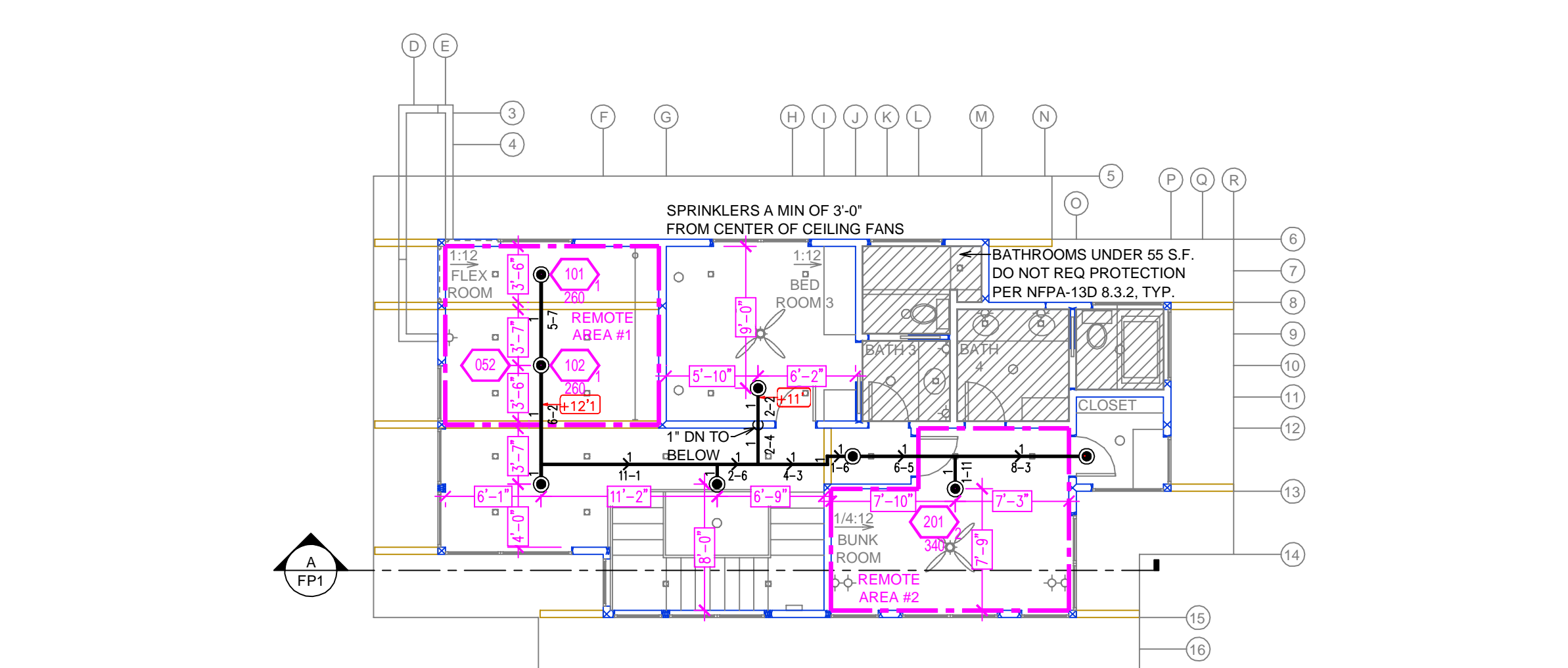


MAIN FLOOR FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



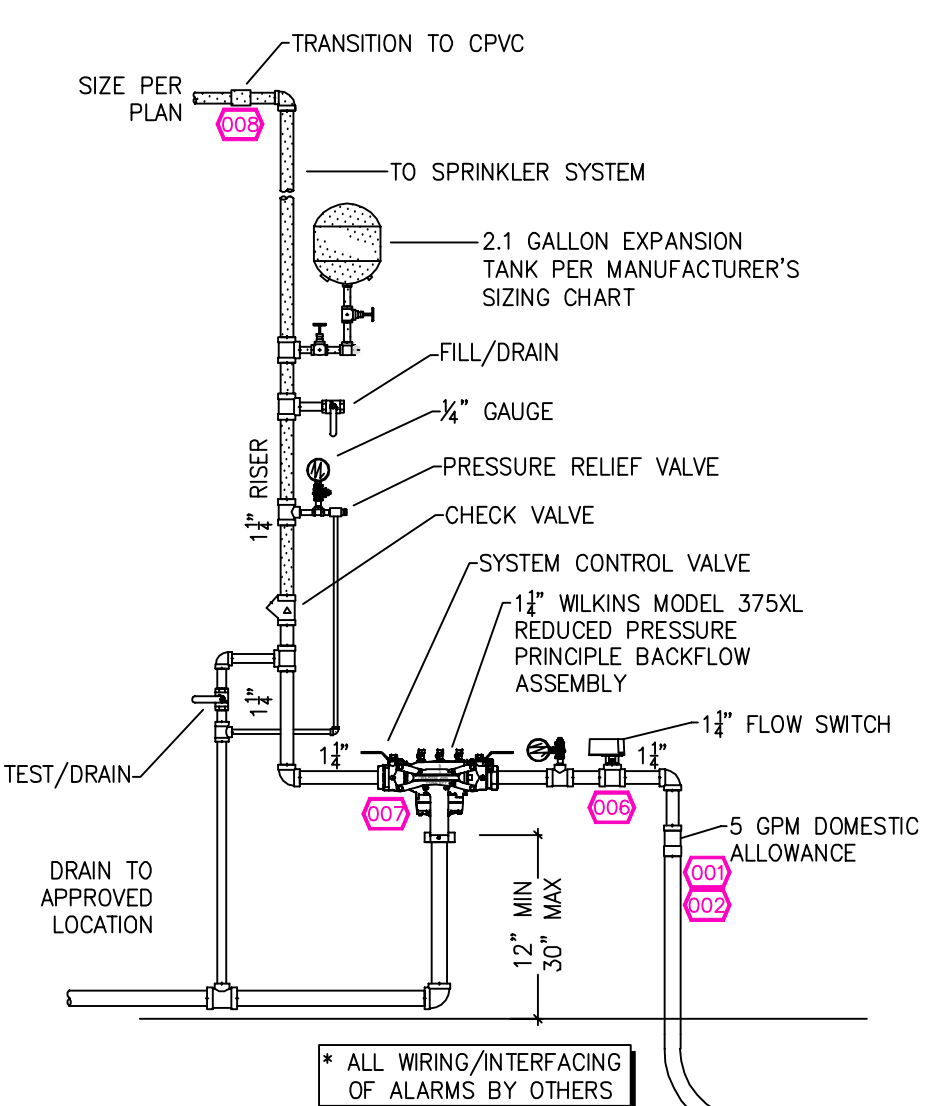
UPPER FLOOR FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

NFPA 13 - Table 9.2.2.1(a) Maximum Distance Between Hangers (ft-in.)

Pipe	Nominal Pipe Size (in.)								
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
Steel Pipe except threaded	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
Threaded lightwall steel pipe	N/A	12-0	12-0	15-0	15-0	15-0	N/A	N/A	N/A
Copper tube	8-0	8-0	10-0	10-0	12-0	12-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

NO SPRINKLERS REQUIRED IN:
BATHROOMS 55 SQ. FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.2
CLOSETS 24 SQ. FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.3

PROJECT SQUARE FOOTAGES
MAIN LEVEL = 2,332 S.F.
UPPER LEVEL = 825 S.F.



1 RISER DETAIL
SCALE: 1/2" = 1'-0"

SUBMITTAL

SPRINKLER SPACING

- A SINGLE PENDENT SPRINKLERS MAY BE SPACED AT A MAXIMUM OF 18'x18' (324 SQ. FT.) OR UP TO 9' OFF A WALL (MINIMUM 8'-0" BETWEEN SPRINKLERS)
- TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 16'x16' (256 SQ. FT.) OR UP TO 8' OFF A WALL (MINIMUM 8'-0" BETWEEN SPRINKLERS)
- SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILINGS.

