ITEM NO. 854
SANITARY SEWER LATERALS

854.1 DESCRIPTION: This item shall govern sanitary sewer laterals installed in accordance with these specifications and as directed by the Engineer. This item shall also consist of the installation of a two-way sewer cleanout at the property line.

854.2 SUBMITTALS: Contractor shall submit manufacturer’s product data, instructions, recommendations, shop drawings, and certifications.

854.3 MATERIALS: The materials for sanitary sewer laterals shall conform to the specification contained in Item No. 848, "Sanitary Sewers."

854.4 CONSTRUCTION:

1. Sanitary sewer laterals fittings and appurtenances shall conform to the material specifications and shall be installed by the Contractor as specified herein, or as directed by the Inspector or the Engineer and in accordance with the DD-854 Standard Drawing Series. When the lateral is within the Edwards Underground Recharge Zone, it shall be installed in accordance with Standard Drawing DD-854-ERZD.

2. Designation of Lateral: A sewer pipe located between the sanitary sewer main and the customer’s premise, is designated as a "sanitary sewer lateral."

3. Lateral Installation: All lateral installations shall be performed in accordance with Item Nos. 848; "Sanitary Sewers" 804, "Excavation, Trenching and Backfill," and as described herein. For sanitary sewer mains that are 12 inch in diameter or smaller, all laterals shall be connected using the appropriate size tee/wye placed in line with the main line. For mains larger than 12 inch, insert-a-tee conforming to ASTM 3034-08, or approved or equal, shall be used. Where waterline crossings with sanitary sewer laterals are less than the regulated separation distances, all lateral piping shall be SDR-26 PVC pipe (ASTM D2241-09), with a pressure rating of 150 psi.

Connection to the customer’s end of the lateral shall be performed using a flexible coupling, or pre-approved equal. All flexible couplings shall be concrete-encased to prevent movement or breakage of the steel bands. All
cleanouts at job sites shall have installed an approved heavy duty sanitary sewer cap.

Cutting, excavation, and backfill shall be as specified herein and in accordance with applicable sections of Item No. 804, "Excavation, Trenching, Backfill."

854.5 **MEASUREMENT:** Sanitary sewer laterals shall be measured by the linear feet installed at the various diameter sizes. The measured dimension shall be taken from the centerline of the main to the connection at – or just inside – the customer's property line. Measurement will be continuous through any fittings in the main.

854.6 **PAYMENT:** Sanitary sewer laterals shall be paid for at the contract bid price per linear foot complete in place for the type, and size constructed. Price shall be full compensation for furnishing all materials, including pipe, pipe fittings (to include wyes, tees, bends), pumping, bedding, trenching or boring, trench protection, backfilling, tamping, cutting pavement and surface structures of whatever type encountered and replacement with whatever type specified and other incidentals required to complete the work.

When the minimum separation distances for any water and sewer piping facilities cannot be maintained per 30 TAC §217.53, contractor shall install SDR-26 PVC pipe (150 psi pressure rated). Payment for this higher pressure rated pipe shall be made at the contract bid price per linear foot complete in place for the type and size constructed.

Payment for the installation of the two-way cleanout shall be paid per each under the applicable line item. Only one-way cleanouts are required on the termination point of a dead-end main.

- End of Specification -
Depth and grade of service laterals as shown, are typical only. Actual depth, alignment and grade of service laterals shall be determined by the Engineer based on the elevations of the sewer main, street, natural ground and building to be serviced.

Placement of lateral marker 5' beyond curb or water main is required over the Edwards Aquifer Recharge Zone (E.A.R.Z.)

Two #4 rebar tied together and embedded vertically in the concrete cap

Curb

Street

18" Property Line

12" Max

2% Min. slope

Concrete Cap

House lateral (6" Dia. Min.)

Precast Tee with Bend may be used in lieu of Wye

Bends (as required) (Lateral penetration to sewer main shall be flush with interior pipe wall surface and be angled at either "2 o'clock" or "10 o'clock").

Sewer main

HOUSE LATERAL DETAIL

Note:
A minimum of 3' of cover to subgrade is necessary, otherwise concrete encasement will be required.
Note: Depending upon the type of service that an 8 inch lateral (on a dead end main) is providing, a standard manhole in lieu of a cleanout may be required. Consult with the SAWS Inspector.
LATERAL CONNECTION TO EXISTING SEWER MAIN

ACCEPTABLE

Note:
The saddle shall be permanently bonded to the existing main by the use of compounds or clamps as recommended by the manufacturer.