



# Nampa Fire Department

**9 12th Ave South, Nampa, Idaho 83651**  
**Phone 208-468-5770 Fax 208-468-5780**

## Fire Sprinkler Hydraulic Design Cover Sheet

Date: \_\_\_\_\_ Owner \_\_\_\_\_  
 Occupancy ID #: \_\_\_\_\_ Occupant \_\_\_\_\_  
 Building: \_\_\_\_\_ Location: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Designer: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Phone \_\_\_\_\_  
 Fax: \_\_\_\_\_ Re-submittal: \_\_\_\_\_  
 System#: \_\_\_\_\_ Remote Area# \_\_\_\_\_

**Project Type:**

New       Tenant Improvement  
 Addition       Other: \_\_\_\_\_

**NFPA 13 System Test Area/Remote:** \_\_\_\_\_

**Construction:**

Unobstructed       Obstructed (If Obstructed, give reference/type in additional information on pg.2)  
 Combustible       Non-Combustible

**System Type:**

Antifreeze     Circulating Closed-Loop     Dry Pipe Preaction       Deluge  
 Dry             Gridded                             Looped                         Preaction  
 Wet

**Hazard:**

Light       Ordinary Grp 1       Ordinary Grp 2       Extra Grp 1  
 Extra Grp 2       Special Design Methods       Rack       Palletized  
 Solid Piled       Bin Boxes       Other: (Specify) \_\_\_\_\_

Figure: \_\_\_\_\_ Curve: \_\_\_\_\_

Area of Sprinkler Operation: \_\_\_\_\_ Density: \_\_\_\_\_

Area Per Sprinkler: \_\_\_\_\_ Hose Allowance: Inside: \_\_\_\_\_ Outside: \_\_\_\_\_

Rack Sprinkler Allowance: \_\_\_\_\_ Sprinkler Make: \_\_\_\_\_

Sprinkler Model: \_\_\_\_\_ Size: \_\_\_\_\_ Type: \_\_\_\_\_ K-Factor: \_\_\_\_\_ Temp: \_\_\_\_\_

**Applying NFPA 13: 7-2.3.2.4 (QR modifier rule apply?)**

No  Yes

Ceiling Height: \_\_\_\_\_ ft. \_\_\_\_\_ in. (Provide all design formulas on the plan submitted)

Roof Slope, in inches: \_\_\_\_\_ in \_\_\_\_\_.

Other Design applications/modifier's that apply NFPA : \_\_\_\_\_

**NFPA 13 Calculation Summary**

Density: \_\_\_\_\_ Area: \_\_\_\_\_ ft/2

Flowing: \_\_\_\_\_ gpm At: \_\_\_\_\_ psi at Base of Riser

Reference/Node: \_\_\_\_\_ with: \_\_\_\_\_ heads operating "C" Factor Used - Underground: \_\_\_\_\_

Overhead: \_\_\_\_\_ Elevation of heads operating from BOR: \_\_\_\_\_

Water Supply Info Attached  Density Curve Attached

**Head Info**

Extended Coverage-Dimension \_\_\_\_\_ X \_\_\_\_\_ Flow \_\_\_\_\_ Starting PSI \_\_\_\_\_

**Commodity Storage**

Commodity: \_\_\_\_\_ Class: \_\_\_\_\_ Location: \_\_\_\_\_

Storage Height: \_\_\_\_\_ Area: \_\_\_\_\_ Aisle Width: \_\_\_\_\_

Storage Method:

Solid Piled \_\_\_\_\_ %  Palletized \_\_\_\_\_ %  Rack \_\_\_\_\_ %

Rack:

Single Row  Double Row  Multiple Row  Conventional Pallet  Plastic Tote

Slave Pallet  Open  Automatic Storage  Solid Shelving

Encapsulated  Non-Encapsulated

Flu Spacing in inches:

Longitudinal: \_\_\_\_\_ Transverse: \_\_\_\_\_ Horizontal Barriers Provided: :  Yes  No

Clearance From Top of Storage to Ceiling: \_\_\_\_\_ ft. \_\_\_\_\_ in.

**Residential Systems**

NFPA  13D  13R  13D Modified

Number of heads operating: \_\_\_\_\_ Elevation from BOR: \_\_\_\_\_ ft. \_\_\_\_\_ in.

Sprinkler Make: \_\_\_\_\_ Starting PSI: \_\_\_\_\_

Model: \_\_\_\_\_

Upright  Pendant Recessed  Pendant Concealed  Pendant

Sidewall  Other: \_\_\_\_\_

Area per sprinkler: \_\_\_\_\_ ft/2 - \_\_\_\_\_ ft. x \_\_\_\_\_ ft. Any vaulted Ceilings:  Yes  No

Installing Backflow:  Yes  No \_\_\_\_\_ Operating through a Meter:  Yes  No

System water supply flows provided at/through the Meter:  Yes  No: Where? \_\_\_\_\_

Size, Pipe type & C-Factor from Tap to Meter: \_\_\_\_\_

Size, Pipe type & C-Factor Meter to Sprinkler "take off": \_\_\_\_\_

Contractor Installing Underground:  Yes  No

**Additional Information and Clarifications:**

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**Note: Attach additional information and clarification as needed**

**Dated: 12/06/2006**  
**beh**