



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

April 7, 2022

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

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Application for Section 404 Reginal General Permit 50, and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge 80 on SR 1512 over Unnamed Tributary to North Deep Creek in Yadkin County, Division 11, TIP No. BR-0109, Debit \$240 from WBS 49217.1.1.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 80 on SR 1512 (Abraham Road) over an unnamed Tributary to North Deep Creek. The bridge will be replaced on the existing alignment while detouring traffic offsite during construction.

As a result of replacing the existing bridge, there will be 105 linear feet of permanent stream impact (95 linear feet from roadway fill/ditch and 10 linear feet of bank stabilization), and 114 linear feet of temporary stream impacts (101 linear feet [0.02 acre] from impervious dike and 13 linear feet [<0.01 acre] associated with the roadway fill/ditch impact).

Please see enclosed copies of the Pre-Construction Notification (PCN), which includes the following attachments: Stormwater Management Plan, Permit Drawings, CE Classification Form, Historic Archaeological Letter, Historic Architecture Letter, Tribal Coordination Response Letter, Twiman Mitigation Bank summary document, NLEB Memo, and Schweinitz's sunflower survey Memo. The CE Classification Form was completed in May 2020 and distributed shortly thereafter.

This project calls for a letting date of July 19, 2022, and a review date of May 31, 2022.

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 Bill Barrett at wabarrett@ncdot.gov or (919) 707-6103.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael L. Harris".

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

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)

December 6, 2021 Ver 4.2

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: *

Yadkin

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:

BR-0109

WBS # *

67109.1.1

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps: *

- ☒ Section 404 Permit (wetlands, streams and waters, Clean Water Act)
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted? *

☐ Yes
☒ No

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

- ☐ Nationwide Permit (NWP)
☒ Regional General Permit (RGP)
☐ Standard (IP)

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

☐ Yes ☒ No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

RGP Numbers (for multiple RGPs):

List all RGP 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 401 Water Quality Certification
☐ 401 Water Quality Certification - Express
☐ Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?

*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

1f. Is this an after-the-fact permit application? *

☐ Yes ☒ No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

☒ Yes ☐ No

Acceptance Letter Attachment

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

BR-0109 Mitigation Acceptance.pdf

277.8KB

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

☐ Yes ☒ No

1j. Is the project located in a designated trout watershed? *

☐ Yes ☒ No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information

1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

wabarrett@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6103

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: *

n/a

2b. Deed book and page no.:

2c. Contact Person:

(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)707-6103

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

wabarrett@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Replacement of Bridge 80 over UT North Deep Creek on SR 1512.

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Boonville

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: *

36.208231

ex: 34.208504

Longitude: *

-80.684100

-77.796371

3. Surface Waters

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

North Deep Creek

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. *

030401011102

[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: *

Undeveloped woods and agricultural land.

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

☐ Yes ☒ No ☐ Unknown

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

0.08

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

(intermittent and perennial)

707

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

The purpose of the proposed project is to replace a functionally obsolete bridge due to its narrow lanes and insufficient load-carrying capacity. NCDOT Structure Management Unit records indicate Bridge 80 has a sufficiency rating of 55.46 out of 100.

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

The NCDOT proposes to replace Bridge 80 on Abraham Road (SR 1512) over UT to North Deep Creek in Yadkin County on existing alignment while detouring traffic offsite during construction. The existing structure is 26 feet long and 20 feet wide. NCDOT proposes to construct a single-span bridge 60 feet long and 30 feet wide.

5. Jurisdictional Determinations

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

☒ Yes ☐ No ☐ Unknown

Comments:

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): Jim Mason, PWS
Agency/Consultant Company: Three Oaks Engineering
Other:

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

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site # * (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. *	2d. W. name *	2e. Forested *	2f. Type of Jurisdiction * (?)	2g. Impact area * (acres)
1	roadway fill	P	Headwater Forest	WD	Yes	Corps	0.007

2g. Total Temporary Wetland Impact
0.000

2g. Total Permanent Wetland Impact
0.007

2g. Total Wetland Impact
0.007

2i. Comments:
This is a mechanized clearing impact to this wetland.

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 * (?)	3b. Impact type *	3c. Type of impact *	3d. S. name *	3e. Stream Type * (?)	3f. Type of Jurisdiction *	3g. S. width * Average (feet)	3h. Impact length * (linear feet)
S1	Bank Stabilization	Permanent	Bank Stabilization	SB	Perennial	Both	40	10
S2	Impervious dike	Temporary	Dewatering	SB	Perennial	Both	40	101
S3	Roadway widening	Permanent	Fill	SA	Perennial	Both	5	95
S4	Roadway widening	Temporary	Fill	SA	Perennial	Both	5	13

** 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:
105

3i. Total temporary stream impacts:

114

3i. Total stream and ditch impacts:

219

3j. Comments:

S1 and S2 are impacts at Site 1.
S3 and S4 are impacts at Site 2.

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

The proposed bridge will be more than double the length of the current bridge, completely spanning UT to North Deep Creek, thus increasing hydraulic connectivity to the overall system.

The bridge will be replaced on existing location.

There will be no direct discharge into UT to North Deep Creek, as bridge drainage will be directed to a riprap pad.

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

Best Management Practices for Surface Waters will be used during all phases of construction.

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

2c. If yes, mitigation is required by (check all that apply):

☐ DWR ☒ Corps

2d. If yes, which mitigation option(s) will be used for this project?

☐ Mitigation bank ☒ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

☒ Yes ☐ No

4b. Stream mitigation requested:

(linear feet)

95

4c. If using stream mitigation, what is the stream temperature:

warm

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

4d. Buffer mitigation requested (DWR only):

(square feet)

4e. Riparian wetland mitigation requested:

(acres)

0.01

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

Mitigation is proposed for the 95 lf of fill/loss of water impacts. Mitigation is not proposed for the 10 lf of bank stabilization as there will be no "loss of waters" of the US for this impact.

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:

2. Stormwater Management Plan

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

☒ Yes ☐ No



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

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 project, 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

5c. If yes, indicate the USFWS Field Office you have contacted.

Asheville

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

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

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

IPaC, Natural Heritage Program (NHP) Biotics database, field survey.

NLEB: 4(d) Memo (attached).

Schweinitz's sunflower: field surveys (Memo attached).

6. Essential Fish Habitat (Corps Requirement)

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

☐ Yes ☒ No

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

NMFS County Index.

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? *

☐ Yes ☒ No

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

NEPA Documentation, and attachments (Archaeology Memo, Historic Architecture Memo, and Tribal Coordination letter).

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

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

FEMA Floodmap.

Miscellaneous

Comments

BR-0109 will encroach into the conservation easement boundaries of the proposed Twiman Mitigation Site which abuts the existing ROW on both sides of the bridge. The Twiman Mitigation Site has been constructed, but it is presently in monitoring and has not been closed out by the Interagency Review Team (IRT). NCDOT presented the proposed design for BR-0109 to the IRT on December 8, 2020, for review. The IRT determined that the proposed encroachment would result in a loss of mitigation credits from the mitigation bank. However, because the mitigation project had not been closed out, it was decided that the proposed encroachment was allowable, and that the affected credits would be subtracted from the available credits of the mitigation bank at close out. NCDOT will be responsible for compensating the mitigation bank developers for the value of any lost credits. Due to encroachment of the project into the Twiman Mitigation Site, there will be 10.6 Stream Mitigation Units (SMUs) of credit which requires compensation. Information attached.

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

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

BR-0109_Permit Drawings.pdf	4.01MB
BR-0109 Archaeology.pdf	381.29KB
BR-0109 Historical Architecture.pdf	220.7KB
BR-0109 Tribal Response_Catawba Indian Nation_2020-193-84.pdf	482.11KB
BR-0109 Twiman Mitigation Site.pdf	51.83KB
BR-0109_CE_Signed May 2020.pdf	3.86MB
BR-0109 Cover Letter.pdf	242.99KB
BR-0109 2021-11-29 Sunflower Memo.pdf.pdf	1.78MB
BR-0109 2019-09-12 NLEB 4(d) Memo.pdf	401.84KB

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 Turchy

Signature *

A handwritten signature in black ink that reads "Michael Turchy". The signature is written in a cursive style with a large 'M' and a stylized 'T'.

Date

4/7/2022

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MARC RECKTENWALD

Director



NORTH CAROLINA
Environmental Quality

March 30, 2022

Mr. Philip S. Harris, III, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

BR-0109, Replace Bridge 80 over Farmers Creek on SR 1512, Yadkin County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory mitigation for the subject project. Based on the information supplied by you on March 28, 2022, the impacts are located in CU 03040101 of the Yadkin River basin in the Central Piedmont (CP) Eco-Region, and are as follows:

Stream and Wetlands	River Basin	CU Location	Eco-Region	Stream			Wetlands		
				Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Yadkin	03040101	CP	0	0	95.000	0.010	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

The impacts and associated mitigation needs were under projected by the NCDOT in the 2022 impact data. NCDEQ-DMS will commit to implement sufficient compensatory mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

for James B. Stanfill
DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: BR-0109



North Carolina Department of Environmental Quality | Division of Mitigation Services
217 West Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652
919.707.8976



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 2.08; Released April 2018)

WBS Element: TIP No.: BR-0109 County(ies): Yadkin Page 1 of 1

General Project Information

WBS Element:		TIP Number:	BR-0109	Project Type:	Bridge Replacement	Date:	6/18/2020
NCDOT Contact:	David Stutts			Contractor / Designer:	Steve Bondor		
	Address:	Structures Management Unit 1000 Birch Ridge Drive Raleigh, NC 27610			Address:	Dewberry 2610 Wycliff Rd Suite 410 Raleigh, NC 27607	
	Phone:	919-707-6442			Phone:	919-636-6334	
	Email:	dstutts@ncdot.gov			Email:	sbondor@dewberry.com	
City/Town:				County(ies):	Yadkin		
River Basin(s):	Yadkin-Pee Dee			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	0.06	Surrounding Land Use:	Rural Agricultural
	Proposed Project		Existing Site
Project Built-Up Area (ac.)	0.21 ac.	0.16 ac.	
Typical Cross Section Description:	10' travel lanes with 3' shoulders with 0.02 cross slope normal crown.		10' travel lanes 0.02 cross slopes normal crown.
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 880	Year: 2040	Existing: 440 Year: 2015
General Project Narrative: (Description of Minimization of Water Quality Impacts)	Replacement of the existing 1@25'-7" span timber deck, vertical timber abutment bridge with 1@60' span 24" cored slab with 4' end bent caps bridge. Existing drainage from bridge discharges directly into stream. In the proposed condition to avoid direct discharge into the stream a grate inlet (L 29+00 RT) has been placed on low side to collect bridge drainage and discharge into a riprap pad outlet at bottom of existing embankment.		

Waterbody Information

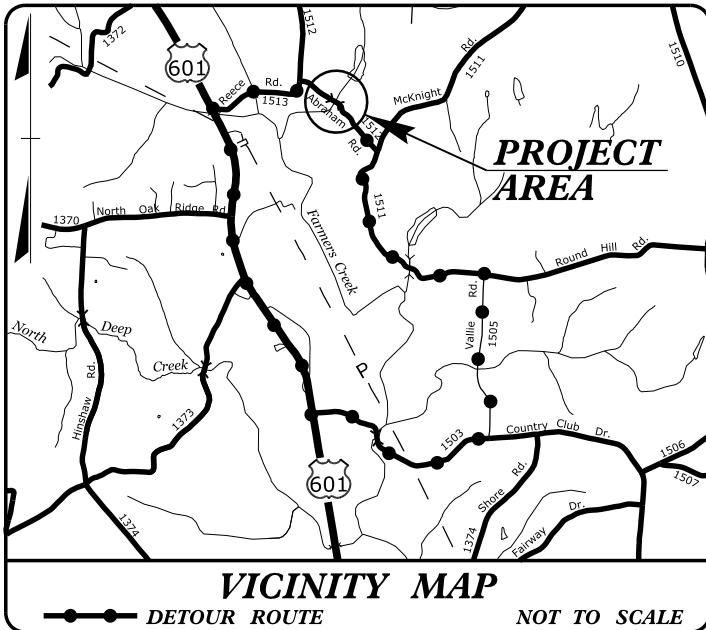
Surface Water Body (1):	Deep Creek Tributary 4B		NCDWR Stream Index No.:	12-84-1-(0.5)ut14ut13	
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C			
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?	Comments:				
NRTR Stream ID:			Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

09/08/19

TIP PROJECT: BR-0109

CONTRACT:

