



Civil Plans are not approved for fire lines unless submitted as such and is included in the scope of work. Generally, a separate Fire Line permit is required.

Approved plans and permit must be on-site.

The following inspections are required for underground piping serving fire sprinkler systems and/or private hydrants:

- Thrust Block/Restraint
- Hydrostatic Testing
- Flush Inspection
- Fire Final

General Requirements

- A minimum three-foot clearance shall be provided around all hydrants. A minimum of three-foot clearance shall be provided on at least one side of a detector check assembly to allow proper operation of the device. The front of the FDC shall be free of any obstructions.
- Any future modification to the approved private underground piping system is subject to review, inspection, and approval by Puget Sound Regional Fire Authority.
- The system shall be hydrostatically tested at 200 psi (or 50 psi over maximum static pressure, whichever is greater) for a duration of at least two hours prior to the arrival of the inspector.

Pipe and Trench Requirements

- A six-inch (6") bed of clean fill sand, pea gravel, or quarry fines shall be provided below the pipe and twelve-inches (12") shall be provided above the pipe.
- Pipe shall be buried at least 36" where subject to loading (e.g. driveways, parking lots) and at least 30" elsewhere.
- All pipe shall be listed and approved for use in fire service systems.
- All ferrous pipe and fittings shall be protected by wrapping in polyethylene sheeting.
- All bolts and ferrous fittings used for underground connections shall be cleaned and thoroughly coated with asphalt or other corrosion retarding material after assembly and prior to wrapping.
- Thrust blocks, or another approved method of thrust restraint shall be provided wherever pipe changes direction.
- A minimum two-inch (2") clearance shall be provided where the pipe passes through slabs or walls. Underground system shall terminate at the riser flange and be placed a minimum of 18-inches and a maximum of 24-inches from an exterior wall and six-inches (6") above the slab.
- FDC shall be 5" Storz fitting with 30 degree down angle and Knox Locking Cap.