

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

February 10, 2020

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

ATTN: Ms. Nicholle Braspennickx NCDOT Coordinator

Subject: Application for Section 404 Nationwide Permit 13 and 33, and 401 Water Quality Certification for the proposed replacement of Bridge No. 166 on SR 1601 (Coolbrook Road) over Rocky Creek in Iredell County, Division 12, TIP No. BR-0115. Debit \$240 from WBS 48824.1.1.

Dear Madam:

NCDOT proposes to replace structurally deficient Bridge No. 166 (superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration [FHWA] standards) on S.R. 1595 (Coolbrook Road) over Rocky Creek in Iredell County. The existing bridge is approaching the end of its useful life. The existing bridge also has a posted weight limit, and the proposed project has been designed to meet the legal load rating.

The project proposes replacing the existing two-lane bridge with an approximately 30-foot wide structure with two 10-foot travel lanes with 3-foot 11-inch paved shoulders. The proposed bridge would be approximately 138 feet in length and the proposed right of way varies from 60 feet to 85 feet. The total length of the project is approximately 700 feet. The proposed bridge will not be posted and will be designed to meet the legal load rating. This bridge replacement will be constructed in-place using an off-site detour.

There will be a total of 104 linear feet (lf) of bank stabilization impacts. There will be a total of 115 lf (<0.01 acre) of temporary impacts from impervious dikes located on both the left and right banks of Rocky Creek; however, all but 11 lf are within the bank stabilization impacts. There will be 84 lf (0.03 ac) of temporary impacts and from temporary work pads/causeways, if needed, all of which are within the bank stabilization/impervious dike impacts.

There will be no utility impacts for this project.

Avoidance and Minimization

NCDOT has avoided permanent stream impacts to Rocky Creek (other than bank stabilization) by spanning the creek with the bridge. The only permanent stream impacts will be those for bank stabilization under the new bridge.

Mitigation

NCDOT does not propose mitigation for the 104 linear feet of bank stabilization impacts, as bank stabilization does not require fill in the streambed and therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation.

Please see enclosed copies of the Pre-Construction Notification (PCN), stormwater management plan, permit drawings and design plans for the above-referenced project.

A Categorical Exclusion was completed in July 2019 and distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of July 21, 2020 and a review date of June 2, 2020.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: http://connect.ncdot.gov/resources/Environmental. If you have any questions or need additional information, please contact Bill Barrett at wabarrett@ncdot.gov or (919) 707-6103.

Sincerely,

Michael The

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

Cc: NCDOT Permit Application Standard Distribution List



Pre-Construction Notification (PCN) Form

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

September 29, 2018 Ver 3

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

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

Below is a link to the online help file.

https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf

A. Processing Information

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

Iredell

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-0115

WBS #*

48824.1.1 (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)

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

▼ Nationwide Permit (NWP)

Regional General Permit (RGP)

T Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

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

○ Yes ⊙ No

Nationwide Permit (NWP) Number:	13 - Bank Stabilization
Nationwide Permit (NWP) Number:	33 - Temporary Construction
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	401 Water Quality Certification - Express
Non-404 Jurisdictional General Permit	Riparian Buffer Authorization
Individual Permit	
1e. Is this notification solely for the record because writte	n approval is not required?
	*
For the record only for DWR 401 Certification:	⊙ Yes ○ No
For the record only for Corps Permit:	C Yes © No
1f. Is this an after-the-fact permit application?*	

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 O Yes No Acceptance Letter Attachment Click the upload button or drag and drop files here to attach document FILE TYPE MUST BEPDF 1h. Is the project located in any of NC's twenty coastal counties?* O Yes No No 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

No

B. Applicant Information

1a. Who is the Primary Contact?* NCDOT

1d. Who is applying for the permit?*

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

1b. Primary Contact Email:*

wabarrett@ncdot.gov

Owner (Check all that apply)

○ Yes ⊙ No

O Yes

2. Owner Information 2a. Name(s) on recorded deed:* NCDOT 2b. Deed book and page no.: 2c. Responsible party: (for Corporations) 2d. Address* eet Addre

Street Address	
1598 Mail Service Center	
Address Line 2	
City	State / Province / Region
Raleigh	NC
Postal / Zip Code	Country
27699	USA
2e. Telephone Number:*	
(xxx)xxx-xxxx	

(919)707-6103 2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address:*

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project:*

Replacement of Bridge No. 480166 on SR 1595 (Coolbrook Road) over Rocky Creek

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:* Union Grove

2. Project Identification

1c. Primary Contact Phone:* (xxx)xxx-xxxx (919)707-6103

Applicant (other than owner)

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2a. Property Identification Number: (tax PN or parcel ID)	2b. Property size : (in acres)
2c. Project Address	
Street Address	
Address Line 2	
Oty	State / Province / Region
Postal / Zip Code	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:*	Longitude:*
36.014070	-81.003658
ex: 34.208504	-77.796371

3. Surface Waters

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

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

Surface Water Lookup

С

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

Yadkin-PeeDee

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

030401020104 River Basin Lookup

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: * Undeveloped woods, agriculture land, and some residences.

