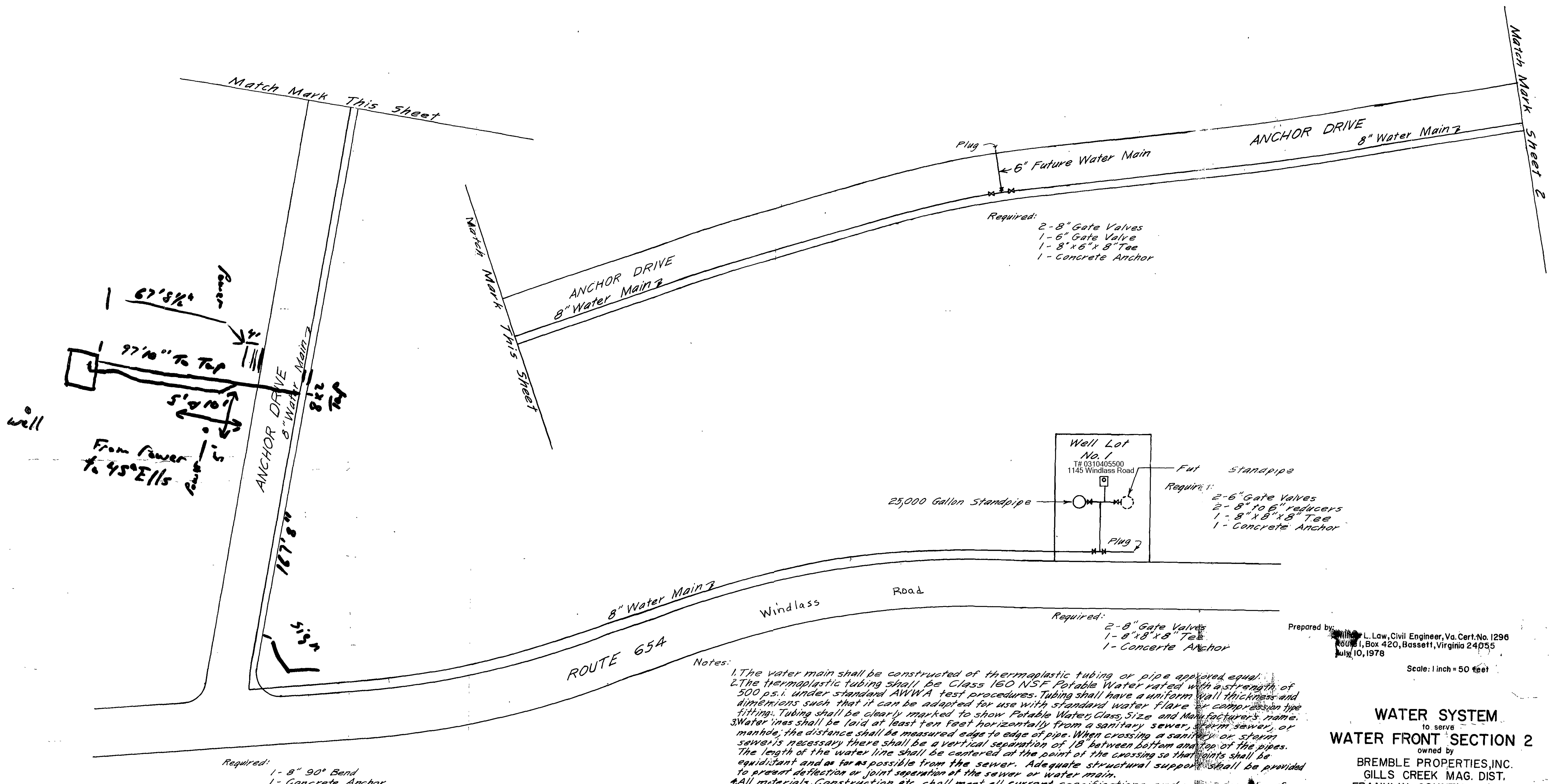

Notes:

1. The water main shall be constructed of thermaplastic tubing or pipe approved equal.
2. The thermaplastic 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 flare or compression type fitting. Tubing shall be clearly marked to show Potable Water, Class, Size and Manufacturer's 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 of the sewer or water main.
4. All materials, Construction, etc. shall meet all current specifications and requirements of The Virginia Department of Health.
5. All water mains 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 rates per 100 lineal feet of water main; 0.13 pounds in 8" main, 0.09 pound 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 and 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, Brookin, New York, or approved equal by the engineer. The water main shall be filled slowly not exceeding 30 g.p.m. and let stand for 24 hours; then the line shall be flushed at 60 g.p.m. until all the chlorine has been removed. 2 samples shall be collected from the end of the lines and tested for bacteriologic quality and show the absence of coliform organisms before the line is put in service.
7. No fire hydrant shall be installed on any water main less than 6" in diameter.
8. All water mains shall have a minimum cover of 3'-0". A continuous and uniform bedding shall be provided in the trench for 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 bedding provided. After the pipe has been placed in the trench, the trench shall be backfilled with selected material thoroughly compacted using care not to damag the pipe.

DESIGN DATA

200 gallons storage per connection
Estimated consumption 400 gallons per connection
Fire flow of 700 gallons per minute for 35 minutes.
Minimum pressure at all connections 20 p.s.i.
58 connections plus 22 Town Houses for a total of 80.
Additional wells shall be drilled as needed to maintain a supply of ½ g.p.m. for each connection.

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

July 10, 1978

Scale: 1 inch = 50 feet

WATER SYSTEM

to serve

WATER FRONT SECTION 2

owned by

BREMBLE PROPERTIES, INC.
GILLS CREEK MAG. DIST.
FRANKLIN COUNTY, VIRGINIA

Commonwealth of Virginia
William L. Law
Civil Engineer
Certificate No. 1296
Certified Professional Engineer

Revised Jan. 15, 1979

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