

# Project Submittal Interim Form



Updated September 4, 2020

*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.*

- Project Type: \***
- For the Record Only (Courtesy Copy)
  - New Project
  - Modification/New Project with Existing ID
  - More Information Response
  - Other Agency Comments
  - Pre-Application Submittal
  - Re-Issuance\Renewal Request
  - Stream or Buffer Appeal

**Pre-Filing Meeting Date Request was submitted on:**

8/1/2022

## Project Contact Information

**Name:** NCDOT  
*Who is submitting the information?*

**Email Address: \*** jldilday1@ncdot.gov

## Project Information

<b>Existing ID #: *</b>	<b>Existing Version: *</b>
20221187	1
<i>20170001 (no dashes)</i>	<i>1</i>

**Project Name: \*** Pipe 24-2270 over Waccamaw River Overflow on SR1928

**Is this a public transportation project? \***

- Yes
- No

**Is this a DOT project? \***

- Yes
- No

**Is the project located within a NC DCM Area of Environmental Concern (AEC)? \***

- Yes
- No
- Unknown

<b>TIP#:</b>	<b>WBS#:</b>
HB-0013	49872.1.1
	<i>(Applies to DOT projects only)</i>

**County (ies) \***

Columbus

**Please upload all files that need to be submitted.**

[Click the upload button or drag and drop files here to attach document](#)

HB-0013 PJD Table Revised.pdf	45.57KB
HB-0013_PJD Features Revised.pdf	579.79KB
HB-0013 Revised Permit Drawings.pdf	4.96MB

[Only pdf or kmz files are accepted.](#)


**Describe the attachments or add comments:**

After field verification with USACE on 11/02/2022, the area in the northeast quadrant of the project was changed from a surface water to a wetland. As a result of this change, in the area of the temporary on-site detour, impacts to jurisdictional resources have changed. These changes resulted in an increase of 0.18 acre of temporary wetland impact, an increase of 0.05 acre of handclearing in wetlands and an increase of 93 linear feet of temporary stream impact. These changes do not require any additional mitigation for the project.

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

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, 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 agree that submission of this online 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 online form.



**Signature: \***





**Submission Date:**

11/9/2022

[Is filled in automatically once submitted.](#)

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 3.00; Released August 2021)							
WBS Element:	49872.3.1	TIP/Proj No:	HB-0013 / BP-024-2270	County(ies):	Columbus	Page 1 of 2	
General Project Information							
WBS Element:	49872.3.1	TIP Number:	HB-0013 / BP-024-2270	Project Type:	Bridge Replacement	Date:	5/2/2022
NCDOT Contact:	Eileen Fuchs		Contractor / Designer:		Sungate Design Group P.A.		
Address:	1582 MSC, Raleigh, NC 27699-1582 (Mail) 1000 Birch Ridge Drive, Raleigh, NC 27610		Address:	905 Jones Franklin Road Raleigh, NC 27606			
Phone:	(919) 707-6613		Phone:	(919) 859-2243			
Email:	<a href="mailto:efuchs@ncdot.gov">efuchs@ncdot.gov</a>		Email:	<a href="mailto:jdalton@sungatedesign.com">jdalton@sungatedesign.com</a>			
City/Town:	Whiteville		County(ies):	Columbus			
River Basin(s):	Lumber		CAMA County?	No			
Wetlands within Project Limits?	Yes						
Project Description							
Project Length (lin. miles or feet):	654'		Surrounding Land Use:	Wooded and Agricultural			
Proposed Project				Existing Site			
Project Built-Up Area (ac.)	0.4		ac.	0.4		ac.	
Typical Cross Section Description:	Two 10' wide travel lanes with 3' grass shoulders and 3:1 fill slopes.			Two 10' wide lanes.			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	Year:	Existing:	700	Year:	2020	
General Project Narrative: (Description of Minimization of Water Quality Impacts)	HB-0013 proposes to replace a 3@72" RCP culvert on Dock Road over the Waccamaw River Floodplain with a 4@50' - 21" cored slab bridge. No deck drains will be installed, reducing any impacts associated with direct bridge roadway runoff. Existing drainage patterns are maintained. Rock-plated fill slopes will be put in place near the bridge to reduce impacts to jurisdictional features.						

		North Carolina Department of Transportation Highway Stormwater Program <b>STORMWATER MANAGEMENT PLAN</b> FOR NCDOT PROJECTS					
(Version 3.00; Released August 2021)							
<b>WBS Element:</b> 49872.3.1		<b>TIP/Proj No.:</b> HB-0013 / BP-024-2270		<b>County(ies):</b> Columbus		<b>Page</b> 2 <b>of</b> 2	
<b>General Project Information</b>							
<b>Waterbody Information</b>							
<b>Surface Water Body (1):</b>		Waccamaw River		<b>NCDWR Stream Index No.:</b>		15-(1)	
<b>NCDWR Surface Water Classification for Water Body</b>			<b>Primary Classification:</b>		Class C		
			<b>Supplemental Classification:</b>		Swamp Waters (Sw)		
<b>Other Stream Classification:</b>		None					
<b>Impairments:</b>		None					
<b>Aquatic T&amp;E Species?</b>		No		<b>Comments:</b>			
<b>NRTR Stream ID:</b>				<b>Buffer Rules in Effect:</b>		N/A	
<b>Project Includes Bridge Spanning Water Body?</b>		Yes		<b>Deck Drains Discharge Over Buffer?</b>		N/A	
<b>Deck Drains Discharge Over Water Body?</b>		No		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
		(If yes, provide justification in the General Project Narrative)					

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PERMIT DRAWING  
SHEET 1 OF 9

DATE: 11-08-2022

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HB-0013	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49872.3.1		PE	
49872.3.1		UTIL., RW	
49872.3.1		CONST.	

# COLUMBUS COUNTY

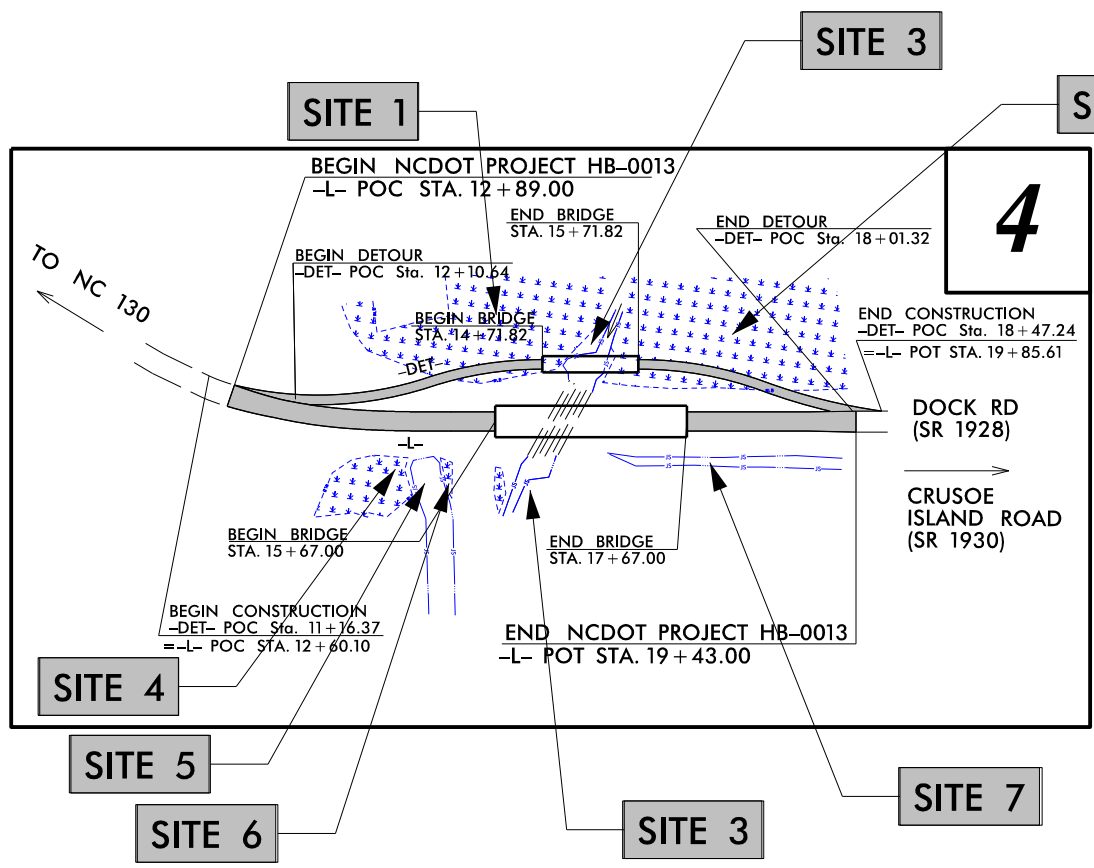
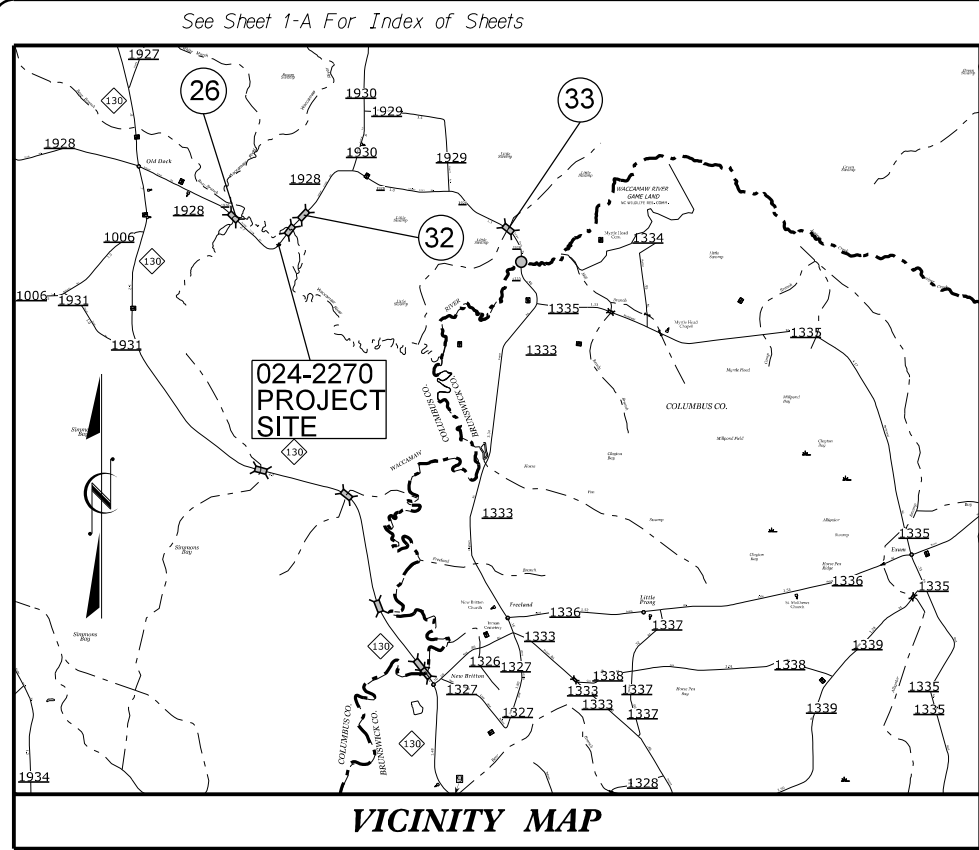
LOCATION: PIPE #24-2270 OVER OVERFLOW FOR WACCAMAW RIVER  
ON SR 1928 (DOCK ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

3600 S. COLLEGE RD. STE. E-375  
WILMINGTON, NC 28412

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

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



PIPE# 24-2270

**EXPRESS DESIGN BRIDGE REPLACEMENT: DIVISION 6**

**PRELIMINARY PLANS**

BRIDGE #: 24-2270  
SUBMITTAL #: S-0XX  
SUBMITTAL DATE: X /XX /XX

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

<p><b>GRAPHIC SCALES</b></p> <p>30 15 0 30 60 PLANS</p> <p>30 15 0 30 60 PROFILE (HORIZONTAL)</p> <p>6 3 0 6 12 PROFILE (VERTICAL)</p>	<p><b>DESIGN DATA</b></p> <p>ADT 2022 = 880 ADT FY = N/A DHV = N/A D = N/A T = 6 % * V = 55 MPH * (TTST = 3% + DUAL = 3%) FUNC CLASS = LOCAL REGIONAL TIER</p>	<p><b>PROJECT LENGTH</b></p> <p>LENGTH ROADWAY PROJECT HB-0013 = 0.086 MILES LENGTH STRUCTURE PROJECT HB-0013 = 0.038 MILES TOTAL LENGTH PROJECT HB-0013 = 0.124 MILES</p>		<p>Prepared for: <b>DIVISION OF HIGHWAYS</b> 1000 BIRCH RIDGE DRIVE, RALEIGH, NC 27610</p> <p>2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: MARCH 15, 2022 LETTING DATE: MARCH 15, 2022</p> <p>EDWARD G. WETHERILL, PE PROJECT ENGINEER</p> <p>GREG S. PURVIS, PE PROJECT DESIGN ENGINEER</p>	<p><b>HYDRAULICS ENGINEER</b></p> <p>SIGNATURE: _____ P.E. ROADWAY DESIGN ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	
		<p>NCDOT CONTACT: EILEEN FUCHS PRIORITY PROJECTS UNIT</p>				

CONTRACT: C204713 PROJECT: HB-0013  
 SYSTEM TIME: \$\$\$\$  
 DONOR: \$\$\$\$  
 USERNAME: \$\$\$\$

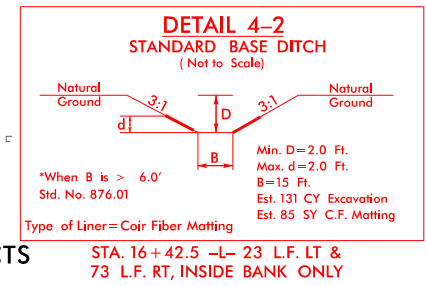
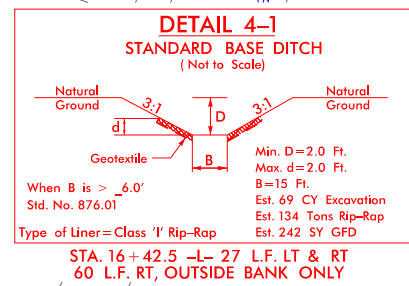
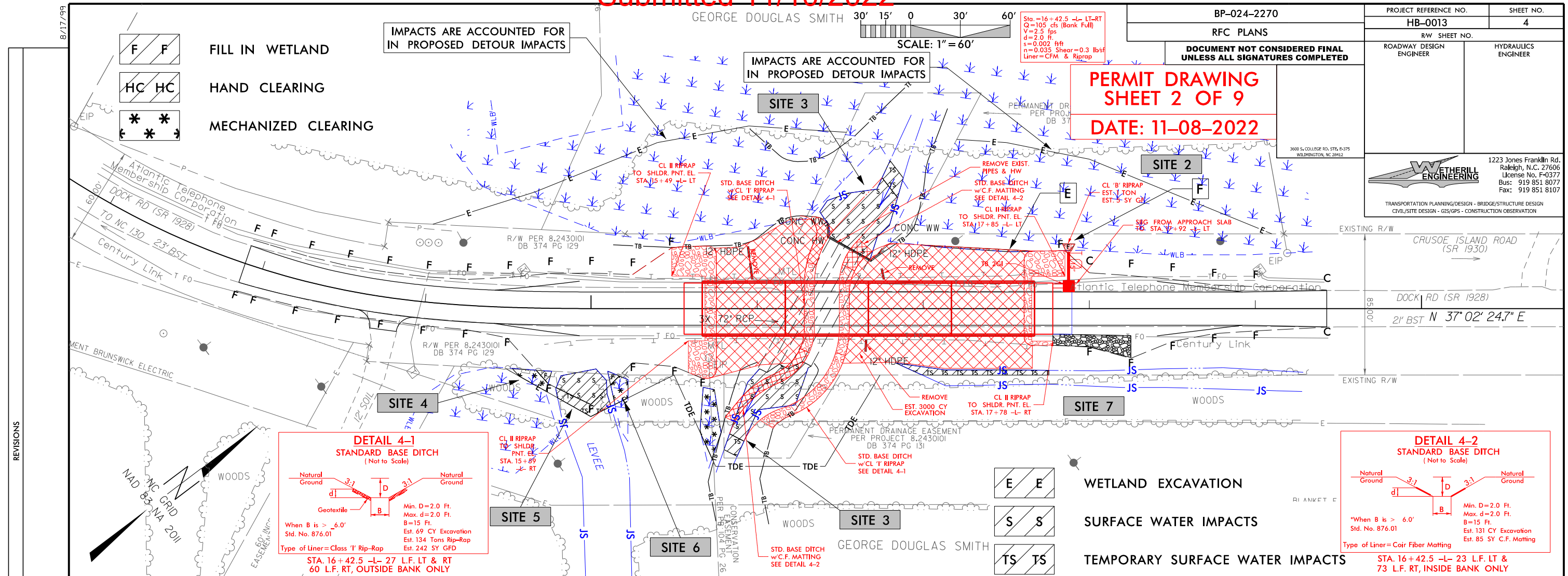
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 V=2.5 fps  
 d=2.0  
 s=0.002 ft/ft  
 n=0.035 Shear=0.3 lbf/ft  
 Liner=CFM & Riprap

PROJECT REFERENCE NO. <b>HB-0013</b>		SHEET NO. <b>4</b>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
<b>PERMIT DRAWING SHEET 2 OF 9 DATE: 11-08-2022</b>		
WETHERILL ENGINEERING 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION		

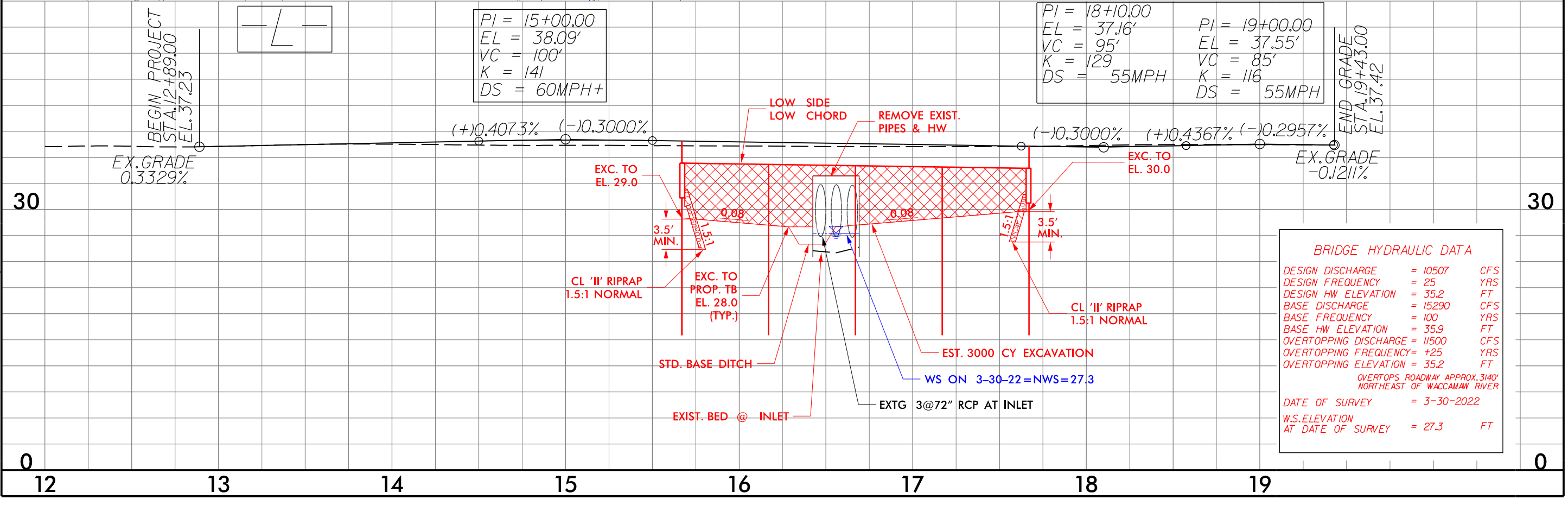
- F F** FILL IN WETLAND
- HC HC** HAND CLEARING
- \* \*** MECHANIZED CLEARING

IMPACTS ARE ACCOUNTED FOR IN PROPOSED DETOUR IMPACTS

IMPACTS ARE ACCOUNTED FOR IN PROPOSED DETOUR IMPACTS



REVISIONS



Sta. = 16+42.5 -L- RT  
 Q = 105 cfs (Bank Full)  
 V = 2.5 fps  
 d = 2.0  
 s = 0.002 ft/ft  
 n = 0.035 Shear = 0.3 lbf/ft  
 Liner = CFM & Riprap

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PERMIT DRAWING  
 SHEET 3 OF 9

DATE: 11-08-2022

HB-0013 4

RW SHEET NO. HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

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

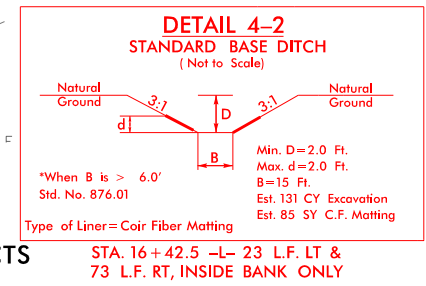
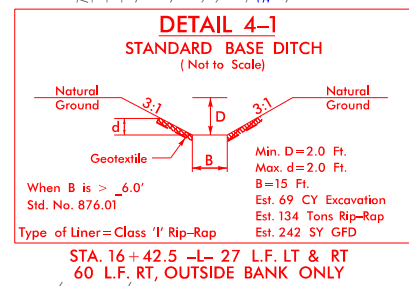
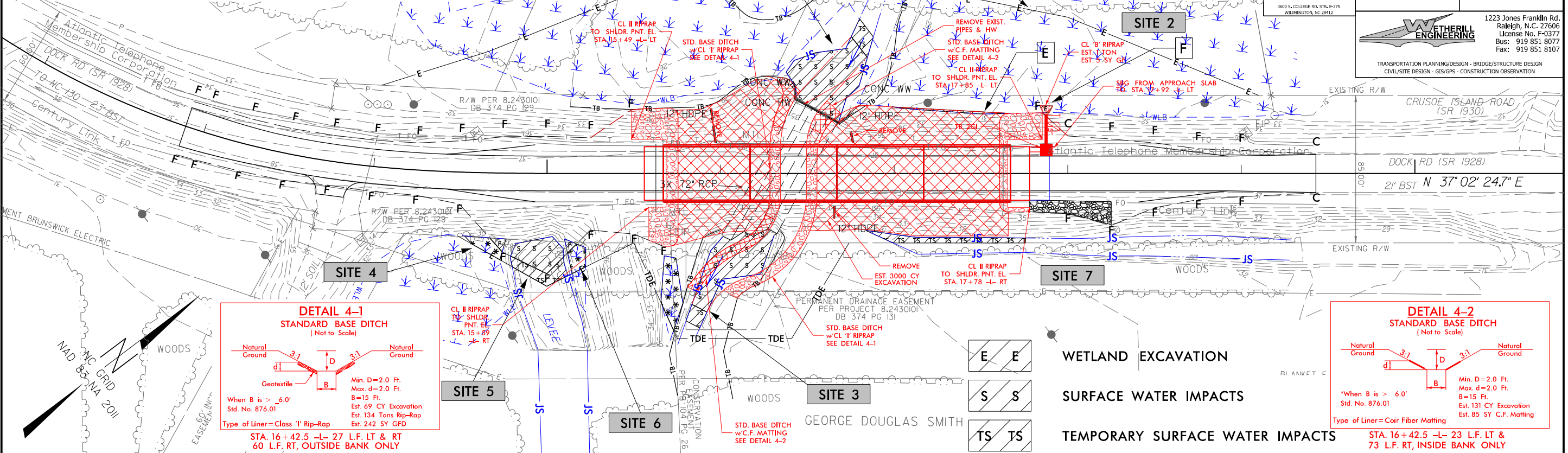
WETHERILL ENGINEERING

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 Raleigh, N.C. 27606  
 License No. F-0377  
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- F F** FILL IN WETLAND
- HC HC** HAND CLEARING
- \* \*** MECHANIZED CLEARING

IMPACTS ARE ACCOUNTED FOR  
 IN PROPOSED DETOUR IMPACTS

IMPACTS ARE ACCOUNTED FOR  
 IN PROPOSED DETOUR IMPACTS



- E E** WETLAND EXCAVATION
- S S** SURFACE WATER IMPACTS
- TS TS** TEMPORARY SURFACE WATER IMPACTS

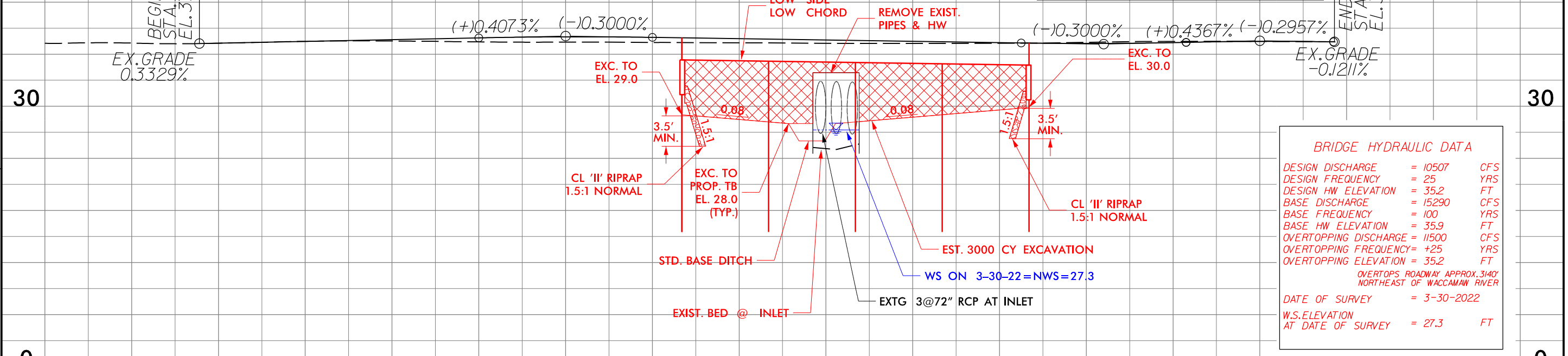
BEGIN PROJECT  
 STA. 12+89.00  
 EL. 37.23

PI = 15+00.00  
 EL = 38.09'  
 VC = 100'  
 K = 141  
 DS = 60MPH+

PI = 18+10.00  
 EL = 37.16'  
 VC = 95'  
 K = 129  
 DS = 55MPH

PI = 19+00.00  
 EL = 37.55'  
 VC = 85'  
 K = 116  
 DS = 55MPH

END GRADE  
 STA. 19+43.00  
 EL. 37.42



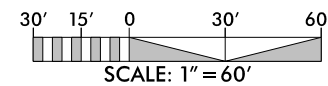
**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 10507	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 35.2	FT
BASE DISCHARGE	= 15290	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 35.9	FT
OVERTOPPING DISCHARGE	= 11500	CFS
OVERTOPPING FREQUENCY	= +25	YRS
OVERTOPPING ELEVATION	= 35.2	FT
OVERTOPS ROADWAY APPROX. 3140' NORTHEAST OF WACCAMAW RIVER		
DATE OF SURVEY	= 3-30-2022	
W.S. ELEVATION AT DATE OF SURVEY	= 27.3	FT





GEORGE DOUGLAS SMITH



BP-024-2270 ONSITE DETOUR

RFC PLANS

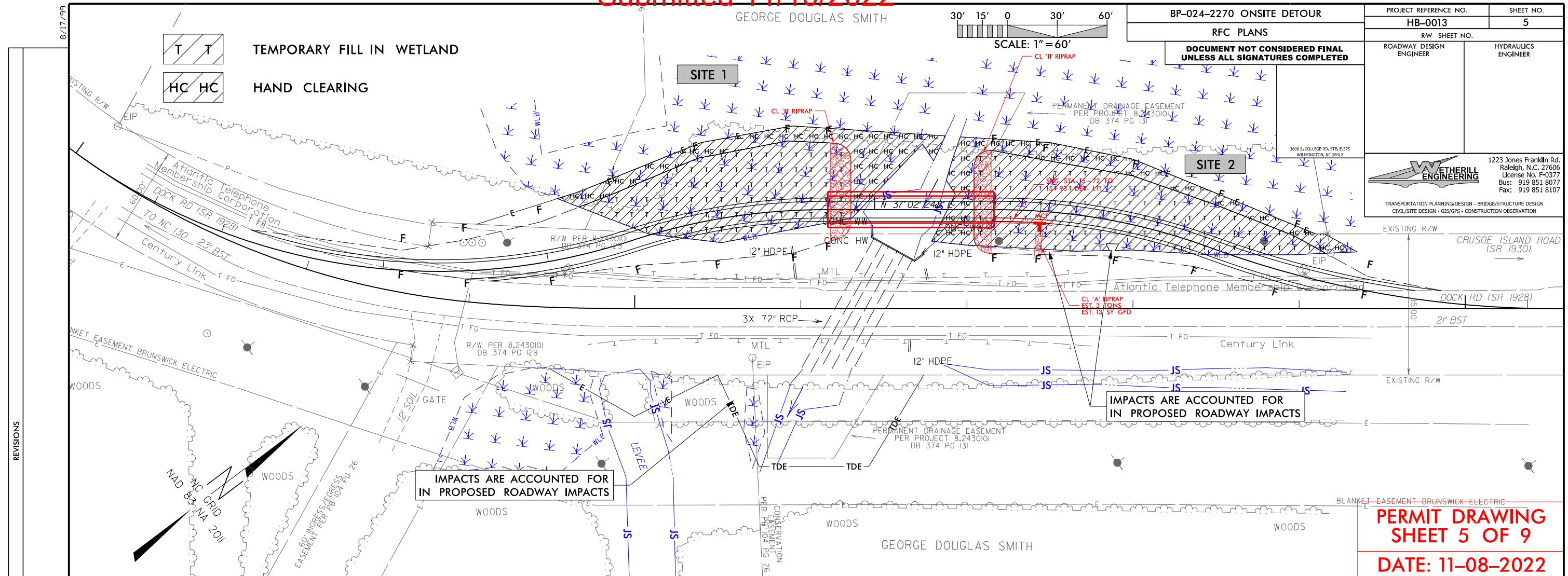
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PROJECT REFERENCE NO. <b>HB-0013</b>	SHEET NO. <b>5</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	

**T T** TEMPORARY FILL IN WETLAND  
**HC HC** HAND CLEARING

**SITE 1**

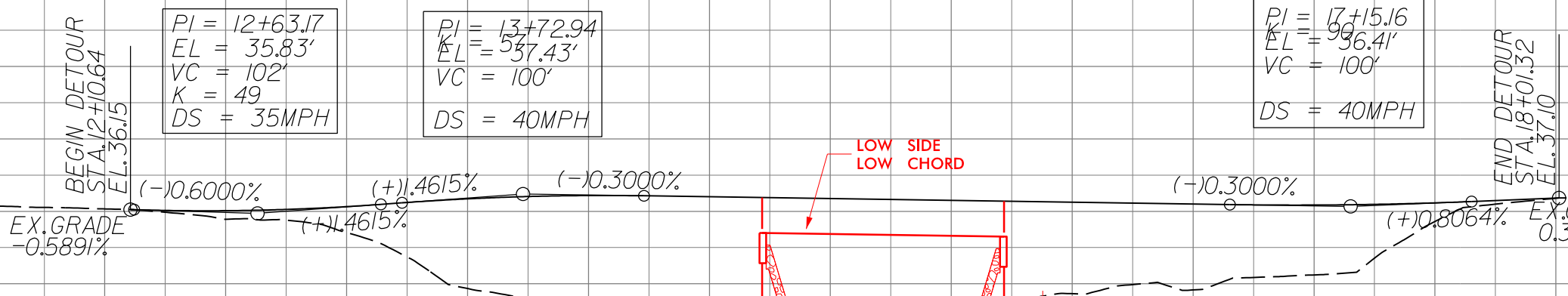
**SITE 2**



REVISIONS

**PERMIT DRAWING  
SHEET 5 OF 9  
DATE: 11-08-2022**

**-DET-**



PI = 12+63.17  
EL = 35.83'  
VC = 102'  
K = 49  
DS = 35MPH

PI = 13+72.94  
EL = 37.43'  
VC = 100'  
DS = 40MPH

PI = 17+15.16  
EL = 36.41'  
VC = 100'  
DS = 40MPH

**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 7832	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 34.5	FT
BASE DISCHARGE	= 15290	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 36.0	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY = 3-30-2022  
W.S. ELEVATION AT DATE OF SURVEY = 27.3 FT

GEORGE DOUGLAS SMITH

30' 15' 0 30' 60'

BP-024-2270 ONSITE DETOUR

PROJECT REFERENCE NO.

SHEET NO.

HB-0013

5

RFC PLANS

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

**WETHERILL ENGINEERING**  
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**T T** TEMPORARY FILL IN WETLAND  
**HC HC** HAND CLEARING

**SITE 1**

**SITE 2**

IMPACTS ARE ACCOUNTED FOR  
IN PROPOSED ROADWAY IMPACTS

IMPACTS ARE ACCOUNTED FOR  
IN PROPOSED ROADWAY IMPACTS

**PERMIT DRAWING  
SHEET 6 OF 9  
DATE: 11-08-2022**

**-DET-**

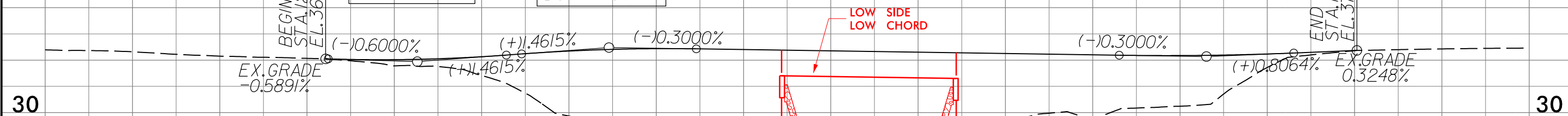
BEGIN DETOUR  
STA. 12+10.64  
EL. 36.15

PI = 12+63.17  
EL = 35.83'  
VC = 102'  
K = 49  
DS = 35MPH

PI = 13+72.94  
EL = 37.43'  
VC = 100'  
DS = 40MPH

PI = 17+15.16  
EL = 36.41'  
VC = 100'  
DS = 40MPH

END DETOUR  
STA. 18+01.32  
EL. 37.10



**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 7832	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 34.5	FT
BASE DISCHARGE	= 15290	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 36.0	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY = 3-30-2022  
W.S. ELEVATION AT DATE OF SURVEY = 27.3 FT

REVISIONS

8/17/99





<b>WETLAND AND SURFACE WATER IMPACTS SUMMARY</b>												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	13+13 to 15+43-DET-	ROADWAY FILL		0.15			0.07					
2	15+34 to 17+92-DET	ROADWAY FILL		0.18			0.07					
	16+99 to 17+66-L-LT	ROADWAY FILL			< 0.01							
	17+84 to 17+91-L-LT	PIPE OUTLET	< 0.01									
3	16+38 to 16+94-L-LT	CHANNEL REALIGNMENT INLET						0.03	< 0.01	45	12	
	15+75 to 16+33-L-RT	CHANNEL REALIGNMENT OUTLET				< 0.01		0.02	< 0.01	54	10	
4	14+54 to 14+77-L-RT	ROADWAY FILL	< 0.01			< 0.01						
5	14+89 to 15+12-L-RT	ROADWAY FILL						0.01	< 0.01	21	7	
6	15+10 to 15+22-L-RT	ROADWAY FILL	< 0.01			< 0.01						
7	16+84 to 17+76-L-RT	ROADWAY FILL							< 0.01			
<b>TOTALS*:</b>			< 0.01	0.34	< 0.01	0.01	0.14	0.06	0.02	120	29	0

\*Rounded totals are sum of actual impacts

NOTES:

There will be 0.02 acre of temporary fill in the hand clearing area for erosion control measures

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 11-08-2022  
 COLUMBUS COUNTY  
 HB-0013  
 BP-024-2270

Site	Latitude	Longitude	Estimated Amount of Aquatic Resource in Review Area (acreage or linear feet)
WA	34.157158	-78.572976	0.26
WB	34.156559	-78.572918	0.18
WC	34.157558	-78.572648	0.39
WD	34.156883	-78.572667	0.02
WE	34.156759	-78.572828	0.01
Waccamaw River Overflow	34.15707	-78.572723	200

Note: WC was merged with the part of WA to the northwest of the Overflow.

Type of Aquatic Resource	Geographic Authority
Wetland	Section 404
Wetland	Section 404
Wetland	Section 404
Wetland	Section 404
Wetland	Section 404
Non-wetland waters	Section 404

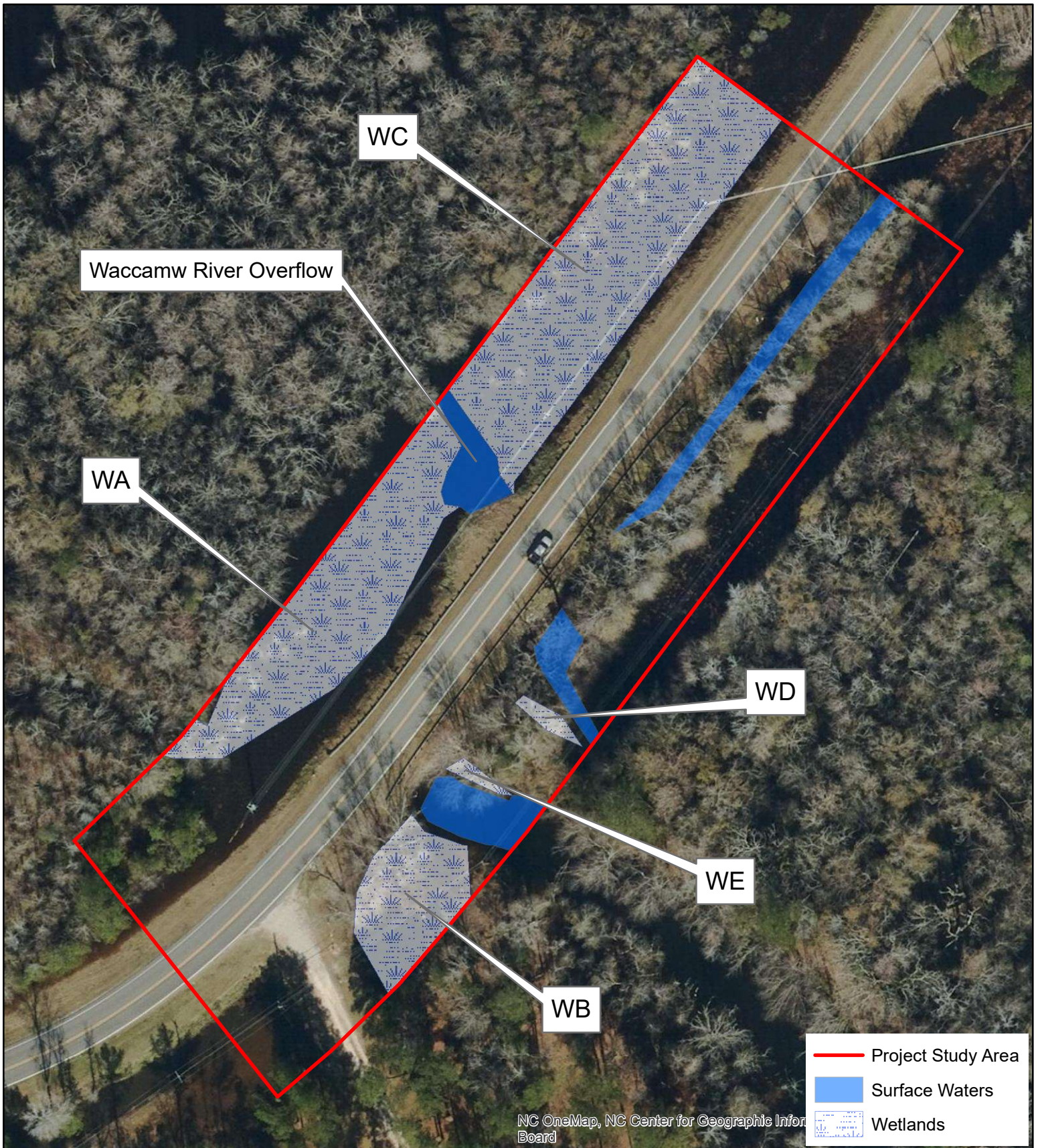


Figure 2. Jurisdictional Features Map (Revised)  
 WBS No. 49872.1.1  
 Replace Culvert 0242270 on SR 1928 over Waccama River Overflow  
 Columbus County

