

SECTION 026406
Private Water Service Lines (S-112)

1. Scope:

This section governs the furnishing of all labor, equipment, tools and materials necessary for the construction of private water service lines as shown on the plans, as outlined herein and as necessary to complete the project. Private water service lines are defined as those lines from the customer side of the water meter to the structure.

2. Materials:

Materials for the construction of private water service lines shall comply with the provisions of the Standard Plumbing Code as published by the Southern Building Code Congress and as adopted, with local amendments, by the City of Corpus Christi, unless otherwise noted herein or on the plans.

3. Permits:

Normal plumbing permit application and fee requirements of the Standard Plumbing Code as adopted by City Code shall apply for this project. A plumbing permit for each lot will be issued to the Contractor by the Building Inspections Department of the City of Corpus Christi. The Contractor shall make application for permits upon award of the contract.

4. General Obligations:

- (a) Contractor: The Contractor shall construct private water line services in accordance with the plans and these specifications in a neat and workmanlike manner. The route of the proposed water service shall be determined by the Contractor subject to approval of the Owner and the Engineer. All work on private service lines shall be supervised and inspected by a licensed plumber. Good relationships with the public are essential to the success of this project. The Contractor shall make all the required notifications and notices to the owner/occupants in the area. The work shall be accomplished with minimal inconvenience to the public and owner/occupants. The Contractor shall cooperate with all City employees involved in the execution of this contract. The removal of the existing meter from the old location and placement in the new location shall be done by the Contractor under City supervision. Contractor will be held responsible for restoring the water service level better than or equal to before. Compensation will be addressed on an as needed basis upon approval by the Engineer.
- (b) City: The Engineer will review work proposed by the Contractor and the City Plumbing Inspector shall inspect the installation.

5. Sequence of Work and Construction Methods:

- (a) City will mail out general letter to property owner describing the project with Form WS-1 (See Appendix) for execution.
- (b) Contractor shall acquire authorization for site inspections, using Form WS-1 in Appendix from those owners not responding to general letter.
- (c) Contractor shall perform site inspection, fill-out required forms

and submit copy of APrivate Water Service Inspection Report & Routing Recommendation≅ and Site Plan Showing Route to Engineer.(see From W-2 and Sample Site Plan in Appendix). Contractor is encouraged to take photographs of before and after conditions on each lot.

- (d) Typically, the proposed service line will be connected at the existing riser serving the main structure, usually at the rear. In special cases, where existing surface improvements preclude trench excavation, the connection of the proposed line to the existing line may be allowed at an alternate location. Any alternate tie in locations must be authorized by the Engineer; and there must be evidence that equivalent water pressure of the standard connection will result using the information gathered during the site inspection.
- (e) Contractor notifies owner/occupant of proposed construction and acquires approval for proposed construction with City assistance using Form W-2.
- (f) Construct private service lines from structure to proposed meters.
 - (1) Materials shall be installed in accordance with manufacturer's requirements and as set forth in the plumbing code.
 - (2) The Contractor shall be responsible for laying the line along the pre-approved Site Plan Route. All lines shall be a minimum depth of 18 inches except at the riser and near water meter. Portions of the lines that are exposed shall be protected from frost action.
 - (3) Separate trenches (one for water and one for sewer) separated by undisturbed or compacted earth shall be excavated. The trenches shall be excavated in such a manner which will minimize damage to surface vegetation. After installation of the line, the excavated material shall be tamped into the trench and the surface restored to a condition acceptable to the Engineer. Lines shall be bored, jetted or jacked under sidewalks, driveways or other such improved surfaces--unless authorized by the Engineer.
 - (4) When authorized, the proposed line may be hung under pier and beam structures. In such cases, new line shall be insulated and supported with hangar straps at intervals not to exceed four (4) feet spacing.
 - (5) Where required by the building code, electrical ground wires shall be installed to assure any appliances grounded to the plumbing system remain grounded.
 - (6) Boring and casing shall be required adjacent to foundations (Foundation Protection Exhibit in Appendix).
- (g) Clean, flush, and pressure test new service lines. Make final connection to riser. The service line shall remain under pressure to the angle water check valve.
- (h) Construct the water service lines to the angle meter stop for meter setting. Clean, flush, and put into service.

- (1) The proposed meter location shall be placed as follows:
 - (a) for separated curb and sidewalk; 1.5 feet from curb edge of sidewalk;
 - (b) for sidewalk tied to curb; 1.5 feet behind sidewalk;
 - (c) where no sidewalk exists; 4.5 feet behind the curb;
 - (2) The City shall furnish the Contractor a water meter housing so that a proper alignment of the angle meter stop and meter coupling is assured.
- (i) Set meter box. Existing meter boxes shall be re-used on this project. Any meter boxes which are cracked, broken, or have missing lids shall be replaced with new meter boxes provided by Water Department as deemed necessary by the City Water Inspector.
 - (j) The Contractor shall remove the old meter and set the same meter at the new location. Concurrently, the Contractor shall plug the existing service line and backfill the old meter box pit with clean excavated material.

6. Interruptions of Water Service:

The Contractor shall advise the building occupants a minimum of twenty-four (24) hours in advance of the interruption of water service. After the water service has been interrupted, the Contractor shall expeditiously continue work until service has been restored. In no case shall water service be interrupted for more than four (4) hours.

7. Measurement and Payment:

Private water service lines shall be measured per each service for the appropriate size of meter setting installed. Payment shall be full compensation for furnishing and installing all lines, valves, fittings, hangar straps, meter boxes and incidentals, trenching, trench safety, boring, jetting or jacking, flushing, testing, service restoration and all other work or materials required to provide water service lines from the meter location to the existing riser.