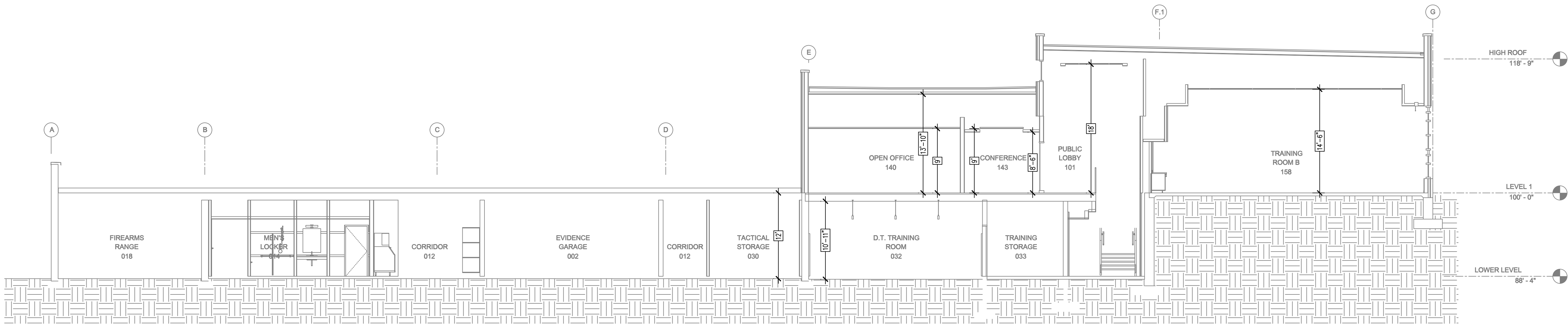
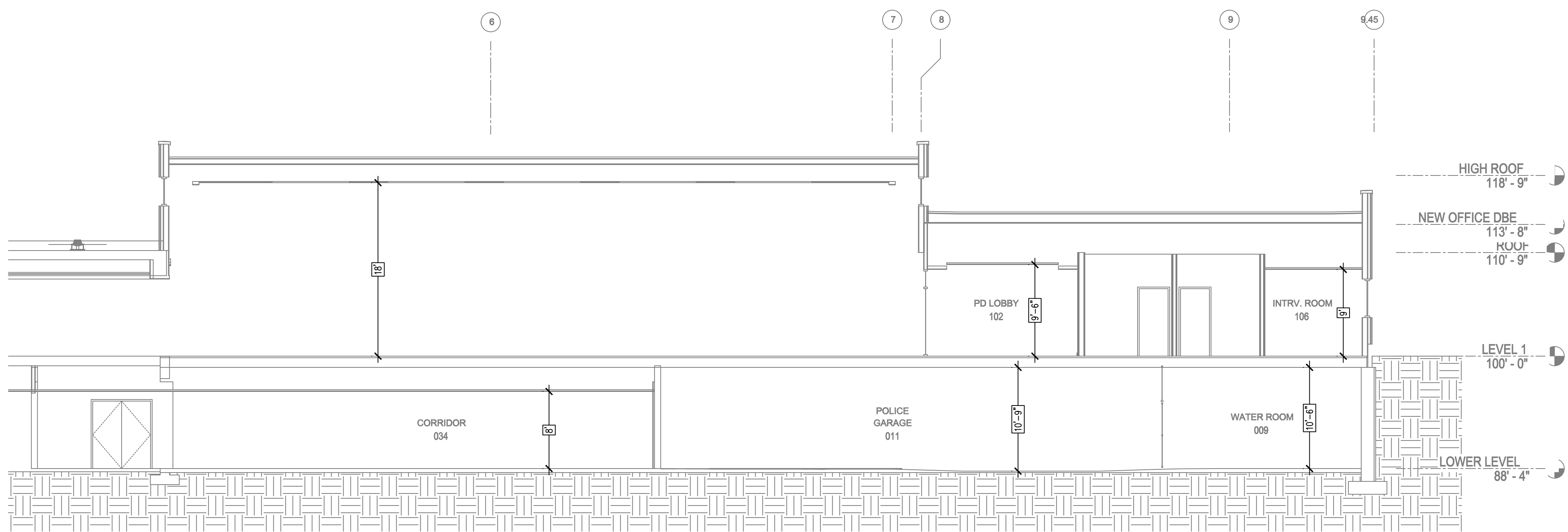




A BUILDING SECTION
SCALE= 1/8" : 1'-0"



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

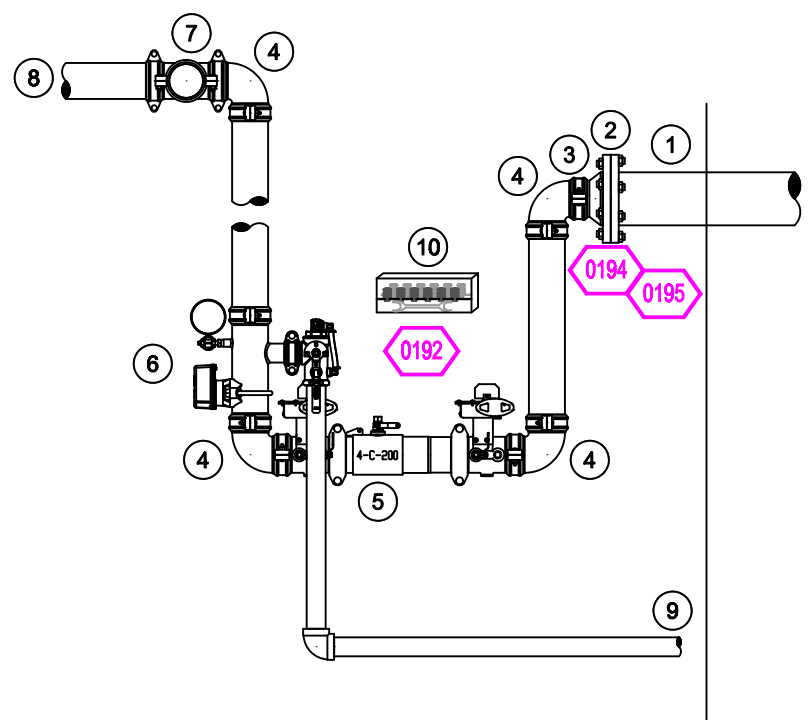
SPRINKLER HEAD LEGEND

SYM	QTY	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	MAX SPACING
124	124	UPRIGHT	CHROME	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A	20'x20' U.O.
143	143	PENDANT	CHROME	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A	14'x15'15' OH:1305QFT
7	7	SIDEWALL	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-ECH	NONE	16'x16'
70	70	UPRIGHT	BRASS	288	11.20	3/4"	V1121	VICTAULIC	FL-ECH	N/A	20'x20' U.O.
2	2	SIDEWALL	BRASS	200	5.60	1/2"	V2710	VICTAULIC	FL-QRSW	NONE	14'x14'
23	23	SPRG	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A	14'x15'15' OH:1305QFT
532	532	SPK TOTAL									

PIPE LEGEND

- BLACK STEEL FIRE SPRINKLER PIPING
- FIRE SPRINKLER FDC PIPING
- EXISTING SPRINKLER PIPE

RISER NOTES

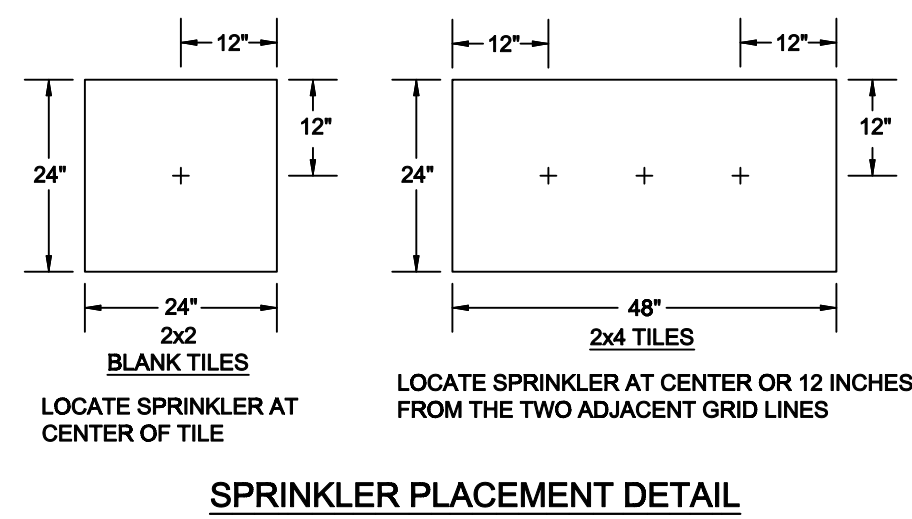


RISER LEGEND

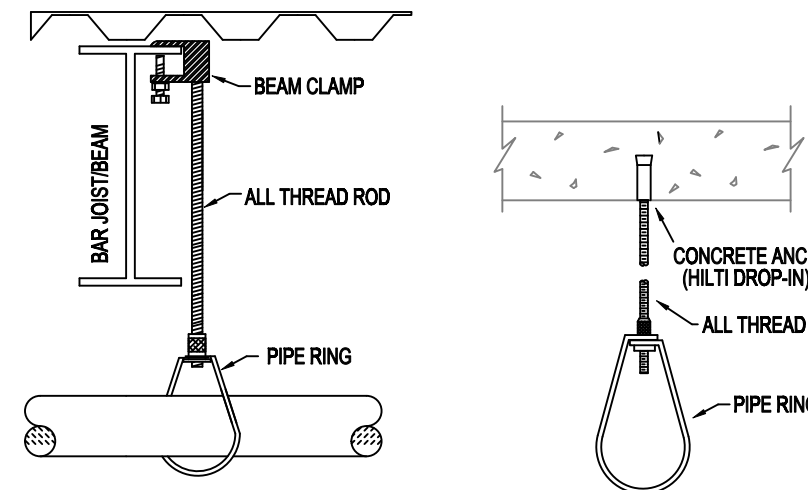
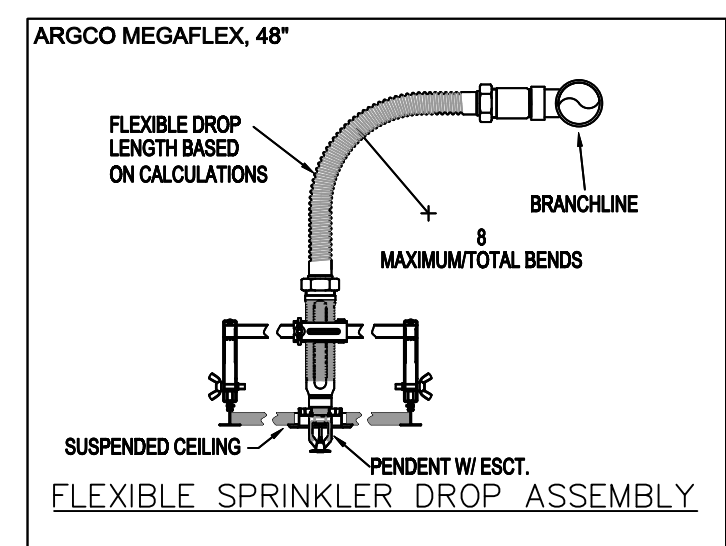
- 6" UNDERGROUND WATER SERVICE (BY OTHERS)
- FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE "PP" CONTRACTOR BY THE G.C.
- 6" FLANGED/GROOVED ADAPTOR
- 6" GROOVED CONCENTRIC REDUCER
- 4" GROOVED 90
- 4" AMES COLT C200 BACKFLOW QVG BFTV W/ TAMPERS
- 4" GROOVED COMMERCIAL RISER MANIFOLD W/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN W/ PRV
- 4" GROOVED TEE TO SYSTEM
- 4" TO SYSTEM
- 2" MAIN DRAIN PIPED TO OUTSIDE
- HEAD BOX AND SPARE HEAD WRENCH

RISER DETAIL

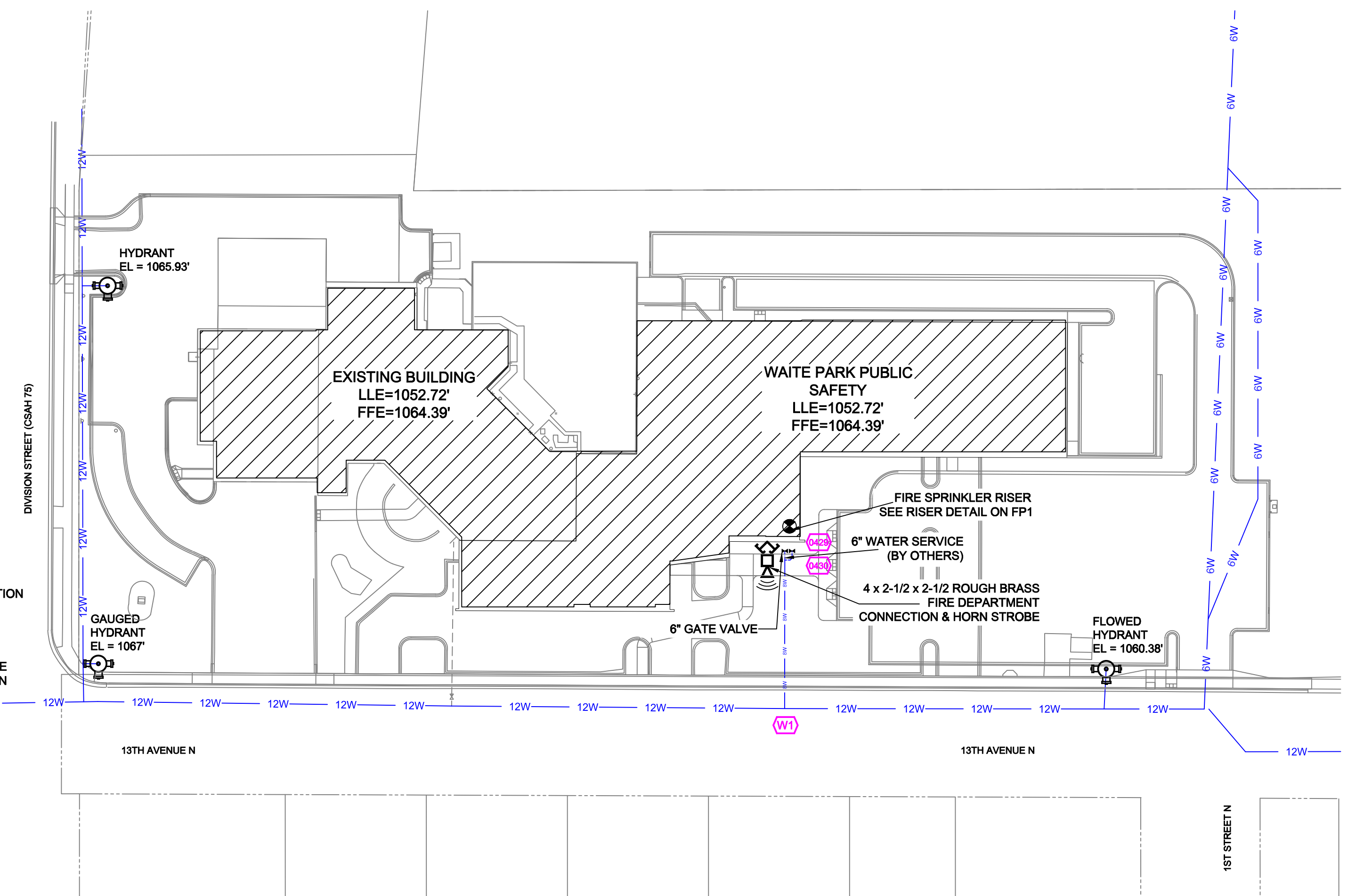
SCALE= 1/2" : 1'-0"



