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? Is this application for a project associated with emergency response/repairs from Hurricane Helene impacts to your project or property? Is this project connected with ARPA funding or S.L. 2023-134 (earmark)?* ○ ARPA ○ S.L. 2023-134 (earmark) ○ No County (or Counties) where the project is located: * Wake Is this a NCDMS Project* Yes No. Click Yes, only if NCDMS is the applicant or co-applicant DO NOT CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT. Is this project a public transportation project?* Yes \(\cap \) No This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project. Is this a NCDOT Project?* Yes \(\cap \) No (NCDOT only) T.I.P. or state project number: 30001.WIUM.002 **WBS #*** 30001.WIUM.002 (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 1b. What type(s) of permit(s) do you wish to seek authorization?* Nationwide Permit (NWP)

Regional General Permit (RGP)

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

Standard (IP)

Yes No

NWP Numbers (for multiple NWPS):		
List all NW numbers you are applying for not on the drop d		
1d. Type(s) of approval sought from the DWI 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 b	ecause written approval is not required?	
		*
For the record only for DWR 401 Certification	n:	○ 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-li If so, attach the acceptance letter from mitigation bank or in-	eu fee program proposed for mitigation of imposeus fee program.	pacts?
○ Yes	No	
Acceptance Letter Attachment Click the upload button or drag and drop files here to attact FILE TYPE MUST BE PDF	n document	
1h. Is the project located in any of NC's twer	ity coastal counties?*	
○ Yes	No	
1j. Is the project located in a designated trou Yes No	it watershed?*	
Link to trout information: http://www.saw.usace.	army.mil/Missions/Regulatory-Permit-Program/Aç	ency-Coordination/Trout.aspx
B. Applicant Information	1	©
1a. Who is the Primary Contact? * Robert Crowther		
		1c. Primary Contact Phone:*
1b. Primary Contact Email: * recrowther@ncdot.gov		1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov		(xxx)xxx-xxxx
		(xxx)xxx-xxxx
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply)	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this projection.	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this proj Yes No	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this project of the permit of	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this pro Yes No 2. Owner Information 2a. Name(s) on recorded deed:* NCDOT	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this project of the permit of the of the permi	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this pro Yes No 2. Owner Information 2a. Name(s) on recorded deed:* NCDOT 2b. Deed book and page no.: 2c. Contact Person: (for Corporations)	ect?*	(xxx)xxx-xxxx (919)707-6112
recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this project of the permit of the project of the permit of the project of the project of the permit of the project of the permit of the project of the permit of the perm	ect?*	(919)707-6112 Applicant (other than owner) State / Province / Region
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recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this property of the permit of the of the	ect?*	(919)707-6112 Applicant (other than owner) State / Province / Region NC Country
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recrowther@ncdot.gov 1d. Who is applying for the permit?* Owner (Check all that apply) 1e. Is there an Agent/Consultant for this property of the permit of the permit of the property of the permit of the	ect?*	(919)707-6112 Applicant (other than owner) State / Province / Region NC Country

2g. Email Address:*			
ekcheely@ncdot.gov			
3. Applicant Information (if different from	owner)		
3a. Name:*			
Robert Crowther			
3b. Business Name:			
(if applicable)			
3c. Address*			
Street Address			
1598 Mail Service Center			
Address Line 2			
City Raleigh		State / Province / Region NC	
Postal / Zip Code		Country	
27699-1598		US	
Od Talashara Nambara*			
3d. Telephone Number: * (919)707-6112		3e. Fax Number:	
(xxx)xxx-xxxx		(xxx)xxx-xxxx	
3f. Email Address:*			
recrowther@ncdot.gov			
C. Project Information and Prior	Project History		
•			
1. Project Information			
1a. Name of project: * 30001.WIUM.002 (Umstead State Park Pedestrian Bridge)			
1b. Subdivision name: (if appropriate)			
1c. Nearest municipality / town: *			
Raleigh			
2. Project Identification			\bigcirc
2a. Property Identification Number:		2b. Property size:	
(tax PIN or parcel ID)		(in acres)	
2c. Project Address Street Address			
Address Line 2			
City		State / Province / Region	
Postal / Zip Code		Country	
2d. Site coordinates in decimal degrees			
		g a survey-grade GPS device) after the decimal place as appropriate, based on how the location was all degrees to map coordinates to 5 or 6 digits after the decimal place.)	
Latitude:*	Longitude: *		
35.8454793	-78.7245127		
ex: 34.208504	-77.796371		
3. Surface Waters			
3a Name of the nearest body of water to proposed project	.*		

Crabtree Creek

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

B;NSW

Surface Water Lookup

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

Neuse

3d. Please provide the 12-digit HUC in whit 030202010803	ch the project is located.*		
River Basin Lookup			
4. Project Description and	History		
The site is located within the right-of-way for	e site and the general land use in the vicinity of the projection. Ebenezer Church Road along the eastern boundary of William in mediate vicinity of this site are predominately a recreat	iam Umstead State Park. The greenway bridge crosses Crabtree Creek as part of	
4b. Have Corps permits or DWR certification One Yes ■ No Unknown	ons been obtained for this project (including all prior pl	hases) in the past?*	
4f. List the total estimated acreage of all e	xisting wetlands on the property:		
4g. List the total estimated linear feet of al (intermittent and perennial)	I existing streams on the property:		
in Umstead State Park. Repairs were attemp	ridge 911473, which was previously located on the old align	ment of Ebenezer Church Road and is now utilized as a stream crossing for a trail sed into Crabtree Creek during removal. A new bridge will be built in-place to be State Park vehicles.	
	, ,	be used: * ents will be retained. The bridge will have 2'6" end bent caps with 1.5:1 rip-rap	
Existing utilities will be raised within their exis alignment.	sting alignment south of the bridge to allow construction acc	cess to the site. Up to five new poles are expected to be installed on the existing	
5. Jurisdictional Determina	itions		
5a. Have the wetlands or streams been de	lineated on the property or proposed impact areas?*	○ Unknown	
Comments:			
5b. If the Corps made a jurisdictional dete Preliminary Approved Not Verified	rmination, what type of determination was made?*		
Corps AID Number: Example: SAW-2017-99999			
5c. If 5a is yes, who delineated the jurisdic	ctional areas?		
Name (if known):	H. Bain / N. Blackford		
Agency/Consultant Company:	RK&K		
Other:	max		
6. Future Project Plans			
6a. Is this a phased project?* Yes	⊚ No		
Are any other NWP(s), regional general pe		e used, to authorize any part of the proposed project or related activity? This include on but don't require pre-construction notification.	es other
D. Proposed Impacts I	nventory		\bigcirc
1. Impacts Summary			
1a. Where are the impacts associated with	your project? (check all that apply):		
✓ WetlandsOpen Waters	Streams-tributaries Pond Construction	☑ Buffers	
2. Wetland Impacts If there are wetland impacts propose	d on the site, then complete this question for each	ch 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 Jurisdicition*	2g. Impact
						(?)	area*

	Mechanized Clearin	g P	Flo	odplain Pool	WA	Ye	S	Corps	0.003 (acres)
. To	al Temporary Wetland Impact	<u> </u>			'	"		-11	
000									
	al Permanent Wetland Impact								
003									
	al Wetland Impact								
.003									
	nments: nized clearing within wetland WA	is needed for adequ	ate construction	access.					
	ream Impacts								
tnei	e are perennial or intermitt	ent stream impa	-			the word "stream"	-	stion for all strea	m sites impacted.
	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of im	pact* 3d. S. na	me*	3e. Stream Type	3f. Type of	f 3g. S.	width * 3h. Impact
						(?)	Jurisdiction		length*
S1	Pedestrian Bridge	Permanent	Bank Stabilizati	on Crabtree	Creek	Perennial	Both	60 Averaç	56 (linear feet)
52	Construction Access	Temporary	Other	Crabtree	Creek	Perennial	Both	60	30
_									ge (feet) (linear feet)
o i. Tot	al temporary stream impacts: al stream and ditch impacts:								
ii. Totalii. Totaliii. Totaliiii. Totaliii. Totaliii. Totaliii. Totaliii. Totaliii. Totaliii. To	al stream and ditch impacts: nments: manent stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(sall that apply.	WR) riparian buffer, t					low.		
i. Total 6 j. Cor j. Cor a. Pro Check Neu Cat	al stream and ditch impacts: nments: nanent stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(s all that apply. Isse awba use Creek	WR) riparian buffer, t			dividually list al		low.		
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i. Total	al stream and ditch impacts: nments: nanent stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(s all that apply. use awba ose Creek er	WR) riparian buffer, t	hen complete	the chart below. In	dividually list al	I buffer impacts be		6f. Zone 1 impact* 1,036 (square feet)	6g. Zone 2 impact 721 (square feet)
i. Total 6 i. Total 6 i. Total 6 ii. Total 6 ii. Total 6 iii. Total 7	nments: nanent stream impacts are result uffer Impacts (for D' ect will impact a protected oject is in which protect basin(s all that apply. Isse awba ose Creek er	WR) riparian buffer, t	hen complete	the chart below. In	dividually list al	I buffer impacts be		1,036	721
0 ii. Totil 6 ii. Totil 6 iii. Totil 6 iii. Totil 6 iii. Totil 7 iii.	al stream and ditch impacts: naments: nament stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(s) all that apply. Isse awba use Creek er upact Type* (?) ruction Access (Allowable)	WR) riparian buffer, t s)?* 6c. Po	hen complete	the chart below. In 6d. Stream name * Crabtree Creek	dividually list al	Il buffer impacts be		1,036 (square feet)	721 (square feet)
ii. Totalia Constantia	al stream and ditch impacts: nments: manent stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(s) all that apply. Isse awba ose Creek er upact Type* (?) ruction Access (Allowable)	WR) riparian buffer, t s)?* 6c. Po	hen complete	6d. Stream name* Crabtree Creek Crabtree Creek	dividually list al	Il buffer impacts be		1,036 (square feet)	721 (square feet)
ii. Totalia ii. Totalia iii. To	al stream and ditch impacts: nments: manent stream impacts are result uffer Impacts (for Di ect will impact a protected oject is in which protect basin(s) all that apply. Isse awba ose Creek er upact Type* (?) ruction Access (Allowable)	WR) riparian buffer, t s)?* 6c. Po	hen complete	the chart below. In 6d. Stream name * Crabtree Creek Crabtree Creek	Tar-Pamlico Randleman Jordan Lake	Il buffer impacts be		1,036 (square feet)	721 (square feet)
ii. Totalia ii. Totalia iii. To	al stream and ditch impacts: naments: nament stream impacts are result uffer Impacts (for Di ect will impact a protected bject is in which protect basin(s all that apply. Isse awba use Creek er pact Type* (?) ruction Access (Allowable) Total buffer impa	WR) riparian buffer, t s)?* 6c. Po T P acts:	hen complete	the chart below. In 6d. Stream name * Crabtree Creek Crabtree Creek	dividually list al	Il buffer impacts be		1,036 (square feet)	721 (square feet)

0.00

168.00

Total Permanent impacts:

