



**CONNECTION TO SANITARY SEWER SYSTEM  
SPECIFICATIONS**

## CONNECTION TO SANITARY SEWER SYSTEM

The following specifications shall apply to all private service sewer line installations. All other requirements under Article IX of the Rules & Regulations shall apply:

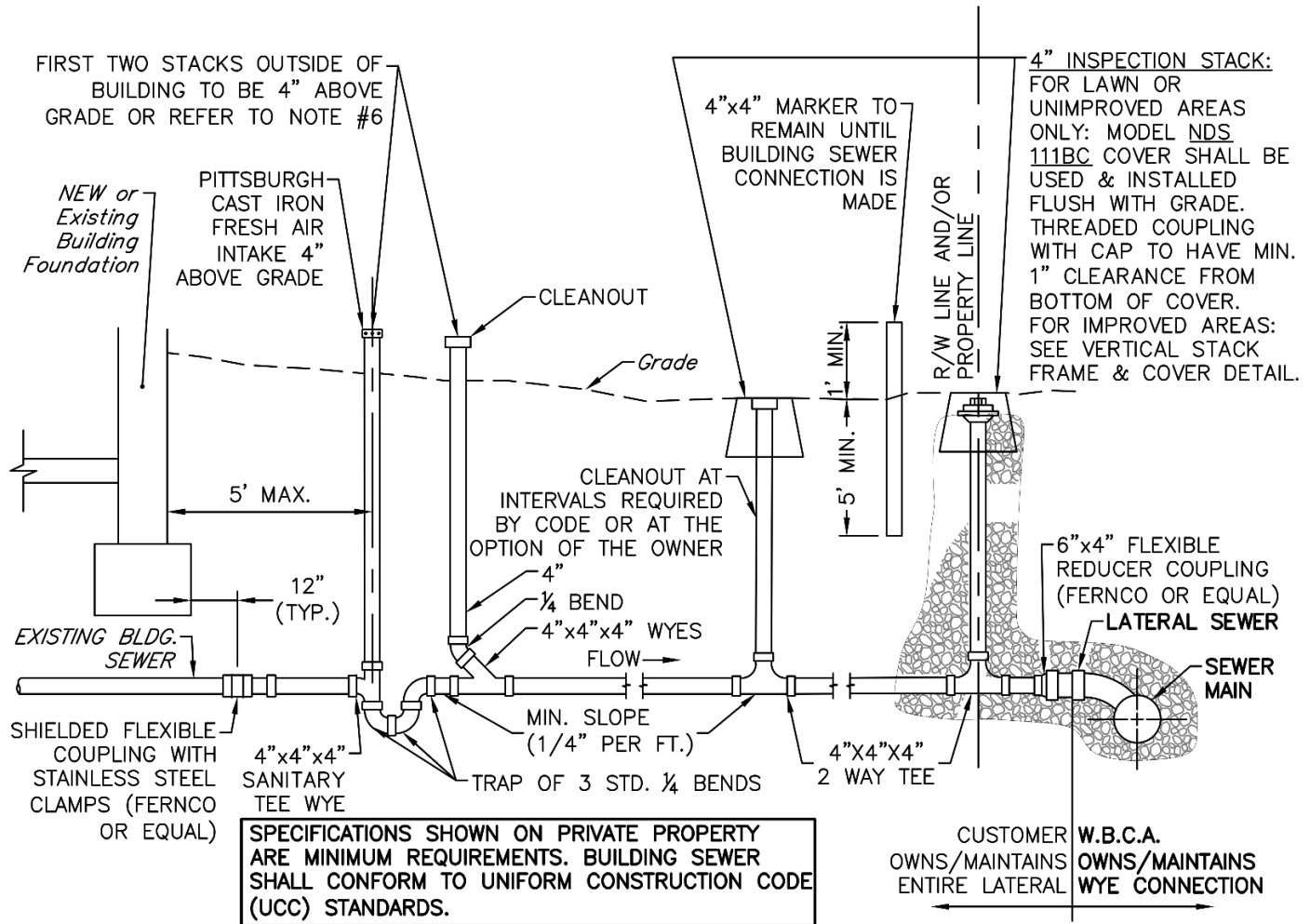
1. An application must be made prior to any work.
2. Applicant must provide all pertinent information on application form provided.
3. The proper fee must be paid prior to the issuing of a permit. The fee shall be based upon established tap fee charges at the time, as well as any applicable connection fee and/or customer facility fee. Current tap fee charges are based upon the number of equivalent dwelling units (EDUs) served. A single family home would equal one (a) EDU. Tap fees will be calculated per section 905.
4. Where public water is not applicable, the applicant must agree to install a water meter for the purpose of billing sewer service charges. The authority will assume all costs to install and maintain the water meter. The meter will be the property of the authority. If a customer should refuse the meter installation, the authority will estimate the usage based upon Pennsylvania Department of Environmental Protection consumption tables. Current table 73.17 identifies a home of 3 bedrooms or less as consuming 400 gpd, as such flows will be estimated at 12,000 gallons per month.
5. Deduct meter's cost, installation, setup, and coordination with WBCA are the responsibility of the homeowner, or their contractor. WBCA will acquire deduct meter reads on a monthly basis.
6. One full business days' notice is required before installation inspection is requested.
7. No pipe shall be covered without a visual inspection. Installer will be required to uncover any line not visually inspected. There will be no exception granted.
8. The authority has the right to refuse, delay or reschedule the inspection due to circumstances beyond its control.
9. Installer must comply with all safety requirements. Trench excavation shall be in strict accordance with OSHA regulations regarding the selection of I.) Sloping and benching systems 2.) Support, shield or other shoring type systems.
  - a. Western Butler County Authority waives any responsibility for the means, methods, and sequences of safety practices utilized by the installer.

10. All pipe shall be PVC schedule 40 or SDR 35 pipe. Both solvent welded and gasketed pipe is acceptable. **Foam Core and ABS pipe are not approved.** All exterior piping, including wall penetrating piece, is required to meet these standards.
11. All pipe shall be installed with a minimum slope required as stated in section 913 of the Manual of Procedures (quarter inch of fall per foot of pipe), and a minimum cover of 3 feet unless otherwise approved.
12. All pipe must be bedded with a minimum of 6 inches above pipe and 6 inches below pipe with clean gravel No. 8 (pea gravel), or No 67 (Crushed stone  $\frac{3}{4}$  inch or smaller). Gravel must be uniform, without fines or dirt. No other material is approved. Authority discretion may be used to determine additional gravel requirements in the case of unacceptable backfill. Gravel is also required to grade on vertical stand pipes.
13. Solvent welded (glued) pipe must be welded (cemented) with all weather PVC solvent resin Oatey No. 30893 Rain-R-Shine, or approved equal. This is a single component solvent with a blue color. Sufficient glue must be used to coat the entire joint. A visual sign of glue must be present on the outside edge of each joint. Where pipe is dirty, Oatey purple primer may be required.
14. Pipe must be inspected with all joints and main connections visible. Any Connection covered must be uncovered before inspection. It is recommended that lettering on pipe is easily visible from outside the trench to verify pipe specifications.
15. Trench must be free of ground water before and during installation.
16. Transition from six (6) inch to four (4) inch must be made with a shielded femco flexible coupling or schedule 35 bell and gasket reducer fitting.
17. An inspection stack shall be installed in the public right of way within twelve (12) inches of the property line. Inspection stack must be installed below grade, inspection stack protection must meet finished grade. Inspection stack must be protected from damage. Two-way tee must be installed.
  - a. Inspection stack in a paved or driveway area must be protected with a Neenah Foundry 1975 frame and cover (or approved equal)
  - b. Inspection stack in grassy or sidewalk area must be protected with a Zum Z1402 Heavy Duty Non Adjustable Floor Cleanout (or approved equal)
18. 90-degree elbows are not permitted. A long radius may be made with using two 45-degree fittings. Prior approval must be given. 22.5 and 45 degree PVC-DWV fittings are permitted. The number of fittings shall be minimized.

19. Trap and vent must be installed within five (5) feet of the building sewer. Vent pipe must have a cast iron cover equal to IC Philadelphia Vent Box J60004 manufactured by Jones Stephens Corp. Vent box may be referred to as a Pittsburgh air vent. Must be installed 4 inches above finished grade.
20. A cleanout with a removable screw cap must be installed on the sewer side of the trap assembly. Must be installed 4 inches above finished grade.
21. A cleanout shall be provided on the building sewer (see item 20). Additional optional cleanouts may be installed at the owner/contractor's discretion. Additional cleanouts must be installed below grade, additional cleanout protection must meet finished grade. Cleanout must be protected from damage.
  - a. Additional cleanouts in a paved or driveway area must be protected with a Neenah Foundry 1975 frame and cover (or approved equal)
  - b. Additional cleanouts in grassy or sidewalk area must be protected with a Zum Z1402 Heavy Duty Non Adjustable Floor Cleanout (or approved equal)
22. Installer is required to provide the homeowner and the Sewer Authority a drawing with pertinent information and reference points for future location.
23. Under no circumstance shall compacted earth be used to adjust pipe to grade due to over excavation. Installer is cautioned not to over excavate if possible.

**Revised 4/3/03**  
**Revised 11/4/05**  
**Revised 10/17/07**  
**Revised 12/7/07**  
**Revised 4/21/08**  
**Revised 10/1/11**  
**Revised 1/12/16**

**Revised 03/05/20**



SPECIFICATIONS SHOWN ON PRIVATE PROPERTY ARE MINIMUM REQUIREMENTS. BUILDING SEWER SHALL CONFORM TO UNIFORM CONSTRUCTION CODE (UCC) STANDARDS.

### BUILDING SEWER & LATERAL DETAIL

NOTES: NOT TO SCALE

1. BUILDING SEWER PIPE AND FITTINGS MUST BE BEDDED AND SURROUNDED WITH FIRMLY PACKED AASHTO No. 8, 57, OR 67 STONE. THE BEDDING SHALL EXTEND 4" MIN. BELOW PIPE. ALTERNATE MATERIALS MUST BE SUBMITTED TO THE AUTHORITY FOR APPROVAL PRIOR TO INSTALLATION.
2. BUILDING SEWER PIPE AND FITTINGS SHALL BE SCH. 40 PVC OR SDR 35, SOLVENT WELD OR GASKET APPROVED. IF SOLVENT WELDED (GLUED) OATEY NO. 30893 RAIN-R-SHINE OR APPROVED EQUAL SHALL BE USED; ALTERNATE MATERIALS SHALL BE SUBMITTED FOR APPROVAL.
3. DO NOT DEFLECT PIPE TO ACHIEVE REQUIRED SLOPE OR ALIGNMENT, UTILIZE REQUIRED FITTINGS.
4. ALL BACKFILL MATERIAL AND BACKFILL INSTALLATION PROCEDURES FROM WYE CONNECTION TO INSPECTION STACK TO CONFORM TO STANDARD LATERAL DETAIL.
5. BUILDING SEWERS SHALL BE INSTALLED AT A MINIMUM GRADE OF 1/4" PER FT.
6. IF ANY STACK MUST BE EVEN WITH FINAL GRADE, REFER TO AND UTILIZE VERTICAL STACK FRAME AND COVER DETAIL.
7. IT IS UNDERSTOOD THAT BUILDING SEWERS CAN EXIT ABOVE OR BELOW FOOTERS OR IN SOME CASES ABOVE FLOOR. ALL CASES ARE ACCEPTABLE.
8. NO BENDS GREATER THAN 45° WILL BE PERMITTED. ONLY 45° BENDS OR LESS.

THE DETAILS ON THIS SHEET PRESENT THE MINIMUM REQUIREMENTS FOR THE CONSTRUCTION OF WASTEWATER COLLECTION FACILITIES WHICH ARE TO CONVEY WASTEWATER TO AND THROUGH THE WESTERN BUTLER COUNTY AUTHORITY COLLECTION AND CONVEYANCE SYSTEM. THE SITE DEVELOPER'S DESIGN ENGINEER UTILIZING THESE DETAILS SHALL REVIEW THE DETAILS AND PRESENT ANY MODIFICATIONS NECESSITATED BY SITE CONDITIONS TO THE AUTHORITY FOR REVIEW. THE AUTHORITY NEITHER WARRANTS NOR GUARANTEES THAT THE DETAILS PRESENTED HEREIN ARE APPLICABLE TO ALL SITE CONDITIONS. THE USE OF THIS SHEET IN THE PROJECT'S CONSTRUCTION DOCUMENTS SHALL SIGNIFY THAT THE SITE DEVELOPER'S DESIGN ENGINEER HAS REVIEWED THE DETAILS AND FOUND THEM ACCEPTABLE FOR THE PROJECT.

**HRG**  
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**SANITARY SEWER  
 STANDARD DETAILS  
 FOR  
 WESTERN BUTLER COUNTY AUTHORITY**

PROJ. MGR. - CEH
DESIGN - CEH
CADD - JGPNASDMH
CHECKED - <i>CEH</i>
SCALE - AS SHOWN
DATE - MAY 2019

DRAWING NO.
<b>DT10</b>
PROJECT 007867.0000

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