

Calculation results for Design Fire Bonus

This analysis as shown on Watt Fire Protection, company print no. dated 3/26/2020

Fire Class: P-1 5.916 S.W. 67th Pk.

Commodity: none is designed to discharge at a rate of 0.505 gpm/lft (L/min/ft) of area over a maximum area of 512 ft² when supplied with water at a rate of 25.2 gpm at 20.3 psi of the base of the riser.

Occupancy classification: none is included in the above.

System head: 2 feet

Commodity classification: _____ Number type: _____ Wet _____

Maximum storage height: _____ System type: _____

Maximum velocity: _____ 5.74 ft/s

Storage arrangement:

Flow from In-Rack sprinklers: _____ Pressure Required at Source: _____ 26.3 psi

Flow from Overhead sprinklers: _____ 0.2 gpm Pressure Available at Source: _____ 1.1 psi

Flow from Inside Hoses: _____ 0 gpm Surplus Pressure at Source: _____ 24.9 psi

Flow from Outside Hoses: _____ 0 gpm

Other fixed flows: _____ 0 gpm

Total flow in system piping: _____ 26.2 gpm

Additional flow at beyond source: _____ 1.0 gpm

Total of all flows: _____ 26.3 gpm

City Of Portland
REVIEWED FOR
CODE COMPLIANCE
Date: 04/10/23
Project:
22-109151-DFS-01-RS


TALCO FIRE SYSTEMS

RESIDENTIAL AND COMMERCIAL FIRE PUMP SOLUTIONS

6800 WEST 14TH AVE. PORTLAND, OR 97224

503.678.8055 WWW.TALCOFIRE.COM

HOME HYDRANT

NFPA-13D Packaged Residential Fire Pump & Tank

U.S. Patents #6,678,032 & 5,905,069

HH3-150SP

350 Gallon Water Tank

- ① Tank Drain $\frac{1}{2}$ "(GHT)
- ② Overflow Fitting $\frac{1}{2}$ "(FNPT)
- ③ Auto-Fill Valve $\frac{3}{4}$ "(FNPT)

