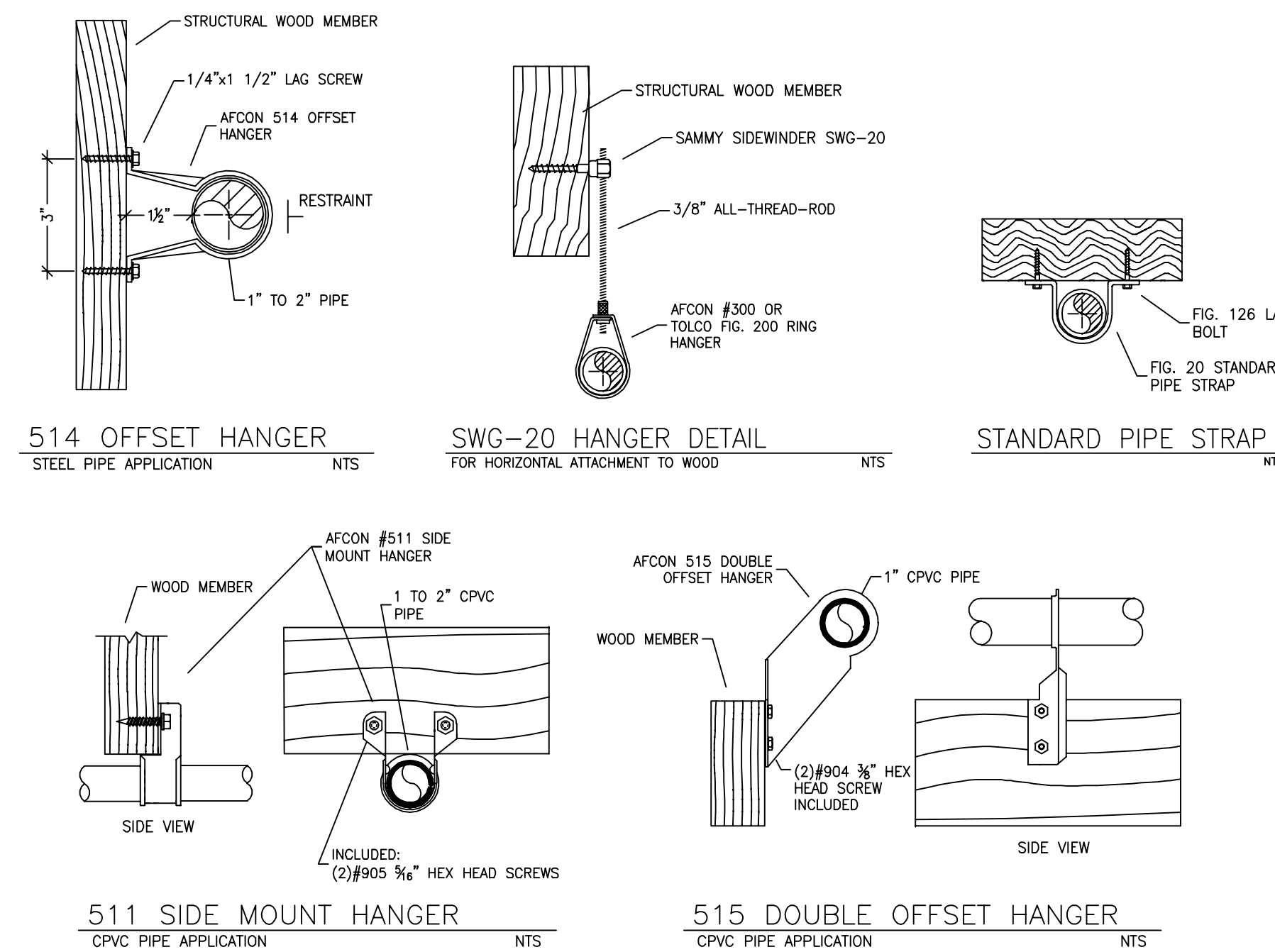


LOWER LEVEL FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



HANGER DETAILS

REMOTE AREA 2
Hydraulically Calculated System

This system as shown on Fire Protection Plan company print no. FP1 dated 1/16/2022 for MARTIS LOT 614 at BUNK ROOM 1 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 39.0 gpm (L/min) at 78.7 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 HAZARD
Commodity classification: N/A
Maximum storage height: N/A
Safety factor: 41.3

