



A Place To Call Home

DEPARTMENT OF PUBLIC WORKS BUILDING AND FIRE SAFETY DIVISION

Development Services Center

FIRE SAFETY ENGINEERING SECTION

240 Water Street, P.O. Box 95050, Henderson NV 89009-5050

702-267-3630 FAX 702-267-3603

NFPA 13D & Enhanced NFPA 13D Fire Sprinkler Plan Review Checklist

GENERAL INFORMATION:

1. Plan Reviewer's Name: _____ Date: _____
2. Date of Plan: _____ Last Revision: _____ Date of Revision: _____
3. **NICET Level: I II III IV or P.E.** Name: _____
4. General Comments: _____
5. City of Henderson Residential Fire Sprinkler General Notes: Y N
(Check an answer. Space is provided at the end of each section for written comments and explanations.)

WORKING PLANS:

- 1.1 Name of owner: Y N
- 1.2 Location including street address: Y N
- 1.3 Point of compass: Y N
- 1.4 Building area in square feet (living + garage) used to determine system type: Y N
- 1.5 Full height cross section or sheet number referenced from building permit drawings: Y N
- 1.6 Ceiling/roof heights and slopes not shown in the full height cross section: Y N
- 1.7 Location of partitions, lintels and doorways or sheet no. ref. from bldg. permit drwgs.: Y N
- 1.8 Name and/or room label for each area: Y N
- 1.9 Size, length and type of underground pipe from the supply to the riser: Y N
- 1.10 Pipe sizes and lengths: Y N

- 1.11 Location and size of riser nipples and/or drops: Y N
- 1.12 Type of fittings and joints: Y N
- 1.13 Type and location of hangers: Y N
- 1.14 Location and size of all valves and drains: Y N
- 1.15 Hydraulic data plate information block(s): Y N
- 1.16 Relative elevations shown for hydrants, finished floor, etc.: Y N
- 1.17 Graphic scale provided: Y N
- 1.18 Contractor's information including name, address, phone number and license number(s): Y N
- 1.19 Nevada State Fire Marshal registration number: Y N

COMMENTS / EXPLANATIONS: _____

Flush Multipurpose Systems:

- 2.1 Flush multipurpose system design with supply from the loop to at least one remote toilet: Y N
- 2.2 System is looped both vertically and horizontally: Y N
- 2.3 Minimum domestic demand of 5 gpm added at the point of connection to common piping: Y N
- 2.4 No backflow preventer, water treatment device, or pressure reducing valve in the supply line: Y N
- 2.5 Dead-end supply lines to individual sprinklers do not exceed 50 feet in length: Y N
- 2.6 Pressure gauge installed on the supply side of the check valve: Y N

COMMENTS / EXPLANATIONS: _____

Network Multipurpose Systems:

- 3.1 Network multipurpose system design supplying all cold water domestic fixtures: Y N
- 3.2 Minimum domestic demand of 5 gpm added at the point of domestic demand: Y N
- 3.2 Dead-end supply lines only to domestic fixtures: Y N
- 3.3 WARNING sign provided adjacent to the main shutoff valve with wording per section 6.6.6: Y N
- 3.4 Water treatment device is taken into account hydraulically or automatically bypassed: Y N
- 3.5 Pressure gauge installed on the supply side of the dwelling unit control valve: Y N
- 3.6 If PRV is installed after the control valve, pressure gauge installed on discharge side of PRV: Y N

COMMENTS / EXPLANATIONS: _____

SPRINKLER HEAD SPACING AND INFORMATION:

- 4.1 Material data sheets provided for pipe, sprinklers, valves, etc. as required: Y N
- 4.2 Sprinkler head spacing is acceptable: Y N
- 4.3 Make, type, model, K-factor, temperature rating, and SIN are indicated for each sprinkler: Y N
- 4.4 Sprinkler head counts are correct: Y N
- 4.5 Special listed sprinkler information is shown, for example - extended coverage: N/A Y N
- 4.6 Sprinklers are shown in soffits exceeding more than 8": N/A Y N
- 4.7 Sprinklers are installed in attached garage with living space above: Y N

COMMENTS / EXPLANATIONS: _____

HYDRAULIC CALCULATIONS:

- 6.1 System design criteria, including density & minimum remote area size, is correct: Y N
- 6.2 Remote area selected is acceptable: Y N
- 6.3 Waterflow information used matches witnessed paperwork: Y N
- 6.4 Waterflow information is current - no more than 6 months old: Y N
- 6.5 Minimum 10 psi safety factor is provided in each calculation: Y N
- 6.6 Sprinkler head K-factors match the drawings: Y N
- 6.7 Equivalent K-factor calculations are acceptable: N/A Y N
- 6.8 Minimum required end head flow and pressure are acceptable: Y N
- 6.9 Hydraulic reference nodes match the drawing: Y N
- 6.10 Correct Hazen-Williams "C" values are used: Y N
- 6.11 Elevations match the drawing: Y N
- 6.12 Pipes inside diameters used match the drawing and cut sheets: Y N
- 6.13 Fitting counts match the drawing: Y N
- 6.14 Pipe lengths match the drawing: Y N
- 6.15 Fixed pressure loss devices are properly included: Y N
- 6.16 Maximum velocity does not exceed 32 feet per second: Y N
- 6.17 Additional fixed flow(s) is (are) added at the proper location(s): N/A Y N

COMMENTS / EXPLANATIONS: _____
