



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

January 30, 2025

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

N.C. Department of Environmental Quality
Raleigh Central Office
1617 Mail Service
Raleigh, NC 7699

ATTN: Mr. Eric Alsmeyer
NCDOT Coordinator

Mr. Ryan Conchilla
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 14, 401 Water Quality Certification and Buffer Authorization** for the proposed Replacement of Bridge No. 37 on NC 86 over New Hope Creek in Orange County, North Carolina, Division 7; TIP No. BR-0092. WBS Element No. 67092.1.1

Dear Sirs:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County. Bridge No. 670037 will be replaced on a new alignment to the west of the existing bridge while traffic is maintained on the existing bridge during construction. The replacement structure will be a single-span 127-foot-long bridge, with two 12-foot lanes and 8-foot shoulder offsets. The result of this action will be 15 linear feet (<0.01 acre) of permanent stream impacts, 85 linear feet (<0.01 acre) of stream bank stabilization, and 0.03 acre temporary stream impacts from a causeway and temporary construction. There will also be 0.039 acre permanent impacts to wetlands and <0.01 acre of hand clearing in wetlands. The project length is approximately 1,450 feet.


There will be 17,056 square feet of allowable impacts to the Jordan Lake Buffer from the new bridge with mitigation required for the 4,445 square feet of roadway fill buffer impacts for this project.

Please see the enclosed State Stormwater Management Plan (SMP), permit drawings, buffer drawings, Division of Mitigation Services (DMS) mitigation acceptance letter, and cultural resource information.

This project calls for a letting date of August 19, 2025 and a review date of April 29, 2025.

If you have any questions or need additional information, please contact Jeff Hemphill at jlhemphill@ncdot.gov or (919) 707-6126. A copy of this application and distribution list will also be posted on the NCDOT website at: <https://xfer.services.ncdot.gov/pdea/PermApps/>.

Sincerely,

for 
Michael Turchy
Environmental Coordination and Permitting [ECAP] Group Leader

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



Pre-Construction Notification (PCN) Form

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

December 4, 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

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, electric generation projects located at an existing or former electric generating facility, or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? *

Yes No

Is this application for a project associated with emergency response/repairs from Hurricane Helene impacts to your project or property?

Yes No

Is this project connected with ARPA funding? *

Yes No

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

Orange

Is this a NCDMS Project? *

Yes No

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

DON'T 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:

BR-0092

WBS # *

67092.1.1

(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

NWP Numbers (for multiple NWPS):

List all NW numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR: *

check all that apply

- 401 Water Quality Certification - Regular
- Non-404 Jurisdictional General Permit
- Individual 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? *

Jeff Hemphill

1c. Primary Contact Phone: *

(xxx)xxx-xxxx
(919)707-6126

1b. Primary Contact Email: *

jhemphill@ncdot.gov

1d. Who is applying for the permit? *

- Owner
 - Applicant (other than owner)
- (Check all that apply)

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)707-6126

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

ekcheely@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

Jeff Hemphill

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)707-6126

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

jhemphill@ncdot.gov

C. Project Information and Prior Project History



1. Project Information



1a. Name of project: *

BR-0092 - Bridge 37 on NC 86 over New Hope Creek

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

New Hope

2. Project Identification



2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude: *

35.99509

ex: 34.208504

Longitude: *

-79.07251

-77.796371

3. Surface Waters

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

New Hope Creek

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

WS-V; NSW

[Surface Water Lookup](#)

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

Cape Fear

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

03030002

[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: *

Two lane facility over a waterbody.
Rural residential, forested.

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:

0.23 acres

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

(intermittent and perennial)

813 lf

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

The purpose of the proposed project is to replace a structurally deficient bridge. Bridge No. 670037 was built in 1951. The three-span bridge is 90 feet long with a deck width of 22 feet. The superstructure is composed of a reinforced concrete deck with steel I-beams. NCDOT Bridge Management Unit records indicate the structure currently has a sufficiency rating of 52.01 out of a possible 100 for a new structure as of March 16, 2022. The bridge is considered structurally deficient due to a superstructure rating of 4 out of 9.

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

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County. Bridge No. 670037 will be replaced on new alignment to the west of the existing bridge while traffic is maintained on the existing bridge during construction. The replacement structure will be a single-span 116-foot-long bridge, with two 12-foot lanes and 8-foot shoulder offsets. The roadway approaches along NC 86 will have two 12-foot lanes and 8-foot usable shoulders, of which four feet will be paved except in areas with guardrail, where the shoulder will be paved to a width of 8 to 10 feet. The project length is approximately 1,450 feet. 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): Hal Bain

Agency/Consultant Company: RK&K

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*
Site 1	False Cut Ditch	P	Non-Tidal Freshwater Marsh	WC	Yes	Both	0.021 (acres)
Site 3	RCP	P	Non-Tidal Freshwater Marsh	WA	No	Both	0.001 (acres)
Site 4	Roadway Embankment	P	Non-Tidal Freshwater Marsh	WB	No	Both	0.017 (acres)

2g. Total Temporary Wetland Impact

0.000

2g. Total Permanent Wetland Impact

0.039

2g. Total Wetland Impact

0.039

2i. Comments:

There is 0.005 acres of Hand Clearing at Site 3 that is nonmitigable.

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	Site 2 - Bank Stabilization	Permanent	Bank Stabilization	New Hope Creek	Perennial	Both	33 Average (feet)	85 (linear feet)
S2	Site 2 - Rip Rap at Embankment	Permanent	Rip Rap Fill	New Hope Creek	Perennial	Both	33 Average (feet)	15 (linear feet)
S3	Site 2 - Rip Rap at Embankment	Temporary	Other	New Hope Creek	Perennial	Both	33 Average (feet)	27 (linear feet)
S4	Site 2 - Causeway	Temporary	Workpad/Causeway	New Hope Creek	Perennial	Both	33 Average (feet)	35 (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:

100

3i. Total temporary stream impacts:

62

3i. Total stream and ditch impacts:

162

3j. Comments:

6. Buffer Impacts (for DWR)

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

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

Check all that apply.

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

6b. Impact Type* (?)	6c. Per or Temp* (?)	6d. Stream name*	6e. Buffer mitigation required?*	6f. Zone 1 impact* (square feet)	6g. Zone 2 impact* (square feet)
Bridge - Allowable	P	New Hope Creek	No	3,526 (square feet)	742 (square feet)
Bridge - Allowable	P	New Hope Creek	No	1,947 (square feet)	98 (square feet)

Bridge - Allowable	P	New Hope Creek	No	1,225 (square feet)	525 (square feet)
Bridge - Allowable	P	New Hope Creek	No	1,308 (square feet)	534 (square feet)
Roadway - Allowable w/Mitigation	P	New Hope Creek	Yes	60 (square feet)	1,406 (square feet)
Roadway - Allowable w/Mitigation	P	New Hope Creek	Yes	738 (square feet)	1,728 (square feet)
Roadway - Allowable w/Mitigation	P	New Hope Creek	Yes	0 (square feet)	404 (square feet)
Roadway - Allowable w/Mitigation	P	New Hope Creek	Yes	0 (square feet)	109 (square feet)
Parallel Impact - Allowable	P	New Hope Creek	No	3,502 (square feet)	3,649 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00

	Zone 1	Zone 2
Total Permanent impacts:	12,306.00	9,195.00

	Zone 1	Zone 2
Total combined buffer impacts:	12,306.00	9,195.00

6i. Comments:

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: *

Design Standards for Sensitive Watersheds will be implemented during project construction.
The existing bridge will serve as an onsite detour during construction of the new bridge, reducing temporary construction impacts.

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

Best Management Practices

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)

15

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)

4445

4e. Riparian wetland mitigation requested:

(acres)

0.039

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

0.048 acre wetland mitigation was originally requested from DMS, but total wetland mitigation needs are actually 0.039 acre.

F. Stormwater Management and Diffuse Flow Plan (required by DWR)



*** Recent changes to the stormwater rules have required updates to this section .***

1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes No

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

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

What type of SCM are you providing?

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

(check all that apply)

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

2. Stormwater Management Plan

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

Yes No

Comments:

G. Supplementary Information



1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? *

Yes No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? *

Yes No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) *

Yes No

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *

Yes No

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? *

Yes No

3b. If you answered "no," provide a short narrative description.

Due to the minimal transportation impact resulting from this bridge replacement, this project will not stimulate growth but may 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?

USFWS, 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? *

Section 7 compliance for the Atlantic pigtoe mussel has been met through the Eastern Mussel Programmatic Biological Opinion (PBO) issued by the U.S. Fish & Wildlife Service. This use of the PBO has the following biological conclusion: May Affect, Likely to Adversely Affect. The Department will adhere to the PBO Methodology, Conservation Measures, Reasonable and Prudent Measures, Terms and Conditions, and Monitoring and Reporting Requirements. The appropriate payment to the NC Nongame Aquatic Species Fund was submitted and verified received in the second quarter of the 2024-2025 FY.

The monarch butterfly was listed as Proposed Threatened on December 12, 2024. No biological conclusion is required for this species at this time.

USFWS Information for Planning and Consultation (IPaC).

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? *

Review of online mapping sources.

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? *

Included Archaeology Form/Letter and Historic Properties and Landscapes Form/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

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

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

FEMA Flood maps

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-0092 Orange January 30 2025.pdf

17.13MB

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 *



Erin K. Cheely

Date

1/30/2025

Permit Drawings



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: 67092.1.1 TIP/Proj No: BR-0092 County(ies): Orange Page 1 of 2

General Project Information

WBS Element:	67092.1.1	TIP Number:	BR-0092	Project Type:	Bridge Replacement	Date:	10/23/2024
NCDOT Contact:	Bryan Key, PE			Contractor / Designer:	MI Engineering, PLLC		
	Address:	Highway Division 7 PO Box 14996 Greensboro, 27415-4996 (Mailing)		Address:	1011 Schaub Drive, Ste 100 Raleigh, NC 27606		
	Phone:	919-707-6263		Phone:	919-851-6606		
	Email:	bckey@ncdot.gov		Email:	hturner@mi-engineers.com		
City/Town:	near Chapel Hill			County(ies):	Orange		
River Basin(s):	Cape Fear			CAMA County?	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.28	Surrounding Land Use:	Woods, Wetlands, Railroad, Rural Business & Residential					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	1.4	ac.	1.0	ac.				
Typical Cross Section Description:	2-lane undivided highway, with 12' lanes and 8' open shoulders, 13' shoulder at areas w/ guardrail. 4' paved shoulder leading to shoulder berm gutter (SBG) at bridge approach each direction (East Side). Cross slope varies from normal crown at begin project to super elevation along the south approach, across bridge, and to end project.			2-lane undivided highway, with 10' lanes and open shoulders. Cross slope varies from normal crown at begin project to super elevation along the south approach near bridge, across bridge, and to end project.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	7900	Year:	2045	Existing:	6700	Year:	2025

General Project Narrative:
(Description of Minimization of Water Quality Impacts)

SA: Roadway Runoff on South Side (Begin) Project limits to -L- 10+75 is sheet flow via grass shoulder and side slopes which drains to the existing 66" RPC and rip rap outfall channel that run to UT to New Hope Creek. NC-SELDM Catalog recommended use of Minimum Stormwater Control Measures.

SB: Proposed Bridge is 1 span (1@127") 54" Florida I-Beam with 4.0' End Bent Caps. Sloping abutments set back minimum 10' from New Hope Creek top of bank. South stream bank armored with rip rap bank stabilization. Existing interior bents set inside New Hope Creek channel to be removed. NC-SELDM Catalog recommended no Stormwater Control Measures needed.

SB: Runoff approaching South side (Begin) bridge and North side (End) bridge before roadway crest is collected by 2 inlet's set in Shoulder Berm Gutter on low side of super (East Side). This system runs West under proposed -L- alignment to Junction Box in roadway shoulder before dispersing into proposed roadside ditch that runs to New Hope Creek. NC-SELDM Catalog recommended no Stormwater Control Measures needed.

SB: Runoff after roadway crest on North side (End) bridge is collected by 1 inlet set in shoulder berm gutter on low side of super (east side). This system runs West under proposed -L- alignment to Junction Box in roadway shoulder before dispersing into proposed roadside ditch that runs to New Hope Creek. NC-SELDM Catalog recommended no Stormwater Control Measures needed.

SB: Roadway Runoff on South Side (Begin) Project limits is collected by roadside ditches that run to New Hope Creek. Rip Rap lined ditches are utilized West Side to minimize shear stress. NC-SELDM Catalog recommended no Stormwater Control Measures needed.

SB: Roadway Runoff along -Y- is collected into roadside ditches that run to -L- line both sides. Left side ditches drain to 24" cross pipe underneath -Y-, and right side ditches drain to rip rap lined ditches along -L- that disperse to New Hope Creek. NC-SELDM Catalog recommended no Stormwater Control Measures needed.

PA: Roadway Runoff on North Side (End) Project limits along -L- is collected by roadside ditches West Side that drain to an 18" cross pipe underneath NC-86 (-L-) to rip rap outlet pad before dispersing into existing pond East Side.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: 67092.1.1 TIP/Proj No.: BR-0092 County(ies): Orange Page 2 of 2

General Project Information

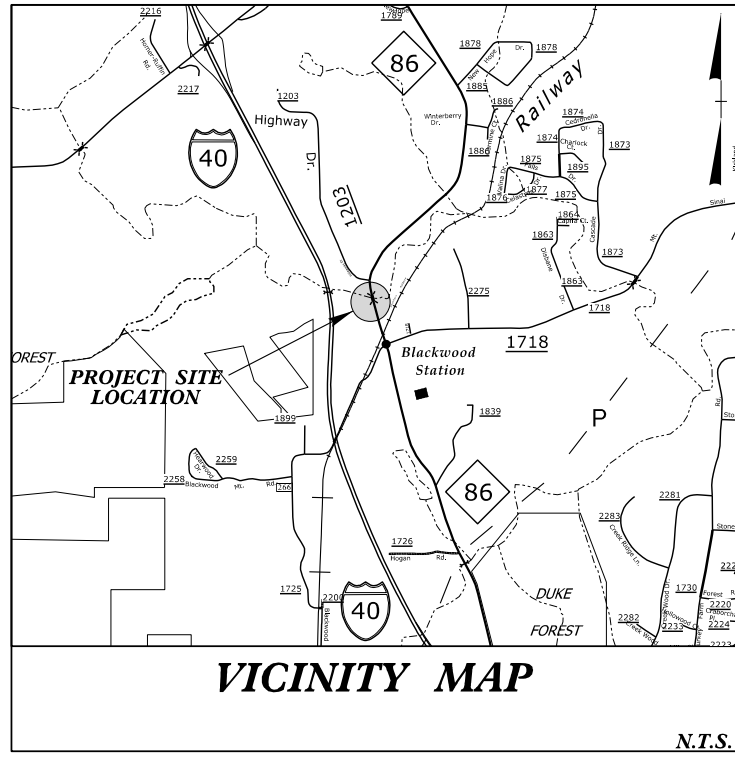
Waterbody Information

Surface Water Body (1):	New Hope Creek		NCDWR Stream Index No.:	16-41-1-(0.5)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Water Supply V (WS-V)		
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	Yes	Comments:	Cape Fear Shiner		
NRTR Stream ID:	SB (New Hope Creek)		Buffer Rules in Effect:	Jordan Lake	
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (2):	SA		NCDWR Stream Index No.:	16-41-1-(0.5)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Water Supply V (WS-V)		
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	Yes	Comments:	Cape Fear Shiner		
NRTR Stream ID:	SA		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (3):	PA		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:	PA		Buffer Rules in Effect:		
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in 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)					

09.08/24

TIP PROJECT: BR-0092

See Sheet 1A For Index of Sheets



THE PROJECT IS NOT WITHIN ANY MUNICIPAL LIMITS.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO LIMITS ESTABLISHED BY METHOD II.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ORANGE COUNTY

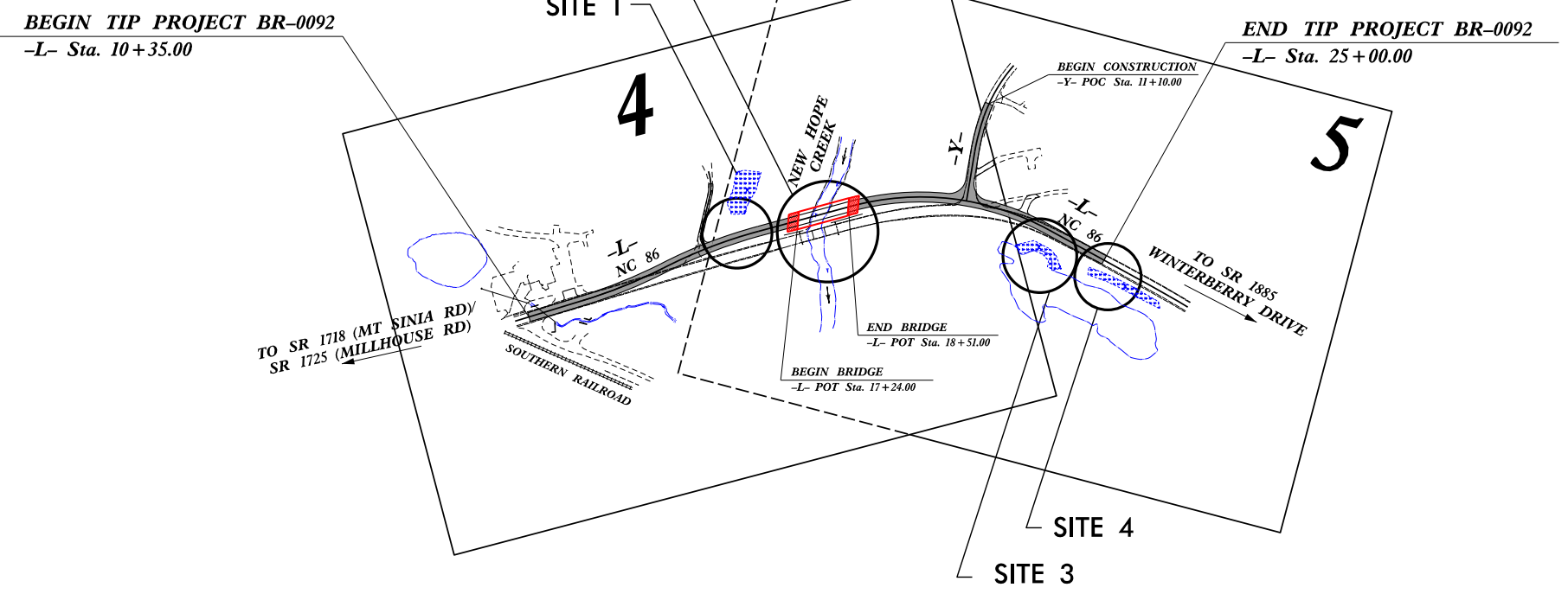
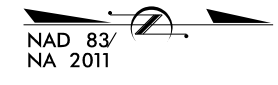
LOCATION: BRIDGE 67037 ON NC 86 OVER NEW HOPE CREEK

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

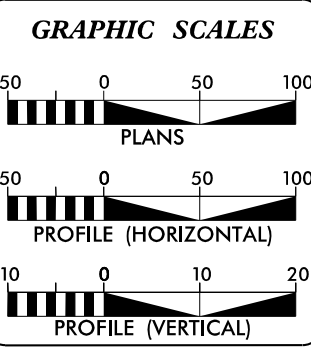
WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0092	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67092.1.1		P.E.	
		R/W & Utilities	
		Construction	

PERMIT DRAWING
SHEET 1 OF 11



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2025 =	6,700
ADT 2045 =	7,900
K =	12 %
D =	70 %
T =	4 % *
V =	50 MPH
* TTST =	1% DUAL 3%
FUNC CLASS =	MINOR ARTERIAL
	REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0092	=	0.253 mi
LENGTH STRUCTURE TIP PROJECT BR-0092	=	0.024 mi
TOTAL LENGTH OF TIP PROJECT BR-0092	=	0.277 mi

PLANS PREPARED BY: PENNON ASSOCIATES, INC. 5410 WINDY PINE BLVD., SUITE 100 RALEIGH, NC 27607 (919) 804-1777 FAX (919) 804-1207	PLANS PREPARED FOR: DIVISION OF HIGHWAYS PROGRAM MANAGEMENT UNIT 1000 Brich Ridge Drive Raleigh, NC 27610
RIGHT OF WAY DATE: JANUARY 19, 2024	BRIAN A. WILES, PE PROJECT ENGINEER
LETTING DATE: AUGUST 19, 2025	BRYAN KEY, PE NCDOT CONTACT PROGRAM MANAGEMENT UNIT

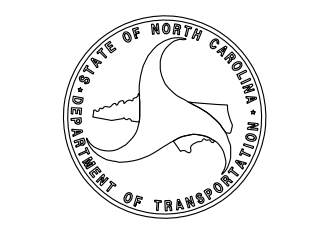
HYDRAULICS ENGINEER

MR. ENGINEERING
1011 SCHUBERT DRIVE, SUITE 100
RALEIGH, NC 27607
(919) 804-1207
PROM. PE. NUMBER: P-40871

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



10/23/2024
M:\ENGINEERING
BR0092_Flyd_prim_wet_1.sh.dgn



PENNONI ASSOCIATES INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

PROJECT REFERENCE NO.	SHEET NO.
BR-0092	4
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 2 OF 11



NAD 83/NA 2011

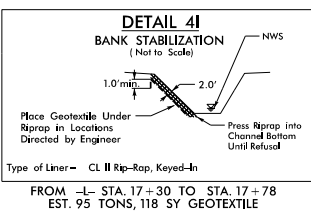
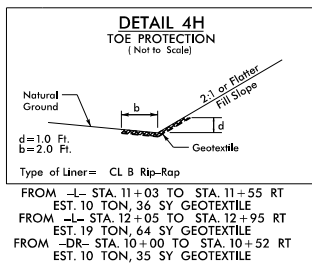
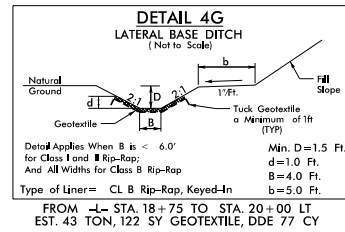
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PC Sta 9+30.51
PT Sta 9+78.82
S 76° 43' 03.5"
PC Sta 10+75.04
PT Sta 10+90.38
N 68° 10' 28.5"
POT Sta 11+12.41

PI Sta 9+55.15
 $\Delta = 27° 40' 54.6"$ (RT)
D = 57° 17' 44.8"
L = 48.31'
T = 24.64'
R = 100.00'

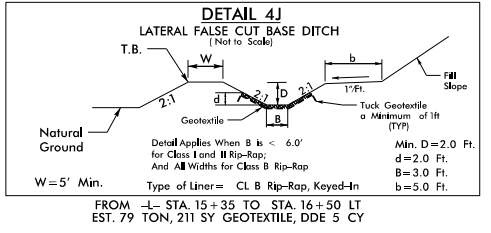
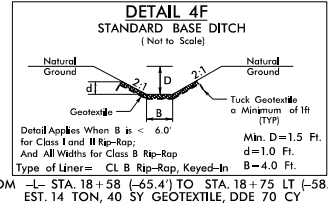
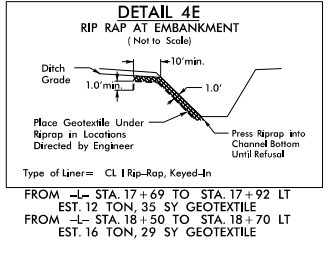
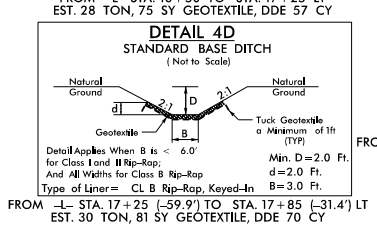
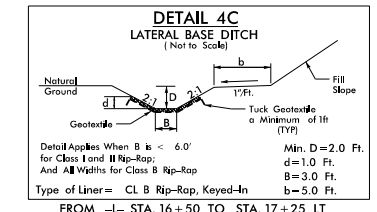
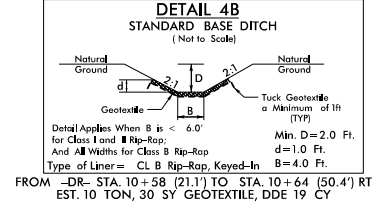
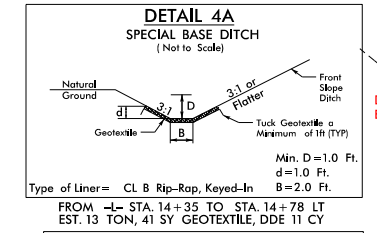
PI Sta 10+82.95
 $\Delta = 35° 06' 28.0"$ (LT)
D = 229° 10' 59.2"
L = 15.32'
T = 7.91'
R = 25.00'

SITE 2 - SEE PERMIT DRAWING
SHEET 4 OF 11 FOR ENLARGEMENT

SITE 1 - SEE PERMIT DRAWING
SHEET 4 OF 11 FOR ENLARGEMENT



BEGIN STATE TIP PROJECT BR-0092
-L- POT Sta. 10+35.00

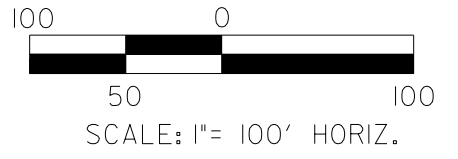
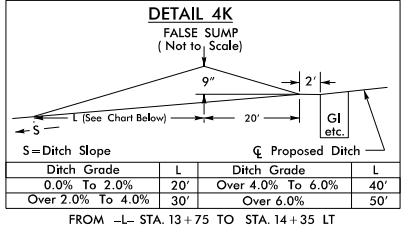


PI Sta 12+74.60
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D = 4° 48' 53.2"
L = 210.21'
T = 105.38'
R = 1,190.00'
e = 0.05
RO = 120'
DS = 45 mph

PI Sta 15+03.63
 $\Delta = 17° 55' 02.0"$ (RT)
D = 4° 48' 53.2"
L = 247.51'
T = 124.20'
R = 1,190.00'
e = 0.05
RO = 120'
DS = 45 mph

PI Sta 21+14.95
 $\Delta = 43° 53' 50.6"$ (RT)
D = 8° 54' 38.5"
L = 492.64'
T = 259.12'
R = 643.00'
e = 0.06
RO = 144'
DS = 45 mph

PLAN VIEW
SITES 1 & 2



FOR PROFILE, SEE SHEET 6

REVISIONS

10/23/2024
MI ENGINEERING
BR0092_Hyd_perm_wst_04.dwg



PENNONI ASSOCIATES, INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #P-1267

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

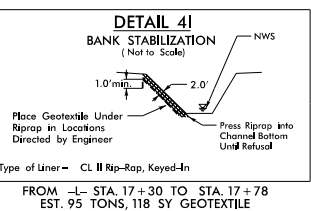
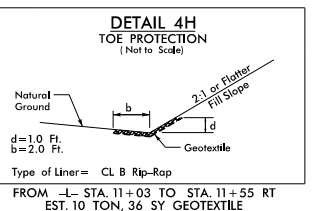
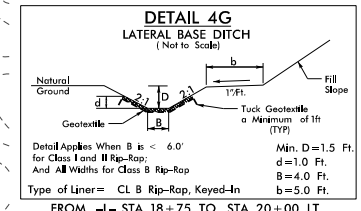
PROJECT REFERENCE NO.	SHEET NO.
BR-0092	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 3 OF 11



NAD 83/NA 2011



POT Sta 9+18.98
N 75° 36' 01.9"
PC Sta 9+30.51
PT Sta 9+78.82
S 76° 43' 03.5"
PC Sta 10+75.04
PT Sta 10+90.38
N 68° 10' 28.5"
POT Sta 11+12.41

