Project: B-2948

County: Cumberland

PROJECT SPECIAL PROVISIONS

Utility Construction

All proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's Standard Specifications for Roads and Structures dated January 1, 2012.

Revise the *2012 Standard Specifications* as follows:

Utility Owner's Contact Information:

Page 15-1, Subarticle 1500-2 Cooperation with the Utility Owner, add the following sentences:

The Contractor shall provide access for the owner's representatives during construction. A preconstruction meeting shall be held with Public Works Commission of Fayetteville-Water and Sewer, Aqua North Carolina Inc.- Water, the Utility Contractor and the D.O.T prior to any work beginning. The Contractor shall notify the owner two weeks before commencement of any work and three weeks before service interruption.

The 8" water line on this project belongs to Aqua North Carolina Inc. The contact person is Allen Daniels Regional Supervisor (910)-779-0794. Any work on these lines must be coordinated through the Engineer and the utility owner before beginning.

The 16" water and sewer lines on this project belong to Fayetteville PWC. The contact person for Fayetteville PWC is Mr. Joe Glass, PE and he can be reached by phone at (910)223-4740. Any work on these lines must be coordinated through the Engineer and the utility owner before beginning.

Page 15-5, Subarticle 1510-2 Materials, add the following sentences:

All water pipes shall be provided and installed in accordance with Articles 1036 and 1510 of the Standard Specifications. All water pipe on this project shall be ductile iron unless otherwise specified on the utility construction plans.

Ductile iron pipe fittings shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans and/or as directed by the Engineer.

Ductile iron bends and tees shall be in accordance with the applicable requirements of ANSI A21.10 (AWWA C110). All ductile iron pipe fittings shall have a minimum working pressure of 250 PSI.

Restrained Joint Ductile Iron Water Line shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans and/or as directed by the Engineer.

Restrained Joint Ductile Iron Water Pipe shall be the thickness class shown on the utility plans and shall conform to ANSI A21.51 (AWWA C151). All joints for such pipe shall be in accordance with ANSI A21.11 (AWWA C111). Pipe thickness shall be in accordance with ANSI A21.50 (AWWA C150) and based on laying conditions and internal pressures stated on the plans.

Cement mortar lining and seal coating for pipe shall be in accordance with ANSI A21.4 (AWWA C104). Bituminous outside coating shall be in accordance with ANSI A21.51 (AWWA C151).

Page 15-5, Subarticle 1510-3 Construction Methods, add the following sentences:

Testing of all water pipe shall be in accordance with Article 1510, with the exception of the amount of allowable leakage. Leakage is not allowed; pressure shall be maintained at 200PSI for the duration of the test. Fayetteville PWC shall be present for all testing of water main.

Page 15-7, Subarticle 1515-2 Materials, add the following sentences:

All sewer pipes shall be provided and installed in accordance with Articles 1034 and 1520 of the Standard Specifications. All sewer pipes on this project shall be ductile iron unless otherwise specified on the utility construction plans.

Restrained Joint Ductile Iron Sewer Pipe shall be the thickness class shown on the utility plans and shall conform to ANSI A21.51/AWWA C151. All joints for such pipe shall be in accordance with ANSI A21.11 (AWWA C111). The pipe and fittings shall have an asphaltic exterior coating as specified in AWWA C151. Interior of the pipe shall be coated with ceramic epoxy to produce a minimum dry film thickness of 40 mils.

Ductile iron sewer pipe shall meet the requirements of ANSI A21.51/AWWA C151. Joints shall be mechanical joint or rubber ring gasket slip joint, each conforming to ANSI A21.11/AWWA C-111. The pipe and fittings shall have an asphaltic exterior coating as specified in AWWA C151. Interior of the pipe joints shall be coated with ceramic epoxy to produce a minimum dry film thickness of 40 mils Calcium aluminate mortar lining of the ductile iron pipe shall also be acceptable.

COMPENSATION:

No direct payment will be made for construction work required by the preceding provisions which are general requirements applying to utility construction, and all of the requirements stated will be considered incidental work, paid for at the contract unit prices of the various utility items included in the contract.

1. STEEL PILE PIERS:

Steel pile piers shall be furnished and installed as shown on the plans, as described in the provisions herein and in the contract and/or as directed by the Engineer.

The steel piles shall be installed in accordance to the Standard Specifications for Roads and Structures, Section 450.

The HP 10x57 steel piles are designed for a factored resistance of 3 tons per pile.

Drive the HP 10x57 steel piles to a required driving resistance of 15 tons per pile.

The HP 10x57 and W 14x61 sections shall be galvanized in accordance to ASTM A123. All welds shall be grinded and coated with 2 coats of a cold applied galvanizing paint.

The pipe straps, bolts, nuts and washers shall be stainless steel ANSI Type 316.

Steel H-Pile Piers furnished and installed as required and accepted will be measured and paid for at the contract unit price per each for "Steel Pile Piers", such price and payments will be compensation in full for all materials, labor, equipment and incidentals necessary to complete the work.

PROJECT SPECIAL PROVISIONS
Utilities by Others

General:

The following utility companies have facilities that will be in conflict with the construction of this project.

A. Over Head Power (Lumbee River Electric Membership Corporation)
B. Gas (Piedmont Natural Gas)
C. Telephone (Century Link)
D. Communication (Public Works Commission)

The conflicting facilities of these concerns will be adjusted prior to the date of availability unless noted otherwise and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owners. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105.8 of the Standard Specifications.

Utilities Requiring Adjustment:

A. Lumbee River EMC (Power)
See "Utilities by Others Plans" for details
Contact person: Bernard Jones (910-843-7952)

B. Piedmont Natural Gas (Gas)
See "Utilities by Others Plans" for details
Contact person: Paul Johnson (910-321-2914)

C. Century Link (Telephone)
See "Utilities by Others Plans" for details
Contact person: Kevin Godwin (910-366-2142)

D. Public Works Commission PWC
Contact person: Chris Rainey (910-223-4370)
Communication line will temporary be placed on the right side of the project by means of an existing conduit. The total length of the project is approximately 600 feet.
Once piers are in place the line will be removed from existing conduit and placed under piers through 4" PVC pipe to be attached to bottom of pier with stainless steel bolts and washers. The pipe will be centered between the water and sewer pipe install on the pier.
2 weeks prior to completion of pier Contractor for the NCDOT is to contact PWC with a tentative date that the work on the pier is to be completed and the 4" Steel Communications pipe is installed.

Fayetteville PWC estimates that it will take approximately 14 working days to complete the relocation of the facilities.