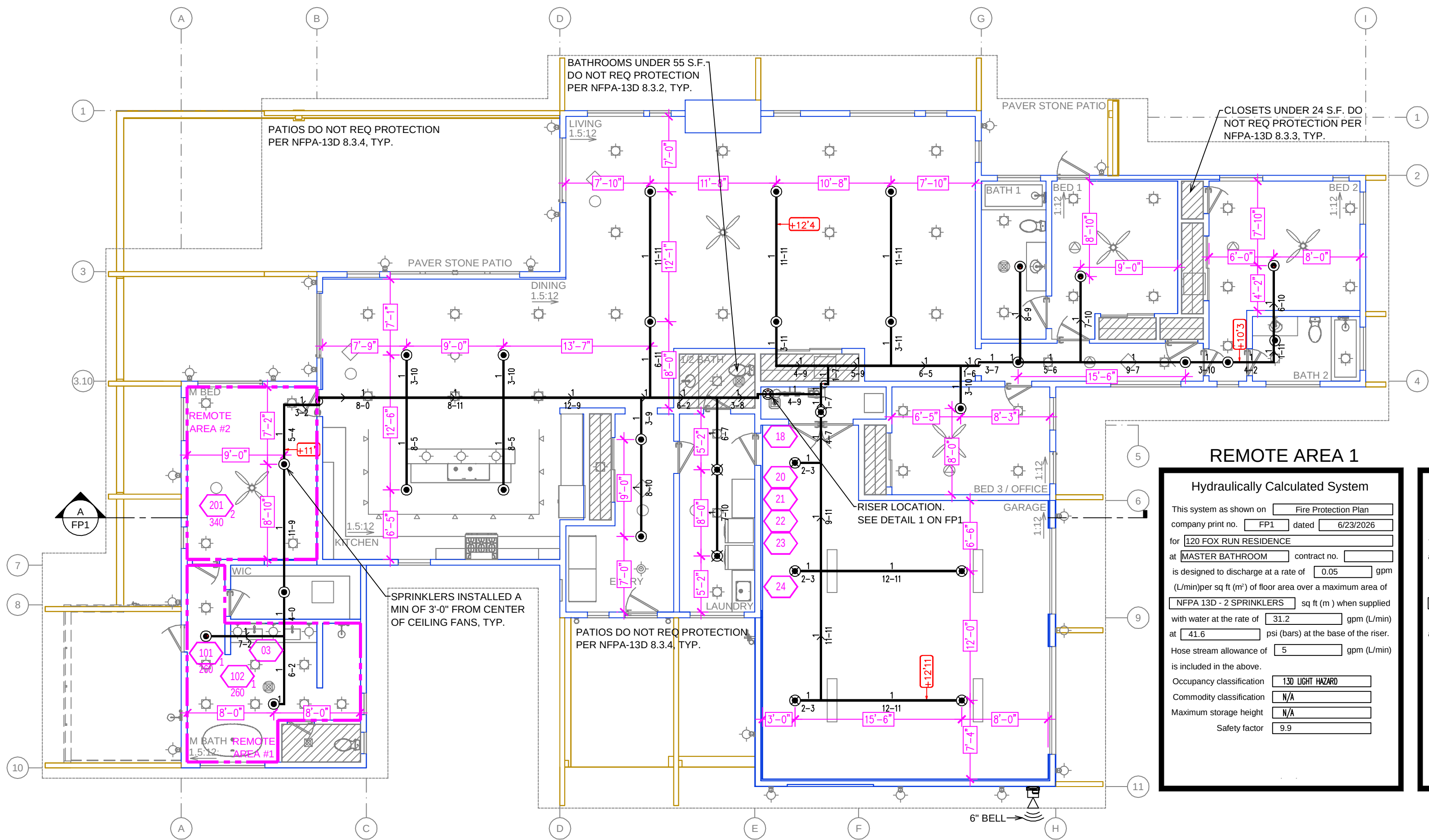




FIRST FLOOR FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

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	6	8		
Steel Pipe except threaded	N/A	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"		
Threaded lightweight steel pipe	N/A	12'-0"	12'-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"	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	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 &	18"	9"	
UNINSULATED HEAT DUCT			
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: 120 FOX RUN RESIDENCE
 PROJECT ADDRESS: 120 FOX RUN, PORTOLA, CA
 APN: 131-110-022
 PROJECT TYPE: ☒ NEW ☐ T.I.
 TYPE OF CONSTRUCTION: V
 OCCUPANCY GROUP(S): R3
 OCCUPIED LEVELS: 1
 TOTAL SPRINKLERED AREA: 4060 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: 32
 SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

PIPE VOLUMES:
(CPVC)
 TOTAL PIPE FOOTAGE AND CAPACITY:
 1" = 340' (16.81 GAL)
 1-1/4" = 7' (0.55 GAL)
 ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
 TOTAL VOLUME: ±19.11 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
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

