

Ashley Valley Water and Sewer Improvement District

609 W. Main, P.O. Box 967 Vernal Utah 84078
435-789-9400~Fax 435-789-5754

Ryan Goodrich~rgoodrich@avwsid.com

Information Packet for Subdivision Projects

To whom it may concern:

Ashley Valley Water and Sewer is a special service district of the State of Utah. As such there are certain restrictions imposed that limit the District's ability to expand and grow, without going through the proper agencies and procedures.

In an effort to help you, the developer, help us meet these regulations we are providing you with a packet of information that will help in the design, construction, and final approval of all improvements being proposed and implemented.

We encourage you to take time and review all of the relevant pages in the packet and contact us if you have any questions or concerns. Please note that these design and constructions standards help ensure that the district, and you, are meeting the federal and state requirements in regard to water and sewer systems.

We would like to thank you for your efforts to research water and sewer availability prior to submitting building and design plans. We are here to help in any way that we can, so please feel free to contact one of the staff at 435-789-9400.

Sincerely;



Ryan Goodrich
District Manager
435-789-9400
rgoodrich@avwsid.com

Water line specification from the meter to the dwelling:

Water Meter barrel **cannot be installed** in sidewalks, driveways or where snow removal will expose the meter to freezing. Plan where on your lot you want the water meter to be installed and mark or stake that spot on property line.

Water line shall be HDPE 200 PSI SDR 9 ASTM D2737. Service line shall be copper tube size Polyethylene. (The service line can be type K copper tubing or iron pipe size polyethylene.)

The owner's service line should connect to the line stubbed out of the meter barrel with a union or coupling to match the line size.

Select bedding is required in pipe zone,

Buried to a depth of 5' Minimum after transition from meter depth

Brass pipe fittings are required for connections installed underground.

International Plumbing code and Uintah County standard should be followed on service line entering the dwelling.

An accessible inline shut off valve and pressure reducing valve is required after service line enters dwelling.

Sprinkling System Connection:

A shutoff valve and a means to drain system lines below frost line required.

To protect the water system from a backflow incident a backflow assembly is required at the point of entry of the sprinkling system.

The only approved backflow assemblies allowed are, a Reduced Pressure Principle (RP), or a Pressure Atmosphere Vacuum Breaker (PVB). The assembly is required to be tested annually and a copy of the test report given to Ashley Valley Water & S.I.D.

(see attached drawings)

Sewer Lateral Construction Requirements

Sewer Lines, Man Holes and fittings:

(This is a basic summary of specification, detailed spec. available)

Sewer Line:

Line size minimum; 8" mainline 4" lateral, PVC SDR 35 ASTM D-3034 sewer pipe

All fitting shall be gasket or solvent weld joint PVC SDR 35 ASTM D-3034

Select or Gravel bedding is required in pipe zone. An over excavated trench requires compacted backfill or gravel under pipe.

Cleanout required at dwelling, after each 90° change of direct or combination of bends equaling 90° and at property line, back of sidewalk, Public Utility Easement or planter strip. The cleanout shall be locatable with a brass threaded plug and installed tracer wire.

The typical slope on service lateral is 2% (2 ¼" drop per 10' of pipe.) ***A backwater valve is required on any drain line that has an elevation which is lower than the rim elevation of the nearest street manhole down stream.***

Sewer inspection by Ashley Valley Water and Sewer Improvement District must be completed before occupancy permit will be granted through Uintah County.

General Specification for Subdivision Contractors

Water and Sewer Construction Requirements

Water Lines and fittings:

(This is a basic summary of specification, detailed spec. available)

Water line:

8" Minimum size main Class 200 PVC IPS ASTM 2241 DR 21 and 12" C900 DR 18 and 14" and above shall be C905 DR 21.

Hydrostatic tested to 150 psi for 2 hours

Disinfected in accordance with AWWA standard C 651

Bacteriologic analysis and State of Utah approved operating permit.

Select bedding pipe zone, 5' Minimum cover, 95% Compaction with #12 copper direct buried tracer wire which day-lights at back of fire hydrants and warning ribbon 24" above pipe. Submit full as-built drawings, size 11" x 17", of subdivision showing lot numbers and addresses. A State of Utah Division of Drinking Water plan approval and approved operating permit is required before line can be put in service.

Fittings:

Ductile Iron Mechanical joint, with A307 Blue bolts, or flange fittings with restrain joint fitting on all connections. Romac Grip Ring or Roma Grip restraint plus concrete thrust blocks on tees and hydrants. Polyethylene Encasement required on all valves and fittings. Valves shall be Epoxy coated ductile iron body, with stainless steel trim bolts, resilient wedge design, and non rising stem. Intersections shall have a 3 way Valve Tee and an inline valve for every 1000' of pipe run. Two part valve box and cover on all valves. Connection to an existing main is to be by direct tap only.

Fire Hydrants:

6" size, 6' buried flange shoe with a MJ by flange valve at hydrant.

Only Hydrants allowed are Waterous Pacer or Kennedy K81, with stainless steel trim bolts.

Hydrants are to be spaced so dwellings are within 500' of hydrant and are required on all dead-end lines. A post indicator valve is required on fire sprinkler supply lines.

Service Connection and fittings:

Brass tap saddle tapped through a Corporation stop.

¾" or 1" copper tube size Polyethylene 200 psi service line

Mueller 110 compression type joint on all fittings (or equivalent), brass pipe fittings, all brass must meet the no lead requirement.

Curb stop valve at meter setter, full 24" meter setter with locking angle meter stop and dual check backflow assemble. 18" or 20" by 36" meter barrel with a 2" knockout hole in cover. **Meter Barrel cannot be installed in sidewalks, driveways or where snow removal will expose the meter to freezing.**

Requirements check list for Water System

The construction requirements check list for a Water system to meet Ashley Valley Water & S.I.D. standards.

- Plan approval or a request waiving of plan submittal from the State Division of Drinking Water before start of construction.
- Hydraulic study to evaluate the impact on the Water System to meet required pressure standards.
- District plan approval and signed line extension agreement.
- Water main line minimum size of 8" and is Class 200 IPS PVC DR 21.
- Connections to existing mains by direct tap to main water line.
- Construction requirements and standards met as to buried depth, fire hydrants, fire flow tests and other installation requirement.
- Required Fittings and valves with restrain joint, polyethylene encasement, and tracer wire.
- Hydrostatic test to 150 PSI for 2 hours.
- Disinfected in accordance with AWWA standard C 61.
- Two bacteriologic analysis's for each 1200' of water line taken on 2 consecutive days 24 hours apart.
- High chlorine test, Flush and system chlorine level tests.
- Water meter barrel installation to standards.
- Final check list completed and inspector approval
- As build drawings, GPS location of valves, hydrants and ACAD dwg format file.
- State Division of drinking Water operating permit.

This line can only be put into service when the above check list has been completed and an approval letter from the District has been given.

General Sewer Specifications:

Sewer Lateral Construction Requirements

Sewer Lines, Man Holes and fittings:

(This is a basic summary of specification, detailed spec. available)

Sewer Line:

Line size minimum; 8" mainline 4" lateral, PVC SDR 35 ASTM D-3034 sewer pipe

All fitting shall be gasket or solvent weld joint PVC SDR 35 ASTM D-3034

Select or Gravel bedding is required in pipe zone. An over excavated trench requires compacted backfill or gravel under pipe.

Cleanout required at dwelling, after each 90° change of direction or combination of bends equaling 90° and at property line, back of sidewalk, Public Utility Easement or planter strip. Cleanout shall be locatable with a brass threaded plug and installed tracer wire.

Typical slope on service lateral is a minimum 2%. (2 ¼" drop per 10' of pipe) *A backwater valve is required on any drain line that has an elevation which is lower than the rim elevation of the nearest street manhole.*

Sewer inspection by Ashley Valley Water and Sewer Improvement District must be completed before occupancy permit will be granted through Uintah County.

