Sprinkler Plans and Documents Submittal Requirements

Comply with 2012 IFC and 2013 NFPA 13 or 13R

1) Drawings must be Stamped/signed/dated by R.M.E.
2) Name of owner and/or occupant
3) Location, including correct street address
4) Site Plan showing all Bldgs on site, FDC’s, Streets & Fire Hydrants
5) Name, Address and Phone Number of Installing Company
6) Name, Address and Phone Number of R.M.E. or P.E. if other than installing company.
7) Point of Compass
8) Scope of work
9) UL Monitoring and Harris Cty. Requires Occupant Audio/Visual notification on sprinkler systems (note on the plans)
10) Exterior & Interior elevations, including Structural Members information if required for clarity, include ceiling construction and method of protection for nonmetallic piping.
   a) Ceiling Height & type (ex. Open truss)
   b) Unobstructed or obstructed construction
   c) Smooth ceiling
11) Location of partitions w/height and location of Fire Walls
12) Location of Horizontal Exits
13) Location & size of concealed spaces, closets, attics and bathrooms
14) Label all rooms or occupancy class of each room or area:
   a) Light Hazard
   b) Ordinary Hazard
   c) Office, Classroom, Computer etc.
15) If using Small Rm rule provide rm size
16) Size of water main at the street and Fire line w/ water supply test results info & date tested
17) Make, Model & Nominal K-Factor w/ manufactory spec sheets
   a) Sprinkler Types being installed w/ coverage dimensions
   b) Temperature Ratings
   c) Light Hazard shall be Quick Response
18) Number of Sprinkler heads on each riser and on each floor/sheet/bldg.
19) For multiple systems (ex. Large warehouses) provide total square ft for each system area
20) Approximate capacity in gallons of each Dry Pipe system, Provide Auxiliary Drains
21) Nominal Pipe size w/ schedule of Wall thickness w/ manufactory spec sheets
22) Sprinkler Position, Location, Spacing and Use:
   a) Maximum protection area
b) Maximum & minimum distance from walls and between heads

c) Deflector position, Distance below ceilings

d) Clearance to storage

e) Skylights and if used for Smoke or Heat vents

f) Ceiling Pockets

g) Etc.

23) Type of fittings, vics, joints & location of welds and bends (shall specify on drawings any sections to be shop welded or formation used)

24) Type and Location of Hangers, Sleeves, Braces and methods of Securing

25) All Valves: Control, check, drain and where draining too. Valves other than outside Backflow aboveground or in a vault (can be chained & locked) all others must be electronically monitored

26) Harris Cty. Requires Inspectors test to be at the most remote area, not at the riser

27) Make, type, model and size of Alarm or Dry Pipe valve, Pre-action or Deluge valves

28) Type and Location of Alarm Bell and Sequence of operation

29) Location and Diagram of all Risers w/ pressure Gauges above and Below Check Valve, Harris Cty.

   Requires riser rooms to be minimum 1 hr rated w/ access from the outside & labeled

   a) Location of all valves

   b) Types

   c) Pipe size

   d) Monitoring

30) Where the underground pipe inters the bldg. and if done by others

31) For Hydraulically designed systems, information to be on Data Name plate

32) If connecting to an existing system show enough of existing system to make all conditions clear, include existing riser rm, Tie-in

33) Provide a proper Architectural scale match door openings to scale

34) The minimum rate of water application (Density) the design area, in-rack demand and the water required for hose streams both inside and outside

35) Relative elevations of Sprinklers, Junction points & supply or reference points

   a) Distance of Upright Head deflectors below ceiling, deck, etc.

   b) Distance of Horizontal Sidewall deflectors below ceiling, deck, etc.

36) Settings for PRV’s if needed

37) Specs for Backflow Preventers, dry pipe valves, compressors, etc

38) Info & manufactory specs for Anti-freeze systems and solution used

39) Combustibility of Hydraulic Fluid in the elevator pit

40) Size, location & pipe arrangements for the Fire Department Connections (FDC’s), must be street front and visible, or near the nearest Fire Department access or Harris Cty. Approved fire lane without any obstructions. Must have a check valve w/ ball drip and NO control valves between FDC and system.

41) FDC’s must have signs per IFC 912.4 & NFPA 13 8.17.2.4.7

42) If Electric Fire Pump involved provide From the Power Company a 24 month power outage report

43) If system is a Gridded system show location of Pressure Relief Devices