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

YADKIN COUNTY

LOCATION: REPLACE BRIDGE NO. 80 ON SR 1512 (ABRAHAM RD.)
OVER NORTH DEEP CREEK TRIBUTARY 4B

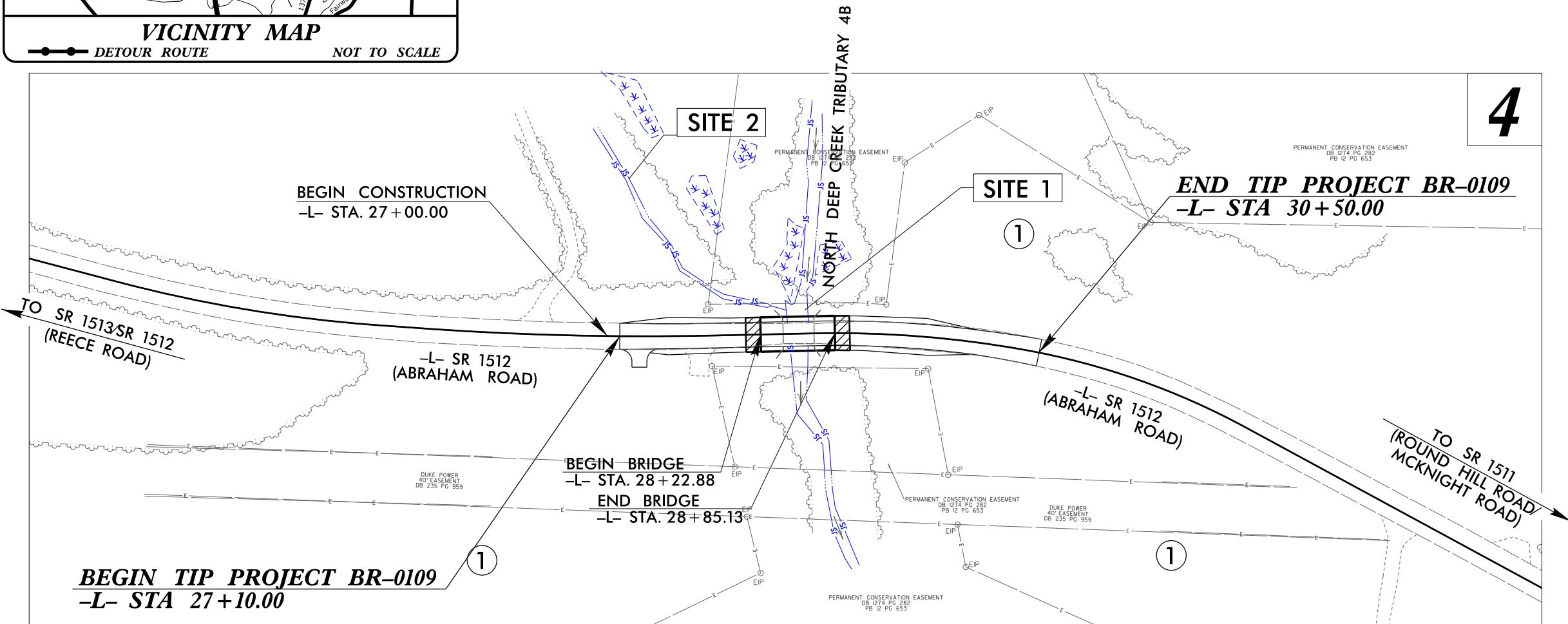
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 1 OF 4

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0109	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49217.1.1		PE	
49217.2.1		R/W & UTIL.	

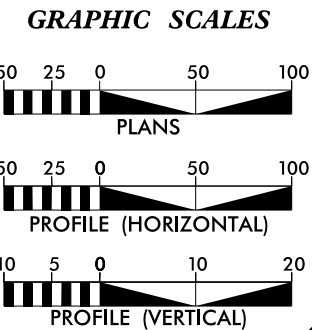
R/W PLANS



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

DESIGN EXCEPTION FOR SAG VERTICAL CURVE K VALUE AND NIGHTTIME VERTICAL SSD.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA
ADT 2015 = 440
ADT 2040 = 880

V = 55 MPH

FUNC CLASS =
RURAL LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH
LENGTH ROADWAY PROJECT BR-0109 = 0.052 MILES
LENGTH STRUCTURE PROJECT BR-0109 = 0.012 MILES
TOTAL LENGTH PROJECT BR-0109 = 0.064 MILES

Plans Prepared By:

Plans Prepared For:
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 20, 2020

