



Standard for Fire Line Installation

1. SCOPE

This standard covers the permitting, installation, inspection, testing, and maintenance of fire lines in the City of Marysville as administered by the fire marshal. Fire lines shall meet the requirements of the currently adopted codes and standards, unless specifically amended or noted otherwise, and as approved by the AHJ:

- A. NFPA 24 standard for the Installation of Private Fire Service Mains and Appurtenances.
- B. NFPA 25 standard for ITM of Water Based Fire Protection Systems.
- C. The International Fire Code (IFC) as amended by the city and state.
- D. The Marysville Municipal Code (MMC) [Chapter 9.04 Fire Code](#).

2. DESIGN REQUIREMENTS

- A. Systems shall be designed under the currently adopted codes.
- B. System designer qualifications shall comply with Chapter [WAC 212-80](#), Chapter 18.160 RCW, and Chapter 18.270 RCW as administered by the [Washington State Patrol](#).
- C. All plans and calculations shall be stamped with a valid Washington State certificate seal identifying the appropriate level of competency.
- D. Hydrants shall be within 3 to 10 feet of FDC(s).

3. SUBMITTAL REQUIREMENTS

- A. Working plans of the system(s), per NFPA 24.
- B. Manufacturer specification sheets for all materials used.
- C. Completed permit application through the City of Marysville.
- D. Copy of current WA State "U-License" and Certificate of Competency Holder for the individual performing the installation.

4. PERMITS

A fire permit is required for all fire line installation and modification work. The application for a fire construction permit is available on the City of Marysville's permitting [portal](#). Approved plans and permit inspection cards shall be available onsite for the permitted work. A permit is only valid for the contractor and work designated by the permit.

5. CONTRACTOR LICENSING

Per [WAC 212-80](#), the Certificate of Competency holder of the level U license shall be on site for all installation work and inspections.

6. FDC KNOX LOCKING CAPS

Knox Locking FDC Caps are required to be installed on all new FDC installations, immediately following flush. Please obtain model #3111 from Knoxbox.com.

7. FDC INSTALLATION STANDARD

Per City EDDS Standard Plan 2-050-001, FDC shall be painted rustoleum red and have approved signage affixed designating identifying location served (address or building letter / number).

8. INSPECTIONS

Fire inspections are required from Marysville Fire District for permitted work.

Level U Certificate of Competency holder shall be on-site during installation and inspections.

Scheduling Instructions: please use the permit portal with the City of Marysville to request all fire inspections via: [eTRAKiT \(marysvillewa.gov\)](http://eTRAKiT.marysvillewa.gov). If you need assistance with the portal, call permitting services at 360-363-8223. Once request is received, MFD will contact you to confirm appointment time. If you are not contacted by 5pm the business day prior to the requested date, or if you need to reschedule, please call (360)363-8525 and leave a voicemail.

Approved plans and permit inspection cards must be available on-site during inspections. The installing contractor shall pretest all systems prior to requesting an inspection. If fire code violations are noted, correction will be required for approval and a re-inspection fee will be assessed via permitting services.

- A. **Thrust Block Inspection.** Thrust blocks shall be installed per city standard 2-130. Concrete forms must be visible to inspector to verify depth. Do not cover until approved.
- B. **Hydrostatic Testing.** 200 psi for 2 hours. Timestamped image required 2 hours prior to inspection time.
- C. **Flush and Final Acceptance.** Contractor shall pre-flush lines prior to inspection time. Jumper connection size shall match pipe diameter. Burlap bags shall be attached to end of hose lines for inspector verification that piping is clear of all debris. Ball drip function will be tested to ensure proper drainage of FDC. Knox locking caps shall be installed to protect pipe from debris.

9. DOCUMENTATION

A copy of the “Contractor’s Material & Test Certificate for ‘Underground Piping’” as required by NFPA 24 shall be provided to the AHJ in a timely manner. Certificate of Occupancy will not be issued until received. Please email certificate to MFIInspectors@mfdrrfa.org.

10. EMERGENCY REPAIR WORK

A permit is required for repairs. Emergency repairs may begin without a permit provided the system configuration is not altered and a permit application is submitted the next working business day. A fire inspection is required for final approval of all repair work.

11. MAINTENANCE

The installer shall provide to the owner/occupant instructions on inspecting, testing, and maintaining the system. The fire lines shall be inspected and tested periodically to make sure they are in good working condition. Sprinkler systems shall be maintained and tested per the procedures in NFPA 25 and manufacturers’ instructions.