

SECTION 33 11 13.1

WATER MAIN CONSTRUCTION

(Sentences and/or paragraphs that are double underlined indicate revisions that were made from the 2012 specification.)

PART 1 – GENERAL**1.1 DESCRIPTION**

- A. This item shall govern the construction of water mains including trenching, backfilling, pipe-laying, coupling, testing, the setting of fittings, valves and valve boxes, fire hydrants, appurtenances and wet connections. All work is to be done in accordance with the plans and specifications and paid for in accordance with the schedule of prices submitted in the Proposal.

1.2 RELATED ITEMS

See:

SECTION 31 78 00 - PIPE BORING, JACKING, TUNNELING, & ENCASEMENT

SECTION 03 30 01 - CONCRETE BLOCKING OR ANCHORAGE

SECTION 31 23 33 - EXCAVATING, TRENCHING, & BACKFILL

SECTION 33 05 01 - PVC PIPE & FITTINGS

SECTION 33 05 02 - DUCTILE IRON PIPE

SECTION 33 12 16 - VALVES

SECTION 33 12 19 - FIRE HYDRANTS

SECTION 33 12 13 - WATER SERVICES

1.3 MEASUREMENT AND PAYMENT

- A. PIPE: Payments will be made at the price bid per foot for furnishing and installing pipe, which bid price will include all costs for the complete pipe installation including trenching, and backfill, embedment, compaction or tamping, sterilization, testing, final cleanup, and all other work not otherwise provided for in bid proposal. Pipe will be measured (by horizontal distance) from center of fitting to center of fitting, or end of pipe without deduction for the length of intermediate fittings or valves.
- B. FITTINGS: Payment will be made at the unit price bid per each for furnishing and installing fittings and joint accessories. Fittings will be measured per each.
- C. THRUST BLOCKING: Thrust blocking shall not be a measured item.
- D. SERVICES: Services shall be measured per each. Payment for each service will include the furnishing and installing pipe, which bid price will include all costs for the complete pipe installation, including line fittings, trenching, and backfill, embedment, compaction or tamping, sterilization, testing, final cleanup, and all other work not otherwise provided for in bid proposal. See Detail or SECTION 33 12 13 – WATER SERVICES for supplementary information.

1.3 SUBMITTALS

All submittal requirements are listed with the material specifications.

PART 2 – PRODUCTS

2.1 TESTING REQUIREMENTS

See: SECTION 33 13 10 - HYDROSTATIC TESTING (Used for Waterlines & Sanitary Sewer Force Mains)
SECTION 33 13 00 - DISINFECTION OF WATERLINES

PART 3 – EXECUTION

3.1 GENERAL

Construction methods for each material are specified in the material specifications.

- A. MINIMUM COVER: The minimum cover for water pipe shall be four feet (4') as measured from the outside top of the pipe vertically to finished ground or pavement surface elevation. The maximum cover shall be 5 feet (5').

END OF SECTION