DAVID STUTTS, PE
NCDOT PROJECT ENGINEER

M. TRAVIS POTTS, PE
PROJECT ENGINEER

DAVE JANOSKO, PE
PROJECT DESIGN ENGINEER

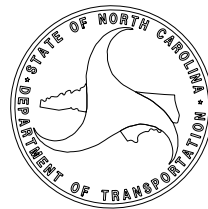
LETTING DATE:
JULY 21, 2020

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
ENGINEER

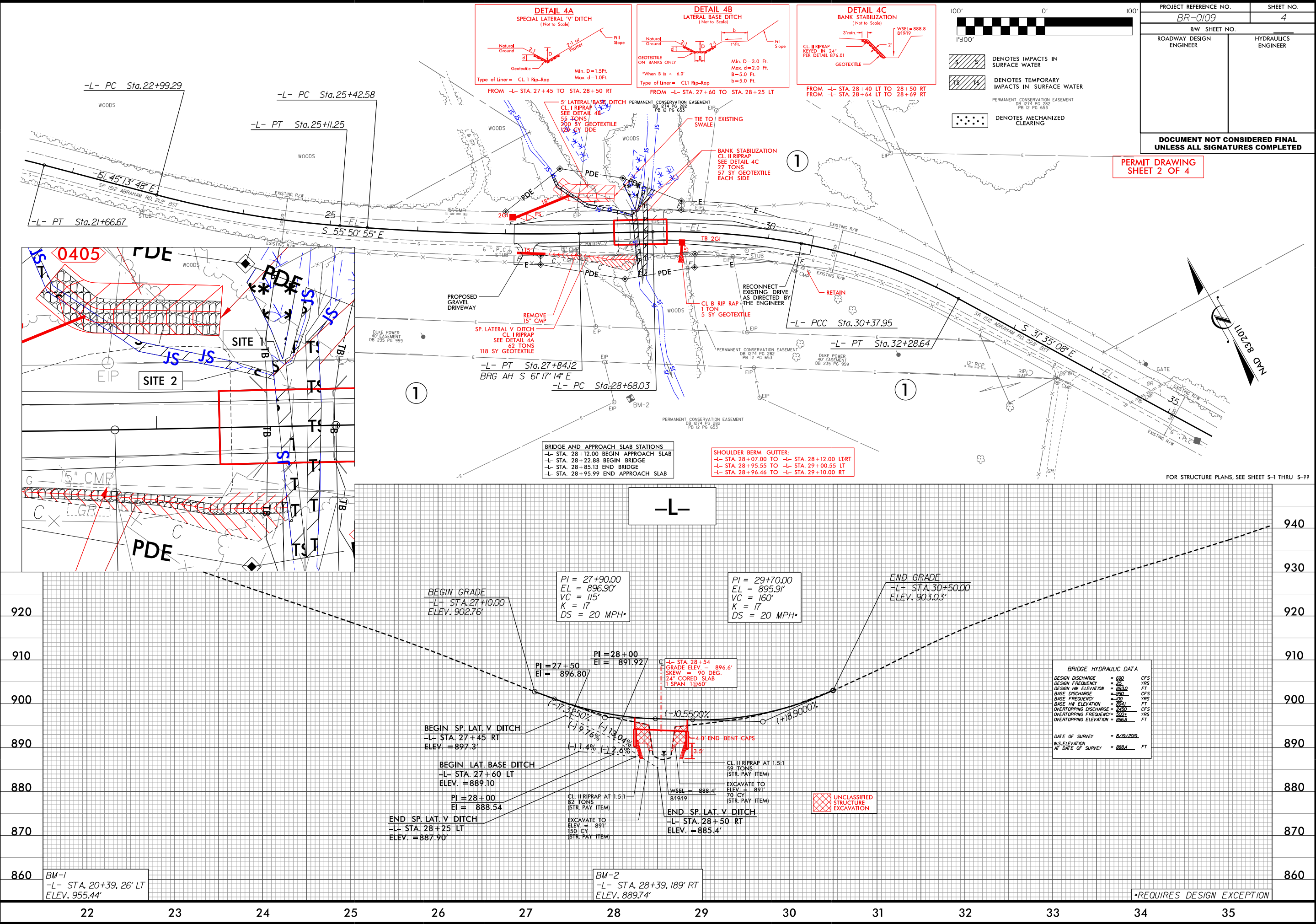
SIGNATURE: _____ P.E.

