



Natrona County Fire Protection District

Office of the Fire Marshal

555 N Robertson Road · Casper, WY 82604
Phone (307) 234-4679 · Fax (307) 265-0353

Fire Alarm Submittal Requirements

(IFC 2024 and 2019 NFPA 72 Standards)

As of January 1st 2026:

Submittal drawings for Fire Alarm and Emergency Communication systems shall provide basic information and provide the basis for the record drawings (as-built) drawings, and shall include the following information (2019 NFPA 72 Article 7.4):

1. Name of the protected premises, owner, and occupant information (where applicable).
2. Name of the installation contractor.
3. Location of the protected premises.
4. Device legend and symbols in accordance with NFPA 170.
5. Date of issue and any revision dates.
6. **Floor Plan Drawings.** Floor Plan Drawings shall be drawn to an indicated scale and shall include the following information that is applicable to the system:
 - a) Floor or level identification.
 - b) Point of compass (indication of North).
 - c) Graphic scale.
 - d) All walls and doors.
 - e) All partitions extending to within 15 percent of the ceiling height (where applicable and known).
 - f) Room and area description.
 - g) System devices/component locations and, visual and auditory output levels of notification appliances.
 - h) Locations of fire alarm primary power disconnecting means.
 - i) Locations of monitor/control interfaces to other systems.
 - j) System riser locations.
 - k) Type and number of system components/devices on each circuit, on each floor level.
 - l) Type and quantity of conductors and conduit (if used) for each circuit.
 - m) Identification of any ceiling over 10 feet in height when automatic fire detection is being proposed.
 - n) Details of ceiling geometries, including beams and solid joists, where automatic fire detection is being proposed.
 - o) Where known, acoustic properties of spaces.
 - p) Location of document required cabinet.
7. **System Riser Diagrams.** System riser diagrams shall be coordinated with the floor plans and shall include the following:
 - a) General arrangement of the system in building cross-section.
 - b) Number of risers.
 - c) Type and number of circuits in each riser.
 - d) Type and number of system components/devices on each circuit, on each floor or level.
 - e) Number of conductors for each circuit.



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8. **Control Unit Diagrams:** Control system diagrams shall be provided for all control equipment (i.e. equipment listed as either a control unit or control unit accessory), power supplies, battery chargers, and annunciators and shall include the following:
 - a) Identification of control equipment depicted.
 - b) Location(s) of control equipment.
 - c) All field wiring terminals and terminal identifications.
 - d) All circuits connected to field wiring terminals and circuit identifications.
 - e) All indicators and manual controls.
 - f) Field connections to supervisory station signaling equipment, releasing equipment, or emergency safety control interfaces, where provided.
9. Typical wiring diagrams shall be provided for all initiating devices, notification appliances, remote indicators, annunciators, remote test stations and end-of-line and power supervisory devices.
10. A narrative or input/output matrix of operation shall be provided to describe the sequence of operation.
11. **System Calculations:** System calculations shall include:
 - a) Battery calculations.
 - b) Notification appliance circuit voltage drop calculations.
 - c) Other required calculations, such as line resistance calculations, where required.
12. Manufacturer information for system components such as, initiating devices, notification appliances, notification appliance circuit extenders, and fire alarm control panels
13. **Permit Fees:** Are based off the *number of devices* proposed in the fire alarm submittal; see NCFPD Fee Schedule prior to submittal. Final acceptance inspection is a separate fee and must be scheduled at least 48 hours in advance.

All Fire Alarm system designs shall be prepared by or under the direct supervision of an Engineer registered to work in the State of Wyoming, or by an individual Certified by NICET at Level III or greater.