

# Village of Gilberts

## Plan Review Guide for Fire Sprinkler Systems

**Project Name:** \_\_\_\_\_  
**Project Address:** \_\_\_\_\_  
**Contractor:** \_\_\_\_\_  
**Phone Number:** \_\_\_\_\_  
**Fax:** \_\_\_\_\_  
**E-mail:** \_\_\_\_\_

Fire sprinkler (suppression) system installation information shall be provided on the appropriate architectural and engineered drawings. A copy of this guide shall be attached to the submitted drawings. A review will not be conducted without this guide being submitted with the drawings.

The following items shall be included on the drawings. Place N / R next to the item(s) not required by the code. Place N / A for items non-applicable.

1. \_\_\_\_\_ One copy of the site plan approved by the Village of Gilberts Engineers.
2. \_\_\_\_\_ Point of compass.
3. \_\_\_\_\_ Full height cross section including ceiling construction.
4. \_\_\_\_\_ Locations of partitions.
5. \_\_\_\_\_ Occupancy of each area or room.
6. \_\_\_\_\_ Location and size of concealed spaces and closets, attics and bathrooms.
7. \_\_\_\_\_ Any questionable small enclosures in which no sprinklers are to be installed.
8. \_\_\_\_\_ Size of Village main in street, pressure and indicate looped or dead-end.
9. \_\_\_\_\_ Rutland Dundee Fire Protection District main test results and elevation relative to test hydrant.
10. \_\_\_\_\_ Other sources of water supply, with pressure or elevation.
11. \_\_\_\_\_ Make, type and nominal orifice size of sprinklers.
12. \_\_\_\_\_ Temperature rating and locations of high temperature sprinklers.
13. \_\_\_\_\_ Total area protected by each system on each floor.
14. \_\_\_\_\_ Number of sprinklers on each riser per floor.

15. \_\_\_\_\_ Total number of sprinklers on each dry-pipe system, pre-action system, combined dry-pipe / pre-action system or deluge system.
16. \_\_\_\_\_ Approximate capacity in gallons of each dry-pipe system.
17. \_\_\_\_\_ Pipe type and schedule of wall thickness.
18. \_\_\_\_\_ Nominal pipe size and cutting lengths of pipe (or center to center dimensions).
19. \_\_\_\_\_ Locations and size of riser nipples.
20. \_\_\_\_\_ Type of fittings and joints and locations of all welds and bends.
21. \_\_\_\_\_ Type and locations of hangers, sleeves, braces and methods of securing sprinklers where applicable.
22. \_\_\_\_\_ All control valves, check valves, drains and test connections.
23. \_\_\_\_\_ Make, type, model and size of alarm or dry-pipe valve.
24. \_\_\_\_\_ Make, type, model and size of pre-action or deluge valve.
25. \_\_\_\_\_ Kind and location of alarm bells and blue strobe light. Village Ordinance.
26. \_\_\_\_\_ Location of Fire Department Connection(s). Minimum of one (1) 2-1/2" x 2-1/2" standard connection and one (1) 4" sexless Storz connection. Village Ordinance.
27. \_\_\_\_\_ Size and location of hand hose, hose outlets and related equipment.
28. \_\_\_\_\_ Underground pipe size, length, location, weight, material, point of connection to Village main; the type of valves, meters, and valve pits; and the depth that top of pipe is laid below final grade.
29. \_\_\_\_\_ Provisions for flushing.
30. \_\_\_\_\_ When the equipment is to be installed as an addition to an existing system, enough of the existing system to make condition clear.
31. \_\_\_\_\_ For hydraulically designed systems, the material to be included on the hydraulic data nameplate.
32. \_\_\_\_\_ A graphical representation of the scale used on all plans.
33. \_\_\_\_\_ Hydraulic reference points corresponding to comparable reference points on the hydraulic calculation sheets.

34. \_\_\_\_\_ The minimum rate of water application (density), the design area of water application, in-rack sprinkler demands and the water required for hose streams both inside and outside.
35. \_\_\_\_\_ The total quantity of water and the pressure required noted at a common reference point for each system.
36. \_\_\_\_\_ Relative elevations of sprinkler, junction points, and supply or reference
37. \_\_\_\_\_ Method of firestopping and draftstopping as required.
38. \_\_\_\_\_ Calculation of load sizing and detail of sway bracing.
39. \_\_\_\_\_ The setting for pressure reducing devices.
40. \_\_\_\_\_ Information with cut sheets about backflow preventers.
41. \_\_\_\_\_ Information about antifreeze solution used (type and amount).