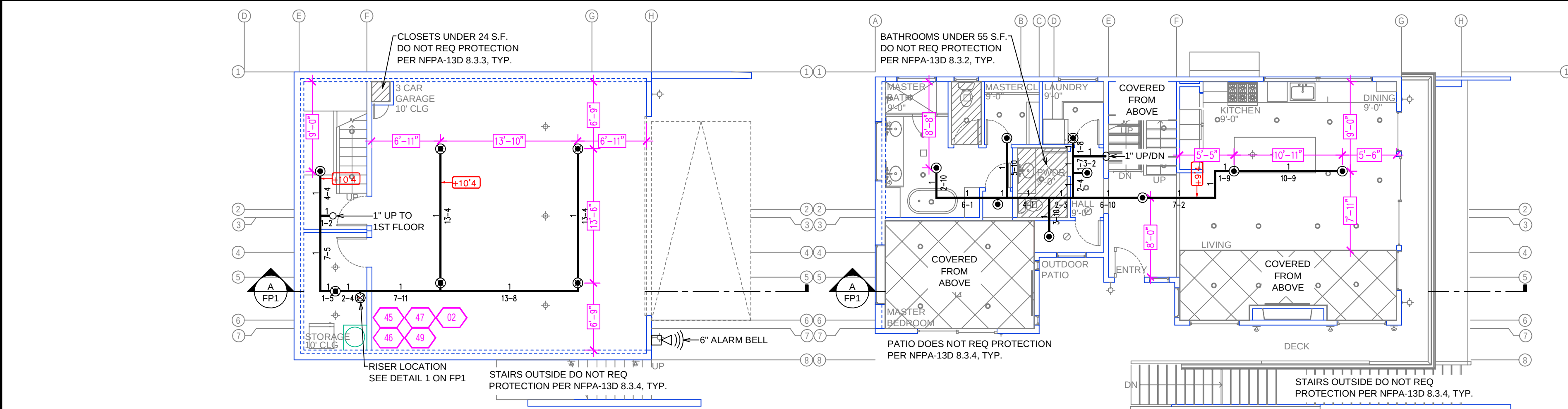
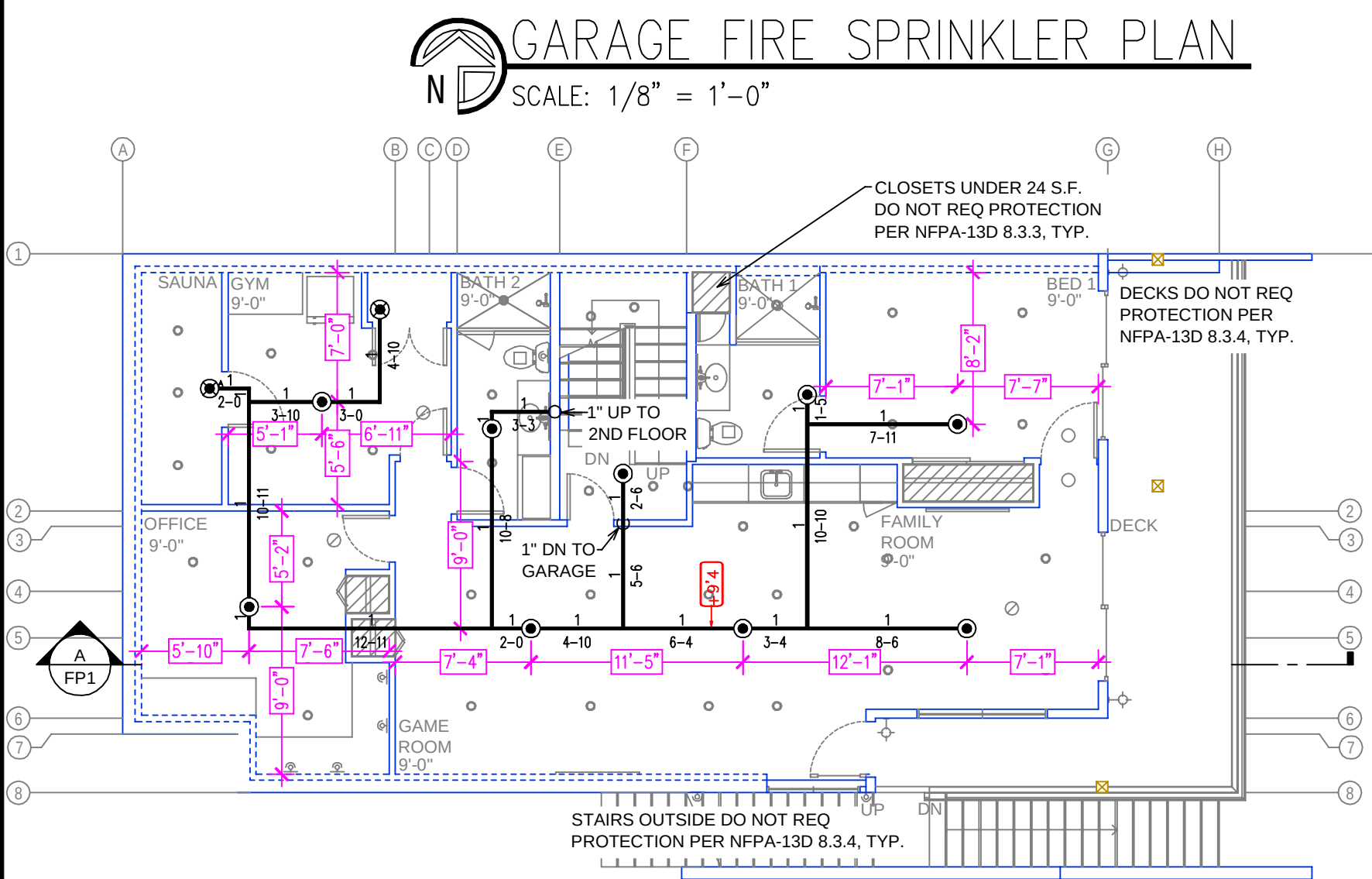
