

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

March 6, 2017

Washington Regulatory Field Office N.C. Dept. of Environmental Quality U. S. Army Corps of Engineers **Division of Coastal Management** 2407 West 5th Street 400 Commerce Avenue Washington, North Carolina 27889 Morehead City, NC 28557 ATTN: Mr. Tom Steffens ATTN: Mr. Stephen Lane NCDOT Coordinator NCDOT Coordinator Revised Application for Section 10 Permit, Nationwide Permits 12, 23, & 33, Section Subject: 401 Water Quality Certification, Buffer Authorization, and CAMA Major Development Permit for the Proposed Replacement of Bridge No. 16 over Mason Creek on SR 1324 (Florence Rd) in Pamlico County, North Carolina; TIP No. B-4598; Federal

Aid Project No. BRZ-1324(5); Debit \$475 from WBS No. 38426.1.2

Reference: Permit Application dated January 13, 2017

Dear Sirs,

The NCDOT submitted a permit application to your agencies for this project on January 13, 2017; however, due to Session Law 2015-246 (§143-214.23A. Sec. 13.3(b)) buffer limits in coastal wetlands have changed. Therefore the permit and buffer drawings have been modified. In addition to the revised buffer impacts, the proposed temporary work pad has been removed and proposed stormwater discharge outlets have been relocated out of the revised buffer zones. Please see enclosed copies of the revised permit drawings, buffer drawings, utility drawings, pre-construction notification, mitigation debit ledger summary, and CAMA MP1 form for the subject project (there were no changes to MP5).

This project calls for a letting date of June 20, 2017 and a review date of May 2, 2017.

Regulatory Approvals

<u>Section 10 Permit:</u> Application is hereby made for a Section 10 Permit as required for the abovedescribed activities in accordance with Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 U.S.C. 403)

<u>Section 404 Permit</u>: We anticipate that the bridge replacement, including all approach work will be authorized under a Section 404 Nationwide Permit (NWP) 23 (Categorical Exclusions), the temporary work pad under a NWP 33, and utility relocations under a NWP 12 in accordance with Section 404 of the Clean Water Act (33 U.S.C. 1344).

<u>Section 401 Permit</u>: We anticipate 401 General Certification numbers 3891, 3893, and 3884 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental Quality, Division of Water Resources.

<u>Neuse Riparian Buffer Authorization</u>: NCDOT is requesting a Neuse Riparian Buffer Authorization from the North Carolina Department of Environmental Quality, Division of Water Resources.

<u>CAMA Major Development Permit</u>: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Permit. Adjacent riparian landowner certified mail receipts have been provided. Authorization to debit the \$475 Permit Application Fee from WBS Element 38426.1.2 is hereby given.

A copy of this revised permit application and its distribution list will be posted at the NCDOT Website at https://connect.ncdot.gov/resources/Environmental. Should you have any questions regarding this information, please contact Tyler Stanton at (919) 707-6156 or tstanton@ncdot.gov.

Sincerely,

Philip S. Harris III, P.E., C.P.M. Natural Environment Section Head





Office Use Only: Corps action ID no. _____ DWQ project no. _____ Form Version 1.4 January 2009

	Pre-Construction Notification (PCN) Form							
Α.	Applicant Information							
1.	Processing							
1a.	a. Type(s) of approval sought from the Corps: ⊠ Section 404 Permit ⊠ Section 10 Permit							
1b.	Specify Nationwide Permit (NWP) number: 1	12, 23, 33 or General Permit	(GP) number:				
1c.	Has the NWP or GP number bee	en verified b	by the Corps?	🗌 Yes	🖾 No			
1d.	Type(s) of approval sought from	the DWQ (check all that apply):					
	A01 Water Quality Certificatio	n – Regula	r 🗌 Non-404 Jurisdiction	al General Perm	it			
	401 Water Quality Certificatio	n – Expres	s 🛛 Riparian Buffer Auth	orization				
1e.	Is this notification solely for the rebecause written approval is not r	ecord equired?	For the record only for DWQ 401 Certification:	For the record	only for Corps Permit:			
1f.	Is payment into a mitigation bank of impacts? If so, attach the acc fee program.	🛛 Yes	🗌 No					
1g.	Is the project located in any of N below.	🛛 Yes	🗌 No					
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	🖾 Yes	🗌 No			
2.	Project Information			·				
2a.	Name of project:	B-4598 - 1 1324	PROPOSED REPLACMENT OF BR	IDGE 16 OVER	MASON CREEK ON SR			
2b.	County:	Pamlico						
2c.	Nearest municipality / town:	Merritt						
2d.	Subdivision name:	n/a						
2e.	NCDOT only, T.I.P. or state project no:	B-4598						
3.	Owner Information							
За.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation					
3b.	Deed Book and Page No.							
3c.	Responsible Party (for LLC if applicable):							
3d.	Street address:	1598 Mail	I Service Center					
3e.	City, state, zip:	Raleigh, N	NC 27699-1598					
3f.	Telephone no.:	919-707-6	6156					
3g.	Fax no.:	919-212-5	5785					
3h.	Email address:	tstanton@	Incdot.gov					

4.	Applicant Information (if different from owner)					
4a.	Applicant is:	Agent Other, specify:				
4b.	Name:					
4c.	Business name (if applicable):					
4d.	Street address:					
4e.	City, state, zip:					
4f.	Telephone no.:					
4g.	Fax no.:					
4h.	Email address:					
5.	Agent/Consultant Information	(if applicable)				
5a.	Name:					
5b.	Business name (if applicable):					
5c.	Street address:					
5d.	City, state, zip:					
5e.	Telephone no.:					
5f.	Fax no.:					
5g.	Email address:					

