

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

Pipe	Nominal Pipe Size (in.)								
	1/2	3/4	1	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	N/A	12-0	12-0	15-0	15-0	15-0	15-0	N/A	N/A
Threaded lightwall steel	N/A	12-0	12-0	15-0	15-0	15-0	15-0	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

SPRINKLER HEAT ZONES:

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

PIPE VOLUMES:
(CPVC)

TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 640' (31.65 GAL)
1 1/2" = 12" (0.95 GAL)

ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
TOTAL VOLUME: ± 35.86 GALLONS

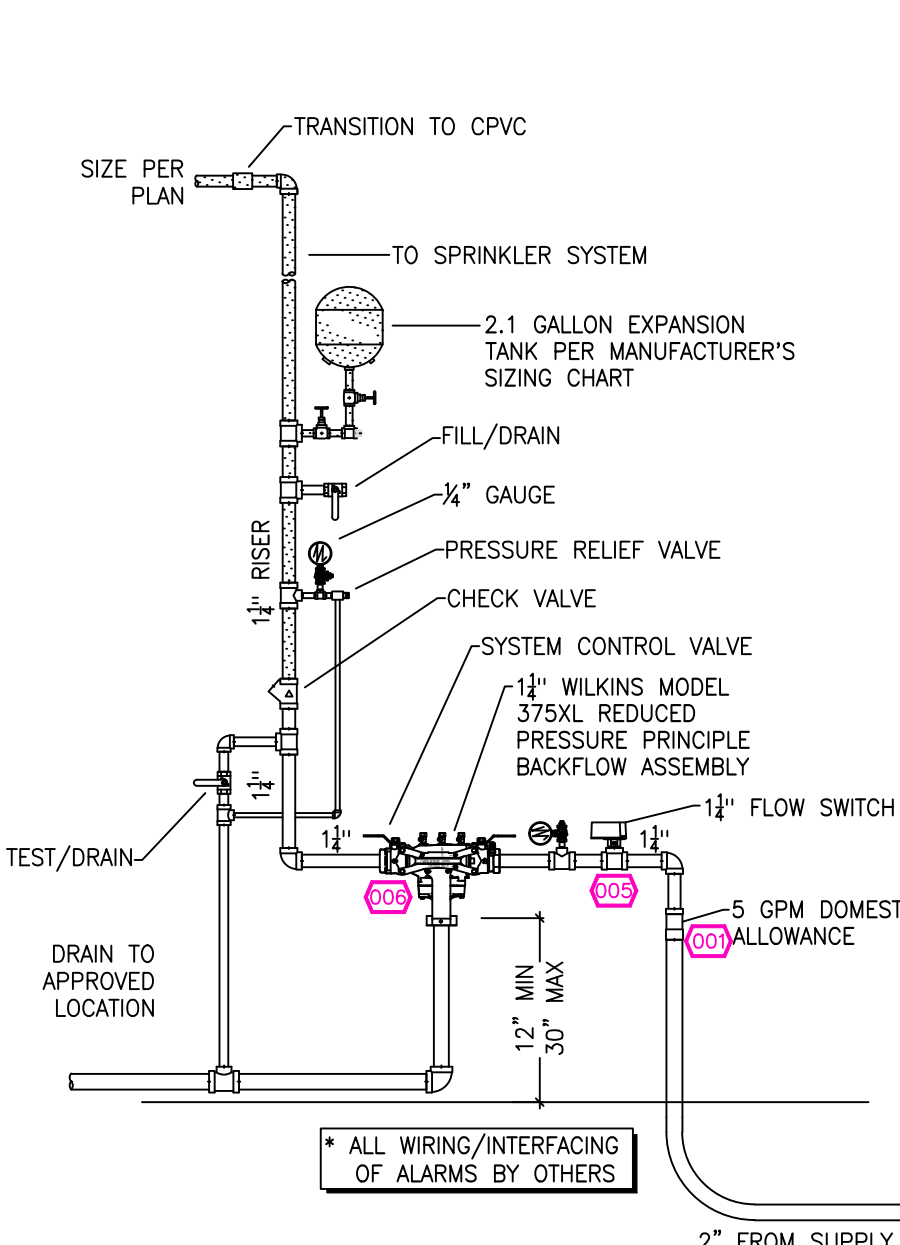
NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)

Nominal Pipe Diameter (in.)	Pipe Schedule 40 Schedule 10		CPVC
	Schedule 40	Schedule 10	
1	0.045	0.049	0.049
1 1/2	0.078	0.085	0.079
2	0.106	0.115	0.104
2 1/2	0.174	0.180	0.160
3	0.248	0.263	0.248

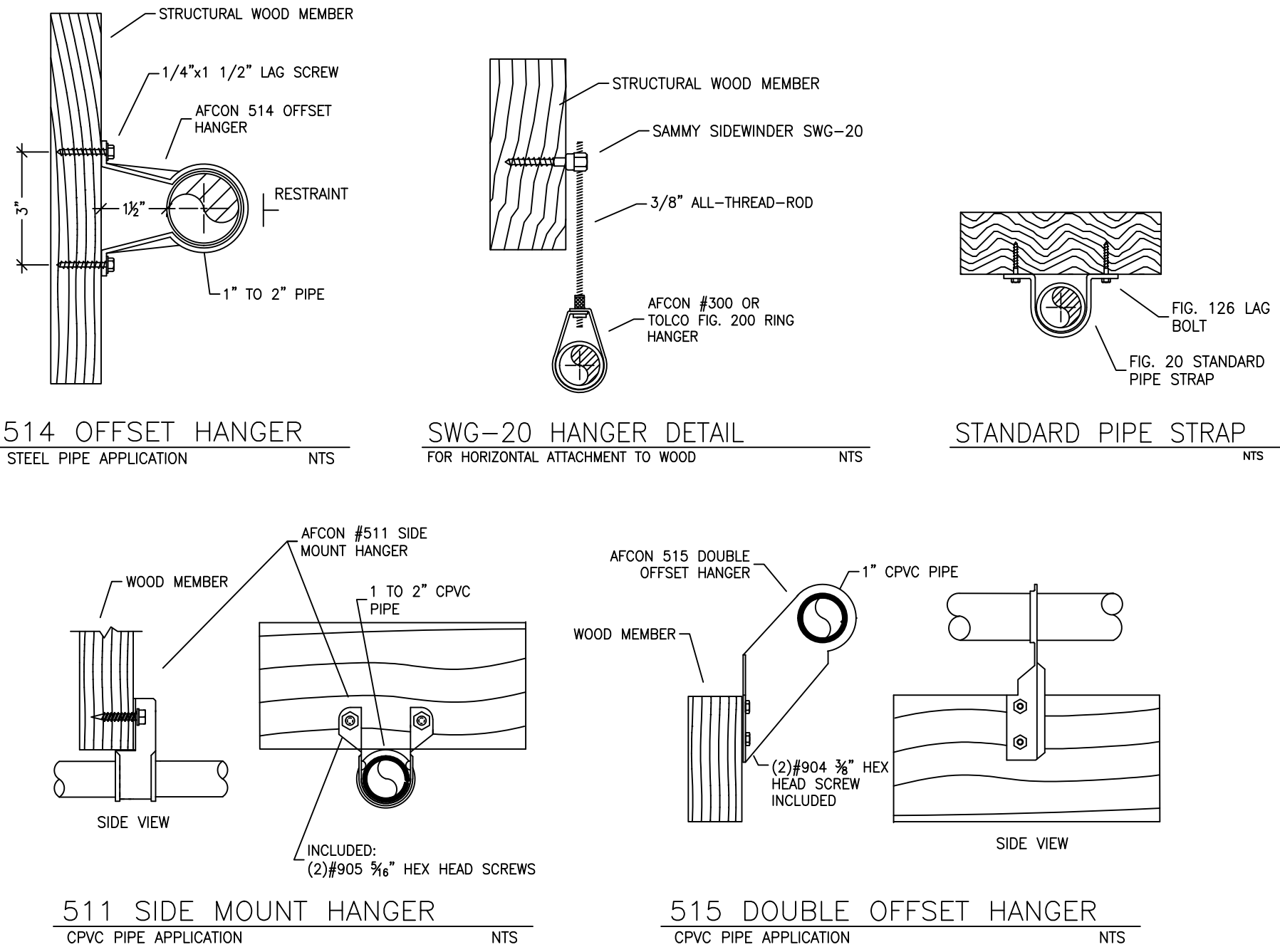
SPRINKLER SPACING

- A SINGLE PENDENT SPRINKLER 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 CEILING.

