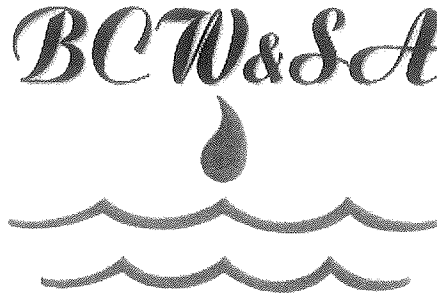


SEWER SPECIFICATIONS



Telephone: 215-343-2538

Toll Free: 800-222-2068

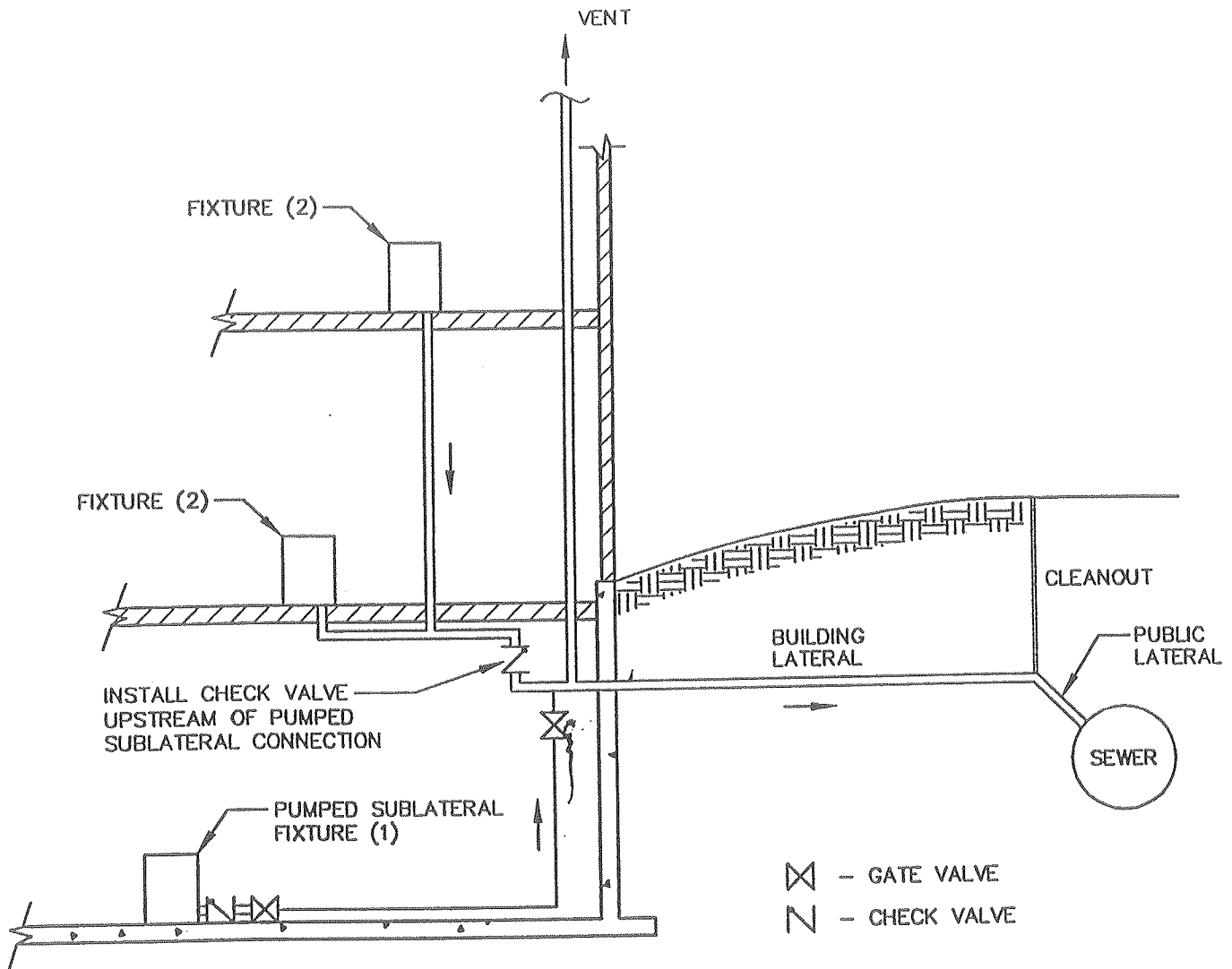
Fax: 267-200-0339

**BUCK COUNTY WATER & SEWER AUTHORITY
1275 ALMSHOUSE ROAD
WARRINGTON, PA 18976**

9.05 CONNECTIONS BELOW THE SEWER LATERAL ELEVATION

- A. It shall be prohibited to connect any plumbing fixture, appliance or equipment to a sanitary sewer lateral if the outlet of such facility is located below the centerline elevation of the lateral. Such facilities (herein referred to as "sublateral facilities") may only be connected to the sewer system if approved by the Authority and its Engineer.
- B. The BCW&SA shall not be responsible for loss of or damage to the property, nor of injury to persons, on account of sewage backup through sublateral facilities, regardless of how such facilities have been installed. BCW&SA strongly discourages this type of installation and has adopted the following conditions in an effort to reduce the risk of a sewer backup. The BCW&SA neither represents nor warrants that adherence to these conditions will prevent any sewage backup.
- C. The customer must apply for and receive a Sublateral Facilities Permit before installing any sublateral facility. Plans of the proposed installation must be submitted to and approved by the BCW&SA. A plan review fee, as established from time to time, shall be charged to the customer by the Authority.
- D. Sewage grinder pump systems, and other sublateral facilities, shall conform in all respects to the BOCA/ National Plumbing code, most recent edition or the edition in effect for the governing municipality.

- E. The sublateral facilities and/or grinder system shall conform to the following technical requirements, as depicted in Standard Detail S-30, and as approved during the plan review process:
1. All piping below the building sewer lateral shall be vented as required for a gravity system.
 2. Each sublateral facility shall be equipped with a check valve and two isolation valves upstream of the connection to the building lateral. One isolation valve and the check valve shall be in close proximity to the fixture, and the second isolation valve shall be next to the point of connection to the building lateral.
 3. If more than one sublateral facility and/or grinder pump system is to be used for single building, a single connection to the building lateral will be allowed provided that each facility/grinder pump has a check valve and isolation valve, all upstream of the junction with the discharge from the other sublateral facilities/grinder pumps. In addition, a separate isolation valve shall be installed between this junction and the building lateral.
 4. Fixtures (e.g., washing machines and toilets) to be installed below the elevation of the sewer lateral, and not draining to a grinder system sump, may be allowed provided that each such fixture has sufficient pressure to discharge above the building lateral and is equipped with an individual pump and valve(s) conforming to these conditions.
 5. Under no circumstances shall a vent for any sublateral facility be connected to the building's sanitary sewer lateral. Vent sizes for each grinder pump sump shall be determined in conjunction with pump capacity, as prescribed by the BOCA National Plumbing Code. No vent or air inlet shall be located within ten feet of any building door, window or fresh air intake.
- F. In addition to the required sublateral facility components described herein, a check valve shall be installed in the building plumbing or sewer lateral (as appropriate) immediately upstream of the connection from a pumped sublateral fixture. This is to prevent pressurized sublateral flows from being forced into gravity fixtures located above the elevation of the lateral. Where two or more sublateral fixtures connect to a lateral, a single check valve upstream of the most upstream sublateral connection will be allowed.
- G. The plumber or contractor who will install the sublateral facility or grinder system must first obtain a copy of the BCW&SA Advisory memorandum, and all other pertinent codes and details, that describe the required methods of installation.



NOTES:

- (1) Pumped sublateral fixture (washing machine, toilet or enclosed grinder pump unit).
- (2) Above-lateral fixtures discharging to a point above the lateral.
- (3) All installation work shall conform to BOCA and local plumbing codes.

**GENERAL ELEVATION FOR CONNECTION OF PUMPED SUBLATERAL FIXTURES
(DISCHARGING BELOW THE SEWER LATERAL)**

CE CARROLL ENGINEERING CORPORATION
CONSULTING ENGINEERS
WARRINGTON, PA

**SERVICE CONNECTION FOR
SUBLATERAL FACILITIES**
MADE FOR
BUCKS COUNTY WATER AND SEWER AUTHORITY
SITUATED IN
BUCKS COUNTY, PENNSYLVANIA

DATE 4-20-00
JOB NO. 00-2249.00
SCALE N.T.S.
DWG. NO. DETAIL S-30