В.	B. Project Information and Prior Project History						
1.	Property Identification						
1a.	Property identification no. (tax PIN or parcel ID):						
1b.	Site coordinates (in decimal degrees):	Latitude: 35.1319 (DD.DDDDDD) Longitude: - 76.6845 (-DD.DDDDDD)					
1c.	Property size:	Approximately 30 acres					
2.	Surface Waters						
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Mason Creek					
2b.	Water Quality Classification of nearest receiving water:	SC; Sw, NSW, HQW					
2c.	c. River basin: Neuse						
3.	Project Description						
За.	Describe the existing conditions on the site and the general lar application:	nd use in the vicinity of the project at the time of this					
	swamp, marsh, forest, cropland, some rural residential						
3b.	List the total estimated acreage of all existing wetlands on the	property:					
	Approximately 4.5 acre						
3c.	List the total estimated linear feet of all existing streams (interm 315'	ittent and perennial) on the property:					
3d.	Explain the purpose of the proposed project: Replace a functionally obsolete and structurally deficient bridg Replacement of the bridge will result in safer traffic operations.	e that is approaching the end of its useful life.					
3e.	 Bescribe the overall project in detail, including the type of equipment to be used: The proposed project will replace Pamlico County Bridge No. 16 on SR 1324 (Florence Road) over Mason Creek. Currently, bridge No. 16 is 61 feet long. The replacement structure will be a bridge approximately 110 feet long providing a minimum of 33.5 feet of clear deck width. Grading, paving, clearing, utility relocation, excavation and fill associated with the roadway and bridge work. Cranes, pile driving equipment, grading equipment, bull dozers, excavators, offroad trucks, and boring machines will be used 						
4.	Jurisdictional Determinations						
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	🖾 Yes 🗌 No 📄 Unknown					
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	Preliminary D Final					
4c.	If yes, who delineated the jurisdictional areas? Name (if known): NCDOT	Agency/Consultant Company: Other:					
4d.	 4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. A JD Request was sent on 6/25/12 						
5.	Project History						
5a.	ia. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?						
5b. Ple	5b. If yes, explain in detail according to "help file" instructions. Please see attached cover letter.						

6.	Future Project Plans		
6a.	Is this a phased project?	🗌 Yes	🖾 No
6b.	If yes, explain.		

C. Proposed Impacts Inventory							
1. Impacts Summary							
1a. Which sections	1a. Which sections were completed below for your project (check all that apply):						
⊠ Wetlands	⊠ Wetlands						
Open Waters	☑ Open Waters						
2. Wetland Impacts	S						
If there are wetland	impacts proposed on	the site, then complet	e this question	for each wetland area impacted	ed.		
2a.	2b.	2c.	2d.	2e.	2f.		
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	Area of impact (acres)		
W1 🛛 P 🗌 T	bridge approach fill	coastal marsh	☐ Yes ⊠ No	Corps	0.09		
W2 🛛 P 🗌 T	excavation	coastal marsh	☐ Yes ⊠ No	Corps	< 0.01		
W3 🗌 P 🗌 T			⊠ Yes □ No	⊠ Corps □ DWQ			
W4 🗌 P 🗌 T			☐ Yes ⊠ No	Corps			
W4 🗌 P 🗌 T			□ Yes ⊠ No	Corps			
W5 🗌 P 🗌 T			□ Yes ⊠ No	Corps			
W6 🗌 P 🗌 T			☐ Yes ⊠ No	Corps			
W7 🗌 P 🗌 T	W7 □ P □ T □ Yes ⊠ Corps ⊠ No □ DWQ						
2g. Total wetland in	npacts				0.09		
2h. Comments: There will be 0.07 ac of handclearing due to road construction and 0.13 ac due to utility relocation. Additionally							

there will be 0.01 ac of temporary fill in handclearing areas due to erosion control measures.

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.

940040111		an ellee inpaeleai								
3a. Stream i numb Permaner Tempora	mpact er - nt (P) or ary (T)	3b. Type of impact	3c. Stre	am	name	3d. Perennial (PER) or intermittent (INT)?	3e. Type o (Corp DWQ	f jurisdiction s - 404, 10 – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
S1 🗌 P [_ T					PER INT	Corps			
S2 🗌 P [T					□ PER □ INT	Corp	ວຣ ລຸ		
S3 🗌 P [T					PER INT	Corp	ວຣ ລຸ		
S4 🗌 P [T					PER INT	Corp	ວຣ ລຸ		
S5 🗌 P [T					PER INT	Corp	ວຣ ລຸ		
S6 🗌 P [T					PER INT	Corp	ວຣ ລຸ		
3h. Total s	stream a	nd tributary impacts								
3i. Comm	3i. Comments:									
4. Open If there are the U.S. th	Water II e proposi nen indivi	mpacts ed impacts to lakes, ponds, idually list all open water im	estuari pacts b	ies, elov	tributaries v.	, sounds, the	Atlantic C	Ocean, or an	y other open v	vater of
4a.	4	b.	4c.			4d.		4e.		
Open water impact number – Permanent (P) or		Name of waterbody (if applicable)	Type of impac		pact	Waterbody type		Area of impact (acres)		
		Macon Crook	Excavation			0	room	< 0	01	
01 🛛 P		Mason Creek			5	licalli	< 0.	01		
03 🗌 P	ПТ									
04 🗌 P	ПТ									
4f. Total o	open wat	er impacts							< 0.	01
4g. Comm	nents: Th	ere will be <0.01 acres of F	ermane	ent S	SW impact	s for interior b	ent at 16	+43		
5. Pond	or Lake	Construction								
If pond or	lake con	struction proposed, then co	mplete	the	chart belo	W.	[Г_
5a. 5b. Pond ID Proposed use or purpose of		osed use or purpose of	5c. Wetland Impact		nd Impact	ts (acres) 5d.		5d. Stream Impacts (fe		5e. Upland (acres)
number		pond	Flood	ed	Filled	Excavated	Floode	d Filled	Excavated	Flooded
P1										
P2										
5f. Total										
5g. Comm	nents:						1		1	1
5h. Is a da	5h. Is a dam high hazard permit required?									
5i. Expe	5i. Expected pond surface area (acres):									

5j.	Size of pond watershed (acres):	
5k.	Method of construction:	

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			⊠ Neuse □ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:	
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)	
В1 🛛 Р 🗌 Т	Bridge	Mason Creek	☐ Yes ⊠ No	724	98	
В1 🛛 Р 🗌 Т	Roadway	Mason Creek	☐ Yes ⊠ No	1802	1083	
В1 🛛 Р 🗌 Т	O/H Power	Mason Creek	☐ Yes ⊠ No	146	750	
		6h. Total k	ouffer impacts	2672	1931	
6i. Comments:						
D. Impact Just	ification and Mitig	gation				
1. Avoidance	and Minimization					
1a. Specifically	describe measures	s taken to avoid or minimize the	e proposed imp	acts in designing pro	ject.	
A maximum of 3:1 fill slopes will be constructed in jurisdictional areas will be used. The proposed bridge will have no direct discharge into the water as no deck drains will be installed.						
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.						
An in-water work	k moratorium for th	e Primary Nursery Area betwe	en April 1 and S	September 30 will be	strictly enforced during	
construction. The majority of stormwater runoff from the proposed bridge is to flow to two proposed drop inlets, located at the						

approach on each side of the bridge. Stormwater runoff will be discharged at minimum practicable slopes, yielding minimum velocities and diffused with riprap pads at pipe outlets, which the existing drainage does not benefit from. All proposed stormwater runoff is discharged as far away from the stream and at lowest velocities as practicable. NCDOT will implement "Guidelines for Avoiding Impacts to the West Indian Manatee, Precautionary Measures for Construction Activities in North Carolina Waters," during work for this project. Design Standards in Sensitive Watersheds will be implemented during construction.

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

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	Yes 🗌 N	0		
2b. If yes, mitigation is required by (check all that apply):		orps		
2c. If yes, which mitigation option will be used for this project?	 Mitigation bank Payment to in-lieu fee program Permittee Responsible Mitigation 			
3. Complete if Using a Mitigation Bank				
3a. Name of Mitigation Bank:				
3b. Credits Purchased (attach receipt and letter)	Туре	Quantity		

3c. Comme	ents: Credits will be debited from the	ne Lengyel Mitigation	Site				
4. Comp	lete if Making a Payment to In-lie	eu Fee Program					
4a. Approv	al letter from in-lieu fee program is	attached.	Yes				
4b. Stream	n mitigation requested:		0 linear feet				
4c. If using	stream mitigation, stream temper	ature:	🗌 warm 🗌 co	bol 🗌 cold			
4d. Buffer	mitigation requested (DWQ only):		0 square feet				
4e. Riparia	in wetland mitigation requested:		0 acres				
4f. Non-rip	parian wetland mitigation requested	d:	0 acres				
4g. Coasta	I (tidal) wetland mitigation request	ed:	0 acres				
4h. Comm	4h. Comments:						
5. Comp	lete if Using a Permittee Respor	sible Mitigation Pla	n				
5a. If using	g a permittee responsible mitigatio	n plan, provide a des	cription of the propose	ed mitigation plan.			
Credits	s will be debited from the Lengyel	Mitigation Site					
6. Buffer	Mitigation (State Regulated Rip	arian Buffer Rules)	- required by DWQ				
6a. Will the buffer	e project result in an impact within a mitigation?	a protected riparian b	ouffer that requires	🗌 Yes 🛛 No			
6b. If yes, amour	then identify the square feet of imp t of mitigation required.	pact to each zone of t	the riparian buffer that	requires mitigation. Calculate the			
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)			
Zone 1			3 (2 for Catawba)				
Zone 2			1.5				
		6f. Total buffer i	mitigation required:				
6g. If buffe permit	6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).						
6h. Comm	6h. Comments:						

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)				
1. Diffuse Flow Plan				
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	🛛 Yes	🗌 No		
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	🗌 Yes	🗌 No		
2. Stormwater Management Plan				
2a. What is the overall percent imperviousness of this project?	N/A			
2b. Does this project require a Stormwater Management Plan?	🛛 Yes	□ No		
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:				
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan.				
2e. Who will be responsible for the review of the Stormwater Management Plan?	Certified Lo	ocal Government mwater Program Unit		
3. Certified Local Government Stormwater Review				
3a. In which local government's jurisdiction is this project?	N/A			
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	Phase II NSW USMP Water Sup Other:	ply Watershed		
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	🗌 Yes	🗌 No		
4. DWQ Stormwater Program Review	_			
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	 ➢ Coastal co ➢ HQW ☐ ORW ☐ Session L ☐ Other: 	ounties .aw 2006-246		
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□ No N/A		
5. DWQ 401 Unit Stormwater Review				
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	🗌 No N/A		
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes	No N/A		

F.	Supplementary Information				
1.	Environmental Documentation (DWQ Requirement)				
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	🛛 Yes	🗌 No		
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	🛛 Yes	🗌 No		
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	🛛 Yes	🗌 No		
	Comments: NEPA PCE for TIP B-4598				
2.	Violations (DWQ Requirement)				
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	🗌 Yes	🛛 No		
2b.	Is this an after-the-fact permit application?	🗌 Yes	🛛 No		
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s):			
3.	Cumulative Impacts (DWQ Requirement)				
За.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes	🖾 No		
3b.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative imp most recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in a	ccordance with the		
	Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.				
4.	Sewage Disposal (DWQ Requirement)				
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility.	arge) of wastewat	er generated from		

5.	5. Endangered Species and Designated Critical Habitat (Corps Requirement)						
5a.	Will this project occur in or near an ar habitat?	□ No					
5b.	Have you checked with the USFWS c impacts?	oncerning Endangered Species Act	Yes	🗌 No			
5c.	5c. If yes, indicate the USFWS Field Office you have contacted. Image: Raleigh Image: Asheville						
5d.	id. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?						
	USFWS & NOAA Fisheries websites	and agency consultations					
6.	Essential Fish Habitat (Corps Requ	irement)					
6a.	Will this project occur in or near an are	a designated as essential fish habitat?	🛛 Yes	🗌 No			
6b.	What data sources did you use to det NMFS county index	ermine whether your site would impact E	ssential Fish Habitat?	· · · · · · · · · · · · ·			
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)					
7a.	Will this project occur in or near an are governments have designated as hav status (e.g., National Historic Trust de North Carolina history and archaeolog	ea that the state, federal or tribal ing historic or cultural preservation signation or properties significant in y)?	☐ Yes	No No			
7b.	What data sources did you use to dete NEPA documentation	ermine whether your site would impact h	istoric or archeological ı	resources?			
8. F	lood Zone Designation (Corps Requ	irement)					
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	🛛 Yes	🗌 No			
8b.	lf yes, explain how project meets FEM	A requirements:					
8c. 1	What source(s) did you use to make th	e floodplain determination? approved NI	EPA documents				
for	Applicant/Agent's Printed Name (Agent's signature is valid only if an authorization letter from the applicant is provided.)						

APPLICATION for Major Development Permit



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information							
Business Name			Project Name (if app	olicable)			
North Carolina Departme	ent Of Transportation			B-4598 Bridge Re	placement ov	er Mason	Creek
Applicant 1: First Name		MI		Last Name			
Philip		S.		Harris			
Applicant 2: First Name		MI		Last Name			
If additional applicants, plea	ase attach an additional pag	ge(s)	with names I	isted.			
Mailing Address				PO Box	City		State
1598 Mail Service Cente	r				Raleigh		NC
ZIP	Country		Phone No.	· · ·		FAX No.	
27699 1598	USA		919 - 707 -	- 6156 ext.		-	-
Street Address (if different f	rom above)			City	State		ZIP
						-	
Email				•			·
tstanton@ncdot.gov							

2. Agent/Contractor Information							
Business Name							
Agent/ Contractor 1: First Nam	e	МІ	Last Name				
Agent/ Contractor 2: First Nam	e	MI	Last Name				
Mailing Address			PO Box	City			State
ZIP		Phone No. 1 -	- ext.		Phone No. 2 -	-	ext.
FAX No.		Contractor #					
Street Address (if different from above)			City State Z		ZIP	ZIP -	
Email						•	

<Form continues on back>

3. Project Location						
County (can be multiple)	Street Address			State Rd. #		
Pamlico	Florence Rd				SR 1324	
Subdivision Name		City		State	Zip	
		Merritt		NC	28556 -	
Phone No.			Lot No.(s) (if many, attach	additional pa	age with list)	
ext.			, , ,	,		
a. In which NC river basin is the projec	t located?		b. Name of body of water r	nearest to pr	oposed project	
Neuse			Mason Creek			
c. Is the water body identified in (b) abo	ove, natural or manma	ade?	d. Name the closest major	water body	to the proposed project site.	
⊠Natural □Manmade □Unknow	n		Bay River / Pamlico	Sound		
e. Is proposed work within city limits or	planning jurisdiction?		f. If applicable, list the planning jurisdiction or city limit the proposed			
⊠Yes □No			work falls within.			
			Town of Merritt, NC			
[
4. Site Description						
a. Total length of shoreline on the tract	(ft.)		b. Size of entire tract (sq.ft.)			
275'			43705 sq. ft.			
c. Size of individual lot(s)			d. Approximate elevation of tract above NHW (normal high water) or			
NA, , , ,	itional nace with a list)				
		/				
e. Vegetation on tract						
Marsh, maintained-disturbed, lorested						
f. Man-made features and uses now or	n tract					
Roadway, bridge, utility structures						

g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Cropland, woods, rural residential.

h. How does local government zone the tract?	i. Is the proposed project consistent with the applicable zoning?		
Rural	(Attach zoning compliance certificate, if applicable)		
	□Yes □No ⊠NA		
j. Is the proposed activity part of an urban waterfront redevelopment	proposal? Yes No		
k. Has a professional archaeological assessment been done for the t	ract? If yes, attach a copy. □Yes ⊠No □NA		
If yes, by whom?			
 Is the proposed project located in a National Registered Historic Dis National Register listed or eligible property? 	strict or does it involve a ☐Yes ⊠No ☐NA		

<Form continues on next page>

APPLICATION for

Major Development Permit

m	. (i) Are there wetlands on the site?	⊠Yes	□No
	(ii) Are there coastal wetlands on the site?	⊠Yes	□No
	(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (<i>Attach documentation, if available</i>)	⊠Yes	□No
n.	Describe existing wastewater treatment facilities. N/A		
0.	Describe existing drinking water supply source. N/A		
p.	Describe existing storm water management or treatment systems.		
Si	cormwater runoff on the existing bridge discharges directly into the water through dec	k drains alor	a the full length
of	the bridge.		ig the full length
5	. Activities and Impacts		
a.	Will the project be for commercial, public, or private use?	□Commercia □Private/Con	☐ Public/Government
b.	Give a brief description of purpose, use, and daily operations of the project when complete.		
	B-4598 is the planned replacement of bridge 16 in Pamlico County. The project lies wetlands are involved. The existing structure over Mason Creek was built in 1966 a concrete channels with a total length of 61'. The proposed structure will be a dual sp overall length of 110'. The final proposed structure does not require deck drains.	within a CAI nd is a dual s pan 21" Core	MA county and CAMA span bridge on prestressed ed Slab structure with an
C.	Describe the proposed construction methodology, types of construction equipment to be used	during constru	iction, the number of each type
	Crance, pile driving equipment, grading equipment, bull dezera, executator, effred	trucka and k	oring machines
	Cranes, pile driving equipment, grading equipment, buil dozers, excavators, onroad	liucks, and i	oning machines.
d.	List all development activities you propose.		
	Removal of the existing bridge. Installation of the new bridge. Grading, paving, clear associated with the roadway and bridge work.	aring, utility re	elocation, excavation and fill
٩	Are the proposed activities maintenance of an existing project, new work, or both?	New Work	
0.			
f.	What is the approximate total disturbed land area resulting from the proposed project?	1.0	□Sq.Ft or ⊠Acres
g.	Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	⊠Yes □I	No 🗌 NA
h.	Describe location and type of existing and proposed discharges to waters of the state.		
	Stormwater runoff on the existing bridge discharges directly into the water through d bridge. However, the proposed bridge will have no direct discharge into the water as majority of stormwater runoff from the proposed bridge is to flow to two (2) proposed each side of the bridge then to junction boxes and outlet 10'+ outside BZ 2. Stormwa practicable slopes, yielding minimum velocities and diffused with riprap pads at pipe does not benefit from. All proposed stormwater runoff is discharged as far away fror practicable.	eck drains al no deck dra drop inlets, ater runoff wi outlets, whic n the stream	ong the full length of the ins will be installed. The located at the approach on II be discharged at minimum th the existing drainage and at lowest velocities as
i.	Will wastewater or stormwater be discharged into a wetland?	⊠Yes □N	Io 🗌 NA
	If yes, will this discharged water be of the same salinity as the receiving water?	□Yes ⊠N	No 🗍 NA
j.	Is there any mitigation proposed? If yes, attach a mitigation proposal.	⊠Yes □N	Io 🗍 NA

<Form continues on back>

6. Additional Information

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

a. A project narrative.

b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.

c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.

d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.

e. The appropriate application fee. Check or money order made payable to DENR.

f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.

Phone No.

Phone No.

Phone No.

Name see previously provided letters

Address

Name

Address

Name

Address

g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.

h. Signed consultant or agent authorization form, if applicable.

i. Wetland delineation, if necessary.

j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner)

k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 03-06-2017

Print Name PHILIP S. HARRIS Signature

☑DCM MP-5 Bridges and Culverts

Please indicate application attachments pertaining to your proposed project.

DCM MP-2 Excavation and Fill Information

DCM MP-3 Upland Development

DCM MP-4 Structures Information

Form DCM MP-5 **BRIDGES and CULVERTS**

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	BRIDGES		☐ This section not applicable
a.	Is the proposed bridge: ☐Commercial ⊠Public/Government ☐Private/Community	b.	Water body to be crossed by bridge: Mason Creek
C.	Type of bridge (construction material): The proposed bridge is a two span 21" cored slab bridge	d.	Water depth at the proposed crossing at NLW or NWL: 4.5' at MTL (Mean Tide Level)
e.	 (i) Will proposed bridge replace an existing bridge? ⊠Yes □No If yes, (ii) Length of existing bridge: <u>61'</u> (iii) Width of existing bridge: <u>26'</u> (iv) Navigation clearance underneath existing bridge: <u>3.0'</u> (v) Will all, or a part of, the existing bridge be removed? (Explain) All of the existing bridge and abandoned piers are proposed to be removed. 	f.	 (i) Will proposed bridge replace an existing culvert? □Yes ⊠No If yes, (ii) Length of existing culvert: (iii) Width of existing culvert: (iv) Height of the top of the existing culvert above the NHW or NWL: (v) Will all, or a part of, the existing culvert be removed? (Explain)
g.	Length of proposed bridge: <u>110'</u>	h.	Width of proposed bridge: <u>36'</u>
i.	Will the proposed bridge affect existing water flow? ☐Yes ⊠No If yes, explain: Flooding source controlled by Pamlico Sound tidal surge.	j.	Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ⊠Yes □No If yes, explain: The existing bridge has a navigational clearance of 3.0' but the proposed bridge will have a navigational clearance of 3.3'.
k.	Navigation clearance underneath proposed bridge: <u>3.3'</u>	l.	Have you contacted the U.S. Coast Guard concerning their approval? If yes, explain: An Advance Approval Letter was issued (see attached).
m.	Will the proposed bridge cross wetlands containing no navigable waters? ☐Yes ⊠No If yes, explain:	n.	Height of proposed bridge above wetlands: <u>1' to 3'</u>
2.	CULVERTS		⊠ This section not applicable

a. Number of culverts proposed:

b. Water body in which the culvert is to be placed:

< Form continues on back>

C.	Type of culvert	(construction	material)	:
0.	Type of ourvert	(0011011 0011011	materiary	٠

d.	 (i) Will proposed culvert replace an existing bridge? Yes No If yes, (ii) Length of existing bridge: (iii) Width of existing bridge: (iv) Navigation clearance underneath existing bridge: (v) Will all, or a part of, the existing bridge be removed? (Explain) 	e.	 (i) Will proposed culvert replace an existing culvert? □Yes □No If yes, (ii) Length of existing culvert(s): (iii) Width of existing culvert(s):
f. h.	Length of proposed culvert: Height of the top of the proposed culvert above the NHW or NWL.	g. i.	Width of proposed culvert: Depth of culvert to be buried below existing bottom contour.
j.	Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐Yes ☐No If yes, explain:	k.	Will the proposed culvert affect existing water flow?
3.	EXCAVATION and FILL		☐ <i>This section not applicable</i>
3. a.	EXCAVATION and FILL (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? Yes If yes, (ii) Avg. length of area to be excavated:	b.	☐ This section not applicable (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. ⊠CW 259 s.f. □SAV □SB □WL □None (ii) Describe the purpose of the excavation in these areas: Excavation was recquired for the spill through abutment.

Form	DCM	MP-5	(Bridges	and	Culverts.	Page	3	of	4)
			(,		_		- /

d.	If the placement of the bridge or culvert involves any excavation, plea (i) Location of the spoil disposal area: TBD by contractor; however and used for roadbed fill or removed for off-site storage on his	ise coi er, ex gh grc	nplete the following: cavated soil will likely be stored under proposed roadbed bund.
	 (ii) Dimensions of the spoil disposal area: N/A (iii) Do you claim title to the disposal area? ⊠Yes □No (If no, atalia (iv) Will the disposal area be available for future maintenance? □Yee (v) Does the disposal area include any coastal wetlands/marsh (CW), bottom (SB)? □CW □SAV □WL □SB ⊠None If any boxes are checked, give dimensions if different from (ii) above 	tach a ⊧s ⊠ , subm ove.	<i>letter granting permission from the owner.)</i> No lerged aquatic vegetation (SAVs), other wetlands (WL), or shell
	(vi) Does the disposal area include any area below the NHW or NWL If ves, give dimensions if different from (ii) above.	??[]Yes ⊠No
e.	 (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? If yes, (ii) Avg. length of area to be filled: 	f.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
	 (iii) Avg. width of area to be filled: (iv) Purpose of fill: There are fourteen proposed 12" x 12" concrete piles at interior bent. 		Image: Section of the section of t
g.	 (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? Yes □No If yes, (ii) Avg. length of area to be filled: <u>465 ft</u> (iii) Avg. width of area to be filled: <u>45 ft</u> (iv) Purpose of fill: To construct roadway embankment. 		
4.	GENERAL		
a.	Will the proposed project require the relocation of any existing utility lines? ⊠Yes □No If yes, explain: Water line, power line, fiber optic, copper (telephone). See attached Utility Plans	b.	Will the proposed project require the construction of any temporary detour structures? □Yes ⊠No If yes, explain:
	If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.		

