

SECTION 027606
WASTEWATER SERVICE LINES

1. SCOPE:

This specification governs all work and materials necessary to construct the wastewater service lines required to complete the project. Wastewater service lines are those lines, constructed in public right-of-way, from the service tee on the main up to and including the cleanout at the property line.

2. MATERIALS:

Pipe and fittings for wastewater service lines shall be PVC in accordance with ASTM D2665 and ASTM D3311 with a minimum size of 4 inches. Solvent cement for PVC shall comply with ASTM D2564. No co-mingling of different materials except through the use of proper adaptors. Adaptors shall have a stainless steel or fiberglass shear ring.

3. CONSTRUCTION METHODS:

Where possible, service tees or wyes shall be placed along the main as required for services (no taps).

The minimum size pipe for services shall be 4-inch diameter for residential and 6-inch diameter for commercial. Minimum slope for 4-inch pipes shall be 1/8 inch per foot ($S=1\%$), and minimum slope for 6-inch pipes shall be 1/16 inch per foot ($S=0.5\%$). Wastewater service lines shall cross under water mains.

The Contractor shall be responsible for establishing alignment and maintaining grade for the proposed service.

Trenches shall be excavated in such a manner that will minimize damage to surface improvements. After installation, the excavated material shall be tamped into the trench to not less than the density specified in City Standard Specification Section 022020 "Excavation and Backfill for Utilities," and the surface restored to a condition acceptable to the Engineer. Wastewater service lines shall be bored, jetted or jacked under sidewalks, driveways, and other such improved surfaces, unless otherwise authorized by the Engineer.

Service lines shall be leakage tested with the wastewater main.

Contractor shall follow operational requirements for bypass pumping as set forth in Specification Section 027200 Control of Wastewater Flows

4. MEASUREMENT AND PAYMENT:

Unless otherwise specified on the Bid Form, wastewater service lines shall be measured as individual units for each connection made to the main. Payment shall include, but not be limited to, the line from the tee on the main to, and including, the cleanout at the property line. Payment shall be full compensation for all labor, materials, equipment, trench safety, bypass pumping and incidentals necessary for wastewater service lines required to complete the project.