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

○ Yes ⊙ No ○ Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR) Click the upload button or drag and drop files here to attach document

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR) Click the upload button or drag and drop files here to attach document

File type must be pdf

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

0

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

(intermittent and perennial)

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

The replacement of Bridge No. 480166 is part of the Growing Rural Economy and Agriculture through Transportation and Technology Enhancement or Replacement in North Carolina (GREATTER-NC) Project under the United States Department of Transportation's 2018 Better Utilizing Investments to Leverage Development (BUILD) Grant program. The purpose of the grant and this bridge replacement project is to provide transportation infrastructure to support economic development and improve physical and digital connectivity in rural communities in North Carolina. The posted weight restriction on Bridge No. 480166 prohibits large or heavy vehicles, typically used in transporting agricultural and manufactured products, from using the bridge. Vehicles above the posted weight must detour 7 miles to avoid the bridge. Replacing the existing bridge will eliminate posted weight limits by providing a safe crossing for all legal loads and will make accommodations for broadband installation in order to support economic competitiveness. NCDOT Structures Management Unit records indicate Bridge No. 480166 has a sufficiency rating of 58.87 out of a possible 100. Bridge No. 480166 is considered structurally deficient due to a superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration (FHWA) standards. The bridge is approaching the end of its useful life. The existing bridge also has a posted weight limit and the proposed project has been designed to meet the legal load rating.

* This bridge will serve as a detour route for NCDOT project BR-0114, which proposes the replacement of Bridge No. 480165 on SR 1601 (Branton Road) over Rocky Creek. Since Bridge No. 480165 is currently a posted bridge, it will need to be constructed prior to the BR-0114 bridge replacement.

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

The existing 107', 3 span bridge over Rocky Creek on SR 1595 (Coolbrook Road) is being replaced with 3 span bridge with a span arrangement of 1@30' (21" Cored Slab), 1@70' (24" Cored Slab), and 1@35' (21" Cored Slab). The bridge will have 1.5:1 sloping abutments. The bridge will be superelevated with a 3% slope and with 10' travel lanes with 3'11" to the right and 3'11" to the left shoulders, 27'-10" clear width and 30' OTO width. The existing bridge structure will be removed. Standard road building equipment, such as trucks, dozers, and cranes will be used.

4j. Please upload project drawings for the proposed project. Click the upload button or drag and drop files here to attach document BR-0115_Permit Drawings.pdf 4 6MB File type must be pdf 5. Jurisdictional Determinations 5a. Have the wetlands or streams been delineated on the property or proposed impact areas?* O No • Yes C Unknown Comments: No wetlands in project study area. Only one stream (Rocky Creek). 5b. If the Corps made a jurisdictional determination, what type of determination was made?* ○ Preliminary ○ Approved ⊙ Not Verified ○ Unknown ○ N/A Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated the jurisdictional areas? Name (if known): Jim Mason Three Oaks Engineering Agency/Consultant Company: Other: 5d1. Jurisdictional determination upload Click the upload button or drag and drop files here to attach document File type must be PDF 6. Future Project Plans 6a. Is this a phased project?* ⊙ No O Yes 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. No

D. Proposed Impacts Inventory	\bigcirc
1. Impacts Summary	

Buffers

1a. Where are the impacts associated with your project? (check all that apply):				
Wetlands	Streams-tributaries			
C Open Waters	Pond Construction			

3. Stream Impacts

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

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

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact [*]	3d. S. name *		3f. Type of Jurisdiction *		3h. Impact length [*]
S1	Bank stabilization	Permanent	Bank Stabilization	Rocky Creek	Perennial	Both	45 Average (feet)	104 (linear feet)
S2	Impervious dikes	Temporary	Dewatering	Rocky Creek	Perennial	Both	45 Average (feet)	11 (linear feet)
S3	work pad / causeway	Temporary	Workpad/Causeway	Rocky Creek	Perennial	Both	45 Average (feet)	0 (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:

104

3i. Total temporary stream impacts:

11

3i. Total stream and ditch impacts:

115

3j. Comments:

S2 Comment: Of the 115 linear feet of temporary stream impacts from the Impervious dikes, 104 If are within the streambank impact. As such, 11 If of temporary stream impacts for the Impervious dike are listed.

S3 comment: All of the 84 linear feet of temporary stream impacts from the temporary causeway are within the length of the streambank impacts. As such, 0 If of temporary stream impacts for the temporary causeway are listed.

The temporary work pad / causeway will not cross more than half of the stream (Rocky Creek)

E. Impact Justification and Mitigation

1. Avoidance and Minimization

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

The proposed bridge is 31 feet longer than the existing bridge.