THIS FIRE SPRINKLER SYSTEM UTILIZES THE TYCO LFP ANTI-FREEZE SOLUTION

SPRINKLER HEAT ZONES:

HEAT SOURCE:	ORDINARY TEMP. SPRINKLER	INTERMEDIATE TEMP. SPRINKLER
SIDE OF OPEN OR RECESSED FIRE PLACE	36"	12"
FRONT OF RECESSED FIRE PLACE	60"	36"
COAL OR WOOD BURNING STOVE	42"	12"
RANGE/OVEN, HOT AIR FLUES & UNINSULATED HEAT DUCT	18"	9"
UNINSULATED HOT WATER PIPES & 250-499 WATT LIGHTS	12"	6"
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER, FURNACE, LIGHT FIXTURE 0-250 WATT	6"	3"

PROJECT SUMMARY:

PROJECT NAME: **BARNARD RESIDENCE**
PROJECT ADDRESS: **11630 BOTTCHEER LOOP, TRUCKEE, CA 96161**
APN: **019-840-017**

PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: **V-B**

OCCUPANCY GROUP(S): **R3**
OCCUPIED LEVELS: **2**

TOTAL SPRINKLERED AREA: **4,209** SQ. FT.
NFPA CODE REQUIREMENT: NFPA 13 NFPA 13R NFPA 13D

NUMBER OF SYSTEMS: **1**
SYSTEM TYPE(S): WET ANTI-FREEZE DRY PREACTION

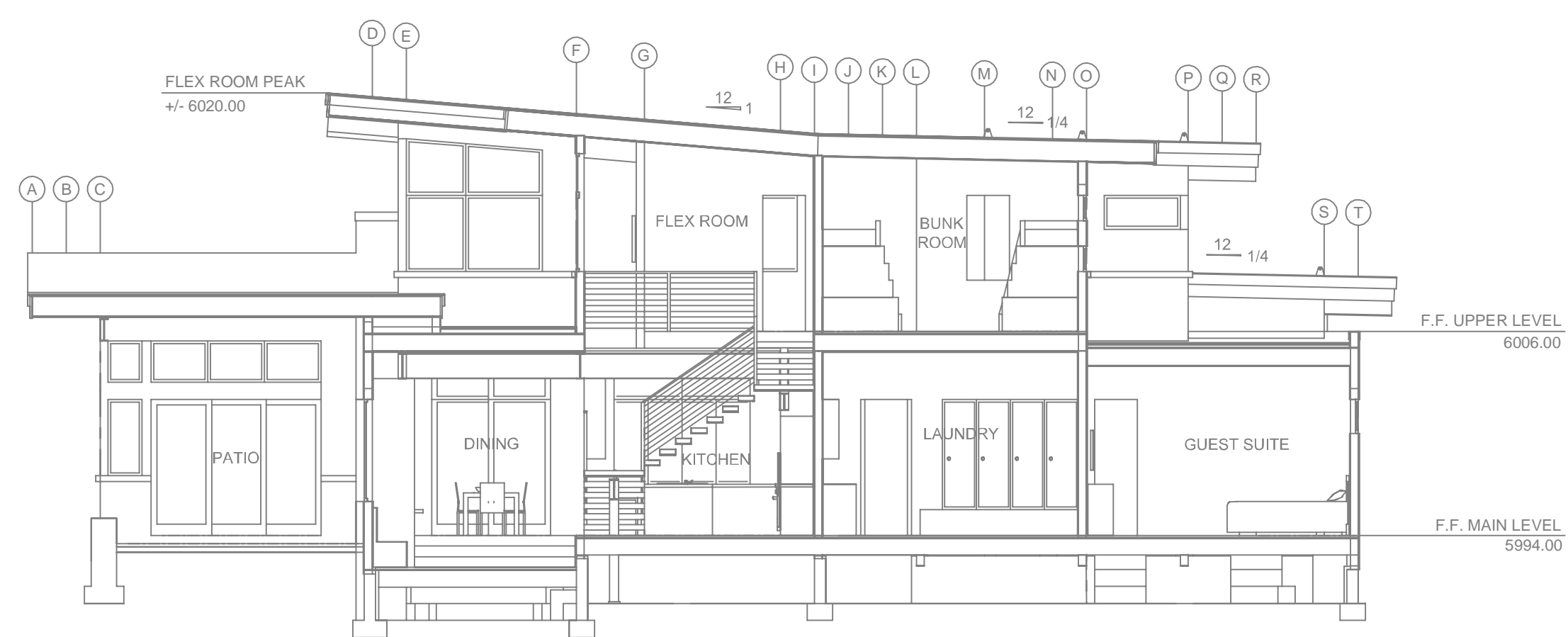
TOTAL SPRINKLERS: **48**
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