SUBMITTAL

NO SPRINKLERS REQUIRED IN:
BATHROOMS 55 SQ. FT. OR LESS IN AREA PER NFPA 13D SECTION 8.3.2
CLOSETS 24 SQ. FT. OR LESS IN AREA PER NFPA 13D SECTION 8.3.3

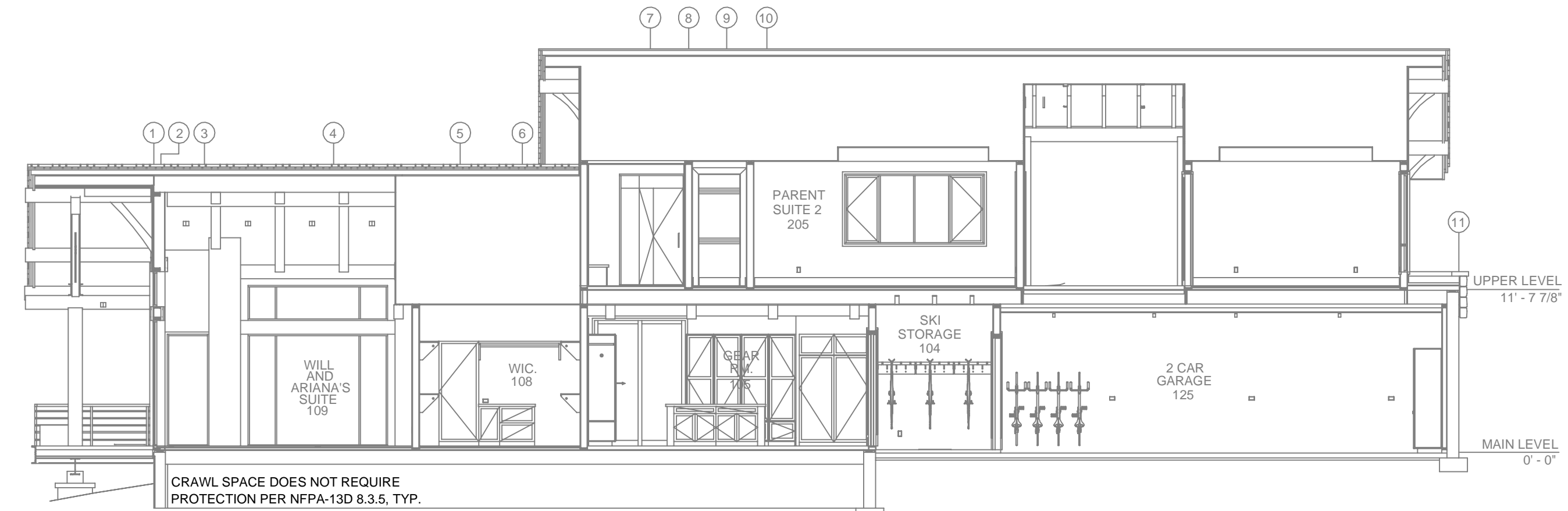
PROJECT SQUARE FOOTAGES
LOWER LEVEL (ZONE 1) = 3,145 S.F.
MAIN LEVEL (ZONE 2) = 5,267 S.F.
UPPER LEVEL (ZONE 2) = 1,538 S.F.

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

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



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

PIPE VOLUMES:
(CPVC)
ZONE 2: MAIN & UPPER LEVEL
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 671' (33.18 GAL)
1 1/4" = 20' (1.59 GAL)

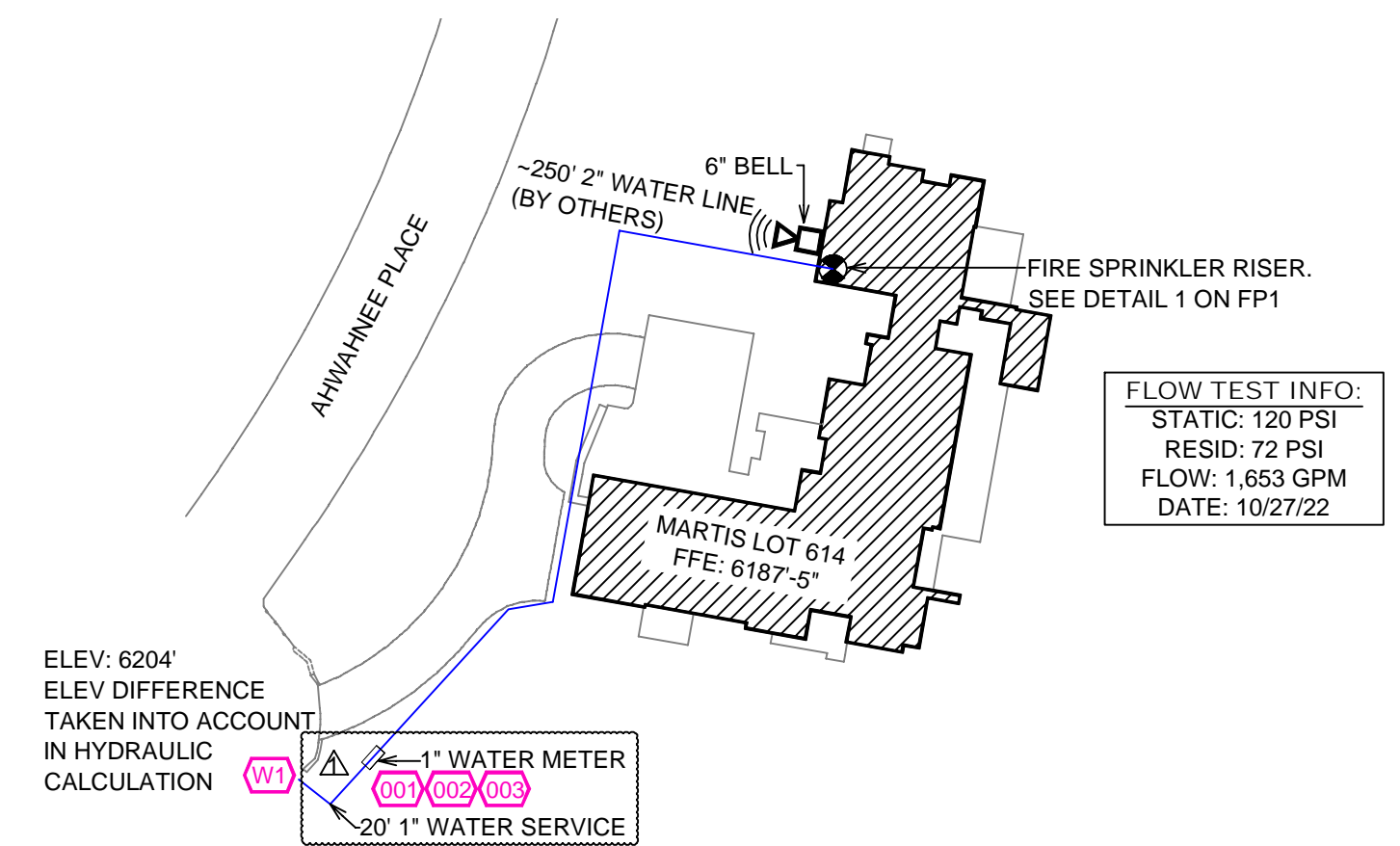
ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
TOTAL VOLUME: ±38.25 GALLONS

PIPE VOLUMES:
(CPVC)
ZONE 1: LOWER LEVEL
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 340' (16.81 GAL)

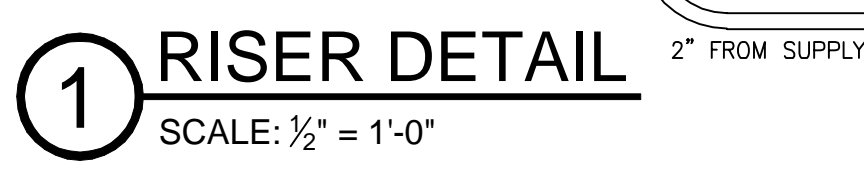
ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
TOTAL VOLUME: ±18.50 GALLONS

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 (gpi)	CPVC (gpi)
1"	0.045	0.049
1 1/4"	0.078	0.085
1 1/2"	0.106	0.115
2"	0.174	0.190
2 1/2"	0.248	0.283



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



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

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. MIN SPACING BETWEEN SPRINKLERS 8'-0".
- TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 18'x18' (324 SQ. FT.) OR UP TO 9' OFF A WALL. MIN SPACING BETWEEN SPRINKLERS 8'-0".
- 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

PROJECT SUMMARY:

PROJECT NAME: MARTIS LOT 614
PROJECT ADDRESS: 9642 AHWAHNEE PL, TRUCKEE, CA 96161
APN: 106-280-004-000
PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: VB (5-B)
OCCUPANCY GROUP(S): R-3
OCCUPIED LEVELS: 3
TOTAL SPRINKLERED AREA: 9,950 SQ. FT.
NFPA CODE REQUIREMENT: NFPA 13 NFPA 13R NFPA 13D
NUMBER OF SYSTEMS: 2
SYSTEM TYPE(S): WET ANTI-FREEZE DRY PREACTION
TOTAL SPRINKLERS: 121
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

NO.	DATE	REVISIONS	REVISIONS	DWG	CHECKED
1	2/7/23			DVG	

GENERAL CONTRACTOR: _____ AUTHORITY HAVING JURISDICTION: _____
ADDRESS: _____ ADDRESS: 10183 TRUCKEE AIRPORT RD
CITY: TRUCKEE, CA 96161
PHONE: _____ PHONE: 530-582-7820
CONTACT: _____ 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 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.L.N.
⊗	100	CONCEALED	SEN/J	RC-RES	1/2"	4.9	162	WHITE	SS8464
⊗	5	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	SS4461
⊗	1	CONCEALED	SEN/J	ZH-UF	1/2"	5.6	282	WHITE	SS2531

112 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 → INSPECTORS TEST
- ⊚ GRV OR THRD CAP → AUX DRAIN
- ⊛ GRVD COUPLING → REVISION NOTATION
- ⊜ TYPICAL POINT OF CONNECTION (POC) → LOCAL ALARM

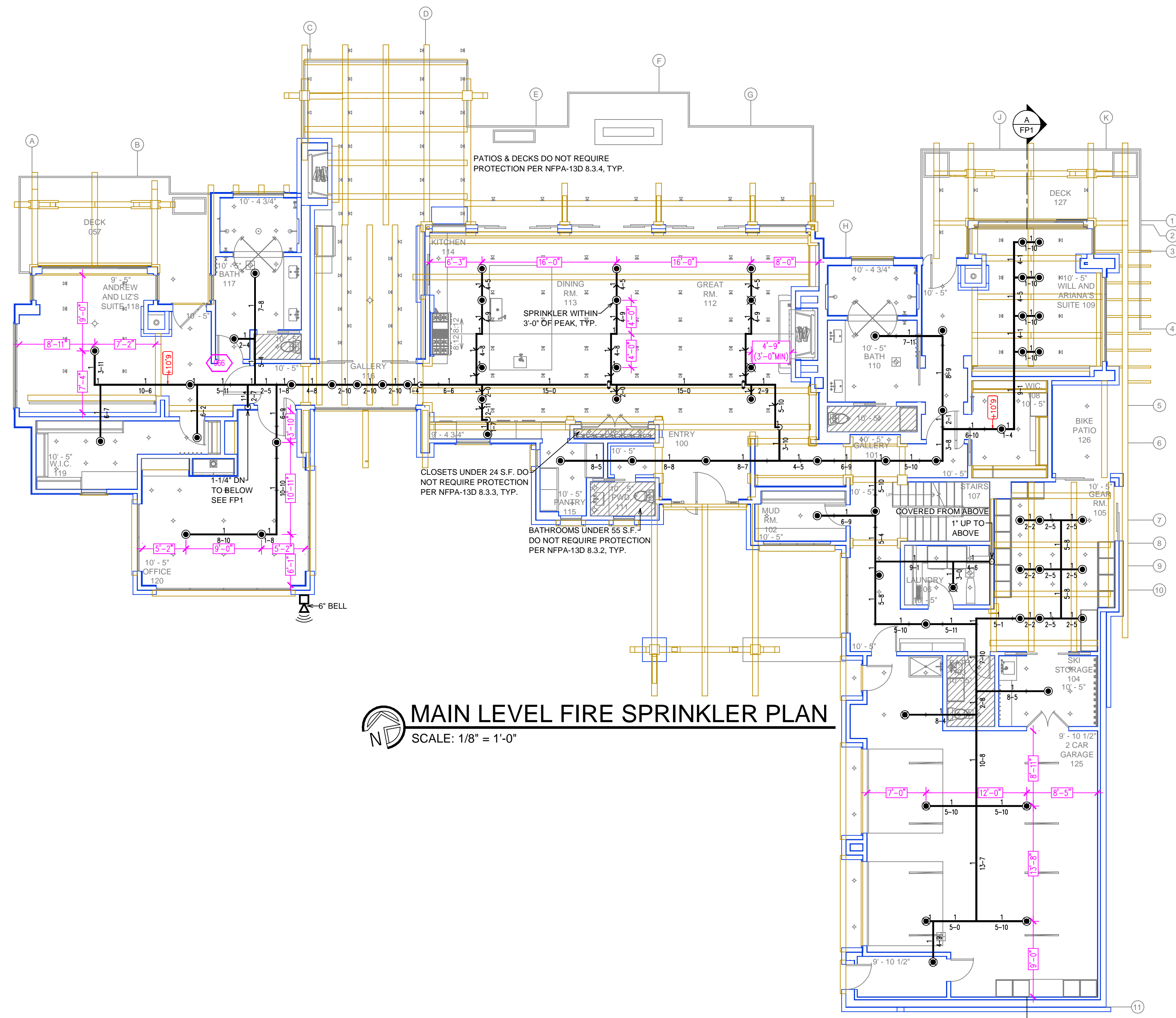
SITE LOCATION: [Map showing location at 9642 Ahwahnee Pl, Truckee, CA 96161]