Total combined buffer impacts: 1,204.00 721.00	
6i. Comments: There is an additional 65 sq ft of Zone 2 buffer impacts that are being classified as wetland impacts within this application.	
E. Impact Justification and Mitigation	\bigcirc
1. Avoidance and Minimization	
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *	
The proposed pedestrian bridge will be constructed within existing right-of-way on the alignment of the previous structure. Clearing for construction access has been limited to what is needed, and the proposed bank stabilization has been minimized to what is required for adequate protection of the new structure.	
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: * The interior bents that are existing will not be removed, and will be used to support the new structure across Crabtree Creek. Sediment and erosion control measures will adhere to the	
Design Standards in Sensitive Watersheds during construction of the project. The extent of mechanized clearing within wetland WA has been kept to the minimum required for construction access. Existing utilities are not being relocated, and will be moved vertically to create the required construction access.	
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State	
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? Yes No	
2b. If this project DOES NOT require Compensatory Mitigation, explain why: Permanent wetland impacts are below the typical threshold (0.10 acre) that would require compensatory mitigation. Permanent stream impacts are limited to bank stabilization that will not result in permanent loss of stream function.	
All proposed permanent riparian buffer impacts are classified as "Allowable Upon Authorization" within the Neuse River as either streambank or shoreline stabilization, or bridges.	
NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.	
F. Stormwater Management and Diffuse Flow Plan (required by DWR)	\bigcirc
*** 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? 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 proinclude a plan that fully documents how diffuse flow will be maintained.	gram,
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	\bigcirc
G. Supplementary Information 1. Environmental Documentation	<u> </u>
	<u> </u>

Yes

O No

2. Violations (DWR Requirement) 2. Let the size in violation of DWR Requirement) 2. Let the size in violation of DWR Requirements 3. Cumulative Impacts (DWR Requirement) 3. Will this project board on asst and managed future impacts) result in additional development, which could impact nearly development water quality? 3. Cumulative Impacts (DWR Requirement) 3. Will this project board on asst and managed future impacts) result in additional development, which could impact nearly development water quality? 3. Cumulative Impacts (DWR Requirement) 3. Will this project dozen to represent would be added future impacts and the second of the second of the second development would be appeted to accur as a result of the second o	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.)*
2. Is the abili in violation of DWR Water Clusiby Certification Rules (15A NCAC 29. 4500), to obtain Westand Rules (15A NCAC 29. 1300), or DWR Surface Water or Westand Blandards or Repairs Buffer Rules (15A NCAC 20. 2000)? 3. Cumulative Impacts (DWR Requirement) 3. Will fish project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? 4. If you answered "no." provide a situ name and reasonably anticipated future impacts; result in additional development, which could impact nearby downstream water quality? 5. If you answered "no." provide a situ name and easing point had properly of the bediever. 4. Sowage Disposal (DWR Requirement) 5. Sowage Disposal (DWR Requirement) 5. Endangered Species and Designated Critical Habitat (Corps Requirement) 5. Will this project occur in or near an area with indentily protected species or habitat? 5. Endangered Species and Designated Critical Habitat (Corps Requirement) 5. Will be project occur in or near an area with indentily protected species or habitat? 6. Endangered Species and Designated Designated Critical Habitat (Corps Requirement) 6. Is to his a DOT project located within Division's 1-3? 6. Sowage Disposal (DWR Requirement) 6. Essential Fish Habitat (Corps Requirement) 6. Essential Fish Habitat (Corps Requirement) 7. Will do not be secretically project occur in or near an area which report is would impact Endangered Species or Designated Critical Habitat? 8. Will do not be secretically project occur in or near an area designated as a Essential Fish Habitat? 8. Will do not be secretically project occur in or near an area and the setting for the Properties Map (Species Act Impacts) 9. No. 9. No.			,
2. Is the abili in violation of DWR Water Clusiby Certification Rules (15A NCAC 29. 4500), to obtain Westand Rules (15A NCAC 29. 1300), or DWR Surface Water or Westand Blandards or Repairs Buffer Rules (15A NCAC 20. 2000)? 3. Cumulative Impacts (DWR Requirement) 3. Will fish project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? 4. If you answered "no." provide a situ name and reasonably anticipated future impacts; result in additional development, which could impact nearby downstream water quality? 5. If you answered "no." provide a situ name and easing point had properly of the bediever. 4. Sowage Disposal (DWR Requirement) 5. Sowage Disposal (DWR Requirement) 5. Endangered Species and Designated Critical Habitat (Corps Requirement) 5. Will this project occur in or near an area with indentily protected species or habitat? 5. Endangered Species and Designated Critical Habitat (Corps Requirement) 5. Will be project occur in or near an area with indentily protected species or habitat? 6. Endangered Species and Designated Designated Critical Habitat (Corps Requirement) 6. Is to his a DOT project located within Division's 1-3? 6. Sowage Disposal (DWR Requirement) 6. Essential Fish Habitat (Corps Requirement) 6. Essential Fish Habitat (Corps Requirement) 7. Will do not be secretically project occur in or near an area which report is would impact Endangered Species or Designated Critical Habitat? 8. Will do not be secretically project occur in or near an area designated as a Essential Fish Habitat? 8. Will do not be secretically project occur in or near an area and the setting for the Properties Map (Species Act Impacts) 9. No. 9. No.	O Violetiana (DWD Descriper		
New	2. Violations (DWR Requirer	nent)	
3. Cumulative Impacts (DWR Requirement) 3. With this project (based on past and reasonably anticipated future impacts) result is additional development, which could impact nearby downstream water quality?* \[\frac{1}{2}\] No. \(\frac{1}{2}\) No. \(\frac{1}{2			AC 2H .1300), or DWR Surface Water or Wetland Standards or
3. Cumulative impacts (DWR Requirement) 3. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact meantly downstream water quality? * Yes No Sol. If you asserted "to," provide a short narrative description. The proposed project he registered of a development of the deve			
Note Process		©	
Note:	3. Cumulative Impacts (DWF	Requirement)	
The proposed project is the episcement of a damaged park that is creating of Crabbbee Cheek within Umstead State Park. No additional development would be expected to occur as a result of this action. 4. Sewage Disposal (DWR Requirement) 4. Sewage Disposal (DWR Requirement) 4. Is sewage disposal required by DWR for this project?* 1. Yes	3a. Will this project (based on past and reas	onably anticipated future impacts) result in additional development, which cou	ıld impact nearby downstream water quality?*
A. Sewage Disposal (DWR Requirement) A. Sewage Disposal (DWR Requirement) A. Sewage Disposal (DWR Requirement) A. Is assessed disposal required by DWR for this project? A. Is assessed disposal required by DWR for this project? B. Is assessed disposal required by DWR for this project? B. Is assessed disposal required by DWR for this project? B. Is assessed disposal required by DWR for this project occur in or near an area with federally protected species or habitat? B. Is assessed disposal required by DWR for this project occur in or near an area with federally protected species or habitat? B. Is assessed disposal required by DWR for this project occur in or near an area with federally protected species or habitat? B. Is assessed within the USPNO concerning Endangered Species Act Impacts? B. Is assessed within the USPNO concerning Endangered Species Act Impacts? B. Is assessed within Division's 1.82' B. Is as BDT project located within Division's 1.82' B. Is as BDT project located within Division's 1.82' B. Wast data sources didy ou use to determine whether your after would impact Endangered Species or Designated Critical Nabitat? B. With data assessed and sources didy ou use to determine whether your after would impact Endangered Species or Designated Critical Nabitat? B. With data sources didy ou use to determine whether your after would impact an Essential Fish Habitat? B. With data sources didy ou use to determine whether your after would impact an Essential Fish Habitat? A. Historic or Prehistoric Cultural Resources (Corps Requirement) T. With this project occur in or near an area State the state. Activative project sources did you use to determine whether your after would impact an Essential Fish Habitat? A. With this project occur in or near an area State the state. Activative project sources of you use to determine whether your after would impact historic or archaeological resources? B. What data sources did you use to determine whether your site would impact historic or archaeologi	○ Yes	No	
As is severage disposal required by DWR for this project? Yes No NA	The proposed project is the replacement of a d		nal development would be expected to occur as a result
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Se. Will this project occur in or near an area with federally protected species or habitat?* Yes			
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8b. Have you checked with the USFWS concerning Endangered Species Act Impacts? \[\text{ 'Pes} \] \[\text{ No } \] \[\text	5a. Will this project occur in or near an area	with federally protected species or habitat?*	
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© Mo	5b. Have you checked with the USFWS cond	erning Endangered Species Act impacts?*	
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Nes No On No No No No No No No No No N	5d. Is another Federal agency involved?*		
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Statural resources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?* Natural resource investigations (habitat assessments & surveys) and NHP Element Occurrence database. Please see attached documentation and Minimum Criteria Determination Checklist for additional information. Statural resource investigations (habitat assessments & surveys) and NHP Element Occurrence database. Please see attached documentation and Minimum Criteria Determination Checklist for additional information. Statural resource investigations (habitat (Corps Requirement)		sion's 1-8?*	
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Yes No	Link to the FEMA Floodplain Maps: https://n	nsc.fema.gov/portal/search	
Yes No			
	8a. Will this project occur in a FEMA-design	ated 100-year floodplain?*	
8b. If yes, explain how project meets FEMA requirements:	Yes	○ No	
	8b. If yes, explain how project meets FEMA	requirements:	

This project meets FEMA requirements by obtaining State Floodplain Compliance (SFC) approval through the NCDOT Hydraulics Unit's Highway Floodplain Program.

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

FEMA National Flood Hazard Layer (NFHL) Viewer (https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd).

Miscellaneous

Comments

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

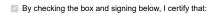
Click the upload button or drag and drop files here to attach document

Umstead Pedestrian Bridge PCN Attachment.pdf

10.36MB

File must be PDF or KMZ

Signature



- 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

5/29/2025

Permit Drawings



North Carolina Department of Transportation **Highway Stormwater Program** STORMWATER MANAGEMENT PLAN Version 3.02; Released April 23, 2024) FOR NCDOT PROJECTS WBS Element: 30001.WIUM.002 TIP/Proj No: Umstead Bridge County(ies): Wake Page **General Project Information** WBS Element: 30001.WIUM.002 TIP Number: 5/14/2025 Umstead Bridge Project Type: Bridge Replacement Date: Craig Lee, PE NCDOT Contact: Contractor / Designer: Address: 1020 Birch Ridge Dr Address: Raleigh, NC, 27610 Phone: Phone: Email: cilee@ncdot.gov Email: City/Town: Raleigh, NC County(ies): Wake River Basin(s): Neuse CAMA County? No Wetlands within Project Limits? No **Project Description** State Park/Residential Project Length (lin. miles or feet): .023 miles Surrounding Land Use: **Proposed Project Existing Site** Project Built-Upon Area (ac.) 0.1 Typical Cross Section Description: 15' wide bridge w/ standard timber railing 26' wide bridge w/ standard timber railing Annual Avg Daily Traffic (veh/hr/day): Design/Future: N/A Year: Existina: Year: **General Project Narrative:** This project involves the removal and replacement of bridge 911473 over Crabtree Creek. This is a greenway bridge located on South Turkey Creek Trail in Umstead State Park. (Description of Minimization of Water Since this is a greenway bridge, there are only pedestrians and cyclists. This bridge is a replace in kind and will be extended 2' on either end. The roadway grade and interior bents will be retained. The bridge will have 2'6" end bent caps with 1.5:1 rip-rap sloping abutments. Both banks will be stabilized with class-II rip-rap. Quality Impacts)

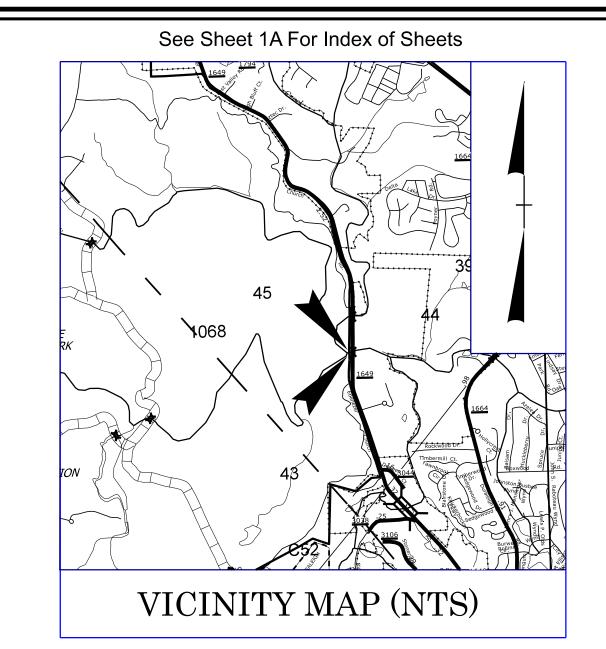


North Carolina Department of Transportation



Highway Stormwater Program

THARCH			STORMWATER MAN				A STATE OF THE PARTY OF THE PAR	Or IKANIBON		
(Version 3.02; Released April 23, 2024)			FOR NCDOT F	PROJECTS						
WBS Element: 30001.WIUM.002	TIP/Proj No.:	Umstead Bridg	e County(ies):	Wake			Page	2	of	2
			General Project	Information						
			Waterbody Inf	ormation						
Surface Water Body (1):		Crabtre	ee Creek	NCDWR Stream In	dex No.:		27-33-(3.5)			
NCDWR Surface Water Classification f	or Water Body		Primary Classification: Class B							
ODTIN Guillage Water Glassification for Water Body		Supplemental Classification:	Nutrient Sensitive V	Vaters (NSW)						
Other Stream Classification:	No	ne								
Impairments:	No	ne								
Aquatic T&E Species?	No	Comments:								
NRTR Stream ID:						Buffer Rules in Effect:		1	Veuse	
Project Includes Bridge Spanning Water	er Body?	No	Deck Drains Discharge Over Bu		No	Dissipator Pads Provided			No	
Deck Drains Discharge Over Water Boo		No	(If yes, provide justification in	the General Project I	Narrative)	(If yes, describe in the Ge			o, justify i	n the
(If yes, provide justification in the General Project Narrative)						Gene	eral Project Nari	rative)		
Surface Water Body (2):			_	NCDWR Stream In	dex No.:		T			
NCDWR Surface Water Classification for Water Body			Primary Classification:						4	
			Supplemental Classification:						4	
Other Stream Classification:										
Impairments:										
Aquatic T&E Species?		Comments:								
NRTR Stream ID:						Buffer Rules in Effect:				
Project Includes Bridge Spanning Water	er Body?		Deck Drains Discharge Over Bu			Dissipator Pads Provided				
Deck Drains Discharge Over Water Boo			(If yes, provide justification in	the General Project I	Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the				n the
(If yes, provide justification in the	General Project N	arrative)				Gene	eral Project Nari	rative)		
Surface Water Body (3):				NCDWR Stream In	dex No.:					
NCDWR Surface Water Classification for	or Water Body		Primary Classification:							
	-		Supplemental Classification:							
Other Stream Classification:										
Impairments:									1	
Aquatic T&E Species?		Comments:								
NRTR Stream ID:		•				Buffer Rules in Effect:				
Project Includes Bridge Spanning Water	er Body?		Deck Drains Discharge Over Bu	ıffer?		Dissipator Pads Provided	in Buffer?			
Deck Drains Discharge Over Water Boo				(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the			
(If yes, provide justification in the General Project Narrative)						General Project Narrative)				



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

WAKE COUNTY

LOCATION: BRIDGE 91-1473 OVER CRABTREE CREEK

UMSTEAD STATE PARK

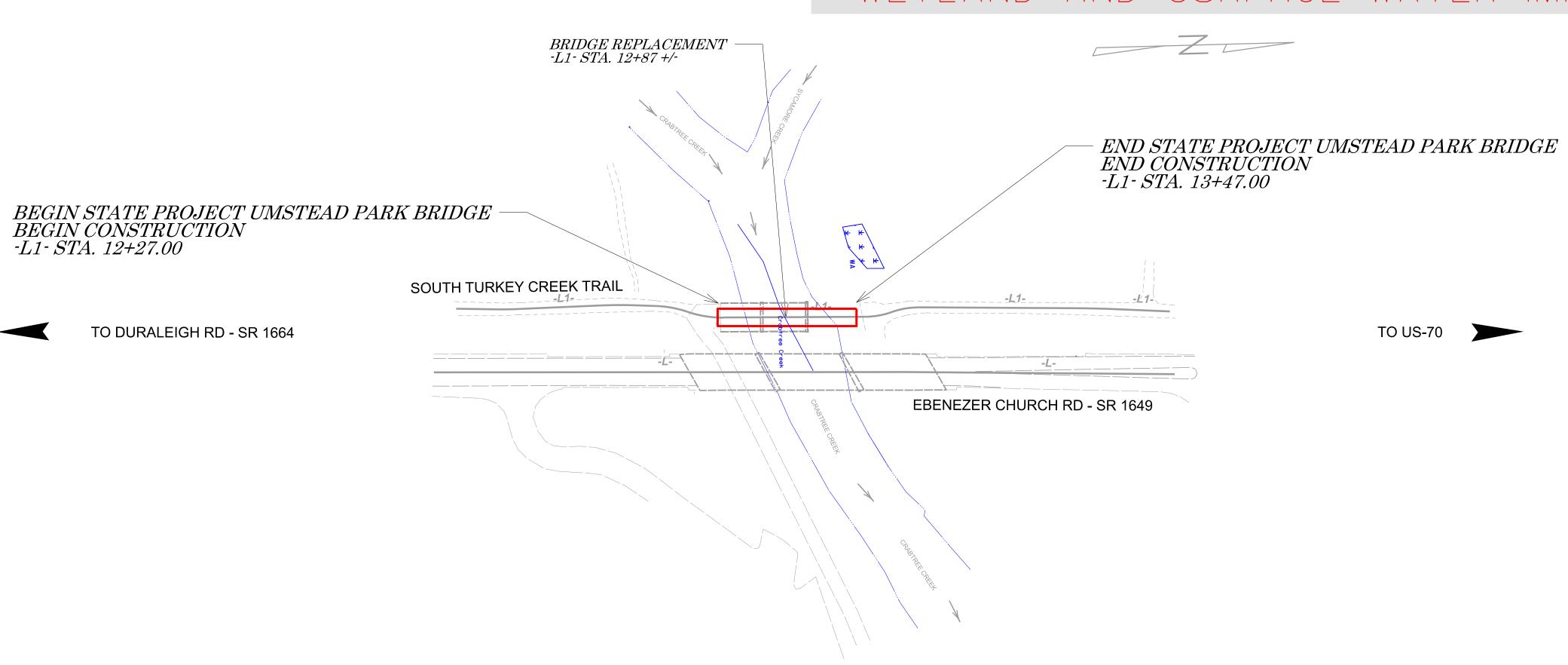
SOUTH TURKEY CREEK TRAIL

TYPE OF WORK: IN KIND BRIDGE REPLACEMENT

STATE	STAT	E PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS	
$\mathbb{N}.\mathbb{C}.$	3000	1				
STAT	E PROJ. NO.	F. A. PROJ. NO.		DESCRIPT	TION	

PERMIT DRAWING SHEET 1 OF 6

WETLAND AND SURFACE WATER IMPACTS PERMIT



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROFILE (VERTICAL)

PROJECT LENGTH

LENGTH OF ROADWAY UMSTEAD PARK BRIDGE = 0.00 MILES

LENGTH OF STRUCTURE UMSTEAD PARK BRIDGE = 0.023 MILE

TOTAL LENGTH OF UMSTEAD PARK BRIDGE = 0.023 MILES

Prepared in the Office of: DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2024 STANDARD SPECIFICATIONS

Sara Sherman, PE

RIGHT OF WAY DATE:

LETTING DATE: NOVEMBER 18, 2025 PROJECT DESIGN ENGINEER

Sara Sherman, PE

PROJECT ENGINEER

NCDOT CONTACT

P.E.

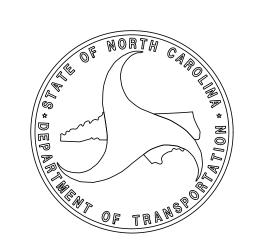
SIGNATURE:

ROADWAY DESIGN ENGINEER

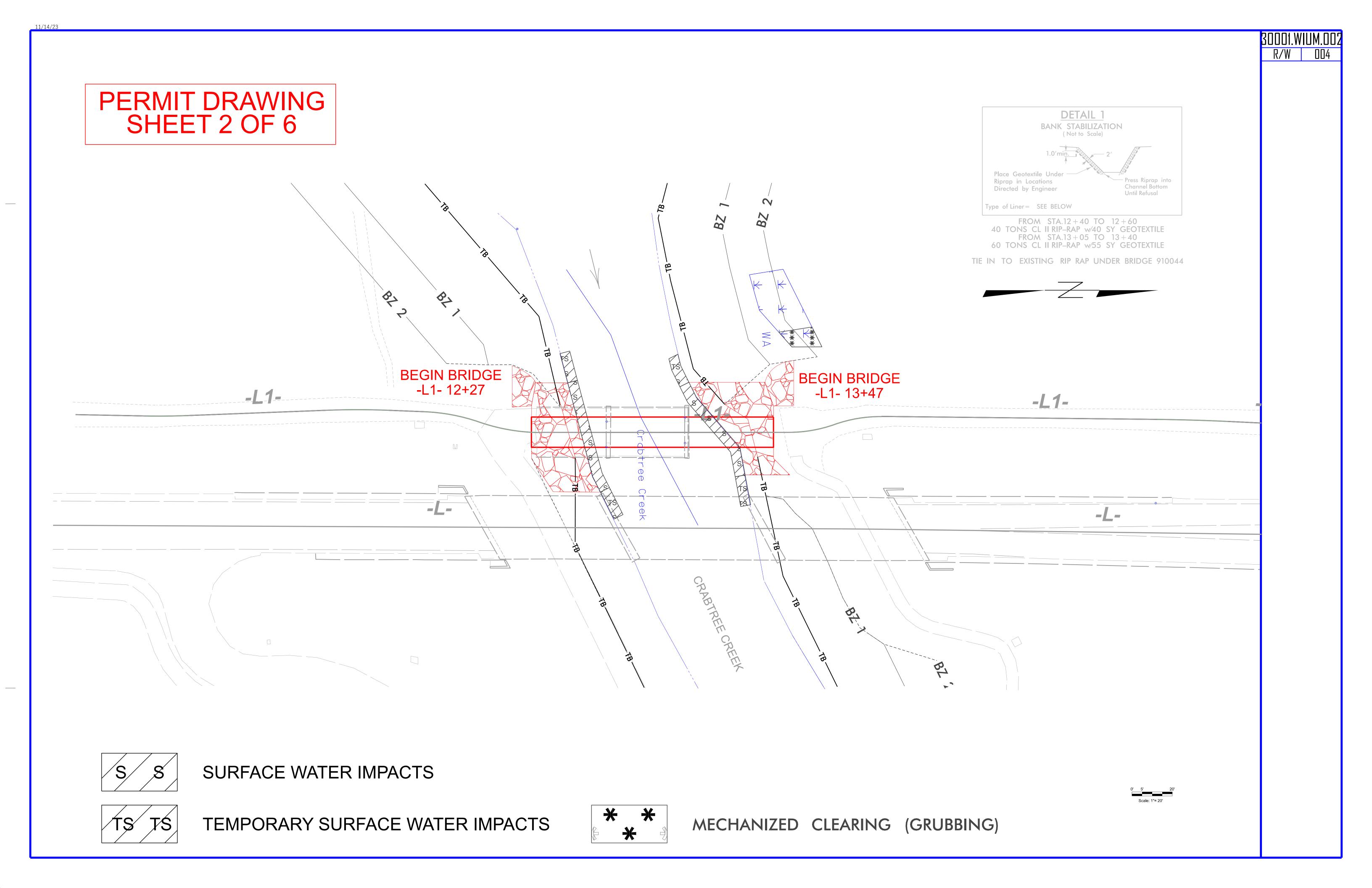
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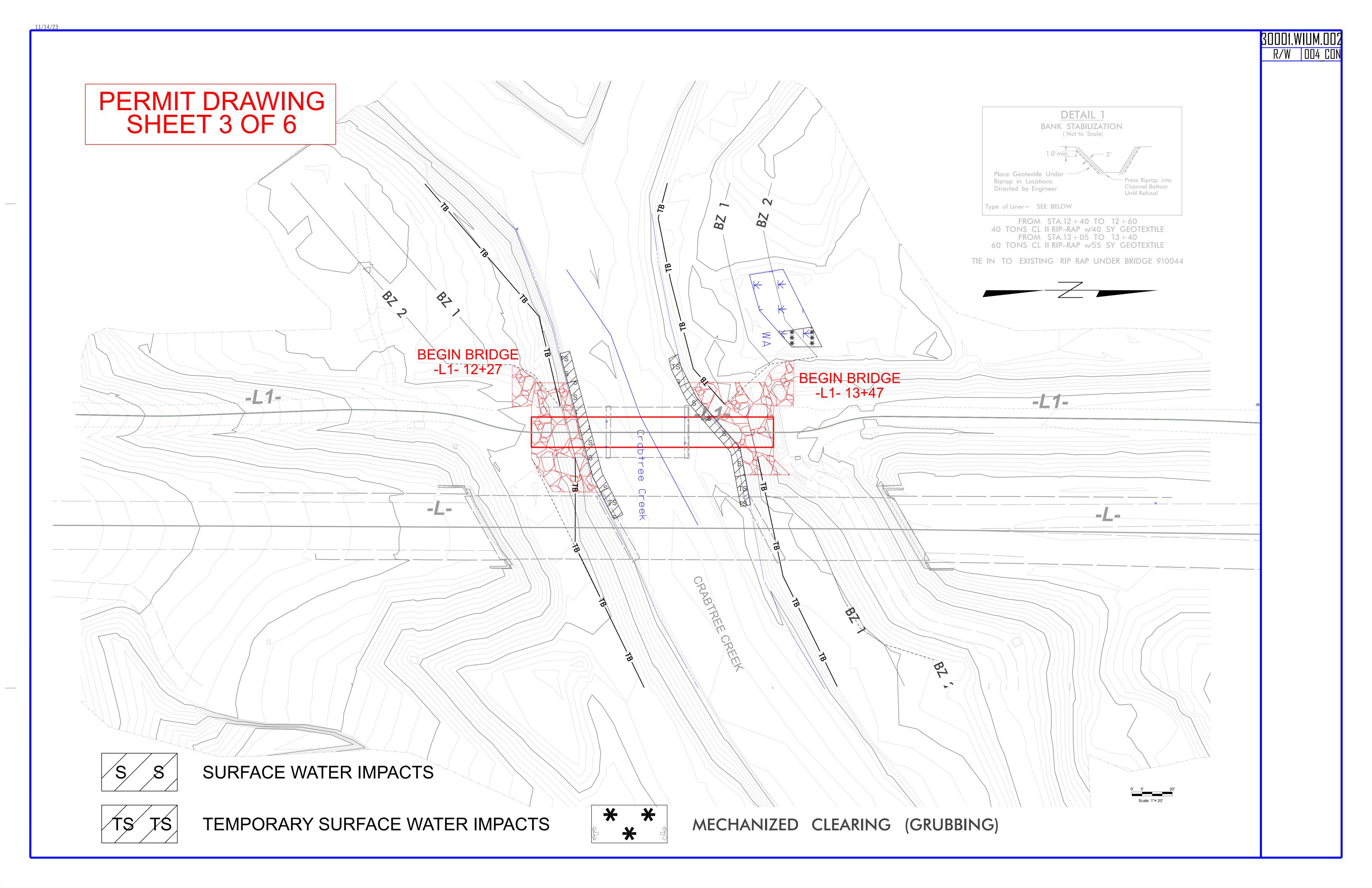
HYDRAULICS ENGINEER

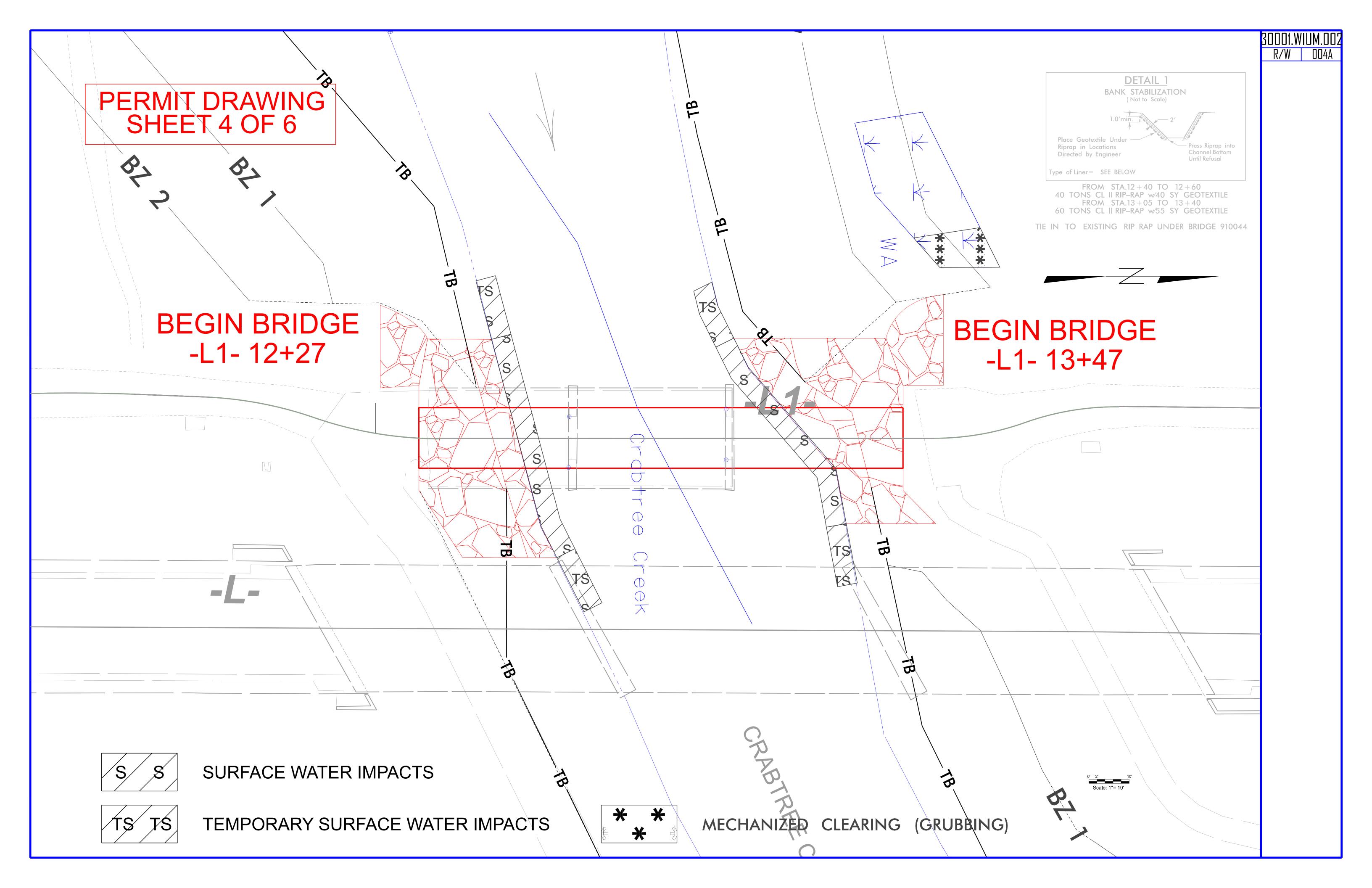
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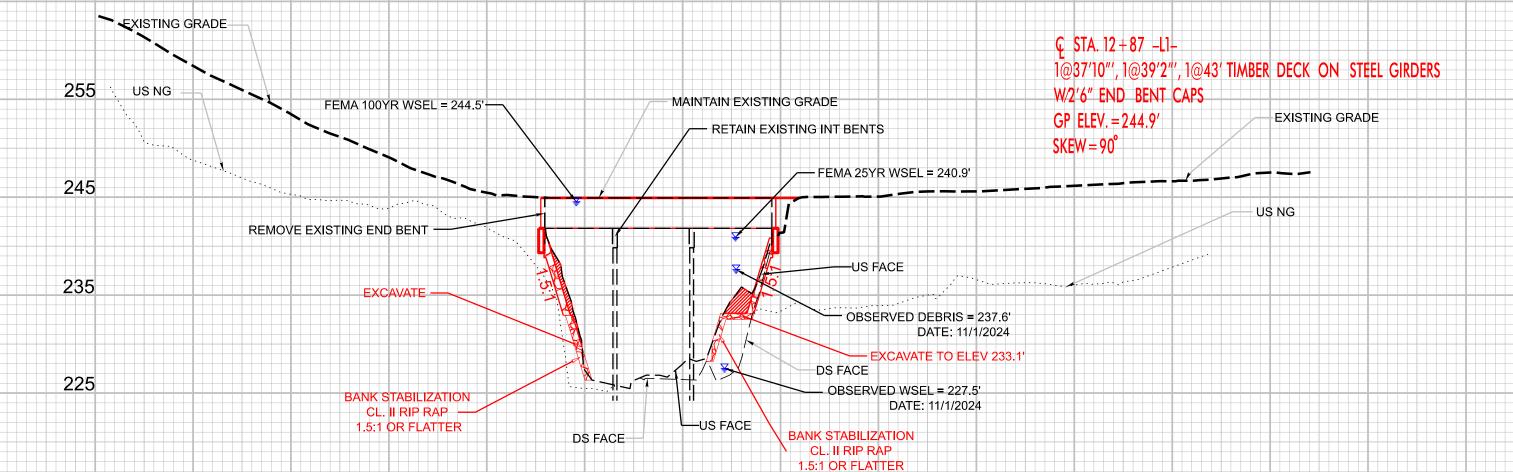


DOT/iiennings4 - 5/14/2025









Site				WETLAND IMPACTS					SURFACE WATER IMPACTS				
No.	Station (From/To)	Structure Size / Type	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)		
1	12+87	Bank Stabilization						0.01	< 0.01	56	30		
1 1	13+50, 49' L to 13+78, 40' L	Construction Access				< 0.01							

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
5/14/2025
Wake

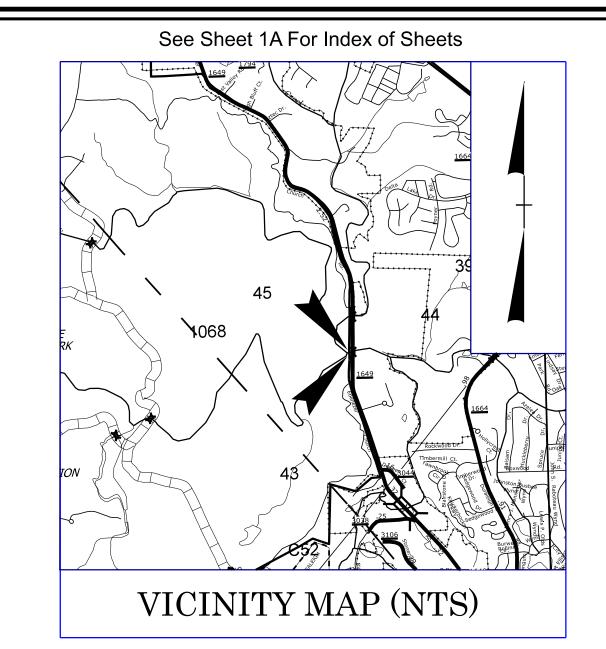
30001.WIUM.002

SHEET

6

OF

6



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

WAKE COUNTY

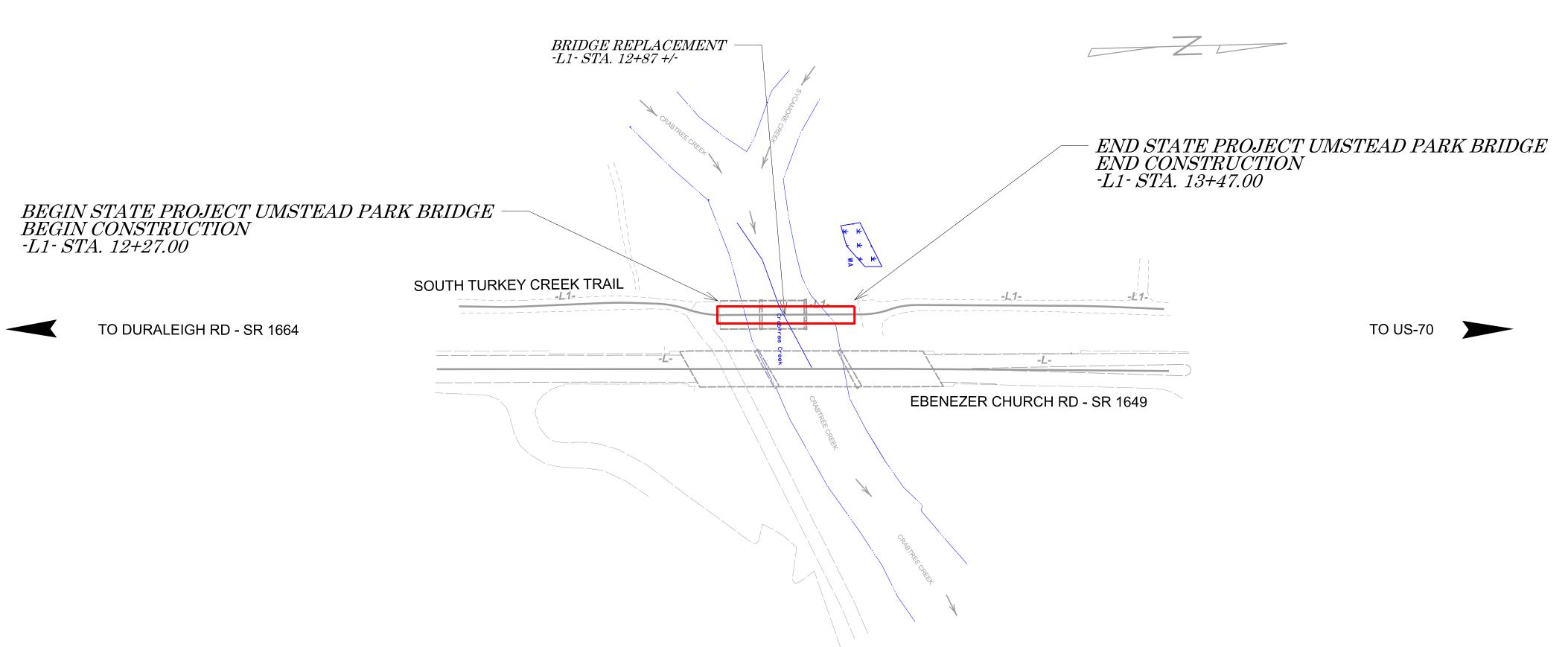
LOCATION: BRIDGE 91-1473 OVER CRABTREE CREEK UMSTEAD STATE PARK SOUTH TURKEY CREEK TRAIL

TYPE OF WORK: IN KIND BRIDGE REPLACEMENT

30001.WIUM.002

BUFFER IMPACTS PERMIT

PERMIT DRAWING SHEET 1 OF 6



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

GRAPHIC SCALES PROFILE (HORIZONTAL) PROFILE (VERTICAL)

PROJECT LENGTH

LENGTH OF ROADWAY UMSTEAD PARK BRIDGE = 0.00 MILES LENGTH OF STRUCTURE UMSTEAD PARK BRIDGE = 0.023 MILE TOTAL LENGTH OF UMSTEAD PARK BRIDGE = 0.023 MILES

Prepared in the Office of: DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610 2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: LETTING DATE: NOVEMBER 18, 2025 Sara Sherman, PE PROJECT ENGINEER

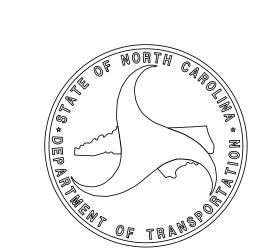
PROJECT DESIGN ENGINEER Sara Sherman, PE NCDOT CONTACT

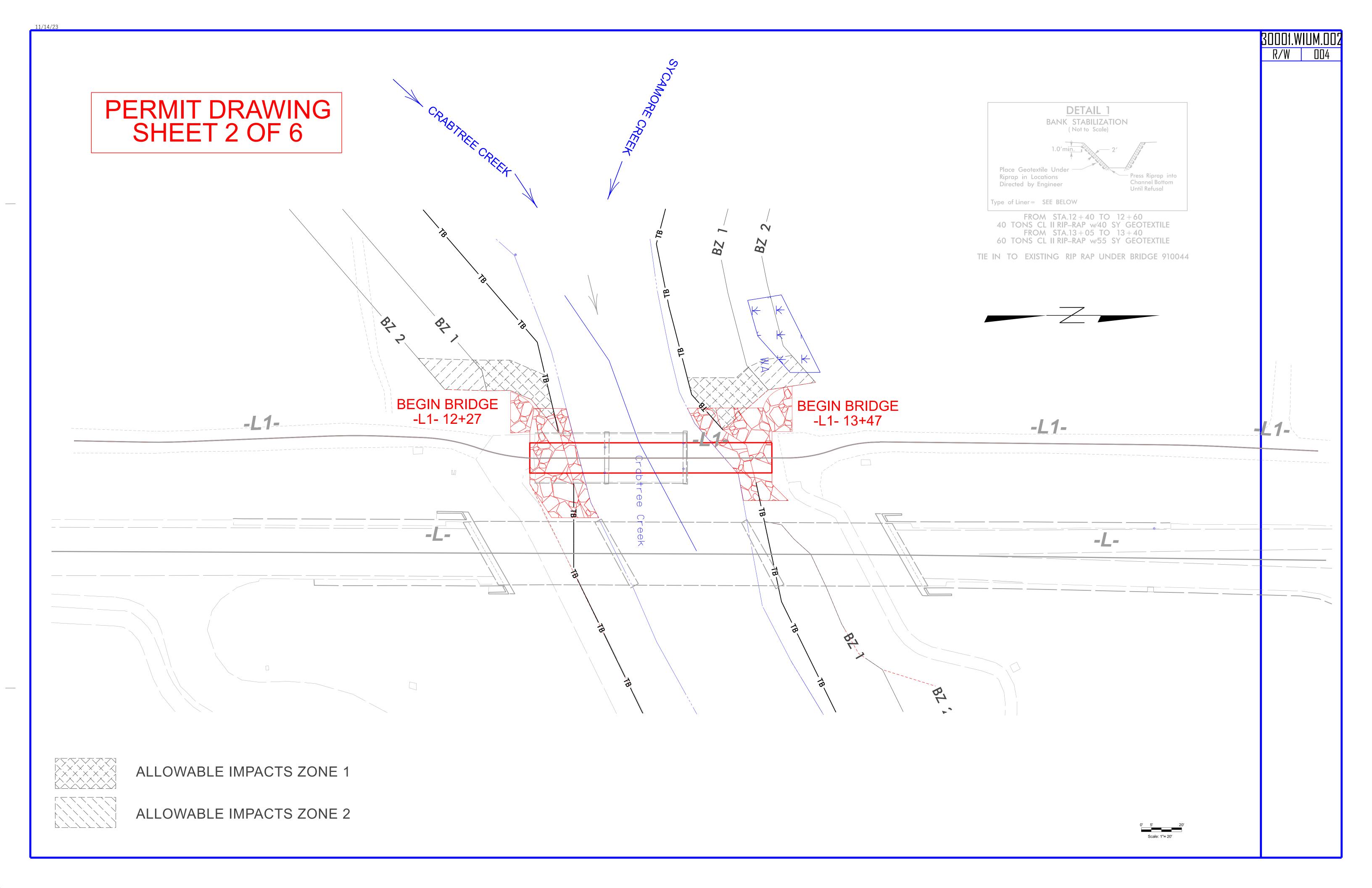
HYDRAULICS ENGINEER

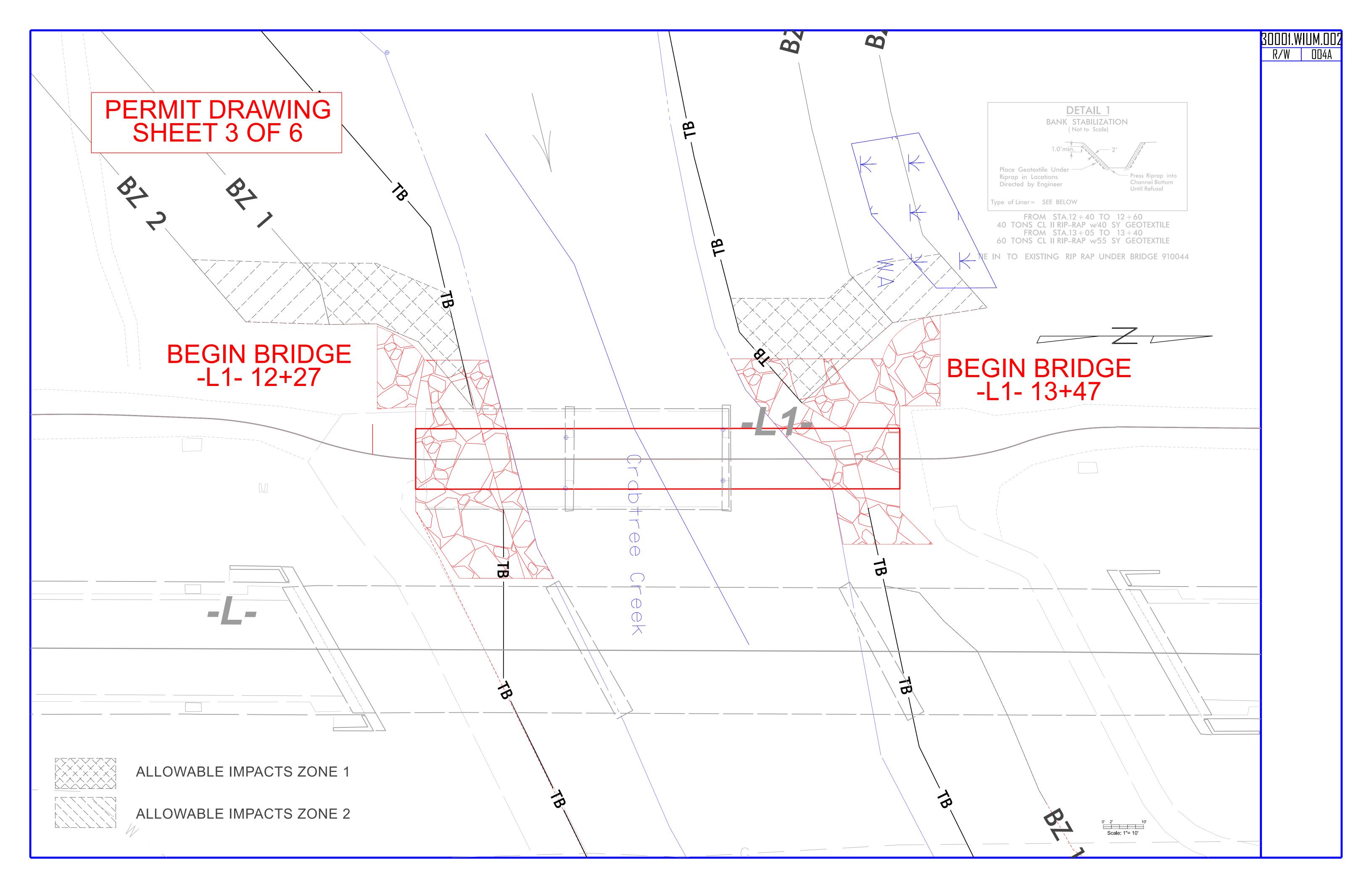
SIGNATURE:

SIGNATURE:

ROADWAY DESIGN ENGINEER







PERMIT DRAWING SHEET 5 OF 6

				RIPARIAN BUFFER IMPACTS SUMMARY IMPACTS								BUFFER		
			TYPE			ALLOWABLE			MITIGABLE				REPLACEMENT	
Site No.	Station (From/To)	Structure Size / Type	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1	ZONE 2	
1	11+69 to 12+41	Construction Access		Х		559	376	935	, ,	, ,	,	,		
1	13+06 to 13+80	Construction Access		Х		645	345	990						
													<u> </u>	
													 	
TOTAL	S*:					1204	721	1925	0	0	0	0	_	

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
5/14/2025
Wake

30001.WIUM.002

SHEET 5 OF

Revised 2018 Feb

PERMIT DRAWING SHEET 6 OF 6

	WETLANDS IN BUFFER IMPACTS SUMMARY									
				ANDS IN						
SITE				FERS						
NO.	STATION (FROM/TO)		ZONE 1 (ft ²)	ZONE 2 (ft ²)						
1	13+50, 49' LT to 13+78, 40' LT		. ,	65						
TOTAL:			0	65						
TOTAL.			U	03						
					NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 5/14/2025 Wake					
Revised 2018 Fe	eb				30001.WIUM.002 SHEET 6 OF 6					

Archaeology



ER 96-9164

Other #s -ER 98-8120 ER 98-9430

North Carolina Department of Cultural Resources

James B. Hunt Jr., Governor Betty Ray McCain, Secretary

Division of Archives and History Jeffrey J. Crow, Director

July 15, 1998

Nicholas L. Graf Division Administrator Federal Highway Administration Department of Transportation 310 New Bern Avenue Raleigh, N.C. 27601-1442

Re:

Bridge 44 over Crabtree Creek and Bridge 45 over Turkey Creek on SR 1649, Wake County, Federal Aid Project BRZ-1649(1), State Project 8.2505201, TIP B-3259, ER 98-9430

Dear Mr. Graf:

We have received the Categorical Exclusion (CE) for the above project from the North Carolina Department of Transportation by their letter of June 26, 1998. We believe the CE adequately addresses our concerns for historic resources.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763.

Sincerely,

David Brook

Deputy State Historic Preservation Officer

DB:slw

cc:

W. D. Gilmore

B. Church

T. Padgett

bc: (File)

Brown/Bevin Claggett/Hall County

RF



North Carolina Department of Cultural Resources

James B. Hunt Jr., Governor Betty Ray McCain, Secretary

Division of Archives and History Jeffrey J. Crow, Director

January 7, 1998

Nicholas L. Graf, PE Division Administrator Federal Highway Administration 310 New Bern Avenue, Suite 410 Raleigh, NC 27601

Re:

Archaeological Survey Report, Replacement of Bridge 44 over Crabtree Creek and Bridge 45 over Turkey Creek on SR 1649 (Ebenezer Church Road), Wake County, TIP B-3259, State Project 8.2405201, Federal-aid BRZ-1649(1), ER96-9164 & ER98-8120

Dear Mr. Graf:

Thank you for your letter of December 1, 1997, transmitting the archaeological survey report by Deborah Joy and Megan O'Connell of the NC Department of Transportation concerning the above project.

For purposes of compliance with Section 106 of the National Historic Preservation Act, we concur that the following property is not eligible for the National Register of Historic Places under Criterion D:

31WA1400

This prehistoric site has been destroyed by past excavation of a large borrow pit and retains no integrity.

Until additional testing is conducted at prehistoric site 31WA1399, we are unable to make a determination concerning its National Register eligibility. If Alternate 2 is selected for implementation, 31WA1399 will be affected and test excavations sufficient to determine its eligibility should be conducted as soon as possible.

In general the report meets our guidelines and those of the Secretary of the Interior. Specific concerns and/or corrections which need to be addressed are attached.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.



Nicholas L. Graf January 7, 1998, Page 2

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763.

Sincerely,

David Brook

Deputy State Historic Preservation Officer

DB:slw

cc:

Frank Vick, NCDOT Tom Padgett, NCDOT Deborah Joy, NCDOT Megan O'Connell, NCDOT

bc:

Eile

Claggett/Hall County

RF

Specific Comments, Archaeological Survey Report Replacement of Bridge 44 and Bridge 45, Wake County ER 96-9164 and ER 98-8120

- 1. Page 5, 2nd full paragraph: The following reports listed as "non-compliance" were conducted in compliance with Section 106 of the National Historic Preservation Act: Cantley 1992, Claggett & Cable 1982, Cultural Resource Group 1990, Eastman and Lautzenheiser 1992, Gossett and Gossett 1975, McCormick 1970, Gunn et al 1997a-b, and Little-Stokes 1979. While most of these reports are not the result of typical archaeological surveys, all of these investigations were conducted as part of the compliance process. While we do not recommend revision of this report, we offer this comment for future reference.
- 2. The archaeological site form for 31WA1400 is incomplete. Only pages 1 and 3 were submitted, along with a location map. Please forward a completed site form for this site as soon as possible.

Federal Aid #	BRZ 1649 (1) TIP # B. 3259 Co	unty WAKE				
	CONCURRENCE FORM					
	FOR					
Brief Project	ASSESSMENT OF EFFECTS					
REPLACE	BRIDGES NO. 44 AND 45 ON SR 1649 OVER TURK	EN CREEK				
1-1000	Prince of the the prince of the total page inter					
	A					
On July	24 1997 , representatives of the					
	North Carolina Department of Transportation (NCDOT)				
	Federal Highway Administration (FHWA)					
	North Carolina State Historic Preservation Office (SHP	0)				
	Other					
reviewed the	subject project and agreed					
	there are no effects on the National Register-listed prop	erty within the project's				
	area of potential effect and listed on the reverse.					
	there are no effects on the National Register-eligible pro	parties located within the				
	project's area of potential effect and listed on the revers	-				
	project burea or potential effect and noted on the revers					
	there is an effect on the National Register-listed propert	y/properties within the				
	project's area of potential effect. The property-properties and the effect(s) are					
	listed on the reverse.					
-	there is an effect on the National Register-eligible property/properties within the					
	project's area of potential effect. The property/properties and effect(s) are listed					
	on the reverse.					
Signed:						
Signed.						
5		-				
Clan C	~~//·h_	Jun 24 1997				
Representati	yel NCDOT, Historic Architectural Resources Section	Date				
1111 -	0 10/	2) (22				
wery ?	the Division Administrator, or other Federal Agency	8/2/97				
FHW X, for 1	the Division Administrator, or other Federal Agency	Date				
\cup						
1	110	7/24/97				
Delua	h Dluru	12111				
Representati	ve/SHPO	Date				
		G (
1/1 /	21.) Like Dedie	8/1/1/47				
State Histori	ic Preservation Officer	Date				

(over)

Federal	Aid	#	BRZ. 1649	(1))
10				~~	_

TIP # B. 325

County WAKE

Properties within area of potential effect for which there is no effect. Indicate if property is National Register-listed (NR) or determined eligible (DE).

CRABTREE CREEK RECREATIONAL DEMONSTRATION AREA (NR)

Properties within area of potential effect for which there is an effect. Indicate property status (NR or DE) and describe effect.

Reason(s) why effect is not adverse (if applicable).

Initialed:

NCDOT CO

FHWA W

SHPO



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

James B. Hunt Jr. Governor

DIVISION OF HIGHWAYS P.O. BOX 25201, RALEIGH, N.C. 27611-5201 Garland B. Garrett Jr.
Secretary

OCTISTO S

October 11, 1996

MEMO TO:

Project File

FROM:

Bill Goodwin, P. E. BG

Project Planning Engineer

SUBJECT:

Scoping Meeting for Replacement of Bridge No. 44 on SR 1649 over

Crabtree Creek and Bridge No. 45 on SR 1649 over Turkey Creek, Wake

County, Federal Aid Project No. BRZ-1649(1), State Project No.

8.2405201, TIP No. B-3259

A scoping meeting for the subject project was held on July 17, 1996. The following persons were in attendance:

Sue Regier

Edward Farr Cherri Smith

Darryl McBane David Cox

Eric Galamb

Debbie Bevin

Don Sellers

Sid Autry

Roy Girolami Ray Moore

Charles Mullen Eric Rysdon

Ray McIntyre Lanette Cook Jerry Snead

Tony Houser Jason Moore

Bill Goodwin

Div. of Parks and Rec.

Div. of Parks and Rec. Div. of Parks and Rec.

Div. of Parks and Rec.

NC WRC

DEM - Water Quality

SHPO

Right of Way

Location and Surveys

Structure Design Structure Design

Traffic Control
Traffic Control

Program Development Program Development

Hydraulics Roadway Design

Roadway Design

Planning and Environmental

The following is a summary of comments made at the scoping meeting and through correspondence prior to the meeting.

The design speed will be 100 km/h (60 mph). Utility conflicts will be low for this project. There is overhead electrical service along the east side of SR 1649, with overhead telephone service lines attached to the same poles. There is a 36 inch sewer line along the east side of SR 1649 between the two bridges.

Mr. Eric Galamb of DEM indicated that both creeks are classified as Class B, Nutrient Sensitive. Implementation of High Quality Water - Soil and Erosion Control Measures was suggested. He also asked that the new bridges not have weepholes in the deck. If an on-site detour is used, the detour fill should be removed after project completion and the area planted with native tree species.

Mr. David Cox of NC WRC indicated that both creeks contain a number of mussel species, and asked that High Quality Water - Soil and Erosion Control Measures be implemented.

Ms. Debbie Bevin of the State Historic Preservation Office (SHPO) indicated that there are no known architectural or archaeological sites in the immediate project area. No previously unknown sites are likely to be found therefore, no architectural or archaeological survey will be required.

Mr. Jerry Snead of the Hydraulics Unit indicated that a new culvert will be required to replace existing Bridge No. 45 over Turkey Creek. The new culvert should be a triple barreled reinforced concrete box culvert; with each barrel measuring 3.4 meters (11 feet) by 2.4 meters (8 feet). Bridge No. 44, over Crabtree Creek, should be replaced with a new bridge approximately 44.2 meters (145 feet) in length. The new bridge will be 9.0 meters (30 feet) wide, including two 3.6 meter (12 foot) travel lanes and a 0.9 meter (1.0 foot) offset on each side. The approach roadway and both structures could be placed at approximately the same elevation as the existing roadway from a hydraulic standpoint.

