



**Broward Sheriff's Office
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
Fire Marshal's Bureau**

WESTON DISTRICT
17250 Royal Palm Boulevard
Weston, Florida 33326
954-385-0500 Fax: 954-384-7723

FIRE ALARM SHOP DRAWING SUBMITTAL REQUIREMENTS

A **Fire Alarm System Shop Drawing** is required for review by the Fire Prevention Bureau for any modification(s) or change(s) to existing fire alarm systems and any new installations. The Fire Alarm System Shop Drawing(s) must include all of the information listed below. ***If any portion does not apply, a note must be provided on the plan stating that it is not applicable.*** If any portion of the requested information is not provided or clarified, the plan will be returned for that provision or clarification to be made and a re-examination fee may apply. Should you have any questions, please contact the Fire Prevention Bureau with the information provided in the letterhead.

THE FIRE ALARM SYSTEM SHOP DRAWINGS MUST INCLUDE ALL OF THE FOLLOWING:

1. A detailed Scope of Work.
2. A Scaled plan with the scale indicated.
3. North Directional Indicator.
4. A total square footage of the work area or tenant space.
5. A complete legend in accordance with the Fire Safety Symbols of NFPA-170, Current Adopted Edition (to include all symbols related to plan).
6. The plans must be signed and sealed by the architect and/or engineer. If the job value is less than \$5,000.00 and the plan is not signed and sealed by the architect or engineer, provide a copy of the signed contract with the plan submittal.
7. A note on the plans that the Fire Alarm System shall be installed in accordance with,
 - NFPA-72, Current Adopted Edition
 - NFPA-70, Current Adopted Edition

8. Product Spec Sheets for all devices and appliances (to also include watergongs/alarms, tamper switches and flow switches for sprinkler systems) associated with the fire alarm system.
9. Identify the Occupancy Classification for which the alarm systems is being installed (If the occupancy is mixed provide the percentage and square footage of each occupancy by way of a note).
10. A Sequence of Operation for the Fire Alarm System.
11. A sequence of operation for the elevator recall for Fire Fighters' service. (**where applicable**).
12. Battery Calculations to include voltage drops.
13. Identify the locations of any water gongs/alarms, tamper switches and flow switches if included in the fire alarm system.
14. **Highlight** all stand-by & alarm currents, decibel levels and light type/source/candela applicable to each device and appliance on each of the product spec sheets. If this information is not provided on the product spec sheets, provide other documentation from the manufacturer which indicates current draws, decibel levels and light types as requested.
15. Indicate the maximum spacing requirement between smoke detectors as stipulated by the manufacturer. **Highlight** this information on product spec sheets. If this information is not provided on the product spec sheets, provide other documentation from the manufacturer which indicates the maximum spacing.
16. Indicate the maximum spacing requirement between visible notification appliances (wall mounted and ceiling mounted) as stipulated by the manufacturer. **Highlight** this information on product spec sheets. If this information is not provided on the product spec sheets, provide other documentation from the manufacturer which indicates the maximum spacing.
17. Indicate the maximum spacing requirement between audible notification appliances as stipulated by the manufacturer. **Hi-Lite** this information on product spec sheets. If this information is not provided on the product spec sheets, provide other documentation from the manufacturer which indicates the maximum spacing.
18. A complete wiring diagram/schematic.
19. Indicate the Class and Style of the initiating device circuits, notification appliance circuits, and signaling line circuits. See NFPA-72, 6.4.2.1& 6.4.2.2.

20. A note or demonstrate on the plan the communication method intended for use in transmitting an alarm signal to the supervising station (DACT/DACS, DARR/DART, Two-Way Radio Frequency, One-Way Private Radio Alarm, etc.) NFPA-72, 8.5.3.
21. If this system is utilizing a DACT, provide information on the intended transmission channels to be utilized for this fire alarm system in accordance with NFPA-72, 8.5.3.2.1.4.(ie. Two telephone lines one of which is a dedicated line)
22. Identify Smoke or Heat Detector at the FACP.

*****NOTE***NOTE***NOTE***NOTE***NOTE*****

23. ***A letter-format response is required for all corrections made to any portion(s) of the plan indicating the page or sheet numbers where the corrections can be found. Failure to provide this letter format response will result in the plan being rejected without review. Additional plan review fees shall be applied.***
24. ***If any item(s) is overlooked in the plan review process and discovered during the field inspection it MUST be corrected to meet the actual code requirements.***