



Development Services Department

Administration • Codes • Planning
Community Development • GIS • MTPO

Codes Division

FIRE ALARM SHOP DRAWING SUBMISSION REQUIREMENTS

- Plan Review Application – Use form “Fire Alarm, Sprinkler, Hood Suppression System”
 - Review application to be accompanied by \$25 review fee
- (2) Large scale, hard copy sheets containing the information outlined below (electronic submission is not acceptable at this time).
 - Send plans to ATTN: Plans Examiner, Building and Codes Division (see address below)
- All items, 1-13 below, per City adopted '12 International Fire Code 907.1.2, must be specifically referenced on the shop drawings. *(see reverse/below for more, yet not exclusive, detail)
 1. Floor plan indicating use of all rooms and location of fire rated walls/assemblies
 2. Locations of alarm-initiating
 3. Location of alarm notification appliances to include candela ratings for visible alarm notification appliances.
 4. Location of fire alarm control units, transponders and notification power supplies
 5. Annunciation
 6. Power connection
 7. Battery calculations
 8. Conductor type and sizes
 9. Voltage drop calculations
 10. Manufacturers model numbers and listing information for equipment devices and materials
 11. Details of ceiling height & construction
 12. Interface of fire safety control functions
 13. Monitoring detail as applicable
- The above shop drawings must be created by one of the following professionals to be clearly identified on the design documents:
 - A TN State licensed designer – Architect / Engineer (not providing sales, service, installation or maintenance of alarm systems) – per TCA62-32-305(8)
 - A TN State licensed Electrical, Mechanical, & HVAC contractor that is officially excluded by the TN Alarm Systems Contractors Board to do so (per TCA62-32-305[7])
 - System Installers certified as follows: **(per NFPA 72_4.3.3 – but not limited to)
 1. Factory trained & certified, or
 2. NICET II certified, or
 3. Licensed by a state or local authority**documentation of qualification will be required

Once all of the above documents are received and reviewed by the Fire Marshal, applicant will be contacted by the Plans Examiner via contact information provided on application. Upon approval, and receipt of electronic files, Certified Contractor may purchase permit for work to be completed.

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*1. Information required on shop drawings includes:

- Name of owner and occupant
- Location, including street address
- Device legend
- Date
- Reviewing agency (AHJ)
- Applicable codes and standards identifying edition and year
- Other criteria used in the design
- Type of construction and occupancy classifications
- Type of alarm system to be used
- Identification of any existing alarm system and its components
- Area of coverage/protection
- List of fire safety functions
- List of zones for detection and evacuation signaling
- Identification of annunciator zones
- Fire department response points
- Sequence of operation identifying devices and responses (inputs and outputs)
- Secondary power calculations
- Voltage drop calculations

2. Information required on floor plans includes:

- Floor identification - configuration to scale
- Point of compass
- Graphic indication of scale
- Room identification (name and/or number)
- Arrangement showing walls and partitions within 18 inches (457 mm) of ceiling
- Doorways and other openings
- Riser locations
- Device locations
- Primary power connection location
- Monitor interface locations

3. Information required on riser diagrams includes:

- Cross section of building showing general configuration of system
- Number and location of risers
- Circuit number and type
- Alarm component number and type on each circuit
- Alarm component number and type on each floor

4. Information required on control panel diagrams includes:

- Identification of specific control equipment
- Control panel location
- Battery charger location
- Annunciator location
- Primary power supply location
- Secondary power supplies and locations
- Indicators and manual controls
- Full text of labels
- Field wiring terminals and terminal identification(s)
- Identification of circuits connected to field wiring terminals
- Circuit identification
- Releasing equipment and connections
- Field connections to supervising station signaling equipment
- Fire safety control interfaces
- Identification of LEOs
- Identification of remote stations, end-of-line and power supervisory devices

5. Additional information necessary for complete review includes:

- Information to be included in the owner's manual
- Description of maintenance requirements
- Identification of designer with contact information
- Identification of installer with contact information
- Certifications for designer(s)
- Certifications for installer(s)

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