

## ITEM 72

### ADJUSTING WATER SERVICE LINES AND MOVING EXISTING WATER METERS AND BOXES

#### 72.01 SCOPE

(a) Wherever existing water meters interfere with the street widening and resurfacing, the water meters shall be moved to a new location as shown on the drawings or as directed by the Engineer.

(b) Wherever existing water service lines interfere with the street widening and resurfacing, the water service lines shall be adjusted and/or extended as shown on the drawings or as directed by the Engineer.

(c) The resetting of the water meters and the adjustment and/or extension of water service lines shall be done in a manner shown on the drawings and shall be in accordance with the requirements of the City of Chattanooga and the Tennessee-American Water Company, Chattanooga, Tennessee, and shall include all materials and work to provide a complete installation.

(d) At the Owner's discretion, Tennessee-American Water Company may be directed to reset water meters and water service lines if the Contractor is not deemed qualified to perform said work.

#### 72.02 MATERIALS

(a) Existing meters, meter boxes, fittings and accessories will be reused wherever possible. Any new meter boxes required shall be 14" x 14" cast iron as approved by the water company.

(b) Copper tubing shall exceed the requirements of latest ASTM Standard Specifications, Serial Designation B88, Government Type K annealed.

(c) Broken meter boxes shall be replaced and shall meet the approval of the Engineer and water company.

#### 72.03 JOINTS

Fittings for copper tubing shall be flared and meet the requirements of ANSI standards for Wrought Copper and Bronze Solder Joint Pressure Fittings, B16.22, latest revision.

## 72.04 EQUIPMENT

All equipment necessary and required for moving of existing water meters and adjusting and/or extending water service lines must be on the project, proved to be in first-class working order, and approved by the Engineer before construction will be permitted to begin.

## 72.05 INSTALLATION

(a) Installation of water meters shall include carefully disconnecting the meter from its existing pipe connection, resetting the meter box in the new location, and reconnecting the meter to existing piping.

(b) Where existing water meters are in the area of the proposed construction, they shall be moved to the new right-of-way line or where directed by the Engineer. Water meters are not to be installed in the sidewalk.

(c) Meter boxes shall be installed in neat and workmanlike manner. The elevation of the boxes shall be carefully adjusted so that the lid is flush with the ground surface. Soil around the meter box shall be tamped or settled in-place to eliminate settlement.

(d) Every effort will be made to keep dirt and contamination from entering the pipe system.

(e) Cost bid for adjustment and/or extension of water service lines shall include the cost of all pipe, fittings, and other appurtenances necessary to complete the work.

(f) The service line shall be installed from the water main corporation stop to the meter yoke, and it shall be placed at a sufficient depth that the work of preparing the subgrade of the street will not interfere with it.

(g) Water service lines shall be placed at the same depth as the existing service lines or a minimum of 18 inches below the top of the finished roadway, whichever is deeper.

(h) All work and materials shall be acceptable to the Tennessee-American Water Company. Work and materials not acceptable shall be redone at no additional cost to the Owner until it is acceptable.

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