

# City of Ontario

## Irrigation Equipment List for City maintained areas

(Approved by the Parks and Maintenance Dept. 9/22/14)

### Heads and Nozzles

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Rotors	Rainbird
Rotary Nozzles	Hunter MP Rotator on Rainbird pop-ups
Micro Spray Nozzles	Rainbird SQ Series
Spray Nozzles	Rainbird – for existing sites to match existing
Pop-up bodies	Rainbird 1800 Series SAM check valve. 6” pop-ups in turf and car overhang areas, 12” pop-ups in shrub areas Rainbird 1800 SAM-PRS-45 pressure regulation 6” pop-ups in turf and car overhang areas, 12” pop-ups in shrub areas when using Hunter MP Rotators
Tree Bubblers	Rainbird 6” pop-up stream bubbler 5Q-B, 5H-B or 5F-B for larger tree box sizes. Rainbird RWS-M-B-1402 or 1404, 4”x18” deep For use only in planter areas less than 5’ wide, such as tree wells or median noses to prevent overspray. <ul style="list-style-type: none"><li>• No bubblers at individual shrubs to avoid over watering.</li></ul>

### Low Volume Irrigation

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Driplines	Netafim or Rainbird, for narrow areas 10’ wide or less, bury 2” deep
Drip valves	Rainbird XCZ-075-PRF for ¾”, XCZ-100-PRB-COM for 1”, XCZ-PRB-150-COM for 1 ½”
Flush valves	Plastic ball valve
Air Relief Valves	Rainbird ARV050

### Standard Equipment – paint brass equipment with green paint for metal to avoid theft

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Valves	Rainbird EFB-CP-R, Brass only (add PRS-D for pressure regulation) (Dirty water valves for recycled water use)
Master valves	Superior 950DW for 1 ¼” and smaller Superior 3200 for 1 ½” to 3”, Griswold 2030 4” and larger. Brass only Low Power Solenoid and Epoxy Coated (Dirty water valves, normally closed, for recycled water use) Master valve to be installed with a union
Flow sensors or meters	Calsense controller

Quick couplers	Rainbird 33-LRC 3/4" with locking rubber cover – potable systems Hunter HQ44-LRC-AW-R 1" Acme Threads – non-potable water w purple cap
Gate Valves	Nibco T113 (brass only) in large rectangle valve box
Backflows	Febco Reduce Pressure, Wilkins Reduce Pressure
Backflow enclosure	Strong box SBBC-XXSS, locking, vandal resistant, stainless steel, smallest size to fit
Pressure Regulators	Febco, Wilkins
Basket Strainer	Hayward/Eaton Model 72 Simplex Basket Strainer bronze body, stainless steel strainer, 60 mesh for recycled water
Controllers as approved	Calsense ET2000e or Rainbird Maxicom (only where existing) <ul style="list-style-type: none"> <li>• All new irrigation controllers to have city approved communication capabilities to Calsense Central System at city yard located at 1425 S Bon View.</li> <li>• Note controller must be certified by the manufacturer's rep prior to city project approval or permit occupancy release.</li> <li>• Irritrol Total Control with ET system or moisture sensors.</li> <li>• Battery controller in valve box (only in approved locations) Hunter Node battery operated controller 1-6 stations</li> </ul>
Valve Boxes	NDS 14x19 Rectangle Box for all remote control and gate valves. NDS 10" Round valve box for all quick couplers, flush valves, air relief valves pull boxes. NDS Jumbo box for all Basket Strainers and drip assembly valves. Concrete valve boxes for medians and roadways
Wires	All master valve and flow sensor wires shall be installed in conduit (sized accordingly). One spare wire shall be included inside of conduit (different color than Master Valve and Flow Sensor Wire). 2 spare wires shall be installed along the mainline along with 1 wire coiled in each valve box. (Different color than field wires and common wire). One spare Common wire shall be installed along the mainline and coiled up at each valve. (Color to be white)
Irrigation Pumps	Rainbird
Marking Tape	Pipe under roadways shall be installed 36" deep, sleeved and identified with marking tape installed 12" below the surface identifying type of line with APWA standard "Caution waterline buried below" in blue or "Caution recycled waterline buried below" in purple.
Sleeves	Sleeves for irrigation lines under paving and roadways shall be Schedule 40 PVC, two times the diameter of the pipe being sleeved. Min 2" sleeve size, also for wire only sleeves, for possible future use.