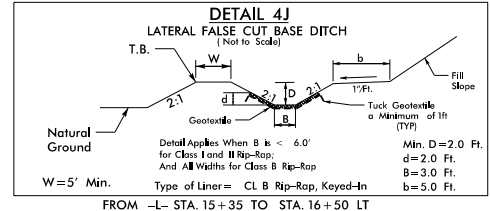
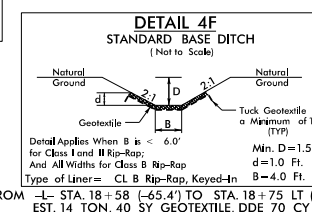
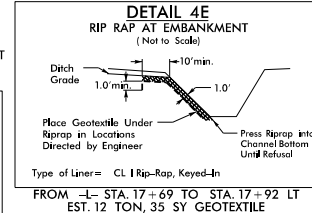
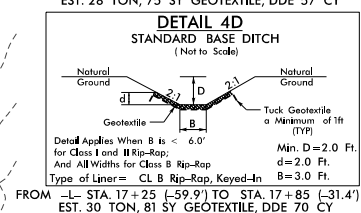
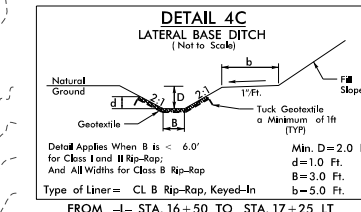
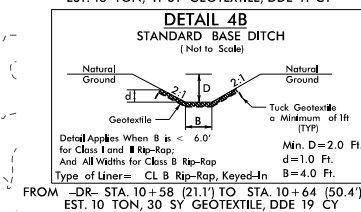
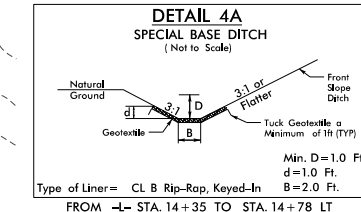
PI Sta 9+55.15
Δ = 27° 40' 54.6" (RT)
D = 57' 17" 44.8"
L = 48.31'
T = 24.64'
R = 100.00'

PI Sta 10+82.95
Δ = 35° 06' 28.0" (LT)
D = 229' 10" 59.2"
L = 10.32'
T = 79.1'
R = 25.00'

SITE 2 - SEE PERMIT DRAWING SHEET 4 OF 11 FOR ENLARGEMENT

SITE 1 - SEE PERMIT DRAWING SHEET 4 OF 11 FOR ENLARGEMENT

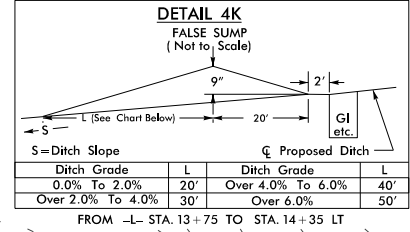
BEGIN STATE TIP PROJECT BR-0092
-L- POT Sta. 10+35.00



PI Sta 12+74.60
Δ = 10° 07' 16.3" (LT)
D = 4' 48" 53.2"
L = 210.21'
T = 105.38'
R = 1190.00'
e = 0.05
RO = 120°
DS = 45 mph

PI Sta 15+03.63
Δ = 11° 55' 02.0" (RT)
D = 4' 48" 53.2"
L = 247.51'
T = 124.20'
R = 1190.00'
e = 0.05
RO = 120°
DS = 45 mph

PI Sta 21+14.95
Δ = 43° 53' 50.6" (RT)
D = 8' 54" 38.5"
L = 492.64'
T = 259.12'
R = 643.00'
e = 0.06
RO = 144°
DS = 45 mph



TEMPORARY ROCK CAUSEWAY FOR EX-INT. BENT REMOVAL

PLAN VIEW
SITES 1 & 2

TEMPORARY 20' WIDE CONST. ACCESS

LEGEND

- TEMPORARY SURFACE WATER IMPACTS
- SURFACE WATER IMPACTS
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)

FOR PROFILE, SEE SHEET 6

REVISIONS

10/23/2024
MI ENGINEERING
BR0092.dwg
w.t. est. 04 condan



PENNONI ASSOCIATES, INC.
 5430 WADE PARK BLVD., SUITE 106,
 RALEIGH, NC 27607
 (919) 929-1173 NC LICENSE #F-1267



1011 SCHAUB DRIVE, SUITE 100
 RALEIGH, NC 27606
 (919) 851-6606
 FIRM PE NUMBER : P-0671

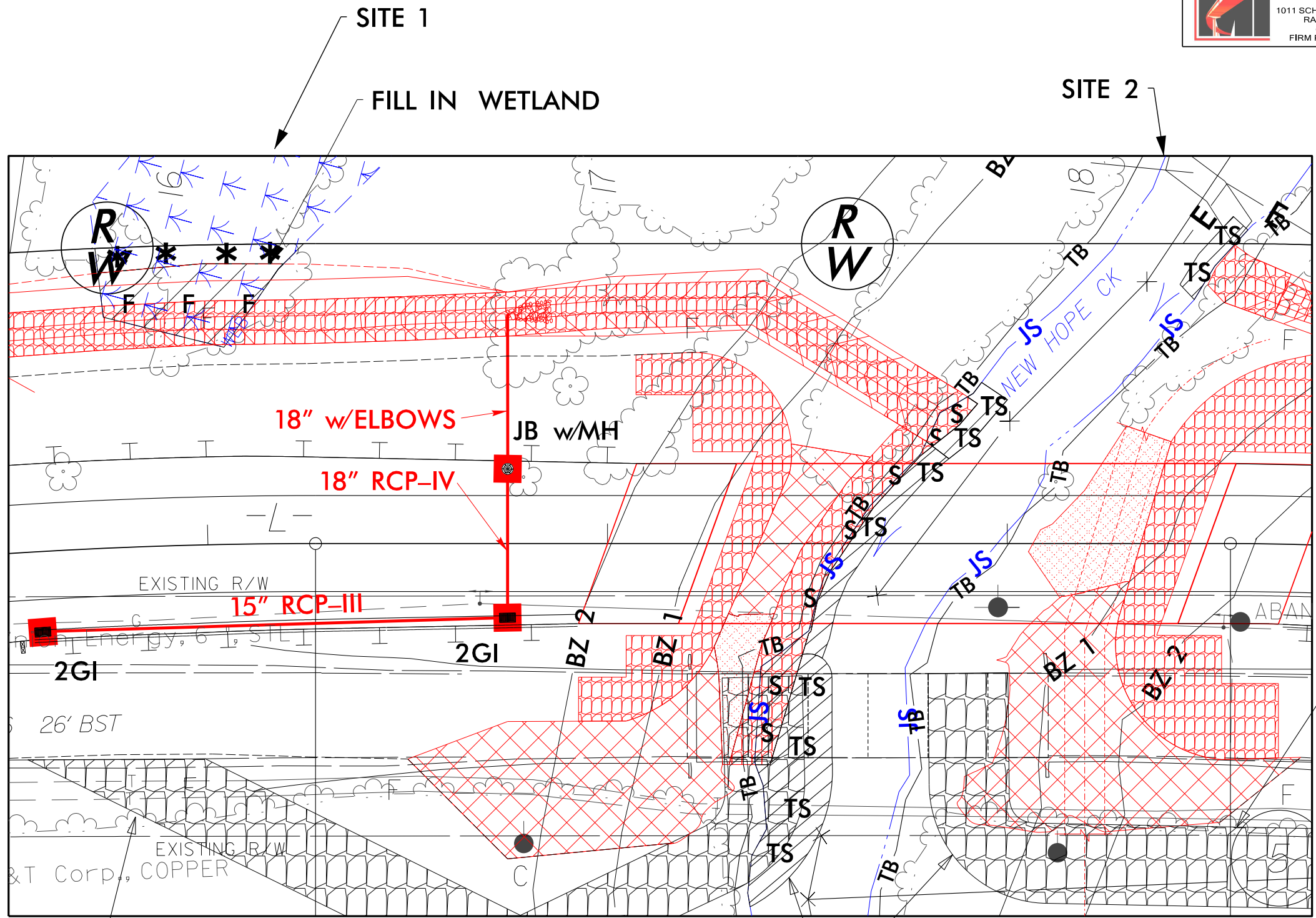
PROJECT REFERENCE NO. BR-0092	SHEET NO. 4
ORANGE COUNTY BRIDGE #37	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
 SHEET 4 OF 11



NAD 83/NA 2011



TEMPORARY
 20' WIDE
 CONST. ACCESS

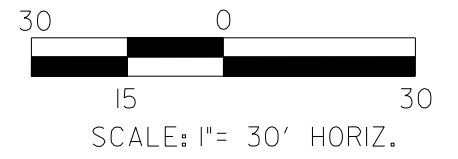
LEGEND

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)

TEMPORARY ROCK CAUSEWAY
 FOR EX. INT. BENT REMOVAL

TEMPORARY
 20' WIDE
 CONST. ACCESS

ENLARGEMENT PLAN
 SITES 1 & 2



REVISIONS

10/23/2024
 MTL ENGINEERING
 BR0092_Hyd_perm_wet_psh_04.dgn



PENNONI ASSOCIATES INC.
 5430 WADE PARK BLVD., SUITE 106,
 RALEIGH, NC 27607
 (919) 929-1173 NC LICENSE #F-1267



MI ENGINEERING
 1011 SCHAUB DRIVE, SUITE 100
 RALEIGH, NC 27606
 (919) 851-6606
 FIRM PE NUMBER : P-0671

PROJECT REFERENCE NO.	SHEET NO.
BR-0092	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

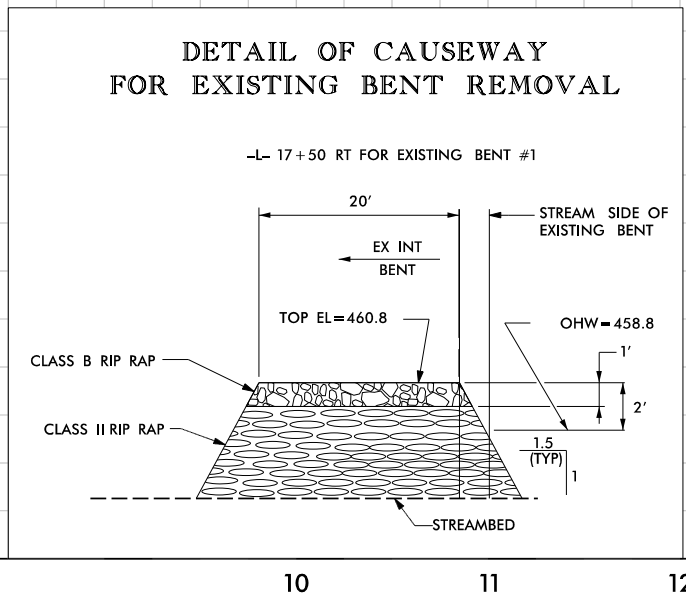
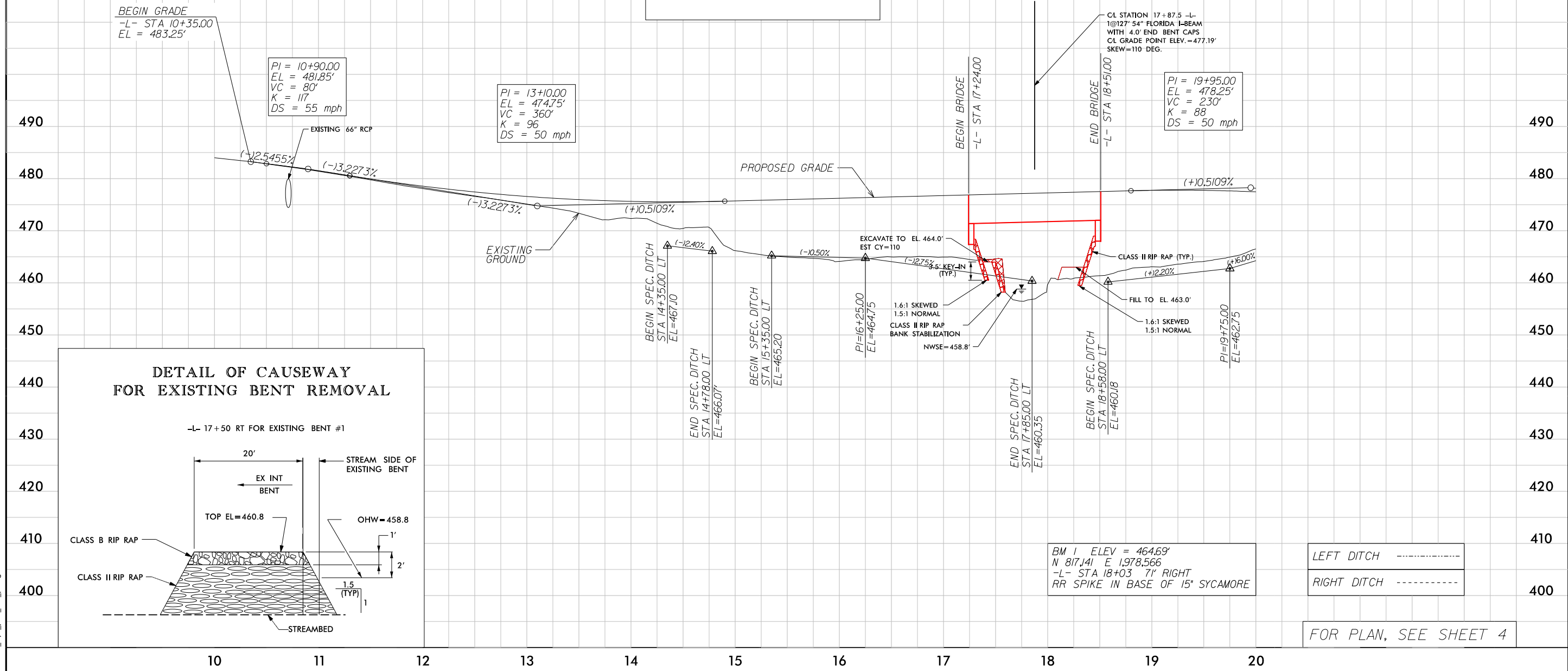
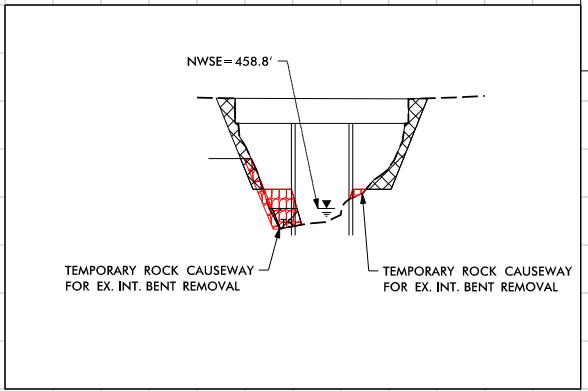
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
 SHEET 5 OF 11

ENGLISH

PIPE HYDRAULIC DATA	
66" RCP w/ 72" CSP EXTENSION	
-L- Sta. 10+71	
DRAINAGE AREA	= 65.8 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 110 CFS
DESIGN HW ELEVATION	= 479.1 FT
100 YEAR DISCHARGE	= 120 CFS
100 YEAR HW ELEVATION	= 479.4 FT
OVERTOPPING FREQUENCY	= +100 YRS
OVERTOPPING DISCHARGE	= 170 CFS
OVERTOPPING ELEVATION	= 480.6 FT

BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 4880 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 469.8 FT
BASE DISCHARGE	= 5990 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 470.8 FT
OVERTOPPING DISCHARGE	= 12000 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 475.8 FT
DRAINAGE AREA	= 15.3 SQ. MI.
DATE OF SURVEY	= 12-01-2021
W.S. ELEVATION AT DATE OF SURVEY	= 458.8 FT

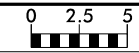


BM 1 ELEV = 464.69'
 N 817.41' E 1978.566'
 -L- STA 18+03 7" RIGHT
 RR SPIKE IN BASE OF 15' SYCAMORE

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

FOR PLAN, SEE SHEET 4

6/23/16



PROJ. REFERENCE NO.
BR-0092

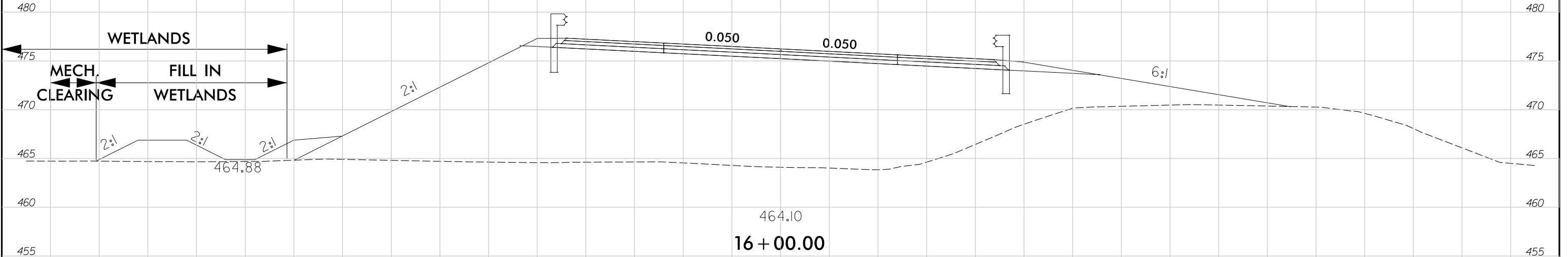
SHEET NO.
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PERMIT DRAWING
SHEET 6 OF 11



SITE 1



\$DATES
\$USERNAME\$
\$FILES\$

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PENNONI ASSOCIATES, INC.
5430 WADE PARK BLVD., SUITE 106,
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MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
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PROJECT REFERENCE NO.	SHEET NO.
BR-0092	5
RW SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

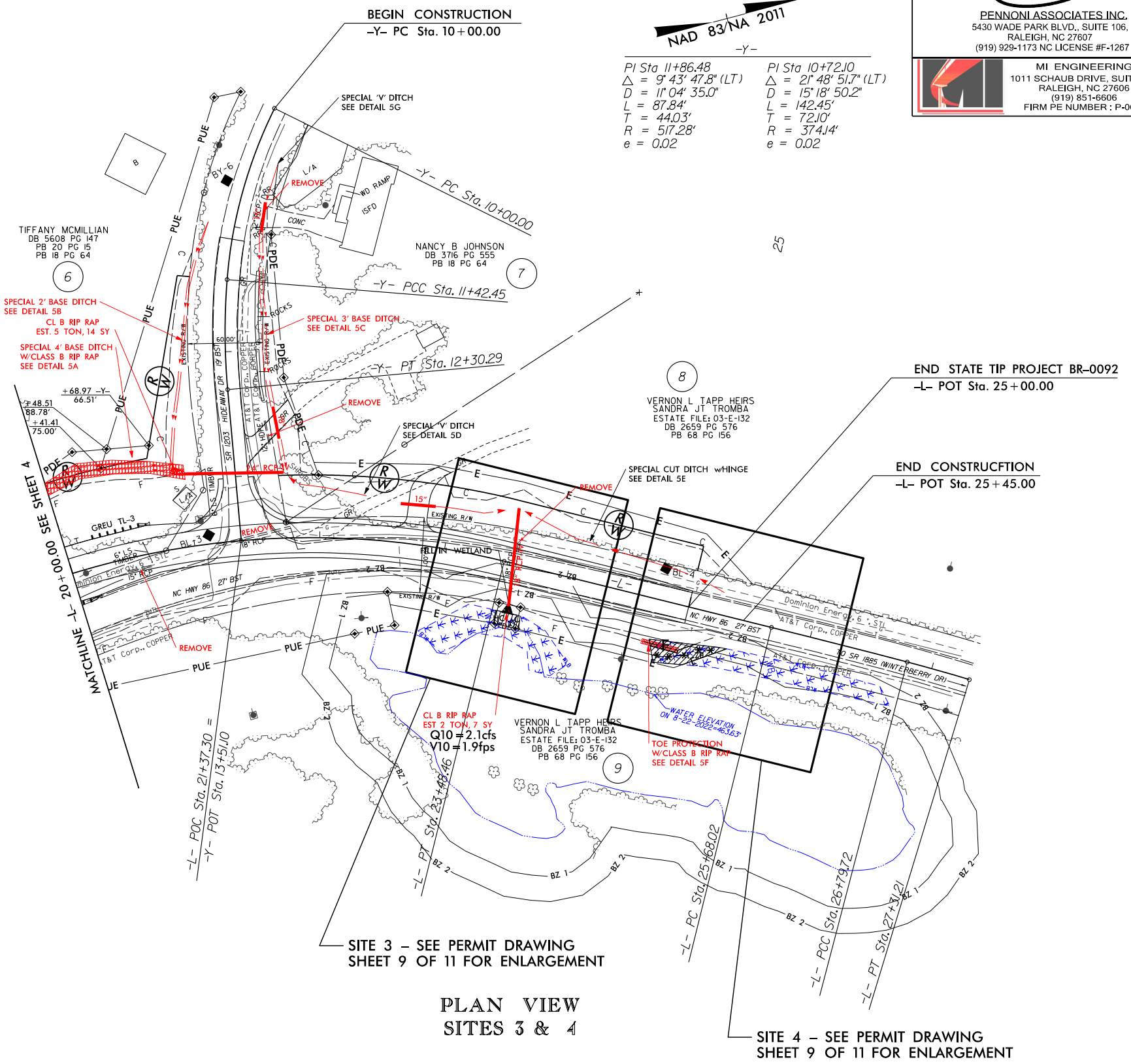
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**PERMIT DRAWING
SHEET 7 OF 11**



NAD 83/NA 2011
-Y-

PI Sta 11+86.48 Δ = 9° 43' 47.8" (LT) D = 1' 04' 35.0" L = 87.84' T = 44.03' R = 517.28' e = 0.02	PI Sta 10+72.10 Δ = 2° 48' 51.7" (LT) D = 15' 18' 50.2" L = 142.45' T = 72.10' R = 374.14' e = 0.02
---	---

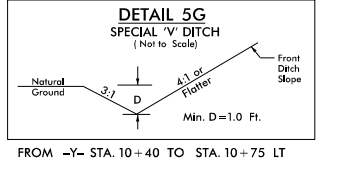
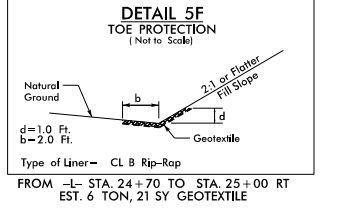
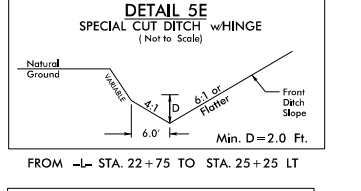
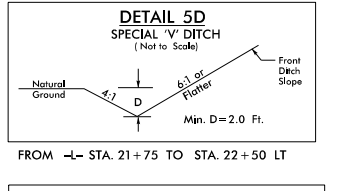
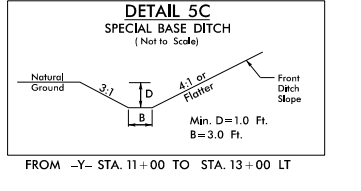
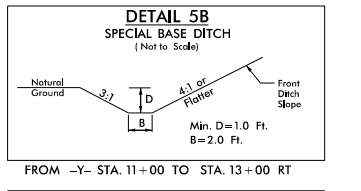
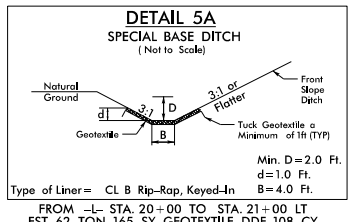
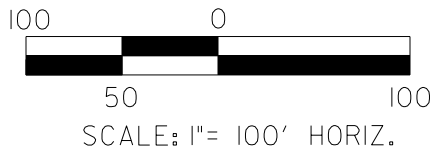


-L-

PI Sta 21+14.95 Δ = 43° 53' 50.6" (RT) D = 8° 54' 38.5" L = 492.64' T = 259.12' R = 643.00' e = 0.06 RO = 144' DS = 45 mph	PI Sta 26+23.87 Δ = 0° 48' 42.7" (RT) D = 0° 43' 36.5" L = 111.70' T = 55.85' R = 7,883.29'	PI Sta 27+05.47 Δ = 2° 11' 25.3" (RT) D = 4° 15' 14.6" L = 51.49' T = 25.75' R = 1,346.85'
--	--	---

LEGEND

- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)



FOR PROFILE, SEE SHEET 7

REVISIONS

10/23/2024
MI ENGINEERING
BR0092_Hyd-prm_wet.psh_05.dgn



PENNONI ASSOCIATES, INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #P-1267



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

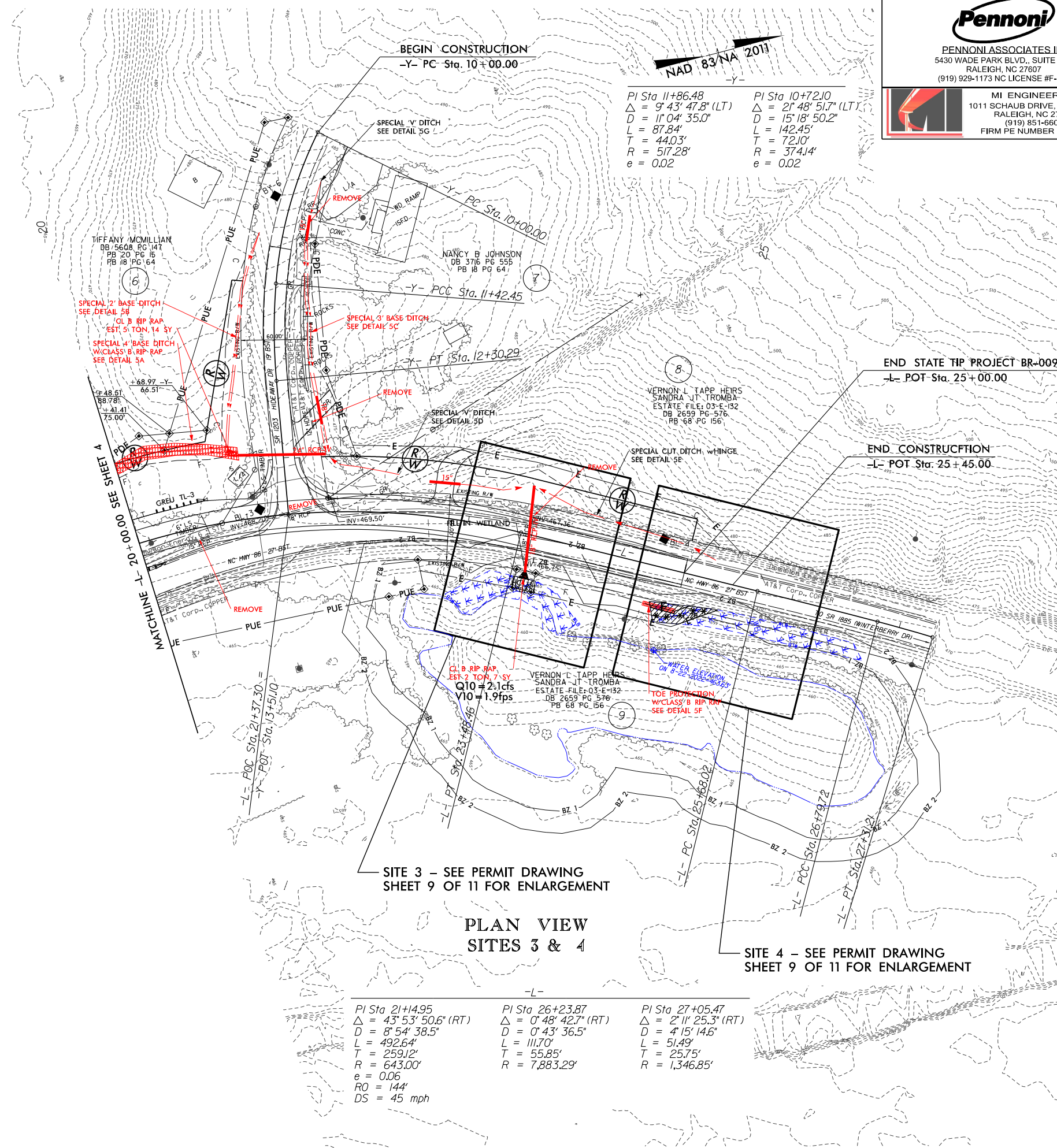
PROJECT REFERENCE NO.	SHEET NO.
BR-0092	5
RW SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 8 OF 11



REVISIONS



10/23/2024
MI ENGINEERING
BR0092_Hyd.prm_wet.psh_05_con.dgn



PENNONI ASSOCIATES, INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

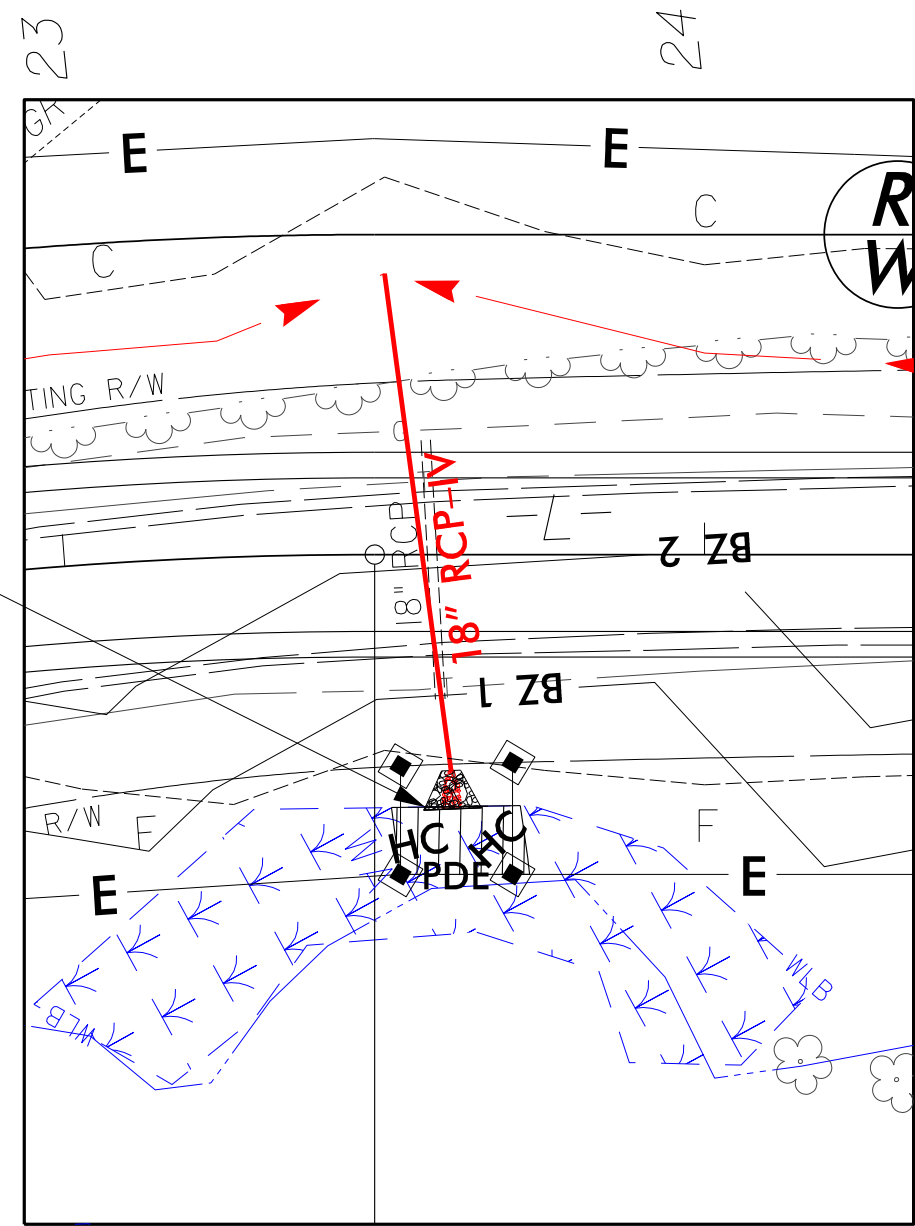
PROJECT REFERENCE NO. BR-0092	SHEET NO. 4
ORANGE COUNTY BRIDGE #37	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

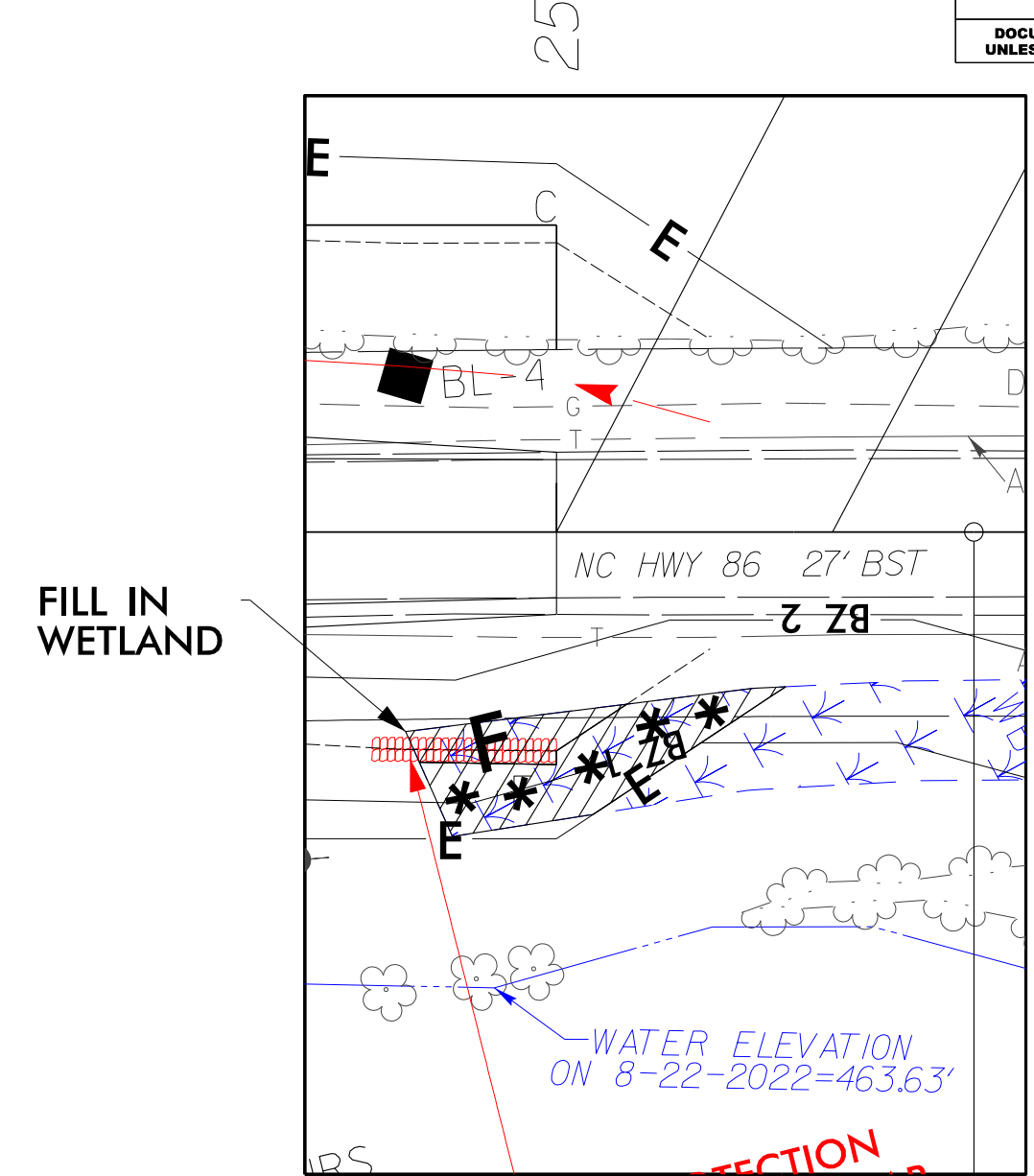
PERMIT DRAWING
SHEET 9 OF 11



REVISIONS



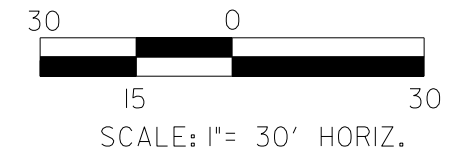
ENLARGEMENT PLAN
SITE 3



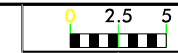
ENLARGEMENT PLAN
SITE 4

LEGEND

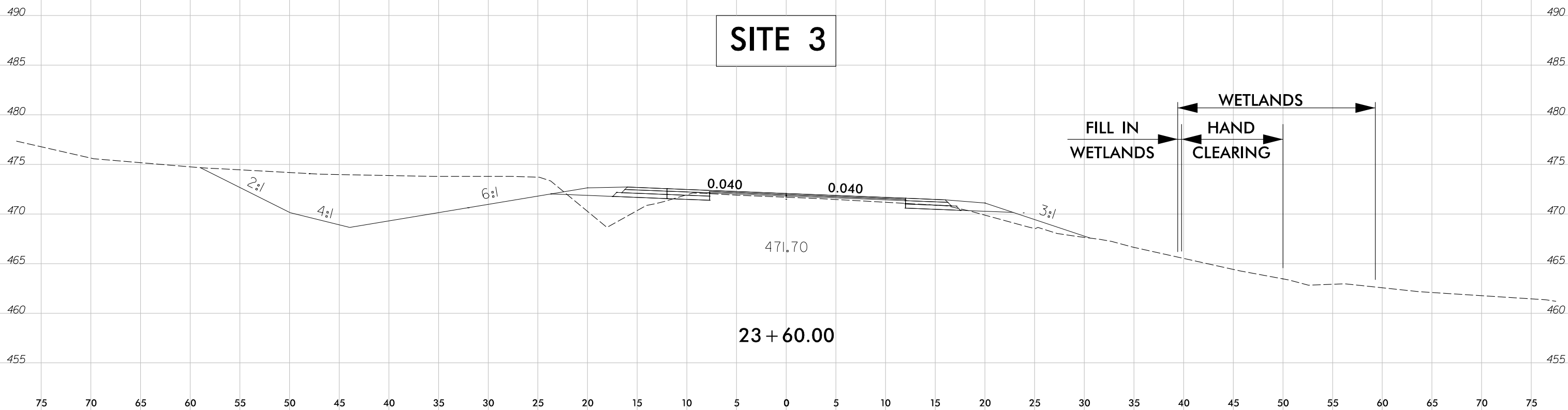
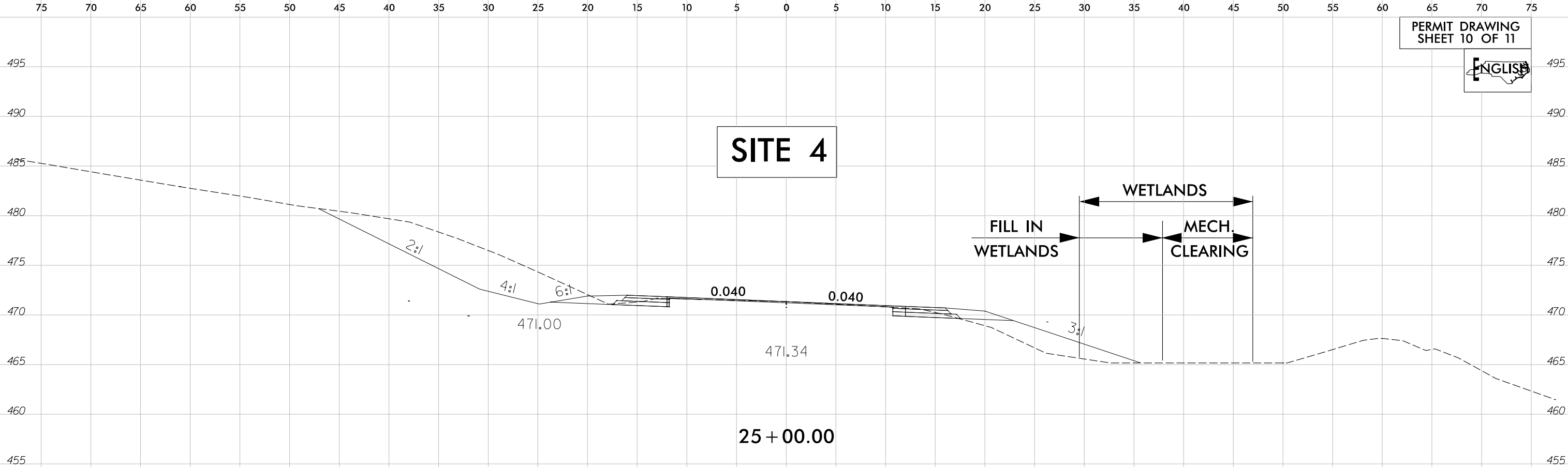
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)



10/23/2024
MI ENGINEERING
BR0092_Hyd.prm_wet.psh_05a.dgn



PERMIT DRAWING SHEET 10 OF 11



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	15+76 TO 16+24 LT.	FALSE CUT DITCH	0.02			< 0.01						
2	17+37 TO 17+85	BANK STABILIZATION						< 0.01		85		
2	17+80 TO 18+00 LT	RIP RAP AT EMBANKMENT						< 0.01	< 0.01	15	5	
2	18+43 TO 18+60 LT.	RIP RAP AT EMBANKMENT							< 0.01		22	
2	17+32 TO 17+49	CAUSEWAY for EX BT REMOVAL							0.02		35	
3	23+50 TO 23+73 RT.	18" RCP	< 0.01					< 0.01				
4	24+75 TO 25+37 RT.	Roadway Embankment	< 0.01			0.01						
TOTALS*:			0.02			0.02	< 0.01	< 0.01	0.03	100	62	0

*Rounded totals are sum of actual impacts

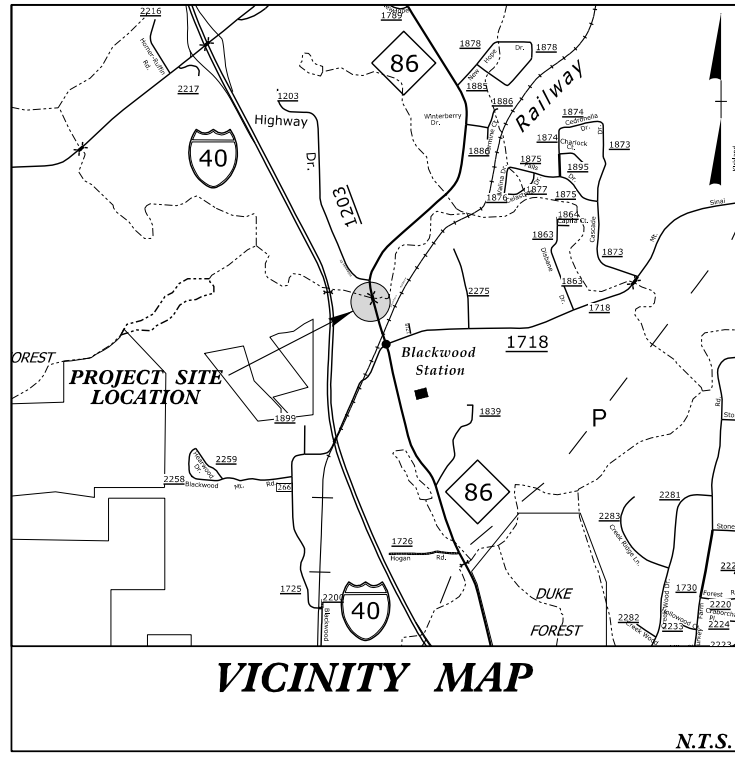
NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 10/23/2024
 ORANGE COUNTY
 TIP # BR-0092
 WBS # 67092.1.1
 SHEET 11 OF 11

09/26/24

TIP PROJECT: BR-0092

See Sheet 1A For Index of Sheets



THE PROJECT IS NOT WITHIN ANY MUNICIPAL LIMITS.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO LIMITS ESTABLISHED BY METHOD II.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ORANGE COUNTY

LOCATION: BRIDGE 67037 ON NC 86 OVER NEW HOPE CREEK

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

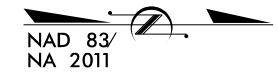
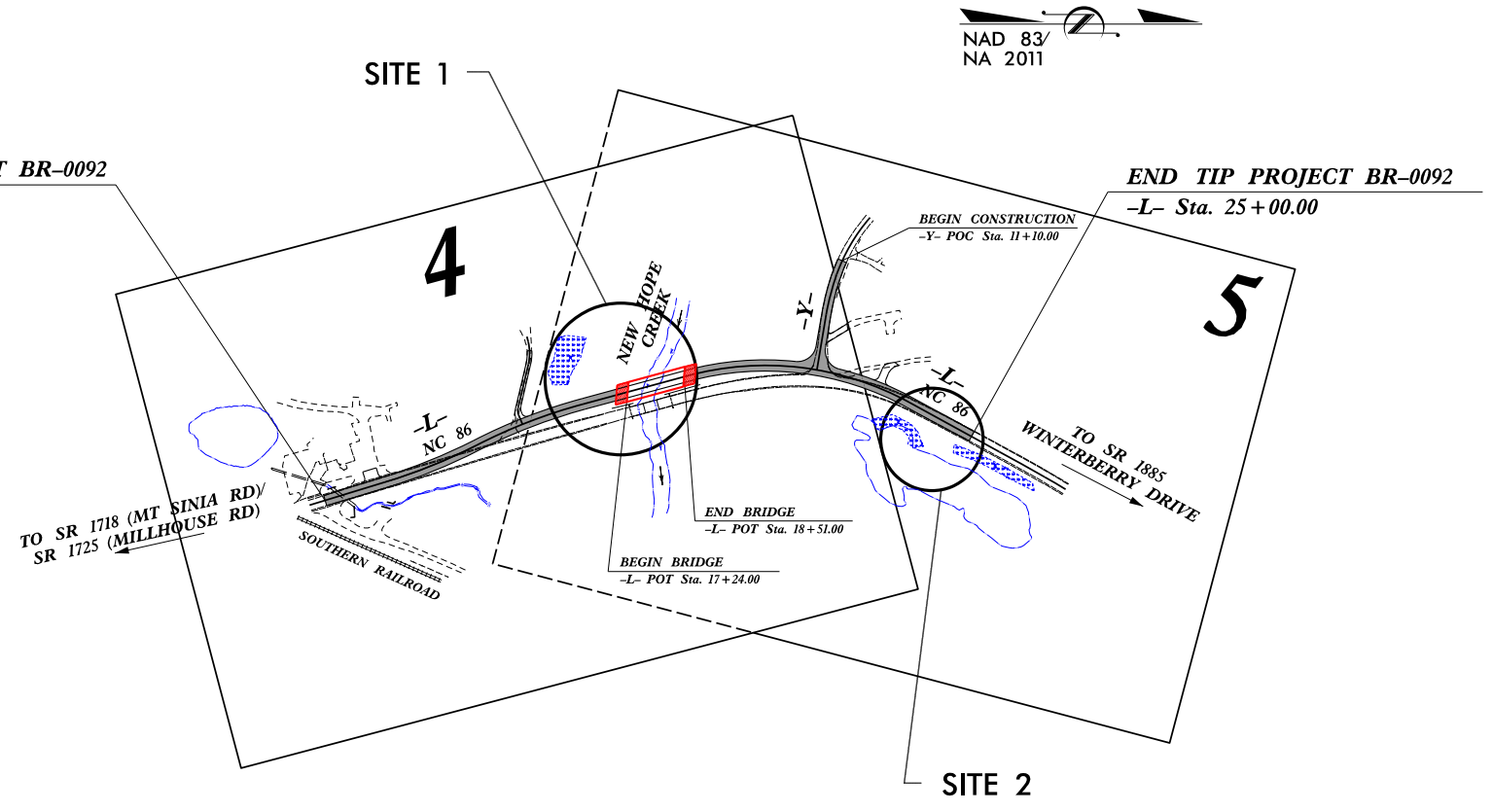
BUFFER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0092	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67092.1.1		P.E.	
		R/W & Utilities	
		Construction	

BUFFER DRAWING SHEET 1 OF 7

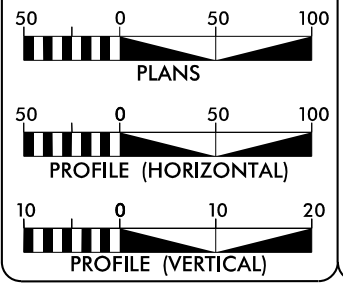


BEGIN TIP PROJECT BR-0092
-L- Sta. 10+35.00



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 6,700
ADT 2045 = 7,900
K = 12 %
D = 70 %
T = 4 % *
V = 50 MPH
* TTST = 1% DUAL 3%
FUNC CLASS = MINOR ARTERIAL REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0092 = 0.253 mi
LENGTH STRUCTURE TIP PROJECT BR-0092 = 0.024 mi
TOTAL LENGTH OF TIP PROJECT BR-0092 = 0.277 mi

PLANS PREPARED BY:



2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JANUARY 19, 2024

LETTING DATE:
AUGUST 19, 2025

PLANS PREPARED FOR:

DIVISION OF HIGHWAYS PROGRAM MANAGEMENT UNIT
1000 Brich Ridge Drive
Raleigh, NC 27610

BRIAN A. WILES, PE
PROJECT ENGINEER

BRYAN KEY, PE
NCDOT CONTACT PROGRAM MANAGEMENT UNIT

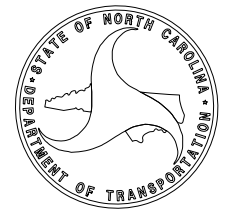
HYDRAULICS ENGINEER



SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



10/23/2024
MENGINEERING
BR0092_Hyd_pmm_buffer_tsh.dgn



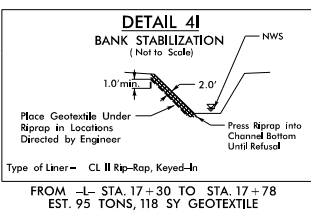
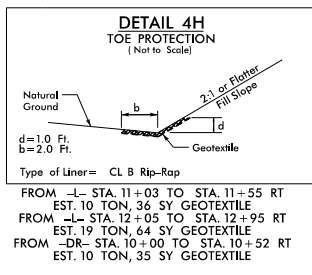
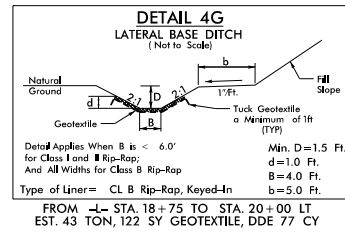
PENNONI ASSOCIATES INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

PROJECT REFERENCE NO.	SHEET NO.
BR-0092	4
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

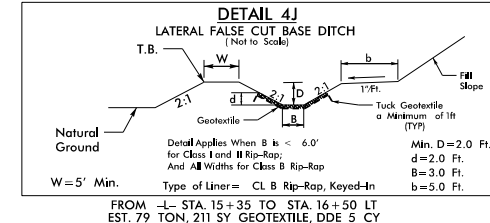
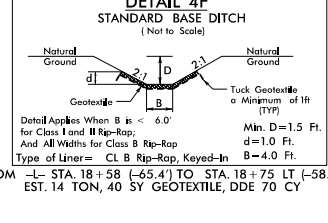
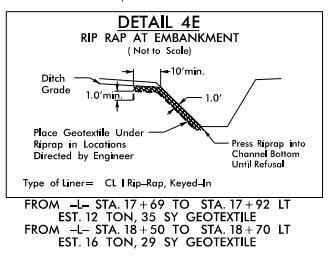
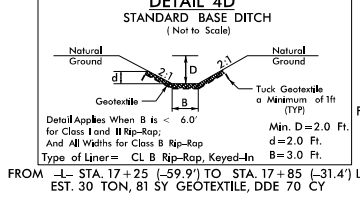
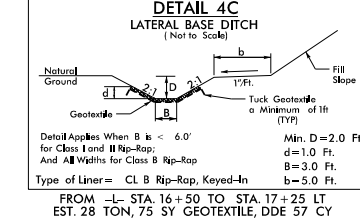
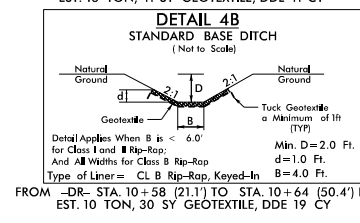
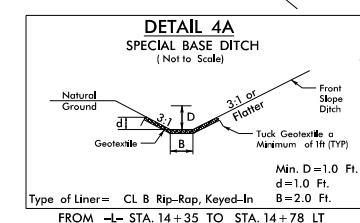
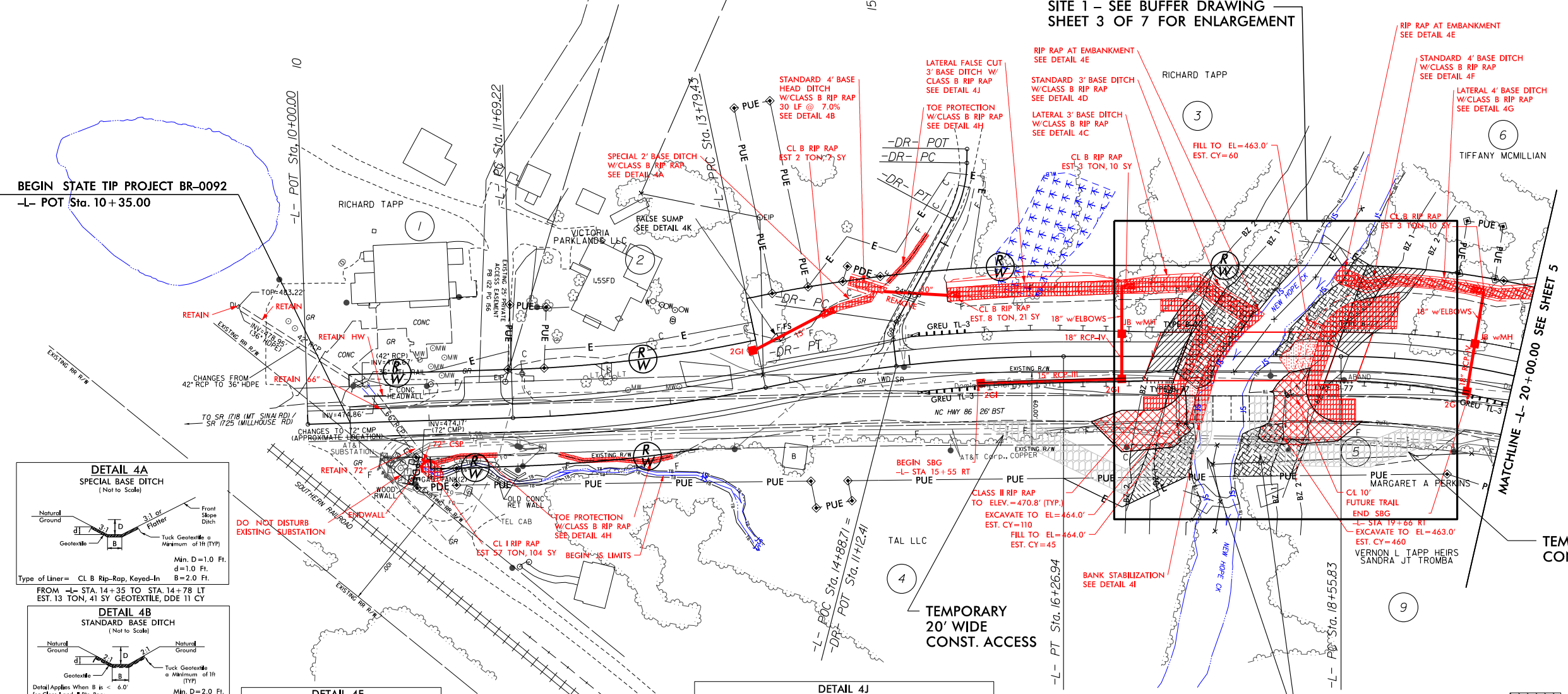
BUFFER DRAWING
SHEET 2 OF 7



POT Sta 9+18.98
N 75° 36' 01.9"
PC Sta 9+30.51
PT Sta 9+78.82
PC Sta 10+75.04
PT Sta 10+90.38
N 68° 10' 28.5"
POT Sta 11+12.41

PI Sta 9+55.15
Δ = 27° 40' 54.6" (RT)
D = 57° 17' 44.8"
L = 48.31'
T = 24.64'
R = 100.00'

