



OFFICE OF
WASTEWATER COLLECTION
SUPERINTENDENT

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**Town of Abingdon
Wastewater Collection Department**

Sanitary Sewer System Construction and Connection Criteria

FOR COMMERCIAL OR RESIDENTIAL SEWER LINE EXTENSIONS

Sewer mains and appurtenant facilities shall be constructed in accordance with good engineering practice, and such other more specific standards and details as may be required by the Health Department or the Town Manager and adopted by the Town's Department of Public Works. However, in any case the following minimum criteria shall govern:

1. Minimum sewer main diameter shall be eight (8) inches. All new collector lines shall be connected at existing manholes or at new manholes constructed on an existing line.
2. Sewer main gradient shall provide a minimum velocity of two (2) feet per second and a maximum velocity of ten (10) feet per second. Laterals shall have a minimum slope of one fourth ($\frac{1}{4}$) inch per foot.
3. Pipe cover:
 - a. Sewer main – Four (4) feet minimum
 - b. Lateral – Three (3) feet minimum at the connection to the building sewer
 - c. Building sewer – Two (2) feet minimum at the connection to the building drain
 - d. Bedding with crusher run aggregate should be six (6) inches beneath the pipe and eight (8) to twelve (12) inches over top of pipe
4. Manholes shall be no more than four hundred (400) feet apart. Alignment shall be straight between manholes. Manholes are required at every change in pipe slope and horizontal deflection. End of line cleanouts are permitted on runs of three hundred (300) feet or less.
5. Laterals and building sewers shall be not less than six (6) inches in diameter if serving two (2) to four (4) dwelling units, nor less than four (4) inches in diameter if serving a single dwelling unit. Sewers serving more than four (4) dwelling units shall be a minimum of eight (8) inches in diameter.

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6. A cleanout shall be installed at the connection of the sewer lateral and the building sewer. The property owner or developer shall pay the cost of said cleanout.
7. No direct connections four (4) or six (6) inch laterals shall be made to a collector line twelve (12) inches or greater in diameter.
8. A backflow preventer shall be installed on all building sewers.

RESIDENTIAL AND COMMERCIAL CONNECTIONS

The following are general requirements for a building sewer connection from the customer's structure to the Town's lateral or line:

1. Materials (Pipe & Fittings) – Single-family residential (SFR) connections shall not be less than four (4) inch diameter, SCHEDULE 40, polyvinyl chloride (PVC). Commercial connections shall be (6) inch SDR-35, PVC, or larger diameter as required by the Town. Contact the Wastewater Collection Department if you are unsure about your installation or size requirements.
2. Backflow Valve – One backflow control valve is required to be installed as a part of the building sewer near the point where the sewer leaves the building structure and immediately upstream of the first cleanout. The backflow valve must be installed and maintained by the property owner or sewer customer and available for inspection during normal work hours.
3. Cleanouts (Access points to the line) – Cleanouts are to be placed (1) immediately outside the structure, (2) every 50 feet, (3) at direction changes 45 degrees or greater and, (4) at the junction of the building sewer (i.e. customer's lateral) with the Town's lateral.
4. Cover (measured from ground surface to outside top of pipe) – A minimum cover of two (2) feet is required. Under adverse circumstances a lesser depth may be permitted by the Wastewater Collection Department.
5. Inspection – The complete installation must be inspected and approved by the Town of Abingdon prior to being backfilled. Contact the Town's Sewer Superintendent at 628-4114 or 628-3167 for inspection.
6. Costs – The connection charges (tap fees) as prescribed by the Town of Abingdon and the cost of physical installation of the building sewer (from the customer's structure to the Town's lateral) are the responsibility of the customer/property owner.

**TOWN OF ABINGDON
CODE
CHAPTER 74, UTILITIES**

Sec. 74-33. Disturbing, interfering with sewage works.

Unless specifically authorized by the town, no person shall operate, disturb, connect, disconnect or otherwise interfere with any pipe, manhole or other part of the sewage works of the town, or remove or interfere with any light or barricade or other device maintained or operated in the construction, maintenance or repair of any part of such sewer system. (Amend. of 2-5-96)

The following policy will apply to all connections made to Town operated sewage collection systems:

In addition to current requirements all residential and commercial sewer connections made after September 1, 1996, shall be equipped with a back flow prevention device approved by the Town. The device shall be:

1. Installed in an accessible box or vault (in accordance with CABO or BOCA Plumbing Code)
2. Owned and maintained by the owner of the property it is intended to protect
3. Available for inspection during working hours
4. Located outside of the building immediately upstream of a cleanout

Within the guidelines above, the location of the device shall be at the discretion of the property owner or as recommended by his representative (building contractor, plumber, etc.).

Note: If the device is not properly installed or maintained by the owner, the Town shall not be responsible for any subsequent backups.

This notice is to be furnished to the owner or his representative at the time a connection is made or when a 'Permit – Installation of Building Sewer' is purchased.