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08/20/2026

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REVISION:

100% CONSTRUCTION DOCUMENTS 08/20/2026

Sheet Issue Date: 08/20/2026

Job Number: 250120.00

Drawn By: LMM

Checked By: KLS

Drawing Title:
**FIRE PROTECTION
SYMBOLS, NOTES,
LEGENDS AND
SCHEDULES**

FIRE PROTECTION DESIGN CRITERIA (NFPA 13 - 2013 EDITION)					
HAZARD	AREA	DESIGN CRITERIA	HOSE (GPM)	MAX SPACING (SQFT)	DESIGN BASIS
LIGHT HAZARD	OFFICE AREAS / PUBLIC AREAS / CORRIDORS / BREAK ROOM	0.10 / 1500 SQFT	100	225	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 1	ELECTRICAL / MECHANICAL / STORAGE / SERVER / IT / VEHICLE STORAGE	0.15 / 1500 SQFT	250	130	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 2	REPAIR GARAGE WAREHOUSE STORAGE (RACK STORAGE OF CLASS I-III UP TO 12FT / RACK STORAGE OF CLASS IV UP TO 10FT / GROUP A PLASTIC STORAGE UP TO 5 FT.)	0.20 / 1500 SQFT	250	130	NFPA 13 SECTIONS 13.2.2 & TABLE 13.2.1
MINIMUM REQUIRED SAFETY FACTOR: 5 PSI OR AHJ MINIMUM, WHICHEVER IS GREATER					
NOTES: 1. THE HYDRAULIC AREA OF OPERATION MAY NOT BE REDUCED AS ALLOWED BY NFPA 13 FOR AREAS UTILIZING QUICK RESPONSE SPRINKLERS FOR NEW SYSTEM INSTALLATIONS OR UNFINISHED SHELTER SPACES. 2. HYDRAULIC AREA OF OPERATION SHALL BE INCREASED (CUMULATIVELY) WITHOUT REVISING THE DENSITY FOR THE FOLLOWING APPLICATIONS: A. INCREASED BY 30% FOR AREAS WITH SLOPED CEILINGS WITH A PITCH EXCEEDING 1 IN 16 (7%) SLOPE IN ACCORDANCE WITH NFPA 13 11.2.3.2.4. B. INCREASED BY 30% FOR DRY-PIPE AND DOUBLE INTERLOCK PRE-ACTION SYSTEMS, IN ACCORDANCE WITH NFPA 13 11.2.3.2.5. C. INCREASED TO 3,000 SQFT IF THE BUILDING HAS ADJACENT, NON-SPRINKLERED COMBUSTIBLE SPACES. 3. THE ABOVE CRITERIA NOTED DOES NOT PRECLUDE THE USE OF EXTENDED COVERAGE OR LISTED SPECIAL APPLICATION SPRINKLERS THAT ARE DESIGNED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER REQUIREMENTS. 4. THE HOSE STREAM ALLOWANCE SHALL BE PROVIDED AT THE BASE OF RISER.					

VIBRATION ISOLATION SCHEDULE					
EQUIPMENT TAG	ISOLATION SPEC.	ISOLATOR DEFLECTION	IMPORTANCE FACTOR	RESPONSE MODIFICATION FACTOR	AMPLIFICATION FACTOR
SPR-PIPING	SC	-	1.5	2.5	1.0
SPR-EQUIP	W / B	-	1.5	2.5	1.0

FLOW TEST

DATE PERFORMED: 11-03-25

STATIC: 80 PSI

RESIDUAL: 70 PSI

FLOW: 1340 GPM

TEST RESULTS ARE VALID FOR 12 MONTHS FROM THE DATE PERFORMED.

IT IS NOT EXPECTED THAT A FIRE PUMP WILL BE REQUIRED AS PART OF THIS PROJECT. CONTRACTOR SHALL ESTIMATE THE SYSTEM DEMAND AND VERIFY THAT THE WATER SUPPLY IS SUFFICIENT PRIOR TO SUBMITTING BIDS. IF THE CONTRACTOR DETERMINES A FIRE PUMP WILL BE REQUIRED, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED PRIOR TO BIDDING.

FIRE PROTECTION SPRINKLER SCHEDULE

SYMBOL	TYPE	RE.	K-F	FINISH	NOTE
●	FULLY-CONCEALED PENDENT	QR	5.6	WHITE COVERPLATE	-
●	FULLY-CONCEALED DRY PENDENT	QR	5.6	WHITE COVERPLATE	1
○	RECESSED PENDENT	QR	5.6	WHITE	2
○	UPRIGHT	QR	5.6	BRASS	2
▽	SIDEWALL	QR	5.6	WHITE	2
▽	DRY SIDEWALL	QR	5.6	WHITE	2

GENERAL NOTES:

- SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13.
- SPRINKLERS SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUESTED BY ARCHITECT.

NOTES:

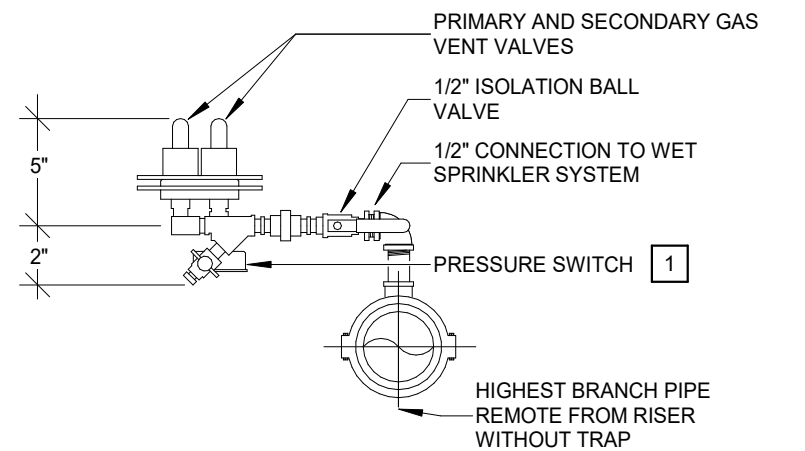
- PROVIDE HIGH TEMPERATURE RATED SPRINKLERS IN VESTIBULES.
- PROVIDE WITH LISTED SPRINKLER GUARD FOR INSTALLATIONS BELOW 7 FT AFF.

FIRE PROTECTION SYMBOL LEGEND

---	SCOPE OF WORK BOUNDARY
TEE	TEE
ELBOW	ELBOW
PIPE CONTINUATION	PIPE CONTINUATION
SUPERVISED BUTTERFLY INDICATING VALVE	SUPERVISED BUTTERFLY INDICATING VALVE
COUPLING	COUPLING
SUPERVISED WATERFLOW SWITCH	SUPERVISED WATERFLOW SWITCH
PRESSURE GAUGE WITH BALL VALVE	PRESSURE GAUGE WITH BALL VALVE
INSPECTOR'S TEST & DRAIN W/ SIGHT GLASS	INSPECTOR'S TEST & DRAIN W/ SIGHT GLASS
CHECK VALVE (3" AND SMALLER)	CHECK VALVE (3" AND SMALLER)
CHECK VALVE (4" AND LARGER)	CHECK VALVE (4" AND LARGER)
FIRE PUMP (SECTION VIEW)	FIRE PUMP (SECTION VIEW)
REDUCER	REDUCER
SUPERVISED OS&Y VALVE	SUPERVISED OS&Y VALVE
HOSE CONNECTION	HOSE CONNECTION
FIRE PUMP TEST HEADER	FIRE PUMP TEST HEADER
FIRE PUMP TEST HEADER	FIRE PUMP TEST HEADER
SUPERVISED WATERFLOW SWITCH	SUPERVISED WATERFLOW SWITCH
SUPERVISED PRESSURE SWITCH	SUPERVISED PRESSURE SWITCH
SUPERVISED TAMPER SWITCH	SUPERVISED TAMPER SWITCH
CONNECTION OF NEW TO EXISTING	CONNECTION OF NEW TO EXISTING
NEW FIRE SUPPRESSION PIPE	NEW FIRE SUPPRESSION PIPE
DEMO FIRE SUPPRESSION PIPE (ON DEMO PLANS ONLY)	DEMO FIRE SUPPRESSION PIPE (ON DEMO PLANS ONLY)
EXISTING FIRE SUPPRESSION PIPE	EXISTING FIRE SUPPRESSION PIPE

FIRE PROTECTION ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BOP	BOTTOM OF PIPE
BRZ	BRONZE
DN	DOWN
EC	EXTENDED COVERAGE
EX	EXISTING
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GC	GENERAL CONTRACTOR
GRVD	GROOVED
HSW	HORIZONTAL SIDEWALL
IN	INCH
PC	PLUMBING CONTRACTOR
PND	PENDENT
QR	QUICK RESPONSE
SPR	SPRINKLER SYSTEM
SS	STANDPIPE SYSTEM
STND	STANDARD
THR	THREADED
UPR	UPRIGHT



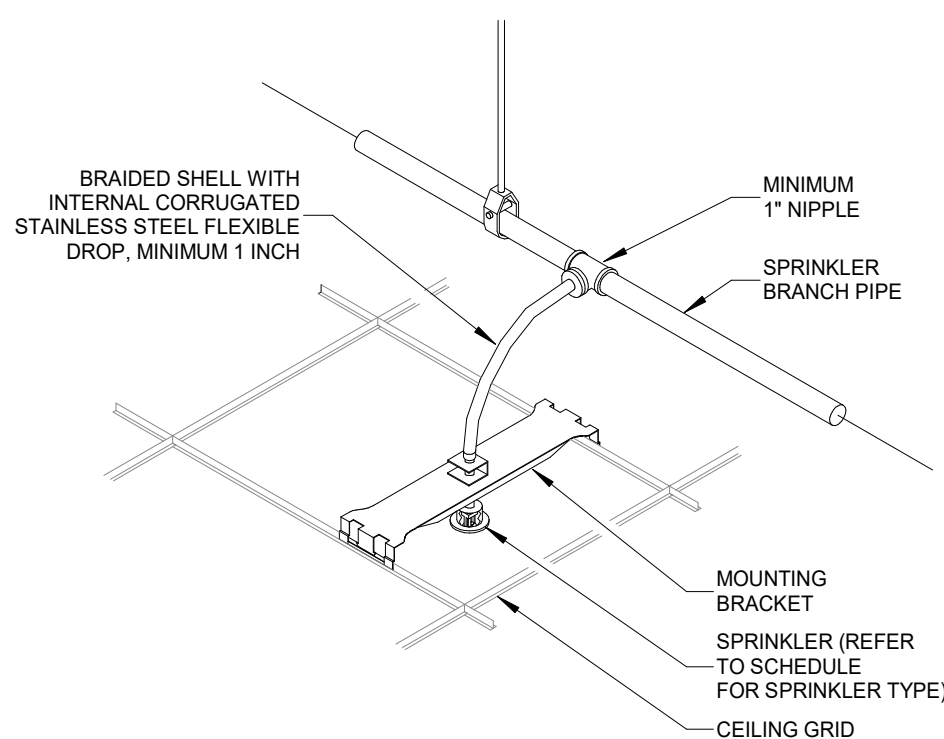
PROVIDE ECS PAV-VIS EJECTOR AUTOMATIC AIR VENT ON EACH WET PIPE SYSTEM.

NOTE: ARRANGEMENT PROVIDED IS SCHEMATIC. DIMENSIONS SHOWN ARE REQUIRED CLEARANCES. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE & STANDARD REQUIREMENTS.

- 1 COORDINATE CONNECTION AND MONITORING OF 24V PRESSURE SWITCH WITH FIRE ALARM CONTRACTOR FOR TROUBLE CONDITION.

6 AUTOMATIC AIR VENT

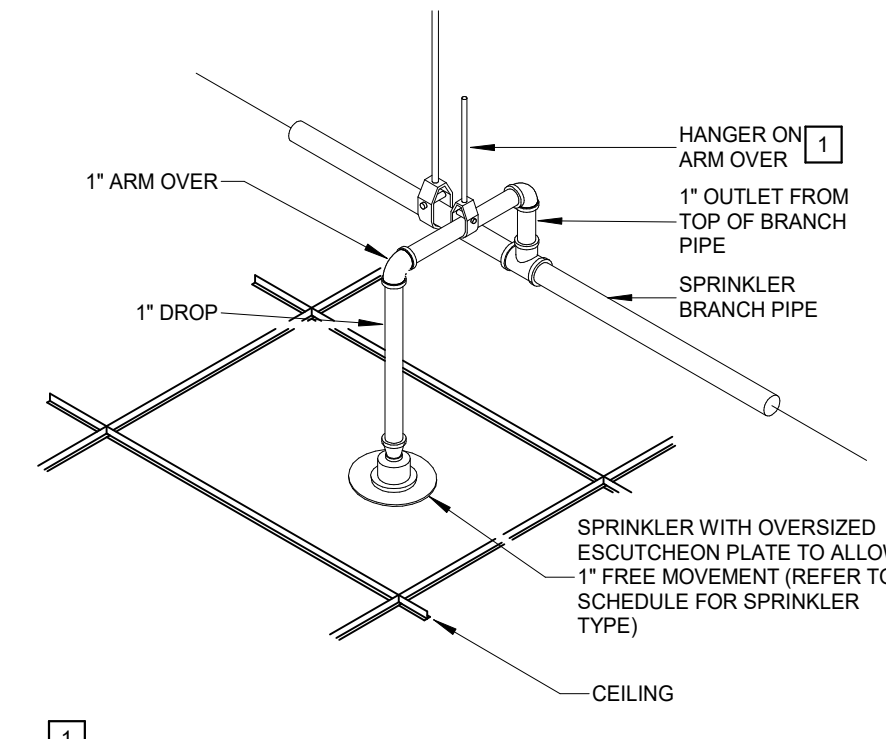
NOT TO SCALE



NOTE: ARRANGEMENT PROVIDED IS SCHEMATIC IN NATURE. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE AND STANDARD REQUIREMENTS.

9 TYPICAL FLEXIBLE ARMOVERT

NOT TO SCALE

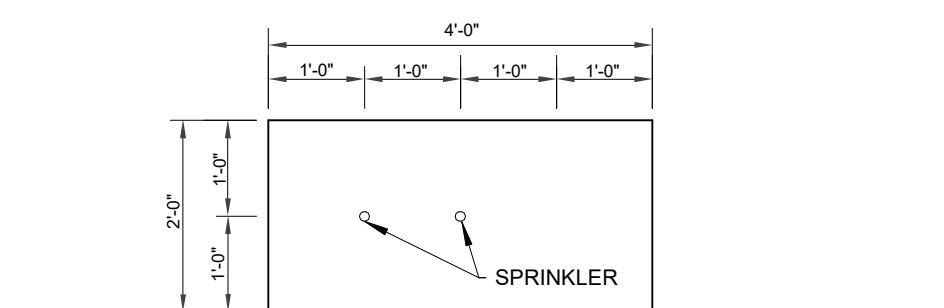


- 1 HANGER ASSEMBLY THAT PREVENTS UPWARD MOVEMENT OF PIPE PROVIDED WHEN ARM OVER EXCEEDS 12" FOR SYSTEM STATIC PRESSURES OVER 100 PSI OR WHEN ARM OVER EXCEEDS 24" IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.5 (2013 EDITION).

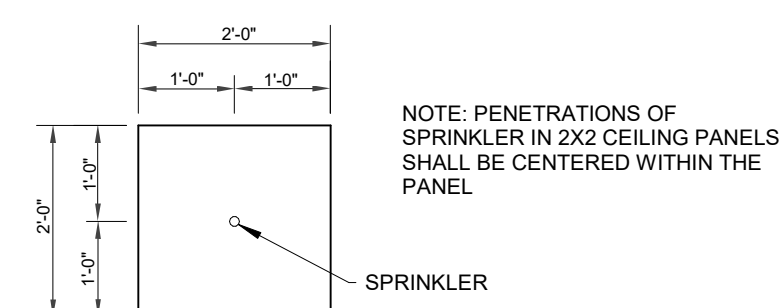
SPRINKLERS CONNECTING TO THE BOTTOM OF THE BRANCH PIPE ARE NOT PERMITTED.

5 TYPICAL RETURN BEND

NOT TO SCALE



NOTE: PENETRATIONS OF SPRINKLER IN 2X4 CEILING PANELS SHALL BE CENTERED OR AT QUARTER POINT IN LENGTH DIMENSION. ALL SPRINKLERS WITHIN THE SAME ROOM SHALL ALL BE LOCATED SIMILARLY AT THE CENTER POINT OR QUARTER POINT.

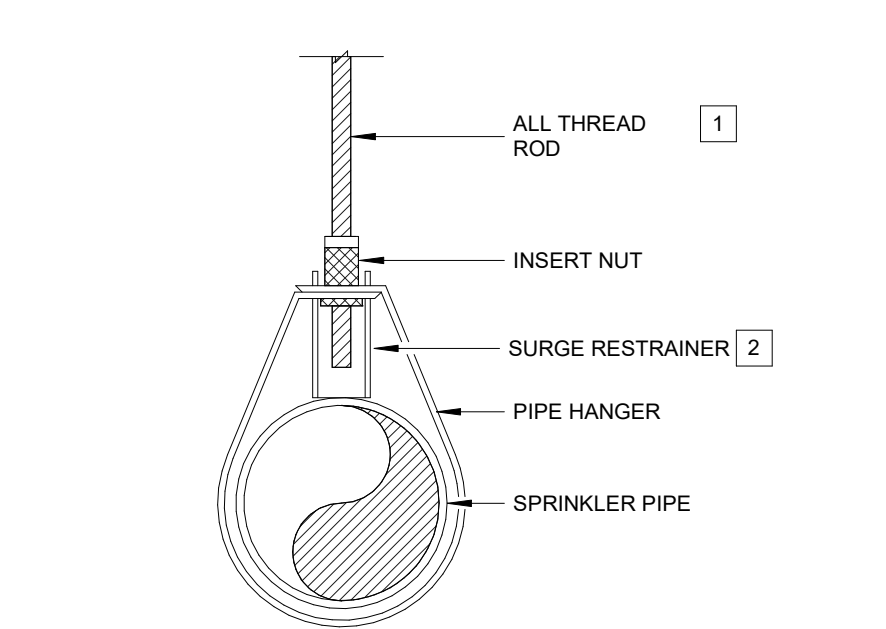


NOTE: PENETRATIONS OF SPRINKLER IN 2X2 CEILING PANELS SHALL BE CENTERED WITHIN THE PANEL.

SPRINKLERS SHALL BE LOCATED AS NOTED ABOVE, WITH A 2-IN TOLERANCE IN ANY DIRECTION.

8 CEILING TILE SPRINKLER SPACING

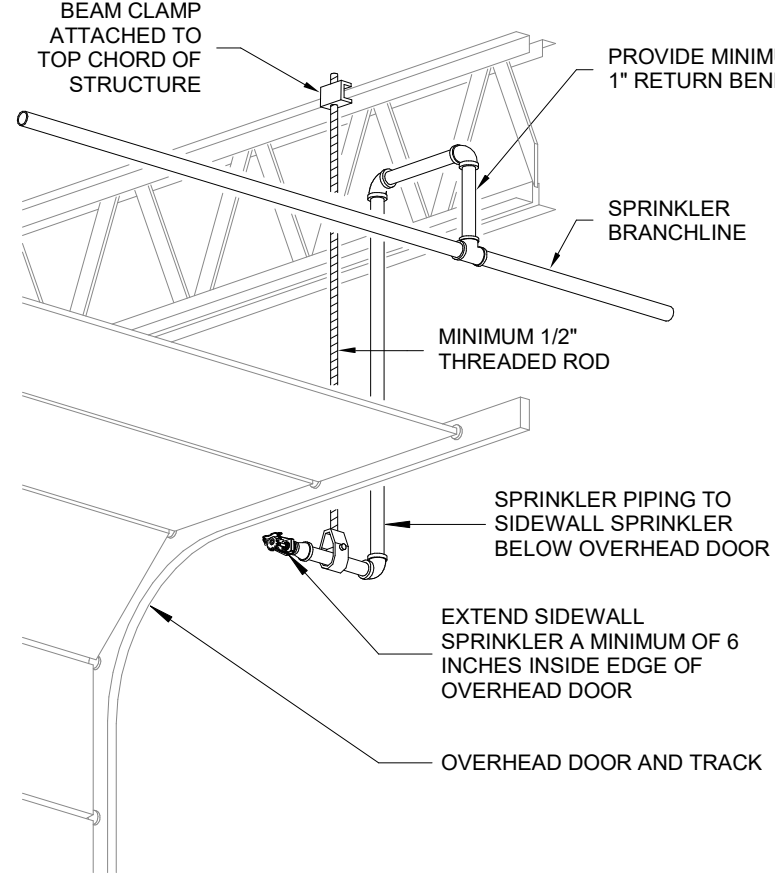
NOT TO SCALE



- 1 ROD DIAMETER SHALL BE MINIMUM 3/8" FOR 1" TO 4" PIPE DIAMETER OR MINIMUM 1/2" FOR 6" TO 8" PIPE DIAMETER.
- 2 PROVIDE A SURGE RESTRAINER, CLEVIS-TYPE HANGER, U-HOOK, OR PROVIDE HANGER ROD TIGHT TO PIPE. (1) AT END PENDENT SPRINKLER TO PREVENT UPWARD MOVEMENT OF PIPE WHERE PRESSURE EXCEEDS 100 PSI. IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.4 (2013 EDITION), OR (2) WHERE USED FOR SEISMIC RESTRAINT OF PIPING.

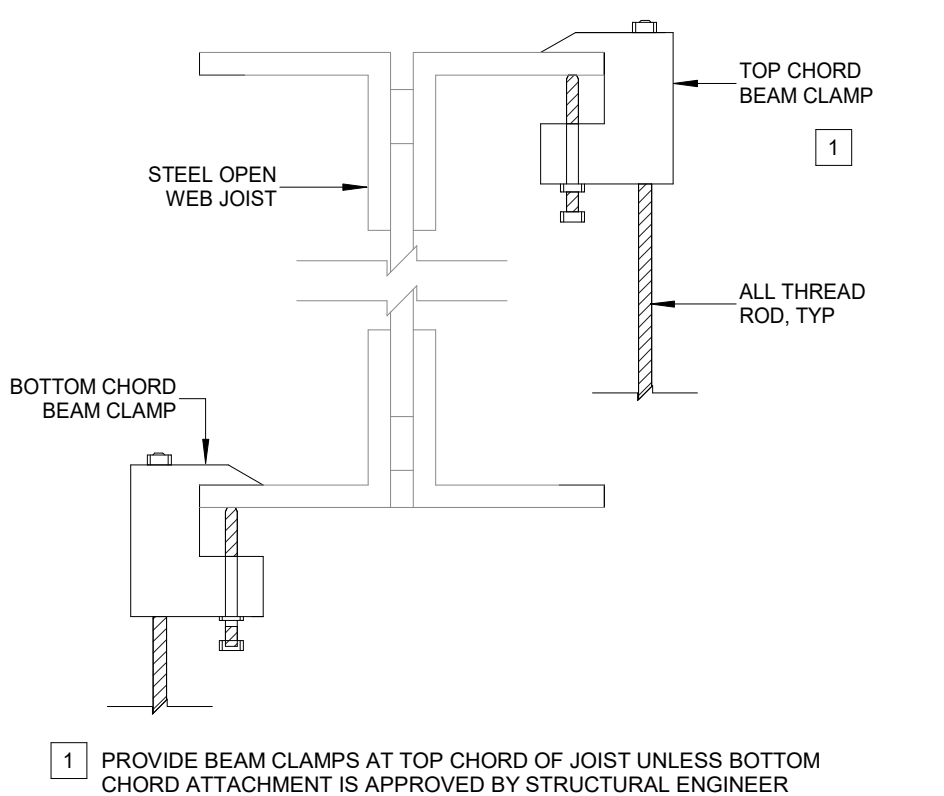
4 PIPE HANGER

NOT TO SCALE



2 OVERHEAD DOOR DETAIL

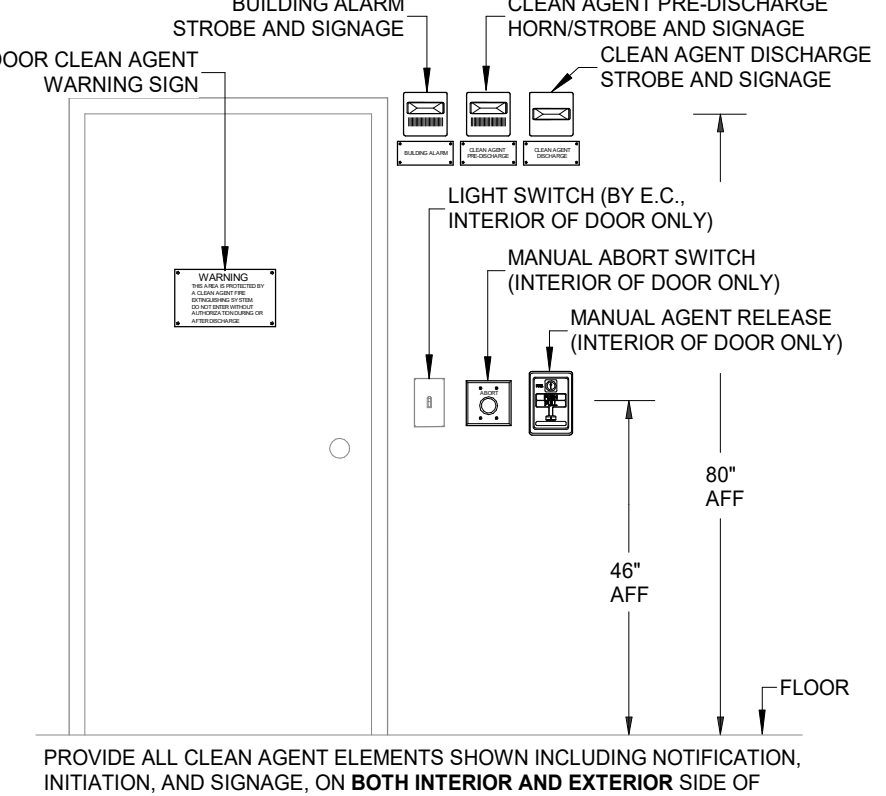
NOT TO SCALE



- 1 PROVIDE BEAM CLAMPS AT TOP CHORD OF JOIST UNLESS BOTTOM CHORD ATTACHMENT IS APPROVED BY STRUCTURAL ENGINEER.

7 PIPE HANGER DETAIL - BAR JOISTS

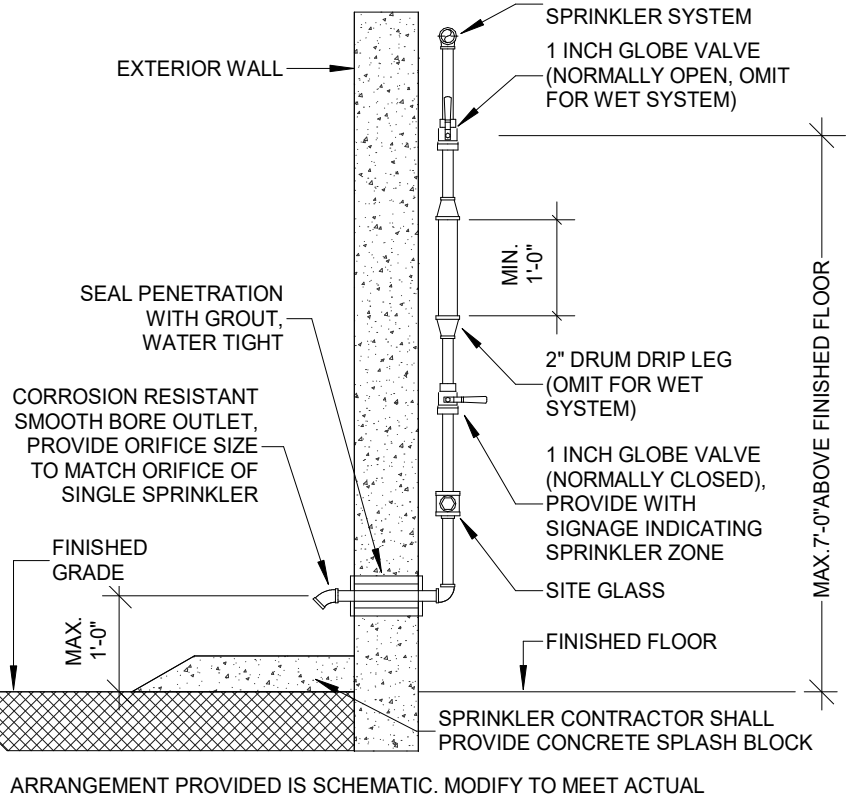
NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODES AND STANDARD REQUIREMENTS.

3 CLEAN AGENT SYSTEM AT DOORS

NOT TO SCALE



ARRANGEMENT PROVIDED IS SCHEMATIC. MODIFY TO MEET ACTUAL CONDITIONS AND APPLICABLE CODE AND STANDARD REQUIREMENTS. EXTERIOR PIPING AND FITTINGS SHALL BE EXTERNALLY GALVANIZED.

1 REMOTE INSPECTOR'S TEST AND DRAIN

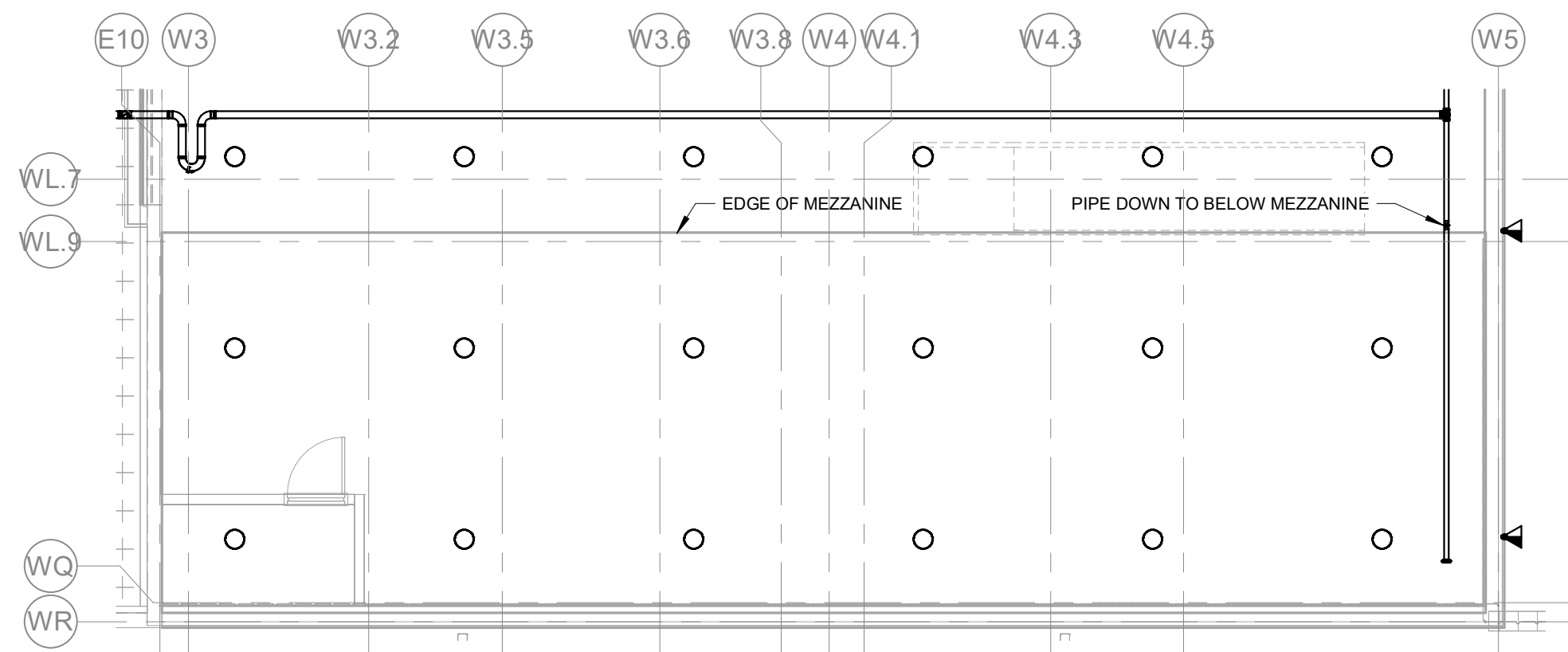
NOT TO SCALE

FIRE PROTECTION GENERAL NOTES:

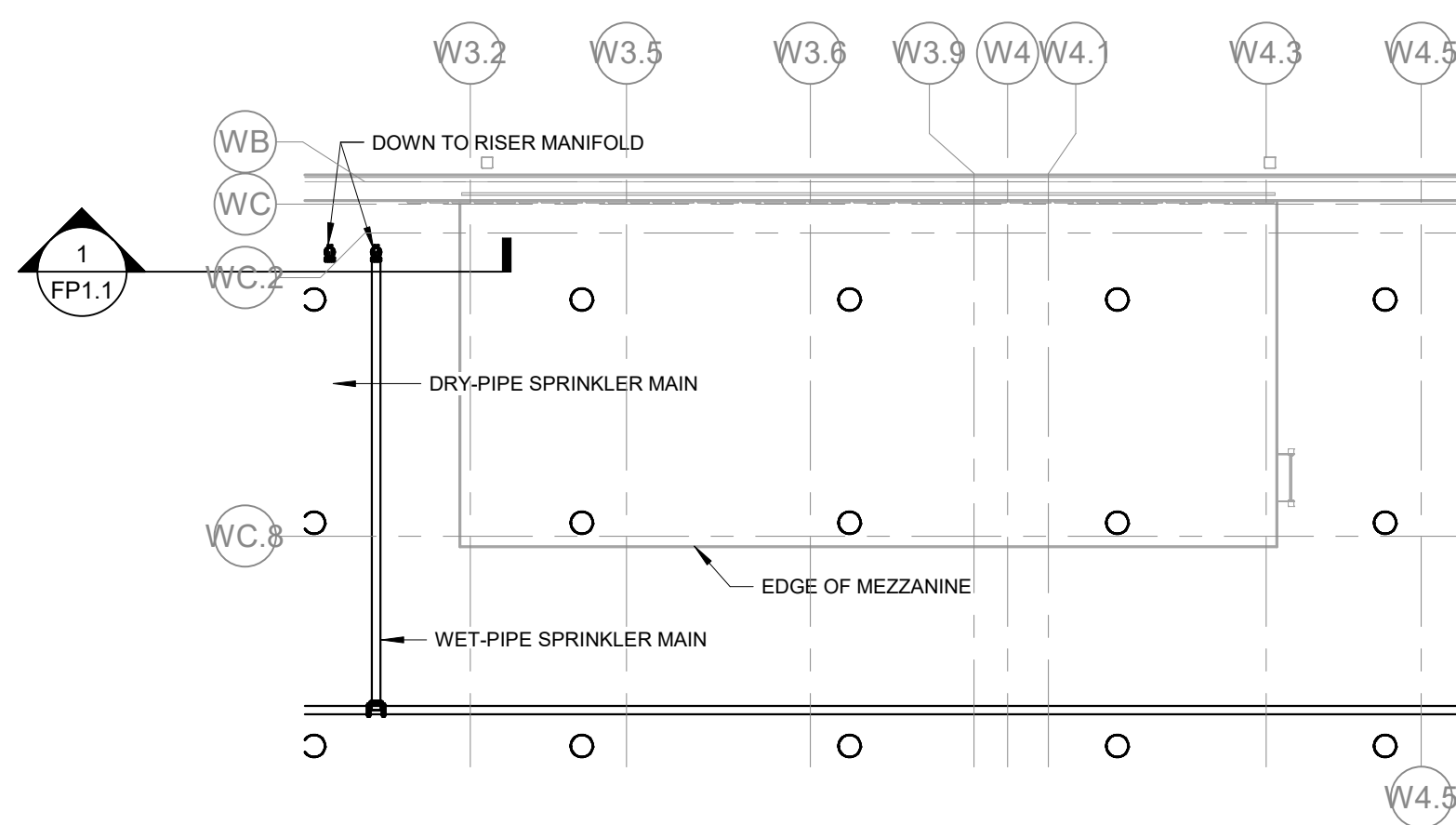
- SCOPE: PROVIDE A COMPLETE, FUNCTIONING FIRE SPRINKLER SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, (2013 EDITION). SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE, FIRE CODE, AUTHORITY HAVING JURISDICTION, AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED FOR PROVIDING AND INSTALLING EQUIPMENT REQUIRED BY THE AFOREMENTIONED CODES, STANDARDS, THE LOCAL AUTHORITY HAVING JURISDICTION, OR THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- DELEGATED DESIGN: FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING A COMPLETE, FUNCTIONAL, AND CODE COMPLIANT AUTOMATIC SPRINKLER SYSTEM THAT MEETS THE INTENT OF THE CONTRACT DOCUMENTS. FIRE SPRINKLER SYSTEM DESIGN INTENT PROVIDED WITHIN THE CONTRACT DOCUMENTS MAY EXCEED CODE MINIMUM REQUIREMENTS. DESIGN INTENT PROVIDED WITHIN THE CONTRACT DOCUMENTS THAT EXCEEDS CODE MINIMUM REQUIREMENTS SHALL BE INCLUDED WITHIN THE CONTRACTOR'S SCOPE OF WORK.
- THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPE ROUTING ARE SHOWN ONLY FOR GENERAL REFERENCE AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL DESIGN, LOCATE AND PROVIDE ALL EQUIPMENT, VALVES, PIPE ARRANGEMENTS AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- APPROVAL: PRIOR TO COMMENCING WORK, APPROVAL SHALL BE RECEIVED FROM THE OWNERS INSURANCE COMPANY, ENGINEER, FIRE MARSHAL AND OWNER. WORK COMMENCED PRIOR TO SHOP DRAWING REVIEW SHALL BE AT CONTRACTORS RISK.
- PIPING AND COORDINATION:
 - FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR THE LOCATION OF ALL PIPING AND EQUIPMENT TO PREVENT INTERFERENCE. PROVIDE ALL NECESSARY OFFSETS IN PIPING TO AVOID CONFLICT. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED WHERE ALTERNATE PIPING ROUTES ARE REQUIRED.
 - PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE IN OPEN STRUCTURE AREAS.
 - PIPING SHALL BE ROUTED 3" - 12" ABOVE CEILING, UNLESS OTHERWISE NOTED.
 - RENDER ANY PASSAGE OF PIPING THROUGH OUTSIDE WALLS PERMANENTLY WATERTIGHT.
 - WHERE PIPING ELEVATION CONFLICTS WITH DUCTWORK, OFFSETS TO FIRE PROTECTION PIPING SHALL BE UP AND OVER DUCTWORK, WHERE CONFLICTS OCCUR, PIPING SHALL NOT BE ROUTED DOWN BELOW DUCTWORK WHERE THIS PIPING WOULD BE LESS THAN 3" ABOVE CEILING ELEVATION.
 - PROVIDE AUXILIARY DRAINS AS REQUIRED FOR DRAINING TRAPPED SECTIONS OF PIPING, FOR TRAPPED SECTIONS OF PIPING EXCEEDING 5 GALLONS IN CAPACITY, PROVIDE A HARD-PIPED DRAIN CONNECTION AND ROUTE BACK TO DRAIN IN SPRINKLER RISER ROOM OR ALTERNATE LOCATION APPROVED BY ENGINEER.
 - COORDINATE ALL POWER AND FIRE ALARM CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.
- SPRINKLER TYPE AND DESIGN DENSITIES: REFER TO FIRE PROTECTION SPRINKLER SCHEDULE AND PROTECTION CRITERIA.
- SUBMITTAL: FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FOLLOWING DOCUMENTATION SIGNED AND SEALED BY A FIRE PROTECTION ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:
 - SHOP DRAWINGS CREATED IN ACCORDANCE WITH NFPA 13 SECTION 23.1.3 (2013 EDITION) AND CONTRACT DOCUMENTS.
 - HYDRAULIC CALCULATIONS
 - FLOW TEST INFORMATION
 - PRODUCT DATA FOR ALL EQUIPMENT AND COMPONENTS USED ON THIS PROJECT. ALL EQUIPMENT AND COMPONENTS SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
 - ANY OTHER DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- SCOPE VERIFICATION: GENERAL CONTRACTOR SHALL VERIFY:
 - ELECTRICAL CONTRACTOR HAS INCLUDED IN HIS CONTRACT ALL POWER AND EMERGENCY POWER REQUIREMENTS REQUIRED FOR FIRE PROTECTION EQUIPMENT, AND ALL SUPERVISORY FIRE ALARM CONNECTIONS.
 - FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR SITE WORK INFORMATION AND ADDITIONAL INFORMATION.
- SPECIFICATIONS: REFER TO SPECIFICATIONS FOR FURTHER DETAIL.

FIRE PROTECTION SHEET LIST

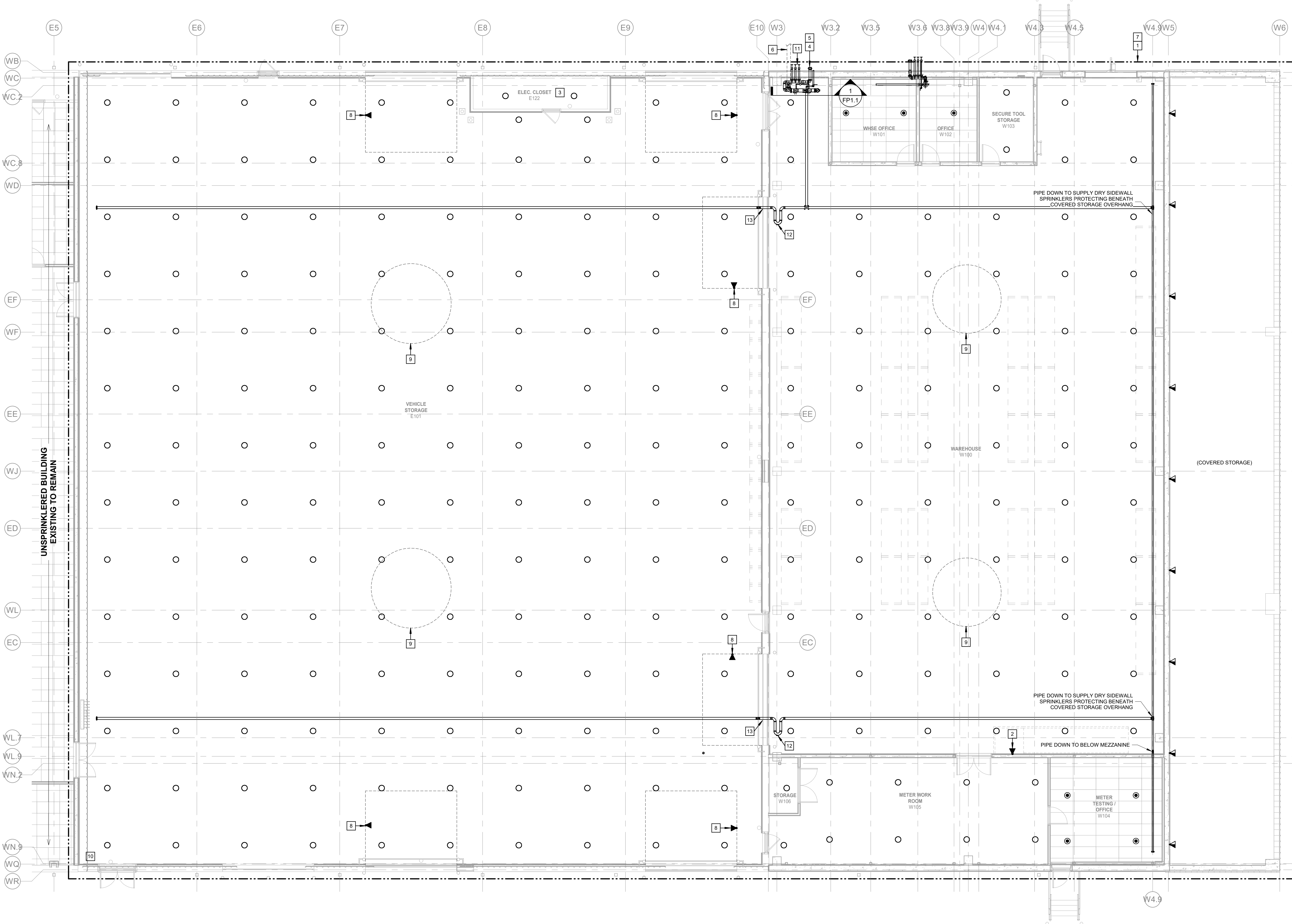
Sheet Number	Sheet Name
FP0.1	FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES
FP1.1	FIRE PROTECTION PLAN - VEHICLE STORAGE & WAREHOUSE
FP1.2	FIRE PROTECTION PLAN - MAINTENANCE
FP1.3	FIRE PROTECTION PLAN - OFFICE



FIRE PROTECTION PLAN - WAREHOUSE EAST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH



FIRE PROTECTION PLAN - WAREHOUSE WEST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH



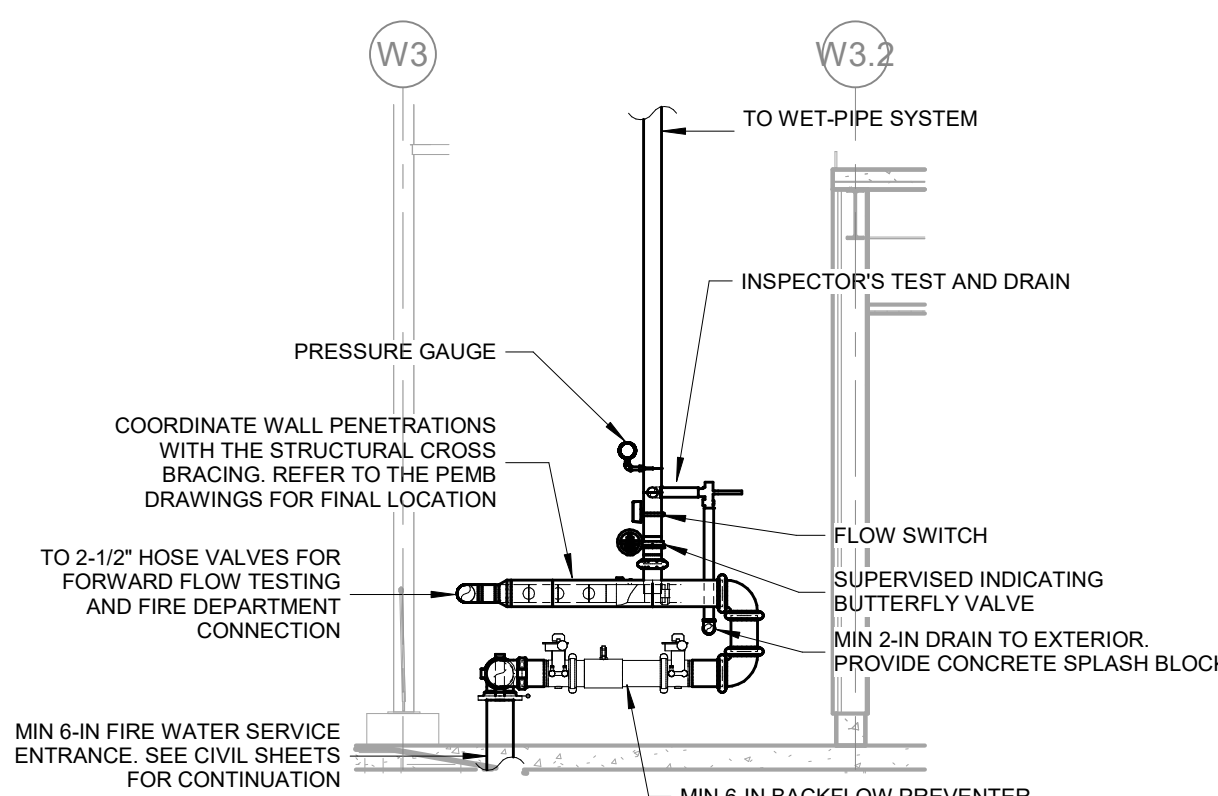
FIRE PROTECTION PLAN - VEHICLE STORAGE AND WAREHOUSE
SCALE: 1/8" = 1'-0"
NORTH

FIRE PROTECTION GENERAL NOTES:

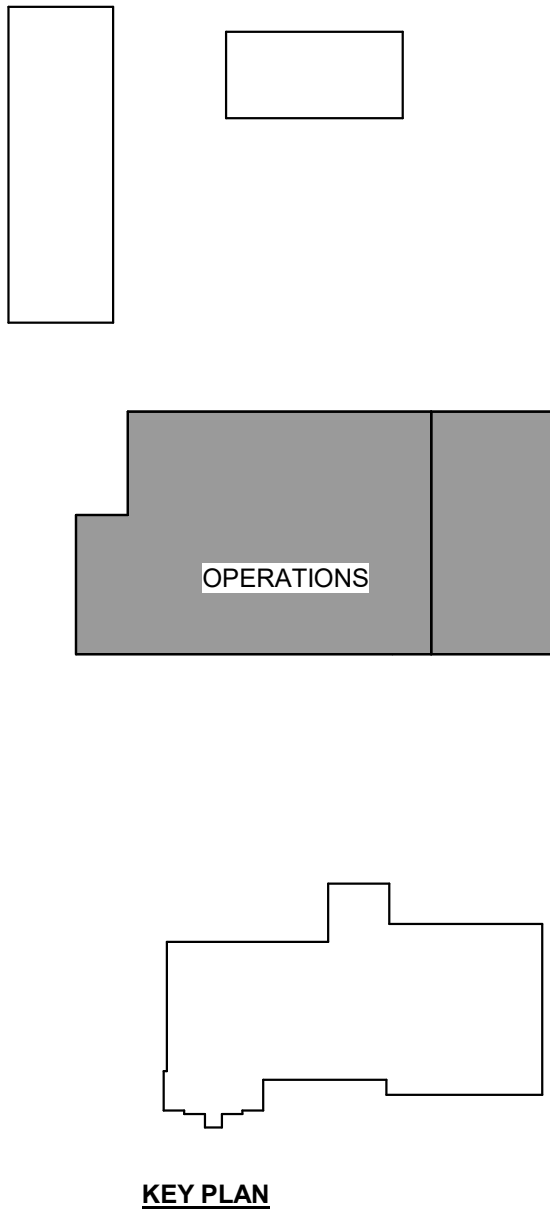
1. REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
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3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION KEYED NOTES:

1. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEMS SHALL BE DESIGNED PER NFPA 13 AND IRC REQUIREMENTS FOR A FULLY SPRINKLER BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES.
2. PROVIDE SPRINKLER PROTECTION BENEATH THE ACCESSIBLE STAIR LANDING.
3. DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70 (2014/2017/2020/2023 EDITION). NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
4. PROVIDE AN AUDIO/VISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
5. PROVIDE SIAMASE WALL MOUNTED FIRE DEPARTMENT CONNECTION AND CHECK VALVE. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
6. PROVIDE A NEW MINIMUM 8" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
7. PROVIDE AN AUTOMATIC AIR VENT FOR THE WET PIPE SPRINKLER SYSTEM. LOCATED AT THE HIGH POINT IN THE SYSTEM. THE AUTOMATIC AIR VENT SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. ACCESS POINT SHALL BE LABELED IF LOCATED ABOVE A CEILING. PROVIDE CEILING ACCESS PANEL AS REQUIRED. REFER TO DETAIL ON SHEET FP0.1 AND SPECIFICATION 210500 FOR MORE INFORMATION. COORDINATE WIRING REQUIREMENTS AND FINAL LOCATION WITH THE FIRE ALARM CONTRACTOR.
8. PROVIDE SPRINKLER PROTECTION BENEATH OVERHEAD DOOR IN ACCORDANCE WITH NFPA 13. PIPING SHALL BE SUPPORTED BY HANGERS ATTACHED TO STRUCTURE, NOT DOOR TRACKS.
9. LOCATION OF NEW HVLS FANS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION OF HVLS FAN. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR INSTALL PIPING AND SPRINKLERS IN A MANNER THAT PROVIDES REQUIRED CLEARANCES TO HVLS FANS PER NFPA 13 AND MANUFACTURER'S REQUIREMENTS.
10. REMOTE INSPECTOR'S TEST AND DRAIN.
11. 2-1/2" HOSE VALVES FOR FORWARD FLOW TESTING OF THE BACKFLOW PREVENTER. PROVIDE (1) HOSE VALVE FOR EVERY 250 GPM OF TOTAL SYSTEM DEMAND, INCLUDING HOSE DEMAND.
12. PROVIDE AN EXPANSION LOOP AT ALL LOCATIONS WHERE SPRINKLER PIPING CROSSES A BUILDING EXPANSION JOINT. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL LOCATIONS OF BUILDING EXPANSION JOINTS. REFER TO SPECIFICATION 210500 FOR EXPANSION LOOP REQUIREMENTS.
13. COORDINATE PIPE PENETRATION WITH NEW OVERHEAD DOOR. LOCATE SPRINKLER MAIN AS NECESSARY TO AVOID CONFLICTS WITH THE OVERHEAD DOOR, TRACK, MOTOR, SUPPORTS, ETC. REFER TO THE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



1 FIRE PROTECTION RISER MANIFOLD - WAREHOUSE
SCALE: 1/4" = 1'-0"



REVISION:

100% CONSTRUCTION DOCUMENTS 08/20/2026

Sheet Issue Date: 08/20/2026

Job Number: 250120.00

Drawn By: LMM

Checked By: KLS

Drawing Title:

FIRE PROTECTION
PLAN - MAINTENANCE

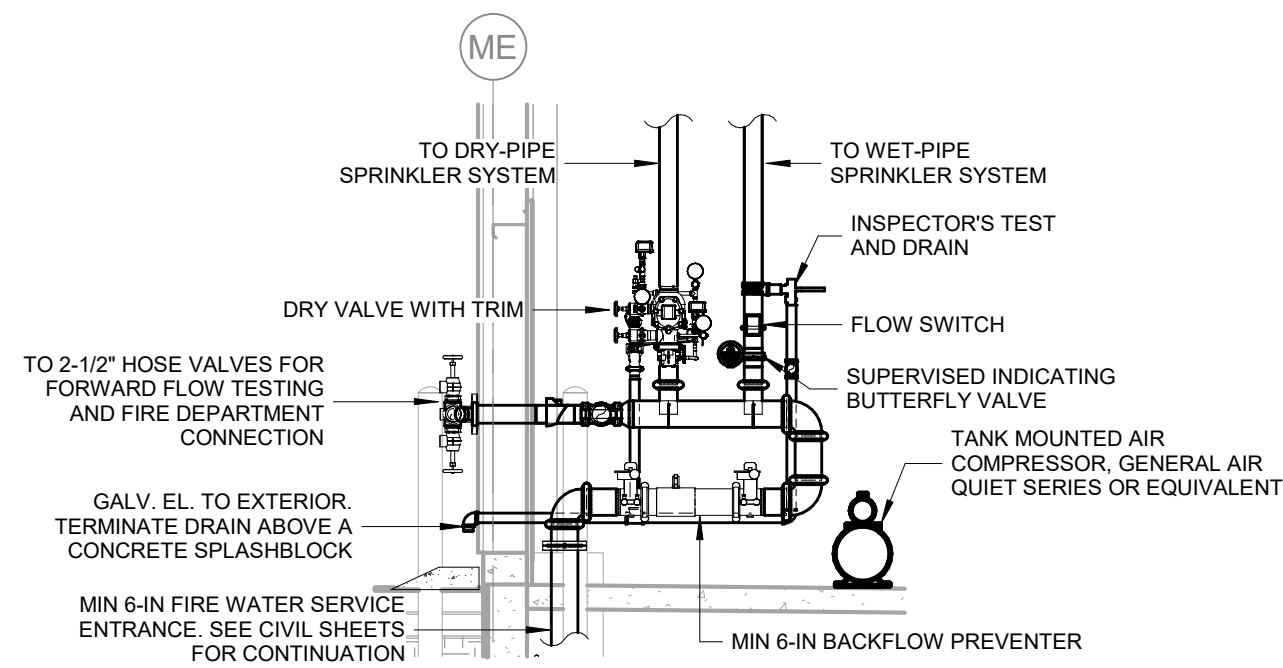
FP1.2

FIRE PROTECTION GENERAL NOTES:

1. REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
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3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

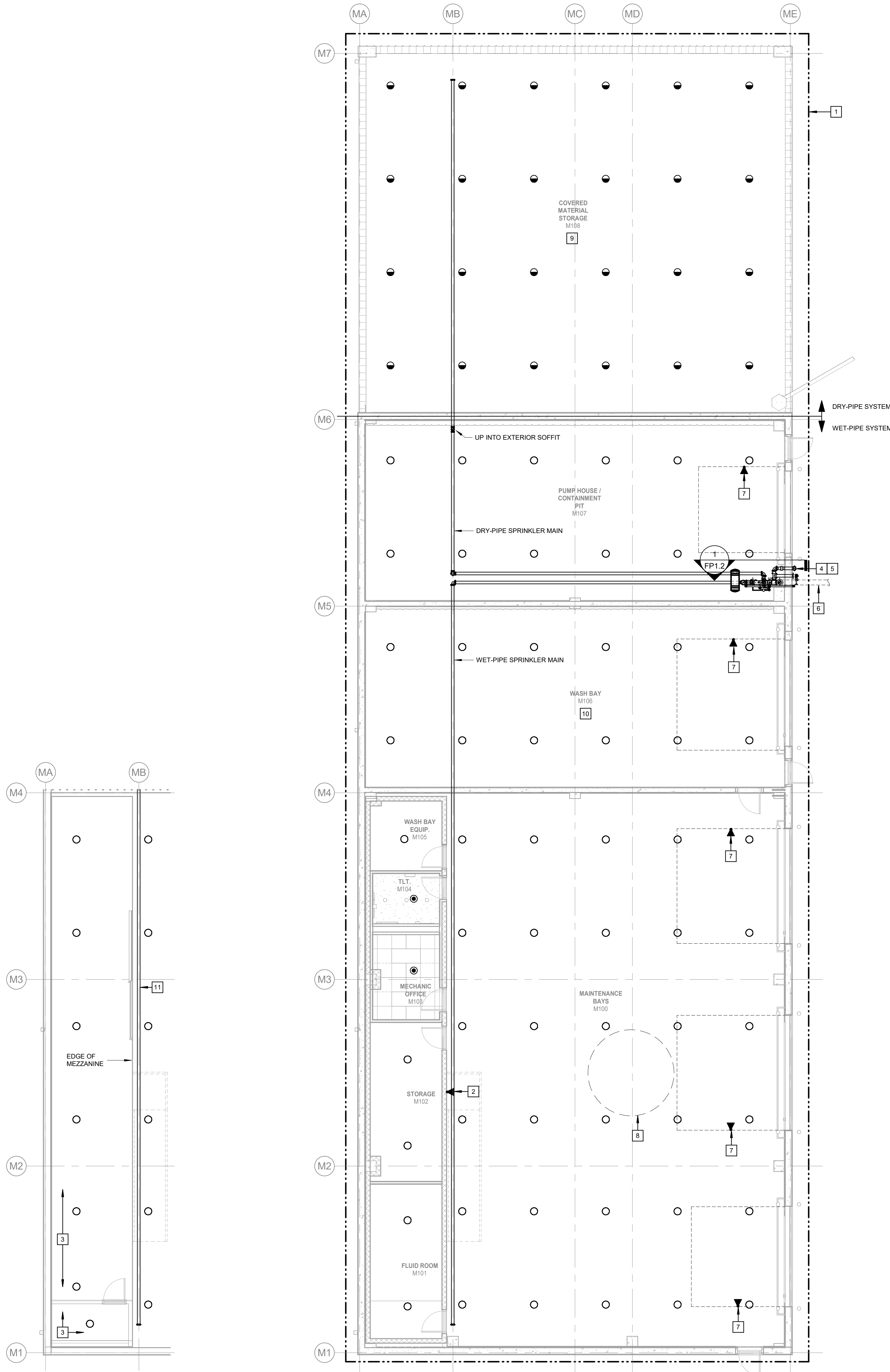
FIRE PROTECTION KEYED NOTES:

- 1 PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEMS SHALL BE DESIGNED PER NFPA 13 AND IRC REQUIREMENTS FOR A FULLY SPRINKLER BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES.
- 2 PROVIDE SPRINKLER PROTECTION BENEATH THE ACCESSIBLE STAIR LANDING.
- 3 DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70. NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
- 4 PROVIDE AN AUDIO/VISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
- 5 PROVIDE SIAMESE WALL MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
- 6 PROVIDE A NEW MINIMUM 6" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 7 PROVIDE SPRINKLER PROTECTION BENEATH OVERHEAD DOOR IN ACCORDANCE WITH NFPA 13. PIPING SHALL BE SUPPORTED BY HANGERS ATTACHED TO STRUCTURE, NOT DOOR TRACKS.
- 8 LOCATION OF NEW HVLS FANS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION OF HVLS FAN. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR INSTALL PIPING AND SPRINKLERS IN A MANNER THAT PROVIDES REQUIRED CLEARANCES TO HVLS FANS PER NFPA 13 AND MANUFACTURER'S REQUIREMENTS.
- 9 AREA TO BE PROTECTED BY THE DRY-PIPE SPRINKLER SYSTEM. NO SPRINKLER PIPING OR COMPONENTS SHALL BE INSTALLED EXPOSED IN THIS AREA. ALL SPRINKLER SYSTEM PIPING AND COMPONENTS IN THIS AREA SHALL BE CONCEALED ABOVE THE SOFFIT PANEL. CONTRACTOR IS RECOMMENDED TO UTILIZE FLEXIBLE ARM COVERS IN THIS AREA TO MINIMIZE COORDINATION ISSUES BETWEEN SPRINKLER OPENINGS CUT IN THE SOFFIT PANEL AND THE PIPED SPRINKLER LOCATIONS.
- 10 SPRINKLERS AND PIPING IN THIS AREA SHALL HAVE A CORROSION RESISTANT FINISH.
- 11 PIPING TO BE HELD AS HIGH AS POSSIBLE ABOVE MEZZANINE. LOCATE SPRINKLER PIPING TO MAINTAIN A MINIMUM 8'-0" CLEAR HEIGHT ABOVE THE MEZZANINE.



1 FIRE PROTECTION RISER MANIFOLD - MAINTENANCE

SCALE: 1/4" = 1'-0"

FIRE PROTECTION PLAN - MAINTENANCE MEZZANINE
SCALE: 1/8" = 1'-0"
NORTHFIRE PROTECTION PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH

KEY PLAN

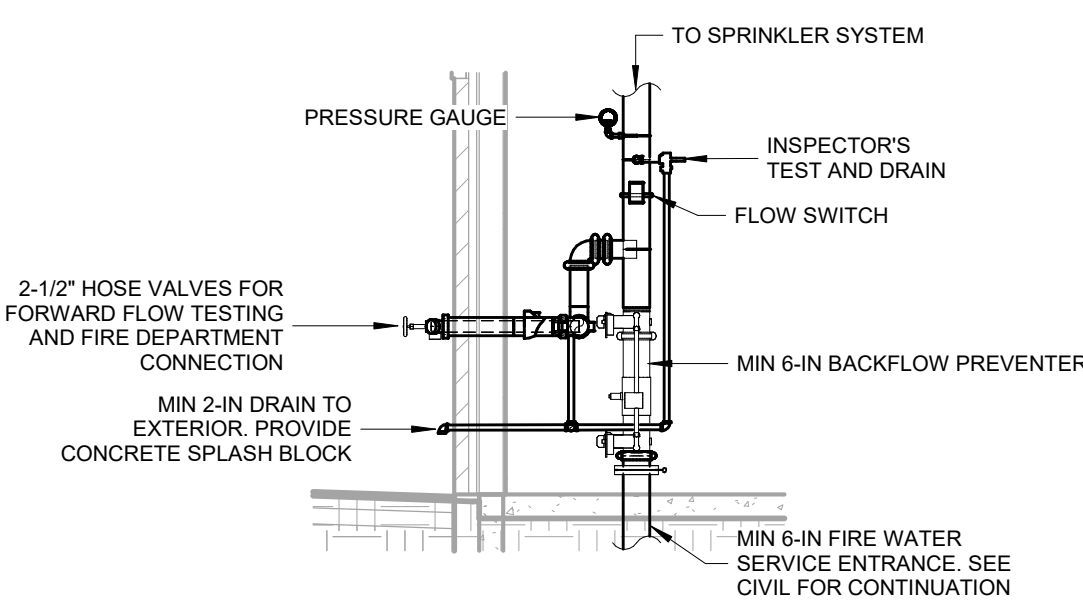
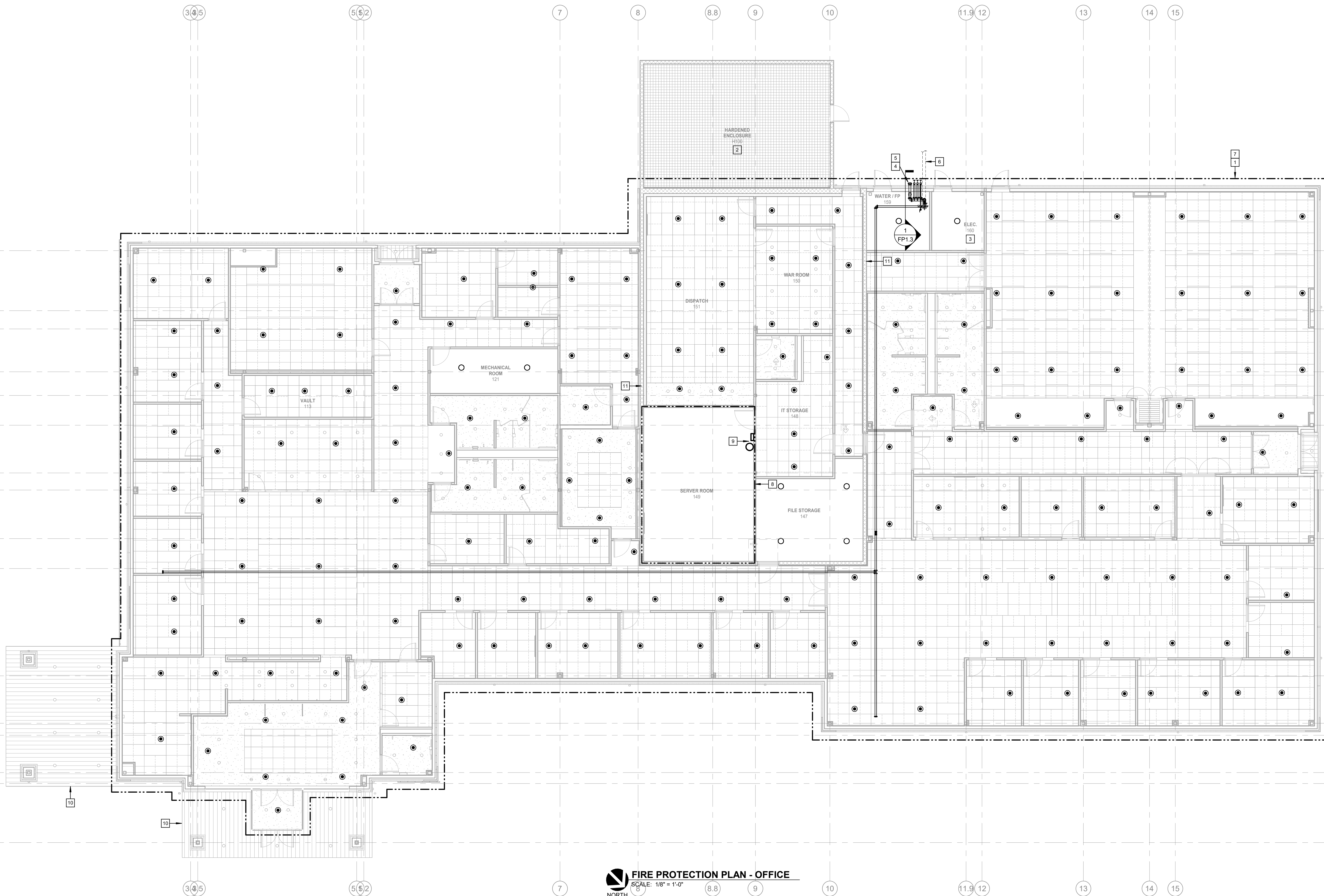
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FIRE PROTECTION GENERAL NOTES:

1. REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPING ARE SHOWN ONLY FOR GENERAL REFERENCE AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL DESIGN, LOCATE, AND PROVIDE ALL EQUIPMENT, SPRINKLERS, VALVES, PIPE ARRANGEMENTS, AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION KEYED NOTES:

1. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEMS SHALL BE DESIGNED PER NFPA 13 AND IRC REQUIREMENTS FOR A FULLY SPRINKLER BUILDINGS. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES.
2. HARDENED ENCLOSURE HAS A GRATE LID. NO FIRE SPRINKLER PROTECTION REQUIRED.
3. DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70 (2014/2017/2020/2023 EDITION). NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
4. PROVIDE AN AUDIOVISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
5. PROVIDE SIAMESE WALL MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
6. PROVIDE A NEW MINIMUM 8" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
7. PROVIDE AN AUTOMATIC AIR VENT FOR THE WET PIPE SPRINKLER SYSTEM, LOCATED AT THE HIGH POINT IN THE SYSTEM. THE AUTOMATIC AIR VENT SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. ACCESS POINT SHALL BE LABELED IF LOCATED ABOVE A CEILING. PROVIDE CEILING ACCESS PANEL AS REQUIRED. REFER TO DETAIL ON SHEET FP0.1 AND SPECIFICATION 21050 FOR MORE INFORMATION. COORDINATE WIRING REQUIREMENTS AND FINAL LOCATION WITH THE FIRE ALARM CONTRACTOR.
8. PROVIDE A CLEAN AGENT SYSTEM INCLUDING DEDICATED RELEASING PANEL, CLEAN AGENT STORAGE TANK, DETECTION DEVICES, AUDIOVISUAL ALARMS, MANUAL PULL STATIONS, SMOKE SWITCHES, ETC. VERIFY - WET SYSTEM NOT REQUIRED TO SUPPLEMENT CLEAN AGENT SYSTEM, PER AHJ.
9. SPACE ALLOCATION FOR CLEAN AGENT SYSTEM 350LB TANK. SYSTEM TANK IS ESTIMATED IN SIZE BASED ON ROOM VOLUME. FINAL TANK REQUIREMENTS AND SIZE SHALL BE DETERMINED BY THE ENGINEER OF RECORD FOR THE CLEAN AGENT SYSTEM. TANK SIZE SHOWN FOR SPACE ALLOCATION ONLY. COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES BASED ON FINAL CALCULATIONS FOR SYSTEM REQUIREMENTS.
10. SPRINKLER PROTECTION IS PERMITTED TO BE OMITTED FROM WITHIN EXTERIOR CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS, AND SIMILAR PROJECTIONS THAT ARE CONSTRUCTED WITH MATERIALS THAT ARE NONCOMBUSTIBLE, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD AS DEFINED IN NFPA 703 PER NFPA 13 SECTION 8.15.7.2, 2 (2015/2019 EDITION) OR 2.3.1 (2019 EDITION) OR 2.3.2 (2022 EDITION).
11. SPRINKLER MAINS SHALL NOT BE ROUTED THROUGH THE HARDENED AREA. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AS NECESSARY FOR INFORMATION REGARDING THE HARDENED AREA CONSTRUCTION. PENETRATIONS THROUGH THE HARDENED AREA SHALL BE LIMITED TO THE PIPING PENETRATIONS REQUIRED TO PROTECT THE SPACES WITHIN.

1 FIRE PROTECTION RISER MANIFOLD - OFFICE
SCALE: 1/4" = 1'-0"FIRE PROTECTION PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH