



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

August 19, 2011

United States Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27899-1000

ATTN: Mr. Bill Biddlecome
NCDOT Coordinator-Division One

Dear Sir,

SUBJECT: **Section 404 Nationwide 6, Section 10 Permit, and Section 401 Water Quality Certification MODIFICATION REQUEST FOR ADDITIONAL BORINGS:** Replacement of Bridge 11 over The Oregon Inlet on NC 12 in Dare County, North Carolina; TIP Project B-2500; Federal Aid Project No. BRS-2358(15); WBS Element: 32635.1.3

REFERENCE: Previous Nationwide 6, Action ID No. SAW-2001-00107, issued 1/13/2011

The North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit is in the process of planning a limited number of additional subsurface investigations for the foundation design for the replacement of Bridge No. 11 over The Oregon Inlet in Dare County, North Carolina. Now that the project has been awarded to a design build contractor, and more detailed design is being conducted, additional borings are needed to complete the design. A completed pre-construction notification form and appropriate site drawings are attached for your review.

As Oregon Inlet is designated as a "High Quality Water", and work will be occurring on a barrier island, notification to the appropriate agencies through a Nationwide 6 Permit is required.

The design firm, HDR Engineering, Inc. of the Carolinas, and their subconsultants will conduct the geotechnical investigation, with up to 50 soil test borings to be performed. These ~50 borings will be performed in the corridor shown on the attached site map, with the majority being performed in Oregon Inlet and Pamlico Sound. The mapping shows 46 borings, but additional borings may need to be added during the field effort depending on site conditions. These additional borings are required to finalize structure design and slight shifts in the alignment in an effort to minimize environmental impacts.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

The borings in the inlet, and most of the borings in the sound, will be performed from a barge. The borings will consist of turning a 4-inch diameter steel casing into the sound bottom, creating minimal disturbance. Other drilling tools will be used to sample the sediments and advance the boring within the steel casing. The steel casing will be removed upon completing the boring.

Borings drilled on land, or in shallow water in the sound, will be performed with rubber tire drill rigs or low ground pressure tracked drill rigs, depending on the boring location. The land borings will also be 4-inch diameter casings. Any disturbance from the borings should be limited to within a 2-foot radius of the boring location.

As this area is located in sensitive waters, an in- water moratorium exists from February 15 through October 31. Also, geotechnical work during the moratorium dates will only take place in areas where the equipment will float completely without contact to the bottom. Any investigations that require track vehicles or entry where flotation is not possible will occur outside of the moratorium (November 1 – February 14).

Regulatory Approvals:

The NCDOT anticipates that these activities will be authorized by Nationwide Permit No. 6. NCDOT will follow the conditions set by a Nationwide Permit No. 6 and by NCDWQ Water Quality Certification #3687. In accordance with 15A NCAC 2H.0501 (a), we are providing two copies of this application to the NCDWQ for their records.

In addition to the above mentioned application, Special Use Permits from the National Park Service and US Fish and Wildlife Service are also being applied for under separate cover.

If you have any questions or would like additional information, please contact Michael Turchy at maturchy@ncdot.gov or (919) 707-6157. A copy of this application, and its distribution list, will also be posted at <http://www.doh.dot.state.nc.us/preconstruct/pe/>.

Sincerely,



for

Gregory J. Thorpe, Ph.D.

Branch Manager

Project Development and Environmental Analysis Branch

cc:

NCDOT Permit Application Standard Distribution List



Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input checked="" type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 6 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input type="checkbox"/> 401 Water Quality Certification – Regular	<input type="checkbox"/> Non-404 Jurisdictional General Permit	
<input type="checkbox"/> 401 Water Quality Certification – Express	<input type="checkbox"/> Riparian Buffer Authorization	
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. 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.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridge 11 over Oregon Inlet on NC 12
2b. County:	Dare
2c. Nearest municipality / town:	Rodanthe
2d. Subdivision name:	
2e. NCDOT only, T.I.P. or state project no:	B-2500

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	
3c. Responsible Party (for LLC if applicable):	
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	919-707-6157
3g. Fax no.:	919-212-5785
3h. Email address:	maturchy@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	
1b. Site coordinates (in decimal degrees):	Latitude: 35.77271 (DD.DDDDDD) Longitude: - 75.53754 (-DD.DDDDDD)
1c. Property size:	acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Oregon Inlet/Pamlico Sound
2b. Water Quality Classification of nearest receiving water:	SA
2c. River basin:	Pasquotank
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Natural intertidal marsh and open water, partially within the Cape Hatteras National Seashore	
3b. List the total estimated acreage of all existing wetlands on the property: The 2.5-mile corridor is primarily either wetland or open water	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: n/a	
3d. Explain the purpose of the proposed project: Subsurface investigations to finalize the foundation design of the replacement structure	
3e. Describe the overall project in detail, including the type of equipment to be used: The borings in the inlet, and most of the borings in the sound, will be performed from a barge. The borings will consist of turning a 4-inch diameter steel casing into the sound bottom, creating minimal disturbance. Other drilling tools will be used to sample the sediments and advance the boring within the steel casing. The steel casing will be removed upon completing the boring. Any borings drilled on land, or in shallow water in the sound, will be performed with rubber tire drill rigs or low ground pressure tracked drill rigs, depending on the boring location. The land borings will also be 4-inch in diameter. Any disturbance from the borings should be limited to within a 2- foot radius of the boring location.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Jeff Coward	Agency/Consultant Company: CZR Inc. Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. May 2006 - currently being renewed by NCDOT	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions. NW 6, Action 10200310829, Issued 11/13/2003; NW 6, Action ID SAW-2011-00107, issued 1/13/2011.	

6. Future Project Plans

6a. Is this a phased project?

Yes

No

6b. If yes, explain.

The geotechnical work will be conducted for the final design of Phase I (per the ROD) of the replacement of the Bonner Bridge only.

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input checked="" type="checkbox"/> Wetlands <input type="checkbox"/> Streams - tributaries <input type="checkbox"/> Buffers <input checked="" type="checkbox"/> Open Waters <input type="checkbox"/> Pond Construction						
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
W1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Geotech Borings	intertidal marsh	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
W2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					<0.01 (temporary)	
2h. Comments:						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
S1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						
3i. Comments:						

4. Open Water Impacts

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

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Oregon Inlet/ Pamlico Sound	Geotechnical Borings	open water	<0.01 (temporary)
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				<0.01 (temporary)

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

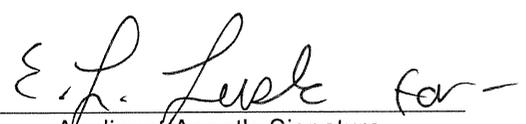
5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, permit ID no:
5i. Expected pond surface area (acres):			
5j. Size of pond watershed (acres):			
5k. Method of construction:			

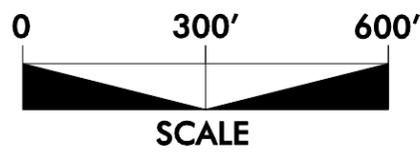
6. Buffer Impacts (for DWQ)					
If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.					
6a. Project is in which protected basin?			<input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman		
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					
D. Impact Justification and Mitigation					
1. Avoidance and Minimization					
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The borings in the inlet, and most of the borings in the sound, will be performed from a barge. Any borings drilled on land will be performed with rubber tire drill rigs or low ground pressure tracked drill rigs.					
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. A 4" steel casing will be turned or driven into the sound bottom, and all materials will be contained within the steel casing. Drilling fluids will be contained to the extent practical. Due to the potential for submerged aquatic vegetation, only equipment that floats and will not drag on the bottom will be used from February 15- October 31. NCDOT will implement "Guidelines for Avoiding Impacts to the West Indian Manatee, Precautionary Measures for Construction Activities in North Carolina Waters," during work for this project.					
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?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2b. If yes, mitigation is required by (check all that apply):			<input type="checkbox"/> DWQ <input type="checkbox"/> Corps		
2c. If yes, which mitigation option will be used for this project?			<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation		
3. Complete if Using a Mitigation Bank					
3a. Name of Mitigation Bank:					
3b. Credits Purchased (attach receipt and letter)			Type	Quantity	

3c. Comments:				
4. Complete if Making a Payment to In-lieu Fee Program				
4a. Approval letter from in-lieu fee program is attached.			<input type="checkbox"/> Yes	
4b. Stream mitigation requested:			linear feet	
4c. If using stream mitigation, stream temperature:			<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):			square feet	
4e. Riparian wetland mitigation requested:			acres	
4f. Non-riparian wetland mitigation requested:			acres	
4g. Coastal (tidal) wetland mitigation requested:			acres	
4h. Comments:				
5. Complete if Using a Permittee Responsible Mitigation Plan				
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.				
6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	n/a %
2b. Does this project require a Stormwater Management Plan?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why: subsurface exploration only	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan:	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	n/a
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other: N/A
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.) Comments: NEPA FEIS/ROD for TIP B-2500	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility.	

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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS website and agency consultation; FEIS/ROD		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS county index; FEIS/ROD		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA documentation; FEIS/ROD		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: N/A		
8c. What source(s) did you use to make the floodplain determination? N/A		
Gregory J. Thayer, PhD Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	8.19.11 Date



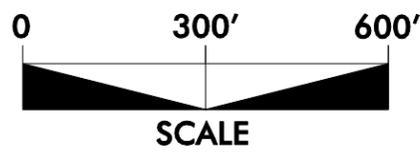
GEOTECHNICAL BORING PLAN LAYOUT



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-  EXISTING BORING LOCATION
-  PROPOSED BORING LOCATION
-  PROPOSED BORING LOCATION IN SAV AREA

5/14/99
 PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
 USER: swhrwr1
 FILE: PCL_Civil_Const\B-2500_Bonner_Bridge_Replacement\06.00_NCDOT_File_Structure\B-2500\Geotech\Additional Borings Request\B2500_RDY_BORING_PERMIT_DRAWINGS.dgn
 PENTABLE: B-2500_RDY_BORINGS_PERMIT.tbl
 TIME: 9:48:32 AM
 DATE: 8/10/2011



GEOTECHNICAL BORING PLAN LAYOUT

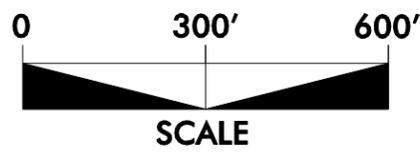


PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

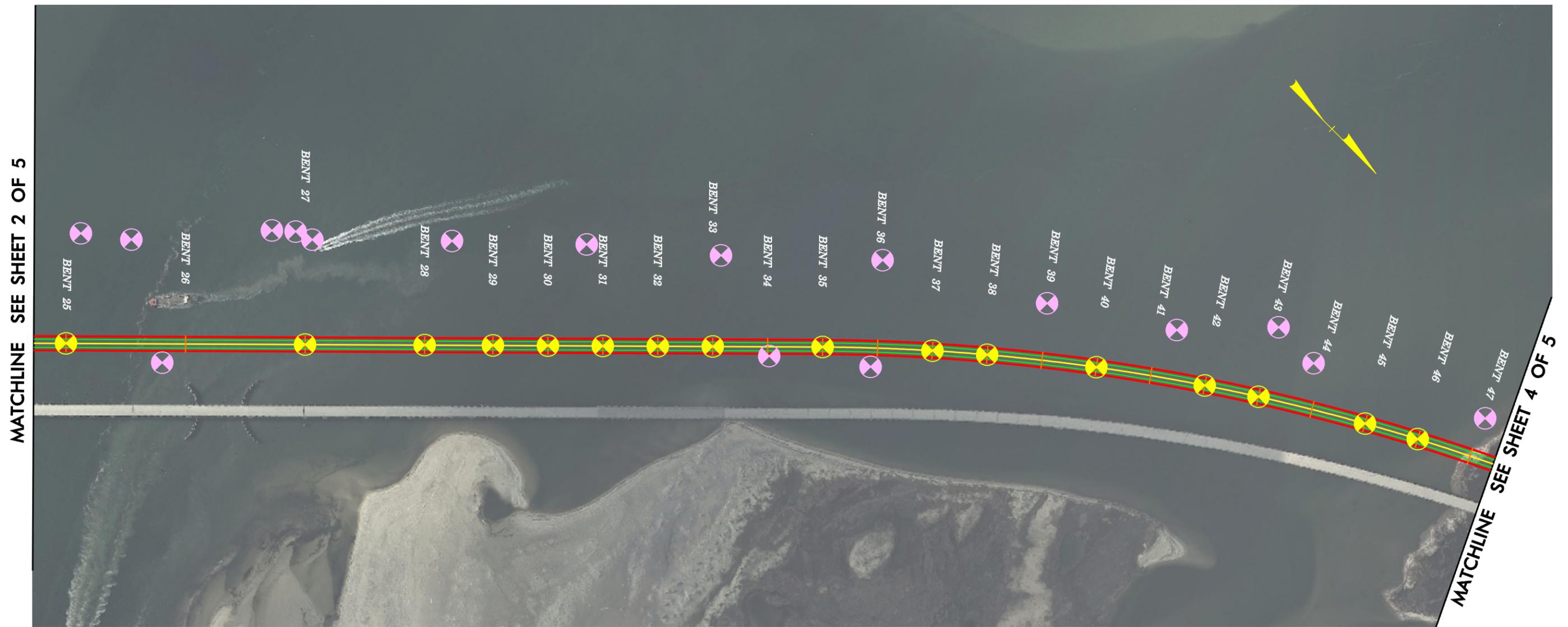
-  EXISTING BORING LOCATION
-  PROPOSED BORING LOCATION
-  PROPOSED BORING LOCATION IN SAV AREA

PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
 USER: swhrwr1
 FILE: PCL_Civil_Const\B-2500_Bonner_Bridge_Replacement\06.00_NCDOT_File_Structure\B-2500\Geotech\Additional Borings Request\B2500_RDY_BORING_PERMIT_DRAWINGS.dgn
 PENTABLE: B-2500_RDY_BORINGS_PERMIT.tbl
 TIME: 9:49:04 AM
 DATE: 8/10/2011

5/14/99



GEOTECHNICAL BORING PLAN LAYOUT



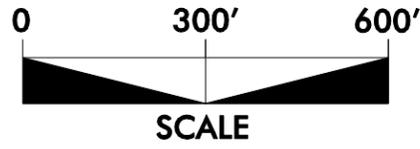
MATCHLINE SEE SHEET 2 OF 5

MATCHLINE SEE SHEET 4 OF 5

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-  EXISTING BORING LOCATION
-  PROPOSED BORING LOCATION
-  PROPOSED BORING LOCATION IN SAV AREA

PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
 USER: swhfwr1
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 TIME: 9:49:36 AM
 DATE: 8/10/2011
 5/14/99



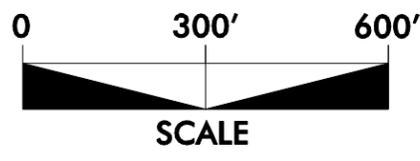
GEOTECHNICAL BORING PLAN LAYOUT



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-  EXISTING BORING LOCATION
-  PROPOSED BORING LOCATION
-  PROPOSED BORING LOCATION IN SAV AREA

PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
 USER: swhrwr1
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 DATE: 8/10/2011
 5/14/99



GEOTECHNICAL BORING PLAN LAYOUT



MATCHLINE SEE SHEET 4 OF 5

-  EXISTING BORING LOCATION
-  PROPOSED BORING LOCATION
-  PROPOSED BORING LOCATION IN SAV AREA

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
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