

PLAN REVIEW CHECKLIST

Date Documents Submitted: _____

Log No.: _____

File No.: _____

Property Information

Building Name: _____

Building Address: _____

Owner's Name: _____

Owner's Address: _____

Owner's Phone: _____ Fax: _____ E-mail: _____

System Designer/Contractor

Company Name: _____

Company Address: _____

Contact Person (Designer): _____

Designer Qualifications: _____

Phone: _____ Fax: _____ E-mail: _____

General

Yes No The standard used in the system design and proposed installation is NFPA 13R (If no, utilize NFPA 13 or 13D checklist)

Yes No Project is a residential occupancy that is four stories or less in height (If no, NFPA 13R cannot be utilized)

New system or a change to an existing system:

New system Change to existing system

Square footage of the project: _____

Construction type:

Fire resistive Non-combustible Ordinary Heavy timber Wood frame Mixed

Building Use and Occupancy Classification

Applicable building code: _____ Edition: _____

NFPA 13R Edition: _____

Other _____

Sprinkler system required by building or fire code

Fire alarm system required by local ordinances

Fire alarm system required for equivalency, alternative level of protection, etc.

Fire alarm system not required, property owner voluntary safety improvements

Other _____



Sprinkler Type and Coverage

Type of sprinkler system: Wet Dry Anti-freeze

Yes No Sprinklers omitted in some areas

Yes No If yes, omissions allowed per NFPA 13R

Omitted area(s) _____

Area of coverage: Total Partial Other _____

Yes No All wet piping in areas that are maintained above 40°F

Fire Pump

Yes No Fire pump provided

Yes No Gallon per minute and pressure rating of the pump specified

Type of fire pump: Electric Diesel Gasoline LPG/LNG Steam

Yes No Pump layout in accordance with NFPA 20

Design Specifications

Yes No System hydraulically calculated

Yes No Design area of water application specified

Yes No All sprinklers, up to four, within the most hydraulically demanding compartment included in the design area

Yes No Minimum rate of water application (density) specified

Yes No Minimum density at least 0.05 gpm/ft² to the design sprinklers

Yes No Area per sprinkler specified

Yes No Areas outside of the dwelling unit, such as garages or lobbies, protected in accordance with the design criteria of NFPA 13 or the specific design criteria of NFPA 13R

Yes No N/A Limitations (dimension, flow, and pressure) on extended coverage or other listed special sprinklers specified

Yes No N/A Domestic demand included, as part of the system demand, for systems with common domestic and fire mains

Water Supply

Is the following information provided?

Yes No Water test location

Yes No Date and time of test

Yes No Static pressure, residual pressure, and flow in gpm

Yes No Flow test “conducted by” contact information on plans

Size of main indicated Yes No Dead-end main Looped main

Other sources of water supply, with pressure or elevation: _____

Private Fire Service Mains

Is the following information provided?

Yes No Sizes of mains

Yes No Pipe lengths

Yes No Pipe locations

Yes No Weights

Yes No Pipe materials

- Yes No Point of connection to city main
- Yes No Sizes, types, and locations of valves
- Yes No Sizes, types, and locations of valve indicators
- Yes No Sizes, types, and locations of regulators
- Yes No Sizes, types, and locations of meters
- Yes No Sizes, types, and locations of valve pits
- Yes No Depth of top of pipe laid below grade

Construction

Is the following construction information provided on plans/specification?

- Yes No Full height cross sectional of structural and ceiling construction
- Yes No Location of partitions
- Yes No Location of fire walls
- Yes No Location and size of concealed spaces, closets, attics, and bathrooms
- Yes No Scale used

Sprinkler Components

Is the following sprinkler component information provided on plans/specification?

- Yes No Make, type, model, nominal K-factor of sprinklers, and sprinkler identification number
- Yes No Temperature rating and location of high-temperature sprinklers
- Yes No Pipe type and schedule of wall thickness
- Yes No Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions)
- Yes No Location and size of riser nipples
- Yes No Type of fittings and joints and location of all welds and bends
- Yes No Specifications of any sections to be shop welded and type of fittings or formations to be used
- Yes No Type and location of hangers, sleeves, braces, and methods of securing sprinklers when applicable
- Yes No All control valves, check valves, drain pipes, and test connections
- Yes No Make, type, model, and size of alarm, dry pipe, and preaction valves
- Yes No Size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment
- Yes No Calculation of loads for sizing and details of sway bracing
- Yes No Setting for pressure-reducing valves
- Yes No Manufacturer, size, type of backflow preventers
- Yes No N/A Type and amount of antifreeze solution used
- Yes No N/A If there is a separate control valve for the sprinkler system, is it supervised
- Yes No Pressure gauge indicated on the system and the supply

Design

Is the following design information provided on plans/specification?

- Yes No Total area protected by each system on each floor
- Yes No Number of sprinklers on each riser per floor
- Yes No N/A Total number of sprinklers on each dry pipe, preaction, combined dry pipe-preaction, or deluge system
- Yes No N/A Approximate capacity (in gallons) of each dry pipe system



- Yes No Piping provisions for flushing
- Yes No Where equipment is to be installed as an addition to an existing system, is enough of existing system indicated to make all conditions clear
- Yes No Hydraulic data nameplate (for hydraulically designed systems)
- Yes No Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydraulic calculation sheets
- Yes No Pipe sizes and lengths shown on the plan correspond with the sizes and lengths shown on the hydraulic calculation sheets
- Yes No Minimum rate of water application (density), design area of water application, and water required for inside and outside hose streams
- Yes No Total quantity of water and pressure required noted at a common reference point for each system
- Yes No Relative elevations of sprinklers, junction points, and supply or reference points
- Yes No Pressure loss for backflow preventor and/or meter included in hydraulic calculations
- Yes No Is the most demanding area calculated

Fire Department Connection(s), Alarms, Fire Hydrants

Is the following information provided on plans/specification?

- Yes No N/A For building exceeding 2,000 ft² or greater than a single story, the size, location, and piping arrangement of the fire department connections indicated
- Yes No Kind and location of alarm bells
- Yes No Fire alarm system connection
- Yes No Size and location of hydrants (showing size and number of outlets and whether outlets to be equipped with independent gate valves)

Approval

Reviewer: _____ Date: _____

Approved Yes No

If no, reason(s):

Notes: