



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

November 14, 2023

U. S. Army Corps of Engineers
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, North Carolina 27587

NC Division of Water Resources
Transportation Permitting Branch
1617 Mail Service Center
Raleigh NC 27699-1617

ATTN: Mr. Eric Alsmeyer
NCDOT Coordinator

Mr. Ryan Conchilla
NCDOT Coordinator

Subject: **Application for Section 404 Regional General Permit 50 and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge No. 160001 on US 158 / NC 86 over Country Line Creek in Caswell County, Division 7, TIP BR-0069, Debit \$323 from WBS No. 67069.1.1

Dear Madam or Sir:


The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 160001 on US 158 / NC 86 over Country Line Creek with a new structure in the same location. Traffic will be detoured on-site during construction via a separate detour bridge.

As a result of replacing the bridge, including associated roadway slopes and a detour bridge, there will be 69 linear feet of stream bank stabilization and 78 linear feet (0.13 acre) of temporary stream impacts. There will also be 0.02 acre of temporary (hand clearing) impacts to wetlands from these activities.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, Permit Drawings, Protected Species Info, Cultural Resource Documents, and NEPA/SEPA Document.

A copy of this permit application has been 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 or (919) 707-6108.

Sincerely,


for Michael A. Turchy
Environmental Coordination and Permitting Group Leader

cc: NCDOT Permit Application Standard Distribution List

Pre-Construction Notification



Pre-Construction Notification (PCN) Form

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

October 2, 2023 Ver 4.3

Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/DocView.aspx?dbid=0&id=2196924>

A. Processing Information

Pre-Filing Meeting Date Request was submitted on: *

6/30/2023

If this is a courtesy copy, please fill in this with the submission date.

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? *

☐ Yes ☒ No

Is this project connected with ARPA funding? *

☐ Yes ☒ No

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

Caswell

Is this a NCDMS Project? *

☐ Yes ☒ No

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

DO NOT CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.

Is this project a public transportation project? *

☒ Yes ☐ No

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

Is this a NCDOT Project? *

☒ Yes ☐ No

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

TIP BR-0069

WBS # *

67069.1.1

(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

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? *

Erin Cheely

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6108

1b. Primary Contact Email: *

ekcheely@ncdot.gov

1d. Who is applying for the permit? *

☐ Owner

(Check all that apply)

☒ Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? *

☐ Yes ☒ No

2. Owner Information

2a. Name(s) on recorded deed: *

NCDOT

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6108

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

ekcheely@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

Erin Cheely

3b. Business Name:

(if applicable)

3c. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

3d. Telephone Number: *

(919)707-6108

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

ekcheely@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

TIP BR-0069

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Yanceyville

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: *

36.404300

ex: 34.208504

Longitude: *

-79.297789

-77.796371

3. Surface Waters

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

Country Line Creek

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

C

[Surface Water Lookup](#)

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

Roanoke

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

030101040203

[River Basin Lookup](#)

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: *

The project site includes an existing two-lane bridge with 12' travel lanes, 3.5' paved shoulders, and 4:1 side slopes on the approaches that crosses Country Line Creek. Vegetated areas within the project vicinity are primarily maintained roadside grasses and herbs, as well as mixed mesic hardwood forest. Adjacent land uses include rural residential, agriculture, and forested areas.

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:

0.28

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

(intermittent and perennial)

1,408

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

As identified in the March 2023 Categorical Exclusion (CE), the need for the proposed action is to replace a structurally deficient bridge. NCDOT Bridge Management Unit records indicate Bridge No. 160001 was built in 1970 and is considered structurally deficient due to a 2022 superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration standards. This bridge has priority maintenance for slope protection on both ends, and structural issues at bent No. 3.

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

The proposed project involves replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek in Caswell County in the Town of Yanceyville. Bartlett Yancey High School is located west of the bridge along with various commercial developments. The North Carolina Wildlife Resources Commission owns large tracts of land to the south and east of the bridge. The Caswell Shooting Range is located within that property. The proposed project length is 0.220 miles, and the proposed Bridge Length is 0.047 miles. The roadway width is 24', with two 12' lanes. Total shoulder width is 8', with 4' paved and 4' turfed. The proposed bridge clear roadway is 44', with two 12' lanes and 10' shoulders. Side slopes are NCDOT Arterial Design Side Slopes (ADSS) due to an Average Daily Traffic (ADT) greater than 2000. Current 2023 ADT is 8,525, and projected future ADT in 2043 is 10,025. There are 10% trucks, with Tractor Trailer Semi Trucks (TTST) at 6%, and Dual Axle Trucks at 4%. Design Speed V is 60 mph. Standard road and bridge building equipment such as trucks, dozers, and cranes will be used.

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): Adam Efird, Annie Welch, and Rebeckah Sims

Agency/Consultant Company: Moffatt & Nichol

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 [*]
2	Construction Access	T	Floodplain Pool	WA/WB	Yes	Both	0.020 (acres)

2g. Total Temporary Wetland Impact

0.020

2g. Total Permanent Wetland Impact

0.000

2g. Total Wetland Impact

0.020

2i. Comments:

Wetland impacts are due to hand clearing of vegetation needed within wetland WA/WB for construction access to the proposed bridge.

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 [*]	3h. Impact length [*]
S1	Bridge Construction	Permanent	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	63 (linear feet)
S2	Construction Access	Temporary	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	10 (linear feet)
S3	Bridge Construction	Temporary	Workpad/Causeway	Country Line Creek	Perennial	Both	25 Average (feet)	21 (linear feet)
S4	Outfall Construction	Permanent	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	6 (linear feet)
S5	Construction Access	Temporary	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	10 (linear feet)
S6	Detour Bridge	Temporary	Other	Country Line Creek	Perennial	Both	25 Average (feet)	37 (linear feet)

** 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:

69

3i. Total temporary stream impacts:

78

3i. Total stream and ditch impacts:

147

3j. Comments:

Temporary impacts total 0.13 acre. Additional permanent impact to Country Line Creek due to an interior bent being placed in the water totals 29 square feet of impact.

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 alignment is in the same location as the existing bridge, which avoids permanent impacts to the wetland WA/WB to the south of the project. The proposed detour bridge is aligned to the north of the existing bridge so as to avoid additional temporary and permanent impacts to wetland WA/WB.

The bridge span and pier locations were selected to minimize the amount of work that would be required in the creek while still being constructable and to reduce the number of bents located in the water from two to one. The proposed bridge does not utilize deck drains, and runoff drains into inlets that have outfalls at riprap pad outlets prior to discharging into Country Line Creek.

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

*NCDOT will adhere to Best Management Practices for Construction and Maintenance Activities.

*No staging of construction equipment or storage of construction supplies will be allowed in wetlands.

*No mechanized clearing in wetlands is proposed to reduce impacts to wetlands.

*Temporary access via causeways will be used for both removal of existing structures as well as construction of the new bridge.

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 only impact to wetlands is temporary hand clearing of vegetation, and all permanent impacts to streams are for bank stabilization or bent placement, which are activities that do not result in loss of waters, therefore don't require 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:

The project is located within the Roanoke River basin; to which no riparian buffer rules apply.

2. Stormwater Management Plan

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

☒ Yes ☐ No

Comments:

See attached Permit Drawings.

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, the proposed project would not stimulate additional growth, but could influence nearby land use.

4. Sewage Disposal (DWR Requirement)

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

☐ Yes ☐ No ☒ N/A

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

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

Raleigh

5d. Is another Federal agency involved? *

☒ Yes ☐ No ☐ Unknown

What Federal Agency is involved?

FHWA

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

☒ Yes ☐ No

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

USFWS Information for Planning and Consultation (IPaC)

FHWA is the lead federal agency for this project. As of 11/14/23, IPaC lists Roanoke logperch and Atlantic pigtoe within the project area. Tricolored bat is also listed as proposed endangered. The USFWS concurred with a biological conclusion of May Affect, Not Likely to Adversely Affect for the listed aquatic species on 2/28/22.

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? *

NOAA Fisheries EFH Mapper. <https://www.habitat.noaa.gov/apps/efhmapper/>

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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

☐ Yes ☒ No

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

See attached Archaeology Form, Historic Properties and Landscapes Form, and Tribal Coordination.

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 National Flood Hazzard Viewer: <https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd>

Miscellaneous

Comments

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

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

BR-0069 Caswell November 14 2023.pdf

15.81MB

[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:*

Erin K. Cheely



Signature*

A handwritten signature in black ink that reads "Erin K. Cheely". The signature is written in a cursive, flowing style. The first name "Erin" is written in a larger, more prominent script, followed by "K." and "Cheely". The signature is contained within a light gray rectangular box.

Date

11/14/2023

Permit Drawings

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>Highway Stormwater STORMWATER</p> </div> <div style="text-align: center;"> <p>North Carolina Department of Transportation</p> <p>Highway Stormwater Program</p> <p>STORMWATER MANAGEMENT PLAN</p> <p>FOR NCDOT PROJECTS</p> </div> <div style="text-align: center;">  </div> </div>									
(Version 3.00; Released August 2021)									
WBS Element:		TIP/Proj No:		County(ies):		Page 1 of 2			
General Project Information									
WBS Element:		67069.1.1		TIP Number:		BR-0069		Project Type: Bridge Replacement	
NCDOT Contact:		Galen Cail		Contractor / Designer:		Cameron Long, PE		Date: 9/11/2023	
		Address:				Address:			
		Hydraulics Unit				Moffatt & Nichol			
		1000 Birch Ridge Drive				4700 Falls of Neuse Rd, Suite 300			
		Phone:				Phone:			
		(919)707-6711				(919) 781-4626			
		Email:				Email:			
		gcail@ncdot				clong@moffattnichol.com			
City/Town:		Yanceyville		County(ies):		Caswell			
River Basin(s):		Roanoke		CAMA County?		No			
Wetlands within Project Limits?		Yes							
Project Description									
Project Length (lin. miles or feet):		0.27		Surrounding Land Use:		RURAL, AGRICULTURE, WOODS			
		Proposed Project		Existing Site					
Project Built-Up Area (ac.)		1.3 ac.		1.1 ac.					
Typical Cross Section Description:		THE PROPOSED ROADWAY WILL BE A TWO-WAY ALIGNMENT WITH 12' TRAVEL LANES, 4' PAVED SHOULDERS, AND VARYING SLOPES. THE PROPOSED BRIDGE HAS AN OUT TO OUT OF 47'-3" AND CLEAR ROADWAY OF 44'. THE BRIDGE WILL HAVE 12' TRAVEL LANES AND 10' PAVED SHOULDERS.				THE EXISTING ROADWAY IS A TWO-WAY ALIGNMENT WITH 12' TRAVEL LANES, 3.5' PAVED SHOULDER, AND 4:1 SLOPES. THE EXISTING BRIDGE HAS AN OUT TO OUT OF 43'.			
Annual Avg Daily Traffic (veh/hr/day):		Design/Future:		10,025		Year:		2043	
		Existing:		8,525		Year:		2023	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		<p>The project consists of the replacement of bridge #160001 in Caswell County. The existing bridge carries US-158/NC-86 over County Line Creek between US-158 and NC-62. The creek is called Country Line Creek on the vicinity map, the final survey file, and at the NCDEQ Surface Waters Classification website and is referring to the same stream. The proposed structure for bridge #160001 is 1@80', 1@90', 1@80' 54" Girders with 4'-0" deep caps. The proposed alignment is at the same location as the existing alignment. There are wetlands located within the project limits. The proposed detour alignment is located to the north and on the downstream side of the project. The detour bridge typical is two 11' travel lanes with 4' paved shoulders.</p> <p>STORMWATER CONTROLS: The proposed bridge does not utilize deck drains. Runoff from the bridge roadway and paved shoulders at the bridge approaches drains into inlets. The stormwater is then diffused at riprap pad outlets prior to discharging into County Line Creek. Shoulders will be paved. Bank Stabilization is planned to prevent erosion of the streambanks.</p> <p>MINIMIZATION: The detour bridge was shifted to the north avoiding impacts to the wetlands located south of the existing bridge and alignment. The bridge span and pier locations were selected to minimize the amount of work that would be required in the creek while still being constructable and to reduce the number of bents located in the creek from two to one.</p>							



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

(Version 3.00; Released August 2021)

FOR NCDOT PROJECTS

WBS Element: 67069.1.1

TIP/Proj No.: BR-0069

County(ies): Caswell

Page 2 of 2

General Project Information

Waterbody Information

Surface Water Body (1):	Country Line Creek	NCDWR Stream Index No.:	22-56-(3.7)
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:		
Other Stream Classification:			
Impairments:	None		
Aquatic T&E Species?	No	Comments:	
NRTR Stream ID:	Country Line Creek	Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)
(If yes, provide justification in the General Project Narrative)			

Surface Water Body (2):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?		Comments:	
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(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):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?		Comments:	
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(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)			

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0069	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67069.1.1	N/A	PE	

