



Underground Fire Line Requirements

Contractor Information:

- Contractor **MUST** be registered with the State of Colorado as a Fire Suppression Contractor- Underground, per Code of Colorado Regulations (8 CCR 1507-11.3.2.2).
- Contractor shall have received adequate training on, and retain copies of, NFPA 13, NFPA 22, NFPA 24, and the State of Colorado Fire Suppression Program rules (8 CCR 1507-11.3.9.1).
- Contractor **MUST** have access while on the worksite to copies of NFPA 13, NFPA22, NFPA 24, and the State of Colorado Fire Suppression Program rules (8 CCR 1507-11.3.9.2).

Installation Information:

- Installation to comply with NFPA 24 for all pipe 4 inches and larger-
 - All fire lines, including those with a diameter less than 4 inches, are required to have a pressure test and flush, following NFPA 24 guidelines, as well as completion of the Contractor's Material and Test Certificate for Underground Piping.
 - **All fire lines are to be installed under footings and shall have a minimum separation of 18 inches from the bottom of the footing and top of pipe, with no joints located under the footing.**

Pipe Information:

- Pipe joints are to be restrained (NFPA 24, 2022 ed, 10.6).
- Pipe restraints shall be cleaned and thoroughly coated with a bituminous coating. **Coating shall have an asphaltic component, CAS number 8052-42-4. Coatings other than listed, shall be approved by the AHJ prior to installation.**
- Pipe restraints **MUST** be wrapped with plastic **after** inspection and prior to backfill.
- Tracer wire **MUST** be 12 gauge and secured to the fire line at a minimum of every 4-5 feet.
- Pipe shall be flushed until flow is verified to be clear of debris and witnessed by Greeley Fire Department Inspection personnel (NFPA 24, 2022 ed, 10.10.2.1).
- Minimum flow rate is to be in accordance with Table 10.10.2.1.3, NFPA 24, 2022 ed.
- Pipe **MUST** be hydrostatically tested at 200 psig or 50 psig above system working pressure, whichever is greater. Pressure **MUST** be maintained for 2 hours +/- 5 psi with no visible leakage. (NFPA 24, 2022 ed, 10.10.2.2).
- **Contractor to complete NFPA 24 Contractor's Material and Test Certificate for Underground Piping and submit to AHJ (NFPA 24, 2022 ed, 10.10.1)**