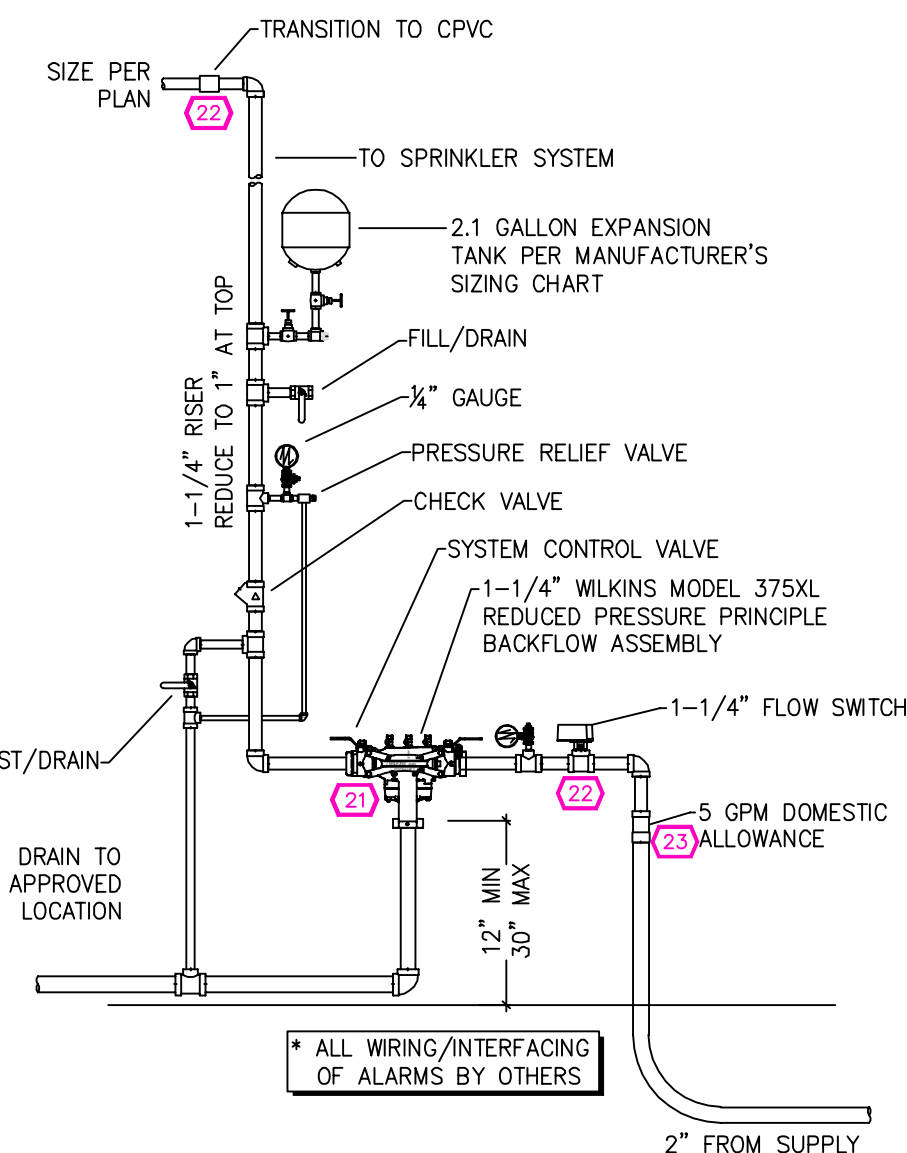
NO SPRINKLERS REQUIRED IN:
 BATHROOMS 55 SQ.FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.2
 CLOSETS 24 SQ.FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.3

PROJECT SQUARE FOOTAGES
 MAIN FLOOR = 4060 S.F.

