



CITY OF
**Sterling
Heights**

InnovatingLiving

Fire Department
41625 Ryan Road
Sterling Heights, MI | 48314

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City Council

Mayor	Michael C. Taylor
Mayor Pro Tem	Liz Sierawski
Councilwoman	Deanna Koski
Councilman	Michael V. Radtke Jr.
Councilwoman	Maria G. Schmidt
Councilman	Henry Yanez
Councilwoman	Barbara A. Ziarko
City Manager	Mark D. Vanderpool
Fire Chief	Kevin Edmond

Fire Department Plan Submittal Guidelines

1. Plans shall be submitted with a complete and accurate code analysis. Please see the example on page 2.
2. 2015 IFC with references, appendices and local amendments shall be listed as the governing/referenced code.
3. Plans shall have the scope of work listed.
4. Exterior elevations of structures, width of fire access roads, turning radii and FDC/hydrant locations shall be on site plans.
5. Fire apparatus access roads shall comply with chapter 5 and appendix D of the 2015 IFC. Please note special considerations for minimum road widths around fire hydrants and buildings over 30' in height.
5. Commodity classification and quantity of storage materials shall be provided to the fire department. Design features and layout of storage systems and shelving shall be provided. High-piled combustible storage shall comply with chapter 32 of the 2015 IFC and will require a separate use permit through the building department.
6. Where work will eventually require the installation of, or modification to, fire alarms or suppression systems, conditional approval of those permits is based on the receipt of fire alarm/suppression system plans. Refer to 2015 MBC 107.3.4.1 *Deferred Submittals*.
7. Where required, fire alarm annunciators and manual pull stations are to be installed by the front entrance of the building.
8. Suppression systems in strip malls shall have a shut-off valve installed to isolate that system from the rest of the building and an exterior A/V device in the rear of that address.
9. 3rd party reviews are required for the following: fire alarm systems, fire suppression systems with or without an alarm over 20 heads, all high hazard group H occupancies, high-piled or high rack storage permits, occupancies that use or store class 3, 4 or high-hazard commodities and occupancies that use or store group A, B or C plastics. Please refer to fire prevention bulletin P20-18 for more information.



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Example Code Analysis

Occupancy: I-1, Condition 2
Construction: Type VA, Sprinklered
Fire Protection System: NFPA 13 Automatic Sprinkler System
Fire Alarm System: None/Not Required
Deferred Submittals: NFPA 13 Automatic Sprinkler System
Governing Code: 2015 IFC with references, appendices and local amendments
Allowable Building Area: 42,000ft², Actual: 11,910ft²
Fire Flow Calculation Area: 14,280ft²
Allowable Height: 50' Actual: 20'
Allowable Stories: 3, Actual: 1
Calculated Occupant Load: 11,616ft² / 120 gross (Institutional Sleeping Area) = 97
Egress Width Required: 97 occupants x .2" per occupant = 19.4"
Egress Width Provided: 160"
Exits Required: 2 Exits Provided: 6
Travel Distance Required: 250', Travel Distance Provided: 67'
Common Path of Travel Required: 75', Common Path of Travel Provided: 34'