

Fire Protection Plans (Preferred scale 1/4" = 1')

Complete the Commercial or Residential Building Permit Application and include fee of:

Ansul System = \$ 100.00 or NFPA 13 System = \$ 500.00 or 1% whichever is greater

Provide 2 copies of the plans showing **all** of the following:

Complete a sprinkler design data sheet and include it on the first plan of the sprinkler drawings.

Show floor plans for each floor with sprinkler piping layout, pipe sizes, pipe hanger details, piping materials, doors, walls and room identities.

Residential Building and Zoning Permit Application Package

Show ceiling plans with sprinkler head(s) layout, walls, soffits, openings, doors, dimensions and room identities.

Verify system design by providing hydraulic calculations along with the following:

- Recent water flow test
- Percent safety margin
- Type of backflow-preventer or reduced pressure zone showing equivalent foot loss
- Fire pump summary

Note the type of sprinkler system used (e.g., 13, 13D, or 13R)

Indicate the certified testing laboratory agency (e.g., U.L.), their test number and hourly ratings of all new and/or affected rated members and assemblies (i.e. columns, beams, floor/ceiling and ceiling/roof fire-rated design assemblies). Show all new and/or affected fire-rated walls with their ratings, if not shown elsewhere.

All penetrations of fire-rated construction must be per manufacturer's details. Details shall meet or exceed ratings of construction being penetrated. Penetration details shall be exactly as tested by a certified testing laboratory or agency and shall include their system numbers. All new penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.

Provide a fire alarm riser showing connection to a UL-approved central station. Show tamper switches on both OS and Y valves of backflow prevention device, unless shown elsewhere.

Indicate commodity class (per section 2303 of the International Fire Code) and height of any storage.

Provide Material Safety Data Sheets for any hazardous materials (also specified under Architectural Plans.

Where special temperature-rated or high-temperature sprinklers are required, show sprinkler type(s) per area, office size, cut sheets with K-factor, water requirements, spray pattern, coverage and other pertinent data.

SYSTEM CALCULATIONS (FIRE PROTECTION) Calculations for hydraulic systems should include:

- Flow and pressure at each flowing sprinkler head
- Flow diagram for a grid system.