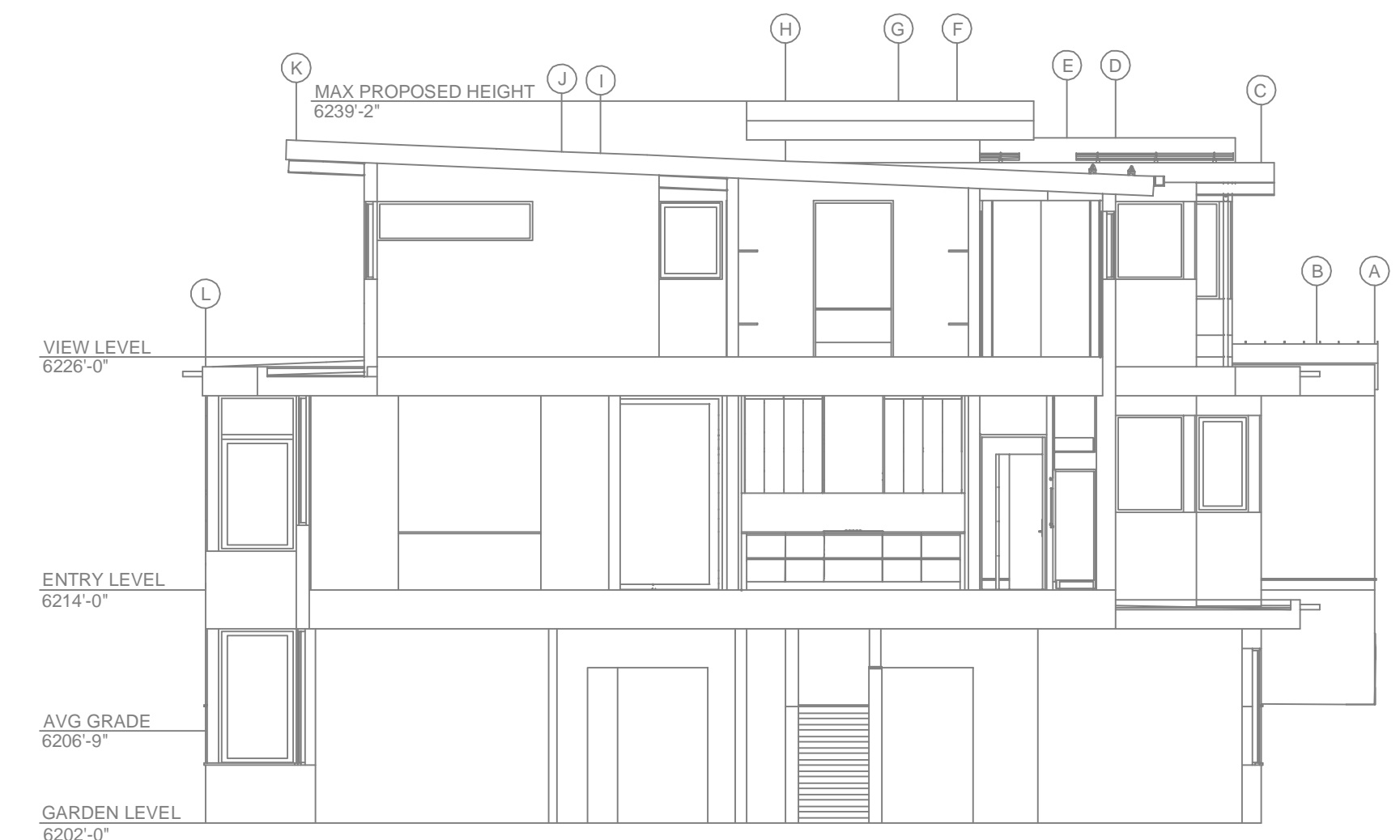
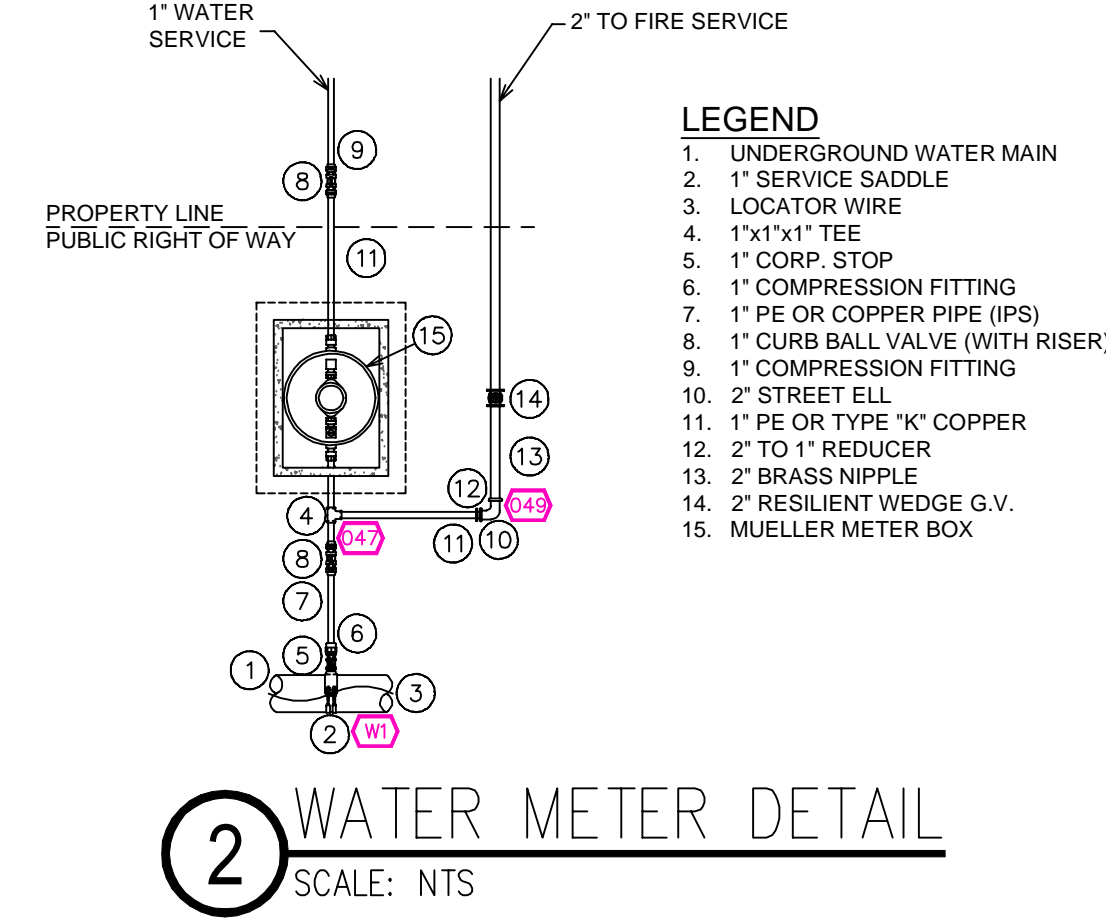


