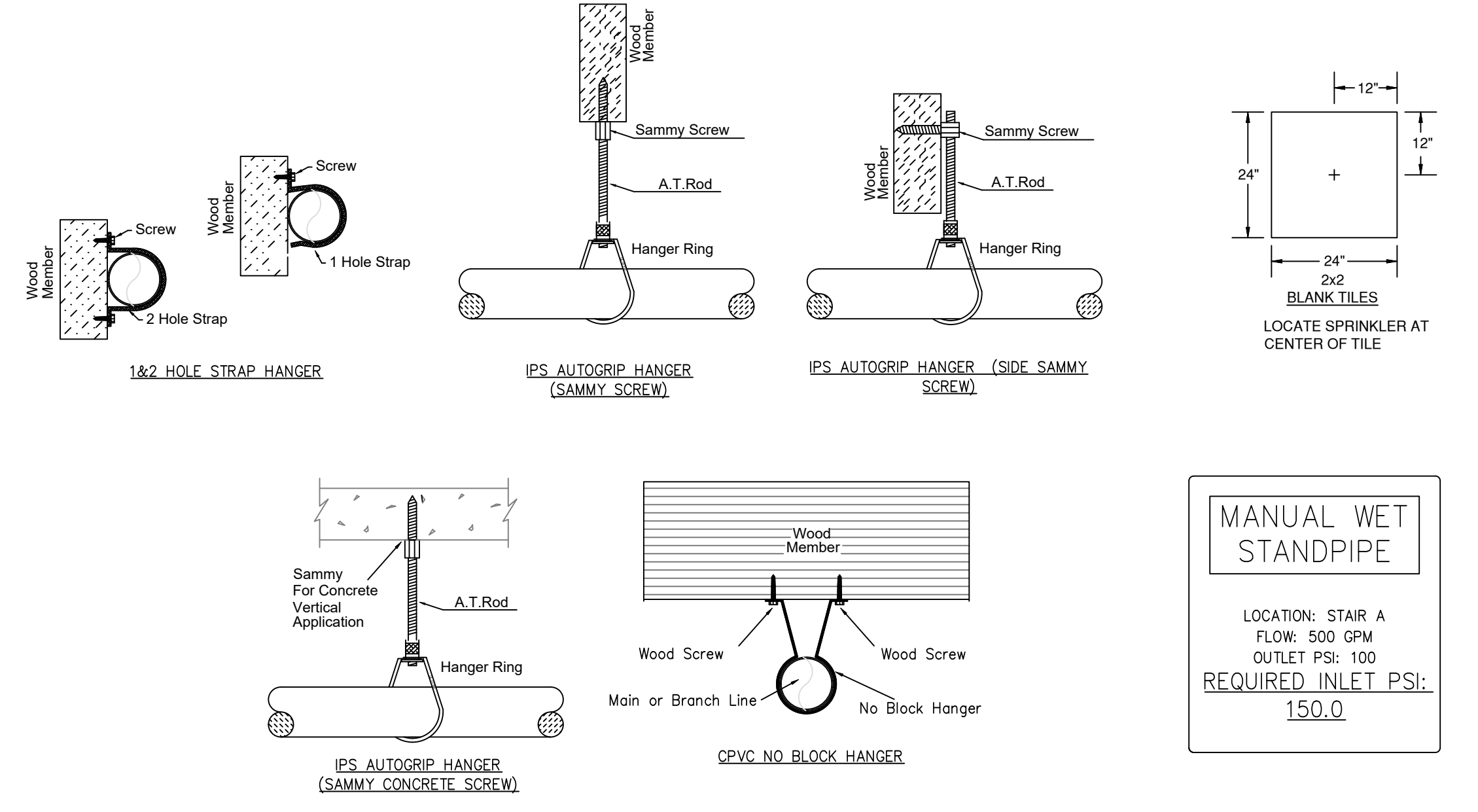


GENERAL NOTES

- MINNESOTA STATE BUILDING CODE (2020) - INTERNATIONAL BUILDING CODE (2018)
 - OCCUPANCY: A-3 ASSEMBLY, B BUSINESS, R-2 MULTIFAMILY, S-2 CLOSED PARKING GARAGE
 - TYPE OF CONSTRUCTION (A. PROTECTED WOOD FRAME)
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)

GARAGE	= 36,603 S.F.	ZONE 1
LEVEL 1	= 36,056 S.F.	ZONE 2
LEVEL 2	= 36,056 S.F.	ZONE 3
LEVEL 3	= 36,056 S.F.	ZONE 4
LEVEL 4	= 36,056 S.F.	ZONE 4
TOTAL	= 180,828 S.F.	
 - INSTALLATION STANDARDS:
 - SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13, NFPA-14 (2016)
- SPRINKLER PIPE TYPES:
 - 1" BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1/2" THROUGH 2" MAIN & BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1" THROUGH 1 1/2" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
 - 1/2" THROUGH 6" MAIN & BRANCH LINES TO BE BLK SCHEDULE 10 PIPING WITH SHORT RADIUS GROOVED FITTINGS
- DESIGN CRITERIA
 - RESIDENTIAL ROOMS, CORRIDORS, LOBBYS, AND SIMILAR AREAS DESIGNED TO LIGHT HAZARD GROUP 1
 - PARKING GARAGE, MECH ROOMS, STORAGE ROOMS, AND SIMILAR AREAS DESIGNED TO ORDINARY HAZARD GROUP 1
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3
 - SPRINKLERS REQUIRED IN ALL BATHROOMS INCLUDING ONES LESS THAN 55 S.F. WITH WALLS AND CEILING OF NONCOMBUSTIBLE AND LIMITED-COMBUSTIBLE MATERIALS WITH A 15-MINUTE THERMAL BARRIER RATING, INCLUDING THE WALLS AND CEILING BEHIND ANY SHOWER OR TUB ENCLOSURE PER NFPA 13 SEC. 8.15.8.1.1
 - SPRINKLERS OMITTED IN LINEN PANTRIES LESS THAN 4 SQ. FT. WITH NO MECH. OR ELECTRICAL EQUIPMENT PER MN FIRE CODE 903.3.1.6.4 AND MN RULE 7011.0093
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - SEE PLAN FOR HANGING REQUIREMENTS
- SYMBOLS USED ON DRAWINGS:
 - (ELEV) PIPE ELEVATION A.F.F.
 - (-12) PIPE ELEVATION BELOW B.O.D.
 - (CHT) ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - (E) HYDRAULIC CALCULATION JUNCTION POINT
 - 8'-0" CEILING HEIGHT
- SCOPE OF WORK:
 - NEW APARTMENT BUILDING INSTALLED BY PER THE 2018 IBC, 2020 MN STATE BUILDING CODE AND 2016 NFPA 13
 - BUILDING WILL BE PROVIDED WITH A STANDPIPE SYSTEM WITH HOSE VALVES AT THE MAIN LANDINGS FOR STAIRS AND ALSO WILL HAVE HOSE VALVES AT HORIZONTAL EXITS
 - STANDPIPE SYSTEM HAS BEEN DESIGNED TO MIFC AMENDMENT (905.2.1)
 - SPRINKLER SYSTEM WILL BE ZONED PER FLOOR
 - RESIDENTIAL FLOORS 3 AND 4 ARE COMBINED INTO ONE ZONE
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016)

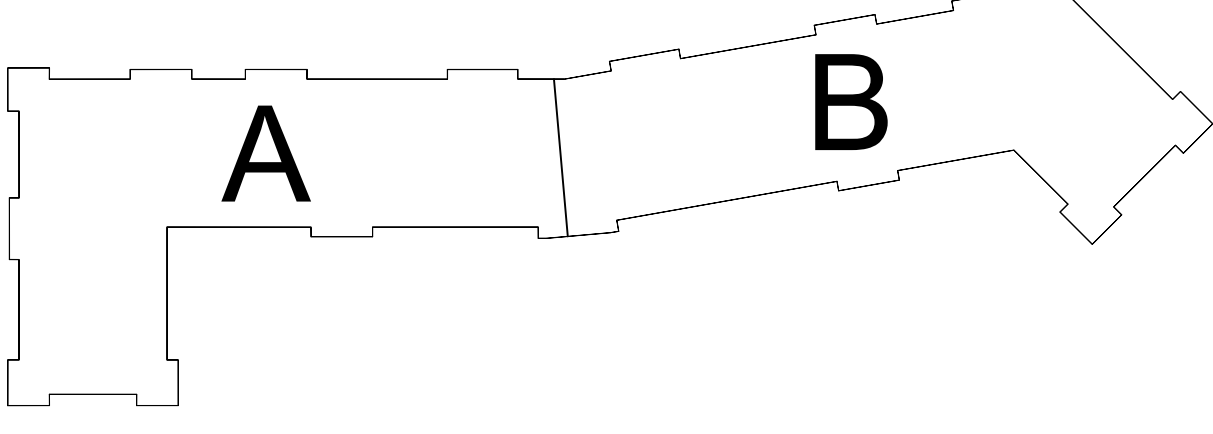
	MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)									
	NOMINAL PIPE SIZE (IN.)									
	3/4"	1"	1 1/2"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	NA	12-0	12-0	12-0	12-0	NA	NA	NA	NA	NA
BLAZEMASTER CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	NA	NA	NA



