



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

March 1, 2023

U.S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28805	N.C. Division of Water Resources Transportation Permitting Branch 1617 Mail Service Center Raleigh NC 27699-1617	N.C. Div. of Coastal Management 401 South Griffin St Ste 300 Elizabeth City, NC 27909
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ATTN:	Mr. Kyle Barnes, NCDOT Coordinator	Mr. Garcy Ward NCDOT Coordinator	Mr. Greg Daisey NCDOT Coordinator
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Subject: **Application for CAMA General Permit** for the Proposed Replacement of Bridge No. 8 over Slash Creek on NC12 in Hatteras, Dare County, North Carolina; TIP No. B-5610; Federal Aid Project No. NHP-0012(0016); Debit \$400 from WBS No. 45565.1.2

Dear Sirs,

The North Carolina Department of Transportation (NCDOT) proposes to replace the existing 86-foot, five-span bridge with a 95-foot, two-span bridge on existing alignment. Traffic will be maintained using an off-site detour. After input from residents in the vicinity, the project was redesigned to address concerns with the original design.

Impacts to wetland have been avoided for this project. There will be 95 linear feet of permanent stream impact to Slash Creek due to riprap fill at the bridge approaches, and <0.006 acre for riprap fill at the end of two pipes for stormwater discharge. Cofferdams will be used for the removal of the existing interior bents and construction of end bents for the new structure resulting in 15 feet (0.027 acre) of temporary impact.

Aerial utilities will be relocated with no impact to jurisdictional resources. The water line currently attached to the bridge will be directionally bored under Slash Creek, also resulting in no impacts to jurisdictional resources.

Please see enclosed copies of the Division of Coastal Management Major Permit Forms 1 and 5, permit drawings, stormwater management plan, and utility drawings for the above referenced project. A Type 1A Categorical Exclusion was completed in July 2019 and distributed shortly after. Additional copies are available at the NCDOT website: <https://xfer.services.ncdot.gov/pdea/EnvironmentalDocs/>

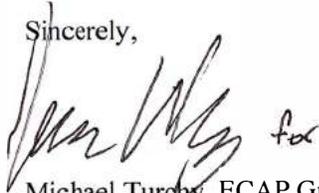
This project calls for a letting date of October 17, 2023 and a review date of August 29, 2023.

NCDOT hereby requests that the proposed work be authorized under:

- 404 Regional General Permit 50
- 401 Water Quality Certification corresponding to the RGP 50. Authorization to debit the \$240 Permit Application Fee from WBS Element 45565.1.2 is hereby given.
- CAMA General Permit: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act General Permit. Adjacent riparian landowner certified mail return receipts will be provided once they are received. Authorization to debit the \$800 Permit Application Fee from WBS Element 45565.1.2 is hereby given.

A copy of this permit application will be posted on the NCDOT Website at <https://xfer.services.ncdot.gov/pdea/PermApps/> Should you have any questions regarding this information, please contact Jason Dilday at (919) 707-6111 or jldilday@ncdot.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Turvey" with a small "for" written to the right.

Michael Turvey, ECAP Group Leader
Environmental Analysis Unit



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%20Help%20File%202018-1-30.pdf>

A. Processing Information



Pre-Filing Meeting Date Request was submitted on: *

5/17/2021

If this is a courtesy copy, please fill in this with the submission date.

Is this project connected with ARPA funding? *

Yes No

County (or Counties) where the project is located: *

Dare

Is this a NCDMS Project? *

Yes No

Click Yes, only if NCDMS is the applicant or co-applicant.

DON'T CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.

Is this project a public transportation project? *

Yes No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project? *

Yes No

(NCDOT only) T.I.P. or state project number:

B-5610

WBS # *

45565.1.2

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps: *

- Section 404 Permit (wetlands, streams and waters, Clean Water Act)
 Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted? *

Yes
 No

Please provide the date of the previous submission. *

3/14/2022

1b. What type(s) of permit(s) do you wish to seek authorization? *

- Nationwide Permit (NWP)
 Regional General Permit (RGP)
 Standard (IP)

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: Yes No

For the record only for Corps Permit: Yes No

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

Yes No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

Yes No

Acceptance Letter Attachment

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

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

Yes No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

Yes No Unknown

1j. Is the project located in a designated trout watershed? *

Yes No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information



1a. Who is the Primary Contact? *

Jason Dilday

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6111

1b. Primary Contact Email: *

jdilday1@ncdot.gov

1d. Who is applying for the permit? *

- Owner
(Check all that apply)
- Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? *

Yes No

2. Owner Information

2a. Name(s) on recorded deed: *

NCDOT

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6111

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

maturchy@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

Jason Dilday

3b. Business Name:

(if applicable)

3c. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

3d. Telephone Number: *

(919)707-6111

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

jdilday1@ncdot.gov

C. Project Information and Prior Project History



1. Project Information



1a. Name of project: *

Bridge 8 on NC 12 over The Slash (B-5610-Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Hatteras

2. Project Identification



2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

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: *

35.218233

ex: 34.208504

Longitude: *

-75.688745

-77.796371

3. Surface Waters

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

The Slash

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

SA, HQW

[Surface Water Lookup](#)

S1	1-Roadway Fill	Permanent	Rip Rap Fill	Slash Creek	Perennial	Both	100 Average (feet)	95 (linear feet)
S2	1-Roadway Fill	Temporary	Dewatering	Slash Creek	Perennial	Both	100 Average (feet)	15 (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:

95

3i. Total temporary stream impacts:

15

3i. Total stream and ditch impacts:

110

3j. Comments:

0.03 ac permanent open water impact is equivalent to the 87 linear feet of riprap fill at end bent 2.
Interior bent for new structure =32 sqft.

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 Reason	4b. Impact type [*] (?)	4c. Name of waterbody (?)	4d. Activity type [*]	4e. Waterbody type [*]	4f. Impact area [*]
1	Cofferdam	T	Slash Creek	Bridge	Tributary	0.03 (acres)
1	Pipe Outfalls	P	Slash Creek	Drainage	Tributary	0.01 (acres)

4g. Total temporary open water impacts:

0.03

4g. Total permanent open water impacts:

0.01

4g. Total open water impacts:

0.04

4h. 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 using top/down construction. The new bridge will have less bents in the water than the existing structure. See stormwater management plan for additional minimization measures. The bridge was redesigned from the previous submittal to reduce impacts to adjacent landowners without increasing impacts to jurisdictional resources.

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

An offsite detour will be used during construction. NCDOT's Design Standards in Sensitive Watersheds will be adhered to. The Guidelines for Avoiding Impacts to the West Indian Manatee will be adhered to during construction.

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

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

Impacts due to this project are considered minimal and not considered a "loss of Waters of the U.S.".

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

F. Stormwater Management and Diffuse Flow Plan (required by DWR)



*** Recent changes to the stormwater rules have required updates to this section.***

1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes No

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the [NC Stormwater Design Manual](#). Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

- Level Spreader
 Vegetated Conveyance (lower SHWT)
 Wetland Swale (higher SHWT)
 Other SCM that removes minimum 30% nitrogen
 Proposed project will not create concentrated stormwater flow through the buffer
(check all that apply)

For a list of options to meet the diffuse flow requirements, click [here](#).

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? *

Yes No

Comments:

G. Supplementary Information



1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? *

Yes No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? *

Yes No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) *

Yes No

Comments:*

Type I/II Categorical Exclusions do not require submittal to the State Clearing House.

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *

Yes No

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? *

Yes No

3b. If you answered "no," provide a short narrative description.

Due to minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

4. Sewage Disposal (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)

5a. Will this project occur in or near an area with federally protected species or habitat? *

Yes No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? *

Yes No

5d. Is another Federal agency involved? *

Yes No Unknown

What Federal Agency is involved?

NMFS

5e. Is this a DOT project located within Division's 1-8? *

Yes No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

N.C. Natural Heritage Program database; USFWS-IPaC website; biological surveys for protected species listed for Dare County, which include red wolf, West Indian manatee, Eastern black rail, piping plover, red knot, red-cockaded woodpecker, American alligator, green sea turtle, hawksbill sea turtle, Kemp's ridley sea turtle, leatherback sea turtle, loggerhead sea turtle, and seabeach amaranth. In water habitat is available for the manatee and sea turtle species. Communications with NMFS indicated that since the project will be constructed over the winter months, interactions with these species is highly unlikely. It was recommended that if construction occurred between May-October and observer be present.

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

Yes No

Are there submerged aquatic vegetation (SAV) around the project vicinity? *

Yes No Unknown

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NOAA EFH online mapper

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpoweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? *

Yes No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

NEPA documentation

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

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

Yes No

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

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

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

B5610AppMaterials.pdf

6.77MB

File must be PDF or KMZ

Signature

*

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

- 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: *

Michael Turchy

Signature *

A handwritten signature in cursive script that reads "Michael Turchy". The signature is written in a dark color on a light gray rectangular background.

Date

3/2/2023

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 2.08; Released April 2018)							
WBS Element: 45565.1.1		TIP No.: B-5610	County(ies): Dare		Page 1 of 1		
General Project Information							
WBS Element:		45565.1.1	TIP Number: B-5610		Project Type: Bridge Replacement	Date: 11/7/2022	
NCDOT Contact:		Kristy Alford, P.E.		Contractor / Designer:		Josh Dalton, P.E.	
		Address: NCDOT Structures Management Unit 1581 Mail Service Center Raleigh, NC 27699				Address: Sungate Design Group, P.A. 905 Jones Franklin Road Raleigh, NC 27606	
		Phone: 919-707-6531				Phone: 919-859-2243	
		Email: kalford@ncdot.gov				Email: jdalton@sungatedesign.com	
City/Town:		Hatteras		County(ies):		Dare	
River Basin(s):		Pasquotank		CAMA County?		Yes	
Wetlands within Project Limits?		Yes					
Project Description							
Project Length (lin. miles or feet):		0.16	Surrounding Land Use:		Residential, Commercial		
		Proposed Project			Existing Site		
Project Built-Upon Area (ac.)		1.1	ac.		1.1	ac.	
Typical Cross Section Description:		One paved 11' lane in each direction with 4' paved shoulders and variable with paved swales.			One paved 15' lane in each direction with 2'-6" curb and gutter.		
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 5842	Year: 2042		Existing: 4,425	Year: 2022	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		B-5610 is a bridge replacement project that involves removing Dare County bridge #8, on NC 12 over Slash Creek, and replacing it with a 1@45' and 1@50' 21" Cored Slab bridge with 4' end bent caps. The existing bridge is 5@17' timber deck on timber piles with timber abutments. The proposed structure will not have deck drains, and existing drainage patterns have been maintained.					
Waterbody Information							
Surface Water Body (1):		Slash Creek		NCDWR Stream Index No.:		30-22-30-1	
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class SA			
		Supplemental Classification:		High Quality Waters (HQW)			
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		Comments:					
NRTR Stream ID:						Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?		Yes	Deck Drains Discharge Over Buffer?		No	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?		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	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5610	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45565.1.2	NHP-0012(016)	PE	
45565.2.1	0012068	RIGHT-OF-WAY	
45565.2.1	0012068	UTILITIES	

**PERMIT DRAWING
SHEET 1 OF 6
DATE: 1-20-23**

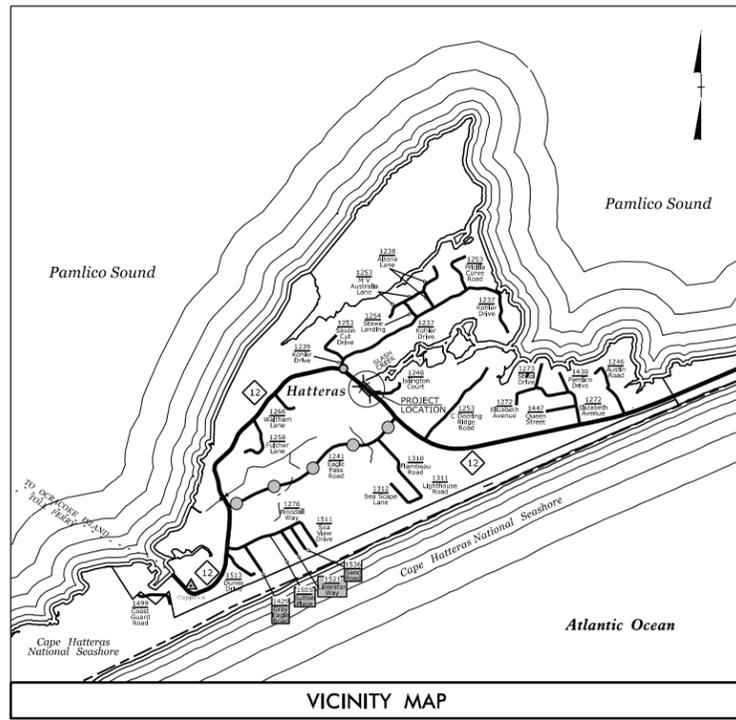
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Submitted 2/28/2023
DARE COUNTY

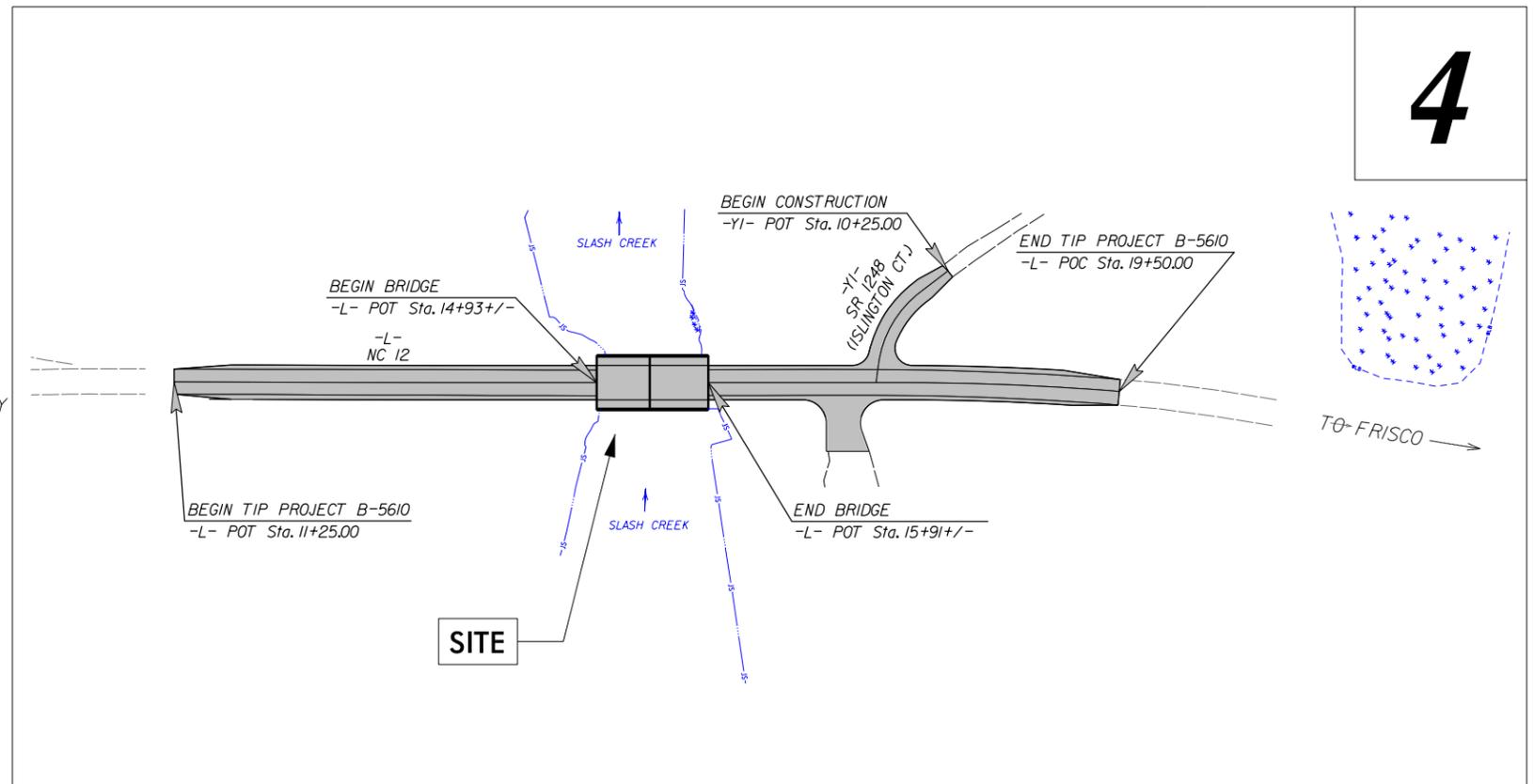
LOCATION: BRIDGE No. 8 OVER THE SLASH ON NC 12

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT



See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
Off-Site Detour

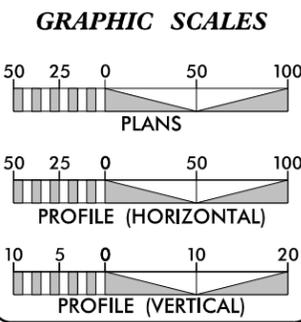


CLEARING ON THIS PROJECT SHALL BE TO LIMITS ESTABLISHED USING METHOD II.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDRIES OF HATTERAS.

**INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

TIP PROJECT: B-5610

CONTRACT:



DESIGN DATA
2023 ADT = 4,496 VPD
2043 ADT = 5,912 VPD
K = 8%
D = 55%
T = 8% *
V = 40 MPH
* (TTST 1% + DUAL 7%)
FUNC. CLASS. = MAJOR COLLECTOR
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5610	=	0.137 mi.
LENGTH STRUCTURES TIP PROJECT B-5610	=	0.019 mi.
TOTAL LENGTH TIP PROJECT B-5610	=	0.156 mi.

Prepared in the Offices of:

223 S. WEST ST. STE 1100
RALEIGH, NC 27603
704.948.4590

600 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL 919.880.8100
ENG FIRM LICENSE NO. C480

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 19, 2021

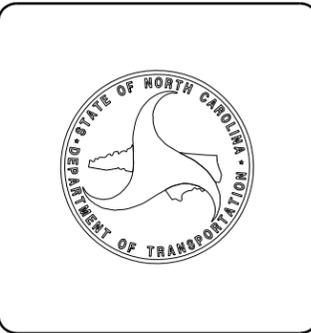
LETTING DATE:
OCTOBER 17, 2023

ANDY YOUNG, PE PROJECT ENGINEER
MICHAEL BURNS, PE PROJECT DESIGN ENGINEER
KRISTY ALFORD, PE NCDOT CONTACT

HYDRAULICS ENGINEER

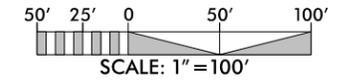
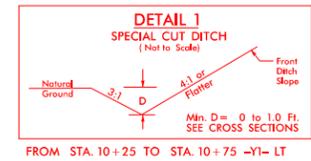
SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



\$\$\$\$ SYSTEM \$\$\$
\$\$\$ DGN \$\$\$
\$\$\$ USERNAME \$\$\$

Submitted 2/28/2023

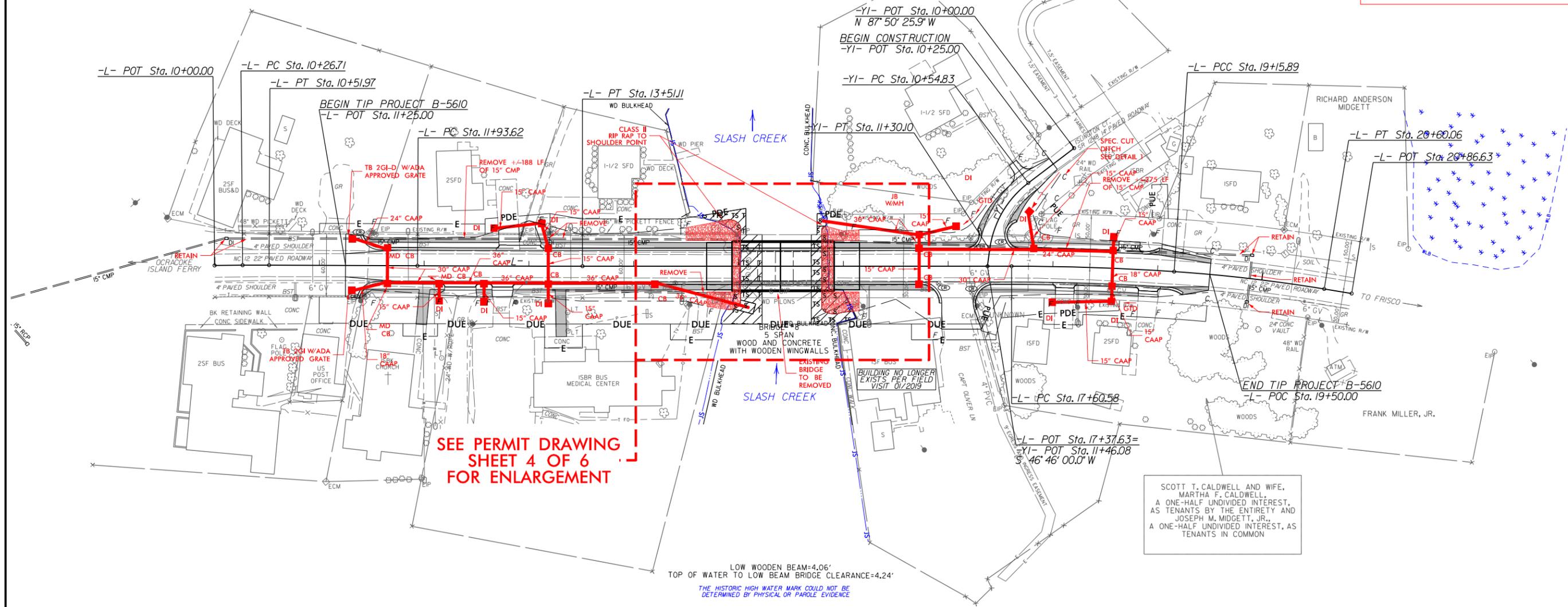


PROJECT REFERENCE NO. B-5610	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 STEWART <small>Firm License No. C-1251 223 S. West St. Raleigh, NC 27603 P: 919.386.8700 www.stewartinc.com</small>	 SUNGATE DESIGN GROUP, P.A. <small>10000 W. HARRIS ROAD RALEIGH, NORTH CAROLINA 27615 TEL: 919.418.1000 FAX: 919.418.1001</small>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 2 OF 6
DATE: 1-20-23

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER



1 DROVER LLC DB 1992 PG 95 PC B SLIDE 348	2A HATTERAS UNITED METHODIST CHURCH DB 139 PG 506	2 HATTERAS UNITED METHODIST CHURCH DB 1617 PG 299 DB B PG 278 DB A PG 480 DB B PG 420	3 DARREL ALLEN DANIELS, ET UX DB 1670 PG 104 MB 2 PG 225	9 JEFFREY LYNN ODEN DB 1904 PG III PB 338 PG 569	5 HATTERAS VILLAGE CIVIC ASSOCIATION INC. DB 974 PG 546 DB 1954 PG 41 DB 1994 PG 306 DB 125 PG 376
6 HATTERAS VILLAGE MEDICAL ASSOCIATES DB 130 PG 591	7 PALMATIER, LLC DB 2600 PG 903	8 SEE PROPERTY OWNER INFO (THIS SHEET)	9 JEFFREY LYNN ODEN, ET UX DB 1558 PG 70 PC H SLIDE 173	10 CHRISTY D. KELLUM DB 1957 PG 308 PC H SLIDE 173	11 RICHARD ANDERSON MIDGETT DB 2545 PG 879

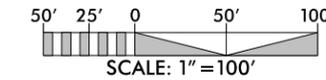
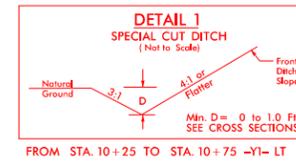
	ASPHALT SHOULDER
	CONCRETE SIDEWALK
	PAVEMENT REMOVAL

FOR -L- PROFILE, SEE SHEET 5

FOR -Y1- PROFILE, SEE SHEET 5

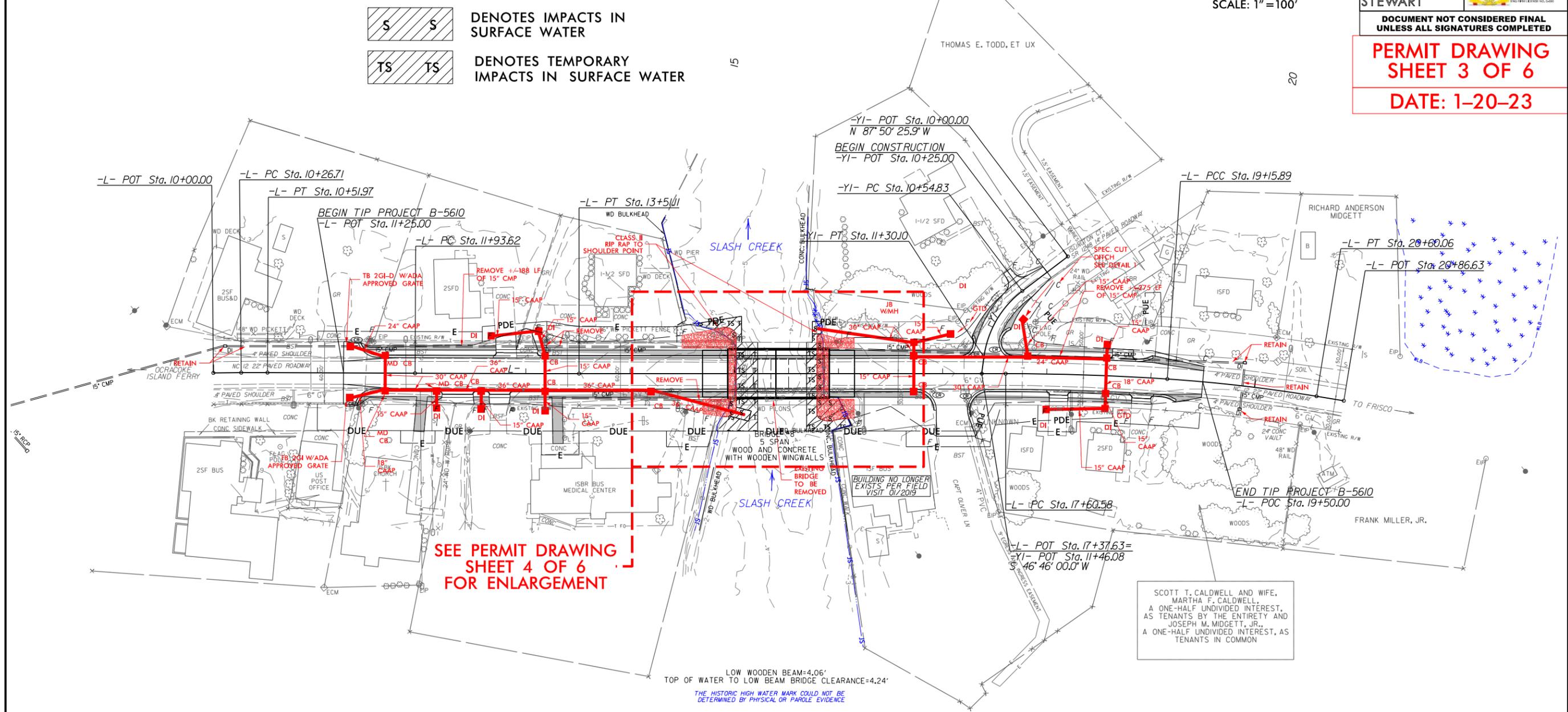
FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-XX

Submitted 2/28/2023



PROJECT REFERENCE NO. B-5610	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 STEWART Firm License No. C-1251 223 S. West St. Raleigh, NC 27603 P: 919.386.8700 www.stewartinc.com	 SUNGATE DESIGN GROUP, P.A. 101 JONES FARM ROAD BALDWIN PARK, CAROLINA 27006 P: 704.844.1000
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 3 OF 6
DATE: 1-20-23



1 DROVER LLC DB 1992 PG 95 PC B SLIDE 348	2A HATTERAS UNITED METHODIST CHURCH DB 139 PG 506	2 HATTERAS UNITED METHODIST CHURCH DB 1617 PG 299 DB B PG 278 DB A PG 480 DB B PG 420	3 DARREL ALLEN DANIELS, ET UX DB 1670 PG 104 MB 2 PG 225	9 JEFFREY LYNN ODEN DB 1904 PG III PB 338 PG 569	5 HATTERAS VILLAGE CIVIC ASSOCIATION INC. DB 974 PG 546 DB 1954 PG 41 DB 1994 PG 306 DB 125 PG 376
6 HATTERAS VILLAGE MEDICAL ASSOCIATES DB 130 PG 591	7 PALMATIER, LLC DB 2600 PG 903	8 SEE PROPERTY OWNER INFO (THIS SHEET)	9 JEFFREY LYNN ODEN, ET UX DB 1558 PG 70 PB 338 PG 569	10 CHRISTY D. KELLUM DB 1957 PG 308 PC H SLIDE 173	11 RICHARD ANDERSON MIDGETT DB 2545 PG 879

	ASPHALT SHOULDER
	CONCRETE SIDEWALK
	PAVEMENT REMOVAL

FOR -L- PROFILE, SEE SHEET 5
FOR -Y1- PROFILE, SEE SHEET 5

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-XX

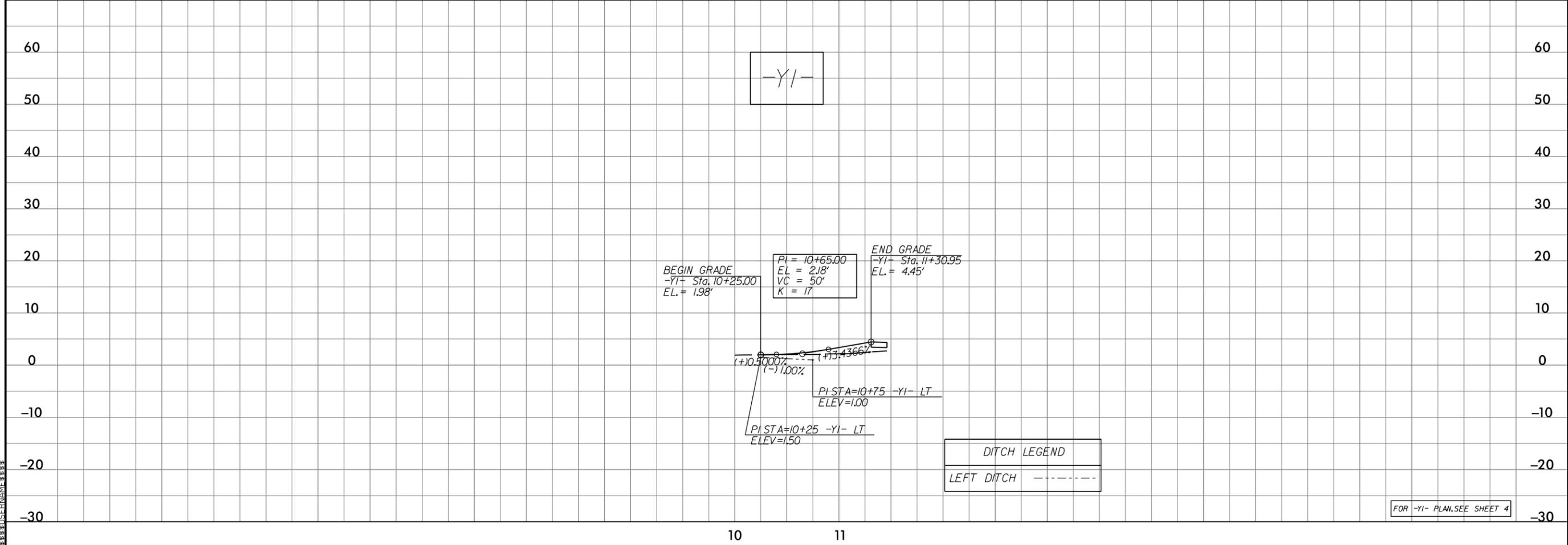
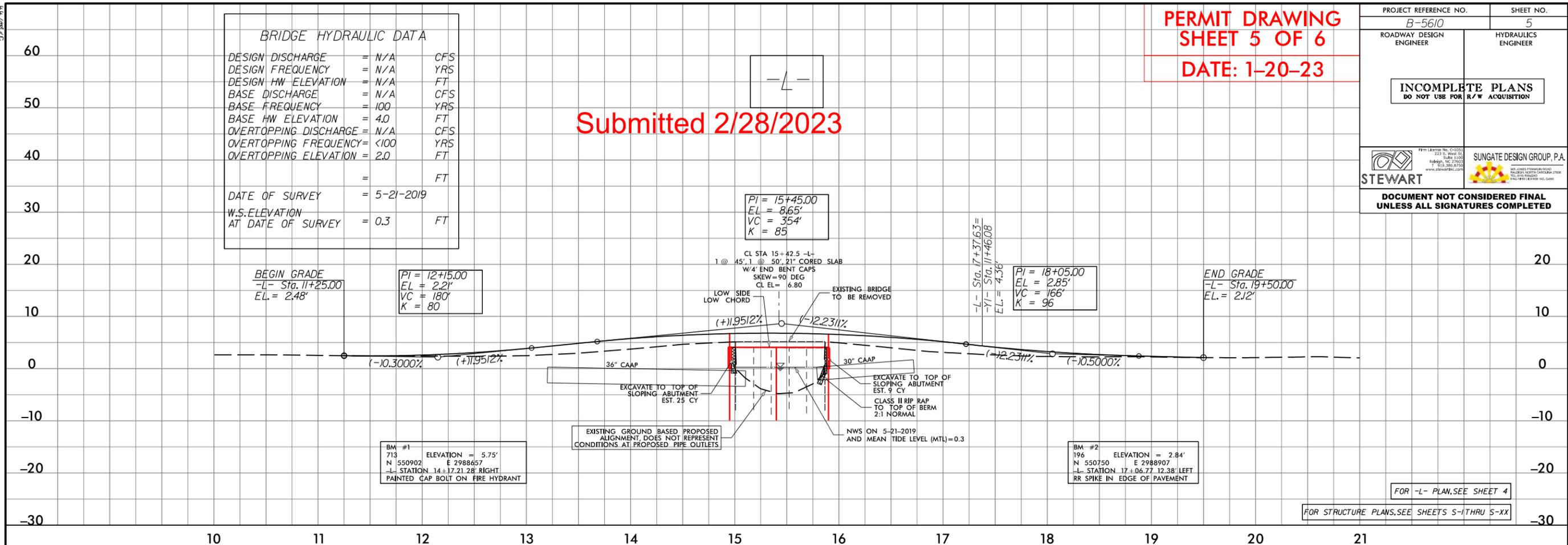
**PERMIT DRAWING
SHEET 5 OF 6
DATE: 1-20-23**

PROJECT REFERENCE NO. B-5610	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 STEWART <small>From License No. C-1251 223 S. West St. Raleigh, NC 27603 P: 919.386.8700 www.stewartinc.com</small>	 SUNGATE DESIGN GROUP, P.A. <small>201 ZIONS FARM ROAD RALEIGH, NORTH CAROLINA 27605 TEL: 919.878.4444 WWW.SUNGATEDESIGN.COM</small>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= N/A	CFS
DESIGN FREQUENCY	= N/A	YRS
DESIGN HW ELEVATION	= N/A	FT
BASE DISCHARGE	= N/A	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 4.0	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= <100	YRS
OVERTOPPING ELEVATION	= 2.0	FT
DATE OF SURVEY	= 5-21-2019	FT
W.S. ELEVATION AT DATE OF SURVEY	= 0.3	FT

Submitted 2/28/2023



FOR -L- PLAN, SEE SHEET 4

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-XX

FOR -YI- PLAN, SEE SHEET 4

Submitted 2/28/2023

WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	14+59 to 15+22-L-	ROADWAY FILL						0.007	0.052	95	15	
	15+70 to 16+12-L-							0.020	0.027			
	14+98 to 15+23-L-RT	36" PIPE						0.004				
	15+75 to 15+85-L-LT	30" PIPE						0.002				
TOTALS*:								0.03	0.08	95	15	

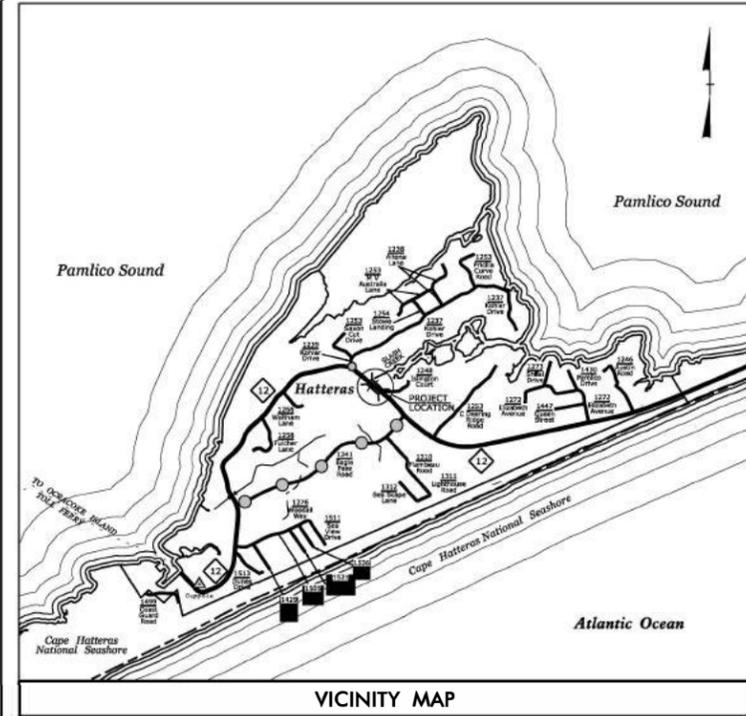
*Rounded totals are sum of actual impacts

NOTES:

Interior bent= 32sqft.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 01-19-2023
 DARE COUNTY
 B-5610
 45565.1.1
 SHEET 6 OF 6

TIP PROJECT: B-5610



Submitted 2/28/2023

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

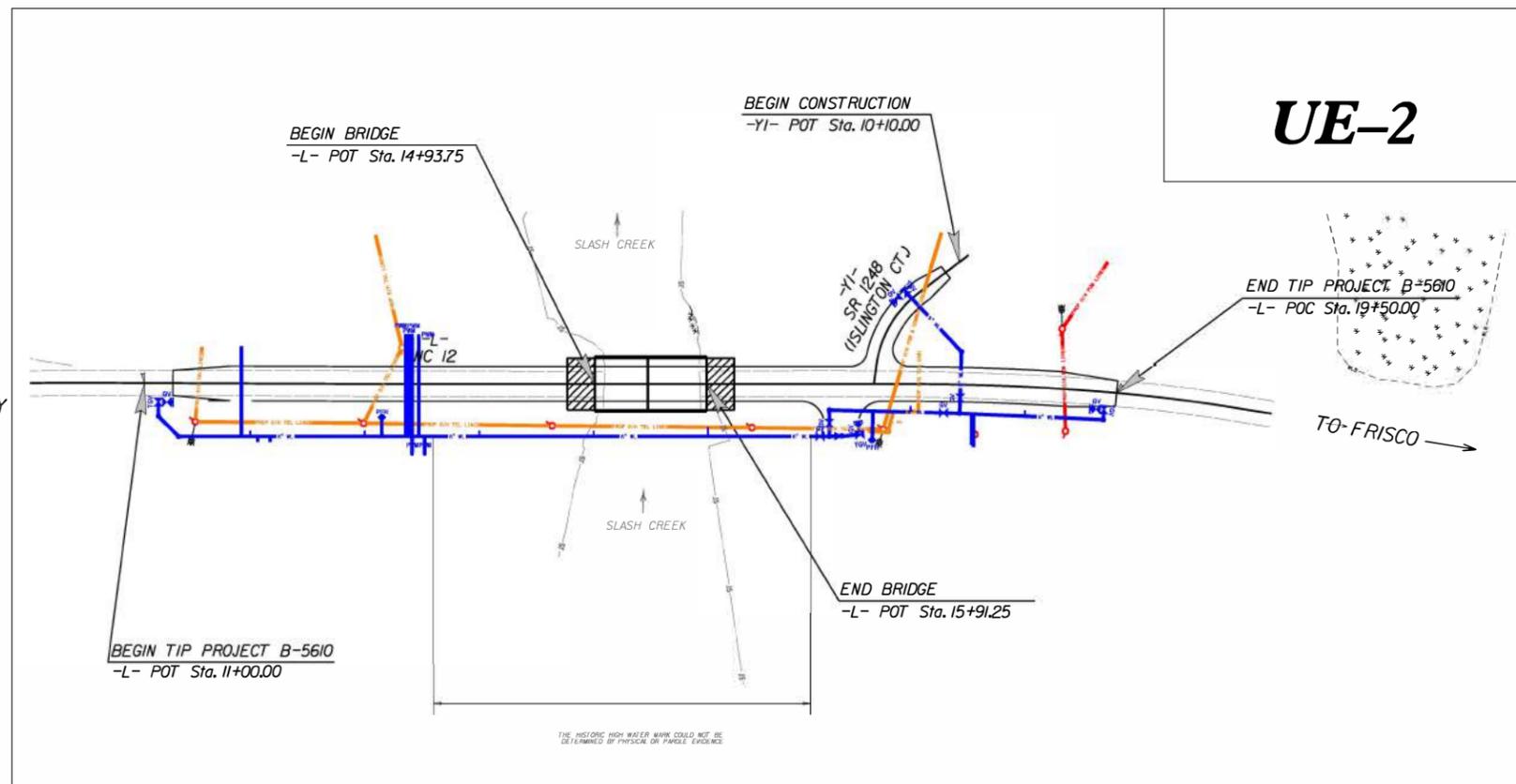
**UTILITIES ENVIRONMENTAL PERMIT PLANS
DARE COUNTY**

**LOCATION: BRIDGE NO. 8 OVER THE SLASH CREEK
ON NC 12**
**TYPE OF WORK: TELECOMMUNICATIONS, WATER
AND POWER RELOCATION**

T.I.P. NO.	SHEET NO.
B-5610	UE-1

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

**PERMIT DRAWING
SHEET 1 OF 5
DATE: 1-20-23**

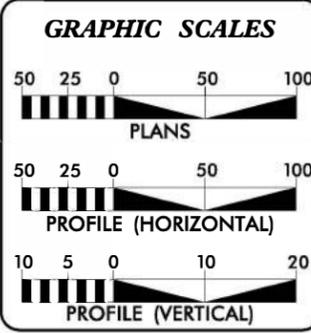


UE-2

WETLAND AND SURFACE WATER IMPACTS PERMIT

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



SHEET NO.	DESCRIPTION
UE-1	TITLE SHEET
UE-2 - UE-4	UTILITY PLAN SHEETS
UE-5 - UE-6	UTILITY PROFILE SHEETS

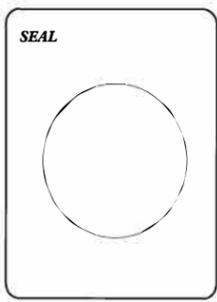
UTILITY OWNERS ON PROJECT
(A) LUMEN - TELECOMMUNICATIONS
(B) CHARTER - TELECOMMUNICATIONS
(C) CAPE HATTERAS ELECTRIC - POWER

PREPARED IN THE OFFICE OF:

221 S. West St., Suite 1100
RALEIGH, NC 27603
754.360.8700

Firm License #: C-1051
www.stewartinc.com
PROJECT #118000.00

MICHAEL BURNS, PE PROJECT ENGINEER
JOSHUA ROEMER PROJECT DESIGN ENGINEER



**DIVISION OF HIGHWAYS
UTILITIES UNIT**
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

NABIL HAMDAN UTILITIES REGIONAL ENGINEER
TYRON W. STALLINGS UTILITIES LEAD
TANGA SAMPSON UTILITIES AREA COORDINATOR
TYRON W. STALLINGS UTILITIES COORDINATOR

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

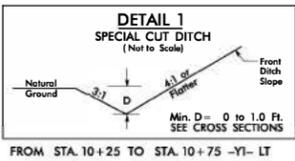
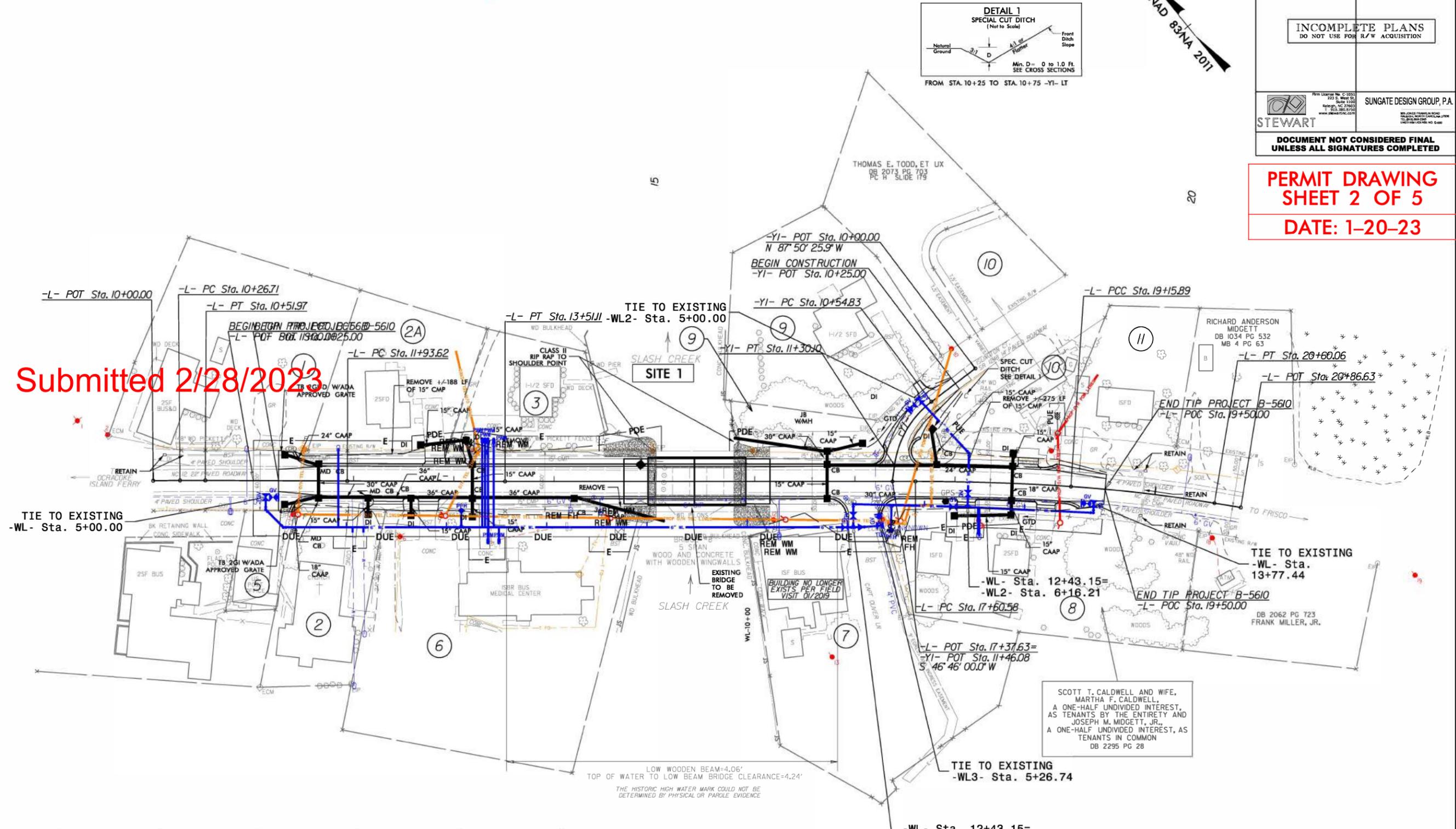
PLAN VIEW - ALL UTILITY RELOCATIONS

PROJECT REFERENCE NO. B-5610	SHEET NO. UE-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
SUNGATE DESIGN GROUP, P.A. 223 E. West St. Raleigh, NC 27603 www.sungatedesign.com	
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PERMIT DRAWING
SHEET 2 OF 5

DATE: 1-20-23

Submitted 2/28/2023



<p>①</p> <p style="font-size: 8px;">DROVER LLC DB 1992 PG 95 PC B SLIDE 348</p>	<p>②A</p> <p style="font-size: 8px;">HATTERAS UNITED METHODIST CHURCH DB 139 PG 506</p>	<p>②</p> <p style="font-size: 8px;">HATTERAS UNITED METHODIST CHURCH DB 1617 PG 299 DB 8 PG 278 DB A PG 480 DB B PG 420</p>	<p>③</p> <p style="font-size: 8px;">DARREL ALLEN DANIELS, ET UX DB 1670 PG 104 MB 2 PG 225</p>	<p>⑨</p> <p style="font-size: 8px;">JEFFREY LYNN ODEN DB 1904 PG III PB 338 PG 569</p>	<p>⑤</p> <p style="font-size: 8px;">HATTERAS VILLAGE CIVIC ASSOCIATION INC. DB 974 PG 546 DB 1954 PG 41 DB 1934 PG 306 DB 125 PG 376</p>
<p>⑥</p> <p style="font-size: 8px;">HATTERAS VILLAGE MEDICAL ASSOCIATES DB 130 PG 591</p>	<p>⑦</p> <p style="font-size: 8px;">PALMATIER, LLC DB 2600 PG 903</p>	<p>⑧</p> <p style="font-size: 8px;">SEE PROPERTY OWNER INFO (THIS SHEET)</p>	<p>⑨</p> <p style="font-size: 8px;">JEFFREY LYNN ODEN, ET UX DB 1558 PG 70 PB 338 PG 569</p>	<p>⑩</p> <p style="font-size: 8px;">CHRISTY D. KELLUM DB 1957 PG 308 PC H SLIDE 179</p>	<p>⑪</p> <p style="font-size: 8px;">RICHARD ANDERSON MIDGETT DB 2545 PG 879</p>

▭	ASPHALT SHOULDER
▭	CONCRETE SIDEWALK
▭	PAVEMENT REMOVAL

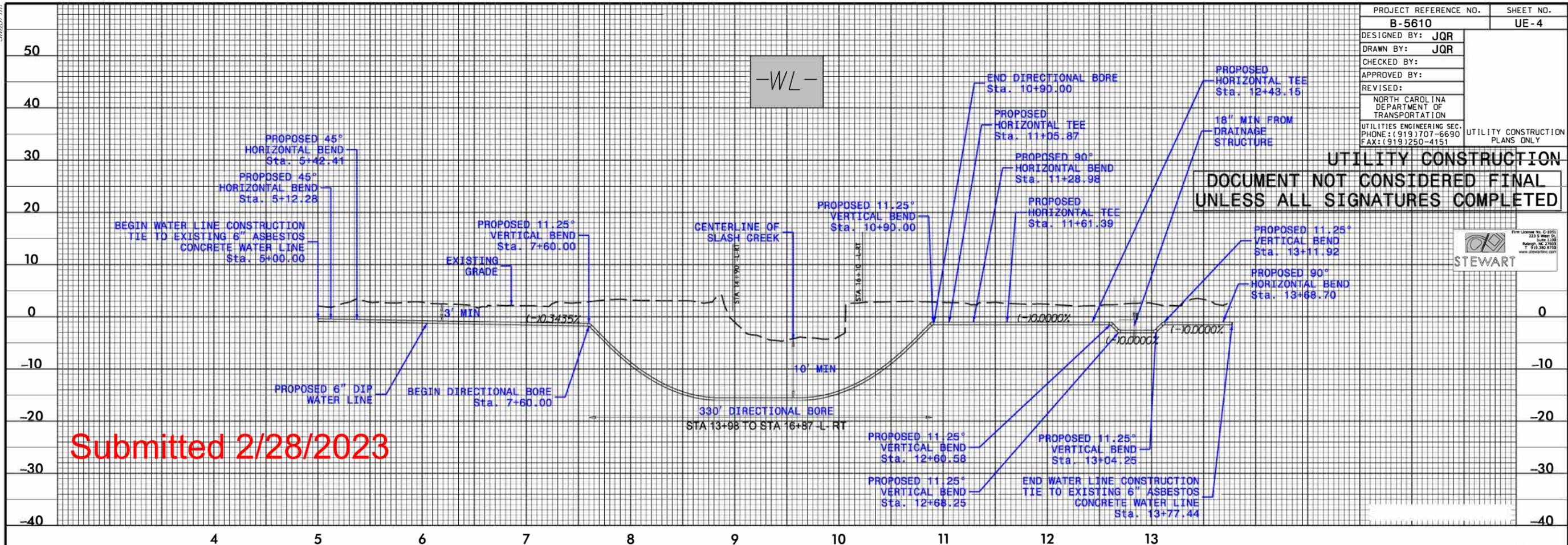
FOR -L- PROFILE, SEE SHEET 5

FOR -Y1- PROFILE, SEE SHEET 5

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-XX

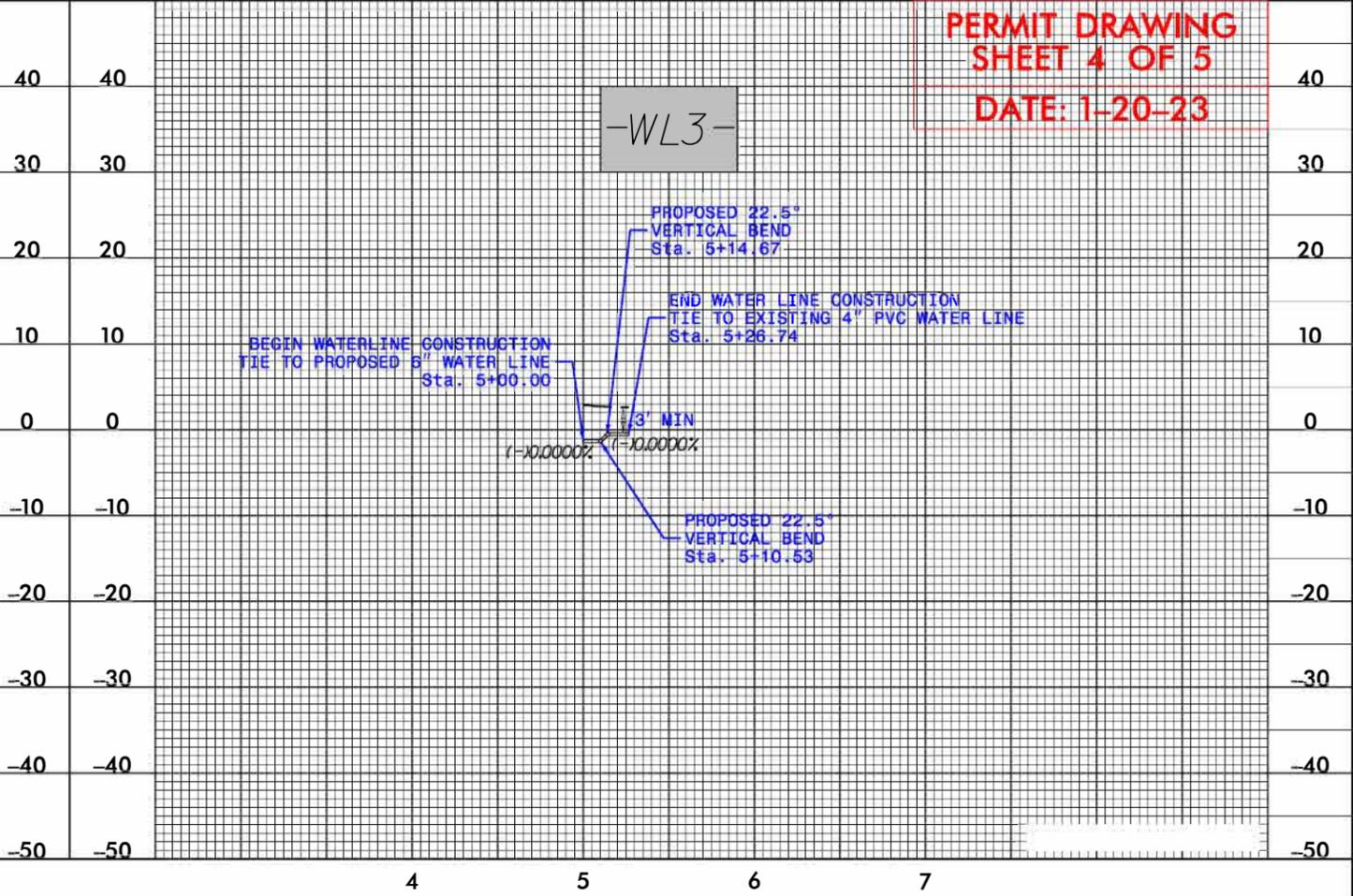
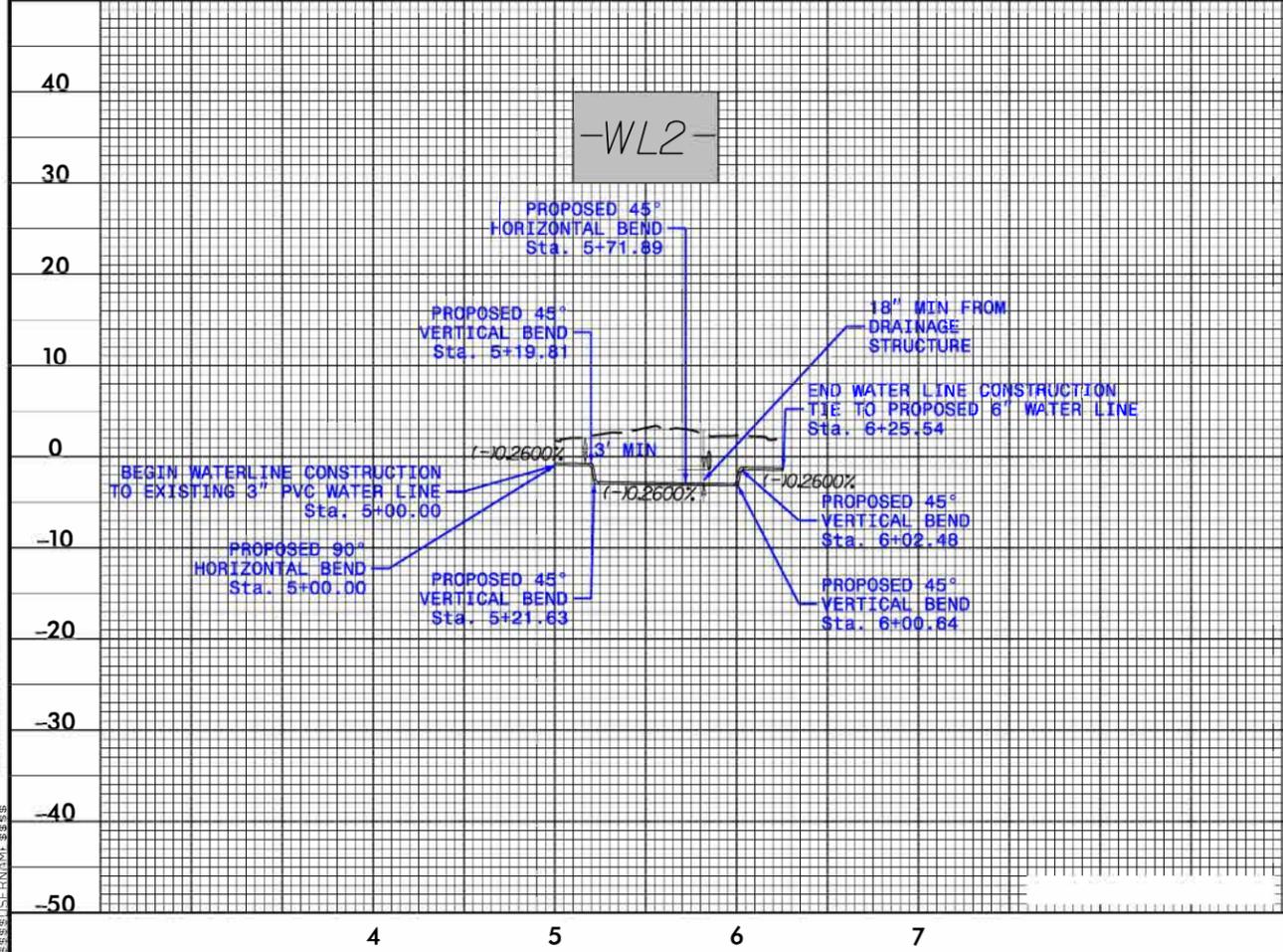
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



Submitted 2/28/2023

PERMIT DRAWING
SHEET 4 OF 5
DATE: 1-20-23



APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information

Business Name North Carolina Department Of Transportation		Project Name (if applicable) B-5610	
Applicant 1: First Name Jason	MI	Last Name Dilday	
Applicant 2: First Name N/A	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1581 Mail Service Center		PO Box	City Raleigh
			State NC
ZIP 27699 1581	Country US	Phone No. 919 - 707 - 6531 ext.	FAX No. - -
Street Address (if different from above) 1000 Birch Ridge Dr		City Raleigh	State NC
			ZIP 27610-
Email kalford@ncdot.gov			

2. Agent/Contractor Information

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

<Form continues on back>

3. Project Location			
County (can be multiple) Dare	Street Address Bridge No. 8 over Slash Creek	State Rd. # NC 12	
Subdivision Name N/A	City Hatteras	State NC	Zip 27943 -
Phone No. N/A - - ext.		Lot No.(s) (if many, attach additional page with list) N/A, , , ,	
a. In which NC river basin is the project located? Pasquotank		b. Name of body of water nearest to proposed project Slash Creek	
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown		d. Name the closest major water body to the proposed project site. Pamlico Sound	
e. Is proposed work within city limits or planning jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Dare County Planning District	

4. Site Description	
a. Total length of shoreline on the tract (ft.) 220 ft. (approximately 110 ft. on each shore)	b. Size of entire tract (sq.ft.) Approximate Project Area=90,000 sq. ft.
c. Size of individual lot(s) N/A, (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 5 ft. <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL
e. Vegetation on tract Maintained/disturbed vegetation, salt marsh	
f. Man-made features and uses now on tract Roadway, bridge, buildings, utilites	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Commercial, residential	
h. How does local government zone the tract? Commercial, residential	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA If yes, by whom?	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? <i>(Attach documentation, if available)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
n. Describe existing wastewater treatment facilities. N/A	
o. Describe existing drinking water supply source. N/A	
p. Describe existing storm water management or treatment systems. N/A	

5. Activities and Impacts	
a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. Roadway and bridge for public transportation use	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Proposed construction utilizing coffer dams. Typical construction equipment includes crane, excavator, dump trucks, etc.	
d. List all development activities you propose. Replace existing timber bridge with a cored slab concrete bridge and pedestrian/roadway improvements along NC 12. Existing utilities will also be relocated within right-of-way or easements to accommodate roadway/bridge improvements.	
e. Are the proposed activities maintenance of an existing project, new work, or both?	New work
f. What is the approximate total disturbed land area resulting from the proposed project?	2.0 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. Both the existing and proposed bridges drains to closed systems on either end that discharge into Slash Creek. The existing 15" CMP on the west side is being replaced with a 36" CAAP, and the 15" CMP on the east side is being replaced with a 30" CAAP.	
i. Will wastewater or stormwater be discharged into a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
j. Is there any mitigation proposed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, attach a mitigation proposal.	

<Form continues on back>

6. Additional Information

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

- a. A project narrative.
- b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
- c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.
- d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
- e. The appropriate application fee. Check or money order made payable to DENR.

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

Name SEE ATTACHED LIST	Phone No.
Address	
Name	Phone No.
Address	
Name	Phone No.
Address	

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

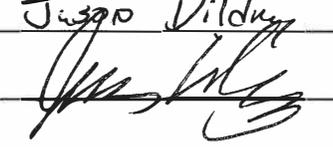
- h. Signed consultant or agent authorization form, if applicable.
- i. Wetland delineation, if necessary.
- j. A signed AEC hazard notice for projects in oceanfront and inlet areas. *(Must be signed by property owner)*
- k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

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

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

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

Date 3/1/2023 Print Name Jesse Dilday
 Signature 

Please indicate application attachments pertaining to your proposed project.

- DCM MP-2 Excavation and Fill Information
- DCM MP-3 Upland Development
- DCM MP-4 Structures Information
- DCM MP-5 Bridges and Culverts

Palmatier LLC-Primary Owner
P.O. Box 580
Hattera, NC 27943

Daniels, Darrell A & Lorna S
P.O. Box 1087
Manteo, NC 27954

Oden, Jeffrey L & Kathleen R
P.O. Box 374
Hatteras, NC 27943

Hatteras Village Medical Assoc.
P.O. Box 1000
Manteo, NC 27954

BRIDGES and CULVERTS

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

1. BRIDGES This section not applicable

- a. Is the proposed bridge:
 Commercial Public/Government Private/Community
- b. Water body to be crossed by bridge:
Slash Creek
- c. Type of bridge (construction material):
Concrete
- d. Water depth at the proposed crossing at NLW or NWL:
5.0 ft.
- e. (i) Will proposed bridge replace an existing bridge? Yes No
If yes,
(ii) Length of existing bridge: 85 ft.
(iii) Width of existing bridge: 28 ft.
(iv) Navigation clearance underneath existing bridge: 3.7 ft.
(v) Will all, or a part of, the existing bridge be removed?
(Explain) all
- f. (i) Will proposed bridge replace an existing culvert? Yes No
If yes,
(ii) Length of existing culvert: N/A
(iii) Width of existing culvert: N/A
(iv) Height of the top of the existing culvert above the NHW or NWL: N/A
(v) Will all, or a part of, the existing culvert be removed?
(Explain) N/A
- g. Length of proposed bridge: 95 ft.
- h. Width of proposed bridge: 48 ft.
- i. Will the proposed bridge affect existing water flow? Yes No
If yes, explain: N/A
- j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? Yes No
If yes, explain: The navigational opening is increasing slightly.
- k. Navigation clearance underneath proposed bridge: 3.9 ft.
- l. Have you contacted the U.S. Coast Guard concerning their approval? Yes No
If yes, explain: N/A
- m. Will the proposed bridge cross wetlands containing no navigable waters? Yes No
If yes, explain: N/A
- n. Height of proposed bridge above wetlands: N/A

2. CULVERTS This section not applicable

- a. Number of culverts proposed: _____
- b. Water body in which the culvert is to be placed:

< Form continues on back >

c. Type of culvert (construction material):

d. (i) Will proposed culvert replace an existing bridge? Yes No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed?
(Explain)

e. (i) Will proposed culvert replace an existing culvert? Yes No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or
NWL: _____

(v) Will all, or a part of, the existing culvert be removed?
(Explain)

f. Length of proposed culvert: _____

g. Width of proposed culvert: _____

h. Height of the top of the proposed culvert above the NHW or NWL.

i. Depth of culvert to be buried below existing bottom contour.

j. Will the proposed culvert affect navigation by reducing or
increasing the existing navigable opening? Yes No

If yes, explain:

k. Will the proposed culvert affect existing water flow? Yes No

If yes, explain:

3. EXCAVATION and FILL

This section not applicable

a. (i) Will the placement of the proposed bridge or culvert require any
excavation below the NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

b. (i) Will the placement of the proposed bridge or culvert require any
excavation within coastal wetlands/marsh (CW), submerged
aquatic vegetation (SAV), shell bottom (SB), or other wetlands
(WL)? If any boxes are checked, provide the number of square
feet affected.

CW _____ SAV _____ SB _____

WL _____ None

(ii) Describe the purpose of the excavation in these areas:

N/A

c. (i) Will the placement of the proposed bridge or culvert require any
high-ground excavation? Yes No

If yes,

(ii) Avg. length of area to be excavated: 45'

(iii) Avg. width of area to be excavated: 8'

(iv) Avg. depth of area to be excavated: 3.5'

(v) Amount of material to be excavated in cubic yards: 34 cy
Total (See permit drawings for breakdown of excavation
at each end bent).

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: To be determined by the contractor

(ii) Dimensions of the spoil disposal area: Unknown

(iii) Do you claim title to the disposal area? Yes No (If no, attach a letter granting permission from the owner.)

(iv) Will the disposal area be available for future maintenance? Yes No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

CW SAV WL SB None

If any boxes are checked, give dimensions if different from (ii) above. N/A

(vi) Does the disposal area include any area below the NHW or NWL? ? Yes No

If yes, give dimensions if different from (ii) above. N/A

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be filled: 10'

(iii) Avg. width of area to be filled: 90'

(iv) Purpose of fill: Roadway fill and rip rap (See permit drawings)

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL _____ None

(ii) Describe the purpose of the excavation in these areas:

N/A

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? Yes No

If yes,

(ii) Avg. length of area to be filled: 60'

(iii) Avg. width of area to be filled: 18'

(iv) Purpose of fill: Roadway fill and rip rap (See permit drawings)

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? Yes No

If yes, explain: This project includes relocation of water, power, and telecommunications. Telecommunications and power will remain aerial along the project. Water will be directionally bored under The Slash. No impacts to jurisdictional features will occur.

b. Will the proposed project require the construction of any temporary detour structures? Yes No

If yes, explain: N/A

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

< Form continues on back >

c. Will the proposed project require any work channels?
 Yes No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Use of NCDOT Best Management Practices and Erosion Control Measures

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?

Heavy highway construction equipment including crane, excavator, and dump trucks.

f. Will wetlands be crossed in transporting equipment to project site?
 Yes No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization?
 Yes No

If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

1/30/2023

Date

B-5610

Project Name

Jason Dilday

Applicant Name

Applicant Signature



Type I and II Ground Disturbing Categorical Exclusion Action Classification Form

STIP Project No.	<u>B-5610</u>
WBS Element	<u>45565.1.1</u>
Federal Project No.	<u>NHP-0012(016)</u>

A. Project Description:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 8 on NC 12 over The Slash in Dare County. Bridge No. 8 will be replaced-in-place with an off-site detour. The proposed structure will be an approximately 95-foot long, two-span, pre-stressed concrete girder. The bridge typical section is two 15-foot lanes with 5-foot sidewalks on each side. The roadway typical section is two 15-foot lanes with 10-foot shoulders (5-foot paved sidewalks) on each side. The proposed design speed is 40 mph. The project length is approximately 850 feet. The Project Vicinity map, Study Area map, and Preliminary Plans are included in Attachment A.

B. Description of Need and Purpose:

The purpose of the proposed project is to replace a structurally deficient bridge (determined to be structurally deficient in August 2013).

Bridge No. 8 was constructed in 1956. The bridge is 86 feet long with a clear roadway width of 27.667 feet. The structure type is reinforced concrete floor on timber joists, timber caps, and timber piles. NCDOT Bridge Management Unit records indicate Bridge No. 8 had a sufficiency rating of 15.08 as of October 24, 2017 out of a possible 100 for a new structure. NCDOT Bridge Management Unit records from April 2013 indicated that Bridge No. 8 had a sufficiency rating of 48.65 out of a possible 100 for a new structure. Bridge maintenance has been performed; however, Bridge No. 8 remains structurally deficient due to deteriorating substructure conditions. These repairs are temporary in nature and the bridge is still in need of replacement.

C. Categorical Exclusion Action Classification: (Check one)

- TYPE I A
- TYPE I B
- TYPE II A
- TYPE II B

D. Proposed Improvements – Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e)(1-6).

E. Special Project Information:

Cost:

The proposed project is included in the 2016-2025 State Transportation Improvement Program (STIP). Project B-5610 is not included in the current STIP (2018-2027). Right of way acquisition and construction are scheduled in the 2016-2025 STIP for federal fiscal years 2022 and 2023, respectively. The estimated costs of the proposed project, indicated in the 2016-2025 STIP, are as follows:

Construction Cost	\$1,404,000
<u>Right of Way Cost</u>	<u>\$70,000</u>
Total Project Cost	\$1,474,000

Design:

Design Standards	Regional Tier
Design Speed	40 mph
Design Exceptions	None
Construction Type	Replace-in-place

Estimated Traffic from Capacity Analysis:

2020 ADT	4,284
2040 ADT	5,700
%Trucks/Duals	8

Accidents:

One vehicular crash (fixed object, non-fatal injuries) was reported from 2012 to 2016.

Bridge Removal:

All existing bridge components will be removed. The removal of piles will be conducted using approved NCDOT Best Management Practice methods.

Alternatives Discussion:

No-Build – The no-build alternative would result in closing the road and removal of Bridge No. 8, which is unacceptable given the local transportation connectivity and volume of traffic served by NC 12.

Rehabilitation – Bridge No. 8 was constructed in 1956 and is structurally deficient. Rehabilitation of the superstructure and substructure would be similar to bridge replacement.

Replace-in-Place with Off-site Detour (Recommended) – Bridge No. 8 will be replaced-in-place with an off-site detour. The off-site detour would begin on NC 12 to Eagle Pass Road (SR 1241) and end on NC 12.

Bicycle and Pedestrian Accommodations:

NCDOT Division of Bicycle and Pedestrian Transportation (DBPT) confirmed the Dare County Comprehensive Transportation Plan's proposed shared use path on NC 12, and recommends 10-foot wide standard shared use paths and 42-inch rail on the bridge. The Village of Hatteras considers NC 12 as a local bike route and Bridge No. 8 as pedestrian access between residences and commercial establishments. The Village of Hatteras proposes a five-foot wide concrete pathway on NC 12 and five-foot sidewalks on the bridge in the Hatteras Village Sidewalk Study Report (December 2018).

The design will include two 15-foot lanes with 5-foot sidewalks on each side on the bridge, and two 15-foot lanes with 10-foot shoulders (5-foot paved sidewalks) on each side on the roadway.

Human Environment:

Community Studies – The Community Impact Assessment (CIA) includes the following key findings and recommendations (responses to recommendations are in italics):

1. Temporary on-site detour for pedestrians and bicyclists to maintain access to community services should construction occurs during the summer tourist season (*indicated in Project Commitments*)
2. NCDOT to coordinate with Hatteras emergency services to develop a construction schedule that does not conflict with the summer tourist season (*indicated in Project Commitments*)
3. NCDOT to coordinate with Public Involvement Community Studies & Visualization (PICSviz) on public outreach (*see the Public Involvement subsection in this section*)
4. NCDOT to coordinate with DBPT on bicycle and pedestrian facilities (*see the Bicycle and Pedestrian Accommodations section*)

Cultural Resources – A Survey Required form and subsequent No Historic Properties Present or Affected form were provided for Historic Architecture. The No Historic Properties Present or Affected form indicates the National Register-listed Hatteras Weather Bureau Station will not be affected by the proposed improvements. Although constructed in 1956, Bridge No. 8 is not eligible for National Register listing. A No Archaeological Survey Required form was provided for Archaeological Resources. Intact archaeological resources associated with the Hatteras Weather Bureau Station are not anticipated within the study area.

Cultural Resources decision documents are included in Attachment B.

Public Involvement – Landowner notification letters, in both English and Spanish versions, were sent to property owners in February 2016. Landowners were invited to comment; however, no comments were received. A newsletter, currently under review with PICSviz, will be sent to property owners and local officials. The newsletter will include the proposed improvements, proposed detour, and project schedule.

Natural Environment:

Jurisdictional Resources – Approximately 530 linear feet of jurisdictional water resource (The Slash) and 0.32 acres of jurisdictional wetlands (salt marsh) were identified within the study area, in the Pasquotank River Basin.

Threatened & Endangered Species – Habitat for the Northern long-eared bat (NLEB) is present within the study area. The US Fish and Wildlife Service (USFWS) has developed a Programmatic Biological Opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), US Army Corps of Engineer (USACE), and NCDOT for the NLEB (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination and biological conclusion for the NLEB is May Affect, Likely to Adversely Affect (MALAA). The PBO provides incidental take coverage for the NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Dare County, where Bridge No. 8 is located. This level of incidental take is authorized from the effective date of a final listing determination through April 30, 2020.

Habitats for the Loggerhead sea turtle, Hawksbill sea turtle, Green sea turtle, Leatherback sea turtle, Kemp's Ridley sea turtle, and West Indian manatee are present within the project study area. Biological conclusions of May Affect, Not Likely to Adversely Affect (MANLAA) were provided. NCDOT will initiate informal consultation with National Marine Fisheries Service (NMFS) for the turtle species to confirm biological conclusions. NCDOT will adhere to Guidelines for Avoiding Impacts to the West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters during construction.

GeoEnvironmental:

The NCDOT GeoEnvironmental Section performed a record search and field review. They found no geoenvironmental concerns and no contaminated properties during the field reconnaissance and regulatory agencies' record search.

Floodplains:

Dare County is included in the National Flood Insurance Program's (NFIP's) Flood Insurance Study (effective September 2006). The project is in The Slash and Sandy Bay Zone AE floodway area, for which 100-year base flood elevations are established.

The NCDOT Hydraulics Unit will coordinate with the Federal Emergency Management Agency (FEMA) to determine if a Conditional Letter of Map Revision (CLOMR) and a subsequent final Letter of Map Revision (LOMR) are required for the project. If required, NCDOT Division 1 will submit sealed as-built construction plans to the Hydraulics Unit upon project completion certifying the project was built as shown on construction plans.

Permits:

Coastal Area Management Act (CAMA) – NC Division of Coastal Management (NCDCM) identified two Areas of Environmental Concern (AEC) within the study area. The Slash is a designated Estuarine Water and Public Trust Water, and the project has coastal wetlands.

Navigable Waters – The Slash is designated by the USACE as Navigable Water under Section 10 of the Rivers and Harbors Act.

Anticipated Permits – USACE Section 404 Nationwide Permit 23 and 33 and corresponding NCDWR Section 401 Water Quality Certifications (WQCs), FEMA Permit, US Coast Guard (USCG) Advance Approval, and CAMA Permit

F. Project Impact Criteria Checklists:

<u>Type I & II - Ground Disturbing Actions</u>				
<u>FHWA APPROVAL ACTIVITIES THRESHOLD CRITERIA</u>				
If any of questions 1-7 are marked "yes" then the CE will require FHWA approval.			Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Does the project require an Individual Section 4(f) approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any of questions 8 through 31 are marked "yes" then additional information will be required for those questions in Section G.				
<u>Other Considerations</u>			Yes	No
8	Does the project result in a finding of "may affect not likely to adversely affect" for listed species, or designated critical habitat under Section 7 of the Endangered Species Act (ESA)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	Is the project located in anadromous fish spawning waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	Does the project impact waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14	Does the project include a Section 106 of the NHPA effects determination other than a no effect, including archaeological remains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>Other Considerations (continued)</u>		Yes	No
15	Does the project involve hazardous materials and/or landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP or the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP) (where applicable)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT's Noise Policy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F

Question 1 – Formal Consultation with USFWS

The USFWS has developed a PBO in conjunction with the FHWA, USACE, and NCDOT for the NLEB (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination and biological conclusion for the NLEB is MALAA. The PBO provides incidental take coverage for the NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Dare County, where Bridge No. 8 is located. This level of incidental take is authorized from the effective date of a final listing determination through April 30, 2020.

Question 8 – Listed Species

Biological conclusions of MANLAA were provided for the Loggerhead sea turtle, Hawksbill sea turtle, Green sea turtle, Leatherback sea turtle, Kemp's Ridley sea turtle, and West Indian manatee. NCDOT will adhere to Guidelines for Avoiding Impacts to the West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters (2003 USFWS) during construction.

Question 10 – Waters Classified under Buffer Rules

The Slash is classified as High Quality Water (HQW).

Question 16 – Regulatory Floodway

The project is in The Slash and Sandy Bay Zone AE floodway area, for which 100-year base flood elevations are established. Bridge No. 8 will be replaced-in-place; however, wider lanes and addition of sidewalk may result in a wider bridge that may encroach on the 100-year base floodplain.

Question 17 – CAMA

The Slash is a designated Estuarine Water and Public Trust Water, and the project has coastal wetlands.

Question 18 – USCG

The project will require USCG Advance Approval.

H. Project Commitments

**Dare County
Replacement of Bridge No. 8
On NC 12 over The Slash
Federal Project No. NHP-0012(016)
WBS No. 45565.1.1
TIP No. B-5610**

NCDOT Hydraulics Unit:

FEMA

The project may encroach but will not adversely affect the FEMA-regulated stream. The Hydraulics Unit will coordinate with FEMA to determine if a CLOMR and a subsequent final LOMR are required for the project.

NCDOT Environmental Analysis Unit:

Federally Threatened Species

NCDOT will initiate informal consultation with the NMFS to confirm biological conclusions for the Loggerhead sea turtle, Hawksbill sea turtle, Green sea turtle, Leatherback sea turtle, and Kemp's Ridley sea turtle.

NCDOT Division 1 Construction:

Construction and Roadway Closure

NCDOT will develop methods to address pedestrian and bicycle accommodations during construction, in coordination with Work Zone Safety.

NCDOT will contact the Dare County Emergency Medical Services' Planning Director at 252-475-5713 at least one month prior to construction to allow first responders to prepare for the anticipated action.

NCDOT will contact the Hatteras Island Rescue Squad at 252-995-5490 at least one month prior to construction to allow marine first responders to prepare for the anticipated action.

NCDOT will contact the Hatteras Village Volunteer Fire Department at 252-986-2356 at least one month prior to construction to allow emergency personnel to prepare for the anticipated action.

NCDOT will contact the Dare County Schools' Supervisor of Transportation at 252-473-3717 Ext. 3402 at least one month prior to construction to allow schools to prepare for the anticipated action.

FEMA

If a CLOMR and subsequent final LOMR are required for the project, NCDOT will submit sealed as-built construction plans to the Hydraulics Unit upon project completion certifying the project was built as shown on construction plans.

**Dare County
Replacement of Bridge No. 8
On NC 12 over The Slash
Federal Project No. NHP-0012(016)
WBS No. 45565.1.1
TIP No. B-5610**

HQW

NCDOT will adhere to NCDWR's Design Standards for Sensitive Watersheds to avoid and minimize impacts to the designated HQW (The Slash).

West Indian Manatee

NCDOT will provide conditions to contractors to adhere to guidelines outlined in GUIDELINES FOR AVOIDING IMPACTS TO THE WEST INDIAN MANATEE Precautionary Measures for Construction Activities in North Carolina Waters (2003 USFWS).

I. Categorical Exclusion Approval

STIP Project No. B-5610
WBS Element 45565.1.1
Federal Project No. NHP-0012(016)

Prepared By:

7/18/2019

Date

DocuSigned by:

Ray Magsanoc

87B8D2468B30470

Ray Magsanoc, Consultant Project Manager, STEWART

Prepared For:

Kristy Alford, PE, Engineering Supervisor III
NCDOT Structures Management Unit

Reviewed By:

7/18/2019

Date

DocuSigned by:

Phil Harris

8C16A3F6874A457

Philip S. Harris III, PE, CPM
NCDOT Environmental Analysis Unit Head



Approved

If all of the threshold questions (1 through 7) of Section F are answered "no," NCDOT approves this Categorical Exclusion.



Certified

If any of the threshold questions (1 through 7) of Section F are answered "yes," NCDOT certifies this Categorical Exclusion.

7/24/2019

Date

DocuSigned by:

Kevin Fischer

ED19A18D98EC406

Kevin Fischer, PE, Assistant Structures Engineer
NCDOT Structures Management Unit

FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

N/A

Date

N/A

John F. Sullivan, III, PE, Division Administrator
Federal Highway Administration

ATTACHMENT A



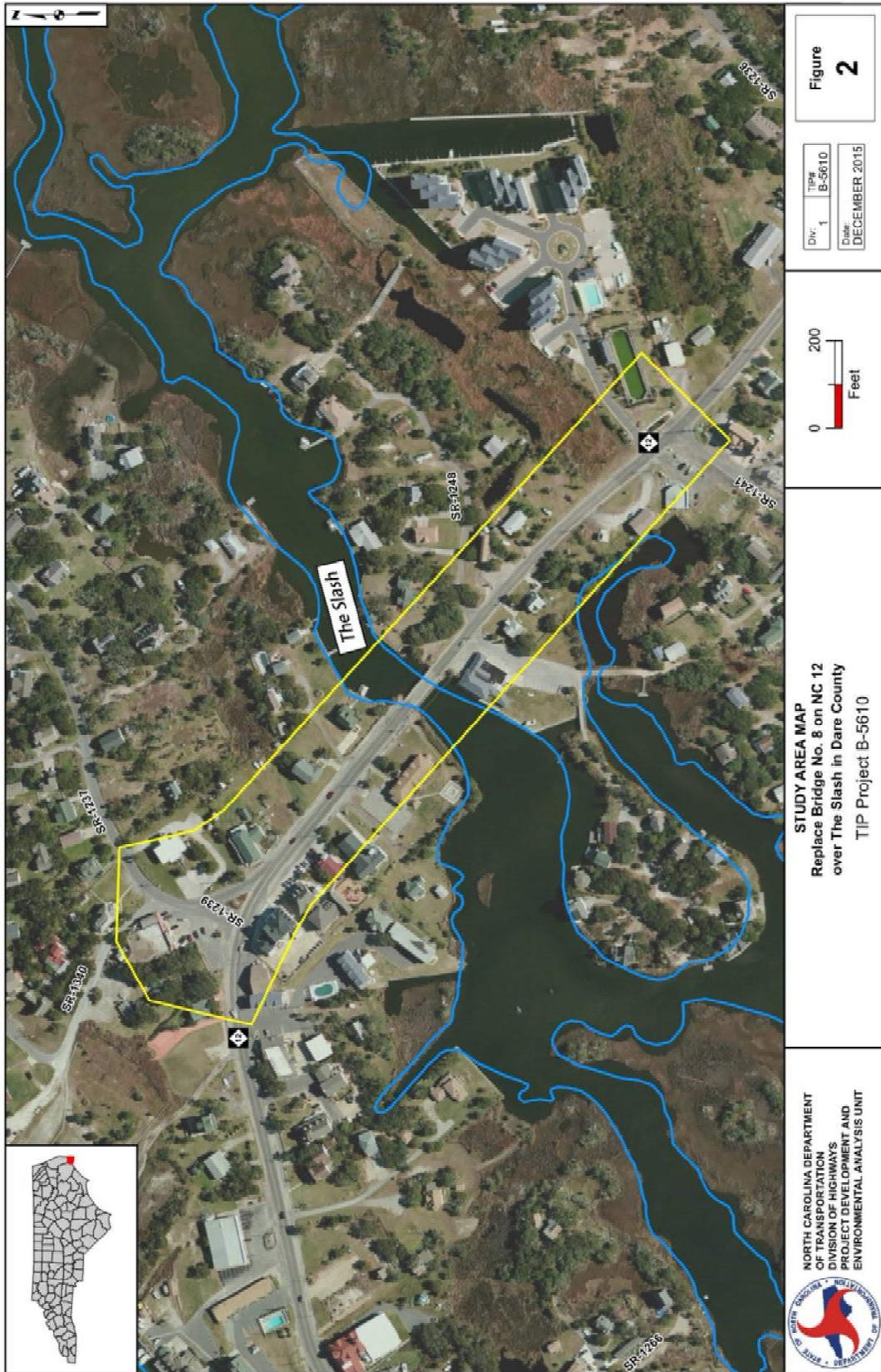


Figure
2

Div: 1
TIP#: B-5610
Date: DECEMBER 2015

0 200
Feet

STUDY AREA MAP
 Replace Bridge No. 8 on NC 12
 over The Slash in Dare County
 TIP Project B-5610

NORTH CAROLINA DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PROJECT DEVELOPMENT AND
 ENVIRONMENTAL ANALYSIS UNIT



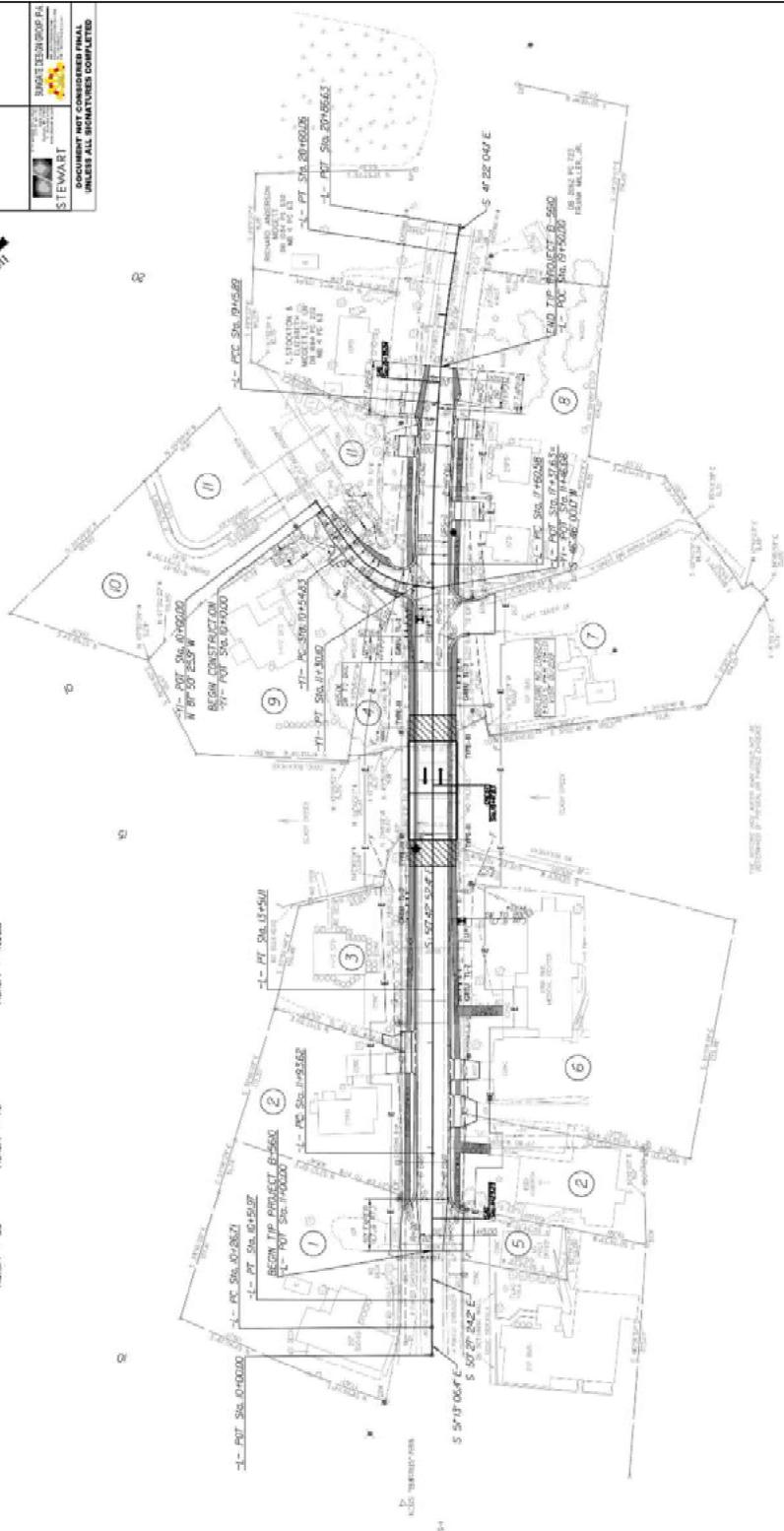
PROJECT REFERENCE NO. SHEET NO.
 17-0003 17-0003
 PROJECT NAME
 PROJECT

INCOMPLETE PLANS
 DO NOT USE FOR CONSTRUCTION

STEWA RT
 DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65	P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65	P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65	P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65	P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65	P1 SW 01-39.24 D = 17.00 L = 25.32 P = 150.00 S = E.054 Rcurve = 65
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FOR SIGNATURE TABLE SHEETS 17-0003 17-0003

ATTACHMENT B

Project Tracking No. (Internal Use)

15-12-0020



HISTORIC ARCHITECTURE AND LANDSCAPES **SURVEY REQUIRED FORM**

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

PROJECT INFORMATION

Project No:	B-5610	County:	Dare
WBS No.:	45565.1.1	Document Type:	CE
Fed. Aid No:	NHP-0012(016)	Funding:	<input type="checkbox"/> State <input checked="" type="checkbox"/> Federal
Federal Permit(s):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Permit Type(s):	NWP
Project Description: Replace Bridge No. 8 on NC 12 over Canal.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on January 5, 2016. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects, which is approximately 900' from each end of the bridge, 150' from the existing centerline each way, and includes the intersection of Kohler Road and NC 12. The National Register listed Hatteras Weather Bureau Station is within the APE, as are several properties over fifty years of age. A survey will be required to assess these structures.

SUPPORT DOCUMENTATION

Map(s) Previous Survey Info. Photos Correspondence Design Plans

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- **SURVEY REQUIRED**

Kate Husel 1/6/2016
 NCDOT Architectural Historian Date

Anticipated Fieldwork Completion Date: July 2016

15-12-0020



**HISTORIC ARCHITECTURE AND LANDSCAPES
NO HISTORIC PROPERTIES PRESENT OR AFFECTED FORM**

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

PROJECT INFORMATION

Project No:	B-5610	County:	Dare
WBS No.:	45565.1.1	Document Type:	
Fed. Aid No:	NHP-0012(016)	Funding:	<input type="checkbox"/> State <input checked="" type="checkbox"/> Federal
Federal Permit(s):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Permit Type(s):	NWP
Project Description: Replace Bridge No. 8 on NC 12 over Canal.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- There are no properties within the project's area of potential effects.
- There are properties over fifty years old within the area of potential effects, but they do not meet the criteria for listing on the National Register.
- There are no historic properties present or affected by this project. (Attach any notes or documents as needed.)

Date of field visit:

Description of review activities, results, and conclusions:

Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on January 5, 2016. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects, which is approximately 900' from each end of the bridge, 150' from the existing centerline each way, and includes the intersection of Kohler Road and NC 12. The National Register listed Hatteras Weather Bureau Station is within the APE, as are several properties over fifty years of age. A survey was required and performed March of 2016. There were no potentially eligible properties identified within the APE, and Bridge No. 8 is not eligible for NR listing based on the NCDOT Bridge Inventory. The National Register listed site will not be affected by this project based on plans provided on March 14, 2018. No historic properties will be affected by this project. If design plans change, additional review will be required.

SUPPORT DOCUMENTATION

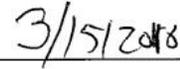
Map(s) Previous Survey Info. Photos Correspondence Design Plans

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes – **NO HISTORIC PROPERTIES PRESENT OR AFFECTED**



NCDOT Architectural Historian



Date

15-12-0020**NO ARCHAEOLOGICAL SURVEY REQUIRED FORM**

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.

**PROJECT INFORMATION**

Project No: **B-5610** County: **Dare**
 WBS No: **45565.1.1** Document: **CE**
 F.A. No: **NHP-0012(016)** Funding: State Federal

Federal Permit Required? Yes No Permit Type: **NWP**

Project Description: The NCDOT proposes to replace Bridge No. 8 on NC 12 over a Canal (The Slash) on Hatteras Island in Dare County. Bridge No. 8 was built in 1956, reconstructed in 1960, and is considered to be structurally deficient and functionally obsolete. The Proposed Study Area for the project will be centered on the bridge and measure 300 feet wide by 1,700 feet long and include the intersection with Kohler Drive (SR 1237). Overall, the Study Area will encompass about 508,838 square feet (11.68 acres), inclusive of the existing roadway and structure to be replaced.

SUMMARY OF CULTURAL RESOURCES REVIEW***Brief description of review activities, results of review, and conclusions:***

A map review and site file search was conducted at the Office of State Archaeology (OSA) on Monday, January 11, 2016. No archaeological surveys have been conducted along this particular stretch of NC 12, and only one (1) archaeological site has been recorded within one-half (1/2) mile of the proposed project. Digital copies of HPO's maps (Hatteras Quadrangle) as well as the HPOWEB GIS Service (<http://gis.ncdcr.gov/hpweb/>) were last reviewed on Tuesday, January 19, 2016. There is one (1) known historic architectural resource (Old Hatteras Weather Bureau Station [DR0009, a 1901 1.5-story frame office/residence]) located adjacent to the Study Area; however, intact archaeological deposits associated with this resource are not anticipated within the footprint of the proposed project. In addition, topographic maps, historic maps (NCMaps website), USDA soil survey maps, and aerial photographs were utilized and inspected to gauge environmental factors that may have contributed to historic or prehistoric settlement within the project limits, and to assess the level of modern, slope, agricultural, hydrological, and other erosive-type disturbances within and surrounding the archaeological APE.

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

This is a Federally-funded project that will require a Federal permit. The need for temporary and/or permanent easements has not been determined; however, the overall dimensions of the Study Area will capture any necessary easements. At this time, we are in compliance with NC GS 121-12a, since there are no eligible (i.e. National Register-listed) archaeological resources located within the project's Area of Potential Effects (APE) that would require our attention. Although the Old Hatteras Weather Bureau Station (a National Register-listed property) is located nearby, intact archaeological components are not anticipated within the Study Area. The nomination for the Station notes that "the village has grown up around the station and a paved road has been cut across part of the front yard so that the historic scene has been compromised." Based on the sheer size of the Study Area, activities may take place beyond the

"No ARCHAEOLOGY SURVEY REQUIRED" form for Minor Transportation Projects as Qualified in the 2007/2015 Programmatic Agreement.

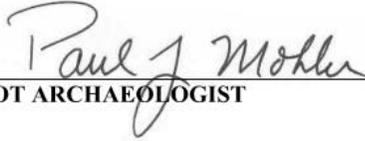
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NCDOT's existing 60-ft ROW (north of the canal) or 80-ft ROW (south of the canal). From an environmental perspective, the Study Area falls within Hatteras Village on North Carolina's Outer Banks, and is composed of two (2) soil types: Duckston fine sand, 0-2% slopes, occasionally flooded (DtA) and Carteret sand, 0-2% slopes, frequently flooded (CeA). The poorly drained/very poorly drained soil conditions within the Study Area are not favorable for containing intact archaeological sites/resources. Preservation of archaeological materials within such soil types is likely to be poor. Much, if not all, of the Study Area consists of residential and commercial structures that make up the center of Hatteras Village. More importantly, the Office of State Archaeology (OSA) has reviewed several projects within the vicinity of Bridge No. 8 for environmental compliance, two of which are located along the Canal (The Slash) (5-acres for Slash Condos [ER 02-8629] and temporary disaster debris site on Slash Creek [ER 03-2600]). Other nearby projects include the installation of bulkheads, piers/piles, riprap, and water tanks and the filling in of wetlands (ER 02-10003, ER 09-2754, ER 10-2183, CT 10-1038, ER 04-1257). An archaeological survey was not recommended for any of these projects, including the ones along the Canal, which were deemed to have a low probability for containing intact archaeological resources. Based on the nature of the proposed project, current soil conditions, and previous review work, it is believed that the current Study Area, as depicted, is unlikely to contain intact and significant archaeological resources. No archaeological survey is required for this project. If design plans change or are made available prior to construction, then additional consultation regarding archaeology will be required. At this time, no further archaeological work is recommended. If archaeological materials are uncovered during project activities, then such resources will be dealt with according to the procedures set forth for "unanticipated discoveries," to include notification of NCDOT's Archaeology Group.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
 Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST**NO ARCHAEOLOGY SURVEY REQUIRED**


NCDOT ARCHAEOLOGIST

January 19, 2016

Date