REMOTE AREA 1
Hydraulically Calculated System

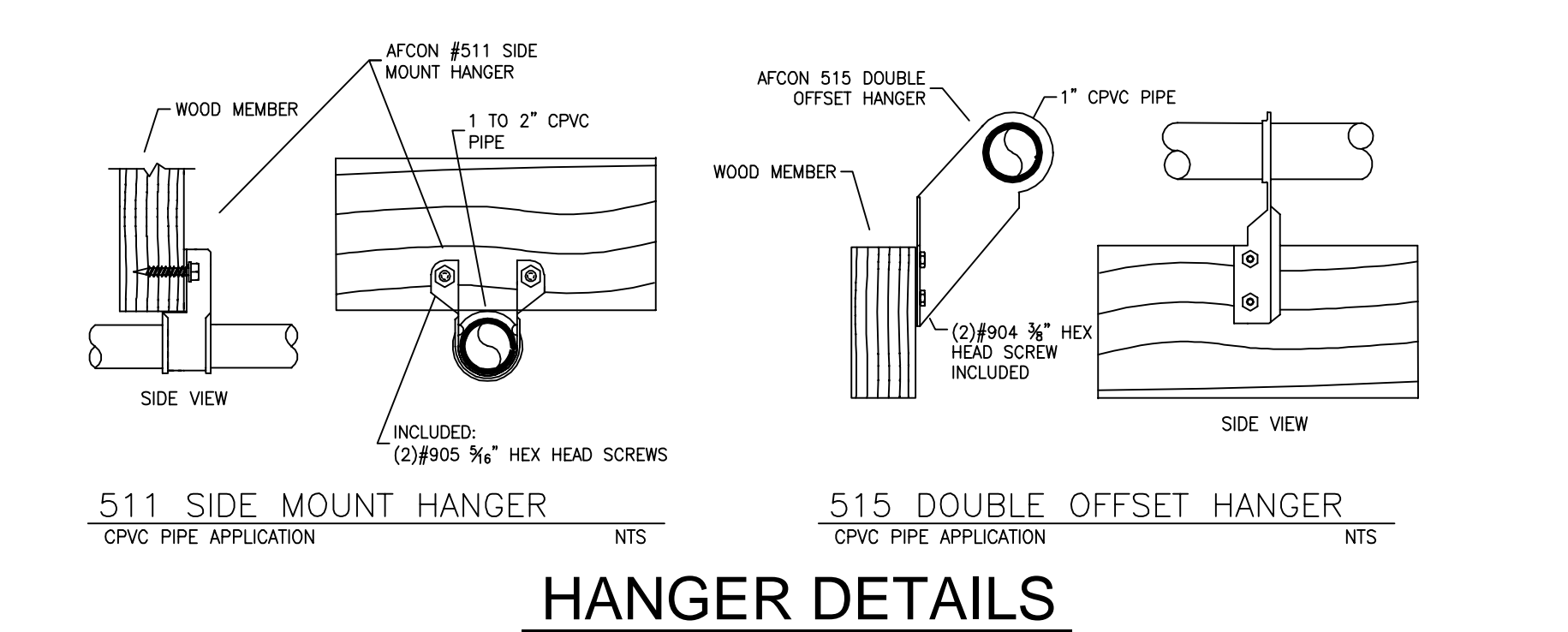
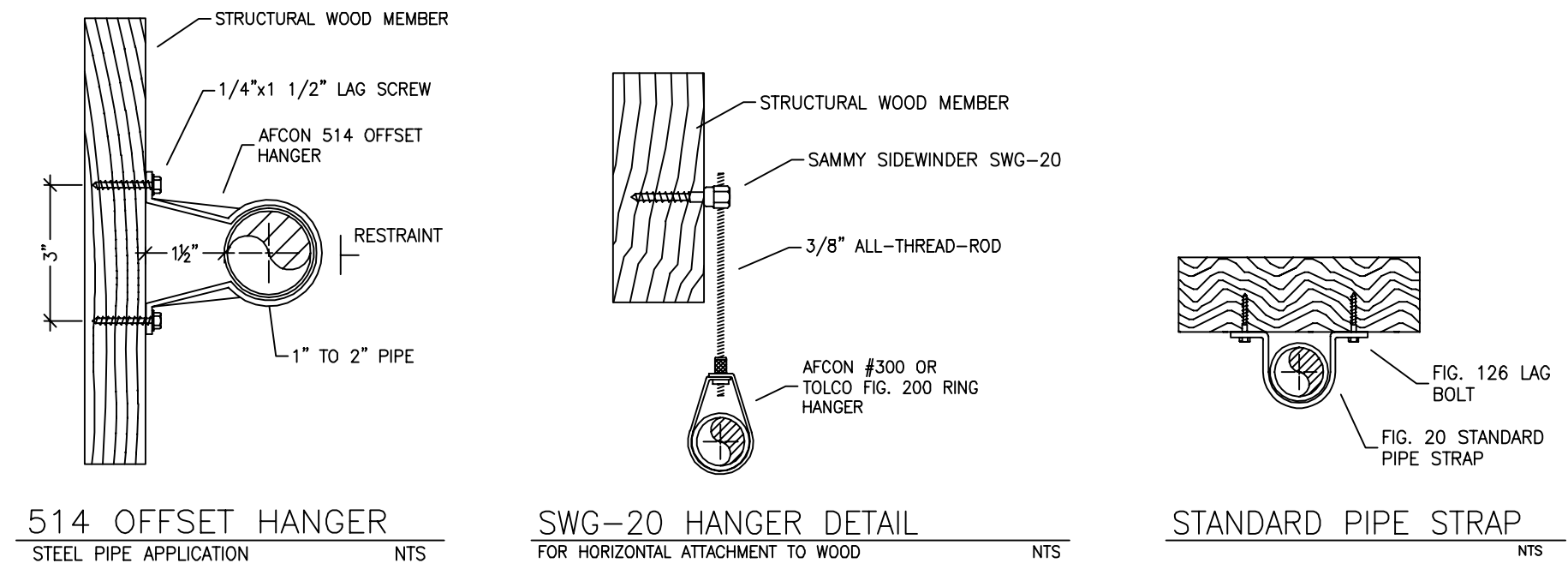
This system as shown on: Fire Protection Plan
company print no. FP1 dated 1/3/2024
for BARNARD RESIDENCE
at FLEX ROOM contract no. _____
is designed to discharge at a rate of 0.05 gpm (l/min) per sq ft (m²) of floor area over a maximum area of 13.2 sq ft (m²) when supplied with water at the rate of 31.2 gpm (l/min) at 58.4 psi (bars) at the base of the riser.
Hose stream allowance of 5 gpm (l/min) is included in the above.
Occupancy classification: 130 LIGHT HAZARD
Commodity classification: N/A
Maximum storage height: N/A
Safety factor: 7.0

