

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 13D
(If no, utilize NFPA 13 or 13R checklist)

Yes No Project is a residential occupancy that is a one- or two-family dwelling or manufactured home
(If no, NFPA 13D 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 13D Edition: _____

Other _____

- Sprinkler system required by building or fire code
- Sprinkler system required by local ordinances
- Sprinkler system required for equivalency, alternative level of protection, etc.
- Sprinkler system not required, property owner voluntary safety improvements
- Other _____

Sprinkler Type and Coverage

Type of sprinkler system: Wet Dry Preaction Anti-freeze Pre-engineered

Yes No System is a multipurpose or network system

- Yes No Sprinklers omitted in some areas
- Yes No If yes, omissions allowed per NFPA 13D Omitted area(s) _____
- Area of coverage Total Partial Other _____
- Yes No All wet piping in areas that are maintained above 40°F

Design Specifications

- Yes No System hydraulically calculated
- Yes No Design area of water application specified
- Yes No All sprinklers, up to two, 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 N/A Limitations (dimension, flow, and pressure) on sprinklers specified

Water Supply

Is the following information provided?

- Yes No Water test location indicated
- Yes No Date and time of test
- Yes No Is the static pressure, residual pressure, and flow in gpm indicated
- Yes No Flow test “conducted by” contact information on plans
- Yes No Size of main indicated
- Dead-end main Looped main

Other sources of water supply, with pressure or elevation _____

Construction

Is the following construction information provided on plans/specification?

- Yes No Location of partitions
- 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 Type of pipe approved for the proposed application
- Yes No N/A If an FDC is provided, pipe meets the minimum pressure rating
- Yes No Nominal pipe size and cutting lengths of pipe (or center-to-center dimensions)
- 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, or preaction valves

- 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 sprinkler system, it is supervised
- Yes No N/A If a pressure tank is used, a pressure gauge installed to indicate tank pressure
- Yes No N/A If the system is dry, a pressure gauge indicated on the system to indicate air pressure

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 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 Do pipe sizes and lengths shown on the plan correspond to the sizes and lengths shown on the hydraulic calculations sheets
- Yes No The minimum pipe size is ¾ in. piping system
- Multi-purpose
- Yes No N/A If the system is a multipurpose piping system and utilizes ½ in. pipe, the specific design criteria are met for the utilization of this pipe
- Yes No Minimum rate of water application (density) and design area of water application specified
- 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 Most demanding area is calculated
- Yes No N/A Devices that restrict flow or reduce pressure, such as filtration or water softening, shown

Alarms, Special Requirements

Is the following alarm and special signage information provided on plans/specification?

- Yes No N/A If required, the kind and location of alarm bells are indicated
- Yes No N/A If required, the fire alarm system connection is indicated
- Yes No N/A If the system is a multipurpose piping system, a sign warning of water restricting devices is specified

Approval

Reviewer: _____ Date: _____

Approved Yes No

If no, reason(s):

Notes:

