



Pre-Construction Notification (PCN) Form

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

September 29, 2018 Ver 3

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

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

Below is a link to the online help file.

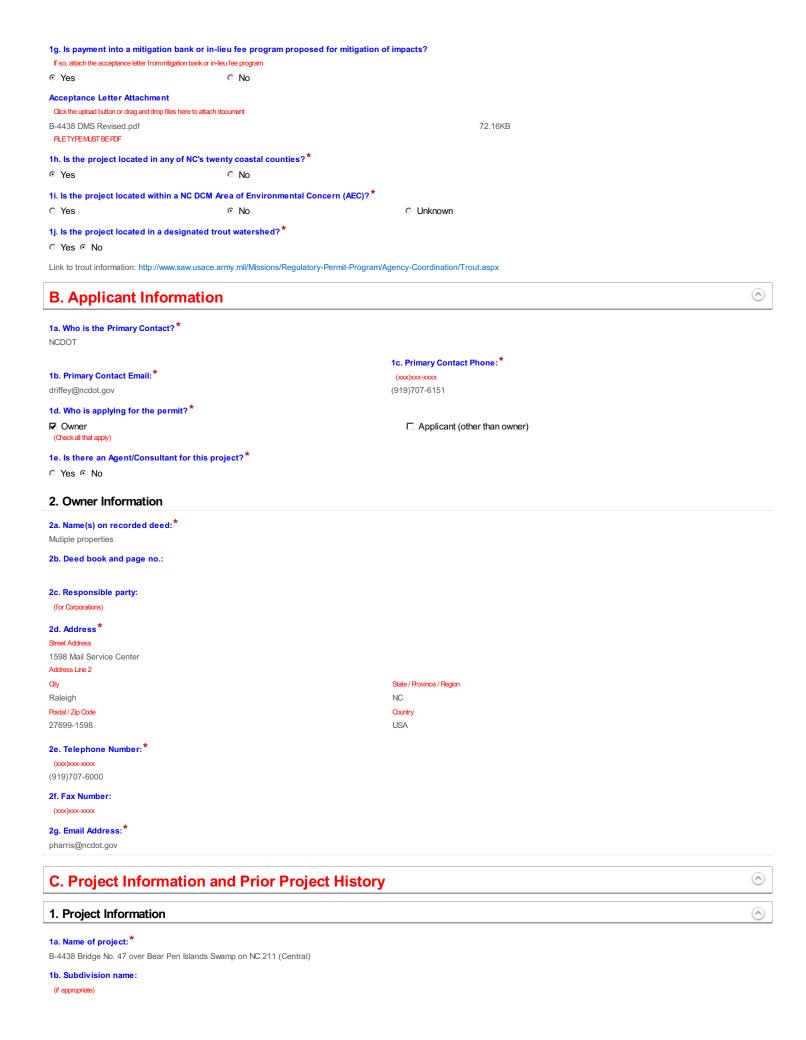
1f. Is this an after-the-fact permit application?*

O Yes

⊙ No

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:*	
Brunswick	
Is this project a public transportation project?*	
⊙ Yes ○ No	
This is any publicly funded by municipal, state or federal funds road, rail, airport tra	insportation project.
Is this a NCDOT Project?* • Yes • No	
(NCDOT only) T.I.P. or state project number:	
B-4438	
WBS#*	
38365.1.2 (for NCDOT use only)	
1a. Type(s) of approval sought from the Corps:*	
Section 404 Permit (wetlands, streams and waters, Clea	an Water Act)
☐ Section 10 Permit (navigable waters, tidal waters, Rivers	rs and Harbors Act)
1b. What type(s) of permit(s) do you wish to seek authoriza	ation?*
☐ Nationwide Permit (NWP) ☐ Regional General Permit (RGP)	
Standard (IP)	
	t process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that 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	s? *
⊙ Yes ○ No	
Regional General Permit (RGP) Number:	198200031 - NCDOT Bridges, Widening Projects 2015
RGP Numbers (for multiple RGPS):	
List all RGP 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 ☐ Individual Permit	☐ Riparian Buffer Authorization
1e. Is this notification solely for the record because writte	en approval is not required?
	*
For the record only for DWR 401 Certification:	© Yes ⊚ No
For the record only for Corps Permit:	○ Yes ⊙ No
• • • • • • • • • • • • • • • • • • • •	



1c. Nearest municipality / town: *

Bolivia

2. Project Identification

(^)

2a. Property Identification Number:

(tax PN or parcel ID) (in acres)

2c. Project Address

Street Address

Address Line 2

Otty 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.)

2b. Property size:

Latitude:* **Longitude:*** 34.140887 -78.32502

3. Surface Waters

ex: 34.208504

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

Bear Pen Islands Swamp

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

C: Sw

Surface Water Lookup

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

Lumber

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

30402060401

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:

-77.796371

Land use surrounding the bridge consists of agriculture, Juniper Creek Game Lands, and forestland. Existing conditions are the same as land use.

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

C Yes € No C 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:

1.8

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

(intermittent and perennial)

226

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

Replacement of Bridge No. 47 that was built in 1954 and is structurally deficient and functionally obsolete.

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

The project involves replacement of existing Bridge No. 47, a 53-foot long bridge, with a 105-foot bridge. The new bridge will have 12-foot travel lanes in each direction and 3-foot shoulders on each side. The new bridge will be placed east of the existing bridge. Traffic will be maintained on the existing bridge. 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

B4438_Permit_Drawings_20181108.pdf

3.6MB

1.86MB

B-4438 Brunswick Roadway Plans.pdf File type must be pdf

5. Jurisdictional Determinations

5. Our is dictional Determination	J113		
5a. Have the wetlands or streams been de	elineated on the property or proposed impact areas?*		
⊙ Yes	O No	O Unknown	
Comments:			
5b. If the Corps made a jurisdictional dete	rmination, what type of determination was made?*		
Preliminary Approved Not Verifie	ed C Unknown C N/A		
Corps AID Number:			
Example: SAW-2017-99999			
SAW -2015-000954			
5c. If 5a is yes, who delineated the jurisdic	ctional areas?		
Name (if known):	Adam Efrid		
Agency/Consultant Company:	Atkins Environmental		
Other:			
5d. List the dates of the Corp jurisdiction May 4, 2018	determination or State determination if a determination was mad	e by the Corps or DWR.	
5d1. Jurisdictional determination upload			
Click the upload button or drag and drop files here to attach	n document	400.051/D	
B-4438 JD.pdf File type must be PDF		120.85KB	
6. Future Project Plans			
6a. Is this a phased project?*			
○ Yes	⊙ No		
	ermit(s), or individual permits(s) used, or intended to be used, to sing for linear projects that require Department of the Army autho	authorize any part of the proposed project or related activity? This orization but don't require pre-construction notification.	

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

✓ Wetlands✓ Streams-tributaries✓ Open Waters✓ Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #*(?)	2a1 Reason*(?)	2b. Impact type *(?)	2c. Type of W. *	2d. W. name *	2e. Forested *	2f. Type of Jurisdicition * (?)	2g. Impact area *
1	Fill	Р	Riverine Swamp Forest	WB	Yes	Both	0.050 (acres)
1	Cut ditch-excavation	Р	Riverine Swamp Forest	WB	Yes	Both	0.050 (acres)
1	Mechanized Clearing	Р	Riverine Swamp Forest	WB	Yes	Both	0.003 (acres)
2	Fill	Р	Riverine Swamp Forest	WB	Yes	Both	0.140 (acres)
2	Mechanized Clearing	Р	Riverine Swamp Forest	WB	Yes	Both	0.020 (acres)
3	Bridge - fill	Р	Riverine Swamp Forest	WB/WA	Yes	Both	0.040 (acres)
3	Bridge - excavation	Р	Riverine Swamp Forest	WB/WA	Yes	Both	0.005 (acres)
3	Bridge - Mechanized Clearing	P	Riverine Swamp Forest	WB/WA	Yes	Both	0.030 (acres)

5	Outlet - Mechanized Clearing	P	Riverine Swamp Forest	WC	Yes	Both	0.002 (acres)
6	Outlet - Mechanized Clearing	Р	Riverine Swamp Forest	wc	Yes	Both	0.003 (acres)
7	Fill	P	Riverine Swamp Forest	WA	Yes	Both	0.360 (acres)
7	Mechanized Clearing	P	Riverine Swamp Forest	WA	Yes	Both	0.080 (acres)

2g. Total Temporary Wetland Impact

0.000

2g. Total Permanent Wetland Impact

0.783

2g. Total Wetland Impact

0.783

2h. Comments:

There will be 0.05 acre of hand clearing and 0.03 acre of temporary fill for erosion and sediment control measures in the hand clearing areas.

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 *	J	3f. Type of Jurisdiction *	3g. S. width*	3h. Impact length *
S1	Roadway/Bridge	Temporary	Bank Stabilization	Bear Pen Islands Swamp	Perennial	Both	52 Average (feet)	129 (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:

_.

3i. Total temporary stream impacts:

129

3i. Total stream and ditch impacts:

131

3j. Comments:

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site #	4a1. Impact Reasor	4b. Impact type * (?)	4c. Name of waterbody (?)	4d. Activity type *		4f. Impact area *
7	Fill	Р	Bear Pen Islands Swamp	Bridge	Ditch	0.17 (acres)

4g. Total temporary open water Impacts:

0.00

4g. Total permanent open water impacts:

0.17

4g. Total open water impacts:

0.17

4h. Comments:

E. Impact Justification and Mitigation



	anning an offsite detour was evaluated and de	t the bridge drain into inlets. Runoff is then diffused to a etermined to be to long. Other than no build, impacts to	
1b. Specifically describe measures taken to		s through construction techniques:*	
NCDOT Best Management Practices for Constru			
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	J.S. or Waters of the State?	
© Yes	○ No		
2c. If yes, mitigation is required by (check a	ill that apply):		
□ DWR			
2d. If yes, which mitigation option(s) will be	used for this project?		
☐ Mitigation bank ☑ Payment to in-lieu fee program	e ☐ Permittee Responsible Mitigation		
4. Complete if Making a Paym	ent to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program ⊙ Yes ○ No	n is attached.		
4b. Stream mitigation requested: (linear feet)		4c. If using stream mitigation, what is the stream temperature: warm	
NC Stream Temperature Classification Maps can	n be found under the Mitigation Concepts tal	o on the Wilmington District's RIBITS website.	
		4e. Riparian wetland mitigation requested:	
4d. Buffer mitigation requested (DWR only) (square feet)	:	(acres) 0.78	
	_d.		
4f. Non-riparian wetland mitigation request (acres)	ea:	4g. Coastal (tidal) wetland mitigation requested: (acres)	
4h. Comments			
F. Stormwater Managem	ent and Diffuse Flow P	lan (required by DWR)	<u>•</u>
		lan (required by DWR) ter rules have required updates to this section .***	<u></u>
		,	♠
F. Stormwater Managem 1. Diffuse Flow Plan	*** Recent changes to the stormwa	,	
F. Stormwater Managem 1. Diffuse Flow Plan 1a. Does the project include or is it adjacent	*** Recent changes to the stormwant to protected riparian buffers identified No	ter rules have required updates to this section .***	
T. Diffuse Flow Plan 1. Does the project include or is it adjacent or Yes The project include or is it adjacent or Yes The project include or is it adjacent or Yes	*** Recent changes to the stormwant to protected riparian buffers identified No	ter rules have required updates to this section .***	⊙
T. Diffuse Flow Plan 1. Does the project include or is it adjacent. C Yes For a list of options to meet the diffuse flow required.	*** Recent changes to the stormwant to protected riparian buffers identified No sirements, click here.	ter rules have required updates to this section .***	⊗
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer Yes For a list of options to meet the diffuse flow requirements of the project include or is it adjacer. If no, explain why:	*** Recent changes to the stormwant to protected riparian buffers identified No uirements, click here.	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules?	
1. Diffuse Flow Plan 1a. Does the project include or is it adjacent. C Yes For a list of options to meet the diffuse flow requirements of the project include or is it adjacent. C Yes For a list of options to meet the diffuse flow requirements of the project subject to compare the project subject subject to compare the project subject s	*** Recent changes to the stormwant to protected riparian buffers identified No uirements, click here.	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules?	(a)
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer Yes For a list of options to meet the diffuse flow requirements of the project include or is it adjacer. Yes For a list of options to meet the diffuse flow requirements of the project include or is it adjacer. Yes Yes To a list of options to meet the diffuse flow requirements of the project include or is it adjacer. Yes To yes Yes No	*** Recent changes to the stormwant to protected riparian buffers identified No No uirements, click here.	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules?	⊙
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer C Yes For a list of options to meet the diffuse flow requirements. 2. Stormwater Management P 2a. Is this a NCDOT project subject to composite Yes C No Comments:	*** Recent changes to the stormwant to protected riparian buffers identified No No direments, click here.	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules?	
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer C Yes For a list of options to meet the diffuse flow requ If no, explain why: 2. Stormwater Management P 2a. Is this a NCDOT project subject to comp C Yes C No Comments: G. Supplementary Inform	*** Recent changes to the stormwant to protected riparian buffers identified No No cuirements, click here.	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules? ermit NCS000250? **	
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer C Yes For a list of options to meet the diffuse flow requirements of the project subject to comp C Yes O No Comments: G. Supplementary Inform 1. Environmental Documentar 1a. Does the project involve an expenditur C Yes	*** Recent changes to the stormwant to protected riparian buffers identified No suirements, click here. Plan Diance with NCDOT's Individual NPDES per mation tion e of public (federal/state/local) funds or No	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules? ermit NCS000250? **	•
1. Diffuse Flow Plan 1a. Does the project include or is it adjacer. C Yes For a list of options to meet the diffuse flow requirements of the project subject to composite Yes. 2. Stormwater Management P 2a. Is this a NCDOT project subject to composite Yes. Comments: G. Supplementary Inform 1. Environmental Documentation. Does the project involve an expenditure. Yes 1b. If you answered "yes" to the above, documents of the project involve and the proje	*** Recent changes to the stormwant to protected riparian buffers identified No suirements, click here. Plan Diance with NCDOT's Individual NPDES per mation tion e of public (federal/state/local) funds or No	ter rules have required updates to this section .*** I within one of the NC Riparian Buffer Protection Rules? Permit NCS000250?* the use of public (federal/state) land?*	•

○ No

Yes

Click the upload button or drag and drop fit FILETYPEMUST BEPDF	iles here to attach document	
2. Violations (DWR R	Requirement)	
2a. Is the site in violation of D Riparian Buffer Rules (15A NC	and the second s	ted Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or
C Yes	∘ No	
3. Cumulative Impact	ts (DWR Requirement)	
3a. Will this project (based on	past and reasonably anticipated future impacts) result in addit	ional development, which could impact nearby downstream water quality? *
C Yes	© No	
Due to the minimal transportation	vide a short narrative description. impact resulting from this bridge replacement, this project will neither rect or cumulative effects study will not be necessary.	influence nearby land uses nor stimulate
4. Sewage Disposal	(DWR Requirement)	
4a. Is sewage disposal require	ed by DWR for this project?*	
5. Endangered Speci	ies and Designated Critical Habitat (Corps F	Requirement)
5a. Will this project occur in o	r near an area with federally protected species or habitat? *	
⊙ Yes	O No	
5b. Have you checked with the	e USFWS concerning Endangered Species Act impacts?* C No	
5c. If yes, indicate the USFWS Raleigh	Field Office you have contacted.	
5d. Is another Federal agency	involved?*	
C Yes	⊙ No	○ Unknown
5e. Is this a DOT project locate ⊙ Yes ○ No	ed within Division's 1-8?*	
	use to determine whether your site would impact Endangered atabase along with field surveys. See attached concurrence letter.	Species or Designated Critical Habitat?*
Consultation Documentation L		
Olick the upload button or drag and drop fi		04.00(/D
20181004 USFWS Letter B-4438 File type must be PDF	рат	31.88KB
6. Essential Fish Hab	pitat (Corps Requirement)	
6a. Will this project occur in o	r near an area designated as an Essential Fish Habitat?*	
C Yes	⊙ No	
6b. What data sources did you NMFS County Index	use to determine whether your site would impact an Essential	Fish Habitat?*
7. Historic or Prehist	oric Cultural Resources (Corps Requiremer	ıt)
Link to the State Historic Preserva	ation Office Historic Properties Map (does not include archaeological of	lata: http://gis.ncdcr.gov/hpoweb/
Trust designation or propertie	es significant in North Carolina history and archaeology)?*	e designated as having historic or cultural preservation status (e.g., National Historic
C Yes	⊙ No	
7b. What data sources did you NEPA Documentation	use to determine whether your site would impact historic or a	rcheological resources?*
7c. Historic or Prehistoric Info Click the upload button or drag and drop fi File must be PDF	•	

NEPA or SEPA Final Approval Letter

8. Flood Zone Designation (Corps Requirement)

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

Yes O N

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

Miscellaneous



Comments

Miscellaneous attachments not previously requested.

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

File must be PDF or KMZ

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:*

Mack Christopher Rivenbark, III

Signature

Hack C. Riverbank III

Date

11/21/2018



ROY COOPER Governor MICHAEL S. REGAN Secretary TIM BAUMGARTNER Director

November 16, 2018

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-4438, Replace Bridge 47 on NC 211 over Bear Pen Island Swamp, Brunswick County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on November 9, 2018, the impacts are located in CU 03040206 of the Lumber River basin in the Southern Outer Coastal Plain (SOCP) Eco-Region, and are as follows:

Lumber		Stream			Wetlands		Buffer	(Sq. Ft.)
03040206 SOCP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh Zone 1		Zone 2
Impacts (feet/acres)	0	0	0	0.78	0	0	0	0

^{*}Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This mitigation acceptance letter replaces the mitigation acceptance letter issued on October 24, 2018. The impacts and associated mitigation needs were under projected by the NCDOT in the 2018 impact data. DMS will commit to implement sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill

LDMS Asset Management Supervisor

cc:

Mr. Brad Shaver, USACE - Wilmington Regulatory Field Office

Ms. Joanne Steenhuis, NCDWR - Wilmington Field Office

File: B-4438 Revised





North Carolina Department of Transportation



Highway Stormwater Program STORMWATER MANAGEMENT PLAN

Version 2.07; Released October 2016) FOR NCDOT PROJECTS WBS Element: 38365.1.2 TIP No.: B-4438 County(ies): Brunswick Page **General Project Information** WBS Element: 38365.1.2 TIP Number: B-4438 Project Type: **Bridge Replacement** Date: 11/6/2018 NCDOT Contact: **David Stutts** Contractor / Designer: JEFF RECK.P.E. Address: NCDOT CENTURY CENTER Address: MOFFATT &NICHOL 1000 BIRCH RIDGE DR 4700 FALLS OF THE NEUSE RD. SUITE 300 RALEIGH, NC 27609 RALEIGH NC 27610 Phone: (919) 707-6574 Phone: (919) 781-4626 Email: dstutts@ncdot.gov Email: JRECK@MOFFATTNICHOL.COM City/Town: Bailev Brunswick County(ies): CAMA County? River Basin(s): Lumber Yes Wetlands within Project Limits? Yes **Project Description** RURAL, AGRICULTURE, WOODS Project Length (lin. miles or feet): 0.403 MILES Surrounding Land Use: **Proposed Project Existing Site** Project Built-Upon Area (ac.) 1.8 THE PROPOSED ROADWAY WILL BE A TWO-WAY ALIGNMENT WITH 12' TRAVEL LANES, THE EXISTING ROADWAY IS A TWO-WAY ALIGNMENT WITH 12' TRAVEL LAVES, 1' Typical Cross Section Description: 2' PAVED SHOULDER, 6' GRASSED SHOULDER, AND 3:1 SLOPES. THE PROPOSED PAVED SHOULDER, AND 3:1 SLOPES. THE EXISTING BRIDGE HAS AN OUT TO OUT OF BRIDGE HAS AN OUT TO OUT OF 33' AND CLEAR ROADWAY OF 30'10" THE BRIDGE WILL HAVE TWO 12' TRAVEL LANES AND 3' WIDE SHOULDER ON THE NORTH SIDE AND 3'10" WIDE SHOULDER ON THE SOUTH SIDE Annual Avg Daily Traffic (veh/hr/day): Design/Future: 2948 Year: 2039 Existing: 1908 Year: 2019 General Project Narrative: Project consists of the replacement of Bridge #090047 in Brunswick County. The existing bridges carries NC 211 Green Swamp Road over Bear Pen Islands Swamp between (Description of Minimization of Water Little Loop Road and Federal Road. The proposed structure for Bridge #090047 is a 39" Box Beam bridge. The proposed alignment is upstream of the existing alignment. There are wetlands located within the project limits. Quality Impacts) STORMWATER CONTROLS: The proposed bridge does not utilize deck drains. Runoff from the bridge roadway and paved shoulders at the bridge approaches drains into inlets. The stormwater is then diffused at a riprap pad outlet prior to discharging into Bear Pen Islands Swamp. Shoulders will be payed and then grassed except on the proposed bridges. Bank Stabilization is planned to prevent erosion of the streambanks. Waterbody Information Surface Water Body (1): Bear Pen Island Swamp NCDWR Stream Index No.: 15-7-3 **Primary Classification:** Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Swamp Waters (Sw) Other Stream Classification: Impairments: None Aquatic T&E Species? Comments: NRTR Stream ID: N/A Buffer Rules in Effect: Project Includes Bridge Spanning Water Body? Dissipator Pads Provided in Buffer? N/A es/ Deck Drains Discharge Over Buffer? No (If yes, provide justification in the General Project Narrative) (If ves. describe in the General Project Narrative; if no. justify in the Deck Drains Discharge Over Water Body? No General Project Narrative) (If yes, provide justification in the General Project Narrative)

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbol BEGIN. PROJECT END PROJECT VICINITY MAP (NTS)

4438

B

PROIEC

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BRUNSWICK COUNTY

LOCATION: REPLACE BRIDGE NO. 47 OVER BEAR PEN ISLANDS SWAMP ON NC 211 (GREEN SWAMP ROAD) PERMIT DRAWING SHEET 1 OF 18

B-4438

SHEET TOTAL SHEETS

DESCRIPTION

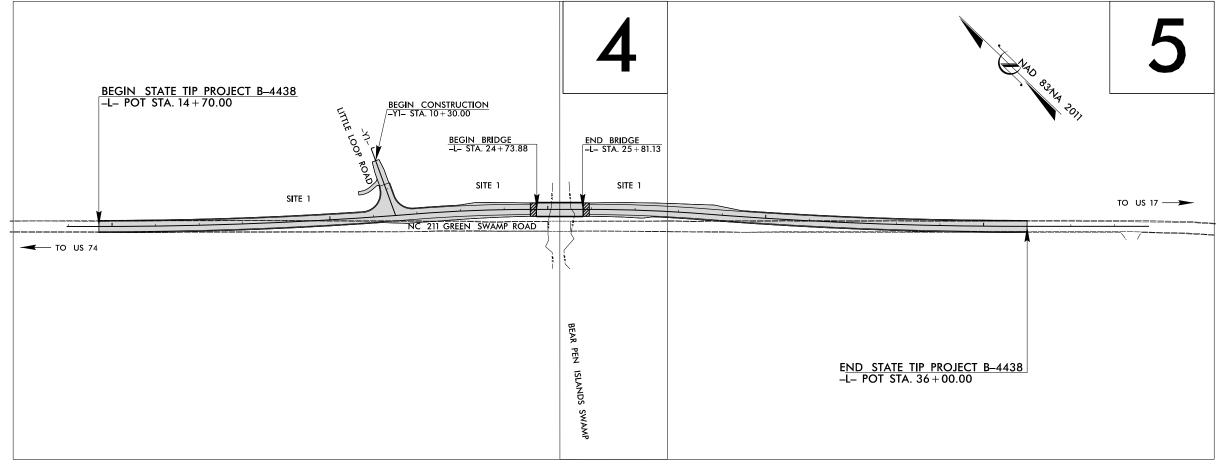
P.E.

R/W, UTIL.

CONST.

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

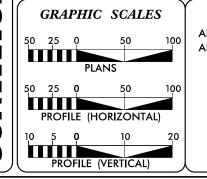
WETLAND AND SURFACE WATER IMPACTS PERMIT



1. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
2. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO MODIFIED METHOD III

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NCDOT CONTACT: DAVID STUTTS, P.E.



DESIGN DATA ADT 2019 = 1.908

ADT 2039 = 2,948= 9 % D = 55 %

REGIONAL TIER

= 15 % * V = 60 MPH* TTST = 9% DUAL 6% FUNC CLASS = MAJOR COLLECTOR

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4438 = 0.383 MILES LENGTH OF STRUCTURE TIP PROJECT B-4438 = 0.020 MILES TOTAL LENGTH OF TIP PROJECT B-4438 = 0.403 MILES

RIGHT OF WAY DATE: MAY 18, 2018 LETTING DATE:

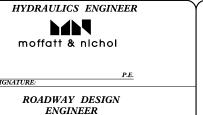
2018 STANDARD SPECIFICATIONS

JANUARY 15, 2019

TIM R. REID, P.E.

moffatt & nichol

TRENT E. HUFFMAN, P.E.



moffatt & nichol

SIGNATURE:

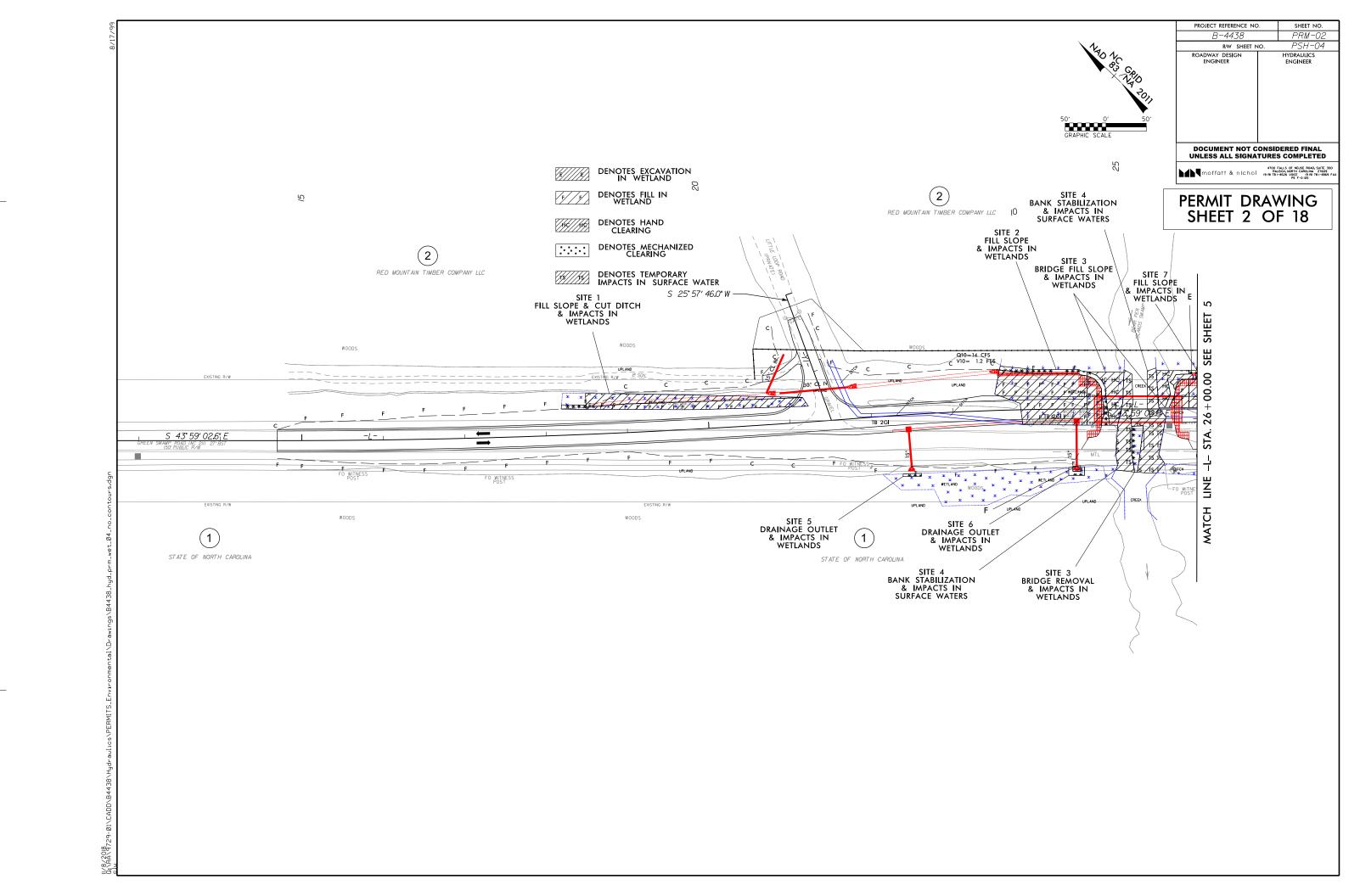
N.C.

STATE PROJ. NO.

38365.1.2

38365.2.1

38365.3.1



PROJECT REFERENCE NO. SHEET NO.

B-4438 PRM-03

RW SHEET NO. PSH-05

ROADWAY DESIGN HYDRAULICS ENGINEER

FOR APPLIC SCALE

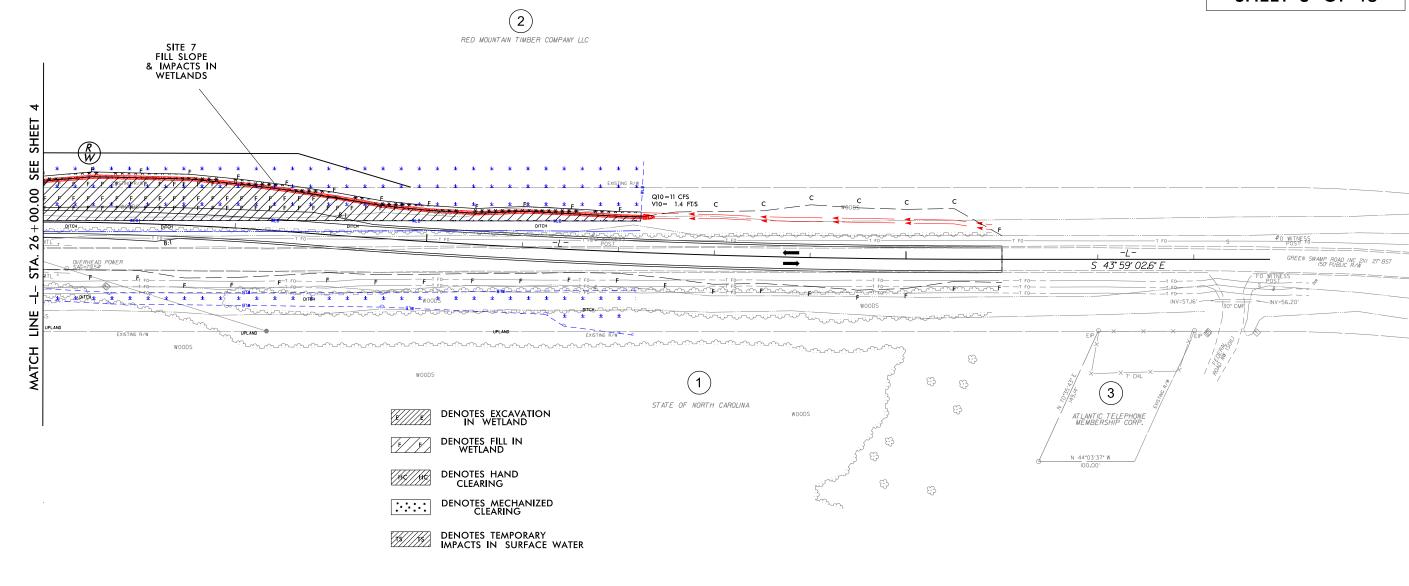
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

30

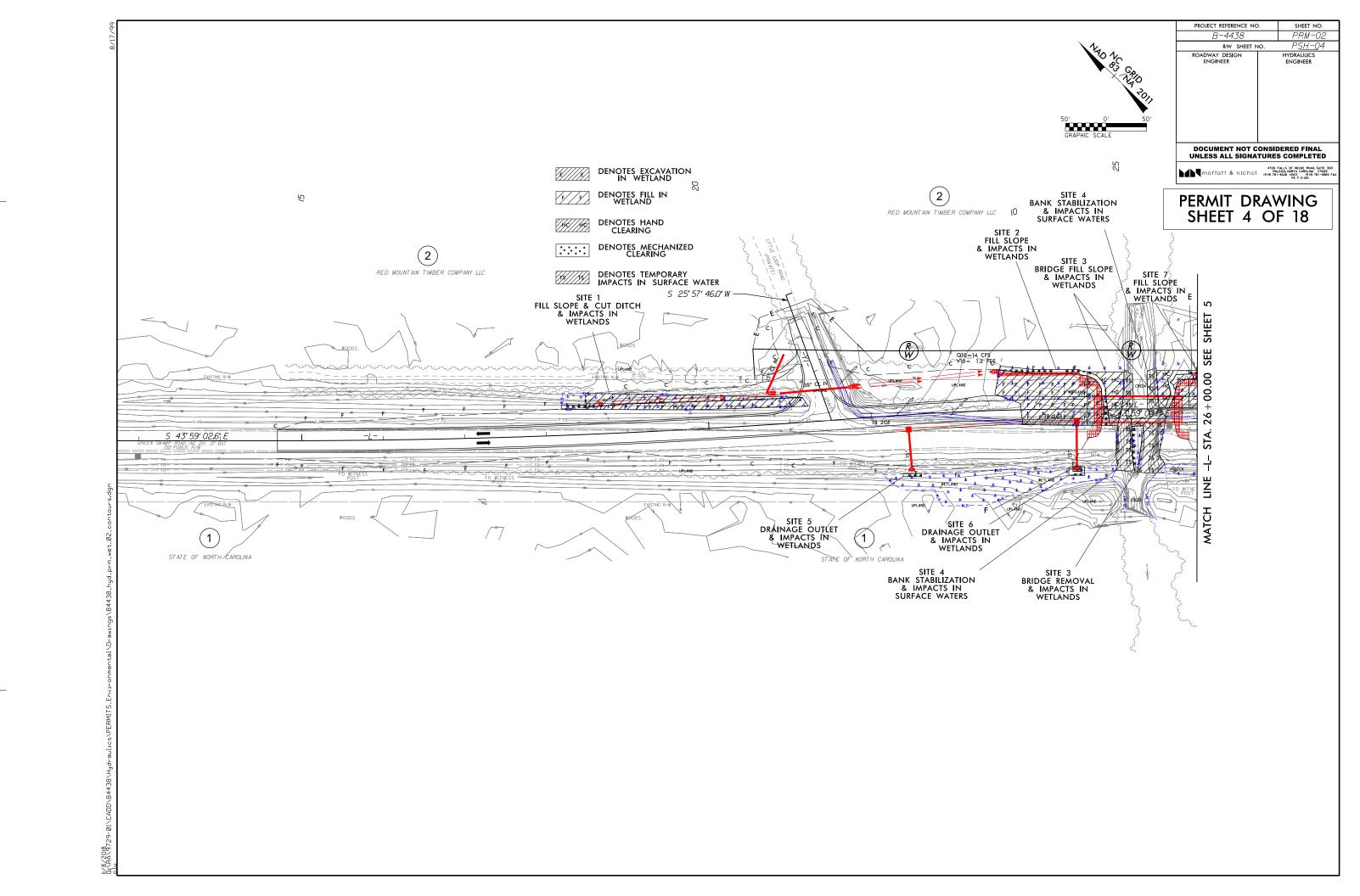
35

4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGN, MORTH CARGLINA 27609
(919) 781-4626 VOICE (919) 781-4626 F.
PE F-0.105

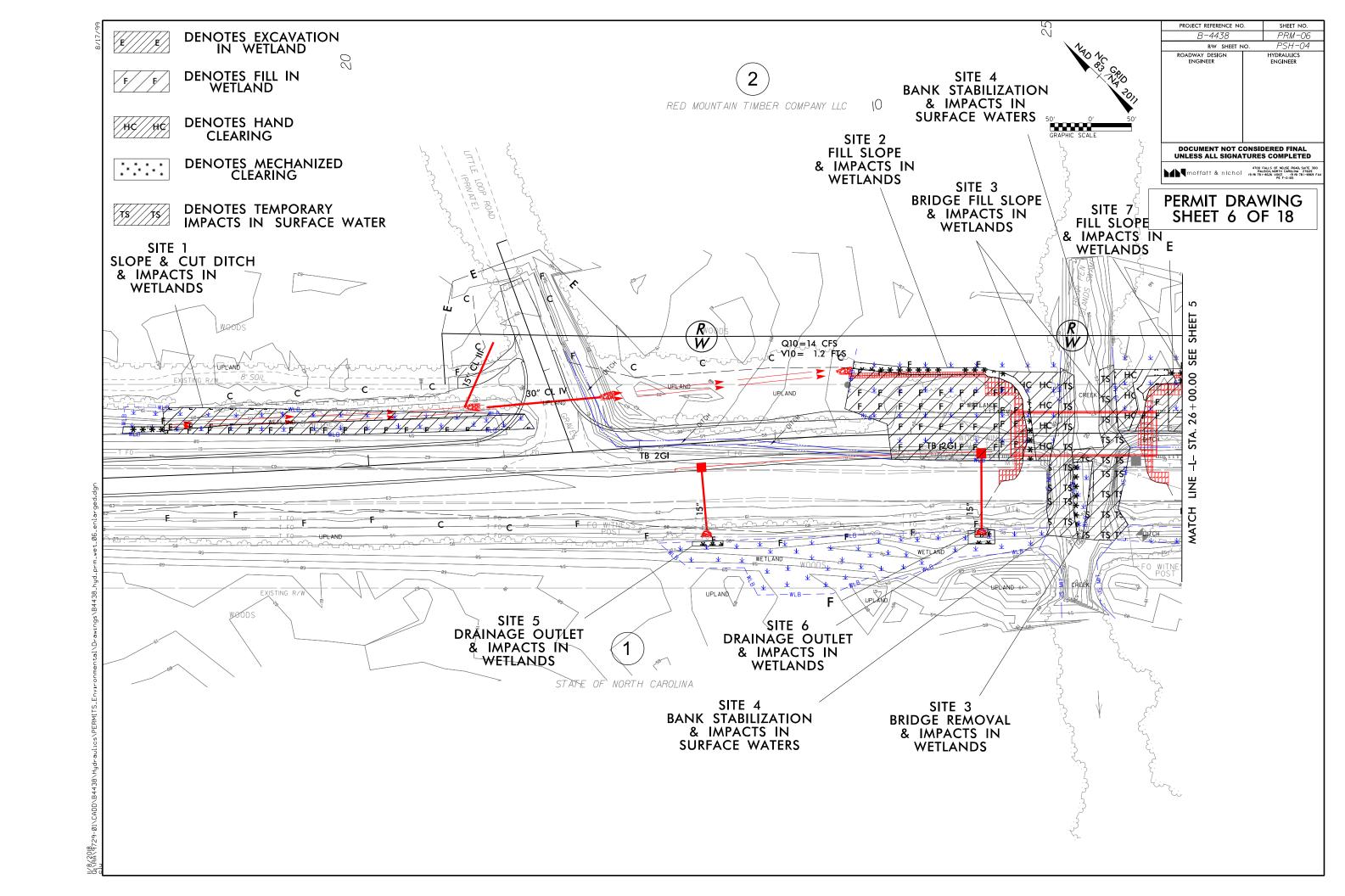
PERMIT DRAWING SHEET 3 OF 18

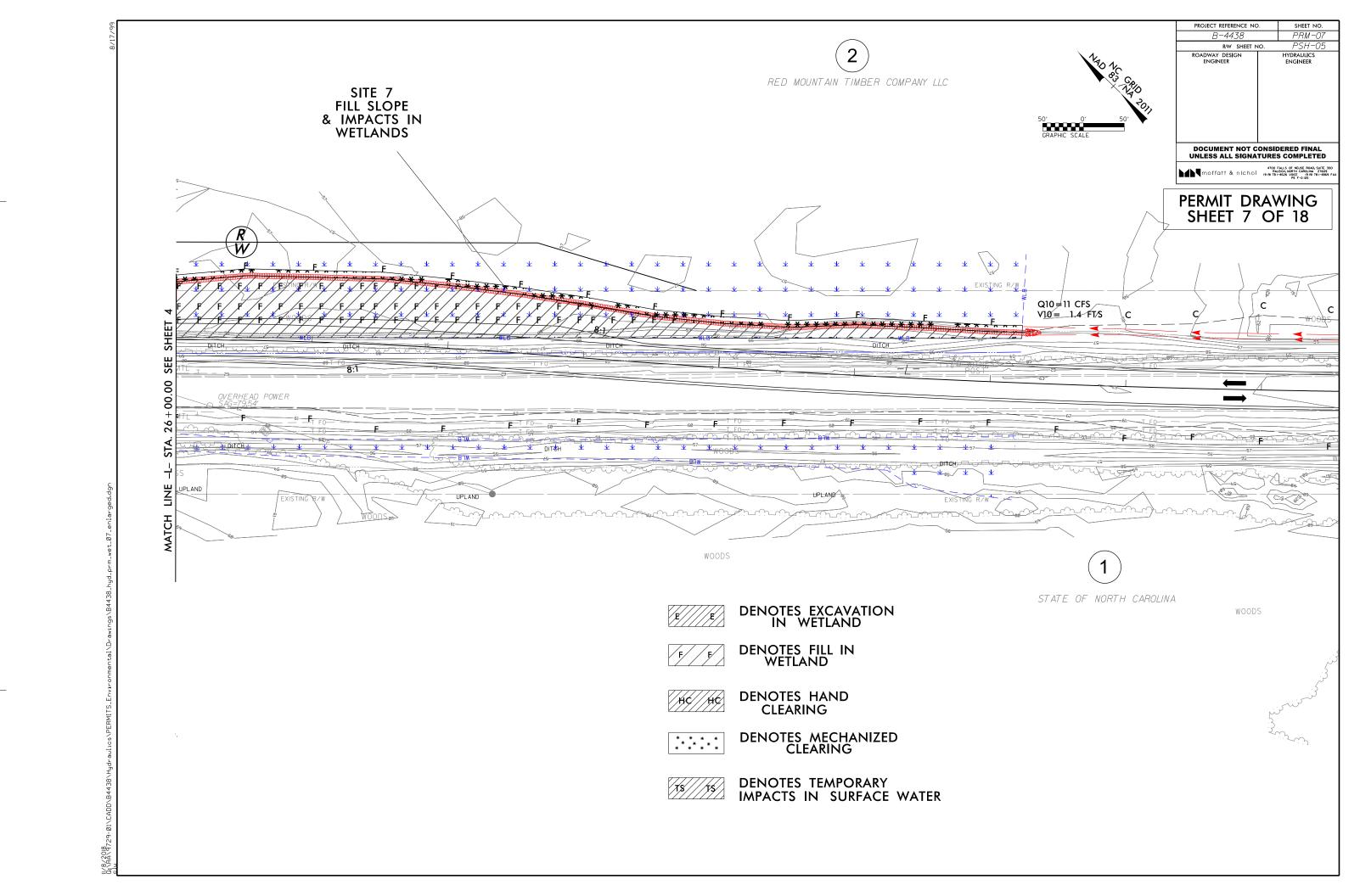


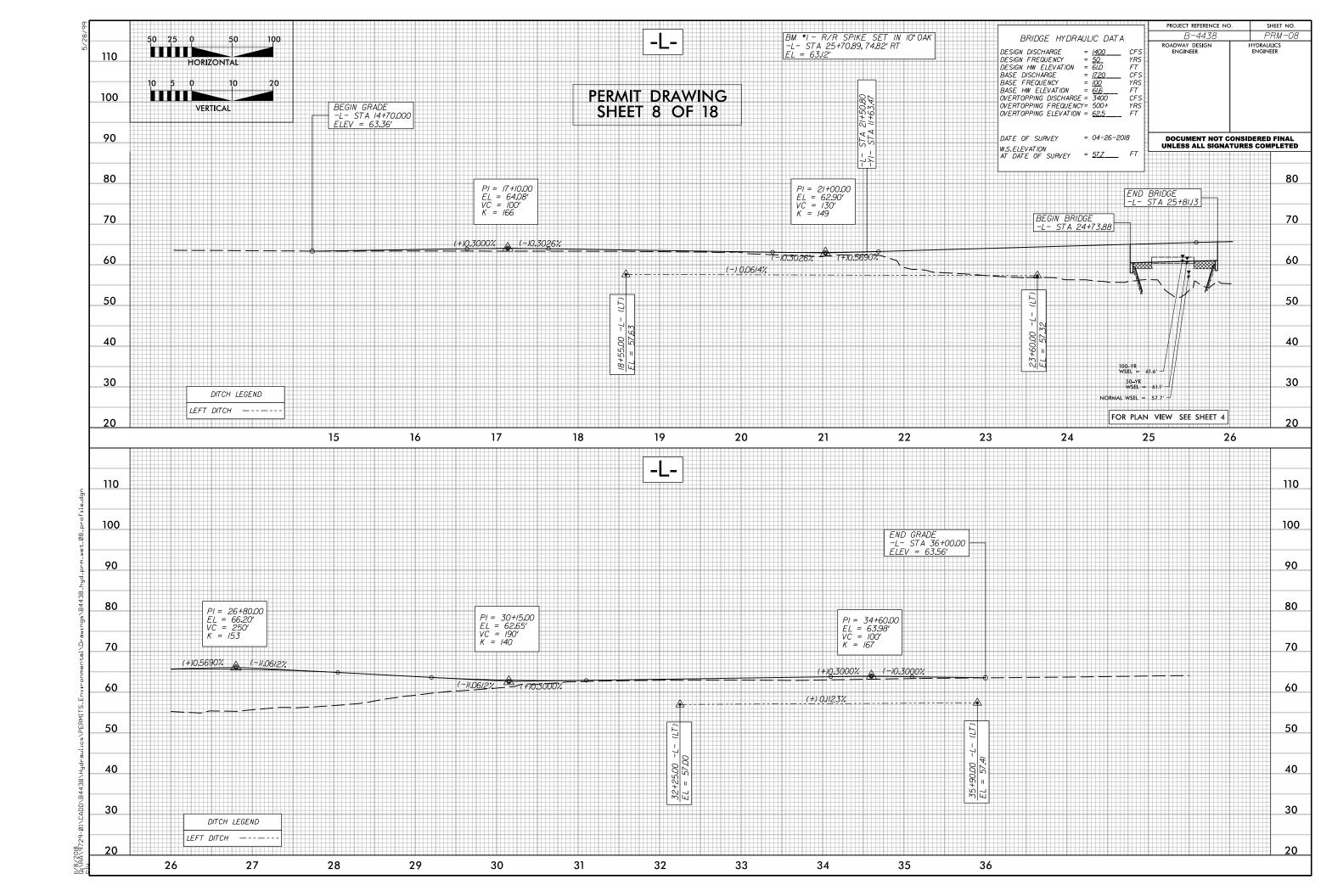
3 3729-01\CADD\B4438\Hydraulics\PERMITS_Environmental\Drawings\B4438_hyd-prm_wet_05_no_contours

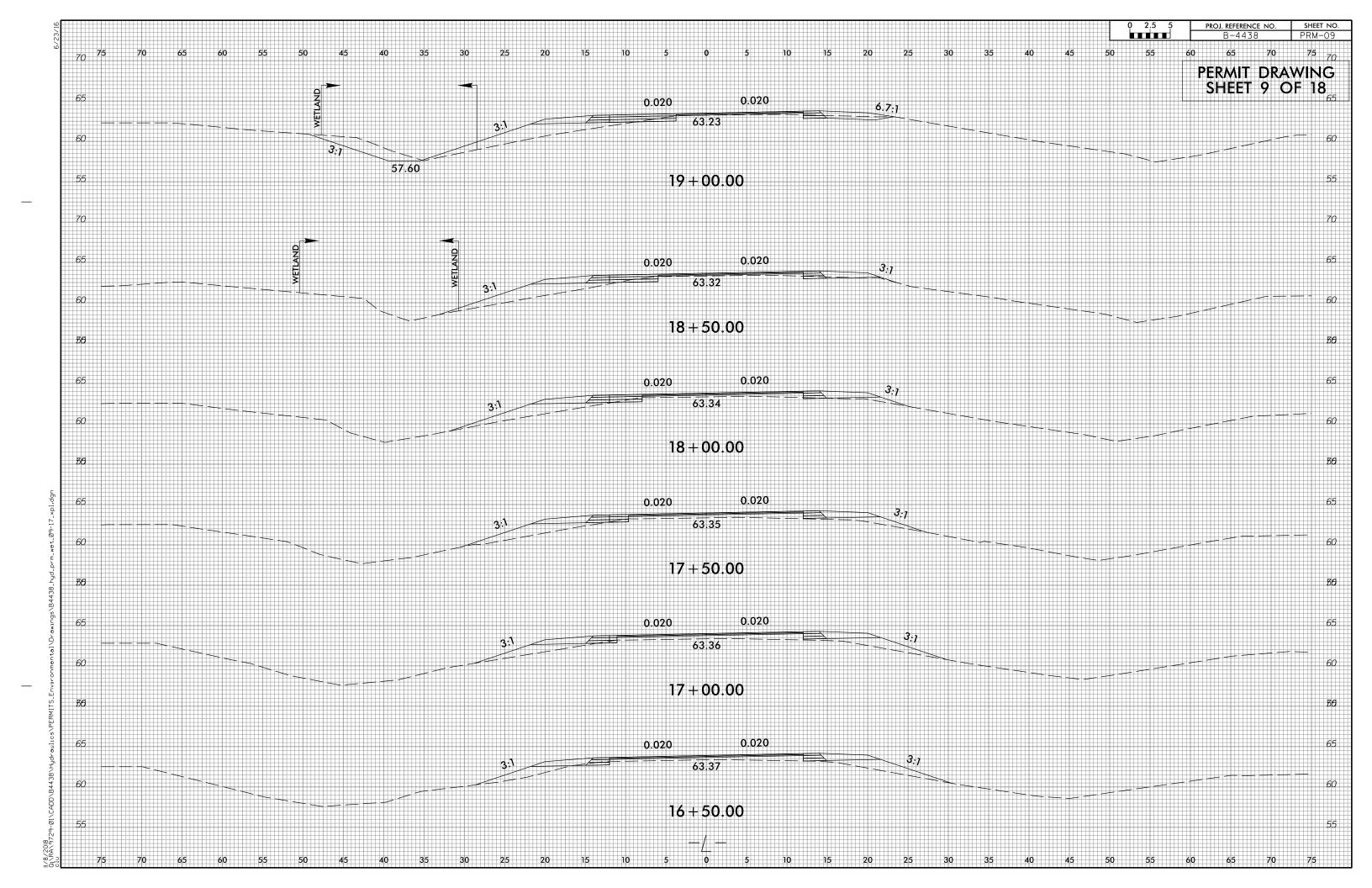


PROJECT REFERENCE NO. SHEET NO. B-4438 PRM-03 PSH-05 RW SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 4700 FALS. OF NEUSE ROAD, SUITE SOC RALIGIA, NORTH CARGINAL 2769 91937 81-4626 VOICE 9197 81-4869 F EF -0 105 PERMIT DRAWING SHEET 5 OF 18 (2) RED MOUNTAIN TIMBER COMPANY LLC SITE 7 FILL SLOPE & IMPACTS IN WETLANDS _L-S 43° 59′ 02.6″ E (1) STATE OF NORTH CAROLINA DENOTES EXCAVATION IN WETLAND ATLANTIC TELEPHONE MEMBERSHIP CORP. DENOTES FILL IN WETLAND DENOTES HAND CLEARING DENOTES MECHANIZED CLEARING DENOTES TEMPORARY IMPACTS IN SURFACE WATER









				WETLA	ND AND SU	JRACE WAT	ER IMPAC	TS SUMMA				
				WE	TLAND IMPA	CTS			SURFA	CE WATER II	//PACTS	
		_	Permanent	Temp.		Mechanized	•	Permanent		Existing Channel	Existing Channel	Natural
Site No.	Station (From /To)	Structure	Fill In Wetlands	Fill In Wetlands	in Wetlands	Clearing in Wetlands	in Wetlands	SW	SW	Impacts	Impacts	Stream
NO.	(From/To)	Size / Type	(ac)	(ac)	(ac)	(ac)	(ac)	impacts (ac)	impacts (ac)	Permanent (ft)	Temp. (ft)	Design (ft)
1	-L- 18+21 LT TO 21+24 LT	ROADWAY FILL & CUT DITCH	. ,	(***)	0.05	< 0.01	(222)	(***)	(222)	()	()	
2	-L- 23+52 LT TO 24+65 LT	ROADWAY FILL	0.14			0.02						
3	-L- 24+65 LT TO 25+95 LT	BRIDGE	0.04		< 0.01	0.03	0.05					
4	-L- 24+98 TO 25+71	BANK STABILIZATION							0.11		129	
5	-L- 22+23 RT TO 22+67 RT	DRAINAGE OUTLET				< 0.01						
6	-L- 24+32 RT TO 24+72 RT	DRAINAGE OUTLET				< 0.01						
7	-L- 25+90 LT TO 32+24 LT	ROADWAY FILL	0.36			0.08						
												+
												+
												+
												+
TOTALS*:			0.59		0.05	0.14	0.05		0.11		129	

^{*}Rounded totals are sum of actual impacts

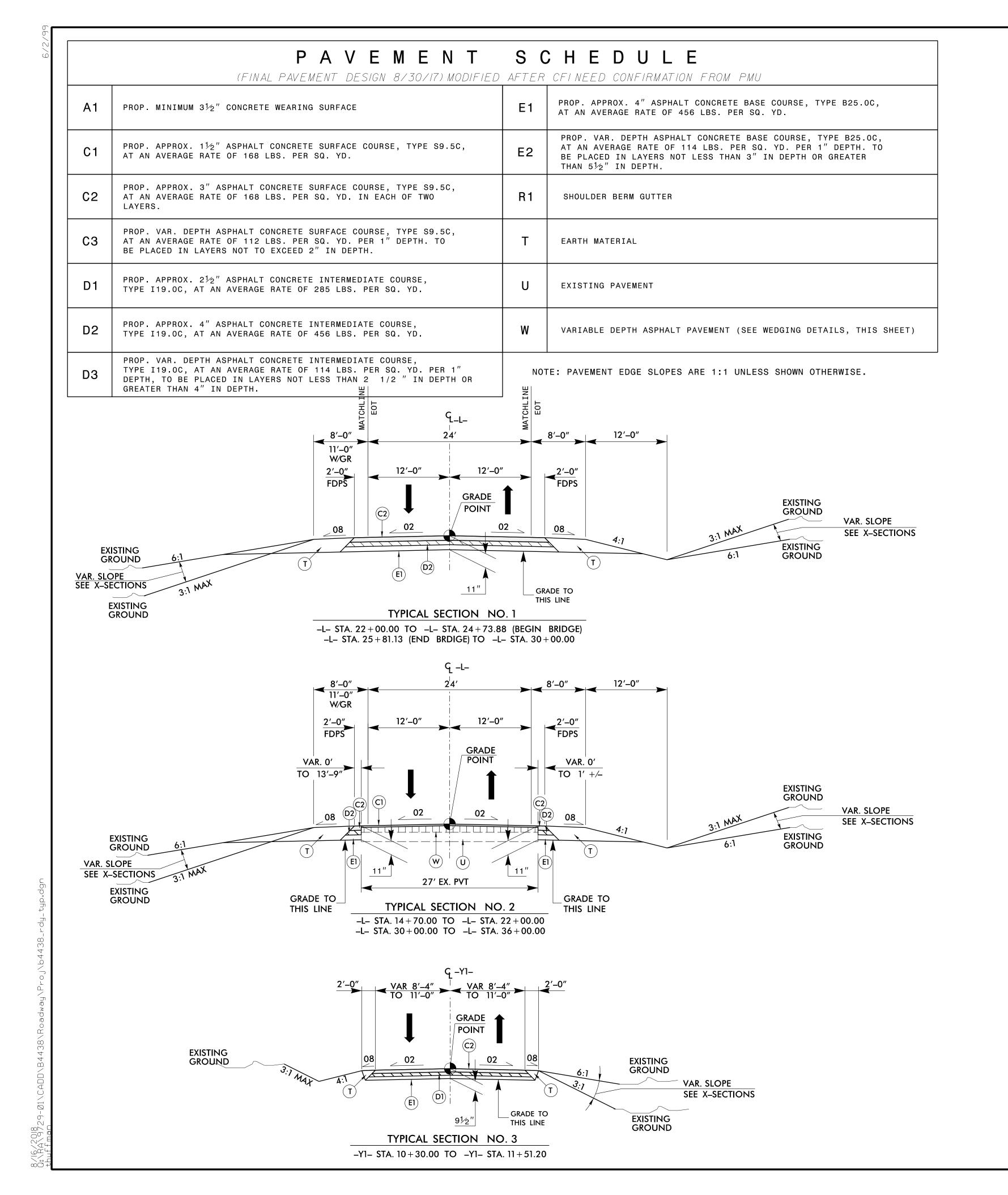
NOTES

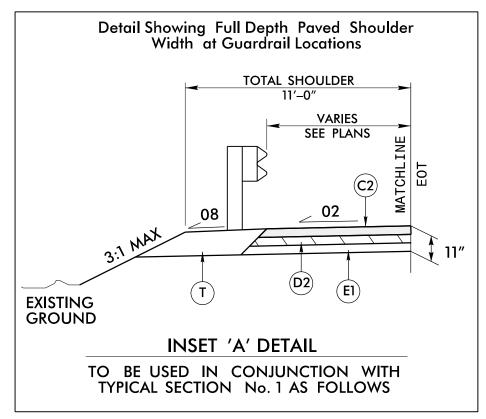
-L- 25+53LT TO 32+22 LT, Open Water Impacts (OWA) 0.17 ac 0.03 acres of Temp Fill in Wetlands in the Hand Clearing areas for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
11/08/2018
BRUNSWICK COUNTY
B-4438
38365.1.2
SHEET 18 OF 18

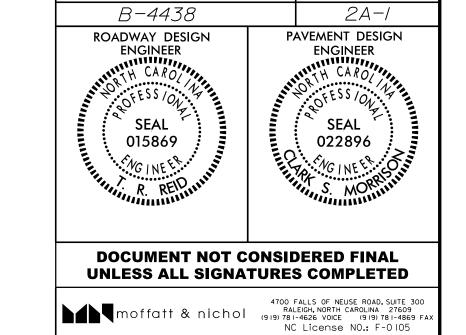
Revised 2016 09 09

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols STATE OF NORTH CAROLINA STATE B-4438 DIVISION OF HIGHWAYS STATE PROJ. NO. Rattlesnake 38365.1.2 P.E. 38365.2.1 R/W, UTIL BEGIN 38365.3.1 CONST. PROJECT BRUNSWICK COUNTY 438 PROJECT LOCATION: REPLACE BRIDGE NO. 47 OVER BEAR PEN ISLANDS SWAMP ON NC 211 (GREEN SWAMP ROAD) TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE 100% PLANS VICINITY MAP (NTS) BEGIN STATE TIP PROJECT B-4438
-L- POT STA. 14 + 70.00 BEGIN CONSTRUCTION -Y1- STA. 10+30.00 BEGIN BRIDGE -L- STA. 24+73.88 TO US 17 ----NC 211 GREEN SWAMP ROAD **──** TO US 74 END STATE TIP PROJECT B-4438 -L- POT STA. 36+00.00 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED NCDOT CONTACT: DAVID STUTTS, P.E. Prepared in the Office of: HYDRAULICS ENGINEER PROJECT LENGTH GRAPHIC SCALES **DESIGN DATA** moffatt & nichol ADT 2019 = 1,908 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4869 FAX moffatt & nichol NC License NO.: F-0105 ADT 2039 = 2,9482018 STANDARD SPECIFICATIONS K = 9 %LENGTH OF ROADWAY TIP PROJECT B-4438 = 0.383 MILES PLANS D = 55 %LENGTH OF STRUCTURE TIP PROJECT B-4438 = 0.020 MILES SIGNATURE: TIM R. REID, P.E. T = 15 % *RIGHT OF WAY DATE: = 0.403 MILES TOTAL LENGTH OF TIP PROJECT B-4438 ROADWAY DESIGN PROJECT ENGINEER V = 60 MPHMAY 18, 2018 **ENGINEER** PROFILE (HORIZONTAL) * TTST = 9% DUAL 6% TRENT E. HUFFMAN, P.E. FUNC CLASS = LETTING DATE: PROJECT DESIGN ENGINEER moffatt & nichol JANUARY 15, 2019 MAJOR COLLECTOR **REGIONAL TIER** PROFILE (VERTICAL) **SIGNATURE**:



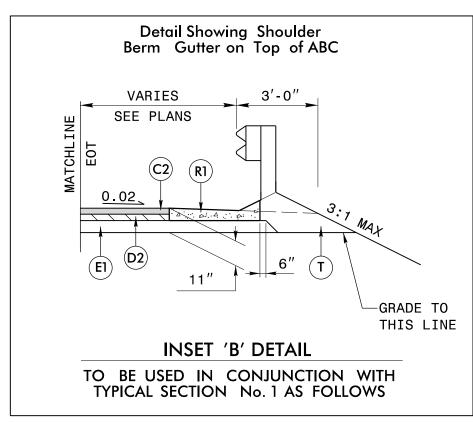


-L- STA. 23+37.50 TO -L- STA. 24+73.88 (BEGIN BRIDGE) (LT) -L- STA. 21+75.00 TO -L- STA. 24+73.88 (BEGIN BRIDGE) (RT) -L- STA. 25+81.13 (END BRIDGE) TO -L- STA. 28+80.00 (LT) -L- STA. 25+81.13 (END BRIDGE) TO -L- STA. 27+17.50 (RT)

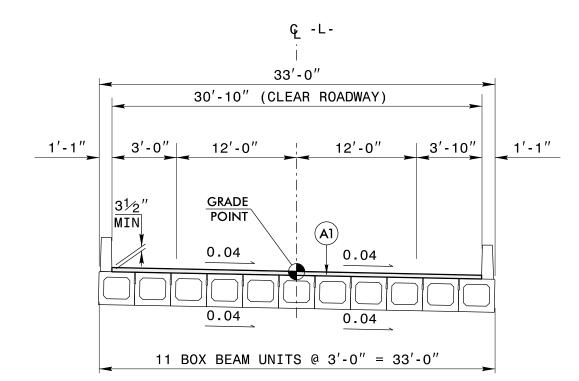


SHEET NO.

PROJECT REFERENCE NO.

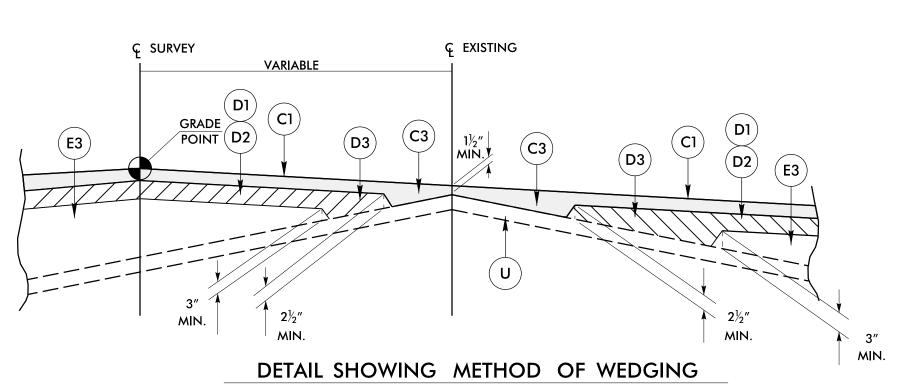


-L- STA. 24+48.00 TO -L- STA. 24+64.00 (RT)



BRIDGE TYPICAL SECTION

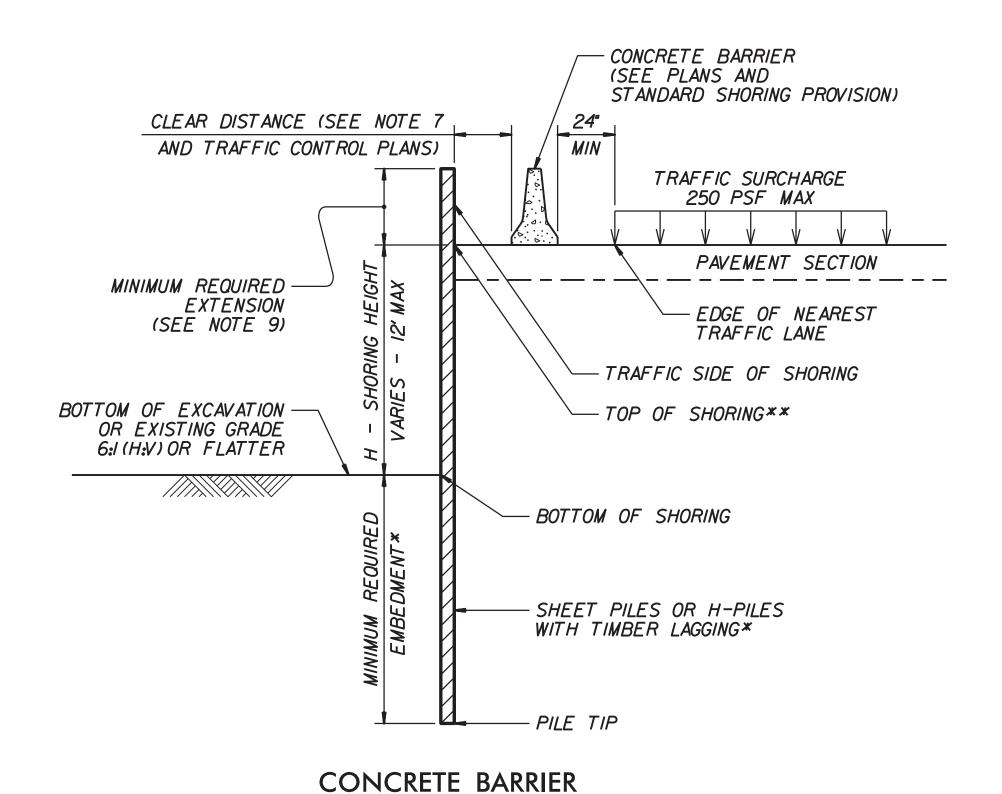
-L- STA. 24 + 73.88 TO STA. 25 + 81.13



		SLOPE	OR SURCHARGE CASE	E WITH NO	TRAFFIC IM	PACT		SURCHARGE CASE W	TH TRAFFI	C IMPACT		
		SHE	EET PILES	H-PILES	WITH TIMBE	R LAGGING	SHE	EET PILES	H-PILES WITH TIMBER LAGGING			
CONDITION (SEE NOTE 6)	H SHORING HEIGHT		MINIMUM REQUIRED EMBEDMENT	MINIMUM REQUIRED SECTION MODULUS (IN ³ /FT)		EQUIRED EM (FT) SEE NOTE I		MINIMUM REQUIRED EMBEDMENT	MINIMUM REQUIRED		EQUIRED EM (FT) SEE NOTE I	
	(FT)	(FT)	(IN ³ /FT)	HP 10x42	HP 12x53	HP 14x73	(FT)	SECTION MODULUS (IN ³ /FT)	HP 10x42	HP 12x53	HP 14x73	
≥ 5	< 6	II . 5	4.5	II . 5	II . 5	II . 5	16.0	12.0	13.0	13.0	13.0	
GROUNDWATER ELEVATION BEWTEEN BOTTOM OF SHORING AND PILE TIP	7	13.0	7.0	13.0	13.0	13.0	17.0	14.5	<i>14.</i> 5	14.5	<i>14.</i> 5	
ATE SEW'S SH(8	15.0	10.0		15.0	15.0	18.0	17.0	-	15.5	<i>15.</i> 5	
NDW NN E OF	9	17.0	14.0		17.0	17.0	19.0	20.0	-	17.0	17.0	
ROU!	10	18.5	<i>19.</i> 5			18.5	20.0	<i>23.</i> 5	-		18.5	
G/ CEV, OTT	//	20.5	26.0				21.0	28.0			20.0	
B.F.	12	<i>22.</i> 5	33.0				22.0	<i>33.</i> 0			21.5	
	< 6	7. 5	3.0	8.0	8.0	8.0	11.0	10.0	9. 5	9.5	9. 5	
	7	8. 5	4.5	9. 5	9. 5	9.5	12.0	12.0	10.5	10.5	10.5	
ATE BE FIP	8	10.0	6.5	10.5	10.5	10.5	12.5	14.0	II . 5	II . 5	II . 5	
NDW 100N E	9	11.0	9.5		12.0	12.0	<i>13.</i> 5	<i>16.</i> 5		12.5	12.5	
GROUNDWATER ELEVATION BELOW PILE TIP	10	12.5	13.0			13.5	14.0	19.5		13.5	<i>13.</i> 5	
G G G	//	13.5	17.0			14.5	15.0	22.5			<i>14.</i> 5	
	12	15.0	21.5			16.0	16.0	<i>25</i> . 5			<i>15.5</i>	

MINIMUM REQUIRED EMBEDMENT AND SECTION MODULUS

*DO NOT USE H-PILES WITH TIMBER LAGGING FOR GROUNDWATER CONDITION, SHORING HEIGHT AND H-PILE SIZE SHOWN IF MINIMUM REQUIRED EMBEDMENT IS "--".



**TOP OF SHORING = EDGE OF PAVEMENT

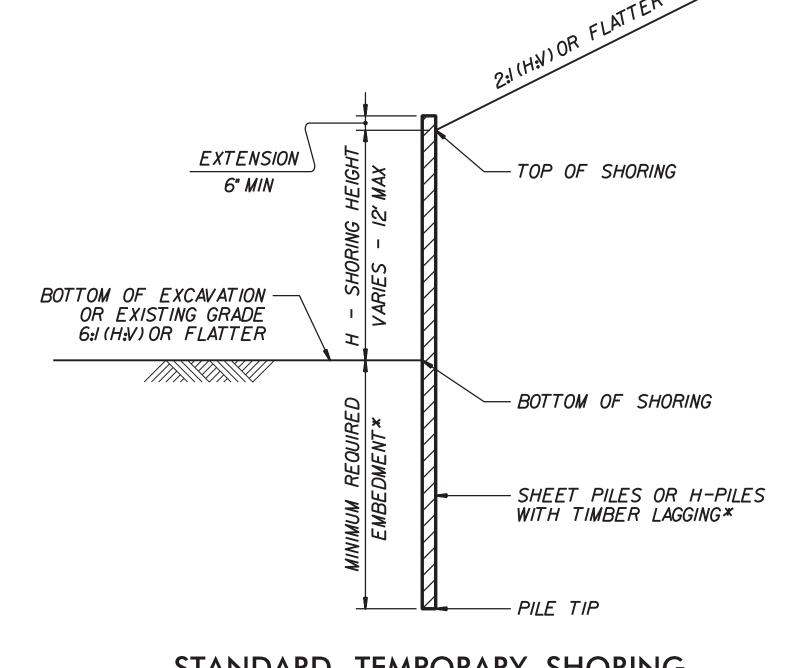
GUARDRAIL FACE** - TEMPORARY GUARDRAIL 24" CLEAR DISTANCE (SEE PLANS AND (SEE NOTE 8) MIN STANDARD SHORING PROVISION) TRAFFIC SURCHARGE 250 PSF MAX PAVEMENT SECTION MINIMUM REQUIRED -EXTENSION (SEE NOTE 9) EDGE OF NEAREST TRAFFIC LANE - CLASS IV SELECT MATERIAL (ABC) - TRAFFIC SIDE OF SHORING BOTTOM OF EXCAVATION OR EXISTING GRADE TOP OF SHORING 6:1(H:V) OR FLATTER //>>> - BOTTOM OF SHORING SHEET PILES OR H-PILES WITH TIMBER LAGGING* - PILE TIP

> TEMPORARY GUARDRAIL **GUARDRAIL FACE = EDGE OF PAVEMENT

STANDARD TEMPORARY SHORING (SURCHARGE CASE) *SEE TABLE ABOVE.

NOTES:

- I. AT THE CONTRACTOR'S OPTION.USE STANDARD TEMPORARY SHORING AS NOTED IN THE PLANS.
- 2. FOR STANDARD TEMPORARY SHORING. SEE STANDARD SHORING PROVISION.
- 3. STANDARD TEMPORARY SHORING IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS: UNIT WEIGHT, $\gamma = 120$ PCF FRICTION ANGLE, ϕ = 30 DEGREES COHESION.c = 0 PSF
- 4. DO NOT USE STANDARD TEMPORARY SHORING IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
- 5. DO NOT USE STANDARD TEMPORARY SHORING WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS WITHIN THE EMBEDMENT DEPTH.
- 6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS,USE "GROUNDWATER ELEVATION BETWEEN BOTTOM OF SHORING AND PILE TIP" FOR GROUNDWATER CONDITION. DO NOT USE STANDARD TEMPORARY SHORING IF GROUNDWATER IS ABOVE BOTTOM OF SHORING.
- 7. AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN THE MINIMUM REQUIRED FOR CONCRETE BARRIER, SET BARRIER NEXT TO AND UP AGAINST TRAFFIC SIDE OF PILES AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
- 8. AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN 4' FOR TEMPORARY GUARDRAIL, ATTACH GUARDRAIL TO TRAFFIC SIDE OF PILES AS SHOWN IN THE PLANS AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
- 9. MINIMUM REQUIRED EXTENSION IS 6" FOR "SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT" AND 32" FOR "SURCHARGE CASE WITH TRAFFIC IMPACT".
- 10. MINIMUM REQUIRED EMBEDMENT FOR H-PILES WITH TIMBER LAGGING IS BASED ON DRIVEN H-PILES AT MAXIMUM 6' SPACING. AT THE CONTRACTOR'S OPTION, EMBEDMENT DEPTHS MAY BE REDUCED BY 25% FOR DRILLED-IN H-PILES.
- II. SUBMIT A "STANDARD TEMPORARY SHORING SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY SHORING CONSTRUCTION. UP TO 3 SHORING LOCATIONS MAY BE INCLUDED ON EACH FORM. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM: connect_ncdot_gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
- 12. CONTACT THE ENGINEER IF PILES DO NOT ATTAIN THE MINIMUM REQUIRED EMBEDMENT.



STANDARD TEMPORARY SHORING (SLOPE CASE) *SEE TABLE ABOVE.

NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

GEOTECHNICAL ENGINEERING UNIT STANDARD DETAIL NO. 1801.01

PROJECT REFERENCE NO. | SHEET NO.

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

B-44<u>3</u>8

GEOTECHNICAL

ENGINEER

SEAL

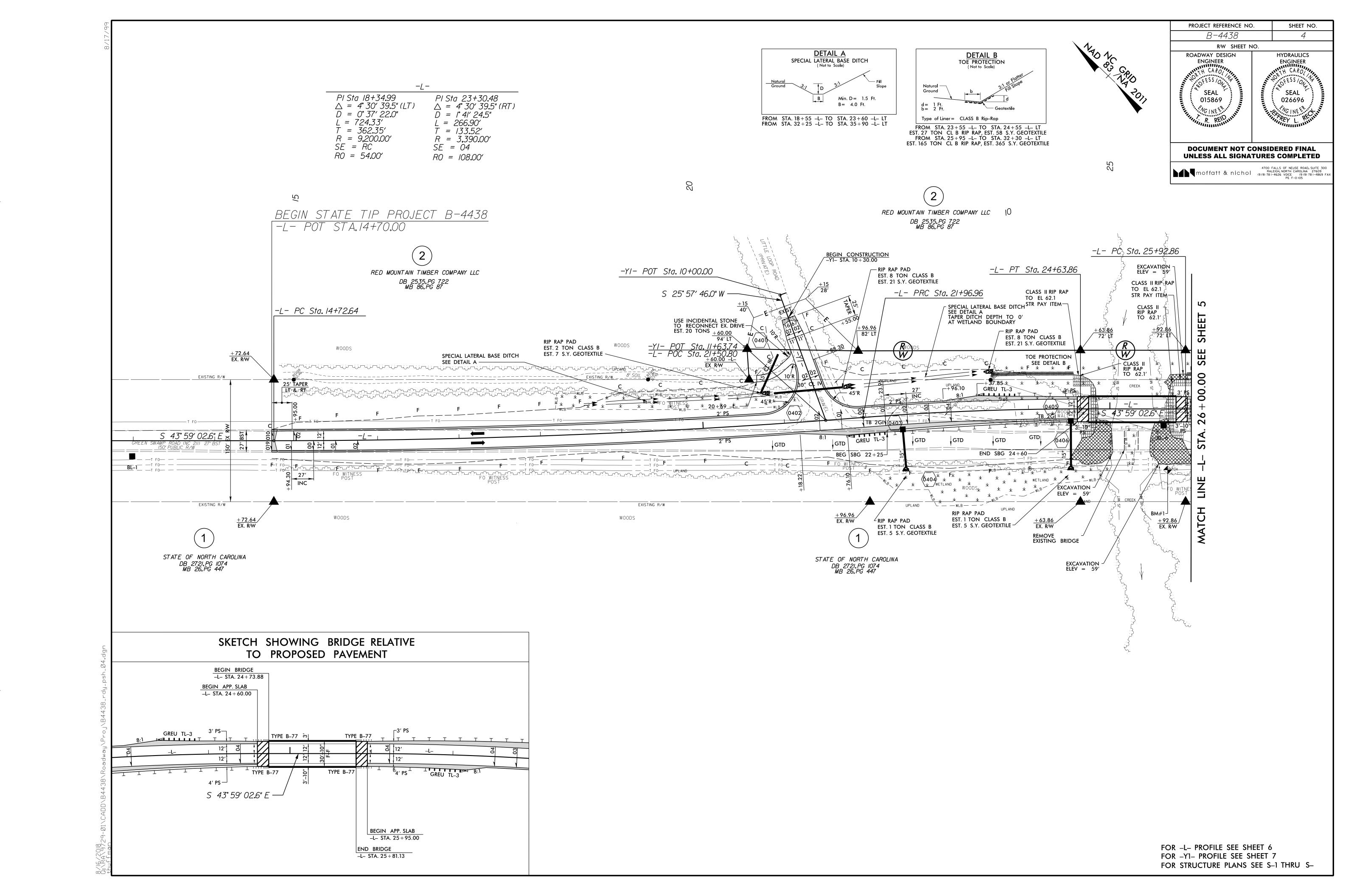
<u>PE #</u>

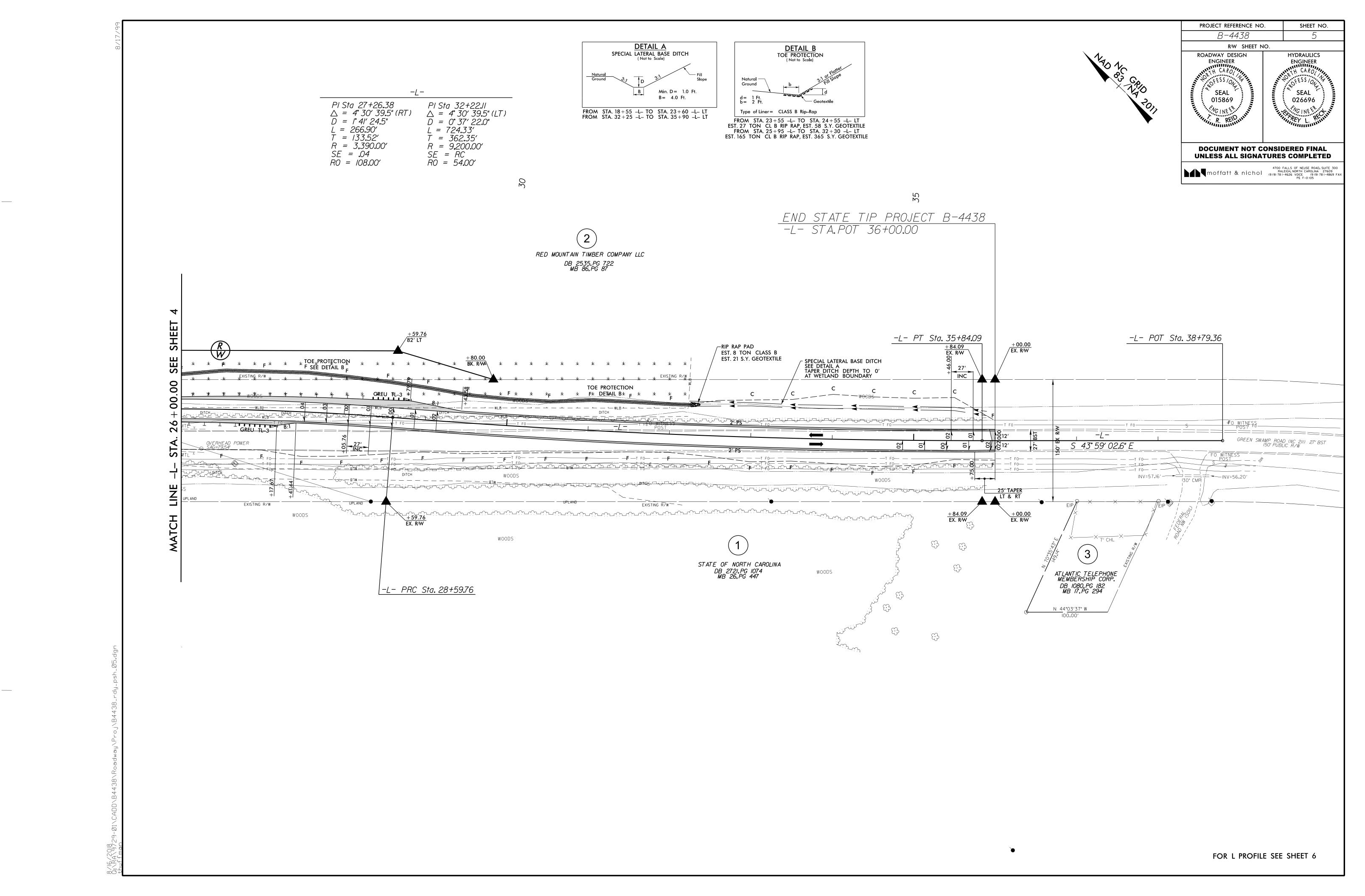
2G-1

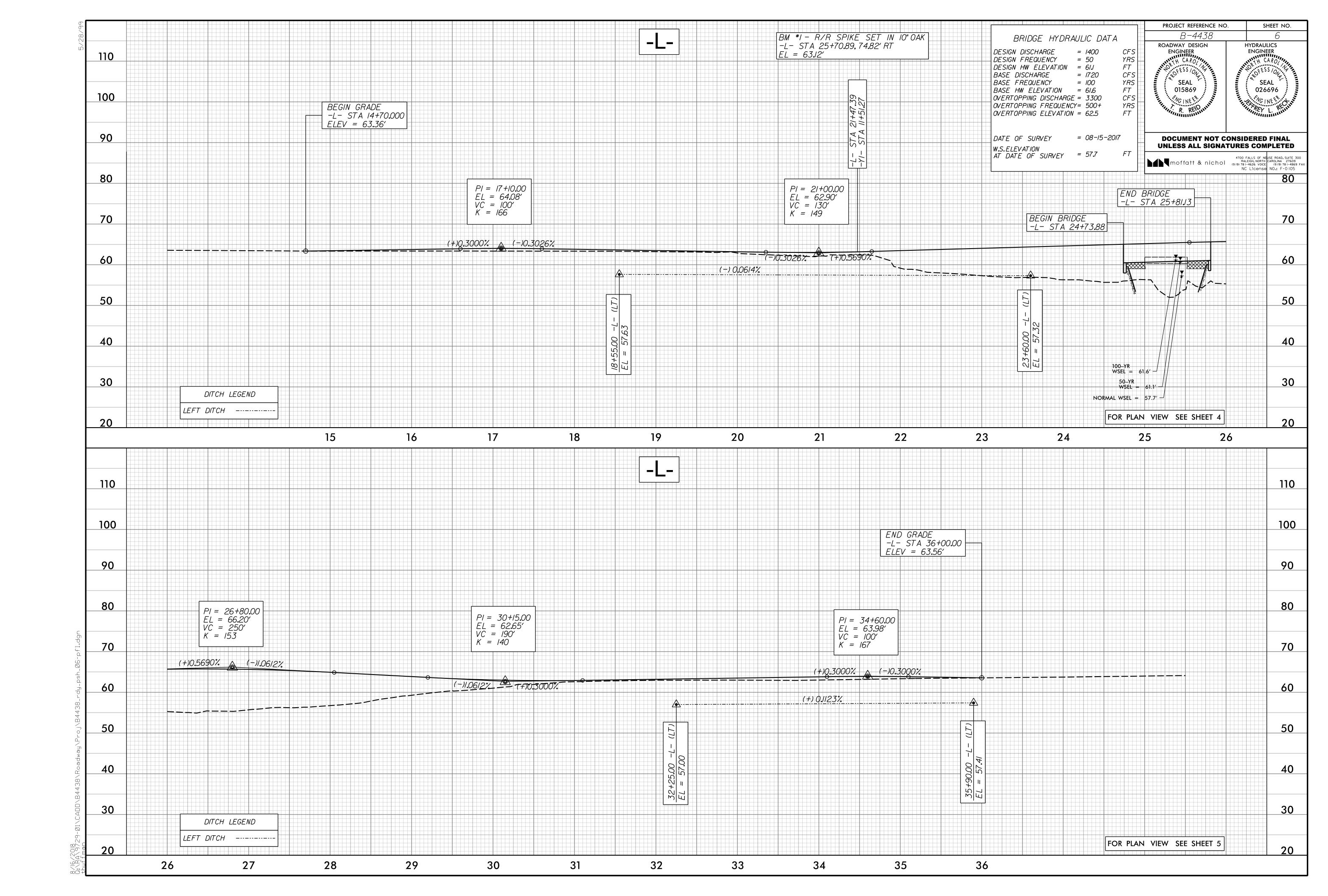
ENGINEER

STANDARD TEMPORARY SHORING

DATE: 11-19-13







U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action Id. SAW-2015-00954 County: Brunswick County U.S.G.S. Quad: Honey Island

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Applicant: NCDOT-Division 3

Attn: Mr. Mason Herndon

Address: <u>5501 Barbados Blvd</u>

Castle Hayne, NC 28429

Size (linear feet) +/- 1200 Nearest Town Bolivia

Nearest Waterway Juniper Creek River Basin Lower Pee Dee

USGS HUC 03040206 Coordinates Latitude: <u>34.1408874027632</u>

Longitude: -78.325021395591

Location description: The project area is located along Hwy 211 south of Bolton and north of Bolivia, Brunswick

County.

Indicate Which of the Following Apply:

A. Preliminary Determination

- X There are waters, including wetlands, on the above described project area, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.
- There are wetlands on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since the waters, including wetlands, have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the waters, including wetlands, at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

B. Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S., including wetlands, on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
 - _ We recommend you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

SAW-2015-00954

- The waters of the U.S., including wetlands, on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
- The waters of the U.S., including wetlands, have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on . Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Brad Shaver at** (910) 251-4611 or Brad.E.Shaver@usace.army.mil.

- C. Basis For Determination: N/A. An Approved JD has not been completed.
- D. Remarks: The field visit was completed on 4/27/2015.
- E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

> SHAVER.BRAD Digitally signed by SHAVER.BRAD.E.1276601756 DN: c=US, o=U.S. Government, ou=DoD, E.1276601756 ou=PKI, ou=USA, on=USA, on=SHAVER.BRAD.E.1276601756 Date: 2018.05.04 09:55:31 -04'00'

Corps Regulatory Official:

Date: May 4, 2018 Expiration Date: None PJD

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at http://corpsmapu.usace.army.mil/cm apex/f?p=136:4:0.

Copy Furnished:

NCDEQ-DWR attn: Ms. Joanne Steenhuis



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

October 4, 2018

Philip S. Harris III, P.E., C.P.M.
North Carolina Department of Transportation
Natural Environment Section
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

This letter is in response to your letter of October 4, 2018 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation (NCDOT) that the proposed replacement of Bridge No. 47 on NC 211 over Bear Pen Island Swamp (TIP No. B-4438) in Brunswick County may affect, but is not likely to adversely affect the federally threatened wood stork (*Mycteria americana*). In addition, NCDOT has determined that the project will have no effect on all other federally listed species, with the exception of the northern long-eared bat (*Myotis septentrionalis*), which has been previously addressed through a programmatic consultation. These comments are provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to your submitted information, the site was surveyed for wood stork nests in June 2016 and on July 16, 2018. No wood storks or wood stork nests were observed, although potential foraging habitat was present. Based on available information, the Service concurs with your biological conclusion that the project may affect, but is not likely to adversely affect the wood stork. We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,

Pete Benjamin Field Supervisor

Electronic copy:

Brad Shaver, USACE, Wilmington, NC Travis Wilson, NCWRC, Creedmoor, NC Deanna Riffey, NCDOT, Raleigh, NC