HANGER DETAILS



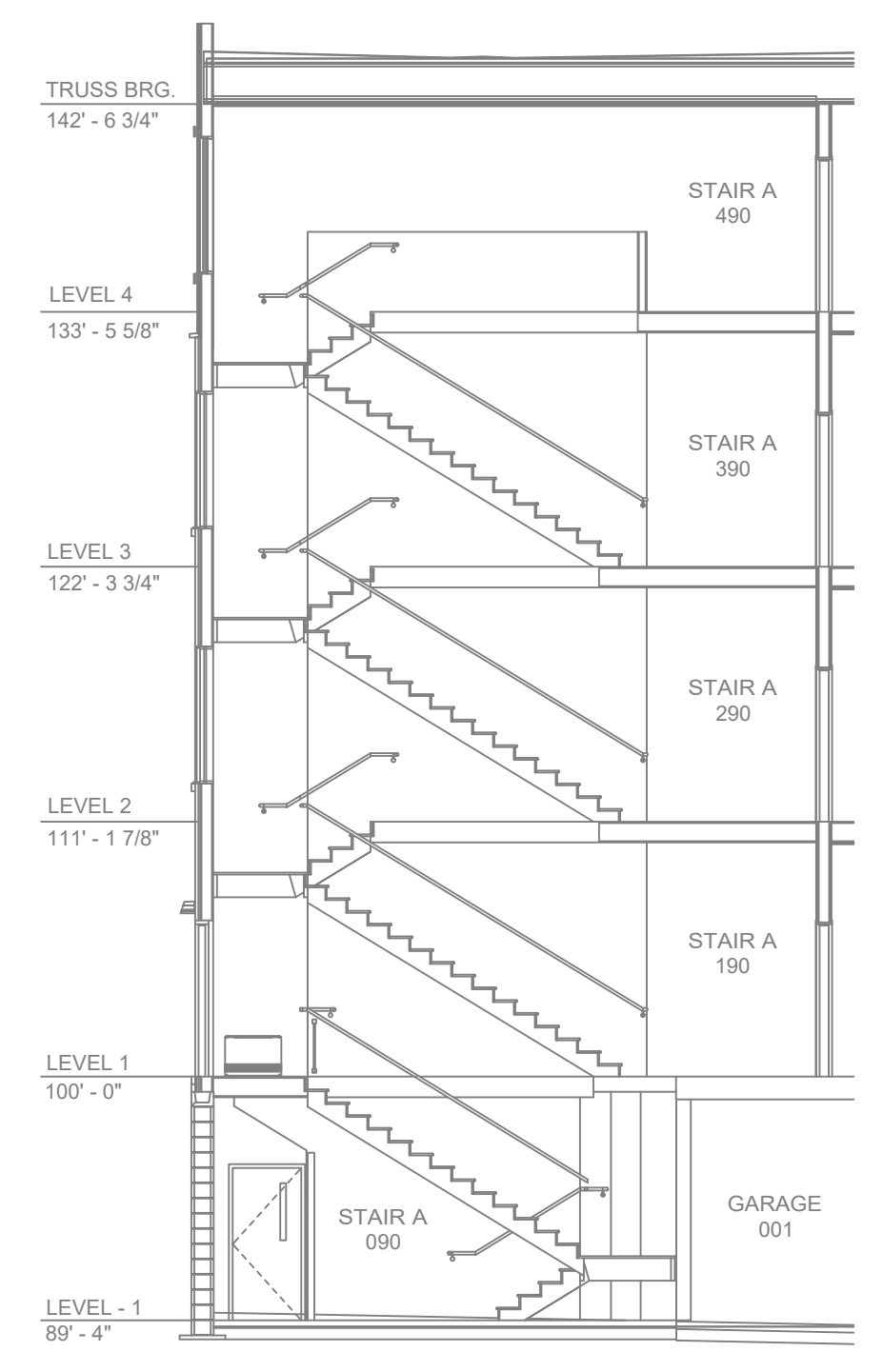
A BUILDING SECTION
SCALE = 1/8" : 1'-0"



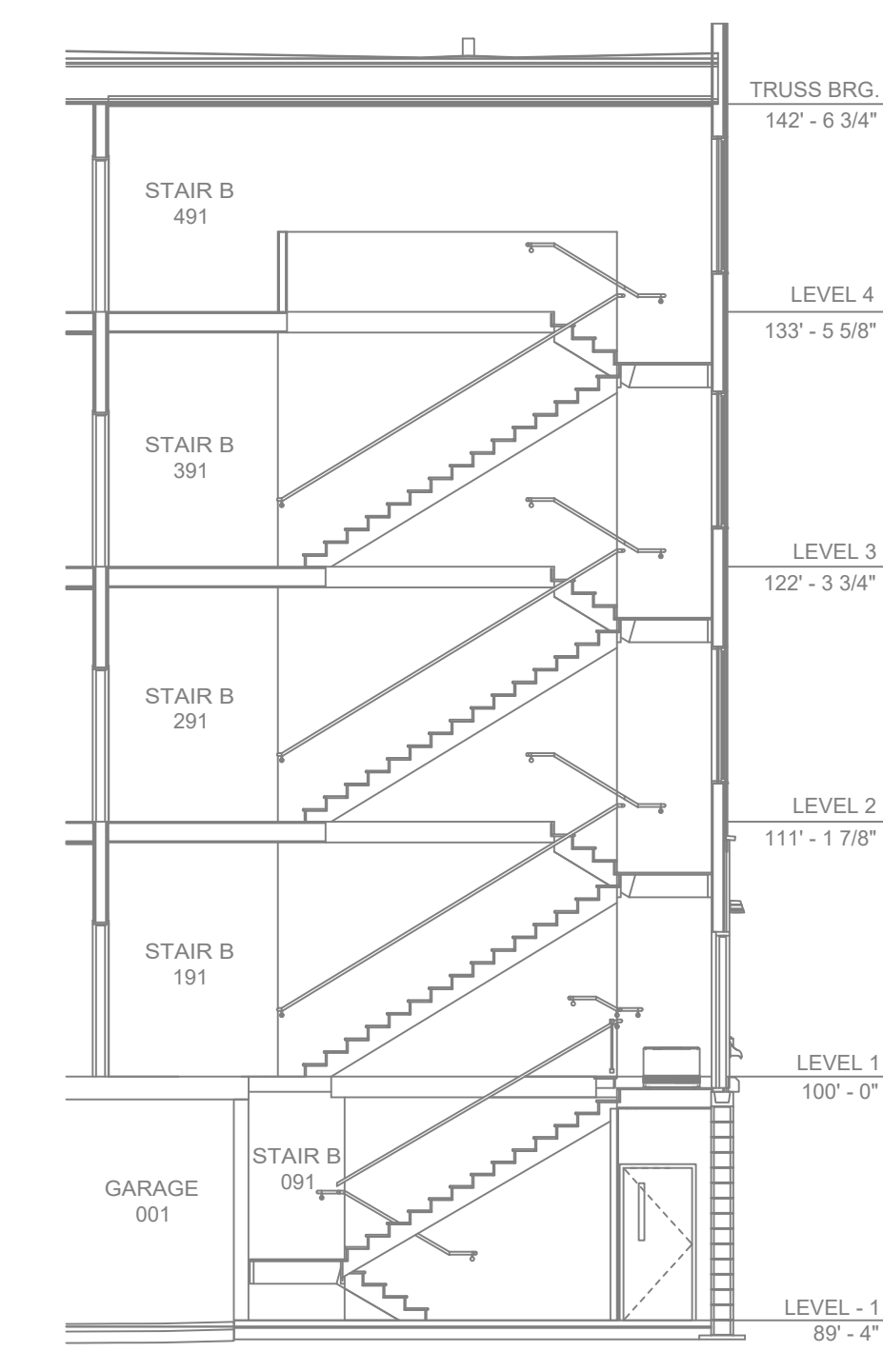
KEYPLAN

PIPE LEGEND

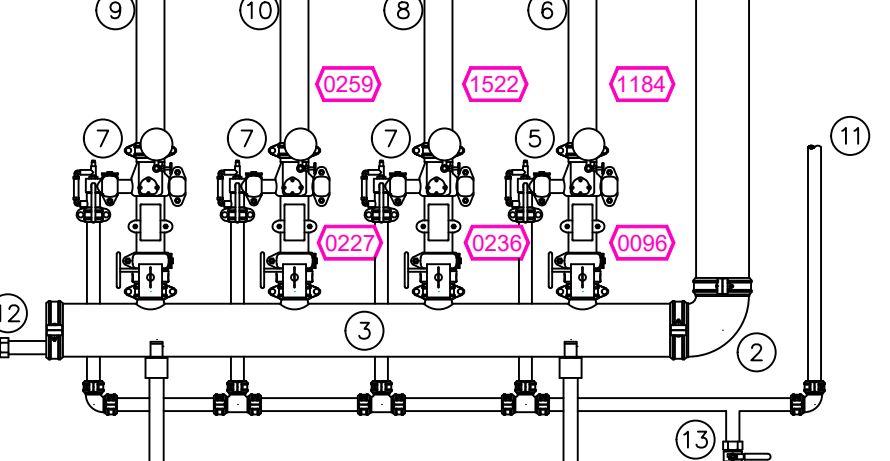
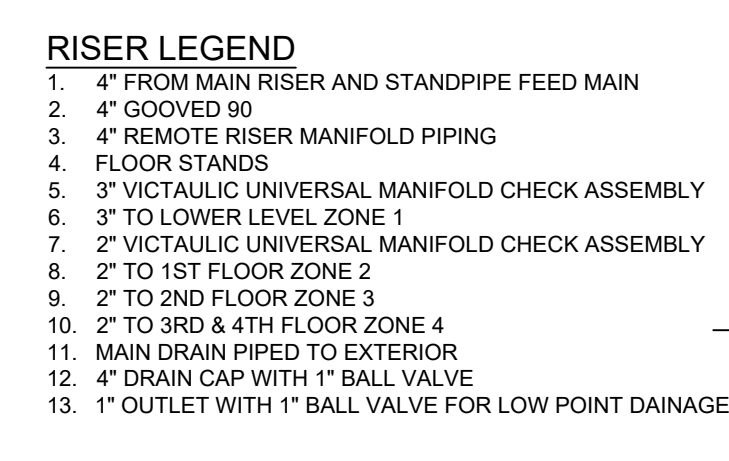
(Solid black line)	BLACK STEEL FIRE SPRINKLER PIPING
(Dashed line)	CPVC FIRE SPRINKLER PIPING
(Red line)	FIRE SPRINKLER STANDPIPE PIPING



B STAIR SECTION
SCALE = 1/4" : 1'-0"