PROJECT NAME: **FIRE SPRINKLER PLANS FOR MARTIS LOT 614**
9642 AHWAHNEE PLACE
TRUCKEE, CA 96161

STAMP: _____

DRAWING TITLE: **FIRE SPRINKLER PLAN**

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



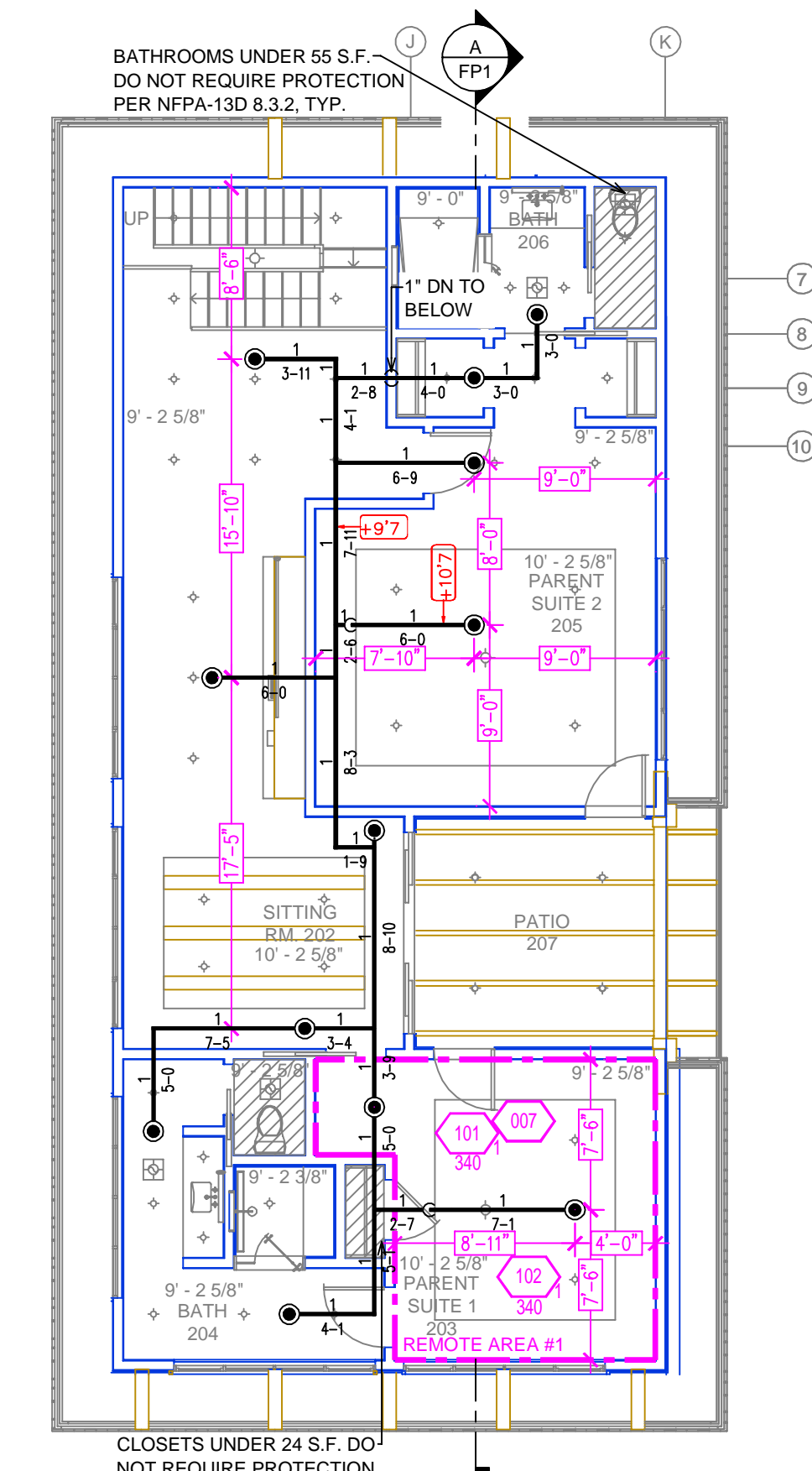
MAIN LEVEL FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

