

PROJECT SPECIAL PROVISIONS
Utility Construction



Revise the 2018 Standard Specifications as follows:

Page 15-1, Sub-article 1500-2 cooperation with the utility owner, Paragraph 2: add the following paragraphs:

Existing water facilities are owned by the Town of Fuquay-Varina. The contact person is Mr. Michael Wagner, mwagner@fuquay-varina.org , 919-567-3911.

Utility Materials and Construction:

Where brand names and model numbers are specified in these Special Provisions or in the plans, the cited examples are used only to denote the quality standard of product desired and do not restrict bidders to a specific brand, make, or manufacturer. They are provided to set forth the general style, type, character, and quality of the product desired. Equivalent products will be acceptable.

In addition to Division 15, Sections 1034, 1036, and all other applicable sections of NCDOT Specifications, all water utility materials and construction shall conform to Town of Fuquay-Varina requirements for products, details, and specifications as shown at the link below:

<https://www.fuquay-varina.org/710/Adopted-Town-Standard-Specs>

In the event of a conflict between NCDOT Specifications and Town of Fuquay-Varina specifications, the Contractor shall notify the Engineer immediately. The Engineer will provide a resolution to conflicts within ten days of notification of the conflict.

For Town of Fuquay-Varina water line standard detail drawings, see link below:

<https://www.fuquay-varina.org/710/Town-Standard-Specs-Construction-Details>

The provisions contained within these Utilities Construction Project Special Provisions modify the *Standard Specifications* only for materials used and work performed constructing water or sewer facilities owned by Town of Fuquay-Varina.

RELATION OF WATER MAINS TO NON-POTABLE WATER LINES AND OTHER UTILITIES
(5-16-23)

Revise the 2018 *Standard Specifications* as follows:

Page 15-1, Article 1500-5 RELATION OF WATER MAINS TO SEWERS, lines 34-38, replace the article title and first paragraph with the following:

1500-5 RELATION OF WATER MAINS TO NON-POTABLE WATER LINES AND OTHER UTILITIES

For sanitary sewers, lay water mains at least 10 feet laterally from existing or proposed sanitary sewers. If local conditions or barriers prevent a 10 foot separation, lay the water main with at least 18 inches vertical separation above the top of the sanitary sewer pipe either in a separate trench or in the same trench on a bench of undisturbed earth.

Page 15-2, Article 1500-5 RELATION OF WATER MAINS TO SEWERS, line 1-9, replace the second and third paragraph with the following:

For storm drain pipe, reclaimed water distribution or other utilities, lay the water main with at least 12 inches separation from the outside of the water main and the outside of the other facility.

One full length of water pipe at the point of crossing shall be located so that both joints will be as far from the sanitary sewer as possible. If practicable, the water main shall be located above the sewer.

SUBMITTALS AND RECORDS
(5-16-23)

Revise the 2018 *Standard Specifications* as follows:

Page 15-2, Article 1500-7 SUBMITTALS AND RECORDS, lines 22-23, replace the third sentence of the first paragraph with the following:

Provide a marked up electronic (.pdf) as-built copy to the Engineer and utility owner. Provide AutoCAD drawing of as-built plans to the Engineer and utility owner. The utility owner will use as-built plans to update the Town’s GIS system.

Page 15-2, Article 1500-7 SUBMITTALS AND RECORDS, lines 28-30, replace the second and third sentence of the third paragraph with the following:

The plans shall include notations of the size and type material installed, coordinates of utility controls and horizontal and vertical locations of the piping sealed by a North Carolina Professional Land Surveyor (PLS). As-built plans provided as PDF formatted files shall be generated from the source electronic files, not scanned facsimiles of paper plan sheets. Provide as-builts as PDF files to the Engineer. Provide marked up PDFs showing as built condition. Provide AutoCAD as-built drawings for utility owner’s use to update their GIS system.

12” INSERTION VALVE

Description:

This item includes furnishing all materials, equipment, labor and incidentals necessary to install insert type valve in existing water line.

Materials & Methods:

Insert valve shall be insertable gate valve shall be designed to be installed onto a working, pressurized water line. Insert valve shall be manufactured with the following materials:

- A. Ductile Iron Operating Nut per AWWA C509-09.
- B. 316 Stainless steel bonnet nuts and bolts.
- C. Epoxy coated carbon steel valve bonnet.
- D. BUNA-N bonnet o-ring.
- E. 304 SS Valve body branch and stem.
- F. EPDM gate seals.
- G. BUNA-M/EPDM valve body gasket.
- H. Cast Nylon, Type 6 gate.

Insert valve shall be factory tested to 1.5 times system working pressure at a minimum with maximum test pressure 375 psi.

Insert valve shall allow for bi-directional flow and weigh approximately 865lbs.

Measurement and Payment:

The quantity of Insert Valves to be paid for will be the actual number of insert valves installed by size. The quantity of Insert Valves, measured as provided above, such payment will be full compensation for all Work covered by this Project Special Provision.

Pay Item:
12” Insertion Valve

Pay Unit
Each