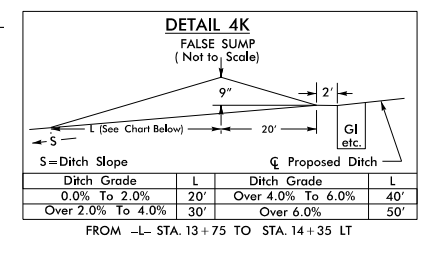
PI Sta 10+82.95
Δ = 35° 06' 28.0" (LT)
D = 229° 10' 59.2"
L = 15.32'
T = 7.91'
R = 25.00'



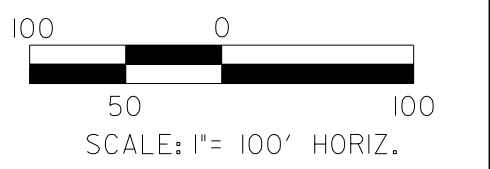
PI Sta 12+74.60
Δ = 10° 07' 16.3" (LT)
D = 4° 48' 53.2"
L = 210.21'
T = 105.38'
R = 1,190.00'
e = 0.05
RO = 120'
DS = 45 mph

PI Sta 15+03.63
Δ = 17° 55' 02.0" (RT)
D = 4° 48' 53.2"
L = 247.51'
T = 124.20'
R = 1,190.00'
e = 0.05
RO = 120'
DS = 45 mph

PI Sta 21+14.95
Δ = 43° 53' 50.6" (RT)
D = 8° 54' 38.5"
L = 492.64'
T = 259.12'
R = 643.00'
e = 0.06
RO = 144'
DS = 45 mph



- LEGEND**
- ALLOWABLE IMPACTS ZONE 2
 - ALLOWABLE IMPACTS ZONE 1
 - MITIGABLE IMPACTS ZONE 1
 - MITIGABLE IMPACTS ZONE 2



FOR PROFILE, SEE SHEET 6

REVISIONS

10/23/2024
MI ENGINEERING
BR0092_Htd.prm.buf.fer.psh.04.dgn



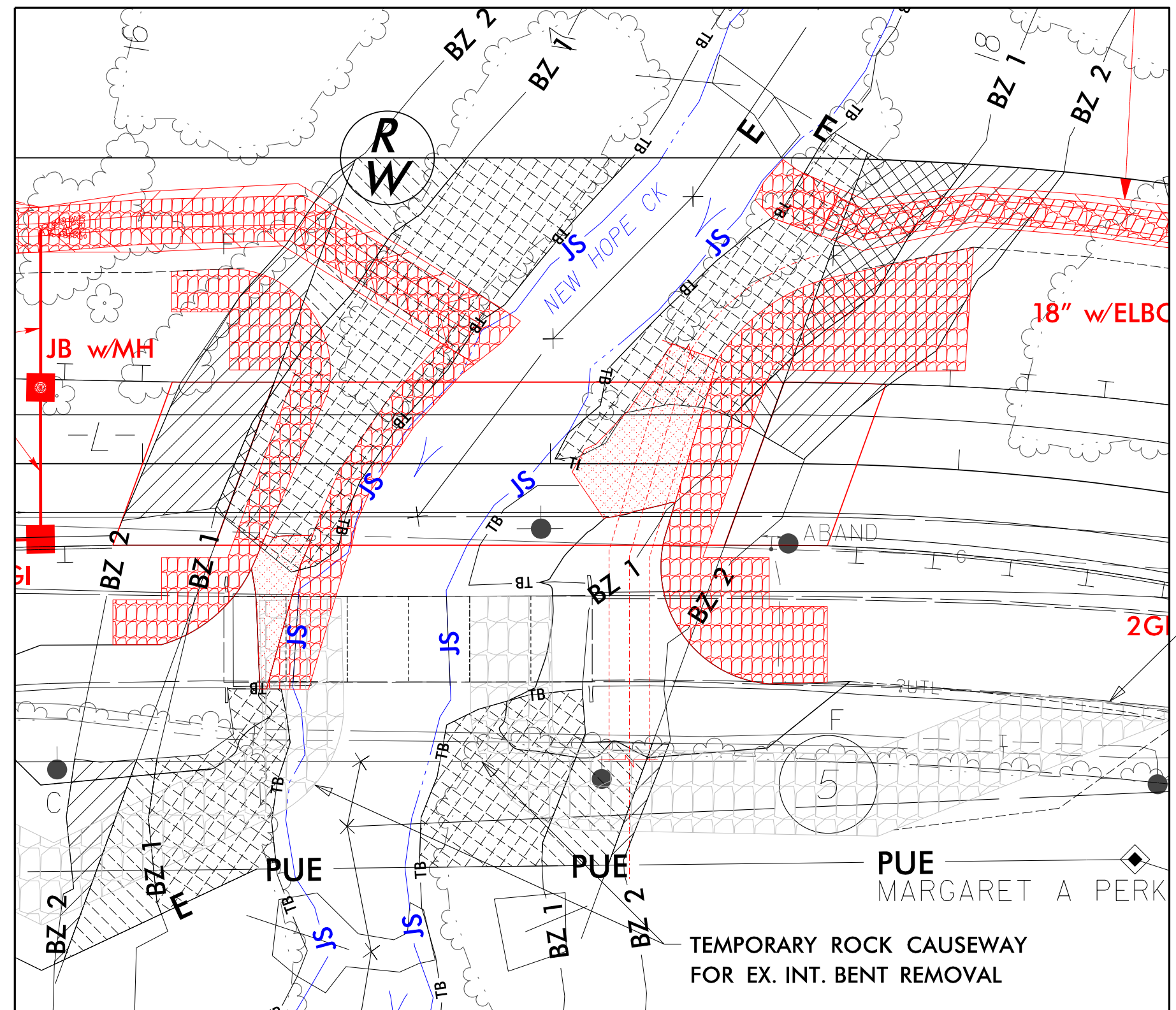
PENNONI ASSOCIATES INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

PROJECT REFERENCE NO. <i>BR-0092</i>	SHEET NO. 4
ORANGE COUNTY BRIDGE #37	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

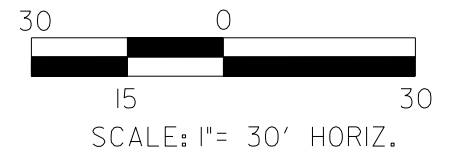
BUFFER DRAWING
SHEET 3 OF 7



TEMPORARY
20' WIDE
CONST. ACCESS

LEGEND

- ALLOWABLE IMPACTS ZONE 2
- ALLOWABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2



ENLARGEMENT PLAN
SITE 1

10/23/2024
MI ENGINEERING
BR0092_Hyd_prm_bufFer_psh_04.dgn



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RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267

MI ENGINEERING
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RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

PROJECT REFERENCE NO.	SHEET NO.
BR-0092	5
RW SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

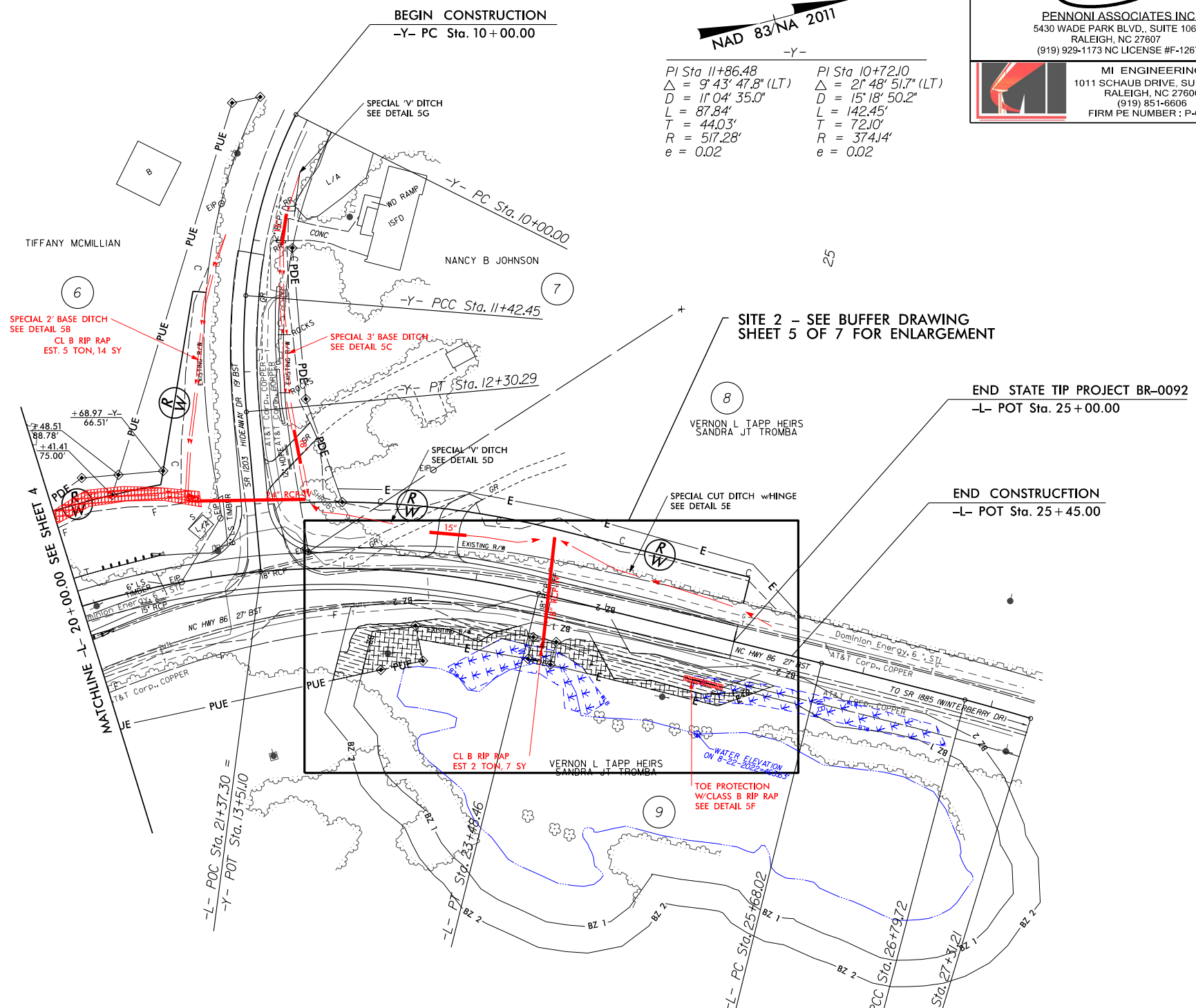
BUFFER DRAWING
SHEET 4 OF 7



NAD 83/NA 2011

PI Sta 11+86.48 Δ = 9° 43' 47.8" (LT)
D = 11' 04' 35.0"
L = 87.84'
T = 44.03'
R = 517.28'
e = 0.02

PI Sta 10+72.10 Δ = 21° 48' 51.7" (LT)
D = 15' 18' 50.2"
L = 142.45'
T = 72.10'
R = 374.14'
e = 0.02



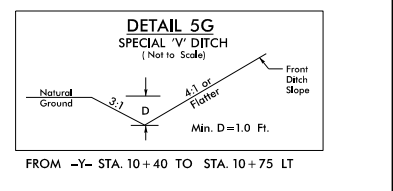
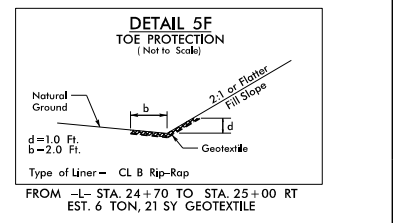
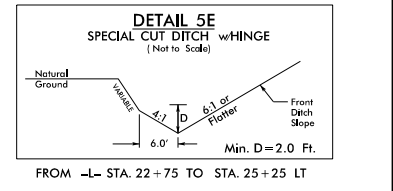
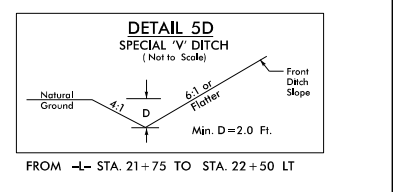
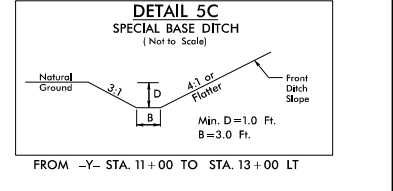
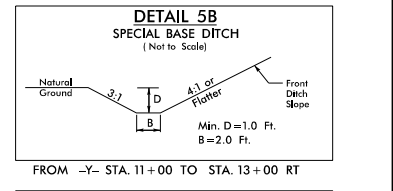
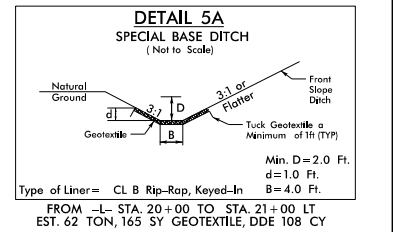
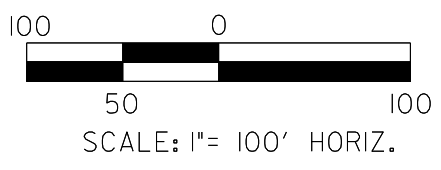
PLAN VIEW
SITE 2

-L-

PI Sta 21+14.95 Δ = 43° 53' 50.6" (RT) D = 8' 54' 38.5" L = 492.64' T = 259.12' R = 643.00' e = 0.06 RO = 144' DS = 45 mph	PI Sta 26+23.87 Δ = 0° 48' 42.7" (RT) D = 0' 43' 36.5" L = 111.70' T = 55.85' R = 7,883.29'	PI Sta 27+05.47 Δ = 2° 11' 25.3" (RT) D = 4' 15' 14.6" L = 51.49' T = 25.75' R = 1,346.85'
--	--	---

LEGEND

- ALLOWABLE IMPACTS ZONE 2
- ALLOWABLE IMPACTS ZONE 1



FOR PROFILE, SEE SHEET 7

REVISIONS

10/23/2024
MI ENGINEERING
BR0092_Hyd.prm_buf.er_psh_05.dgn



PENNONI ASSOCIATES INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607
(919) 929-1173 NC LICENSE #F-1267



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

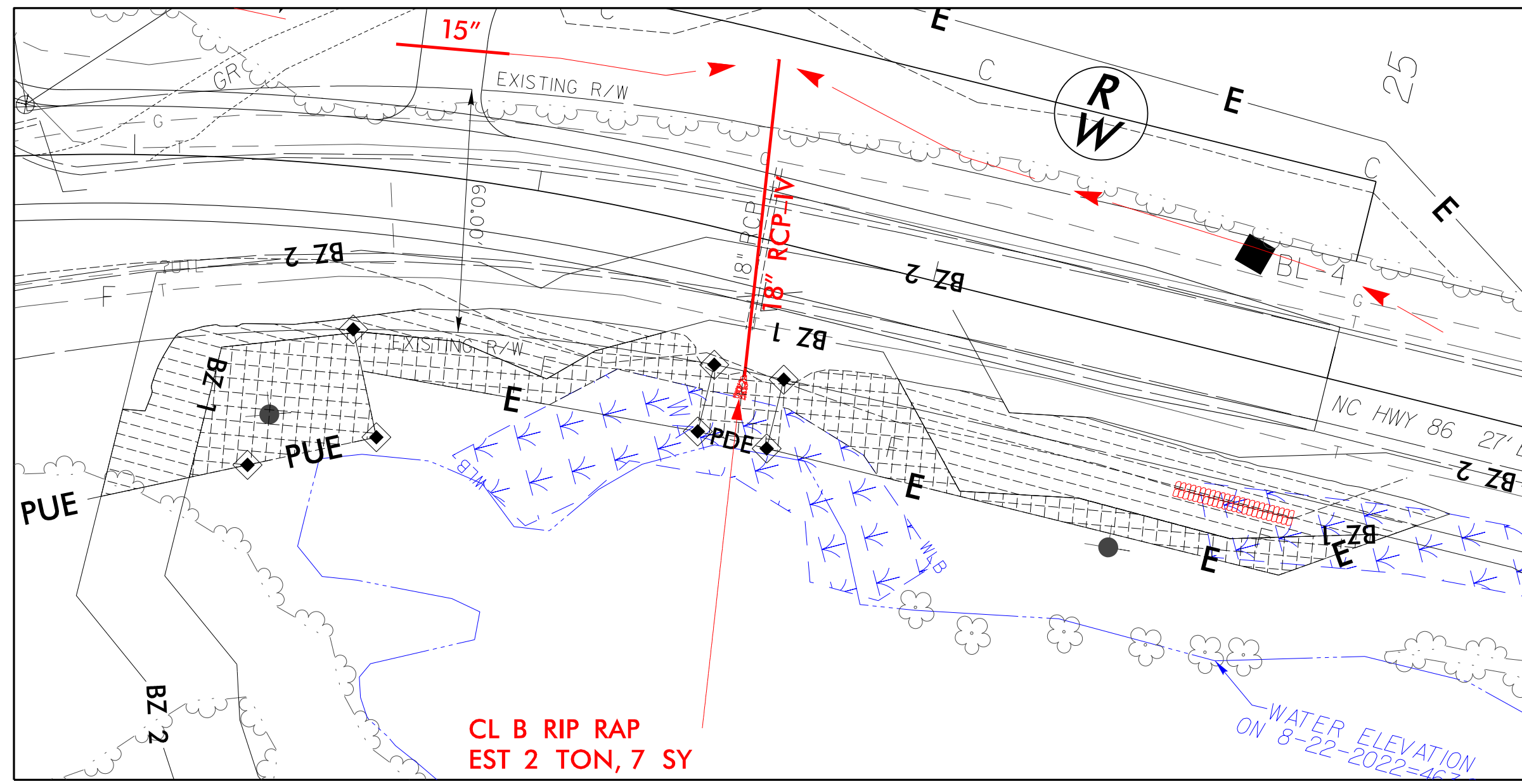
PROJECT REFERENCE NO. BR-0092	SHEET NO. 4
ORANGE COUNTY BRIDGE #37	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 5 OF 7





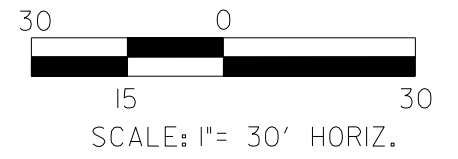
NAD 83/NA 2011



ENLARGEMENT PLAN SITE 2

LEGEND

-  ALLOWABLE IMPACTS ZONE 2
-  ALLOWABLE IMPACTS ZONE 1



10/23/2024
MI ENGINEERING
BR0092_Hyd_prm_buffer_psh_05a.dgn

RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1	16+95 TO 18+20 LT.	1 @ 127'-0", 54" FLORIDA I-BEAM (SW Quad)	X	X		3526	742	4268	60	1406	1466		
1	18+14 TO 19+19 LT.	1 @ 127'-0", 54" FLORIDA I-BEAM (NW Quad)	X	X		1947	98	2045	738	1728	2466		
1	16+79 TO 17+36 RT.	1 @ 127'-0", 54" FLORIDA I-BEAM (SE Quad)	X	X		1225	525	1750	0	404	404		
1	17+68 TO 18+29 RT.	1 @ 127'-0", 54" FLORIDA I-BEAM (NE Quad)	X	X		1308	534	1842	0	109	109		
2	21+92 TO 25+30 RT.	ROADWAY			X	3502	3649	7151					
TOTALS*:						11508	5548	17056	798	3647	4445	0	0

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 10/23/24
 ORANGE COUNTY
 TIP # BR-0092
 WBS # 67092.1.1
 SHEET 6 OF 7

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)	WETLANDS IN BUFFERS	
		ZONE 1 (ft ²)	ZONE 2 (ft ²)
2	23+14 TO 23+98 RT.	215	0
2	24+75 TO 25+30 RT.	216	534
TOTAL:		431	534

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 10/23/24
 ORANGE COUNTY
 TIP# BR-0092
 WBS # 67092.1.1
 SHEET 7 OF 7

Mitigation

JOSH STEIN
 Governor
 D. REID WILSON
 Secretary
 MARC RECKTENWALD
 Director



January 22, 2025

Mr. Jamie Lancaster, P.E.
 Environmental Analysis Unit
 North Carolina Department of Transportation
 1598 Mail Service Center
 Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: Mitigation Acceptance Letter: **TIP BR-0092**, Replace Bridge 670037 on NC 86 over New Hope Creek, Orange County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the mitigation for the subject project. Based on the information supplied by you on January 21, 2025, the impacts are located in CU 03030002 of the Cape Fear River basin as follows:

Stream and Wetlands	Service Area	Stream			Wetlands		
		Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Cape Fear 03030002	0	0	15.000	0.048	0	0

*Some of the impacts may be proposed to be mitigated at various ratios. See permit application for details. DMS will provide the amount of stream and wetland mitigation included in the environmental permits.

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWR's Buffer Authorization Certification, DMS will transfer funds from the NCDOT Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its riparian buffer mitigation responsibility for TIP BR-0092. Subsequently, DMS will conduct a review of current NCDOT ILF Program mitigation projects in the river basin to determine if available buffer mitigation credits exist. If there are buffer mitigation credits available, then the Riparian Restoration Buffer Fund will purchase the appropriate amount of buffer mitigation credits from NCDOT ILF Program.




Mr. Lancaster
January 22, 2025
Page Two
NCDOT TIP BR-0092

Buffer	Service Area	Buffer Impacts		
		Zone 1	Zone 2	TOTAL
Impacts	Cape Fear Jordan Upper New Hope Arm	798.000	3,647.000	4,445.000

The impacts and associated mitigation needs were not projected by the NCDOT in the 2024 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 in accordance with 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,



Elizabeth A. Harmon
DMS NCDOT ILF Coordinator

cc: Mr. Scott Jones, USACE
Ms. Kristie Carpenter, NCDWR
Mr. Brad Chilton, NCDOT – EAU
File: BR-0092



Protected Species/ Section 7

Environmental Analysis Requisition Request

Requisition Number:

ENVA-988

Title:

BR-0092 Payment to NCWRC Aquatic Species Fund

County:

Orange

Office Location:

NA

Cost Estimate:

\$25,000.00

Method of Contract:

Requisition/PO/Non-PO

Funding Type:

Preliminary Eng

ReqID:**Requisition Description:**

Payment to the NCWRC NCASF for BR-0092 - Replacement of Bridge 670037 on NC 86 over New Hope Creek

Justification:

Payment to the NCWRC NCASF per the Eastern Mussel PBO and Interagency Agreement (8101) for BR-0092 to keep NCDOT in compliance with Section 7 of the Endangered Species Act.

Estimated Let Date:**Estimated Completion Date:****Revision Description:****Created:**

Jamie J. Lancaster on 04-Oct-2024

Unit Approval:

Jamie J. Lancaster approved on 04-Oct-2024 with these comments: Please make sure Project Manager is aware of cost and that appropriate funds are in project WBS element

Review History:

- Reviewed by: Jamie J. Lancaster
- Review Date: 04-Oct-2024
- Review Comments: Approving Unit Approved



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

October 15, 2024

Chief Financial Officer
North Carolina Wildlife Resource Commission
1721 Mail Service Center
Raleigh, NC 27699-1721

SUBJECT: Contribution Verification Letter for Eastern Mussels on NCDOT Projects
BR-0092, BP5.R108.3, BP5.R100.3 and 4B.105111 Under Interagency Agreement
(8101) in the Second Quarter of 2024-2025 Fiscal Year.

Mr. Cottle,
NCDOT has contributed to the North Carolina Non-Game Aquatic Species Fund (NCNASF) using the Interagency Agreement (8101) in the amount of \$100,000 for NCDOT projects: BR-0092, BP5.R108.3, BP5.R100.3 and 4B.105111. Project details including species affected, and amount of contribution per project are provided below.

Table of NCDOT Project Details

Lat/Long	County	Stream Name	10 Digit HUC	Project ID	Structure Number	Road Number (Name)	Species Affected	Amount
35.995033, -79.072516	Orange	New Hope Creek	0303000206	BR-0092	670037	NC 86	AP	25,000
35.837534, -78.360038	Wake	Little River	0302020115	BP5.R108.3	910180	SR 2320 (Riley Hill Rd.)	AP, DWM,YL,GF*	25,000
36.264365, -78.519597	Granville	Tabb's Creek	0302010102	BP5.R100.3	380012	SR 1609 (Ed Harris Rd)	AP, DWM, YL	25,000
35.734647, -78.282602	Johnston	Little River	0302020115	4B.105111	500023	NC 231	AP, DWM, YL, GF*	25,000
Total Contribution using Interagency Agreement (8101) and NCDOT Function Area 2PB1								\$100,000

Species Abbreviations: Atlantic Pigtoe (AP), Dwarf Wedgemussel (DWM), and Yellow Lance (YL). Coordination to add Green Floater (GF*) is in progress.

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

Telephone: (919) 707-6000
Fax: (919) 250-4224
Customer Service: 1-877-368-4968

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

Website: ncdot.gov

Subject NCDOT Projects BR-0092, BP5.R108.3, BP5.R100.3 and 4B.105111.

The updated table of completed NCDOT contributions for Eastern Mussels will be posted by the end of current fiscal year quarter.

If you have any questions or need additional information, please contact me at (919) 707-6120 or jgray@ncdot.gov.

Sincerely,

DocuSigned by:
Jared Gray 10/15/2024
D0AE171EC6754AB...

Jared Gray

By the electronic signatures below, NCWRC acknowledges the contribution of \$100,000 has been received and credited to the NCNASF, for the subject NCDOT project(s).

DocuSigned by:
Jason Cottle _____ 10/18/2024
E14CEB7A62724D... Jason Cottle Date

Signed by:
Shauna Glover _____ 10/21/2024
93CC6D8AA93047C... Shauna Glover Date

Signed by:
Shannon Deaton _____ 10/21/2024
04343772928... Shannon Deaton Date

Archaeology



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 Team.



PROJECT INFORMATION

Project No: BR-0092 **County:** Orange
WBS No: 67092.1.1 **Document:** State MCC
Federal Aid No: na **Funding:** State Federal
Federal Permit Required? Yes No **Permit Type:** USACE

Project Description:

The project calls for the replacement of Bridge No. 37 on NC 86 over the New Hope Creek in Orange County (TIP BR-0092). A “No archaeological Survey Required” form was originally submitted on October 9, 2018. The APE has since expanded in the northern half of the project area. The former PA form is now invalid and replaced by the current form. The revised archaeological Area of Potential Effects (APE) for the project is defined as an approximately 1,700-foot (518.16 m) long corridor running 950 feet (289.56 m) north and 750 feet (228.60m) south from the center of the bridge. The APE corridor is approximately 400 feet (121.92 m) wide extending 200 feet (60.96 m) from either side of the centerline. The APE also extends 400 feet (121.92 m) along SR 1203 (Hideaway Road) from its intersection with NC 86. This extension is approximately 160 feet (48.77 m) wide extending 80 feet (24.38 m) from either side of the centerline.

Although this project is state funded, federal permits are anticipated. Therefore, this archaeological review was conducted pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation’s Regulations for Compliance (36 CFR Part 800).

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The proposed Bridge 37 replacement project is located north of Chapel Hill and south of Hillsborough in Orange County, North Carolina. The project area is plotted at the northern edge of the Chapel Hill USGS 7.5' topographic quadrangle (Figure 1).

A site file search was first conducted by Casey Kirby at the Office of State Archaeology (OSA) on September 17, 2018. This review identified no previously recorded archaeological sites with the project limits, but nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683) are found within a mile of bridge. An updated file search for carried out on October 15, 2021. No new sites have been recorded in region. According to the North Carolina State Historic Preservation Office (SHPO) online data base (HPOWEB 2021), no National Register eligible or listed historic architectural resources are within the APE. However, the project is within the Blackwood Station Historic District (OR 487), which is only a Surveyed Area consisting of an early 1900s community. All the structures (OR 3174–3178) within the district are recorded as Surveyed Only and are not likely to yield intact and significant archaeological deposits. Furthermore, New Hope Market (OR 3174) and the former Allen and Son Barbecue restaurant (OR 3178) are surrounded by pavement and gravel. Topographic maps, USDA soil survey maps, aerial photographs (NC One Map), and historic maps (North Carolina maps website) were further examined for information on environmental and cultural variables that may have contributed to prehistoric or historic settlement within the project limits and to assess the level of ground disturbance.