The proposed bridge will span Rocky Creek, with no pilings in the stream.

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

Overall drainage patterns will be maintained. There are roadside ditches that flow towards the bridge on both sides of the project. On the end side of the bridge, a traffic bearing grated drop inlet with double frame and grates (2GI) was placed on the right side of the roadway in the shoulder berm gutter to pick up runoff from the bridge. Class-II rip rap abutment protection on both banks of the stream is also proposed to prevent future erosion and stream migration. Deck drains will be required to meet spread criteria but the drains will not discharge directly above water. Impervious dikes will be used around existing abutments to prevent sediment from entering the stream during the removal of existing bridge and will be dewatered as needed.

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

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

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

O Yes

No

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

NCDOT does not propose mitigation for the 104 linear feet of bank stabilization impacts, as bank stabilization does not require fill in the streambed and therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation.

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

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

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*** 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?

C Yes

No
 No

For a list of options to meet the diffuse flow requirements, click here.

If no, explain why:

not located within a Buffer Basin.

2. Stormwater Management Plan

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

• Yes O No

Comments:

see attached Permit Drawings

G. Supplementary Information

1. Environmental Documentation

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

 C Yes
 O 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)?*

 C Yes
 O No

• Yes 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.)*
• Yes	○ No

NEPA or SEPA Final Approval Letter

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?*

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

NCDOT does not propose mitigation for the 104 linear feet of bank stabilization impacts, as bank stabilization does not require fill in the streambed and therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation.

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 are	ea with federally protected species or habitat?	*
© Yes	© No	
5b. Have you checked with the USFWS co	ncerning Endangered Species Act impacts? *	
Yes	C No	
5c. If yes, indicate the USFWS Field Office	you have contacted.	
Asheville		
5d. Is another Federal agency involved?*	:	
C Yes	⊙ No	C Unknown
5e. Is this a DOT project located within Div	vision's 1-8?*	
⊙Yes ⊙ No		
5f. Will you cut any trees in order to condu	ist the work in waters of the U.S.2*	
 Yes O No 	ict the work in waters of the 0.5.	
	*	
5g. Does this project involve bridge maint ⊙ Yes ○ No	enance or removal?	
5g(1). If yes, have you inspected the bridg Appendix F, pages 3-7.	e for signs of bat use such as staining, guano,	bats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES,
C Yes ⊙ No		
Link to the NLEB SLOPES document: http://saw-	reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPE	S&apps.pdf
If you answered "Yes" to 5g(1), did you dis	scover any signs of bat use? *	
© Yes © No ⊙ Unknown		
*** If yes, please show the location of the I	bridge on the permit drawings/project plans.	
5h. Does this project involve the construc	ction/installation of a wind turbine(s)?**	
C Yes ⊙ No		
5i. Does this project involve (1) blasting, a	and/or (2) other percussive activities that will b	e conducted by machines, such as jackhammers, mechanized pile drivers, etc.?*
⊙ Yes ◯ No		
If yes, please provide details to include ty	pe of percussive activity, purpose, duration, a	nd specific location of this activity on the property.
Click the upload button or drag and drop files here to attach) document	
File must be PDF		
	rmine whether your site would impact Endange	red Species or Designated Critical Habitat? *
IPAC, USFWS website, NCNHP website, and or	n-site pedestrian surveys. ee protected species for Iredell County: bog turtle, n	othern long cared bat (NLER), and dwarf flowprod
As of November 13, 2019, the USEWS lists the heartleaf (DFHL).	se protected species for nedell County, bog tuffie, h	טונופווו וטווק-פמופע טמנ (אבבס), מווע עשמו-ווטשפופע
Bog turtle: does not require a Biological Conclu	usion.	

NLEB: NCDOT has determined that the proposed action does not require separate consultation on the grounds that the proposed action is consistent with the final Section 4(d) rule, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016.

DFHL: Biological Conclusion of No Effect. Habitat is present for dwarf-flowered heartleaf; however, no individuals of this species were identified during surveys conducted at the project site. Additionally, review of NCNHP database indicates no known DFHL occurrences within 1.0 mile of the study area.

236 77KB

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6. Essential Fish Habitat (Corps Requirement)

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

O Yes

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

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

No

O No

• No

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

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

O Yes

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

N/SEPA Documentation

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document File must be PDF

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: https://msc.fema.gov/portal/search

8a. Will this project occur in a FEMA-designated 100-year floodplain?*

• Yes

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

NCDOT Hydraulics Unit coordination with FEMA

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

FEMA Maps (Panels 3710480200J and 3710480300K)

Miscellaneous

Comments

Miscellaneous attachments not previously requested. Click the upload button or drag and drop files here to attach document BR-0115 Application Cover Letter.pdf 169.61KB File must be PDF or KMZ (\land)

Signature

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

- I have given true, accurate, and complete information on this form:
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Michael Anthony Turchy

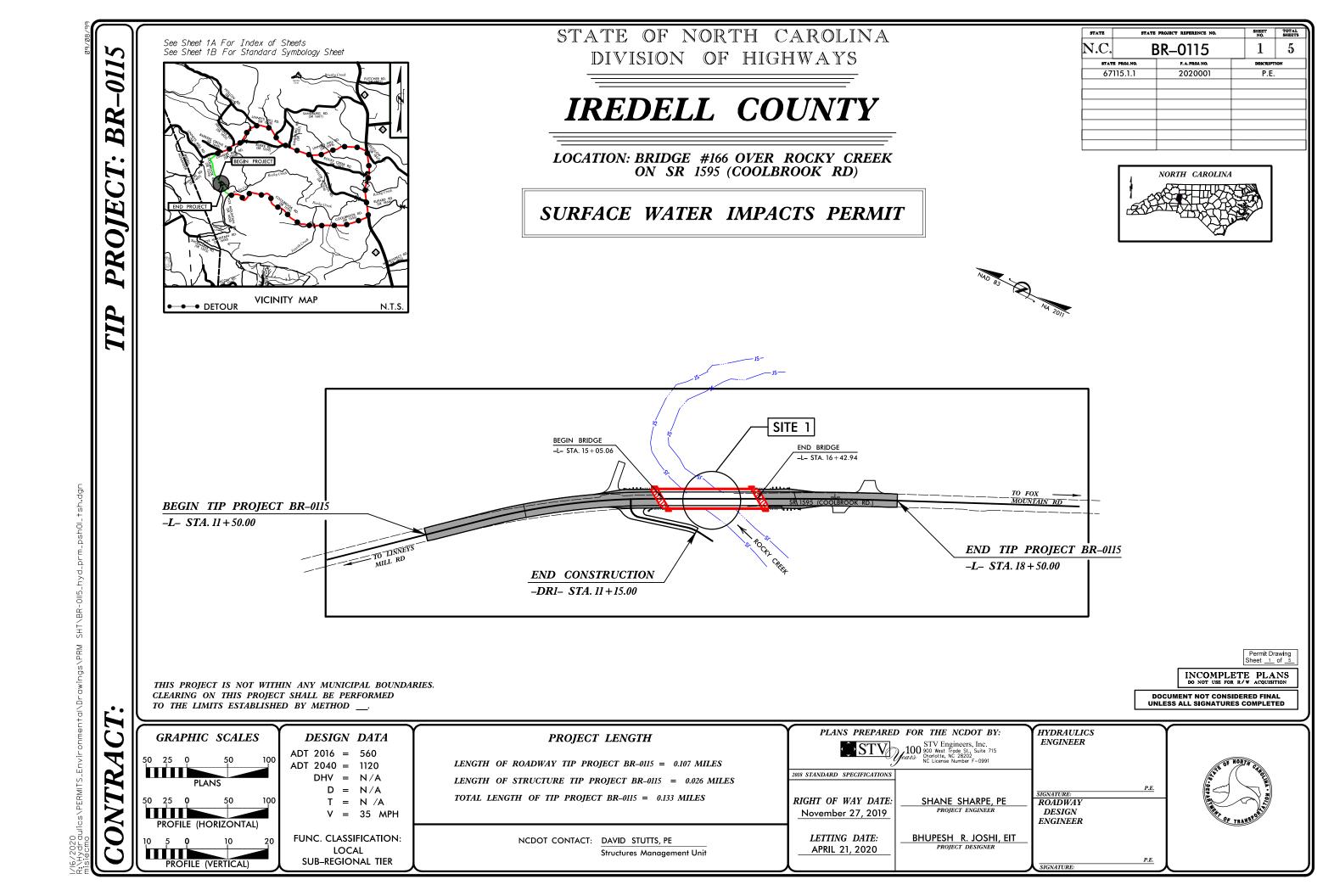
Signature

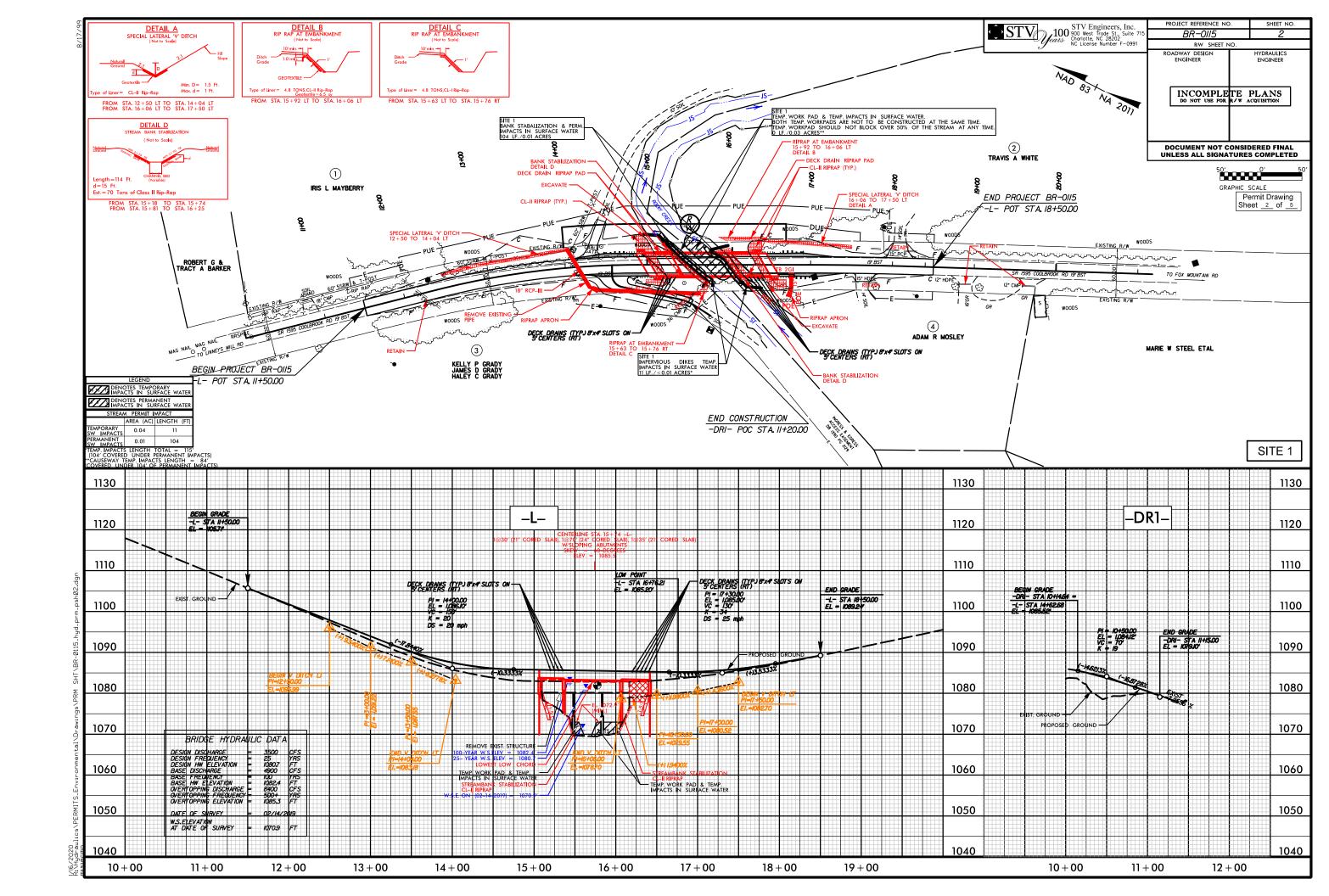
Hichael Tunchy

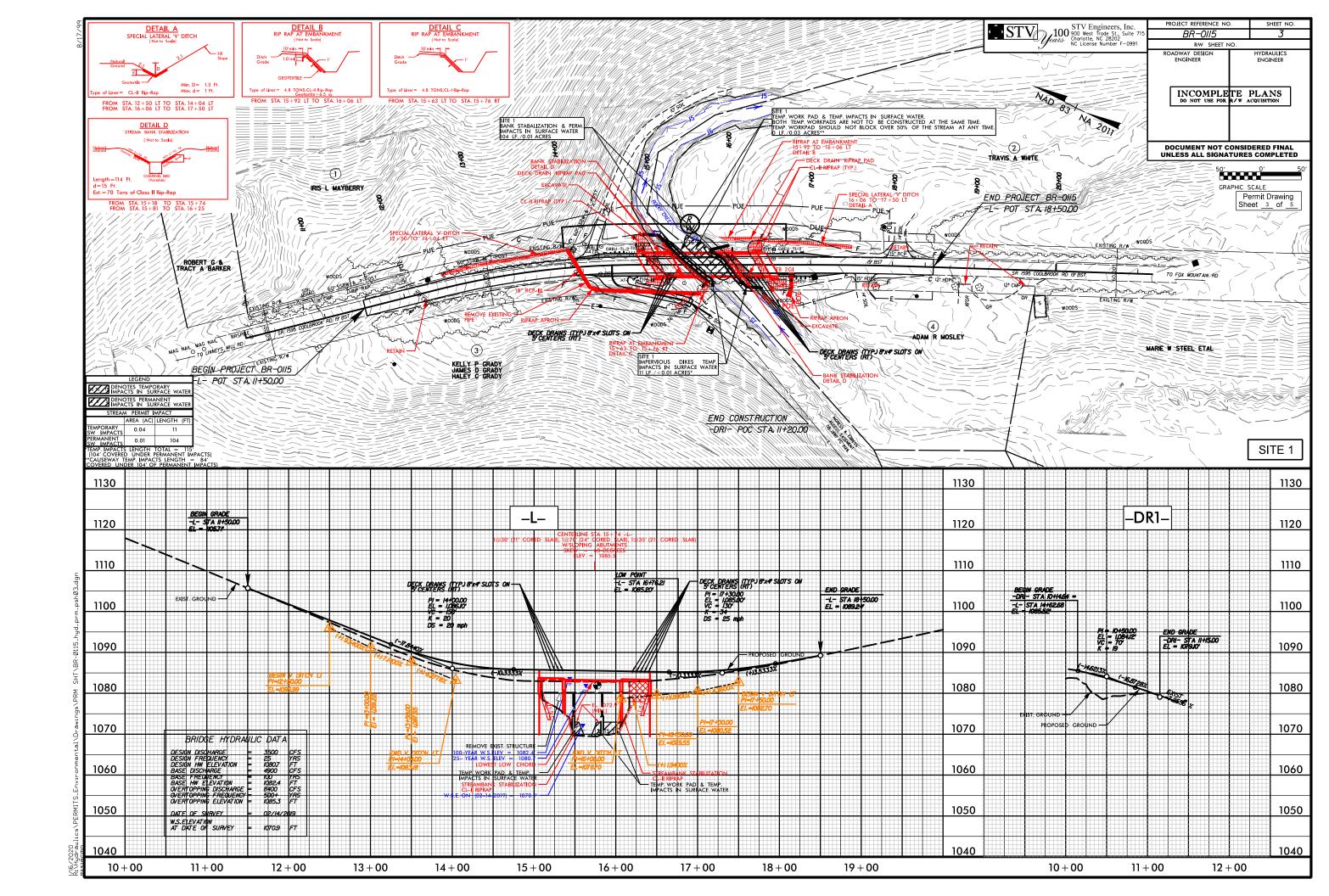
Date

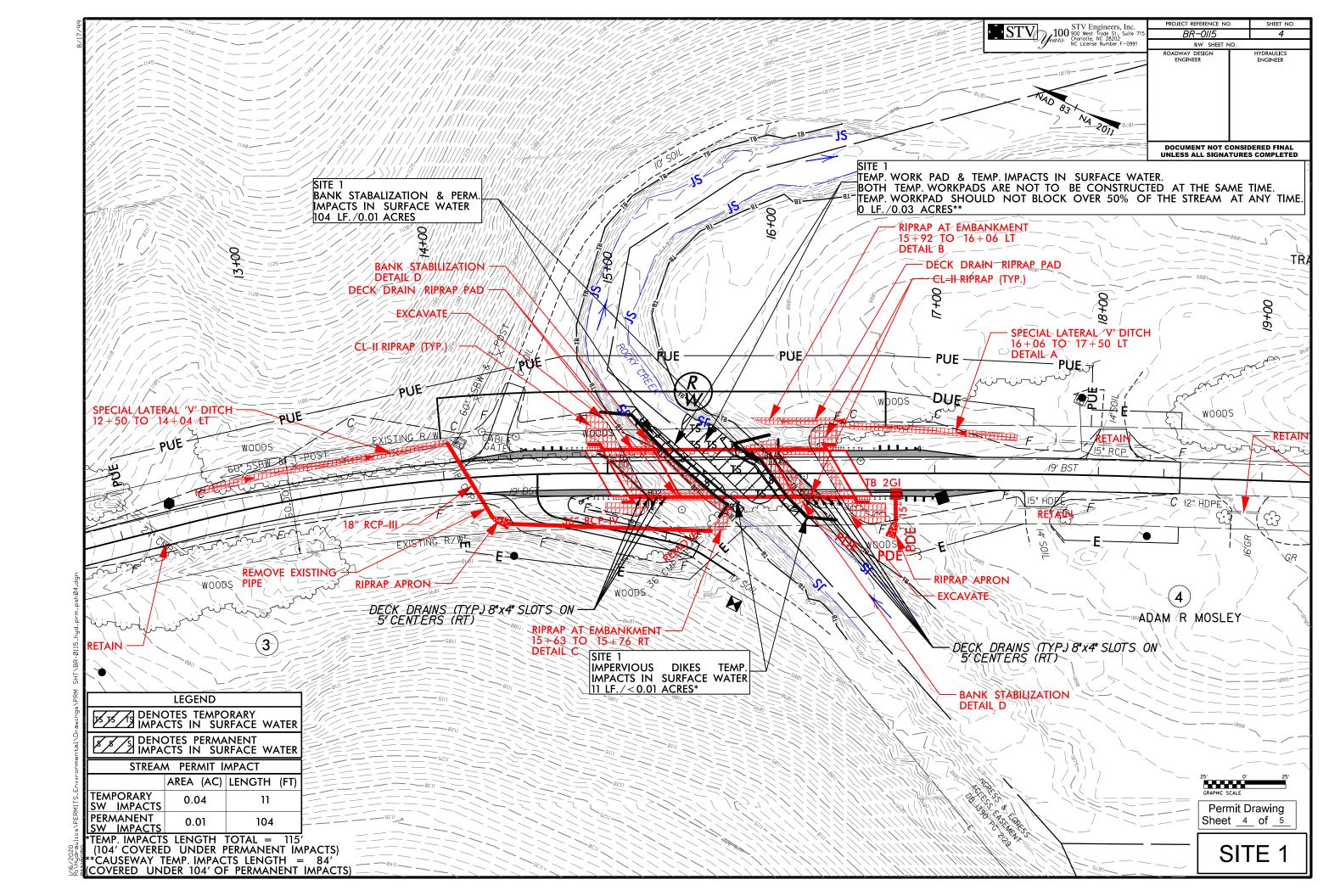
2/10/2020

Highway				North Car	olina Departm	ent of Transportatio	on					
Stormwater		Highway Stormwater Program STORMWATER MANAGEMENT PLAN										
(Version 2.08; Released April 2	2018)			STUR	FOR NCDOT F							
	15.1.1	TIP No.:	BR-0115		County(ies):					Pag	e 1	of 1
				G	eneral Project							
WBS Element:		67115.1.1		TIP Number:	BR-0115		Project	Type:	Bridge Replace	ement	Date:	12/4/2019
NCDOT Contact:		David Stutts		TH Rumbon	BICOTIO	Contractor / Desig			ers, Inc. / Shirs		Duto.	12, 1/2010
		1020 Birch Ridge	Drive						rade Street, Ste			
		Raleigh, NC 2761						Charlotte, N				
	Phone:	(919) 707-6442				1	Phone:	(704) 816-2	556			
	Email:	dstutts@ncdot.go	v				Email:	Shirshant.S	harma@stvinc.	com		
City/Town:			Love Va	alley, NC		County(ies):	Irec	lell				
River Basin(s):		Yadkin-F	'ee Dee			CAMA County?	N	0				
Wetlands within Project I	Limits?	No										
					Project Des							
Project Length (lin. miles	s or feet):	0.1	3	Surrounding I	and Use:	Rural Residential						
