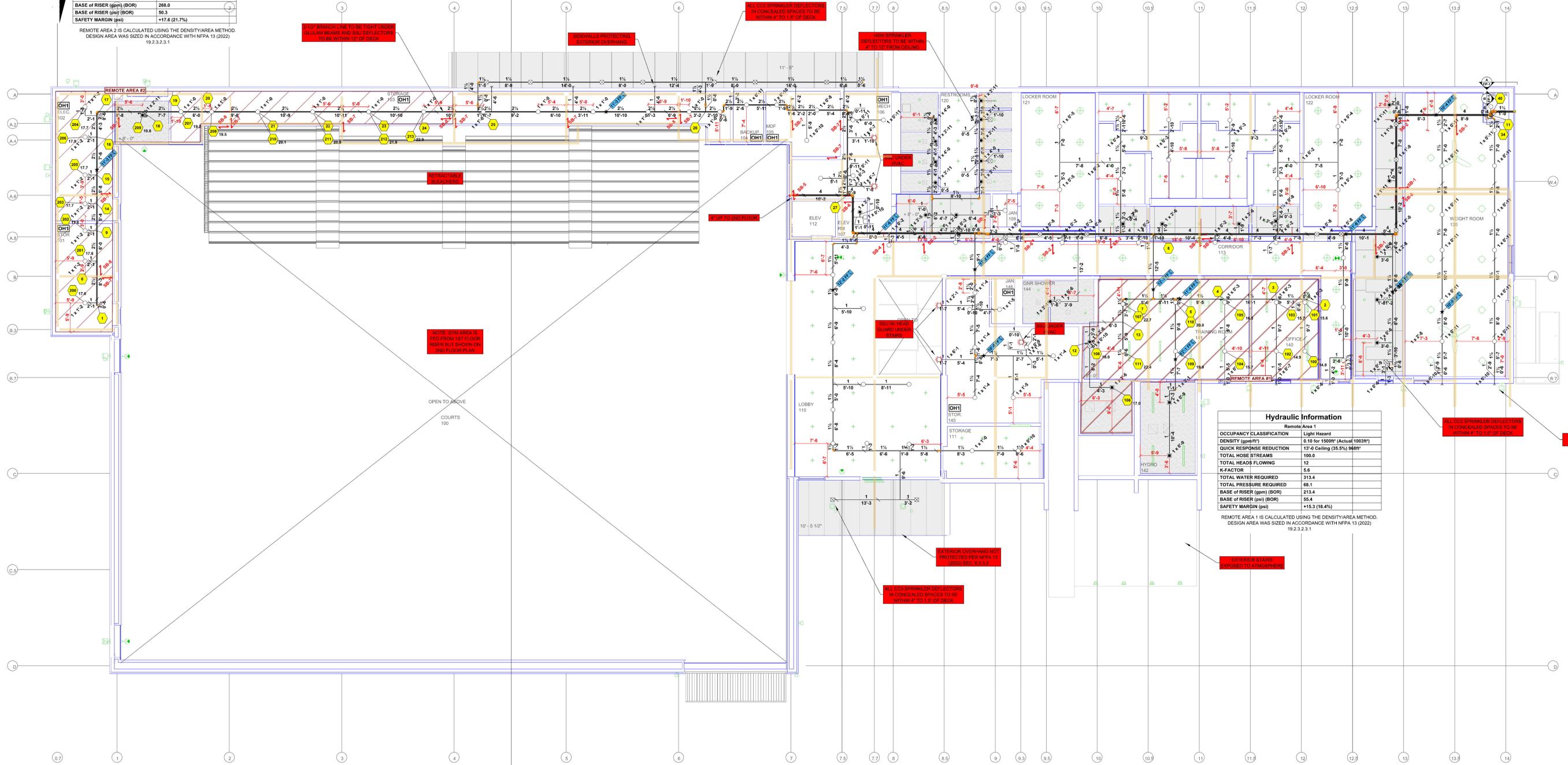


Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (ppm/ft ³)	0.15 for 1500ft ³ (Actual 1020ft ³)
QUICK RESPONSE REDUCTION	13'-0" Ceiling (34.8%) 979ft ³
TOTAL HOSE STREAMS	250.0
TOTAL HEADS FLOWING	14
K-FACTOR	5.6
TOTAL WATER REQUIRED	518.0
TOTAL PRESSURE REQUIRED	63.4
BASE OF RISER (ppm) (BOR)	266.0
BASE OF RISER (psi) (BOR)	50.3
SAFETY MARGIN (psi)	+17.6 (21.7%)

REMOTE AREA 2 IS CALCULATED USING THE DENSITY/AREA METHOD.
DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2022)
19.2.3.2.3.1

1st Floor Sprinkler Legend												
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	MAX SPACING
○	Tyco	TY3131	TY-FRB	98	5.6	Upright	1/2"	Quick	Brass	200°F	N/A	225/130 S.F.
○	Tyco	TY3531	RFH	27	5.6	Concealed Pendant	1/2"	Quick	Brass	200°F	CONC. MATCH CLG	225/130 S.F.
○	Tyco	TY2199	CC3	36	4.3	Upright	1/2"	Quick	Brass	200°F	IN CONC. SPACES	14'x14'
○	Tyco	TY4322	TY-FRL	12	5	Horizontal Sidewall	1/2"	Quick	Brass	165°F	EXT. OVERHANGS	16'x16'
○	Tyco	TY3521	RFH	2	5.6	Horizontal Concealed Sidewall	1/2"	Quick	Brass	212°F	CONC. MATCH CLG	14'x14'
				Total =	175							

GRAY HATCHES DENOTE COMBUSTIBLE CONCEALED SPACE
ALL TO BE PROTECTED BY SSU OR CC SPRINKLERS.



2-1/2" BRANCH LINE TO BE TIGHT UNDER QUILL BEAMS AND SSU DEFLECTORS TO BE WITHIN 12" OF DECK.

SIDEWALLS PROTECTING EXTERIOR OVERHANGS.

ALL CC3 SPRINKLER DEFLECTORS IN CONCEALED SPACES TO BE WITHIN 4' TO 12' OF DECK.

SSU SPRINKLER DEFLECTORS TO BE WITHIN 4' TO 12" FROM CEILING.

NOTE: 2ND AREA 2 FED FROM 1ST FLOOR RISER BUT SHOWN ON 2ND FLOOR PLAN.

OPEN TO ABOVE COURTS 100

EXTERIOR OVERHANG NOT PROTECTED PER NFPA 13 (2022) SEC. 4.2.3.2.

ALL CC3 SPRINKLER DEFLECTORS IN CONCEALED SPACES TO BE WITHIN 4' TO 12' OF DECK.

Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (ppm/ft ³)	0.10 for 1500ft ³ (Actual 1003ft ³)
QUICK RESPONSE REDUCTION	13'-0" Ceiling (35.5%) 968ft ³
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	12
K-FACTOR	5.6
TOTAL WATER REQUIRED	313.4
TOTAL PRESSURE REQUIRED	68.1
BASE OF RISER (ppm) (BOR)	213.4
BASE OF RISER (psi) (BOR)	55.4
SAFETY MARGIN (psi)	+15.3 (18.4%)

REMOTE AREA 1 IS CALCULATED USING THE DENSITY/AREA METHOD.
DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2022)
19.2.3.2.3.1

ALL CC3 SPRINKLER DEFLECTORS IN CONCEALED SPACES TO BE WITHIN 4' TO 12' OF DECK.

SIDEWALLS PROTECTING EXTERIOR OVERHANGS.

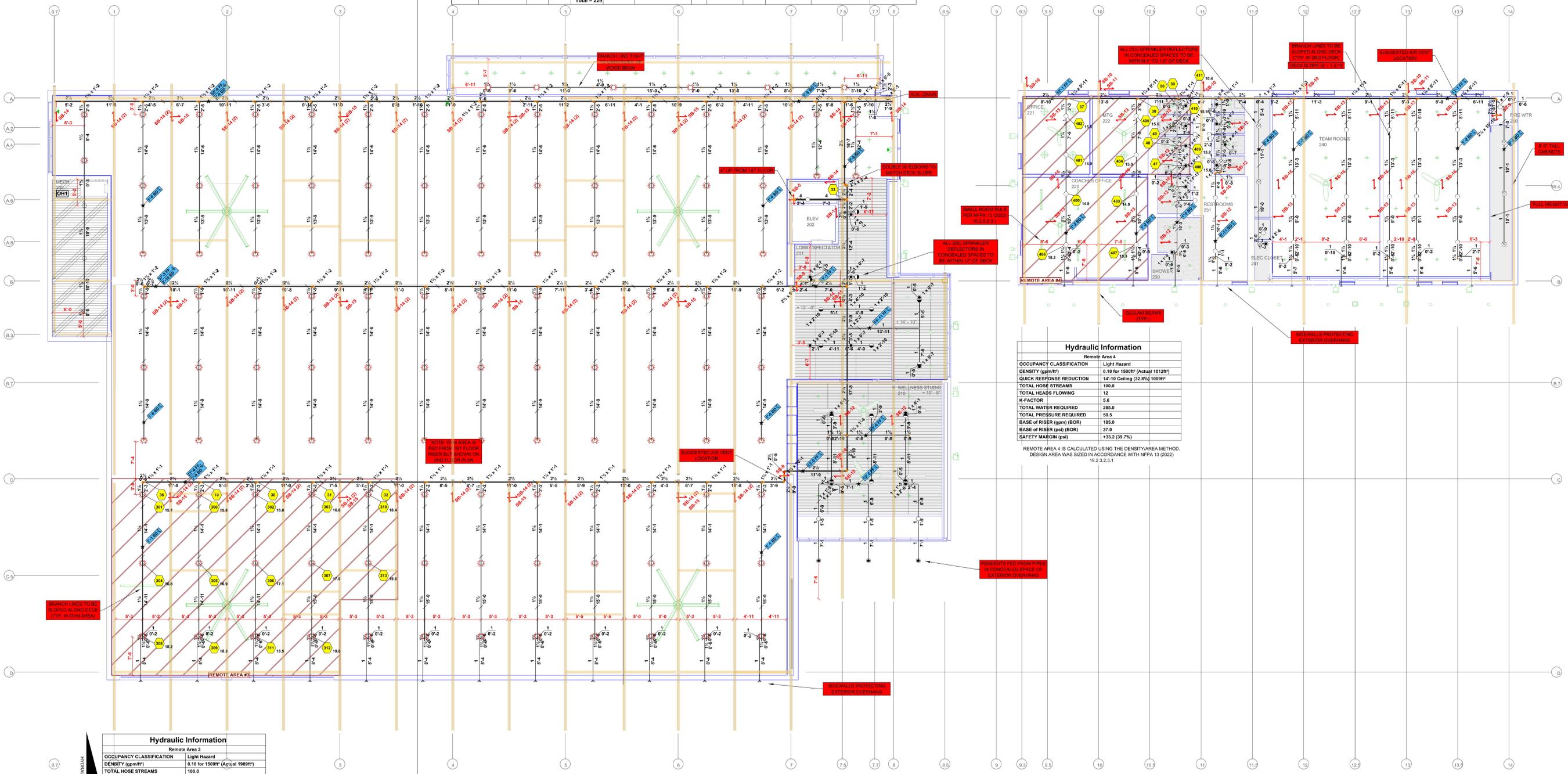
EXTERIOR STAIRS EXPOSED TO ATMOSPHERE.



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

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	Max Spacing
○	Tyco	TY3531	RFH	25	5.6	Concealed Pendant	1/2"	Quick	Brass	200°F	CONC. MATCH CLG	225/130 S.F.
○	Tyco	TY3131	TY-FRB	157	5.6	Upright	1/2"	Quick	Brass	200°F	N/A	225/130 S.F.
○	Tyco	TY2199	CC3	11	4.2	Upright	1/2"	Quick	Brass	200°F	IN CONC. SPACES	14'x14'
○	Tyco	TY3131	TY-FRB	15	5.6	Upright	1/2"	Quick	Brass	200°F	IN CONC. SPACES	15'x15'
○	Tyco	TY4322	TY-FRL	21	8	Horizontal Sidewall	1/2"	Quick	Brass	165°F	EXT. OVERHANGS	16'x16'
				Total = 229								

GRAY HATCHES DENOTE COMBUSTIBLE CONCEALED SPACE ALL TO BE PROTECTED BY SSU OR CC SPRINKLERS.



Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft ²)	0.10 for 1500ft ² (Actual 1012ft ²)
QUICK RESPONSE REDUCTION	14'-10" Ceiling (32.8%) 1008ft ²
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	12
K-FACTOR	5.6
TOTAL WATER REQUIRED	285.0
TOTAL PRESSURE REQUIRED	58.5
BASE OF RISER (gpm) (BOR)	185.0
BASE OF RISER (psi) (BOR)	37.0
SAFETY MARGIN (psi)	+33.2 (39.7%)
REMOTE AREA 4 IS CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2022) 19.2.3.2.1	

Hydraulic Information	
Remote Area 3	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft ²)	0.10 for 1500ft ² (Actual 1989ft ²)
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	14
K-FACTOR	5.6
TOTAL WATER REQUIRED	344.4
TOTAL PRESSURE REQUIRED	73.1
BASE OF RISER (gpm) (BOR)	244.4
BASE OF RISER (psi) (BOR)	61.4
SAFETY MARGIN (psi)	+10.0 (12.0%)
REMOTE AREA 3 IS CALCULATED USING THE DENSITY/AREA METHOD. DESIGN AREA WAS SIZED IN ACCORDANCE WITH NFPA 13 (2022) 19.2.3.2.4	

2ND FLOOR FIRE SPRINKLER PLAN

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



NORTH