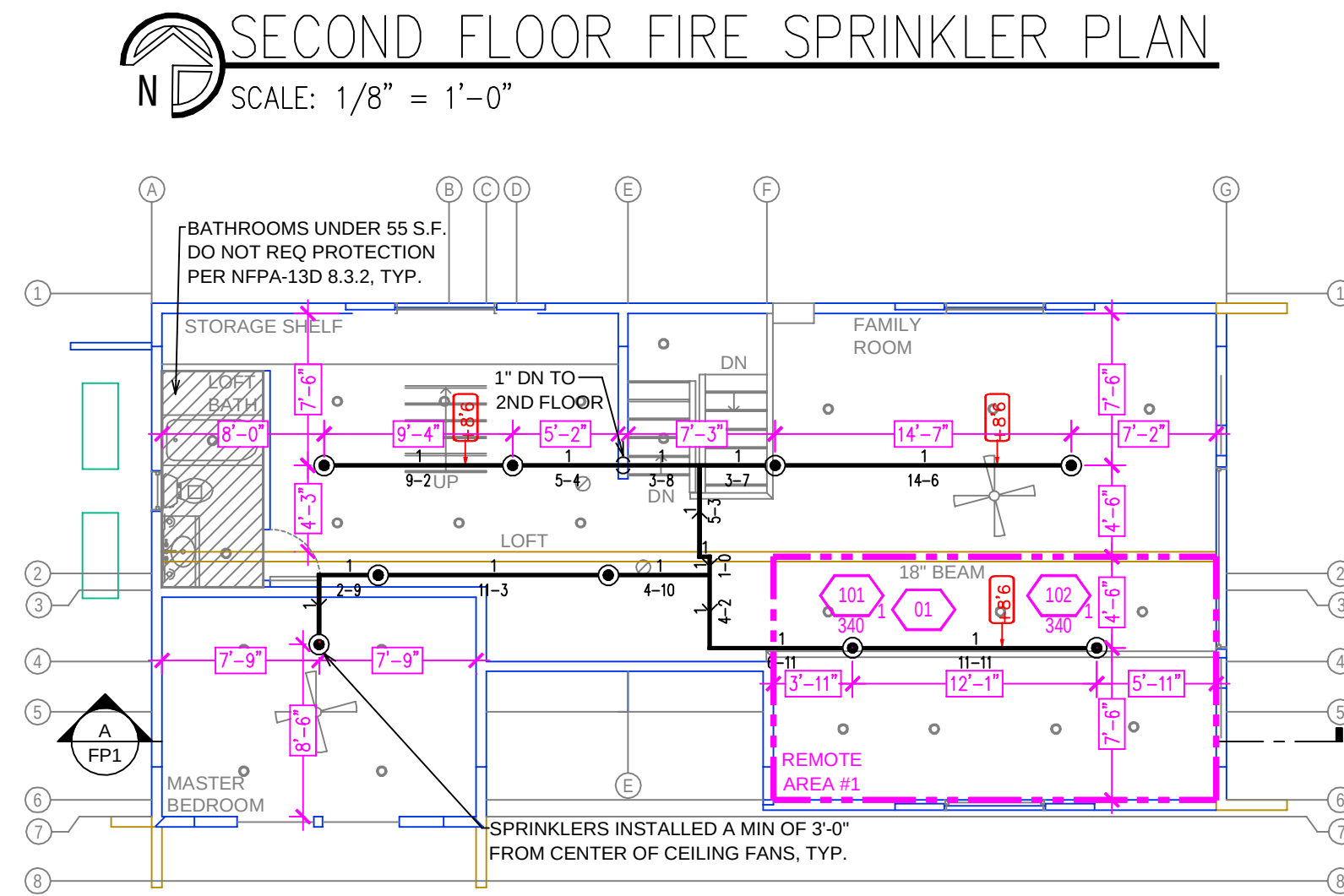


PROJECT SUMMARY:

PROJECT NAME: GRANT RESIDENCE
PROJECT ADDRESS: 317 JOHN MUIR RD, MAMMOTH LAKES, CA 93546
APN: 031-053-009-000
PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: V
OCCUPANCY GROUP(S): R3
OCCUPIED LEVELS: 4
TOTAL SPRINKLERED AREA: 4678 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: 35
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

SPRINKLER SPACING

- A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 18'X18' (324SQ. 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 18'X18' (324SQ. FT.) OR UP TO 9' 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 NOBLE COMPANY FIREFIGHTER ELIMINATOR ANTI-FREEZE SOLUTION

SUBMITTAL

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

GARAGE FLOOR = 1044 SF
FIRST FLOOR = 1467 SF
SECOND FLOOR = 1263 SF
LOFT FLOOR = 904 SF

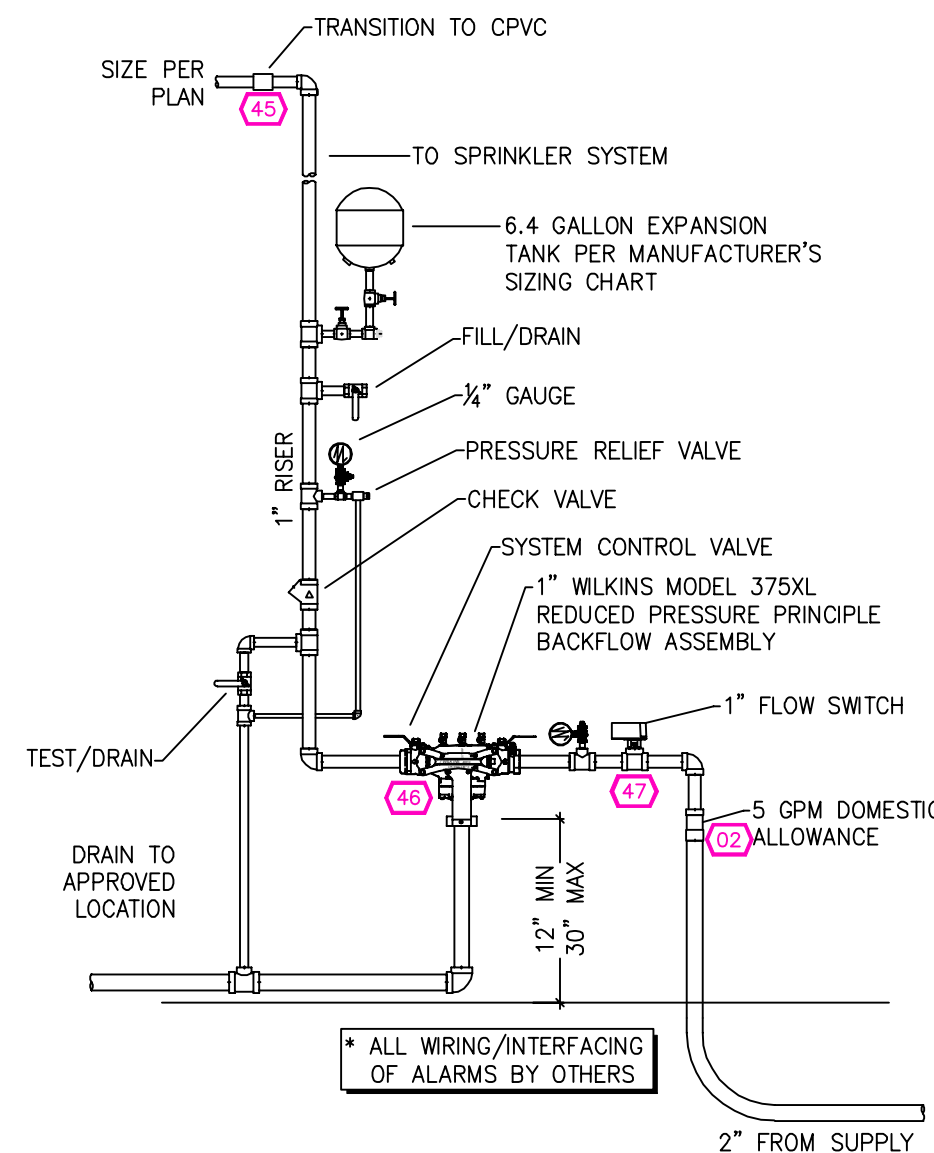
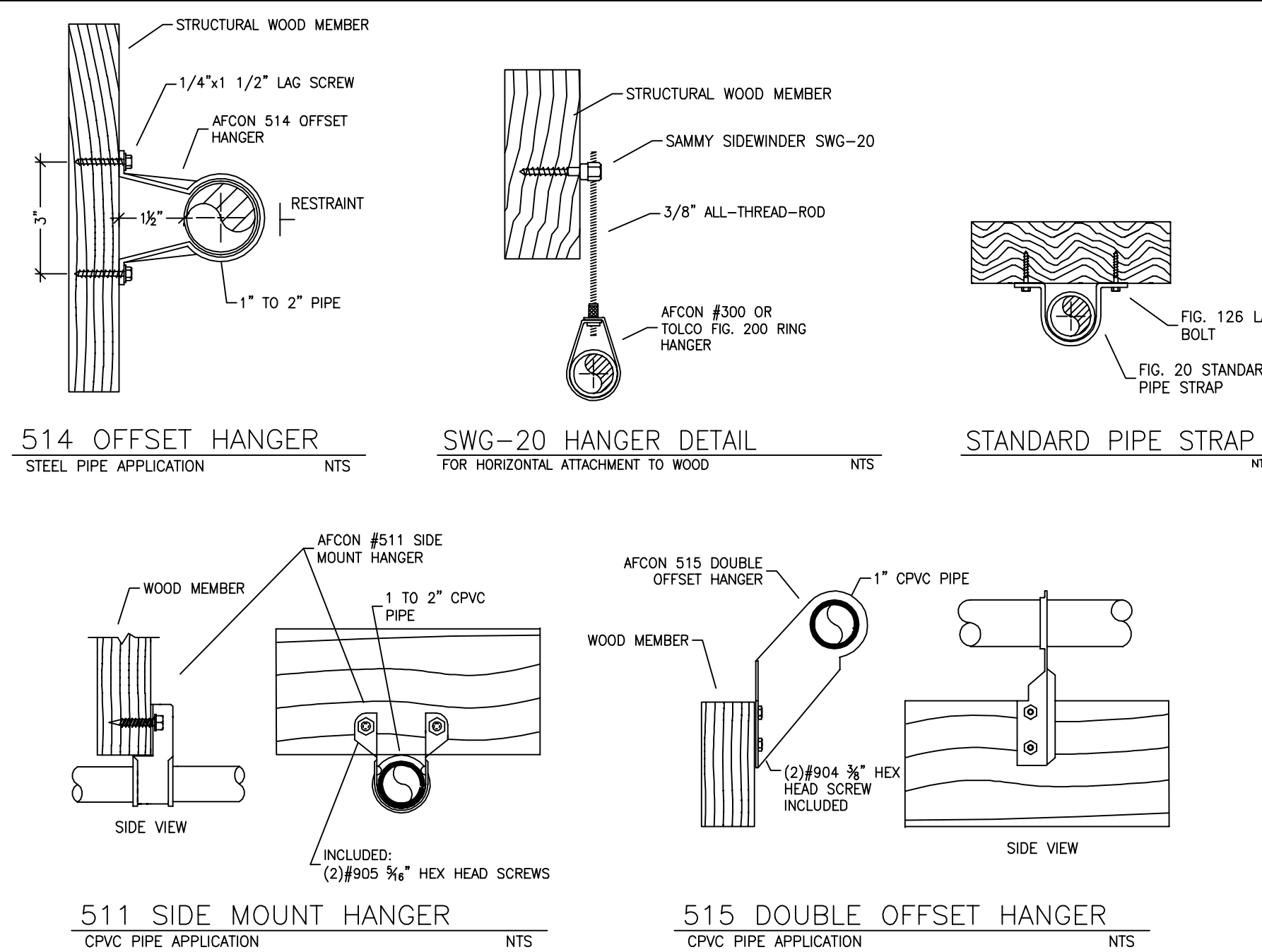
PIPE VOLUMES:
(CPVC)

TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 369' (18.25 GAL)

ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
TOTAL VOLUME: ±18.25 GALLONS

NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)

Nominal Pipe Diameter (in.)	Pipe Schedule 40 Schedule 10 (gal)	CPVC
1	0.045	0.049
1 1/4	0.070	0.085
1 1/2	0.106	0.115
2	0.174	0.190
2 1/2	0.248	0.283



REMOTE AREA 1

Hydraulically Calculated System

This system as shown on Fire Protection Plan, company print no. ZP1 dated 9/9/2026 for GRANT RESIDENCE 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 NFPA 13D - 2 SPRINKLERS sq ft (m²) when supplied with water at the rate of 39.4 gpm (L/min) at 92.7 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 HOARD
Commodity classification: NA
Maximum storage height: NA
Safety factor: 31.3

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

Nominal Pipe Size (in.)	Nominal Pipe Size (in.)															
	1/2	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20
Steel Pipe except threaded	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
lightwall	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	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	15-0	15-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper tube	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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"

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: MAMMOTH LAKES FIRE PROTECTION DIVISION
ADDRESS: 3150 MAIN STREET
CITY: MAMMOTH LAKES, CA 93546
PHONE: 760-934-2300
CONTACT:

ARCHITECT: FIELD INSPECTIONS:
1.
2.
3.
4.

FIRE SPRINKLER NOTES:

- THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D 2022 PIPING UNLESS OTHERWISE NOTED.
- 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.
- 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).

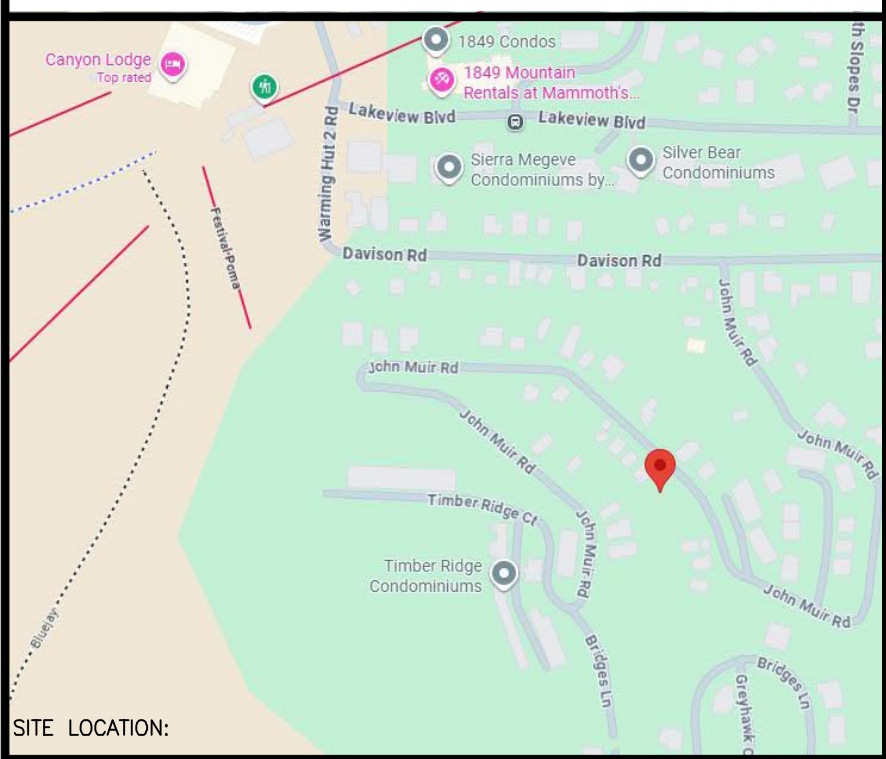
SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	S.I.N.
⊗	27	CONCEALED	SEN/J	RC-RES	1/2"	4.9	162	WHITE	SS8464
⊗	1	CONCEALED	SEN/J	RC-RES	1/2"	4.9	205	WHITE	SS8464
⊗	6	SEM-RECESS	SEN/J	FR-RES	1/2"	4.9	205	WHITE	SS4451
⊗	1	SEM-RECESS	SEN/J	FR-OR	1/2"	5.6	286	WHITE	SS2551

35 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
⊕	GRVD OR THRD CAP	AUX DRAIN
⊕	GRVD COUPLING	REVISION NOTATION
⊕	TYPICAL POINT OF CONNECTION (POC)	LOCAL ALARM



PROJECT NAME: FIRE SPRINKLER PLANS FOR GRANT RESIDENCE
ADDRESS: 317 JOHN MUIR ROAD MAMMOTH LAKES, CA 93546

STAMP:

DRAWING TITLE: FIRE SPRINKLER PLAN

SCALE: 1/8"=1'-0" JOB NO.: 26-6055
DRAWN BY: DWG NO.:
BORN ON DATE: 9/10/2026
FILE: 9/10/2026

FP-1

SHEET 1 OF 1

