

APPENDIX J

Design and Construction Standards

Chapter 13.60
WATER

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13.60.100 General

(1) Any extension of the water system must be approved by the administrator. All extensions must meet or exceed the requirements of DOH, the utility water system plan and the local fire protection authority. It is the developer's responsibility to ensure that adequate water for both domestic use and fire protection is attainable. Proposed analyses, documents and plans must show how water will be supplied, and whether adequate water pressure and volume will be maintained in case of fire. An analysis of the system may be required if it seems that the system may be inadequate.

(2) Anyone desiring to extend or connect to the system must contact the utility and make application according to Section 13.30.100. After the completed application is submitted along with any other required information and project approval from the local jurisdiction overseeing land development activities, the utility will determine the costs to connect to the water utility. Extensions and connections to the water utility outside of the water service area is permitted only when a demonstrated health risk exists and has been identified in writing by DOH and the local health agency.

(3) All utility construction or reconstruction plans shall be prepared by and bear the stamp of a qualified professional civil engineer licensed in the state of Washington. Final plans and profile drawings must be accepted by the county engineer prior to the start of construction. A surety for performance will be required to guarantee the completion or maintenance of the required construction. The amount shall be in an amount equal to 125% or the current percentage used in

county public works contracts of the cost of the improvements. The applicant is responsible to obtain all applicable permits and approvals before commencement of construction.

(4) Publicly owned utilities on private lands are not permitted unless a benefit to the utility system can be demonstrated. Where public utilities are permitted to cross private lands, an easement must be granted to the utility. All easements must be prepared by a land surveyor licensed in the state of Washington capable to perform such work. Utility easement widths will be 20 ft minimum. Easements shall be submitted in draft form for review and approval by the utility prior to construction plan approval. All costs to prepare and record the easement will be borne by the party requesting the extension or improvement.

(5) Before any water meters will be installed for service, the water system improvements must be approved and accepted by the administrator, including satisfactory testing and sterilization, certification of completion by a qualified professional civil engineer licensed in the state of Washington overseeing construction, as-built plans, surety for performance, granting of public right-of-way, payment of all applicable fees and written final project approval from the local jurisdiction overseeing land development activities.

13.60.200 Design Standards

(1) Water and sewer design and construction standards are to be taken in the following priority: as contained within adopted, current sewerage and water general plans; and most recent edition of the standard specifications. In the event of a conflict, the administrator shall determine the appropriate design and construction standards to use.

(2) The layout of extensions shall provide for future continuation, extend through the extremes of the property for loop closures and create a looping of the existing system.

(3) The general notes that follow must be included on all plans pertaining to water systems.

GENERAL NOTES (Water Main Installation)

1. All workmanship and material shall be in accordance with Lewis County standards and the most current copy of the State of Washington Specifications for Road, Bridge and Municipal Construction, as published by the Washington State Department of Transportation, American Water Works Association (AWWA) Standards and Washington State Department of Health (DOH) regulations.
2. A preconstruction meeting will be held with the contractor, applicant's engineer, utility inspector, utility personnel, Engineering Division of the Public Works department and affected parties before the start of construction.
3. All water lines 8-inch and larger shall be ductile iron cement mortar lined per AWWA C104, thickness class 52, rated working pressure of 350 psi conforming to AWWA C151, and push on joints conforming to AWWA C111. Water mains of 4-inch and 6-inch shall be PVC C-900 class 200. Water main of 8-inch may be C-900 PVC equal to AWWA C-900, SDR-14.
4. Fittings shall be ductile iron compact fittings conforming to AWWA C153, C110 or C111. All fittings will be cement mortar lined conforming to AWWA C104. Plain end fittings will be ductile iron if mechanical joint retainer glands are installed on the plain ends. All fittings will be connected by flanges or mechanical joints. If required as directed by the administrator, megalug retainer glands and pipe restraint system shall be required.

These restraint systems shall be as manufactured by Romac Industries, EBAA Iron Inc. or approved equal.

5. Gate valves will be resilient wedge, NRS (nonrising stem) with O-ring seals. Valve ends will be mechanical joint or ANSI flanges. Valves will conform to AWWA 509-80. Valves shall be Mueller, M&H, Kennedy or Clow. Existing valves and all valves installed directly to and connected to a portion of the active water system are to be operated by utility personnel only.
6. The contractor will provide approved traffic control plans in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD). Traffic control plans must be approved by the agency administering the affected right of ways.
7. The contractor will keep copies of all approved permits and approvals for water main construction on site.
8. All water mains will be staked for grades and alignment by the design engineer or a licensed land surveyor. All vertical control shall be established to be consistent with the datum used by the water utility. Staking will be maintained throughout construction.
9. All water system connections serving buildings or properties with domestic potable water, fire sprinkler or irrigation systems must comply with the minimum backflow prevention requirements established by DOH and the cross connection control program for the water utility.
10. Call Utilities Underground Location Center at 1-800-424-5555 a minimum of two business days before any excavations.
11. All pipes and services must be installed with continuous tracer tape and toning wire. Tracer tape will be placed 12 to 18 inches under the proposed finished subgrade. The marker will be of plastic, non-biodegradable, metal core or backing marked "WATER" that can be detected by a standard metal detector. Tape will be Terra Tape "D" or approved equal. Toning or tracing wire will be UL listed, type UF, 12-gauge solid coated copper wire. The wire shall be taped to the top of the pipe to prevent movement during backfilling, and laid loose enough to prevent stretching and damage before brought up and tied off at the valve operating nut, valve box or meter box. If the operating nut is not easily accessible from the ground surface, the wire will be tied off at the valve box so that the wire is easily accessible from the ground surface. Two feet of slack will be provided to allow for connection to the locator.
12. A minimum cover of 30 inches and a maximum cover of 36 inches over the pipe shall be maintained at all times.
13. All steps of the testing, chlorination and sampling processes must be witnessed by the utility inspector.
14. All pipe and appurtenances shall be hydrostatically tested at 200 psi (min.) for two hours. A pressure drop greater than 5 psig shall constitute a failure and the pipe shall be retested. The contractor's pressure gage shall be certified for accuracy from a certified testing lab, a maximum of 6 months prior to the first start date of construction.
15. Chlorination by means of tablets or powders (dry calcium hydrochlorite) placed in each length of pipe during installation is prohibited.
16. Where the water line crosses a sanitary sewer, the water line shall be above the sewer line with a separation of at least 18 inches between the invert of the water line and the crown of the sewer pipe. If these criteria cannot be met, then the sewer pipe shall be cased within ductile iron pipe for a distance of 10 ft on both sides of the water line.
17. All "long side services" shall be encased in 160 psi pipe and per the following schedule when crossing the right-of-way.

¾" Service	needs 1.5" casing diameter.
1" Service	needs 2" casing diameter.
1.5" Service	needs 3" casing diameter.
2" Service	needs 3" casing diameter.

18. The utility will be notified five working days prior to scheduling a water system shutdown. Utility personnel will perform all water system shutdowns. When connections require field verification, the contractor will expose the connection points and have the fittings verified by the utility three working days before the anticipated shutdown date. Shutdowns will not be permitted on Fridays, weekends or holidays without written approval from the administrator.
19. When connecting to an existing water line where a new valve is not to be installed, the existing valve must be pressure tested to these standards by the contractor prior to connection. If an existing valve fails the test, the contractor will make the necessary additional provisions to test the new main prior to connecting to the existing system or the contractor will construct a new valve. New mains will not be connected to the existing system until all required tests have passed.

13.60.210 Water Main

(1) Water mains shall be sized to provide adequate domestic plus fire flow at the required residual pressure. Fire flow requirements will be determined by the local fire protection authority. However, the quantity shall be no less than 750 gpm at 20 psi residual pressure or the applicable minimum fire flows in WAC 246-293-640.

(2) The minimum water main size will be 6-inch where looped and 8-inch to the last fire hydrant where not looped. Larger sized mains may be required as identified in the water system plan or if determined necessary by the administrator to meet fire protection, domestic requirements and future service needs.

(3) All mains that may be extended or looped must end with an approved, flanged gate valve and blind flange, thrust block and blowoff assembly.

(4) All water lines at 8-inch and larger shall be ductile iron, cement mortar lined per AWWA C104, thickness class 52, rated working pressure of 350 psi. Water mains shall be PVC C-900 class 200 for 4-inch and 6-inch mains. Water mains of 8 inches may be C-900 PVC equal to AWWA C-900, SDR-14. All pipes will be joined using nonrestrained joints that will be rubber gasketed, push-on type or mechanical joint, conforming to AWWA C111.

(5) All fittings shall be ductile iron compact fittings conforming to AWWA C153, C110 or C111. All fittings will be cement mortar lined conforming to AWWA C104. Plain end fittings will be ductile iron if mechanical joint retainer glands are installed on the plain ends. All fittings will be connected by flanges or mechanical joints. If required as directed by the administrator, megalug retainer glands and pipe restraint system shall be required. These restraint systems shall be as manufactured by Romac Industries, EBAA Iron Inc. or approved equal.

(6) All pipes and services must be installed with continuous tracer tape and toning wire. Tracer tape will be placed 12 to 18 inches under the proposed finished subgrade. The marker will be of plastic, non-biodegradable, metal core or backing marked "WATER" that can be detected by a standard metal detector. Tape will be Terra Tape "D" or approved equal. Toning or tracing wire will be UL listed, type UF, 12-gauge solid coated copper wire. The wire shall be taped to the top of the pipe to prevent movement during backfilling, and laid loose enough to prevent stretching and damage before brought up and tied off at the valve operating nut, valve box or meter box. If the operating nut is not easily accessible from the ground surface, the wire will be tied off at the valve

box so that the wire is easily accessible from the ground surface. Two feet of slack will be provided to allow for connection to the locator.

(7) The developer's engineer will be responsible for determining the scope of work for connection to existing water mains. A minimum of five working days' advance is required to schedule shutdowns. Shutdowns cannot be scheduled until an application for utility service has been approved and all applicable fees have been paid in full. The utility will be consulted about required fittings and couplings. It is the contractor's responsibility to verify the location and depth of the existing main; obtain required fittings; and to furnish all materials, equipment and labor to make the connections to the existing main. The tapping of an existing water main shall be done in the presence of a utility inspector.

13.60.220 Hydrants

(1) The lead from the service main to the fire hydrant will be ductile iron cement mortar lined class 52, no less than 6 inches diameter. A gate valve will be installed a minimum of three feet from the hydrant unless otherwise approved by the administrator.

(2) Fire hydrants shall have two 2.5-inch hose connections, one 4.5-inch pumper connection, a removable Storz one-quarter turn adapter and blind cap attached to the pumper connection. The Storz adapter will include a cap. All threads shall be National Standard Thread. The hydrant will have a positive and automatic barrel drain, breakoff flange on the barrel, breakoff coupling for the stem and of the "safety" or breakaway style.

Hydrants shall be manufactured by Clow Corporation (Medallion), Mueller Centurion, M&H Reliant Style 929, or approved equal. All hydrants will be bagged and the connecting gate valves will remain closed until the system is tested and approved. Hydrants will be painted with high-grade enamel after installation of the color specified by the local fire authority agency.

(3) The utility will work with the local fire authority agency to determine hydrant spacing and placement to provide accessibility at all times for fire protection and maintenance. The utility will maintain hydrants that belong to the utility system. Unless otherwise required by the local fire authority agency, the following guidelines shall apply for hydrants that will belong to the utility:

- At least one hydrant will be installed at all intersections.
- Hydrant spacing of 500 ft will be required for residential areas.
- Hydrant spacing of 300 ft will be required for non-residential areas.
- The spacing distance for hydrants will be measured along the frontage street and accessible side street. When determining the sufficiency of existing hydrants, hydrants with flows that do not meet Section 13.60.210(1) will not be considered.

(4) Fire hydrants will be installed per Standard Detail __.

(5) The utility may require hydrants to be protected by two or more posts, 4-inch diameter by 5 ft high, of reinforced concrete or steel.

(6) Fire hydrants that will belong to the utility must be constructed and tested prior to acceptance by the utility.

13.60.230 Valves

(1) General. All valves and fittings will be ductile iron with ANSI flanges or mechanical joint ends. All existing valves are to be operated by utility personnel only.

(2) Valves shall be installed in the distribution system at sufficient intervals to facilitate system repair and maintenance, but in no case less than one valve every 600 ft. Generally, there will 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.

(3) Gate valves will be used on all 2-inch to 12-inch water lines. The design, materials and workmanship of all gate valves shall conform to the most recent AWWA C509-87. Gate valves will be resilient wedge nonrising stem (NRS) with two internal O-ring seals. Gate valves shall be Mueller, M&H, Kennedy or Clow .

(4) Butterfly valves will be used on lines 14 inches and larger. Butterfly valves will conform to AWWA C504-87, class 150B with cast iron short body and O-ring stem seals. Butterfly valves shall be Mueller, Pratt Groundhog, Kennedy or American Darling.

(5) All valves shall have a standard Olympic Foundry 910 or 940 ductile iron water valve box as determined by utility. The valve box will be set to grade with a 6 inch ASTM 3034 SDR 35 PVC riser from valve to approximately six inches from the valve box top. If valves are not set in a paved area, a 3 ft by 3 ft concrete pad four inches thick will be set around each valve box at finished grade. If the valve box is positioned on the road shoulder, the ditch and shoulder shall be graded before placing asphalt or concrete pad. All valve box components shall be H-20 rated, ductile iron, anti-kickout lids, and marked with "WATER" or "W" on the lids. See Standard Detail ___.

13.60.240 Casing

Steel casing pipe shall be schedule 20 steel or equal. Casing pipe and pipe spacers will be sized for the pipe being installed with a minimum of three spacers per section of pipe. The casing pipe shall be sand-packed and sealed after the water pipe is installed according to the spacer manufacturer's recommendations.

13.60.250 Air and Vacuum Release Valve

Combination air release and vacuum valves (ARV) shall be APCO 140 series, Cla-Val series 36, Val-Matic or Crispin with stainless steel internal components and hardware. Installation shall be set at the high point of the line when required. Where possible, pipes are to be graded to prevent the need for an ARV. ARVs may not be required when services are in the area but the final determination will be made by the administrator.

13.60.260 Blowoff Assembly

If a fire hydrant is not located at the end of a dead end main, a blowoff assembly is required. On water mains that may be extended in the future, the valve that operates the blowoff assembly will be the same size as the main and provided with a concrete thrust block. The pressure rating for blowoff assemblies shall be 200 psi. Adequate drainage must be available for use of the assembly under operating conditions. Installation is to be as shown on Standard Detail ___.

