

Hillside Fire - Fire Alarm Requirements

All new construction shall have a manual fire alarm system installed in accordance with NFPA 72 and NFPA 70 requirements.

Any existing building undergoing remodeling to such an extent that walls and/or ceilings are opened shall have a fire alarm system installed.

Sprinklered buildings shall have a manual fire alarm system installed.

Unsprinklered buildings shall have a manual fire alarm with automatic detection installed. Detectors shall be present in all locations.

For new construction, the fire department will not approve any permit until the applicant provides fire alarm plans and fees for review.

For the installation or modification of a fire alarm system in existing buildings, the fire department will not approve the permit until the fire alarm plans and fees are received.

The Fire Alarm panel shall have the following equipment installed prior to installation of the wireless transceiver and connection:

- FACP shall be equipped with reverse polarity contacts
- The responsible electrical contractor shall provide a 1900 box within 3 feet of the FACP. The 1900 box shall have sufficient wire available from the primary A/C power source as the FACP.
- Connections will only be made to an FACP that is tested, inspected and approved by the Hillside Police Department. FACP shall be clear of all alarms prior to connection.

The basic submittal package shall contain the following:

1. 2 sets of drawings (one being PDF electronic format)
2. 2 sets of equipment specifications (cut sheets) (one being PDF electronic format)
3. 2 sets of battery calculations (one being PDF electronic format)
4. 2 sets of voltage drop calculations for all notification circuits (one being PDF electronic format)
5. A copy of the contractor's State of Illinois Department of Professional Regulation business license.

The drawings shall show the following:

1. The name and address of the designer and contractor.
2. A complete building address
3. A scaled floor plan of the building, 1/8 inch preferred, indicating the use of all rooms.
4. The location of all alarm initiating and notification appliances and all controls.
5. A reflected ceiling plan.
6. Wire size and type to be used.
7. A symbol list showing all device types and number of devices.
8. Conformance to NFPA 170 is preferred.
9. A point-to-point wiring diagram showing the length of each run.
10. A riser diagram, if applicable.
11. Smoke detector spacing details.
12. External connections of modules to the control panel, if applicable.
13. Sequence of operation.