Bridge 37 and NC 86 cross New Hope Creek north to south (Figure 2). New Hope drains east and is part of the Cape Fear drainage basin. The project area resides along the New Hope floodplain and the adjacent eroded hillsides. The area appears minimal disturbed, but a buried sewer line runs along the westside of the road. Ground disturbance from its recent construction was widespread. The property east of the road is ponded or saturated with water with disturbance from the railway at the southern end. Ground disturbance from the former service station (currently the New Hope Market/restaurant) and residential property are present to the southwest. Property surrounding the service station is a mix of pavement and gravel.

The USDA soil survey map for the county identifies four soil types including Chewacla loam (Ch), Enon loam (EnC), Georgeville silt loam (GeC), and Herndon silt loam (HrC) (USDA NRCS 2018) (see Figure 2). Chewacla loam makes up the entire floodplain. This series is nearly level and somewhat poorly drained. It is also subject to frequent flooding. No significant archaeological sites will be encountered on this series due to persistent wetness. The remaining three series compose the hillsides. These are well drained soils with slope of less than 12 percent. Although they are typically tested for archaeological sites, the soils within the APE have been affected by ground disturbing activities including soil erosion. Significant resources are not expected.

Several archaeological investigations have been carried out in the vicinity of the current project, which have resulted in the identification of nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683). All of these sites are prehistoric in origin and have yet to be assessed for the National Register. Additional sites are probable in the region, but the current APE is not likely to yield positive results due to disturbance from the sewer line and former service station west of NC 86 and wet soils to the east.

A map review was also conducted. The earliest in which the project area could be placed was the 1891 *Map of Orange County* by George Tate and Theophilus Moore (Figure 3). This map plots the New Chapel Hill Road that would one day become NC 86. It depicts the railway, New Hope Creek, the Blackwood Post Office, and Robeson Station. Road traces along NC 86 suggest that the earlier road was likely west of the current road; however at the current project area, the former road ran adjacent too or beneath NC 86. A log house situated in the southeast corner of the APE may be the old Post Office, but this seems unlikely. The Post Office was probably southwest of this structure near the railroad and has since been demolition. Robeson Station is placed south of the tracks, just outside of the project limits, but no evidence of these former structure can be seen in the landscape. It is very possible due to the schematic nature of this map that both structures and the road are incorrectly plotted. Regardless, significant archaeological deposits associated with these structures are not expected to be intact. The later circa 1910 *Rural Deliver Routes for Orange County* shows a more detail picture (United States Post Office ca. 1910) (Figure 4). It illustrates road following similar alignments as today with two nearby structures. The first structure west of the railway is located at the former service station (Blackwood Station), and likely represents an early version of this business. The second structure is to the east of the railway and is outside of the project limits. Subsequent maps provide no further information

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

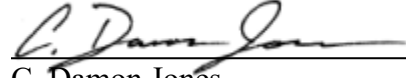
The proposed Bridge 37 replacement project in Orange County is not likely to impact any significant archaeological resources. This is due ground disturbance west of the road and wet soils to the east. As a result, there is a low probability for archaeological sites. No further archaeological work is recommended for this project. But if design plans change to affect subsurface areas beyond the defined APE, further archaeological consultation might be necessary.

This project falls within a North Carolina County in which the Catawba Nation have expressed an interest. We recommend that you ensure that this documentation is forwarded to the tribe using the process described in the current NCDOT Tribal Protocol and PA Procedures Manual.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
Other:

FINDING BY NCDOT ARCHAEOLOGIST: NO ARCHAEOLOGY SURVEY REQUIRED



C. Damon Jones
NCDOT ARCHAEOLOGIST II

November 16, 2021

Date

REFERENCES CITED

HPOWEB

- 2021 North Carolina State Historic Preservation Office GIS Web Service.
<https://nc.maps.arcgis.com/apps/webappviewer/index.html?id=79ea671ebdcc45639f0860257d5f5ed7>. Accessed October 15, 2021.
- Tate, George, and Theophilus Moore
1891 *Map of Orange County, North Carolina*. George Tate, Bingham School, North Carolina. On file at North Carolina Collections, University of North Carolina, Chapel Hill.
- United States Department of Agriculture Natural Resources Conservation Services (USDA NRCS)
2021 Orange County Soil Survey. Available online at
<http://webosilsurvey.nrcs.usda.gov/app/>. Accessed October 15, 2021.
- United States Post Office
ca. 1910 *Rural Delivery Routes of Orange County, North Carolina*. United States Post Office Department, Washington, D.C. On file at North Carolina Collections, University of North Carolina, Chapel Hill.
- United States Geological Survey (USGS)
2013 Chapel Hill, North Carolina 7.5 minute quadrangle map.

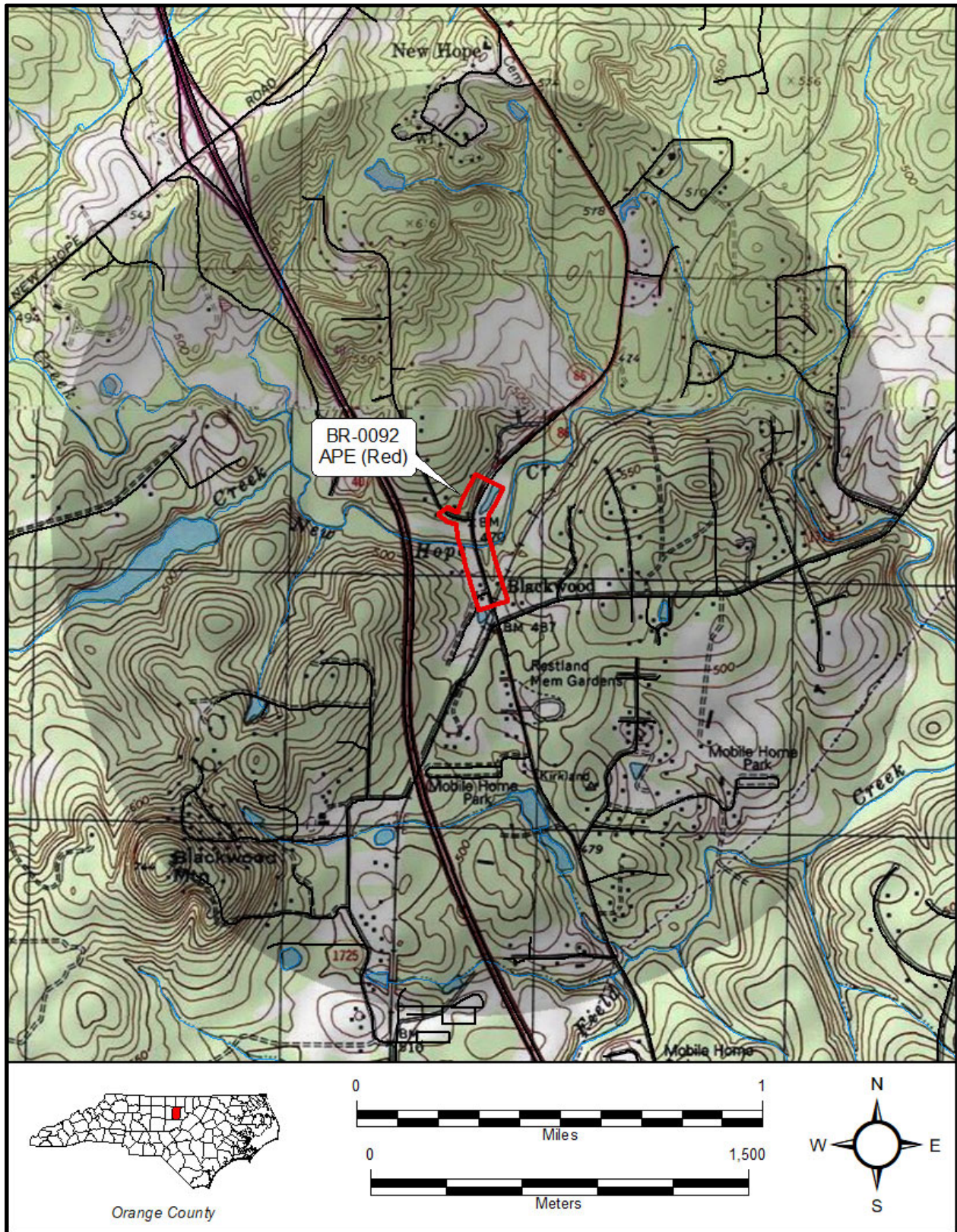


Figure 1. Topographic Setting of the Project Area, Chapel Hill (2013), NC USGS 7.5 Topographic Quadrangle.

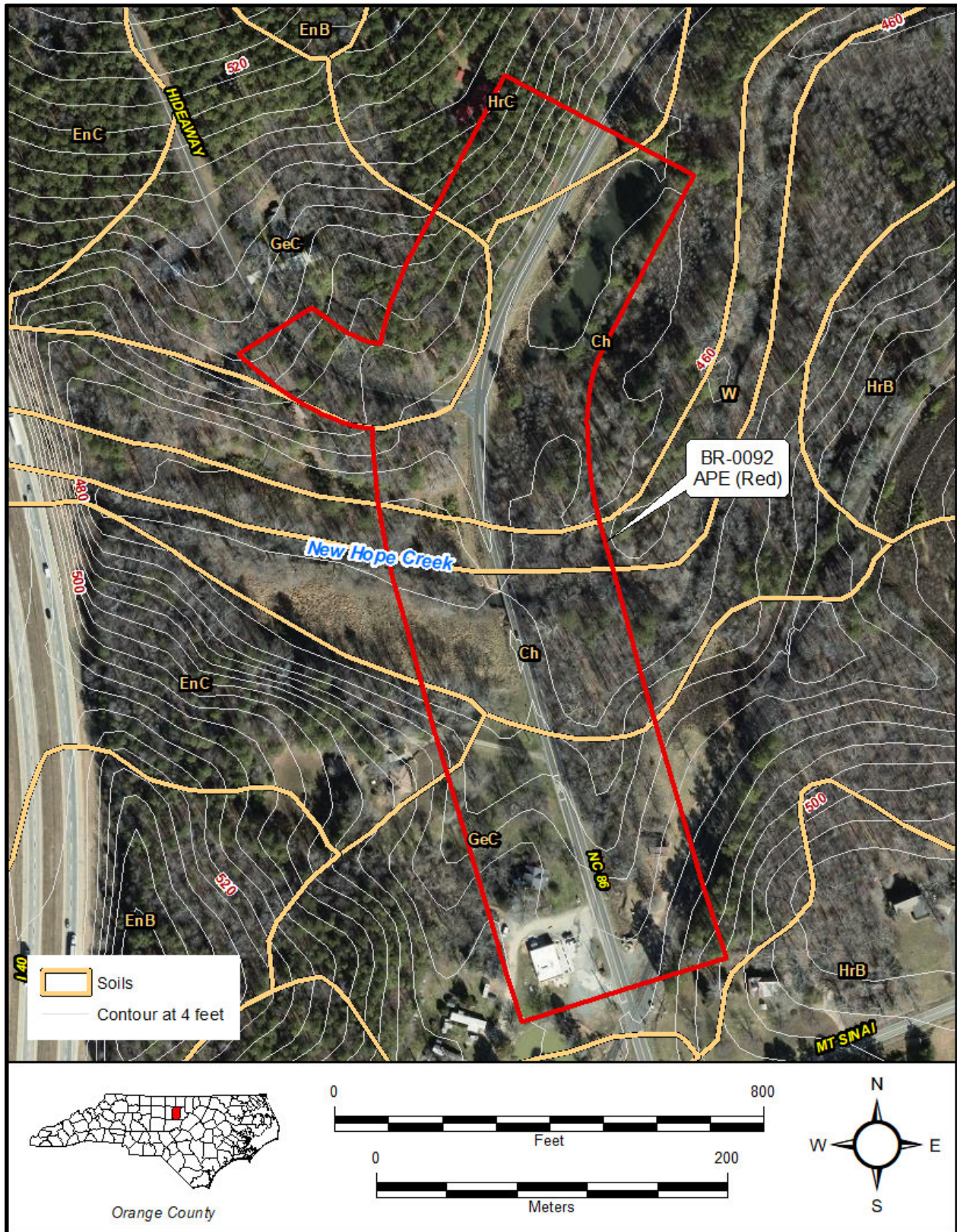


Figure 2. Aerial photograph of the APE showing development, contours, and soils.

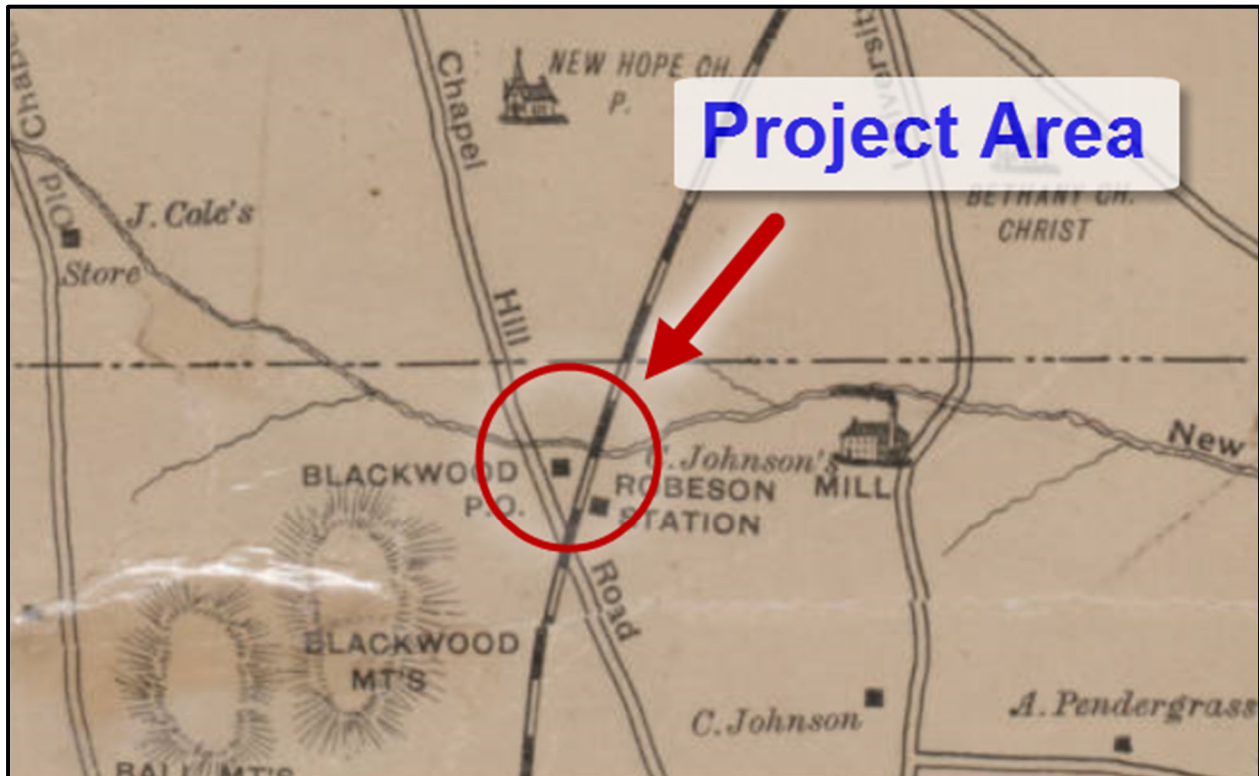


Figure 3. The 1891 *Map of Orange County* by George Tate and Theophilus Moore showing the location of the project area.

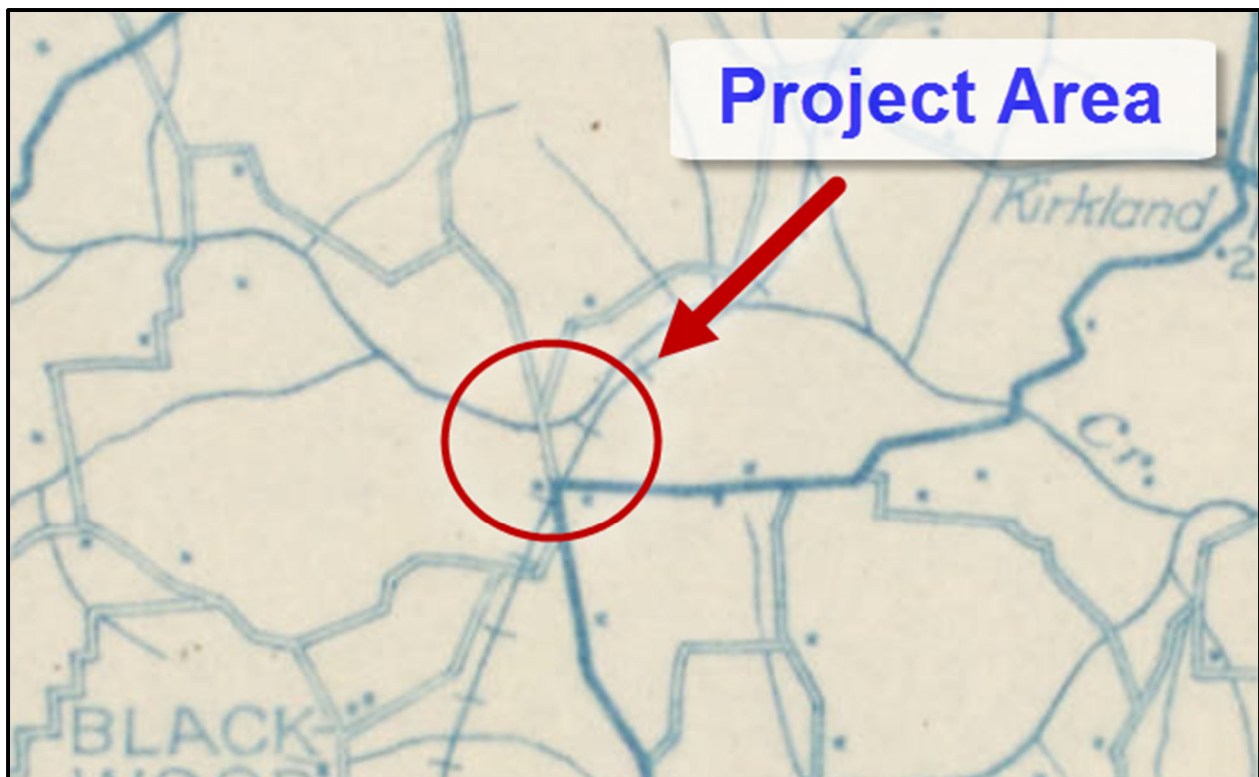


Figure 4. The circa 1910 *Rural Deliver Routes for Orange County* showing the location of the project area.

Historic Architecture and Landscapes

18-09-0065
Updated

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-0092	County:	Orange
WBS No.:	67092.1.1	Document Type:	FCE
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
<u>Project Description:</u> Replace Bridge Number 37 on NC 86 over New Hope Creek.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of HPOGIS web service was undertaken on November 17, 2021. This project was investigated and a No Historic Properties Present or Affected form was submitted on September 20, 2019. The project study area has been expanded and in October 2021 it was resubmitted for screening. Based on this review, there are no existing NR, DE, LL, SL or SS properties in the expanded project area. There is one structure in the expanded Area of Potential Effects (APE) which are greater than 50 years of age. The structure is a house constructed in 1971. The house does not have the architectural significance or integrity to warrant further evaluation. No Survey 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:

HPOGIS and County Tax Data provide reliable information regarding structures in the APE. These combined utilities are considered valid for purposes of determining the likelihood of historic resources being present.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

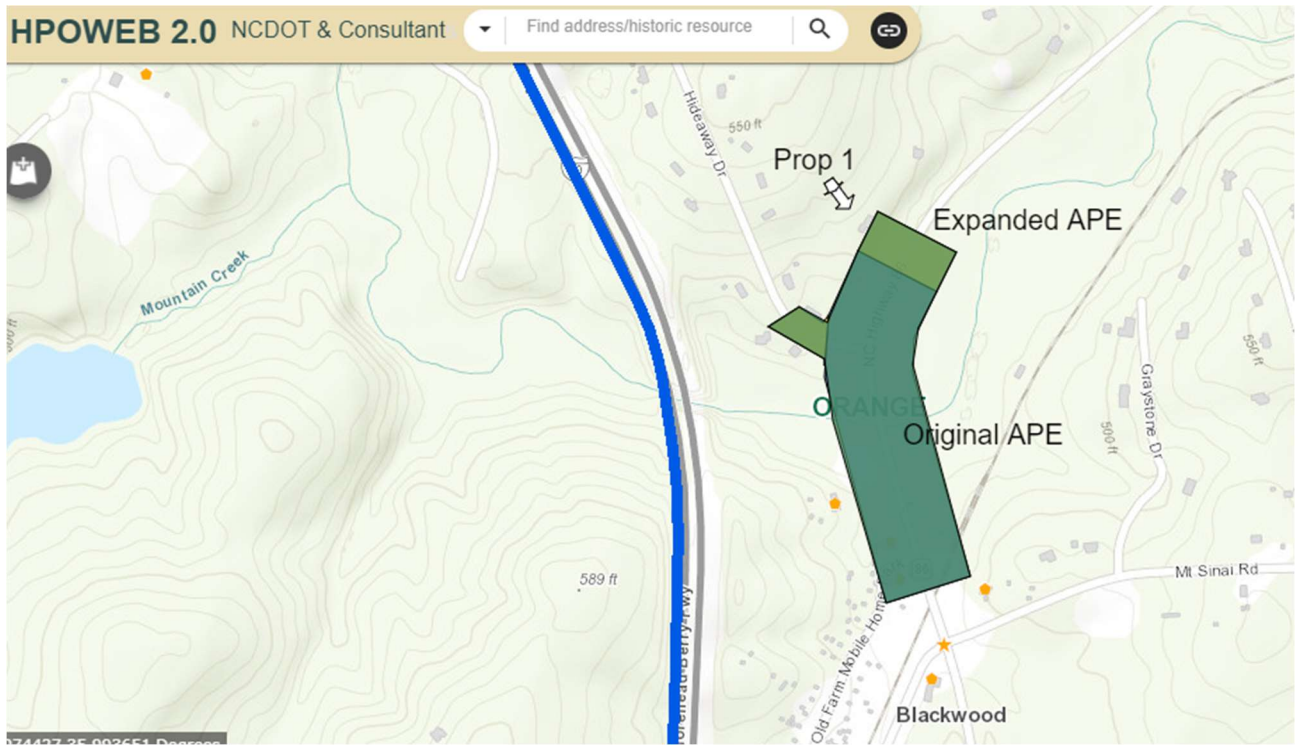
Historic Architecture and Landscapes -- NO SURVEY REQUIRED

Shelby Reap

November 17, 2021

NCDOT Architectural Historian

Date



BR-0092



House 1971

Tribal Coordination



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

January 3, 2022

Dr. Wenonah Haire
Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, SC 29730

Dear Dr. Haire:

The North Carolina Department of Transportation (NCDOT) Structures Management Unit is beginning the project development, environmental, and engineering studies for the following State Transportation Improvement Program (STIP) Projects:

- STIP B-6038: Replace Bridge No. 780155 on NC 14/NC 87 over Norfolk Southern Railroad in Rockingham County, NC (36.514689, -79.747875).
- STIP BR-0080: Replace Bridge No. 400331 on Sullivan Street over US 29/US 70/US 220 in Guilford County, NC (36.079942, -79.767203).
- STIP BR-0092: Replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County, NC (35.995047, -79.072511).

The US Army Corps of Engineers (USACE) is the lead federal agency for STIP BR-0080 and BR-0092, and the Federal Highway Administration (FHWA) for STIP B-6038, for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). Vicinity maps are attached along with documentation recommending no archaeological surveys to be required.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts of these projects. Your comments may be used in the preparation of NEPA/State Environmental Policy Act (SEPA) Environmental Documents.

In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed projects. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties.

Please respond by February 11, 2022 so that your comments can be used in the scoping of the projects. If you have any questions concerning these projects, or would like any additional information, please contact me at (919) 707-6442 or by email at dstutts@ncdot.gov. Thank you for your assistance in this project development process.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
STRUCTURES MANAGEMENT UNIT
1581 MAIL SERVICE CENTER
RALEIGH, NC 27699-1581

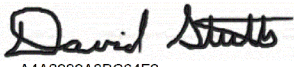
Telephone: (919) 707-6400
Fax: (919) 250-4082
Customer Service: 1-877-368-4968

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27699-1581

Website: www.ncdot.gov

Thank you.

DocuSigned by:


A4A2999A8BC64F2...
DAVID STATTS, PE

NCDOT Project Engineer – PEF/Program Mgt.

cc: Matt Wilkerson, NCDOT Archaeology Team Leader
David Bailey, USACE
Suzette Morales, FHWA



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

January 3, 2022

Kaleigh Pollak
Monacan Indian Nation Tribal Office
357 S. Main Street
Amherst, VA 24521

Dear Ms. Pollak:

The North Carolina Department of Transportation (NCDOT) Structures Management Unit is beginning the project development, environmental, and engineering studies for the following State Transportation Improvement Program (STIP) Projects:

- STIP B-6038: Replace Bridge No. 780155 on NC 14/NC 87 over Norfolk Southern Railroad in Rockingham County, NC (36.514689, -79.747875).
- STIP BR-0092: Replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County, NC (35.995047, -79.072511).

The US Army Corps of Engineers (USACE) is the lead federal agency for STIP BR-0092 and the Federal Highway Administration (FHWA) for STIP B-6038 for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). Vicinity maps are attached along with documentation recommending no archaeological survey to be required.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts of the project. Your comments may be used in the preparation of a NEPA/State Environmental Policy Act (SEPA) Environmental Document.

In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed projects. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties.

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Thank you,
DocuSigned by:

A handwritten signature in black ink that reads "David Stutts".

A4A2999A8BC64F2...

NCDOT Project Engineer – PEF/Program Mgt.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
STRUCTURES MANAGEMENT UNIT
1581 MAIL SERVICE CENTER
RALEIGH, NC 27699-1581

Telephone: (919) 707-6400
Fax: (919) 250-4082
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27699-1581

cc: Matt Wilkerson, NCDOT Archaeology Team Leader
David Bailey, USACE
Suzette Morales, FHWA



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

January 3, 2022

Vicki Jeffries
Tribal Administrator
Occaneechi Band of the Saponi Nation
PO Box 356
Mebane, NC 27302

Dear Ms. Jeffries:

The North Carolina Department of Transportation (NCDOT) Structures Management Unit is beginning the project development, environmental, and engineering studies for the following State Transportation Improvement Program (STIP) Projects:

- STIP BR-0080: Replace Bridge No. 400331 on Sullivan Street over US 29/US 70/US 220 in Guilford County, NC (36.079942, -79.767203).
- STIP BR-0092: Replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County, NC (35.995047, -79.072511).

The US Army Corps of Engineers (USACE) is the lead federal agency for STIP BR-0080 and BR-0092 for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). Vicinity maps are attached along with documentation recommending no archaeological survey to be required.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts of the project. Your comments may be used in the preparation of a NEPA/State Environmental Policy Act (SEPA) Environmental Document.

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Thank you.
DocuSigned by:

A handwritten signature in black ink that reads "David Stutts".

A4A2999A8BC64F2...

NCDOT Project Engineer – PEF/Program Mgt.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
STRUCTURES MANAGEMENT UNIT
1581 MAIL SERVICE CENTER
RALEIGH, NC 27699-1581

Telephone: (919) 707-6400
Fax: (919) 250-4082
Customer Service: 1-877-368-4968

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27699-1581

Website: www.ncdot.gov

cc: Matt Wilkerson, NCDOT Archaeology Team Leader
David Bailey, USACE
Suzette Morales, FHWA



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 Team.