All of the property along the western side of SR 1649, in the project area, is part of Umstead State Park. Impacts to the park need to be avoided. Alternate two described below is intended to completely avoid the park property. Ms. Sue Regier of the DEHNR-Division of Parks and Recreation expressed concerns about hikers and bicyclists attempting to cross the creeks on the roadway bridges and horseback riders walking their horses through the creeks. She indicated at the meeting that the park might be interested in taking possession of both bridges if alternate two is chosen. Ms. Cherri Smith confirmed, by letter after the meeting, that the Division of Parks and Recreation is interested in acquiring both existing bridges and the right-of-way between to improve the trail system around SR 1649.

SR 1649 has a posted speed limit of 45 mph; therefore, the design speed will be 80 km/h (50 mph). The roadway approaches will have two 3.6 meter (12 ft) travel lanes and a shoulder width of at least 2.4 meters (8 ft). The shoulder will be 0.9 meters (3 feet) wider where guardrail is warranted. SR 1649 is classified as an Urban Local Route in the Statewide Functional Classification System.

The Wake County School Bus Transportation Coordinator has indicated that 4 busses use this route twice each per day. Detouring traffic off-site would create some inconvenience, but would not cause major problems in school bus operations.

The Traffic Forecasting Unit has indicated that near Bridge No. 44 and Bridge No. 45, SR 1649 carries 1800 vehicles per day at present [1995]. This figure is expected to increase to 4000 vehicles per day by the year 2020. These traffic figures include 2% dual tired vehicles [DUAL], and 1% truck-tractor semi-trailers [TTST]. The design hourly volume [DHV] is 12%.

The Division Engineer has indicated that an on-site detour or realignment of SR 1649 would be preferred.

Two alternates will be evaluated for replacing Bridge No. 44 over Crabtree Creek and Bridge No. 45 over Turkey Creek.

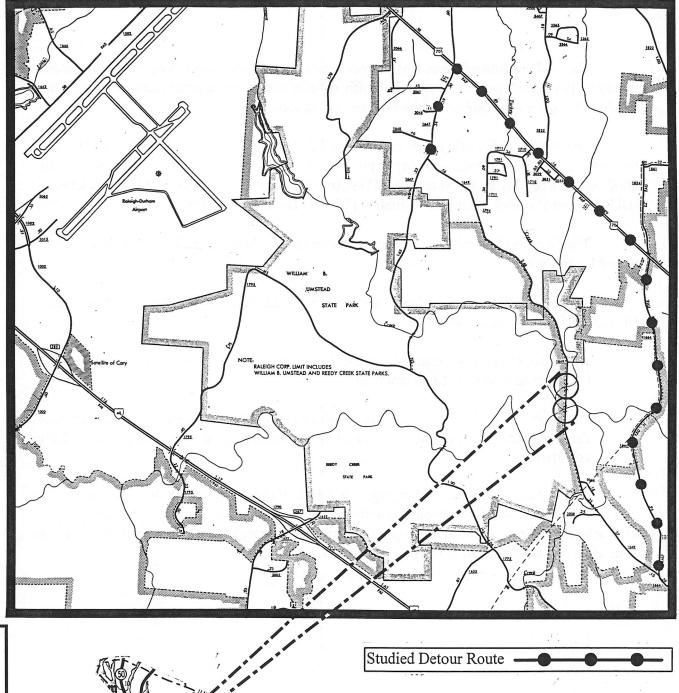
Alternate One - The existing bridge will be removed and replaced in-place. Traffic will be detoured along existing local roads.

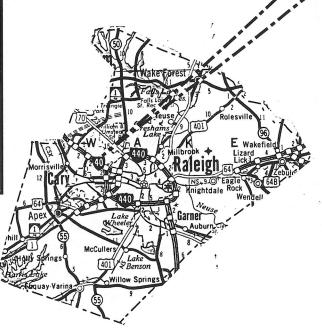
Alternate Two - The existing bridges will be removed and replaced on new alignment to the east of the existing bridges. Traffic will be maintained on the existing bridges during construction.

The TIP cost estimate for this project is \$ 660,000 including, \$ 600,000 for construction and \$ 60,000 for right of way acquisition. Preliminary construction cost estimates are not available at this time. The current project schedule calls for right of way acquisition to begin in June 1998 and construction to begin in June 1999.

BG/

cc: Scoping Meeting Participants







North Carolina Department of Transportation

Division of Highways

Planning & Environmental Branch

Wake County Replace Bridges No. 44 and No. 45 on SR 1649 Over Crabtree Creek and Turkey Creek B-3259

Figure One





North Carolina Department of Cultural Resources

James B. Hunt Jr., Governor
Betty Ray McCain, Secretary
August 9, 1996

Division of Archives and History Jeffrey J. Crow, Director

Nicholas L. Graf Division Administrator Federal Highway Administration Department of Transportation 310 New Bern Avenue Raleigh, N.C. 27601-1442

Re:

Bridges 44 and 45 on SR 1649 over Turkey Creek, Wake County, B-3259, Federal Aid Project BRZ-1649(1), State Project 8.2405201, ER 96-9164

Dear Mr. Graf:

On July 17, 1996, Debbie Bevin of our staff met with North Carolina Department of Transportation (NCDOT) staff for a meeting of the minds concerning the above project. We reported our available information on historic architectural and archaeological surveys and resources along with our recommendations. NCDOT provided project area photographs and aerial photographs at the meeting.

Based upon our review of the photographs and the information discussed at the meeting, we offer our preliminary comments regarding this project.

In terms of historic architectural resources, Umstead Park is located within the project's area of potential effect and is listed in the National Register of Historic Places. We are aware of no other historic architectural resources in the project area and recommend no additional survey for this project.

If the proposed bridge projects involve a replacement or detour structure to the east that will involve areas containing Congaree soils, these areas should be surveyed by an archaeologist. if the entire road is to be relocated to the east, we recommend that plans be forwarded for our review.

Having provided this information, we look forward to receipt of either a Categorical Exclusion or Environmental Assessment which indicates how NCDOT addressed our comments.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act of 1966 and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106, codified at 36 CFR Part 800.



Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763.

Sincerely,

David Brook

Deputy State Historic Preservation Officer

DB:slw

cc:

H. F. Vick

C. Bruton

T. Padgett

Wake County Historic Preservation Commission

bc: File

Brown/Bevin Claggett/Hall

County

Wake B3259 Br # 44 + 45 on SR 1649 over Turkey Creek

Rate (61 c.)
7/17/96

- · Bill Goodwin, project engineer
- · Umstead Park (NR) adjacent to project. No other historic structures. No survey recommended Archaeology needs more info. before commenting.
- · Br44 1962 Sufficiency 30 Br45 - 1955 - Sufficiency 44
 - · 1800 VPD → 4000 VPD by 2020
- Alternates Replace in place w/ on-site detour to east (away from Umstead). Also consider off-site detour using 70 + Duvaleigh Road. Maybe relocate whole road to east rather than build 2 detour structures. Leave old road + bridges for use by Umstead?
- · Div. of Pavks + Recreation wants provision for bicycles/horses/pedestrians. Also maybe passage under?



July 1990

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

James B. Hunt Jr. Governor

DIVISION OF HIGHWAYS P.O. BOX 25201, RALEIGH, N.C. 27611-5201 Garland B. Garrett Jr.
Secretary

June 13, 1996

CR96-9164 du 7/2 DXB JS

MEMORANDUM TO:

Ms. Renee Gledhill-Earley Dept. of Cultural Resources

FROM:

H. Franklin Vick, P. E., Manager Planning and Environmental Branch

SUBJECT:

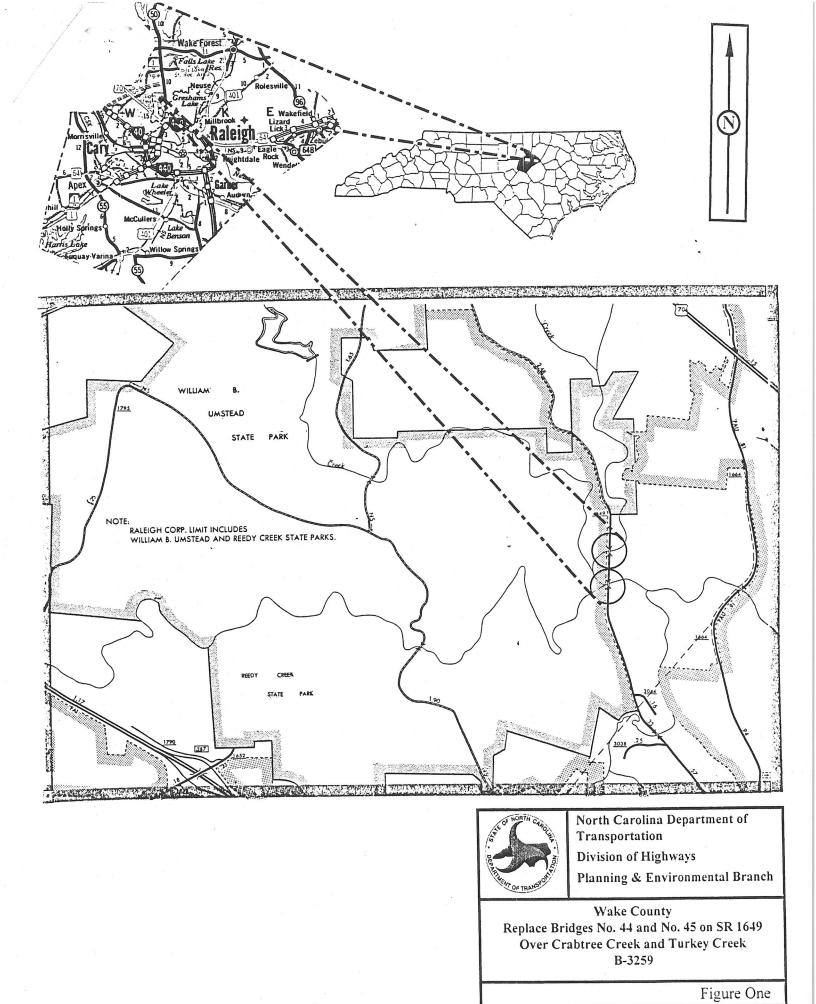
Review of Scoping Sheets for Wake County, SR 1649, Replacement of Bridge No. 45 over Turkey Creek, State Project 8.2405201, Federal Aid Project BRZ-1649(1), TIP Project B-3259

Attached for your review and comments are the scoping sheets for the subject project (See attached map for project location). The purpose of these sheets and the related review procedure is to have an early "meeting of the minds" as to the scope of work that should be performed and thereby enable us to better implement the project. A scoping meeting for this project is scheduled for July 17, 1996 at 2:30 pm in the Planning and Environmental Branch Conference Room (Room 434). You may provide us with your comments at the meeting or mail them to us prior to that date.

Thank you for your assistance in this part of our planning process. If there are any questions about the meeting or the scoping sheets, please call Bill Goodwin, Project Planning Engineer, at 733-7844, Ext. 238.