HANGER DETAILS



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

PROJECT SUMMARY:

PROJECT NAME: MEYERS RESIDENCE
 PROJECT ADDRESS: 9259 BRAE CT, TRUCKEE, CA 96161
 APN: 107-240-009
 PROJECT TYPE: NEW T.I.
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY GROUP(S): R3
 OCCUPIED LEVELS: 3
 TOTAL SPRINKLERED AREA: 4145 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: 60
 SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

PIPE VOLUMES:
(CPVC)

TOTAL PIPE FOOTAGE AND CAPACITY:
 1" = 486' (24.03 GAL)
 1 1/2" = 128' (10.15 GAL)

ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
 TOTAL VOLUME: ±37.60 GALLONS

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

Nominal Pipe Diameter (in.)	Schedule 40 (gal)	Schedule 10 (gal)	CPVC (gal)
1	0.045	0.049	0.049
1 1/4	0.078	0.085	0.079
1 1/2	0.106	0.115	0.104
2	0.174	0.190	
2 1/2	0.248	0.283	

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

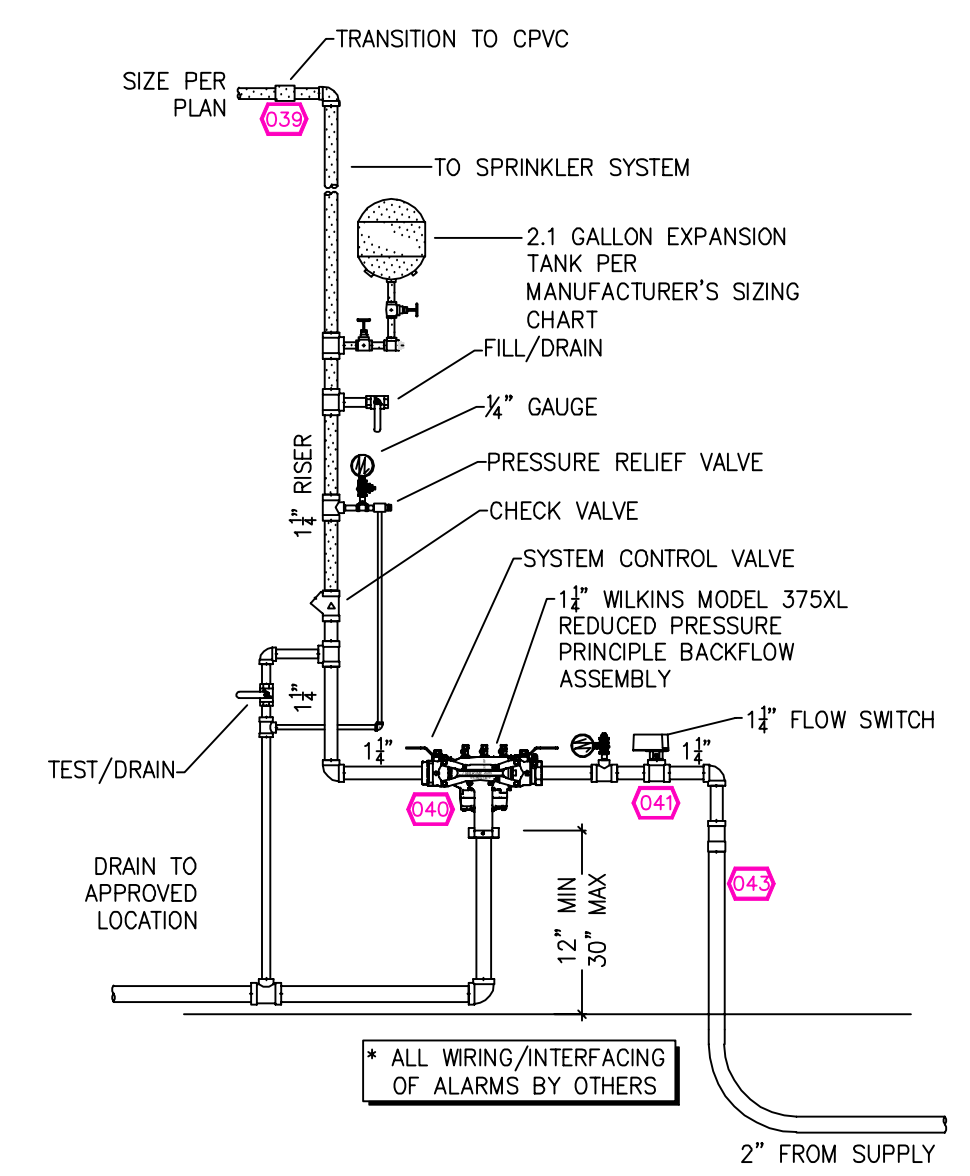
PROJECT SQUARE FOOTAGES

LOWER LEVEL	= 1,907 S.F.
MAIN LEVEL	= 2,788 S.F.
UPPER LEVEL	= 1,242 S.F.