13.60.270 Backflow Prevention

(1) All water service connections to serve buildings with domestic potable water, fire suppression, private well, on-site irrigation or other potentially backflow hazardous situations shall comply with the backflow requirements as established by DOH, WAC 246-290 and the utility.

(2) All backflow prevention assemblies installed must be of a type and model preapproved by DOH or the utility, and constructed in accordance with the Uniform Plumbing Code (UPC). The utility may require additional premise protection when health hazards are known to exist.

(3) All assemblies will be installed behind the utility's metering device, and within six feet of the meter box or before any other use connection to protect the water distribution system.

(4) All installed assemblies must be inspected and approved by a state certified Backflow Assembly Tester (BAT). The property owner shall submit the results of the initial and annual thereafter tests and inspections of all backflow prevention assemblies by a certified BAT to the utility. All assemblies not passing a test must be repaired immediately.

(5) All costs associated with purchase, construction, inspections, testing, replacement, maintenance, parts and repairs of a backflow prevention assembly are the responsibility of the property owner or user.

(6) Failure on the part of the water customer to correct all cross connections in accordance with these standards, to test as required or bypassing an assembly or air gap is sufficient cause for the immediate discontinuance of public water service to the premises.

13.60.280 Service Connection

(1) When water service is desired for a parcel fronting an existing main and within the utility service area for capacity, but not served by an existing meter setter, an application for utility service must be completed and submitted to the utility. Upon approval of the application and payment of all applicable fees, the utility will tap the main and install the setter, box and meter.

(2) The contractor shall give the department a minimum of five working days' advance notice of any planned connection to an existing pipeline. This includes all cut-ins and live taps. Notice is required so disruptions to existing services can be scheduled. The utility will provide notice to affected customers 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 service. In all situations, the utility shall determine scheduling of water main shutdowns.

(3) All water services shall end within public right-of-way or easements. Shutoff valves shall be located behind the service meter box and constructed with a separate box on the edge or outside of the public right-of-way. All services, meter setters, shutoff valves and meter boxes shall be installed by the contractor. The Utility will install the meters.

(4) Service lines will be 1-inch, 200 psi minimum working pressure, SDR 7 polyethylene pipe such as DriscoPlex 5100 Ultra-Line or approved equal. Service lines shall be installed a minimum of 22.5° off the main. Tracer wire shall be 12 gauge copper with neoprene coating. Tracer wire shall be wrapped around the pipe from the main tap to the meter box, and exposed 6 inches minimum in the meter box.

Service saddles shall be ductile iron with double stainless steel straps as manufactured by Romac or approved equal. All clamps shall have a rubber gasket.

Corporation stops shall be all U.S. brass with cc threads conforming to AWWA C800 unless using a service saddle. If using a service saddle, threads shall be Iron Pipe Threads (I.P.T). Corporation

stops shall be manufactured by Ford or Mueller. Stainless steel inserts are required for all compression grip fittings.

Meter setters shall be no-lead, copper yoke types with ball valve, check valve and double purpose couplings as manufactured by Ford or Mueller.

Meter boxes shall be H20 rated with minimum exterior dimensions of 14-inch x 20-inch x 10-inch deep and ductile iron flip reader lids such as Fogtite no. 1, Fogtite B-9 or approved equal. See Standard Details __ and __.

(5) Master meters or metering of service to more than one building shall be approved by the administrator and the local jurisdiction overseeing land development activities. An approved backflow prevention system must be installed in conjunction with any master meter in accordance with WAC 246-290-490.

13.60.290 Water and Sewer Main Crossings

The contractor will maintain a minimum of 18 inches of vertical separation between sanitary sewers and water mains with the water main being at the highest elevation. If the minimum vertical separation cannot be met, then the standards for water-sewer separation in the Ecology's Criteria for Sewage Works Design shall apply. The longest standard length of water pipe will be installed so that the joints will fall equidistant from any sewer crossing. In cases where minimum separation cannot be maintained, it will be necessary to encase the sewer pipe in ductile iron pipe or concrete. No concrete will be installed unless directed by the administrator.

13.60.300 Irrigation

All irrigation systems shall be installed with a backflow prevention assembly approved by DOH and the administrator. Irrigation sprinklers shall be situated so as to not wet any public street and sidewalk.

13.60.310 Staking

All surveying and staking will be performed by an engineering or surveying firm licensed by the State of Washington and capable of performing such work. A preconstruction meeting will be held with the county and the staking will be inspected by the county prior to construction. Staking shall be maintained throughout construction.

The minimum staking of water lines shall be as follows:

1. Stake centerline alignment every 25 ft (50 ft in tangent sections) with cuts and fills to the bottom of the trench maintaining the minimum required depth of cover over the pipe. Centerline cuts are not required when road grade is to finished subgrade elevation.
2. Stake locations of all fire hydrants, hydrant flange elevations, tees, water meters, setters and other fixtures within the cut or fill to finished grade.

13.60.320 Trench Excavation

(1) Clearing and grubbing where required shall be performed within the public right-of-way or easement as permitted by the local jurisdiction. All debris resulting from clearing and grubbing must be disposed of by the owner or contractor in accordance with the terms of the applicable permits.

(2) Trenches shall be excavated to the line and depth designated by the utility to provide a minimum of 30 inches of cover over the pipe. Except for unusual circumstances where approved by

the utility, the trench sides shall be excavated vertically and the trench width shall be excavated only to such widths necessary for adequate working space as allowed by the governing agency. The trench shall be kept free from water until pipe assembly is complete. Surface water will be diverted so as to not enter the trench. The contractor shall maintain sufficient pumping equipment on the job to ensure that these provisions are carried out. Pipe placed in the trench will be sealed with a watertight plug at the end of each day. More frequent use of a watertight plug may be as required by the utility.

(3) The contractor shall perform all excavation of every description and of whatever substance encountered including boulders, rocks, roots and other obstructions. All material will be entirely removed or cut out to the width of the trench and to a depth 6 inches below water main grade. Where materials are removed from below water main grade, the trench shall be backfilled to grade with material satisfactory to the county and thoroughly compacted.

(4) Trenching and shoring operations shall not proceed more than 100 ft in advance of pipe laying with approval of the utility and shall be in conformance with the Washington Industrial Safety and Health Administration (WISHA) and Office of Safety and Health Administration (OSHA) safety standards. The contractor shall maintain the presence of a "competent person" as defined by the Washington State Department of Labor and Industries (L&I) when any trench excavation and backfill work is being done at the project site.

(5) The bottom of the trench shall be finished to grade with hand tools in such a manner that the pipe will have a bearing along the entire length of the barrel. The bell holds shall be excavated with hand tools to sufficient size to make up the joint.

13.60.330 Thrust Blocking

The location of all thrust blocking will be shown on plans. The concrete blocking mix shall be Class 3000 cast against undisturbed earth. A plastic barrier will be placed between all thrust blocks and fittings. MEGALUG restrainers, Romac retainers or restraining rods shall be used in lieu or with thrust blocks. See Standard Detail __.

13.60.340 Backfilling

Backfilling will not commence until the pipe installation has been inspected and approved by a utility inspector. Backfilling and surface restoration will follow construction of the pipe so that not more than 100 ft is left exposed during construction hours without approval of the utility.

Selected bedding material conforming to WSDOT Standard Specifications will be placed and compacted around and under the water mains by hand tools to a height of six inches above the top of the main. The remaining backfill shall be compacted to 95% of the maximum density in traveled areas and 90% outside traveled areas.

Backfill and compaction shall be completed to the satisfaction of the jurisdiction over the public right of way. If suitable backfill material is not available from the trenching operations, select bedding or gravel base conforming to WSDOT Standard Specifications may be used. At the conclusion of each day the trench shall be totally backfilled or steel plated so that no open excavation is left overnight.

13.60.350 Street Patching and Restoration

Street patching and restoration shall be completed to the satisfaction of the jurisdiction over the roadways.

13.60.360 Hydrostatic Tests

(1) Prior to the acceptance of work, the contractor shall conduct a hydrostatic pressure test on the installation. All labor, water, pumps, gages, plugs, saddles, corporation stops, hoses, chemicals, measuring equipment and incidentals necessary to perform the test will be furnished and operated by the contractor. The contractor's pressure gage shall be certified for accuracy from a certified testing lab, a maximum of six months prior to the first start date of construction. The contractor will pay for all water needed for testing at the current rates charged by the utility. Hydrostatic and bacteriological tests will be conducted after all connections along the test section have been made, underground utilities are installed, between valves and the roadway section is constructed to subgrade.

(2) Only utility authorized personnel shall operate isolation valves. All tests will be made with the hydrant auxiliary gate valves open and pressure against the hydrant valve. After the test has been completed, each gate valve will be tested individually by closing each in turn and relieving the pressure beyond. This test will be acceptable if there is no immediate loss of pressure on the gauge when the pressure comes against the valve being tested. The contractor will verify that the pressure across the valve does not exceed the rated working pressure of the valve.

(3) The section of main to be tested shall be filled with water at a velocity no greater than 1 ft/sec and allowed to stand under pressure for a sufficient length of time to allow air to escape and the pipe lining to absorb water.

(4) The utility shall be present to witness the test after all air in the main has been released. The test will be accomplished by pumping the main up to 150 psi above the normal operating pressure but not less than 200 psi. After reaching the test pressure, the pump will be stopped for 15 minutes and then the pressure will be brought back up to the test pressure again. Test pressure shall be maintained for two hours. A pressure drop greater than 5 psig shall constitute a failure and the system shall be retested.

(5) Defective material or workmanship discovered during a hydrostatic field test will be replaced by the contractor at no expense to the utility. Hydrostatic tests will be made by the contractor until a satisfactory test is obtained.

13.60.370 Sterilization and Flushing

(1) Sterilization of water mains shall be accomplished by the contractor in accordance with the requirements of DOH and current AWWA standards, and in a manner satisfactory to the utility.

(2) The contractor is responsible for all costs in this section, retesting and associated work to comply with sterilization and flushing.

(3) Chlorination by means of tablets or powders such as dry calcium hypochlorite placed in each length of pipe during installation is prohibited.

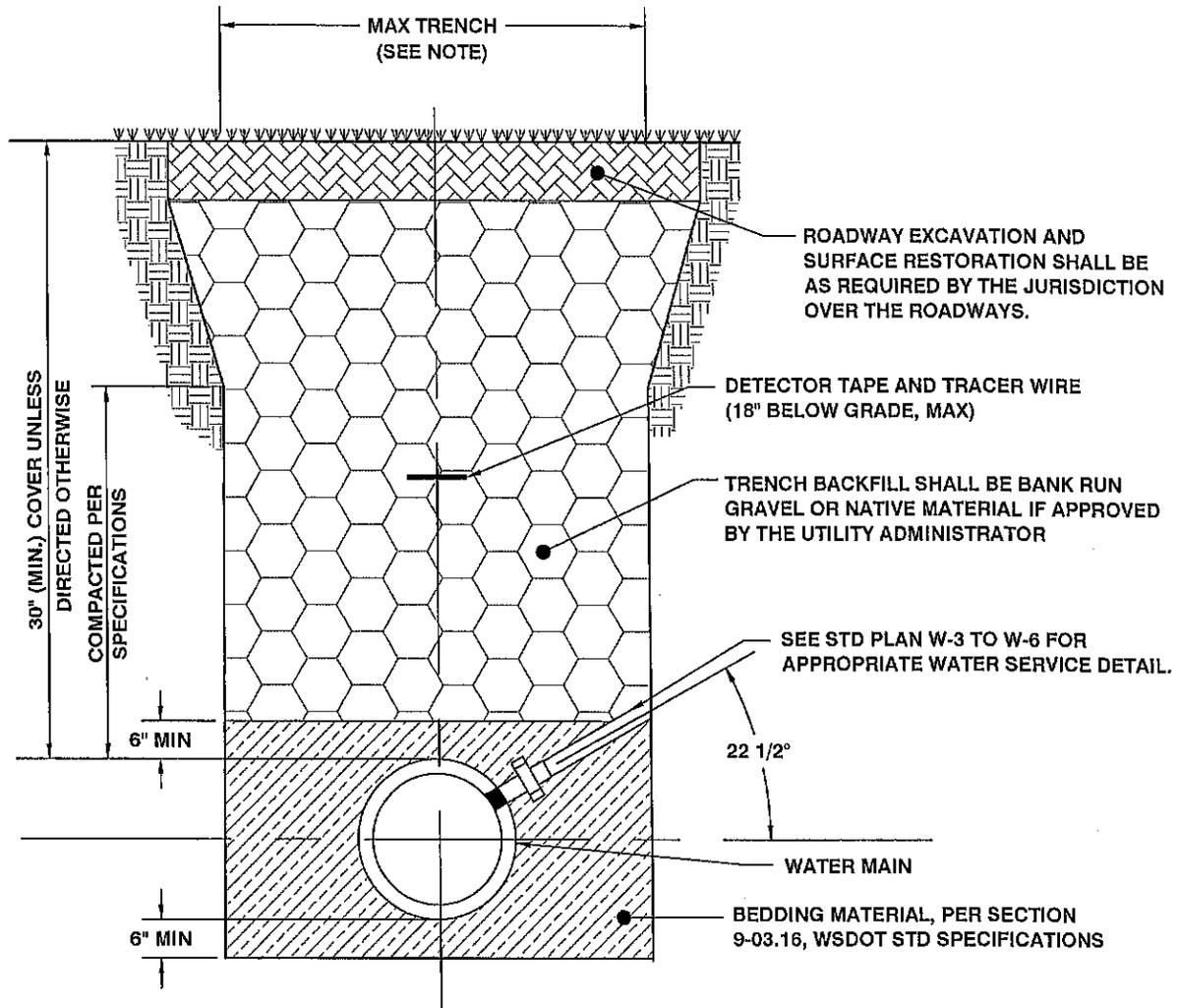
(4) The contractor shall prepare a plan for disposal of treated water prior to performing any disinfection. At no time shall treated water from a new main be disposed directly into any water course or natural drainage channel. Sodium ascorbate or other approved chemical shall be used as the neutralizing agent if dechlorination is used. Sodium thiosulfate shall not be used. Written permission from the sewer agency shall be obtained before disposal to the sanitary sewer is allowed.

(5) Following a successful hydrostatic test, the water main not connected to the existing system shall be relieved of excess pressure and the main left full of the proper chlorine concentration. The line shall be left undisturbed for at least 24 hours but not more than 48 hours before starting the flushing process. Flush thoroughly and as soon as possible after the 24-hour period to minimize prolonged exposure of the pipe to high concentrations of chlorine. The contractor shall flush until the chlorine level in the water leaving the new main is no higher than the distribution system or that level acceptable for domestic use.

(6) The contractor shall take water samples in the presence of utility inspector at least 24 hours after flushing and disinfecting. Should the initial chlorine treatment result in an unsatisfactory bacteriological test, the procedure must be repeated by the contractor until satisfactory results are obtained.

