



**DEPARTMENT OF THE ARMY**  
**WILMINGTON DISTRICT, CORPS OF ENGINEERS**  
**69 DARLINGTON AVENUE**  
**WILMINGTON, NORTH CAROLINA 28403-1343**

April 14, 2022

Regulatory Division  
Action ID No. SAW-1993-02466

North Carolina Department of Transportation  
Environmental Analysis Unit  
Mr. Phillip S. Harris III, Unit Head  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Dear Mr. Harris,

Reference the Department of the Army (DA) individual permit (IP) Action SAW-1993-02466 issued April 18, 2019, to construct a new US 70 bypass of Havelock, North Carolina in Craven County, North Carolina. Also reference the permit modification request dated March 3, 2022, affecting areas of the above referenced project. Several design changes have been made to the project and the modification request details the changes by narrative and with revised plan sheets.

The modification requests changes in impacts to three sites along the work corridor and result in additional permanent wetland impacts of 0.28 acres. The impacts are located at the following locations:

Site 3: (MSC Walls). The fill section needs to be extended further due to the elevation of the MSE wall. The slope will have to extend further to match the existing grade. Fill amounts increase 0.11 ac (change of 0.10 ac in the page summary), and mechanized clearing increase 0.01 ac.

Site 5: Additional excavation is needed for the footers. Hand clearing and mechanized clearing will need to be changed to excavation in wetlands. The contractor needs to install an RR crossing for construction and will require temporary fill in wetlands. Temporary fill will increase 0.13 ac., excavation will increase 0.11 ac., mechanized clearing will increase 0.04 ac, and hand clearing will decrease 0.08 ac.

Site 35B: Excavation is needed in wetlands to allow for positive drainage for an adjacent pipe. Therefore, excavation increases 0.01 ac., and mechanized clearing increase <0.01 ac. (no change in summary sheet total).

Total proposed changes to permanent and temporary wetland impacts across all three sites are as follows: permanent fill increases 0.11 ac., mechanized clearing increases 0.05 ac., excavation increases 0.12 ac., temporary fill increases 0.13 ac., and hand clearing decreases 0.08 ac.

These modification requests were discussed and coordinated with the appropriate state and federal agencies at several on-site meetings. This coordination revealed no objections to this modification request. The proposed modifications for R-1015 as detailed above are hereby modified in accordance with the specific work activities described and depicted on the plan sheets, drawings and descriptions enclosed with the permit modification request package dated March 3, 2022, and with the additional Special Conditions described below.

A revised impact summary sheet details wetland impacts on the R-1015 Havelock Bypass project at Sites 3, 5 and 35B as follows in Table 1:

**Table 1 - Wetland Impacts at Sites 3, 5, and 35B in the Neuse Basin approved with this Modification**

Site	Wetland Type	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
3	non-riparian	26.14	--	0.32	3.08	--	29.54
5	non-riparian	0.10	0.13	0.17	0.11	--	0.51
35B	non-riparian	0.71	--	0.01	0.11	--	0.83
<b>Total</b>		26.95	0.13	0.50	3.30	--	30.88
<b>Difference</b>		+0.11*	+0.13	+0.12*	+0.05*	-0.08	+0.33

\*additional permanent wetland impacts = 0.28 acres

Compensatory mitigation for the proposed additional 0.28 acre of non-riparian wetland impacts will be obtained from the N.C. Division of Mitigation Services as detailed in a revised impact summary sheet and represents the most recent modifications as follows in Table 2:

**Table 2 – Current Permitted Impacts and Associated Mitigation Requirements provided by DMS (based on issued permits) and Revised Anticipated Impacts (based on mitigation request)**

<b>Impact Type</b>	<b>Total Permitted Impacts (feet / acre / sq ft)</b>	<b>Mitigation Provided by DMS per Issued Permits (Credits)</b>	<b>Additional Impact (for approval)</b>	<b>Revised Total Impacts*</b>
Stream (warm)	2,870.000	5,740.000	0.000	2,870.000
Riparian Wetland	15.820	31.640	0.010	15.830
Non-Riparian Wetland	98.440	196.210	0.280	98.720
Riparian Buffer	89,824.000	210,473.000	0.000	89,824.000

\*Some of the additional stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. DMS will provide the amount of mitigation as determined by the regulatory agencies.

It is understood that all conditions of the original permit and applicable modifications remain valid including the expiration date. In addition, the permittee will comply with the additional Special Permit Conditions as follows:

Permit Modification A.) All work authorized by this permit modification must be performed in strict compliance with the submitted work plans, dated March 3, 2022, which are part of this permit. Any modification to the permit plans must be approved by US Army Corps of Engineers (Corps) prior to implementation.

Permit Modification B.) The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit, and any authorized modifications. A copy of this permit, and any authorized modifications, including all conditions, shall be available at the project site during construction and maintenance of this project.

Permit Modification C.) To compensate for impacts associated with this permit modification, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any

special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

Questions regarding this correspondence may be directed to Tom Steffens, NCDOT Coordinator/Regulatory Project Manager at the Washington Regulatory Field Office, telephone (910) 251-4615.

FOR THE DISTRICT COMMANDER

Handwritten signature of Monte Matthews in black ink.

Date:  
2022.04.14  
14:42:27 -04'00'

Monte Matthews  
Lead Project Manager  
Wilmington District

E-cc:

Garcy Ward/NCDWR  
Stephen Lane/NCDCM  
Cathy Brittingham/NCDCM  
Chris Rivenbark/NCDOT NEU  
Gordon Cashin/NCDOT NEU  
Heather Lane/NCDOT Division 2  
Jay Johnson/NCDOT Division 2  
Brad McMannen/NCDOT Division 2

ROY COOPER

*Governor*

ELIZABETH S. BISER

*Secretary*

RICHARD E. ROGERS, JR.

*Director*



April 1, 2022

Mr. Philip S. Harris, III, P.E., CPM  
Natural Environment Section Head  
Project Development and Environmental Analysis  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina, 27699-1598

Subject: Modification of 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and Neuse Buffer Authorization with ADDITIONAL CONDITIONS for the proposed construction of the Havelock Bypass in Craven County, TIP R-1015.  
NCDWR Project No. 20181598 v.7

Dear Mr. Harris:

Attached hereto is a modification of Certification No. WQC004178 issued to The North Carolina Department of Transportation (NCDOT) dated April 3, 2019.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

DocuSigned by:

*Amy Chapman*

9C9886312DCD474...

Richard E. Rogers, Jr., Director  
Division of Water Resources

cc:

Tom Steffens, US Army Corps of Engineers, Washington Field Office  
Jay Johnson, Division 2 Environmental Officer  
Chris Rivenbark, NC Department of Transportation  
Stephen Lane, NC Division of Coastal Management  
Cathy Brittingham, NC Division of Coastal Management  
Beth Harmon, Division of Mitigation Services  
Garcy Ward, NC Division of Water Resources, Washington Regional Office  
File Copy



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617  
919.707.9000

**Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act  
and Neuse Buffer Authorization with ADDITIONAL CONDITIONS**

**THIS CERTIFICATION** is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500 and 15A NCAC 2B.0714. This certification authorizes the NCDOT to permanently impact an additional **0.28 acres** of wetlands in Craven County. The project shall be constructed pursuant to the revised modification request dated received March 4, 2022. The authorized impacts are as described below:

**Previously approved Wetland Impacts at Sites 3, 5, and 35B in the Neuse River Basin**

Site	Wetland Type	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
3	non-riparian	26.03	--	0.32	3.07	--	29.42
5	non-riparian	0.10	--	0.06	0.07	0.08	0.31
35B	non-riparian	0.71	--	--	0.11	--	0.82
<b>Total</b>		26.84	--	0.38	3.25	0.08	30.55

**Wetland Impacts at Sites 3, 5, and 35B in the Neuse Basin approved with this Modification**

Site	Wetland Type	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
3	non-riparian	26.14	--	0.32	3.08	--	29.54
5	non-riparian	0.10	0.13	0.17	0.11	--	0.51
35B	non-riparian	0.71	--	0.01	0.11	--	0.83
<b>Total</b>		26.95	0.13	0.50	3.30	--	30.88
<b>Difference</b>		+0.11*	+0.13	+0.12*	+0.05*	-0.08	+0.33

\*additional permanent wetland impacts = 0.28 acres

The application provides adequate assurance that the discharge of fill material into wetlands and waters of the Neuse River Basin in conjunction with the proposed activity will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received March 4, 2022. Should your project change, you are required to notify NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). Additional buffer impacts may require compensatory mitigation as described in 15A NCAC 2B .0611(b)(2).

For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.



This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.

**Condition(s) of Certification:**

1. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions associated with the original Water Quality Certification dated April 3, 2019 and subsequent modifications dated May 1, 2020, January 8, 2021, April 22, 2021, July 9, 2021, and October 11, 2021 still apply except where superseded by this certification.
2. This modification results in an additional 0.28 acres of permanent wetland impacts. Therefore, compensatory mitigation for an additional 0.28 acres of non-riparian wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated March 2, 2022 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010.
3. Due to the possibility that compaction and/or other site alterations might prevent the temporary wetland impact area from re-attaining jurisdictional wetland status; the permittee shall provide an update on the wetland areas temporarily impacted at Site 5. This update shall be conducted two growing seasons after completion of the work at Site 5 and shall consist of photographs and a brief report on the progress of the areas in re-attaining wetland jurisdictional status. Upon submission of this update to the NCDWR, the permittee shall schedule an agency field meeting with the NCDWR to determine if the wetland areas temporarily impacted by this project have re-attained jurisdictional wetland status. If the wetland areas temporarily impacted by this project have not re-attained jurisdictional wetland status, the NCDWR shall determine if compensatory wetland mitigation is to be required. [15A NCAC 02H.0506(c)(2)]
4. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.



This approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) within sixty (60) calendar days. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000.

A party filing a Petition must serve a copy of the Petition on:

William F. Lane, General Counsel  
Department of Environmental Quality  
1601 Mail Service Center  
Raleigh, NC 27699-1601

If the party filing the Petition is not the permittee, then the party must also serve the recipient of the Certification in accordance with N.C.G.S 150B-23(a).

This the 1<sup>st</sup> day of April, 2022

DIVISION OF WATER RESOURCES

DocuSigned by:  
*Amy Chapman*

9C9886312DCD474...

Richard E. Rogers, Jr., Director

WQC No. 004121

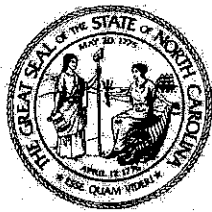


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BRAXTON DAVIS  
Director



NORTH CAROLINA  
*Environmental Quality*

April 13, 2022

Mr. Philip Harris, Unit Head  
Environmental Analysis Unit  
N.C. Department of Transportation  
1598 Mail Service Center  
Raleigh, NC 27699-1598

**SUBJECT:** CD 19-017 - Supplemental Consistency Concurrence, Havelock  
Bypass in Craven County, TIP No. R-1015.

Dear Mr. Harris:

The N.C. Division of Coastal Management (DCM) received a supplemental consistency submittal from the N.C. Department of Transportation (NCDOT) dated March 7, 2022, for TIP No. R-1015, Havelock Bypass. The supplemental consistency submittal included a cover letter, revised permit drawings (3) dated March 4, 2022, updated impact summary tables, and a N.C. Division of Mitigation Services (DMS) acceptance letter dated March 2, 2022. The supplemental consistency submittal is regarding changes to the project design at Site 3, Site 5, and Site 35B. The proposed activities will result in the following: an increase of 0.28 acres of permanent impacts to wetlands (0.11 acres due to permanent fill; 0.05 acres due to mechanized clearing; and 0.12 acres due to excavation); an increase of 0.13 acres of wetland impacts due to temporary fill; and a decrease of 0.08 acres due to hand clearing.

North Carolina's coastal zone management program consists of, but is not limited to, the Coastal Area Management Act, the State's Dredge and Fill Law, Chapter 7 of Title 15A of North Carolina's Administrative Code, and the land use plan(s) of the county and/or local municipalities in which the proposed project is located. It is the objective of DCM to manage the State's coastal resources to ensure that proposed Federal activities would be compatible with safeguarding and perpetuating the biological, social, economic and aesthetic values of the State's coastal resources.

DCM circulated the supplemental consistency certification for TIP No. R-1015 to state agencies that would have a regulatory or resource interest in the proposed development. No comments were received asserting that the proposed project would be inconsistent with North Carolina's coastal management program. DCM reviewed the information submitted by NCDOT, and the comments received from state agencies, pursuant to the management objectives and enforceable policies of Subchapters 7H and 7M of Chapter 7 in Title 15A of the North Carolina Administrative Code.



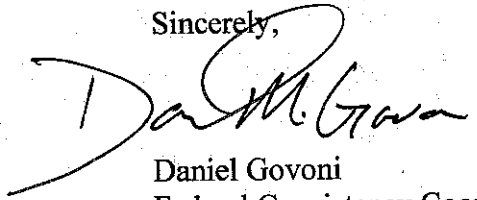
North Carolina Department of Environmental Quality | Division of Coastal Management  
Morehead City Office | 400 Commerce Avenue | Morehead City, North Carolina 28557  
252.808.2808

DCM concurs that the proposed project is consistent, to the maximum extent practicable, with North Carolina's approved coastal management program, with the following conditions:

1. The project shall be implemented in accordance with the Modification of the 401 Water Quality Certification No. WQC004178 which was issued by the N.C. Division of Water Resources (DWR) on April 1, 2022 (NCDWR Project No. 20181598 v. 7).

Should the proposed action be modified further, a revised consistency determination could be necessary. This might take the form of either a supplemental consistency determination pursuant to 15 CFR 930.46, or a new consistency determination pursuant to 15 CFR 930.36. Likewise, if further project assessments reveal environmental effects not previously considered, a supplemental consistency certification may be required. If you have any questions or concerns, please contact Cathy Brittingham via e-mail at [cathy.brittingham@ncdenr.gov](mailto:cathy.brittingham@ncdenr.gov) or Stephen Lane via e-mail at [Stephen.Lane@ncdenr.gov](mailto:Stephen.Lane@ncdenr.gov). Thank you for your consideration of the North Carolina coastal management program.

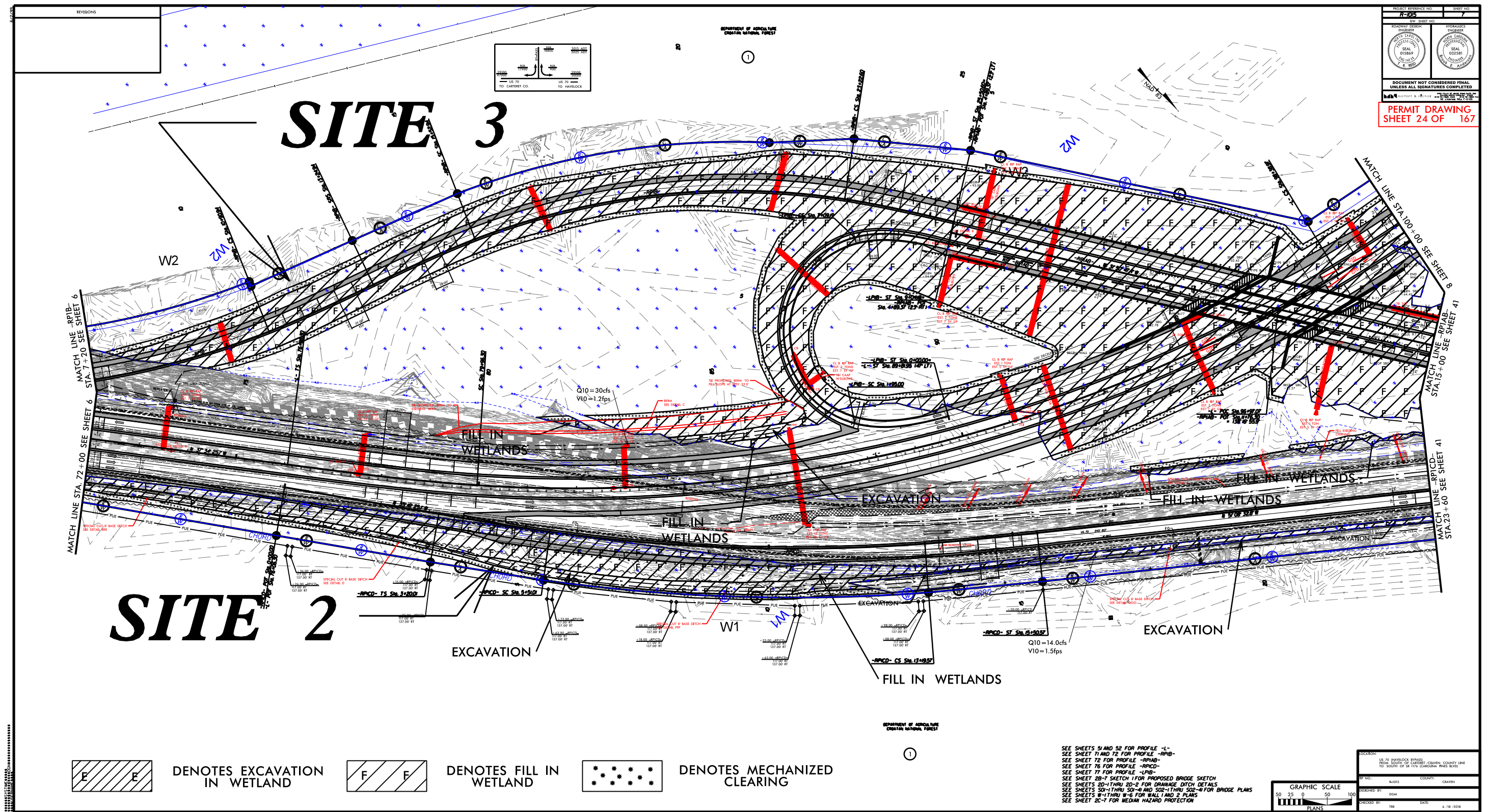
Sincerely,



Daniel Govoni  
Federal Consistency Coordinator  
N.C. Division of Coastal Management

cc: Tom Steffens, USACE  
Garcy Ward, DWR  
Beth Harmon, DMS  
Stephen Lane, DCM  
Clif Whitfield, PWSS

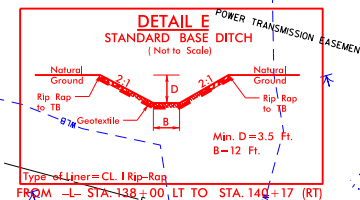




CROATIAN NATIONAL FOREST

CROATIAN NATIONAL FOREST

***SITE 6***



50' 0' 50' 100' 150'

GRAPHIC SCALE

2/18/2022  
mgberry  
R:\Hydraulics\PERMITS Environmental\Drawings\Wetland & Stream\r-1015 Hyd prm wet psh10.dgn

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 015869 T. R. RED	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 032581 B. R. ANDERSON

moffatt & nichol  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919) 781-4400 VOICE (919) 781-4889 FAX  
NC License No. F-0105

PERMIT DRAWING  
SHEET 120 OF 167

**SITE 35B**

**SITE 36A SITE 36B**

EXCAVATION IN WETLANDS

MATCH LINE STA. 450 + 00 SEE SHEET 31

MATCH LINE STA. 464 + 00 SEE SHEET 33

CL B RIP RAP  
EST. 1 TONS  
EST. 5 SY GF

FS  
2GI-D SEE DETAIL B

MEDIAN 'V' DITCH  
SEE DETAIL NN

N 29° 51' 36.9" W

CL 'I' RIP RAP  
EST. 24 TONS  
EST. 50 SY GF

CL 'B' RIP RAP  
EST. 1 TON  
EST. 5 SY GF

15" RCP-IV

FS  
SEE DETAIL B

CL 'B' RIP RAP  
EST. 1 TON  
EST. 5 SY GF

CL 'B' RIP RAP  
EST. 1 TON  
EST. 5 SY GF

FS  
SEE DETAIL B

CL 'B' RIP RAP  
EST. 1 TON  
EST. 5 SY GF

FS  
SEE DETAIL B

CL 'B' RIP RAP  
EST. 1 TON  
EST. 5 SY GF

BOLING FAMILY INVESTMENTS, L.L.C., et al

CLYDE O. BELANGIA, JR., et al

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

WETLAND EXCAVATION CLYDE O. BELANGIA, JR., et al

DENOTES MECHANIZED  
CLEARING

DENOTES FILL IN  
WETLAND

50' 0' 50' 100' 150'  
GRAPHIC SCALE

SEE SHEETS 65 FOR PROFILE -L-  
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS

REVISIONS

2/18/2022  
mgberry  
R:\Hydraulics\PERMITS\_Environmental\Drawings\Wetland & Stream\r-1015\_Hyd\_prm\_wet\_psh32.dgn

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	42+12 TO 54+15 -L- RT	ROADWAY FILL	0.59		0.32	0.25						
2	57+70 TO 76+06 -L- RT	ROADWAY FILL	2.68		1.65	0.73						
	0+00 TO 33+68 -RP1CD- RT											
3	70+94 TO 122+68 -L- RT/LT	ROADWAY FILL	26.14		0.32	3.08						
	22+61 TO 29+63 -RP1AB- LT											
4	127+97 TO 132+42 -L- LT/RT	ROADWAY FILL	1.53			0.09						
5	136+88 TO 140+23 -L- LT/RT	ROADWAY FILL	0.10	0.13	0.17	0.11						
6	138+19 TO 149+15 -L- LT/RT	ROADWAY FILL	5.17			0.37						
7	154+60 TO 163+94 -L- LT/RT	ROADWAY FILL	2.52			0.32						
8	167+89 TO 168+21 -L- LT/RT	ROADWAY FILL	0.02			< 0.01						
9	170+05 TO 197+19 -L- LT/RT	Dual Bridges; 12@ 135', 72" MBT	4.90	0.03	0.03	0.65	3.92					
10	197+45 TO 210+28 -L- LT/RT	ROADWAY FILL	6.69			0.55						
11	211+31 TO 218+97 -L- LT/RT	ROADWAY FILL	2.82			0.21						
12	218+39 TO 224+77 -L- LT/RT	ROADWAY FILL	2.46		< 0.01	0.16						
13	229+73 TO 238+69 -L- LT/RT	ROADWAY FILL	6.85			0.37						
14	7+87 TO 11+18 -Y3RPB- LT/RT	72" RCP, BURIED	0.83			0.16		0.05	< 0.01	337.9	56.1855	
15	12+60 TO 13+72 -Y3RPB- LT/RT	ROADWAY FILL	0.32			0.03						
16	237+79 TO 244+33 -L- LT/RT	72" RCP, BURIED 1'	2.42			0.22		0.03	< 0.01	200.9	58.8936	
17	52+61 TO 53+18 -Y3DET- LT/RT	72" RCP, BURIED 1'	0.04		0.01	0.01		0.03	0.02	129.7	88.99	
17A	52+61 TO 53+18 -Y3DET- LT/RT	60" TEMP PIPE		0.05			0.01					
18	20+55 TO 24+91 -Y3RPD- LT/RT	ROADWAY FILL	0.98		0.02	0.10						
18A	55+30 TO 57+16-Y3DET- LT/RT	TEMP DETOUR		0.15			0.03					
19	16+94 TO 17+92 -Y3RPD- LT/RT	84" RCP, BURIED 1'	0.09			0.05		0.06	< 0.01	261.2	44.1	
TOTALS*:			67.16	0.36	2.51	7.47	3.95	0.16	0.04	930	248	0

\*Rounded totals are sum of actual impacts

NOTES:  
Bridge Impacts at Site 9: 0.02 acres for Temporary Bents, <0.01 acres for all permanent bents.

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
2/18/2022  
CRAVEN COUNTY  
R-1015  
34360.1.2

revised 2016 09 09

SHEET 165 OF 167

WETLAND AND SURACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site 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)	Natural Stream Design (ft)
20	57+34 TO 62+48 -Y3- RT	ROADWAY FILL	1.46		0.10	0.18						
21	58+29 TO 63+51 -Y3- RT	ROADWAY FILL	0.56		0.21	0.08						
21A	58+89 TO 64+03Y3DET- LT/RT	TEMP DETOUR		0.25	0.11		0.12					
22	267+83 TO 273+90 -L- LT/RT	84" RCP, BURIED 1'	0.86			0.12		0.05	0.01	583.6	61.1099	
23	280+57 TO 293+27 -L- LT/RT	Dual Bridge; 7 @ 135', 72" MBT	1.03			0.15	3.05					
24	308+19 TO 314+60 -L- LT/RT	42" RCP	0.74		0.04	0.06						
25A	328+41 TO 336+80 -L- LT/RT	2@ 72" RCP, BURIED 1'	1.80		0.10	0.12						
25B	325+13 TO 325+48 -L- RT	ROADWAY FILL	< 0.01			< 0.01						
26	337+97 TO 342+81 -L- RT	72" RCP, BURRIED 1'	0.47		< 0.01		0.11					
27	340+63 TO 344+93 -L- LT	72" RCP, BURRIED 1'	0.75		0.08		0.05					
28A	348+96 TO 349+65 -L- RT	ROADWAY FILL	0.01				0.02					
28B	351+33 TO 352+19 -L- RT	ROADWAY FILL	< 0.01				0.02					
29	355+33 TO 357+51 -L- LT	ROADWAY FILL	0.03		0.07		0.04					
30	355+83 TO 357+47 -L- RT	ROADWAY FILL	0.27				0.04					
31	373+16 TO 380+23 -L- LT/RT	ROADWAY FILL	2.22		0.07		0.32					
32	392+99 TO 399+33 -L- LT/RT	ROADWAY FILL	0.56			0.15						
33	408+22 TO 408+87 -L- LT	ROADWAY FILL	< 0.01			0.01						
34	409+25 TO 409+75 -L- RT	ROADWAY FILL	0.18			< 0.01						
35A	432+62 TO 449+72 -L- LT/RT	ROADWAY FILL	5.49			0.77						
35B	450+94 TO 454+47 -L- LT/RT	ROADWAY FILL	0.71		0.01	0.11						
36A	456+65 TO 461+70 -L- LT/RT	84" RCP, BURIED 1'	0.79			0.15						
36B	462+57 TO 464+60 -L- LT/RT	ROADWAY FILL	0.50		0.02	0.05						
37	468+85 TO 486+94 -L- LT/RT	ROADWAY FILL	3.43		0.01	0.50						
SUB TOTALS THIS SHEET*:			21.89	0.25	0.81	2.47	3.77	0.05	0.01	584	61	0
*Rounded totals are sum of actual impacts												
NOTES: Bridge Impacts at Site 23: 0.04 acres for Temporary Bents, <0.01 acres for all permanent bents.												
								NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 02/18/2022 CRAVEN COUNTY R-1015 34360.1.2				
Revised 2016 09 09								SHEET	166	OF	167	