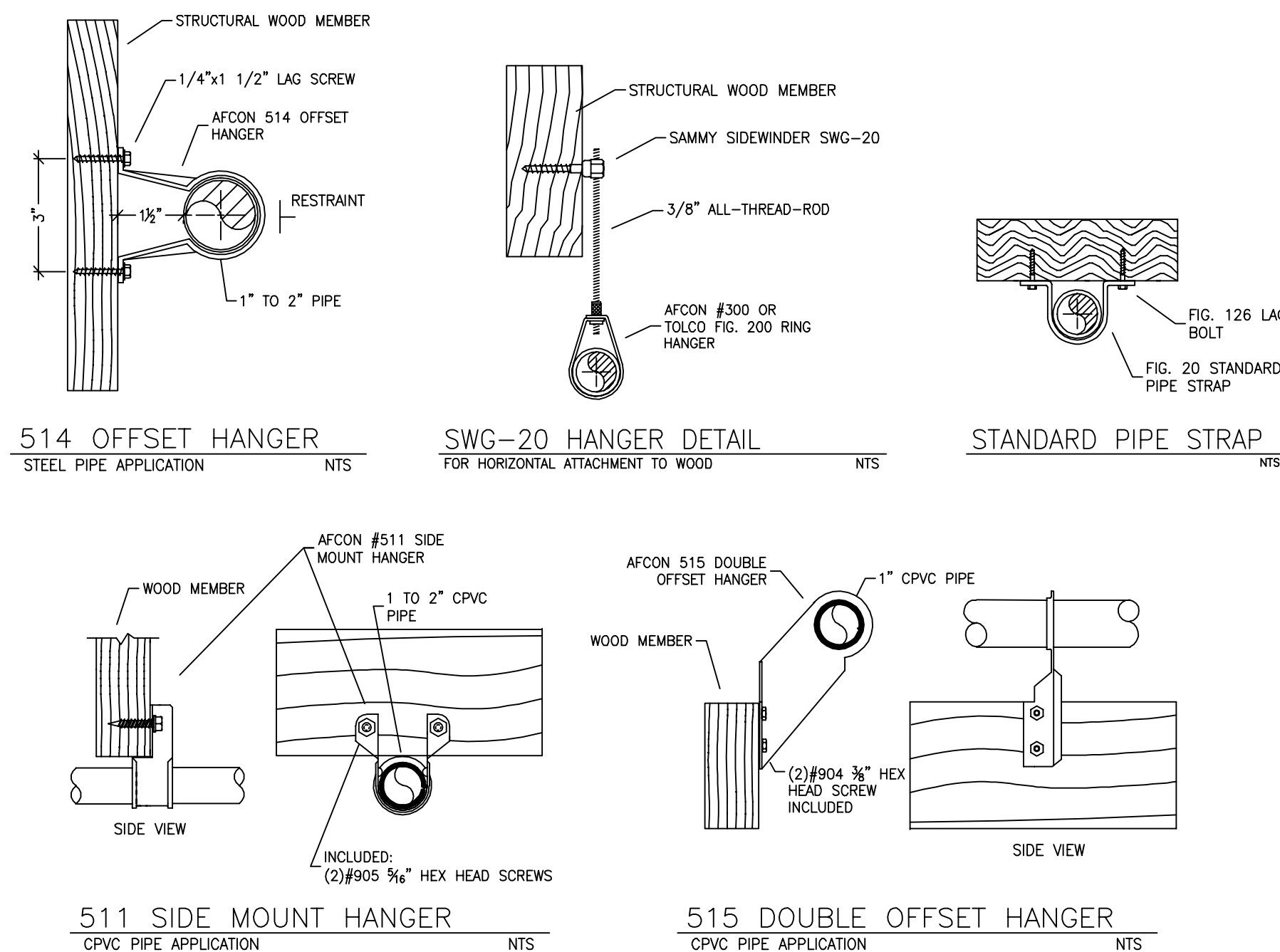
SPRINKLER SPACING

- 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 UNO. (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"



HANGER DETAILS

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
 BECKWORTH FIRE DISTRICT
 ADDRESS: 180 MAIN STREET
 CITY: BECKWORTH, CA
 PHONE: 530-832-1008
 CONTACT:

ARCHITECT: FIELD INSPECTIONS:
 1.
 ADDRESS: 2.
 CITY: 3.
 PHONE: 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 2022 PIPING UNLESS OTHERWISE NOTED.
 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.I.N.
24	CONCEALED	SEN-J	RC-RES	1/2"	4.9	162	WHITE	SS8464	
2	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	

32 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

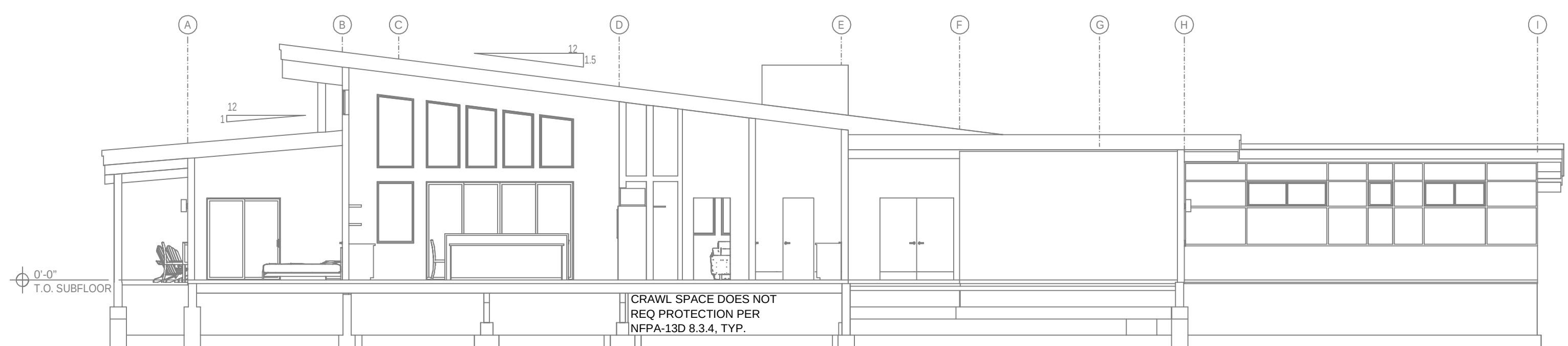


PROJECT NAME: FIRE SPRINKLER PLANS FOR
120 FOX RUN RESIDENCE
 120 FOX RUN
 PORTOLA, CA 96122

STAMP:

DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"
 JOB NO.: 26-6010
 DRAWN BY: DWG NO.:
 BORN ON DATE: 6/23/2026
 FILE: **FP-1**
 SHEET 1 OF 1



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



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