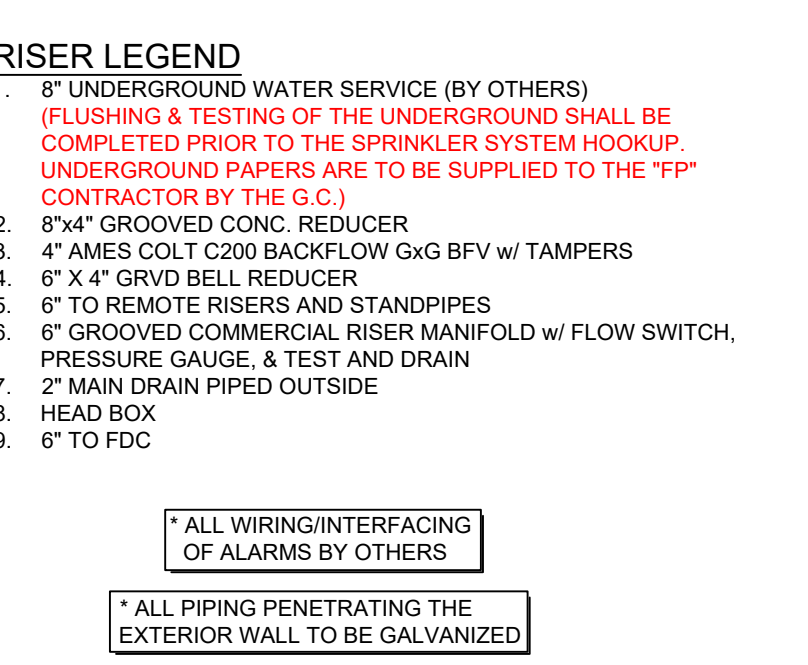
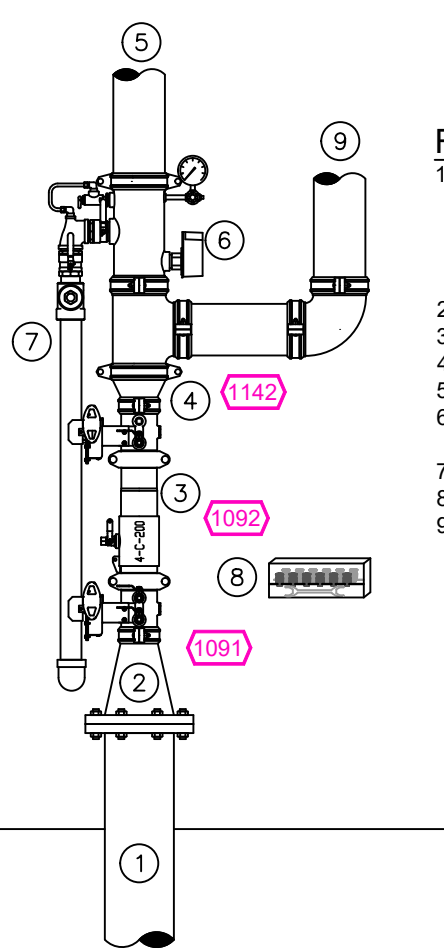


C STAIR SECTION
SCALE = 1/4" : 1'-0"



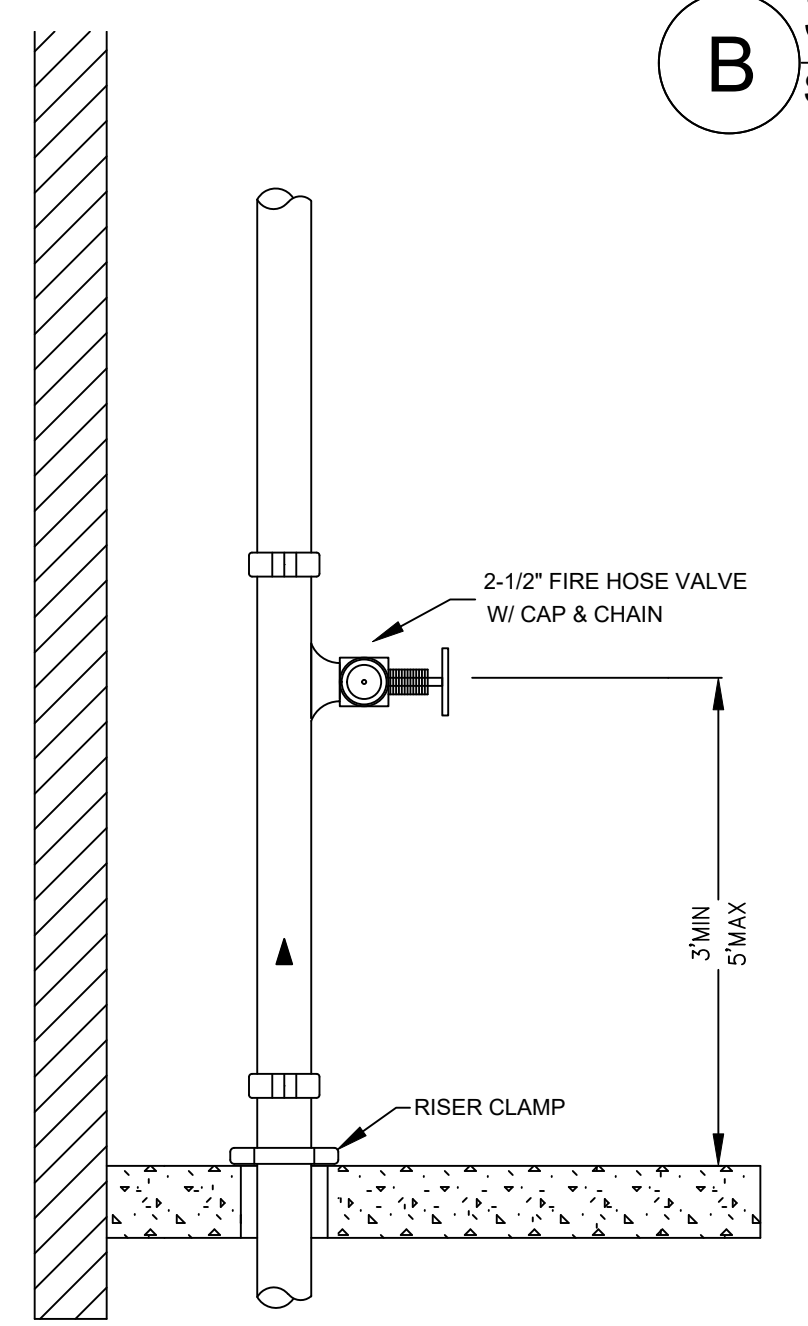
ELV. = 884' - 10"

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



ELV. = 884' - 10"

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



D TYP. STANDPIPE
SCALE = 1/2" : 1'-0"

FIREWALL LOCATIONS NOTE:
STAIR TOWERS AND MECHANICAL CHASES ON ALL LEVELS ARE 2 HOUR RATED ENCLOSURES
ELEVATOR SHAFTS ON ALL LEVELS ARE 2 HOUR RATED ENCLOSURES
TRASH ROOMS AND TRASH CHUTES ON ALL LEVELS ARE 2 HOUR RATED ENCLOSURES
UNIT SEPARATION WALLS FROM ADJACENT UNITS AND HALLWAYS ARE 1 HOUR RATED ENCLOSURES

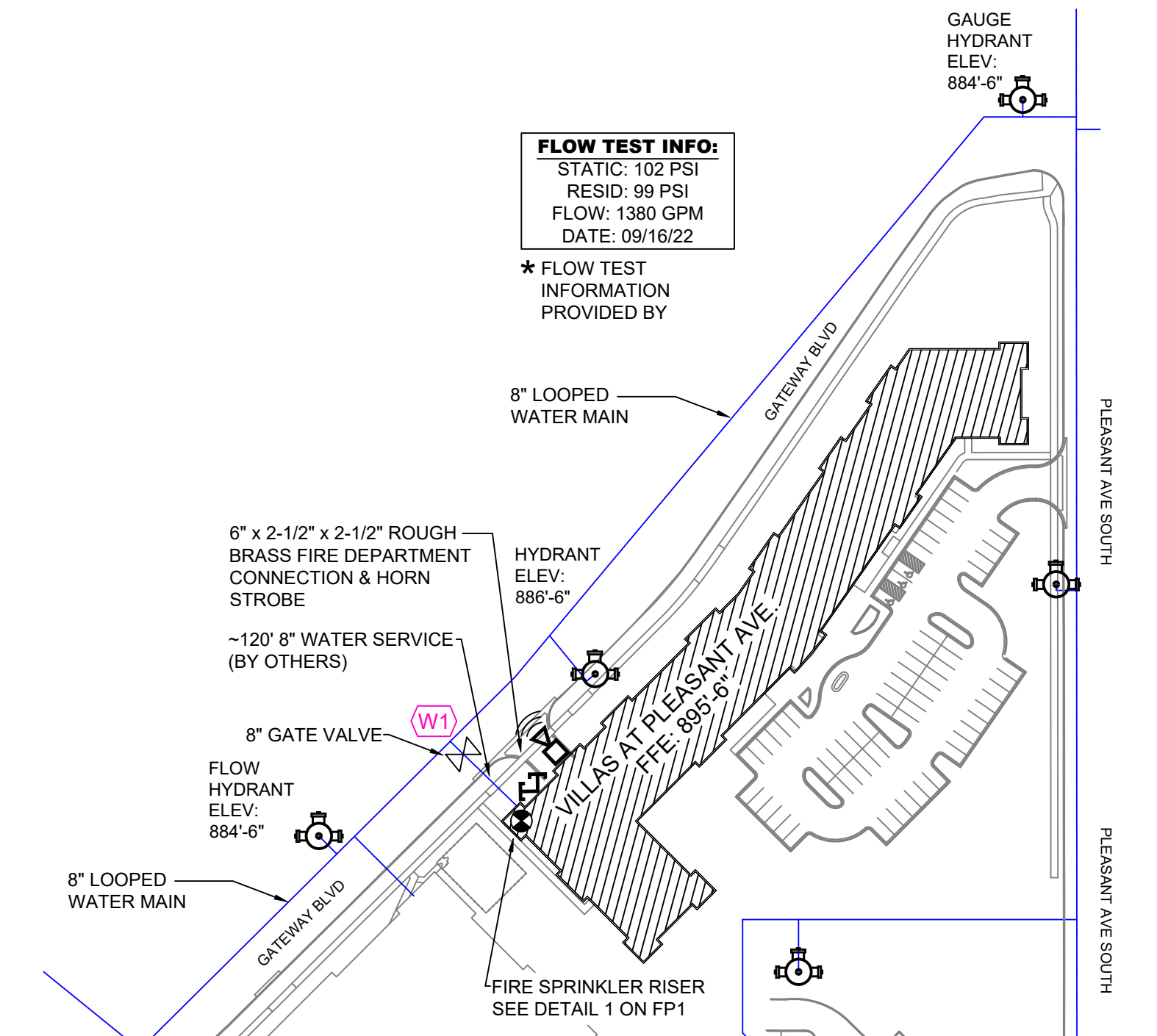
FIREWALL DETAILS

SYM	QTY	POSITION	FINISH	TEMP	K	NPT	SN	MFG	MODEL#	HEAD BOX	MAX SPACINGS UNO	RESPONSE
123	PEND	WHITE	155	4.80	1/2"	TY228	Typo	LFI		20 X 20	QR	
277	PEND	WHITE	200	5.80	1/2"	TY323	Typo	TY-FRB		15 X 15	150 S.F. OH	QR
53	SIDE	WHITE	155	5.80	1/2"	RA1564	RELABL	DH56		28 X 6		QR
102	SIDE	WHITE	200	5.80	1/2"	TY3331	Typo	TY-FRB		14 X 14 LH 10 X 10 OH		QR
334	SIDE	WHITE	135	8.00	3/4"	TY4332	Typo	TY-FRB		14 X 24		QR
334	SIDE	WHITE	155	4.40	1/2"	TY2334	Typo	LFI		16 X 16		QR
127	UPR	BRASS	200	11.20	3/4"	TY1231	Typo	EG-11		20 X 20	SR	
6	UPR	BRASS	200	5.80	1/2"	TY313	Typo	TY-FRB		15 X 15	150 S.F. OH	QR
10	PEND	WHITE	200	11.20	3/4"	TY2327	Typo	EG-11		18 X 18		QR
15.8k.2	SIDE	WHITE	155	5.80	1/2"	VK460	VKING	FREEDOM		16 X 20		QR

