

Service Interruption

The contractor shall give the Lewis County Water District #3 a minimum of ten working days' notice of any planned connection to an existing pipeline. This includes all cut-ins and live taps. Notice is required so that any disruptions to existing services can be scheduled. The Lewis County Water District #3 will notify customers involved or affected 24 hours in advance of the water service interruption. The contractor shall make every effort to schedule water main construction with a minimum interruption of water service. In all situations, the Lewis County Water District #3 will dictate scheduling of water main shut-downs so as not to impose unnecessary shut-downs during specific periods to existing customers.

The contractor is responsible for providing the necessary excavation and shoring to provide access to the existing water main for the Lewis County Water District #3 to make the tap. The excavating and shoring shall conform to L&I standards for worker safety. In the event the contractor does not have shoring conforming to L&I standard, the Lewis County Water District #3 will shut the job down until such shoring is in place.

Hydrants

Lead from Service Main: The lead from the service main to each fire hydrant shall be ductile iron cement mortar lined Class 52, no less than 6" in diameter.

Outlets: Fire hydrants shall have two, 2.5 inch outlets and one 4.5 inch pumper port outlet. Threads shall be #498. The valve opening shall be 5.25 inch diameter. The hydrant shall have a positive and automatic barrel drain and shall be of the "safety" or break-away style. A Stortz coupler shall be provided for the pumper port.

Hydrants shall be Dresser M&H Reliant Style 929 or Mueller Centurion. Unless approved by District. All hydrants shall be bagged until the system is approved.

Spacing: The Lewis County Water District #3 and Lewis County Fire Department #10 work together to ensure that adequate hydrant spacing and installation are achieved.

Unless otherwise required by the governing authority, the following guidelines shall apply for hydrant number and location:

1. At least one hydrant shall be installed at all intersections.
2. Hydrant spacing of 250 feet shall be required in all areas except single family and duplex residential areas.
3. Hydrant spacing of 500 feet shall be required for single family and duplex residential areas.
4. Hydrant location shall be determined by Lewis County Fire Department #10.

Set: Fire hydrants shall be set as shown in standard detail number 2-12.

Connection: Requirements regarding use, size and location of a fire department connection (FDC) and/or post indicator valve will be determined by the Lewis County Fire Department #10. Location of FDCs shall be shown on water plans.

Building Permit: Fire hydrants must be installed, tested and accepted prior to the issuance of a building permit.

Valves

All valves and fittings shall be ductile iron with ANSI flanges or mechanical joint ends. All existing valves shall be operated by Lewis County Water District #3 employees only.

Valves shall be installed in the distribution system at sufficient intervals to facilitate system repair and maintenance, but in all cases, there shall be at least one valve every 600 feet. Generally, there shall be two valves on each tee and three valves on each cross. Specific requirements for valve spacing will be made at the plan review stage.

System Gate Valves, 4" to 12": The design, materials and workmanship of all gate valves shall conform to AWWA C509-87, latest revision. Gate valves shall be resilient wedge non-rising stem (NRS) with two internal O-ring stem seals. Gate valves shall be Mueller, M & H, Waterous, or Kennedy.

Gate valves shall be used on all 2" to 10" lines.

Butterfly Valves: Shall conform to AWWA C504-87, Class 250, with cast iron short body and O-ring stem seals. Butterfly valves shall be Mueller, Dresser, Pratt, or American Darling.

Valve Box: All valves shall have a standard R 910 ductile iron water valve box set to grade, with a 6" ASTM 3034 SDR 35 PVC riser from valve to within 4 to 6 inches of valve box. If valves are not set in paved area, a 3-foot by 3-foot by 4-inch concrete pad shall be set around each valve box at finished grade. In areas where valve box falls in road shoulder, the ditch and shoulder shall be graded before placing asphalt or concrete pad. Valve box lids shall be ductile iron and marked "water". See standard drawing 2-09.

Tapping Valves: All tapping valves shall be resilient seal, full open models manufactured by Mueller, Kennedy, or Clow.

Casing

Steel casing pipe shall be schedule 20 steel or equal. Casing pipe and spacers shall be sized for pipe being installed. The casing pipe shall be sand-packed after the water pipe is installed.

Air & Vacuum Release Valve

Air and vacuum release valves (ARV) shall be APCO 147C or Cla-Val 50A-OI combination air release valve. Installation shall be as shown on standard drawing 2-13.