



SEWER INSTALLATION STANDARDS FOR HOMEOWNERS

Materials, UPC, Chapter 7

Approved materials for a building sewer include: clay tile, asbestos-cement sewer pipe, and plastic sewer pipe with lettering indicating 1,000 pound crush test, and that it meets the specifications of either Commercial Standard 228-61 or ASTM D2751-68. In addition, any material approved for the underground drainage system within a dwelling may be used for the building sewer. These include copper DWV, cast iron soil pipe with lead, or mechanical joints (including no-hub), ABS/DWW Schedule 40 plastic pipe, and PVC/DWV Schedule 40 plastic pipe.

Bituminized fiber sewer pipe is not permitted, and the minimum pipe size of four-inches inside diameter shall be used.

Trenching

The location of the sewer tap can be obtained from the Civil & Environmental Engineering office at 840 Northgate Dr, (509)942-7500.

To connect an existing building to the municipal sewer, the septic tank and the cesspool must be bypassed. To avoid additional cleanouts, it is suggested that 1/8 bends (45° elbows) or 1/16 bends (22-1/2° elbows) be used. For example, when using 1/8 bends, dig the trench at a 45° angle to the existing sewer between the building and the septic tank to a point in line with the sewer tap; and then dig the trench from that point to the sewer tap.

It is required that the trench be graded so the sewer will have a fall of one-inch for each four-feet horizontally (1/4" per foot); however, the plumbing code will permit a minimum fall of one-inch per eight-feet horizontally (1/8" per foot). The trench should be sufficiently deep so that the sewer line has at least 24-inches dirt coverage at its highest point when the ditch is filled flush with the surface of the ground.

Cleanouts

A cleanout is required at the junction of the building drain (the stub-out from the building) and the sewer. The cleanout must be a wye fitting or a combination wye and 1/8 bend, and it must be of the same material as the building drainage system and shall extend to the surface of the ground. An approved cleanout cap shall be installed.

On all sewers an additional cleanout is required for each 100-feet of pipe run, and for each change in direction in excess of an aggregate of 135°. Cleanouts must be extended to grade with approved material.)