



### **Pre-Construction Notification (PCN) Form**

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

April 13, 2022 Ver 4.3

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

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

Below is a link to the online help file.

https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%2	20Help%20File%202018-1-30.pdf	
A. Processing Information		(
Pre-Filing Meeting Date Request was submitted on:* 8/1/2022		
If this is a courtesy copy, please fill in this with the submission date	e.	
County (or Counties) where the project is located: *		
Columbus		
Is this a NCDMS Project *  Yes  No		
Click Yes, only if NCDMS is the applicant or co-applicant.		
Is this project a public transportation project? ★		
This is any publicly funded by municipal, state or federal funds road, rail, airport trait	nsportation project.	
Is this a NCDOT Project?*		
(NCDOT only) T.I.P. or state project number: HB-0011		
WBS #* 49870.1.1 (for NCDOT use only)		
Type(s) of approval sought from the Corps:*      Section 404 Permit (wetlands, streams and waters, Clean Waters). Section 10 Permit (navigable waters, tidal waters, Rivers and France Corp.).	·	
Has this PCN previously been submitted?*  ○ Yes  ○ No		
1b. What type(s) of permit(s) do you wish to seek authorizatio  □ Nationwide Permit (NWP)  ☑ Regional General Permit (RGP)  □ Standard (IP)	n?*	
1c. Has the NWP or GP number been verified by the Corps?*  Yes No		
Regional General Permit (RGP) Number:	201902350 - Work associated with bridge construction, widening, replacement, and interchanges	

#### 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
- Non-404 Jurisdictional General Permit
- Individual 401 Water Quality Certification

- 401 Water Quality Certification Express
- Riparian Buffer Authorization

1e. Is this notification solely for the record	because written approval is not required?		
		*	
For the record only for DWR 401 Certification	on:	○ Yes   No	
For the record only for Corps Permit:		○ Yes ® No	
1f. Is this an after-the-fact permit applicatio	n?*		
○ Yes	No		
1g. Is payment into a mitigation bank or in-l If so, attach the acceptance letter from mitigation bank or	lieu fee program proposed for mitigation of i in-lieu fee program.	impacts?	
Yes	○ No		
Acceptance Letter Attachment Click the upload button or drag and drop files here to attack Accept_HB-0011.pdf FILE TYPE MUST BE PDF	ch document	277.89KB	
1h. Is the project located in any of NC's twe	enty coastal counties?*		
O Yes	No		
1j. Is the project located in a designated tro  Yes  No	ut watershed? *		
Link to trout information: http://www.saw.usace	army.mil/Missions/Regulatory-Permit-Program.	/Agency-Coordination/Trout.aspx	
B. Applicant Informatio	n		
1a. Who is the Primary Contact?*  Jason Dilday			
1b. Primary Contact Email: *		1c. Primary Contact Phone: *	
jldilday1@ncdot.gov		(xxx)xxx-xxxx (919)707-6111	
1d. Who is applying for the permit?*			
Owner (Check all that apply)		Applicant (other than owner)	
1e. Is there an Agent/Consultant for this pro  ○ Yes   ○ No	oject?*		
2. Owner Information			
2a. Name(s) on recorded deed: *			
n/a			
2b. Deed book and page no.:			
2c. Contact Person: (for Corporations)			
2d. Address*			
Street Address			
n/a Address Line 2			
City		State / Province / Region	
n/a Postal / Zip Code		n/a Country	
n/a		n/a	
2e. Telephone Number: * (xxx)xxx-xxxx (919)707-6000			
2f. Fax Number:			
(xxx)xxx-xxxx			
2g. Email Address: *			
maturchy@ncdot.gov			
3. Applicant Information (if diff	ferent from owner)		
3a. Name:*			

NCDOT

### 3b. Business Name: (if applicable) 3c. Address\* 1598 Mail Service Center Address Line 2 State / Province / Region Raleigh NC Postal / Zip Code Country 27699-1598 US 3d. Telephone Number: \* 3e. Fax Number: (919)707-6000 (xxx)xxx-xxxx (xxx)xxx-xxxx 3f. Email Address: \* maturchy@ncdot.gov C. Project Information and Prior Project History 1. Project Information 1a. Name of project: \* Bridge 26 over Gum Swamp Run on SR 1928 (HB-0011-Central) 1b. Subdivision name: (if appropriate) 1c. Nearest municipality / town: \* Old Dock 2. Project Identification 2b. Property size: 2a. Property Identification Number: (tax PIN or parcel ID) (in acres) 2c. Project Address Street Address Address Line 2 City State / Province / Region Postal / Zip Code Country 2d. Site coordinates in decimal degrees Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.) Latitude: \* Longitude: \* 34.160774 -78.580887 ex: 34.208504 -77.796371 3. Surface Waters 3a. Name of the nearest body of water to proposed project: \* 3b. Water Resources Classification of nearest receiving water: \* Surface Water Lookup 3c. What river basin(s) is your project located in?\* 3d. Please provide the 12-digit HUC in which the project is located. \* 030402060601 River Basin Lookup 4. Project Description and History

	n the site and the general land use in the vicinity of the project	at the time of this application: *	
	rimarily of swamp and minor residential development.	V 4	
Yes      No Unknown	cations been obtained for this project (including all prior phase	es) in the past?	
<b>4f. List the total estimated acreage of a</b> 2.0	all existing wetlands on the property:		
<b>4g. List the total estimated linear feet o</b> (intermittent and perennial) 250	of all existing streams on the property:		
<b>4h. Explain the purpose of the propose</b> Bridge inspections have been performed	ed project: * and it has been determined that due to hydraulic issues the bridge	needs to be replaced.	
4i. Describe the overall project in detail	il, including indirect impacts and the type of equipment to be u	sed: *	
This project involves replacing the 87.5-for trucks, bulldozers and cranes will be used		alignment using an on-site detour. Standard road building equipment, such as	
5. Jurisdictional Determi	nations		
5a. Have the wetlands or streams been	delineated on the property or proposed impact areas?*		
Yes	○ No	Unknown	
<b>Comments:</b> PJD package included with application			
5b. If the Corps made a jurisdictional of Preliminary ○ Approved ◎ Not Veri	letermination, what type of determination was made?* filed ○ Unknown ○ N/A		
Corps AID Number: Example: SAW-2017-99999			
5c. If 5a is yes, who delineated the juri	sdictional areas?		
Name (if known):	Greg Price and Chris Underwood		
Agency/Consultant Company:	NCDOT		
Other:			
6. Future Project Plans			
6a. Is this a phased project?*  Yes	No		
	l permit(s), or individual permits(s) used, or intended to be use ir projects that require Department of the Army authorization b	ed, to authorize any part of the proposed project or related activity? This includes other out don't require pre-construction notification.	ər
D. Proposed Impacts	Inventory		Ô
1. Impacts Summary			
1a. Where are the impacts associated	with your project? (check all that apply):		
Wetlands Open Waters	<ul><li>Streams-tributaries</li><li>Pond Construction</li></ul>	Buffers	
2. Wetland Impacts			
If there are wetland impacts propo	osed on the site, then complete this question for each	wetland area impacted.	
"W." will be used in the tab	ole 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	Roadway fill	Р	Riverine Swamp Forest	WA/WC	Yes	Both	0.029 (acres)
1	Mech. Clearing	Р	Riverine Swamp Forest	WA/WC	Yes	Both	0.045 (acres)
2-Detour	Temp. Fill	Т	Riverine Swamp Forest	WB/WD	Yes	Both	0.062 (acres)

#### 2g. Total Permanent Wetland Impact

0.074

#### 2g. Total Wetland Impact

0.136

#### 2i. Comments:

An additional 0.049 ac of hand clearing will occur in the area of the on-site detour. There will be 0.01 acre of temporary fill in the hand clearing area for 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.

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

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact*	3d. S. name*		3f. Type of Jurisdiction*	og. o. man.	3h. Impact length*
S1	Bank stabilization	Permanent	Bank Stabilization	Gum Swamp Run	Perennial	Both	50 Average (feet)	61 (linear feet)
S2	Bank stabilization	Temporary	Bank Stabilization	Gum Swamp Run	Perennial	Both	50 Average (feet)	86 (linear feet)

<sup>\*\*</sup> 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:

61

3i. Total temporary stream impacts:

86

3i. Total stream and ditch impacts:

147

3j. Comments:

### E. Impact Justification and Mitigation



#### 1. Avoidance and Minimization

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

The bridge will be replaced on the existing alignment. The new bridge will have less bents in the water than the existing structure. There will be no deck drains on the new structure. See stormwater management plan for additional minimization measures.

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

NCDOT's Best Management Practices for Construction and Maintenance Activities will be employed in all facets of construction and demolition.

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

2a. Does the project require Compensatory Mi	tigation for impacts to Waters of the U.S. or Waters of the State
Yes	○ No
2c. If yes, mitigation is required by (check all t	hat apply):
□ DWR	✓ Corps
2d. If yes, which mitigation option(s) will be us	sed for this project?
■ Mitigation bank  Payment to in-lieu fee prog	gram Permittee Responsible Mitigation

### 4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

Yes No

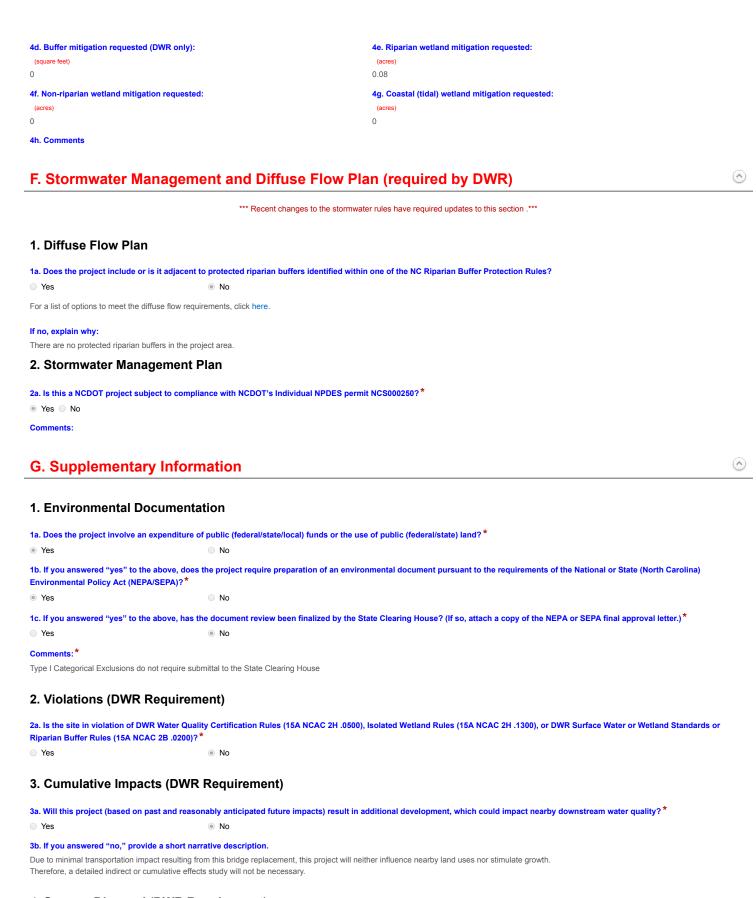
4b. Stream mitigation requested:

(linear feet)

4c. If using stream mitigation, what is the stream temperature:

0

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



### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project?\*

○ Yes ○ No ● N/A

### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

	with federally protected species or habitat?*  No		
Yes			
<ul><li>5b. Have you checked with the USFWS cond</li><li>Yes</li></ul>	erning Endangered Species Act impacts? *  No		
5c. If yes, indicate the USFWS Field Office y Raleigh	ou nave contacted.		
5d. Is another Federal agency involved?*			
Yes	No	Unknown	
5e. Is this a DOT project located within Divis	ion's 1-8?*		
Yes ○ No			
N.C. Natural Heritage Program database; USF American alligator, Waccamaw silverside, wood alligator does not require surveys. The Norther biological conclusion of "May Affect, Likely to A	ine whether your site would impact Endangered sites. WS-IPaC query; biological surveys for protected special stork, Northern long-eared bat, red-cockaded woodpin long-eared bat is covered under the programmatic bid dversely Affect". Habitat for Cooley's meadowrue exiskaded woodpecker does not exist in the study area. I application.	cies identified for the project area, which include pecker and Cooley's meadowrue. The American biological opinion for the species and received a sts, but no specimens were observed in a survey	
6. Essential Fish Habitat (Co	rps Requirement)		
6a. Will this project occur in or near an area	designated as an Essential Fish Habitat?*		
Yes	No		
<b>6b. What data sources did you use to determ</b> NMFS county index	nine whether your site would impact an Essential	Fish Habitat? *	
7. Historic or Prehistoric Cu	Itural Resources (Corps Require	ement)	
Link to the State Historic Preservation Office Hi	storic Properties Map (does not include archaeologic	al data: http://gis.ncdcr.gov/hpoweb/	
7a. Will this project occur in or near an area designation or properties significant in Nort  Yes		designated as having historic or cultural preservation status (e.g., National	Historic Trust
7b. What data sources did you use to determ NEPA documentation	nine whether your site would impact historic or a	rcheological resources?"	
8. Flood Zone Designation (	Corps Requirement)		
Link to the FEMA Floodplain Maps: https://m	sc.fema.gov/portal/search		
8a. Will this project occur in a FEMA-design  • Yes	ated 100-year floodplain? *  No		
<b>8b. If yes, explain how project meets FEMA</b> NCDOT hydraulics unit coordination with FEMA			
<b>8c. What source(s) did you use to make the</b> FEMA floodplain mapping	floodplain determination?*		
Miscellaneous			
Comments			
	uired documentation or any additional informatio onts, and a Cover Sheet for each Section preferred	on you feel is helpful for application review. Documents should be combined d.	into one file when
Click the upload button or drag and drop files here to attac		70040	
HB-0011 General Columbus September 1 2022 File must be PDF or KMZ	.рат	7.99MB	
Signature			
*			
<ul> <li>By checking the box and signing below, I ce</li> </ul>	rtify that:		
	ury urac.		

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief'; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act"); I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");

- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

### Full Name: \*

Mack Christopher Rivenbark, III

### Signature \*

Chris Riverbank

#### Date

9/1/2022

ROY COOPER Governor ELIZABETH S. BISER Secretary MARC RECKTENWALD Director



August 22, 2022

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:

HB-0011, Replace Bridge 26 over Gum Swamp on SR 1928 (Dock Road), Columbus County

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the mitigation for the subject project. Based on the information received from you on August 22, 2022, the impacts are located in CU 03040206 of the Lumber River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Lumber	Stream				Wetlands	Buffer (Sq. Ft.)		
03040206	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres/square feet)	0	0	0	0.080	0	0	0	0

The impacts and associated mitigation needs were not projected by the NCDOT in the 2022 impact data. NCDEQ – DMS commits to implementing sufficient compensatory 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 NCDEQ-DMS.

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

Sincerely,

Clizabeth Harmon

for James B. Stanfill

DMS Deputy Director

cc: Mr. Monte Matthews, USACE – Raleigh

Ms. Amy Chapman, NCDWR Mr. Brad Chilton, NCDOT – EAU

File: HB-0011





## **United States Department of the Interior**

FISH AND WILDLIFE SERVICE
Raleigh ES Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726
August 25, 2022



Gregory W. Price NC Department of Transportation 431 Transportation Drive Fayetteville, NC 28302

Dear Mr. Price:

This letter is in response to your letters of August 18, 2022 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusions of the North Carolina Department of Transportation (NCDOT) that the following three bridge/culvert replacements may affect, but are not likely to adversely affect the federally threatened Waccamaw Silverside (*Menidia extensa*) and wood stork (*Mycteria americana*). In addition, NCDOT has determined that the action will have no effect on the federally endangered red-cockaded woodpecker (*Picoides borealis*) and Cooley's meadowrue (*Thalictrum cooleyii*). The federally threatened northern long-eared bat (*Myotis septentrionalis*) has been previously addressed through a programmatic biological opinion. The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

- HB-0011 replace Bridge No. 230026 over Gum Swamp Run on SR 1928 in Columbus County
- HB-0012 replace Bridge No. 230032 over Waccamaw River Overflow on SR 1928 in Columbus County
- HB-0013 replace Culvert No. 24-2270 over Waccamaw River Overflow on SR 1928 in Columbus County

According to information provided, wood stork surveys were conducted on June 2, 2022. No storks or stork nests were observed. Although there is a known occurrence of Waccamaw Silverside near the action areas, no surveys for Waccamaw Silverside were warranted due to likelihood of the anomalous specimens being washed over Lake Waccamaw's dam and not representing a reproducing population. Based on available information, the Service concurs with your conclusion that the actions may affect, but are not likely to adversely affect the wood stork and Waccamaw Silverside. The Service also concurs with your conclusion that the actions will have no effect on the red-cockaded woodpecker and Cooley's meadowrue.

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 these identified actions that may affect listed species or critical habitat in a manner not previously considered in this review; (2) these actions are 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 these identified actions. If you have any questions regarding our response, please contact Mr. Gary Jordan at <a href="mailto:gary\_jordan@fws.gov">gary\_jordan@fws.gov</a>.

Sincerely,

GARY JORDAN Digitally signed by GARY JORDAN Date: 2022.08.25 08:23:05 -04'00'

for Pete Benjamin Field Supervisor

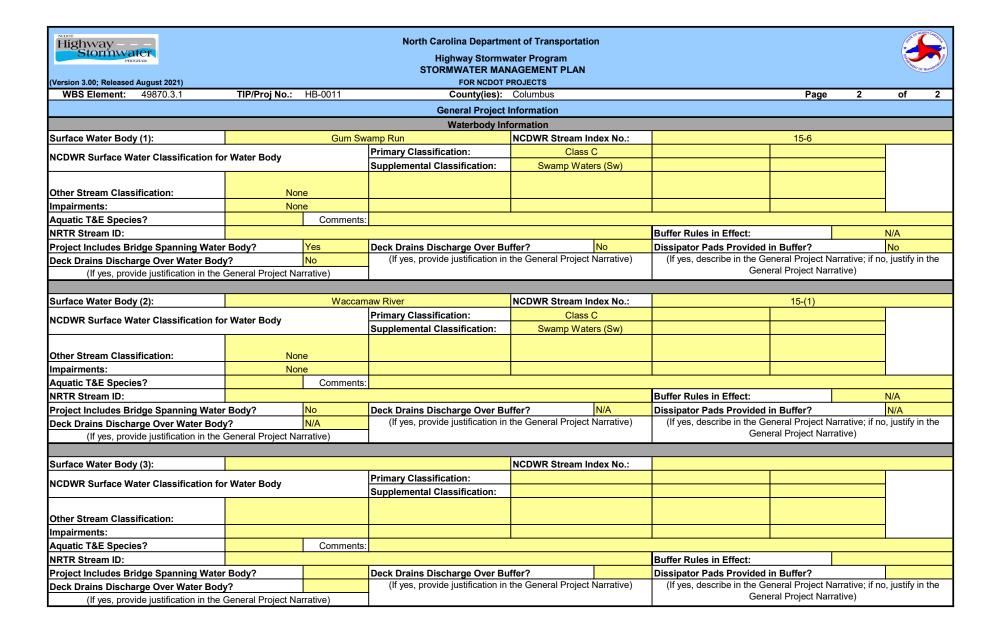
Electronic copy:

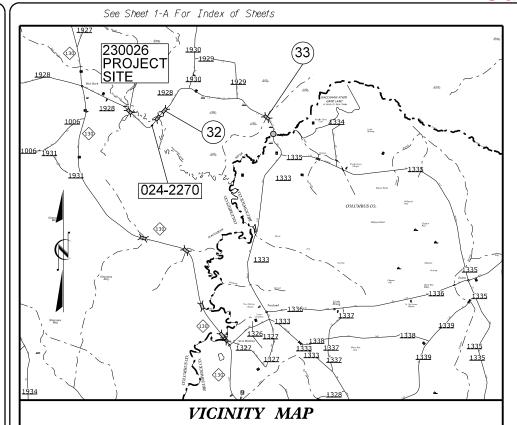
Liz Hair, USACE, Wilmington, NC Travis Wilson, NCWRC, Creedmoor, NC

## Submitted 9/1/2022

	Hig	hway Stormw MWATER MAN FOR NCDOT P	ater Program AGEMENT PLAN ROJECTS	n					STATE OF BANGOR
TIP/Proj No: HB-0011		County(ies):	Columbus				Page	1	of 2
	Ge	neral Project I	nformation						
49872.3.1	TIP Number:	HB-0011		Project	Type:	Bridge Replacement	Date	: 8/	8/2022
Eileen Fuchs			Contractor / Desig			esian Group, P.A.			
	582 (Mail)								
(919) 707-6613				Phone:	(919) 859-	2243			
	teville		County(ies):			arigutodosign.com			
	leville								
			CAMA County :	I INC	J				
103		D							
		•		ultural					
500'			vvooded and Agricu	ıllural					
	Proposed Project								
		ac.							
Two 10' wide travel lanes on a 0.0 gaurds on both sides.	025 ft/ft cross-slope a	and 3' grassed	shoulder. Rail	10' wide lanes	s, sloped at	: 0.017 ft/ft			
Design/Future:	880	Year:	2022	Existing:		880		Year:	2022
The North Carolina Department of	Transportation (NC	DOT) has propo	sed to replace Colu	mbus County E	Bridge #230	0026 on Dock Road (SR	1928) over G	um Swam	p Run. The
spill through abutments. Existing in the proposed bridge was kept to a required for the the proposed bridge	nterior bents for 5-sp minimum to produce ge. The run off from	an bridge will be as little impac the bridge will b	e removed and repla t as possible. To avo e picked up by 2Gl's	ced with a sing id direct discha contained with	gle row of ir arge of brid	terior bents for proposed ge stormwater in Gum Sv	2-span bridg vamp Run, d	e. Excava eck drains	tion beneath are not
	1000 Birch Ridge Drive, Raleigh,  (919) 707-6613  eafuchs@ncdot.gov  Whi  Lumber  Yes  500'  0.3  Two 10' wide travel lanes on a 0.0 gaurds on both sides.  Design/Future:  The North Carolina Department of project is located east of NC 130 stimber piles and vertical timber ab spill through abutments. Existing in the proposed bridge was kept to a required for the the proposed bridge required for the the proposed bridge.	TIP/Proj No: HB-0011  Ge  49872.3.1 TIP Number:  Eileen Fuchs  1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610  (919) 707-6613  eafuchs@ncdot.gov  Whiteville  Lumber  Yes  500' Surrounding L  Proposed Project  0.3  Two 10' wide travel lanes on a 0.025 ft/ft cross-slope a gaurds on both sides.  Design/Future: 880  The North Carolina Department of Transportation (NC project is located east of NC 130 and west of Crusoe timber piles and vertical timber abutments. The existing spill through abutments. Existing interior bents for 5-sp the proposed bridge was kept to a minimum to produce required for the the proposed bridge. The run off from	Highway Stormw STORMWATER MAN FOR NCDOT PTOR	Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS  TIP/Proj No: HB-0011 County(ies): Columbus  General Project Information  49872.3.1 TIP Number: HB-0011  Eileen Fuchs Contractor / Design 1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610  (919) 707-6613  eafuchs@ncdot.gov Whiteville County(ies):  Lumber CAMA County?  Yes  Project Description  500' Surrounding Land Use: Wooded and Agrict Proposed Project Oscillation of the Start	TIP/Proj No: HB-0011 County(ies): Columbus  General Project Information  49872.3.1 TIP Number: HB-0011 Project  Eileen Fuchs Contractor / Designer:  1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610  (919) 707-6613 Phone:  Bafuchs@ncdot.gov Email:  County(ies): Columber  CAMA County? Notes Project Description  Surrounding Land Use: Wooded and Agricultural  Proposed Project  0.3 ac.  Two 10' wide travel lanes on a 0.025 ft/ft cross-slope and 3' grassed shoulder. Rail gaurds on both sides.  Design/Future: 880 Year: 2022 Existing:  The North Carolina Department of Transportation (NCDOT) has proposed to replace Columbus County project is located east of NC 130 and west of Crusoe Island Road (SR 1930). The existing structure is a timber piles and vertical timber abutments. The existing structure will be removed and replaced with a sing the proposed bridge was kept to a minimum to produce as little impact as possible. To avoid direct disch the proposed bridge was kept to a minimum to produce as little impact as possible. To avoid direct disch	Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS  TIP/Proj No: HB-0011 County(ies): Columbus  General Project Information  49872.3.1 TIP Number: HB-0011 Project Type:  Eileen Fuchs Contractor / Designer: Sungate D 1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610 Address: 905 Jones Raleigh, N (919) 707-6613 Phone: (919) 859- eafuchs@ncdot.gov Email: idalton@s  Whiteville County(ies): Columbus  Lumber CAMA County? No  Yes  Project Description  500' Surrounding Land Use: Wooded and Agricultural  Proposed Project 0.3 ac. 0.2  Two 10' wide travel lanes on a 0.025 ft/ft cross-slope and 3' grassed shoulder. Rail gaurds on both sides.  Design/Future: 880 Year: 2022 Existing:  The North Carolina Department of Transportation (NCDOT) has proposed to replace Columbus County Bridge #236 project is located east of NC 130 and west of Crusoe Island Road (SR 1930). The existing structure is a 1@18', 3@ timber piles and vertical timber abutments. The existing structure will be removed and replaced with a 2@55' 21" Pr spill through abutments. Existing interior bents for 5-span bridge will be removed and replaced with a single row of ir the proposed bridge was kept to a minimum to produce as little impact as possible. To avoid direct discharge of bridge required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the the proposed bridge. The run off from the bridge will be picked up by 2GI's contained within shoulder required for the prop	Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS  TIP/Proj No: HB-0011 County(ies): Columbus  General Project Information  49872.3.1 TIP Number: HB-0011 Project Type: Bridge Replacement  Eileen Fuchs Sungate Design Group, P.A.  1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610  General Project Description  Whiteville County(ies): Columbus  Lumber Project Description  Surrounding Land Use: Wooded and Agricultural  Proposed Project  Proposed Project  Sungate Design Group, P.A.  Address: Sungate Design Group, P.A.  Baleigh, NC 27606  Raleigh, NC 27606  Benail: idalton@sungatedesign.com  CAMA County? No  Project Description  Surrounding Land Use: Wooded and Agricultural  Proposed Project  Surrounding Land Use: Wooded and Agricultural  Proposed Project Existing Site  0.3 ac. 0.2 ac.  Two 10' wide travel lanes on a 0.025 ft/ft cross-slope and 3' grassed shoulder. Rail gaurds on both sides.  Design/Future: 880 Year: 2022 Existing: 880  The North Carolina Department of Transportation (NCDOT) has proposed to replace Columbus County Bridge #230026 on Dock Road (SR project is located east of NC 130 and west of Crusoe Island Road (SR 1930). The existing structure is a 1@18', 3'@17', "@18' reinforced co timber piles and vertical timber abutments. The existing structure will be removed and replaced with a 2@55' 21' Prestressed Concrete Corspill through abutments. Existing interior bents for 5-span bridge will be removed and replaced with a 3'mile row of interior bents for proposed the proposed bridge. The run off from the bridge will be picked up by 2G's contained within shoulder bern gutter and will out required for the the proposed bridge. The run off from the bridge will be picked up by 2G's contained within shoulder bern gutter and will out required for the the proposed bridge. The run off from the bridge will be picked up by 2G's contained within shoulder bern gutter and will out required for the the proposed bridge. The run off from the bridge will be picked up by	Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS  TIP/Proj No: HB-0011 County(ies): Columbus Page    County(ies): Columbus Project Type: Bridge Replacement Date	Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCODY PROJECTS  TIP/Proj No: HB-0011

## Submitted 9/1/2022





STATE OF NORTH CAROLINA PERMIT DRAWING SHEET 1 OF 10 DIVISION OF HIGHWAYS

DATE: 08-08-2022

N.C. HB-0011 1 STATE PROJ. NO. DESCRIPTION 49872.3.1 PE 49872.3.1 UTIL., R/W 49872.3.1 CONST.

# COLUMBUS COUNTY

LOCATION: BRIDGE# 230026 OVER GUM SWAMP RUN ON SR 1928 (DOCK ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE





1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107

SHEET TOTAL SHEETS

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

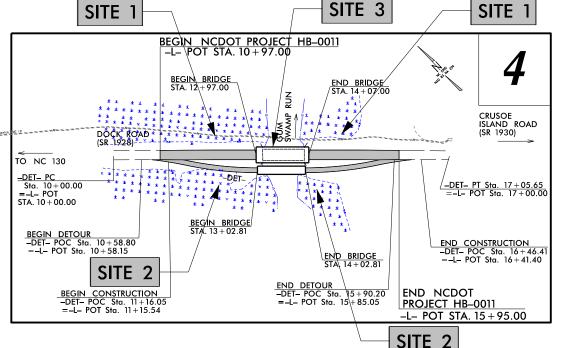
BRIDGE# 230026

# EXPRESS DESIGN BRIDGE REPLACEMENT: DIVISION 6

## PRELIMINARY PLANS

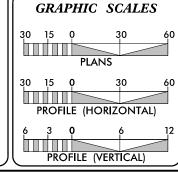
BRIDGE #: 230026

SUBMITTAL #: A-001 SUBMITTAL DATE: 6 /24 /22



## WETLAND AND SURFACE WATER IMPACTS PERMIT

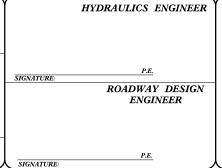
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II MODIFIED DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA ADT 2022 = 880 ADT FY = NADHV = N/A $D = N/\Delta$ T = 6 % \*V = 55 MPH(TTST = 3% + DUAL = 3%)FUNC CLASS = LOCAL **REGIONAL TIER** 

PROJECT LENGTH LENGTH ROADWAY PROJECT HB-0011 = 0.073 MILES LENGTH STRUCTURE PROJECT HB-0011 = 0.021 MILES TOTAL LENGTH PROJECT HB-0011 = 0.094 MILES EILEEN FUCHS NCDOT CONTACT: PRIORITY PROIECTS UNIT

DIVISION OF HIGHWAYS 1000 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 2018 STANDARD SPECIFICATIONS EDWARD G. WETHERILL, PE RIGHT OF WAY DATE: MARCH 15, 2022 LETTING DATE: GREG S. PURVIS, PE MARCH 15, 2022



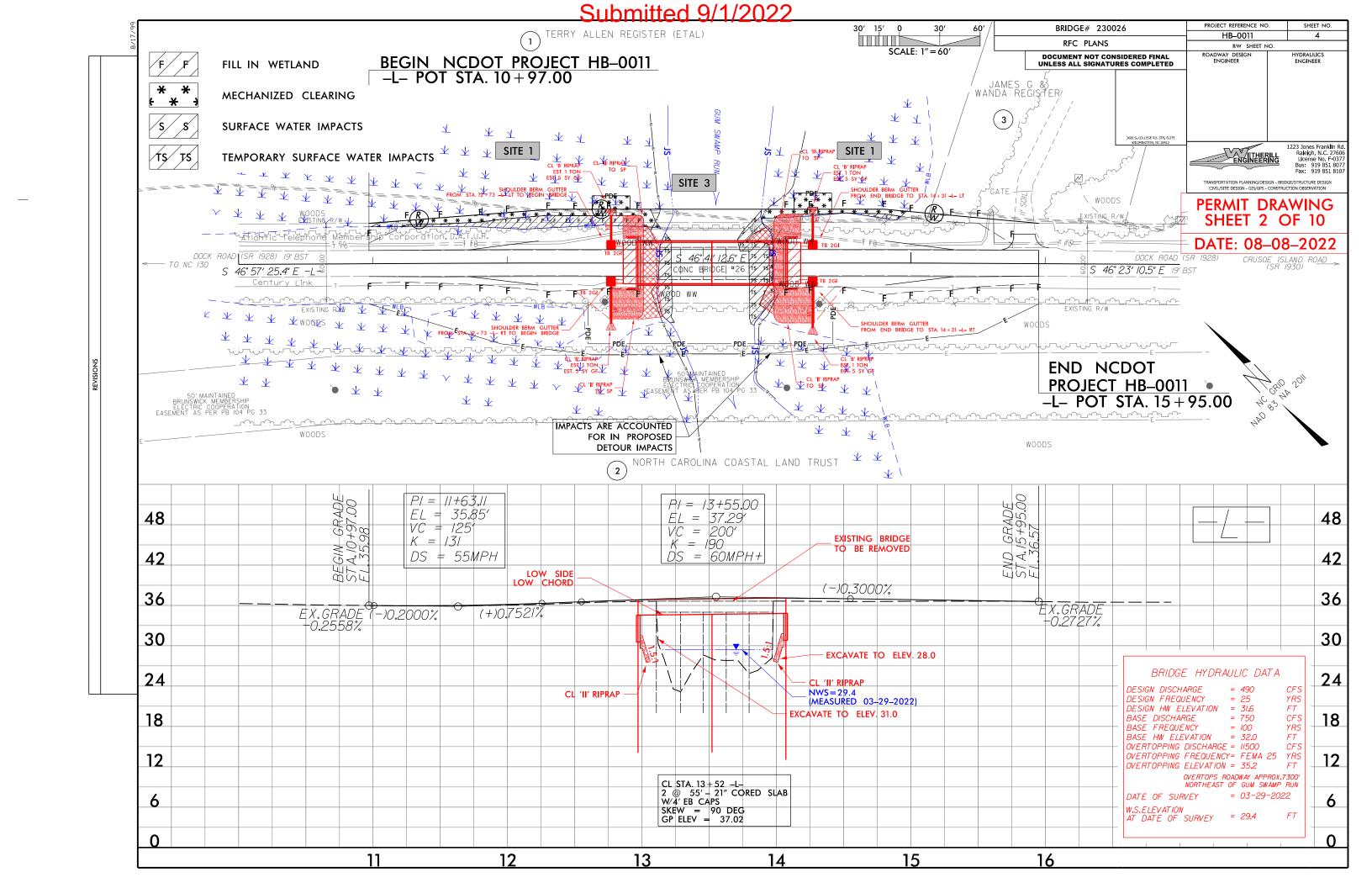


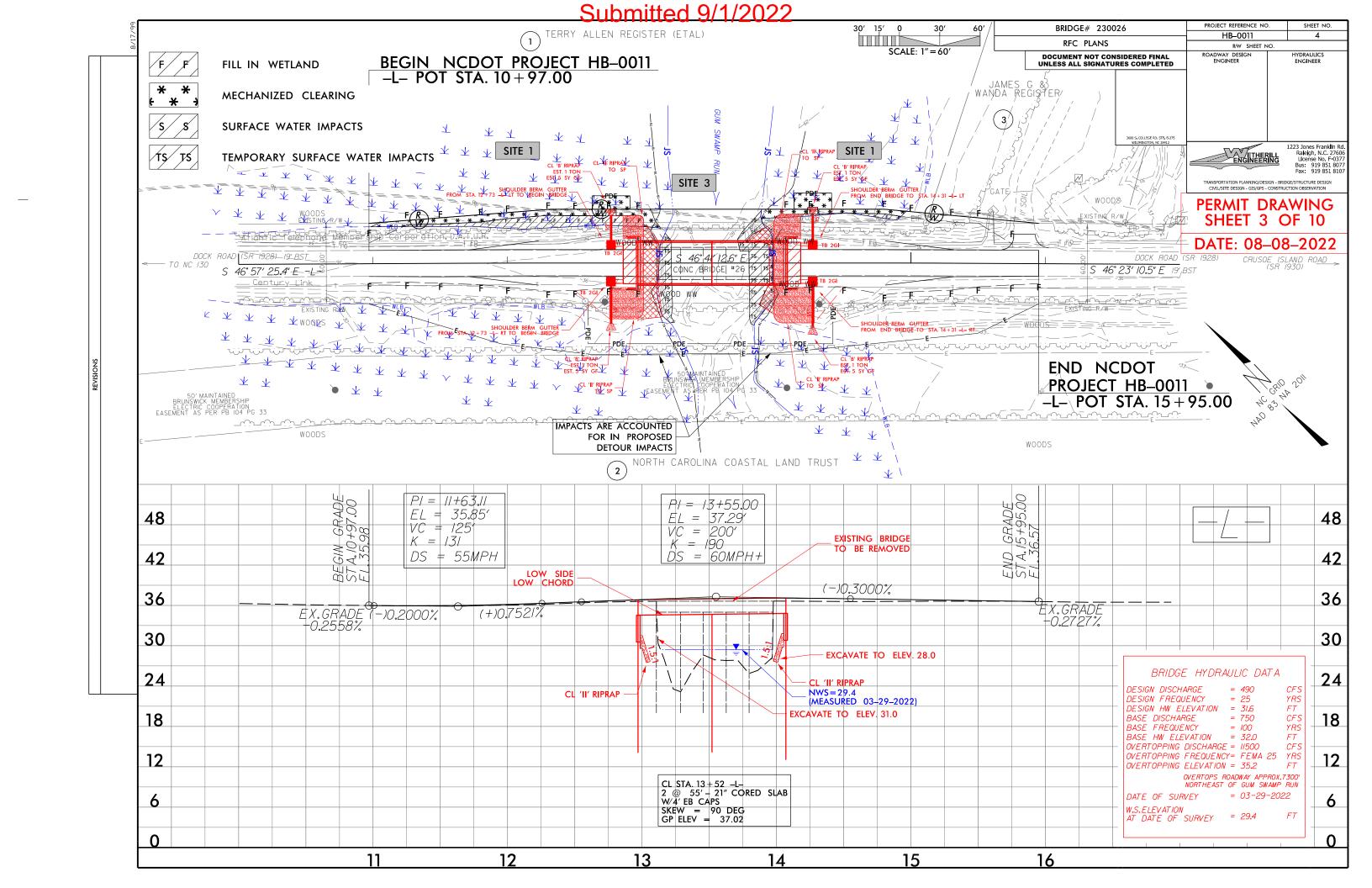
C204713 NTR

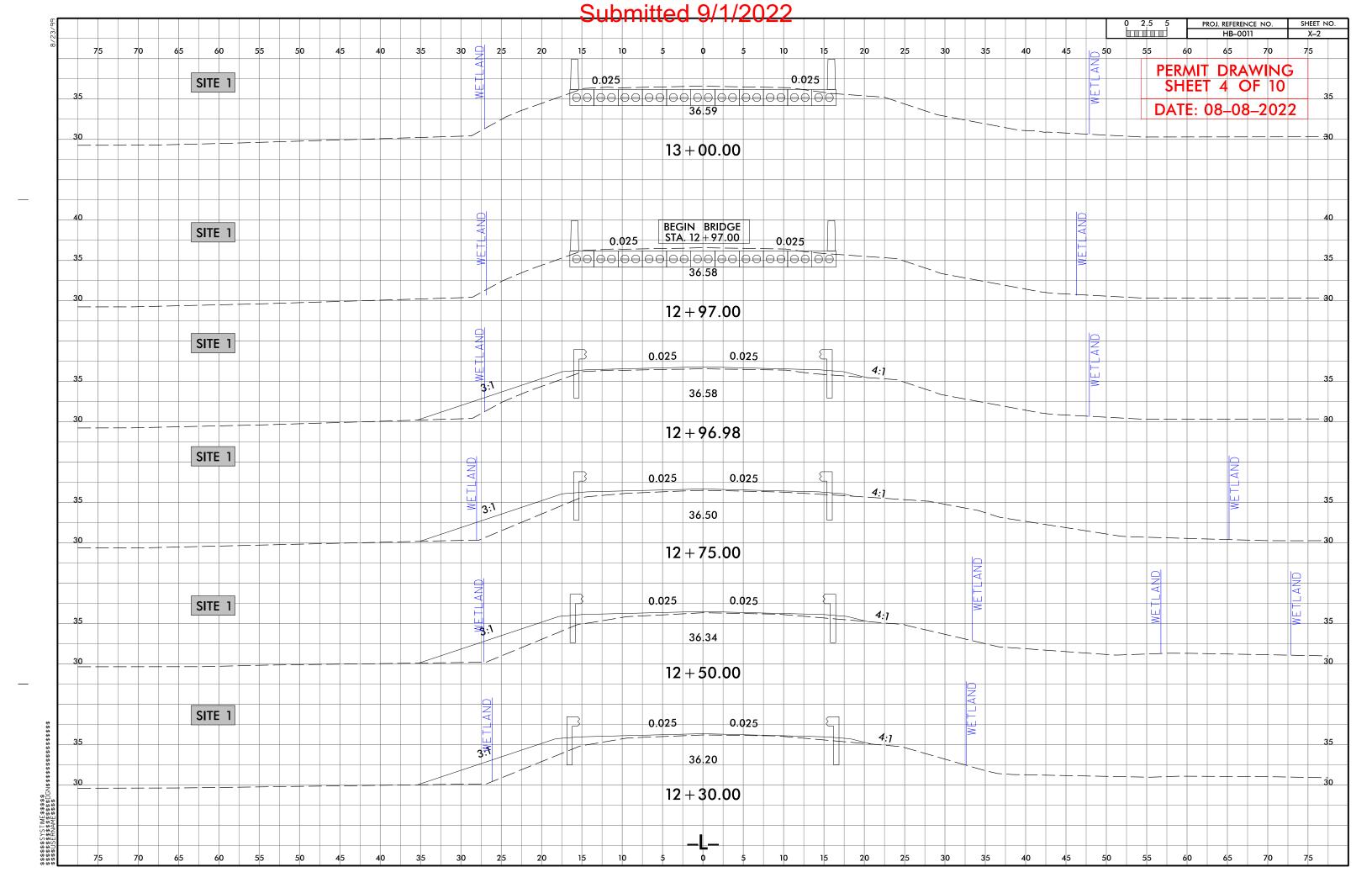
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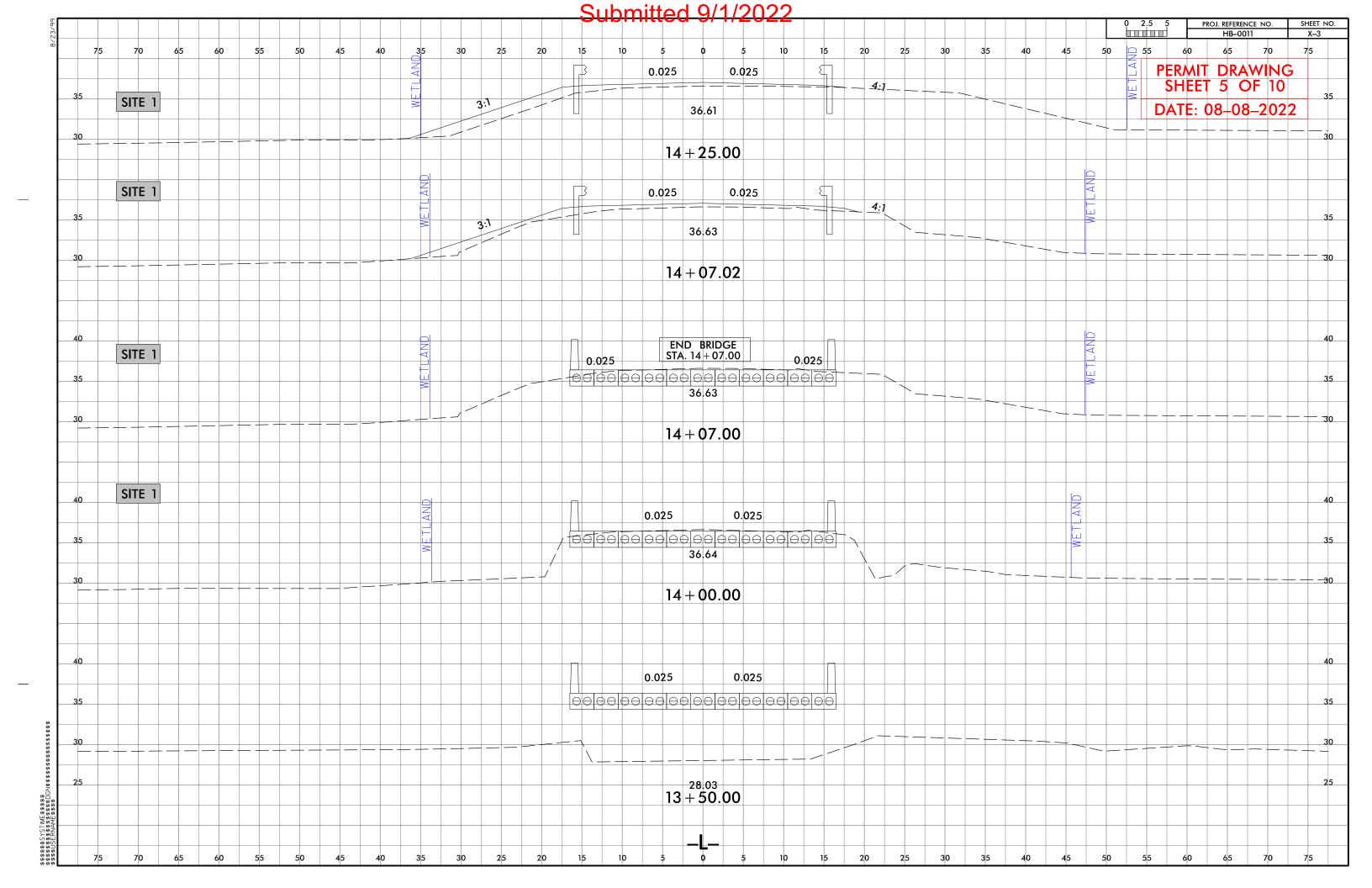
HB

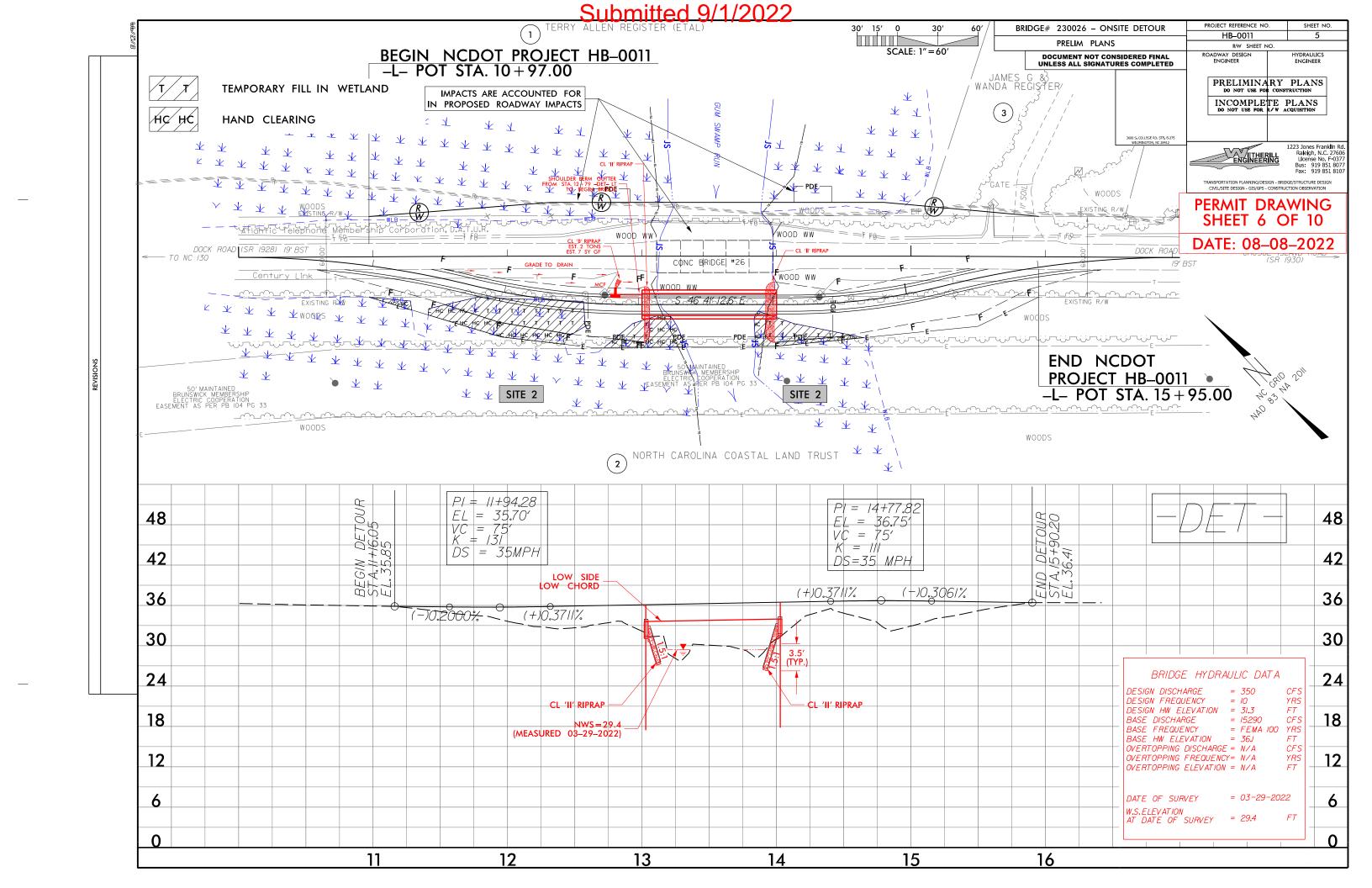
**PROIEC** 

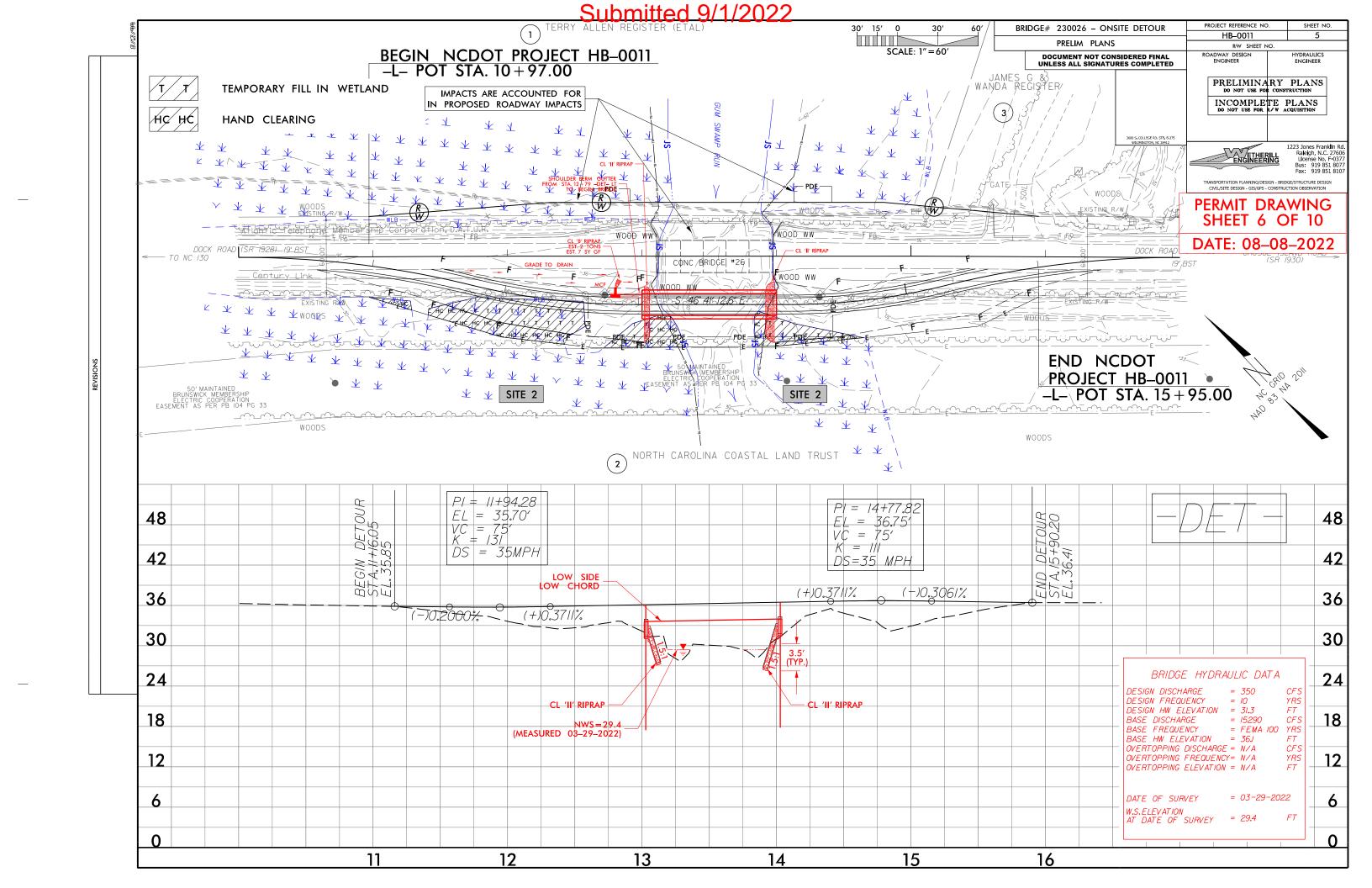


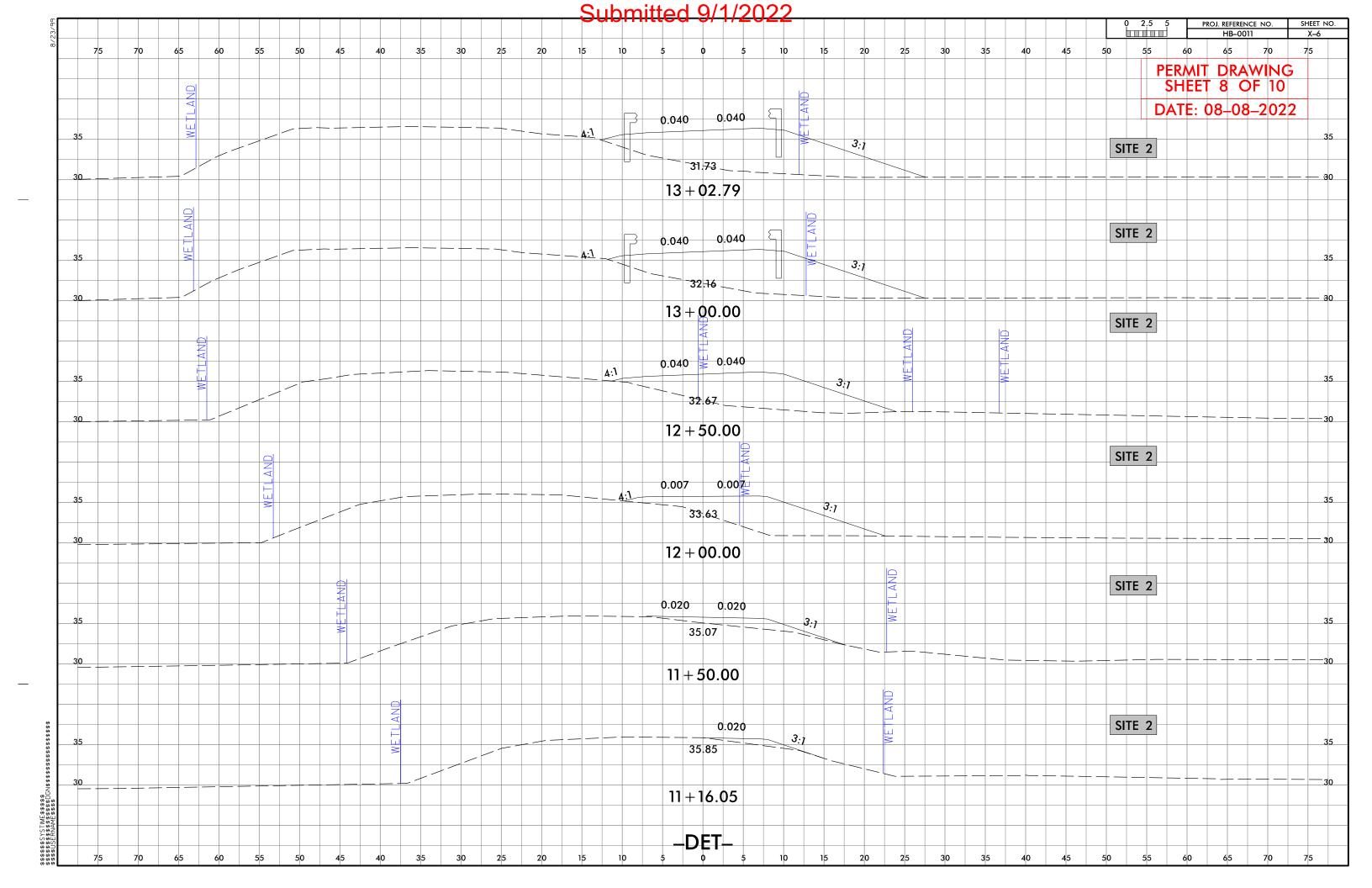


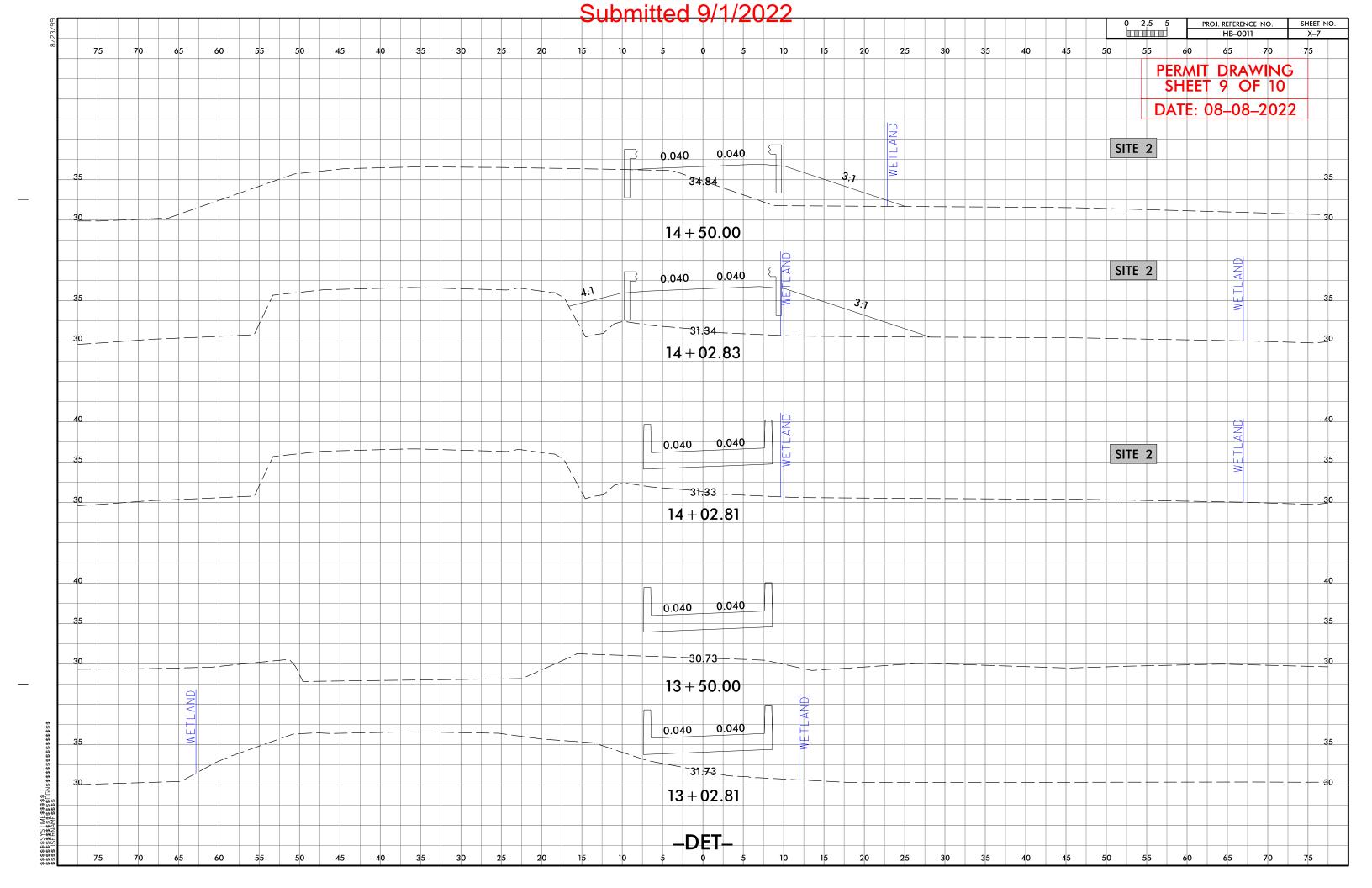












## Submitted 9/1/2022

				WE	TLAND IMP	PACTS		(	SURFACE	WATER IM	PACTS	
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)
1	10+98 to 13+11 -L-LT	ROADWAY FILL	0.03			0.03						
	13+89 to 14+96-L-LT	ROADWAY FILL	< 0.01			0.02						
2	11+04 to 11+35-DET-RT	ROADWAY FILL					< 0.01					
	11+47 to 12+62-DET-RT	ROADWAY FILL		0.04			0.02					
	12+68 to 13+18-DET-RT	ROADWAY FILL		< 0.01			0.02					
	13+86 to 14+65-DET-RT	ROADWAY FILL		0.02			< 0.01					
3	13+14 to 13+27-L-	BANK STABILIZATION									86	
	13+75 to 14+22-L-	BANK STABILIZATION								61		
-+												
OTAL	C*·		0.03	0.06		0.05	0.05			61	86	0

<sup>\*</sup>Rounded totals are sum of actual impacts

NOTES:

Interior pile impacts: 1.48 sf x 8=11.84 sf (0.0003 ac)

There will be 0.01 acre of temporary fill in the hand clearing area for erosion control measures

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08-17-2022
COLUMBUS COUNTY
HB-0011
BRG 230026
SHEET 10 OF 10

Revised 2018 Feb



This form is intended for use by anyone requesting a jurisdictional determination (JD) from the U.S. Army Corps of Engineers, Wilmington District (Corps). Please include all supporting information, as described within each category, with your request. You may submit your request via mail, electronic mail, or facsimile. Requests should be sent to the appropriate project manager of the county in which the property is located. A current list of project managers by assigned counties can be found on-line at:

http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram/Contact/CountyLocator.aspx, by calling 910-251-4633, or by contacting any of the field offices listed below. Once your request is received you will be contacted by a Corps project manager.

## ASHEVILLE & CHARLOTTE REGULATORY FIELD OFFICES

US Army Corps of Engineers 151 Patton Avenue, Room 208 Asheville, North Carolina 28801-5006 General Number: (828) 271-7980 Fax Number: (828) 281-8120

#### RALEIGH REGULATORY FIELD OFFICE

US Army Corps of Engineers 3331 Heritage Trade Drive, Suite 105 Wake Forest, North Carolina 27587 General Number: (919) 554-4884 Fax Number: (919) 562-0421

#### WASHINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 2407 West Fifth Street Washington, North Carolina 27889 General Number: (910) 251-4610 Fax Number: (252) 975-1399

#### WILMINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403 General Number: 910-251-4633 Fax Number: (910) 251-4025

#### **INSTRUCTIONS:**

## All requestors must complete Parts A, B, C, D, E, F and G.

NOTE TO CONSULTANTS AND AGENCIES: If you are requesting a JD on behalf of a paying client or your agency, please note the specific submittal requirements in **Part H**.

NOTE ON PART D – PROPERTY OWNER AUTHORIZATION: Please be aware that all JD requests must include the current property owner authorization for the Corps to proceed with the determination, which may include inspection of the property when necessary. This form must be signed by the current property owner(s) or the owner(s) authorized agent to be considered a complete request.

<u>NOTE ON PART D - NCDOT REQUESTS:</u> Property owner authorization/notification for JD requests associated with North Carolina Department of Transportation (NCDOT) projects will be conducted according to the current NCDOT/USACE protocols.

NOTE TO USDA PROGRAM PARTICIPANTS: A Corps approved or preliminary JD 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 also request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

<b>A.</b>	PARCEL INFORMATION Street Address:
	City, State:
	County:
	Parcel Index Number(s) (PIN):
В.	REQUESTOR INFORMATION Name:
	Mailing Address:
	Talanhana Number
	Telephone Number:
	Electronic Mail Address:  Select one:
	I am the current property owner.
	I am an Authorized Agent or Environmental Consultant <sup>1</sup>
	Interested Buyer or Under Contract to Purchase
	Other, please explain.
C.	PROPERTY OWNER INFORMATION <sup>2</sup> Name:
	Mailing Address:
	Telephone Number:
	Electronic Mail Address:

Page 2 Version: May 2017

Must provide completed Agent Authorization Form/Letter.
 Documentation of ownership also needs to be provided with request (copy of Deed, County GIS/Parcel/Tax Record).

## D. PROPERTY ACCESS CERTIFICATION<sup>3,4</sup>

By signing below, I authorize representatives of the Wilmington District, U.S. Army Corps of Engineers (Corps) to enter upon the property herein described for the purpose of conducting onsite investigations, if necessary, and issuing a jurisdictional determination pursuant to Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. I, the undersigned, am either a duly authorized owner of record of the property identified herein, or acting as the duly authorized agent of the owner of record of the property.

Print Name	
Capacity: Owner	Authorized Agent <sup>5</sup>
Date	
Signature	
E. REASON FO	R JD REQUEST: (Check as many as applicable)
designed to avoid all a   I intend to construct designed to avoid all justice   I intend to construct authorization impacts to jurisdiction process.  I intend to construct authorization and the JD is to be used   I intend to construct   I intend	ruct/develop a project or perform activities on this parcel which would be aquatic resources. ruct/develop a project or perform activities on this parcel which would be urisdictional aquatic resources under Corps authority. truct/develop a project or perform activities on this parcel which may from the Corps, and the JD would be used to avoid and minimize nal aquatic resources and as an initial step in a future permitting truct/develop a project or perform activities on this parcel which may from the Corps; this request is accompanied by my permit application sed in the permitting process. truct/develop a project or perform activities in a navigable water of the ed on the district Section 10 list and/or is subject to the ebb and flow of the equired in order obtain my local/state authorization. The est jurisdiction over a particular aquatic resource and request the Corpution does/does not exist over the aquatic resource on the parcel. The estie may be comprised entirely of dry land.

<sup>&</sup>lt;sup>3</sup> For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.

<sup>&</sup>lt;sup>4</sup> If there are multiple parcels owned by different parties, please provide the following for each additional parcel on a continuation sheet.

<sup>&</sup>lt;sup>5</sup> Must provide agent authorization form/letter signed by owner(s).

F.	JURISDICTIONAL DETERMINATION (JD) TYPE (Select One)
	I am requesting that the Corps provide a <u>preliminary</u> JD for the property identified herein.
	A Preliminary Jurisdictional Determination (PJD) provides an indication that there may be "waters of the United States" or "navigable waters of the United States" on a property. PJDs are sufficient as the basis for permit decisions. For the purposes of permitting, all waters and wetlands on the property will be treated as if they are jurisdictional "waters of the United States". PJDs cannot be appealed (33 C.F.R. 331.2); however, a PJD is "preliminary" in the sense that an approved JD can be requested at any time. PJDs do not expire.
	I am requesting that the Corps provide an <u>approved</u> JD for the property identified herein.
	An Approved Jurisdictional Determination (AJD) is a determination that jurisdictional "waters of the United States" or "navigable waters of the United States" are either present or absent on a site. An approved JD identifies the limits of waters on a site determined to be jurisdictional under the Clean Water Act and/or Rivers and Harbors Act. Approved JDs are sufficient as the basis for permit decisions. AJDs are appealable (33 C.F.R. 331.2). The results of the AJD will be posted on the Corps website. A landowner, permit applicant, or other "affected party" (33 C.F.R. 331.2) who receives an AJD may rely upon the AJD for five years (subject to certain limited exceptions explained in Regulatory Guidance Letter 05-02).
	I am unclear as to which JD I would like to request and require additional information to inform my decision.
G.	ALL REQUESTS
	Map of Property or Project Area. This Map must clearly depict the boundaries of the review area.
	Size of Property or Review Area acres.
	The property boundary (or review area boundary) is clearly physically marked on the site.

H.	REQUESTS FROM CONSULTANTS
	Project Coordinates (Decimal Degrees): Latitude:  Longitude:
	A legible delineation map depicting the aquatic resources and the property/review area. Delineation maps must be no larger than 11x17 and should contain the following: (Corps signature of submitted survey plats will occur after the submitted delineation map has been reviewed and approved). <sup>6</sup>
	<ul> <li>North Arrow</li> </ul>
	<ul> <li>Graphical Scale</li> </ul>
	<ul> <li>Boundary of Review Area</li> </ul>
	<ul><li>Date</li></ul>
	<ul> <li>Location of data points for each Wetland Determination Data Form or tributary assessment reach.</li> </ul>
<u>F</u>	or Approved Jurisdictional Determinations:
	<ul> <li>Jurisdictional wetland features should be labeled as Wetland Waters of the US, 404 wetlands, etc. Please include the acreage of these features.</li> </ul>
	• Jurisdictional non-wetland features (i.e. tidal/navigable waters, tributaries, impoundments) should be labeled as Non-Wetland Waters of the US, stream, tributary, open water, relatively permanent water, pond, etc. Please include the acreage or linear length of each of these features as appropriate.
	Isolated waters, waters that lack a significant nexus to navigable waters, or non-jurisdictional upland features should be identified as Non-Jurisdictional. Please include a justification in the label regarding why the feature is non-jurisdictional (i.e. "Isolated", "No Significant Nexus", or "Upland Feature"). Please include the acreage or linear length of these features as appropriate.
<u>Fo</u>	or Preliminary Jurisdictional Determinations:
	Wetland and non-wetland features should not be identified as Jurisdictional, 404, Waters of the United States, or anything that implies jurisdiction. These features can be identified as Potential Waters of the United States, Potential Non-wetland Waters of the United States, wetland, stream, open water, etc. Please include the acreage and linear length of these features as appropriate.
	Completed Wetland Determination Data Forms for appropriate region (at least one wetland and one upland form needs to be completed for each wetland type)

<sup>&</sup>lt;sup>6</sup> Please refer to the guidance document titled "Survey Standards for Jurisdictional Determinations" to ensure that the supplied map meets the necessary mapping standards. <a href="http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/">http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/</a>

<ul> <li>Completed appropriate Jurisdictional Determination form</li> <li>PJDs, please complete a Preliminary Jurisdictional Determination Form<sup>7</sup> and include the Aquatic Resource Table</li> <li>AJDs, please complete an Approved Jurisdictional Determination Form<sup>8</sup></li> </ul>
Vicinity Map
Aerial Photograph
USGS Topographic Map
Soil Survey Map
Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)
Landscape Photos (if taken)
NCSAM and/or NCWAM Assessment Forms and Rating Sheets
NC Division of Water Resources Stream Identification Forms
Other Assessment Forms

**Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

**Routine Uses:** This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USAGE website.

**Disclosure:** Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

<sup>&</sup>lt;sup>7</sup> www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL\_08-02\_App\_A\_Prelim\_JD\_Form\_fillable.pdf

<sup>&</sup>lt;sup>8</sup> Please see http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/

## Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

## **BACKGROUND INFORMATION**

A. REPORT COM	IPLETION DATE FOR PJD:							
B. NAME AND A	B. NAME AND ADDRESS OF PERSON REQUESTING PJD:							
C. DISTRICT OFF	FICE, FILE NAME, AND NUMBER:							
(USE THE TABLE	CATION(S) AND BACKGROUND INFORM BELOW TO DOCUMENT MULTIPLE AC IRCES AT DIFFERENT SITES)							
State:	County/parish/borough:	City:						
Center coordin	ates of site (lat/long in degree decimal form	mat):						
Lat.:	Long.:							
Universal Trans	sverse Mercator:							
Name of neare	st waterbody:							
	FORMED FOR SITE EVALUATION (CHECK)  k) Determination. Date:	CK ALL THAT APPLY):						
Field Deter	mination. Date(s):							
TABLE OF AQUA	TIC RESOURCES IN REVIEW AREA WHICH JURISDICTION.	"MAY BE" SUBJECT TO REGULATORY						

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary: (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

## SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in s below where indicated for all checked	subject file. Appropriately reference sources items:
	d by or on behalf of the PJD requestor:
Office concurs with data sheets	or on behalf of the PJD requestor.  /delineation report. a sheets/delineation report. Rationale:
☐ Data sheets prepared by the Corps	s:
Corps navigable waters' study:	
U.S. Geological Survey Hydrologic	: Atlas:
USGS NHD data.	
USGS 8 and 12 digit HUC map	
	e scale & quad name:
□ Natural Resources Conservation S	ervice Soil Survey. Citation:
☐ National wetlands inventory map(s	). Cite name:
State/local wetland inventory map(	s):
	(National Geodetic Vertical Datum of 1929
Photographs: Aerial (Name &	Date):
or Other (Name &	Date):
_	. and date of response letter:
Other information (please specify):	
MPORTANT NOTE: The information rec	corded on this form has not necessarily not be relied upon for later jurisdictional
ignature and date of egulatory staff member ompleting PJD	Gregory W. Price 8-24-2022 Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable) <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

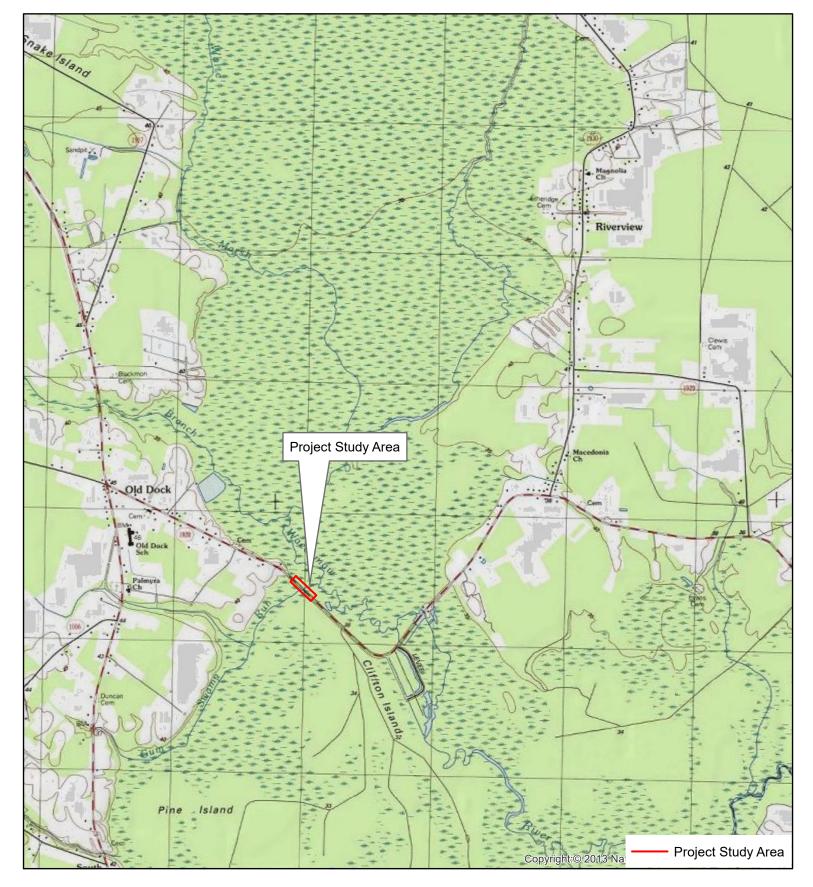






Figure 1. Vicinity Map WBS No. 49870.1.1 Replace Bridge 26 on SR 1928 over Gum Swamp Run Columbus County

			Miles
0	0.25	0.5	1

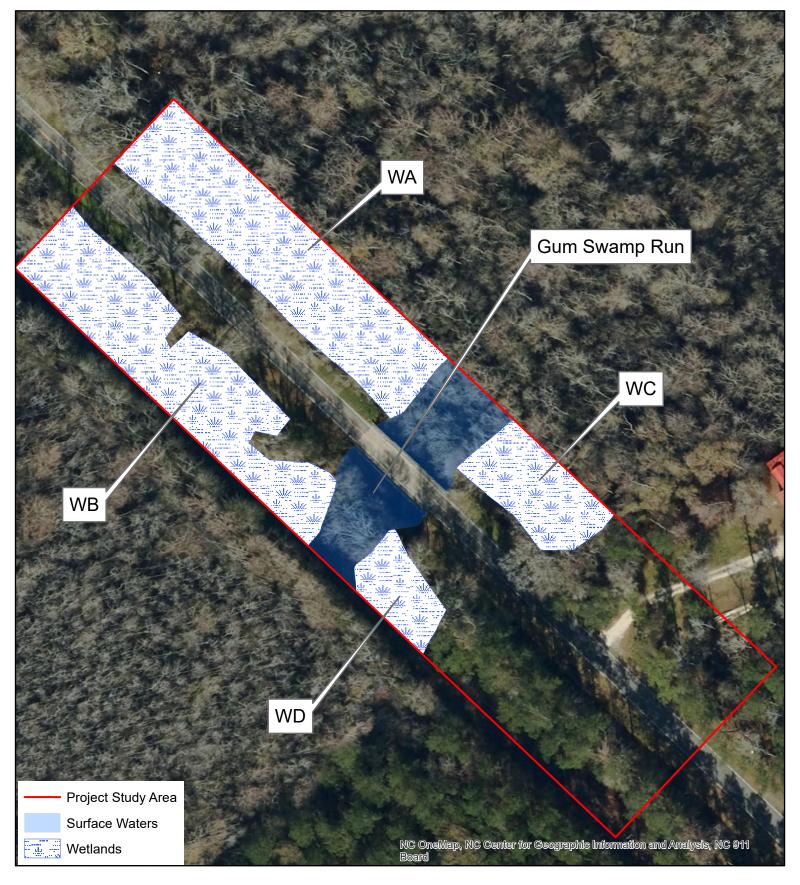






Figure 2. Jurisdictional Features Map WBS No. 49870.1.1 Replace Bridge 26 on SR 1928 over Gum Swamp Run Columbus County

					Feet
0	25	50	100	150	200

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dock Road - Brid	ge 26	City/C	ounty: Columbus		Sampling Date:	1/12/22
Applicant/Owner: NCDOT		State: NC	Sampling Point:	Wetland		
Investigator(s): Greg Price		Section	on, Township, Range: _			
		Local	relief (concave, convex	. none): Concave	. Slor	pe (%): 0
Subregion (LRR or MLRA): LRF	<u> </u>	Lat: 34.160500	I ona:	-78.580715		atum.
Landform (hillslope, terrace, etc.) Subregion (LRR or MLRA): LRF Soil Map Unit Name: Muckalee	Sandy Loam		Long.	NIWI classific	eation: PFO1/20	2
Are climatic / hydrologic condition	as on the site typical for	this time of year? V	oo X	(If no explain in B	lomarka )	
Are Vegetation, Soil						No
						NO
Are Vegetation, Soil			•	explain any answe	•	
SUMMARY OF FINDINGS	i – Attach site ma	ap showing sam	pling point locati	ons, transects	, important fo	eatures, etc.
Hydrophytic Vegetation Present	t? Yes X	No	Is the Sampled Area			
Hydric Soil Present?	Yes X	No	within a Wetland?		No	
Hydric Soil Present? Wetland Hydrology Present?	Yes X	No	within a Wetland:	163	NO	_
Remarks:						
Point taken near WA	19 flag.					
HYDROLOGY						
	<u> </u>			Secondary Indica	atoro (minimum of	f two required)
Wetland Hydrology Indicators Primary Indicators (minimum of		all that apply)		Surface Soil	-	two required)
Surface Water (A1)		atic Fauna (B13)			getated Concave	Surface (PR)
High Water Table (A2)		Deposits (B15) <b>(LRF</b>	5 11/	Drainage Pa	-	Surface (Bb)
Saturation (A3)		rogen Sulfide Odor (C		Moss Trim Li		
Water Marks (B1)		-	long Living Roots (C3)		Water Table (C2)	)
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bur		
Drift Deposits (B3)		ent Iron Reduction in	, ,		isible on Aerial Im	nagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		✓ Geomorphic	Position (D2)	
Iron Deposits (B5)	Othe	er (Explain in Remark	s)	Shallow Aqu	itard (D3)	
Inundation Visible on Aeria	I Imagery (B7)			FAC-Neutral	Test (D5)	
✓ Water-Stained Leaves (B9)	ı			Sphagnum n	noss (D8) (LRR T	.⁻, U)
Field Observations:						
	Yes No					
	Yes No				X	
Saturation Present? (includes capillary fringe)	Yes X No	Depth (inches): 0	Wetland	Hydrology Preser	nt? Yes <u>^</u>	
Describe Recorded Data (stream	m gauge, monitoring we	ell, aerial photos, pre	vious inspections), if av	ailable:		
Remarks:						

## **VEGETATION (Four Strata) –** Use scientific names of plants.

<u>Free Stratum</u> (Plot size: 30' )				T =
		Dominant Species?		Dominance Test worksheet:
Taxodium distichum	40	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Quercus laurelfolia	30	Yes	FACW	That Ale OBL, FACW, OF FAC (A)
Acer rubrum	- <del>10</del>		FAC	Total Number of Dominant
Acertubium			170	Species Across All Strata: 3 (B)
				Percent of Dominant Species
-				That Are OBL, FACW, or FAC: 100 (A/B
				December of the december of
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	00	= Total Cov	er	OBL species <u>40</u> x 1 = <u>40</u>
50% of total cover:				FACW species $40$ $x 2 = 80$
apling/Shrub Stratum (Plot size: 15' )		10101 00101	·	FAC species $\underline{10}$ $x 3 = \underline{30}$
Outgroup laurelfolia	10	Yes	FACW	FACU species x 4 =
•				UPL species x 5 =
				Column Totals: 90 (A) 150 (B)
				(b)
-				Prevalence Index = B/A = $\frac{1.7}{}$
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	20% 01	total cover.		
lerb Stratum (Plot size: 5' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
. <u>N/A</u>				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
L				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
l				more in diameter at breast height (DBH), regardless of
5				height.
i.				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•				Herb – All herbaceous (non-woody) plants, regardless
·				of size, and woody plants less than 3.28 ft tall.
0				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2				
		= Total Cov	er	
	20% of	total cover		
50% of total cover:	20 /0 01			
	20 /0 01			
Voody Vine Stratum (Plot size: 30' )				
Voody Vine Stratum (Plot size: 30' ) N/A				
Voody Vine Stratum (Plot size: 30' )  N/A				
Voody Vine Stratum (Plot size: 30' ) N/A				
Noody Vine Stratum (Plot size: 30' )  N/A				
Voody Vine Stratum (Plot size: 30' ) N/A				Hydrophytic
Voody Vine Stratum (Plot size: 30' )  N/A				Hydrophytic Vegetation Present? Yes X No

SOIL Sampling Point: Wetland

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirm	the absence o	f indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)		Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-12	10YR 3/1	_ <u>100</u> _					Sandy loam		
				- ——					
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=R	Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Mat	rix.
Hydric Soil	Indicators: (Appli	cable to all LI	RRs, unless othe	rwise note	ed.)		Indicators fo	or Problematic Hydric	: Soils³:
☐ Histosol	(A1)		Polyvalue Be	elow Surfac	ce (S8) <b>(L</b>	.RR S, T, L	J) 🔲 1 cm Mu	ıck (A9) <b>(LRR O)</b>	
	oipedon (A2)		Thin Dark Su		. , .		· —	ıck (A10) (LRR S)	
	stic (A3)		Loamy Muck					d Vertic (F18) (outside	MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye			,		nt Floodplain Soils (F19	
_	d Layers (A5)		Depleted Ma		,			ous Bright Loamy Soils	, , , , ,
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		6)			A 153B)	` ′
	icky Mineral (A7) (L		Depleted Da	•	•		,	ent Material (TF2)	
_	esence (A8) (LRR I		Redox Depre					allow Dark Surface (TF	12)
	ıck (A9) (LRR P, T)	•	Marl (F10) (L		•		—	Explain in Remarks)	<i>'</i>
	d Below Dark Surfac	ce (A11)	Depleted Oc		MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan				T) <sup>3</sup> Indicat	tors of hydrophytic veg	etation and
	rairie Redox (A16) (	MLRA 150A)	Umbric Surfa	ace (F13) <b>(I</b>	LRR P, T	, U)	wetla	nd hydrology must be	present,
Sandy N	lucky Mineral (S1)	LRR O, S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)		unles	s disturbed or problem	atic.
Sandy C	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) <b>(I</b>	MLRA 15	0A, 150B)			
Sandy F	Redox (S5)		Piedmont Flo	oodplain So	oils (F19)	(MLRA 14	19A)		
Stripped	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (	F20) <b>(MLR</b>	A 149A, 153C, 1	153D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed)	:							
Type:			<u></u>						
Depth (in	ches):						Hydric Soil P	resent? Yes X	No
Remarks:							1		

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Dock Road - Bridge 26	City/Co	<sub>unty:</sub> Columbus		Sampling Date:	1/12/22
Applicant/Owner: NCDOT			State: NC		
Investigator(s): Greg Price	, Township, Range: B				
Landform (hillslope, terrace, etc.); Terrace	Local re	elief (concave, convex,	none): None	Slop	oe (%): 0
Subregion (LRR or MLRA): LRR	Lat: 34.160335	Long:	78.580570	 Dat	tum: NAD 83
Subregion (LRR or MLRA): LRR  Soil Map Unit Name: Muckalee Sandy Loam	_		NWI classific	cation: PFO1/2C	
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					No
Are Vegetation, Soil, or Hydrology			explain any answe		
SUMMARY OF FINDINGS – Attach site ma					eatures, etc.
	· · ·		<u> </u>	<u> </u>	·
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X	s the Sampled Area		V	
Wetland Hydrology Present? Yes	No X No X	within a Wetland?	Yes	No X	_
Remarks:					
Point taken south WA 20 flag.					
HYDROLOGY					
Wetland Hydrology Indicators:	-11 4141- \		_	ators (minimum of	two required)
Primary Indicators (minimum of one is required; check a			Surface Soil		Curface (DO)
	atic Fauna (B13) Deposits (B15) <b>(LRR</b>	II)	Drainage Pa	getated Concave ( tterns (B10)	Surface (Bo)
	ogen Sulfide Odor (C1		Moss Trim L		
	ized Rhizospheres alo			Water Table (C2)	
Sediment Deposits (B2)	ence of Reduced Iron	(C4)	Crayfish Bur	rows (C8)	
	ent Iron Reduction in T	illed Soils (C6)		isible on Aerial Im	agery (C9)
1 <del></del>	Muck Surface (C7)			Position (D2)	
	r (Explain in Remarks)	)	Shallow Aqu  FAC-Neutral	, ,	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)				noss (D8) <b>(LRR T</b>	. U)
Field Observations:			<u> </u>		, -,
Surface Water Present? Yes No X	Depth (inches):				
Water Table Present? Yes No X					
Saturation Present? Yes No X	Depth (inches):	Wetland H	lydrology Preser	nt? Yes	No <u>X</u>
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previ	us inspections), if ava	ilable:		
Remarks:					

## **VEGETATION (Four Strata) –** Use scientific names of plants.

201	Absolute	Dominant		Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size: 30' )		Species?		Number of Dominant Species				
1. Quercus virginiana	_ 30	Yes	FACU	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)				
2. Pinus taeda		Yes	FAC	Total Number of Dominant				
3. Acer rubrum	10		FAC	Species Across All Strata: 4 (B)				
4. Liquidambar styraciflua	10		FAC					
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)				
6.				That Are OBL, FACW, or FAC.				
				Prevalence Index worksheet:				
7				Total % Cover of: Multiply by:				
8	70			OBL species x 1 =				
	= Total Cover			FACW species x 2 =				
50% of total cover:	20% of	total cover:		FAC species $50$ $\times 3 = 150$				
Sapling/Shrub Stratum (Plot size: 15')								
1. Quercus virginiana	10	Yes	FACU					
2.				UPL species x 5 =				
3.				Column Totals: 90 (A) 310 (B)				
4.				D 1 1 1 20 34				
				Prevalence Index = B/A = 3.4				
5				Hydrophytic Vegetation Indicators:				
6				1 - Rapid Test for Hydrophytic Vegetation				
7				2 - Dominance Test is >50%				
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>				
	10	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
50% of total cover:	20% of	total cover:						
Herb Stratum (Plot size: 5'				<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
1. N/A				be present, unless disturbed or problematic.				
				Definitions of Four Vegetation Strata:				
2				Definitions of Four Vegetation Strata.				
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or				
4				more in diameter at breast height (DBH), regardless of				
5				height.				
6				Sapling/Shrub – Woody plants, excluding vines, less				
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.				
8				Harb All borbaccous (non woody) plants, regardless				
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
10				<b>Woody vine</b> – All woody vines greater than 3.28 ft in				
11				height.				
12								
		er						
50% of total cover:	20% of	total cover:						
Woody Vine Stratum (Plot size: 30')								
1. Smilax rotundifolia	10	Yes	FAC					
2								
3.								
4.								
_								
5	10			Hydrophytic				
	10	= Total Cov		Vegetation         Yes No X				
50% of total cover:	20% of	total cover:		130 130				

Sampling Point: Upland

SOIL Sampling Point: Upland

Profile Desc	cription: (Describe to	the depth	needed to docu	ment the i	ndicator	or confirm	n the absence o	f indicato	rs.)	
Depth	Matrix			x Features		. 2	<b>-</b> .			
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-4	10YR 3/1						Loam			
4-12+	10YR 4/2						Sandy loam			
				-						_
							·			
<sup>1</sup> Tyne: C=C	oncentration, D=Deple	tion RM=R	educed Matrix M	- <del></del> S=Masked	Sand Gr	ains	<sup>2</sup> Location: F	PI =Pore Li	ining, M=Matı	riy
	Indicators: (Applicat					uiiio.			natic Hydric	
☐ Histosol			Polyvalue Be		•	RRSTI		ıck (A9) <b>(L</b>	-	
	pipedon (A2)		Thin Dark Su		. , .			ick (A10) <b>(</b>	•	
	istic (A3)		Loamy Muck							MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gley			,				) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	itrix (F3)	ŕ		Anomalo	ous Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P, 1	Γ, U)	Redox Dark	Surface (F	6)		(MLRA	A 153B)		
	ucky Mineral (A7) (LRF	R P, T, U)	Depleted Da					ent Materi	` '	
	resence (A8) (LRR U)		Redox Depre		3)				Surface (TF	12)
	uck (A9) (LRR P, T)		Marl (F10) (I	•			U Other (E	xplain in F	Remarks)	
I <b>=</b>	d Below Dark Surface	(A11)	Depleted Oc				3			
<del>'=</del> '	ark Surface (A12)		Iron-Mangar		. , .		•	-	Irophytic vege	
	rairie Redox (A16) (ML					, U)		-	ogy must be p	
_	Mucky Mineral (S1) (LF	KK (), (S)	Delta Ochric			0.A 450D\		s disturbe	d or problema	atic.
_	Gleyed Matrix (S4) Redox (S5)		Reduced Ve							
	Matrix (S6)						8A 149A, 153C, ′	153D)		
	rface (S7) <b>(LRR P, S</b> ,	T. U)	Anomalous i	ongni Loai	ily Solis (	1 20) (IVILIV	A 143A, 133C,	1330)		
	Layer (if observed):	., 0,								
Type:	, , , , , , , , , , , , , , , , , , , ,									
l	ches):						Hydric Soil P	rocont?	Yes	No X
	CHE3).		<del></del>				Tiyane 3011 F	ieseiit:	163	
Remarks:										
i										