

**CITY OF KIRKLAND**123 FIFTH AVENUE • KIRKLAND, WASHINGTON 98033-6189 • (425) 587-3800

---

**DEPARTMENT OF PUBLIC WORKS  
PRE-APPROVED PLANS POLICY****Policy W-2: IRRIGATION SPECIFICATIONS FOR CITY MAINTAINED SYSTEMS**

When an irrigation system is to be installed in the public right of way, whether in conjunction with a Capital Improvement Project or by Private Development, and that system is to be maintained by the City of Kirkland, the following specifications will need to be incorporated into the design of the system:

- *Pipe, Tubing and fitting* – All pipe and tubing shall be ¾" to 1" schedule 40 PVC or approved equal (all piping in median islands to be 1"). All fittings shall be schedule 80 PVC. All sleeving shall be 2" schedule 40 PVC. 1" water service lines shall use ¾" meter unless otherwise approved.
- *Polyvinyl Chloride Pipe and Fittings* – Pipe shall be schedule 40 PVC pipe for the main, laterals and sleeves.
- *Automatic Controller* – Battery operated controller shall be Nelson Model 8030 with adapter for Weathermatic. If using a fixed controller with a designated power source supply, a Weathermatic Smartline controller shall be used. When possible, a Slw 10 weather station should also be installed. Controller shall be operable and fully functioning prior to final inspection.
- *Sprinkler Heads* – Pop-up spray heads, impact heads and bubblers shall be Hunter or approved equal. If installed along curbing, heads shall be flush and adjacent to top of curb. Nozzles shall be MP rotators.
- *Valve Boxes and Protective Sleeves* – Valve boxes for control valves shall be Carson 1419 Box, with locking lid or approved equal. Valve boxes for double check valve assembly shall be Carson 1324 with locking lid, or approved equal.
- *Automatic Control Valves* – Automatic control valves shall be Weathermatic 2100 series.
- *Quick Coupling Equipment* – Quick coupling equipment shall be Rainbird #44DLRC or approved equal.
- *Irrigation Service* – The Contractor shall install the appropriate size water service to meet the design of the system. The service shall be installed per specifications outlined in the current edition of the Public Works Department Pre-Approved Plans Manual. The Contractor shall coordinate with the City of Kirkland Public Works Department for the installation of the water meter (fees may apply).
- *Coverage* – There shall be full, uniform, and complete coverage of irrigation area and coverage test shall be performed under automatic operation.
- Appropriate backflow devices and or Pressure Reducing valves will be installed according to the latest version of the *Uniform Plumbing Code* as adopted by the City of Kirkland Building Department.