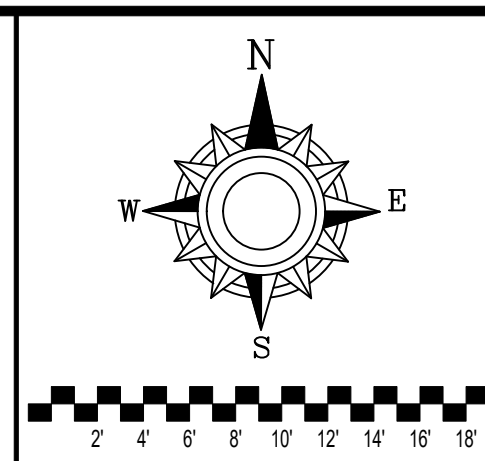
1632 TOTAL HEADS

SPRINKLER HEAD LEGEND

PIPING DETAILS



SITE PLAN
SCALE = 1" = 100'-0"



GENERAL NOTES
1. SYSTEM INSTALLED PER NFPA 13 (2016 EDITION) AND STATE FIRE MARSHAL'S OFFICE APPROVED DRAWINGS.
2. ALL MATERIAL SHALL BE NEW AND MEET U.L. LISTED STANDARDS.
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE SIZE.
4. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
5. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
6. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
7. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
8. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
9. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
10. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
11. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
12. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.
13. ALL WELDING SHALL BE PER NFPA 51 (2015 EDITION) AND APPROVED SHOP DRAWINGS.

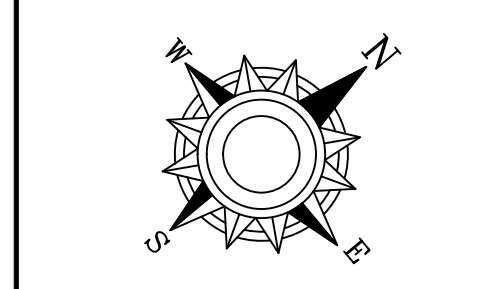
APPROVAL STAMPS

NO.	REVISIONS	DATE

FIRE PROTECTION PLAN

VILLAS AT PLEASANT PLACE
12650 PLEASANT AVE SOUTH
BURNSVILLE, MN 55337

Contract No: C22-108
Drawing Date: 4/3/2023
Scale: 1/8" = 1'-0"
Drawn By: J.V.G.
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. FP 1 of 6

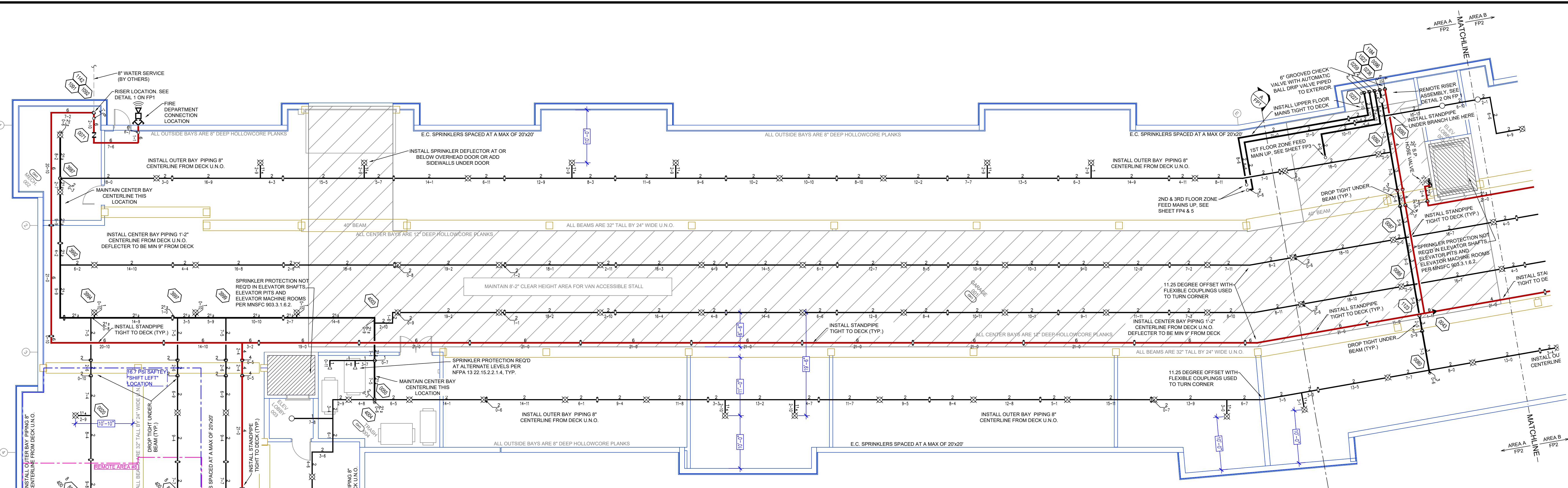


Contract No: C22-108
Drawing Date: 4/3/2023
Scale: 1/8" = 1'-0"
Drawn By: J.V.G.
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. FP 2 of 6

GENERAL NOTES:
1. SYSTEM INSTALLED PER NFPA 13 CODE EDITION AND STATE FIRE MARSHAL'S APPROVAL. ALL PIPING SHALL BE 1" MINIMUM PIPE SIZE UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
3. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
4. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
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11. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.

GENERAL NOTES:
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6. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
7. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
8. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
9. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
10. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
11. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.

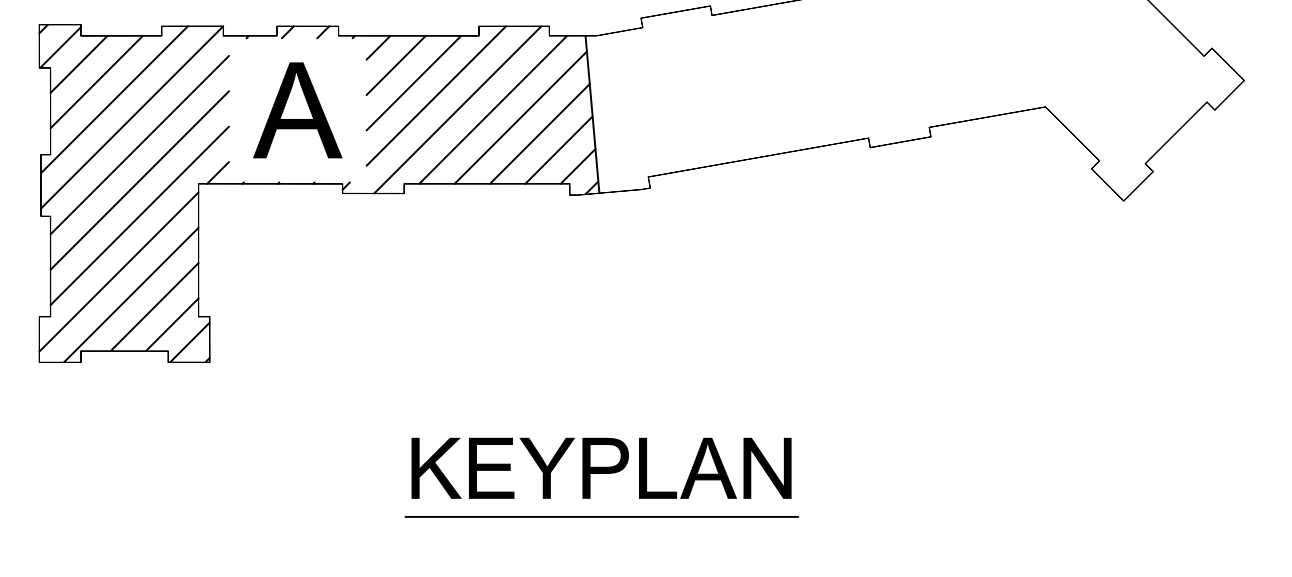
GENERAL NOTES:
1. SYSTEM INSTALLED PER NFPA 13 CODE EDITION AND STATE FIRE MARSHAL'S APPROVAL. ALL PIPING SHALL BE 1" MINIMUM PIPE SIZE UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
3. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
4. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
5. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
6. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
7. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
8. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
9. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
10. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.
11. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WITNESSED BY A LICENSED WELDER.



LOWER LEVEL AREA A FIRE SPRINKLER PLAN

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

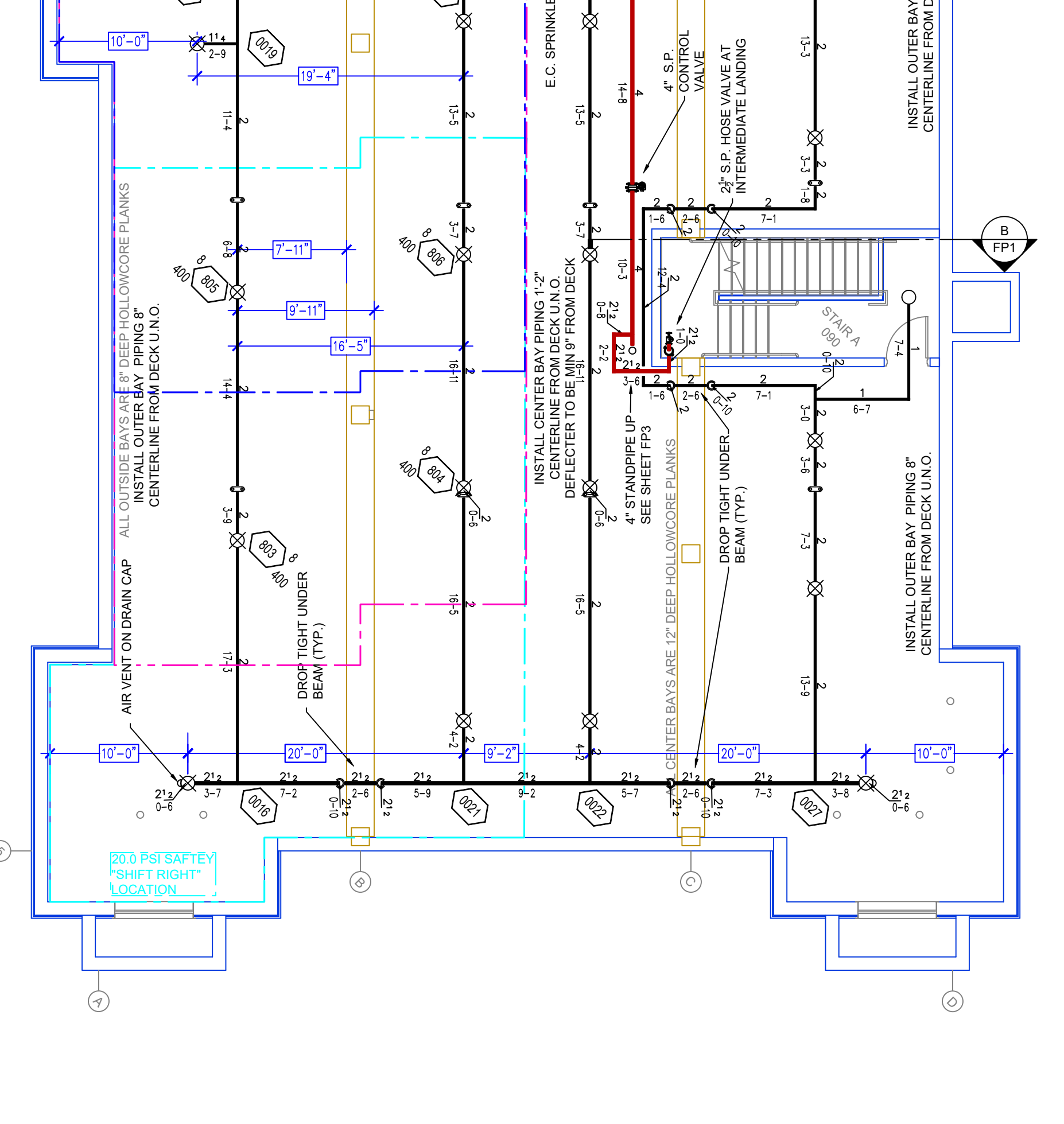
CEILING NOTE:
ALL AREAS THIS FLOOR EXPOSED TO DECK FLOORING SLOPED FOR DRAINAGE. PIPING ELEVATIONS CALLED TO BE FROM DECKING.
AREAS WITH 8" CORE PLANKS IN OUT BAYS @ APPROXIMATELY 9'-8" FROM FLOOR.
AREAS WITH 12" CORE PLANKS AT INNER BAYS @ APPROXIMATELY 7'-4" FROM FLOOR.
ALL SUPPORT BEAMS INDICATED TO BE 32" TALL @ APPROXIMATELY 7'-8" TO BOTTOM OF BEAM.



KEYPLAN

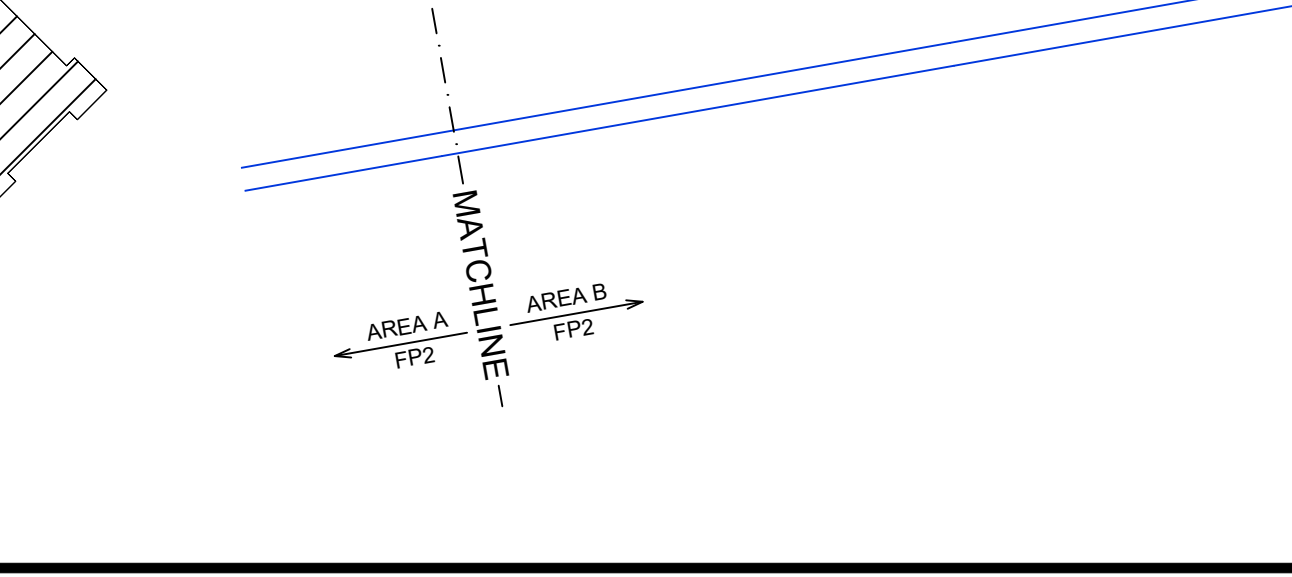
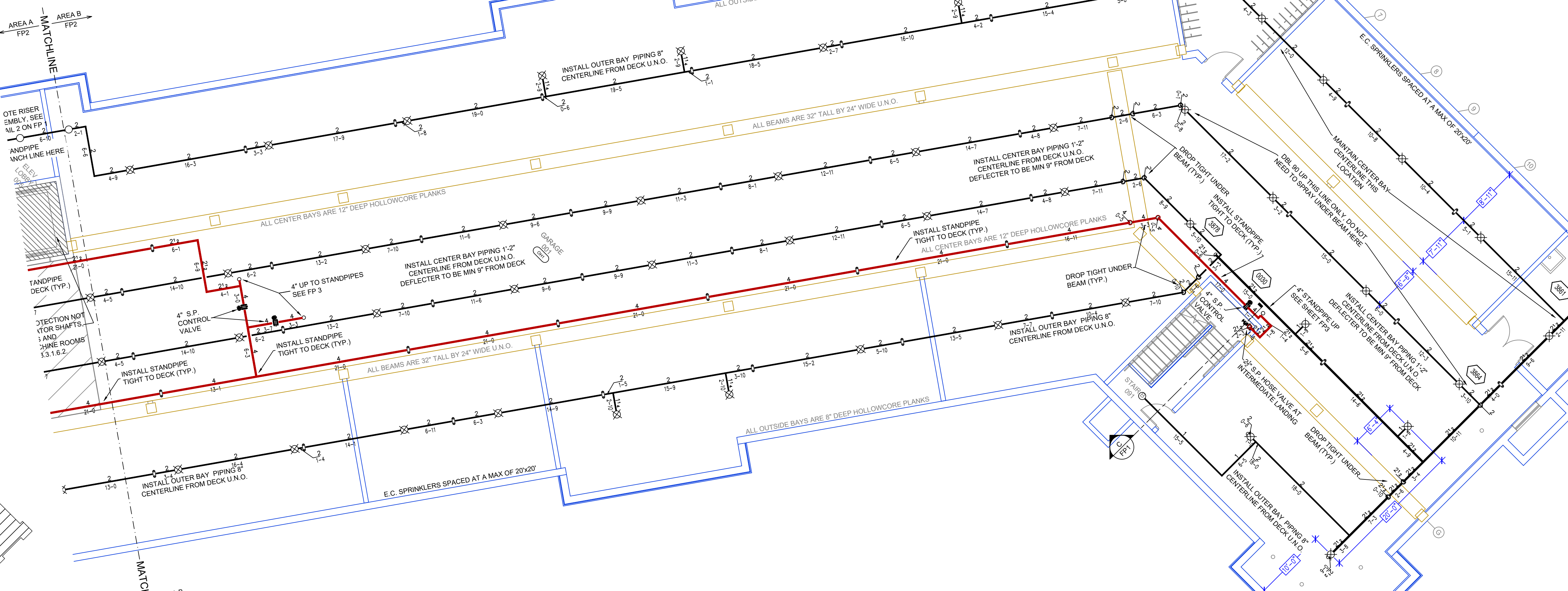
Design Area # 8 HAZARD: OH1
Zone: 1 System Type: WET
Location: SOUTH PARKING
Flowing Outlets: 6
Density: 0.15 Remote Area: 1621
Flow: 621.9 gpm @ 85.1 psi
Calculation Safety: 16.2psi
Includes 250 gpm Hose allowance
GRID PEAKED

CALC PLACARD



LOWER LEVEL AREA B FIRE SPRINKLER PLAN

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

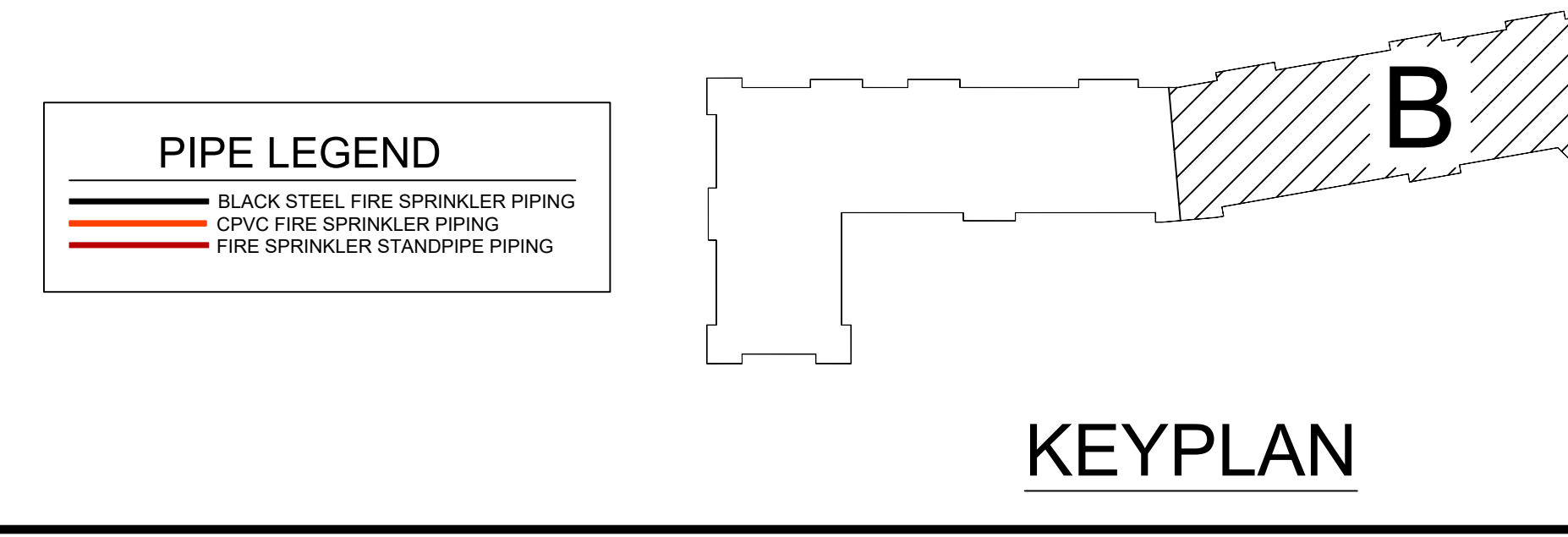


KEYPLAN

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG	MODEL#	HEAD	BOX	MAX SPACING U.N.O.	RESPONSE
●	723	PEND	WHITE	155	4.90	1/2"	TY2236	Tyco	LFII	2		20 X 20	QR
●	277	PEND	WHITE	200	5.60	1/2"	TY2233	Tyco	TY-FRB	2	15 X 15	130 S.F. OH	QR
●	103	SIDE	WHITE	155	5.90	1/2"	TY3331	Reliab	DR-6	2	20 X 8		QR
●	102	SIDE	WHITE	200	5.90	1/2"	TY3331	Tyco	TY-FRB	2	14 X 14 LH	10 X 10 OH	QR
●	8	SIDE	WHITE	135	6.00	3/4"	TY4332	Tyco	TY-FRB	2	14 X 24		QR
●	124	SIDE	WHITE	155	4.40	1/2"	TY2334	Tyco	LFII	2	16 X 16		QR
●	127	UPR	BRASS	200	11.20	3/4"	TY5137	Tyco	EC-11	2	20 X 20		QR
●	15	UPR	BRASS	200	5.60	1/2"	TY913	Tyco	TY-FRB	2	15 X 15	130 S.F. OH	QR
●	10	PEND	WHITE	200	11.20	3/4"	TY2337	Tyco	EC-11	2	18 X 18		QR
●	8	SIDE	WHITE	155	5.90	1/2"	VK460	Viking	FREEDOM	2	16 X 20		QR
1632 TOTAL HEADS													

SPRINKLER HEAD LEGEND

PIPE LEGEND	
	BLACK STEEL FIRE SPRINKLER PIPING
	CPVC FIRE SPRINKLER PIPING
	FIRE SPRINKLER STANDPIPE PIPING



KEYPLAN

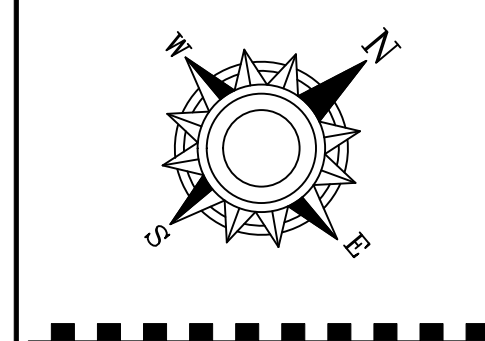
Design Area # 6 HAZARD: RES
 Zone: 3 System Type: WET
 Location: UNIT 303

Flowing Outlets: 4
 Density: 0.10 Remote Area: 639
 Flow: 163.3 gpm @ 79.9 psi
 Calculation Safety: 22.0 psi
 Includes 100 gpm hose allowance

NOTE:
 FOUR MOST DEMANDING RESIDENTIAL
 SPRINKLERS CALCULATED PER NFPA 13
 11.3.1.1.

RESIDENTIAL PENDANT SPRINKLERS
 ARE CALCULATED AT A MAXIMUM
 SPACING OF 20x20

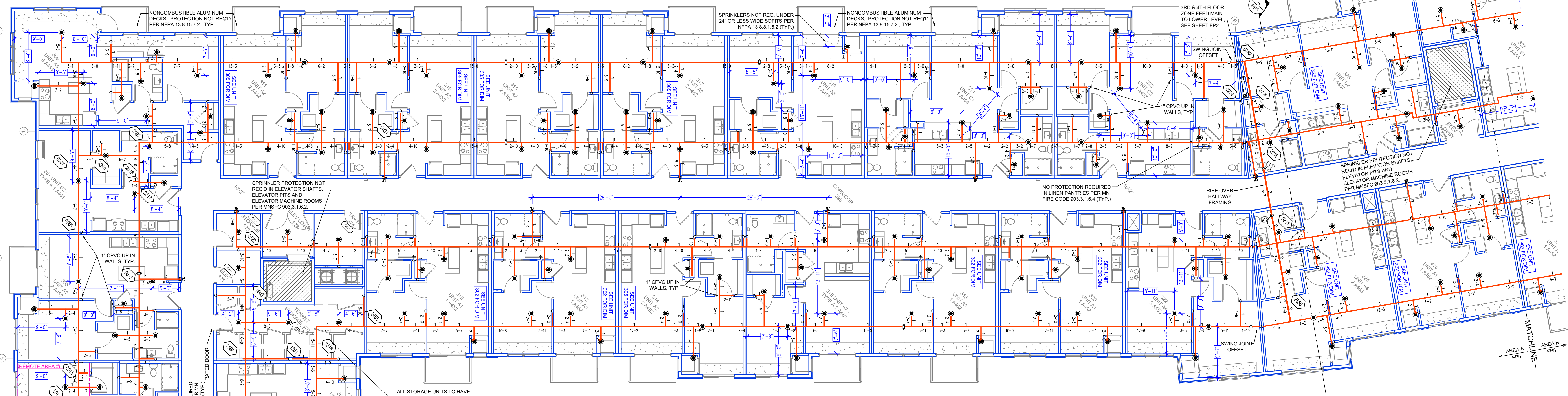
CALCULATION IN COMPLIANCE WITH
 NFPA 13 SECTION 11.3.1.3(3)



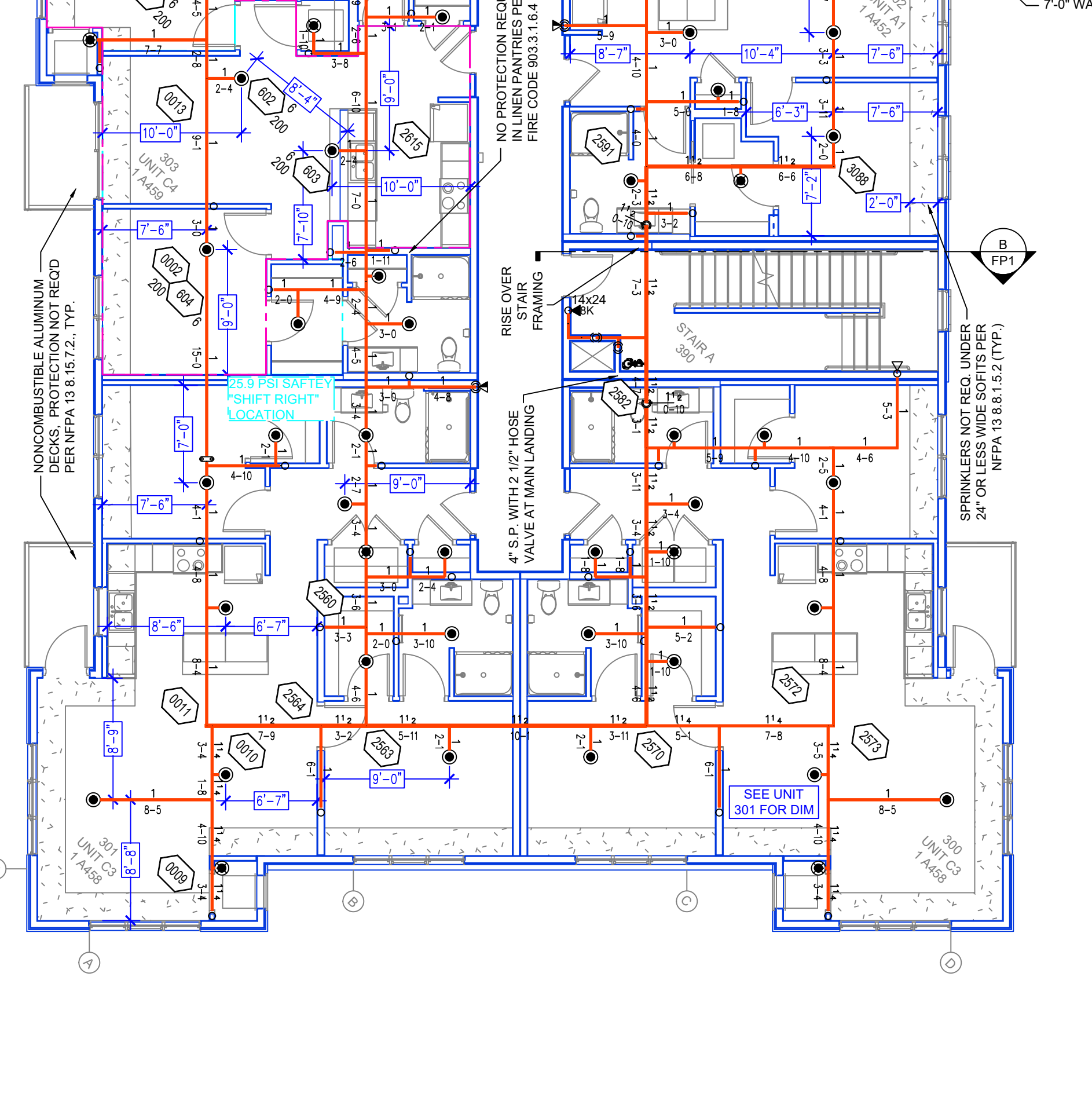
- GENERAL NOTES
1. SYSTEM INSTALLED PER NFPA 13 CODE EDITION AND STATE FIRE MARSHAL'S APPROVAL.
 2. ALL PIPING SHALL BE 1" NOMINAL PIPE UNLESS OTHERWISE NOTED.
 3. ALL WELDING SHALL BE PER NFPA 51B AND SHALL BE WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS.
 4. ALL WELDING PER NFPA 51B IS TO BE DONE WITHOUT APPROVED SHOP DRAWINGS.
 5. CONDUITS USE TO BE PER APPROVED CONTRACTOR AND INSTALLED BY SPRINKLER CONTRACTOR.
 6. HIGH TEMPERATURE HEADS ARE TO BE RELOCATED WHERE REQUIRED.
 7. HANGERS ARE TO BE USED AND INSTALLED PER APPROVED WRECH.
 8. HANGERS ARE TO BE USED AND INSTALLED PER APPROVED WRECH.
 9. HANGERS ARE TO BE USED AND INSTALLED PER APPROVED WRECH.
 10. HANGERS ARE TO BE USED AND INSTALLED PER APPROVED WRECH.
 11. ELECTRICAL WIRING, ALARM DETECTION AND SUPERVISORY BY OWNER.
 12. WET SYSTEM PIPING FROM FREEZING.

Contract No: C22-108
 Drawing Date: 4/3/2023
 Scale: 1/8" = 1'-0"
 Drawn By: J.V.G.
 Approval By: STATE FIRE MARSHAL DIV.
 SHEET NO: FP 5 of 6

VILLAS AT PLEASANT PLACE
 12650 PLEASANT AVE SOUTH
 BURNSVILLE, MN 55337



LEVEL 3 AREA A FIRE SPRINKLER PLAN
 SCALE= 1/8" = 1'-0"



LEVEL 3 AREA B FIRE SPRINKLER PLAN
 SCALE= 1/8" = 1'-0"

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	HEAD BOX	MAX SPACING U.N.D.	RESPONSE
●	723	PEND	WHITE	155	4.90	1/2"	TY2236	Tyco	LFII	2	20 X 20	QR
●	277	PEND	WHITE	200	5.60	1/2"	TY2233	Tyco	TY-FRB	2	15 X 15	130 S.F. OH
●	103	SIDE	WHITE	155	5.60	1/2"	N41664	RELABL.	OHSS	2	20 X 8	QR
●	102	SIDE	WHITE	200	5.60	1/2"	TY2331	Tyco	TY-FRB	2	14 X 14 L4	10 X 10 OH
●	8	SIDE	WHITE	135	6.00	3/4"	TY4332	Tyco	TY-FRB	2	14 X 24	QR
●	124	SIDE	WHITE	155	4.40	1/2"	TY2334	Tyco	LFII	2	16 X 16	QR
●	127	UPR	BRASS	200	11.20	3/4"	TY5137	Tyco	EC-11	2	20 X 20	QR
●	15	UPR	BRASS	200	5.60	1/2"	TY913	Tyco	TY-FRB	2	15 X 15	130 S.F. OH
●	10	PEND	WHITE	200	11.20	3/4"	TY2307	Tyco	EC-11	2	18 X 18	QR
●	184	SIDE	WHITE	155	5.80	1/2"	VK460	VIKING	FREEDOM	2	16 X 20	QR

1632 TOTAL HEADS

SPRINKLER HEAD LEGEND



RESIDENTIAL PENDANT SPRINKLERS IN UNITS SPACED AT A MAX OF 20x20 U.N.D.

CEILING NOTE:
 UNITS & COMM SPACES @ 9'-0" U.N.O.
 UNIT SOFFITS @ 8'-0"
 CORRIDORS @ 10'-2"

PIPING ELEV. NOTE:
 ALL PIPING ON RES. FLOORS SHOWN ABOVE UNIT CEILINGS TO BE INSTALLED AT APPROXIMATELY 10'-0" FROM FLOOR & 1'-0" ABOVE CEILINGS U.N.O.

KEYPLAN

KEYPLAN



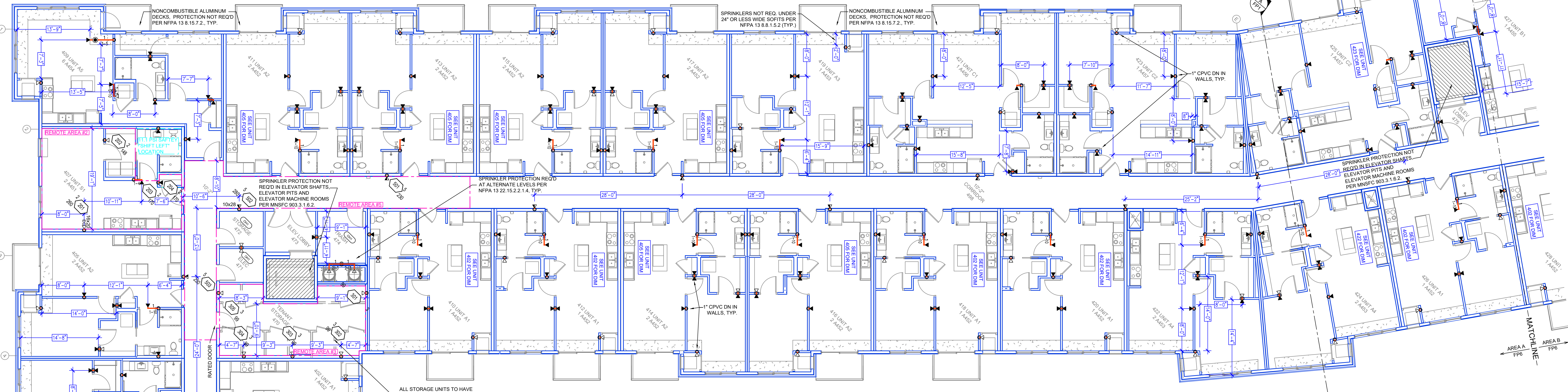
Design Area # 2 HAZARD: RES
 Zone: 4 System Type: WET
 Location: UNIT 407
 Flowing Outlets: 4
 Density: 0.10 Remote Area: 423
 Flow: 190.3 gpm @ 90.8 psi
 Calculation Safety: 11.1 psi
 Includes 100 gpm Hose allowance

Design Area # 5 HAZARD: LIGHT
 Zone: 4 System Type: WET
 Location: 4TH FLOOR SOUTH HALL
 Flowing Outlets: 3
 Density: 0.10 Remote Area: 497
 Flow: 182.4 gpm @ 84.8 psi
 Calculation Safety: 17.2 psi
 Includes 100 gpm Hose allowance

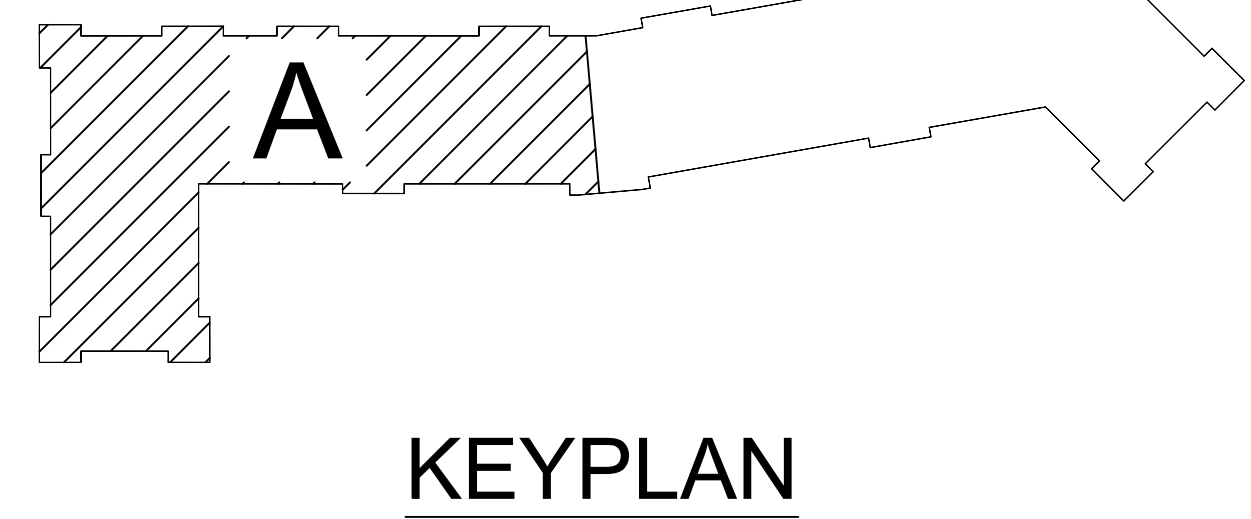
Design Area # 3 HAZARD: OH1
 Zone: 4 System Type: WET
 Location: TENANT STORAGE 470
 Flowing Outlets: 5
 Density: 0.15 Remote Area: 332
 Flow: 324.9 gpm @ 84.8 psi
 Calculation Safety: 37.2 psi
 Includes 250 gpm Hose allowance

Design Area # 1 HAZARD: RES
 Zone: 4 System Type: WET
 Location: UNIT 401
 Flowing Outlets: 4
 Density: 0.10 Remote Area: 330
 Flow: 180.9 gpm @ 90.3 psi
 Calculation Safety: 11.7 psi
 Includes 100 gpm Hose allowance

