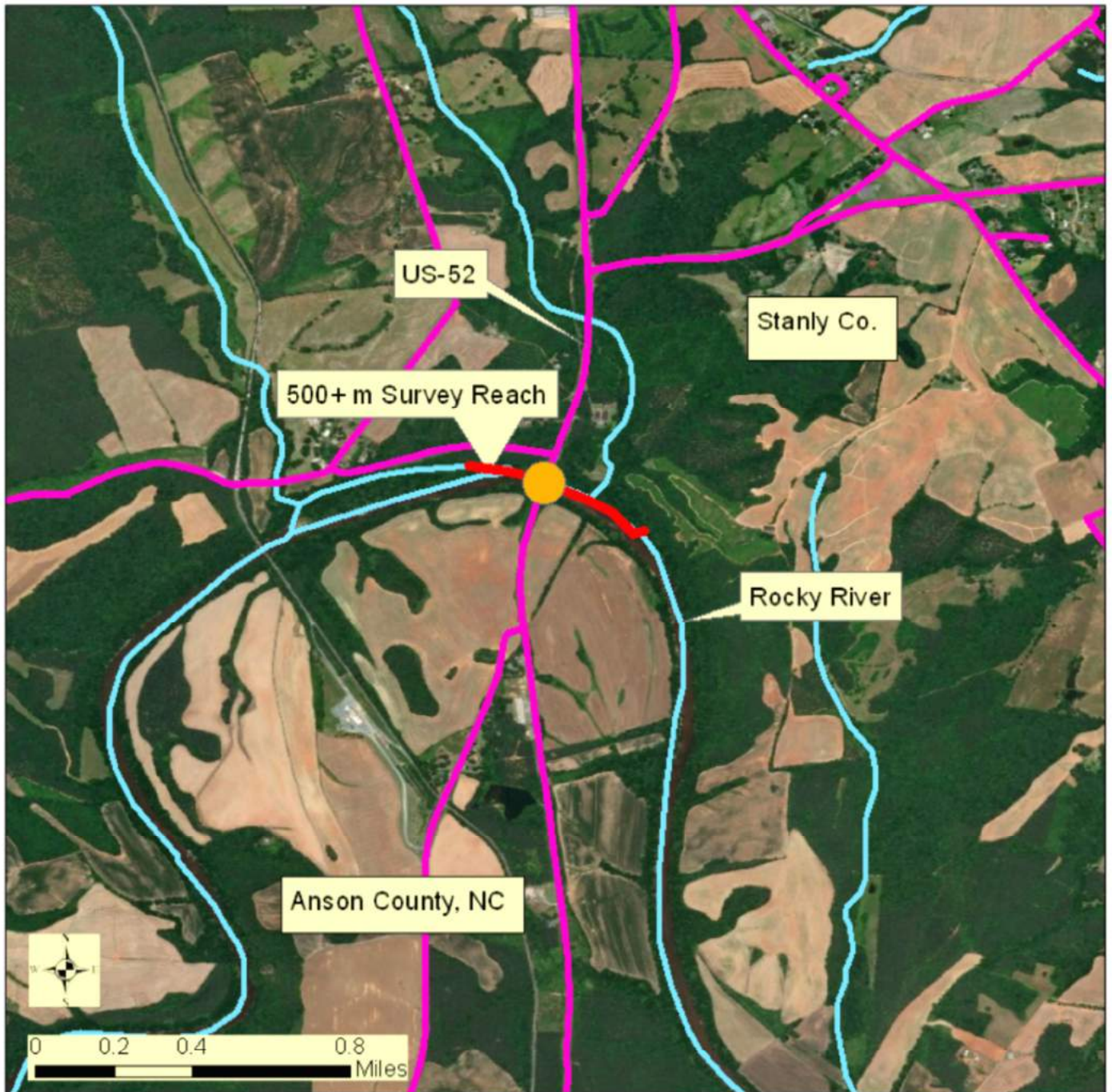
- Bridge No. 70
- 303(d) Streams
- Streams
- Roads



Date: 6/20/2018  
 By: JMA







**Figure 2**  
**SURVEY AREA MAP**  
 Anson/Stanly Co. Line, NC  
 Replace Bridge No. 70  
 on US-52  
 over Rocky River  
 Project B-4407 (WBS 38356.1.1)

- Roads
- Streams
- Bridge No. 70
- Survey Reach

Date: 6/20/2018 By: JMA





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

DATE: January 26, 2021

TO: Erin Cheely, Environmental Program Consultant  
Environmental Coordination & Permitting Group Western, EAU

FROM: Chris Manley, Environmental Program Consultant  
Biological Surveys Group, EAU

SUBJECT: Section 7 survey results for the northern long-eared bat (*Myotis septentrionalis*) associated with the replacement of Bridge 70 over Rocky River on US 52 in Anson and Stanly Counties, **TIP No. B-4407**.

