



Chanhassen Fire Department

FIRE PREVENTION BUREAU

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FIRE ALARM SYSTEMS #01-1990

1. Fire alarm system shall meet the requirements of current MSFC and the current standard of NFPA 72.
2. Two (2) sets of plans shall be submitted to the Fire Department for approval. Plans shall include:
 - a. Connection diagrams.
 - b. Specification data sheets.
 - c. Schedules, for each device, including: location, function, and zoning.
 - d. Complete diagrams indicating: devices, components, interconnecting wiring, indicate labeling and descriptions on equipment.
 - e. Floor plans indicating device and component locations, conduit, raceway and cable routes.
 - f. Power connections, including source and branch circuit data.
 - g. Plan layout and details of: fire alarm control panel, fire alarm subpanels/transponders, and annunciator.
3. Wiring may be either a Class A or Class B Wiring System. (Exception: When a fire alarm system is used to actuate an extinguishing system that protects a special hazard with high value, Class A circuitry will be required.
4. All components of the system must be U.L. listed for their application, compatible and installed per current applicable NFPA 72, (10) National Electric Code and manufacturer's requirements.
5. Alarm verification is required for all systems using smoke detectors.
6. When Central Station notification is required or otherwise provided, it must be through a U.L. listed communicator, or NFPA Listed Control Panel. All Central Stations must be U.L. listed.
7. Alarm horn must meet audibility requirement of NFPA 72, which would normally require an alarm horn in each unit.
8. The system shall be zoned per Chanhassen Fire Department requirements.
9. A U.L. 72 document is required on the system. The U.L. 72 document shall be current and required for the life of the alarm system and the life of the building. A copy of the U.L. 72 application OR document must be provided prior to the final of the building.

10. A fully-function annunciator must be provided per Fire Marshal approved location if the control panel is remotely located.
11. All systems using standard horns or speakers must be set for temporal time.
12. The Chanhassen Fire Marshal must be contacted for final inspection of the completed job. The inspection will include the following. Approved and acceptance must comply with NFPA 72.
 - a. Test for proper operation of each device.
 - b. Random testing for system trouble.
 - c. Random testing for ground fault trouble.
 - d. Correct operation on battery or standby power.
13. Remote alarm indicating devices are required at locations when duct detectors are not visible from floor.
14. All pull stations will need approved covers to prevent accidental activation.
15. A permit application signed by the low voltage contractor or electrical engineer.
16. Water flow alarm must be monitored as a distinct signal.
17. Low and high air pressure on sprinkler systems containing air pressure shall be monitored.
18. Devices designed to initiate a specific function or action, i.e. duct smoke detection, elevator recall, and door hold open detectors shall be monitored only for supervision.
19. Power supply for alarm systems must be on a dedicated circuit. Breakers for all alarm system components, including exterior sprinkler alarms must have approved locking devices to prevent the accidental disconnecting of power.
20. Monitoring systems must comply with NFPA 72 including panel requirement for audible trouble signals and must have two means of signal transmission when using a DACT.
21. A zone map is required on all multiple sprinkler riser or zoned systems. The map must be permanently mounted adjacent to sprinkler riser, alarm panel and annunciator panel.
22. Completion of NFPA 72, installation/testing forms.

Revisions 5/15/03
 3/22/05
 5/2/08
 2/15/10
 2/17/15
 4/17/17

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