

**CITY OF YAKIMA PUBLIC WATERLINE GENERAL NOTES**

1. All public waterline pipe shall be Class 52 ductile iron. Ductile iron pipe shall be cement-mortar lined and shall conform to ANSI A-21.11 and shall be U.S. Tyton joint pipe or approved equal. Rubber ring gaskets shall conform to ANSI A-21.11. All Cast Iron fittings and flanged Ductile Iron fittings shall be Class 250 and all Ductile Iron mechanical joint fittings shall be class 350 conforming to ANSI/AWWA C110/A-21.10 and ANSI/AWWA C153 A-21.53. Mortar lining shall be same thickness as for pipe.
2. No public water valves shall be opened or closed (operated) by anyone but the City of Yakima Water/Irrigation Division staff.
3. All public waterlines shall have a typical cover of 48-inches unless otherwise noted.
4. All mechanical joints shall be restrained with Romac GripRing restraint system. Unless otherwise noted, all tees, bends and ends of waterlines shall also be blocked with poured in place concrete thrust blocks in accordance with the City of Yakima specifications unless alternate restraint systems have been previously approved. All fittings in contact with concrete shall be wrapped in plastic.
5. All fire hydrant leads longer than one full length of pipe shall be equipped with a restraint gasket (US Pipe Field Lok) at all bell joints.
6. Direct-buried line valves of 12" size and larger shall be butterfly valves. All smaller, direct-buried line valves shall be resilient wedge gate valves. All valves shall be designed to AWWA specifications and shall have a standard 2" square-operating nut unless otherwise shown on plans. All valves shall be designed for at least 150 psi working pressure and shall open counter clockwise.
7. All waterline facilities shall be thoroughly flushed, pressure tested and chlorinated and a potable water test (Bac-t) shall be approved by the City of Yakima **prior to any connection to existing water system.** Flushing of chlorinated water into storm drain system is not allowed unless de-chlorinated.
8. All waterline, fittings and valves used for final waterline connections to the existing water system shall be swabbed with 300ppm chlorinated solution.
9. Contractor shall notify all affected water customers 24 hours prior to any water system shutdown for final waterline connections. Coordinate with City of Yakima Water/Irrigation Division.
10. The City of Yakima Water/Irrigation Division shall make all water main taps unless previously approved by City of Yakima.
11. The City of Yakima Water/Irrigation Division shall install all water services unless previously approved by City of Yakima.