Building Sewer and Connections

Information for Owners & Contractors

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- Application for Sewer Connection Permit

The information contained herein is for convenience purposes only. Applicants should refer to the Rules and Regulations of the Water Pollution Control Authority regarding the use of public sewer in the Town of Stonington

01/13/2010
BUILDING SEWERS AND CONNECTION

Responsibilities of Owner

No person may uncover, disturb, or make any opening into any public sewer without prior written authorization from the Water Pollution Control Director.

The owner or his agent shall file “Application for Sewer Connection Permit” at the office of the Water Pollution Control (WPCA). The application shall be supplemented by plans, specification, or other information considered pertinent in the judgment of the Director. A permit and inspection fee of $150.00 shall be paid when the application is filed.

If applicable, the Owner shall pay the Authority a Hook-up Charge as prescribed in Section 12.09 of the WPCA Rules and Regulations prior to being issued a Sewer Construction Permit.

All costs and expense incidental to the installation and connection of the building sewer shall be borne by the owner.

The installer shall hold a valid license appropriate to the work being done as required by the State of Connecticut Occupational Licensing Boards. The Application must contain the name and license # of installer, and a copy of the license made available to the WPCA Office.

All work shall be subject to inspection by representatives of the Water Pollution Control Authority. No work shall be backfilled or otherwise covered until inspected. The Contractor shall schedule his work so that inspections can be made during the hours of 7:30 a.m. to 3:30 p.m. weekdays, and shall notify the WPCA Office 48 hours prior to commencement of work. (860-535-5065)

All applicable laws, regulations, Building Codes, Public Health Codes, safety requirements and other rules pertaining to the construction of connections to the Town sewer shall be observed.

If any excavation is to be made in a Town street, all required permits and bonds shall be obtained from the Department of Public Works.
Specifications

General Requirements

1. No portion of any sewer may be located within 25 feet of a well. Any portion that is less than 75 feet from a well shall be comprised of extra heavy material as required by Connecticut Public Health Code (Ref. Sec. 10-13-B51d)

2. When plumbing of a building to be connected is not vented, or in the judgment of WPCA is inadequately vented, a house trap with cleanout and air vents shall be installed in accordance with applicable building codes.

3. Building sewers shall be not less than 4 inch diameter. Minimum grades shall be as follows:
   - 4” not less than ¼ inch per foot
   - 6” not less than ½ inch per foot

4. Insofar as possible, pipe should be laid to a straight line and grade. Long radius fittings must be used at changes in alignment. Fittings with bends exceeding 45° will not be allowed.

5. Cleanouts or manholes shall be installed at intervals not exceeding 100 feet. Manholes shall be constructed according to WPCA requirements. The WPCA may require locking and/or watertight covers.

Material and Installation Specifications


1.1 Sewer Pipe

Polyvinyl Chloride (PVC) Sewer (Gravity Flow). PVC sewer pipe shall be unplasticized polyvinyl chloride plastic gravity sewer pipe having integral wall bell and spigot joints. Pipe and fittings shall meet and/or exceed all requirements of ASTM Specifications D 3034, latest revision, SDR 35, Type PSM. All fittings and accessories shall be as manufactured and furnished by the pipe supplier and have bell and/or spigot configurations identical to that of the pipe.

1.2 Bedding

Gravel bedding for PVC sanitary sewer pipe including laterals, building sewers, and force main shall be three-quarter (¾) inch crushed stone. Crushed stone shall consist of hard, durable fragments of crushed rock and shall be free from clay, organic matter or other objectionable material. Crushed stone shall conform to the gradation table for three-quarter (¾) inch crushed stone as specified in Article M.01.01 of CT DOT Form 816.

01/13/2010
1.3 Filter Fabric

The fabric shall be non-rotting, acid and alkali resistant and have sufficient strength and permeability for the purpose intended, including handling and backfilling operations.

2. Construction Methods

2.1 Work on building sewers shall proceed from the sewer (or sewer lateral) toward the structure being connected. All pipes must be clean before placing. The trench shall be kept free of water, and in no event shall water or any foreign material be permitted to enter the pipe. Joints shall be assembled as prescribed by the manufacturer; suitable approved adaptors manufactured for the purpose shall be used when joining pipes of dissimilar size and/or material.

2.2 Pipe Bedding. A foundation of crushed stone shall uniformly support the entire length of each pipe segment. When material at the base of the trench is, in the sole opinion of WPCA, unsuitable as a foundation or if the excavation exceeds the desired depth, such material shall be removed and replaced with bedding conforming to the requirements herein.

2.3 Under no circumstances shall the trench be backfilled until the material at the base of the trench, pipe, joints, and workmanship have been inspected and approved by WPCA.

2.4 After the WPCA has inspected and approved installation and workmanship, the trench shall be backfilled to the crown of the pipe with the same material used for bedding after which sand or other approved material shall be hand placed to at least one (1) foot above the pipe. The remainder of the trench shall be backfilled with existing material or new material if existing material is in the sole judgment of the WPCA unsuitable. Material shall be evenly distributed in one (1) foot layers and tamped with suitable power tampers.

2.5 Detectable warning tape indicating sewer shall be placed in the trench approximately 24 inches above the pipe during backfilling.

2.6 It shall be the responsibility of the installer to investigate any existing plumbing and disconnect all unauthorized connections. Unauthorized
connections include roof drains, yard drains, cellar drains, cooling water, industrial waste, and all other sources of material that is not sanitary sewage.

2.7 All excavations shall be properly guarded with barricades and lights. Streets, sidewalks, and other public property shall be restored as directed.

2.8 Upon activation of the building sewer, any existing on-site septic tank or cesspool used for disposal of wastewater shall be decommissioned by emptying the contents and disposing of them in an approved manner. Each structure shall be broken in at the top and backfilled with clean material in a manner that prevents future settling.

**Protection of Water Supplies and Relation to Water Mains**

1. Relation to Water Supply Structures. Sewers shall be kept remote from public water supply wells or other potable water supply sources and structures, as required by Connecticut Public Health Code.

2. Horizontal Separation. Whenever possible sewers shall be laid at a minimum at least ten (10) feet, horizontally, from any existing or proposed water main. Should local conditions prevent this lateral separation, a sewer may be laid closer than ten (10) feet to a water main if:

   2.1 It is laid in a separate trench, or

   2.2 It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth, and

   2.3 In either case, the elevation of the top (crown) of the sewer is at least 18 inches below the bottom (invert) of the water main.

3. Vertical Separation. Whenever sewers must cross beneath water mains, the sewer shall be laid so that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be varied to meet this requirement, the water main shall be relocated to provide this separation. When it is impossible to obtain horizontal and/or vertical separation as stipulated herein, the sewer shall be encased with ductile iron (minimum class 150) or schedule 80 PVC sized at least 4 inches greater than the sewer pipe for a distance of at least 10 feet from each side of the water main (measured perpendicular to the water main). Each end of encasement pipe shall be sealed in a manner approved by the Director.

01/13/2010
M.01.01—Gradation table for sizes of crushed or broken stone, crushed and uncrushed gravel and reclaimed miscellaneous aggregate.

<table>
<thead>
<tr>
<th>Square Mesh Sieves</th>
<th>No. 3</th>
<th>No. 4</th>
<th>No. 6</th>
<th>No. 67</th>
<th>No. 8</th>
<th>Screenings</th>
<th>Dust</th>
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<tbody>
<tr>
<td>2 1/2&quot; (63 mm)</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>2&quot; (50 mm)</td>
<td></td>
<td>90-100</td>
<td>100</td>
<td></td>
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<tr>
<td>1 1/2&quot; (37.5 mm)</td>
<td>35-70</td>
<td></td>
<td>90-100</td>
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<td></td>
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<tr>
<td>1&quot; (25 mm)</td>
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<td>20-55</td>
<td>100</td>
<td>100</td>
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</tr>
<tr>
<td>3/4&quot; (19 mm)</td>
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<td>0-15</td>
<td>90-100</td>
<td>90-100</td>
<td></td>
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<td></td>
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<tr>
<td>1/2&quot; (12.5 mm)</td>
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<td>3/8&quot; (9.5 mm)</td>
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<td>20-55</td>
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<td>40-100</td>
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<tr>
<td>No. 16 (1.18 mm)</td>
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Reclaimed miscellaneous aggregate shall only be used where authorized in the specifications.
#306 Stonington St. - Smith

LATERAL CONNECTION - 5/28/92

6" PVC UPSTREAM
4" PVC UPSTREAM

4" PVC-D-3034 TRAP
WINGS & SCH 40 VENT

2" SCH 40 VENT PIPE
CAPPED FOR FUTURE PLUMBING

2" SCH 40 VENT PIPE
CAPPED FOR FUTURE PLUMBING

CRUSHED STONE BEDDING
INSTALLED IN AREA OF LATERAL
DUE TO GROUNDWATER

CONTRACTOR - XYZ Excavating
PLUMBER - Joe the Plumber
STONINGTON WATER POLLUTION CONTROL AUTHORITY
APPLICATION FOR SEWER CONNECTION PERMIT

OWNER:

OWNER ADDRESS:

ADDRESS OF CONNECTION:

Type of Use: Residential □ Commercial □ Industrial □

This is a connection for: one □ or more □ building(s).

The undersigned agrees to abide by all provisions of laws, ordinances and rules and regulations pertaining to Stonington sewers which are now in force or may be adopted in the future.

SIGNED: ____________________________ (OWNER) DATE: __________

SEWER CONTRACTOR: ____________________________ LICENSE #: __________

PLUMBER: ____________________________ LICENSE #: __________

 Permit Issued: Stonington WPCA Permit Number: __________

RECEIVED BY: ____________________________ DATE: __________ FEE RECEIVED: $ __________

Contractor's Statement: I will thoroughly investigate the existing plumbing at this location and will disconnect and properly divert all roof drains, yard drains, cellar drains, cooling water or other unauthorized connections to the sewer. I further certify that any necessary plumbing installation will be installed and will comply to the applicable codes of the Town of Stonington and the State of Connecticut.

CONTRACTOR'S SIGNATURE: ____________________________

PLUMBER'S SIGNATURE: ____________________________

—DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY—

INSPECTION RECORD: CONNECTION: Date Installs

START USE: Date Installs

# ______ SEPTIC TANK(S)/CESSPOOLS: PUMPED OUT AND FILLED IN Date Installs

FINAL INSPECTION AND ALL WORK APPROVED: ____________________________

COMMENTS: __________________________________________________________

______________________________________________________________________

______________________________________________________________________