The North Carolina Department of Transportation (NCDOT, Division 10) proposes to replace Bridge No. 70 over Rocky River on US 52 in Anson and Stanly Counties, TIP No. B-4407. The replacement structure will be a five-span (5@105'63") bridge approximately 525 feet long providing a minimum 32' clear deck width. The existing structure contains reinforced concrete deck girders, abutments, and bents. The guardrail is also constructed of concrete.

The project to replace Bridge No. 70 has been reviewed for effects on the northern long-eared bat (NLEB). As of May 4, 2015, NLEB is listed by the U.S. Fish and Wildlife Service (USFWS) as "Threatened" under the Endangered Species Act of 1973. As of July 17, 2020, NLEB is listed by USFWS ([http://www.fws.gov/raleigh/species/cntylist/nc\\_counties.html](http://www.fws.gov/raleigh/species/cntylist/nc_counties.html)) as "probable/potential" in Stanly County. The NLEB is not listed for Anson County.

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated October 2020, **there are no known hibernacula within 25 miles of the project and no known NLEB roost trees occur within 150 feet of the project area.**

NCDOT has also reviewed the USFWS Asheville Field office website ([http://www.fws.gov/asheville/htmls/project\\_review/NLEB\\_in\\_WNC.html](http://www.fws.gov/asheville/htmls/project_review/NLEB_in_WNC.html)) for consistency with NHP records. This project is located entirely outside of the red highlighted areas (12-digit HUC) that the USFWS Asheville Field Office has determined to be representative of an area that may require consultation. The closest 12 digit (030501010502) red HUC is approximately 109 miles to the northwest (Johns River) in Avery County.

On July 24, 2019, NCDOT biologist assessed Bridge No. 70 for potential NLEB habitat. Suitable roosting crevices were present on the structure, but no evidence (bats, guano, or staining) of bats was observed.

Based on the lack of evidence of bats on the bridge, no known roost trees within 150 feet of the project area, and being 109 miles to the closest 12 digit red HUC, NCDOT recommends a Biological Conclusion of **NO EFFECT** for the NLEB.

Final design and environmental impacts information will be provided in the permit application.

If you need any additional information, please contact Chris Manley at 919-707-6135.



# Tribal Coordination

Catawba Indian Nation  
Tribal Historic Preservation Office  
1536 Tom Steven Road  
Rock Hill, South Carolina 29730

Office 803-328-2427  
Fax 803-328-5791



January 15, 2020

Attention: David Stutts  
NC Department of Transportation  
1581 Mail Service Center  
Raleigh, NC 27699

Re. THPO #	Project #	Project Description
2020-193-64	B-4407	Replacement of Bridge No. 70 on US 52 over Rocky River in Stanly, Anson County

Dear Mr. Stutts,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail [caitlinh@ccppcrafts.com](mailto:caitlinh@ccppcrafts.com).

Sincerely,

Wenonah G. Haire  
Tribal Historic Preservation Officer

# Permit Package

# PROJECT COMMITMENTS

TIP No. B-4407  
Replacement of Bridge 70 over Rocky River on US 52  
Anson and Stanly Counties  
Federal Aid Project No. BRNHS-52(22)  
WBS Element 38356.3.2

## COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

### **NCDOT Division 10**

This project involves construction activities on or adjacent to a FEMA-regulated stream(s). Therefore, the Division will submit sealed as-built construction plans to the NCDOT Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain, were built as shown in the construction plans, both horizontally and vertically.

### **NCDOT Hydraulic Design Unit**

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP) to determine the status of the project with regard to applicability of NCDOT's Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

*Coordination resulted in approval on October 16, 2019 for the FEMA NFIP (National Flood Insurance Program) under NCDOT's MOA with the FMP. This commitment is still valid.*

### **NCDOT Project Management Unit, Roadway Design, Division 10 Construction**

NCDOT PMU and Roadway Design Unit will continue to coordinate with the Carolina Thread Trail, to accommodate the proposed trail, blue-way, and parking area, during the final design phase.

*Since the completion of the NEPA Document, a parking area has been established with river access via wooden stairs leading down to the Rocky River. This project will avoid impacts to this facility.*

### **Division 10 Construction**

A historical marker is located in the northeast quadrant of the existing bridge. Coordination with the North Carolina Department of Cultural Resources (NCDOR) will need to take place, to ensure proper handling and replacement of the historical marker.

