



N·C·S·D

Northstar Fire Department
Northstar Community Services District
910 Northstar Drive, Northstar, CA 96161
P: 530.562.1212·F:530.562.0702·www.northstarcsd.org

Board of Directors
JEANN GREEN
NANCY P. IVES, PRESIDENT
FRANK SEELIG
DARRELL SMITH
CATHY STEWART
Fire Chief
MARK SHADOWENS

Sprinkler System Installation Guide

NFPA 13D (One and Two Family Dwelling)

Fire Sprinkler Plan Review Process:

- 1. Schedule appointment with the fire prevention office (530-562-1212 ext. 1) and bring in one set of fire sprinkler plans. During this time all requirements related to installing the fire sprinkler system will be reviewed with the fire sprinkler contractor.**
- 2. All fire sprinkler plans shall be designed to meet the requirements of the 2013 edition of NFPA 13D, CRC, CFC, Northstar Community Services District (NCSD) ordinance 27-11, NCSD water ordinance 21-05, and any additional requirements as outlined within this document.**
- 3. All fire sprinkler plan submittals shall include all required information as outlined in the 'Determination of use of Antifreeze Solutions in Residential Fire Sprinkler Systems'. (Document can be found on the NCSD web-site at; www.northstarcsd.org/firesprinklers.html)**
- 4. Plans submitted for review shall be drawn to scale; preferred scale is ¼ inch equals one foot. All plans shall clearly indicate pipe size, pipe lengths, nipple size and lengths, hydraulic calculations, cut sheets, sprinkler head symbols, hanger details, and any special construction features.**
- 5. District water pressure information. Indicate on plans source of information.**

Design Criteria and Testing Requirements

- 1. All risers shall be designed and constructed per the districts standard riser detail, no exceptions. A copy of the standard detail will be provided. All risers shall be within a conditioned space.**
- 2. Underground pipe shall be tested at 150psi for two hours. System flush, visual trench inspection and tests to be witnessed by a member of the fire prevention staff.**
- 3. The above ground piping shall also be hydrostatically tested at 150psi for two hours.
(Above ground fire sprinkler piping shall be visually inspected prior to any sheetrock or insulation.)**



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4. Fire sprinkler contractor to complete and install informational placard on riser. Informational placard is supplied to contractor by Northstar Fire Department.
5. Prior to a final sign off of the fire sprinkler system a backflow certification certificate needs to be provided by the fire sprinkler contractor.
6. Hydraulic calculations shall include a minimum of five 5 psi safety factor at maximum system flow.
7. Alarm Systems: Minimum requirement; local audible on Flow and tamper switches. If exterior audible device is not readily heard in the interior of the structure, notification devices shall be added. (See also NCSD Ordinance 27-11)

NCSD Ordinance 28-13 Additional Requirements.

1. Garages shall be provided with automatic sprinkler protection. (Section 3.9)
2. Sprinkler system supervision and alarms: All valves including flow switch shall be monitored by a local audible alarm so that all valves stay in the open position. (Section 3.10)
3. Alarms: An exterior bell shall be of 10-inch minimum size and/or the exterior electronic notification device shall be measured at minimum of 110db, read at the street. (Section 3.11)

Pre-Schedule All Inspections with Fire Inspector: Contact Information

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