13.60.380 Pump Station

When a pump station is required to provide the necessary flows for a new development, the developer shall construct and bear all costs of the pump station, provide training and instructional manuals to the Utility, and associated documentation to the Utility to help maintain the pump station. The pump station shall be designed and certified by a professional engineer licensed in the state of Washington in civil engineering.



NOTES:

1. MAXIMUM WIDTH OF TRENCH SHALL BE 1.5' PLUS 1.5 x PIPE I.D. OR WHICHEVER IS GREATER.
2. ALL MATERIALS, WORKMANSHIP AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST RECENT WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT STD SPECIFICATIONS) AS AMENDED BY THE UTILITY.
3. BEDDING SHALL BE COMPACTED TO 95% MAX, BACKFILL SHALL BE COMPACTED TO 85% IN UNPAVED AREAS AND 95% IN PAVED AND SHOULDER AREAS.

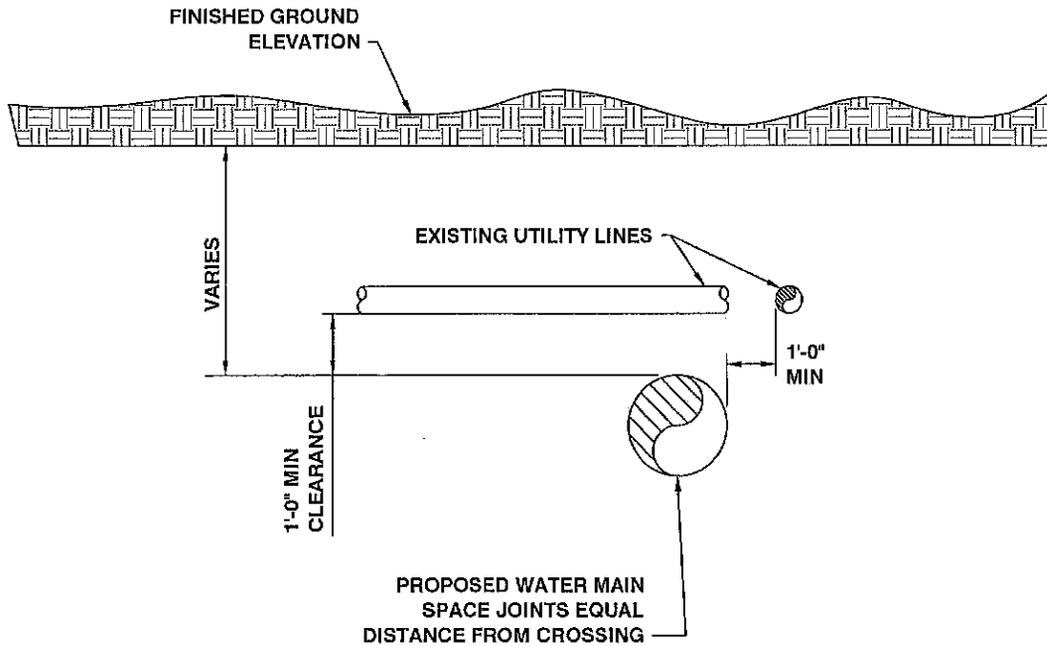
DRAWING NOT TO SCALE



WATER MAIN TRENCH

STD PLAN NO: W-1

APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



NOTES:

1. CONCRETE ENCASEMENT SHALL BE USED, IF APPROVED BY THE UTILITY ADMINISTRATOR, AT LOCALIZED UTILITY CROSSING IF MINIMUM PIPE SEPARATION (ELEVATION) CANNOT BE MAINTAINED.
2. DEVELOPER SHALL VERIFY LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES

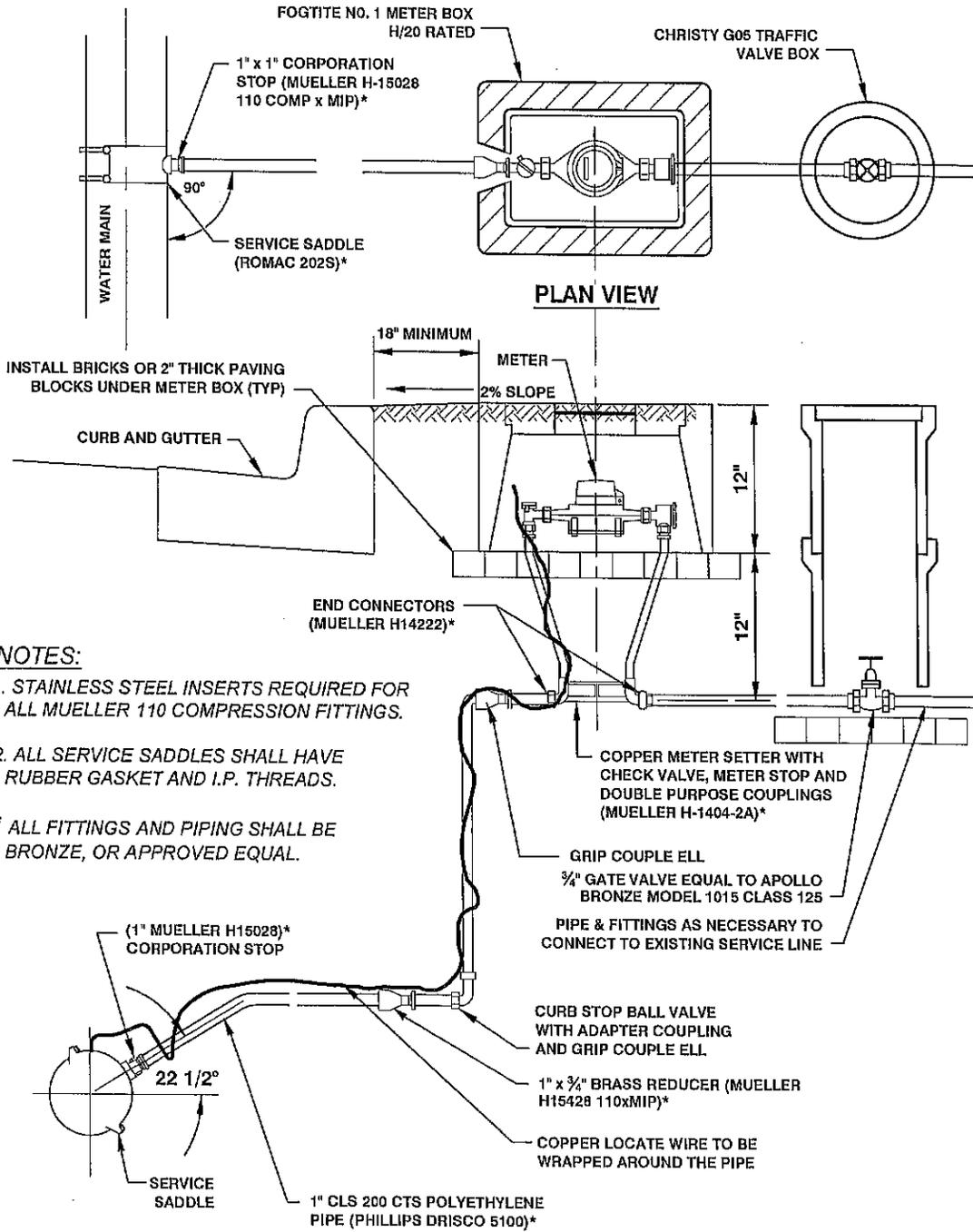
DRAWING NOT TO SCALE



TYPICAL WATER CROSSING

STD PLAN NO: W-2

APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



- NOTES:**
1. STAINLESS STEEL INSERTS REQUIRED FOR ALL MUELLER 110 COMPRESSION FITTINGS.
 2. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET AND I.P. THREADS.
- * ALL FITTINGS AND PIPING SHALL BE BRONZE, OR APPROVED EQUAL.

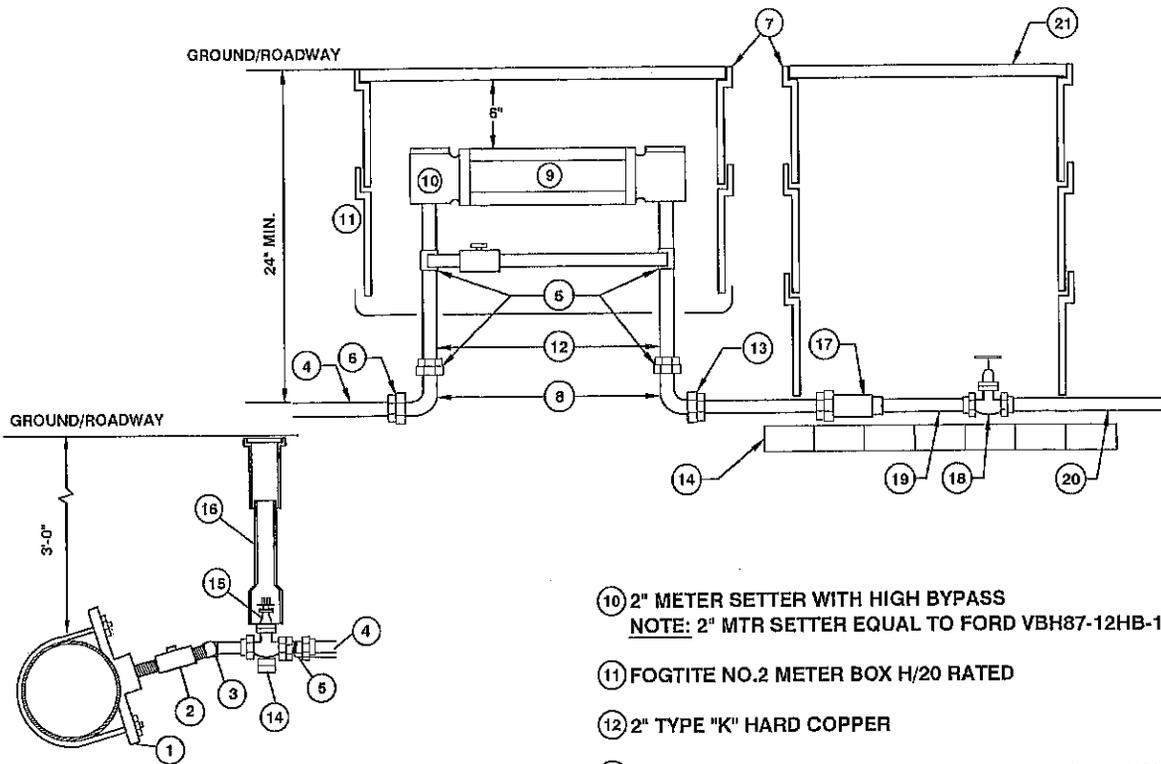
DRAWING NOT TO SCALE



3/4" AND 1" SINGLE METER SERVICE

STD PLAN NO: W-3

APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



- ① 2" (IP TAP) DOUBLE STRAP SADDLE EQUAL TO ROMAC STYLE 2025
- ② 2" BRASS IP BALL CORP
- ③ 2 - 2" BRASS STREET ELLS FOR SWING JOINT
- ④ COPPER TYPE K SOFT PIPE (2")
- ⑤ 2" MIPT X CTS GRIP FITTING
- ⑥ 2" FIPT X CTS GRIP FITTING
- ⑦ CONTRACTOR SHALL INSTALL METER BOXES SO THAT THERE IS AT LEAST 6" OF SEPARATION TOP EDGE TO TOP EDGE
- ⑧ 2" BRASS ST ELL
- ⑨ METER SPACER TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SPACER MUST HAVE A MINIMUM OF 8 - 1/4" HOLES DRILLED IN SPACER BODY.

NOTE: COUNTY TO SUPPLY 1-1/2" OR 2" METER AS REQUESTED BY PROPERTY OWNER. IF 1-1/2" METER IS USED COUNTY WILL SUPPLY REDUCERS TO CONNECT METER.

- ⑩ 2" METER SETTER WITH HIGH BYPASS
NOTE: 2" MTR SETTER EQUAL TO FORD VBH87-12HB-1177
- ⑪ FOGTITE NO.2 METER BOX H/20 RATED
- ⑫ 2" TYPE "K" HARD COPPER
- ⑬ SCHEDULE 40 2" PVC CAP REMOVED WHEN CONNECTION MADE TO CUSTOMER
- ⑭ 4"X4"X8" CONCRETE BLOCK SUPPORTS
- ⑮ 2" RESILIENT WEDGE GATE VALVE (FIP X FIP) WITH 2" AWWA OPERATING NUT
- ⑯ 2 PIECE VALVE BOX
- ⑰ APOLLO BRONZE MODEL CVBE SOFT SEAT CHECK VALVE (61-500/600 SERIES) THDxTHD OR EQUAL
- ⑱ 2" GV EQUAL TO APOLLO BRONZE MODEL 1015 CLASS 125
- ⑲ 2" BRASS SPOOL, LTF
- ⑳ PIPE AND FITTINGS NECESSARY TO CONNECT TO EXISTING SERVICE LINE
- ㉑ FOGTITE NO.1 METER BOX H/20 RATED

NOTES:
 1. 2" METER SETTER EQUAL TO: VBB87-12HB-1177 FOR EXISTING SERVICE
 2. SERVICE TAP TO MAIN SHALL BE ANGLED AND NOT EXCEED 22 DEGREES

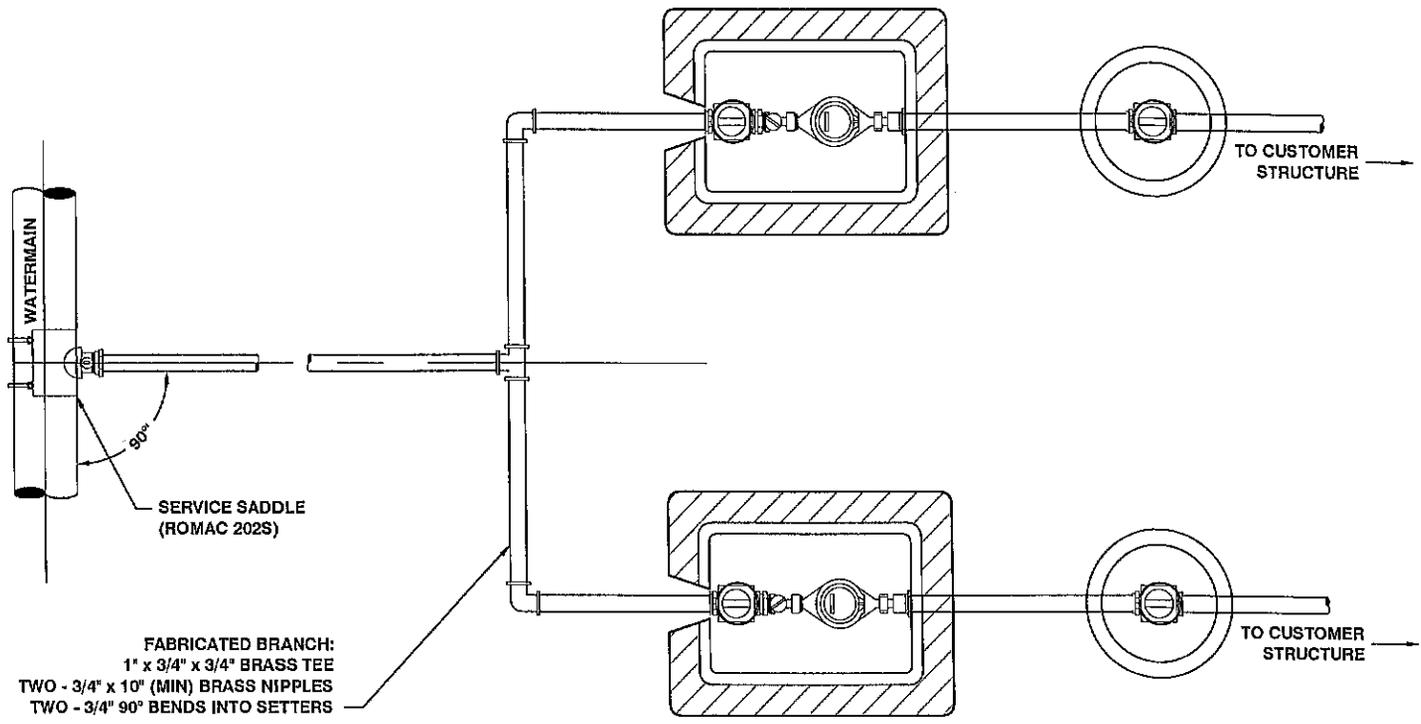
DRAWING NOT TO SCALE



2" WATER SERVICE

STD PLAN NO: W-4

APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



FABRICATED BRANCH:
 1" x 3/4" x 3/4" BRASS TEE
 TWO - 3/4" x 10" (MIN) BRASS NIPPLES
 TWO - 3/4" 90° BENDS INTO SETTERS

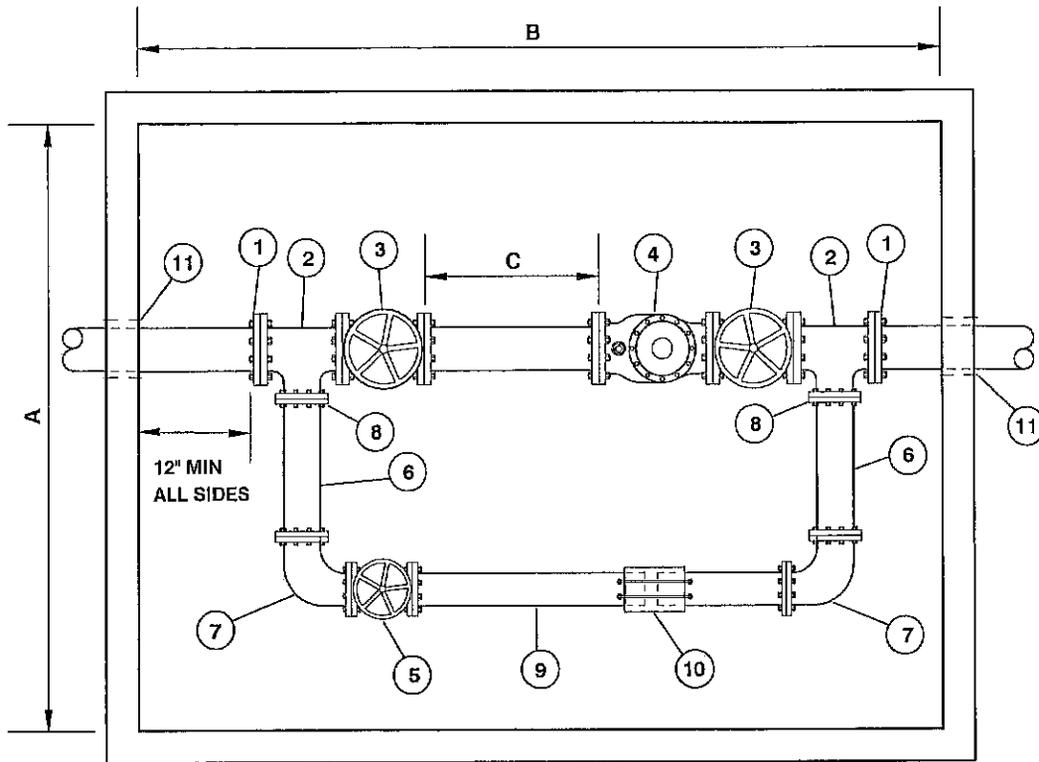
PLAN VIEW

NOTES:

1. SEE STANDARD DETAIL W-3 FOR CONNECTION TO MAIN AND SINGLE METER SERVICE DETAILS

DRAWING NOT TO SCALE

	<h2 style="margin: 0;">1" DUAL WATER SERVICE</h2>	<p>STD PLAN NO: W-5</p>
<p>APPROVED BY: _____ REVISED DATE: _____</p> <p style="margin-top: 5px;">Lewis County Engineer</p>		



METER	Minimum Dimensions			DOOR SIZE	VAULT DEPTH	TEE
	A"	B"	C"			
3" Compound	3'6"	5'6"	15"	3' X 3'	5'0"	3"X1 1/2"
4" Compound	3'6"	8'0"	20"	3' X 3'	5'0"	4"X2"
6" Compound	3'6"	8'0"	30"	3' X 3'	5'0"	6"X4"
8" Compound	4'6"	10'0"	40"	4' X 4'	5'0"	8"X6"

- | | |
|--|------------------------------|
| ① FLEX X FLG COUPLING | ⑧ COMPANION FLG |
| ② ALL-FLG TEE | ⑨ BRASS OR DUCTILE IRON PIPE |
| ③ FLG RES. SEATED GATE VALVE W/HAND WHEEL | ⑩ MECHANICAL COUPLING |
| ④ COMPOUND METER | ⑪ PIPE SLEEVE |
| ⑤ GATE VALVE W/HAND WHEEL | |
| ⑥ BRASS OR DUCTILE IRON NIPPLES | |
| ⑦ 90° ELBOWS (MATERIAL TO BE SAME AS PIPE) | |

NOTES:

PLAN VIEW

1. VAULT DIMENSIONS SHOWN ARE INSIDE (MIN) DIMENSIONS.
2. BACKFLOW PREVENTION IS NOT INCLUDED AS PART OF THIS DETAIL.
3. METER AND SERVICE LINE SIZES WILL VARY ACCORDING TO NEED.
4. ALL VAULTS WILL BE SUPPORTED BY ADEQUATE FOOTING OR FLOOR.
5. PIPE AND FIXTURES TO BE SET ON VALVE STANDS INSTALLED ACCORDING TO MANUFACTURERS SPECS.
6. DRAINAGE MUST BE PROVIDED FOR THE VAULT.

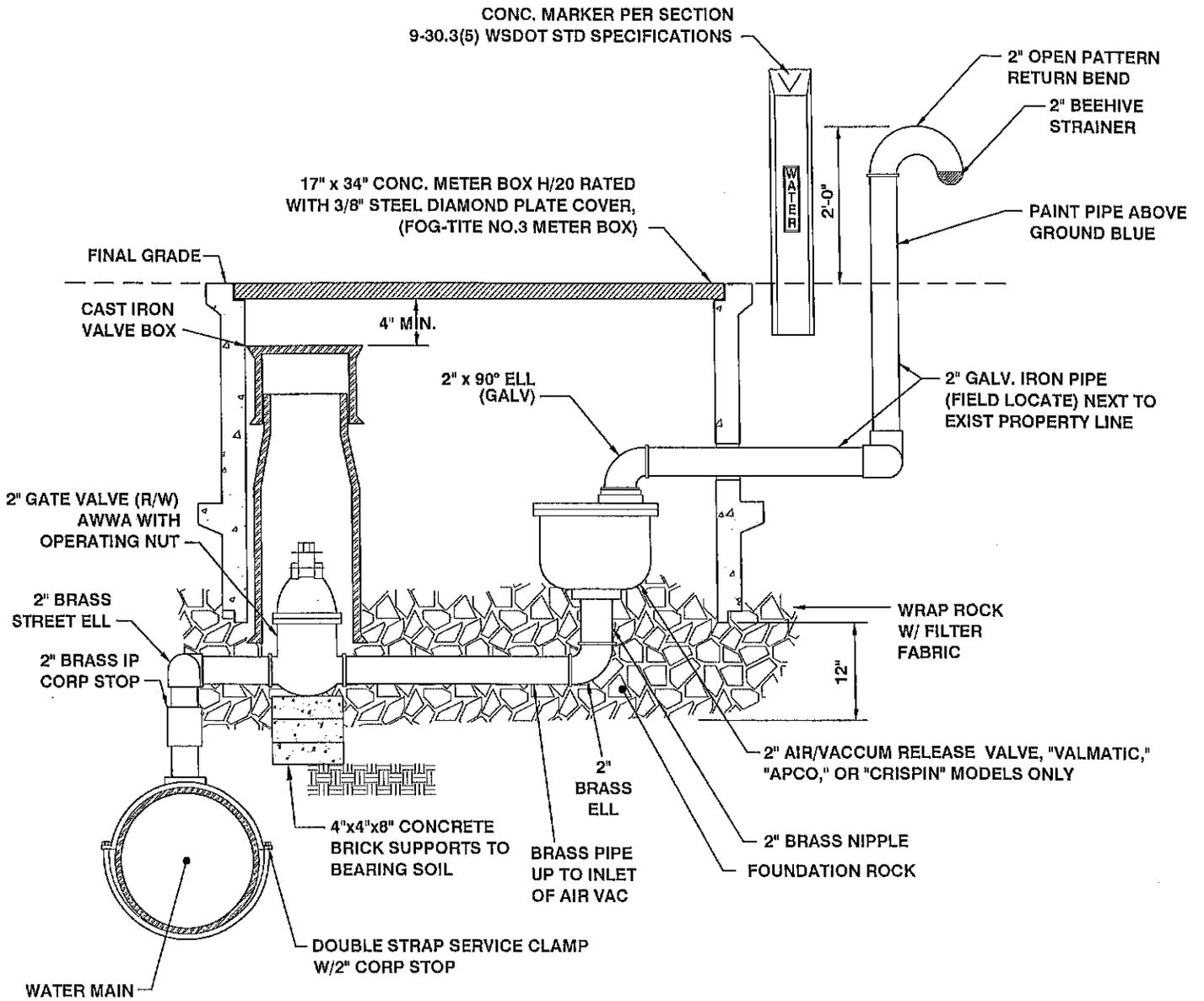
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WATER SERVICE (3" TO 8")

STD PLAN NO: W-6



APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



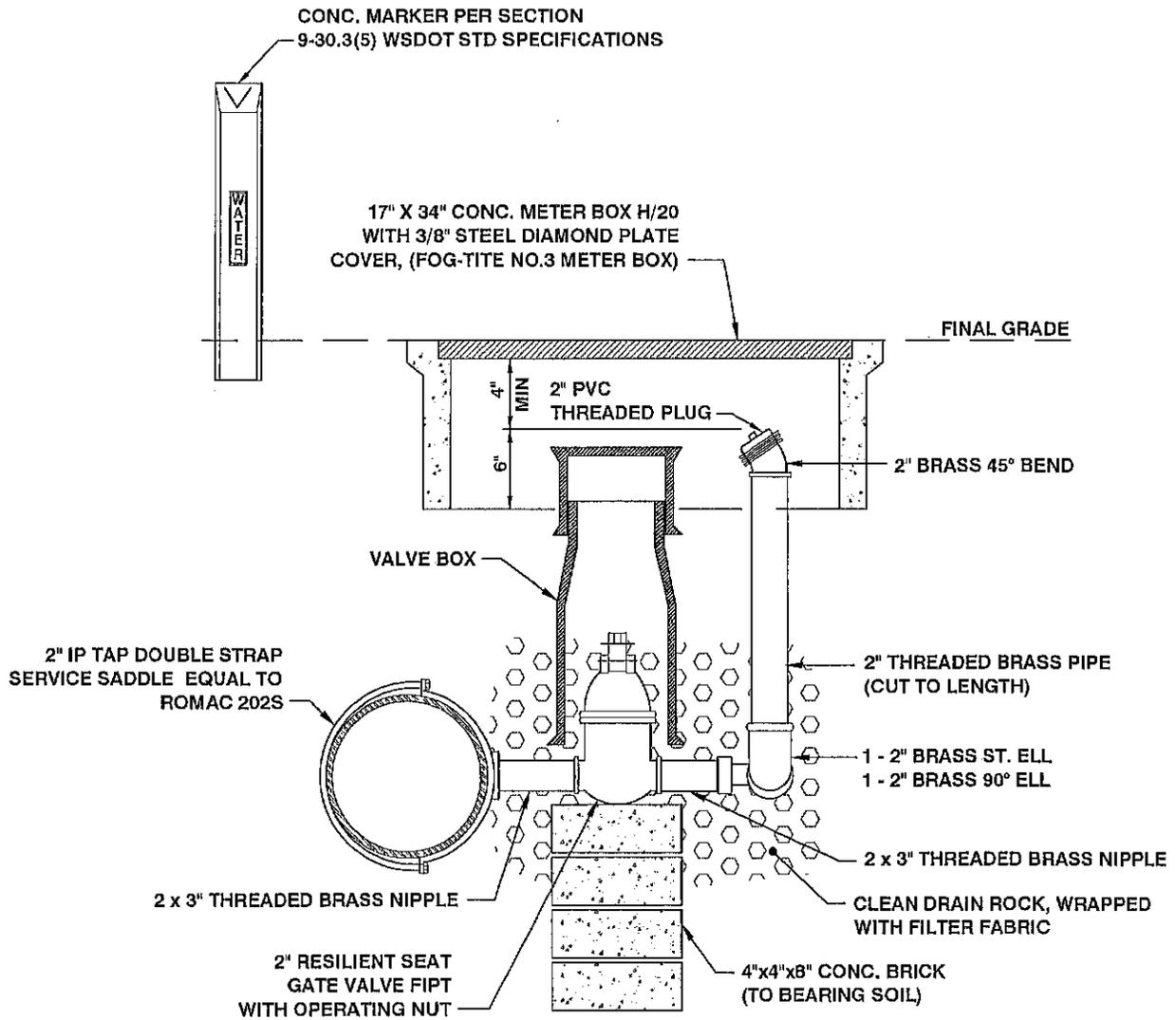
DRAWING NOT TO SCALE



AIR AND VACUUM ASSEMBLY

STD PLAN NO: W-7

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer



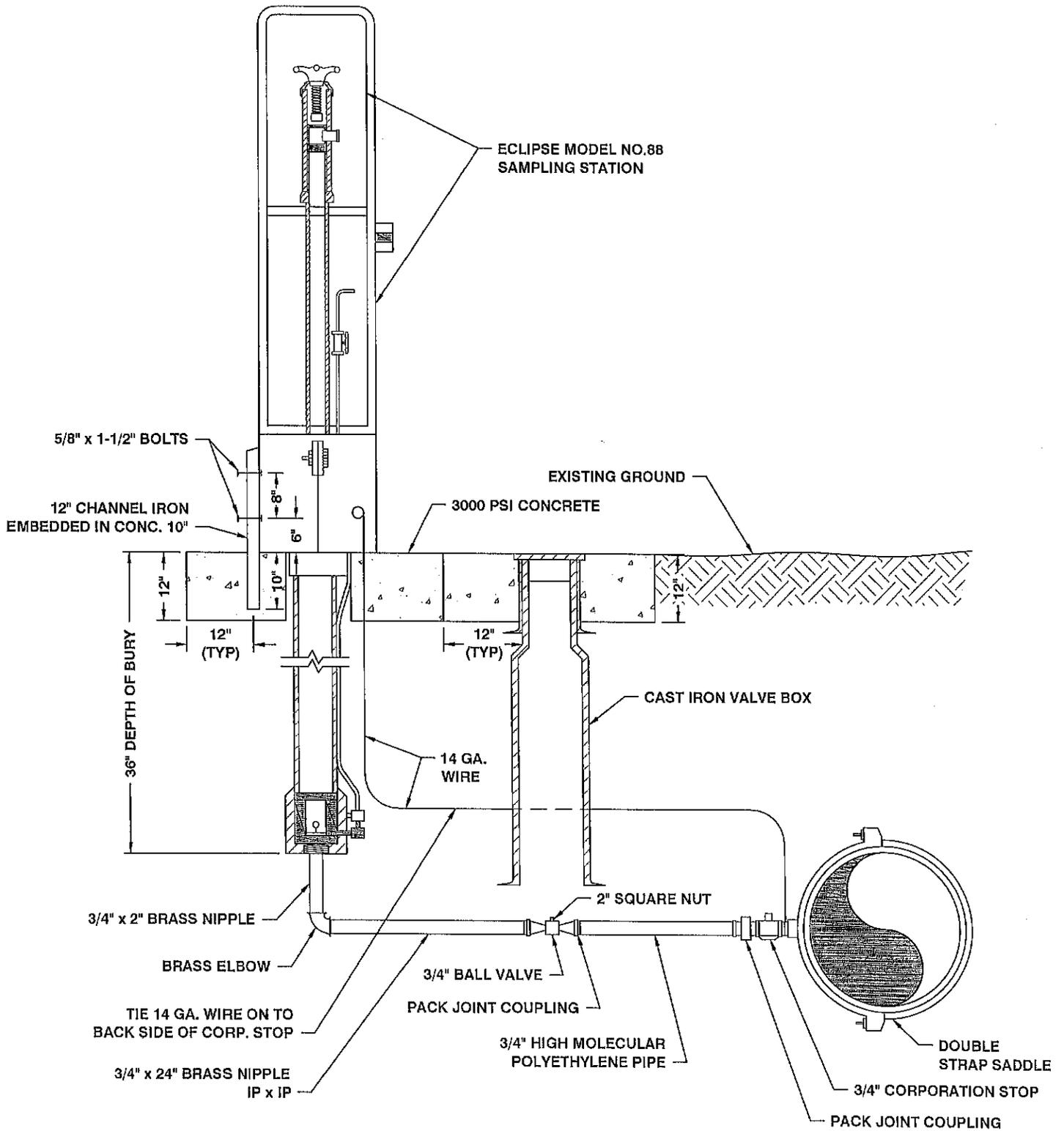
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BLOWOFF ASSEMBLY

STD PLAN NO: W-8



APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer



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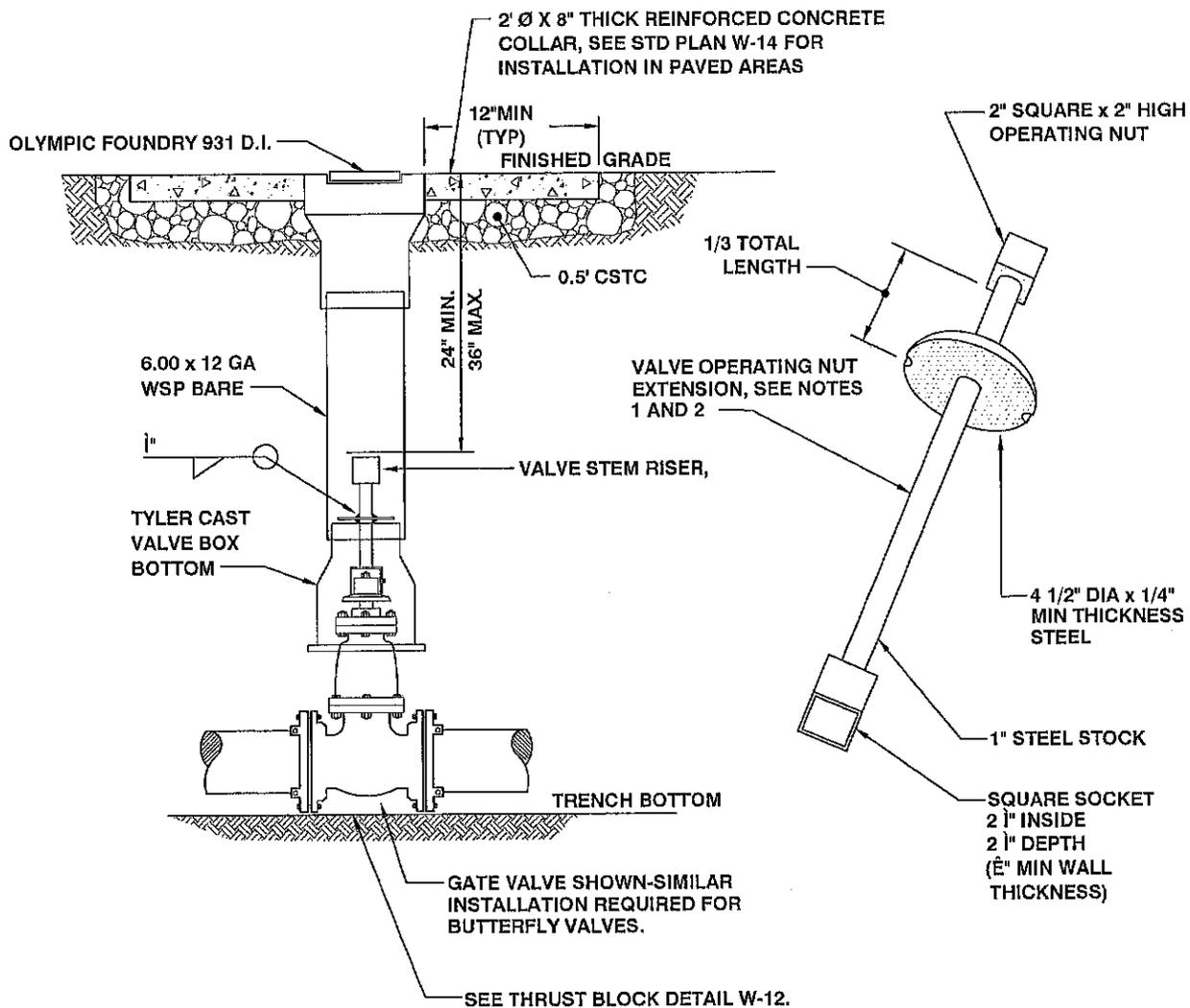
WATER SAMPLING STATION

STD PLAN NO: W-9



APPROVED BY: _____ REVISED DATE: _____

Lewis County Engineer



NOTES:

1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN THREE FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE FOOT LONG. ONLY ONE EXTENSION WILL BE ALLOWED PER VALVE.
2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF ENAMEL PAINT.

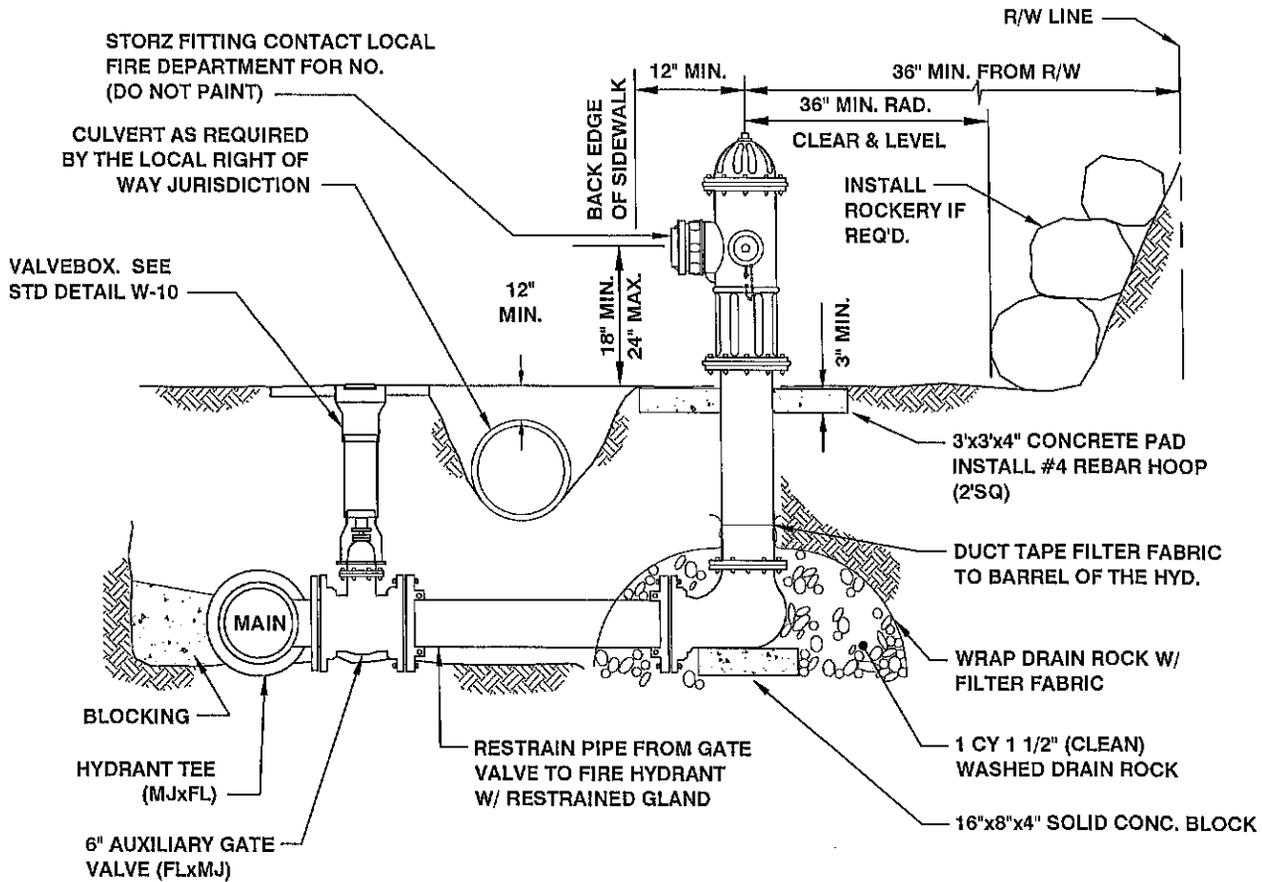
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VALVE BOX DETAIL

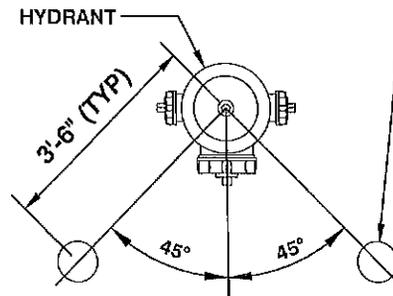
STD PLAN NO: W-10



APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



INSTALL BOLLARDS AS DIRECTED. TOP OF BOLLARD TO BE LEVEL W/ TOP OF HYDRANT OPERATING NUT.



NOTES:

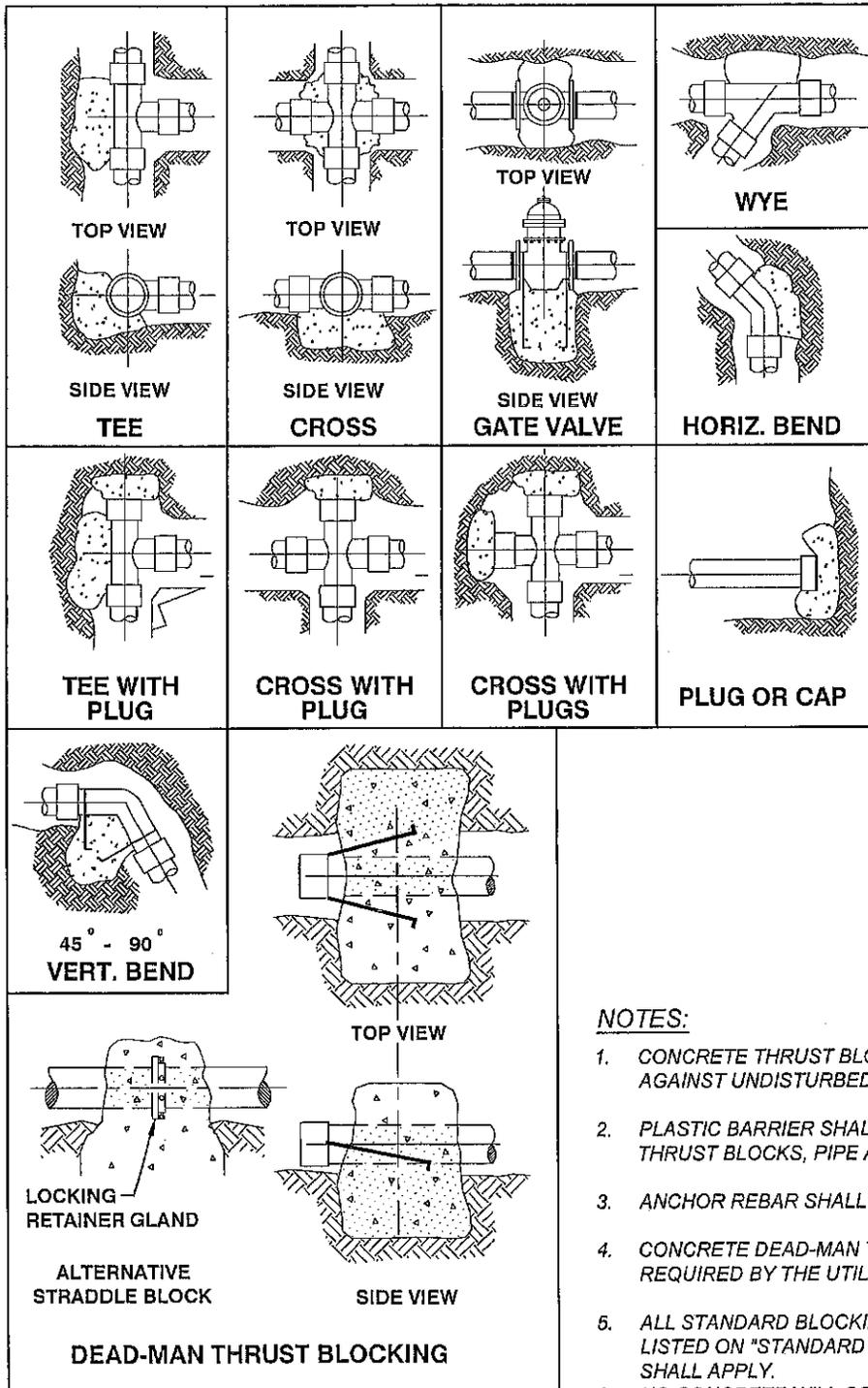
1. PROVIDE LEVEL ACCESS TO FIRE HYDRANT.
2. FIRE HYDRANTS, BOLLARDS & VALVE BOX LIDS TO BE PAINTED WITH TWO COATS ALKYD GLOSS ENAMEL OF A COLOR DETERMINED BY THE UTILITY.

DRAWING NOT TO SCALE



FIRE HYDRANT INSTALLATION STD PLAN NO: W-11

APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer



NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. PLASTIC BARRIER SHALL BE PLACED BETWEEN ALL THRUST BLOCKS, PIPE AND FITTINGS.
3. ANCHOR REBAR SHALL BE 5/8" MINIMUM DIAMETER.
4. CONCRETE DEAD-MAN THRUST BLOCKING MAY BE REQUIRED BY THE UTILITY.
5. ALL STANDARD BLOCKING AND THRUST CRITERIA AS LISTED ON "STANDARD THRUST LOADS DETAIL" W-13 SHALL APPLY.
6. NO CONCRETE WILL COME IN CONTACT WITH ANY MECHANICAL JOINTS.

DRAWING NOT TO SCALE

STANDARD BLOCKING DETAIL STD PLAN NO: W-12



APPROVED BY: _____ REVISED DATE: _____
 Lewis County Engineer

THRUST LOADS

THRUST AT FITTINGS IN POUNDS AT 200 POUNDS PER SQUARE INCH OF WATER PRESSURE

PIPE DIAMETER	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	DEAD END OR TEE
4"	3,600	2,000	1,000	500	2,600
6"	8,000	4,400	2,300	1,200	5,700
8"	14,300	7,700	4,000	2,000	10,100
10"	22,300	12,100	6,200	3,100	15,800
12"	32,000	17,400	8,900	4,500	22,700
14"	43,600	23,600	12,100	6,100	30,800
16"	57,000	30,800	15,700	7,900	40,300

NOTES:

1. BLOCKING SHALL BE COMMERCIAL CONCRETE CLASS POURED IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE ISOLATED FROM CONCRETE THRUST BLOCK WITH PLASTIC OR SIMILAR MATERIAL.
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (S.F.):EXAMPLE: 12" - 90 DEG. BEND IN SAND AND GRAVEL.
32,000 LBS : 3000 LB/S.F. = 10.7 S.F. OF AREA
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
5. BLOCKING FOR PIPES LESS THAN 4" DIA. WILL USE 4" PIPE VALUES.

SAFE SOIL BEARING LOADS

FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET

SOIL	POUNDS PER SQUARE FOOT
MUCK, PEAT	0
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

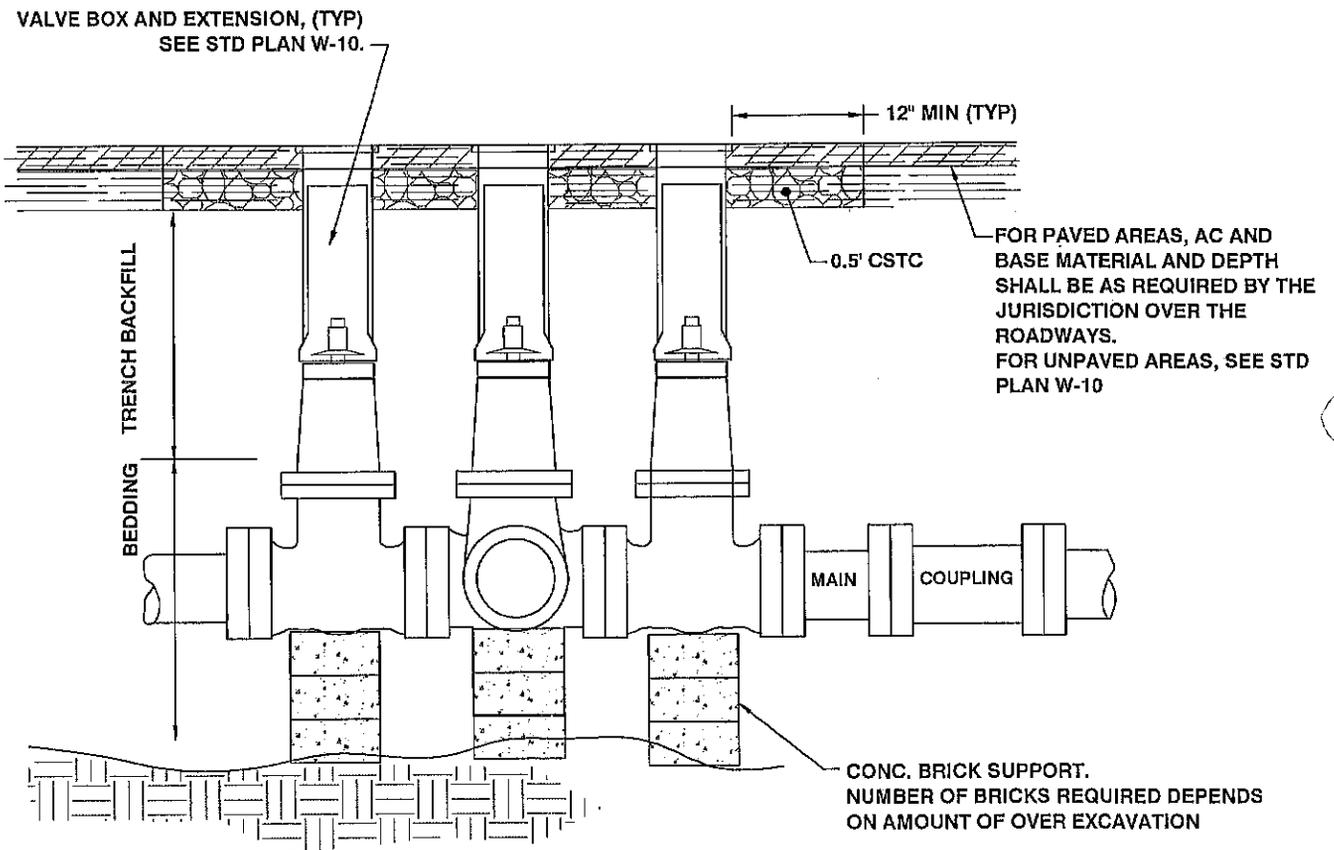
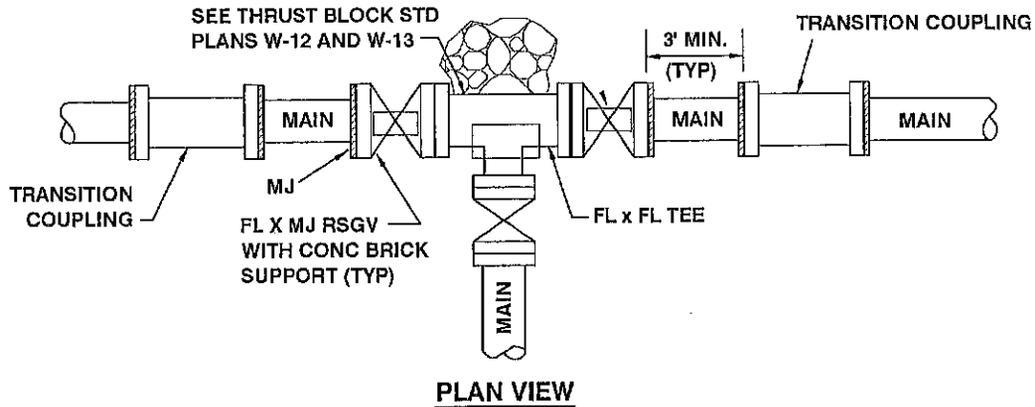
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STANDARD THRUST LOADS

STD PLAN NO: W-13

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer



NOTES:

1. COMPACTION OF BEDDING AND TRENCH BACKFILL SHALL BE PER STD PLAN W-1.

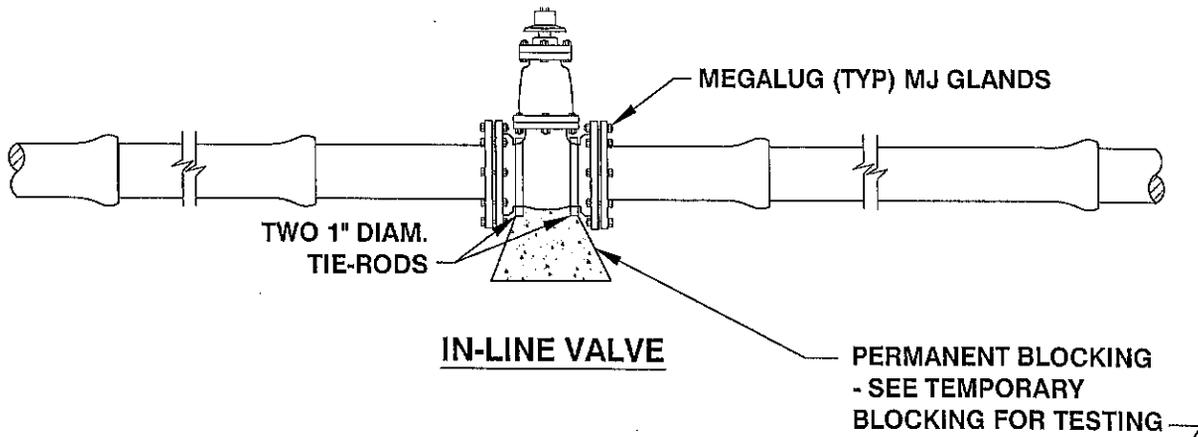
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CONNECTION TO MAIN

STD PLAN NO: W-14

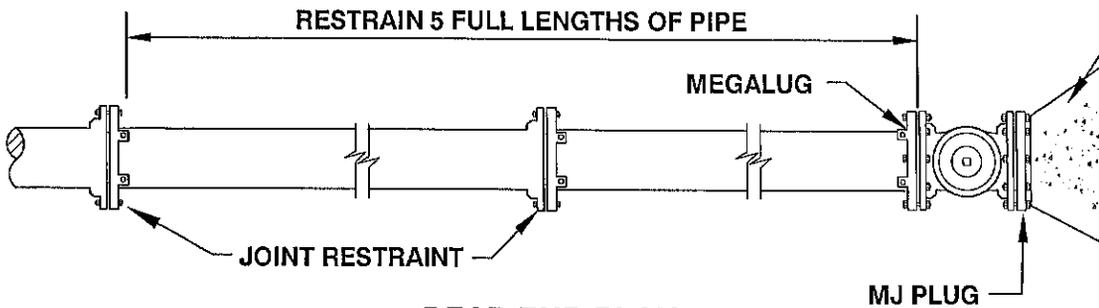


APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer

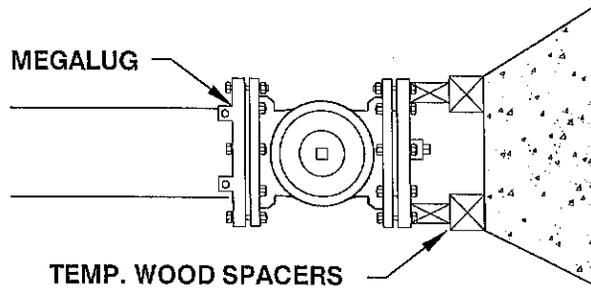


IN-LINE VALVE

PERMANENT BLOCKING
- SEE TEMPORARY
BLOCKING FOR TESTING



DEAD END PLAN



TEMPORARY BLOCKING

NOTES:

1. ADDITIONAL RESTRAINT IS REQUIRED ON DEAD ENDS WITH POOR GROUND CONDITIONS.
2. MEGALUGS (EBAA IRON OR EQUAL) SHALL BE INSTALLED ON ALL INDICATED MECHANICAL JOINTS.
3. SEE STANDARD DETAIL W-12 FOR BEND BLOCKING REQUIREMENTS.

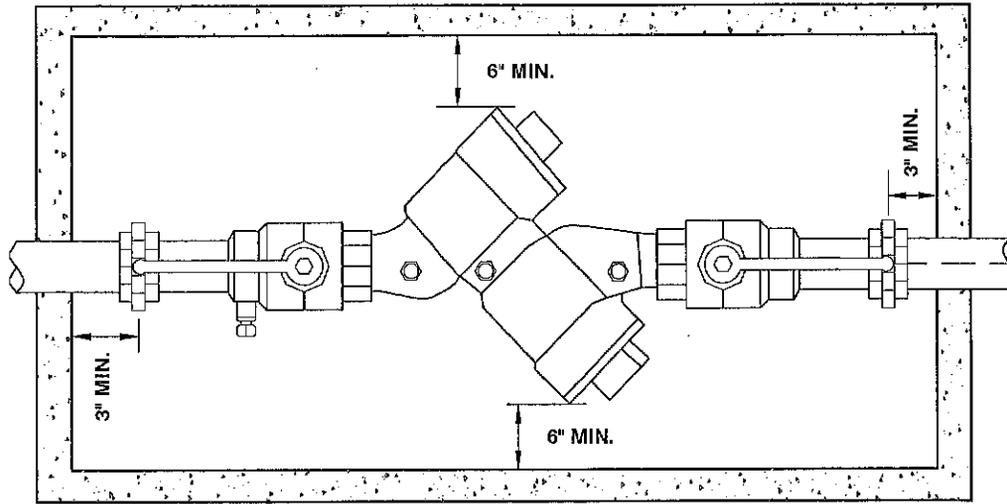
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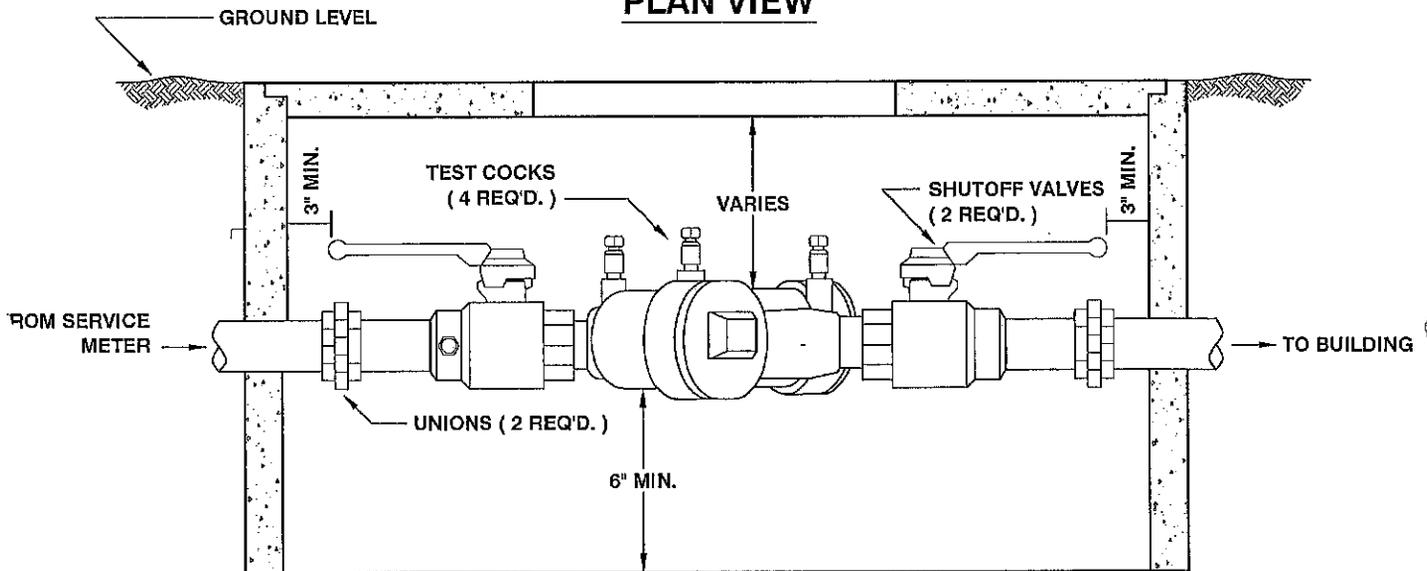
**VALVES AND RESTRAINT
REQUIREMENT**

STD PLAN NO: W-15

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer



PLAN VIEW



NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY SHALL BE DOH APPROVED MODEL.
2. VAULT SHALL BE ADEQUATELY SIZED FOR TESTING, REPAIR, AND MAINTENANCE.
MINIMUM BOX SIZE :
- 3/4" TO 1" ASSEMBLIES: 10" X 13"
- 1-1/4" TO 2" ASSEMBLIES: 14" X 20"
3. INSTALL WITH TEST COCKS FACING UP OR TO ONE SIDE.
4. BE AWARE OF THERMAL EXPANSION DANGER.

DRAWING NOT TO SCALE

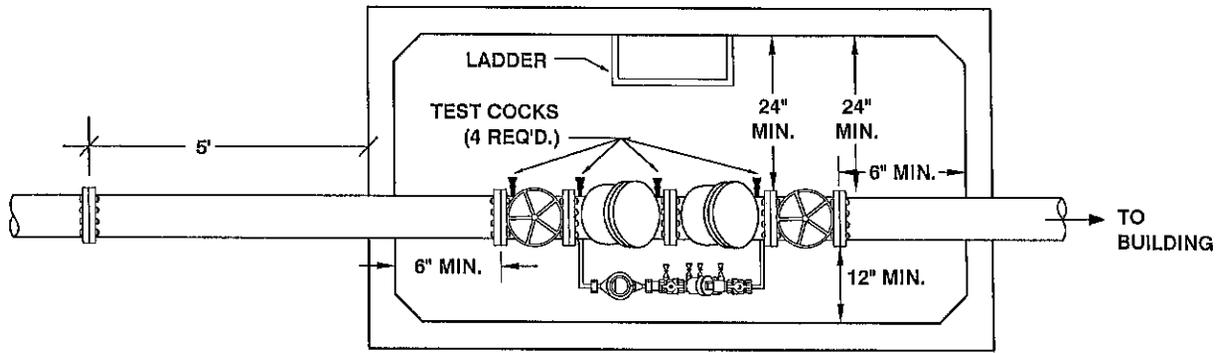


**DOUBLE CHECK
DETECTOR ASSEMBLY
(2" OR SMALLER)**

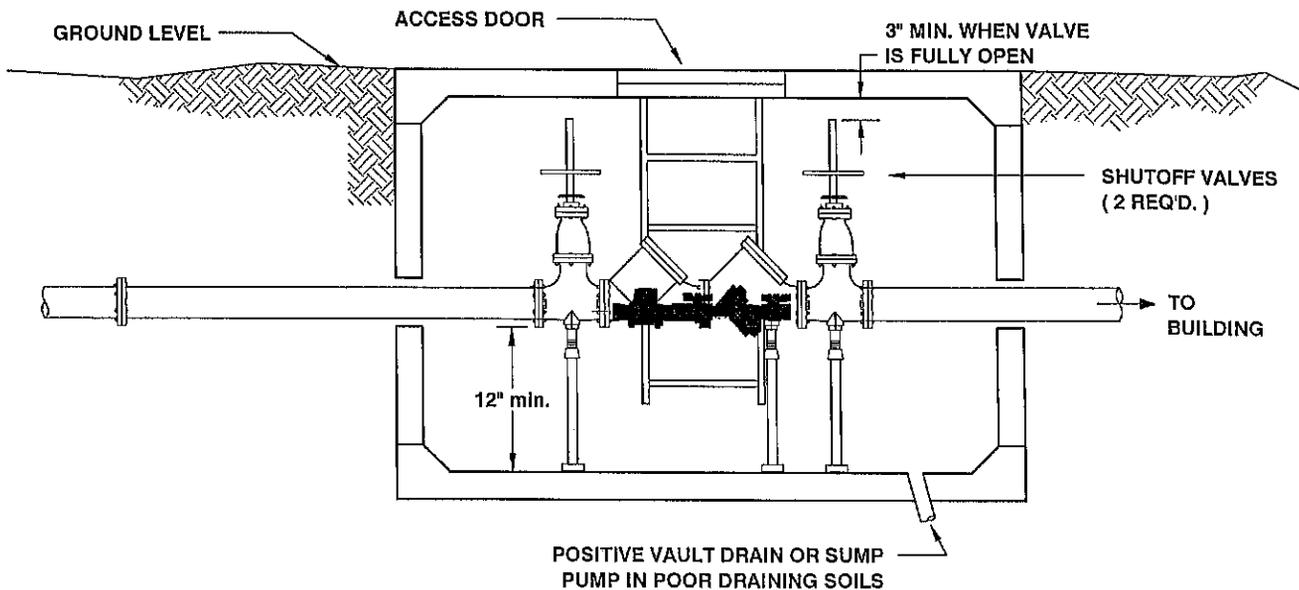
STD PLAN NO: W-16

APPROVED BY: _____ REVISED DATE: _____

Lewis County Engineer



PLAN VIEW



MATERIAL LIST:

1. DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE DOH APPROVED MODEL.
2. SUPPORT STANDS
3. STANDARD CONCRETE VAULT WITH BOTTOM AND DIAMOND PLATED, ALUMINUM LID WITH HINGED, LOCKABLE DOUBLE DOOR.

DRAWING NOT TO SCALE

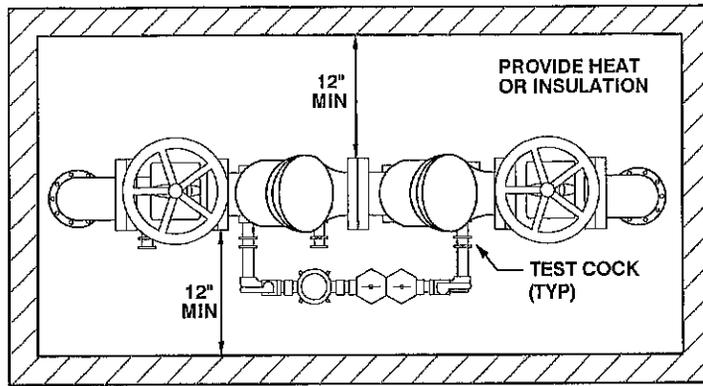


**DOUBLE CHECK DETECTOR ASSEMBLY
(3" OR LARGER) BELOW GROUND**

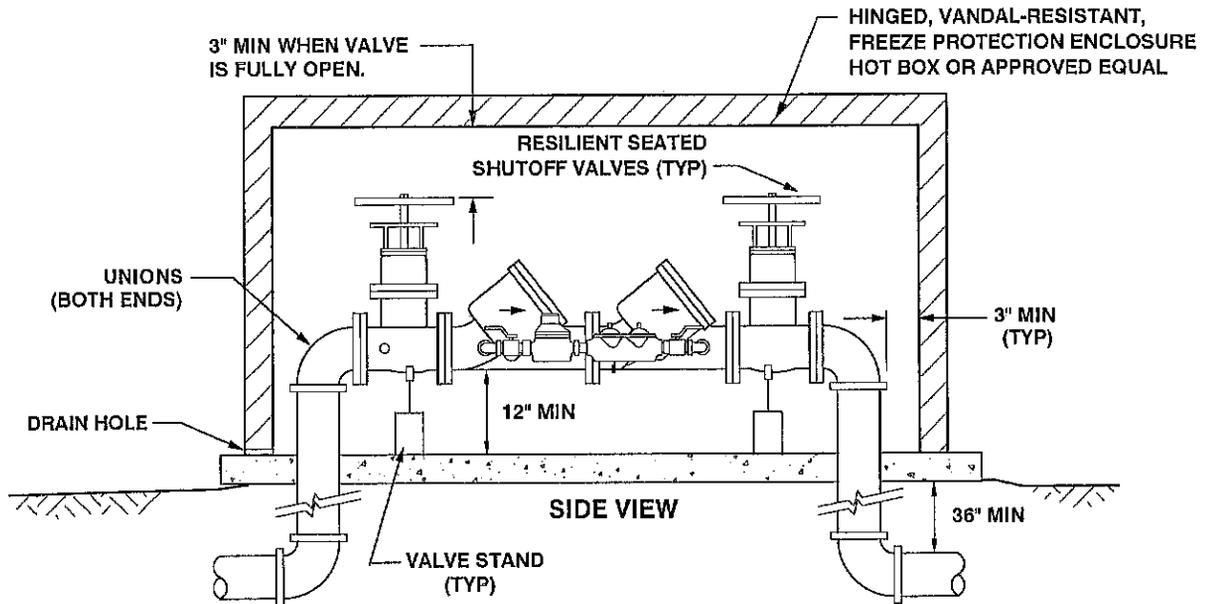
STD PLAN NO: W-17

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer

A UTILITY APPROVED VALVE IS REQ'D BETWEEN THE SUPPLY MAIN AND THE ENCLOSURE



TOP VIEW



ABOVE GROUND INSTALLATION

NOTES:

1. DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY SHALL BE DOH APPROVED MODEL WITH 4 TEST COCKS AND A RESILIENT SEATED SHUT OFF VALVE MOUNTED AT EACH END.
2. THE BACKFLOW ASSEMBLY SHALL BE TESTED AFTER INSTALLATION BY A CERTIFIED BACKFLOW ASSEMBLY TESTER PRIOR TO UTILITY ACCEPTANCE. ANNUAL TESTING IS REQUIRED THEREAFTER.
3. ALL PIPE, VALVE, AND FITTING JOINTS FROM THE SUPPLY MAIN, SHALL BE FLANGED AND RESTRAINED.
4. THE WATER LINE SHALL BE DISINFECTED, FLUSHED, AND PRESSURE TESTED PRIOR TO INSTALLING THE BACKFLOW ASSEMBLY.
5. THE BACKFLOW ASSEMBLY SHALL BE PROTECTED FROM FREEZING AND FLOODING.
6. THE PIPE ENTRANCE AND EXIT SHALL BE SEALED TO BE WATER TIGHT.
7. ALL ENCLOSURES SHALL BE PRE-APPROVED BY THE UTILITY, PRIOR TO INSTALLATION.
8. ENCLOSURES SHALL BE INSTALLED ABOVE GROUND AT PROPERTY LINE ON OWNERS PROPERTY.
9. ENCLOSURES SHALL HAVE A MINIMUM OF 3' CLEARANCE FROM ALL STRUCTURES.
10. VALVE STANDS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

