HENDERSON FIRE SAFETY
FIRE SPRINKLER GENERAL NOTES

1. The installation and maintenance of the sprinkler systems shall be in accordance with the applicable National Fire Protection Association (NFPA) Standard; NFPA 25, 2020 Edition - Inspection, Testing, and Maintenance of Water Based Fire Protection Systems; and the International Fire Code, 2021 Edition, Chapter 9 – Fire Protection Systems; (as amended and adopted on September 16, 2022, by the City of Henderson). Check all applicable boxes.

   - ❑ NFPA 13, 2019 Edition – Installation of Sprinkler Systems
   - ❑ NFPA 13R, 2019 Edition – Residential Occupancies Up to 2 Stories in Height
   - ❑ NFPA 14, 2019 Edition – Standpipe and Hose Systems
   - ❑ NFPA 20, 2019 Edition – Stationary Pumps for Fire Protection
   - ❑ NFPA 24, 2019 Edition – Private Fire Service Mains and Their Appurtenances
   - ❑ Code Modification / Life Safety / Alternate Methods Permit #(S) _____
   - ❑ Other _____

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 Public Works Department – Quality Control Division, for all underground work, (except for Enhanced NFPA 13R and Modified NFPA 13 underground lead-ins: Henderson Fire Safety Inspections) must be notified 24 hours before any test. 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 §15.32.070 & NAC 477.465 (5).**

3. If any fire area in a building or structure is provided with fire sprinklers, whether required or not, all fire areas in the building or structure shall be provided with fire sprinklers except as permitted by IFC Section 903.2 or where specific sections of NFPA Standards permit the omission of sprinklers. **IFC §903.2, 903.6 and §903.2, 903.6 As Amended.**

4. Fire Department Connection (FDC) shall be within 100 feet of a fire hydrant and shall face the fire lane or street. FDC shall not be closer than 3 feet to any door or window opening and shall not be obstructed by trees, shrubs, parking spaces, etc., and a 3-foot clear space shall be maintained around the FDC inlets. FDC inlets shall be located not less than 18” above finished grade and not more than 48” above finished grade.

5. All Post Indicator Valves (PIV) shall be electronically supervised (tamper switch) and shall be located no closer than 5 feet to the building. PIV’s shall be set so that the top of the post is 32 to 40 inches above finished grade and shall be protected against damage where needed.

6. Building use(s): _____

   Hazard classification(s): _____

   Density(ies): _____ 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: _____ (minimum 5 sprinklers)

   Nominal “K” Factor (s): _____

   Thread types: _____ in. NPT

   Maximum design spacing: _____ sq. ft. per head

7. Pipe types used (black steel unless noted otherwise):

   1” – 2” Threaded pipe type: _____

   1¼” – 4” Welded/Grooved pipe: _____

   6” – 8” Welded/Groove pipe: _____

   Other: _____

FIRE DEPARTMENT GENERAL NOTES
FIRE SPRINKLER

8. Water flow information: Permit / WNA (Engineer Supplied) # _____

❑ City Supplied information ❑ Actual Flow Test ❑ Engineer Supplied

Static Pressure: _____ psi Residual Pressure: _____ psi Hydrant 1 # _____

Pitot Press: _____ psi Outlet Size: _____ in. Hydrant 2 # _____

Number Flowing: _____ Total Flow: _____

Date & Time: _____ Witnessed By: _____ Hydrant Elevation: _____

9. Concealed Work. Fire sprinkler piping shall not be covered up by walls, sheetrock, ceiling tiles, etc. until after fire sprinkler rough & hydro inspections are signed off by the fire inspector. Piping that is covered or concealed prior to inspection signoff shall be exposed for inspection. **IFC §107.4**

10. Specify the total area protected by each system on each floor and the number of sprinklers on each riser per floor. **NFPA 13 §27.1.3 (15) & (16)**

System #:			
System Size sq. ft.:			
Number of Heads:			
System #:			
System Size sq. ft.:			
Number of Heads:			