

SECTION 10

RESIDENTIAL SEWER INSTALLATION, CONNECTION, FEES AND PROCEDURES

10.00 TAP FEES & SEWER CONNECTION PROCEDURES

The Municipality Authorities Act, Section 5607 (d) Powers (24), as amended

PA Act 57 of 2003

Adams Township Ordinance No. 57 of 1992

Mars Borough Ordinance No. 386 of 1996

BCRA Resolution No. 2008-5 & BCRA Resolution No. 2008-6

The General procedure required in the installation of private connecting sewers is summarized as follows:

(a.) **TAPPING FEE (CASH):** Submit application for permit to construct private connecting sewer on form provided. A tap fee equal to the amount currently charged for sewer connection must be paid at this time; or,

(b) **TAPPING FEE (BOND):** Submit application for permit to construct private connecting sewer on form provided. The submission of a bond to the Authority as prepayment of tapping fee enabling the property owner(s) to secure a municipal building permit for construction purposes only. Prior to said property connecting to the Authority's main sewer line, full payment of the Authority's current tapping fee shall be required.

(c) Examine the as-built sewer plans of the Authority available at the Manager's office to determine the referenced location of the service wye for the property to be served and to discuss with the Authority and/or Inspector any particular conditions of the proposed construction requiring special attention.

(d) PA One Call Systems Inc. costs shall be the customers responsibility for property owner's failing to contact PA One Call to locate utility lines prior to digging. 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 (2) points, to assure that the minimum allowed grade can be made.

(e) Proceed with further excavation between these two (2) points.

(f) Lay pipe from property line, including inspection stack near property line grade to near the point of connection to the building drain. The applicant may not connect to the sanitary sewer lateral at this time. If the trench has been backfilled, no connection to the sanitary sewer will be permitted until the trench has been re-excavated and the pipe visible. Conduct an air test which requires 5 psi to be held for ten (10) minutes for the Inspector to witness.

(g) Request inspection by the Authority of exposed piping **MUST** be made twenty-four (24) hours in advance, in which particular attention shall to given to:

- ▶ Installation of a suitable trap or traps of the hand hole type on the building facility.

10.00 TAP FEES & SEWER CONNECTION PROCEDURES (continued)

- ▶ Facilities for conducting roof drainage at least ten (10') feet away from the building and away from the sanitary sewer and the foundation. Facilities for draining the foundation drain away from the building and the sanitary sewer.
- ▶ Connection of prohibited facilities to the sanitary sewer. Included in these facilities are depressed driveway drains, outside cellar stairwell drains, outside window wells, down spouts, foundation drains, or any facility conducting storm water into the sanitary sewer by any means.
- ▶ The slope of the building sewer to the tee at the inspection stack, which shall be a minimum of one-quarter ($\frac{1}{4}$ ") inch per foot.
- ▶ Conformance of materials used in the construction of sewers with *Breakneck Creek Regional Authority Rules and Regulations for the Construction of Connecting Sewers*.
- ▶ Tightness of joints in pipes and use of mortar or other prohibited materials in joints.
- ▶ The Applicant shall correct any deficiencies noted by the inspector in accordance with these requirements.

(h) Upon completion of a satisfactory inspection, the Applicant shall make the connection to the Authority lateral in the presence of the Inspector. The slab may be poured and backfill of the sanitary sewer may then be completed. The inspection stack shall be constructed, with watertight joints and a top section of PVC pipe extending a minimum of six (6") inches above the ground surface. A PVC cap shall be installed over the top of the inspection stack, which shall be removable for visual inspection of the building sewer. Care shall be taken to keep the stack vertical so that visual inspection may be completed.

(i) Billing for sewer service shall commence upon the date of connection inspection to the system.

(j) All building sewers shall be properly maintained by the owner or customer. When repairs, renewals or replacements or other necessary work are required in the aforesaid facilities, the owner or customer shall employ, without delay, competent tradesmen to do the work, at his expense.

10.01 TYPE OF PIPE

The pipe used for connecting sewers shall be SDR 35, ASTM 3034 PVC Pipe or Schedule 40 PVC Pipe may be used. Joints shall be either solvent cemented or compressed gasket type for PVC. PVC pipe shall conform to ASTM D-3034 (SDR-35).

10.02 MINIMUM SIZES AND GRADES

Minimum pipe diameter shall be size four (4") inches. Minimum pipe slope, when available, shall be one-quarter ($\frac{1}{4}$ ") inch per foot.

10.03 CLEAN OUTS AND TRAPS

The use of outside traps on the new service lines are required. The use of clean outs on the new sewer service line are required. Clean outs are permitted for special conditions of alignment, as may be desired by the property owner. When traps and/or clean outs are to be installed on new sewer service lines, they must be installed as shown in the DETAIL OF SERVICE SEWER diagrams #24A and #24B. All trap vents and clean outs must extend to at least six (6") inches above the finished ground surface and must have a commercially manufactured vent cap to keep out leaves, debris and animals. Trap vents and clean outs must be laterally supported with properly compacted backfill, and must not be installed in driveways where they are subjected to damage from vehicular traffic and/or used as an area drain for surface water.

Establishments which discharge grease or oil, such as restaurants, must have a grease and oil trap. The grease and oil trap must be approved before installation by the Authority. Refer to the GREASE TRAP DETAIL #27.

10.04 PIPE LAYING AND BACKFILLING

Following 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 bed for the full length of its barrel with recesses excavated to accommodate bells or couplings. 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 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 the proper connections made, the area around the pipe shall be carefully backfilled with clean earth or class 2A aggregate or better by shovel and tamped with hand equipment in four (4") inch layers to a depth of at least two (2') feet above the top of the pipe.

The backfill shall be solidly rammed down and tamped around the sewer and under it. Tamping of additional backfill above that point is at the discretion of the property owner, except under road right-of-way, in which case Sub-Section 1.04 entitled RIGHT-OF-WAY, page three of the *Breakneck Creek Regional Authority Specifications For The Construction of Sanitary Sewer Lines and Appurtenances* shall govern.

10.05 CONNECTION TO EXISTING SEWER

(a) If a bond was submitted to the Authority as prepayment of a tapping fee thus enabling the property owner(s) to secure a municipal building permit for construction purposes only, the property owner(s) must submit full payment of the Authority's current tapping fee prior to said property connecting to the Authority's main sewer line.

10.05 CONNECTION TO EXISTING SEWER (continued)

(b) 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 special conditions for which no available fitting can be used, concrete encasement with proper caulking will be permitted. In the event there is no service connection available at the required point of construction to the public sewer, the Authority should be notified. The replacement of all wye fittings broken by the property owner or his private contractor shall also only be done after contacting the Authority, with the costs of such replacement being borne by the property owner.

10.06 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 to the Authority Inspector that the existing sewer is of proper construction and is watertight.

10.07 PROHIBITION OF SURFACE AND GROUNDWATER CONNECTIONS

Connection of roof down spouts, exterior foundation drains, driveway drains, or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to the public sewer is strictly prohibited. Swimming pools can be connected to the public sewer subject to the requirement that the pool be drained only on a controlled and scheduled basis as determined by the Authority Manager. Special prior permission of the Authority Manager is required each and every time the pool is to be drained.

10.08 PROTECTION OF CONSTRUCTION

All excavation for building sewer installation shall be adequately guarded to protect the public from hazard, in accordance with Federal, State and local laws.

10.09 EXCLUSIVE USE OF EASEMENTS AND RIGHTS-OF-WAY

The Authority is permitted, through Intermunicipal Sewage Service Agreements, to construct and install sanitary sewers, manholes and appurtenances within the public rights-of-way and easements for roads, streets, alleys and other public thoroughfares maintained by a municipality and will cooperate with the Authority in the construction and installation of same subject to such reasonable requirements of the municipality regarding repaving and surface restoration.

All rights-of-way and easements held by the Authority for purposes contained herein shall be free from interference by any person, landowner, developer, or other entity. There shall be no building or structures of any type built or maintained over, above or on the right of way/easement. Additionally, the right of way/easement shall be free of trees, shrubbery, roots, fences or other obstructions that may interfere with the Authority's ability to use the right-of-way/easement for its intended purpose. Property owners may maintain gardens, trees, shrubbery and other vegetation on or near the right of way/easement which do not interfere with the full use of the right-of-way/easement. However, certain trees and shrubbery whose roots are predisposed to seeking moisture and are known to damage moisture carrying pipes are specifically prohibited from the right-of-way/easement. A list of such trees and shrubbery shall be kept by the Authority.

10.09 EXCLUSIVE USE OF EASEMENTS AND RIGHTS-OF-WAY (continued)

The Authority shall have the right to remove any trees, shrubbery, roots, fences or other obstructions that are within the limits of the right-of-way/easement and may interfere or threaten to interfere with

the sewage/water system or the Authority's ability to maintain said system. The Authority shall not be liable for any damage within the right-of-way/easement to trees, shrubbery, roots, obstructions, fences or other property caused by the operation, maintenance, repair, renewal or removal of the sewage/water system or systems. Landowners shall be permitted to place clean fill on top of the right-of-way/easement so long as the total cover does not exceed sixteen (16') feet and the property owner shall be responsible for raising any manholes affected thereby in accordance with the Authority's regulations.

10.10 TESTING

An air test of five (5) psi for a ten (10) minute period must be installed and ready for the Authority's Inspector to witness.

Failure to comply with the abovementioned air test and Authority inspection described in *Section 10.00 (g)* may result in the Authority requiring the backfilling to be excavated so that the testing and inspection can be performed to the Authority's satisfaction.

10.11 GRINDER PUMPS

Resolution No. 2006-3 of 2006

See Section 8 - STANDARD DETAILS 16 - 17G

See Sample Grinder Pump Agreement, Pages 76 - 78

Authority Owned Grinder Pumps:

1. The Authority will provide to the Homeowner a new grinder pump, grinder pump control panel and pressure service line, all of which will be installed by the Authority at the property.
2. Homeowners will grant to the Authority a license, by formal agreement, to lay and install the grinder pump, control panel and service line, together with any and all appurtenances thereto, under, over, across and/or through the property.
3. In accordance with the provisions of the Adams Township Ordinance No. 57 of 1992, Article II Connection To Sewers Required, the Homeowner will be instructed by the Authority, via certified mail, to connect to the public sanitary sewer system currently being constructed by the Authority within sixty (60) days or within a time-frame designated by the Board of Directors.
4. The Homeowners will install a gravity sewer from the home to the grinder pump unit and electrical service to the grinder pump control panel which shall be provided to the property owner at the time that the notice to connect has been issued.
5. All costs related to the operation of the grinder pump, including utility costs associated therewith, shall be born by the home/property owner.
6. The Authority shall be responsible for all maintenance and repairs associated with the operation of the grinder pump and shall bear all the expense associated with said repair and maintenance and, if necessary, replacement of the grinder pump unless the repair, maintenance and/or replacement is required because of abuse or misuse of the pump by the Homeowners, in which case the Homeowner shall be responsible for replacement.

10.11 GRINDER PUMPS (continued)

Authority Owned Grinder Pumps: (continued)

7. The point of installation of the grinder pump shall be at a spot determined by the Authority in consultation with the Owner, with the express understanding that the grinder pump must be installed in such a place upon the Realty so as to be easily accessible to the Authority for purposes of inspection, repair, maintenance and, if necessary, replacement.

To that end, the Owners grant to the Authority the right and privilege to enter upon the Realty at such times and in such places as may be reasonably and directly necessary for the periodic inspection, maintenance, repair, and, if necessary, replacement of the grinder pump.

8. The Authority shall endeavor to restore the surface of the Realty to a condition which approximates that prior to construction. This does not include or require the restoration, replacement or replanting of any trees, shrubbery, roots, flowers, greenery, obstructions, fences or other property caused by the operation, maintenance, repair, renewal or removal of the sewer system and the like which must necessarily be removed for installation.

9. The obligation of the Authority with respect to maintenance and repair of the grinder pump set forth in Paragraph 4 shall remain in effect only so long as the use of a grinder pump is necessary for service to Owner's Realty. Should the Authority determine that the Owner's Realty can be reasonably serviced without the use of a grinder pump, then the Authority shall have the right and privilege to discontinue the use of same.

10.12 Privately Owner Grinder Pumps:

When a sanitary sewer project is funded by a developer or in the case of new home construction, an Environmental One Grinder Pump or an equivalent approved by the Authority will be purchased, installed and maintained by the customer and at the customers expense.

The customer is responsible for installing the wiring from the dwelling to the grinder pump control panel and the service lateral from the dwelling to the grinder pump.

10.13 VOLUNTARY ELIMINATION FROM AUTHORITY PROJECTS

Should a property owner request to be eliminated from an Authority sewer line extension project, the request must be submitted to the Authority in writing. This is applicable whether said property would be serviced by a grinder pump or by a gravity-driven connection.

If, after review of the request, the Authority determines that the elimination is justifiable, the request will be granted. However, the property owner shall be required to sign an affidavit stating that should public sanitary sewage service be required in the future, he/she shall absorb the cost of purchasing, installing and maintaining the grinder pump, pay the then current tap fee and absorb the total cost of installing the entire service lateral to connect to the Authority's main line.

CONSTRUCTION SPECIFICATIONS FOR RESIDENTIAL SEWER SERVICE CONNECTIONS

1. Sewer alignments/configurations shall conform to the general details indicated on the enclosed detail.
2. Pipe materials shall conform to specifications for polyvinyl chloride pipe (PVC) designation SDR35 or ASTM 304.
3. Pipe shall be either four (4") inch or six (6") inch diameter constructed on a minimum grade of $\frac{1}{4}$ " per foot or $\frac{1}{8}$ " per foot, respectively.
4. Construction may commence only after approval of a previously submitted Application For Connection and payment of the required tap fee currently set by the Board of Directors.
5. The "running trap and vent pipe" shall be located as close to the house as is practicable.
6. Inspection stacks must be installed per attached standard detail.
7. The PVC service sewer pipe shall be encapsulated in pea gravel, two (2#) pound crushed limestone, or firmly packed clean earth, with a minimum thickness of four (4") inches, four (4") inches under and over the pipe for the full width of the trench.
8. The Authority must be notified at least twenty-four (24) hours in advance of when an inspection of the constructed service sewer is desired. This inspection is required prior to backfilling excavated material.
9. The service sewer pipe, prior to actual connection with either the public sewer (Authority 's pipe) or the P-trap/vent, shall be air-tested by application of an internal pressure test at a pressure of five (5) pounds per square inch, the loss of which after ten (10) minutes of test duration (at five (5) psi) shall be required to be zero pounds per square inch.
10. The abovementioned air test is the customer's responsibility. The air test must be witnessed by the Authority Inspector.
11. After approval of installation and successful compliance with the internal air test, backfilling may be done and connection to both the Authority's sewer and the P-trap/vent outlet may be accomplished.
12. Failure to comply with the abovementioned air test and Authority inspection may result in the Authority requiring the backfilling to be excavated so that the testing and inspection can be performed to the Authority's satisfaction.
13. The Authority recommends that all abandoned septic tanks be emptied and filled with dirt or sand.
14. Monthly billing for sewage service shall commence the date the testing and inspection is performed.