PROJECT INFORMATION

Project No: BR-0092 **County:** Orange
WBS No: 67092.1.1 **Document:** State MCC
Federal Aid No: na **Funding:** State Federal
Federal Permit Required? Yes No **Permit Type:** USACE

Project Description:

The project calls for the replacement of Bridge No. 37 on NC 86 over the New Hope Creek in Orange County (TIP BR-0092). A “No archaeological Survey Required” form was originally submitted on October 9, 2018. The APE has since expanded in the northern half of the project area. The former PA form is now invalid and replaced by the current form. The revised archaeological Area of Potential Effects (APE) for the project is defined as an approximately 1,700-foot (518.16 m) long corridor running 950 feet (289.56 m) north and 750 feet (228.60m) south from the center of the bridge. The APE corridor is approximately 400 feet (121.92 m) wide extending 200 feet (60.96 m) from either side of the centerline. The APE also extends 400 feet (121.92 m) along SR 1203 (Hideaway Road) from its intersection with NC 86. This extension is approximately 160 feet (48.77 m) wide extending 80 feet (24.38 m) from either side of the centerline.

Although this project is state funded, federal permits are anticipated. Therefore, this archaeological review was conducted pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation’s Regulations for Compliance (36 CFR Part 800).

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The proposed Bridge 37 replacement project is located north of Chapel Hill and south of Hillsborough in Orange County, North Carolina. The project area is plotted at the northern edge of the Chapel Hill USGS 7.5' topographic quadrangle (Figure 1).

A site file search was first conducted by Casey Kirby at the Office of State Archaeology (OSA) on September 17, 2018. This review identified no previously recorded archaeological sites with the project limits, but nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683) are found within a mile of bridge. An updated file search for carried out on October 15, 2021. No new sites have been recorded in region. According to the North Carolina State Historic Preservation Office (SHPO) online data base (HPOWEB 2021), no National Register eligible or listed historic architectural resources are within the APE. However, the project is within the Blackwood Station Historic District (OR 487), which is only a Surveyed Area consisting of an early 1900s community. All the structures (OR 3174–3178) within the district are recorded as Surveyed Only and are not likely to yield intact and significant archaeological deposits. Furthermore, New Hope Market (OR 3174) and the former Allen and Son Barbecue restaurant (OR 3178) are surrounded by pavement and gravel. Topographic maps, USDA soil survey maps, aerial photographs (NC One Map), and historic maps (North Carolina maps website) were further examined for information on environmental and cultural variables that may have contributed to prehistoric or historic settlement within the project limits and to assess the level of ground disturbance.

Bridge 37 and NC 86 cross New Hope Creek north to south (Figure 2). New Hope drains east and is part of the Cape Fear drainage basin. The project area resides along the New Hope floodplain and the adjacent eroded hillsides. The area appears minimal disturbed, but a buried sewer line runs along the westside of the road. Ground disturbance from its recent construction was widespread. The property east of the road is ponded or saturated with water with disturbance from the railway at the southern end. Ground disturbance from the former service station (currently the New Hope Market/restaurant) and residential property are present to the southwest. Property surrounding the service station is a mix of pavement and gravel.

The USDA soil survey map for the county identifies four soil types including Chewacla loam (Ch), Enon loam (EnC), Georgeville silt loam (GeC), and Herndon silt loam (HrC) (USDA NRCS 2018) (see Figure 2). Chewacla loam makes up the entire floodplain. This series is nearly level and somewhat poorly drained. It is also subject to frequent flooding. No significant archaeological sites will be encountered on this series due to persistent wetness. The remaining three series compose the hillsides. These are well drained soils with slope of less than 12 percent. Although they are typically tested for archaeological sites, the soils within the APE have been affected by ground disturbing activities including soil erosion. Significant resources are not expected.

Several archaeological investigations have been carried out in the vicinity of the current project, which have resulted in the identification of nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683). All of these sites are prehistoric in origin and have yet to be assessed for the National Register. Additional sites are probable in the region, but the current APE is not likely to yield positive results due to disturbance from the sewer line and former service station west of NC 86 and wet soils to the east.

A map review was also conducted. The earliest in which the project area could be placed was the 1891 *Map of Orange County* by George Tate and Theophilus Moore (Figure 3). This map plots the New Chapel Hill Road that would one day become NC 86. It depicts the railway, New Hope Creek, the Blackwood Post Office, and Robeson Station. Road traces along NC 86 suggest that the earlier road was likely west of the current road; however at the current project area, the former road ran adjacent too or beneath NC 86. A log house situated in the southeast corner of the APE may be the old Post Office, but this seems unlikely. The Post Office was probably southwest of this structure near the railroad and has since been demolition. Robeson Station is placed south of the tracks, just outside of the project limits, but no evidence of these former structure can be seen in the landscape. It is very possible due to the schematic nature of this map that both structures and the road are incorrectly plotted. Regardless, significant archaeological deposits associated with these structures are not expected to be intact. The later circa 1910 *Rural Deliver Routes for Orange County* shows a more detail picture (United States Post Office ca. 1910) (Figure 4). It illustrates road following similar alignments as today with two nearby structures. The first structure west of the railway is located at the former service station (Blackwood Station), and likely represents an early version of this business. The second structure is to the east of the railway and is outside of the project limits. Subsequent maps provide no further information

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

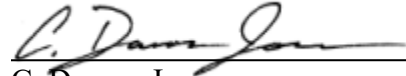
The proposed Bridge 37 replacement project in Orange County is not likely to impact any significant archaeological resources. This is due ground disturbance west of the road and wet soils to the east. As a result, there is a low probability for archaeological sites. No further archaeological work is recommended for this project. But if design plans change to affect subsurface areas beyond the defined APE, further archaeological consultation might be necessary.

This project falls within a North Carolina County in which the Catawba Nation have expressed an interest. We recommend that you ensure that this documentation is forwarded to the tribe using the process described in the current NCDOT Tribal Protocol and PA Procedures Manual.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
Other:

FINDING BY NCDOT ARCHAEOLOGIST: NO ARCHAEOLOGY SURVEY REQUIRED



C. Damon Jones
NCDOT ARCHAEOLOGIST II

November 16, 2021

Date

REFERENCES CITED

HPOWEB

- 2021 North Carolina State Historic Preservation Office GIS Web Service.
<https://nc.maps.arcgis.com/apps/webappviewer/index.html?id=79ea671ebdcc45639f0860257d5f5ed7>. Accessed October 15, 2021.
- Tate, George, and Theophilus Moore
1891 *Map of Orange County, North Carolina*. George Tate, Bingham School, North Carolina. On file at North Carolina Collections, University of North Carolina, Chapel Hill.
- United States Department of Agriculture Natural Resources Conservation Services (USDA NRCS)
2021 Orange County Soil Survey. Available online at
<http://webosilsurvey.nrcs.usda.gov/app/>. Accessed October 15, 2021.
- United States Post Office
ca. 1910 *Rural Delivery Routes of Orange County, North Carolina*. United States Post Office Department, Washington, D.C. On file at North Carolina Collections, University of North Carolina, Chapel Hill.
- United States Geological Survey (USGS)
2013 Chapel Hill, North Carolina 7.5 minute quadrangle map.

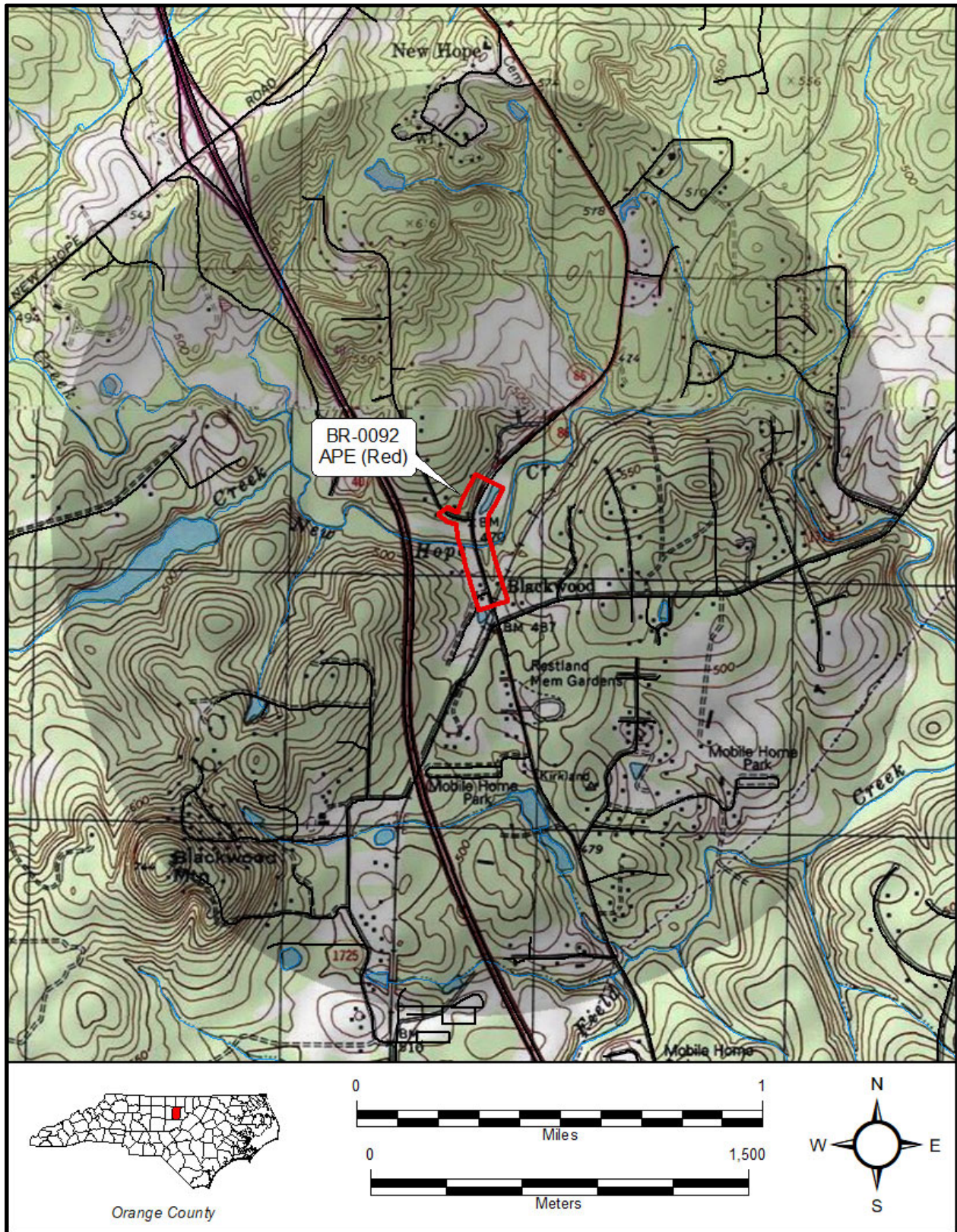


Figure 1. Topographic Setting of the Project Area, Chapel Hill (2013), NC USGS 7.5 Topographic Quadrangle.

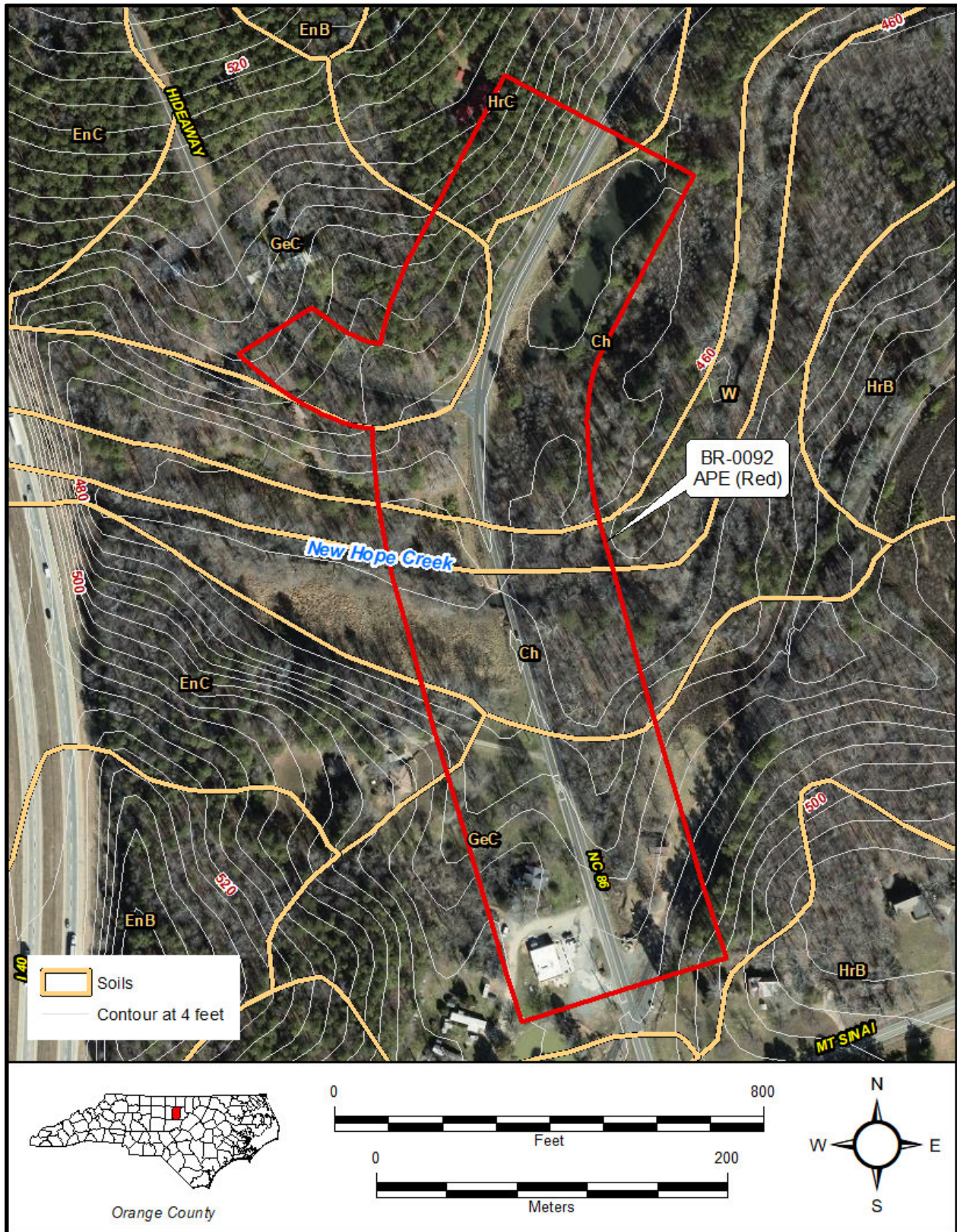


Figure 2. Aerial photograph of the APE showing development, contours, and soils.

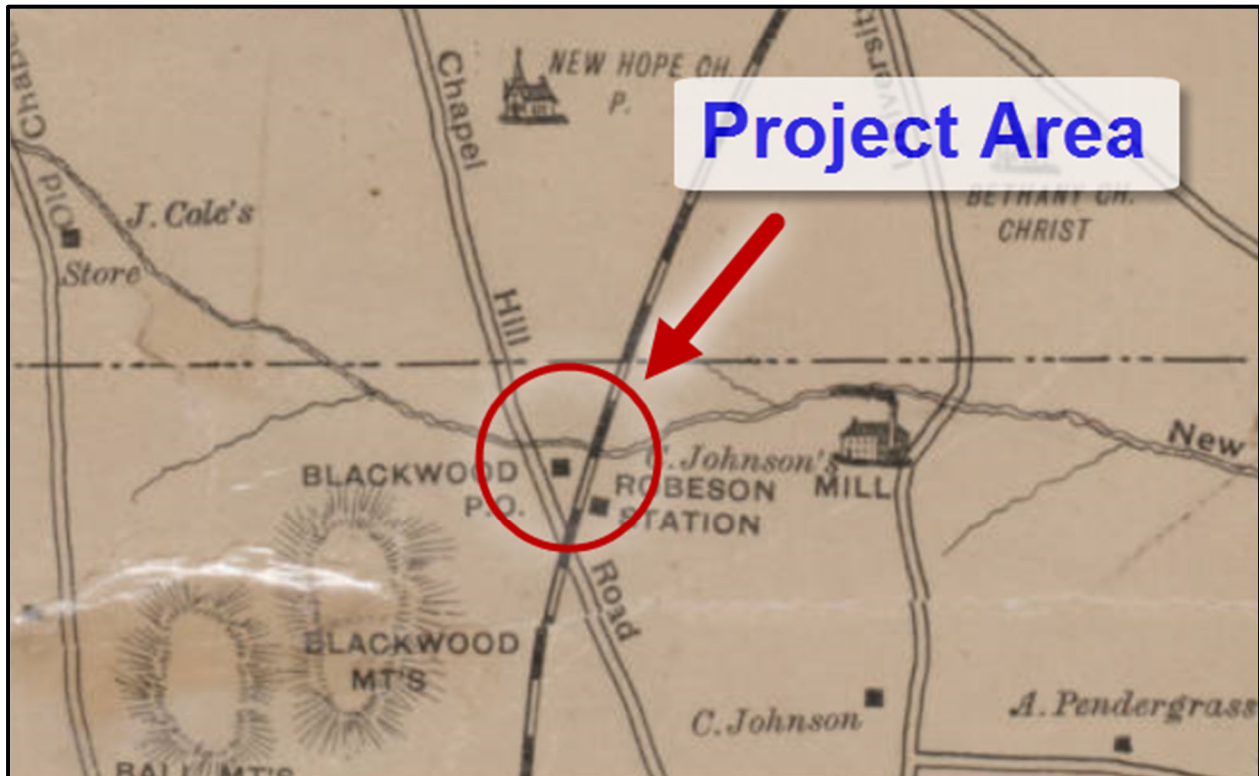


Figure 3. The 1891 *Map of Orange County* by George Tate and Theophilus Moore showing the location of the project area.

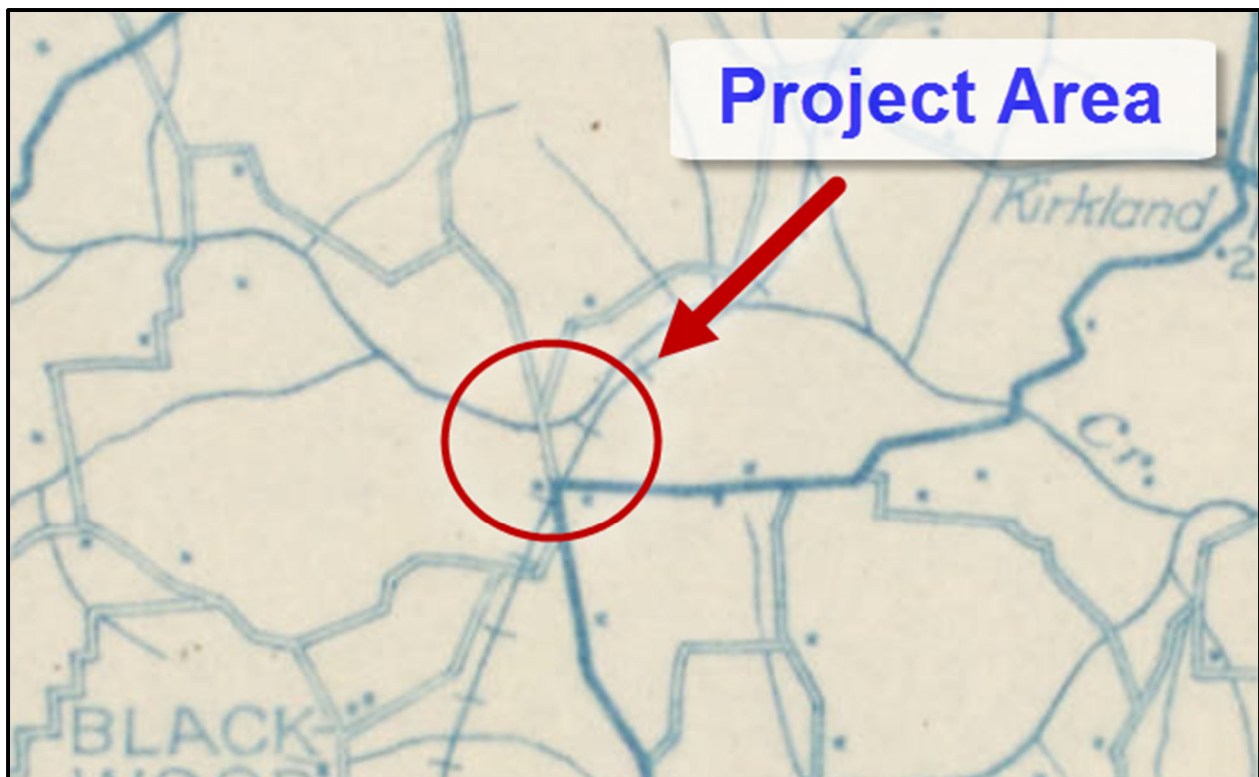
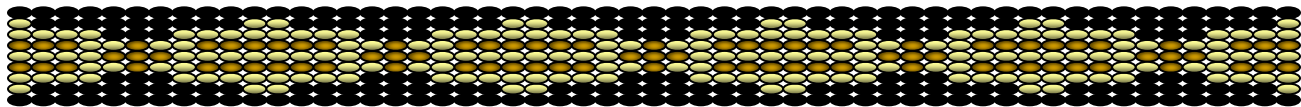


Figure 4. The circa 1910 *Rural Deliver Routes for Orange County* showing the location of the project area.

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

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



February 2, 2022

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

Re. THPO #	TCNS #	Project Description
2022-193-62		STIP B-6038; STIP BR-0080; and STIP BR-0092

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

From: [Peterson, Tierre R](#)
To: [Kaleigh Pollak](#); [Demery, Dustin A](#); [David.E.Bailey2@usace.army.mil](#)
Cc: [Bowles, Jacquelyn K](#); [Robinson, David](#); [Byron Atkinson](#)
Subject: Re: [External] RE: B-6038 & BR-0092 Tribal Letter
Date: Monday, January 24, 2022 4:24:40 PM
Attachments: [image001.jpg](#)



Kaleigh,

Thank you for the response. We will document this on our project sites.

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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From: Kaleigh Pollak <Kaleigh@monacannation.com>
Sent: Monday, January 24, 2022 3:22 PM
To: Demery, Dustin A <dademery@ncdot.gov>; Peterson, Tierre R <trpeterson@ncdot.gov>;
David.E.Bailey2@usace.army.mil <david.e.bailey2@usace.army.mil>
Subject: [External] RE: B-6038 & BR-0092 Tribal Letter

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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:

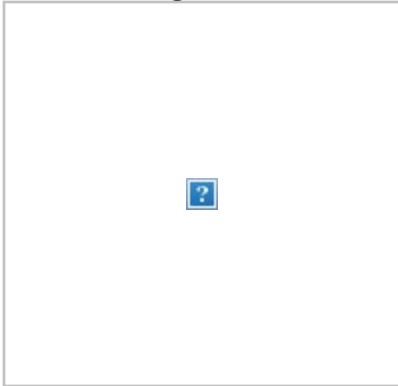
- Sites associated with native history may be impacted by this project;
- Adverse effects associated with this project are identified;
- Human remains are encountered during this project;
- Unanticipated native cultural remains are encountered during this project;
- Other tribes consulting on this project 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 Consultation@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



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From: Tribal Office <TribalOffice@monacannation.com>
Sent: Wednesday, January 5, 2022 10:27 AM
To: Kaleigh Pollak <Kaleigh@monacannation.com>
Subject: Fw: B-6038 & BR-0092 Tribal Letter

From: Demery, Dustin A <dademery@ncdot.gov>
Sent: Tuesday, January 4, 2022 2:21 PM
To: Tribal Office <TribalOffice@monacannation.com>
Cc: Peterson, Tierre R <trpeterson@ncdot.gov>; Bowles, Jacquelyn K <jkbowles@ncdot.gov>; Stutts, David S <dstutts@ncdot.gov>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>; David.E.Bailey2@usace.army.mil <david.e.bailey2@usace.army.mil>; Morales, Suzette (FHWA) <omojojadavwe.morales@dot.gov>
Subject: B-6038 & BR-0092 Tribal Letter

Good Afternoon,

Please see the attached project study letter for NCDOT Projects B-6038 and BR-0092.
Please let us know by February 11th if you have any questions or comments.

Sincerely,

Dustin Demery

Engineer I
Structures Management Unit
North Carolina Department of Transportation

dademery@ncdot.gov

1000 Birch Ridge Drive
Raleigh, NC 27610

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NEPA/SEPA Document

Type I or II Categorical Exclusion Action Classification Form

Bridge Program Project No.	BR-0092
WBS Element	67092.1.1
Federal Project No.	N/A

A. Project Description:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 670037 on NC 86 over New Hope Creek in Orange County (see Figure 1: Vicinity Map). Bridge No. 670037 will be replaced on new alignment to the west of the existing bridge while traffic is maintained on the existing bridge during construction. The replacement structure will be a single-span 116-foot-long bridge, with two 12-foot lanes and 8-foot shoulder offsets (see Appendix A). The roadway approaches along NC 86 will have two 12-foot lanes and 8-foot usable shoulders, of which four feet will be paved except in areas with guardrail, where the shoulder will be paved to a width of 8 to 10 feet. The project length is approximately 1,450 feet. The proposed project is part of NCDOT's Bridge Program. Right of way acquisition and construction are scheduled for Fiscal Years 2024 and 2026, respectively.

NC 86 is classified as a Minor Arterial with a 45 mile per hour (MPH) posted speed.

B. Description of Need and Purpose:

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

Bridge No. 670037 was built in 1951. The three-span bridge is 90 feet long with a deck width of 22 feet. The superstructure is composed of a reinforced concrete deck with steel I-beams. NCDOT Bridge Management Unit records indicate the structure currently has a sufficiency rating of 52.01 out of a possible 100 for a new structure as of March 16, 2022. The bridge is considered structurally deficient due to a superstructure rating of 4 out of 9.

Components of the bridge have experienced increasing degrees of deterioration that can no longer be addressed by maintenance activities. The replacement of the bridge will result in a safer crossing over New Hope Creek.

C. Categorical Exclusion Action Classification:

Type I(A) - Ground Disturbing Action

D. Proposed Improvements:

23 CFR 771.117

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 CCR 771.117 (e) (1-6).

E. Special Project Information:**Design Conditions:**

Traffic:	6,550 vpd (2023), 7,800 vpd (2043)
Truck Portion:	TTST – 1%, Dual – 3%
Functional Class:	Minor Arterial
Design Speed:	50 MPH
Posted Speed:	45 MPH
Design Standards:	Regional Tier
Design Exceptions:	Not required
Construction Type:	Replace on new alignment to the west of existing, maintain traffic on site.

Bridge Demolition:

Bridge No. 670037 is constructed of concrete, timber, and steel and should be possible to remove with no resulting debris based on standard demolition practices.

Alternatives Discussion:

No-Build – The No-Build alternative would result in eventually closing the bridge as its condition continues to deteriorate.

Rehabilitation – Rehabilitation would only provide a temporary solution for this structurally deficient bridge. Bridge No. 670037 was constructed in 1951. Rehabilitation of deteriorated components of the bridge would effectively constitute replacing the bridge.

Off-Site Detour – A suitable off-site detour does not exist and therefore was not evaluated for this project. Additionally, NC 86 through the project area is a designated detour route for I-40 and used as a primary emergency service response route in the area.

Replace on New Alignment with On-Site Detour (Selected) – Bridge No. 670037 will be replaced on new alignment west of the existing bridge (see Appendix A). Traffic will be maintained on the existing bridge during construction.

Bicycle and Pedestrian Accommodations:

Based on NCDOT Bicyclist and Pedestrian Crash Map, no pedestrian or bicyclist crashes were reported within or adjacent to the project study between 2007 and 2021.

The Durham-Chapel Hill-Carrboro (DCHC) Metropolitan Planning Organization's (MPO) Comprehensive Transportation Plan (CTP) Bicycle and Pedestrian recommendations currently propose the following in the project area:

- Improvement of the on-road NC 86 bicycle facilities to include 4-foot paved shoulders.
- A future unpaved New Hope Creek Trail from Old NC 86 (SR 1009) to Turkey Farm Road (SR 1730)

NCDOT coordinated with representatives from Orange County and the DCHC MPO in October and November 2022 to discuss bicycle and pedestrian accommodations. Orange County representatives request as much width as possible on the bridge and paved shoulders that are no less than 4 feet along the roadway in consideration of Orange County Complete Street and Vision Zero policies. County staff request as much horizontal and vertical clearance as possible beneath the bridge as well as a graded surface for a future unpaved New Hope Creek trail and for wildlife passage. In addition, DCHC MPO staff commented that the American Association of State Highway and Transportation Officials (AASHTO) Guide for the Development of Bicycle Facilities recommends paved shoulders wider than 4 feet based on traffic volumes, at least 5 feet of paved shoulder from the face of guardrail, and at least 42-inch-high bridge rails where bicyclists operate near the railings.

The project proposes 8-foot shoulder offsets on the new bridge and 42-inch-high bridge rails. Where guardrail is proposed along the roadway on each end of the bridge, the shoulders will be paved to a width of 8 to 10 feet. Outside of the guardrail limits, the roadway approaches include 8-foot total shoulder widths, of which 4 feet will be paved. The proposed design does not prevent future bicycle and

pedestrian improvement projects from being added within the project limits. The additional paved shoulder width in front of the guardrail should aid future maintenance, assist any current bicycle and pedestrian users, and make future projects easier to construct if the County desires to fund improvements to this corridor. The proposed bridge provides a vertical clearance of approximately 8 feet and grading on the north side of New Hope Creek for the future unpaved New Hope Creek trail that is not currently funded.

Estimated Costs:

The estimated costs of the proposed project are as follows:

Utilities	\$270,000
Right of Way	\$980,000
Construction	\$4,100,000
Total Cost	\$5,350,000

Anticipated Permit or Consultation Requirements:

A Nationwide Permit will likely be required from the US Army Corps of Engineers (USACE) for impacts to “Waters of the United States” resulting from this project. In addition, an NC Division of Water Resources (NCDWR) Section 401 Water Quality General Certification (GC) may be required. The USACE holds the final discretion as to what permit will be required to authorize project construction.

Agency Comments:

A Start of Study letter was sent to federal, state, and local agencies on November 4, 2021. Responses are summarized below:

- NCDWR – New Hope Creek is class WS-V, Nutrient Sensitive Waters (NSW) of the State. NCDWR noted concerns with sediment and erosion impacts that could result from this project. It was recommended that the most protective sediment and erosion control Best Management Practices (BMPs) be implemented to reduce the risk to nutrient runoff to New Hope Creek.
- The North Carolina Wildlife Resources Commission (NCWRC) noted in a memorandum dated June 12, 2019, that Bridge No. 670037 is designated as Significant Aquatic Habitat by the NC Natural Heritage Program (NHP). It was noted that NCDOT should follow the Design Standards for Sensitive Watersheds during the design and construction of the project.
- NCWRC commented that the project design should include a clear bank (riprap free) area of at least 10 feet on each side of New Hope Creek underneath the bridge.
- The Director of Orange County Emergency Services noted that NC 86 is an important emergency response route, particularly when I-40 is congested. Additionally, EMS units frequently utilize this route to be positioned for emergency response.

Cultural Resources:

There are three Native American Indian Tribes that identify Orange County as an area of interest and request notification of NCDOT’s projects: Catawba Indian Nation, Monacan Indian Nation, and Occaneechi Band of the Saponi Nation. Per NCDOT’s Tribal Coordination Protocols, NCDOT notified and requested comments from these Tribes in letters dated January 3, 2022.

The Monacan Indian Nation stated that the project’s impacts are anticipated to be minimal, and the Nation does not wish to actively participate in consultation (see Appendix B). However, the Nation requests to be contacted if sites associated with native history may be impacted by this project, adverse effects are identified, human remains are encountered, unanticipated native cultural remains are encountered, other tribes consulting on this project cease consultation, or the project size or scope becomes larger or more potentially destructive than currently described.

The Catawba Indian Nation stated that there are no immediate concerns regarding traditional cultural properties, sacred sites, or Native American archaeological sites within the boundaries of the proposed project area (see Appendix B). However, they are to be notified if Native American artifacts and/or human remains are located during the ground disturbance phase of the project.

NCDOT’s Cultural Resources staff indicated that archeological surveys are not required.

A review of historic architecture and landscapes for the project was initially conducted in October 2018. Historic architectural surveys for multiple properties were recommended. Six historic properties were evaluated and recommended not eligible in a report sent to the Historic Preservation Office (HPO) in July 2019. The HPO concurred with the recommendations in a letter dated August 29, 2019. Therefore, a No Historic Properties Present or Affected finding is appropriate. The project study area expanded in November 2021. Based on NCDOT's subsequent review of the updated study area and HPO's previous concurrence with NCDOT's recommendations in August 2019, no additional historic architectural surveys are required. See Appendix B for documentation referenced above.

Public Involvement:

A project newsletter was mailed on December 5, 2022 to approximately 488 property and business owners in the vicinity of the proposed project as well as other stakeholders. The newsletter informed members of the public of the proposed bridge replacement and provided project contact information. Recipients of the newsletter were invited to comment. A total of two individuals provided comments that pertained to individual property impacts and safe pedestrian access across the bridge to GoTriangle Route 420 bus stops located approximately 0.2 mile south of the bridge. NCDOT responded to the property owner who submitted comments concerning property impacts; the response included additional project information and contact details. To assist pedestrians and bicyclists crossing the project, the project proposes 8-foot shoulder offsets on the bridge, 42-inch-high bridge rails, additional pavement in front of the guardrail (8 to 10 feet total) on each side of the bridge, and 8-foot total shoulder widths (with 4 feet paved) outside of the guardrail limits.

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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"/>	

Other Considerations for Type I and II Ground Disturbing Actions (continued)		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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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:

Response to Question 8:

The United States Fish and Wildlife Service (USFWS) lists the Atlantic pigtoe (*Fusconaia masoni*) as a federally protected species within the study area, under the Endangered Species Act (ESA). Section 7 compliance for the Atlantic pigtoe mussel has been met through the Eastern Mussel Programmatic Biological Opinion (PBO) issued by USFWS. The use of the PBO indicates the following biological conclusion: **May Affect, Likely to Adversely Affect**. The Department will adhere to the PBO Methodology, Conservation Measures, Reasonable and Prudent Measures, Terms and Conditions, and Monitoring and Reporting Requirements.

On September 14, 2022, the USFWS announced a proposal to list the Tricolored bat (*Perimyotis subflavus* - PESU) as Endangered under the ESA. Given the proposal to list PESU as Federally Endangered, NCDOT and its federal partners, FHWA and USACE are initiating a conference programmatic consultation to address impacts to this species. USFWS has not provided an official effective listing date, but it is anticipated to occur in the second half of 2023. Upon listing, USFWS is expected to provide habitat descriptions and an area of influence/distribution range for PESU. When this information is provided, it will help to inform NCDOT's determinations on habitat that could be impacted by NCDOT actions.

Response to Question 10:

Streamside riparian zones within the study area are protected under provisions of the Lake Jordan Buffer Rules administered by Orange County. New Hope Creek and Pond PA are identified as features to be subject to the buffer rules. A buffer mitigation plan, including use of the North Carolina Division of Mitigation Services, must be provided to the North Carolina Division of Water Resources (NCDWR) prior to approval of the Water Quality Certification.

Response to Question 15:

There is one GeoEnvironmental site of concern with the project study area with the anticipation for low monetary and scheduling impacts resulting from the site. New Hope Market (formerly Sunrise Farmers Market) is located on the west side of NC 86 just south of Neal Tapps Road. As part of the Sunrise Farmers Market operation, petroleum contamination was discerned during the removal of five Underground Storage Tanks (USTs) in January 1995. Multiple monitoring wells were observed while on-site and the outline of the old pump island is visible. The incident is actively being monitored.

Response to Question 16:

Orange County is included in the National Flood Insurance Program (NFIP). The project is in the New Hope Creek Zone AE floodway area, for which 100-year base flood elevations are established. The NCDOT Hydraulics Unit will coordinate with the Federal Emergency Management Agency (FEMA) to determine if a Conditional Letter of Map Revision (CLOMR) and a subsequent final Letter of Map Revision (LOMR) are required for the project. NCDOT Division 7 will submit sealed as-built construction plans to the Hydraulics Unit upon project completion certifying the project was built as shown on construction plans.

Response to Question 30:

Farmland soils eligible for protection under the Farmland Protection Policy Act (FPPA) are present within the project footprint. The proposed right of way may acquire approximately 0.93 acre of Farmland of Statewide Importance. None of these farmland soils are currently in agricultural use. No Voluntary Agricultural Districts are in the study area.

A preliminary screening of farmland conversion impacts in the project area has been completed (NRCS Form AD-1006 for point projects, Part VI only). The BR-0092 project site assessment does not exceed the threshold established by NRCS. Farmland conversion impacts may be anticipated, but are not considered notable, and no further action is needed.

H. Project Commitments:**NCDOT PROJECT COMMITMENTS**

Bridge Program Project No. **BR-0092**
Replace Bridge #670037 on NC 86 over New Hope Creek
Orange County
Federal Aid Project No. N/A
WBS Element 67092.1.1

NCDOT Division 7

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 the structure construction, certifying that the drainage(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

NCDOT Bike-Ped Design Accommodations

The Durham-Chapel Hill-Carrboro (DCHC) Metropolitan Planning Organization's (MPO) Comprehensive Transportation Plan (CTP) Bicycle and Pedestrian recommendations propose an improvement of the on-road NC 86 bicycle facilities to include 4-foot paved shoulders and a future unpaved New Hope Creek Trail. The project proposes 8-foot shoulder offsets on the new bridge and 42-inch-high bridge rails. Where guardrail is proposed along the roadway on each end of the bridge, the shoulders will be paved to a width of 8 to 10 feet. Outside of the guardrail limits, the roadway approaches include 8-foot total shoulder widths, of which 4 feet will be paved. The proposed bridge provides a vertical clearance of approximately 8 feet and grading on the north side of New Hope Creek to accommodate a future unpaved New Hope Creek trail that is not currently funded.

NCDOT Environmental Analysis Unit

Section 7 compliance for the Atlantic pigtoe mussel has been met through the Eastern Mussel Programmatic Biological Opinion (PBO) issued by USFWS. The use of the PBO indicates the following biological conclusion: May Affect, Likely to Adversely Affect. The Department will adhere to the PBO Methodology, Conservation Measures, Reasonable and Prudent Measures, Terms and Conditions, and Monitoring and Reporting Requirements.

NCDOT Roadside Environmental Unit

The project is within the Cape Fear River Basin where Jordan Lake Buffer Rules apply. Design Standards for Sensitive Watersheds will be implemented during project construction.

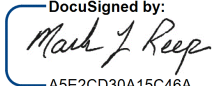
I. Categorical Exclusion Approval:

Bridge Program Project No.	BR-0092
WBS Element	67092.1.1
Federal Project No.	N/A

Prepared By:

3/16/2023

 Date

DocuSigned by:

A5E2CD30A15C46A

 Mark L. Reep, PE
 Whitman, Requardt & Associates, LLP


Prepared For:

Bryan C. Key, PE, NCDOT Project Management Unit

Reviewed By:

3/17/2023

 Date

DocuSigned by:

821C76C4D61C42A

 Hannah Headrick, Environmental Program Consultant
 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.

3/17/2023

 Date

DocuSigned by:

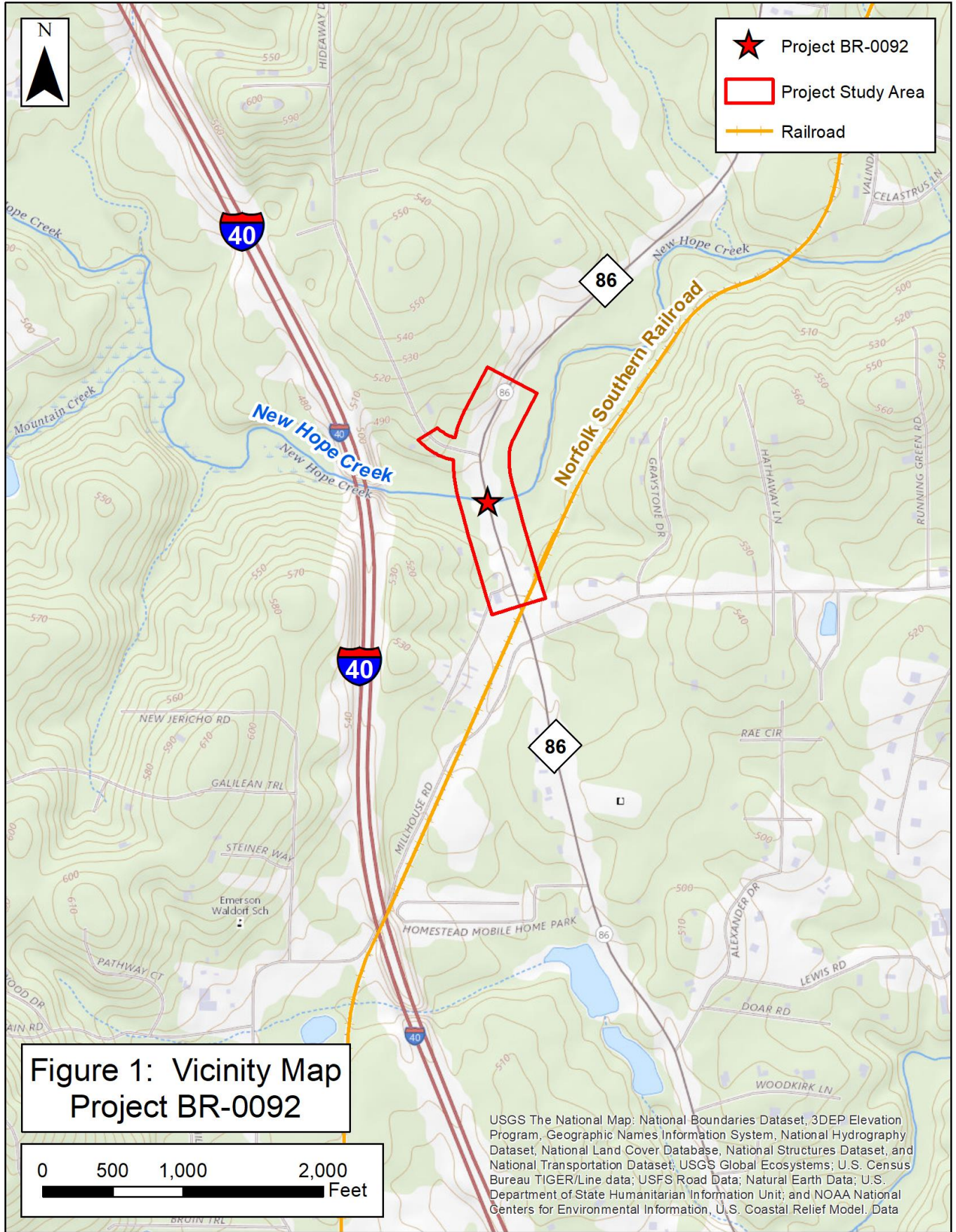
CA084B4A6412432

 John Jamison, Unit Head, Environmental Policy Unit
 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).



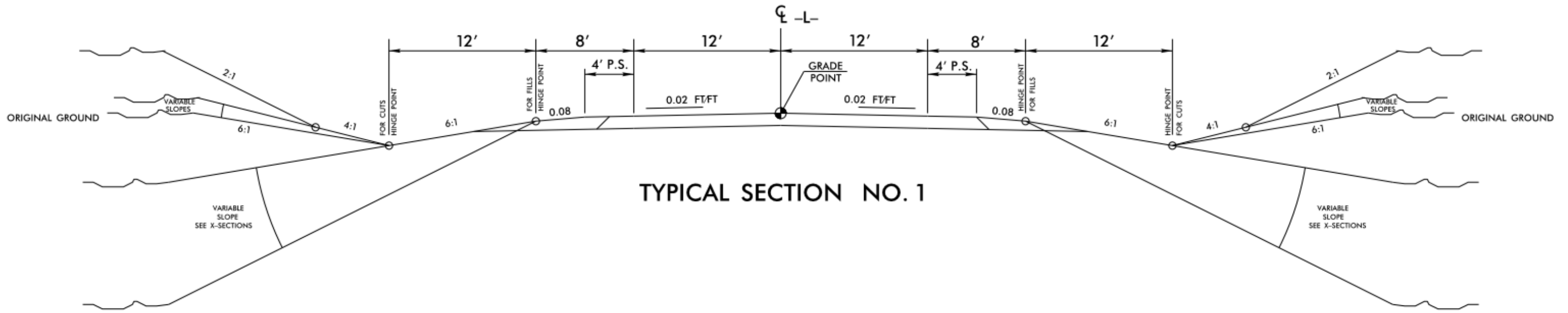
APPENDIX A

FIGURES

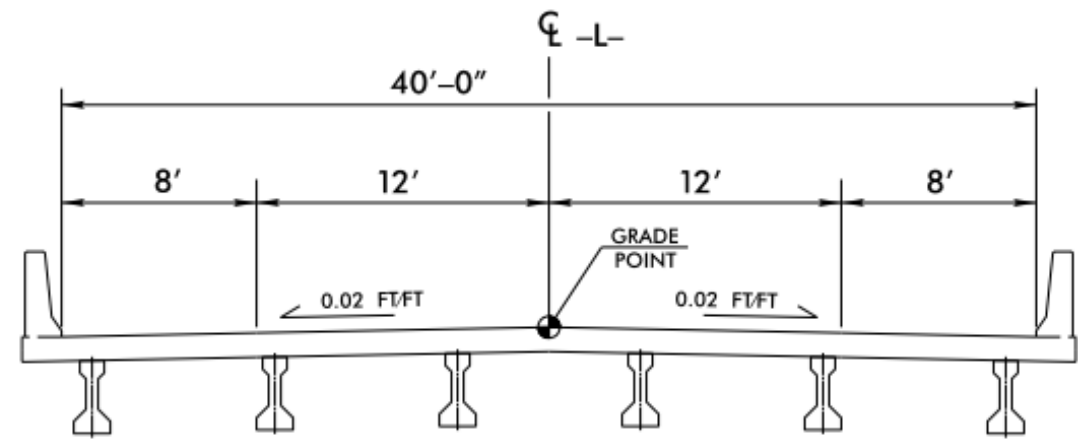
SELECTED ALTERNATIVE ON NEW ALIGNMENT

PROJECT REFERENCE NO. <i>BR-0092</i>	SHEET NO.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	





TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

NOT TO SCALE

BR-0092

TYPICAL SECTIONS
FOR
FUNCTIONAL DESIGN

CH ENGINEERING
3220 GLEN ROYAL RD. RALEIGH, NC 27617
TELE 919.788.0224 FAX 919.788.0232
NC LICENSE #P-0189

APPENDIX B

CULTURAL RESOURCES

18-09-0065



HISTORIC ARCHITECTURE AND LANDSCAPES

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:	B-0092	County:	Orange
WBS No.:	67092.1.1	Document Type:	MCC
Fed. Aid No:		Funding:	<input 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. 37 on NC 86 over the New Hope Creek near Blackwood. The Area of Potential Effects (APE) for the project is defined as an approximately 2,000-foot corridor running 1,000 feet north and south from the center of the bridge and approximately 400 feet wide extending 200 feet from either side of the centerline.

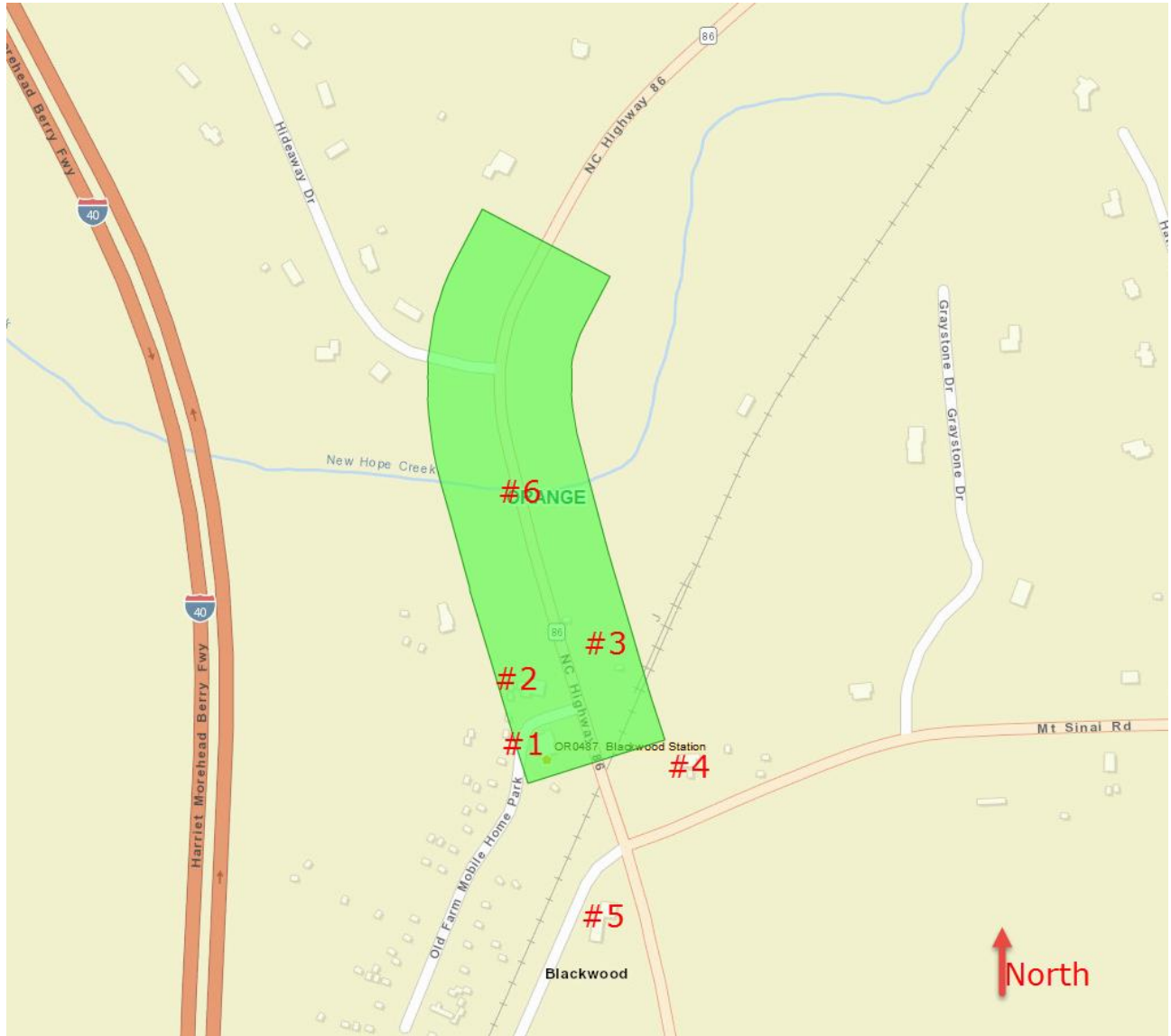
SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of the APE on HPOWeb and deed research was conducted in October 2018. There are no existing NR, SL, DE, or LD properties in the project area, but there is one SS property -- Blackwood Station (OR0487). This is a 1950s commercial gas station which has not been previously evaluated for National Register eligibility. Further north there are several other structures that have not been previously surveyed: a late 19th century craftsman dwelling, a late 19th century unpainted side gable cottage with a log barn, and another late 19th century farmstead. To the south there is a famous restaurant - Allen and Son Barbeque - which resides in a 1960s building. This building appears to be outside the APE because it is south of the railroad tracks, however, if construction actives extend south, this property should be evaluated. Bridge 37 was constructed in 1951 but was not recommended for eligibility as a result of the Historic Bridge Inventory in 2005. A subdivision called Hideaway Acres is in the northern end of the APE, but the earliest properties appear to date from the 1970s. Survey is recommended for properties 1-4 and possibly 5 if the construction limit were to extend past the railroad tracks.

SUPPORT DOCUMENTATION

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



APE Map- Source: HPOWeb, November 2018



#1 Blackwood Station: Tax parcel 9871850238, built 1957 (Google StreetView)



#2 House: Tax parcel 9871769758, built 1887 (Google StreetView)



#3 House: Tax parcel 9871960563, built 1872 (Google StreetView)



#3 Barn: Tax parcel 9871960563, built late 19th century (Google StreetView)



#4 Farmstead: Tax parcel 9871960563, built in 1872 (Google StreetView)



#5 Allen & Son BBQ: Tax parcel 9871844888, built 1961 (Google StreetView)



#6 Bridge 37: built 1951 (Google StreetView)

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- ****SURVEY REQUIRED****

Mary Pope Furr

11/2/2018

NCDOT Architectural Historian

Date

Anticipated Fieldwork Completion Date:

18-09-0064



HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES PRESENT OR AFFECTED 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:	B-0092	County:	Orange
WBS No.:	67092.1.1	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. 37 on NC 86 over the New Hope Creek near Blackwood. The Area of Potential Effects (APE) for the project is defined as an approximately 2,000-foot corridor running 1,000 feet north and south from the center of the bridge and approximately 400 feet wide extending 200 feet from either side of the centerline.

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- There are no properties within the project's area of potential effects.
- There are properties over fifty years old within the area of potential effects, but they do not meet the criteria for listing on the National Register.
- There are no historic properties present or affected by this project. (Attach any notes or documents as needed.)

Date of field visit: April 2019

Description of review activities, results, and conclusions:

Review of the APE on HPOWeb and deed research was conducted in October 2018. There are no existing NR, SL, DE, or LD properties in the project area, but there is one SS property -- Blackwood Station (OR0487). Bridge 37 was constructed in 1951 but was not recommended for eligibility as a result of the Historic Bridge Inventory in 2005. Six historic properties were evaluated by consultants and recommended not eligible in a report sent to the HPO in July 2019. The HPO concurred with the findings in their letter dated August 29, 2019. Therefore, a No Historic Properties Present call is appropriate.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes – **NO HISTORIC PROPERTIES PRESENT OF AFFECTED**

Mary Pope Furr

9/20/2019

NCDOT Architectural Historian

Date

18-09-0065
Updated

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-0092	County:	Orange
WBS No.:	67092.1.1	Document Type:	FCE
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 Number 37 on NC 86 over New Hope Creek.

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of HPOGIS web service was undertaken on November 17, 2021. This project was investigated and a No Historic Properties Present or Affected form was submitted on September 20, 2019. The project study area has been expanded and in October 2021 it was resubmitted for screening. Based on this review, there are no existing NR, DE, LL, SL or SS properties in the expanded project area. There is one structure in the expanded Area of Potential Effects (APE) which are greater than 50 years of age. The structure is a house constructed in 1971. The house does not have the architectural significance or integrity to warrant further evaluation. No Survey 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:

HPOGIS and County Tax Data provide reliable information regarding structures in the APE. These combined utilities are considered valid for purposes of determining the likelihood of historic resources being present.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

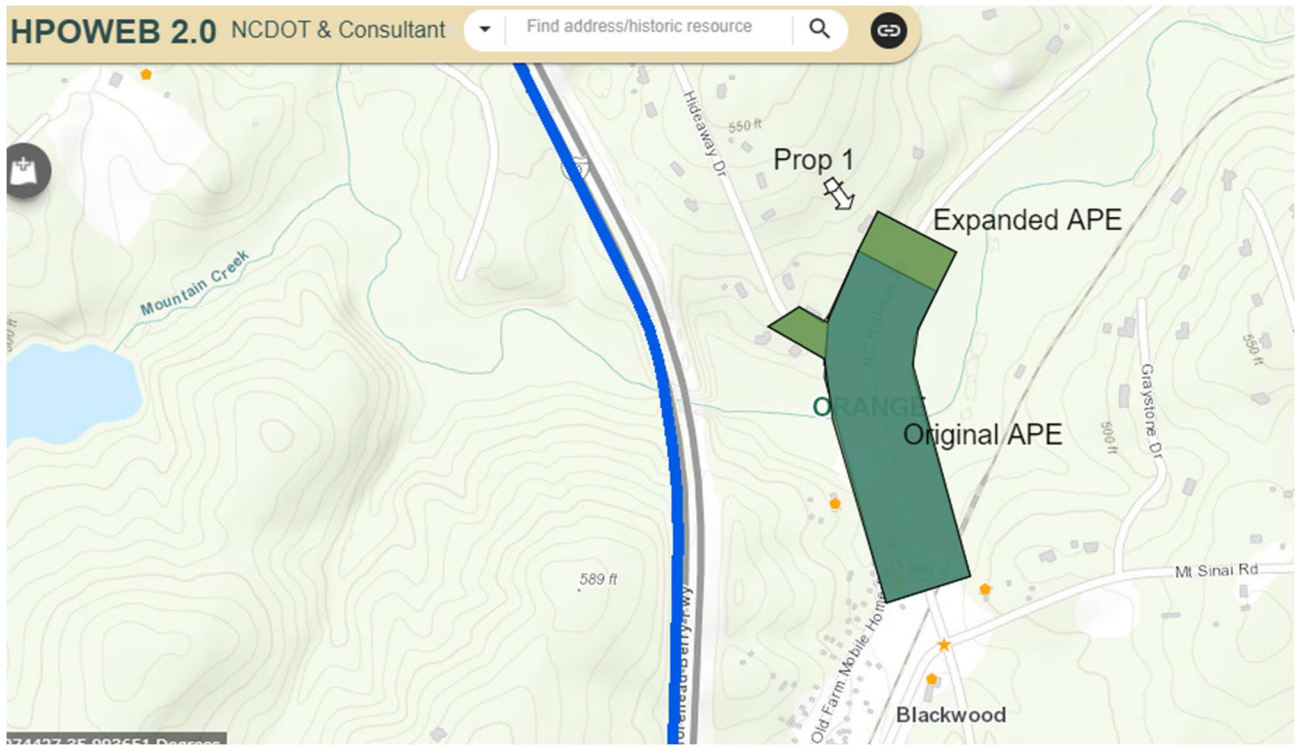
Historic Architecture and Landscapes -- NO SURVEY REQUIRED

Shelby Reap

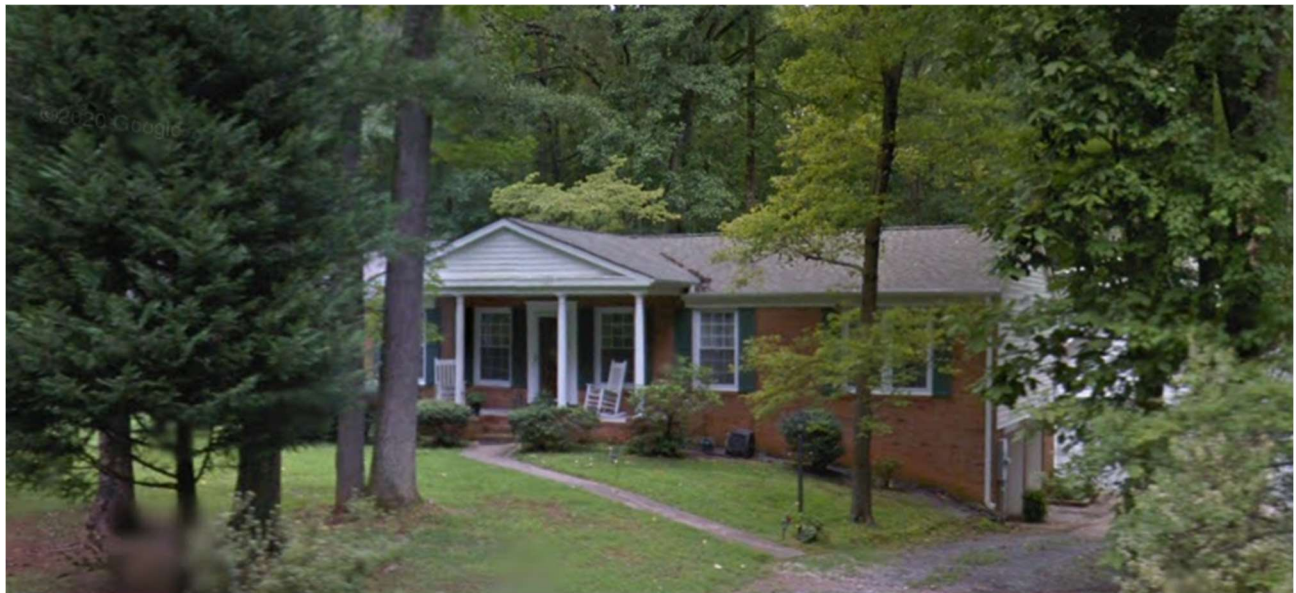
November 17, 2021

NCDOT Architectural Historian

Date



BR-0092



House 1971



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 Team.



PROJECT INFORMATION

Project No: **BR-0092** County: Orange
 WBS No: 67092.1.1 Document: State MCC
 Federal Aid No: na Funding: State Federal
 Federal Permit Required? Yes No Permit Type: **USACE**

Project Description:

The project calls for the replacement of Bridge No. 37 on NC 86 over the New Hope Creek in Orange County (TIP BR-0092). A *“No archaeological Survey Required” form was originally submitted on October 9, 2018. The APE has since expanded in the northern half of the project area. The former PA form is now invalid and replaced by the current form.* The revised archaeological Area of Potential Effects (APE) for the project is defined as an approximately 1,700-foot (518.16 m) long corridor running 950 feet (289.56 m) north and 750 feet (228.60m) south from the center of the bridge. The APE corridor is approximately 400 feet (121.92 m) wide extending 200 feet (60.96 m) from either side of the centerline. The APE also extends 400 feet (121.92 m) along SR 1203 (Hideaway Road) from its intersection with NC 86. This extension is approximately 160 feet (48.77 m) wide extending 80 feet (24.38 m) from either side of the centerline.

Although this project is state funded, federal permits are anticipated. Therefore, this archaeological review was conducted pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation’s Regulations for Compliance (36 CFR Part 800).

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The proposed Bridge 37 replacement project is located north of Chapel Hill and south of Hillsborough in Orange County, North Carolina. The project area is plotted at the northern edge of the Chapel Hill USGS 7.5' topographic quadrangle (Figure 1).

A site file search was first conducted by Casey Kirby at the Office of State Archaeology (OSA) on September 17, 2018. This review identified no previously recorded archaeological sites with the project limits, but nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683) are found within a mile of bridge. An updated file search for carried out on October 15, 2021. No new sites have been recorded in region. According to the North Carolina State Historic Preservation Office (SHPO) online data base (HPOWEB 2021), no National Register eligible or listed historic architectural resources are within the APE. However, the project is within the Blackwood Station Historic District (OR 487), which is only a Surveyed Area consisting of an early 1900s community. All the structures (OR 3174–3178) within the district are recorded as Surveyed Only and are not likely to yield intact and significant archaeological deposits. Furthermore, New Hope Market (OR 3174) and the former Allen and Son Barbecue restaurant (OR 3178) are surrounded by pavement and gravel. Topographic maps, USDA soil survey maps, aerial photographs (NC One Map), and historic maps (North Carolina maps website) were further examined for information on environmental and cultural variables that may have contributed to prehistoric or historic settlement within the project limits and to assess the level of ground disturbance.

Bridge 37 and NC 86 cross New Hope Creek north to south (Figure 2). New Hope drains east and is part of the Cape Fear drainage basin. The project area resides along the New Hope floodplain and the adjacent eroded hillsides. The area appears minimal disturbed, but a buried sewer line runs along the westside of the road. Ground disturbance from its recent construction was widespread. The property east of the road is ponded or saturated with water with disturbance from the railway at the southern end. Ground disturbance from the former service station (currently the New Hope Market/restaurant) and residential property are present to the southwest. Property surrounding the service station is a mix of pavement and gravel.

The USDA soil survey map for the county identifies four soil types including Chewacla loam (Ch), Enon loam (EnC), Georgeville silt loam (GeC), and Herndon silt loam (HrC) (USDA NRCS 2018) (see Figure 2). Chewacla loam makes up the entire floodplain. This series is nearly level and somewhat poorly drained. It is also subject to frequent flooding. No significant archaeological sites will be encountered on this series due to persistent wetness. The remaining three series compose the hillsides. These are well drained soils with slope of less than 12 percent. Although they are typically tested for archaeological sites, the soils within the APE have been affected by ground disturbing activities including soil erosion. Significant resources are not expected.

Several archaeological investigations have been carried out in the vicinity of the current project, which have resulted in the identification of nine sites (31OR43, 31OR44, 31OR185–31OR187, 31OR189, 31OR680, 31OR682, and 31OR683). All of these sites are prehistoric in origin and have yet to be assessed for the National Register. Additional sites are probable in the region, but the current APE is not likely to yield positive results due to disturbance from the sewer line and former service station west of NC 86 and wet soils to the east.

A map review was also conducted. The earliest in which the project area could be placed was the 1891 *Map of Orange County* by George Tate and Theophilus Moore (Figure 3). This map plots the New Chapel Hill Road that would one day become NC 86. It depicts the railway, New Hope Creek, the Blackwood Post Office, and Robeson Station. Road traces along NC 86 suggest that the earlier road was likely west of the current road; however at the current project area, the former road ran adjacent too or beneath NC 86. A log house situated in the southeast corner of the APE may be the old Post Office, but this seems unlikely. The Post Office was probably southwest of this structure near the railroad and has since been demolition. Robeson Station is placed south of the tracks, just outside of the project limits, but no evidence of these former structure can be seen in the landscape. It is very possible due to the schematic nature of this map that both structures and the road are incorrectly plotted. Regardless, significant archaeological deposits associated with these structures are not expected to be intact. The later circa 1910 *Rural Deliver Routes for Orange County* shows a more detail picture (United States Post Office ca. 1910) (Figure 4). It illustrates road following similar alignments as today with two nearby structures. The first structure west of the railway is located at the former service station (Blackwood Station), and likely represents an early version of this business. The second structure is to the east of the railway and is outside of the project limits. Subsequent maps provide no further information

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


The proposed Bridge 37 replacement project in Orange County is not likely to impact any significant archaeological resources. This is due ground disturbance west of the road and wet soils to the east. As a result, there is a low probability for archaeological sites. No further archaeological work is recommended for this project. But if design plans change to affect subsurface areas beyond the defined APE, further archaeological consultation might be necessary.

This project falls within a North Carolina County in which the Catawba Nation have expressed an interest. We recommend that you ensure that this documentation is forwarded to the tribe using the process described in the current NCDOT Tribal Protocol and PA Procedures Manual.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
Other:

FINDING BY NCDOT ARCHAEOLOGIST: NO ARCHAEOLOGY SURVEY REQUIRED



November 16, 2021

C. Damon Jones
NCDOT ARCHAEOLOGIST II

Date

REFERENCES CITED**HPOWEB**

2021 North Carolina State Historic Preservation Office GIS Web Service.
<https://nc.maps.arcgis.com/apps/webappviewer/index.html?id=79ea671ebdcc45639f0860257d5f5ed7>. Accessed October 15, 2021.

Tate, George, and Theophilus Moore

1891 *Map of Orange County, North Carolina*. George Tate, Bingham School, North Carolina. On file at North Carolina Collections, University of North Carolina, Chapel Hill.

United States Department of Agriculture Natural Resources Conservation Services (USDA NRCS)

2021 Orange County Soil Survey. Available online at
<http://webosilsurvey.nrcs.usda.gov/app/>. Accessed October 15, 2021.

United States Post Office

ca. 1910 *Rural Delivery Routes of Orange County, North Carolina*. United States Post Office Department, Washington, D.C. On file at North Carolina Collections, University of North Carolina, Chapel Hill.

United States Geological Survey (USGS)

2013 Chapel Hill, North Carolina 7.5 minute quadrangle map.

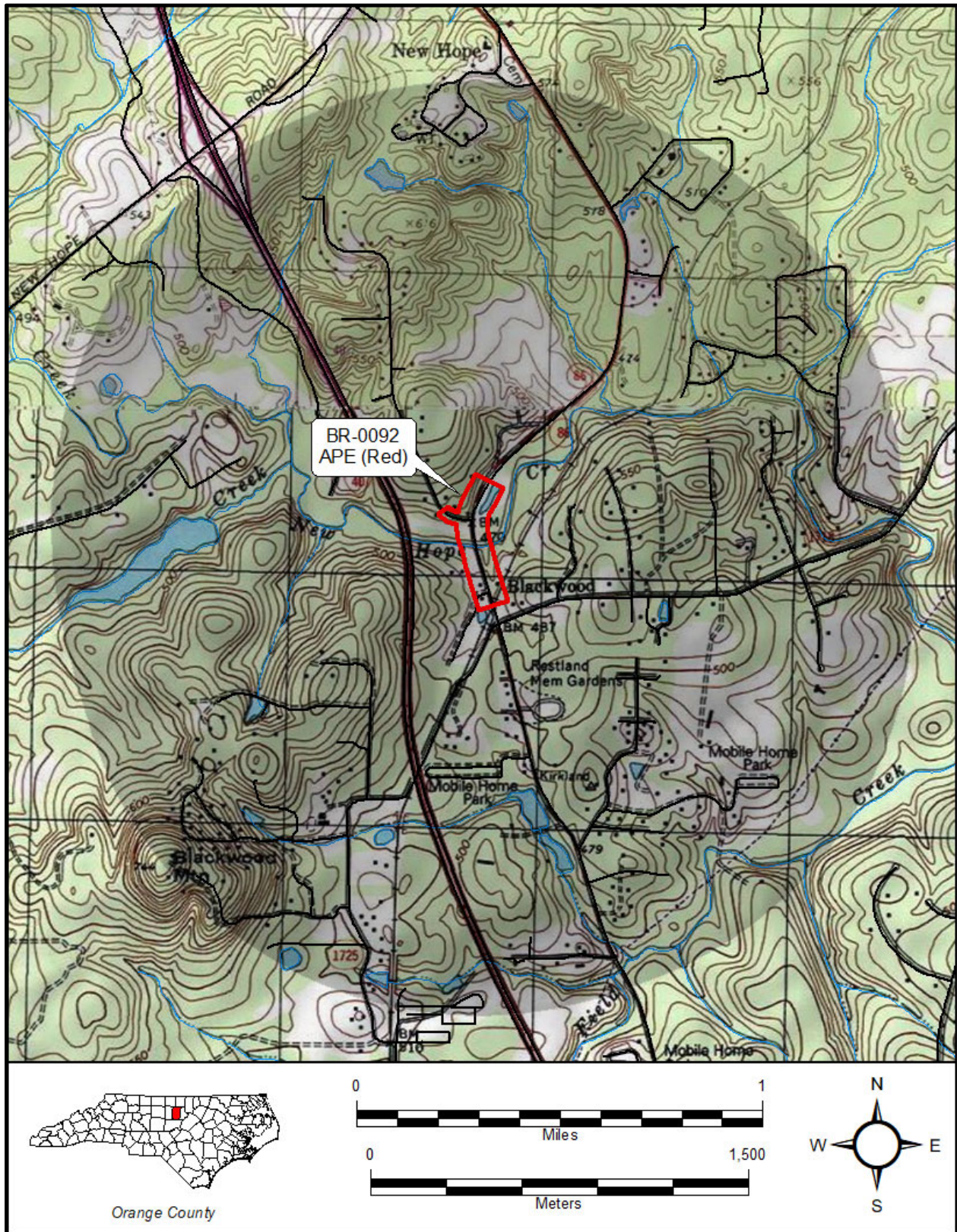


Figure 1. Topographic Setting of the Project Area, Chapel Hill (2013), NC USGS 7.5 Topographic Quadrangle.

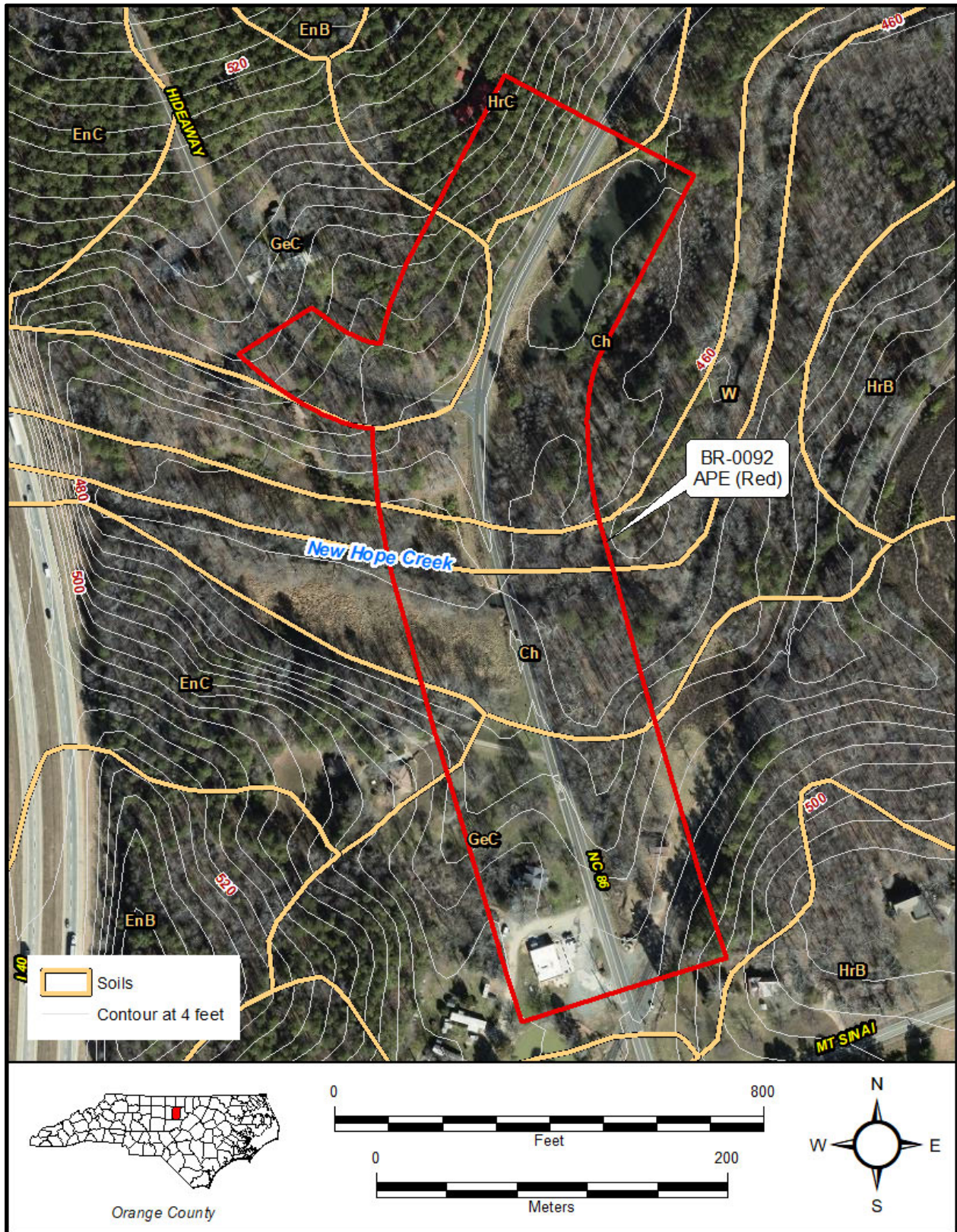


Figure 2. Aerial photograph of the APE showing development, contours, and soils.

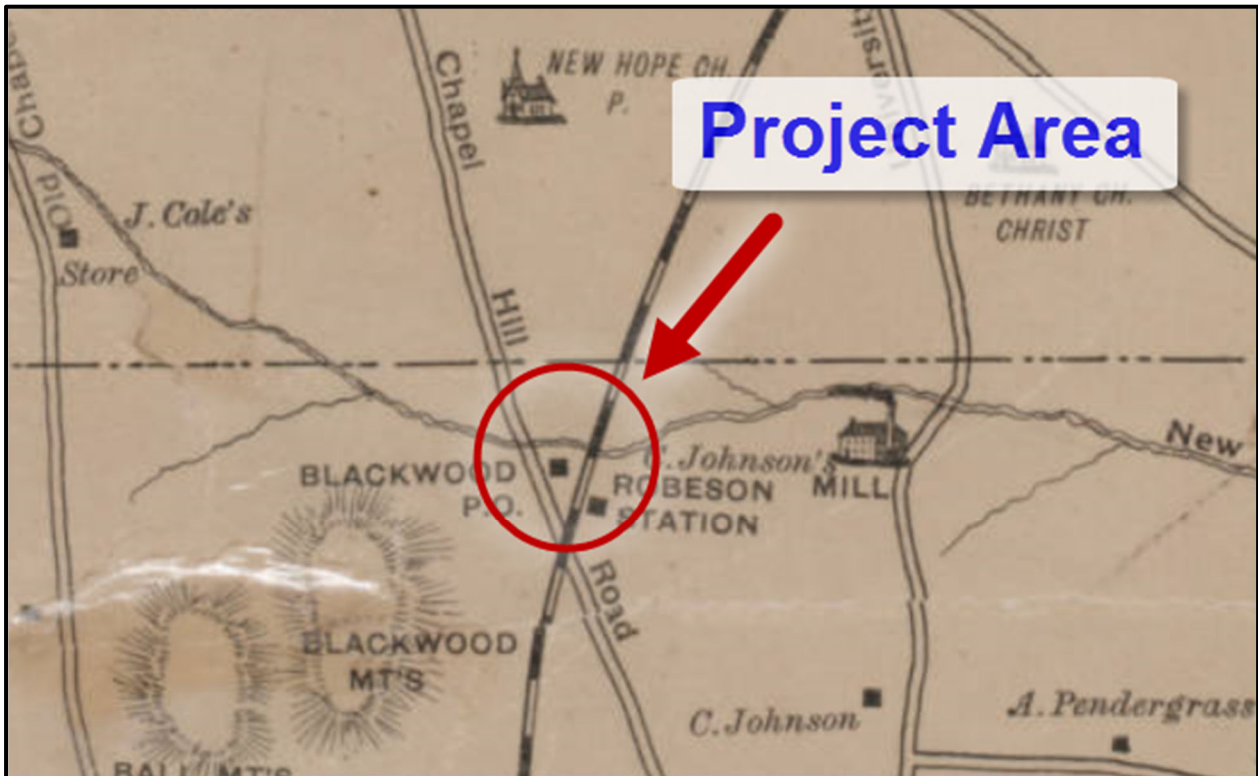


Figure 3. The 1891 *Map of Orange County* by George Tate and Theophilus Moore showing the location of the project area.

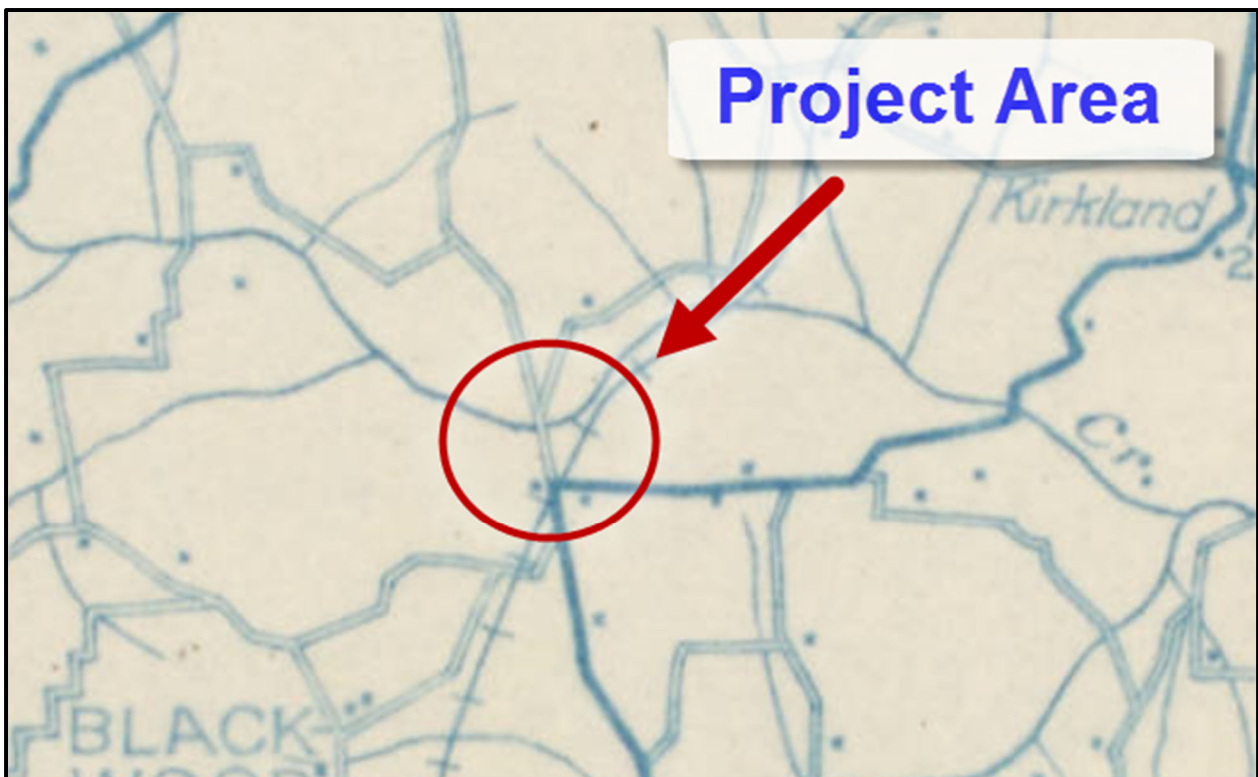


Figure 4. The circa 1910 *Rural Deliver Routes for Orange County* showing the location of the project area.

Robinson, David

From: Peterson, Tierre R <trpeterson@ncdot.gov>
Sent: Monday, January 24, 2022 4:24 PM
To: Kaleigh Pollak; Demery, Dustin A; David.E.Bailey2@usace.army.mil
Cc: Bowles, Jacquelyn K; Robinson, David; Byron Atkinson
Subject: Re: [External] RE: B-6038 & BR-0092 Tribal Letter

Kaleigh,
Thank you for the response. We will document this on our project sites.

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

919 707 6488 office
trpeterson@ncdot.gov

1000 Birch Ridge Drive
Raleigh, NC 27610



Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

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

From: Kaleigh Pollak <Kaleigh@monacannation.com>
Sent: Monday, January 24, 2022 3:22 PM
To: Demery, Dustin A <dademery@ncdot.gov>; Peterson, Tierre R <trpeterson@ncdot.gov>; David.E.Bailey2@usace.army.mil <david.e.bailey2@usace.army.mil>
Subject: [External] RE: B-6038 & BR-0092 Tribal Letter

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 Consultation@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



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From: Tribal Office <TribalOffice@monacannation.com>
Sent: Wednesday, January 5, 2022 10:27 AM
To: Kaleigh Pollak <Kaleigh@monacannation.com>
Subject: Fw: B-6038 & BR-0092 Tribal Letter

From: Demery, Dustin A <dademery@ncdot.gov>
Sent: Tuesday, January 4, 2022 2:21 PM
To: Tribal Office <TribalOffice@monacannation.com>
Cc: Peterson, Tierre R <trpeterson@ncdot.gov>; Bowles, Jacquelyn K <jkbowles@ncdot.gov>; Stutts, David S <dstutts@ncdot.gov>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>; David.E.Bailey2@usace.army.mil <david.e.bailey2@usace.army.mil>; Morales, Suzette (FHWA) <omojojadvwe.morales@dot.gov>
Subject: B-6038 & BR-0092 Tribal Letter

Good Afternoon,

Please see the attached project study letter for NCDOT Projects B-6038 and BR-0092. Please let us know by February 11th if you have any questions or comments.

Sincerely,

Dustin Demery
Engineer I

Structures Management Unit
North Carolina Department of Transportation

dademery@ncdot.gov

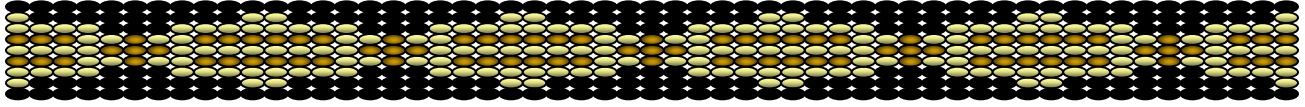
1000 Birch Ridge Drive
Raleigh, NC 27610

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

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



February 2, 2022

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

Re. THPO #	TCNS #	Project Description
2022-193-62		STIP B-6038; STIP BR-0080; and STIP BR-0092

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