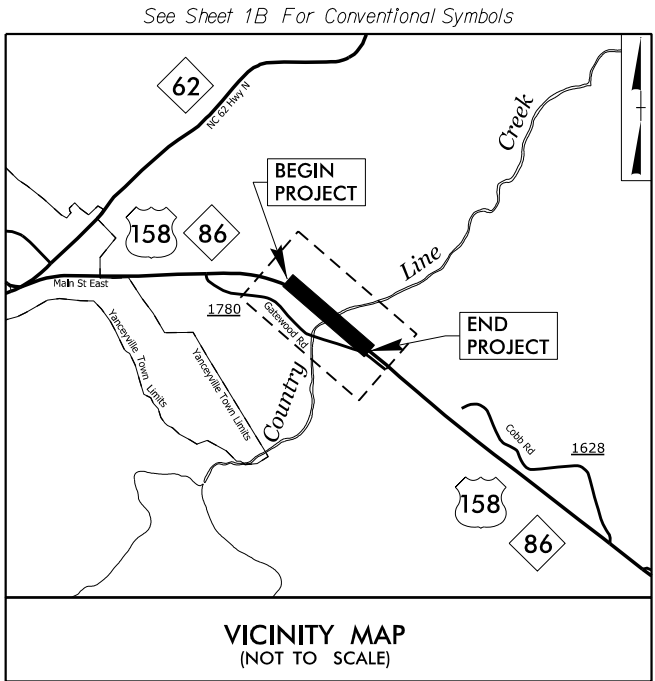
PERMIT DRAWING
SHEET 1 OF 9

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

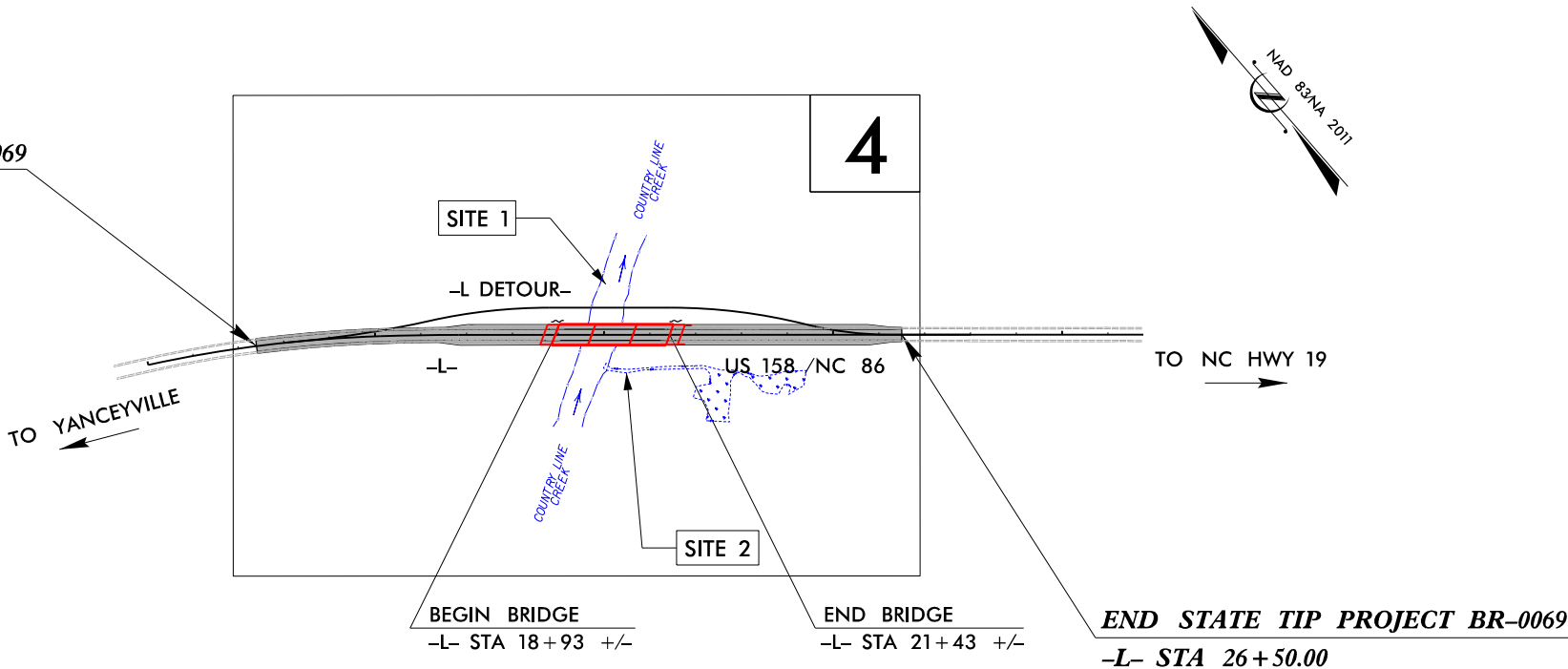
CASWELL COUNTY

LOCATION: BRIDGE NO.160001 OVER COUNTRY LINE CREEK ON
US 158 /NC 86
TYPE OF WORK: PAVING, GRADING, DRAINAGE, AND STRUCTURES

WETLAND AND SURFACE WATER IMPACTS PERMIT



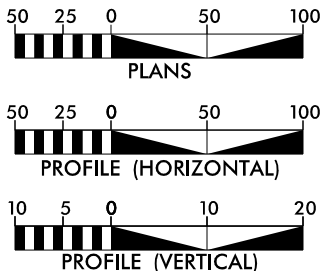
BEGIN STATE TIP PROJECT BR-0069
-L- STA 12+40.00



THIS IS CONTROLLED OF ACCESS PROJECT.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2023 = 8,525
ADT 2043 = 10,025
K = TBD %
D = TBD %
T = 10 % *
V = 60 MPH
* TTST = 6% DUAL 4%
FUNC CLASS =
PRINCIPAL RURAL ARTERIAL
-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0069 = 0.220
LENGTH STRUCTURE TIP PROJECT BR-0069 = 0.047
TOTAL LENGTH TIP PROJECT BR-0069 = 0.267

Prepared for NCDOT in the Office of:

moffatt & nichol
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4625 VOICE (919) 781-4863 FAX
NC License NO.: F-0105

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MAY 15, 2023

LETTING DATE:
FEBRUARY 20, 2024

TRENT HUFFMAN, P.E.
PROJECT ENGINEER

GRAY MODLIN, P.E.
PROJECT DESIGN ENGINEER

DAVID STUTTS, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

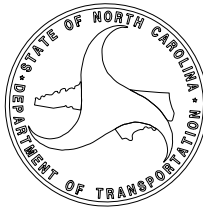
moffatt & nichol

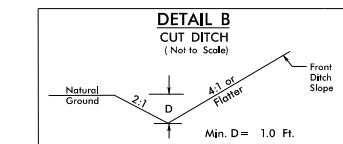
SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

moffatt & nichol

SIGNATURE: P.E.





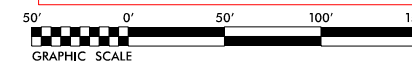
FROM STA.-LDET- 11+40 LT TO STA.-LDET- 13+47 LT

-LDET-

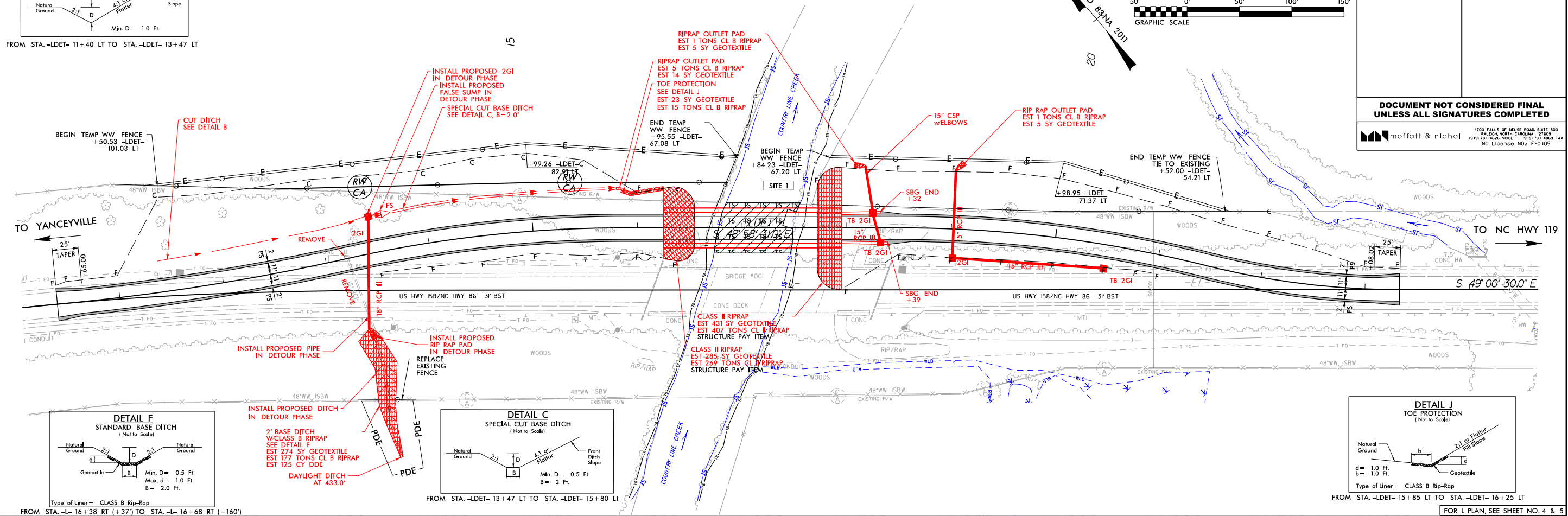


TEMPORARY SURFACE WATER IMPACTS

PERMIT DRAWING
SHEET 2 OF 9



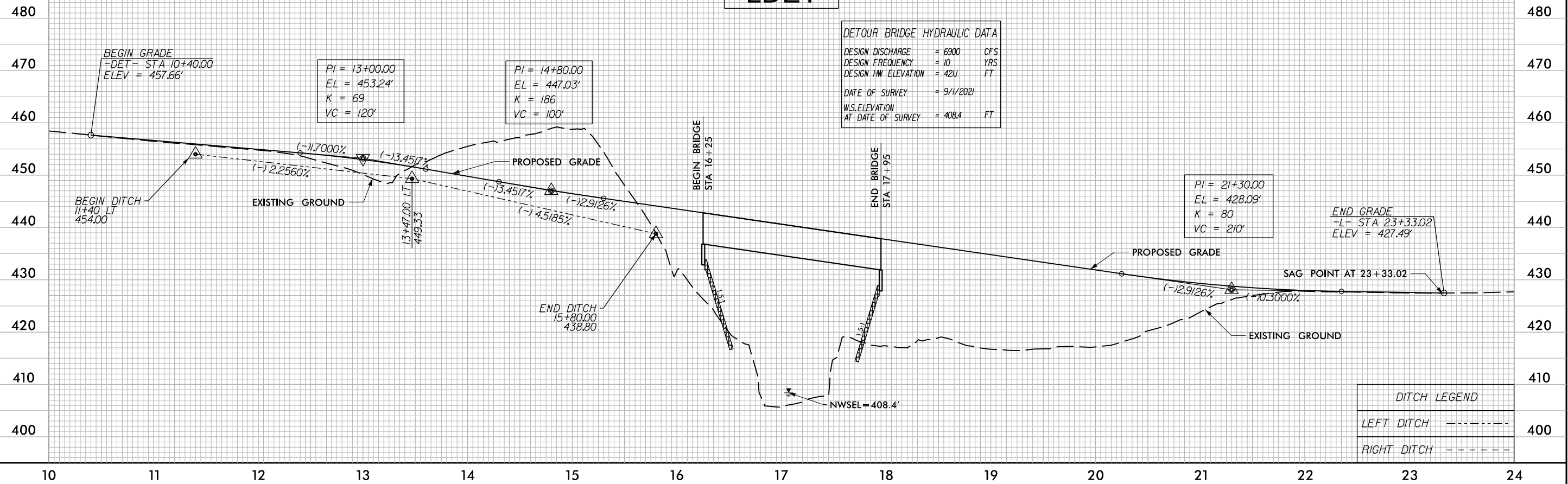
20



-LDET-

DETOUR BRIDGE HYDRAULIC DATA

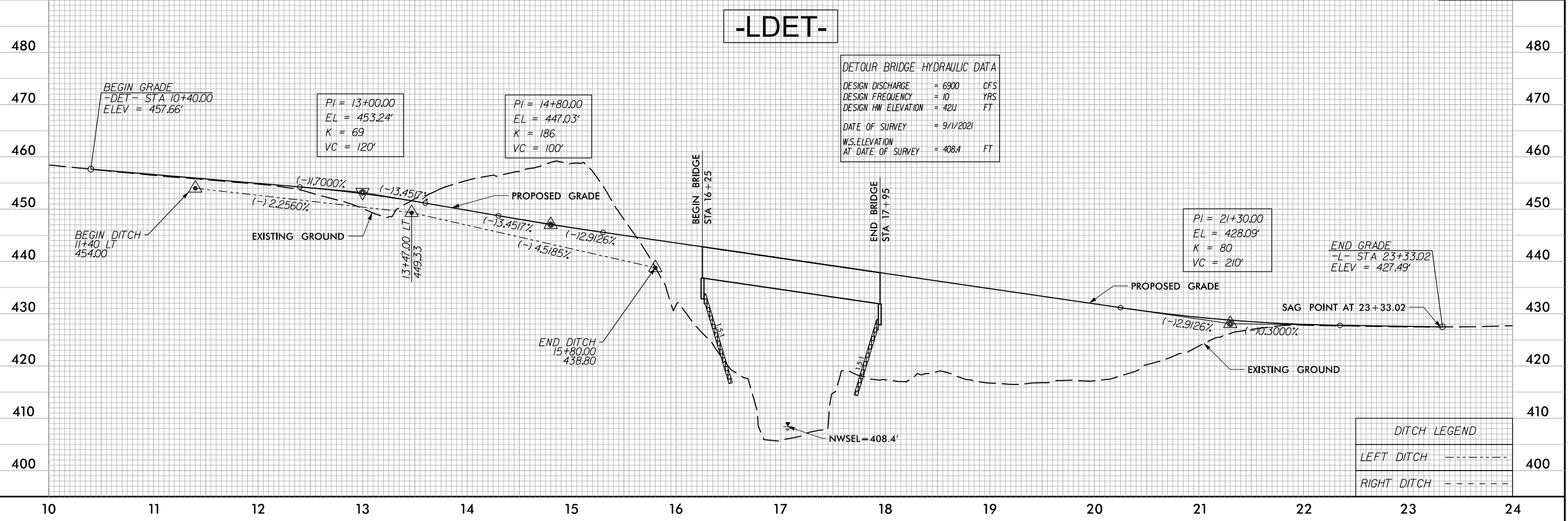
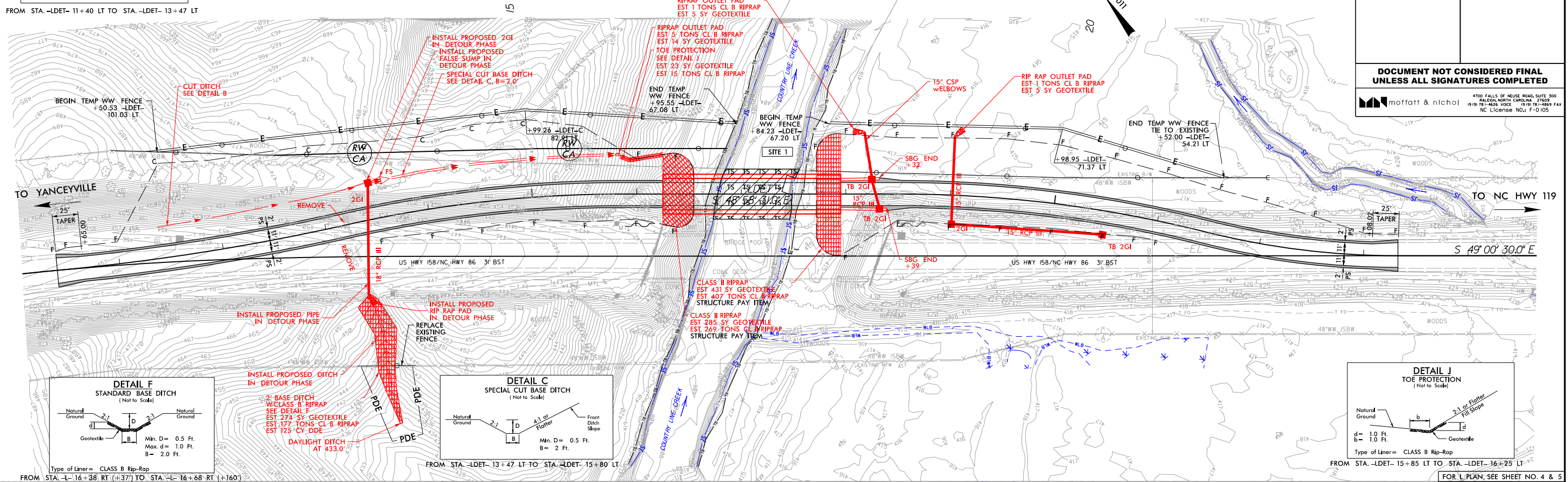
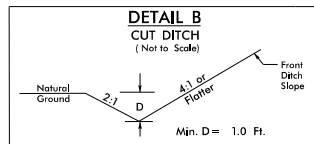
DESIGN DISCHARGE	=	6900	CFS
DESIGN FREQUENCY	=	10	YRS
DESIGN HW ELEVATION	=	421	FT
DATE OF SURVEY	=	9/1/2021	
W.S.ELEVATION AT DATE OF SURVEY	=	408.4	FT



DITCH LEGEND

LEFT DITCH -----

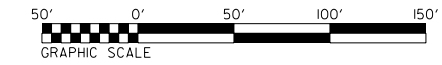
RIGHT DITCH - - - - -





8/17/99
9/14/2023
D:\RA\1001-109\BR-0069\Hydraulics\PERMITS\Environmental\PSH WET\BR-0069_Hyd.prm-wet_05.psh4-Con.dgn

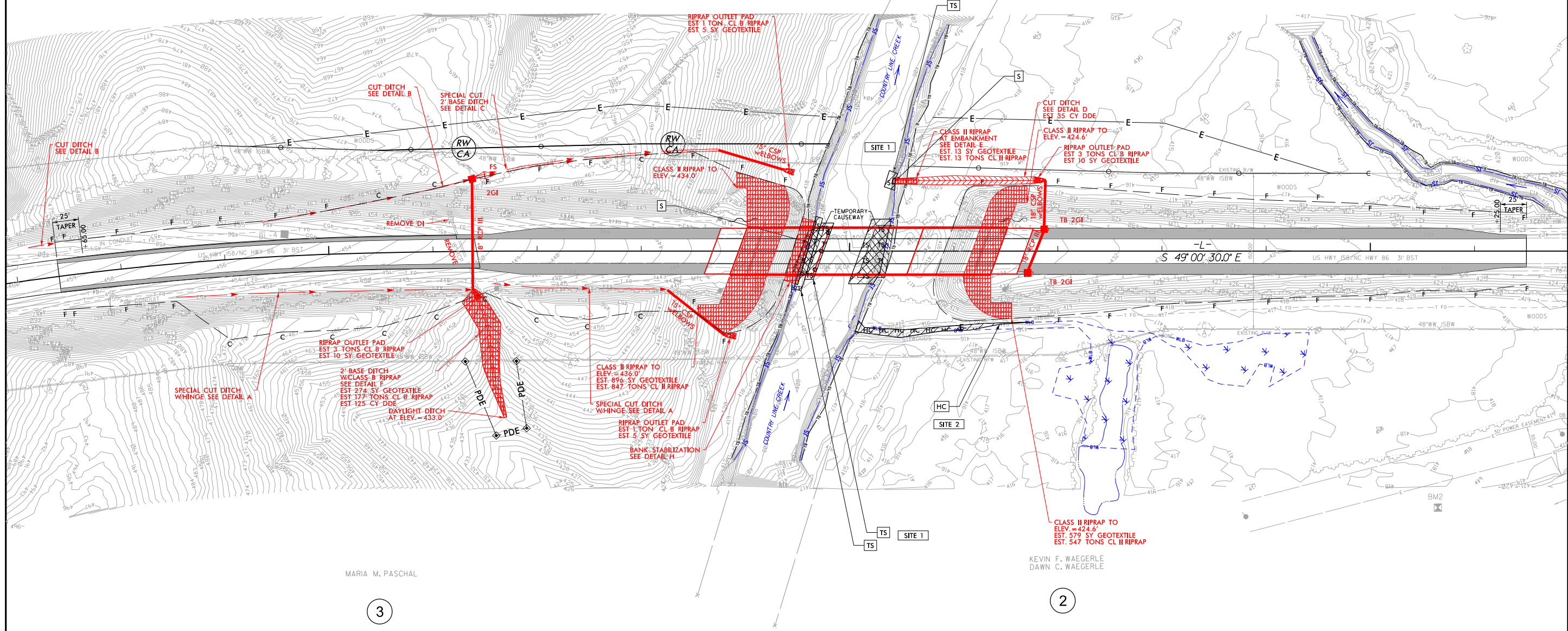
W. MAYNARD GREGORY REVOCABLE TRUST
OF 2014 DATED JANUARY 16, 2014



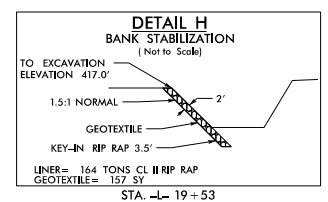
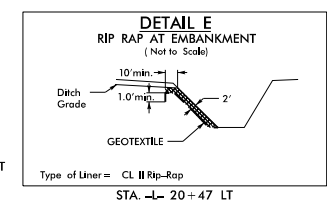
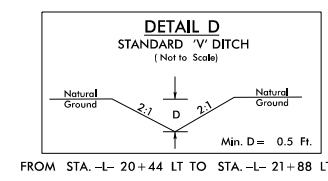
PERMIT DRAWING
SHEET 5 OF 9

KEVIN F. WAEGERLE
DAWN C. WAEGERLE

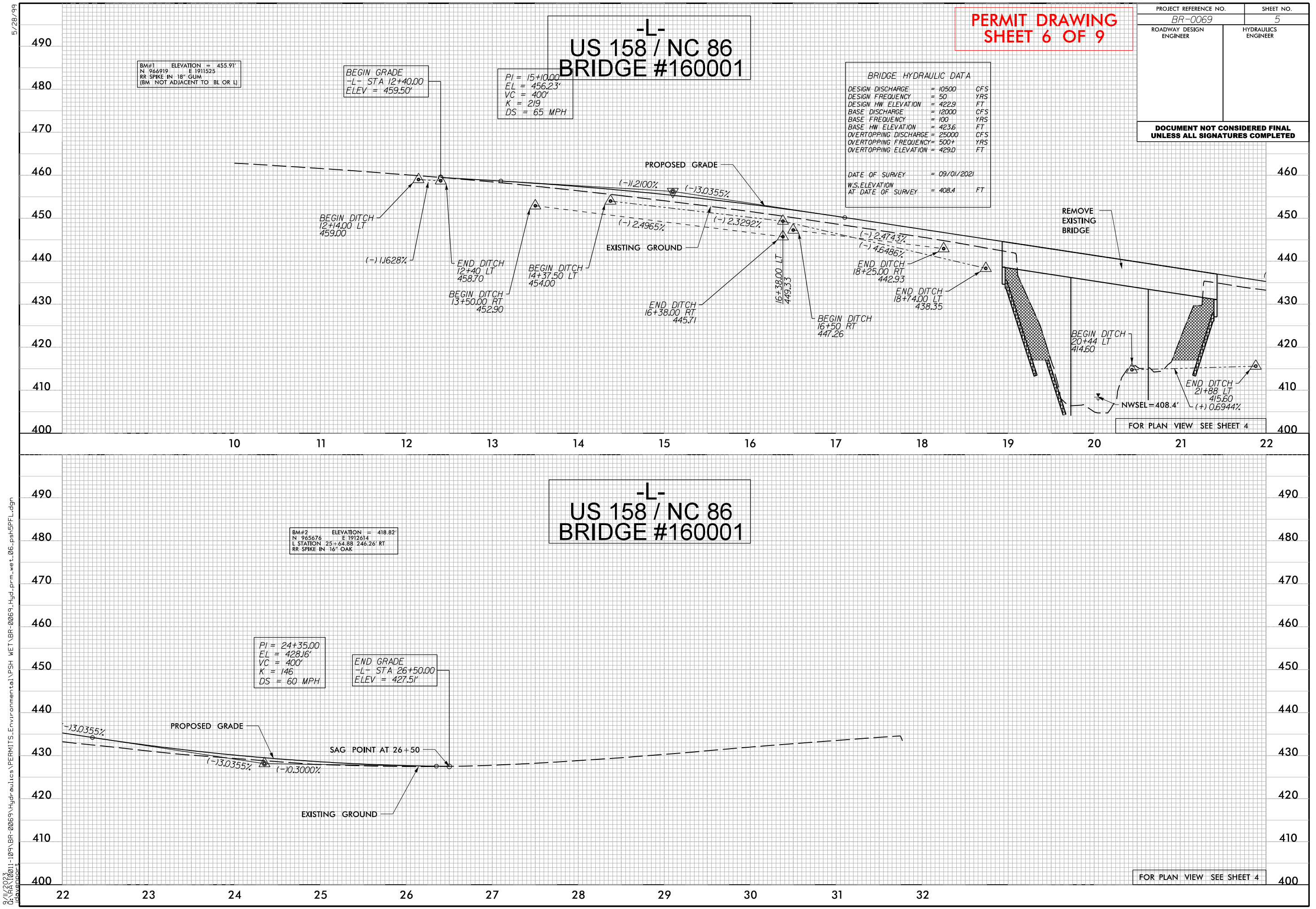
PROJECT REFERENCE NO.		SHEET NO.
BR-0069		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
moffatt & nichol		4700 FALLS OF NEUSE ROAD, SUITE 300 WAKEFORD, NORTH CAROLINA 27899 (919) 781-4626 VOICE (919) 781-4669 FAX NC License NO.: F-0105

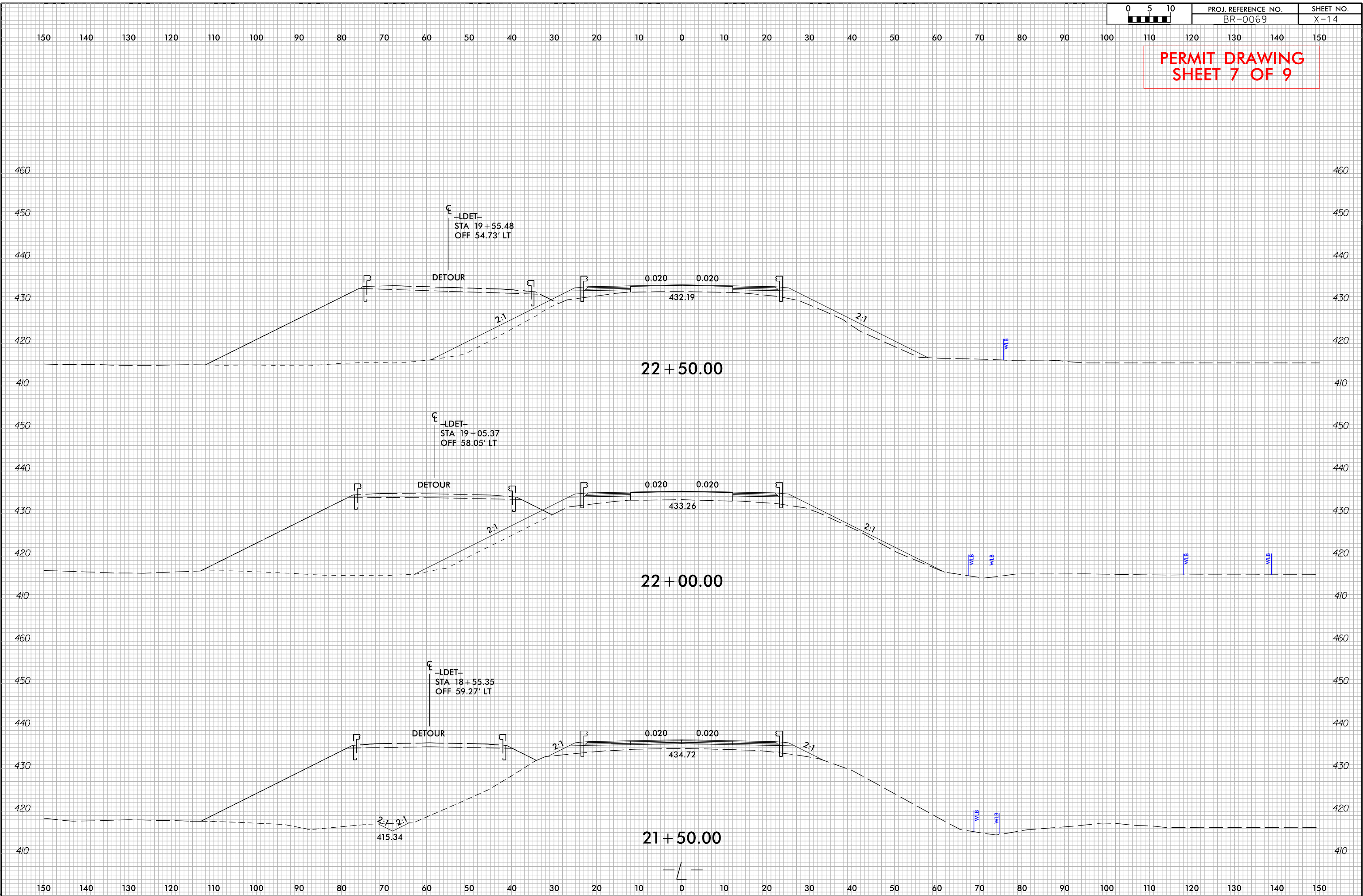


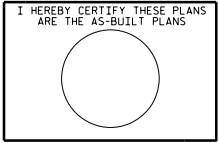
- HC HC HAND CLEARING (NON-GRUBBING)
- TS TS TEMPORARY SURFACE WATER IMPACTS
- S S SURFACE WATER IMPACTS



FOR -L- PROFILE, SEE SHEET NO. 5







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- 19+45 RT to 19+78 LT	Bank Stabilization						< 0.01	< 0.01	63	10	
1	-L- 19+57 RT to 20+40 LT	Temporary Causeway							0.05		21	
1	-L- 20+33 LT to 20+46 LT	Bank Stabilization						< 0.01	< 0.01	6	10	
1	-DET- 16+73RT to 17+56LT	Detour Bridge							0.08		37	
2	-L- 20+05 RT to 21+75 RT	Roadway Fill					0.02					
TOTALS*:							0.02	< 0.01	0.13	69	78	0

*Rounded totals are sum of actual impacts

NOTES:
 INTERIOR BENT - PERMANENT STREAM IMPACTS AREA = 29 SQUARE FEET

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 9/11/2023
 CASWELL COUNTY
 BR-0069
 67069.1.1
 SHEET 9 OF 9

Protected Species/ Section 7



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh ES Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726
February 28, 2022



Jerry Parker
NC Department of Transportation
P.O. Box 14996
Greensboro, North Carolina 27415

Dear Mr. Parker:

This letter is in response to your email of February 21, 2022 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation that the replacement of Bridge No. 1 on US 158 over Country Line Creek in Caswell County (STIP No. BR-0069) may affect, but is not likely to adversely affect the federally endangered Roanoke Logperch (*Percina rex*), federally endangered James Spiny mussel (*Parvaspina collina*), and federally threatened Atlantic Pigtoe (*Fusconaia masoni*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to the information provided, fish and mussel surveys were conducted in the project area on August 10 and 11, 2021. None of the listed species were observed. Based on the survey results and other available information, the Service concurs with your conclusion that the proposed action may affect, but is not likely to adversely affect the Roanoke Logperch, James Spiny mussel, and Atlantic Pigtoe. We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action. If you have any questions regarding our response, please contact Mr. Gary Jordan at gary_jordan@fws.gov.

Sincerely,

Gary Jordan for

Pete Benjamin
Field Supervisor

Electronic copy:

David Bailey, USACE, Wake Forest, NC
Travis Wilson, NCWRC, Creedmoor, NC

Archaeology

18-09-0045



**NO NATIONAL REGISTER OF HISTORIC PLACES
ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES
PRESENT 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-0069** County: **Caswell**
 WBS No: **67069.1.1** Document: **MCC**
 F.A. No: **na** Funding: ☒ State ☐ Federal

Federal Permit Required? ☒ Yes ☐ No Permit Type: ?

Project Description:

The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 1 on US 158/NC 86 over Country Line Creek east of Yanceyville. No preliminary designs were available at the time of the archaeological investigations, but a study area was submitted with the request for screening. This study area generally consists of a corridor roughly 2000 feet long and 400 feet wide. For the purposes of the archaeological survey, this study area will be considered to be the area of potential effects (APE). Thus, the APE for the proposed project is estimated to encompass 18.3 acres (nearly 7.41 hectares).

SUMMARY OF ARCHAEOLOGICAL FINDINGS

The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:

- ☒ There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- ☐ No subsurface archaeological investigations were required for this project.
- ☒ Subsurface investigations did not reveal the presence of any archaeological resources.
- ☐ Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- ☐ All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☐ Previous Survey Info ☒ Photos

Signed:

August 1, 2019

NCDOT ARCHAEOLOGIST

Date

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

On October 10, 2018, NCDOT archaeologist, Shane Petersen, recommended further archaeological investigation of the proposed APE based on topographic and soil mapping that suggested the possibility for microenvironmental conditions suitable for the preservation of archaeological deposits in some portions of the project area. An archaeological reconnaissance survey was recommended that would visually inspect all portions of the APE to determine which areas might retain a higher probability for archaeological site location. Those areas were then to be subjected to intensive subsurface investigation.

Prior to initiating the archaeological field investigations, researchers with Johnson, Mirmiran, and Thompson, Inc. (JMT), conducted background archaeological research at the North Carolina Office of State Archaeology in Raleigh (OSA). According to the records at OSA one archaeological site, 31CS68, a prehistoric site that was not considered to be eligible for inclusion on the National Register of Historic Places (NRHP), was located within a 1-mile radius of the proposed project.

The archaeological Survey for Bridge No. 1 in Caswell County was undertaken as part of a series of investigations undertaken by archaeologists with JMT from May 24 – June 1, 2019. Shovel tests were excavated at intervals of 30 meters. Areas that exhibited disturbance, severe slope, inundation, or were marked during wetland delineations were not shovel tested. A significant portion of the APEs were not excavated due to steeply sloped landforms, areas of severe erosion and soil deflation, residential development, and low-lying wet areas. All areas not subjected to subsurface testing were visually inspected and pedestrian surveyed.

The following description of the results of the archaeological survey have been adapted from JMT's archaeological report (Minford 2019), which is on file with the Environmental Analysis Unit at NCDOT.

The study area for Bridge No. 1 measures 610m in length and 122m wide along US 158/NC 86 over Country Line Creek. A total of 27 shovel test locations were investigated, of which, all were negative. Portions of the APE were not shovel tested due predominately to severe slope or low-lying wet areas. A large portion of the APE contained either severe slope (approximately 3 acres) or was low lying and wet (approximately 6 acres). The remains of a cinder block structure were noted in the northeastern quadrant of the APE. A judgmental shovel test was excavated in this area but was designated 'negative' for archaeological deposits as a result of nothing more than modern trash recovered within the first stratum. This structure is interpreted as modern in nature. Soils observed within the western portion of the APE were shallow and eroded due to severe slope. Soils recorded in the eastern portion of the APE were deeper but contained hydric soils. A typical soil profile within the latter portion of the APE is:

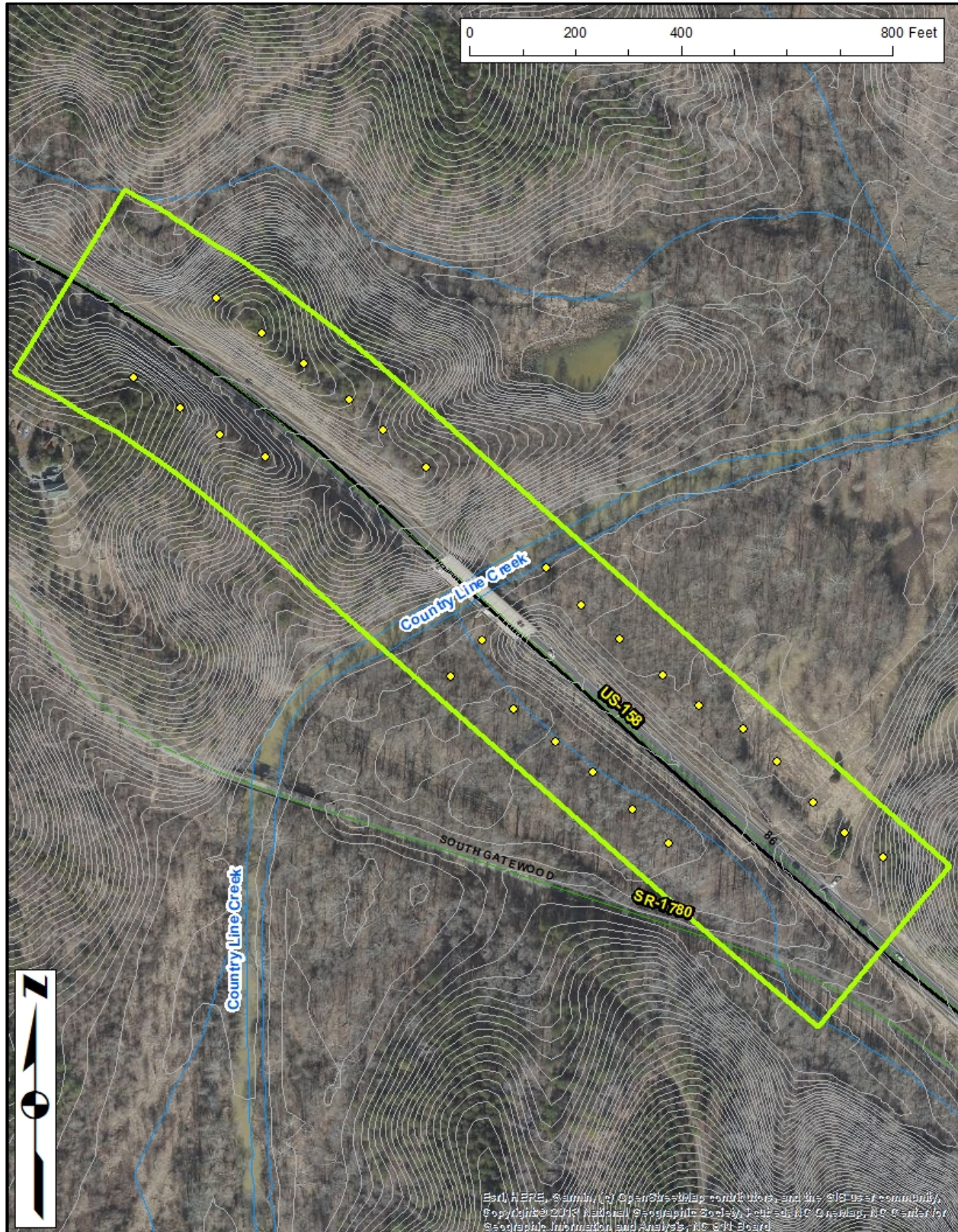
Stratum I (0 – 40 cm): 10YR 4/3 brown sandy loam
Stratum II (40 - 50 cm): 10YR 4/3 brown hydric sand

No archaeological sites were identified within the APE, and no further work is recommended for this area as currently designed.

References Cited:

Minford, L. and C. Herrnsstadt

2019 *Phase I Archaeological Survey, Proposed Replacement of Bridge Nos. 1, 7, & 61 in Caswell County; and Bridge Nos. 35, 170, 176, 178, & 183 in Rockingham County*. Ms. on file, Environmental Analysis Unit, North Carolina Department of Transportation, Raleigh.



Aerial photograph with 2-foot contours depicting the APE for the proposed replacement of Bridge No. 1 on US 158 over Country Line Creek; note the locations of subsurface tests (yellow dots).



Photograph of low-lying wet area within Bridge No. 1 APE, facing Northwest (Minford and Herrnstadt 2019: 41).



Photograph of Cinder block structure located in northeastern corner of Bridge 1 APE (Minford and Herrnstadt 2019: 42).

"NO NATIONAL REGISTER ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT"
form for the Amended Minor Transportation Projects as Qualified in the 2007 Programmatic Agreement.

Historic Architecture and Landscapes

18-09-0045



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-0069	County:	Caswell
WBS No.:	67069.1.1	Document Type:	MCC
Fed. Aid No:		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. 1 on US 158/NC 86 over County Line Creek near Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE).

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of project area on HPOWeb GIS was conducted in November 2018. There are no existing NR, SL, DE, LD or SS properties in the project area. Constructed in 1970, Bridge No.1 does not meet the NR criteria consideration for exceptional importance for properties less than 50 years of age. There do not appear to be any significant historic architectural resources within the project area, therefore no further survey is 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 GIS data, Google StreetView and Caswell County property records are considered valid tools for the purposes of determining the likelihood of historic resources.

SUPPORT DOCUMENTATION

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



APE Map (Source: HPOWeb, November 2018)



#1 Bridge No. 1: Google StreetView

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- NO SURVEY REQUIRED

Mary Pope Furr

11/5//2018

NCDOT Architectural Historian

Date

Tribal Coordination

[External] RE: NCDOT Projects BR-0060, BR-0069, & BR-0097 - Project Study Letters

Kaleigh Pollak <Kaleigh@monacannation.com>

Mon 8/9/2021 4:55 PM

To: Peterson, Tierre R <trpeterson@ncdot.gov>

Cc: Tribal Office <TribalOffice@monacannation.com>

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam](#).

Good Afternoon,

Thank you for contacting us regarding the proposed projects.

The Monacan Indian Nation is a federally recognized sovereign tribe, headquartered on Bear Mountain in Amherst County. Citizens of the Nation are descended from Virginia and North Carolina Eastern Siouan cultural and linguistic groups, and our ancestral territory includes Virginia west of the fall line of the rivers, sections of southeastern West Virginia, and portions of northern North Carolina. At this time, the active Monacan consultation areas include:

Virginia: Albemarle, Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Bland, Buchanan, Buckingham, Campbell, Carroll, Charlotte, Clarke, Craig, Culpepper, Cumberland, Dickenson, Floyd, Fluvanna, Franklin, Frederick, Giles, Goochland, Grayson, Greene, Halifax, Henry, Highland, Lee, Loudoun, Louisa, Madison, Mecklenburg, Montgomery, Nelson, Orange, Page, Patrick, Pittsylvania, Powhatan, Prince Edward, Pulaski, Rappahannock, Roanoke, Rockbridge, Rockingham, Russell, Scott, Shenandoah, Smyth, Tazewell, Warren, Washington, Wise, and Wythe Counties, and all contiguous cities.

West Virginia: Greenbrier, Mercer, Monroe, Pendleton, Pocahontas, and Summers Counties.

North Carolina: Alamance, Caswell, Granville, Orange, Person, Rockingham, Vance, and Warren Counties.

At this time, the Nation does not wish to actively participate in this consultation project, because:

	This project is outside our ancestral territory
X	The project's impacts are anticipated to be minimal
	The project is more closely related to _____, which should be contacted to participate in consultation
	The tribal office does not currently have the capacity to participate in this project
	Other:

However, the Nation requests to be contacted if:

- Sites associated with native history may be impacted by this project;
- Adverse effects associated with this project are identified;
- Human remains are encountered during this project;
- Unanticipated native cultural remains are encountered during this project;
- Other tribes consulting on this project cease consultation; or
- The project size or scope becomes larger or more potentially destructive than currently described.

Please do not make any assumptions about future consultation interests based on this decision, as priorities and information may change. We request that you send any future consultation communications in electronic form to Kaleigh@MonacanNation.com. We appreciate your outreach to the Monacan Indian Nation and look forward to working with you in the future.

Thank you,

Kaleigh Pollak
Program Manager
Monacan Indian Nation
O: (434) 363-4864
C: (434) 473-1029
111 Highview Drive
Madison Heights, VA 24572



NOTICE OF CONFIDENTIALITY

This e-mail message and its attachments (if any) are intended solely for the use of the addressee hereof. In addition, this message and the attachments (if any) may contain information that is confidential, privileged and exempt from disclosure under applicable law. Unless you are the addressee (or authorized to receive for the addressee), you are prohibited from reading, disclosing, reproducing, distributing, disseminating or otherwise using this transmission. Delivery of this message to any person other than the intended recipient is not intended to waive any right or privilege. If you have received this message in error, please promptly notify the sender by reply e-mail and immediately delete this message from your system. Thank you.

From: Tribal Office <TribalOffice@monacannation.com>
Sent: Friday, August 6, 2021 12:57 PM
To: Kaleigh Pollak <Kaleigh@monacannation.com>
Subject: FW: NCDOT Projects BR-0060, BR-0069, & BR-0097 - Project Study Letters

From: Peterson, Tierre R <trpeterson@ncdot.gov>
Sent: Friday, August 6, 2021 12:52 PM
To: Tribal Office <TribalOffice@monacannation.com>
Cc: Bowles, Jacquelyn K <jkbowles@ncdot.gov>; Stutts, David S <dstutts@ncdot.gov>; Demery, Dustin A <dademery@ncdot.gov>; Welch, Annie <awelch@moffattnichol.com>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>; omojojadavwe.morales@ncdot.gov
Subject: NCDOT Projects BR-0060, BR-0069, & BR-0097 - Project Study Letters

Ms. Kaleigh Pollak,

Please see the attached project study letter for NCDOT Projects BR-0060, BR-0069, and BR-0097
If you have any questions or comments, please let us know by September 6, 2021.

Sincerely,

Tierre Peterson, PE
Team Leader - PEF Coordination
Structures Management Unit

919 707 6488 office
trpeterson@ncdot.gov

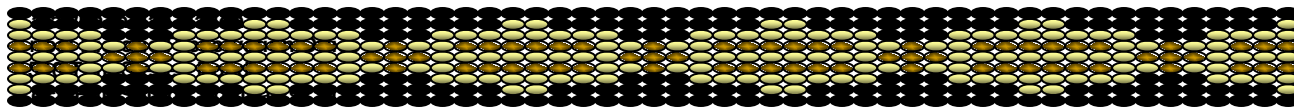
1000 Birch Ridge Drive
Raleigh, NC 27610



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North Carolina Public Records Law and may be disclosed to third parties.*

[Facebook](#) [Twitter](#) [YouTube](#)

Email correspondence to and from this sender is subject to the N.C. Public Records Law and may be disclosed to third parties.



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

September 10, 2021

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

Re. THPO #	TCNS #	Project Description
2021-193-165		BR-0060, BR-0069 and BR-0097

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 Caitlin.Rogers@catawba.com.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer

NEPA/SEPA Document

Type I or II Categorical Exclusion Action Classification Form

TIP Project No.	BR-0069
WBS Element	67069.1.1
Federal Project No.	N/A

A. Project Description:

The proposed project involves replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek in Caswell County in the Town of Yanceyville. Bartlett Yancey High School is located west of the bridge, along with various commercial developments. The North Carolina Wildlife Resources Commission owns large tracts of land to the south and east of the bridge. The Caswell Shooting Range is located within that property. The proposed project length is 0.220 miles, and the proposed Bridge Length is 0.047 miles. The roadway width is 24', with two 12' lanes. Total shoulder width is 8', with 4' paved and 4' turfed. The proposed bridge clear roadway is 44', with two 12' lanes and 10' shoulders. Side slopes are NCDOT Arterial Design Side Slopes (ADSS) due to an Average Daily Traffic (ADT) greater than 2000.

Current 2023 ADT is 8,525, and projected future ADT in 2043 is 10,025. There are 10% trucks, with Tractor Trailer Semi Trucks (TTST) at 6%, and Dual Axle Trucks at 4%. Design Speed V is 60 mph.

Functional Classification is listed as "Rural Arterial – Regional Tier"

No anticipated design exceptions

B. Description of Need and Purpose:

The purpose of the proposed project is to remove a structurally deficient bridge. NCDOT Bridge Management Unit records indicate Bridge No. 160001 was built in 1970 and is considered structurally deficient due to a 2022 superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration standards. This bridge has priority maintenance for slope protection on both ends, and structural issues at bent No. 3.

C. Categorical Exclusion Action Classification:

Type I(A) - Ground Disturbing Action

D. Proposed Improvements:

28. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e)(1-6).

E. Special Project Information:

Costs:

Type	Costs 2022
Construction	\$6,900,000
Right-of-Way	\$118,700
Utilities	\$56,278
Total	\$7,074,978

Alternative analysis (if any):**Alternatives Evaluation:**

Alternative 1 was chosen for this project, placing the on-site detour North of the proposed alignment. There is a small area of wetlands on the south side. Additionally, providing a detour on the north side results in significantly better detour roadway horizontal geometry.

No Build – The no build alternative would result in eventually closing the road, which is unacceptable given the volume of traffic served by U.S. 158/N.C. 86.

Rehabilitation – The existing bridge was constructed in 1970 and is reaching the end of its useful life. Rehabilitation would only provide a temporary solution to the structural deficiency of the bridge.

Offsite Detour - This is a US/NC route and an offsite detour route would need to provide similar lane and shoulder widths, and there is no suitable offsite detour available in this area.

Public Involvement:

A project newsletter was sent on 07/05/2022 to 51 adjacent or nearby affected property owners on this project. Property owners were invited to comment. No comments have been received to date.

Tribal Outreach was made to the Catawba and Monacan Tribal Nations during the planning process. A response was received from the Catawba Nation stating, *“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.”* We received no response from the Monacan Nation.

Natural Resources:

A biological conclusion of “May Affect, Not Likely to Adversely Affect” was determined for the James spinymussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

Tricolored Bat – Since the completion of the NRTR, the tricolored bat (*Perimyotis subflavus*) has been added as “Proposed Endangered” to the list of protected species for this project. NCDOT will ensure compliance with the Endangered Species Act for tricolored bat (and all protected species) for the project.

Bicycle and Pedestrian

A response letter from the Integrated Mobility Division in August of 2021 noted, “A P6.0 Complete Streets Project Sheet was submitted with this review request and indicated that no facilities for pedestrians, bicycles, or public transportation will be evaluated because there are no existing or planned facilities in the project study area. Bridges are typically built as long-term investments. Future transportation modal and land use should be considered when designed as it can be difficult to add additional facilities after initial construction. Bridges should be designed to accommodate all foreseeable users based on current and anticipated needs. The current AADT of US 158/NC 86 in the project area is 7,300 vehicles per day and the speed limit is 55 mph. Based on the FHWA Bikeway Selection Guide, an **8’ paved shoulder should be considered** in the event of future planned bicycle facilities along US 158/NC 86. There is not expected to be a significant amount of pedestrian traffic along this section of US 158/NC 86 so pedestrian facilities are not required.”

F. Project Impact Criteria Checklists:

F2. Ground Disturbing Actions – Type I (Appendix A) & Type II (Appendix B)				
<p>Proposed improvement(s) that fit Type I Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix A) including 2, 3, 6, 7, 9, 12, 18, 21, 22 (ground disturbing), 23, 24, 25, 26, 27, 28, &/or 30; &/or Type II Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix B) answer the project impact threshold questions (below) and questions 8 – 31.</p> <ul style="list-style-type: none"> <i>If any question 1-7 is checked "Yes" then NCDOT certification for FHWA approval is required.</i> <i>If any question 8-31 is checked "Yes" then additional information will be required for those questions in Section G.</i> 				
<u>PROJECT IMPACT THRESHOLDS</u> (FHWA signature required if any of the questions 1-7 are marked "Yes".)			Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Does the project require an Individual Section 4(f) approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any question 8-31 is checked "Yes" then additional information will be required for those questions in Section G.				
<u>Other Considerations</u>			Yes	No
8	Is an Endangered Species Act (ESA) determination unresolved or is the project covered by a Programmatic Agreement under Section 7?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9	Is the project located in anadromous fish spawning waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11	Does the project impact Waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other Considerations for Type I and II Ground Disturbing Actions (continued)</u>		Yes	No
14	Does the project include a Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a No Effect, including archaeological remains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control or the modification or construction of an interchange on an interstate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP, and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT Noise Policy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F (ONLY for questions marked 'Yes'):

Response to Question 1 - Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?

Completed - A biological conclusion of "May Affect, Not Likely to Adversely Affect" was determined for the James spinymussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

Since the completion of the NRTR, the tricolored bat (*Perimyotis subflavus*) has been added as "Proposed Endangered" to the list of protected species for this project. NCDOT will ensure compliance with the Endangered Species Act for tricolored bat (and all protected species) for the project. Concurrence for this species will be resolved prior to permitting

Response to Question 16 - Floodplain:

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the 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.

The NCDOT Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine 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).

H. Project Commitments:

NCDOT PROJECT COMMITMENTS

TIP Project No. **BR-0069**
Replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek,
in Caswell County
Federal Aid Project No. N/A
WBS Element 67069.1.1

ESA federally protected species within the Study Area

Completed - A biological conclusion of "May Affect, Not Likely to Adversely Affect" was determined for the James spiny mussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

FEMA Floodplains and Floodways (Division 7 Construction, NCDOT SMU)

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the 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.


Floodplain Mapping Coordination (NCDOT Hydraulic Design Unit)

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of 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)

I. Categorical Exclusion Approval:

TIP Project No.	BR-0069
WBS Element	67069.1.1
Federal Project No.	N/A

Prepared By:

3/13/2023	DocuSigned by: 
Date	Marc L Hamel M&N Project Manager

Prepared For:

Jacquelyn Bowles, PE, Engineer III, NCDOT Structures
Management Unit

Reviewed By:

3/13/2023	DocuSigned by: 
Date	John Jamison, Western Regional Team Lead Policy Unit NCDOT Environmental Policy Unit

**Approved**

- If NO grey boxes are checked in Section F (pages 2 and 3), NCDOT approves the Type I or Type II Categorical Exclusion.

**Certified**

- If ANY grey boxes are checked in Section F (pages 2 and 3), NCDOT certifies the Type I or Type II Categorical Exclusion for FHWA approval.
- If classified as Type III Categorical Exclusion.

3/13/2023	DocuSigned by: 
Date	David Stutts, PE – PEF / Program Manager, SMU North Carolina Department of Transportation

FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

N/A

Date	for John F. Sullivan, III, PE, Division Administrator Federal Highway Administration
------	-----------------------------------------------------------------------------------------

Note: Prior to ROW or Construction authorization, a consultation may be required (please see Section VII of the NCDOT-FHWA CE Programmatic Agreement for more details).

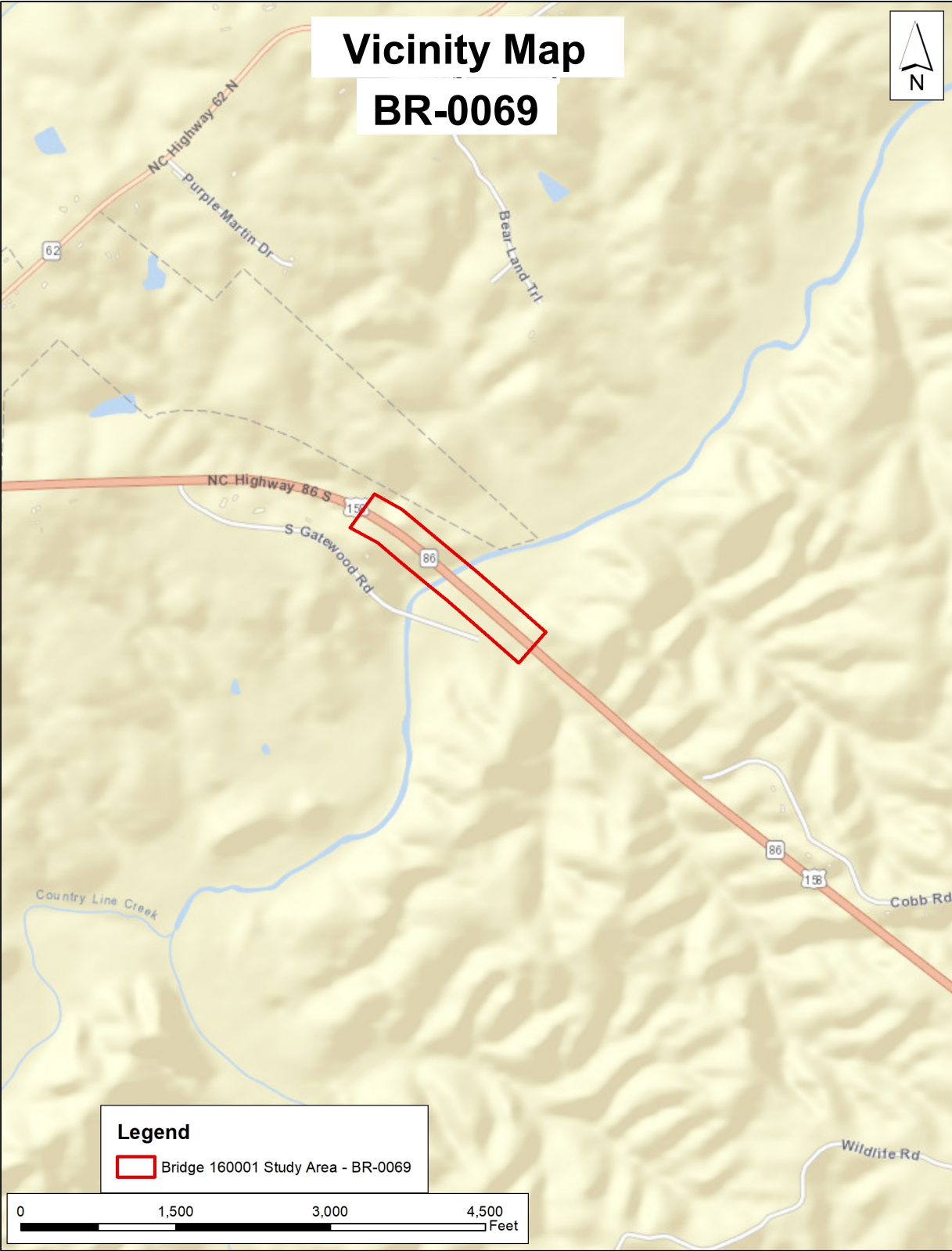


Figure 1: Vicinity Map



Figure 2: Project Study Area Map



Figure 3: Jurisdictional Features Present Map

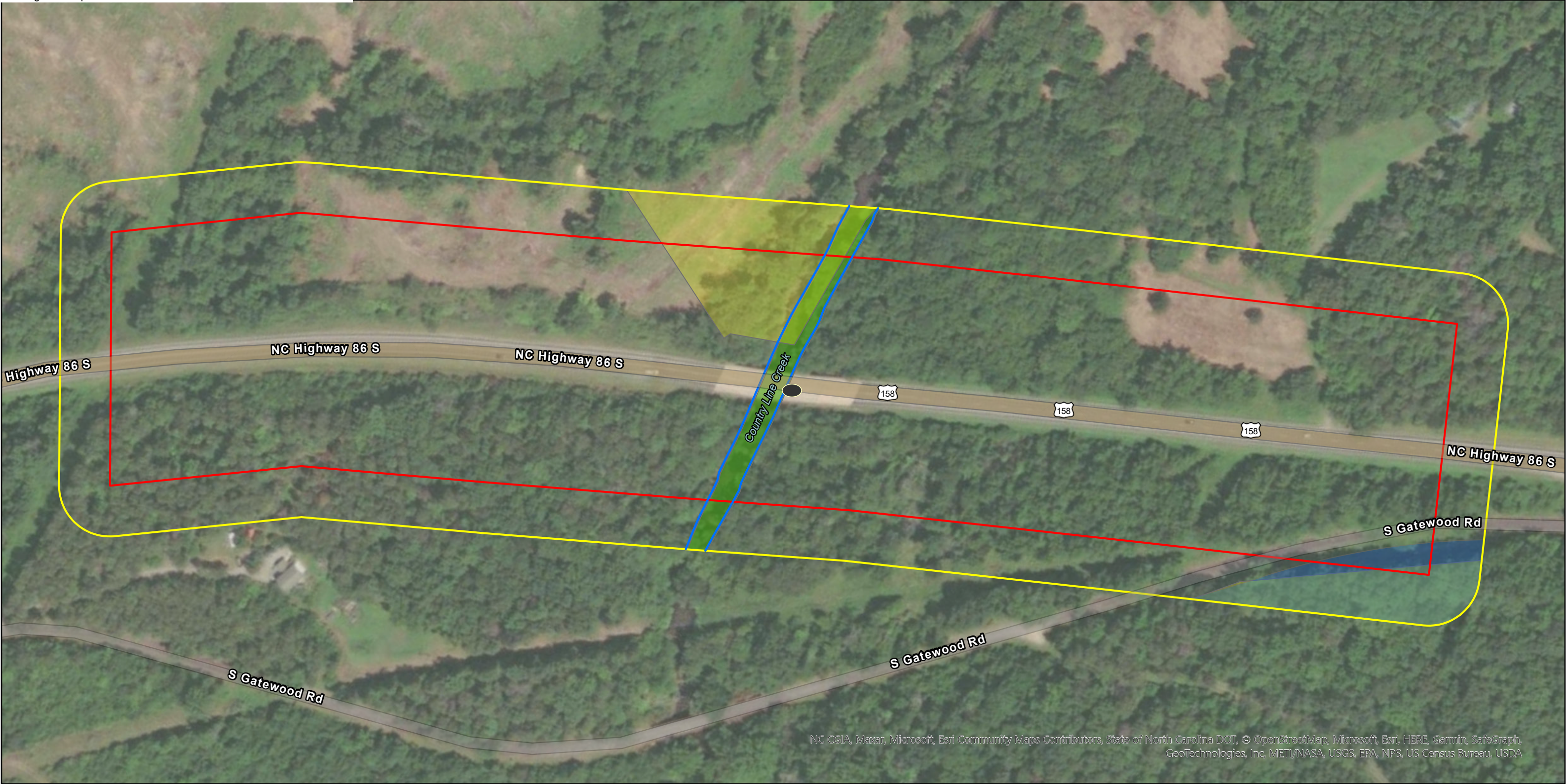


Figure 4: NC ATLAS Screening Map

- ATLAS Screening Area
- BR-0069 Study Area
- Bat Bridge Habitat: High Probability
- Water Classifications *See Note 1
- Land Classifications *See Note 2
- NC Natural Heritage Natural Areas
- Representational Rating, Collective Rating
- R2 (Very High), C3 (High)
- R2 (Very High), C4 (Moderate)

Note 1, All items with this symbology have the following characteristics:
 NC Surface Water Quality Classification C: Waters protected for uses such as aquatic life propagation, survival and maintenance of biological integrity (including fishin and fish), wildlife, secondary contact recreation, and agriculture. Secondary contact recreation means wading, boating, other uses not involving human body contact with water, and activities involving human body contact with water where such activities take place on an infrequent, unorganized, or incidental basis.
 IR Categories:
 4t - Fish Tissue Mercury (Nar, FC, NC), Exceeding Criteria, 2008
 1 - Benthos Excellent (Nar, AL, FW), Meeting Criteria

Note 2, All items with this symbology have the following characteristics:
 USGS Protected Areas - NC Wildlife Resource Commission, Caswell Game Land
 NC Natural Heritage Program Managed Area - Managed for Biodiversity, Disturbance Events Suppressed

0 100 200 400 Feet

Complete Study Area:
 ATLAS IPaC Ranges: Roanoke Logperch, Endangered Atlantic Pigtoe, Proposed Threatened Tricolored Bat, Proposed Endangered NC Jordan Lake Watershed Boundary
 NC DEQ Major Basin: Roanoke

18-04-0007



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-0069** County: **Caswell**
 WBS No: **67069.1.1** Document: **MCC**
 F.A. No: **na** Funding: ☒ State ☐ Federal
 Federal Permit Required? ☒ Yes ☐ No Permit Type: **?**

Project Description: The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 1 on US 158/NC 86 over Country Line Creek east of Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE). Thus, the APE for the proposed project is estimated to encompass 18.3 acres (nearly 7.41 hectares).

SUMMARY OF ARCHAEOLOGICAL RESOURCES REVIEW: ***SURVEY REQUIRED***

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

The review of the site maps and files archived at the North Carolina Office of State Archaeology (OSA) was conducted on September 20, 2018. No previously identified archaeological sites are recorded within the APE as currently proposed, nor have any sites been recorded within a .5-radius of the current APE. An examination of the data presented on the North Carolina State Historic Preservation Office HPOWEB GIS Service (<http://gis.ncdcr.gov/hpoweb/>) reveals no recorded historic properties within the same radius, nor are any known cemeteries in the vicinity.

An examination of soils in Caswell County presented on the National Resources Conservation Service Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) indicates the following soil types fall within the delineated APE: Codorus loam, 0 to 2 percent slopes, frequently flooded (CsA); Fairview sandy clay loam, 8 to 15 percent slopes, moderately eroded (FbC2); Rhodhiss sandy loam, 8 to 15 percent slopes (RhC); Rhodhiss sandy loam, 25 to 45 percent slopes (RhE); and Spriggs-Mocksville complex, 25 to 45 percent slopes (SkE).

While portions of the proposed study area clearly are significantly sloped or are subject to flooding, there are a number of landforms that may exhibit a higher potential for historic or prehistoric occupation. A reconnaissance investigation of the APE to determine areas where subsurface testing is appropriate, followed by that additional investigation is recommended.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☐ Previous Survey Info ☐ Photos ☐ Correspondence
☒ Other: soil map.

18-04-0007

FINDING BY NCDOT ARCHAEOLOGIST – *SURVEY REQUIRED*



NCDOT ARCHAEOLOGIST

October 10, 2018

Date

18-09-0045



**NO NATIONAL REGISTER OF HISTORIC PLACES
ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES
PRESENT 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-0069** County: **Caswell**
 WBS No: **67069.1.1** Document: **MCC**
 F.A. No: **na** Funding: ☒ State ☐ Federal

Federal Permit Required? ☒ Yes ☐ No Permit Type: ?

Project Description:

The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 1 on US 158/NC 86 over Country Line Creek east of Yanceyville. No preliminary designs were available at the time of the archaeological investigations, but a study area was submitted with the request for screening. This study area generally consists of a corridor roughly 2000 feet long and 400 feet wide. For the purposes of the archaeological survey, this study area will be considered to be the area of potential effects (APE). Thus, the APE for the proposed project is estimated to encompass 18.3 acres (nearly 7.41 hectares).

SUMMARY OF ARCHAEOLOGICAL FINDINGS

The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:

- ☒ There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- ☐ No subsurface archaeological investigations were required for this project.
- ☒ Subsurface investigations did not reveal the presence of any archaeological resources.
- ☐ Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- ☐ All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☐ Previous Survey Info ☒ Photos

Signed:

August 1, 2019

NCDOT ARCHAEOLOGIST

Date

18-09-0045

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

On October 10, 2018, NCDOT archaeologist, Shane Petersen, recommended further archaeological investigation of the proposed APE based on topographic and soil mapping that suggested the possibility for microenvironmental conditions suitable for the preservation of archaeological deposits in some portions of the project area. An archaeological reconnaissance survey was recommended that would visually inspect all portions of the APE to determine which areas might retain a higher probability for archaeological site location. Those areas were then to be subjected to intensive subsurface investigation.

Prior to initiating the archaeological field investigations, researchers with Johnson, Mirmiran, and Thompson, Inc. (JMT), conducted background archaeological research at the North Carolina Office of State Archaeology in Raleigh (OSA). According to the records at OSA one archaeological site, 31CS68, a prehistoric site that was not considered to be eligible for inclusion on the National Register of Historic Places (NRHP), was located within a 1-mile radius of the proposed project.

The archaeological Survey for Bridge No. 1 in Caswell County was undertaken as part of a series of investigations undertaken by archaeologists with JMT from May 24 – June 1, 2019. Shovel tests were excavated at intervals of 30 meters. Areas that exhibited disturbance, severe slope, inundation, or were marked during wetland delineations were not shovel tested. A significant portion of the APEs were not excavated due to steeply sloped landforms, areas of severe erosion and soil deflation, residential development, and low-lying wet areas. All areas not subjected to subsurface testing were visually inspected and pedestrian surveyed.

The following description of the results of the archaeological survey have been adapted from JMT's archaeological report (Minford 2019), which is on file with the Environmental Analysis Unit at NCDOT.

The study area for Bridge No. 1 measures 610m in length and 122m wide along US 158/NC 86 over Country Line Creek. A total of 27 shovel test locations were investigated, of which, all were negative. Portions of the APE were not shovel tested due predominately to severe slope or low-lying wet areas. A large portion of the APE contained either severe slope (approximately 3 acres) or was low lying and wet (approximately 6 acres). The remains of a cinder block structure were noted in the northeastern quadrant of the APE. A judgmental shovel test was excavated in this area but was designated 'negative' for archaeological deposits as a result of nothing more than modern trash recovered within the first stratum. This structure is interpreted as modern in nature. Soils observed within the western portion of the APE were shallow and eroded due to severe slope. Soils recorded in the eastern portion of the APE were deeper but contained hydric soils. A typical soil profile within the latter portion of the APE is:

Stratum I (0 – 40 cm): 10YR 4/3 brown sandy loam
Stratum II (40 - 50 cm): 10YR 4/3 brown hydric sand

No archaeological sites were identified within the APE, and no further work is recommended for this area as currently designed.

References Cited:

Minford, L. and C. Herrnsstadt

2019 *Phase I Archaeological Survey, Proposed Replacement of Bridge Nos. 1, 7, & 61 in Caswell County; and Bridge Nos. 35, 170, 176, 178, & 183 in Rockingham County.* Ms. on file, Environmental Analysis Unit, North Carolina Department of Transportation, Raleigh.

18-09-0045



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-0069	County:	Caswell
WBS No.:	67069.1.1	Document Type:	MCC
Fed. Aid No:		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. 1 on US 158/NC 86 over County Line Creek near Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE).

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of project area on HPOWeb GIS was conducted in November 2018. There are no existing NR, SL, DE, LD or SS properties in the project area. Constructed in 1970, Bridge No.1 does not meet the NR criteria consideration for exceptional importance for properties less than 50 years of age. There do not appear to be any significant historic architectural resources within the project area, therefore no further survey is 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 GIS data, Google StreetView and Caswell County property records are considered valid tools for the purposes of determining the likelihood of historic resources.

SUPPORT DOCUMENTATION

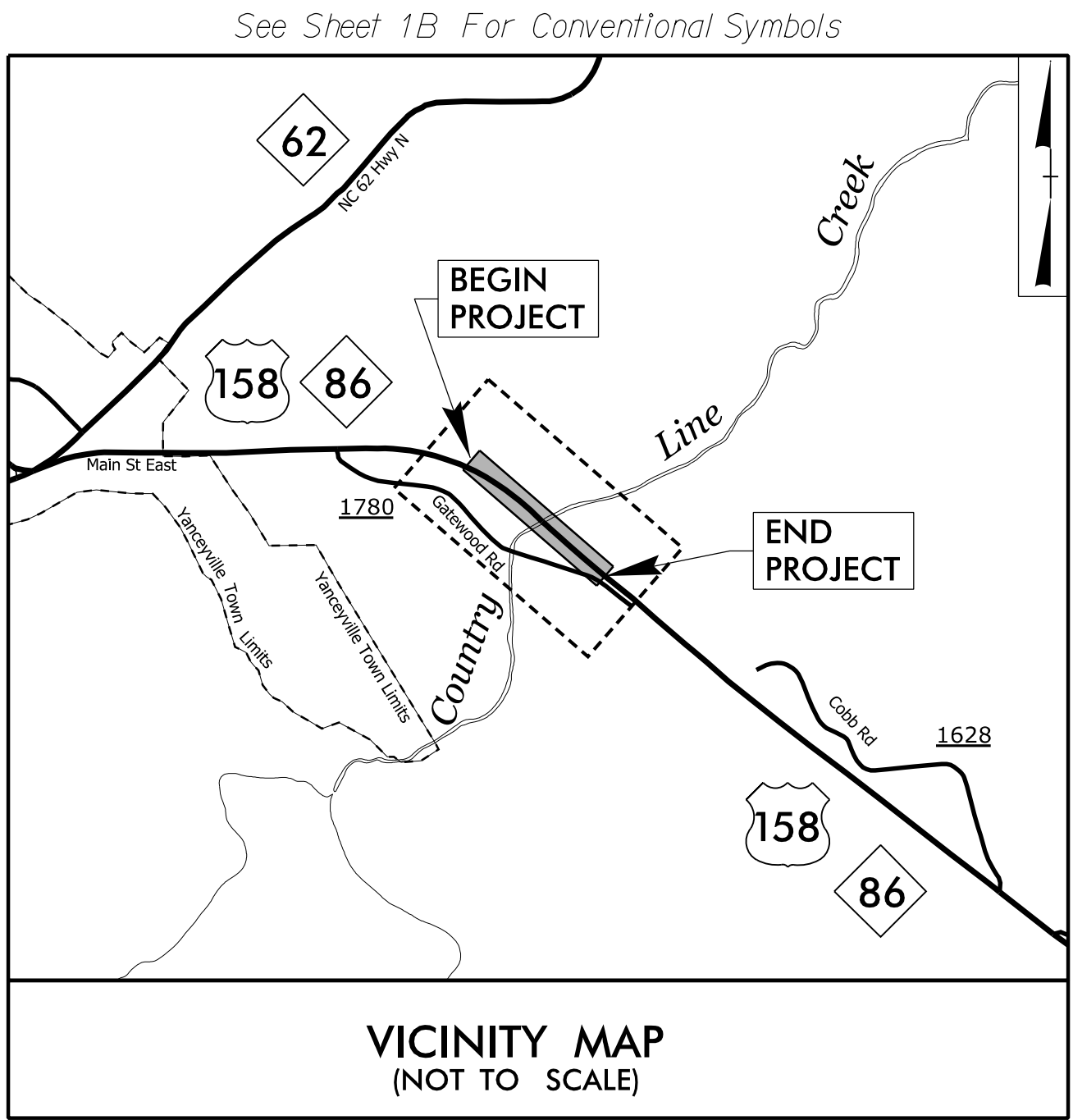
☒ Map(s) ☐ Previous Survey Info. ☒ Photos ☐ Correspondence ☐ Design Plans

09.08/23

11/14/2022
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gmodlin

TIP PROJECT: BR-0069

CONTRACT:



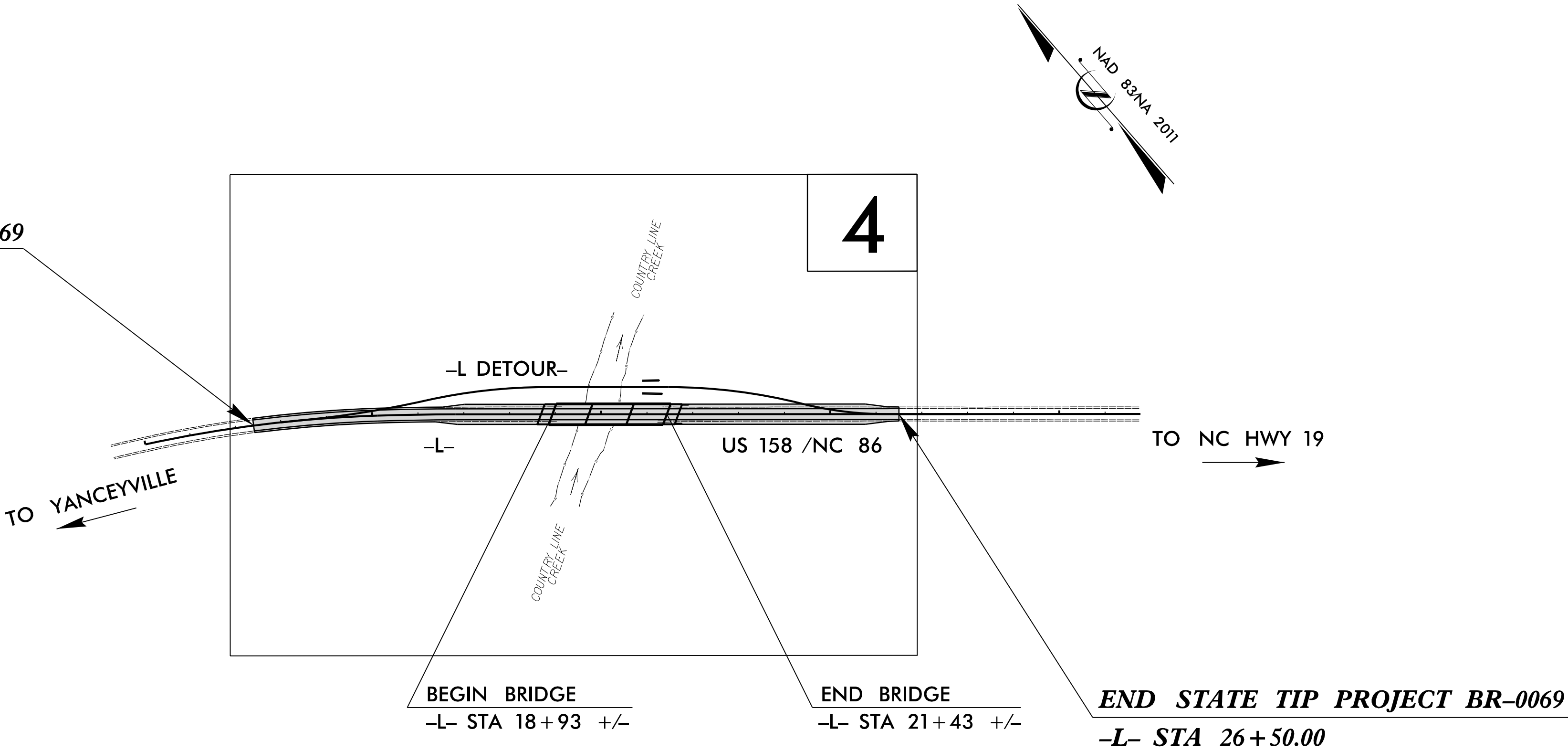
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CASWELL COUNTY

LOCATION: BRIDGE NO.160001 OVER COUNTRY LINE CREEK ON
US 158 /NC 86

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

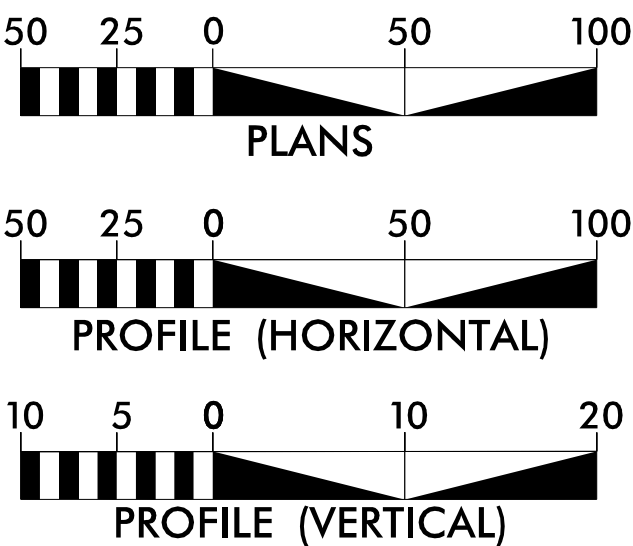
FIELD INSPECTION PLANS



THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____

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

GRAPHIC SCALES



DESIGN DATA

ADT 2023 = 8,525
ADT 2043 = 10,025
K = TBD %
D = TBD %
T = 10 % *
V = 60 MPH
* TTST = 6% DUAL 4%
FUNC CLASS =
PRINCIPAL RURAL ARTERIAL
-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0069 = 0.220
LENGTH STRUCTURE TIP PROJECT BR-0069 = 0.047
TOTAL LENGTH TIP PROJECT BR-0069 = 0.267

