Booster pumps shall be housed in a weather-tight structure, of which Company has a standard design. Provisions within this structure shall be made to facilitate removing of pumps, motors and other equipment.

1.06 PIPELINES

The minimum sized pipeline within the domestic water system shall be eight inches (8") inside diameter. The minimum pressure class shall be 150 pounds per square inch (psi) as determined by AWWA Standards for domestic water service.

Water mains to be installed shall be 8", 12", 16", 18", 20", and 24". 6" diameter pipe may be used when no fire hydrants are connected to the main and only with the written approval of the Company.

Maximum velocity in a pipeline during a peak hour period shall be five (5) feet per second. When fire flow occurs during the maximum day, the maximum velocity shall be ten (10) feet per second, with a residual pressure of twenty (20) psi during fire flow conditions. Capacity of water mains shall be determined by using the Williams & Hazen Formula with a "C" value of 120.

OPERATING PRESSURE

The maximum pressure within the pressure system shall be 125 psi and the minimum pressure shall be 25 psi during peak hour flows.

DEPTH OF COVER

A minimum depth of cover is required from top of the pipe to the proposed finished grade. If sub-grade base is required, the cut for the base shall be added to the minimum cover. Minimum cover for pipelines shall be as follows: pipelines up to 8 inches in diameter shall have a 36 inch cover; 12 inch and larger pipelines shall have a 42 inch cover. Sub-grade on pipelines is to be maintained on pipelines at all times.

LOCATION AND ALIGNMENT

Whenever possible, domestic water mains shall be located in public streets parallel to street centerlines. On a typical road section the main shall be located 6 feet off curb face on the south or west side of the street. Non-potable water mains shall be located 5 feet minimum from the domestic water main and five feet from the sewer main.

CLEARANCE FROM SEWER LINES

A minimum horizontal clear distance of 10 feet shall be provided between domestic water mains and sewer lines. A minimum vertical distance of 1 foot shall be provided with the sewer under the domestic water line. Water service laterals shall be a minimum of 5 feet from the sewer lateral horizontally and 1 foot minimum above sewer laterals. If the above conditions can not be met, special construction shall be required and approved by Riverside Highland Water Company.