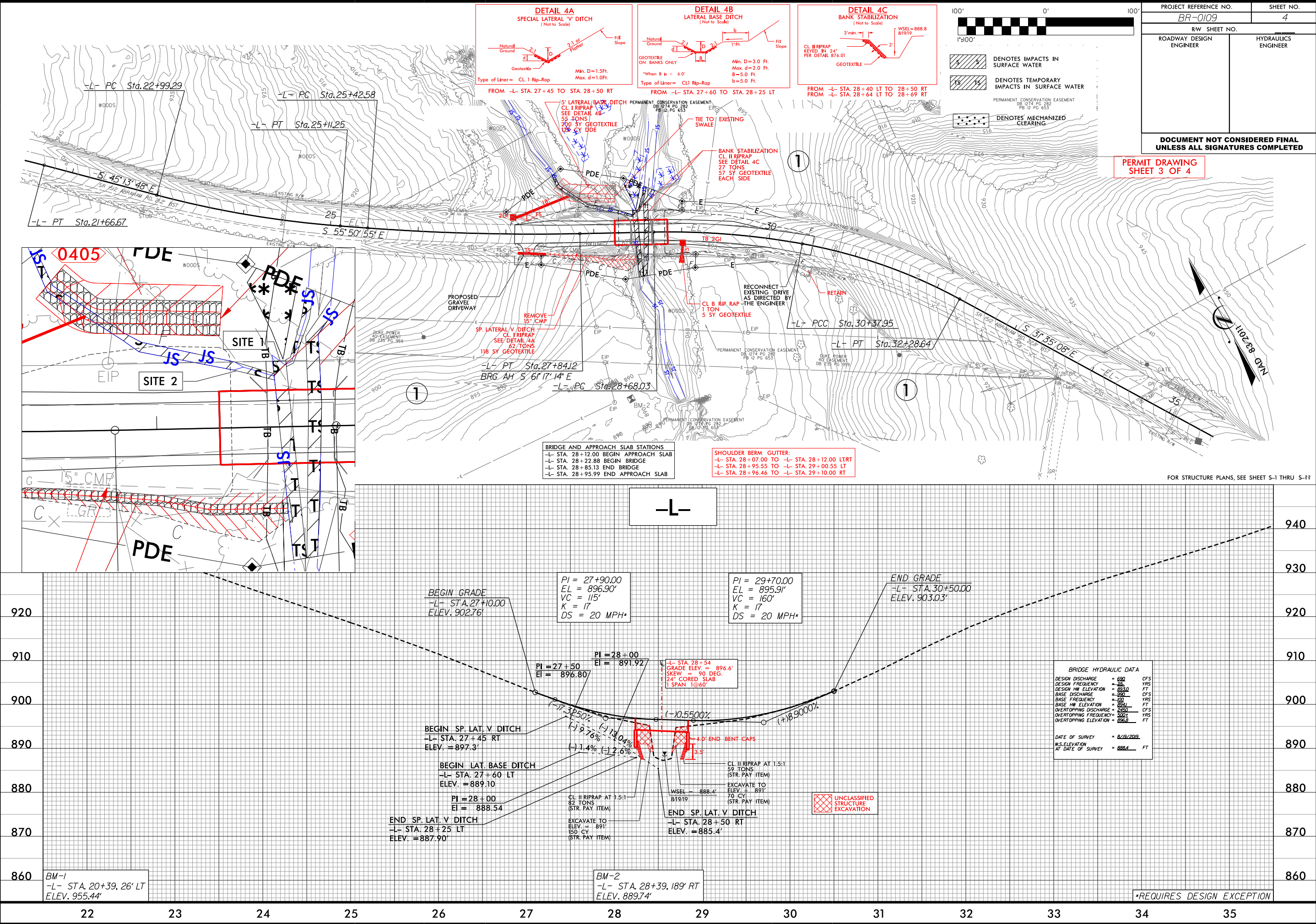


8/17/99

REVISIONS

6/17/2020
DEWEY
BR-0109_TERRAIN DRAWINGS_20200617.PDF





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 28+40 LT TO L 28+50 RT	Bank Stabilization						< 0.01		10		
1	L 28+40 LT TO L 28+61 RT	Impervious Dike							0.02		101	
2	L 27+57 LT TO 28+33 LT	Roadway and Ditch						< 0.01		95	13	
1	L 28+35 TO L 28+56 LT	Roadway and Ditch				< 0.01						
TOTALS*:						< 0.01		< 0.01	0.02	105	114	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
6/17/2020
YADKIN
BR-0109

From: [Ellwanger, Claire](#)
To: [Barrett, William A](#)
Subject: Re: [EXTERNAL] BR-0109_Yadkin_4(d) bat memo distribution
Date: Thursday, January 9, 2020 7:39:35 AM
Attachments: [image001.png](#)

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to report.spam@nc.gov

Thanks Bill!

