

#### IRRIGATION LEGEND:

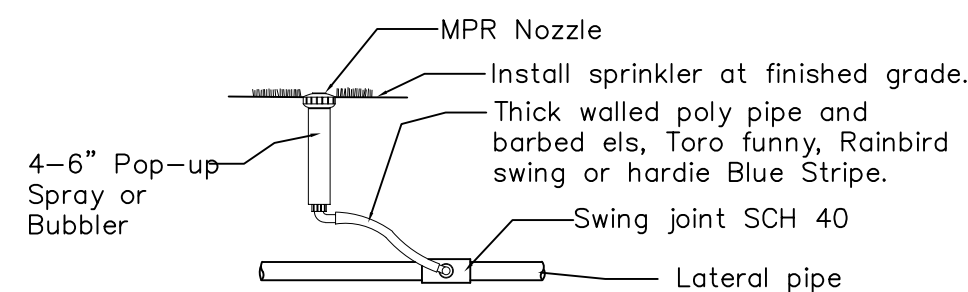
- MAIN LINE - 1-1/2" Feed From Municipal Water Source  
LATERAL ZONE LINES - SDR PVC as noted  
ZONE BOUNDARIES  
BACK FLOW: See Point of Connection Detail.  
CONTROLLER - Toro Custom Command Series Electric 16 station controller MCC-P-16 mounted on North facade of structure, with a Rain Check automatic rain sensor shutoff switch mounted outside on eave of structure.  
ZONE VALVES - Toro 252 Series.  
PROPOSED IRRIGATION WATER PUMP - 2 HP Centrifugal Single Phase - Sta-Rite DS3HG3 or Equal  
SLEEVES - Sch. 40, 2 Sizes Larger. NOTE - Pipe Size Shown is the Lateral Size, NOT the Sleeve Size  
6" POP-UP SPRAY - Toro 570 Series MPR Spray Nozzles as Required. NOTE - All of the below may not be used  
15' Series - 15-Q-PC - 1/4" 15-T-PC - 1/3" 15-H-PC - 1/2" 15-TT-PC - 2/3" 15-TQ-PC - 3/4" 15-F-PC - Full  
12' Series - 12-Q-PC - 1/4" 12-T-PC - 1/3" 12-H-PC - 1/2" 12-TT-PC - 2/3" 12-TQ-PC - 3/4" 12-F-PC - Full  
10' Series - 10-Q-PC - 1/4" 10-T-PC - 1/3" 10-H-PC - 1/2" 10-TT-PC - 2/3" 10-TQ-PC - 3/4" 10-F-PC - Full  
8' Series - 8-Q-PC - 1/4" 8-T-PC - 1/3" 8-H-PC - 1/2" 8-TT-PC - 2/3" 8-TQ-PC - 3/4" 8-F-PC - Full  
4S-SST-PC 4 x 18'  
4-Est-PC 4 x 15'  
4-CST-PC 4 x 30'

#### TREE BUBBLERS

All proposed trees are to be installed with irrigation bubblers.