Manhole spacing is 400' with #12 copper direct buried tracer wire and a warning ribbon 24" above line. Main is to be flushed, and air pressure tested. Air Pressure test main and laterals to 5 psi, hold 3 psi for required time for length (specification sheet available). A video inspection record and report, with DVD, and as-built drawing with the AutoCAD dwg format file and survey grade GPS location of man holes are required before approval letter will be signed.

Also must have State of Utah Water Quality Division plan approval and approved operating permit.

Manhole:

Standard 48" concrete pre cast base, barrel and eccentric cone sections with ladder rungs 12" O.C. align vertically with standard cast iron ring and vented cover. Watertight rubber boot connection at line and fiber mastic seal on all section joints.

Lift Station (No lift stations will be allowed)

Requirements check list for Sewer Collection System

The construction requirements check list for the sewer system to meet Ashley Valley Water & S.I.D. standards.

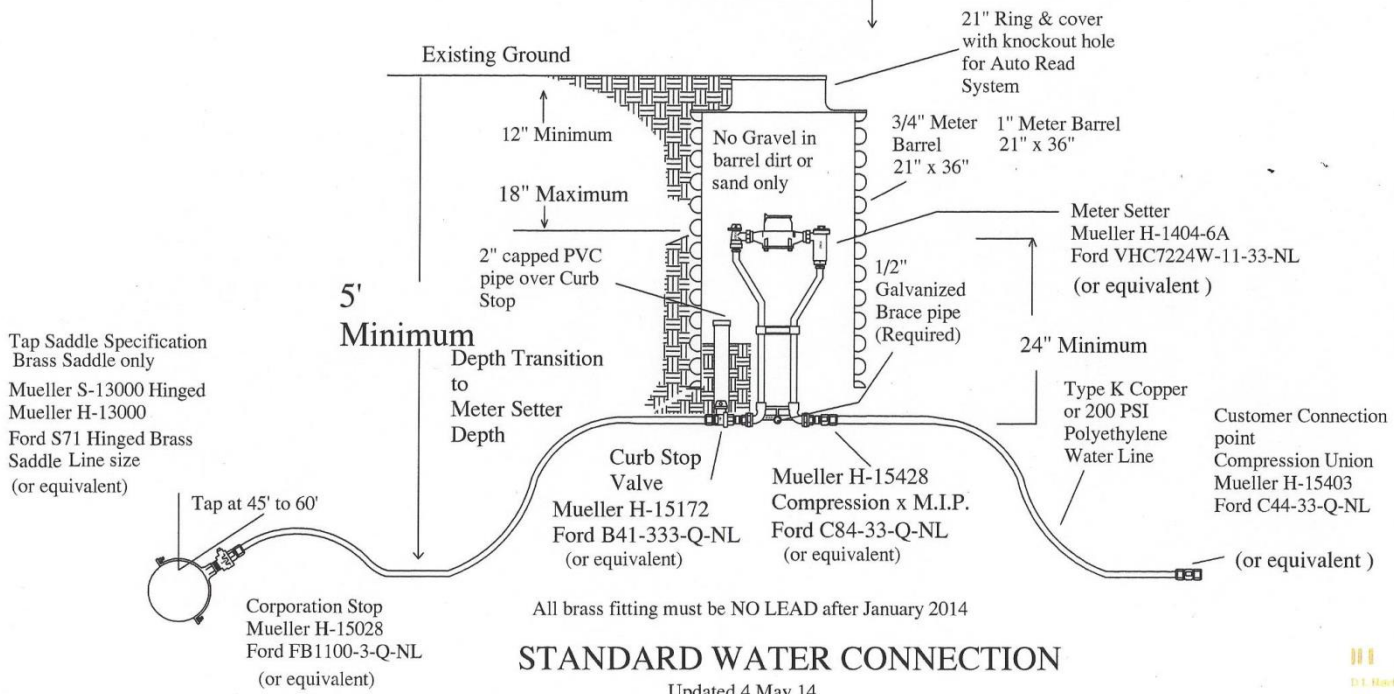
- Plan approval from the State Division of Water Quality before start of construction.
- Flow evaluation and study of impact to existing system.
- District plan approval and signed line extension agreement.
- Pipe is 8" and 4" Sewer line PVC SDR 35.
- Construction standards followed for main, manholes, and laterals.
- Static air test to 5 PSI for required time.
- Main lines flushed.
- Video inspection and DVD record and report
- Finish final check list and inspector approval
- As-build drawings, GPS manhole location and ACAD file.
- State Division of Water Quality operating permit.