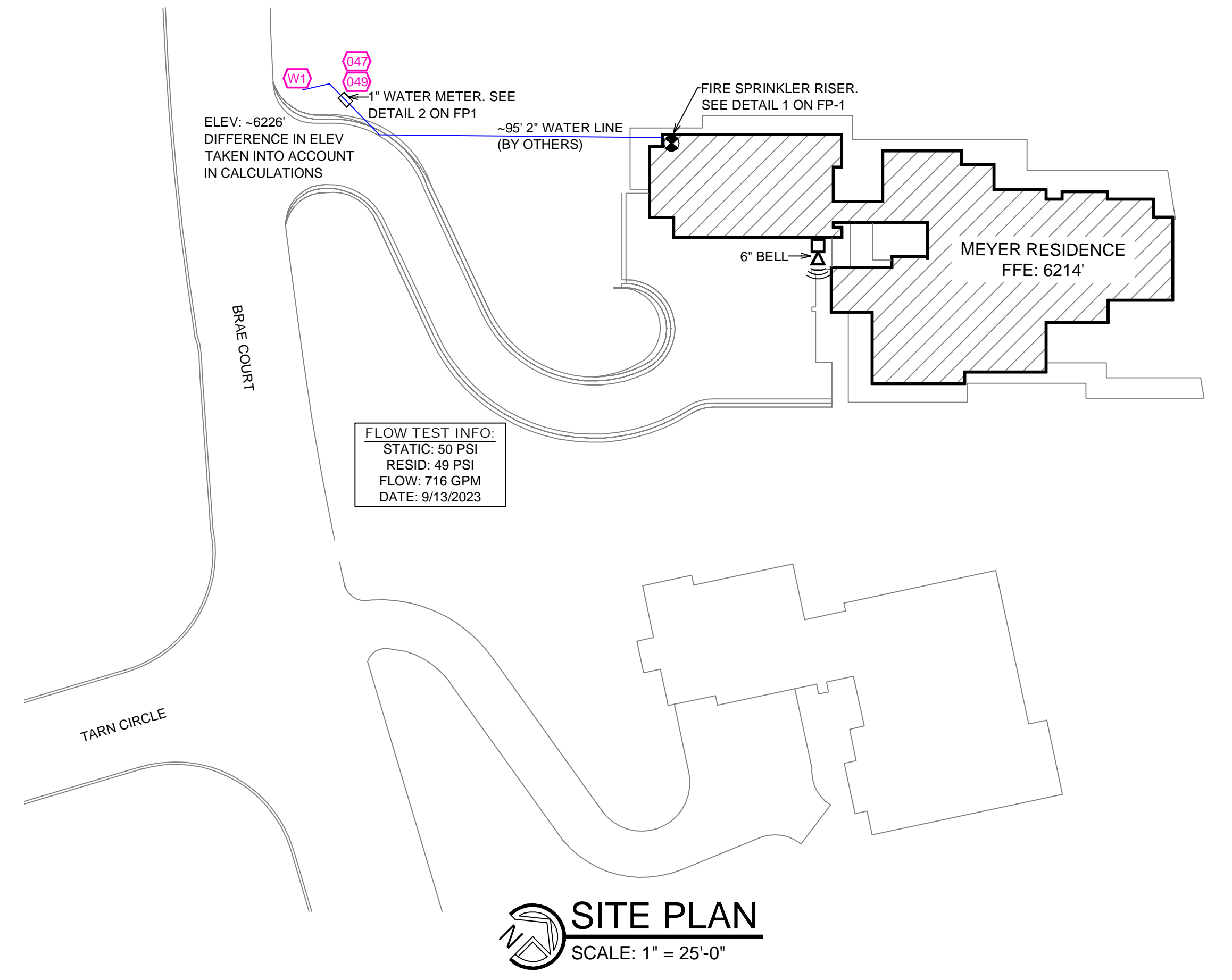
SPRINKLER SPACING

- 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 CEILINGS.

THIS FIRE SPRINKLER SYSTEM UTILIZES THE NOBLE COMPANY FIREFIGHTER ELIMINATOR ANTI-FREEZE SOLUTION



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



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

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

	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

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: AUTHORITY HAVING JURISDICTION:
 TOWN OF TRUCKEE BUILDING DIVISION
 ADDRESS: 10183 TRUCKEE AIRPORT RD
 CITY: TRUCKEE, CA 96161
 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.
- 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).

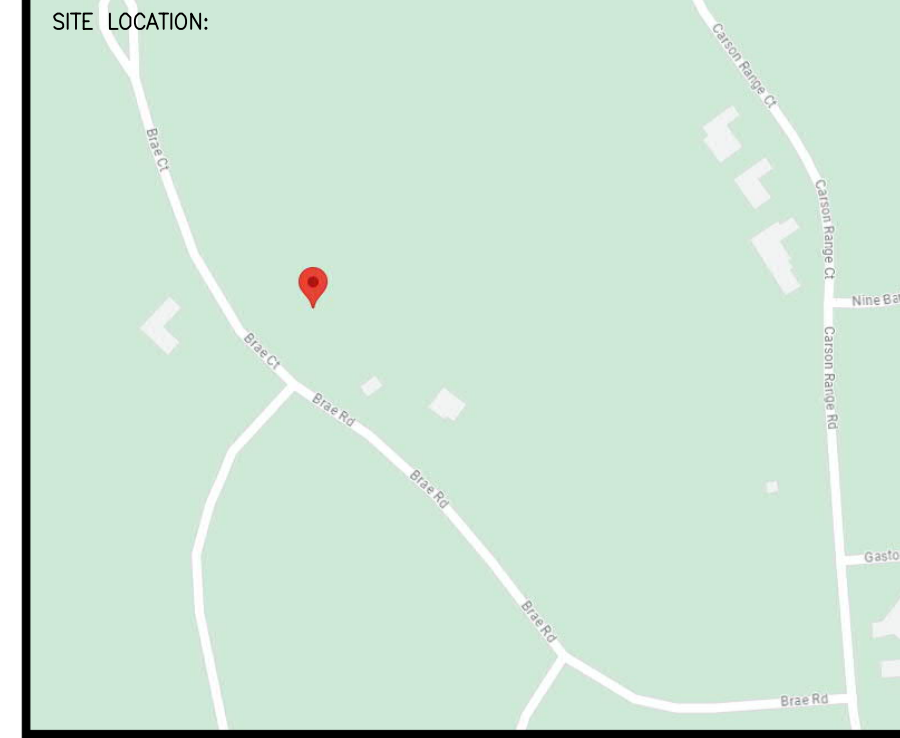
SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	S.I.N.
⊗	49	CONCEALED	SEN/J	RC-RES	1/2"	4.9	152	WHITE	SS444
⊗	3	CONCEALED	SEN/J	RC-RES	1/2"	4.9	205	WHITE	SS444
⊗	8	SEM-RECESS	SEN/J	FR-RES	1/2"	4.9	205	WHITE	SS4451

