



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

July 25, 2013

Wilmington Regulatory Field Office  
US Army Corp. of Engineers  
69 Darlington Avenue  
Wilmington, NC 28403

ATTN: Brad Shaver  
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 Nationwide Permit 6 and Section 401 Water Quality Certification** for the proposed installation of a non-production drilled pier foundation to complete static axial load testing prior to the proposed replacement of the US 17-74-76/NC 133 bridge over the Brunswick River, Brunswick County. Federal Aid Project No. NHS-0017(68); TIP No. R-3601.

Reference: R-3601 Nationwide Permit 23 application, submitted May 1, 2013

Please find enclosed a Pre-Construction Notification (PCN) form and drawing for the above referenced activity. The North Carolina Department of Transportation (NCDOT) proposes to complete Osterberg cell load testing on a non-production drilled pier foundation for the replacement bridge over the Brunswick River as part of project R-3601. This pier will be placed at a non-bent location and removed down to the existing riverbed after approximately three months. All impacts related to the test pier will be contained within a 10 foot diameter area (78.5 square feet).

The proposed design-build let date for this project is November 19, 2013, which means that the project can commence by that date if all permits have been received.

### Regulatory Approvals

Section 404 Permit: The NCDOT requests that these activities be authorized by a Nationwide Permit 6.

Section 401 Permit: We anticipate 401 General Certification number 3883 will apply to this project. All general conditions of the Water Quality Certification will be met; therefore no written concurrence is requested.

A copy of this permit application will be posted on the NCDOT Website at:  
<https://connect.ncdot.gov/resources/Environmental/>

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Amy James at [aejames2@ncdot.gov](mailto:aejames2@ncdot.gov) or (919) 707-6129.

Sincerely,



*for*

Gregory J. Thorpe, Ph.D., Manager  
Project Development and Environmental Analysis Unit

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 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 checked="" type="checkbox"/> Yes   | <input checked="" type="checkbox"/> No   |
| 1d. Type(s) of approval sought from the DWQ (check all that apply):   |   |  |
| <input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <span style="margin-left: 100px;"><input type="checkbox"/> Non-404 Jurisdictional General Permit</span><br><input type="checkbox"/> 401 Water Quality Certification – Express <span style="margin-left: 100px;"><input type="checkbox"/> Riparian Buffer Authorization</span> |   |  |
| 1e. Is this notification solely for the record because written approval is not required?  | For the record only for DWQ 401 Certification:<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | For the record only for Corps Permit:<br><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:                         | Installation of drilled pier for static axial load test (Osterberg cell method) |
| 2b. County:                                  | Brunswick   |
| 2c. Nearest municipality / town:             | Leland  |
| 2d. Subdivision name:                        | <i>not applicable</i>   |
| 2e. NCDOT only, T.I.P. or state project no.: | R-3601  |

#### 3. Owner Information

|  |   |
|--|---|
| 3a. Name(s) on Recorded Deed:                  | North Carolina Department of Transportation |
| 3b. Deed Book and Page No.                     | <i>not applicable</i>                       |
| 3c. Responsible Party (for LLC if applicable): | <i>not applicable</i>                       |
| 3d. Street address:                            | 1598 Mail Service Center                    |
| 3e. City, state, zip:                          | Raleigh, NC 27699-1598                      |
| 3f. Telephone no.:                             | (919) 707-6129                              |
| 3g. Fax no.:                                   | (919) 212-5785                              |
| 3h. Email address:                             | aejames2@ncdot.gov                          |

|   |   |
|---|---|
| <b>4. Applicant Information (if different from owner)</b> |   |
| 4a. Applicant is:   | <input type="checkbox"/> Agent <input type="checkbox"/> Other, specify: |
| 4b. Name:   | <i>not applicable</i>   |
| 4c. Business name (if applicable):                        |   |
| 4d. Street address:                                       |   |
| 4e. City, state, zip:                                     |   |
| 4f. Telephone no.:  |   |
| 4g. Fax no.:  |   |
| 4h. Email address:  |   |
| <b>5. Agent/Consultant Information (if applicable)</b>    |   |
| 5a. Name:   | <i>not applicable</i>   |
| 5b. Business name (if applicable):                        |   |
| 5c. Street address:                                       |   |
| 5d. City, state, zip:                                     |   |
| 5e. Telephone no.:  |   |
| 5f. Fax no.:  |   |
| 5g. Email address:  |   |

| <b>B. Project Information and Prior Project History</b>  |  |
|--|--|
| <b>1. Property Identification</b>  |  |
| 1a. Property identification no. (tax PIN or parcel ID):  | <i>not applicable</i>  |
| 1b. Site coordinates (in decimal degrees):   | Latitude: 34.234246<br>(DD.DDDDDD)                      Longitude: - 77.986229<br>(-DD.DDDDDD)       |
| 1c. Property size:   | 71 acres (entire project)  |
| <b>2. Surface Waters</b>   |  |
| 2a. Name of nearest body of water (stream, river, etc.) to proposed project:   | Brunswick River  |
| 2b. Water Quality Classification of nearest receiving water:   | SC   |
| 2c. River basin:   | Cape Fear  |
| <b>3. Project Description</b>  |  |
| 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:<br><br>In the vicinity of the Brunswick River bridge, most of the land is either undeveloped marsh land or residential development.  |  |
| 3b. List the total estimated acreage of all existing wetlands on the property:<br><br>129.5 (entire project)   |  |
| 3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property:<br><br>3,155 (entire project)   |  |
| 3d. Explain the purpose of the proposed project:<br>To complete static axial load testing (Osterberg cell method) in preparation for replacing the existing bridges over the Brunswick River.  |  |
| 3e. Describe the overall project in detail, including the type of equipment to be used:<br>A non-production drilled pier will be placed at a non-bent location in the river and removed after approximately three months. Test drilled pier construction procedures will match those proposed for production drilled piers, so installation will likely involve a vibratory hammer, cranes, and other bridge building equipment. |  |
| <b>4. Jurisdictional Determinations</b>  |  |
| 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?<br>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 checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final                       |
| 4c. If yes, who delineated the jurisdictional areas?<br>Name (if known): NCDOT (Amy James)   | Agency/Consultant Company:<br>Other:   |
| 4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.<br>A preliminary JD was received for this part of the project on October 6, 2008.  |  |
| <b>5. Project History</b>  |  |
| 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.<br>A nationwide 23 permit application for the entire R-3601 project was submitted on May 1, 2013.   |  |
| <b>6. Future Project Plans</b>   |  |
| 6a. Is this a phased project?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                  |
| 6b. If yes, explain.   |  |

| <b>C. Proposed Impacts Inventory</b>   |                       |  |  |  |                                    |                                    |
|--|-----------------------|--|--|--|------------------------------------|------------------------------------|
| <b>1. Impacts Summary</b>  |                       |  |  |  |                                    |                                    |
| 1a. Which sections were completed below for your project (check all that apply):   |                       |  |  |  |                                    |                                    |
| <input type="checkbox"/> Wetlands  |                       | <input type="checkbox"/> Streams - tributaries |  | <input type="checkbox"/> Buffers                                   |                                    |                                    |
| <input checked="" type="checkbox"/> Open Waters  |                       | <input type="checkbox"/> Pond Construction     |  |  |                                    |                                    |
| <b>2. Wetland Impacts</b>  |                       |  |  |  |                                    |                                    |
| If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.   |                       |  |  |  |                                    |                                    |
| 2a.<br>Wetland impact number – Permanent (P) or Temporary (T)  | 2b.<br>Type of impact | 2c.<br>Type of wetland (if known)              | 2d.<br>Forested  | 2e.<br>Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) | 2f.<br>Area of impact (acres)      |                                    |
| Site 1 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 2 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 3 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 4 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 5 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 6 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| <b>2g. Total wetland impacts</b>   |                       |  |  |  | X Permanent<br>X Temporary         |                                    |
| 2h. Comments:  |                       |  |  |  |                                    |                                    |
| <b>3. Stream Impacts</b>   |                       |  |  |  |                                    |                                    |
| 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.<br>Stream impact number - Permanent (P) or Temporary (T)   | 3b.<br>Type of impact | 3c.<br>Stream name                             | 3d.<br>Perennial (PER) or intermittent (INT)?                | 3e.<br>Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) | 3f.<br>Average stream width (feet) | 3g.<br>Impact length (linear feet) |
| Site 1 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 2 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 3 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 4 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 5 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| Site 6 <input type="checkbox"/> P <input type="checkbox"/> T   |                       |  | <input type="checkbox"/> PER<br><input type="checkbox"/> INT | <input type="checkbox"/> Corps<br><input type="checkbox"/> DWQ     |                                    |                                    |
| <b>3h. Total stream and tributary impacts</b>  |                       |  |  |  |                                    | X Perm<br>X Temp                   |
| 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.<br>Open water impact number – Permanent (P) or Temporary (T)    | 4b.<br>Name of waterbody (if applicable) | 4c.<br>Type of impact | 4d.<br>Waterbody type | 4e.<br>Area of impact (acres)    |
|---|--|-----------------------|-----------------------|----------------------------------|
| O1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T | Brunswick River                          | Temporary fill        | Tributary             | <0.01                            |
| 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            |  |                       |                       |                                  |
| <b>4f. Total open water impacts</b>                                 |  |                       |                       | 0.0 Permanent<br><0.01 Temporary |

4g. Comments: 10 ft. diameter (78.5 sq. ft.)

**5. Pond or Lake Construction**

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

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

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.<br>Project is in which protected basin?                  |                          | <input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other:<br><input type="checkbox"/> Catawba <input type="checkbox"/> Randleman |   |                                    |                                    |
| 6b.<br>Buffer impact number – Permanent (P) or Temporary (T) | 6c.<br>Reason for impact | 6d.<br>Stream name   | 6e.<br>Buffer mitigation required?                          | 6f.<br>Zone 1 impact (square feet) | 6g.<br>Zone 2 impact (square feet) |
| B1 <input type="checkbox"/> P <input type="checkbox"/> T     |                          |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                    |                                    |
| B2 <input type="checkbox"/> P <input type="checkbox"/> T     |                          |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                    |                                    |
| B3 <input type="checkbox"/> P <input type="checkbox"/> T     |                          |  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |                                    |                                    |
| <b>6h. Total buffer impacts</b>                              |                          |  |   |                                    |                                    |
| 6i. Comments:  |                          |  |   |                                    |                                    |



|   |  |          |
|---|--|----------|
| <b>D. Impact Justification and Mitigation</b>   |  |          |
| <b>1. Avoidance and Minimization</b>  |  |          |
| 1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.<br>The test pier will be removed to the existing riverbed; reflective material will be used on that part of the pier above the waterline so that navigation will not be impeded.   |  |          |
| 1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.<br>NCDOT is negotiating with the National Marine Fisheries Service, NC Wildlife Resources Commission, and NC Division of Marine Fisheries to determine an appropriate in-water work moratorium for the proposed activity. |  |          |
| <b>2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State</b>  |  |          |
| 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<br>If no, explain: The activity is temporary.  |          |
| 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<br><input type="checkbox"/> Payment to in-lieu fee program<br><input type="checkbox"/> Permittee Responsible Mitigation |          |
| <b>3. Complete if Using a Mitigation Bank</b>   |  |          |
| 3a. Name of Mitigation Bank: not applicable   |  |          |
| 3b. Credits Purchased (attach receipt and letter)   | Type   | Quantity |
| 3c. Comments:   |  |          |
| <b>4. Complete if Making a Payment to In-lieu Fee Program</b>   |  |          |
| 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:   |  |          |
| <b>5. Complete if Using a Permittee Responsible Mitigation Plan</b>   |  |          |
| 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?

Yes       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.

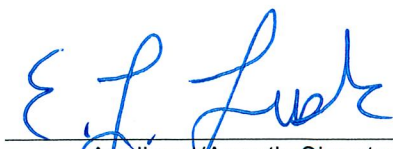
| Zone   | 6c.<br>Reason for impact | 6d.<br>Total impact<br>(square feet) | Multiplier        | 6e.<br>Required mitigation<br>(square feet) |
|--|--------------------------|--------------------------------------|-------------------|---|
| Zone 1                                       |                          |                                      | 3 (2 for Catawba) |   |
| Zone 2                                       |                          |                                      | 1.5               |   |
| <b>6f. Total buffer mitigation required:</b> |                          |                                      |                   |   |

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:

| <b>E. Stormwater Management and Diffuse Flow Plan (required by DWQ)</b>  |  |
|--|--|
| <b>1. Diffuse Flow Plan</b>  |  |
| 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 not, explain why.<br>Comments:  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |
| <b>2. Stormwater Management Plan</b>   |  |
| 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: This activity is covered under the SMP submitted as part of the R-3601 NW 23 permit application. |  |
| 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<br><input type="checkbox"/> DWQ Stormwater Program<br><input checked="" type="checkbox"/> DWQ 401 Unit   |
| <b>3. Certified Local Government Stormwater Review</b>   |  |
| 3a. In which local government's jurisdiction is this project?  | not applicable   |
| 3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):  | <input type="checkbox"/> Phase II<br><input type="checkbox"/> NSW<br><input type="checkbox"/> USMP<br><input type="checkbox"/> Water Supply Watershed<br><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   |
| <b>4. DWQ Stormwater Program Review</b>  |  |
| 4a. Which of the following state-implemented stormwater management programs apply (check all that apply):  | <input checked="" type="checkbox"/> Coastal counties<br><input type="checkbox"/> HQW<br><input type="checkbox"/> ORW<br><input type="checkbox"/> Session Law 2006-246<br><input type="checkbox"/> Other: |
| 4b. Has the approved Stormwater Management Plan with proof of approval been attached?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |
| <b>5. DWQ 401 Unit Stormwater Review</b>   |  |
| 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   |

| <b>F. Supplementary Information</b>   |  |
|---|--|
| <b>1. Environmental Documentation (DWQ Requirement)</b>   |  |
| 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.)<br><br>Comments:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    |
| <b>2. Violations (DWQ Requirement)</b>  |  |
| 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):  |  |
| <b>3. Cumulative Impacts (DWQ Requirement)</b>  |  |
| 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<br><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.<br><br>This activity is both temporary and part of a larger project that was determined not to significantly impact future development in the vicinity (see R-3601 NW 23 permit application). |  |
| <b>4. Sewage Disposal (DWQ Requirement)</b>   |  |
| 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.<br><br>not applicable  |  |

|  |   |  |
|--|---|--|
| <b>5. Endangered Species and Designated Critical Habitat (Corps Requirement)</b>   |   |  |
| 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?<br>See R-3601 NW 23 permit application.   |   |  |
| <b>6. Essential Fish Habitat (Corps Requirement)</b>   |   |  |
| 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?<br>NMFS County Index   |   |  |
| <b>7. Historic or Prehistoric Cultural Resources (Corps Requirement)</b>   |   |  |
| 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 type="checkbox"/> Yes  | <input checked="" type="checkbox"/> No |
| 7b. What data sources did you use to determine whether your site would impact historic or archeological resources?<br>NEPA Documentation   |   |  |
| <b>8. Flood Zone Designation (Corps Requirement)</b>   |   |  |
| 8a. Will this project occur in a FEMA-designated 100-year floodplain?  | <input type="checkbox"/> Yes  | <input checked="" type="checkbox"/> 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   |   |  |
| Dr. Gregory J. Thorpe, Ph D<br>Applicant/Agent's Printed Name  | <br>Applicant/Agent's Signature<br>(Agent's signature is valid only if an authorization letter from the applicant is provided.) | 7.25.13<br>Date                        |

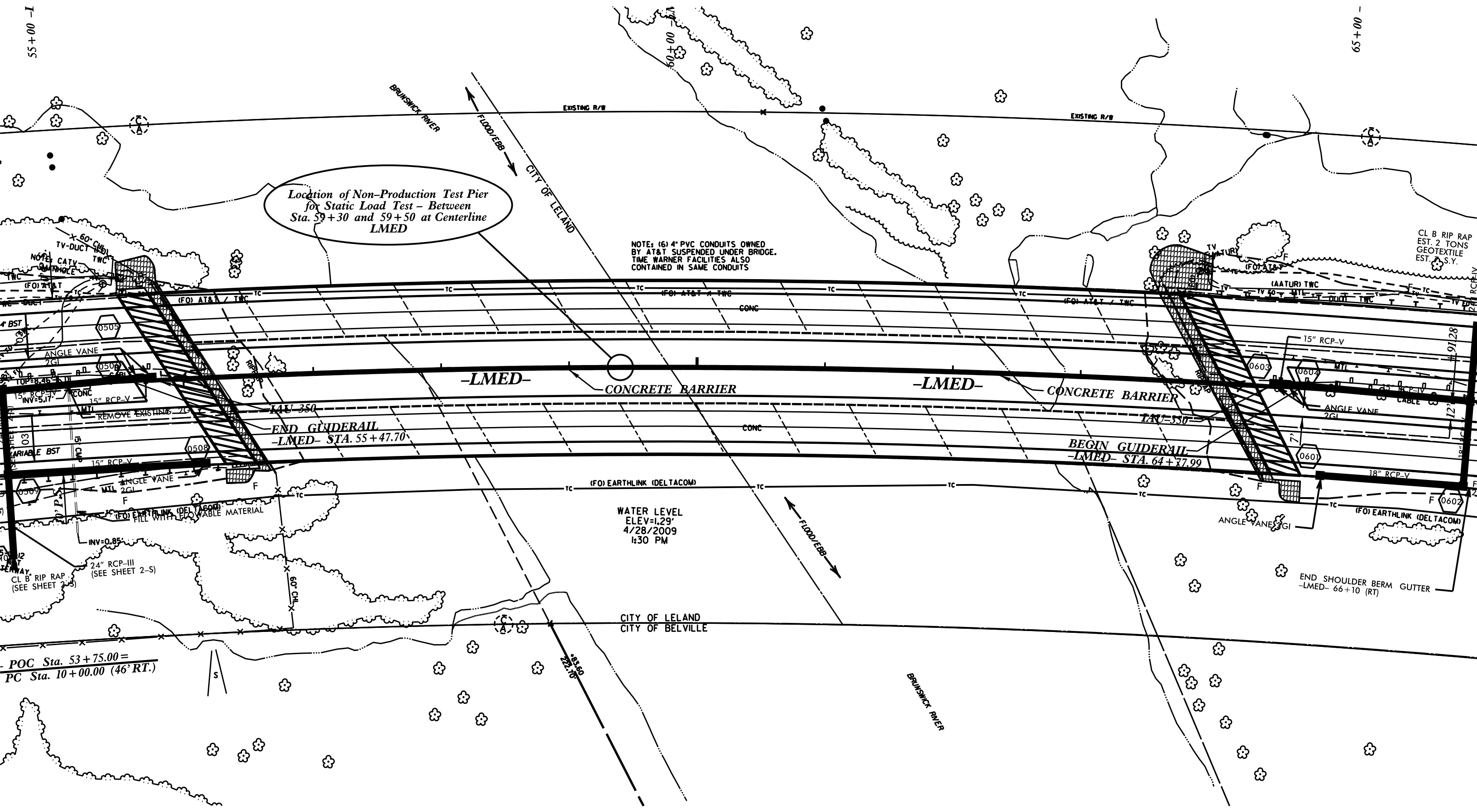
55+00 -1

65+00 -

Location of Non-Production Test Pier for Static Load Test - Between Sta. 59+30 and 59+50 at Centerline LMED

NOTE: (6) 4" PVC CONDUITS OWNED BY AT&T SUSPENDED UNDER BRIDGE. TIME WARNER FACILITIES ALSO CONTAINED IN SAME CONDUITS

CL B RIP RAP EST. 2 TONS GEOTEXTILE EST. 7 S.Y.



POC Sta. 53+75.00 = PC Sta. 10+00.00 (46' RT.)

WATER LEVEL ELEV=1.29' 4/28/2009 1:30 PM

CITY OF LELAND CITY OF BELVILLE

END SHOULDER BERM GUTTER -LMED- 66+10 (RT)

END GUIDERAIL -LMED- STA. 55+47.70

BEGIN GUIDERAIL -LMED- STA. 64+37.99

-LMED-

-LMED-

CONCRETE BARRIER

CONCRETE BARRIER

BRUNSWICK RIVER

FLOOD/EBB CITY OF LELAND

EXISTING R/W

EXISTING R/W

BRUNSWICK RIVER

FLOOD/EBB

(FO) EARTHLINK (DELTACOM)

(FO) EARTHLINK (DELTACOM)

(FO) EARTHLINK (DELTACOM)

(FO) AT&T / TWC

(FO) AT&T / TWC

(FO) AT&T / TWC

(FO) AT&T / TWC

(FO) AT&T / TWC

TV-DUCT

TV-DUCT

NOPEL CATV

NOPEL CATV

(FO) AT&T

(FO) AT&T

4" BST

4" BST

ANGLE VANE

ANGLE VANE

15" RCP-V

15" RCP-V

REMOVE EXISTING

REMOVE EXISTING

CONC

CONC

ANGLE VANE

ANGLE VANE

15" RCP-V

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