				Proposed Project	:t				Exis	ting Site		
Project Built-Upon Area (0.3		ac.			0.3		ac.		
Typical Cross Section De	escription:			e right and 3'11" to	the left paved s	houlders.	•		to the right and		ft shoulders.	
		Approach: 1 wo 10	r lanes, variable	paved shoulders.			Approach: Iv	vo 10 [°] lanes,	variable should	ers.		
Annual Avg Daily Traffic	(veh/hr/day):	Design/Future		1120	Year: 2040 Existing: 560			Ye	ar: 2016			
General Project Narrative	, ,					Ibrook Road) is bein				arrangement o		
Quality Impacts)		maintained. There frame and grates banks of the strea	e are roadside di (2GI) was placed am is also propos ervious dikes will	tches that flow towa d on the right side c sed to prevent futur	ards the bridge o of the roadway ir e erosion and st	Ith and 30' OTO widt on both sides of the p the shoulder berm tream migration. Dec ts to prevent the sed	project. On the gutter to pick u ck drains will b	end side of p runoff from e required to	the bridge, a tra the bridge. Cla meet spread cr	ffic bearing grains and the second seco	ated drop inloutment prot	et with double ection on both
												and will be
					Waterbody Inf							and will be
Surface Water Body (1):				^r Creek		NCDWR Stream In				12-108-11		and will be
Surface Water Body (1): NCDWR Surface Water C				r Creek Primary Classific Supplemental Cl	ation:		С			12-108-11		and will be
	Classification fo		Rocky	Primary Classific	ation:	NCDWR Stream In Class	С			12-108-11		and will be
NCDWR Surface Water C	Classification fo	r Water Body	Rocky	Primary Classific	ation:	NCDWR Stream In Class	С			12-108-11		and will be
NCDWR Surface Water C Other Stream Classificati Impairments:	Classification fo	r Water Body No	Rocky	Primary Classific Supplemental CI	ation:	NCDWR Stream In Class	С			12-108-11		
NCDWR Surface Water C Other Stream Classificat	Classification fo	r Water Body No	Rocky ne ne	Primary Classific Supplemental CI	ation:	NCDWR Stream In Class	С	Buffer Rule	es in Effect:	12-108-11		N/A
NCDWR Surface Water C Other Stream Classificati Impairments: Aquatic T&E Species?	Classification fo	r Water Body No No No	Rocky ne ne	Primary Classific Supplemental CI	ation: assification:	NCDWR Stream In Class None	С		es in Effect: Pads Provided			
NCDWR Surface Water C Other Stream Classificati Impairments: Aquatic T&E Species? NRTR Stream ID:	Classification fo iion: Spanning Water	r Water Body Noi Noi Body?	Rocky ne ne Comments:	Primary Classific Supplemental Cl	charge Over Bu	NCDWR Stream In Class None	C	Dissipator	Pads Provided escribe in the G	in Buffer?		N/A