Prepared for NCDOT In the Office of:



moffatt & nichol

4100 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919) 781-4625 VOICE (919) 781-4863 FAX
NC License NO.: F-0105

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 19, 2022

LETTING DATE:
OCTOBER 17, 2023

TRENT HUFFMAN, P.E.
PROJECT ENGINEER

GRAY MODLIN, P.E.
PROJECT DESIGN ENGINEER

DAVID STUTTS, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER



moffatt & nichol

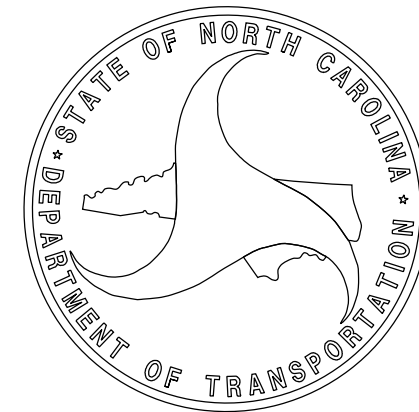
SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

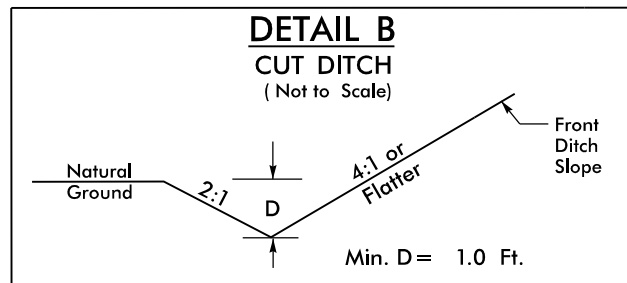


moffatt & nichol

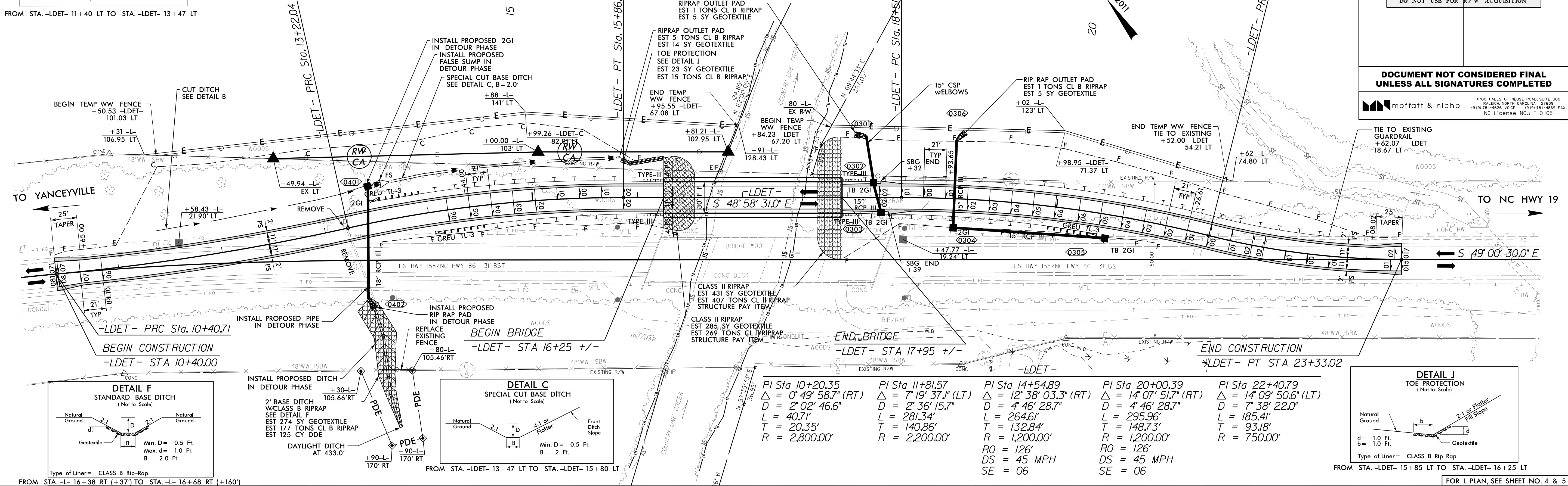
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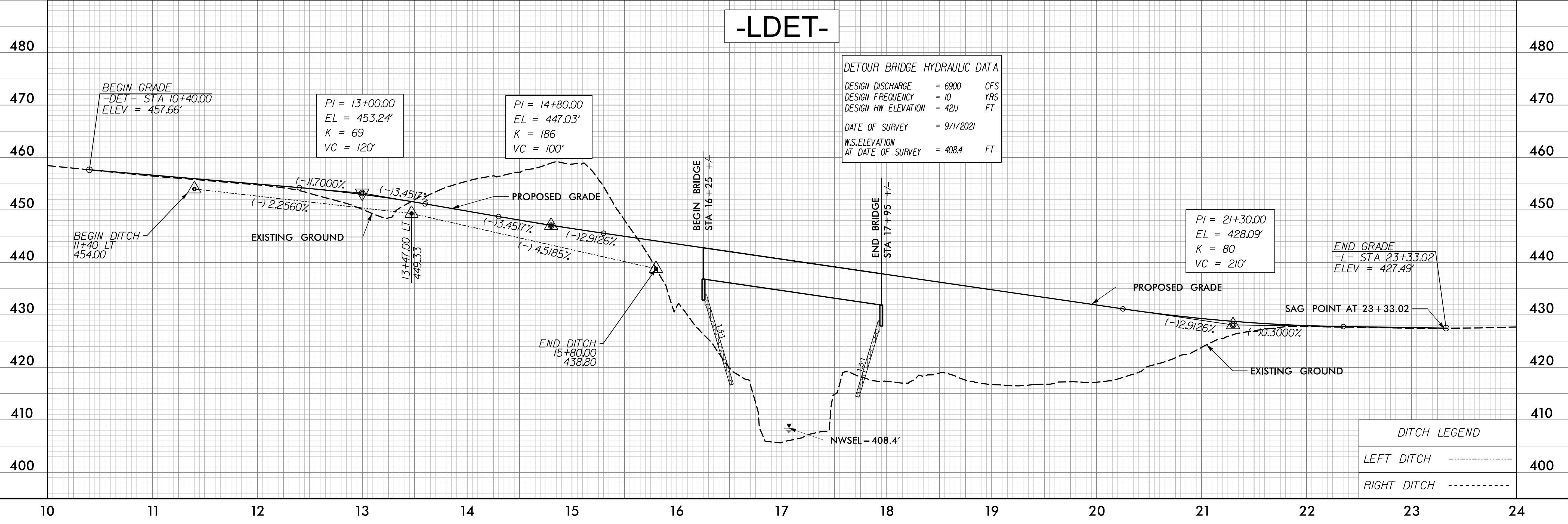
8/17/19



FROM STA. -LDET- 11 +40 LT TO STA. -LDET- 13 +47 LT



PROJECT REFERENCE NO. <i>BR-0069</i>		SHEET NO. <i>2B-1</i>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
moffatt & nichol		4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4869 FAX NC License No. F-0105	



DETOUR BRIDGE HYDRAULIC DATA			
DESIGN DISCHARGE	= 6900	CFS	
DESIGN FREQUENCY	= 10	YRS	
DESIGN HW ELEVATION	= 421	FT	
DATE OF SURVEY	= 9/1/2021		
W.S.ELEVATION AT DATE OF SURVEY	= 408.4	FT	

DITCH LEGEND	
LEFT DITCH	-----
RIGHT DITCH	-----

8/17/99

11/14/2022
G:\RA\10011-109\BR-0069\Roadway\Pro\BR-0069_rdw\FSH04.dgn
smc

-L-
PI Sta 12+56.59
 $\Delta = 10^\circ 28' 18.0''$ (RT)
 $D = 2^\circ 02' 46.6''$
 $L = 511.74'$
 $T = 256.59'$
 $R = 2,800.00'$
 $DS = 60$ MPH
 $Runoff = 144'$
 $SE = 06$

PI Sta 15+96.91
 $\Delta = 1^\circ 46' 27.7''$ (RT)
 $D = 1^\circ 02' 30.3''$
 $L = 170.33'$
 $T = 85.17'$
 $R = 5,500.00'$
 $DS = 60$ MPH
 $Runoff = 72'$
 $SE = 03$


GREGORY-STEPHENS PROPERTIES
WENDY GREGORY POULOS AND DENNA GREGORY RAYMOND IRREVOCABLE TRUST
DB 399 PG 218
PB 13 PG 63

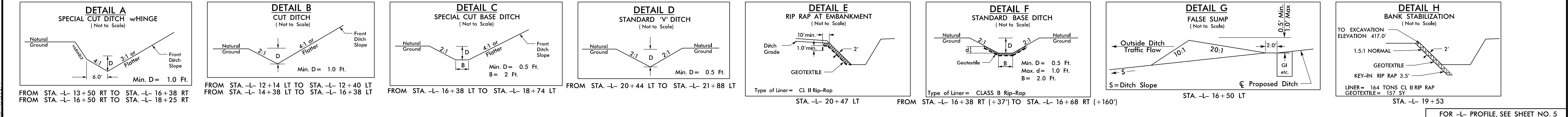
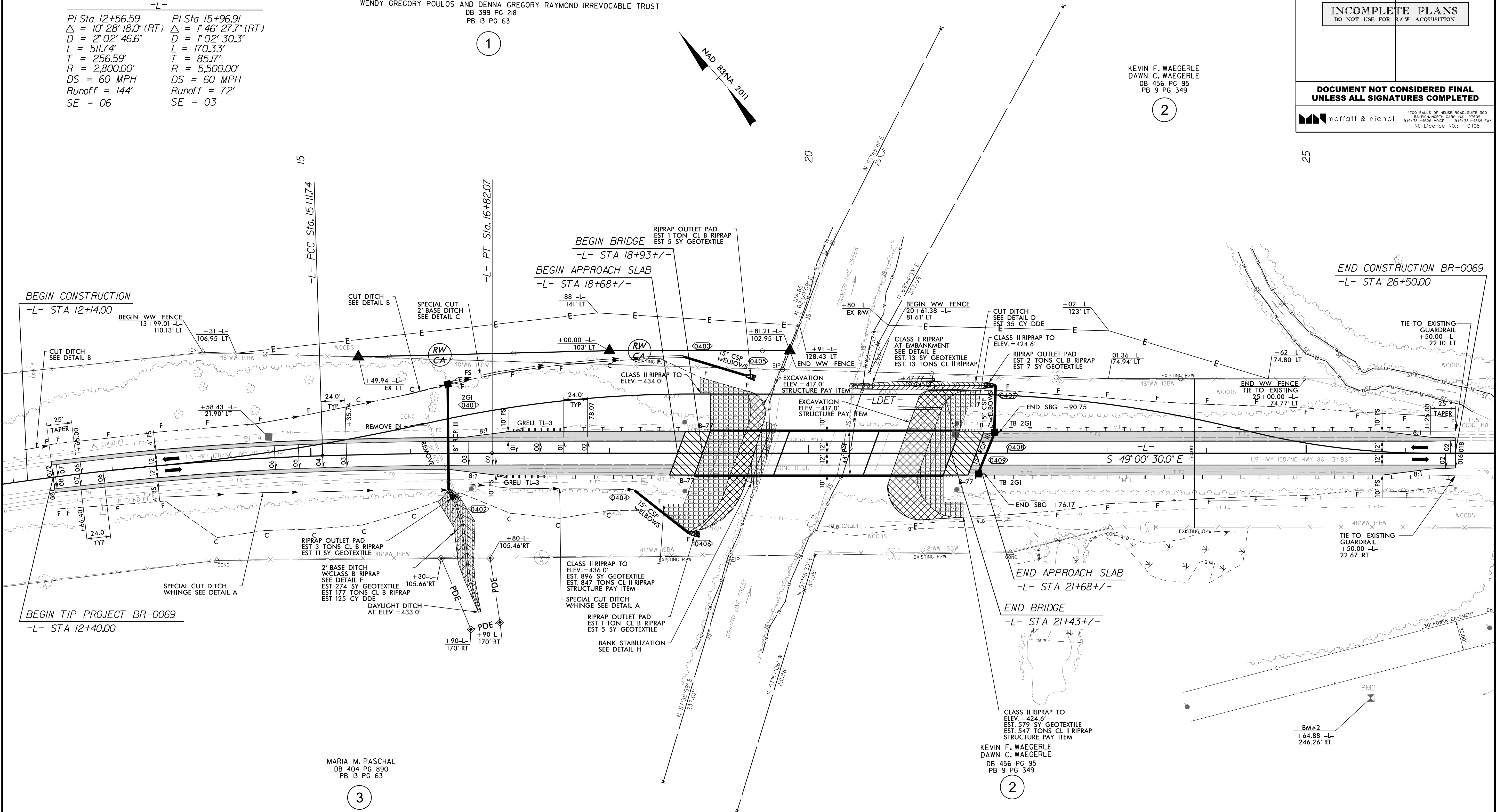
1

NAD 83/NA 2011

KEVIN F. WAEGERLE
DAWN C. WAEGERLE
DB 456 PG 95
PB 9 PG 349

2

PROJECT REFERENCE NO. <i>BR-0069</i>		SHEET NO. <i>4</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS</div> <div>DO NOT USE FOR R/W ACQUISITION</div>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 moffatt & nichol		4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-8869 FAX NC License No. F-0105	



FOR -L- PROFILE, SEE SHEET NO. 5