

Private Water Lines/Hydrants

Please print in Black ink only

Scope

This checklist pertains to the installation of private water lines and hydrant systems.

Minimum Requirements for Construction Drawings

Plans which do not contain the minimum information required will not be accepted for plan check. Plans shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show that it will conform to the provisions of the adopted International Codes and ordinances.

Three (3) copies of plans (24" x 36" x 42") must be submitted for review.

Copies shall **all** be the same size.

Working Drawings – scale to 1/8" = 1'.

Shall be drawn in indelible ink.

Sheets that are cut and pasted, taped, or that have been altered by any means (pen, pencil, marking pen, etc.) **will not** be accepted for plan check.

Site Plans – scale to 1" = 20" or 1" = 40"

Washington State Law requires that any registered professional who prepares or supervises the preparation of drawings and construction documents stamp and sign such documents.

Project Name

General

- | Yes | No | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Is there a construction permit application on this project? |
| <input type="checkbox"/> | <input type="checkbox"/> | Owner's name, address and telephone number. |
| <input type="checkbox"/> | <input type="checkbox"/> | Contractor's name, address, telephone and fax numbers and Washington State Contractor's license number. |

Documentation—One Set

Working Plans

- | Yes | No | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Compass direction and clearly marked scale. |

Design Plans Show the Following

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Plot plan shows pipe and pipe size to the hydrants and the building from the point of connection at the city main or water source. |
| <input type="checkbox"/> | <input type="checkbox"/> | Scale: a common scale is used and the plan information shall be legible. |
| <input type="checkbox"/> | <input type="checkbox"/> | Equipment/symbol legend is provided. |
| <input type="checkbox"/> | <input type="checkbox"/> | Current water flow test results at 20 psi residual from nearest public water supply and provide hydraulic calculations showing the available flow results for new system provided. |
| <input type="checkbox"/> | <input type="checkbox"/> | Size, type, and the location of the valves are shown. |

- Specification listing (for fire service use) sheets are provided for pipe, valves, hydrants, etc.
- Thrust block (if used) size matrix with details or calculations and details for pipes and fittings is provided and locations are shown, 10.8.2.
- Method(s) of restrained joint system is provided. If used, rod size and number of rods is detailed, 10.8.3 and Table 10.8.3.1.2.2 if used, size of restraint strap for tees is provided, Table 10.8.3.2.3. clamp and rod details is provided (1 pr of rods per clamp) and clamp size is provided, 10.8.3.1.

Valves

Yes No

- Available is at least 1 valve for each source of water supply, 6.2.1.
- Connection that is greater than 2" to public water system has control valves, but not less than 40' from the building, provide detail.
- For more than 1 source of water supply, a check valve is provided in each connection and is detailed, 6.2.3.
- Control valves are provided on each side of the check valve, 6.2.5.
- All control valves are readily accessible and free of obstructions, 6.2.10.
- Connections from water supply to the building shall be with a post indicating valve (PIV), except FDC's, 6.3.1.
- PIV installation details are provided.
- PIV's are greater than 40' from the building (see exception 6.3.3.2) and the top of the posts are 36" above grade, 6.3.3.1 and are protected from mechanical damage, 6.3.4.2.
- Valves in pits, used in lieu of PIV's, shall be detailed to show conformance with 6.4.
- Sectional valves are provided to isolate the system for repair and maintenance, 6.1.

- Each valve shall have identification signs indicating its function and what it controls, signage requirement is on the plans, 6.7.
- It is indicated how valves for water supply connection, sectional and isolation are supervised, 6.7.2.

Hydrants

Yes No

- Hydrants are the type approved for the jurisdiction.
- Hydrants shall have a minimum 6" connection to the main, 7.1.1.
- Hydrants are to be at least 40" from a building, 7.2.3, exception 7.2.4 when approved by the AHJ.
- Hydrant placing is per IFC, K.C.C.
- Detail hydrant with small stone fill to allow for drainage, 7.3.1.
- Detail hydrant, pipe connection, support, clamping and thrust blocking, 7.3.
- Center of hose outlet not less than 18" from grade, 7.3.3.
- Method of hydrant protection from mechanical damage is detailed, curbs, bollards, etc., 7.3.5.

Piping

Yes No

- Pipe is listed for the fire protection service or complies with Table 10.1.1.
- Type of pipe material is provided, 10.1.4 and method of joining pipe sections is provided, 10.3.
- Depth of pipe is detailed. Minimum depth is 2½' and 3' under vehicle traffic areas, 10.4.
- Backfill material for tamping around the pipe is specified, 10.9.
- Above ground pipe which is subject to freezing is protected to maintain at least 40°F, 10.5 & 12.2.

- Pipe exposed to corrosive conditions is protected.
- Mains passing through walls, floor, ceilings are provided clearances per NFPA 13.
- Piping is not smaller than 6" unless it is a sprinkler water supply pipe, 5.2.1 and 5.2.2, 13.1 and 13.2.
- Pipe shall not be run under buildings, see the exceptions, 10.6.1.
- All steel bolted joint assemblies shall be thoroughly coated for corrosion protection, the requirement is on the plan, 10.8.3.5. Exception: if the local water purveyor does not require it.
- Restraining methods for all tees, caps, plugs, bends and hydrants are specified 10.8.
- On the plans are the flushing and hydrostatic test requirements as outlined in 10.10.2, flow requirements are provided on the plan, Table 10.10.2.1.3.
- Connections to reservoirs, rivers, or lakes shall have approved double removable screens or strainers, 5.8.

PLEASE READ THE INFORMATION BELOW AND SIGN BEFORE SUBMITTING YOUR APPLICATION

Your application shall be deemed complete only if this checklist is completed and submitted along with the submittal package. Submittals not accompanied by a checklist will not be accepted. Accuracy of the submittal package, including this checklist, is the responsibility of the applicant. Failure to submit an accurate submittal package will be considered an incomplete application by the Plan Reviewer. An incomplete submittal will result in a HOLD. A Re-submittal (new submittal package) will be required and always results in a delay.

I have checked the applicable boxes and have included those requirements in my submittal.

Print Name

Signature