#### IRRIGATION NOTES:

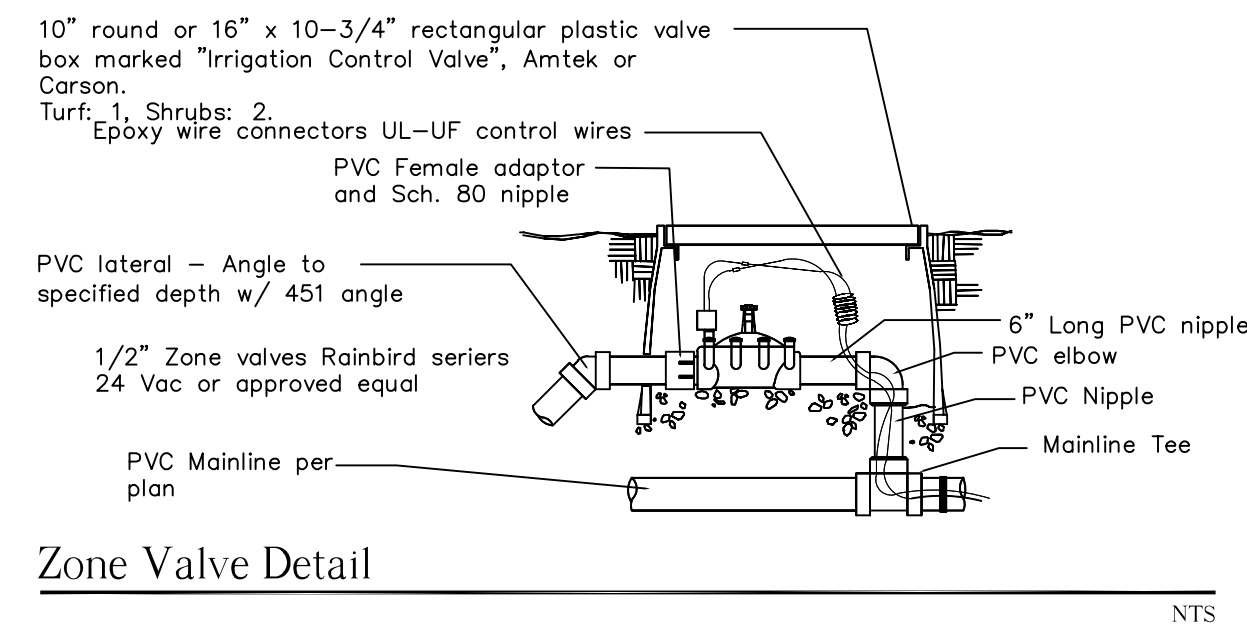
- Piping:  
Main Lines: PVC SDR 26, Class 160 Solvent Weld.  
Zone Lines: PVC; 1/2 in. and 3/4 in. are not used. Min. pipe is 1 in. 315 PSI: 1 in. = SDR 21. 200 PSI: 1-1/4 in. and greater = SDR 26, 160 PSI. All solvent weld.  
All end of the line unmarked pipe = 1 in. (min.).  
Sleeves and suction Line: PVC, SCH 40.  
Fittings: SCH 40 PVC  
Fabrication: To manufacturers specifications. Use blue or grey PVC cement, square cut, clean and prime all joints.  
Allow all main lines to cure for 24 hours before pressuring.  
All pipe, fittings, and solvents to conform to latest ASTM specs.  
Depth of Lines: Main Line and wiring = 18 in. depth, min. Sleeving under pavement = 24 in. depth, min. Suction Line = 24 in. depth, nominal. Zone Lines 1-1/2 in. and smaller = 10 in. depth, min.  
Control Wires: AWG 14 for all hot wires and AWG 12 for common. Solid copper type UF UL listed for direct burial. Run wires under main and tape every 20 feet. Run spares, two min. Splice wires only in a valve box. All splices shall be moisture proof using Snap tie or DBT UL connectors. Common shall be white, hot shall be red or color coded. Spare shall be black. Run in conduit where no Main line runs.  
Backfill all trenches free of debris, compact to original density, flush all lines, use screens in all heads, adjust heads for proper coverage avoiding excess water on walls, walks, etc.  
All details are graphically shown only. All quantities shall be verified by the contractor prior to installation. It shall be the contractor's responsibility to assure complete overlapping coverage. Any discrepancies shall be reported to the owner and landscape architect before proceeding. Codes and local regulations shall take precedence over these plans, it is the contractor's responsibility to comply. The landscape architect reserves the right to make minor field changes, the contractor may field adjust spray nozzle selection to provide for proper 100% min. coverage.  
Provide owner with an accurate as installed plan(s) at completion showing main lines, wiring, valves, crossings, etc. using dimensions from fixed datums.  
Contractor shall verify all underground utilities prior to commencement of work.  
The perimeter irrigation and landscape may be required to be installed prior to either or both pump stations and all main line / valve wiring. A separate plan showing modifications and alternate water source will be provided prior to construction. The modifications will not impact upon the design intent or substantially affect the construction plan.