On Wed, Jan 8, 2020 at 3:53 PM Barrett, William A <wabarrett@ncdot.gov> wrote:

Hi again Claire,

I've got another bat memo for another project.

Attached is the 4(d) bat memo for **BR-0109**, in **Yadkin County**. Per the attached Memo, NCDOT has satisfied the 4(d) requirements for this project.

Thanks!

Bill

William A. Barrett

Environmental Senior Specialist

Environmental Analysis Unit

Environmental Coordination & Permitting

North Carolina Department of Transportation

919 707 6103 office

wabarrett@ncdot.gov

1598 Mail Service Center



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 12, 2019

TO: Michael Turchy, ECAP Western regional Team Lead
Environmental Coordination & Permitting Group, EAU

FROM: Melissa Miller, 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 No. 80 over Creek on SR 1512 in Yadkin County, **TIP No. BR-0109**.

The North Carolina Department of Transportation (NCDOT, Division 11) proposes to replace Bridge No. 80 over Creek on SR 1512 in Yadkin County, TIP No. BR-0109. The existing bridge is a single span structure with timber deck, steel I-beams, timber end walls and guard rails. The overall length of the structure is 26 feet.

Northern long-eared bat

The project to replace Bridge No. 80 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 September 12, 2019, NLEB is listed by USFWS (http://www.fws.gov/raleigh/species/cntylist/nc_counties.html) as "probable/potential" in Yadkin County. USFWS also established a final rule under the authority of section 4(d) of the Endangered Species Act that provides measures for the conservation of NLEB. The USFWS has tailored the final 4(d) rule to prohibit the take of NLEB from certain activities within areas where they are in decline. This incidental take protection applies only to known NLEB occupied maternity roost trees and known NLEB hibernacula. Effective February 16, 2016, incidental take resulting from tree removal is prohibited if it 1) occurs within a ¼ mile radius of known NLEB hibernacula; or 2) cuts or destroys known occupied maternity roost trees or any other trees within a 150-foot radius from the known maternity tree during the pup season (June 1-July 31).

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated July 2019, **the nearest NLEB hibernacula record is 63 miles west 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) 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.

For the proposed action, NCDOT has committed to the conservation measures listed below:

- 1) No alterations of a known hibernacula entrance or interior environment if it impairs an essential behavioral pattern, including sheltering northern long-eared bats (January 1 through December 31);
- 2) No tree removal within a 0.25 mile radius of a known hibernacula (January 1 through December 31); and
- 3) No cutting or destroying a known, occupied maternity roost tree, or any other trees within a 150-foot radius from the known, occupied maternity tree during the period from June 1 through and including July 31.

NCDOT has determined that the proposed action does not require separate consultation on the grounds that the proposed action is consistent with the final Section 4(d) rule, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016. NCDOT may presume its determination is informed by best available information and consider Section 7 responsibilities fulfilled for NLEB.

If you need any additional information, please contact Melissa Miller at 919-707-6127.



MEMORANDUM

DATE: November 29, 2021

TO: Michael Turchy

FROM: John Merritt

SUBJECT: STIP Project: BR-0109 - Protected Species Surveys

Message

On October 21, 2021 foot surveys for the Schweinitz's sunflower were conducted within the project study area. Habitat was present in the project study area within the roadside shoulders and maintained fields. No Schweinitz's sunflowers were found within the survey limits. A review of the NC Natural Heritage Program records on October 20, 2021 indicates there are no known records within 1.0 mile of the study area. It can be concluded that the project will have No Effect on the Schweinitz's sunflower.



NO ARCHAEOLOGICAL SURVEY REQUIRED FORM

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.



PROJECT INFORMATION

Project No: **BR-0109**

County: **Yadkin**

WBS No: **67109.1.1**

Document: **Federal CE**

F.A. No:

Funding: ☐ State ☒ Federal

Federal Permit Required?



Yes



No

Permit Type: **USACE**

Project Description: Replacement of Bridge 131 on SR 1512 (Abraham Road) over an unnamed tributary to North Creek in Yadkin County, North Carolina. The archaeological Area of Potential Effects (APE) encompasses the entire project study area as depicted on the attached ARC-GIS mapping. It measures 1,000ft in length (500ft from each bridge end-point) and 150ft in width (75ft from the SR 1512 center-line).

