

BERN TOWNSHIP

SEWER & WATER SERVICE REQUIREMENTS

1. Plumbing permit applications are dropped off and picked up at Bern Township Building.
2. **Plumbers are required to have a Plumbers License issued by Bern Township for the current year and Proof of Liability Insurance. Applications for the license are available at the Bern Township Municipal Building.**
3. Tapping fees must be paid and receipt shown when applying for permit.
4. Permit must be issued prior to commencing sewer and water connections. Permit fees are \$65.00 for water and \$65.00 for sewer, if performed separately, or \$70.00 if performed in combination. Re-inspections are \$55.00.
5. Inspections, including pressure testing, is required prior to backfilling the trench. Contact LTL Consultants at 610-987-9290 or 888-987-8886 to schedule inspections.
6. Details of sewer service standards and water service requirements are attached.
7. Any installation questions, contact LTL Consultants.

WATER & SEWER PERMIT APPLICATION

BERN TOWNSHIP:

Date of Application: _____, 20____

Permit Fee: \$ _____

Name of Applicant (Owner): _____

Address _____ Phone _____

_____ Zip Code _____

Name of Contractor: _____

Address _____ Phone _____

_____ Zip Code _____

Street Address of property: _____

Tax Map Parcel Number: _____

Check Appropriate Box:

Sewer Lateral

Water Lateral

Water & Sewer together

Non-Residential Application: Specify: _____

Permit for work not listed elsewhere

Does this project include a grinder pump? Yes/No

Statement of materials to be Used:

Water line _____

Sewer line _____

I hereby certify that the information hereon and herewith is true and correct to the best of my knowledge.

Applicant's Signature: _____ Date: _____

Permit No. _____ Issuance Date: _____

Approved by Inspector: _____ Date: _____

Signature

Bern Township

Public water supply hookup and testing requirements

All plumbing work must be performed by a Bern Township licensed plumber

P2903.7 Size of water-service mains, branch mains and risers.

The minimum size water service pipe shall be 3/4 inch. The size of water service mains, branch mains and risers shall be determined according to water supply demand [gpm (L/m)], available water pressure [psi (kPa)] and friction loss due to the water meter and developed length of pipe [feet], including equivalent length of fittings. The size of each water distribution system shall be determined according to the procedure outlined in this section or by other design methods conforming to acceptable engineering practice and approved by the administrative authority:

P2503.6 Water-supply system testing.

Upon completion of the water-supply system or a section thereof, the system, or portion completed, shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi (344 k Pa). The water used for tests shall be obtained from a potable water source.

P2604.1 Trenching and bedding.

Piping shall be installed in trenches so that the piping rests on solid and continuous bearing. When over excavated, the trench shall be backfilled to the proper grade with compacted earth, sand, fine gravel or similar granular material. Piping shall not be supported on rocks or blocks at any point. Rocky or unstable soil shall be over excavated by two or more pipe diameters and brought to the proper grade with suitable compacted granular material.

P2604.3 Backfilling.

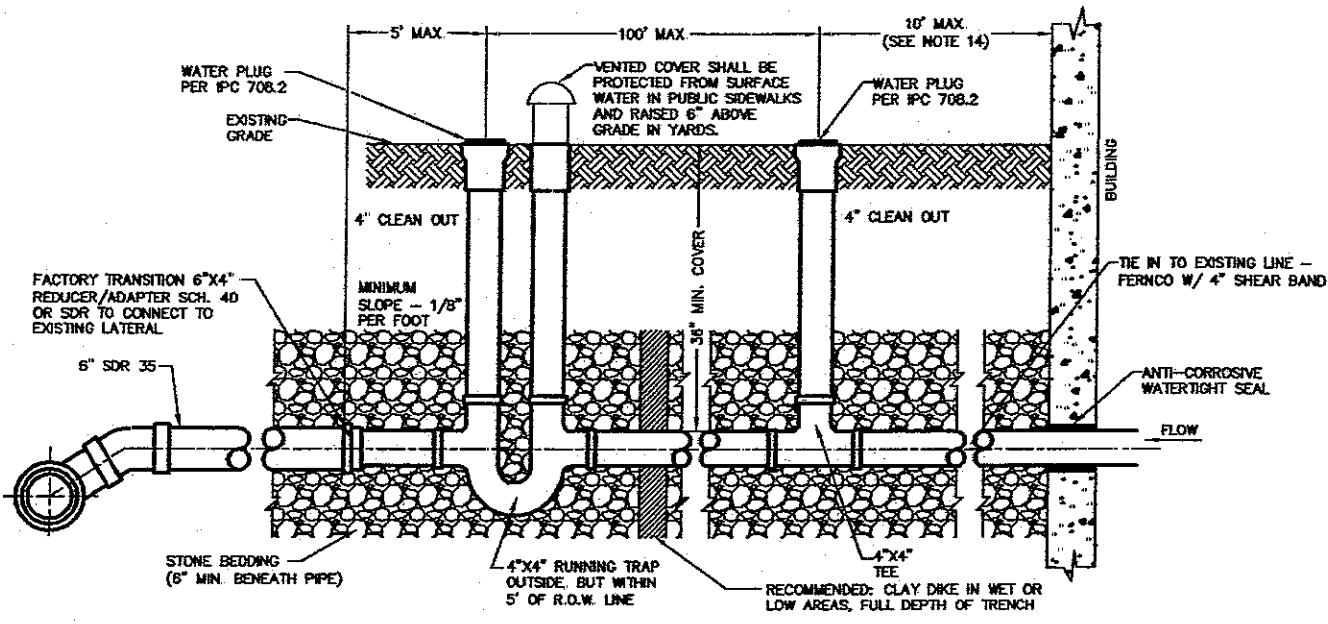
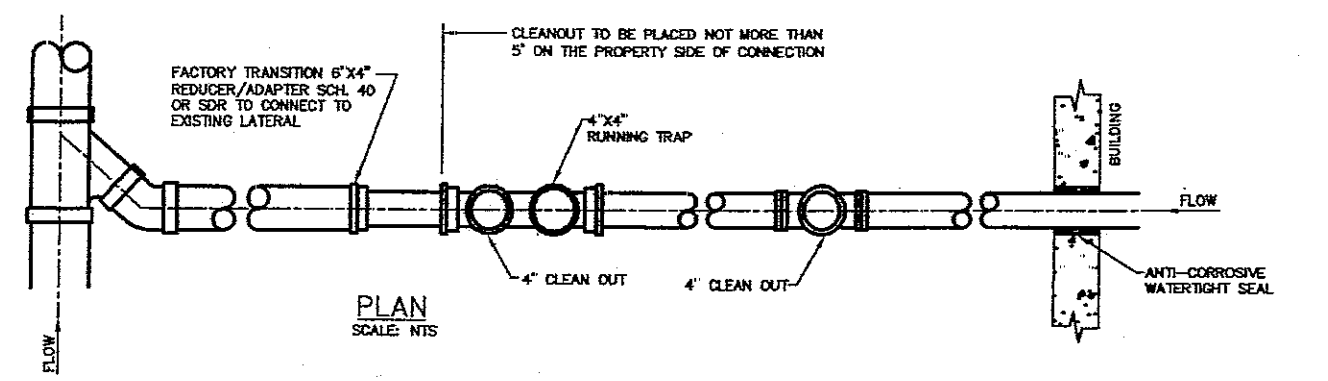
Backfill shall be free from discarded construction material and debris. Backfill shall be free from rocks, broken concrete and frozen chunks until the pipe is covered by at least 12 inches of tamped earth. Backfill shall be placed evenly on both sides of the pipe and tamped to retain proper alignment. Loose earth shall be carefully placed in the trench in 6-inch layers and tamped in place and contents and of sufficient width to prevent distortion to the pipe. Hangers and strapping shall be of approved material that will not promote galvanic action. Rigid support sway bracing shall be provided at changes in direction greater than 45 degrees for pipe sizes 4 inches and larger. 4. Piping shall be supported at distances not to exceed those indicated in Table P2605.1. **(Backfill containing limestone shall not be used)**

P2904.4 Water service pipe.

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in Table P2904.4.1. Water service pipe or tubing, installed underground and outside of the structure, shall have a minimum working pressure rating of 160 psi at 73_F (1100 kPa at 23_C).

P2904.4.1 Water service installation.

Trenching, pipe installation and backfilling shall be in accordance with Section P2604. Water service pipe is permitted to be located in the same trench with a building sewer provided such sewer is constructed of materials listed for underground use within a building in Section 3002.1. If the building sewer is not constructed of materials listed in Section P3002.1, the water-service pipe shall be separated from the building sewer by a minimum of 5 feet measured horizontally, of undisturbed or compacted earth or placed on a solid ledge at least 12 inches above and to one side of the highest point in the sewer line.

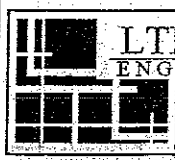


BUILDING SEWER PIPE	
MATERIAL	STANDARD
Cast-iron Pipe	ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F1488
Coextruded composite ABS Sewer and drain DR-PS in PSS5, PSS0, PS100, PS140, PS200	ASTM F1488
Polyvinyl chloride (PVC) Plastic pipe (Type DWV, SDR25, SDR35, SDR41, PS50 or PS100)	ASTM D 2565; ASTM D 2949; ASTM D 3034; ASTM F 891; CSA B182.2; CAN/CSA B182.4

- NOTES:
1. ALL CONSTRUCTION SHALL COMPLY WITH THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC) AND THIS DRAWING, AS A MINIMUM.
 2. BUILDING SEWER PIPE SHALL BE OF A MATERIAL LISTED IN THE ABBREVIATED TABLE ABOVE OR THE COMPLETE TABLE 702.3 (PAGE 52, 2003 IPC) WITH THE FOLLOWING EXCEPTION: WATER SERVICE PIPE IS PERMITTED TO BE LOCATED IN THE SAME TRENCH WITH A BUILDING SEWER, PROVIDED SUCH SEWER IS CONSTRUCTED OF MATERIALS LISTED IN TABLE 702.2 (PAGE 52, 2003 IPC).
 3. CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 100' APART IN HORIZONTAL DRAINAGE LINES OF 8" DIA. OR LESS, NOT MORE THAN 200' APART FOR LARGER DIA. PIPES, AT THE PROPERTY LINE OR CURB LINE, AT ALL CHANGES OF DIRECTION, AND A MAXIMUM OF 10' FROM THE BUILDING LINE. (INSIDE OR OUTSIDE)
 4. ON LOT SEWAGE DISPOSAL SYSTEMS SHALL BE ABANDONED. THE COVER SHALL BE REMOVED, THE TANK SHALL BE PUMPED AND FILLED IN W/ DIRT. THE NEW CONNECTION SHALL BE MADE AT THE BUILDING FOUNDATION.
 5. TESTING AND INSPECTIONS ARE REQUIRED AS PER IPC AND SHALL INCLUDE EITHER AN AIR TEST OF THE LATERAL AND CLEANOUTS AT 5 PSIG AIR PRESSURE FOR 15 MINUTES OR AT A MINIMUM OF 10 FT OF WATER HEAD FOR 15 MINUTES.

ELEVATION
SCALE: NTS

6. VENTS WILL NOT BE PERMITTED IN PAVED AREAS.
7. CLEANOUTS, VIEWPORTS AND TEST/RETEST TEES, IF PLACED WITHIN PAVED AREAS, SHALL BE PROTECTED FROM VEHICULAR DAMAGE BY LOCATING IN CAST IRON OR DUCTILE IRON FRAME AND COVER MARKED "SEWER".
8. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO MAINTAIN ACCESS TO VIEWPORTS AND TEST/RETEST TEES. ALL COSTS RELATED TO GAINING ACCESS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
9. PROVIDE STONE BEDDING AND CLAY DIKE AS SHOWN TO ENSURE SUPPORT OVER ENTIRE LENGTH.
10. PROPERTY OWNER SHALL BE RESPONSIBLE FOR SEALING THE LATERAL PENETRATION THROUGH THE BUILDING. THE TOWNSHIP SHALL NOT BE RESPONSIBLE FOR ANY GROUND WATER ENTERING INTO THE BUILDING.
11. CONNECTIONS SHALL BE MADE WITH COMPONENTS DESIGNED FOR THIS APPLICATION. TRANSITION FITTINGS SHOULD BE USED IN LIEU OF FERNCO'S FOR MOST APPLICATIONS.
12. NEW BUILDING PENETRATIONS SHALL REQUIRE PIPE SLEEVES/ ANTI-CORROSION SHEATHING.
13. ALL GREY WATER DISCHARGES ARE REQUIRED TO CONNECT TO THE BUILDING SEWER.
14. THIS CLEANOUT REQUIREMENT MAY BE MET WITH A CLEANOUT INSIDE THE BUILDING.
15. SUMP PUMPS MAY NOT BE CONNECTED. INSPECTIONS MAY OCCUR AT ANY TIME IN THE FUTURE TO CONFIRM THAT THEY ARE NOT CONNECTED.



LTL CONSULTANTS, LTD.
ENGINEERS & CODE OFFICIALS
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ONE TOWN CENTRE DRIVE
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TOLL FREE 1-888-987-8886
OLEY PA 1954
FAX (610) 987-9288

SHEET TITLE: TYPICAL SEWER SERVICE CONNECTION		REV. DATE: 01/10/07
PROJECT: BERN STANDARD DETAILS		PROJECT NO.: 0240-0601
PROJECT LOCATION: BERN TOWNSHIP, BERKS COUNTY		SHEET NO.: 01
DRAWN BY: AFC	APPROVED BY: CPP	SCALE: NTS

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Additional requirements

Electrical

Water copper water lines must be grounded within 5' of entering the building








A continuous bonding jumper is required at the water meter.

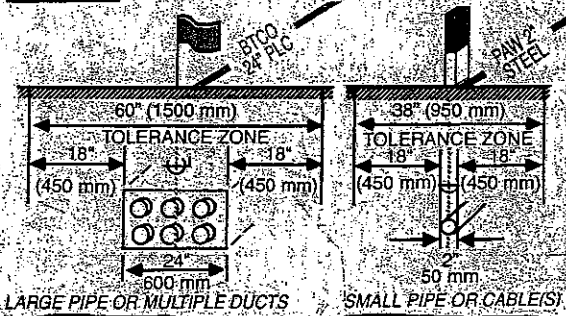
The grounding conductor shall be sized based on the amperage of the building service.

A plumbing permit is required and applications may be picked up at the Bern Township office.

All inspections will be conducted by LTL Consultants. Ph. #610-987-9290

**APWA / ULCC
TEMPORARY MARKING STANDARD**

-  **RED** - Electric Power Lines, Cables, Conduit and Lighting Cables
-  **YELLOW** - Gas, Oil, Steam, Petroleum or Gaseous Materials
-  **ORANGE** - Communication, Alarm or Signal Lines, Cables or Conduit
-  **BLUE** - Water, Irrigation and Slurry Lines
-  **GREEN** - Sewers and Drain Lines
-  **PINK** - Temporary Survey Markings
-  **WHITE** - Proposed Excavation (Required)



**STOP - CALL US
BEFORE YOU DIG
PENNSYLVANIA ONE CALL SYSTEM, INC.**

**1-800-242-1776
IT'S THE LAW
www.paonecall.org**

need 3 day notice!