RIVERSIDE HIGHLAND WATER COMPANY

DESIGN CRITERIA

DOMESTIC WATER SYSTEM

1.01 GENERAL

The domestic water system shall be designed to provide adequate water service during the peak hour of the maximum day during the maximum day plus fire suppression flows. The design locations of minimum service will be the most remote and highest elevation in the prespective pressure zone. To establish this level of service, the following criteria are used.

1.02 WATER REQUIREMENTS

• Average daily water requirement per person	175 Gallons
• Average daily water requirement per commercial area	4,000 Gallons per gross acre
• Maximum day of maximum month demand	2.0 x average day
• Peak hour of maximum day	4.0 x average day
• Equivalent Dwelling unit (EDU)	One single family unit
• Occupancy per EDU	3.0 people
• Water source supply	1.33 times the maximum day

1.03 WATER STORAGE REQUIREMENTS (RESERVOIR SIZING)

Reservoirs will be designed to contain water to meet the fire flows and other domestic water requirements in each independent pressure zone.

• Equalization storage	0.40 x maximum day
• Emergency storage	1.0 x average day
• Fire flow-Residential (minimum)	1,500 gpm for 2-hours
• Fire flow-commercial (minimum)	2,500 gpm for 3-hours