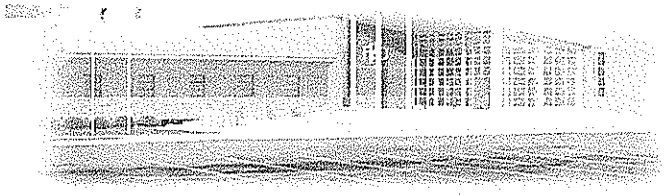

PLAINFIELD FIRE PROTECTION DISTRICT

23748 W 135th Street, Plainfield, Illinois 60585 (815) 436-5335 (815) 436-6420 fax

Any questions should be directed to the Plainfield Fire Protection District at 815-436-5335.

Plainfield Fire Protection District Ordinance requires the installation of a fire sprinkler system for all new commercial and multifamily construction with a fire area that exceeds 2,000 square feet. Renovation projects, certain remodling projects and when a building undergoes a change in use will also affect when the requirements for a fire sprinkler system go into effect for existing buildings. Prior to the installation of a fire sprinkler system, plans must be submitted to the Plainfield Fire Protection District for review and approval. All fire sprinkler system installations must meet the requirements of the International Fire Code, NFPA 13, 13R or 13D and local amendments.

SPRINKLER SYSTEM PLAN REVIEW SUBMITTAL GUIDELINES

Plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor, and shall show the items from the following list that pertain to the design of the system:

1. Name of owner and occupant.
2. Location, including the street address.
3. Point of compass.
4. Full height cross section, or schematic diagram, including structural member information if required for clarity and including ceiling construction and method of protection for nonmetallic piping.
5. Locaton of partitions.
6. Location of fire walls.
7. Occupancy class of each area or room.
8. Location and size of concealed spaces, closets, attics and bathrooms.
9. Any small enclosures in which no sprinklers are to be installed.
10. Size of the water main in the street and whether its dead end or circulating. If dead end, the direction and distance to the nearest circulating main and the main test results and system elevation relative to the test hydrant.
11. Other sources of water supply with pressure or elevation.
12. Make, type, model and nominal K-factor of the sprinklers including sprinkler identification numbers.
13. The temperature, rating and location of high-temperature sprinklers.
14. The total area protected by each system, on each floor.
15. The total number of sprinklers on each riser per floor.
16. The total number of sprinklers on each dry pipe system, preaction system, combined dry pipe/preaction system or deluge system.
17. The approximate capacity in gallons of each dry pipe system.
18. The pipe type and schedule of wall thickness.
19. The nominal pipe size and cutting lengths of pipe (or center-to-center dimensions). Where typical branch lines prevail, it shall be necessary to size only one typical line.
20. The location and size of riser nipples.
21. The type of fittings and joints and the location of all welds and bends. The contractor shall specify on the drawing any sections to be shop welded and the type of fittings or formations to be used.

22. The type and locations of hangers, sleeves, braces and methods of securing sprinklers when applicable.
23. Show all control valves, check valves, drain pipes and test connections.
24. The make, type, model and size of alarm or dry pipe valves.
25. The make, type, model and size of preaction or deluge valves.
26. The kind of and location of alarm bells.
27. The size and location of standpipe risers, hose outlets, hand hose, monitor nozzles, and related equipment.
28. Private fire service main sizes, lengths, locations, weights, materials and the point of connection to the water main. The sizes, types and locations of valves, valve indicators, regulators, meters, valve pits and the depth that the top of the pipe is laid below grade.
29. The piping provisions for flushing.
30. Where the equipment is to be installed as an addition to an existing system; enough of the existing system needs to be indicated on the plans to make all connections clear.
31. For hydraulically designed systems, the information on the hydraulic data nameplate.
32. A graphic representation of the scale used on all plans.
33. The name and address of the contractor.
34. Hydraulic reference points shown on the plan that correspond with comparable reference points on the hydralic calculations sheets.
35. The minimum rate of water application (density), the design area of water application, in-rack sprinkler demand, and the water required for hose streams both inside and outside.
36. The total quantity of water and the pressure required noted at a common reference point for each system.
37. Relative elevations of sprinklers, junction points, and supply or reference points.
38. If the room design method is used, all unprotected wall openings throughout the floor are to be protected.
39. Calculation of loads for sizing and details of sway bracing.
40. The setting for pressure-reducing valves.
41. Information about the backflow preventer: manufacturer, size and type.
42. Information about the antifreeze solution used (type and amount).
43. The size and location of hydrants, showing the size and number of outlets and if the outlets are to be equipped with independent gate valves. Whether hose houses and equipment are to be provided and by whom. Static and residual hydrants that were used in flow tests shall be shown.
44. The location and piping arrangement of fire department connections. **The Plainfield Fire Protection District requires the fire department connection to be a 5 inch Storz with a 30 degree elbow.**
45. The plan submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications and limitations for any sprinklers, devices, piping or fittings.
46. **ALL CONTRACTORS MUST BE REGISTERED WITH THE STATE OF ILLINOIS, OFFICE OF THE STATE FIRE MARSHALL, AND PROVIDE A COPY OF THEIR STATE LICENSE AND INSURANCE/BOND CERTIFICATE.**

No guarantee is rendered as to the completeness of the plan review, and the responsiblility for full compliance with both state and locally adopted codes, standards and regulations rests with the owner or their authorized agent or subcontractor. Subsequent discovery of errors or omissions shall not be construed as authority to violate, cancel or set aside any provision of any applicable codes.