*Sheet 6 of the Roadway Plans indicate: "Relocate historical marker 1' outside of left proposed paved shoulder."*

## **NCDOT Environmental Analysis Unit, NCDOT Div. 10 Construction**

During the course of the archaeological survey, one previously recorded archaeological site was identified (31AN12/134). The core area of site 31AN12/134, described as the “midden” within the upper terrace, is eligible for listing in the National Register of Historic Places (NRHP) under Criterion D, for its information potential. It was recommended that this portion of site 31AN12/134 be avoided. However, if ground disturbing activities are scheduled to take place in this area, then archaeological data recovery investigations will be necessary to mitigate the adverse impacts. In addition, archaeological monitoring of any ground disturbing activities that may impact portions of site 31AN12/134 that lie outside of the NRHP recommended portion of the site was recommended.

The following specifications will be included in the construction plans, and NCDOT will be responsible for ensuring that the contractor adheres to these commitments during the construction phase of the project:

- The contractor will contact Matt Wilkerson at (919) 707-6089 or [mtwilkerson@ncdot.gov](mailto:mtwilkerson@ncdot.gov), when ground-disturbing activities are anticipated on the south side of the Rocky River, in locations designated from "Station 14+20 to Station 34+30" on the contract plans.
- The contractor will provide 72 hours-notice to Mr. Wilkerson, prior to ground-disturbing activities that take place on the south side of the Rocky River, in the locations designated from "Station 14+20 to Station 34+30" on the contract plans. The 72-hour period will begin upon acknowledgment by Mr. Wilkerson that they have received the contact from the contractor.
- Mr. Wilkerson or his designate, will be on-site during the ground disturbing activities that take place on the south side of the Rocky River, to monitor the activities within the locations designated from "Station 14+20 to Station 34+30". Monitoring activities may include: Cleaning and photographing areas exposed during construction, mapping both plan and profile views of open trenches, as well as collecting materials or artifacts exposed during construction. Mr. Wilkerson or his designate, will have the authority to halt all construction work in the monitored location(s) to assess the need for further archaeological excavations.

## **NCDOT Division 10, Roadside Environmental Unit**

NCDOT will adhere to Design Standards in Sensitive Watersheds (DSSW), as the Rocky River is listed in the 2018 Final 303(d) list of impaired waters due to turbidity

## **COMMITMENTS FROM PERMITTING**

No additional commitments have been developed during project permitting.

ROY COOPER

Governor

DIONNE DELLI-GATTI

Secretary

S. DANIEL SMITH

Director

NORTH CAROLINA  
Environmental Quality

March 31, 2021

Stanly &amp; Anson Counties

NCDWR Project No. 20201506v.1

Replace Bridge 70 on US 52

State Project No. B-4407

**APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS**

Mr. Philip S. Harris, III, P.E., CPM  
Environmental Analysis Unit Head  
1598 Mail Service Center  
Raleigh, NC 27699-1598

Dear Mr. Harris:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of replacing bridge 70 on US 52 (B-4407) in Stanly and Anson Counties:

**Stream Impacts in the Yadkin-PeeDee River Basin**

Site	Bank Stabilization (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
1 causeway (Anson Co)				30	30	0
2 causeway (Stanly Co)				30	30	0
3 pipe (Stanly Co)				44	44	0
4 causeway (Stanly Co)				30	30	0
5 causeway (Anson Co)				30	30	0
6 (Anson Co) SW outlet	10				10	0
7 pipe (Anson Co)		40			40	0
8 (Anson & Stanly Co)	60				60	0
<b>TOTAL</b>	<b>70</b>	<b>40</b>	<b>0</b>	<b>164</b>	<b>274</b>	<b>0</b>

**Total Temporary Stream Impact for Project: 144 linear feet. (several impacts overlap)**

**Total Permanent Stream Impacts: 70 linear feet**

The project shall be constructed in accordance with your application dated received February 12, 2021 and the email received from NC DOT ECAP on March 31, 2021. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 4134 and 4141. This certification corresponds to the Nationwide Permit 13 and Nationwide Permit 33 issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the accompanying 404 permit.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If total wetland fills for this project (now or in the future) exceed one acre, or of total



North Carolina Department of Environmental Quality | Division of Water Resources

512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617

919.707.9000



impacts to perennial streams (now or in the future) exceed 300 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification(s) and any additional conditions listed below.

**Condition(s) of Certification:**

**Project Specific Conditions**

1. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species. [15A NCAC 02H .0506(b)(2)]
2. As a condition of this 401 Water Quality Certification, the bridge demolition and construction must be accomplished in strict compliance with the most recent version of NCDOT's Best Management Practices for Construction and Maintenance Activities. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
3. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. To meet the requirements of NCDOT's NPDES permit NCS000250 [delete if non-DOT project], please refer to the most recent version of the North Carolina Department of Transportation Stormwater Best Management Practices Toolbox manual for approved measures. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
4. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from the NCDWR first. [15A NCAC 02H.0506(b)(2)]
5. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly. [15A NCAC 02H .0506(b)(3)]
6. A turbidity curtain will be installed in the stream if driving or drilling activities occur within the stream channel, on the stream bank, or within 5 feet of the top of bank, or during the removal of bents from an old bridge. This condition can be waived with prior approval from the NCDWR. [15A NCAC 02H .0506(b)(3)]
7. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways, or floating or sunken barges. If work conditions require barges, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water. [15A NCAC 02H .0506(b)(3)]
- 8.

**General Conditions**

1. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWR for

guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]

2. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
3. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
4. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
5. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
6. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
7. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]
8. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
9. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
10. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
11. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
12. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
13. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
14. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]



15. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
18. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]
19. Native riparian vegetation (ex. *Salix nigra*, *Juncus* (spp), *Carex* (spp), et al.) must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0231(b)(6)]
20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.[15A NCAC 02H.0506(b)(3) and (c)(3)]
21. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
22. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings  
6714 Mail Service Center  
Raleigh, NC 27699-6714  
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel  
Department of Environmental Quality  
1601 Mail Service Center

This letter completes the review of the Division of Water Resources under Section 401 of the Clean Water Act. If you have any questions, please contact Donna Hood at (704) 235-2193 or donna.hood@ncdenr.gov.

Sincerely,

DocuSigned by:

*Amy Chapman*

9C9886312DCD474...

S. Daniel Smith, Director

Division of Water Resources

Electronic copy only distribution:

Eric Alsmeyer, US Army Corps of Engineers, Raleigh Field Office  
Joel Howard, Division 10 Environmental Officer  
Michael Turchy, NC Department of Transportation  
Holland Youngman, US Fish and Wildlife Service  
Lauren Wilson, US Fish and Wildlife Service  
Marla Chambers, NC Wildlife Resources Commission  
Donna Hood, NC Division of Water Resources Mooresville Regional Office  
File Copy

ROY COOPER  
Governor

DIONNE DELLI-GATTI  
Secretary

S. DANIEL SMITH  
Director



NCDWR Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

**Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, **or** the project engineer. It is not necessary to send certificates from all of these.

**Applicant's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

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

**Agent's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

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

**Engineer's Certification**

\_\_\_\_\_ Partial \_\_\_\_\_ Final

I, \_\_\_\_\_, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_  
Date \_\_\_\_\_



**USFWS  
IPaC  
Resource  
List**



# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Anson and Stanly counties, North Carolina



## Local office

Asheville Ecological Services Field Office

☎ (828) 258-3939

📠 (828) 258-5330

160 Zillicoa Street

100 Emerald Street  
Asheville, NC 28801-1082

NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).



2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

## Mammals

NAME	STATUS
<p>Tricolored Bat <i>Perimyotis subflavus</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a></p>	Proposed Endangered

## Birds

NAME	STATUS
<p>Red-cockaded Woodpecker <i>Picoides borealis</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/7614">https://ecos.fws.gov/ecp/species/7614</a></p>	Endangered

## Clams

NAME	STATUS
<p>Atlantic Pigtoe <i>Fusconaia masoni</i>            Wherever found            There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.  <a href="https://ecos.fws.gov/ecp/species/5164">https://ecos.fws.gov/ecp/species/5164</a></p>	Threatened
<p>Carolina Heelsplitter <i>Lasmigona decorata</i>            Wherever found            There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.  <a href="https://ecos.fws.gov/ecp/species/3534">https://ecos.fws.gov/ecp/species/3534</a></p>	Endangered

## Insects

NAME	STATUS
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**Monarch Butterfly** *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

## Flowering Plants

NAME

STATUS

**Schweinitz's Sunflower** *Helianthus schweinitzii*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/3849>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation->

[measures.pdf](#)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\) list](#) or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p><b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p>	Breeds Sep 1 to Jul 31
<p><b>Chimney Swift</b> <i>Chaetura pelagica</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Mar 15 to Aug 25
<p><b>Prairie Warbler</b> <i>Dendroica discolor</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 1 to Jul 31
<p><b>Prothonotary Warbler</b> <i>Protonotaria citrea</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Apr 1 to Jul 31
<p><b>Red-headed Woodpecker</b> <i>Melanerpes erythrocephalus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 10 to Sep 10

**Wood Thrush** *Hyalocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (I)



Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

**No Data (-)**

A week is marked as having no data if there were no survey events for that week.

**Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

### **What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.



# Facilities

## National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

### Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### **Data exclusions**

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.