REMOTE AREA 2
Hydraulically Calculated System

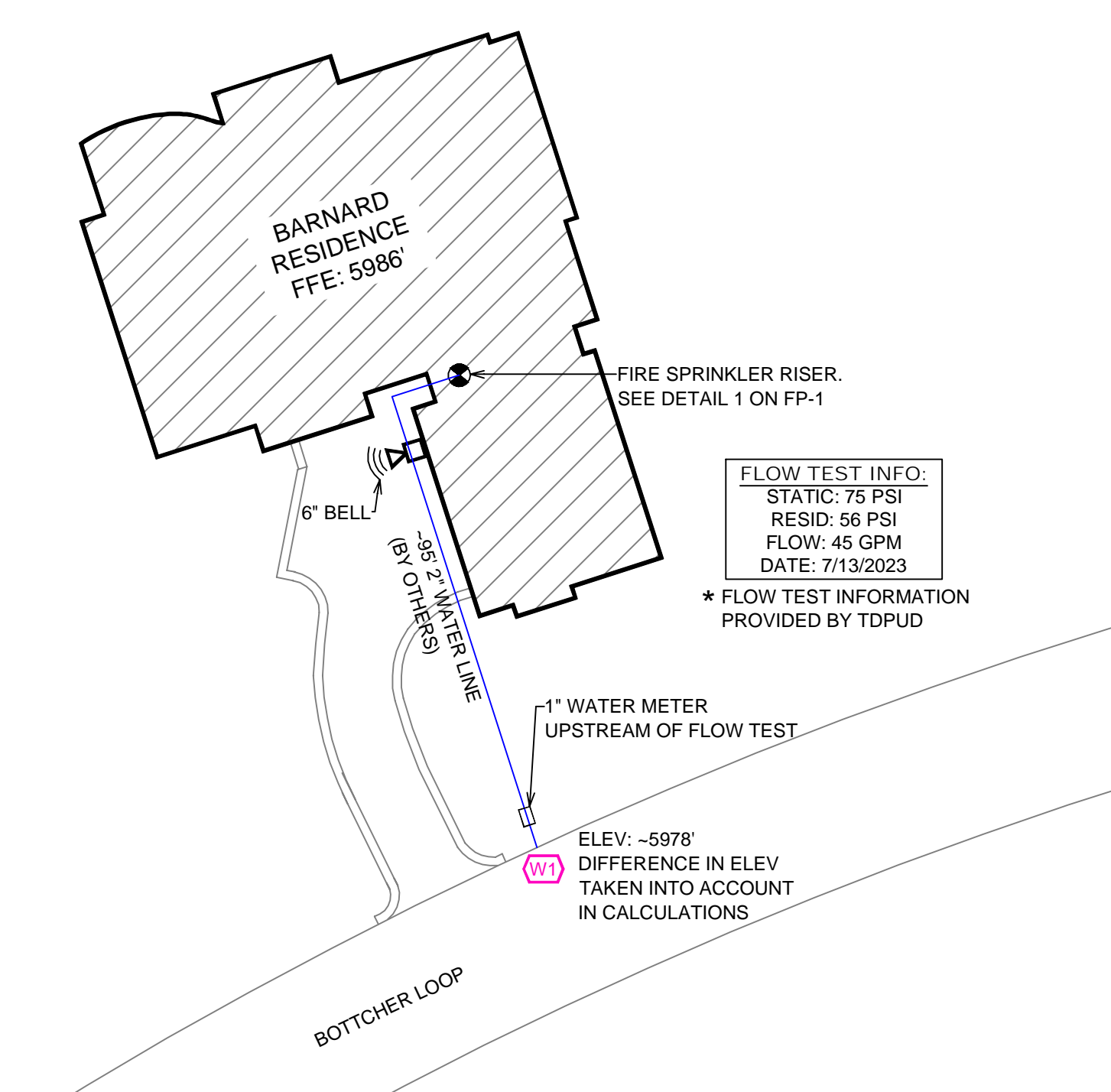
This system as shown on: Fire Protection Plan
company print no. FP1 dated 1/3/2024
for BARNARD RESIDENCE
at BUNK ROOM contract no. _____
is designed to discharge at a rate of 0.05 gpm (l/min) per sq ft (m²) of floor area over a maximum area of 22.0 sq ft (m²) when supplied with water at the rate of 22.0 gpm (l/min) at 58.4 psi (bars) at the base of the riser.
Hose stream allowance of 5 gpm (l/min) is included in the above.
Occupancy classification: 130 LIGHT HAZARD
Commodity classification: N/A
Maximum storage height: N/A
Safety factor: 18.0



A BUILDING SECTION
SCALE: 1/8" = 1'-0"



HANGER DETAILS



FLOW TEST INFO:
STATIC: 75 PSI
RESID: 56 PSI
FLOW: 45 GPM
DATE: 7/13/2023

* FLOW TEST INFORMATION PROVIDED BY TDPUD

ELEV. -5978' DIFFERENCE IN ELEV TAKEN INTO ACCOUNT IN CALCULATIONS

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: _____ AUTHORITY HAVING JURISDICTION: _____
ADDRESS: _____ TOWN OF TRUCKEE BUILDING DIVISION
CITY: TRUCKEE, CA 96161
PHONE: _____ CONTACT: _____
ARCHITECT: _____ FIELD INSPECTIONS: _____
ADDRESS: _____
CITY: _____
PHONE: _____

FIRE SPRINKLER NOTES:

- THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D.
- THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.
- THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS.
- ALL SPRINKLER PIPING CONCEALED ABOVE CEILINGS SHALL BE CPVC PIPING UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.
- ALL HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13D AND/OR NFPA 13 REQUIREMENTS.
- HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING.
- ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.
- THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING A MINIMUM TEMPERATURE OF 40° FAHRENHEIT TO PROTECT FROM FREEZING. THE SECTIONS OF THE SPRINKLER SYSTEM WHERE THERE IS NO ANTI-FREEZE IN THE PIPING (UPSTREAM OF THE RISER).