60 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

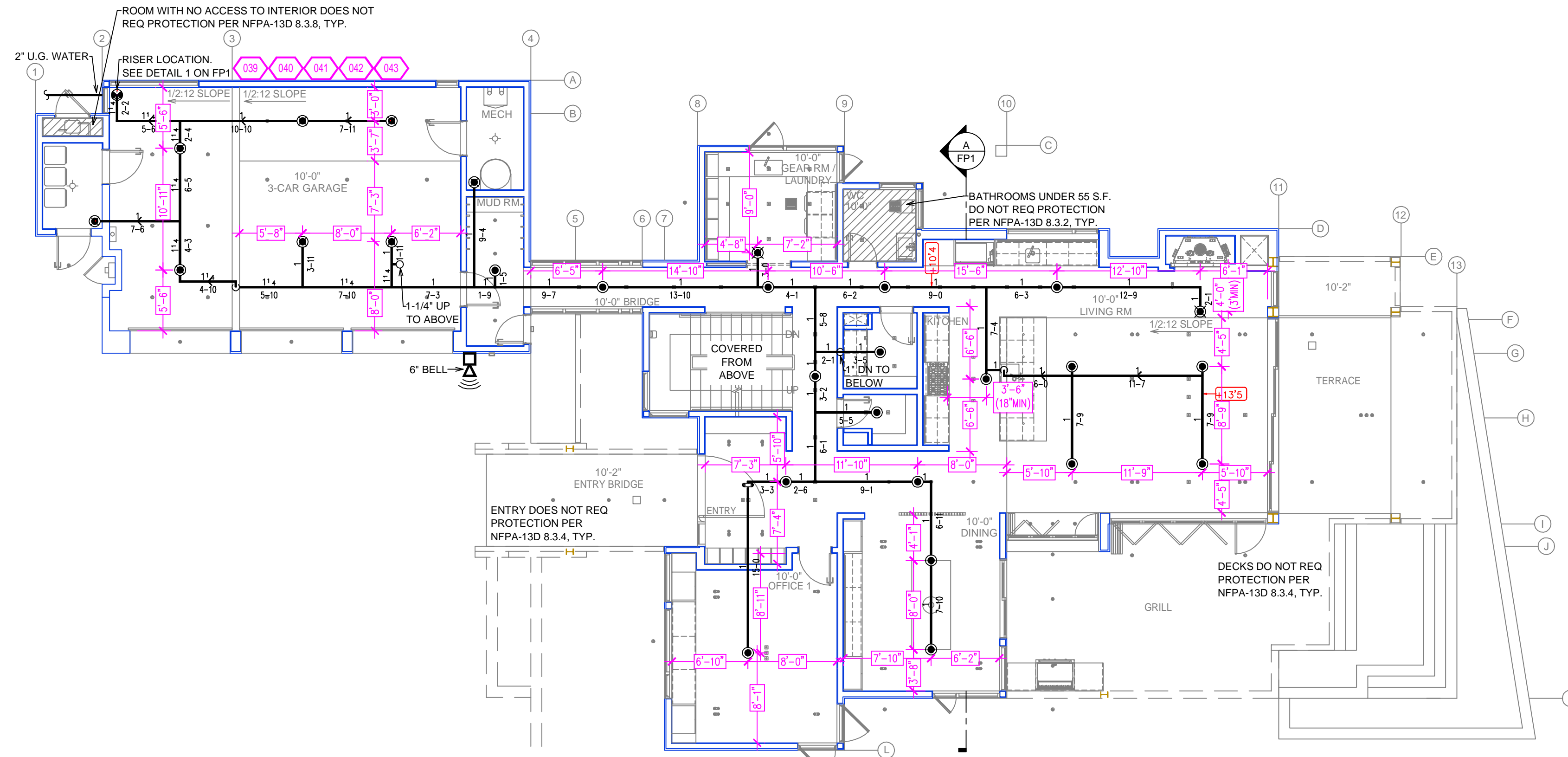


PROJECT NAME: FIRE SPRINKLER PLANS FOR
MEYER RESIDENCE
 9259 BRAE CT
 TRUCKEE, CA 96161

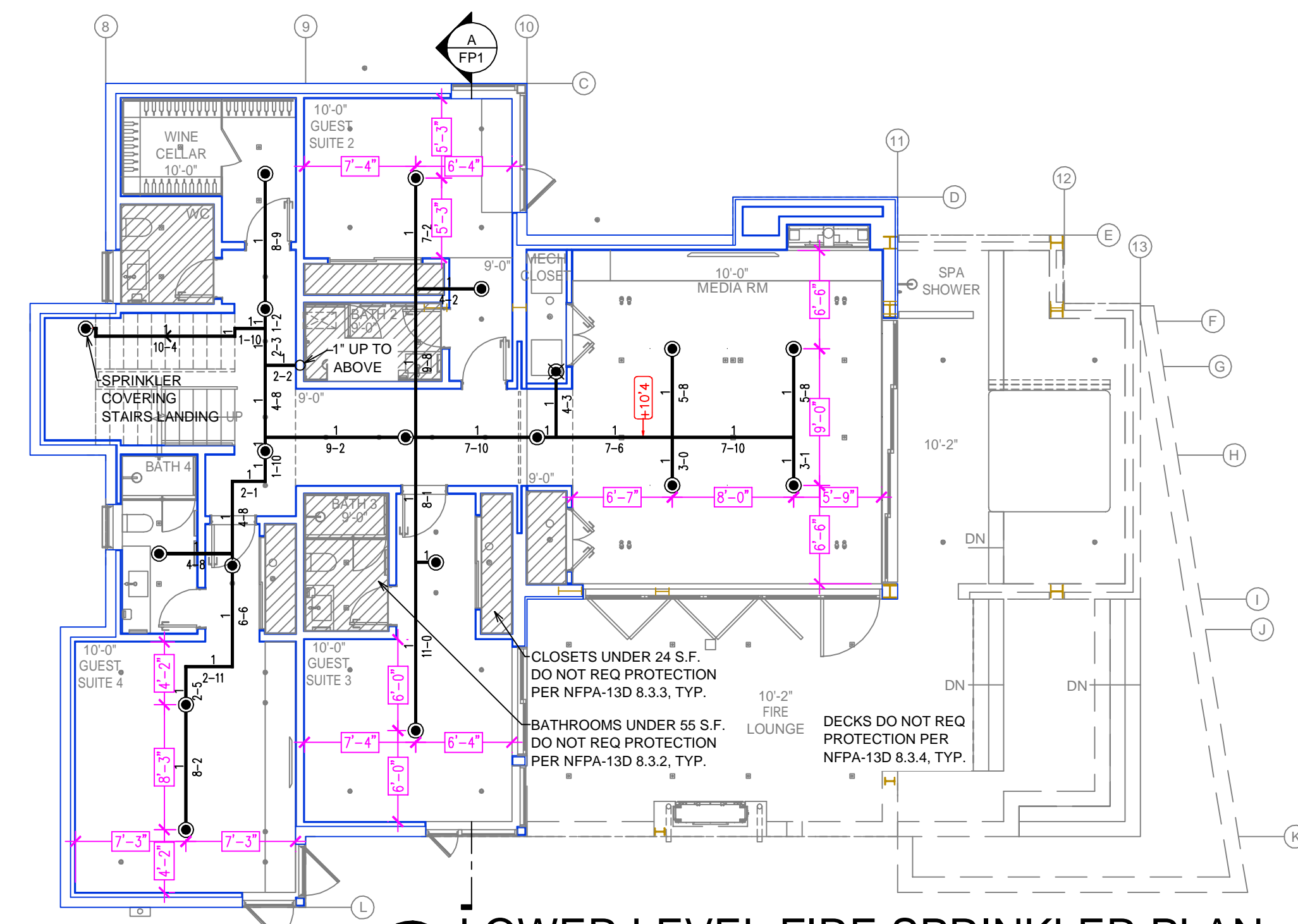
STAMP:

DRAWING TITLE:
FIRE SPRINKLER PLAN

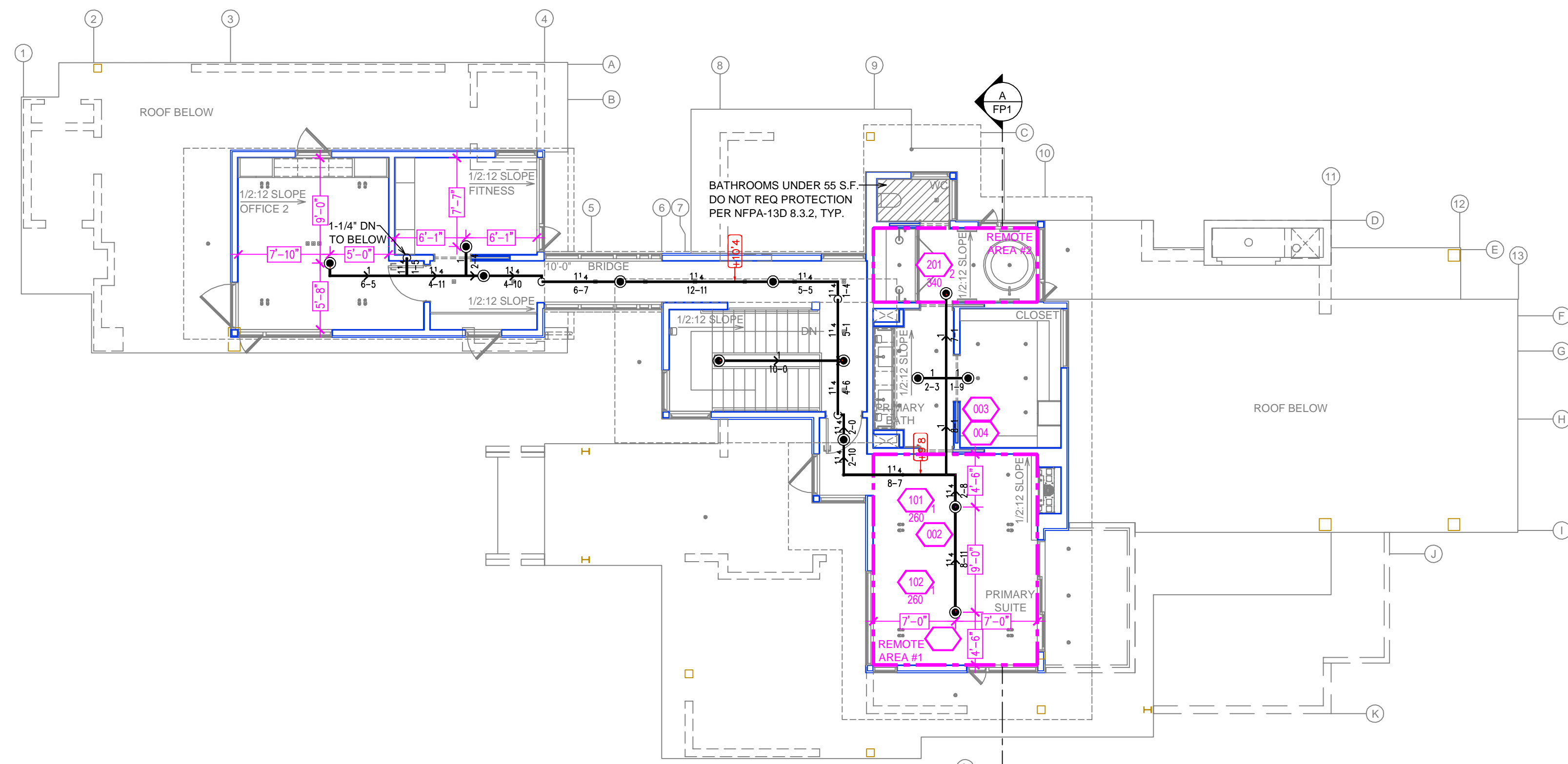
SCALE: 1/8" = 1'-0" JOB NO.:
 DRAWN BY: DWG NO.:
 BORN ON DATE: 12/4/2023 FILE: FP-1
 SHEET 1 OF 2



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



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



UPPER 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. FP1 dated 12/1/2023
for MEYERS RESIDENCE

at PRIMARY SUITE 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 31.2 gpm (L/min)
at 44.6 psi (bars) at the base of the riser.

Hose stream allowance of 5 gpm (L/min)
is included in the above.

Occupancy classification 10 LIGHT HAZARD
Commodity classification N/A
Maximum storage height N/A
Safety factor 5.4

REMOTE AREA 2

Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FP1 dated 12/1/2023
for MEYERS RESIDENCE

at PRIMARY BATH 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 22.9 gpm (L/min)
at 39.8 psi (bars) at the base of the riser.

Hose stream allowance of 5 gpm (L/min)
is included in the above.

Occupancy classification 10 LIGHT HAZARD
Commodity classification N/A
Maximum storage height N/A
Safety factor 10.2

NO.	DATE	REVISIONS	DRAWN	CHECKED

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

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

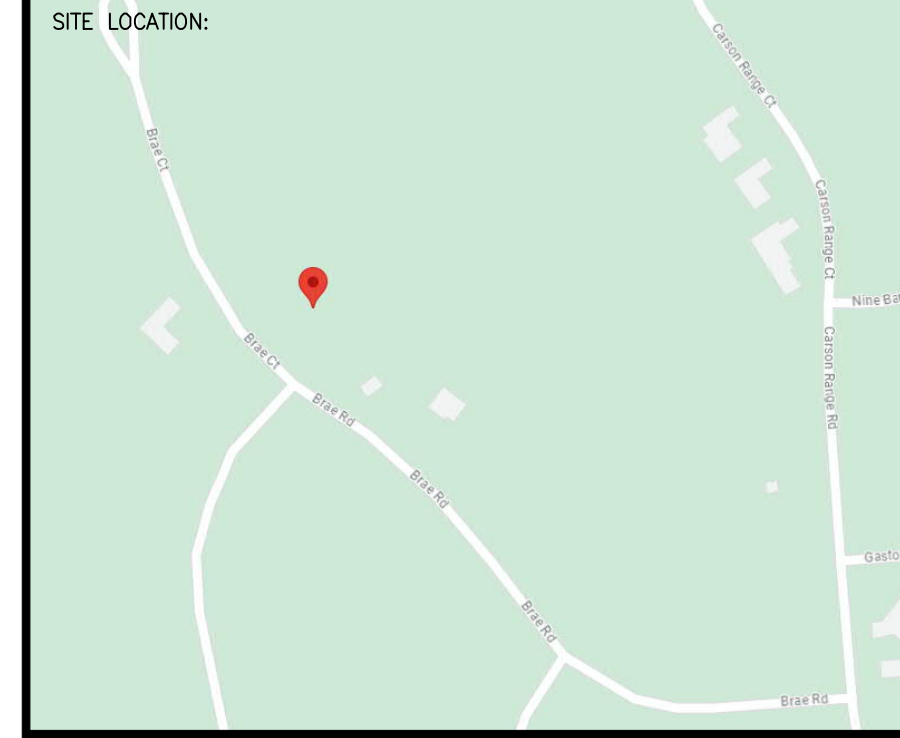
- FIRE SPRINKLER NOTES:**
1. THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D.
 2. THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.
 3. THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS.
 4. ALL SPRINKLER PIPING CONCEALED ABOVE CEILING 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.I.N.
⊙	49	CONCEALED	SEN/J	RC-RES	1/2"	4.9	152	WHITE	SS8464
⊙	3	CONCEALED	SEN/J	RC-RES	1/2"	4.9	205	WHITE	SS8464
⊙	8	SEM-RECESS	SEN/J	FR-RES	1/2"	4.9	205	WHITE	SS4451

60 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
MEYER RESIDENCE
9259 BRAE CT
TRUCKEE, CA 96161

STAMP:

DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"	JOB NO.:
DRAWN BY:	DWG NO.:
BORN ON DATE: 12/4/2023	FP-2
FILE:	SHEET 2 OF 2