

**MONTECITO FIRE PROTECTION DISTRICT
FIRE PROTECTION PLAN**

Section 5b

INSTALLATION REQUIREMENTS FOR NON-RESIDENTIAL SPRINKLER SYSTEMS

It is the policy of the Fire District to require an approved automatic fire sprinkler system in all non-residential structures as required by the Code.

This sprinkler standard is based upon the National Fire Code Standard 13, 2010 Edition published by the National Fire Protection Association (NFPA) as may be amended from time to time. The Fire District has made the following modifications to the NFPA 13 Standard:

1. Sprinkler Contractor's shop drawings (3 sets) shall be received by the Fire District three weeks prior to any sprinkler system installation. Drawings shall meet all conditions of this Standard. All field changes shall be initialed and shown on a stamped, approved set of drawings by the job foreman. Approved shop drawings shall be maintained and retained on the job site at all times that pipe is being installed.
2. Sprinkler shop drawings shall be subject to review by a Fire District retained consultant at the Fire Chief's discretion. All costs associated with this review shall be paid for by the property owner.
3. Sprinkler Contractor's shop drawings shall be in compliance with NFPA 13 guidelines. It shall be the decision of the Fire Chief as to whether compliance has been met. Required information on the drawings shall include the following:
 - a. Cross-sectional drawings for all typical sprinklered areas.
 - b. Riser schematic details to include all valving, jointing and support bracing.
 - c. Control diagram for flow switch.
 - d. Details of all typical hanger and bracing applications for this work.
 - e. All applicable support and drainage provisions as described in NFPA 13 shall be met by the Sprinkler Contractor. Auxiliary drains shall be routed to the building exterior.
 - f. A list of all abbreviations and symbols shall be provided on the drawings.
 - g. Certification required for all welding. All welding to be indicated on shop drawings.
4. The following note shall appear on each sheet of required shop drawings: "I certify that this sprinkler system is in full compliance with the design criteria of the Montecito Fire Protection Plan". This note shall appear along with the Sprinkler Contractor's dated signature and seal.

5. The sprinkler shop drawings shall bear the signature and registration number of a NICET Level III sprinkler designer. At the discretion of the Fire Chief the sprinkler designer may submit resume and credentials which demonstrate an equivalent level of expertise.
6. Maximum flow rate for any underground pipe shall not exceed 16 feet per second. Maximum flow rate for any above ground pipe shall not exceed 20 feet per second.
7. All pipe and materials delivered to the job site shall be protected from the elements and physical damage.
8. All penetrations of fire separation walls by sprinkler piping shall be sealed with a suitable sealant prior to final inspection.
9. The sprinkler system shall be inspected at the following intervals:
 - a. All welded sections shall be field inspected prior to installation. All burrs, slag, and welding residue shall be filed and removed prior to inspection.
 - b. All piping shall be inspected prior to being covered, buried or concealed.
 - c. Hydrostatic testing will be required upon completion of piping installation.
 - d. Final inspection for system acceptance shall be completed prior to granting occupancy clearance. A set of approved shop drawings with all field changes shall be produced for this inspection. All components of this system shall be operational and in compliance with this Section.

All required inspections shall be arranged to allow the Fire District 48 hours advance notice. Any work completed without the required inspections shall be removed and replaced at the discretion of the Fire Chief.

10. All underground pipe shall be bedded on a puddled and tamped 4 inch thick base of yellow sand prior to hydrostatic testing. Backfilling shall consist of an initial 12 inch lift of tamped yellow sand. Subsequent compacted lifts of 12 inches, or a fraction thereof, shall be made with clean backfill.
11. The manufacturer's published design and installation guidelines shall prevail over NFPA guidelines. The Sprinkler Contractor shall provide all information as deemed necessary by the Fire Chief to establish evidence of compliance with the Manufacturer's guidelines.
12. All system valving shall be UL and/or FM listed for fire sprinkler service.
13. Any deviations from procedures described within this Standard shall be allowed only with the express written consent of the Fire Chief.