

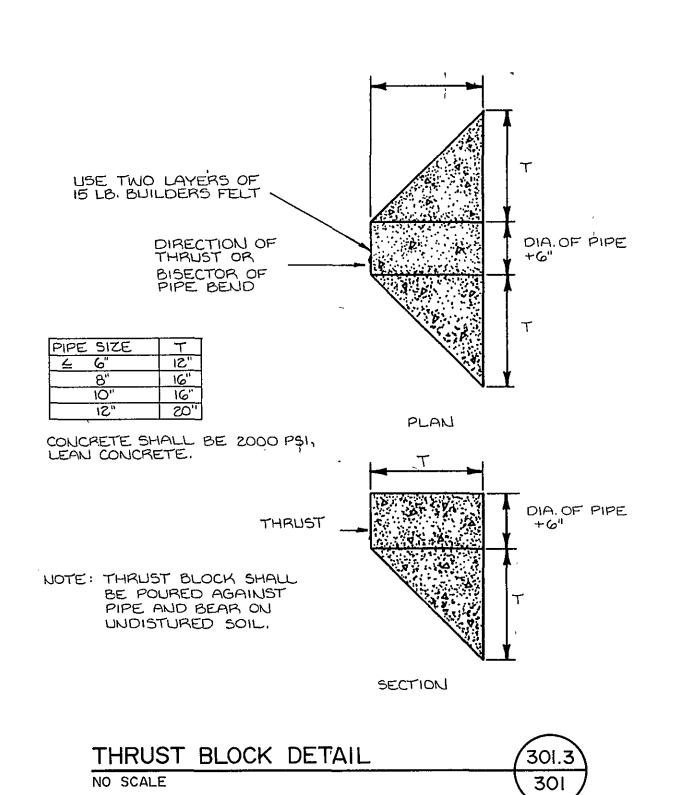
TYPICAL GATE VALVE INSTALLATION 301.1
NO SCALE 301

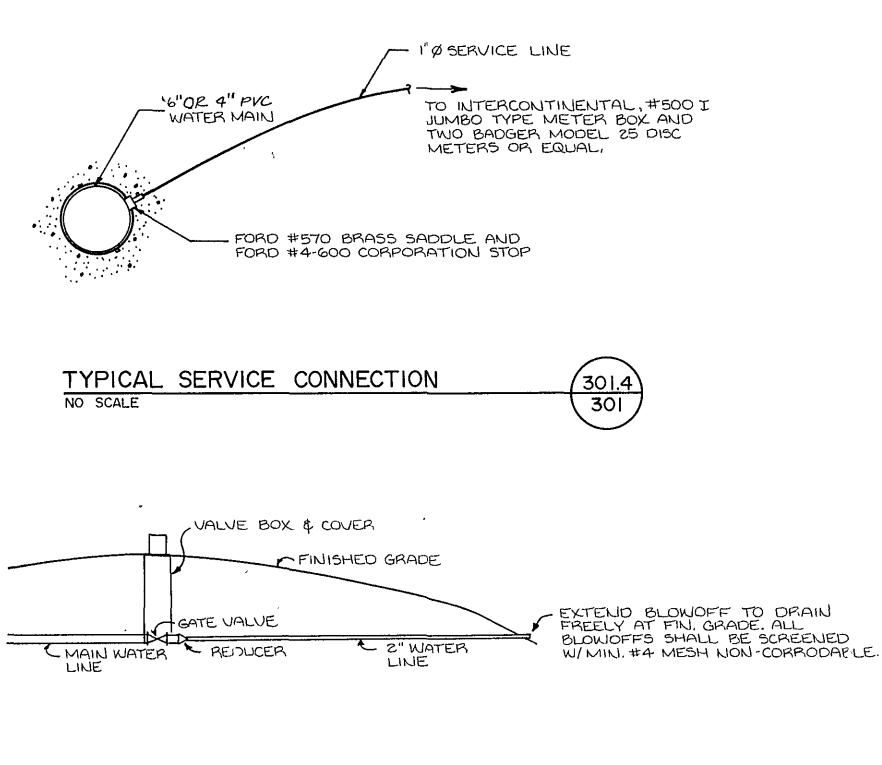
TYPICAL BLOWOFF DETAIL

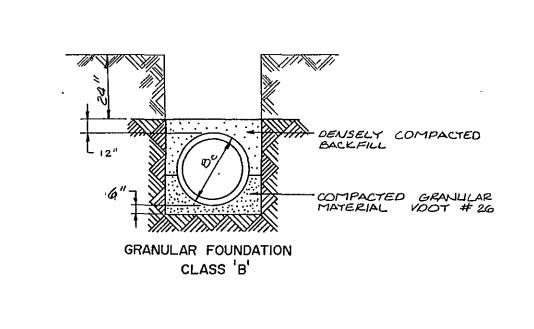
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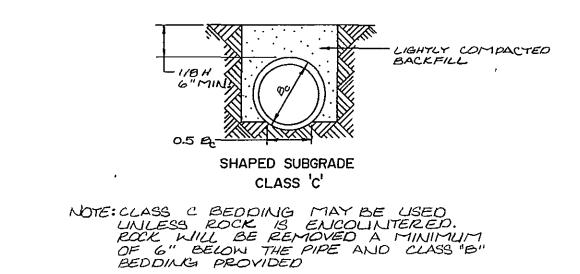
TYPICAL FIRE HYDRANT CONNECTION
NO SCALE

301.2 30I









- Notes:

 1) All water mains shall be PVC, SDR-21, from pipe size, 200 psi rated with integral bell and gasketed joints. All pipes shall beat the MSF-PW symbol to be utilized for potable water use.
- 2) All valves 3 inches and larger shall meet AWWA C-500 standards, double disc gate valves, Kennedy #571-x or equal. Valves 1 inch and smaller shall be bronze body, threaded ball valves with Teflon seats and seals, lever handle, Apollo #70-100 Series or equal.
- 3) All valve boxes shall be two piece, cast iron adjustable screw-type with lid marked "water".
- 4) All water lines shall be located a minimum of 30 feet from subsurface drain fields.
- 5) Maintain a vertical separation of at least 18 inches between water lines and sewer lines. where water lines pass beneath sewer lines, adequate structural support must be provided to prevent settlement of the sewer line onto the water line.
- 6) Blowoffs shall be installed at all deadends if a hydrant is not provided.
- 7) All water lines shall be disinfected by means of the "tablet" or "continuous feed" method per the Virginia Department of Health's regulations.
- 8) Any stone and/or rock encountered in trench shall be removed to 6-inches

below the water line for Phase I - Blockwoter Circle.

A. TABLET METHOD

This method shall not be used if nonpotable water or foreign materials have entered the lines or if the water temperature is below 5° C $(41^{\circ}F)$.

The tablets shall be placed in each section and in all appurtenances. Enough tablets shall be used to insure that a chlorine concentration of 25 mg/l is provided in the water. They shall be attached by an adhesive to the top of the pipe sections and crushed or rubbed in all appurtenances. The adhesive shall be acceptable to the Bureau. The velocity of the potable water in the pipe line shall be less than 1 ft./sec. The water shall then remain in contact with the pipe for 24 hours. All valves and appurtenances shall be operated while the chlorinated water is in the pipe line.

CONFINUOUS FEED METHOD

Potable water shall be introduced into the pipe line at a constant flow rate. Chlorine shall be added at a constant rate to this flow so that the chlorine concentration in the water in the pipe is at least 50 mg/l. The chlorinated water shall remain in the pipe line at least 24 hours, after which the chlorine concentration in the water shall be at least 10 mg/l. All valves and appurtenances shall be operated while the chlorinated water remains in the pipe line.

301.5 301 TRENCH BEDDINGS DETAIL 30I.6 30I



1116 SOUTH MAIN STREET BLACKSBURG, VIRGINIA 24060

(703) 552-5548

Designed KEM

Drawn SEL

Drawn SEL
Checked PBH

Scale NO SCALE

Job No. 10979

Date APR. 8, 1988

THE WATER'S EDGE WATER DISTRIBUTION SYSTEM

DETAIL SHEET

| I REVISED | 5/6/88 KEM | O DESIGN ISSUE ▼ 4/8/88 KEM | Date | By

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File No.