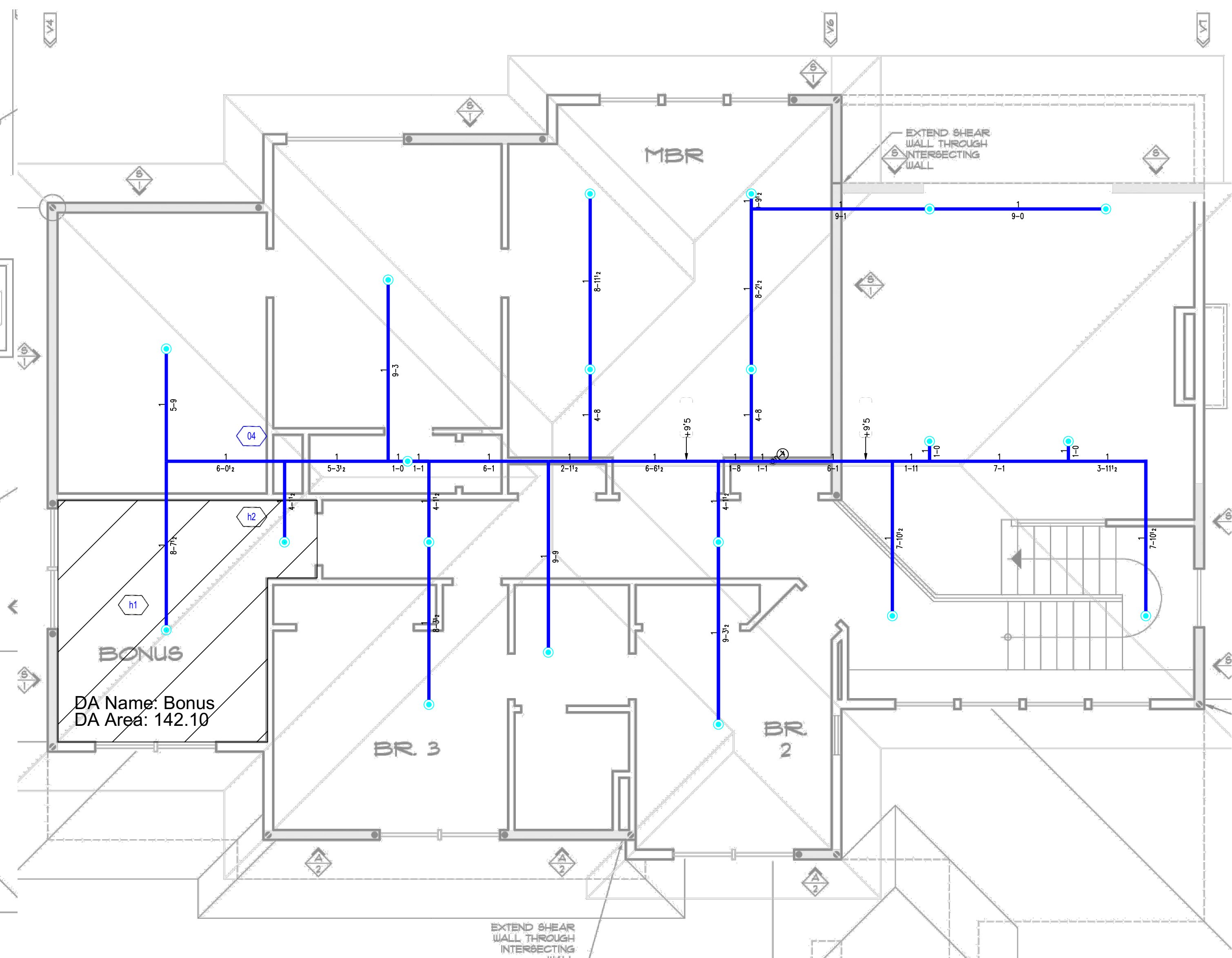
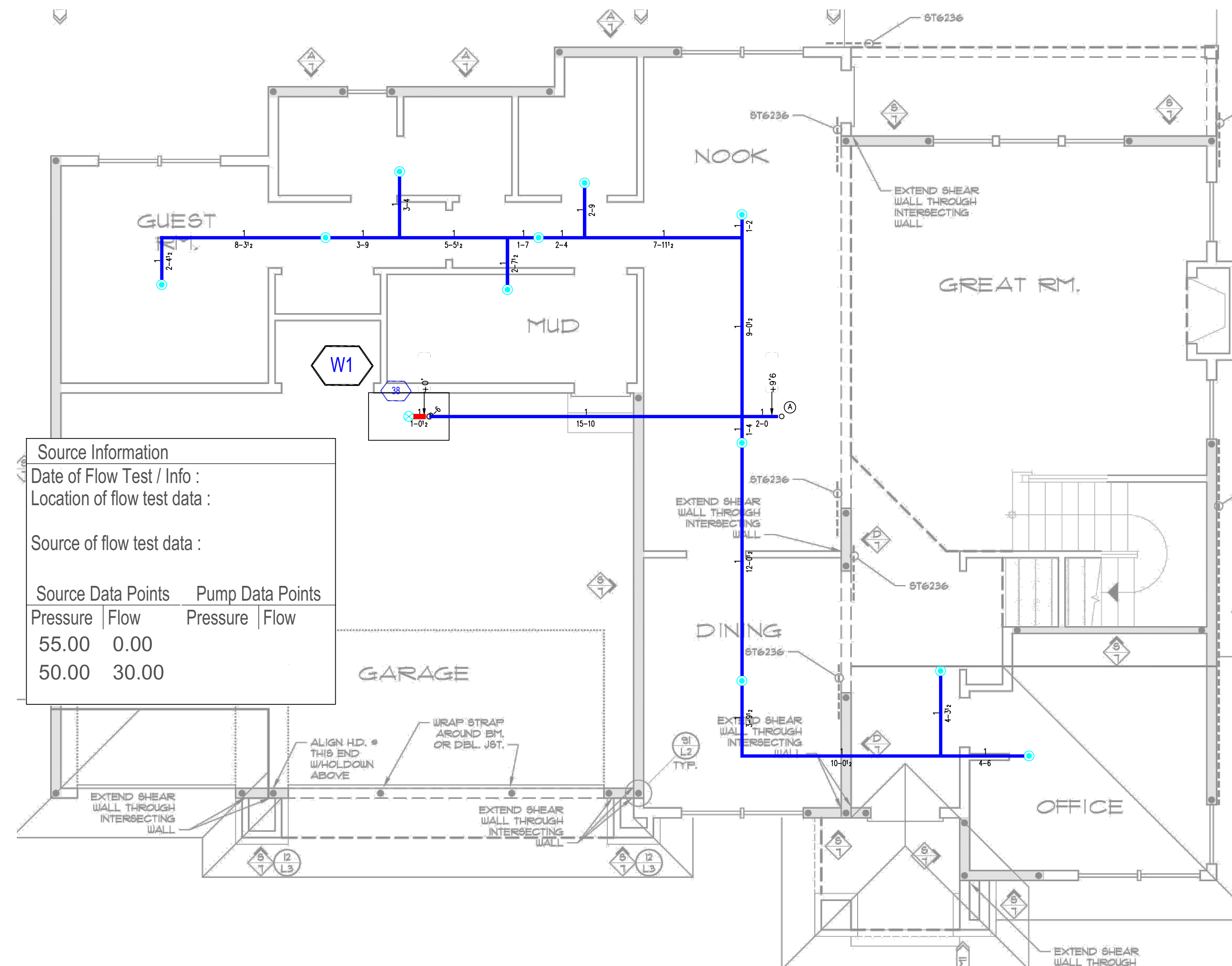
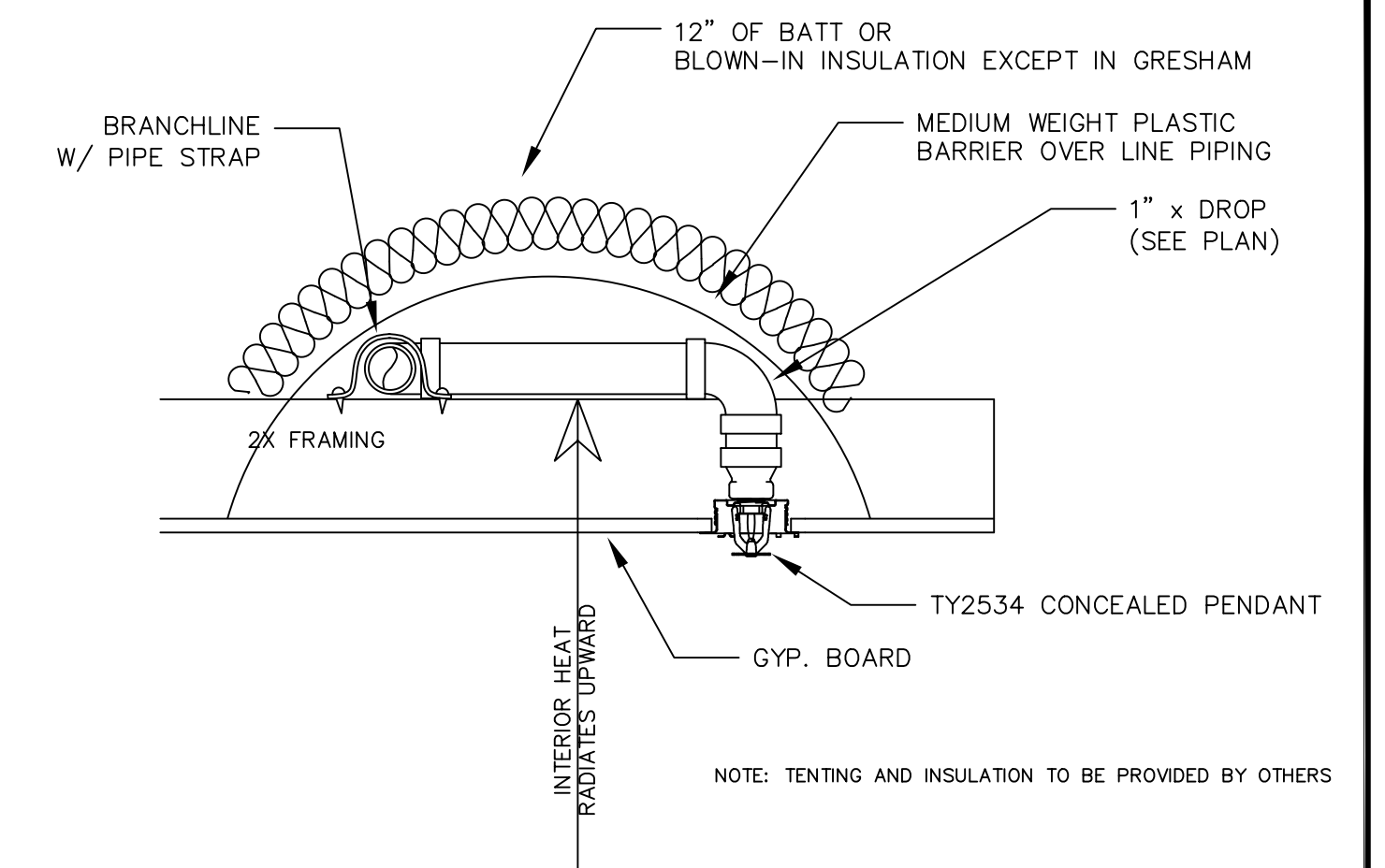
1.5HP Electric Motor
120 Volt, Single-Phase
10.9 Amp (Full Load)

- 1 $\frac{1}{2}$ " Discharge (FNPT)
- Smart Rise Control System
- ④ Isolation Ball Valve
- ⑤ Test Line/System Drain
- ⑥ Pressure Gauge
- ⑦ Flow Switch (Optional)
- ⑧ Pressure Switch
- ⑨ Run-Time Controller
- ⑩ Discharge Check Valve
- ⑪ Suction Shut-off Valve

Performance

Performance when tested on certified pump test facility. See certification for details.

GPM	0	20	25	30	35	40	45	50
PSI	55	52	51	50	48	46	43	40



HANGER AND INSULATION DETAIL
NOT TO SCALE

FL 1 REFLECTED CEILING PLAN

FL 2 REFLECTED CEILING PLAN

[illegible]