

## **Building Sewer And Service Lateral Construction and Replacement Specifications**

The following specifications are to be followed in the construction and/or replacement of Building Sewers and Service Laterals.

### **Definitions:**

1. **Backfill:** Material placed in trench from the top of the bedding to the finish grade, or sub base of pavement.
2. **Bedding Material:** Material placed in trench to support the pipe and conduit.
3. **Building Drain:** The lowest horizontal piping of a building drainage system which receives the discharge from waste, and other pipes inside the walls of the building and conveys it to a point approximately five feet outside the foundation wall of the building.
4. **Building Sewer:** The extension of the building drain to the Service Lateral.
5. **Service Lateral:** The pipe that conveys wastewater from the property line and/or easement to the public sanitary sewer. (The portion of the pipe under the street)

### **Specifications:**

1. The Service Lateral shall be constructed of six (6) inch PVC SDR 35 slip joint pipe (The portion of the pipe under the street).
2. The Building Sewer shall be constructed of four (4) inch PVC SDR 35 slip joint pipe or four (4) inch Schedule 40 PVC pipe (The portion of the lateral not under the street).
3. The slope of the Building Sewer and the Service Lateral shall not be less than one-eighth (1/8) inch per foot. If possible it is recommended that the Building Sewer and Service Lateral be installed at a slope of one-fourth (1/4) inch per foot.
4. The Building Sewer and the Service Lateral are to have four (4) to six (6) inches of bedding beneath the pipe. Bedding material is to be No. 8 or No 12 crushed limestone.
5. The Building sewer is to be backfilled with a minimum of six (6) inches of No. 8 or No. 12 crushed limestone over the top of the pipe.
6. Service Laterals under road surfaces or other paved surfaces are to be backfilled with No 8 or No 12 crushed limestone to finish grade of the roadway. The road surface is to be repaired in accordance with the City of Greensburg Street Cut Specifications.
7. All connections, with the exception of sliplined pipe, to the sanitary sewer mains are to be made with a PVC SDR 35 slip joint "wye" or "tee". A flex coupling may be used for the transition from the PVC SDR 35 slip joint "wye" or "tee" fitting to the sewer main.
8. Connections to sliplined pipe can be made using a tapping saddle. The tapping saddle shall be installed in a neatly tapped hole cut into the sliplined pipe.
9. Manhole connections for service laterals are to be installed as follows:
  - a. Manholes are to be core drilled.
  - b. A flexible pipe to manhole connector shall be used in the connection of the sanitary sewer pipe to the manhole. The connector assembly shall be the sole element relied on to assure a flexible watertight seal of the pipe to manhole.

- c. Non shrink grout is to be place on the inside of the manhole, in the area between the pipe and the outside diameter of the bore opening.
  - d. A drop pipe is required if the distance from the bottom of the service lateral to the bottom of the manhole is greater than two (2) feet.
  - e. The drop pipe is to be installed to direct the flow from the service lateral to the flow of the sanitary sewer main.
  - f. If the vertical drop pipe is greater than three (3) feet, the drop pipe is to be anchored to the manhole using stainless steel straps and stainless steel masonry anchors.
  - g. If the vertical drop pipe is greater than six (6) feet the drop pipe is to be anchored to the manhole on three (3) foot centers.
10. If the Building Sewer and/or the Service Lateral is to be installed using a trenchless method to avoid open-cutting the existing pavement, prior approval by the Wastewater Superintendent is required.