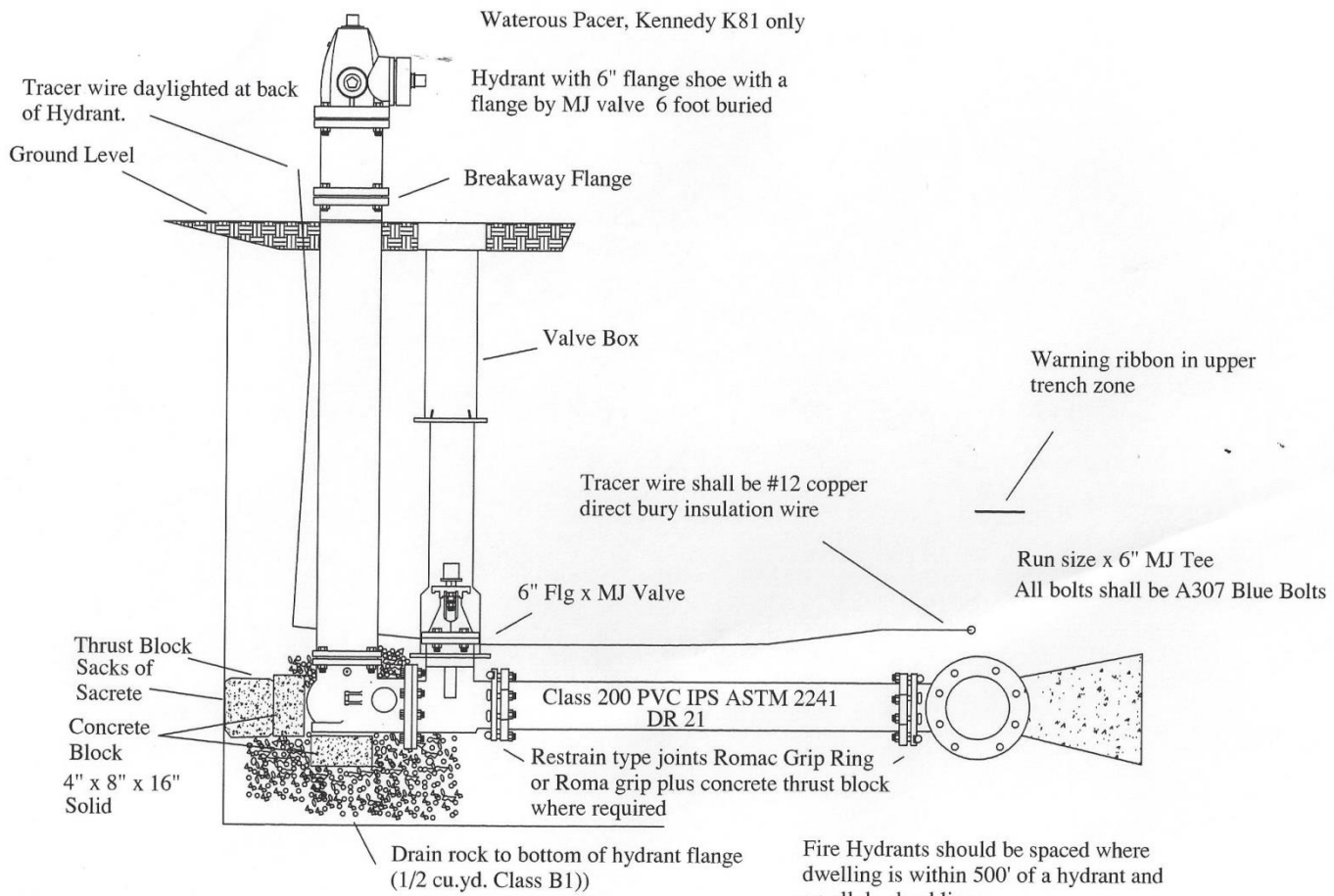
This line can only be put into service when the above check list has been completed and an approval letter from the District has been given.