WTG/plr

Attachment



BRIDGE PROJECT SCOPING SHEET

6/13/96

TIP PROJECT: <u>B-3259</u>	DIVISION: <u>Five</u>
F. A. PROJECT: <u>BRZ-1649(1)</u>	COUNTY: Wake
STATE PROJECT: <u>8.2405201</u>	ROUTE: SR 1649
DESCRIPTION: Replace Bridge No. 44 on And Bridge No. 45 on SR	SR 1649 over Crabtree Creek 1649 over Turkey Creek
PROJECT PURPOSE:replace obsolete bri	
PROJECT U.S.G.S. QUAD SHEET(S): Rale	
ROADWAY CLASSIFICATION: Rural Local	
TIP CONSTRUCTION COSTTIP RIGHT OF WAY COSTPRIOR YEARS COST	0,000
TIP TOTAL COST	\$ 660,000
TRAFFIC: CURRENT VPD; TTST %	DESIGN YEAR (2020) VPD DUAL %
EXISTING ROADWAY TYPICAL SECTION:	Two lane shoulder section, 19 feet of pavement, grassed shoulders.
ridge. No. 44 EXISTING STRUCTURE: LENGTH 35.4 ME 116 FER	
ridge No. 45 EXISTING STRUCTURE:	
LENGTH <u>21.6</u> ME _ <u>71</u> FEE	TERS WIDTH <u>6.2</u> METERS <u>20.2</u> FEET
COMMENTS:	

NEPA/SEPA Document

NCDOT MINIMUM CRITERIA DETERMINATION CHECKLIST

The following questions provide direction in determining when the Department is required to prepare <u>SEPA</u> environmental documents for state-funded construction and maintenance activities. Answer questions for Parts A through C by checking either "Yes" or "No". Complete Part D of the checklist when NCDOT's <u>Minimum Criteria Rule</u> categories #8, 12(i) or #15 are used.

TIP Project No: n/a

State Project No.: 30001.WIUM.002

Project Location: William Umstead State Park/Ebenezer Church Rd, Wake County, Division 5.

See Vicinity Map.

Project Description:

The purpose of this project is to replace the old Ebenezer Church Rd bridge #911473 that was being used by Umstead State Park as a greenway bridge. Repairs were attempted on the bridge in 2024 but it collapsed during removal. A new bridge is being replaced-in-place for pedestrian use. Only State Park vehicles will be driving across the bridge.

This project involves the removal and replacement of bridge #911473 over Crabtree Creek. This is a greenway bridge located on South Turkey Creek Trail in Umstead State Park. This bridge is a replace in kind and will be extended 2' on either end. The roadway grade and interior bents will be retained. The bridge will have 2'6" end bent caps with 1.5:1 rip-rap sloping abutments. Both banks will be stabilized with class-II rip-rap.

Existing utility lines will be raised in the existing alignment south of the bridge to allow construction access to the site. Up to 5 new poles will be installed in the existing alignment.

Anticipated Permit or Consultation Requirements:

The project is located within the Neuse River basin and requires a buffer authorization from NC DWR. The buffer authorization is for surfacewater impacts as well as impacts associated with temporary construction access. A pre-construction notification (PCN) will be submitted for the buffer authorization. The work is anticipated to be covered under a Nationwide Permit (NWP) 3 with a 401 General Certification (GC) 7466.

Special Project Information:

The bridge is located within the right of way (ROW) of Ebenezer Church Road over Crabtree Creek. This portion of ROW was intended to be transferred to NC Department of Natural & Cultural Resources (DNCR), Division of Parks & Recreation (DPR)/State Parks (SP) in 2006 after the new Ebenezer Church Road bridge was constructed to the east under project # B-3259. The purpose of the land transfer was to allow DPR to utilize the old structure as a pedestrian bridge for the South Turkey Creek Trail at Umstead State Park. However, an agreement specifying the land transfer and maintenance of the bridge was never finalized and the land was never transferred to DPR.

Upon completion, a maintenance agreement will be signed between NCDOT and DPR for NCDOT to continue maintenance inspections of the bridge. The bridge will remain within NCDOT ROW with an interagency agreement for Umstead State Park to continue using the

05/14/25 1 of 7

bridge as part of their trail system and to allow trail maintenance activities by park staff to continue inside NCDOT ROW. NCDOT is coordinating with DPR throughout this process.

Umstead State Park is listed on the National Register of Historic Places (NRHP). The bridge was originally surveyed by NCDOT Cultural Resources Unit and State Historic Preservation Office (SHPO) in 1998 (see project site). This was done under TIP # B-3259 and included the replacement of two bridges on Ebenezer Church Road that were relocated to the east of where the remaining bridge now stands. The 1998 surveys indicated that the current location of the bridge does not have any archeological or historic architecture concerns.

NCDOT conducted field surveys for the presence of streams, wetlands, and rare and threatened species between September 2024 and May 2025. It was determined that the project will not have adverse effects to threatened or endangered species. The following species are known to exist within the project area:

ESA federally protected species within the Study Area. (IPaC: May 6, 2025)

Scientific Name	Common Name	Federal Status	Habitat Present	Biological Conclusion
Perimyotis subflavus	Tricolored bat	PE	Yes	MA-LAA
Picoides borealis	Red-cockaded woodpecker	T	No	No Effect
Necturus lewisi	Neuse River waterdog	T	Yes	MA-LAA
Noturus furiosus	Carolina madtom	Е	Yes	MA-LAA
Fusconaia masoni	Atlantic pigtoe	T	Yes	MA-LAA
Danaus plexippus	Monarch butterfly	PT	N/A	Not Required
Rhus michauxii	Michaux's sumac	E	Yes	No Effect

IPaC - Information for Planning and Consultation E - Endangered; P - Proposed; T - Threatened

MA-NLAA - May Affect, Not Likely to Adversely Affect

MA-LAA - May Affect, Likely to Adversely Affect

The US Fish and Wildlife Service has issued a programmatic conference opinion (PCO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the tricolored bat (TCB) (Perimyotis subflavus) in eastern North Carolina. The PCO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. NCDOT, FHWA, and USACE have agreed to conservation measures which will avoid/minimize take to TCBs. These conservation measures apply to all counties in Divisions 1-8. The programmatic determination for TCB for the NCDOT program is May Affect, Likely to Adversely Affect. Once the TCB is officially listed, the PCO will become the programmatic biological opinion (PBO) by formal request from FHWA and USACE. The PBO will ensure compliance with Section 7 of the Endangered Species Act for approximately five years (effective through December 31, 2028) for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Wake County, where the William Umstead State Park project is located.

Section 7 compliance for the Atlantic pigtoe, Neuse River waterdog, and Carolina madtom will be met through the Programmatic Biological Opinion(s) (PBO) issued by the U.S. Fish & Wildlife Service (USFWS). The use of the PBOs indicates the following biological conclusions: Atlantic pigtoe: May Affect, Likely to Adversely Affect; Neuse River waterdog: May Affect, Likely to Adversely Affect; Carolina madtom: May Affect, Likely to Adversely Affect. The

05/14/25 2 of 7

Department will adhere to all PBO project-specific requirements as well as all monitoring and reporting requirements. Payments are made quarterly to the NC Nongame Aquatic Species Fund by NCDOT.

The Monarch Butterfly was proposed for federal listing in December 2024. However, no restrictions will take effect until the proposal is finalized, which is expected in late 2025 or early 2026. Until then, proposed species do not receive protection under the Endangered Species Act (ESA), except that federal action agencies must ensure their actions do not jeopardize the species' existence. These agencies may also consult with the U.S. Fish and Wildlife Service (USFWS) to obtain a conference opinion, which will automatically convert to a biological opinion upon the final listing decision.

Field surveys for Michaux's sumac were completed on September 19, 2024, within suitable habitat, with no target plants observed. A review of NHP records on April 19, 2025, indicates one known occurrence of Neuse River waterdog (E.O. # 12592 – Historic) and Atlantic pigtoe (E.O. # 14599) within the project study area. Both element occurrences also extended to within one mile of the project. One known occurrence of Tricolored bat (E.O. # 36282) is located within 1.0 mile of the project study area.

Water Resources

One stream (Crabtree Creek) and one wetland were identified within the project study area.

Status of Streams in the Study Area

Stream Name	NCDWR Index Number	Best Usage Classification	Length (ft)	Classification	River Basin Buffer
Crabtree Creek	27-33-(3.5)	B;NSW	135	Perennial	Subject

Characteristics of Wetlands in the Study Area

Map ID	NCWAM Classification	Forested	NCWAM Rating	Hydrologic Classification	Area (ac.) in Study Area
WA	Floodplain Pool	No	High	Riparian	0.02

The North Carolina 2022 Final 303(d) list of impaired waters identifies Crabtree Creek as an impaired water due to PCB Fish Tissue Advisory present in, or located within 1.0 mile downstream of, the study area.

05/14/25 3 of 7

PART A: MINIMUM CRITERIA

Item	1 to be completed by the Project Manager.	YES	NO
1.	Is the proposed project listed as a type and class of activity allowed under the Minimum Criteria Rule in which environmental documentation is not required?		
	e answer to number 1 is "no", then the project <u>does not</u> qualify as a mum criteria project. A state Environmental Assessment is required.		
If ye	s, under which category? 29		
If eit	her category #8, #12(i) or #15 is used complete Part D of this checklist.		
PAR	T B: MINIMUM CRITERIA EXCEPTIONS		
Item	s 2 – 4 to be completed by the Project Manager.	YES	NO
2.	Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse air quality impacts?		
3.	Will the proposed activity have secondary impacts or cumulative impacts that may result in a significant adverse impact_to human health or the environment?		
4.	Is the proposed activity of such an unusual nature or does the proposed activity have such widespread implications, that an uncommon concern for its environmental effects has been expressed to the Department?		
Item	5-8 to be completed by Division Environmental Officer.		
5.	Does the proposed activity have a significant adverse effect on wetlands; surface waters such as rivers, streams, and estuaries; parklands; prime or unique agricultural lands; or areas of recognized scenic, recreational, archaeological, or historical value?		
6.	Will the proposed activity endanger the existence of a species on the Department of Interior's threatened and endangered species list?		
7.	Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse water quality or ground water impacts?		
8.	Is the proposed activity expected to have a significant adverse effect on long-term recreational benefits or shellfish, finfish, wildlife, or their natural habitats?		

If any questions 2 through 8 are answered "yes", the proposed project may not qualify as a Minimum Criteria project. A state Environmental Assessment (EA) may be required. For assistance, contact the Environmental Policy Unit at (919) 707–6253 or EPU@ncdot.gov.

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PART C: COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

	9- 12 to be completed by Division Environmental Officer. Is a federally protected threatened or endangered species, or its habitat, likely to be impacted by the proposed action?	YES	NC ×
10.	Does the action require the placement of temporary or permanent fill in waters of the United States?		
11.	Does the project require the placement of a significant amount of fill in high quality or relatively rare wetland ecosystems, such as mountain bogs or pine savannahs?		
12.	Is the proposed action located in an Area of Environmental Concern, as defined in the coastal Area Management Act?		
Items	13 – 15 to be completed by the Project Manager.		
13.	Does the project require stream relocation or channel changes?		\boxtimes
Cultu	ral Resources		
14.	Will the project have an "effect" on a property or site listed on the National Register of Historic Places?		
15.	Will the proposed action require acquisition of additional right of way from publicly owned parkland or recreational areas?		\boxtimes

Questions in Part "C" are designed to assist the Project Manager and the Division Environmental Officer in determining whether a permit or consultation with a state or federal resource agency may be required. If any questions in Part "C" are answered "yes", follow the appropriate permitting procedures prior to beginning project construction.

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PART D:(To be completed when either category #8, 12(i) or #15 of the rules are used.)

Items 16-22 to be completed by Division Environmental Officer. 16. Project length: 17. Right of Way width: Project completion date: 18. Total acres of newly disturbed ground surface: 20. Total acres of wetland impacts: Total linear feet of stream impacts: 21. 22. Project purpose: DocuSigned by: Sara Sherman 05/14/2025 Reviewed by: Date: Project Manager Morgan Weatherford 05/14/2025 Approved by: Date:

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NCDOT PROJECT COMMITMENTS

STIP Project No. n/a
Replace bridge #911473 (Old Ebenezer Church Rd bridge) for pedestrian use at William Umstead
State Park
Wake County
Federal Aid Project No. n/a
WBS Element 30001.WIUM.002

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

No commitments