



Montrose Fire Protection District

441 South Uncompahgre Ave., Montrose, CO 81401 | (970) 249-9181

Serving Montrose since 1888



FIRE SUPPRESSION SYSTEM PLAN SUBMITTAL REQUIREMENTS

Working plans and associated documents, including "Remodel" documents, shall be submitted to the Authority Having Jurisdiction (AHJ), also known as the Montrose Fire Protection District, for review and approval prior to system installation or any other work being completed (2003/2015 IFC Sec. 901.2 and 2016 NFPA 13, 23.1.1) Remodels will not require a full plan review unless required by the AHJ.

Fees will be assessed upon completion of all plan reviews and will be according to the locally adopted fee schedule.

Design Information: All plan drawings and hydraulic calculations shall be prepared, signed and dated with a **wet signature** by a designer who is registered with the State of Colorado as a Professional Engineer (P.E.) or a minimum NICET level III. The designer of the system shall be clearly identified on the documents as required by the Colorado Division of Fire Prevention and Control. Any individual or company, who physically works on or installs any part of a fire suppression system, including the underground supply lines and back flow preventers, must be registered and current with the Colorado Division of Fire Prevention and Control.

Working Plans on New Systems: Each submittal shall contain 1 Montrose Fire Protection District permit application as well as a minimum of two (2) complete sets of plans, equipment spec sheets, and hydraulic calculations. All working plans shall contain the relevant information as listed in 2016 NFPA 13 sec. 23.1.3. Items of importance that shall be identified in the submittal:

Current Water Supply Information: Working plans shall show static pressure, residual pressure, flow, date of test, name of organization that conducted the test or supplied the test information. The fire flow test shall not be conducted more than 12 months prior to working plan submittal (2016 NFPA 13 23.2.1.1 and Colorado Division of Fire prevention and Control).

Water Supply Graph: The first curve shall show actual water flow information. A second curve shall visually represent a 10% safety factor reduction. This curve shall be separate and distinguishable from the actual water flow curve and have a slope equal to or greater than the actual water flow curve. The hydraulic design shall be below the adjusted water supply curve (10% requirement is consistent with the Colorado Division of Prevention and Control Rules).

Omitted Coverage Areas: Note location and size of concealed spaces, closets, attics, bathrooms, small enclosures, balconies, canopies, etc. that do not contain proposed fire sprinkler coverage. You must list the applicable code section on plans. Areas covered by alternative fire protection equipment (i.e. Clean Agent System) should also be noted.

Underground: Each set of plans shall accurately show locations and dimensions of water mains, test hydrant, flow hydrant, fire lines, and any other pertinent information. Hydraulic calculations shall be completed all the way back to the fire hydrant or other water source where the fire flow test was conducted.

Equipment Spec Sheets: Equipment utilized in the design shall be clearly identifiable in the submitted specification sheets by either highlight or marking.

Owners Certificate: A signed copy of the owner's certificate shall be submitted with ***ALL NEW*** full plan submittals as well as submittals involving a change of use (2016 NFPA 13 23.1.4).

Working Plan Re-Submittals: Submittals requiring additional information will be placed on hold until required information has been submitted. Where a re-submittal is required, MINOR changes/revisions shall be submitted with changes clouded. Changes involving a complete system re-design need not be clouded.

Non-Required Systems: All Proposed non-required fire sprinkler systems shall meet the same requirements for required systems and meet locally adopted codes i.e. International Fire Code, NFPA 13 etc. (2015 IFC Sec. 901.4.2)

Freezing Conditions: It is the designer's responsibility to provide the building's owner with a system design that will continue to function reliably even under adverse temperature conditions. The sprinkler contractor must be conscious of field conditions that may affect the performance of the system and make corrections as required. It is the owner's responsibility to ensure adequate heat is provided to the building.

Remodel/Tenant Finishes: Each submittal shall contain 1 Montrose Fire Protection District permit application as well as a minimum of two (2) complete sets of plans and equipment spec sheets. Hydraulic calculations will only be required when a significant change occurs to the system that would warrant a complete evaluation of the system.



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