

Fire Alarm System Submittal Requirements

The following requirements have been established for the submittal of plans specifications for all fire alarm systems being installed. Submittals not conforming to these minimum requirements will be returned as incomplete.

These requirements apply to all new required or non-required fire alarm system installations in either new buildings or existing buildings (except for single family residences).

Fire alarm systems shall be designed, installed and maintained in accordance with NFPA 72 and Local Codes.

Any questions contact Fire Marshal (651) 249-2804

Submittal requirements with fire system permit application and submittal docs:

1. Provide PDF copy of plans and original equipment data sheets.
2. Drawings shall be legible, to scale and contain only fire alarm components and signed by a PE or NICET-3 designer.
3. Drawings shall include details showing the installation of interior, manual fire alarms (pull stations), strobe/horns, strobes only (including installation height), FACP, door hold-open devices, heat and smoke detectors (indicate type), fire sprinkler water flow and tamper control valves.
4. A floor plan shall be provided indicating the location of devices and appliances and zone indications.
5. When two or more zones are required, they shall be designed to assist in providing emergency personnel with fire alarm location. When two or more zones are required a zone schedule shall be provided indicating zone location and device or appliance that have been activated.
6. Calculations shall be provided for power supply (battery) calculations to include standby and alarm conditions, circuit amperage and voltage drop. Standby power requirements shall conform to the type of system being installed. (Note: where security components are powered from the FACP, they shall be included in the battery calculations.)
7. At the completion of the project a set of as-built drawings shall be left with the owner/occupant and a copy sent to the fire marshal. Information left with the owner/occupant shall include maintenance, testing and operating instructions. This information shall be left in a location for easy accessibility to maintenance contractors, building engineers and the fire marshal.
8. After acceptance testing has been completed and witnessed by the fire marshal the installing company shall provide the owner/occupant and the fire marshal with a completed NFPA Certificate of Compliance Form.
9. All equipment shall be UL listed for Central Station Monitoring or Remote Station Monitoring.
10. Inspection cards shall be on job site at all times.



CITY OF MAPLEWOOD
Building Department
1830 County Road B East Maplewood, MN 55109
Phone (651)249-2300
www.MaplewoodMN.gov

Permit # _____

Fire System Permit Application

Date _____

PIN _____

Residential OR **Commercial** – Business Name _____

Fire Alarm Fire Suppression Fire Sprinkler

Work Description _____ VALUATION \$ _____

Site Address _____

Lot _____ Block _____

Addition or Tract _____

Property Owner _____ Phone _____

Address _____

Contractor/Applicant _____ Phone _____

Address _____ City _____ State _____ Zip _____

State License No. _____ E-Mail _____

Comments:

*****Separate permits required for electrical, mechanical, plumbing and building*****

The undersigned makes application for a permit to do building work as herein specified and agrees to do the work in accordance with all applicable code requirements.

Applicant Signature

Date

City approved by

Date

Applicant (Printed)

**Fire Alarm System Submittal Documentation Sheet
(To be submitted with fire system permit application)**

Project Name/Location _____
 Panel Manufacturer _____ Model _____
 No. Of Circuits _____ Circuit Style _____

Alarm Initiating Devices

| <u>Quantity</u> | <u>Circuit Style</u> | <u>Initiating Device</u> |
|-----------------|----------------------|-------------------------------|
| _____ | _____ | Manual Station = Pull Station |
| _____ | _____ | Ion Detectors |
| _____ | _____ | Photo Detectors |
| _____ | _____ | Heat Detectors |
| _____ | _____ | Water Flows |
| _____ | _____ | Other (Specify) _____ |
| _____ | _____ | Other (Specify) _____ |

Number of Alarm Initiating Circuits _____

Notification Appliances

| <u>Quantity</u> | <u>Circuit Style</u> | <u>Notification Appliances</u> |
|-----------------|----------------------|--------------------------------|
| _____ | _____ | Bells |
| _____ | _____ | Horns |
| _____ | _____ | Horn/Strobes |
| _____ | _____ | Strobes |
| _____ | _____ | Other (Specify) _____ |
| _____ | _____ | Other (Specify) _____ |

Number of Alarm Notification Circuits _____
 Type of Notification Pattern _____

Supervisory Initiating Devices

| <u>Quantity</u> | <u>Circuit Style</u> | <u>Supervisory Device</u> |
|-----------------|----------------------|---------------------------|
| _____ | _____ | Sprinkler System Tamper |
| _____ | _____ | Duct Detectors |
| _____ | _____ | Other (Specify) _____ |
| _____ | _____ | Other (Specify) _____ |

Number of Supervisory Circuits _____

Power Sources

Primary Nominal Voltage _____ VAC
 Over current protection type _____ Amps _____
 Sub feeder location _____

Secondary Storage Battery _____
 Number Batteries _____ Amp-Hr Rating _____ Type _____
 Generator _____
 Location _____ Fuel Storage Location _____

Fire Alarm System Submittal Cover Sheet

1. Protected Property

Name _____
 Address _____
 Contact _____
 Telephone _____

2. Installing/Service Company

Name _____
 Address _____
 Contact _____
 Telephone _____
 MN License _____ Local License _____

3. Monitoring Company

Name _____
 Address _____
 Contact _____
 Telephone _____
 MN License _____ Local License _____

The following components for fire alarm systems are REQUIRED

| Required | Component | UL Central Station | Remote Station |
|-----------------|--|-----------------------------|-----------------------|
| * | Secondary power | 24 hours | 60 hours |
| * | At least (1) pull station | Required (NFPA 72. 3-8.1.2) | |
| * | Smoke detection protecting fire alarm panel equipment | Required (NFPA 72. 1-5.6) | |
| * | Audible notification throughout occupancy | Required (UFC 1007.3.3.3) | |
| * | Testing and Inspection contract | Required (NFPA 72. 7-1.2.1) | |
| * | (2) telephone lines | Required (NFPA 72) | |
| * | 5 minutes of alarms with secondary power for either monitoring | | |

**Contractors Final Inspection Check List
For
Fire Marshal's Final Inspection**

The items listed below shall be completed before a final inspection can be completed

1. All inspections cards shall be on-site
2. All rough-in inspections and final inspections shall be completed for the following:
 - a. All fire suppression systems (wet or dry systems)
 - b. All fire alarm systems
 - c. Any special fire suppression and alarm systems
 - d. Kitchen hood systems
3. The proper type of fire extinguishers are properly mounted, tagged and locations marked
4. Fire Department Key Box is mounted at 7ft from the ground to the bottom of the key box (**key box purchase information is obtained from the Fire Marshal**)
5. A master key is on-site and will be locked in key box by the Fire Marshal at the final inspection

Any questions contact Fire Marshal (651)-249-2804