SPRINKLER PLACEMENT DETAIL



NFPA 13 STEEL PIPE HANGER SPACING (EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE Inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"



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

- GENERAL NOTES**
- MINNESOTA BUILDING CODE (2020)
 - OCCUPANCY: A-3, B, S-2
 - TYPE OF CONSTRUCTION: V-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
 - LOWER LEVEL = 42,856 S.F.
 - 1ST FLOOR = 35,143 S.F.
 - TOTAL = 78,000 S.F.
 - INSTALLATION STANDARDS: SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13 (2016)
 - SPRINKLER PIPE TYPES:
 - WET:
 - 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
 - 1 1/2" THROUGH 4" MAIN & BRANCH LINES TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
 - MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10 PIPING
 - DESIGN CRITERIA:
 - LIGHT HAZARD AREAS: OFFICES, RESTROOMS, LOBBIES, TRAINING ROOMS, CORRIDORS DESIGNED TO DELIVER 0.10 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
 - ORDINARY HAZARD GROUP 1 AREAS: PARKING GARAGE, APPARATUS BAYS, ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, ARMORY, EVIDENCE ROOMS DESIGNED TO DELIVER 0.18 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3
 - 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 REQ.
 - SYMBOLS USED ON DRAWINGS:
 - PIPE ELEVATION A.F.F.
 - PIPE ELEVATION BELOW B.O.D.
 - ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - HYDRAULIC CALCULATION JUNCTION POINT
 - CEILING HEIGHT
 - SCOPE OF WORK:
 - THIS PROJECT CONSISTS OF AN ADDITION AND RENOVATIONS TO AN EXISTING BUILDING. A SINGLE WET FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED TO PROVIDE COVERAGE THROUGHOUT. THE MAJORITY OF THE EXISTING BUILDING IS UNDERGOING A RENOVATION, AND THE EXISTING SPRINKLER SYSTEM IS TO BE DEMOLISHED AND REMOVED IN THESE AREAS. A SMALL MINORITY OF THE ROOMS IN THE EXISTING BUILDING ARE NOT BEING RENOVATED, AND THE EXISTING SPRINKLER HEADS AND PIPING ARE TO REMAIN AS-IS IN THESE AREAS. OCCUPANCY CLASSIFICATIONS HAVE NOT CHANGED FROM THE ORIGINAL DESIGN, AND FEED MAINS HAVE BEEN SIZED AND ROUTED TO BE HYDRAULICALLY EQUAL TO OR BETTER THAN ORIGINAL. SEE HATCHED AREAS ON THESE PLANS.
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016)

GENERAL NOTES

- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
- ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
- MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
- ALL SCH-10 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
- ALL WELDING PER NFPA-554(2)
- NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
- ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
- ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
- HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
- PROVIDE ON SPARE HEAD CABINET W/ HEADS & 1 HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND I.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

NO	REVISIONS	DATE	APPROVAL STAMPS

Contract No. **C25-59**

Drawing Date: 01/29/26

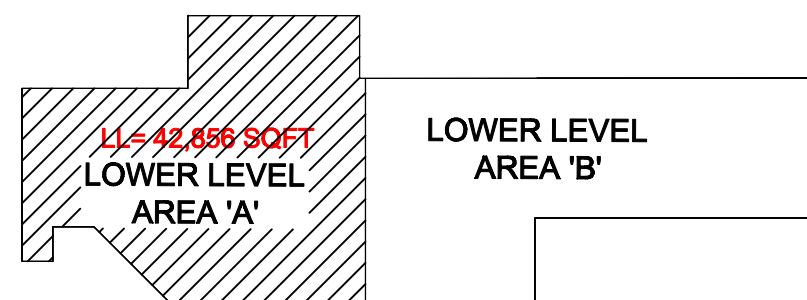
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Drawn By: NR

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. **FP 1 of 5**

WAITE PARK PUBLIC SAFETY
19 13TH AVE NORTH
WAITE PARK, MN 56387



KEY PLAN

Design Area #2 HAZARD: Light
Zone: 1 System Type: Wet
Location: Range Storage
Women's Locker
Flowing Outlets: 13
Density: 0.1 Remote Area: 984
Flow: 317.9 gpm @ 33.1 psi
Calculation Safety: 26.5 psi
Includes 100 gpm hose allowance
NOTE: 1500 S.F. REDUCED BY 40% TO 900 S.F. PER NFPA-13 FIG. 11.2.3.3.1 DUE TO THE USE OF QUICK RESPONSE SPRINKLERS AND A 9'-0" CEILING HEIGHT.

