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Project: U4909
County: Forsyth
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PROJECT SPECIAL PROVISIONS

Water Utility Construction for Winston/Forsyth Utilities

I. General Construction Requirements

Specifications

The proposed construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specification for Roads and Sewers" dated 2006, and the following provisions.

Lay water mains at least 10 feet laterally from existing or proposed sanitary sewers. The depth of the pipeline installation may vary to achieve minimum clearance from existing or proposed utilities or storm drainage while maintaining minimum specified cover (whether existing or proposed pipelines, conduits, cables, mains, and storm drainage are shown on the plans or not).

Owner and Owner's Requirements

The existing utilities belong to the Winston-Forsyth Utilities Commission. All materials for Water Lines and all Utility Controls used for utility construction shall meet the requirements of the City of Winston Salem, Department of Public Works, Engineering Division's "Technical Specifications and Detail Drawings for Water Line and Sanitary Sewer Line Construction" dated November 2008. This document may be downloaded for free at

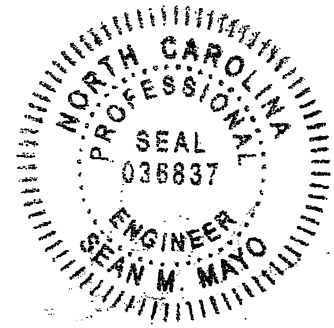
<http://ci.winston-salem.nc.us/Assets/CityOfWS//Documents/Engineering/Technical%20Specs%20and%20Drawings%20Nov%202008.pdf>

All measurement and payment shall be per NCDOT standards.

The Contractor shall provide access for the Owner's representative for the owner's representative for all phases of construction. The Contractor will notify the Owner two weeks before the commencement of any work, and one week before any service interruption.

Utility Locations Shown on the Plans

The location, size, and type material of the existing utilities shown on the plans are from best available information. The Contractor will be responsible for determining the exact location, size, and type of material of the existing facilities.



Provided By Owner:

The owner will provide the Contractor with new fire hydrants for installation where utility construction plans call for "fire hydrant" or "relocate fire hydrant". The Contractor shall notify the owner's representative prior to removal or relocation of existing fire hydrants and arrange for the owner to take possession of the existing hydrant and remove it from the project site. The Contractor will be responsible for painting all fire hydrants relocated or installed as part of this project. The owner will provide the paint necessary for painting the fire hydrants.

Relocate Fire Hydrant

Where utility construction plans call for "relocate fire hydrant" the Contractor shall either (1) physically move an existing hydrant, either vertically or horizontally, while maintaining the existing connection to an existing water line or (2) relocate an existing fire hydrant, abandon the existing fire hydrant connection to the water line and reconnect the fire hydrant to an existing water line in a new location as shown on the construction plans. When abandoning the existing fire hydrant connection to the water main, the Contractor shall remove the existing hydrant tee at the main and insert a solid cast iron sleeve with retainer glands to repair the main.

Concrete Thrust Restraint

Concrete thrust restraint shall be designed in accordance with the Ductile Iron Pipe Research Association (DIPRA) publication "Thrust Restraint Design for Ductile Iron Pipe, Sixth Edition, 2006".

Valves Greater Than 16-inches

Butterfly valves furnished shall be manufactured by American Flow Control, DeZurik, M&H, Mueller, Pratt, Clow, or Kennedy. All butterfly valves, including actuators, shall conform to the applicable requirements of ANSI/AWWA C504.

Highway 311 – 20-inch Water Main Relocation

An existing 8-inch DIP that is currently out of services will be disinfected and utilized as a bypass while construction of the relocation of the 20-inch water main is completed. Upon completion of the relocation and successful reinstatement of the 20-inch main, the 8-inch main will be abandoned. This work shall be considered incidental to work included in the installation of the line stops and bypasses at this location.

II. Compensation

No direct payment shall be made for utility construction work required by the preceding provisions which are general requirements applying to water line 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.

PROJECT SPECIAL PROVISIONS

Utility

UTILITIES BY OTHERS

General:

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

- A) Duke Energy – Power (Distribution)
- B) Century Link – Communications
- C) North State Communications – Communications
- D) AT&T (Bellsouth) – Telephone
- E) AT&T (Long Distance) - Telephone
- F) Time Warner – CATV
- G) Piedmont Natural Gas – Gas
- H) Forsyth County Board of Education

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted 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 owner. 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) Duke Energy - Power (Distribution)
 - 1) See Utilities by Others Plans.
 - 2) Duke Energy will complete all its relocations and remove the conflicting poles by June 30, 2012. AT&T (Bellsouth) and Time Warner will attach to Duke Energy's new poles.
 - 3) The contact person for Duke Energy is Ms. Paula Butner and she can be reached by phone at 336-817-4585.
- B) Century Link – Communications
 - 1) See Utilities by Others Plans.
 - 2) Century Link has existing underground and aerial facilities beginning at Glen High Road and continuing to the end of the project. After the new cables are in place and activated the existing buried cables will be abandoned and the aerial cables and poles removed. All work will be completed by June 30, 2012.

- 3) Century Link will install new cable by directional bore under the ramps and I-40. The existing aerial cable on Duke's poles will be removed once the new cable has been cut over. All work will be completed by June 30, 2012.
 - 4) The contact person for Century Link is Mr. Brian McNiff and he can be reached by phone at 336-996-5999
- C) North State Communications – Communications
- 1) See Utilities by Others Plans.
 - 2) North State Communications has existing buried cable and conduit beginning on Sheet 4 and continuing to Sheet 6 and on Sheet 21. All buried cable and conduit will remain in place and be lowered where necessary prior to and during construction of the project. At the US 311 interchange North State Communications has buried conduit crossing US 311 and two manholes that will require lowering/adjustment during construction. This work will be performed when authorized by the Resident Engineer.
 - 3) The contact person for North State Communications is Mr. Anthony Tussey and he can be reached by phone at 336-886-3740.
- D) AT&T (Bellsouth) – Telephone
- 1) See Utilities by Others Plans.
 - 2) AT&T (Bellsouth) has existing buried and aerial cable beginning on Sheet 4 and continuing to Sheet 12. All adjustments will be completed by June 30, 2012.
 - 3) The contact person for AT&T (Bellsouth) is Mr. Butch Bunton and he can be reached by phone at 336-317-8142.
- E) AT&T (Long Distance) – Telephone
- 4) See Utilities by Others Plans.
 - 5) AT&T (Long Distance) has existing buried cable along Old High Point Road crossing Union Cross Road on Sheets 5, 6, and Sheet 21. The cable will be lowered in place as necessary during construction.
 - 6) The contact person for AT&T (Long Distance) is Mr. Homer Rorano and he can be reached by phone at 910-638-1798.
- F) Time Warner – CATV
- 1) See Utilities by Others Plans.
 - 2) Time Warner has cable attached to Duke Energy's poles beginning on Sheet 4 and continuing to the end of the project. Time Warner will attach new fiber cable to Duke Energy's relocated poles throughout the project and will be completed by June 30, 2012.
 - 3) The contact person for Time Warner is Mr. Mike Westgard and he can be reached by phone at 336-217-3458.

G) Piedmont Natural Gas – Gas

- 1) See Utilities by Others Plans.
- 2) Piedmont Natural Gas will lower its gas line where conflicts exist with proposed drainage prior to and during construction. Beginning on Sheet 12 and continuing to Sheet 15, Piedmont Natural Gas has a 6" steel gas main (HP) that will require adjustment just south of the I-40 interchange (Station 152+00 to 157+00). All work will be completed by June 30, 2012.
- 3) The contact person for Piedmont Natural Gas is Mr. David Jackson and he can be reached by phone at 336-726-7762.

H) Forsyth County Board of Education

- 1) The Forsyth County Board of Education has a force main sewer line along the project which has been abandoned and flushed. The Contractor is advised that this line is inactive and is not in service. The contact person for the Forsyth County Board of Education is Mr. Brent Teague and he can be reached by phone at 336-661-4972.

NOTE: All other utilities will remain in place and will be adjusted as necessary.