

4.0 Working With the Irrigation System

The rainwater system is designed to integrate seamlessly with existing irrigation system technology. Unlike other rainwater systems on the market, the Smart System does not require proprietary controllers, valves or drip equipment to be used for the irrigation system.

The System supplies a constant pressure of 50-70 psi at a maximum flow of 15 GPM to the drip irrigation system. If a single zone exceeds 15 GPM, divide the zone into 2 zones.

4.1 Irrigation Controller Compatibility

The Smart Rainwater System is compatible with all brands of irrigation controllers including smart controllers.

4.2 Irrigating Non-Rainwater Zones

Some zones of irrigation shall never be supplied by rainwater due to code restrictions or health and safety concerns. All non-rainwater zones shall be supplied by a secondary mainline which supplies only makeup water (figure 1). Makeup water can be potable domestic water, well water or another water source. Specific non-rainwater zones include:

- **Spray Irrigation:** Rainwater cannot be sprayed through the air. All rainwater shall be applied through sub-surface drip irrigation (or other method) buried 2" deep under soil or mulch, per CA code requirements.

4.3 Hose Bibs

Because rainwater is non-potable, hose bibs should not be installed on the non-potable mainline where children may access the water.



NOTE

Hose-bibs shall be installed on the secondary mainline only (figure 7) or installed directly off the makeup water supply

4.4 Other Irrigation Considerations

Irrigation Valves, Filters, Pressure Reducers & Piping

Standard irrigation valves may be used with the rainwater system. 100-micron drip filters shall be installed on irrigation valves as is typical. Pressure reducers shall be installed on irrigation valves as is typical.



NOTE

Install purple piping, valve boxes, and purple tags on irrigation valves to indicate a non-potable irrigation system

Dripperlines, emitters, bubblers, ect.

All rainwater must be dispersed subsurface 2" below soil or mulch. Standard emitters and dripperline from any of the large manufactures (Netafim, Hunter, Rainbird, ect.) are satisfactory to use with rainwater. Bubblers may be used if they are located below ground in a small valve boxes.



NOTE

Rainwater shall be applied through subsurface methods only (drip, bubblers, ect) and shall never be sprayed through the air.

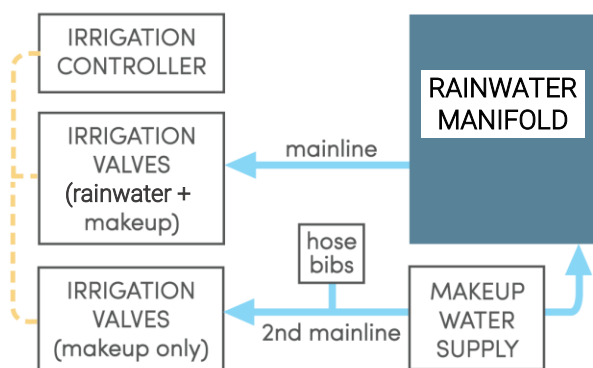


Figure 1