COVERAGE PROVIDED ON UPPER LEVEL UNDER THE STAIRS IS A NONCOMBUSTIBLE CONCEALED SPACE. NO COVERAGE PER NFPA 13 8.15.3.2.3.1

NO WORK

ELEC 005 (OH)

NO WORK

STAIR E

NO WORK

3" RISE TO LEVEL 1

PHYSICAL CONDITIONING 057

COVERAGE ABOVE AND BELOW DUCT

TIE INTO EXISTING BRANCH LINE

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COVERAGE PROVIDED ON UPPER LEVEL UNDER THE STAIRS IS A NONCOMBUSTIBLE CONCEALED SPACE. NO COVERAGE PER NFPA 13 8.15.3.2.3.1

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ROOM SPECS HAVE NOT CHANGED FROM ORIGINAL DESIGN. EXISTING PIPE, HEADS, AND FITTINGS TO REMAIN. TYPICAL FOR HATCHED ROOMS THAT ARE NOTED AS NO WORK.

NO WORK

DASHED LINE INDICATES AREA OF NO WORK

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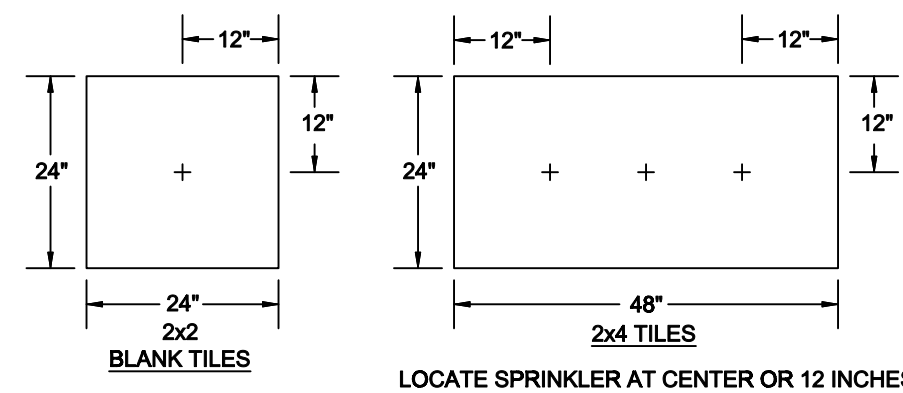
NO WORK

NO WORK

PIPE LEGEND	
—	BLACK STEEL FIRE SPRINKLER PIPING
---	FIRE SPRINKLER FDC PIPING
---	EXISTING SPRINKLER PIPE

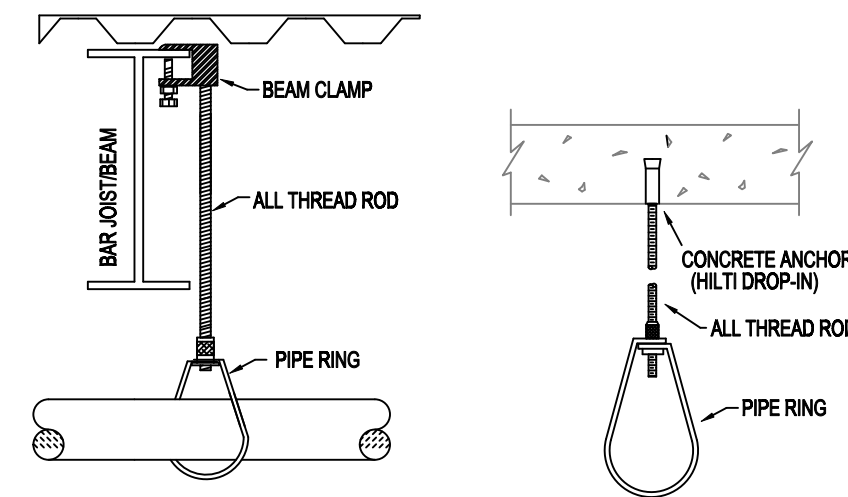
SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ES/OUT/CHON	MAX SPACING
83	PENDING	CHROME	200	11.20	34"	V3412	VICTAULIC	FL-ECLH	RECESSED		20X20 U.N.O.
124	UPRIGHT	BRASS	200	5.80	1/2"	V2704	VICTAULIC	FL-QR	N/A	LH-15x15 OH-130SGPT	
243	PENDING	CHROME	200	5.80	1/2"	V2706	VICTAULIC	FL-QR	RECESSED		LH-15x15 OH-130SGPT
7	SIDEWALL	BRASS	200	5.80	1/2"	V2708	VICTAULIC	FL-EGLH	NONE	18x18	
70	UPRIGHT	BRASS	288	11.20	34"	V1121	VICTAULIC	FL-EGLH	N/A	20X20 U.N.O.	
2	SIDEWALL	BRASS	200	5.80	1/2"	V2710	VICTAULIC	FL-QRSW	NONE	14x14	
23	SPRIG	BRASS	200	5.80	1/2"	V2704	VICTAULIC	FL-QR	N/A	LH-15x15 OH-130SGPT	
632	SPK TOTAL										



SPRINKLER PLACEMENT DETAIL

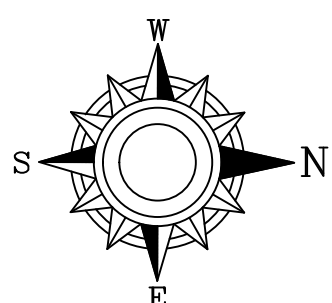
HANGER DETAILS



NFPA 13 STEEL PIPE HANGER SPACING	
(EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE	MAX SPACING
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"

LOWER LEVEL 'A' FIRE SPRINKLER PLAN

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



GENERAL NOTES

- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
- ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
- MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
- ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
- ALL WELDING PER NFPA-54 (2021)
- NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
- ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
- ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
- HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
- PROVIDE ON SPRINKLER HEAD CABINET WITH HEADS & 1 HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND I.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

NO

REVISIONS

DATE

APPROVAL STAMPS

Drawing Title:

FIRE PROTECTION PLAN - LOWER LEVEL AREA A

**WAITE PARK
PUBLIC SAFETY**
19 13TH AVE NORTH
WAITE PARK, MN 56387

Contract No.

C25-59

Drawing Date: 01/29/26

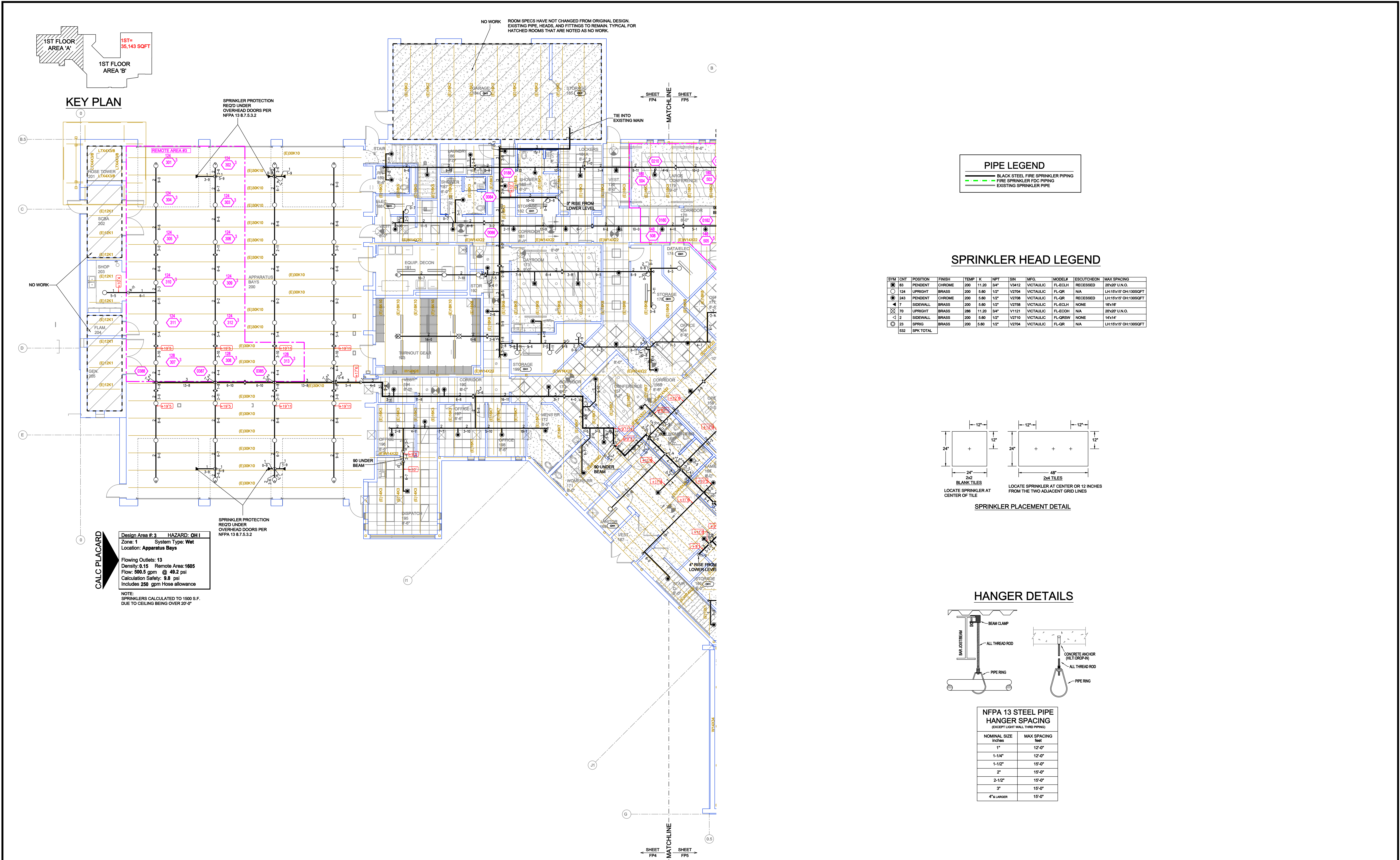
Scale: 1/8" = 1'-0"