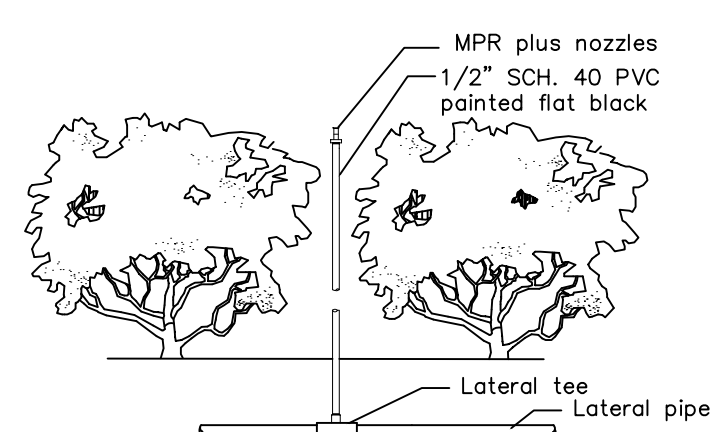
4 or 6" Pop-up Spray / Bubbler Detail

#### IRRIGATION PLAN

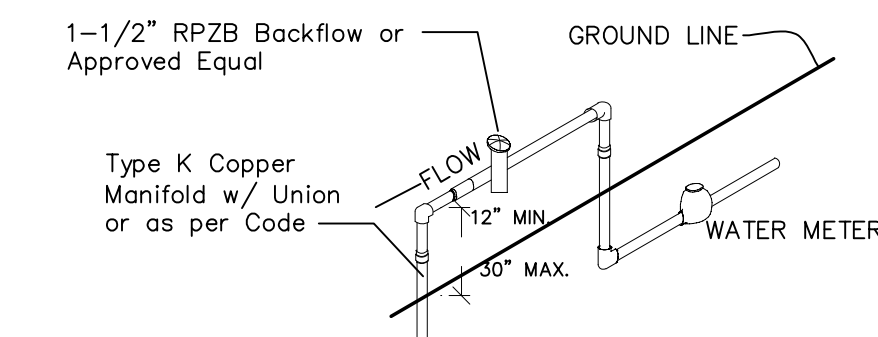
SCALE: 1" = 20'-0"



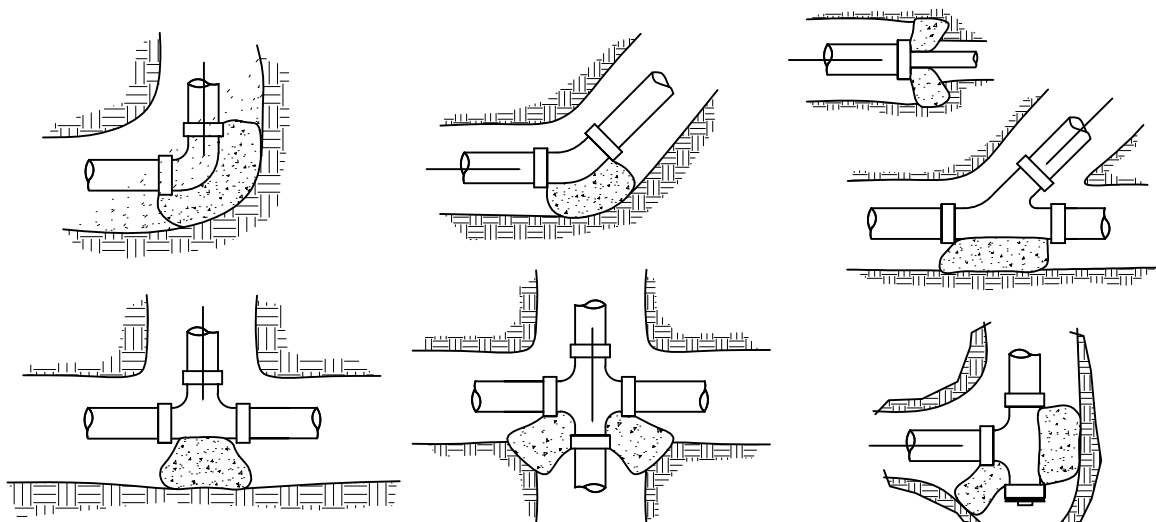
Bubbler to be added to each new tree/palm installation.



Shrub Riser Spray Detail



Point of Connection



Main Line Thrust Blocks