

**ECONOMY BOROUGH MUNICIPAL AUTHORITY  
CONDENSED INSTALLATION SPECIFICATION**

Before you Dig – Pennsylvania Act 187, Underground Utility Line Protection Law of 1996  
Requires You Call Pennsylvania One Call 1-800-242-1776

1. General – Sewer Service Line shall include connections to Sewer Service Line, test tee, running trap with fresh air vent, a grease trap where required, and connection to the building drain. Downspouts, rain conductors, driveway drains, area drains, or french drains shall not be connected to the Sewer Service Line.
2. Size – Residential – 4” minimum diameter pipe that is installed to a minimum slope of 1/4 ” per foot. Non-Residential – 6” minimum diameter pipe that is installed to a minimum slope of 1/8” per foot.
3. Materials – All sewers below floors of building and to a maximum of 5 feet outside the building wall and the Sewer Service Line shall be SDR-35, Schedule 40 PVC or ABS Pipe. A running trap with a vent pipe and Pittsburgh pattern vent cap shall be installed at the end of the drain as shown. All pipe under the floor and passing through the floor shall be a minimum of 4” unless prior approval is granted by the Authority. The pipe as it exits the building wall shall be installed at a minimum depth of 36”. From the trap to the main line connection, the pipe shall be the same as listed above. Vent pipes and clean-outs are not permitted to be located in driveways, carpaths, walkways or other finished surface areas unless prior approval is granted by the Authority. The vent cap shall be installed 6” above grade to prevent the inflow of water into the sewer line.

Food preparation establishments and other establishments at the discretion of the Authority shall install grease traps of a style and size acceptable to the Authority. Sinks in food preparation areas of these establishments shall also have under-sink grease traps.

4. Clean-Outs and Directional Changes – Clean-outs, consisting of a wye branch fitting, a curved fitting, riser pipe and a watertight cap are required every 100 feet or at all directional changes greater than 45 degrees. Clean-outs located in lawns, open fields, or other unfinished surface areas, shall be installed 6” above grade and encased in concrete to provide support for the riser pipe. No 90 degrees bends shall be permitted except on an inside vertical end of run. No exceptions.
5. Adapters – Approved adapters such as donuts or couplings by Fernco, Inc., or approved equivalent, may be used to connect pipe joints, reduce 6” pipe to 4” and connect the building drain to the running trap.
6. Installation – Before digging the trench, the installer should expose the lateral connection and the building drain. Trench width shall be kept to a minimum width and have uniform slope as near as possible at right angles to the street. Excavate all trenches at least 6” below the bottom of the pipe. Place an aggregate backfill, maximum of 3/4” gravel size,

in the trench to grade of the pipe. Install the pipe keeping any gravel, dirt, or water from entering the pipe. Place 12" of aggregate on top of the pipe ensuring uniform bedding to all sides of the pipe. The remainder of the trench may be backfilled with material from the original excavation. The sewer line trench shall have a minimum 3 feet horizontal separation and 18" vertical separation from other pipelines such as water service lines, gas lines, french drains or storm sewers. An Authority inspector must be present to visually inspect the backfilling of the sewer lateral trench.

7. Inspection – The Authority shall be notified at least 24 hours prior to the inspection of the building drain, sewer service line and related appurtenances. The inspection shall be conducted prior to the connection to the trap, unless the building drain and the Sewer Service Line are to be inspected at the same date, and prior to any backfilling. All lines shall be capped prior to inspection. The inspection shall consist of an air test of 5 lbs. for 15 minutes without any loss of air pressure, or in the case of a pressure sewer a hydrostatic test when no water is lost from a filled service lateral for 30 minutes, a visual inspection of the pipe and the recording of pertinent information relating to the installation of the pipe. Inspection will not be scheduled until all Applications for Service have been submitted. An as-built plumbing plan shall be submitted to the Authority prior to service being rendered. If the sewer lines do not pass inspection, a fee will be levied and must be paid before re-inspection of the sewer lines will be scheduled.
8. Final Connection – If a completed connection to the building drain is not made at the time of the installation of the building sewer, a temporary plug shall be solvent welded into the end of the lateral and shall not be removed until such time as the connection is made to the building drain and an Authority Representative is present to visually inspect the final connection and backfilling of the trench.
9. Final Inspection – Prior to the issuance of an Occupancy Permit by Economy Borough, the Authority will conduct a final inspection of the property to ensure that all sewer facilities located within the property have been installed and maintained in accordance with Authority specifications. The Authority's inspector will complete and sign a Final Inspection Form to be forwarded to Economy Borough for their subsequent issuance of the Occupancy Permit. Any deficiencies cited during the Final Inspection must be corrected prior to the Authority's release of the Final Inspection Form to Economy Borough.
10. Grinder Pumps – Grinder pumps for individual sewer service to private properties are used only when gravity service is not available or is not a viable option. The recommended grinder pump for this type of service is the Model GP 2010, as manufactured by Environment One Corporation. The installation of the pump and its operation, maintenance, and power costs up to \$36 per year are the responsibility of the Authority, with the exception of new home construction and existing customers. Existing customers and property owners installing grinder pumps for new home construction, shall install grinder pump units in accordance with the Condensed Installation Specifications for Residential and Commercial Grinder Pumps located in Attachment 1.