

## 900 SEWERAGE WORK

### ITEM 918 - SANITARY HOUSE CONNECTION SERVICE

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**918.01 Description.** This work shall consist of the construction of the sanitary house connection service from the wye fitting on the main line lateral sanitary sewer to the building drain adapter complete in place. This work shall include: excavation for the pipe and the bedding for same, including clearing and grubbing, fill or embankment, and the removal of all materials necessary for placing the pipe - except removals listed separately: furnishing and placing the bedding, concrete backing or encasement, and granular or concrete backfill as required; constructing and subsequently removing all necessary cofferdams, cribs and sheeting; removal of water; all pipe joints; furnishing and installing all necessary pipe of the types specified or shown on the plans; joining to existing and proposed sewers and plumbing appurtenances as required; furnishing and placing of Y-Poles; restoration of disturbed facilities and surfaces; maintenance of traffic; drainage and existing structures; service connections abandoned; all as shown on the drawings and as specified.

**918.02 Materials.** Pipe shall be of the size and type specified in the proposal and shown on the plans and shall meet the requirements of the pertinent specifications listed below. When the kind of pipe is not specifically itemized in the proposal or shown on the plans, any of the following types of pipe may be used.

Sanitary house connection services which are to be installed from an existing main line lateral sewer shall be connected to the existing sewer or appurtenance with the same material fitting or with a flexible adapter approved by the Engineer. The connection shall produce as tight a joint between the existing and proposed work as that specified for the sanitary house connection service pipe joint.

Specific materials shall be as follows:

1. Stone or gravel bedding - No. 57 or No. 8.....703  
or compacted granular material.....912.02

2.	Concrete for backing and backfill - Class A.....	499, 905
3.	Extra strength vitrified clay pipe .....	706.08
4.	Non-reinforced concrete pipe .....	706.01
5.	Poly vinyl chloride (PVC) sewer pipe .....	720.02
6.	Ductile iron pipe.....	801.03

**918.03 Excavation.** The work shall be done according to Section 901.03.

**918.04 Bedding.** Pipe shall have a bed of granular material extending from a point 4 inches (102 mm) below the bottom of the pipe to 12 inches (305 mm) above the outside top of the pipe as shown on the Standard Drawing.

The Contractor shall place a cut off trench dam of native clay or impervious soil across and along the trench upstream from the main line sewer connection to retard and resist the movement of groundwater through the trench granular bedding or backfill material. The trench dams shall be carefully compacted and shall be 6 feet (1.8 m) in length, as measured along the service centerline and shall be constructed against the undisturbed trench sides from the subgrade or bottom of the Stone Foundation, whichever is lower, to a limit of 36 inches (0.9 m) over the top of the pipe.

**918.05 Laying Pipe.** The work shall be done according to Section 901.12. Horizontal bending of flexible conduits is not permitted. *Horizontal or vertical 90 degree fittings are not permitted. Elbows used to change direction must have at least 1 foot (0.3 m) of nipple exposed between fittings.*

The end of the sanitary house connection service, installed for future use, shall be plugged with an approved stopper so as to prevent ground water infiltration.

At the end of the service shall be set a Y-Pole made of timber not less than 2 inch x 2 inch (50 x 50 mm) in section with the timber being in good condition, straight, sound and free from large or loose knots. The Y-Pole shall extend to a point above the backfill. After the Engineer has located the Y-Poles, the Contractor shall cut off the Y-Pole to a point slightly below the original ground surface. The Y-Pole shall be braced in such a manner as to hold it firmly in position during backfilling. If the Y-Pole is pulled out or bent over, the Contractor shall dig down to its end and replace or straighten the Y-Pole. The Y-Pole shall be adjacent to the end of the service, but not on it.

Sanitary house connections crossing watercourses shall use five mil thick polyethylene-wrapped ductile iron pipe unless otherwise approved by the Engineer. The pipe shall extend 10 feet (3.0 m) beyond both banks of the watercourse.

**918.06 Pipe Joints.** The joints for sanitary house connection service lines shall be as follows:

<u>Material</u>	<u>Joint Specifications</u>
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1.	Vitrified clay pipe .....	901.15
2.	Concrete sewer pipe .....	901.15
3.	Ductile iron pipe.....	901.15
4.	PVC plastic pipe.....	901.15

**918.07 Backfilling.** The work shall be done according to Section 901.17.

**918.08 Surface Soil and Restoration of Surfaces.** The work shall be done according to Section 901.18.

**918.09 Service Connections Abandoned.** Where a sanitary house connection service is to be abandoned, the service shall be cut, capped, or plugged at one of the following locations:

1. At the R/W line
2. Inside the existing sewer easement.
3. No closer than 5 feet (1.5 m) of the existing building foundation.

The location shall be as shown on the plan or otherwise as directed by the engineer.

**918.10 Method of Measurement.** The length of sanitary house connection service shall be measured on the centerline of the pipe as constructed from the wye fitting to the end of the sanitary house connection service, including all fittings except wyes.

**918.11 Basis of Payment.** Payment for accepted quantities of sanitary house connection service, including the furnishing and placing of the Y-Pole, will be paid for at the contract unit prices per linear foot (meter), complete in place.

Payment will be made under the following:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
918	Linear Foot (Meter)	___ Inch (mm) Diameter Pipe, Sanitary House Connection Service
918	Each	Service Connections Abandoned