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



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



HANGER DETAILS

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
LOWER LEVEL = 5497 S.F.
MAIN LEVEL = 1799 S.F.

PROJECT SUMMARY:

PROJECT NAME: RENAUDIN RESIDENCE
PROJECT ADDRESS: MARTIS CAMP LOT 126, TRUCKEE, CA 106-080-009
APN: 106-080-009
PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: V
OCCUPANCY GROUP(S): R3
OCCUPIED LEVELS: 2
TOTAL SPRINKLERED AREA: 7296 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: 62
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
TOWN OF TRUCKEE BUILDING DIVISION
ADDRESS: 10183 TRUCKEE AIRPORT RD ADDRESS: 10183 TRUCKEE AIRPORT RD
CITY: TRUCKEE, CA 96161 CITY: TRUCKEE, CA 96161
PHONE: 530-582-7820 PHONE: 530-582-7820
CONTACT: CONTACT:

ARCHITECT: FIELD INSPECTIONS:
1.
ADDRESS: 2.
CITY: 3.
PHONE: 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 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 CEILING 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).

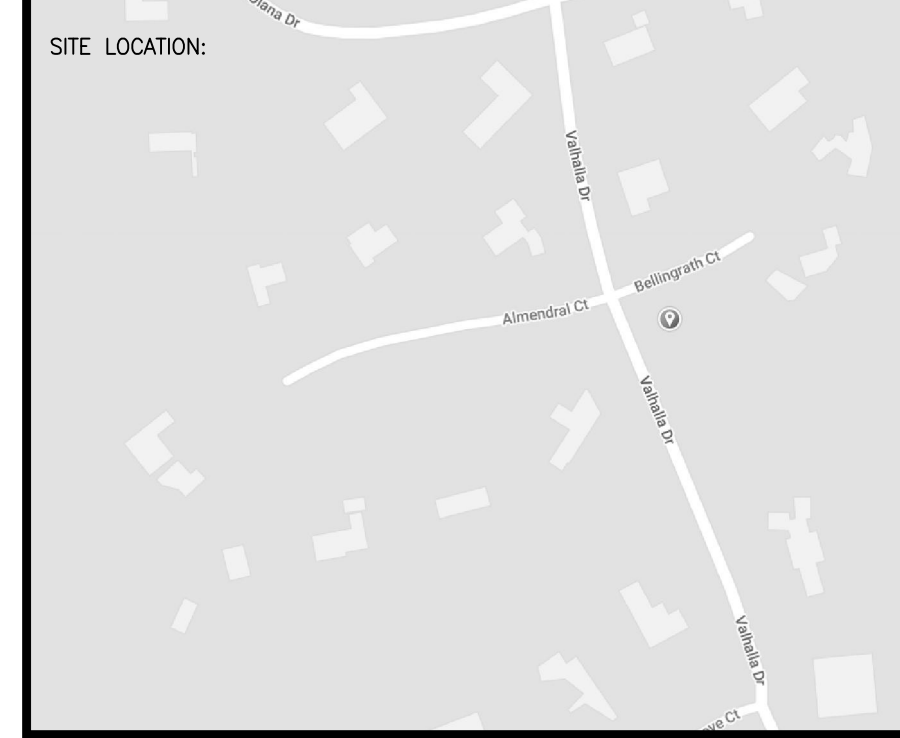
SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	S.L.N.
⊗	59	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
⊗	9	SEM-RECESS	SEN-J	FR-RES	1/2"	4.9	205	WHITE	SS4461
⊗	1	CONCEALED	SEN-J	2N-UF	1/2"	5.6	282	WHITE	SS2531

62 TOTAL SPRINKLERS

FIRE SPRINKLER SYMBOLS

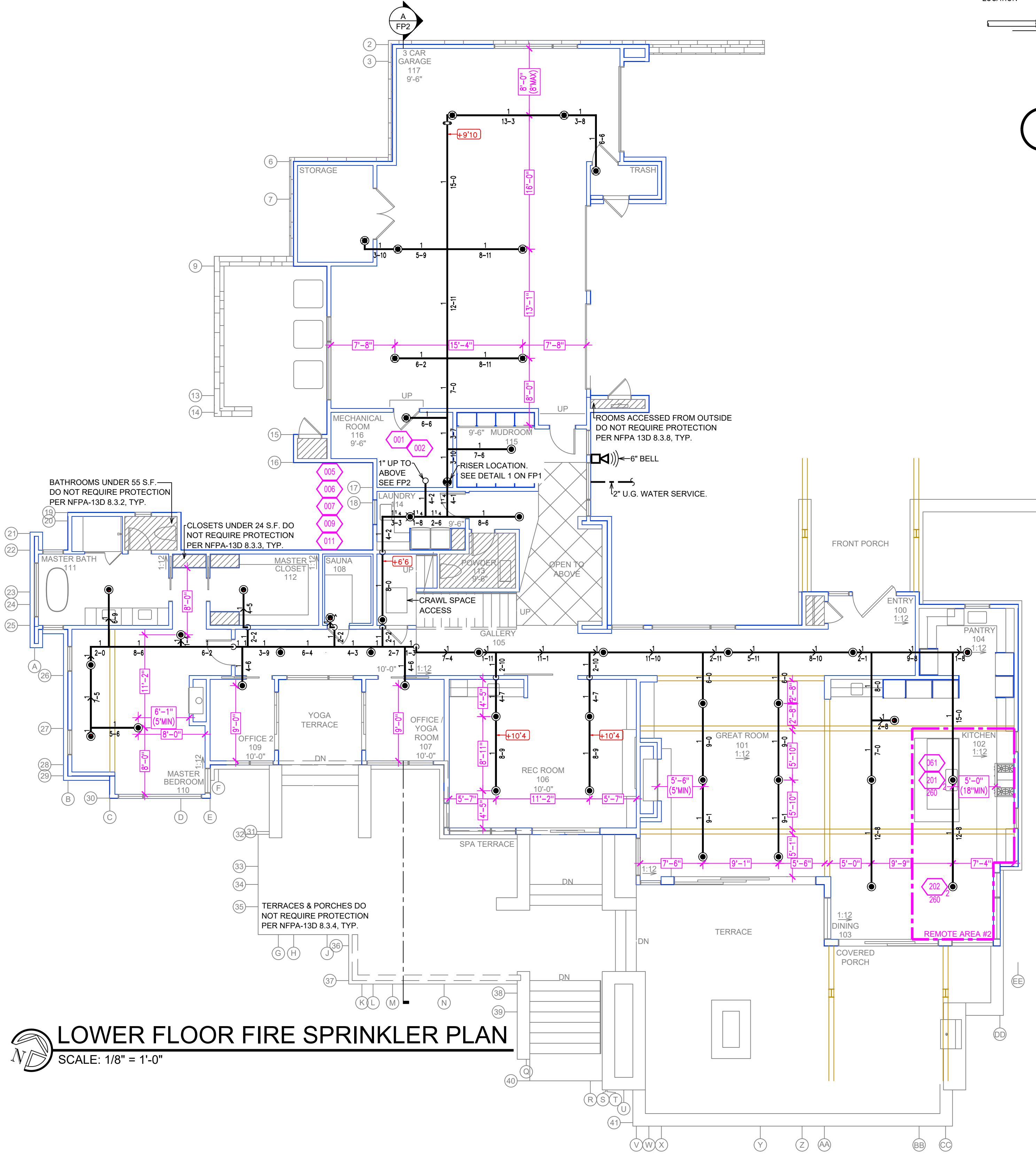
⊗	AUTOMATIC SPRINKLER RISER	+13" ELEV. BELOW DECK OR TOS
⊕	EARTHQUAKE BRACING	+12'-9" ELEV. ABOVE FINISHED FLOOR
⊕	2-WAY & 4-WAY	— CHANGE ELEVATION UP
⊕	PIPE HANGER & TYPE DESIGNATION	— CHANGE ELEVATION DN
⊕	HYDRAULIC REF PT	— INSPECTOR'S TEST
⊕	GRVD OR THRD CAP	— AUX DRAIN
⊕	GRVD COUPLING	— REVISION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



PROJECT NAME:
FIRE SPRINKLER PLANS FOR
RENAUDIN RESIDENCE
MARTIS CAMP LOT 126
TRUCKEE, CA 96161

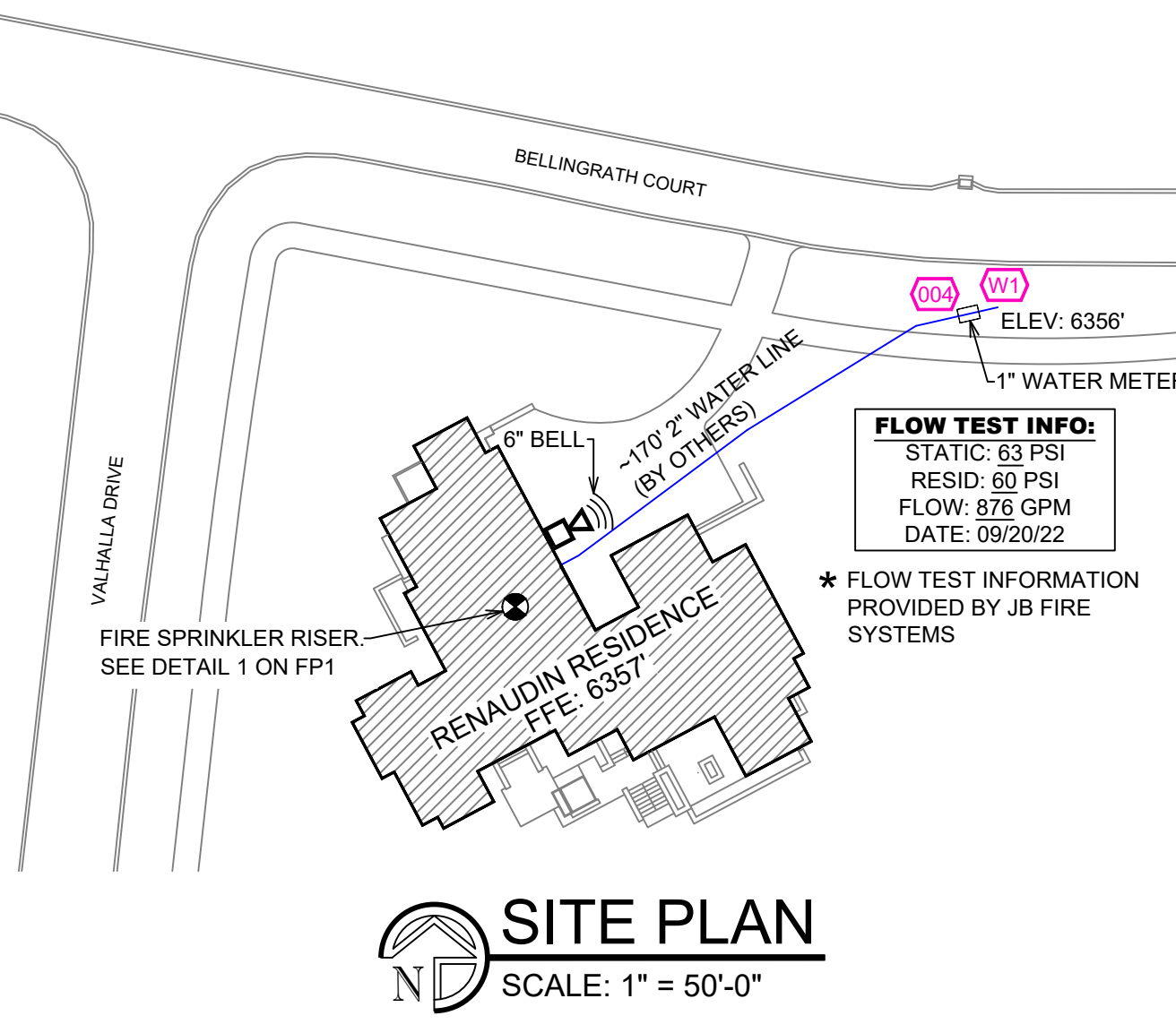
STAMP:
DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"	JOB NO.:	FP-1
BORN ON DATE: 12/10/2022	DWG NO.:	
FILE:	SHEET 1 OF 2	



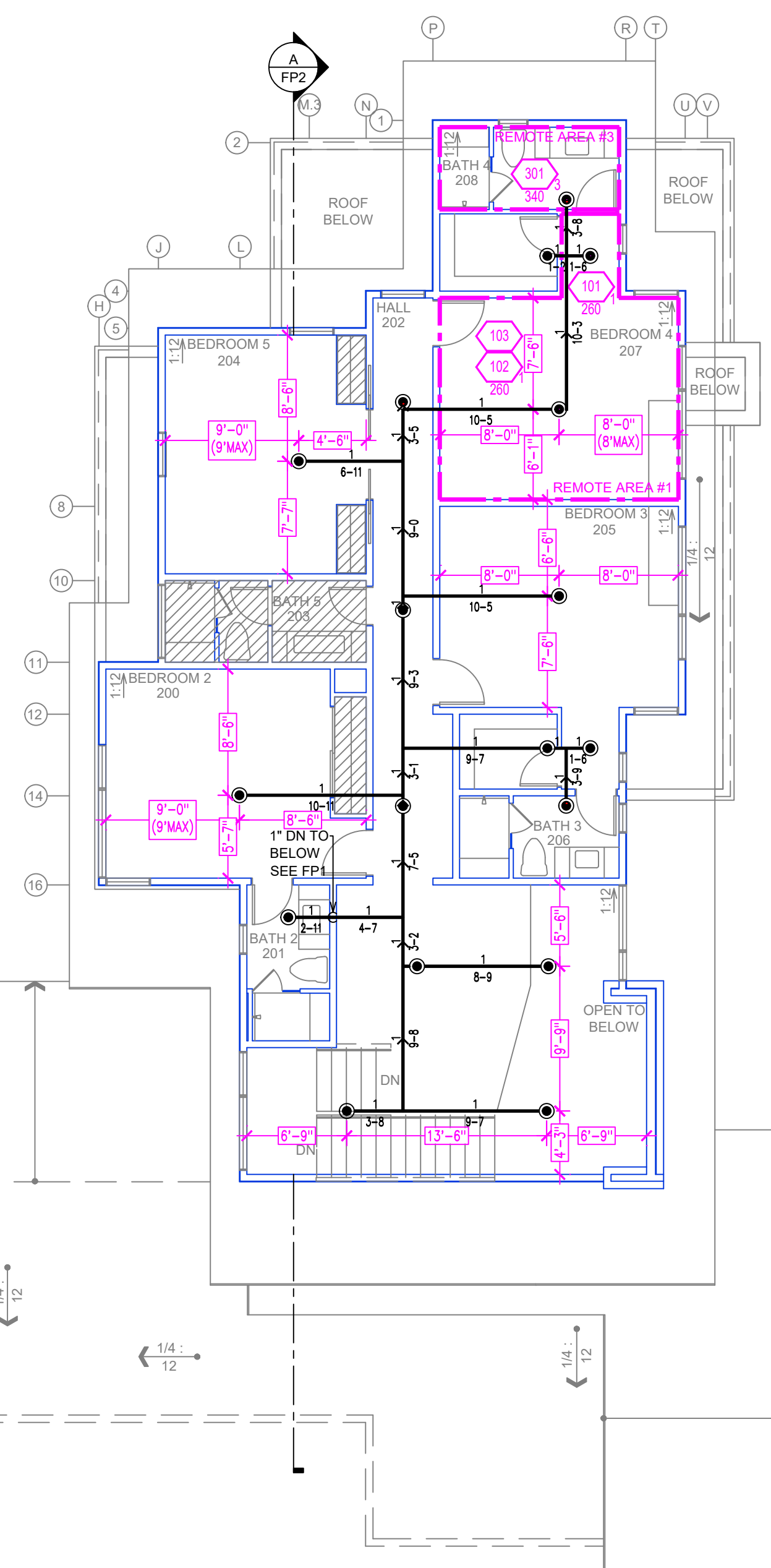
REMOTE AREA 2
Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FPP1 dated 12/10/2022
for RENAUDIN RESIDENCE
at KITCHEN/DINING 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 [] sq ft (m²) when supplied with water at the rate of 31.4 gpm (L/min) at 57.4 psi (bars) at the base of the riser.
Hose stream allowance of 5 gpm (L/min) is included in the above.
Occupancy classification: LIGHT HAZARD
Commodity classification: N/A
Maximum storage height: N/A
Safety factor: 5.6



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

SITE PLAN
SCALE: 1" = 50'-0"



REMOTE AREA 1

Hydraulically Calculated System

This system as shown on Fire Protection Plan
 company print no. FP1 dated 12/10/2022
 for RENAUDIN RESIDENCE
 at BEDROOM 4 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 31.3 gpm (L/min)
 at 51.9 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 11.1

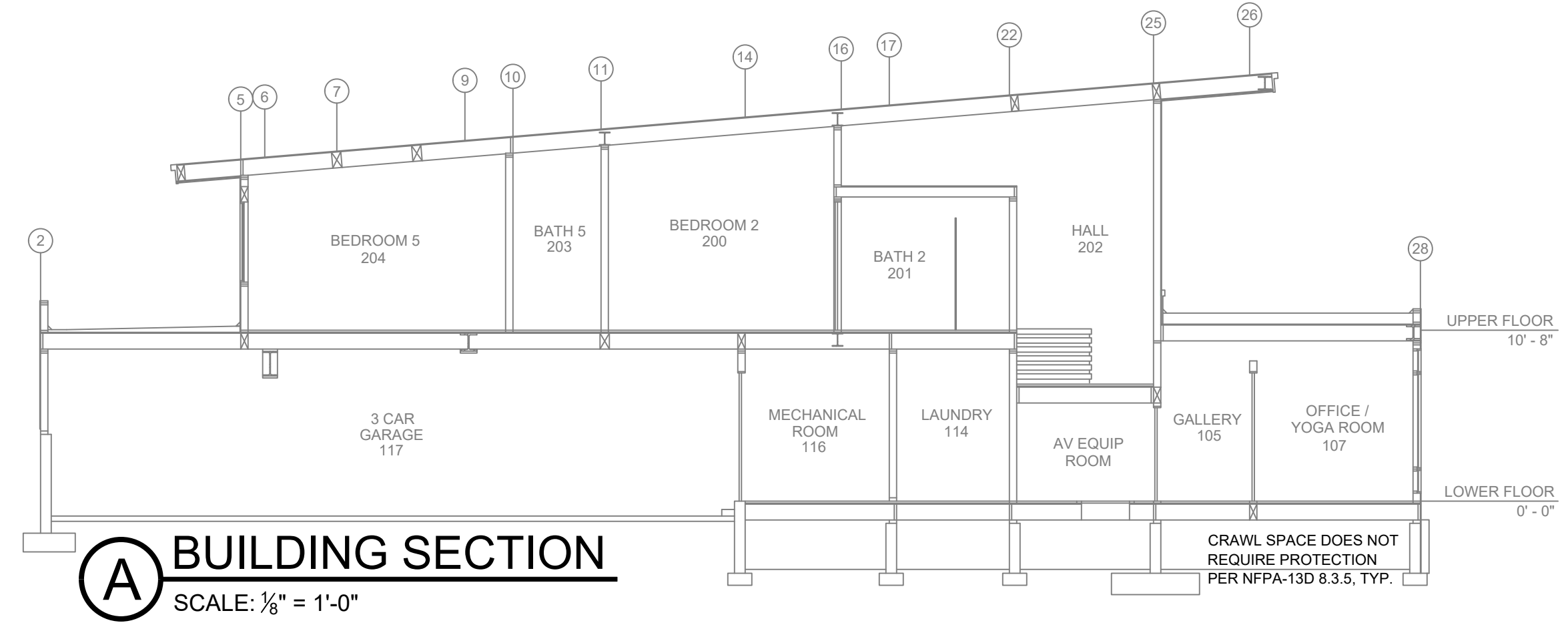
REMOTE AREA 3

Hydraulically Calculated System

This system as shown on Fire Protection Plan
 company print no. FP1 dated 12/10/2022
 for RENAUDIN RESIDENCE
 at BATHROOM 4 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 - 1 SPRINKLER sq ft (m²) when supplied
 with water at the rate of 22.0 gpm (L/min)
 at 48.9 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 16.1

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



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

NO.	DATE	REVISIONS	DRAWN	CHECKED

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 CITY: TRUCKEE, CA 96161
 PHONE: 530-582-7820
 CONTACT: CONTACT:

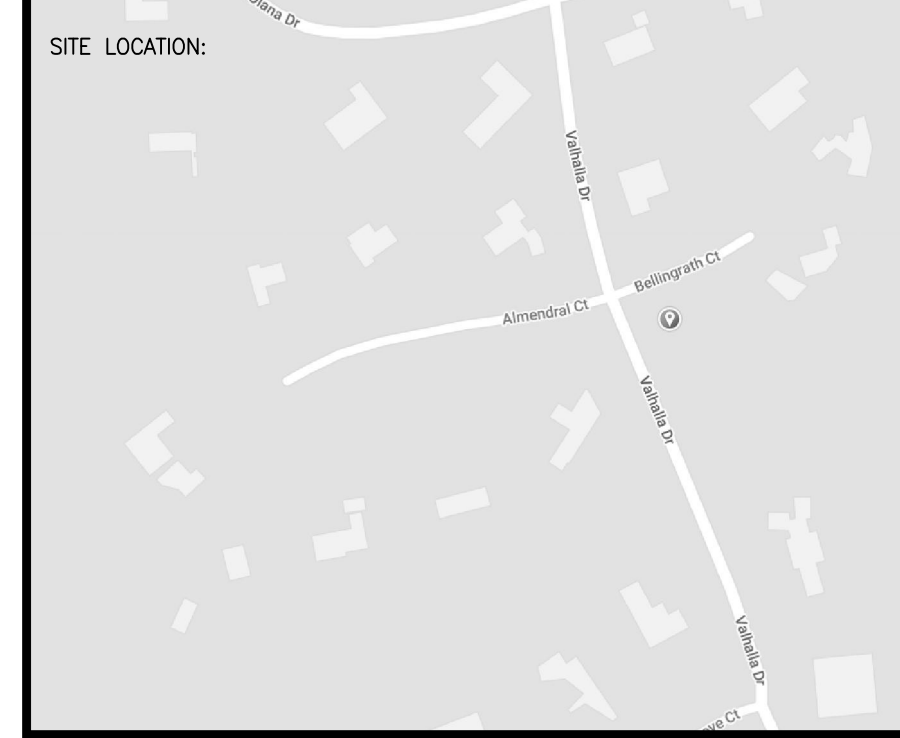
ARCHITECT: FIELD INSPECTIONS:
 1.
 2.
 3.
 4.

- FIRE SPRINKLER NOTES:**
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 - GRVD OR THRD CAP
 - GRVD COUPLING
 - ⊕ TYPICAL POINT OF CONNECTION (POC)
 - ↗ CHANGE ELEVATION UP
 - ↘ CHANGE ELEVATION DN
 - ⊕ INSPECTORS TEST
 - ⊕ AUX DRAIN
 - ⊕ REVISION NOTATION
 - ⊕ LOCAL ALARM



PROJECT NAME:
**FIRE SPRINKLER PLANS FOR
 RENAUDIN RESIDENCE**
 MARTIS CAMP LOT 126
 TRUCKEE, CA 96161

STAMP:

DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0" JOB NO.:
 DWG NO.:
FP-2

BORN ON DATE: 12/10/2022 SHEET 2 OF 2