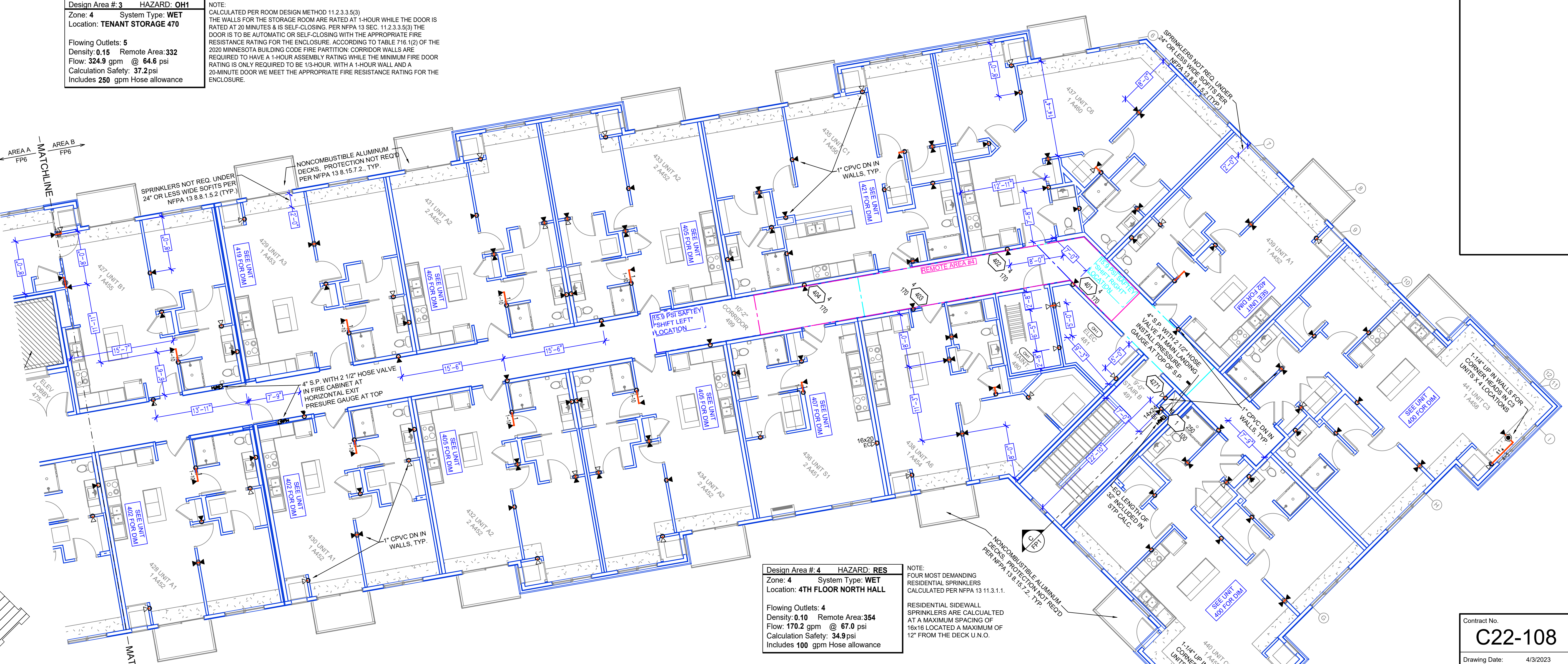
Design Area # 4 HAZARD: RES
 Zone: 4 System Type: WET
 Location: 4TH FLOOR NORTH HALL
 Flowing Outlets: 4
 Density: 0.10 Remote Area: 354
 Flow: 170.2 gpm @ 67.0 psi
 Calculation Safety: 34.9 psi
 Includes 100 gpm Hose allowance



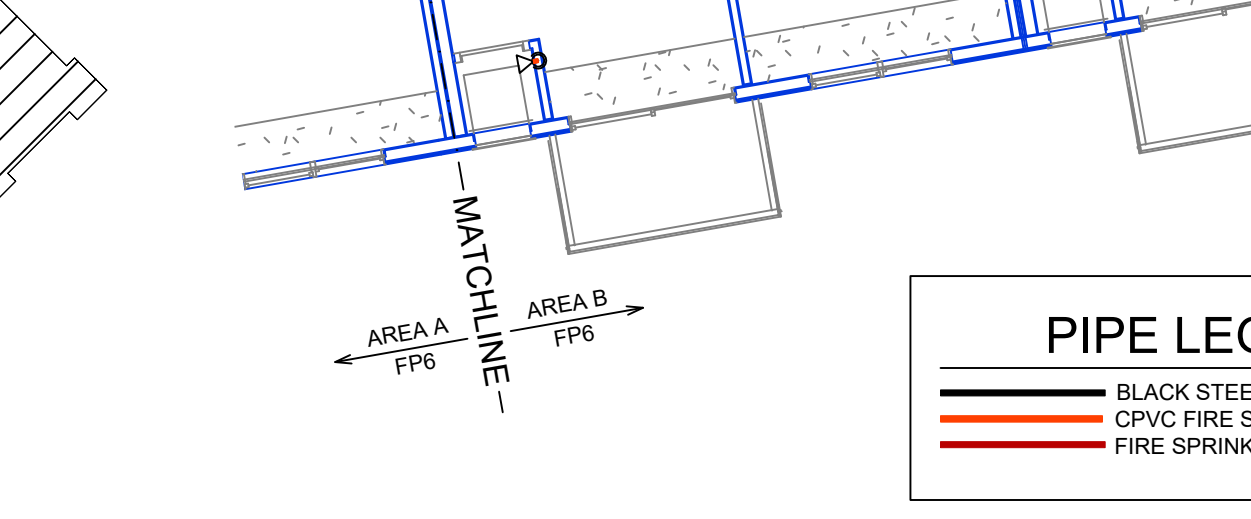
LEVEL 4 AREA A FIRE SPRINKLER PLAN
 SCALE= 1/8" = 1'-0"



KEYPLAN



LEVEL 4 AREA B FIRE SPRINKLER PLAN
 SCALE= 1/8" = 1'-0"



KEYPLAN

SYM	UNIT	POSITION	FINISH	TEMP	K	NPT	SIN	MEG	MODEL#	HEAD BO	MAX SPACING U.N.O.	RESPONSE
●	723	PEND	WHITE	155	4.90	1/2"	TY2236	Tyco	LFH	2	20 X 20	QR
●	277	PEND	WHITE	200	5.60	1/2"	TY2323	Tyco	TY-FRB	2	15 X 15 130 S.F. OH	QR
◀	53	SIDE	WHITE	155	5.60	1/2"	RA1964	RELIAB	DH56	2	28 X 8	QR
◀	102	SIDE	WHITE	200	5.60	1/2"	TY2331	Tyco	TY-FRB	2	14 X 14 LH 10 X 10 OH	QR
◀	136	SIDE	WHITE	155	8.00	3/4"	TY4332	Tyco	TY-FRB	2	14 X 24	QR
◀	134	SIDE	WHITE	155	4.40	1/2"	TY2334	Tyco	LFH	2	16 X 16	QR
◀	127	UPR	BRASS	200	11.20	3/4"	TY5137	Tyco	EC-11	2	20 X 20	SR
◀	6	UPR	BRASS	200	5.60	1/2"	TY3131	Tyco	TY-FRB	2	15 X 15 130 S.F. OH	QR
◀	10	PEND	WHITE	200	11.20	3/4"	TY5237	Tyco	EC-11	2	18 X 18	QR
◀	25	SIDE	WHITE	155	5.80	1/2"	VK460	VIKING	FREEDOM	2	16 X 20	QR

1032 TOTAL HEADS

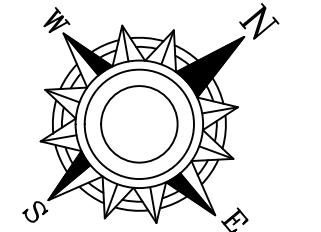
SPRINKLER HEAD LEGEND

RESIDENTIAL SIDEWALL SPRINKLERS IN UNITS SPACED AT A MAX OF 16'16" U.N.O.
 LFL: STANDARD SPRAY TY-FRB & DH-56 SIDEWALL SPRINKLERS SET A 12" MAX FROM DECK
 VIKING VK460 AND TYCO EC TY-FRB TY-4332 SIDEWALL SPRINKLERS INSTALLED FROM 4" TO 9" FROM CEILING

CEILING NOTE: UNITS & COMM SPACES @ 9'-0" U.N.O. UNIT SOFFITS @ 9'-0" CORRIDORS @ 10'-2"

PIPING ELEV. NOTE: ALL PIPING ON TOP FLOOR SHOWN TO BE INSTALLED IN WALLS RISING FROM BELOW. OFFSETS TO SPRINKLER AT THE HEIGHT OF SPRINKLER HEAD ELEVATION NOTE THIS PAGE

PIPE LEGEND
 — BLACK STEEL FIRE SPRINKLER PIPING
 — CPVC FIRE SPRINKLER PIPING
 — FIRE SPRINKLER STANDPIPE PIPING



VILLAS AT PLEASANT PLACE
 12650 PLEASANT AVE SOUTH
 BURNSVILLE, MN 55337

GENERAL NOTES

- SYSTEM INSTALLED PER NFPA 13 CODE EDITION AND STATE FIRE MARSHAL'S APPROVAL.
- ALL PIPING SHALL BE 1" NOMINAL PIPE SIZE UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PER NFPA 51B.
- SHORT RADIUS FITTINGS SHALL BE WELDED WITHOUT GROOVES.
- ALL WELDING PER NFPA 51B IS TO BE PERFORMED BY A WELDER QUALIFIED TO WELD TO THE DESIGN.
- DRAWINGS SHALL BE USED AS A GUIDE TO FABRICATE AND INSTALLATION BY SPRINKLER CONTRACTOR.
- ALL SPRINKLER HEADS SHALL BE FIELD LOCATED UNLESS OTHERWISE NOTED.
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FIRE PROTECTION PLAN

Drawing Title: FIRE PROTECTION PLAN

Contract No: **C22-108**
 Drawing Date: 4/3/2023
 Scale: 1/8" = 1'-0"
 Drawn By: J.V.G.
 Approval By: STATE FIRE MARSHAL DIV.
 SHEET NO: **FP 6 of 6**