Drawn By: NR

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 2 of 5

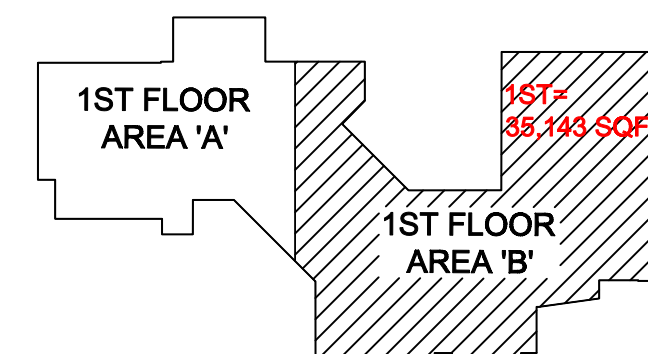
Drawing Title: FIRE PROTECTION PLAN - LOWER LEVEL AREA B	Contract No. C25-59
	Drawing Date: 01/29/26
	Scale: 1/8" = 1'-0"
	Drawn By: NLR
	Approval By: STATE FIRE MARSHAL DIV.
WAITE PARK PUBLIC SAFETY 19 13TH AVE NORTH WAITE PARK, MN 56387	SHEET NO. FP 3 of 5



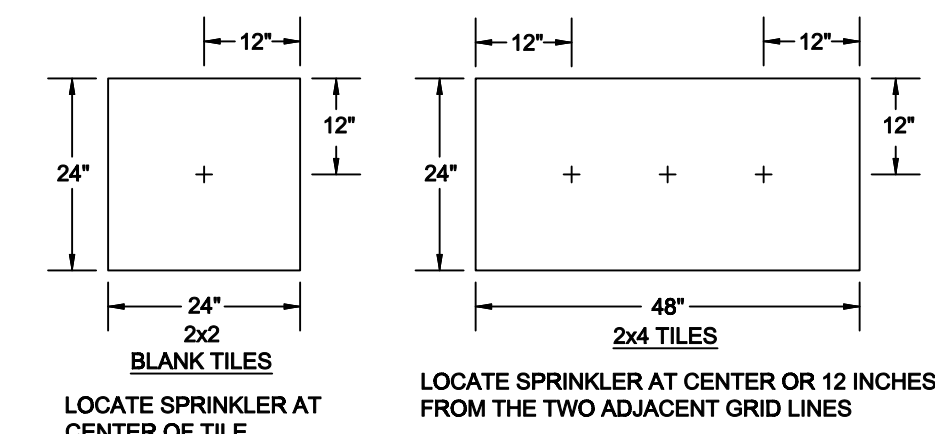
LEVEL 1 AREA 'A' FIRE SPRINKLER PLAN
SCALE= 1/8" = 1'-0"

 	GENERAL NOTES 1. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL 2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED 3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE 4. ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS 5. ALL WELDING PER NFPA-514(2) 6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS 7. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER 8. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED 9. PROVIDE ON SPARE HEAD CABINET w/8 HEAD WRENCH 10. HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED 11. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER 12. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.	NO	REVISIONS	DATE	APPROVAL STAMPS	Drawing Title: FIRE PROTECTION PLAN - LEVEL 1 AREA A WAITE PARK PUBLIC SAFETY 19 13TH AVE NORTH WAITE PARK, MN 56387	Contract No. C25-59
							Drawing Date: 01/29/26
							Scale: 1/8" = 1'-0"
							Drawn By: NR
							Approval By: STATE FIRE MARSHAL DIV.
							SHEET NO. FP 4 of 5

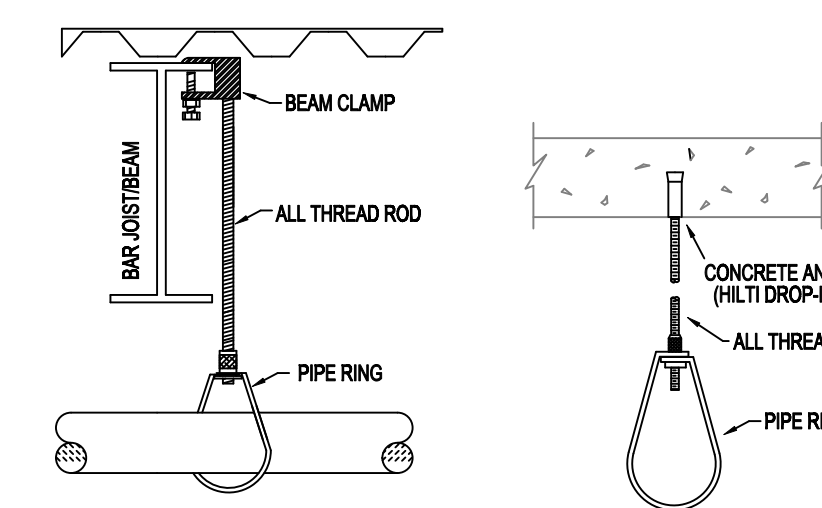
NGS TO REMAIN. TYPICAL FOR
ED AS NO WORK.



KEY PLAN



SPRINKLER PLACEMENT DETAIL



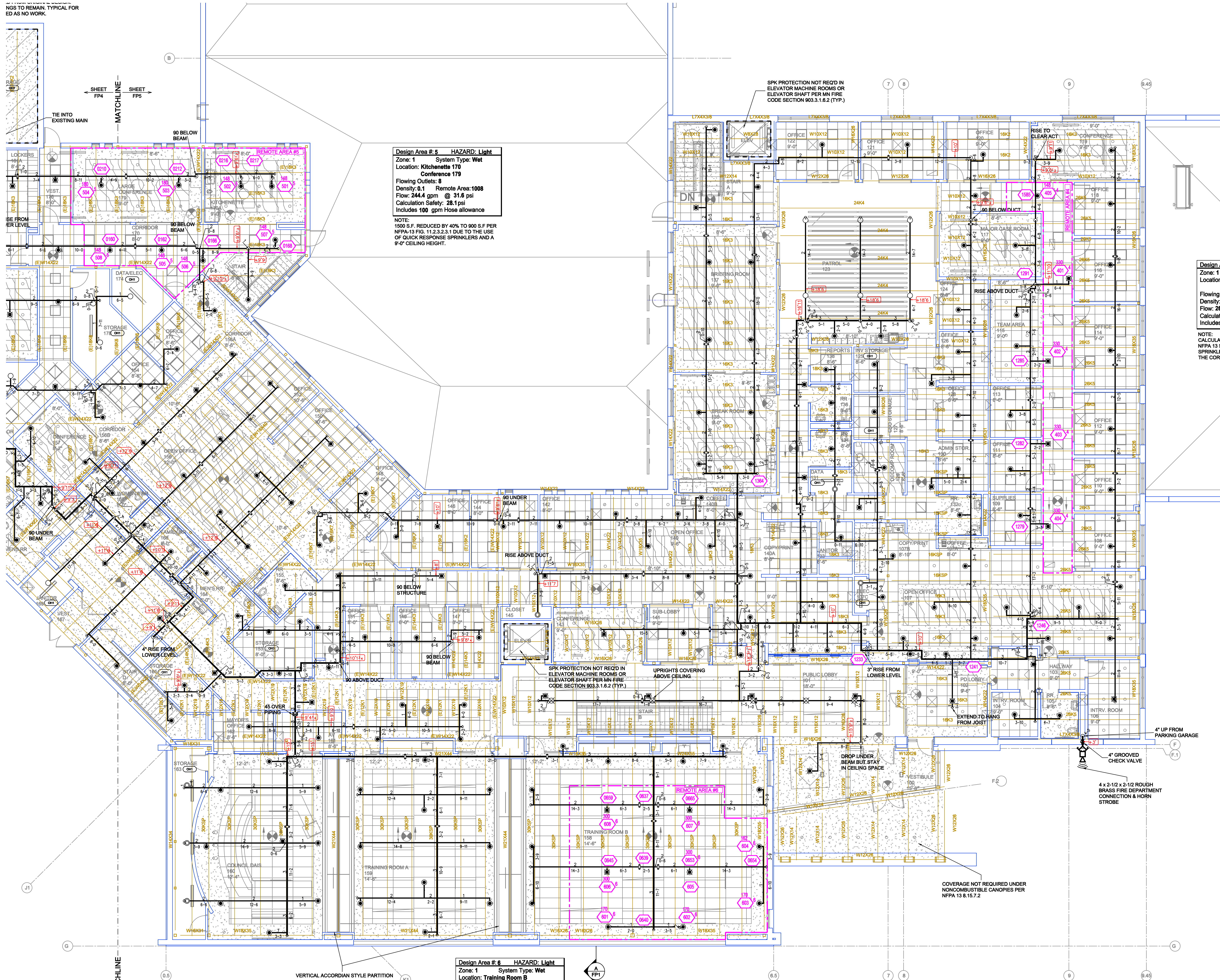
HANGER DETAILS

NFPA 13 STEEL PIPE HANGER SPACING (EXCEPT LIGHT WALL THRID PIPING)	
NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"

PIPE LEGEND

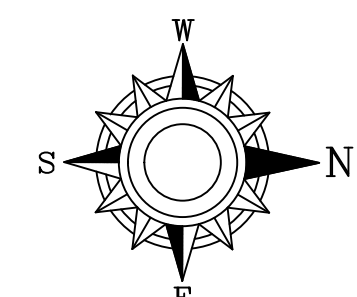
 BLACK STEEL FIRE SPRINKLER PIPING
 FIRE SPRINKLER FDC PIPING
 EXISTING SPRINKLER PIPE

SPRINKLER HEAD LEGEND

[illegible]

LEVEL 1 AREA 'B' FIRE SPRINKLER PLAN

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



GENERAL NOTES

2. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
3. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
4. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
5. ALL SCH. 40 LIGHTWALL PIPES SHALL HAVE WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
6. ALL WELDING PER NFPA-33(4-6.2)
7. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
8. ALL FIELD LOCATIONS ARE TO BE DETERMINED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
9. DIMENSIONS SHOWN ARE CENTER TO CENTER
10. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
11. PROVIDE ON SPARE HEAD CABINET WITH 8 HEADS & 1 HEAD WRENCH
12. HANGERS ARE TO BE U.L. LISTED AND F.A. APPROVED
13. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
14. OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

[illegible]

Drawing
TIME FIRE PROTECTION PLAN - LEVEL 1 AREA B

**WAITE PARK
PUBLIC SAFETY**
19 13TH AVE NORTH
WAITE PARK, MN 56387

Contract No.	
C25-59	
Drawing Date:	01/29/26
Scale:	1/8" = 1'-0"
Drawn By:	NR
Approval By:	STATE FIRE MARSHAL DIV.
SHEET NO.	FP 5 of 5