

**CITY OF HENDERSON
FIRE DEPARTMENT GENERAL NOTES
RESIDENTIAL FIRE SPRINKLER
ONE- AND TWO-FAMILY DWELLINGS**

1. The installation and maintenance of the sprinkler systems shall be in accordance with the applicable National Fire Protection Association (NFPA) Standard; and the International Fire Code, 2009 Edition, Chapter 9 – Fire Protection Systems; (as amended and adopted on January 18, 2011 by the City of Henderson). Check the applicable box and indicate the enclosed building area.

- NFPA 13D, 2010 Edition – Residential 1- and 2-Family Dwellings
 - Enhanced NFPA 13D, 2010 edition – See Table 8.7 and Section 8.7.2.1
 - Enhanced NFPA 13R, 2010 edition – See Table 7.5 and Section 7.5.1
 - Modified NFPA 13, 2010 edition – See Table 21.38.1 and Section 21.38.2
- Building area enclosed (living space + garage): _____ sq. ft

2. All hydrostatic tests of systems and flushing of underground systems must be witnessed by a representative of the authority having jurisdiction. The authority having jurisdiction, Henderson Fire Safety, must be notified 24 hours before any test for Enhanced NFPA 13R and Modified NFPA 13 underground lead-ins. All portions of the automatic sprinkler system, including the underground service from the gate valve, road box or check valve to the riser, must be installed, tested and flushed by a company licensed by the State fire marshal to perform this work. **HMC § 15.32.050 & NAC 477.465 (5).**

3. Fire Department Connection (FDC), Enhanced 13R and Modified 13 systems , shall be within 100 feet of a fire hydrant and shall face the fire lane or street. FDC inlets shall be located not less than 18” above finished grade and not more than 48” above finished grade. For additional FDC requirements, see Section 21.38.2.1 for Modified NFPA 13 design and Section 6.11 for Enhanced NFPA 13R design.

4. Post Indicator Valves (PIV) shall not be installed.

5. Building use: Single family dwelling

Hazard classification: Residential – light hazard

Density: _____ gpm/sq.ft.

Area reduction for Quick Response heads based on a ceiling height x= _____ ft.

$Y = \frac{-3x}{2} + 55 =$ _____ % reduction allowed (maximum 40%)

Total number of sprinklers flowing: _____

Nominal “K” Factor(s): _____

Thread types: _____ in. NPT

Maximum design spacing: _____ sq. ft. per head

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6. NFPA 13D system design:
- Flush Multipurpose System – supplies at least one remote toilet from the loop
 - Network Multipurpose System – supplies all cold water domestic fixtures
 - Not Applicable
7. Pipe types used (CPVC unless noted otherwise):
- 1" – 2" pipe type: _____
- 2½" – 4" pipe type: _____
- Other: _____
8. Water flow information:
- City Supplied information
 - Actual Flow Test
- Static Pressure: _____ psi
- Residual Pressure: _____ psi
- Pitot Pressure: _____ psi
- Outlet Size: _____ in. Number flowing: _____
- Total Flow: _____ gpm
- Date & Time: _____
- Witnessed By: _____
9. Pendent sprinklers in one- and two-family dwellings and manufactured homes shall be located at least 3-ft away from obstructions (e.g., ceiling fans and light fixtures). Sidewall sprinklers shall be at least 5-feet away from obstructions.
10. Sprinklers in one- and two-family dwellings and manufactured homes shall be installed under soffits where the soffit exceeds more than 8-inches in width or projection from the wall. Sidewall sprinklers shall be permitted to be installed in the face of a soffit located directly over cabinets, where the soffit does not project horizontally more than 12-inches.

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11. Pendent sprinklers in one- and two-family dwellings and manufactured homes installed near specific heat sources shall be located as required in NFPA 13D, 2010 Edition - Table 7.5.5.3 and NFPA 13R, 2010 Edition - Table 6.2.3.3.3.
12. The installation of a backflow preventer, water treatment and filtration device, or a pressure reducing valve between the water meter and the fire sprinkler system is prohibited for flush multipurpose systems.
13. The installation of devices that restrict flow and/or pressure (e.g., water filtration systems, water softeners and pressure reducing valves) require additional testing to prove one-head and two-head flow scenarios on network multipurpose systems.
14. Concealed Work. Fire sprinkler piping shall not be covered up by walls, sheetrock, ceiling tiles, etc. until after fire sprinkler rough & hydro inspection signoff by the fire inspector. Piping that is covered or concealed prior to inspection signoff shall be exposed for inspection in accordance with 2009 IFC Section 106.3.