REMOTE AREA 1

Hydraulically Calculated System

This system as shown on Fire Protection Plan company print no. FPP1 dated 1/16/2022 for MARTIS LOT 614 at PARENT SUITE 1 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 40.3 gpm (L/min) at 114.7 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 HAZARD
Commodity classification: N/A
Maximum storage height: N/A
Safety factor: 5.2



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

NO.	DATE	REVISIONS	DRAWN	CHECKED
1	2/7/23	REVISIONS	DVG	

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

ARCHITECT: _____ FIELD INSPECTIONS: 1. _____ 2. _____ 3. _____ 4. _____
ADDRESS: _____ CITY: _____ PHONE: _____

FIRE SPRINKLER NOTES:

1. THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D.
2. THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.
3. THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS.
4. ALL SPRINKLER PIPING CONCEALED ABOVE CEILINGS SHALL BE CPVC PIPING UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.
6. ALL HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13D AND/OR NFPA 13 REQUIREMENTS.
7. HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING.
8. ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.
9. 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).

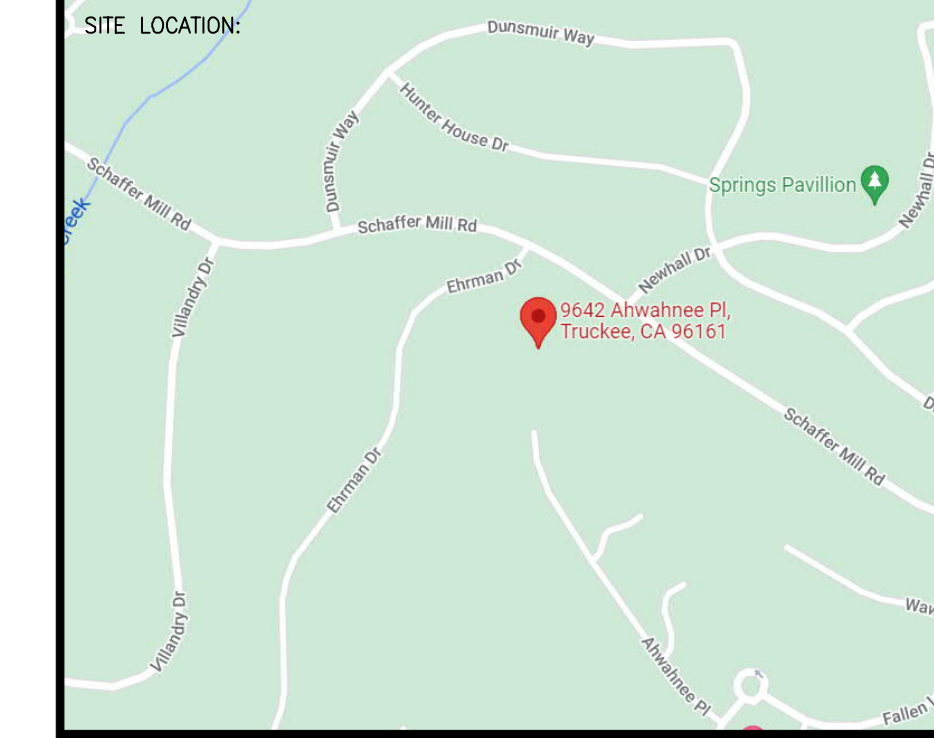
SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	S.L.N.
⊗	100	CONCEALED	SEN/J	RC-RES	1/2"	4.9	162	WHITE	SS8464
⊗	5	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	SS4461
⊗	1	CONCEALED	SEN/J	2N-UF	1/2"	5.6	282	WHITE	SS2531

112 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	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
MARTIS LOT 614
9642 AHWAHNEE PLACE
TRUCKEE, CA 96161

STAMP:

DRAWING TITLE: FIRE SPRINKLER PLAN

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