

# THE MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WASHINGTON

1390 Fayette Avenue  
Belle Vernon, PA 15012

## RULES AND REGULATIONS FOR THE INSTALLATION OF SEWER SERVICE LATERALS

1. PROCEDURE: The general procedures required in the installation of private sewer service laterals, which shall be in accordance with the Authority's Rules and Regulations for Sewer Service, are shown on the attached Drawing Number 2-518-1541-1 and summarized as follows:
  - (a) On the Building Sewer Wye Connection Form provided by the Authority, examine the sketch to determine the location of the service wye for the property to be served. If the sketch is not clear or additional data is needed, visit the Authority office to examine the as-built sewer drawings. Discuss with the Authority Inspector any particular conditions of the proposed construction that requires special attention. The telephone number of the Authority is 724-929-3370.
  - (b) Locate and uncover the end of the Authority's service sewer and the building drain at the point connections are proposed prior to any further excavation, determine the elevation of and the required grade between the two points, to assure that the minimum allowed grade can be met.
  - (c) Perform the required inspection of the existing house plumbing to assure that no floor drains, sump pumps that pump ground or surface water (sump pumps that pump only sanitary sewage or gray water are permitted), depressed driveway drains, outside cellar stairwell drains, outside window wells, downspouts, foundation drains, or any facility conducting storm water, surface and ground water are connected to the existing plumbing. If prohibited connections exist, they shall be removed and the existing plumbing retested.
  - (d) Proceed with further excavation between these two points.
  - (e) Lay pipe from lateral or service wye, or if none exists, from an approved saddle or other service connection installed by Authority personnel, including inspection port near property line upgrade to near the point of connection to the building sewer. The Authority Inspector shall be notified of the scheduled connection to the Authority's sewer at least 72-hours in advance. Do not connect to the Authority's sewer without the Authority Inspector observing. As part of the building sewer, cleanout plugs shall be installed and a visual inspection port shall be installed over the top of the inspection tee. In traffic areas, a locking cleanout cover shall be installed over the inspection port and cleanouts. Care shall be taken to keep the stack vertical so that visual inspection may be completed.
  - (f) Perform the required testing of the building sewer.
  - (g) After approval has been given by the Inspector, the Contractor/Installer shall make the connection at the tap with the Inspector present. Connections to the tap shall be made with an adapter, coupling, reducer fitting or combination thereof. The Contractor/Installer must provide all ditch pumps or whatever is necessary to assure no water, mud, dirt or rock is allowed to enter the tap or lateral. The temporary lateral cap or plug must be saw cut with the Inspector present at time of cutting. The cap or plug will not be pulled off the tap line.

- (h) For both new and existing buildings, no backfill shall be made on the sewer service lateral; it shall be visible for inspection. If the trench has been backfilled, the sewer service lateral will be plugged by the Authority until the trench has been re-excavated and the pipe is visible.
- (i) Request inspection by Authority of exposed piping, in which particular attention will be given to:
  - (1) Installation of a suitable trap or traps on the building facilities. A vented trap/cleanout must be installed within five feet (5') of the building connection. The vent cover shall be located above the 100-year flood level and securely fastened to the building.
  - (2) Facilities for conducting roof drainage away from the building and away from the sanitary sewer and the foundation.
  - (3) Facilities for draining the foundation drain away from the building and the sanitary sewer.
  - (4) Connection of prohibited facilities to the sanitary sewer. Included in these facilities are floor drains, sump pumps that pump ground or surface water (sump pumps that pump only sanitary sewage or gray water are permitted), depressed driveway drains, outside cellar stairwell drains, outside window wells, downspouts, foundation drains, or any facility conducting storm water into the sanitary sewer by any means.
  - (5) The slope of the sewer service lateral to the tee at the inspection port, which shall be 1/4-inch per foot or more if possible for four-inch pipe or 1/8-inch per foot or more if possible for six-inch pipe.
  - (6) Conformance of materials used in the construction of the sewer service lateral.
  - (7) Tightness of joints in pipes and use of mortar or other prohibited materials in joints.

The property owner shall correct any deficiencies noted by the Authority Inspector in accordance with these requirements.

- (j) Upon inspection and approval by the Authority, make final connection to the building sewer, this work being accomplished in the presence of the Authority Inspector.
  - (k) Backfill.
2. TYPE AND STRENGTH OF PIPE: All pipe installed shall be either Schedule 40 PVC or ASTM D-3034 SDR 35 PVC plastic solid wall gravity sewer pipe and of at least four (4) inches inside diameter. Plastic riser pipes for vent and cleanout shall be made with Schedule 40 PVC plastic solid wall pipe with glued joints.

The gravity PVC pipe must conform to either ASTM D-1784 Schedule 40 or ASTM D-3034 SDR 35 with rubber sealing ring (ASTM 03212). Proper construction and installation methods must be strictly followed. Bedding and side support shall be either sand (fine aggregate or PennDOT 2B) or AASHTO 57 graded stone (coarse aggregate).

3. MINIMUM PIPE SLOPE: Minimum pipe slope shall be 1/4" per foot (2%) for 4" pipe or 1/8" per foot (1%) for 6" pipe.
4. CLEANOUTS AND TRAPS: The installation of an outside trap with a vent/cleanout and an inspection port on the new service lateral is required. Additional cleanouts are permitted for special conditions of alignment, as may be desired by the property owner. All cleanouts and the inspection port must extend to a minimum of 6-inches above the finished ground surface, or must be installed flush with the finished ground and have a cast iron cover such as the Valco locking "sewer" cleanout cover #640 (4") or #888 (6"), or equivalent, to protect the cleanout/inspection port from damage. All cleanouts/inspection ports installed in traffic areas shall be installed with a cast iron cover such as the Valco locking "sewer" cleanout cover #640 (4") or #888 (6"), or equivalent.

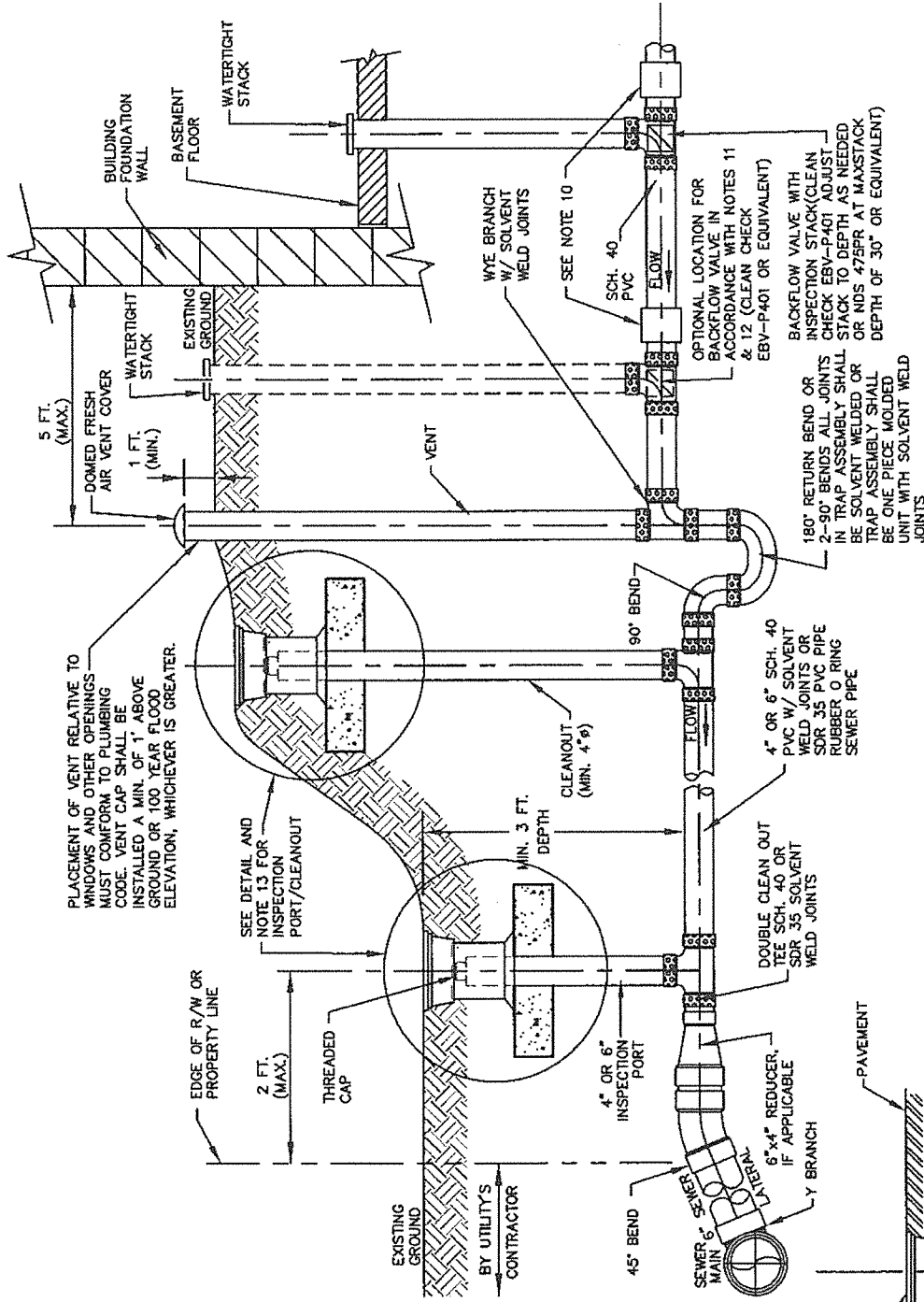
The use of grease traps on all establishments which discharge grease or oil, such as restaurants, etc. is required. Such facilities must have grease and oil trap(s) installed in accordance with the International Plumbing Code. The grease and oil traps must be approved in writing by the Authority before installation.

5. PIPE LAYING AND BACKFILLING: Following the trench preparation, pipe laying shall proceed upgrade with the pipes laid carefully, hubs upgrade, spigot ends fully entered into adjacent hubs and true to line and grade. Each section of pipe shall rest upon the pipe bedding for the full length of its barrel with recesses excavated to accommodate bells or couplings. Bedding shall be a minimum 6" of either sand (fine aggregate or PennDOT 2B) or AASHTO 57 graded stone (coarse aggregate). Each pipe shall be firmly held in position so that the invert forms a continuous grade with the invert of the pipe previously placed. The interior of all pipe and the inside of the bell and outside of the spigot shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of watertight plugs or other approved devices. Under no conditions, shall pipe be laid in water or on subgrade containing frost, and no pipe shall be laid when trench conditions are unsuitable for such work. After the sewer has been installed, inspected and approved, and proper connections made, the area around the pipe shall be carefully backfilled with either sand (fine aggregate or PennDOT 2B) or AASHTO 57 graded stone (coarse aggregate) to a point 12-inches above the pipe and the remaining trench may be backfilled with clean earth and tamped with hand equipment to a depth of two feet above the top of the pipe. Tamping of additional backfill above that point is at the discretion of the property owner.
6. CONNECTION TO EXISTING SEWER:
  - (a) Connection to both the house plumbing and the end of the service connection shall be with a proper fitting specially manufactured for such use. Under no conditions is it permitted to make a direct connection to the main sewer. In the event there is no service connection available at the required point of connection to the public sewer, the Authority Inspector must be notified to provide the wye saddle connection. Replacement of all wye fittings broken by the property owners or their private contractors shall also only be by the Authority with the costs of such replacement being borne by the property owner.
  - (b) Entry of a connecting sewer into a manhole must be approved in advance by the Authority before a permit will be issued.
  - (c) Connection to an existing private sewage system, which uses a septic tank or other such sewage disposal system, must be made between the occupied building and the septic tank or other such sewage disposal system.

- (d) If it is necessary for the property owner to connect to the Authority's existing sanitary sewer, the connection must be made with a wye fitting, sized for the sewer pipe being tapped, cut into the existing sewer, and connected at both ends with non-shear elastomeric (e.g. Fernco) connectors, or a saddle wye sized for the sewer pipe being tapped, or appropriately sized Insert-a-Tee. Cutting of existing sanitary sewer pipe for installation of the saddle will be performed by Authority personnel only. The property owner will be responsible for excavation prior to cutting of the existing sewer for the saddle. The property owner must contact the Authority office prior to excavation to confirm that the above procedure is understood and to schedule Authority personnel to cut the existing sewer. The phone number of the Authority is 724-929-3370.
7. USE OF EXISTING BUILDING SEWER: The existing building sewer from the building to the septic tank can only be used if it can be demonstrated by the property owner to the Authority Inspector that the existing sewer is of proper construction, is watertight and has no illegal connections. Inspector may require closed-circuit television (CCTV), exfiltration, low air pressure, or smoke test on sewer, at property owner's expense, to determine pipe soundness, including watertightness and presence of illegal connections.
8. PROHIBITION OF SURFACE AND GROUND WATER CONNECTIONS: Connection of floor drains, sump pumps that pump anything other than sanitary sewage or gray water, roof downspouts, exterior foundation drains, areaway drains, or other sources of surface runoff or ground-water to a building sewer or building drain which in turn is connected directly or indirectly to the public sanitary sewer is strictly prohibited.
9. PROTECTION OF CONSTRUCTION: All excavations for sewer service lateral installation shall be adequately guarded to protect the public from hazard.
10. TESTING: The gravity sewer test to be performed by the landowner or his contractor shall consist of a method utilizing air or water that conforms with the testing requirements included within the International Plumbing Code. In addition to this testing and where considered necessary by the Authority Inspector, routine dye and/or smoke testing of the new and existing service line may be performed by the Authority.
11. TIMING: Where a new building is to be constructed and connected to the Authority's system, the connecting sewer must be suitably plugged until the permanent sewer connection is made to preclude any excavation drainage, mud, or debris from entering the Authority's system. The Authority must be notified at least 72 hours in advance of construction.
12. SPECIAL CONNECTIONS: In the event an unusual or difficult type of sewer connection is proposed, the property owner shall submit to the Authority for their approval, a detailed sketch showing type of connection and method of construction. Such connection shall not be made prior to its approval by the Authority.
13. BACKFLOW VALVES: Backflow valves are required as per applicable codes and are recommended for all connections subject to sewer surcharge. The customer acknowledges that backflow valves are owned and maintained by the land owner. The Authority accepts no responsibility for the proper operation or damages caused by malfunctioning of the backflow valves.
14. RIGHTS OF WAY: The Property Owner is responsible to acquire any Rights of Way needed across private property of others to provide sewer service to the building.

**NOTES:**

- SEWER PIPE BETWEEN THE SEWER MAIN AND THE CUSTOMER'S VENT SHALL BE EITHER 4" OR 6" DIAMETER AND MADE FROM EITHER SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS OR SDR 35 PVC PIPE WITH RUBBER ELASTOMERIC GASKETS.
- SEWER PIPE SHALL BE BEDDED (6" MINIMUM BELOW & 12" ABOVE PIPE) WITH SAND OR PA No. 2B COARSE AGGREGATE.
- ADDITIONAL CLEANOUTS SHALL BE INSTALLED EVERY 100 FT ON LATERALS AND AT ALL BENDS GREATER THAN 45°.
- MINIMUM PIPE SLOPE SHALL BE 1/4" PER FT. FOR 4" PIPE OR 1/8" PER FT. FOR 6" PIPE.
- SEWER MUST EXTEND AND CONNECT TO SOLID PIPES, NO DOWN SPOUTS, FRENCH DRAINS, SUMP PUMPS OR OTHER GROUND WATER COLLECTION PIPES OR DRAINS CAN BE CONNECTED TO THE SEWER LATERAL. SUMP PUMPS THAT PUMP ONLY GRAY WATER MUST BE CONNECTED TO THE LATERAL.
- VENT COVER SHALL BE LOCATED ABOVE 100 YR. FLOOD LEVEL.
- ALL ESTABLISHMENTS WHICH DISCHARGE GREASE OR OIL SUCH AS RESTAURANTS, ETC. SHALL INSTALL AN APPROVED GREASE AND OIL TRAP.
- ALL ESTABLISHMENTS WHICH DISCHARGE GRIT OR SEDIMENT SUCH AS A CAR WASH, ETC. SHALL INSTALL AN APPROVED SEDIMENT & GRIT TRAP.
- CONNECTIONS TO EXISTING PIPE MAY UTILIZE A TRANSITION COUPLING WITH STAINLESS STEEL SHEAR RING (FERNOX 5000 SERIES OR EQUIVALENT).
- IN ACCORDANCE WITH SECTION 715 OF THE INTERNATIONAL PLUMBING CODE, BACKWATER VALVES SHALL BE INSTALLED FOR ALL PLUMBING FIXTURES AND DRAINS SUBJECT TO BACKFLOW. PLUMBING FIXTURES AND DRAINS NOT SUBJECT TO BACKFLOW ARE NOT PERMITTED TO DISCHARGE THROUGH THE BACKWATER VALVE.
- BACKFLOW VALVES MAY BE LOCATED WITHIN THE BASEMENT OR OUTSIDE THE BASEMENT. THE VALVE SHALL BE WITHIN 30" OF THE FOUNDATION WALL.
- INSTALLATION OF CAST IRON CLEANOUT COVER IS REQUIRED IN TRAFFIC AREAS ONLY AND OPTIONAL IN NON-TRAFFIC AREAS. IF THE COVER IS NOT INSTALLED IN NON-TRAFFIC AREAS, THE CLEANOUT FITTING HUB AND CAP SHALL BE INSTALLED A MINIMUM OF 6" ABOVE GROUND LEVEL.



THE MUNICIPAL AUTHORITY OF  
THE TOWNSHIP OF WASHINGTON  
FAYETTE COUNTY  
PENNSYLVANIA

TYPICAL SEWER SERVICE  
LATERAL INSTALLATION

SCALE	N.T.S.	DRAWN BY	SHEETS IN SET
DATE	MAY 2011	H.L.G.	1
DESIGNED BY		APPROVED BY	
		D.W.K.	2-51B-15(1-1)

BANKSON ENGINEERS, INC.  
CONSULTING ENGINEERS  
INDIANOLA, PA 15651

REVISED H.L.G. 10-25-11  
REVISED H.L.G. 10-19-11  
REVISED D.G.G. 05-31-11

PLACEMENT OF VENT RELATIVE TO WINDOWS AND OTHER OPENINGS MUST CONFORM TO PLUMBING CODE. VENT CAP SHALL BE INSTALLED A MIN. OF 1' ABOVE GROUND OR 100 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

SEE DETAIL AND NOTE 13 FOR INSPECTION PORT/CLEANOUT

EDGE OF R/W OR PROPERTY LINE

2 FT. (MAX.)

THREADED CAP

EXISTING GROUND

BY CONTRACTOR

45° BEND

SEWER 6" LATERAL

Y BRANCH

6" x 4" REDUCER, IF APPLICABLE

PAVEMENT

4" OR 6" INSPECTION PORT

DOUBLE CLEAN OUT TEE SCH. 40 OR SDR 35 SOLVENT WELD JOINTS

4" OR 6" SCH. 40 PVC W/ SOLVENT WELD JOINTS OR SDR 35 PVC PIPE RUBBER O RING SEWER PIPE

90° BEND

CLEANOUT (MIN. 4' 9")

MIN. 3 FT. DEPTH

WYE BRANCH W/ SOLVENT WELD JOINTS

SEE NOTE 10

SCH. 40 PVC

OPTIONAL LOCATION FOR BACKFLOW VALVE IN ACCORDANCE WITH NOTES 11 & 12 (CLEAN CHECK EBV-P401 OR EQUIVALENT)

BACKFLOW VALVE WITH INSPECTION STACK (CLEAN CHECK EBV-P401 ADJUST STACK TO DEPTH AS NEEDED OR NDS 475PR AT MAX STACK DEPTH OF 30" OR EQUIVALENT)

180° RETURN BEND OR IN TRAP ASSEMBLY SHALL BE SOLVENT WELDED OR TRAP ASSEMBLY SHALL BE ONE PIECE MOLDED UNIT WITH SOLVENT WELD JOINTS

DOMED FRESH AIR VENT COVER

5 FT. (MAX.)

1 FT. (MIN.)

WATERTIGHT STACK

EXISTING GROUND

BASEMENT FLOOR

WATERTIGHT STACK

FOUNDATION WALL

BUILDING

TRAFFIC AREA INSPECTION PORT / CLEANOUT DETAIL

4" THICK X 24" CONCRETE PAD (PAVED AREAS ONLY) OR 6" THICK COMPACTED 2B STONE

4" LOCKING SEWER CLEANOUT COVER #840 (4") OR #888 (6") OR EQUIVALENT. REMOVABLE CAST IRON COVER STAMPED "SEWER"

CLEANOUT FITTING HUB AND CAP PART NO. 063760 (6") OR FEMALE ADAPTER (SCH 40 OR SDR 35) WITH THREADED PLUG (4").

4" CLEANOUT OR 6" INSPECTION PORT