					ID PERMIT	IMPACT SU	MMARY	
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands	Temp. Fill In Wetlands	Excavation in Wetlands	Mechanized Clearing in Wetlands		
1	-L- 15+23 TO 16+16	STREAMBANK STABALIZATION & IMPACTS IN SURFACE WATER ON BOTH LT AND RT SIDE OF THE STREAM	(ac)	(ac)	(ac)	(ac)	(ac)	(ac) 0.01
1	-L- 15+11 TO 15+83 -L- 15+69 TO 16+29	IMPERVIOUS DIKES & IMPACTS IN SURFACE WATER ON BOTH THE LT AND RT SIDE OF THE STREAM						
1	-L- 15+27 TO 16+08	TEMPORARY WORK PAD/CAUSEWAY ON BOTH LT AND RT SIDE OF THE STREAM & IMPACTS IN THE STREAM						
TOTAL	S:							0.01

*TEMPORARY IMPACTS LENGTH TOTAL = 115' (104' COVERED UNDER PERMANENT STREAMBANK STABILIZATION IMPACTS)

**CAUSEWAY TEMPORARY IMPACTS LENGTH = 84' (COVERED UNDER PERMANENT STREAMBANK STABILIZATION IMPACTS)

SURFACE WATER IMPACTS					
	Ŧ	Existing	Existing		
	Temp.	Channel	Channel	Natural	
	SW	Impacts	Impacts	Stream	
	impacts	Permanent	Temp.	Design	
	(ac)	(ft)	(ft)	(ft)	
		104			
	<0.01		11*		
	0.03		0**		
	0.04	104	11		

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BRIDGE #166 OVER ROCKY CREEK ON SR 1595 (COOLBROOK RD) IREDELL COUNTY BR-0115

SHEET 5 of 5

1/16/2020



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

June 17, 2019

TO:	Carla Dagnino, ECAP Group Leader Environmental Analysis Unit
FROM:	Chris Manley, Environmental Program Consultant Biological Surveys Group, EAU

SUBJECT: Section 7 survey results for the northern long-eared bat (*Myotis septentrionalis*) associated with the replacement of Bridge No. 166 over Rocky Creek on SR 1595 in Iredell County, **TIP No. BR-0115**.

The North Carolina Department of Transportation (NCDOT, Division 12) proposes to replace Bridge No. 166 over Rocky Creek on SR 1595 in Iredell County, TIP No. BR-0115. The existing bridge is a three-span structure with steel beams, timber deck and guard rails, and concrete end walls. The overall length of the structure is 107 feet.

Northern long-eared bat

The project to replace Bridge No. 166 has been reviewed for effects on the northern longeared bat (NLEB). As of May 4, 2015, NLEB is listed by the U.S. Fish and Wildlife Service (USFWS) as "Threatened" under the Endangered Species Act of 1973. As of June 17, 2019, NLEB is listed by USFWS (http://www.fws.gov/raleigh/species/cntylist/nc_counties.html) as "probable/potential" in Iredell County. USFWS also established a final rule under the authority of section 4(d) of the Endangered Species Act that provides measures for the conservation of NLEB. The USFWS has tailored the final 4(d) rule to prohibit the take of NLEB from certain activities within areas where they are in decline. This incidental take protection applies only to known NLEB occupied maternity roost trees and known NLEB hibernacula. Effective February 16, 2016, incidental take resulting from tree removal is prohibited if it 1) occurs within a ¹/₄ mile radius of known NLEB hibernacula; or 2) cuts or destroys known occupied maternity roost trees or any other trees within a 150-foot radius from the known maternity tree during the pup season (June 1-July 31).

TELEPHONE: 919-707-6000 FAX: 919-212-5785 Location: CENTURY CENTER, BUILDING B 1020 BIRCH RIDGE DRIVE RALEIGH NC 27610

WEBSITE:NCDOT.GOV

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated April 2019, **the nearest NLEB hibernacula record is 45 miles west of the project and no known NLEB roost trees occur within 150 feet of the project area**.

NCDOT has also reviewed the USFWS Asheville Field office website (http://www.fws.gov/asheville/htmls/project review/NLEB in WNC.html) for consistency with NHP records. This project is located entirely outside of the red highlighted areas (12-digit HUC) that the USFWS Asheville Field Office has determined to be representative of an area that may require consultation.

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

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

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

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