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:

Permitting and funding information was reviewed for determining the level of archaeological input required by state and federal laws. Based on the submitted "request for cultural resources review" form, the project is federally-funded with federal permit interaction. As such, Section 106 of the National Historic Preservation Act will apply and the United States Army Corps of Engineers (USACE) will serve as the lead federal agency. Next, construction design and other data was examined (when applicable) to define the character and extent of potential impacts to the ground surfaces embracing the project locale. The APE was primarily designed to capture any federal permit areas or areas of potential ground disturbing activity.

Once an APE was outlined, a map review and site file search was conducted at the Office of State Archaeology (OSA) on Wednesday, September 11, 2019. No NRHP eligible archaeological sites or any other previously documented archaeological sites are located within the APE or proximal.

Examination of National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing resources available on the NCSHPO website is important in establishing the location of noteworthy historic occupations related to a perspective construction impact area. A cross-check of these mapped resources concluded that no meaningful historic properties with possible contributing archaeological elements were located inward of the archaeological APE margins. In addition, historic maps of Yadkin County were appraised to identify former structure locations, land use patterns, or other confirmation of historic occupation in the project vicinity. Archaeological/historical reference materials were inspected as well. In general, the cultural background review established that no NRHP listed properties or cemeteries are located within the APE. Based on cultural-historical factors, the APE is considered to have a low potential for the documentation of archaeological resources.

Further, topographic, geologic, flood boundary, and NRCS soil survey maps were referenced to evaluate pedological, geomorphological, hydrological, and other environmental determinants that may have resulted in past occupation at this location. Aerial and on-ground photographs (NCDOT Spatial Data Viewer) and the Google Street View map application (when amenable) were also examined/utilized for additional assessment of disturbances, both natural and human induced, which compromise the integrity of archaeological sites. Environmental/impact factors do not suggest a heightened potential for archaeological resource recovery.

19-08-0011

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:


Soil data illustrates that the majority of ground surfaces within the APE are moderately eroded or occasionally flooded. Environmental and cultural-historical factors do not suggest a heightened potential for archaeological resource recovery in the APE. Intact NRHP eligible archaeological sites are unlikely to be present or preserved within the currently defined APE. No further consultation is advocated. A finding of "no archaeological survey required" is considered appropriate.

This project falls within a North Carolina County in which the Catawba Indian Nation has expressed an interest: Yadkin County. It is recommended that you contact each federal agency involved with your project to determine their Section 106 Tribal consultation requirements.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☒ Previous Survey Info ☐ Photos ☐ Correspondence
☐ Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST**NO ARCHAEOLOGY SURVEY REQUIRED**


NCDOT

11-3-2019

19-08-0011



HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

PROJECT INFORMATION

Project No:	BR-0109	County:	Yadkin
WBS No.:	67109.1.1	Document Type:	CE
Fed. Aid No:	N/A	Funding:	<input checked="" type="checkbox"/> State <input type="checkbox"/> Federal
Federal Permit(s):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Permit Type(s):	USACE
Project Description: Replace Bridge No. 980080 on SR 1512 (Abraham Road) over Creek.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on August 23, 2019. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects, which is defined on the following maps. There are no National Register listed or eligible properties and no survey is required. If design plans change, additional review will be required.

Why the available information provides a reliable basis for reasonably predicting that there are no unidentified significant historic architectural or landscape resources in the project area:

HPO quad maps and GIS information recording NR, SL, LD, DE, and SS properties for the Yadkin County survey, Yadkin County GIS/Tax information, and Google Maps are considered valid for the purposes of determining the likelihood of historic resources being present. There are no National Register listed or eligible properties within the APE and no survey is required.

SUPPORT DOCUMENTATION

☐ Map(s) ☐ Previous Survey Info. ☐ Photos ☐ Correspondence ☐ Design Plans

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes - **NO SURVEY REQUIRED**

Kate Huber

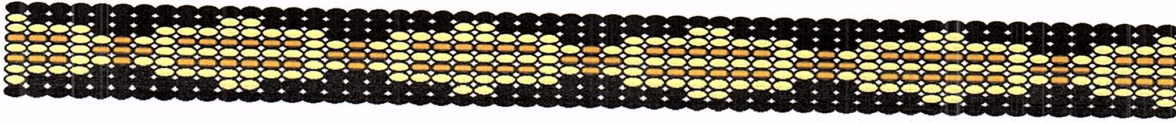
NCDOT Architectural Historian

8/23/2019

Date

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 16, 2020

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

Re. THPO #	Project #	Project Description
2020-193-84	BR-0109	Replacement of Bridge No. 80 on SR 1512 over UT to Farmers Creek in Yadkin 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.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer