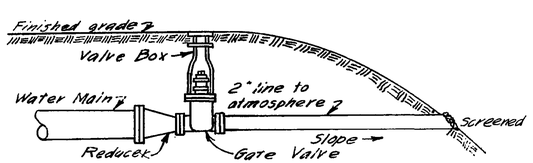
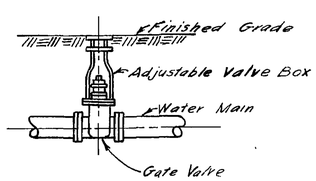
Required:
1-4" to 2" reducer
1-2" gate valve
2" line to atmosphere screened

Notes:

1. The water main shall be constructed of thermoplastic tubing or pipe approved equal.
2. The thermoplastic tubing shall be Class 160 NSF Potable Water rated with a strength of 500 p.s.i. under standard AWWA test procedures. Tubing shall have a uniform wall thickness and dimensions such that it can be adapted for use with standard water flow or compression type fittings. Tubing shall be clearly marked to show Potable Water, Class, Size and Manufacturers name.
3. Water lines shall be laid at least ten feet horizontally from a sanitary sewer, storm sewer, or manhole, the distance shall be measured edge to edge of pipe. When crossing a sanitary or storm sewer is necessary there shall be a vertical separation of 18" between bottom and top of the pipes. The length of the water line shall be centered at the point of the crossing so that joints shall be equidistant and as far as possible from the sewer. Adequate structural support shall be provided to prevent deflection or joint seperation or the sewer or water main.
4. All material, Construction, etc. shall meet all current specifications and requirements of The Virginia Department of Health.
5. All water main shall be tested at 2 times the working pressure & there shall not be any leakage.
6. The water main shall be disinfected by placing Calcium Hypochlorite Tablets at the following rate per 100 lineal feet of water main; 0.09 pounds in 6" main, 0.05 pounds in 4" main, and 0.03 pounds in 3" main. The tablets shall be placed in each section of pipe also in hydrants, hydrant branches and other appurtenances. All the tablets within the main must be attached to the top of the main with Permatex No. 1 as manufactured by the Permatex Co., Brooklyn, New York, or approved equal by the engineer. The water main shall be filled slowly not exceeding 30 g.p.m. and left stand for 24 hours, then the line shall be flushed at 60 g.p.m. until all the chlorine has been removed. After all the chlorine has been removed, 2 samples shall be collected 24 hours apart from the end of each line and tested for bacteriological quality and show the absence of coliform organisms before the line is put in service.
7. All water mains shall have a minimum cover of 3'0". A continuous and uniform bedding shall be provided in the trench to all buried pipe. Stones and rocks found in the trench shall be removed for a depth of at least 6" below the bottom of the pipe and tamped selected fill material provided. After the pipe has been placed in the trench, the trench shall be backfilled with selected material thoroughly compacted using care not to damage the pipe.
8. No fire hydrant shall be installed on any water main less than 6" in diameter.



BLOWOFF
Not to Scale



VALVE INSTALLATION
Not to Scale

Prepared by:
William L. Law, Civil Engineer, Va. Cert. No. 1296
Route 1, Box 420, Bassett, Virginia 24055
February 24, 1979

WATER SYSTEM
to serve
WATER FRONT SECTION 3
owned by
BREMBLE PROPERTIES, INC.
GILLS CREEK MAG. DIST.
FRANKLIN COUNTY, VIRGINIA

Scale: 1 inch = 50 feet

COMMONWEALTH OF VIRGINIA
WILLIAM L. LAW
CIVIL ENGINEER
CERTIFICATE No. 1296
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Revised August 28, 1979 Sheet 1 of 4