

SECTION 02082

WATER METER

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Materials and procedures for installing water meters as indicated on the plans.

1.2 RELATED SECTIONS

- A. Section 02061: Select Aggregate

1.3 REFERENCES

- A. ASTM D 1784: Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
- B. American Water Works Association's specifications.

PART 2 PRODUCTS

2.1 WATER METERS AND ACCESSORIES

- A. Meet the American Water Works Association's specifications.
- B. Meter Yoke: 21 inches high (minimum) copper setter as manufactured by Ford or equal.
- C. Meter Box:
 - 1. Rigid PVC pipe meeting ASTM D 1784.
 - 2. 18 inches in diameter by 3 feet long.
 - 3. Free standing crush factor of 3000 pounds.
- D. Meter Box Cover:
 - 1. 12 inch minimum diameter lid with lock.
 - 2. 20 inch minimum diameter ring constructed of cast iron.

- E. Pipe and Fittings:
 - 1. Type K copper for sizes 2 inches and smaller.
 - 2. Ductile iron class 51 for sizes larger than 2 inches.
- F. Aggregate: meet specifications for Free Draining Granular Backfill Borrow. Refer to Section 02061.
- G. Corporation Stop and Service Saddle Clamp: Supplied by the water system authority unless otherwise noted on plans.
- H. Joint Seal Tape (Teflon).

PART 3 EXECUTION

3.1 PREPARATION

- A. Obtain all permits associated with the connection and installation.
- B. Coordinate with the water system authority the installation of items not performed by own forces.
- C. Before trenching:
 - 1. Stake water meter.
 - 2. Have utility companies locate and mark their lines.
- D. Coordinate all water main shutdowns with the water system authority and notify the Engineer 72 hours before the shutdown.

3.2 INSTALLING CONTRACTOR FURNISHED WATER METERS

- A. Water system authority products and installation specifications supercede those listed below.
- B. Excavate a trench from the main supply line to the water meter location at the depth determined by local authorities.
- C. Install water meter according to manufacturer's specifications.
 - 1. Place a 6 inches deep free draining granular backfill borrow sump in the bottom of the meter box.
- D. Bed all pipe 2 inches minimum surrounding the pipe with sand.

- E. After bedding material is placed, backfill and compact the trenches to the same density as the ground adjacent to the trench.

3.3 INSTALLING FURNISHED WATER METERS AND RELOCATED WATER METERS

- A. Unless otherwise noted, replace all existing water service lines with new pipe from the main supply line to the water meter.
- B. Coordinate the relocation of existing water meters with the water system authority.
- C. For relocated water meters, use existing water meter, yoke, box, and cover. Furnish pipe and fittings as necessary.
- D. Complete all work that is not completed by the water system authority.

END OF SECTION