< Form continues on back>

Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)

C.	Will the proposed project require any work channels? □Yes ⊠No	d.	How will excavated or fill material be kept on site and erosion controlled?
	If yes, complete Form DCM-MP-2.		NCDOT Design Standards in Sensitive Watersheds will be implemented during project construction
e.	What type of construction equipment will be used (for example,	f.	Will wetlands be crossed in transporting equipment to project site?
	dragline, backhoe, or hydraulic dredge)?		⊠Yes □No
	Cranes, pile driving equipment, grading equipment, bull dozers, excavators, offroad trucks, and boring machines.		If yes, explain steps that will be taken to avoid or minimize environmental impacts.
			Crane Mats used to reach temporary power lines.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☐Yes ⊠No If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

1/5/2017 Date

B-4598

Project Name

NC Department of Transportation

Applicant Name 11

Applicant Signature

U.S. Department of Homeland Security

United States Coast Guard



431 Crawford Street Portsmouth, VA 23704-5004 Staff Symbol: (dpb) Phone: (757) 398-6587 Fax: (757) 398-6334 Email: <u>Mickey, D.Sanders2@uscg.mil</u> Or <u>CGDFiveBridges@uscg.mil</u>

Mr. Phil S. Harris, III, P.E. North Carolina Department of Transportation Natural Environment Section 1598 Mail Service Center Raleigh, NC 27699-1598



Dear Mr. Harris:

Coast Guard review of your proposed project as provided in your email dated November 17, 2016, is complete.

Based on the documentation provided and our research, it is determined that a Coast Guard bridge permit will not be required for the proposed new bridge construction on S.R. 1324 (Florence Road) across Mason Creek, at Pamlico, NC.

The project will be placed in our Advance Approval category as per Title 33 Code of Federal Regulations Part 115.70. This Advance Approval determination is for the location and structure described above and **is valid for five years from the date of this letter**. If the construction project does not commence within this time period, you must contact this office for reaffirmation of this authorization. Future bridge projects along the same waterway will have to be independently evaluated before they may be considered for placement in the Advance Approval category.

The fact that a Coast Guard bridge permit is not required does not relieve you of the responsibility for compliance with the requirements of any other Federal, State, or local agency who may have jurisdiction over any aspect of the project. Although the project will not require a bridge permit, other areas of Coast Guard jurisdiction apply. The following must be met:

- a. You or your contractor must notify this office at least 30 days in advance of the start of construction and any other work which may be an obstruction to navigation, so we may issue and update the information in our Local Notice to Mariners and monitor the project.
- b. At no time during the project will the waterway be closed to navigation without the prior notification and approval of the Coast Guard.
- c. The lowest portion of the superstructure of the bridge across the waterway should clear the 100-year flood height elevation, if feasible.
- d. In addition, the requirement to display navigational lighting at the aforementioned bridge is hereby waived, as per Title 33 Code of Federal Regulations, Part 118.40(b). This waiver may be rescinded at anytime in the future should nighttime navigation through the proposed bridge be increased to a level determined by the District Commander to warrant lighting.

16590 13 DEC 2016

The National Ocean Service (NOS) of the National Oceanic and Atmosphere Administration (NOAA) is responsible for maintaining the charts of U.S. waters; therefore, they must be notified of this proposed work. You must notify our office and the NOS at the address below upon completion of the activity approved in this letter. Your notification of project completion must include as-built drawings or certification of the following:

- a. Bridge name
- b. Action type (new construction, modification, relocation, conversion (fixed/draw), etc.)
- c. Dates (commenced and completed)
- d. Location (latitude and longitude at bridge center and centerline of channel, statute miles above mouth of waterway, and bridge or causeway orientation or geographic positions of approaches)
- e. Type of bridge (fixed, vertical lift, bascule, suspension, swing, trestle, pontoon, etc.)
- f. Navigation clearances (vertical at mean high water and horizontal) (Moveable – vertical at mean high water in open and closed positions)
- g. Whether or not the bridge is fitted with clearance gauges
- h. Whether or not the bridge has pier protection and/or fender system.
- i. Type of land traffic (highway, railroad, pedestrian, pipeline, etc.)

Mr. Chris Libeau National Ocean Service *N/CS26*, Room 7317 1315 East-West Highway Silver Spring, MD 20910-3282

If you have any further questions, please contact Mr. Mickey Sanders at the above listed address or telephone number.

Sincerely.

HAL R. PITTS Bridge Program Manager By direction of the Commander Fifth Coast Guard District

Copy: Chris Libeau, NOS

CG Sector North Carolina, Waterways Management U. S. Army Corps of Engineers, Wilmington District Lengyel Mitigation Site ONEID 025-001

The Lengyel Site is located in Craven County within the USGS hydrologic unit 03020202 of the Neuse River. NCDOT acquired the 11.9 acre brackish marsh site to mitigate for unavoidable, jurisdictional impacts associated with TIP B-2531. Monitoring requirements were performed from 1999 to 2003 and the site was closed out in 2004. Table 1 shows the final mitigation quantities approved for the site. The site has been placed on the NCDOT On-site Debit Ledger for use within HUC 03020202. Table 2 indicates all mitigation debits that have occurred per regulatory agency approval.

In order to offset 0.09 acres of unavoidable brackish marsh impacts, the Lengyel Mitigation Site will be debited at a 2:1 ratio, totaling 0.18 acres of brackish marsh mitigation.

Table 1. Mitigation Quantities Approved

HUC	Mitigation Type	Starting Amount	Additional Notes
3020202	Brackish Marsh Restoration	7.2	.78@2:1 ratio
3020202	Brackish Marsh Restoration	4.7	Do not debit.

Table 2. Mitigation Debits – Brackish Marsh Restoration

Mitigation Type	Debit Amount	Status	Site TIP	Action ID#	Notes
Brackish Marsh Restoration	1.56	Close Out	B-2531	199401568	
Brackish Marsh Restoration	1.08	Close Out	B-2531 Mod	1994-01568	.46 acres of these impacts were charged to Sawmill
Brackish Marsh Restoration	0.18	Close Out	B-4598		Impacts were 0.09 @ 2:1 ratio

Version 2.06; Released	June 2016)			North C STC	arolina Departmo Highway Stormw DRMWATER MAN FOR NCDOT F	ent of Transportatio vater Program NAGEMENT PLAN PROJECTS	n			
WBS Element:	38426.1.2	TIP No.:	B-4598		County(ies):	Pamlico				
				-	General Project	Information				
WBS Element:		38426.1.2		TIP Number:	B-4598	1	Project	Туре:	Bridge Replac	ement
NCDOT Contact:	-	Paul Atkinson, PE				Contractor / Desig	ner:	TGS Engi	ineers (David B.	Petty, Pl
	Address:	1590 Mail Service	Center				Address:	706 Hillsb	orough Street	
		Raleigh, NC 2769	9-1590					Suite 200		
								Raleigh, N	NC 27603	
	Phone:	919-707-6707					Phone:	919-773-8	3887 (Ext. 104)	
	Email:	patkinson@ncdot	.gov				Email:	dpetty@to	gsengineers.com	
City/Town:			Me	erritt		County(ies):	Pam	lico		
River Basin(s):		Neu	se			CAMA County?	Ye	S		
Wetlands within Pro	oject Limits?	res								
					Project Desc	cription	at anomician d		na sida stiel	
Project Length (lin.	miles or feet):	<u>575 f</u>	eet	Surrounding	g Land Use:	swamp, marsh, lore	ist, cropiand, s	ome rurai		
	• • •			Proposed Proj	ect				EXIS	sting Si
Project Built-Upon /	Area (ac.)	Two 10 wide new	0.4	d maximum and ta fa	ac.		Two Ol noved	0.3	a w/ Olta El wida	ac.
		shoulders and 1' t	o 3' grassed sho	pulders and 3(H):	1(V) grassed side	slopes.	ranging from	about 3(H)	:1(V) to 4(H):1(V).).
Annual Avg Daily Tr	raffic (veh/hr/day):	Design/Future		1326	Year:	2037	Existing:		1065	
(Description of Mini Quality Impacts)	imization of Water	Proposed 110' lon exceeds existing b of the bridge. How bridge is to flow to discharged at min proposed stormwa All wetland impac	ig (2@55') by 36 by about 1' to ma vever, the proposed two proposed d imum practicable ater runoff is disc ts occur within C	'' wide double-spa aintain navigable sed bridge will ha Irop inlets, locate e slopes, yielding charged as far av AMA wetlands.	an bridge to replac clearance. Storm ve no direct disch d at the approach minimum velociti vay from the stream	ce existing 61' long (2 water runoff on the e arge into the water a on each side of the es and diffused with m and at lowest velo	2@30.5') by 26 xisting bridge of s no deck drai pridge then to riprap pads at cities as practi	5' wide dou discharges ns will be i junction bc pipe outlet cable.	ble-span bridge. directly into the v nstalled. The ma oxes and outlet 10 is, which the exis	The pro water the ajority of 0'+ outsi ting drai
					Waterbody Inf	formation				
Surface Water Body	y (1):		Mason	Creek		NCDWR Stream In	dex No.:			27
NCDWR Surface Wa	ater Classification fo	or Water Body		Primary Classi	fication: Classification:	Class S Swamp Wate	SC ers (Sw)		(HQW)	
Other Stream Class	ification:	Primary Nur	sery Areas	Areas of Enviro	nmental Concern		(=)		(
Impairments:		Nor	ne							
Aquatic T&E Specie	s?	Yes	Comments	Construction ac	tivities to adhere t	o Guidelines for Avo	iding Impacts	to the Wes	t Indian Manatee	 }
NRTR Stream ID		Mason Creek	Commonito.	Jener dealon do			and an paolo	Buffer R	iles in Effect:	
Project Includes Bri	idge Spanning Wate	r Body?	Yes	Deck Drains Di	scharge Over Bu	uffer?	No	Dissinate	or Pads Provider	d in Buf
Deck Draine Diecha	inge Over Water Rod	v?	No	(If ves. prov	ide justification in	the General Project	Narrative)	(If ves	describe in the C	General
(If ves provi	ide justification in the	<u>J</u> . General Project Na	arrative)	(j. co, p. ov				() 55,	Gei	neral Pro
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stormwa	ter runoff from	m the proposed
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mage due	es not benefit	IIOIII. All
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			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Tei
Site No.	Station (From/To)	Structure Size / Type	Fill In Wetlands (ac)	Fill In Wetlands (ac)	in Wetlands (ac)	Clearing in Wetlands (ac)	in Wetlands (ac)	SW impacts (ac)	S imp (a
1	14+46 to 18+64	Roadwav/Bridge	0.09						
1	15+94 RT to 16+96 RT	Roadway/Bridge			< 0.01				
1	14+35 to 18+90	Roadway/Bridge					0.07		
1	16+10 RT,16+76 LT	Excavation						< 0.01	
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TOTAL 0 *				1					<u> </u>

*Rounded totals are sum of actual impacts

NOTES:

Wetland impacts listed in table above are all in CAMA Wetlands.

0.01 acres of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

<0.01 acres of Permanent SW impacts for interior bent at 16+43.

URFA	CE WATER IM Existing	IPACTS Existing	
mp.	Channel	Channel	Natural
Ŵ	Impacts	Impacts	Stream
acts	Permanent	Temp.	Design
ac)	(ft)	(ft)	(ft)
,			
	0	0	0
	Ū	0	U
NC E	DEPARTMENT (OF TRANSPOI	RTATION
	DIVISION C	OF HIGHWAYS	5
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	PAN	MLICO	
	PROJECT: 38	426.1.2 (B-45	98)
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			BU	FFER		CTS S	UMM	ARY			
			IMPACT								
				TYPE		AL	LOWABI	LE		MITIGABI	LE
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)
1	Bridge	L 15+86 to 17+00		Х		724	98	822			
1	Roadway	L 14+83 to 17+58	х			1802	1083	2885			
TOTAL:						2526.0	1181.0	3707.0	0.0	0.0	0.0

NOTES:

N.C. DEPT. O DIVISION PAML PROJECT

	BUFFER REPLACEMENT			
OTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)		
0.0				
		ATION		
PAMLIC DJECT: 3	CO COUNTY 8426.1.2 (B-4	598)		

		WETLAN	WETLANDS IN BUFFER IMPACTS SUMMARY					
		WETL BUF	ANDS IN FERS					
SITE NO.	STATION (FROM/TO)	ZONE 1 (ft ²)	ZONE 2 (ft ²)					
1	L 14+83 to 17+58	1983	921					
TOTAL:		1983	921					

NOTES:

N.C. DEP DIVI P PROJE

> 2/25/2017 SHEET 5 OF 5

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

PAMLICO COUNTY PROJECT: 38426.1.2 (B-4598)

B-4598- ENVIROMENTAL NARRATIVE

Utility Owners

Water- Al Gerard, Field Operations Manager Pamlico County Water System Pamlico County, N.C. (252)745-5453 a gerard@yahoo.com

Century Link-Phone- Mitch Averitte 311 Hancock St. New Bern NC 28560 <u>252-636-6620</u>. Mitchell.Averitte@centurylink.com>

Power- John Marsh Senior Staking Technician Tideland Electric Membership Corporation P O Box 38, Grantsboro, NC 28529 252-637-8314 / <u>1-800-637-1079 x4324</u> johnmarsh@tidelandemc.com www.tidelandemc.com

General Utility Relocation:

All utility lines inside the project limits currently within the construction limits will be adjusted or relocated as necessary before the project Let Date.

Power

Tideland EMC- John Marsh stated there are two poles on the east side of the bridge that will be moved back 15' to accommodate crane clearance. In addition one pole to the north of these poles will be moved to eliminate pull and the need for a side guy. A 15' wide TUE will be needed from the center of the poles on each side. It is recommended that the trees cut for clearing be left where they fall as there will be no other work in this area by any other contractors. This would leave a minimum impact on the wetland areas. All clearing will be with non-mechanized means. The existing poles will be left in place. At the completion of the bridge replacement the lines can be transferred back to the existing poles, as the proposed poles will be unreachable by a pole truck should an outage or maintenance be required.

All pole placement inside the wetland areas will be accomplished with the use of matts. There will be minimum impact to environmentally sensitive areas due to the non-mechanized clearing and the use of matts.

Telephone

Century Link/Embarq- Mitch Averitte, stated that Century Link/Embarq has facilities in conflict. Relocation of the telephone facilities will be accomplished with a 4" directional drill. The proposed cables will be placed inside of the 4" plastic pipe pulled back with the directional drill. There are (2) buried copper cables on the right side of SR1324 (Florence Road) and (1) buried copper on the left side of SR1324 (Florence Road). This one buried copper crosses -L- at station 15+75 and transitions to an aerial crossing. This aerial crossing and all buried cables inside of the project limits will be replaced with (2) copper and (1) fiber optic cable. The relocated cables will be placed/relocated by directional drill. The bore entry will begin at station 13+75 RT-L to 19+50 RT-L. As outlined in the bore profile the bore will be a minimum of 15' below the stream bottom of Mason Creek.

There will be no impact to environmentally sensitive areas due to the buried cable relocation because all trenching will take place in the roadway fill. All telephone lines constructed in wetlands, streams, and buffer zones will be by directional drill.

Water

Pamlico County Water- Al Gerard-, it has been determined there will be a conflict with the water line. Pamlico County Water requested the NCDOT handle the design, specifications, surveying, construction, inspection, ie., and all permitting required to relocate the existing water main located at the waterway crossing on Florence Road in Pamlico County.

An existing 6" water line on the left side of SR1324 (Florence Road) will be replaced in kind by a new section of 6" water line. The relocated water line will be constructed by directional drill. The directional drill will begin approximately 25' after the start of the project in the roadway fill and end approximately 25' before the end of the project in the roadway fill. This bore will be a minimum of 10' below the stream bottom of Mason's Creek.

There will be no impact to environmentally sensitive areas due to the water line because all trenching will take place in the roadway fill. All water line constructed in wetlands, streams, and buffer zones will be by directional drill. Cutoff valves will be provided on each side of the stream.

Summary of Environmental Impacts

Based on the preliminary relocation plans provided by the power and telephone companies, there appears to be minimum impacts. The proposed directional bores will enter and exit as such with minimum impacts. Silt fence and all proper erosion control measures will be required and implemented. Any proposed telephone splice pits will be outside of the wetland boundaries. Hand clearing is typically expected in the wetlands and required for most buffer impacts. In addition mats can be placed as well to further minimize impacts.

				\\/=-		PERMIT IMP	PACT SUM	MARY
Site	Station	Structure	Permanent Fill In	Temp. Fill In	Excavation	Mechanized Clearing	Hand Clearing in	Permanent SW
No.	(From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	in Wetlands (ac)	Wetlands (ac)	impacts (ac)
1	L 13+68 to 20+15	Overhead Power Line					0.13	
TOTALS*							0.13	

*Rounded totals are sum of actual impacts

NOTES:

Wetland Impacts listed in table above are total quantities for both CAMA & 404 Wetlands. 0.09 acres of Hand Clearing are in CAMA Wetlands.

SURFA			
Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
		0	0
	0	U	U

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 2/24/2017 PAMLICO PROJECT: 38426.1.2 (B-4598)

SHEET

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	BUFFER IMPACTS SUMMARY											
							IMPAC	Γ				
				TYPE	TYPE		ALLOWABLE EXEMPT			MITIGABLE		
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	
1	Overhead Power Line	L 15+19 to 17+30	х			146	750	896				
										, ,		
TOTAL:						146.0	750.0	896.0	0.0	0.0	0.0	

NOTES:

All Zone 1 and Zone 2 impacts are due to overhead power line relocations which are exempt impacts.

N.C. DEPT. C DIVISIO PAML PROJECT:

	BUFFER REPLACEMENT					
OTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)				
0.0						
PAMLICO COUNTY DJECT: 38426.1.2 (B-4598)						

	WETLANDS IN BUFFER IMPACTS SUMMAR						
		WETLANDS IN BUFFERS					
SITE NO.	STATION (FROM/TO)	ZONE 1 (ft ²)	ZONE 2 (ft ²)				
1	L 16+86 to 17+30	105	346				
ΤΟΤΑΙ :		105	346				

NOTES:

All Zone 1 and Zone 2 impacts are due to overhead power line relocations which are exempt impacts.

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PAMLICO COUNTY PROJECT: 38426.1.2 (B-4598)

2/24/2017 SHEET 5 OF 5