Meter barrel CANNOT be installed in side walk, driveways, or where snow removal will expose meter to freezing.

Set Barrel at Property Line or back of side walk or within planter strip or 10' Utility easement

Property Line

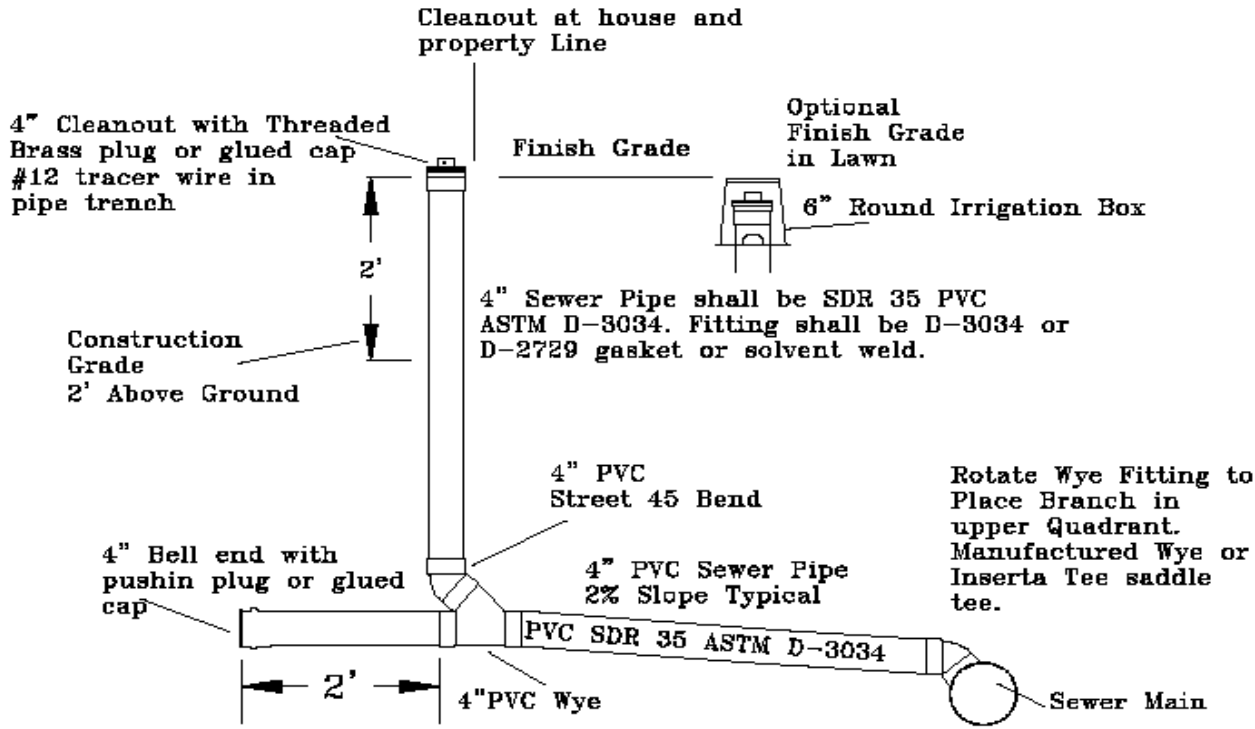




TYPICAL FIRE HYDRANT DETAIL

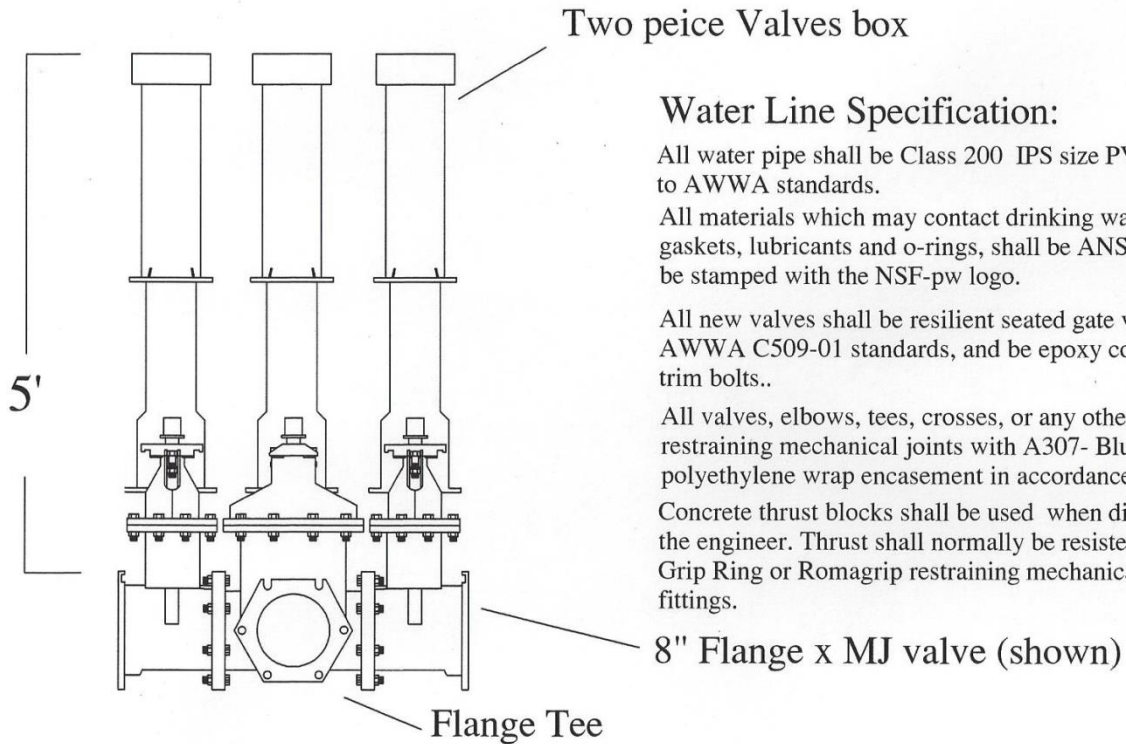
Updated 13 May 2014

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TYPICAL SEWER SERVICE CONNECTION

no scale updated 23 Jan 09



Water Line Specification:

All water pipe shall be Class 200 IPS size PVC DR21 conforming to AWWA standards.

All materials which may contact drinking water, including pipes, gaskets, lubricants and o-rings, shall be ANSI - CERTIFIED and shall be stamped with the NSF-pw logo.

All new valves shall be resilient seated gate valves conforming to AWWA C509-01 standards, and be epoxy coated with stainless steel trim bolts..

All valves, elbows, tees, crosses, or any other fitting shall have restraining mechanical joints with A307- Blue Bolts and have polyethylene wrap encasement in accordance with AWWA C-105.

Concrete thrust blocks shall be used when directed by the engineer. Thrust shall normally be resisted by ROMAC Grip Ring or Romagrip restraining mechanical joint fittings.

TYPICAL VALVE DETAIL

SHOWING THREWAY TEE