DRAWING NOT TO SCALE



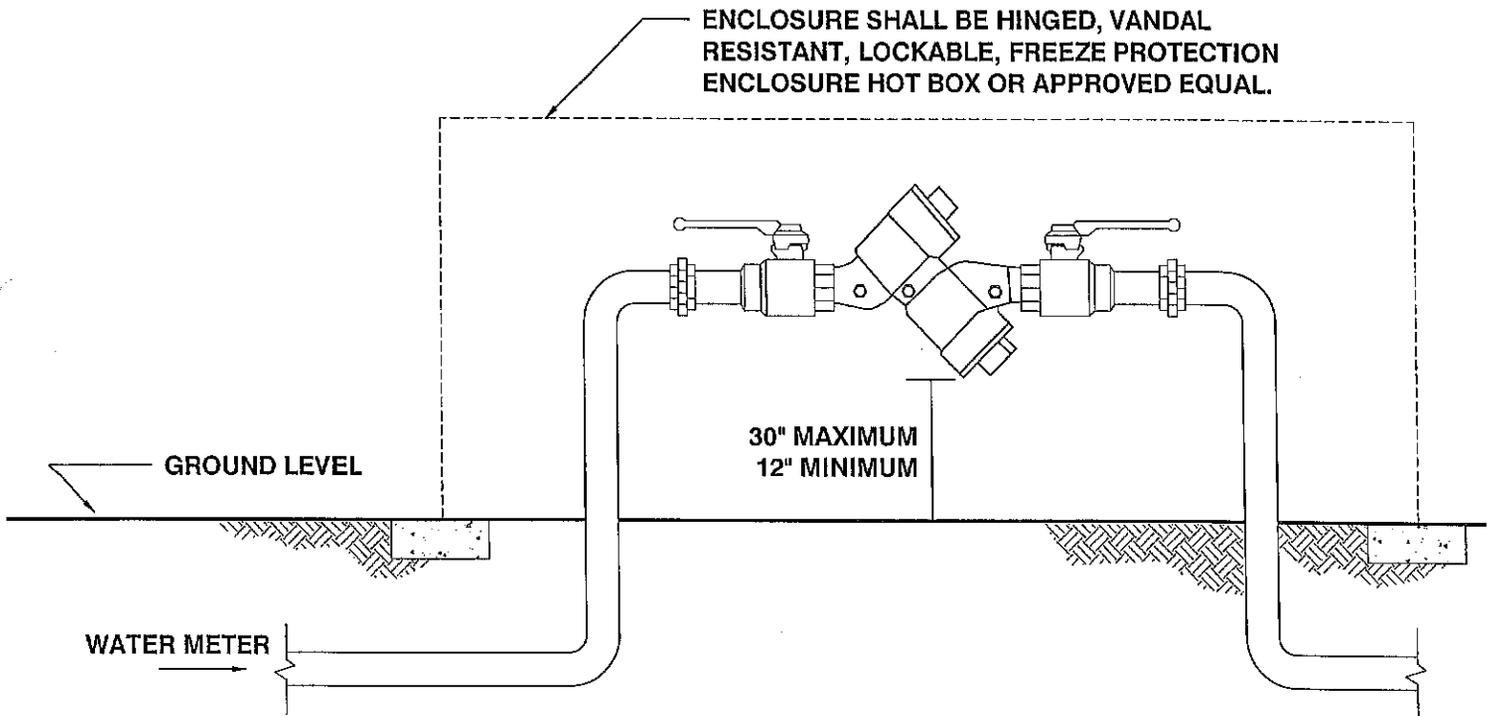
**DOUBLE CHECK
DETECTOR ASSEMBLY
(3" OR LARGER) ABOVE GROUND**

STD PLAN NO: W-18

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer

NOTES:

1. REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE DOG APPROVED MODEL.
2. ENCLOSURE SHOULD BE ADEQUATELY SIZED FOR TESTING, REPAIR & MAINTENANCE.
3. ENCLOSURE SHALL BE CONSTRUCTED WITH ADEQUATE DRAIN FOR RELIEF VALVE DISCHARGE.
4. VERTICAL OR BELOW GROUND INSTALLATIONS ARE NOT ACCEPTABLE.
5. BE AWARE OF THERMAL EXPANSION DANGER.



DRAWING NOT TO SCALE

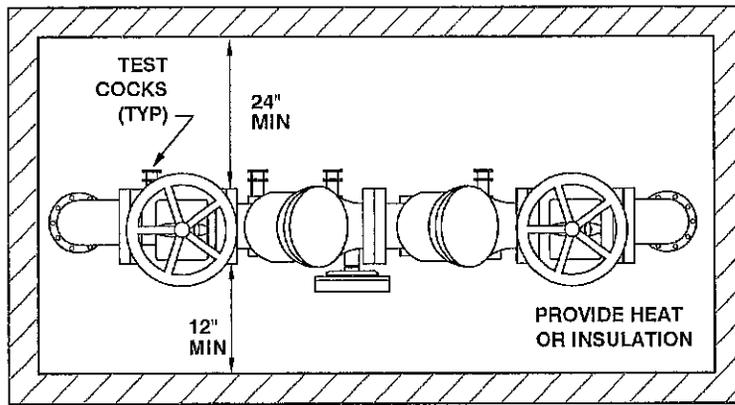


**REDUCED PRESSURE
BACKFLOW ASSEMBLY
(2" OR SMALLER)**

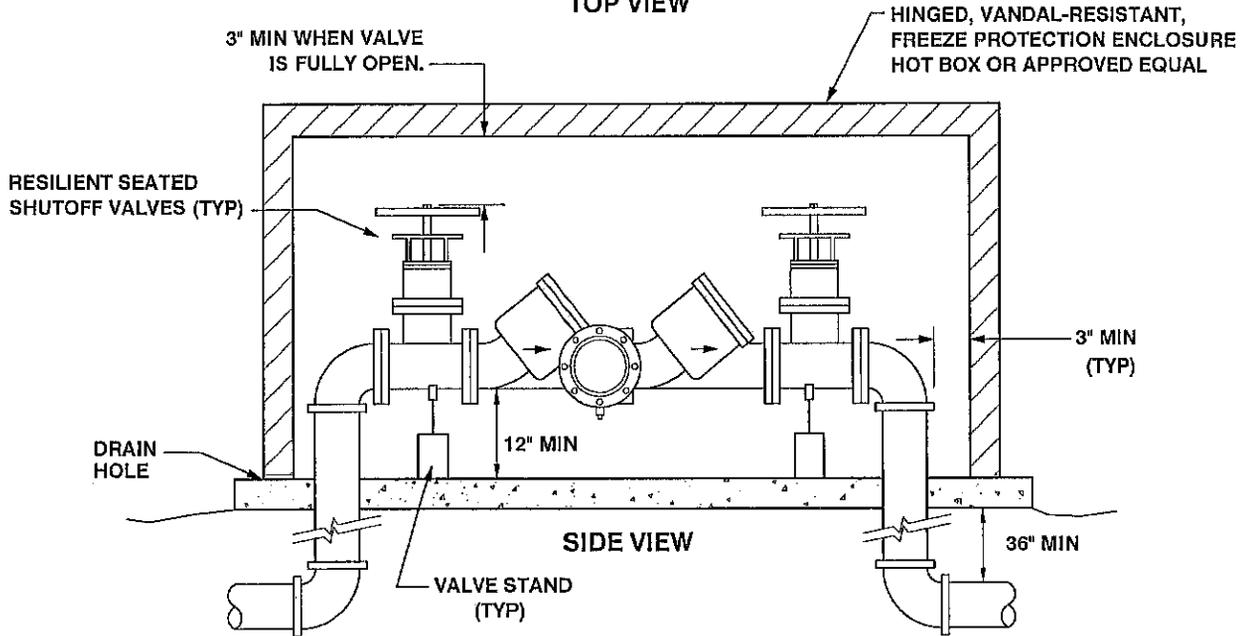
STD PLAN NO: W-19

APPROVED BY: _____ REVISED DATE: _____
Lewis County Engineer

A UTILITY APPROVED VALVE IS REQ'D. BETWEEN THE SUPPLY MAIN AND THE ENCLOSURE.



TOP VIEW



SIDE VIEW

ABOVE GROUND INSTALLATION

NOTES:

1. BACKFLOW ASSEMBLY SHALL BE A WASHINGTON STATE DEPT. OF HEALTH APPROVED MODEL.
2. APPROVED BACKFLOW ASSEMBLY TO LAY HORIZONTAL ONLY.
3. THE BACKFLOW ASSEMBLY SHALL BE TESTED AFTER INSTALLATION AND PRIOR TO ACCEPTANCE BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. ANNUAL TESTING IS REQUIRED THEREAFTER. TEST RESULTS SHALL BE SENT TO THE UTILITY.
4. ALL PIPE, VALVE, AND FITTING JOINTS FROM THE SUPPLY MAIN, SHALL BE FLANGED AND RESTRAINED.
5. THE WATER LINE SHALL BE DISINFECTED, FLUSHED, AND PRESSURE TESTED PRIOR TO INSTALLING THE BACKFLOW ASSEMBLY.
6. THE BACKFLOW ASSEMBLY SHALL BE PROTECTED FROM FREEZING AND FLOODING.
7. SEAL PIPE ENTRANCE AND EXIT, THROUGH ENCLOSURE, SO AS TO BE WATER TIGHT.
8. ALL ENCLOSURES SHALL BE PRE-APPROVED BY THE UTILITY PRIOR TO INSTALLATION.
9. ENCLOSURES SHALL BE INSTALLED AT PROPERTY LINE ON OWNERS SIDE.
10. ENCLOSURES SHALL HAVE A MINIMUM OF 3' CLEARANCE FROM ALL STRUCTURES.
11. VALVE STANDS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
12. TEST COCKS SHALL BE LOCATED SO AS TO FACILITATE ACCESS.

DRAWING NOT TO SCALE



REDUCED PRESSURE BACKFLOW ASSEMBLY (3" OR LARGER)

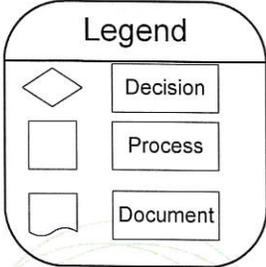
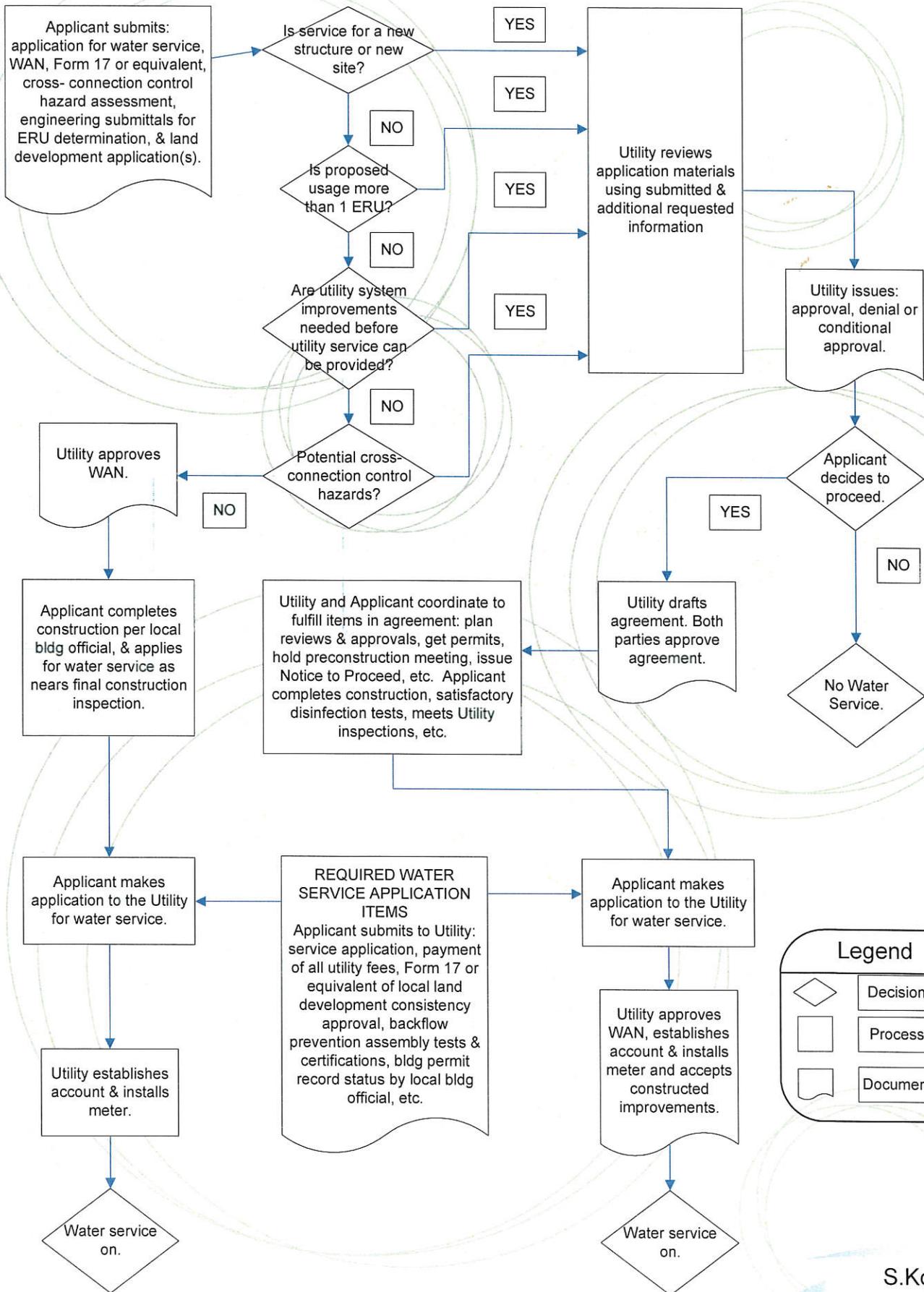
STD PLAN NO: W-20

APPROVED BY: _____ REVISED DATE: _____

Lewis County Engineer

Water Utility Service

Associated with Land Development Activities



LEWIS COUNTY COMMUNITY DEVELOPMENT
WATER AVAILABILITY NOTIFICATION (WAN) - MUNICIPAL PUBLIC WATER SUPPLY

(Please Print)

WAN #: _____ Development Permit No.: _____

PROPERTY LOCATION: _____

Applicant's Name [as listed on application] _____

Applicant's Mailing Address: _____
Street

City _____ Zip _____

Type of development to be supplied by the Municipal Water System:

Single-family residential Multi-family residential Commercial Other (describe) _____

Number of connections necessary for proposal _____

Note: Certification of water availability by a municipal water provider only indicates that water adequate for the above proposed use is available on the date of certification. It is the responsibility of the developer to assure that all fees are paid and all other requirements are met for connection to the water system. Neither the Municipal water purveyor nor the County can guarantee future water connection until all fees are paid and all other requirements for connection are met.

Signature of Applicant _____ Date: _____

Note: A fee may be charged by the municipal water purveyor for review of this application.

Municipal Public Water Supply Availability *(To be completed by a water purveyor.)*

System Name: _____ ID # _____

Membership/Account# _____ Total WSDOH approved connections _____

Total number of connections currently being served _____

This system is capable of and will supply water to: (check one /fill in the blanks)

Tax Parcel # _____ Lot(s) or Space(s) # _____

Short Plat # _____ Lot(s) or Space(s) # _____

This property is located at the address listed at the top of this page and the proposed use is indicated.

On this date, municipal water, adequate for the proposed use indicated above, is available for the above project/use, consistent with the systems approved water plan, per WAC 246-290 or WAC 246-291. Connection to the system requires that all fees are paid and all other requirements shall be met by the applicant. Compliance and consistency with adopted water plans, regulated by the state DOH, is the responsibility of the municipal water purveyor.

Certified by (Signature/ Title): _____ Date: _____

Address _____ Phone Number _____

NOTE: Availability of water does not guarantee the granting of a building or sewage permit. Unsuitable soils or site may result in denial of sewage and/or building permits.