

Caldwell County Fire Marshal's Office

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Fire Sprinkler/Standpipe Submittal Requirements

The following information must be submitted to and approved by the Fire Marshal's Office prior to any installation per section 901.2 of the North Carolina State Fire Prevention Code and future revisions:

1. A completed Caldwell County Building Permit Application.
2. A scaled and detailed floor plan with the system designer indicated and the date of design. If the plans are for the installation of a sprinkler system in a high-rise building, the plans must be sealed by a North Carolina registered Professional Engineer (PE). The scale must be clearly indicated on the plans. An elevation drawing must also be included with plans for high rise buildings.
3. The designer's North Carolina Sprinkler License number and NICET Level must be clearly indicated on the plans.
4. The square footage of each riser's protection area and clear notations of any non-sprinkled areas must be indicated.
5. Descriptions and specifications for all the systems components including pipe sizes and sprinkler heads.
6. Hydraulic calculations for the system. This shall include hydraulic calculations for any modifications to a previously hydraulically calculated system.
7. Type of system being installed (Example: Class 1 standpipe, NFPA 13 Wet-pipe Sprinkler)
8. Fire Department Connection (FDC) location. The threads for the FDC must meet the requirements of the fire district. Unless otherwise approved by the authority having jurisdiction, the FDC must be located on the street side of the building.
9. Standpipe hose thread patterns must be National Standard 2-1/2" and National Standard 1-1/2". The protection zone is a maximum of 120 feet from the standpipe hose connection as measured around any obstructions.
10. A scaled site plan must be included indicating the FDC location and all on-site fire hydrants. The building and all fire apparatus access roadways must also be indicated.
11. Plans must be mailed or hand delivered. No fax copies
12. After acceptance testing has been completed and witnessed by the Fire Marshal or his/her representative, the installing company shall provide the owner/occupant and the Fire Marshal with a completed NFPA certificate of compliance form.

Codes used in the review: North Carolina State Fire Prevention Code
North Carolina State Building Code
Applicable National Fire Protection Association Standards

Additional information may be required prior to approval of the submitted plans. The above requested information is not all-inclusive.