

FIRE SPRINKLER PLAN REVIEW SUBMITTAL REQUIREMENTS

In order to perform a through Fire Sprinkler System Plan Review, a minimum of four copies of the following specifications, drawings, and details shall be submitted along with a completed permit application:

- Complete signed and wet-sealed plans, hydraulic calculations, and specifications for the fire sprinkler system and related equipment.
- Details and plans shall be drawn to scale with sufficient clarity, details and dimensions to show the nature and extent of the work proposed.
- Each building in a multi-building development shall be a completely separate submittal.
- Description and locations of all rooms and uses within the building.
- Occupancy and commodity classifications and storage arrangements.
- Design details in accordance with the appropriate reference standard (i.e. 2007 NFPA 13, 13D, 13R) as referenced by the 2009 International Building Code as amended by the City of Greenfield.
- Design calculations, sprinkler summary sheet, and water supply graphs indicating the discharge requirements of each system, and evaluation of the arrangement and source of the water supply.
- Available water supply shall exceed the system demand by 10 psi minimum.
- Provide documentation indicating a successful flushing of the underground lead-in.
- Site plan drawn to scale showing underground main and feeder details, location of tap into main, and location of flow test hydrants. Static and flow hydrants shall be properly labeled.
- Complete results of a current flow test (dated within 12 months) indicating the location and date of the test and the names of the personnel involved in conducting the test. Test shall be conducted by either the fire district or Public Works Department. Results shall be submitted on a form approved by the Greenfield Fire Department.
- Working shop drawings indicating all pipe sizes and the spacing between branch lines and sprinklers on the branch line. All hydraulic calculation reference points or nodes shall be shown and labeled.
- Material and equipment specifications and catalog cut sheets, with the appropriate item(s) highlighted. All materials used should be verified that they are installed in accordance with their listing.
- Method of backflow prevention and equipment data sheet.
- It is recommended that the applicant contact the appropriate fire district to determine special requirements of the district.

Send complete fire sprinkler submittal directly to

**Fire Safety Consultants, Inc.
2420 Alft Lane Suite B100
Elgin, IL 60124**

Phone: 847-697-1300 • Fax: 847-697-1310 • email info@firesafetyfsci.com

FIRE ALARM PLAN REVIEW SUBMITTAL REQUIREMENTS

In order to perform a thorough Fire Alarm System Plan Review, a minimum of four copies of the following specifications, drawings, and details shall be submitted along with a completed permit application:

- Complete plans and specifications of all fire alarm work.
- Each building in a multi-building development shall be a completely separate submittal.
- Details and plans drawn to scale with sufficient clarity, details and dimensions to show the nature and extent of the work proposed.
- Design details in accordance with the 2007 NFPA 72 as referenced by the 2009 International Building Code and the Accessibility Code as amended by the City of Greenfield.
- Type of system and method of supervision and monitoring agency.
- Description and locations of all rooms and uses within the building.
- Occupancy commodity descriptions and storage arrangements for special applications.
- Initiating device floor plan indicating location, number of devices, conduit/wiring size and type, and mounting details.
- Notification device floor plan indicating location, number of devices, conduit/wiring size and type, and mounting details.
- Fire alarm control panel details and location.
- Remote enunciator details and location.
- Primary and secondary power details.
- Proposed zone chart or address list of devices.
- List of auxiliary or local control functions.
- Symbol schedule and diagrams.
- Voltage drop calculations.
- Standby battery details and calculations. 24 hours of standby time required minimum.
- Material and equipment specifications and catalog cut sheets, with the appropriate item(s) highlighted. All materials used should be verified that they are installed in accordance with their listing.
- Duct smoke detector location and details per NFPA 90A (return side)
- A complete sequence of operation for the system.
- Deviations from NFPA 72 along with an explanation.
- It is recommended that the applicant contact the appropriate fire district to determine special requirements of the district.

Send complete fire alarm submittal directly to

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UNDERGROUND WATER MAIN SUBMITTAL REQUIREMENTS

In order to perform a through Underground Plan Review, a minimum of four copies of the following specifications, drawings, and details shall be submitted along with a completed permit application:

- Plans must show the job name and complete address.
- Plans shall have the contractors name, address, and phone number.
- Plans must be to scale and clearly show work to be done including a **detailed scope of work**.
- Provide a scaled site plan clearly showing the building fire department connection location and fire hydrant locations.
- Plans must show all new and existing underground piping, sizes, control valves, hydrants and flow test information.
- The specific size, type and quantity of all valves shall be provided on every page.
- Fire hydrant flow test information shall be dated and **less than 1 year old**.
- Hydraulic calculations shall be submitted and include a graphed demand curve sheet. IFC Appendix "B".
- Indicating control valves shall be located at each Municipal water supply connection, each side of any check valves and for the building fire service main to the building.
- Provide catalog cut sheets for all hydrants, valves and other underground water main components.
- All underground piping, joints and fittings shall comply with AWWA standards.
- All hydrants shall be on a 6" water main minimum.
- Provide hydrant and valve details on drawings.
- Plans shall indicate the building square footage and construction classification.

Send complete underground water main submittal directly to

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CLEAN AGENT SYSTEM SUBMITTAL REQUIREMENTS

In order to perform a through Clean Agent Plan Review, a minimum of four copies of the following specifications, drawings, and details shall be submitted along with a completed permit application:

- Plans must be to scale and clearly show all work to be done.
- Plans must show the job name and complete address.
- A key plan shall be provided showing the area of work in the building.
- Complete catalog cut sheets shall be provided for all equipment to be used.
- The scope of work shall include a description of hazard being protected and type/manufacturer of agent being used.
- Calculations for required agent quantity and discharge time shall be provided per NFPA 2001
- All alarm portions of the system shall comply with the submittal requirements of a fire alarm system.

Send complete clean agent submittal directly to

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KITCHEN HOOD WET CHEMICAL SYSTEM SUBMITTAL REQUIREMENTS

In order to perform a through Clean Agent Plan Review, a minimum of four copies of the following specifications, drawings, and details shall be submitted along with a completed permit application:

- Plans must include exact hood, duct, piping, and appliance dimensions. A scaled front elevation and isometric view shall be included per NFPA 17A.
- Plans must show job name and complete address.
- Catalog cut sheets must be provided for all nozzles and equipment to be used.
- The tank size and flow point count must be noted on the plans.
- All plans must have the contractors name, address, and phone number.
- A plan view of the kitchen must show the hood, tank, and pull station locations.
- The plans must clearly show the type of nozzles to be used and show the mounting height, and aiming point for each.

Send complete kitchen wet chemical submittal directly to

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