

LANCASTER COUNTY WATER & SEWER DISTRICT

WATER MAIN CONSTRUCTION

SPECIAL PROVISIONS

1. EXISTING SITE CONDITIONS: The Contractor shall satisfy himself as to the existing site conditions. The Contractor shall be responsible for maintaining a workable site condition during the execution of this contract.
2. PIPE COVER: All pipes must have a minimum cover of 30 inches.
3. PIPE MATERIALS: All pipe shall be C 900 PVC, SDR 26, or ductile iron thickness Class 50 as shown on the plans and in the Schedule of Bid Items. All materials/products that contact potable water must be third party certified as meeting the specifications of ANSI/NSF Standard 61.
4. LEAD FREE PIPE, SOLDER, OR FLUX: All pipe material, solder, and flux shall be lead free (less than 0.2 percent in solder and flux and less than 8.0 percent in pipes and fittings).
5. DETECTION COATED WIRE FOR NON-METALLIC PIPING: All non-metallic pipe shall be provided with coated 12 gauge detection wire, installed specifically for location of buried utility lines. Detection wire shall be District approved and installed for detection by a metal detector when buried up to three feet deep. All coated wire shall be installed by duct taping the wire to the top of pipe at intervals not exceeding 10 feet in length. All coated wire shall be extended into and to the top of all valve boxes, air release valves, etc. so that the District locator can attach to the coated wire and trace the pipeline under the ground.
6. PIPE JOINTS: All pipe joints shall be slip joint gasket type. No solvent weld will be permitted on any size pipe. Lubricants which will support microbiological growth shall not be used for slip-on joints. Vegetable shortening shall not be used to lubricate joints. Natural rubber or other material which will support microbiological growth may not be used for any gaskets, O-rings, and other products used for jointing pipes, setting meters or valves, or other appurtenances which will expose the material to the water.
7. DUCTILE IRON FITTINGS: Fittings for any project shall be mechanical joint conforming to ANSI A21.10 (AWWA C110) and ANSI A21.11 (AWWA C-111), latest revision. No push-on fittings will be allowed. Fitting shall be restrained with Mechanical Thrust Restraints as listed herein.
8. HYDRANTS AND VALVES: Any adjustment of all fire hydrants, fire hydrant fittings and valves shown within Project limits shall be made by the Contractor in the field subject to the desire of the District Inspector.
9. PIPE SEPARATION: The following minimum pipe separations will be maintained: 12 inches vertical separation between crossing of sanitary sewer and storm sewers, 18 inches vertical

separation between crossing of sanitary sewer (including force main) and water main, and 10 feet horizontal separation between sanitary sewer (including force main) and water mains. If these separations cannot be maintained, ductile iron pipe will be used minimum 9 feet either side of crossing and along entire length of line less than 10 horizontal feet or 18" vertical separation from water mains.

10. SEEDING: All areas disturbed during construction shall be seeded in accordance with Section 8 of the specifications. Any and all areas disturbed outside of the designated limits shall be seeded.

11. SEDIMENTATION AND EROSION CONTROL: The Contractor is instructed to control sedimentation runoff by methods approved by the Engineers during the course of construction of the Project. The Contractor is reminded that all work shall meet all applicable requirements of the rules and regulations of South Carolina Office of Coastal Resource Management.

12. AS-BUILT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE: The Contractor shall maintain, in readable condition at the job site, one complete set of working drawings and specifications for his work, including all shop drawings. Such drawings and specifications shall be available for use by the District or its representative at all times. This set shall be marked, or notes acceptable to the Engineer provided, in order to reflect as-built conditions; changes indicating such conditions shall be kept current at all times. Upon completion of the project, this complete set of drawings and specifications or notes, showing as-built conditions, shall be returned to the District Inspector so that District personnel can make copies of the plans before it is sent to the Engineer.

The District shall have all valves, hydrants, water meters, air release valves, or any other item taken as a point with a GIS back pack unit at the following cost to the Developer:

<u>Number of Points</u>	<u>Cost Per Point</u>
1-25	\$1.00
26-100	\$0.75
101 and above	\$0.50

The District shall have the points corrected and downloaded into the District's existing GIS system and made a part of the system. There shall also be two (2) sets of approved as-built drawings for the project in the form of a paper copy also and given to the District.

13. METERS AND MXU'S: All water meters shall be installed by District personnel only, at the expense of others. All fees must be paid to the District in full, all as-built drawings received, and/or any other item unresolved according to the District before any meters will be installed.