



WOODSIDE FIRE PROTECTION DISTRICT
Residential Fire Sprinkler System

Design/Installation Requirements

808 Portola Rd. #C Portola Valley, CA 94028 Fire Prevention 650-423-1405 Fax 650-851-3960

January 2020

Fire Sprinkler Plan Check/Inspections Fee:

\$450.00

This fee includes 2 plan checks and 2 inspections.

Third plan check will be \$225.00 and additional inspections will be \$90.00.

Inspections Required:

- 1) **Rough/Hydro;** 200 psi holding for 2 hours & visual inspection of all piping
- 2) **Final Fire Sprinkler;** flow of system at inspector's test valve, bell activation, verification system pressure and correct meter size.

AS-BUILTS REQUIRED IF MODIFYING INSTALLATION FROM APPROVED PLANS

TO SCHEDULE INSPECTIONS CALL 650 851-1594

or email info@woodsidefire.org

The following is required to submit a fire sprinkler submittal. System should be designed per NFPA 13d, 13R or 13 system. The addition of attic pilot heads at 20-foot (maximum) intervals along attic roof ridgelines is required.

General Information

- Property address
- Name and address of the property owner and/or general contractor
- Name, address, phone, fax, and license number of installing sprinkler contractor
- City water pressure information. Indicate the source date of the information.

- Well, pump, and storage tank information. Include a well report and data sheet for the pump and or tank
- Full height building cross section showing the location of the sprinkler heads and piping
- Symbol legend
- Sprinkler legend including totals for the project

Site Plan

- Relevant property lines
- Outline of residence and any additional structures located on the property
- North arrow
- Streets adjoining property
- Access roads, driveways, etc.
- Location, size, pipe type, and length of underground supply line from the city main to the water meter
- Location and size of the water meter
- Location, size, pipe type, and length of underground supply line from water meter to house
- Location and size of the fire sprinkler riser
- Elevation difference between the base of the fire sprinkler riser and the city connection
- Hydraulic reference points

Fire Sprinkler Riser Detail

- Location of main control valve for the domestic and fire sprinkler systems
- Location of the domestic tie-in showing the domestic control valve
- Location of the water flow switch, check valve, pressure gauges, and test/drain assembly
- Location of transitions between all piping materials
- Hydraulic reference point

NFPA 13D, 13R or 13 shall be utilized in the design of fire sprinkler systems.

Piping Plans:

- All plans must be drawn to an indicated scale on a minimum sheet size of 24" x 36"
- Completely dimension the plans. Dimension the sprinkler heads off of all adjacent walls

- Location and type of all light fixtures. Indicate the size and depth of all fixtures that are not flush with the ceiling
- Location of all heat producing devices (i.e. fireplaces, wood stoves, ovens, ranges, diffusers, furnace, water heaters, etc.) Show the heat zone of each device and maintain the proper distances from these devices.
- Show location of ceiling fans
- Ceiling elevations. Clearly indicate any sloped, beamed, or special shaped ceilings. Indicate the degree of slope (or rise/run) on all sloped ceilings.
- Size, depth, and spacing of any exposed beams
- Provide room names
- Clearly indicate the use of any area or room where sprinkler protection is not being provided
- The location of all sprinkler heads
- All sprinklers must be spaced along the slope of the ceiling
- Indicate the type, size, and length of all pipe
- Indicate the type and location of all pipe hangers
- Riser location
- Method of freeze protection
- Hydraulic reference points
- Indicate the basis for the hydraulic design (i.e. 16 x 16 spacing, 18 x 18 spacing, etc.)
- All sprinklers must comply with the current UL 1626 requirements providing a minimum density of .05-gpm/sq. ft. (The discharge requirements and number of design sprinklers shall be in accordance with the manufacturer's literature).
- Pilot sprinklers shall be installed at 20-foot (maximum) intervals along accessible attic ridgelines.
- Audible notification device for sprinkler activation reqd. device must be audible in all bedrooms. Flow switch can be interconnected with the smoke detection system for audible alerting purposes.
- Location of audible device shall be shown.
- A 200-psi hydrostatic test will be required.
- Systems with tanks and pumps must be interconnected to the domestic water system.

Submittals:

Woodside Fire Protection District requires 3 sets of sprinkler plans and calculations. You may submit either digitally up to 250MB @ wfpdsprinklerreview@woodsidefire.org or submit directly to WFPD; located at 808 Portola Rd. #C Portola Valley, CA 94028. Along with the submittal package a \$450.00.00 (Plan review/inspection fee) will be required. (See WFPD Fee Schedule for commercial installations with more than 100 heads). You can pay online <https://www.woodsidefire.org/prevention/fee-schedule> or send a *check, payable to Woodside Fire Protection District*

****NOTE****

If your project is under review through SMC Building Department, please beware that you need to **ALSO** submit to SMC Building. Contact SMC Building at 650-599-7311 for fee and submittal requirements.

Each project is unique and additional requirements may be required as deemed appropriate.

A final inspection will be conducted to verify head installation, pressure and meter size.

I have reviewed the above list and have complied (or will comply) with all items checked. The items that do not apply to this project have been indicated as N/A. Any items not checked or indicated as N/A have been addressed in the attached letter. I understand that if all the information required above is not shown on the plans or in the calculations the submittal will be returned without review.

LIST ALL VALID CONTACT INFORMATION

NAME: _____ TITLE: _____ DATE: _____

OFFICE PHONE #: _____

CELL PHONE #: _____

EMAIL WHERE ALL LETTERS WILL BE SENT

EMAIL: _____

Project Address