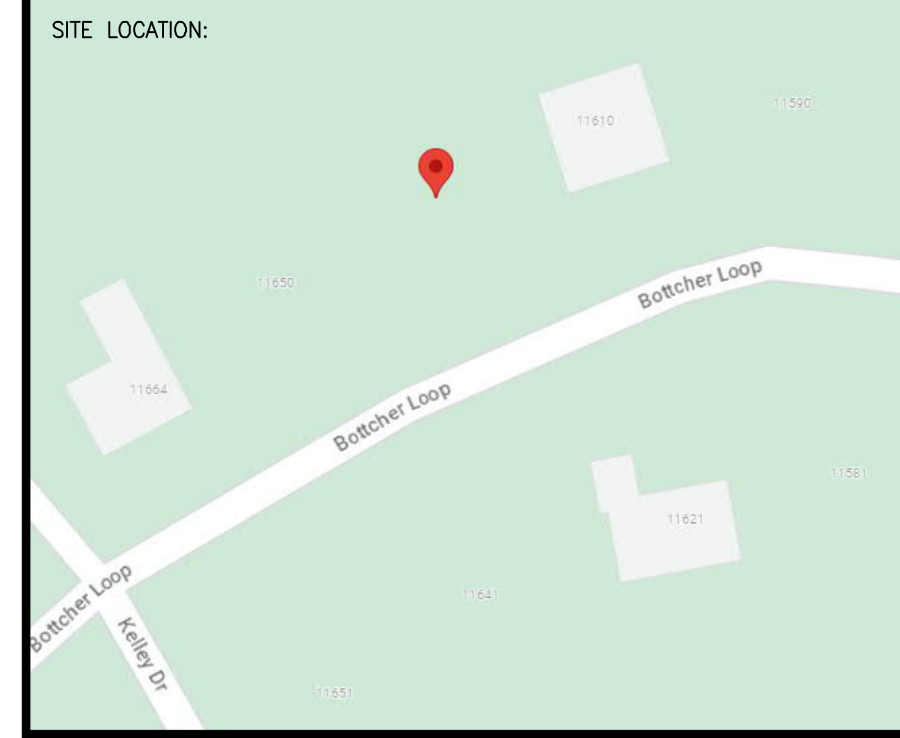
SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	S.I.N.
⊗	38	CONCEALED	SEN/J	RC-RES	1/2"	4.9	152	WHITE	SS444
⊗	1	CONCEALED	SEN/J	RC-RES	1/2"	4.9	205	WHITE	SS444
⊗	9	SEM-RECESS	SEN/J	FR-RES	1/2"	4.9	205	WHITE	SS4451

48 TOTAL SPRINKLERS ON THIS SHEET

FIRE SPRINKLER SYMBOLS

⊗	AUTOMATIC SPRINKLER RISER	+13" ELEV. BELOW DECK OR TOS
⊕	EARTHQUAKE BRACING	+12'-9" ELEV. ABOVE FINISHED FLOOR
+	2-WAY & 4-WAY	CHANGE ELEVATION UP
+	PIPE HANGER & TYPE DESIGNATION	CHANGE ELEVATION DN
⊕	HYDRAULIC REF PT	INSPECTORS TEST
+	GRID OR THRD CAP	AUX DRAIN
+	GRID COUPLING	REVISION NOTATION
⊕	TYPICAL POINT OF CONNECTION (POC)	LOCAL ALARM



PROJECT NAME: FIRE SPRINKLER PLANS FOR
BARNARD RESIDENCE
11630 BOTTCHEER LOOP
TRUCKEE, CA 96161

STAMP: _____

DRAWING TITLE: **FIRE SPRINKLER PLAN**

SCALE: 1/8" = 1'-0" JOB NO.: _____
DRAWN BY: _____ DWG NO.: _____
BORN ON DATE: 1/4/2024 SHEET 1 OF 1
FILE: _____

SITE PLAN
SCALE: 1" = 25'-0"