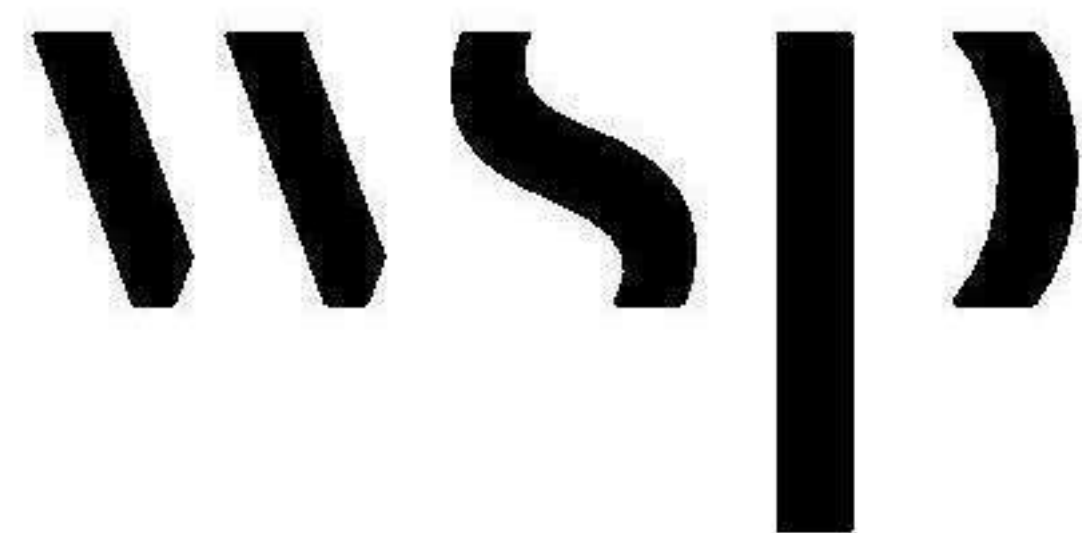


UNION STATION REDEVELOPMENT CORPORATION

50 MASSACHUSETTS AVE NE,
WASHINGTON, DC 20002

UNION STATION GARAGE

PM SUPPORT SERVICES
FIRE ALARM UPGRADE



WSP USA Buildings Inc
1300 N 17TH ST, SUITE 1000
ARLINGTON VA, 22209
(202) 362-2800
wsp.com

	Permit / Bid	10/3/2025
NO.	REVISION	DATE

APPLICABLE CODE	
BUILDING CODE	IBC 2021
ENERGY CODE	IECC 2021
FIRE CODE	IFC 2021
ELECTRICAL CODE	NFPA 70NATIONAL ELECTRIC CODE 2017
DESIGN AND CONSTRUCTION	25C/S/17-10, 2017
PROJECT DEVELOPMENT PROCEDURES	PDP 2022

FIRE ALARM SYSTEM UPGRADE

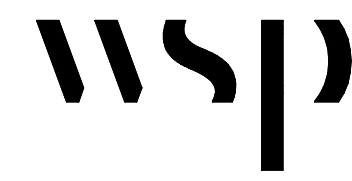
ARCHITECTURAL DRAWING LIST - FA	
DRAWING NO.	DESCRIPTION
CS0.1	COVER SHEET

FIRE ALARM DRAWING LIST - FA	
DRAWING NO.	DESCRIPTION
FA0-03	ELECTRICAL - LEGENDS & ABBREVIATIONS
FA0-0N-3	FIRE ALARM - UPPER TRACK LEVEL - NEW WORK - NORTH
FA0-0N-4	FIRE ALARM - UPPER TRACK LEVEL - NEW WORK - SOUTH
FA0-01S-3	FIRE ALARM - GALLERY LEVEL - NEW WORK - SOUTH
FA0-0N-3	FIRE ALARM - BUS LEVEL - NEW WORK - NORTH
FA0-0N-4	FIRE ALARM - BUS LEVEL - NEW WORK - SOUTH
FA0-0N-3	FIRE ALARM - MEZZANINE LEVEL - NEW WORK - NORTH
FA0-0N-4	FIRE ALARM - MEZZANINE LEVEL - NEW WORK - SOUTH
FA0-01S-3	FIRE ALARM - FIRST LEVEL - NEW WORK - SOUTH
FA0-01S-4	FIRE ALARM - FIRST LEVEL - NEW WORK - SOUTH
FA0-0N-3	FIRE ALARM - SECOND LEVEL - NEW WORK - NORTH
FA0-0N-4	FIRE ALARM - SECOND LEVEL - NEW WORK - SOUTH
FA0-0N-3	FIRE ALARM - THIRD LEVEL - NEW WORK - NORTH
FA0-0N-4	FIRE ALARM - THIRD LEVEL - NEW WORK - SOUTH
FA0-07N-3	FIRE ALARM - FOURTH LEVEL - NEW WORK - NORTH
FA0-07N-4	FIRE ALARM - FOURTH LEVEL - NEW WORK - SOUTH
FA0-07S-3	FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - NORTH
FA0-07S-4	FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - SOUTH
FA0-01S-3	FIRE ALARM - ANNUNCIATOR PANEL - FIRE DEPARTMENT CONNECTION
FA0-01S-4	FIRE ALARM - ANNUNCIATOR PANEL - SECURITY OFFICE
FA0-024	FIRE ALARM - ANNUNCIATOR PANEL - MAIN ENTRANCE
FA0-01S-3	FIRE ALARM - SYSTEM MATRIX
FA0-01S-4	FIRE ALARM - SYSTEM MATRIX
FA0-01S-3	FIRE ALARM - SPECS
FA0-01S-4	FIRE ALARM - SPECS
FA0-01S-3	FIRE ALARM - SPECS
FA0-01S-4	FIRE ALARM - SPECS

STRUCTURAL NOTES:

- A. EXAMINATION REQUIRED PRIOR TO CUTTING, DRILLING, CORING OR ANCHORING INTO THE EXISTING STRUCTURE.
1. DO NOT CUT, DRILL, CORE OR ANCHOR INTO ANY STRUCTURAL ELEMENT UNLESS IT IS FIRST WRITTEN APPROVAL FROM USRSC'S ENGINEER OF RECORD (USRSC'S EOR), UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL SCAN THE CONCRETE AT ALL LOCATIONS OF PROPOSED PENETRATIONS, STRANDS OR ANCHORAGES TO LOCATE AND MARK ALL EMBEDDED OBJECTS INCLUDING BUT NOT LIMITED TO EMBEDDED REINFORCEMENT, PRESTRESS OR POST-TENSION STRANDS, EMBEDDED CONDUIT, ELECTRICAL, ELECTRICAL CONDUIT, AND ANY OTHER EMBEDDED HARDWARE/EQUIPMENT. SCANNING SHALL BE PERFORMED BY A CERTIFIED TECHNICIAN USING A GROUND PENETRATING RADAR (GPR) SYSTEM. COMPLETE SCANNING SYSTEM SUCH AS CONQUEST BY SENSORS & SOFTWARE INC. OR EQUAL. CALIBRATE AND RECALIBRATE THE SCANNER IN ACCORDANCE WITH CALIBRATIONS MADE BY THE MANUFACTURER AT THE BEGINNING OF EACH SHIFT AND WHEN CONDITIONS CHANGE. PROVIDE THE CALIBRATION OF EACH SCANNER ON A TEST LOCATION OR TEST PIECE ACCEPTED BY USRSC'S EOR. SCANNING AT LEAST 10' DEPTH. PROVIDE A LOG OF THE SCANNER AND HAMMER DRILLED TEST HOLES TO DETERMINE DEPTH OF COVER. DO NOT CALIBRATE AT POST-TENSION STRANDS SINCE THE HAMMER DRILL BIT WILL DAMAGE THE POST-TENSION SHEATHING AND STRAND.
3. ADJUST LOCATIONS OF CUTS, PENETRATIONS AND ANCHORAGES AS REQUIRED TO AVOID EMBEDDED OBJECTS BY A MINIMUM OF 12", UNLESS NOTED OTHERWISE BY USRSC'S EOR.
4. SUBMIT SCANNING REPORTS INCLUDING PHOTOGRAPHS AND SCALED DRAWINGS AND/OR SKETCHES, TO USRSC'S EOR AND APPLICABLE DESIGN TEAM TO REVIEW AND APPROVE OR COMMENT ON PROPOSED PENETRATIONS AND ANCHORAGES. ADJUST THE LOCATIONS AS DIRECTED BY USRSC'S EOR AND/OR DESIGN TEAM. REVIEW TIME IS 7 TO 14 DAYS DEPENDING UPON THE QUALITY AND COMPLEXITY OF THE SUBMISSION.
5. USE HAMMER DRILLS WHEN POSSIBLE; DO NOT CORE. DRILL UNLESS THE SCANNING OPERATION HAS CLEARLY SHOWN THAT THE AREA IS FREE OF EMBEDDED OBJECTS.
6. DO NOT CUT THROUGH OR FORCE THE EMBEDDED REINFORCING, PRESTRESS OR POST-TENSION STRANDS, EMBEDDED CONDUIT, ELECTRICAL, ELECTRICAL CONDUIT, AND ANY OTHER EMBEDDED HARDWARE/EQUIPMENT. IF PRESTRESS STRANDS, POST-TENSION STRANDS, OR OTHER EMBEDDED OBJECTS ARE INADVERTENTLY CUT OR DAMAGED, THE TENANT/CONTRACTOR MUST NOTIFY THE LANDLORD (USRSC) AND THE USRSC'S EOR IMMEDIATELY.

MEPFPT Engineer:



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wsp.com

Architect:

Structural Engineer

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

	PERMIT / BID	OCT 3, 2017

NO.	REVISION	DATE
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PROJECT

PM SUPPORT SERVICES FIRE ALARM SYSTEM UPGRADE

OWNER

UNION STATION
REDEVELOPMENT
CORPORATION

TITLE	
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COVER SHEET

PROJECT NO.: US-WSP-192801E		CS0.1
DATE: 10/03/2025		
DWN. BY: Author	CKD. BY: Checker	
SCALE: 12" = 1'-0"		

FIRE ALARM LEGEND	
	MANUAL PULL STATION
	AREA SMOKE DETECTOR, CEILING MOUNTED (SMOKE DETECTOR, SEM-FLUSH MOUNTED IN CEILING)
	AREA SMOKE DETECTOR, WALL MOUNTED
	DUCT TYPE SMOKE DETECTOR
	HEAT DETECTOR, CEILING MOUNTED
	COMBINATION SMOKE/ CO DETECTOR, CEILING MOUNTED
	COMBINATION SMOKE/ CO DETECTOR, WALL MOUNTED
	SPRINKLER WATER FLOW MONITOR MODULE
	SPRINKLER TAMPER MONITOR MODULE
	PRESSURE SWITCH WITH HILO SUPERVISORY SWITCH
	FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM SPEAKER, WALL MOUNTED
	COMBINATION FIRE ALARM SPEAKER/VISUAL ALARM, WALL MOUNTED
	COMBINATION FIRE ALARM SPEAKER/VISUAL ALARM, CEILING MOUNTED
	FIRE ALARM HORN, CEILING MOUNTED
	FIRE ALARM HORN, WALL MOUNTED
	COMBINATION FIRE ALARM HORN/VISUAL ALARM, WALL MOUNTED
	VISUAL ALARM, CEILING MOUNTED
	VISUAL ALARM, WALL MOUNTED
	FIREFIGHTER'S PHONE JACK
	FIREFIGHTER'S TWO-WAY COMMUNICATION HANDSET
	MAGNETIC DOOR HOLDER
	REMOTE ALARM LAMP
	FIRE SMOKE DAMPER
	SMOKE DAMPER
	FIRE ALARM AND CONTROL PANEL
	FIRE ALARM REMOTE PANEL
	FIRE ALARM TERMINAL CABINET
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	FIREFIGHTER'S TELEPHONE SYSTEM
	VOICE COMMUNICATION SYSTEM
	FIREFIGHTER'S CONTROL AND INDICATING PANEL
	FIRE PUMP REMOTE STATUS PANEL
	GENERATOR REMOTE STATUS PANEL
	BATTERY
	FIRE ALARM VOICE EVACUATION PANEL
	DIGITAL ALARM COMMUNICATOR TRANSMITTER
	EMERGENCY EGRESS PATH
	SHEET NOTE

ABBREVIATIONS	
CL	CENTER LINE
A	AMPERES
AC	ABOVE COUNTERTOP
AFIAS	AMPERE RATING OF FUSE/SWITCH
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ATIAF	AMPERE RATING OF CIRCUIT BREAKER TRIP/FRAME
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIOVISUAL
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT (GENERIC TERM FOR RACEWAY - PROVIDE AS SPECIFIED)
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CARBON DIOXIDE
CP	CONTROL PANEL
CT	COOK TOP
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DW	DISHWASHER
DWG	DRAWING
DZ	DAYLIGHT ZONE
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT/ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FCC	FIRE CONTROL CENTER
FP	FIRE PROTECTION
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR
GND	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING INSTALLER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MIC	MINERAL INSULATED CABLE
MLO	MAIN LUGS ONLY
MS	MANUAL SWITCH
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
(N)	NEW
NIC	NOT IN CONTACT
NTS	NOT TO SCALE
P	POLE
PB	PULL BOX
PH	PHASE
PWR	POWER
(R)	EXISTING TO BE RELOCATED
RAC	RIGID ALUMINUM CONDUIT
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RSC	RIGID STEEL CONDUIT
SIM	SIMILAR
TEL	TELECOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF
(X)	EXISTING TO BE REMOVED

CODES AND STANDARDS

THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL BUILDING CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO:

- STATE, COUNTY, AND CITY HEALTH AND BUILDING CODES
- NFPA 13, 2016 EDITION
- NFPA 70, 2017 EDITION
- NFPA 72, 2016 EDITION
- NFPA 99, STANDARD FOR HEALTHCARE FACILITIES, 2018 EDITION
- NFPA 101, LIFE SAFETY CODE, 2018 EDITION
- OTHER NFPA CODES AS REFERENCED BY STANDARD CODES
- ANSI A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, 2010 EDITION

NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED

FIRE ALARM SCOPE OF WORK:

- REMOVE ENTIRE EXISTING FIRE ALARM SYSTEM THROUGHOUT IN GARAGE BUILDING INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANEL, FIRE ALARM TERMINAL CABINET, NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER SUPPLY PANEL, AUDIBLE INDICATING DEVICES, VISUAL INDICATING DEVICES, REMOTE ALARM LAMPS ASSOCIATED WITH FIRE PROTECTION SYSTEM, ALL FIRE ALARM CONDUCTORS AND ASSOCIATED EXPOSED CONDUITS, FIRE ALARM JUNCTION BOXES, INTERFACE MODULES ASSOCIATED WITH FIRE PROTECTION SYSTEM WATER FLOW SWITCHES, VALVE TAMPER SWITCHES, AS WELL AS HIGH AND LOW PRESSURE SWITCHES FOR DRY PIPE SYSTEM.
- PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM AS INDICATED, IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS AND COMPLYING WITH APPLICABLE PORTIONS OF NEC.
- ALL EXISTING FIRE PROTECTION DEVICES INCLUDING BUT NOT LIMITED TO TAMPER SWITCHES, FLOW SWITCHES, AND HIGH AND LOW PRESSURE SWITCHES SHALL ALL BE EXISTING TO REMAIN. REPLACE ALL ASSOCIATED FIRE ALARM MONITOR AND CONTROL INTERFACE MODULES WITH NEW FOR ALL EXISTING PROTECTION DEVICES AND WIRED BACK TO FIRE ALARM CONTROL PANEL. PROVIDE ADDITIONAL MODULES PER EXISTING CONDITION TO ENSURE ALL EXISTING FIRE PROTECTION DEVICES WILL BE INTERFACED WITH NEW FIRE ALARM SYSTEM.
- REPLACE ALL EXISTING FIRE ALARM DEVICES AND INTERFACE MODULES IN ELEVATOR MACHINE ROOMS AND ELEVATOR SHAFTS.
- REPLACE ALL EXISTING FIRE ALARM DEVICES AND INTERFACE MODULES IN FOUR DRY VALVE ROOMS.
- REPLACE ALL EXISTING FIRE ALARM DEVICES AND INTERFACE MODULES IN FIRE PUMP ROOM.
- CONDUIT CONCEALED IN CAST IN PLACE CONCRETE MAY BE ABANDONED IN PLACE IF CUT FLUSH TO THE SURFACE. CONDUIT CONCEALED IN THE CAST IN PLACE CONCRETE MAY BE REUSED AT THE CONTRACTOR'S DISCRETION IF HE WARRANTS IT AND IF THE CONDUIT IS OF ADEQUATE SIZE FOR THE CONDUCTORS.
- NUMBER OF CONDUCTORS, SIZE, TYPE AND COLOR CODE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL PER MANUFACTURER'S POINT-TO-POINT WIRING DIAGRAM. DETERMINE EXACT NUMBER OF WIRES FOR EACH FIRE ZONE FROM NUMBER AND TYPES OF DEVICES INSTALLED. WHERE THERE ARE A NUMBER OF POWER REQUIRING DEVICES, SUCH AS SMOKE DETECTORS, FAN RELAYS, DOOR HOLDERS, STROBE LIGHTS, AND SMOKE DAMPER OPERATORS INSTALLED IN A CIRCUIT, GROUP IN NUMBERS SO POWER REQUIRED DOES NOT EXCEED 80% OF MANUFACTURER'S POWER SUPPLY RATING. PROVIDE EXTRA WIRING, OR EXTRA POWER SUPPLIES REQUIRED TO FULFILL THAT REQUIREMENT. IN ADDITION, PROVIDE EXTRA OR LARGER SIZE WIRING TO ALLEVIATE VOLTAGE DROPS WHICH MAKES DEVICE OPERATE BEYOND VOLTAGE LIMITS FOR WHICH IT WAS DESIGNED. DETERMINE ABOVE WITH MANUFACTURER'S REPRESENTATIVE WHILE EQUIPMENT IS BEING INSTALLED.
- REFER TO FLOOR PLANS FOR DEVICE LOCATIONS. FINAL QUANTITY OF FIRE ALARM DEVICES TO BE DETERMINED FROM FIRE ALARM AND FIRE PROTECTION SYSTEM MANUFACTURER'S APPROVED SHOP DRAWINGS.
- LOCATION, SIZE, AND FINISH OF FIRE ALARM ANNUNCIATE PANELS SHALL BE COORDINATED WITH OWNER / FIRE MARSHAL PRIOR TO FABRICATION.
- PROVIDE SIZE AND NUMBER OF CONDUCTORS PER FIRE ALARM EQUIPMENT SUPPLIER.
- MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUIT SHALL BE 3/4".
- ALL FIRE ALARM CABINETS, TERMINAL BOXES, RACEWAYS, AND JUNCTION BOXES SHALL BE PAINTED RED.
- REFER TO FIRE ALARM SPECIFICATION FOR ADDITIONAL SCOPE OF WORK AND DETAILED SYSTEM REQUIREMENTS.
- SHOP DRAWINGS FOR THE FOLLOWING SYSTEM SHALL BE SUBMITTED TO THE OFFICE OF THE FIRE MARSHAL FOR PERMIT AND APPROVAL PRIOR TO INSTALLATION:
 - FIRE PROTECTION, FIRE DETECTION AND ALARM, ETC.
 - ACCESS CONTROL, LOCKS OR SPECIAL LOCKING ARRANGEMENTS
- PROVIDE A COMPLETE SET OF SHOP DRAWINGS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER AS A SUBCONTRACTOR AS THE ENGINEER OF RECORD FOR THE SYSTEM.

Structural Notes:

- Examination required prior to cutting, drilling, coring or anchoring into the existing structure.
 - Do not cut, drill, core or anchor into any structural element without prior written approval from USRC's Engineer of Record (USRC's EOR), unless noted otherwise.
 - The contractor shall scan the concrete at all locations of proposed cuts, penetrations or anchorages to locate and mark all embedded objects including but not limited to embedded reinforcement, prestress or post-tension strands, embedded connections, electrical conduit, and any other embedded hardware/equipment. Scanning shall be performed by a certified technician using a Ground Penetrating Radar (GPR) concrete scanning system such as Conquest by Sensors & Software Inc. or equal. Calibrate and recalibrate the scanner in accordance with . Calibrations must be performed at the beginning of each shift and when conditions change. Prove the calibration of each scanner on a test location or test piece accepted by USRC's EOR, locating at least three reinforcing bars using the scanner and hammer drilled test holes to determine depth of cover. Do not calibrate at post-tension strands since the hammer drill bit will damage the post-tension sheathing and strand.
 - Adjust locations of cuts, penetrations and anchorages as required to avoid embedded objects by a minimum of 3" unless noted otherwise by USRC's EOR. Submit scanning reports including photographs and scaled drawings and/or sketches, to USRC's EOR and applicable design team to review and approve or comment on proposed cuts, penetrations and anchorages. Adjust the locations as directed by USRC's EOR and/or design team. Review time is 7 to 14 days depending upon the quality and complexity of the submission.
 - Use hammer drills when possible; do not core drill unless the scanning operation has clearly shown that the area is free of embedded objects.
 - Do not cut through or damage the embedded reinforcing, prestress or post-tension strands, embedded objects/connections, electrical conduit, and any other embedded hardware/equipment. If prestress strands, post-tension strands, or other embedded objects are inadvertently damaged, the Tenant/Contractor must notify the Landlord (USRC) and USRC's EOR immediately.

FIRE ALARM SCOPE OF WORK ASSOCIATED WITH EXISTING ELEVATORS AND ESCALATORS:

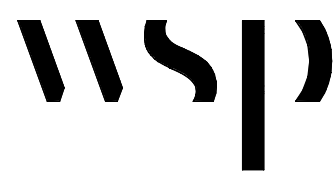
- ELEVATOR CONTRACTOR (SCHINDLER) SHALL PROVIDE ALL REQUIRED MANPOWER AND MATERIALS, AS NEEDED, FOR COORDINATION OF FIRE ALARM TIE-INS. ELECTRICAL CONTRACTOR SHALL BRING WIRING AND CONDUIT TO ELECTRICAL PULL BOX FOR FIRE ALARM TIE-INS ON SCHINDLER'S ELEVATOR DUCT IN ELEVATOR MACHINE ROOMS.
- SCHINDLER SHALL MAKE FINAL CONNECTIONS, AND PROGRAM ELEVATOR AND ESCALATOR EQUIPMENT TO RESPOND TO SIGNALS FROM FIRE ALARM SYSTEM. ELEVATORS SHALL RECALL TO PRIMARY FLOOR EXCEPT IF INITIATING SIGNAL EMANATES FROM THAT FLOOR, IN WHICH CASE ELEVATORS SHALL RECALL TO A DESIGNATED ALTERNATE LANDING. ALL ESCALATORS IN THE GARAGE SHALL BE TAKEN OUT OF SERVICE DURING EMERGENCY WHEN FIRE ALARM GOES OFF.
 - FOR ELEVATOR #1:
 - PRIMARY FLOOR: BUS DECK
 - ALTERNATE FLOOR: ALTERNATE LEVEL ASSIGNMENT SHALL BE DETERMINED BY FIRE DEPARTMENT
 - FOR ELEVATOR #2:
 - PRIMARY FLOOR: BUS DECK
 - ALTERNATE FLOOR: ALTERNATE LEVEL ASSIGNMENT SHALL BE DETERMINED BY FIRE DEPARTMENT
 - FOR ELEVATOR #3:
 - PRIMARY FLOOR: BUS DECK
 - ALTERNATE FLOOR: MEZZANINE
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SCHINDLER TO ACCOMPLISH ELEVATOR RECALL SEQUENCE.
- SCHINDLER SHALL ADVISE ELECTRICAL CONTRACTOR WHERE ARE THE LOCATIONS FOR BRINGING FIRE ALARM WIRING AND CONDUITS INTO ESCALATOR TRUSSES, (E.G., TOP OF THE ESCALATORS, OR THE BOTTOM).
- SCHINDLER SHALL TEST DEVICES AND EQUIPMENT TO ENSURE PROPER OPERATION.
- GENERAL CONTRACTOR SHALL INCLUDE ALL COSTS IN THE BID ASSOCIATED WITH ELECTRICAL CONTRACTOR'S FIRE ALARM TIE-INS AS WELL AS THE COSTS ASSOCIATED WITH SCOPE OF WORK BY ELEVATOR CONTRACTOR (SCHINDLER) TO MAKE FINAL CONNECTIONS, PROGRAMMING, AND TESTING AS DESCRIBED ABOVE.

ELECTRICAL DRAWING LIST - FIRE ALARM SYSTEM UPGRADE

DRAWING NO.	DESCRIPTION
FA0.00-3	ELECTRICAL - LEGENDS & ABBREVIATIONS
FA2.00N-3	FIRE ALARM - UPPER TRACK LEVEL - NEW WORK - NORTH
FA2.00S-3	FIRE ALARM - UPPER TRACK LEVEL - NEW WORK - SOUTH
FA2.01S-3	FIRE ALARM - GALLERY LEVEL - NEW WORK - SOUTH
FA2.02N-3	FIRE ALARM - BUS LEVEL - NEW WORK - NORTH
FA2.02S-3	FIRE ALARM - BUS LEVEL - NEW WORK - SOUTH
FA2.03N-3	FIRE ALARM - MEZZANINE LEVEL - NEW WORK - NORTH
FA2.03S-3	FIRE ALARM - MEZZANINE LEVEL - NEW WORK - SOUTH
FA2.04N-3	FIRE ALARM - FIRST LEVEL - NEW WORK - NORTH
FA2.04S-3	FIRE ALARM - FIRST LEVEL - NEW WORK - SOUTH
FA2.05N-3	FIRE ALARM - SECOND LEVEL - NEW WORK - NORTH
FA2.05S-3	FIRE ALARM - SECOND LEVEL - NEW WORK - SOUTH
FA2.06N-3	FIRE ALARM - THIRD LEVEL - NEW WORK - NORTH
FA2.06S-3	FIRE ALARM - THIRD LEVEL - NEW WORK - SOUTH
FA2.07N-3	FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - NORTH
FA2.07S-3	FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - SOUTH
FAS.00-3	FIRE ALARM - RISER DIAGRAM
FAS.01-3	FIRE ALARM - ANNUNCIATOR PANEL - FIRE DEPARTMENT CONNECTION
FAS.02-3	FIRE ALARM - ANNUNCIATOR PANEL - SECURITY OFFICE
FAS.02-4	FIRE ALARM - ANNUNCIATOR PANEL - MAIN ENTRANCE
FAS.03-3	FIRE ALARM - SYSTEM MATRIX
FA7.00-3	FIRE ALARM - DETAILS
FAB.00-3	FIRE ALARM - SPECS
FAB.01-3	FIRE ALARM - SPECS
FAB.02-3	FIRE ALARM - SPECS
FAB.03-3	FIRE ALARM - SPECS

Grand total: 26

MEP/PT Engineer:



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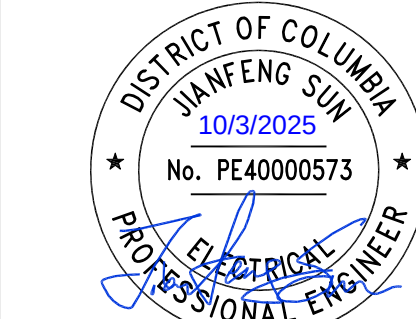
Architect:

Structural Engineer:

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

PERMIT / BID OCT 3, 2025

NO. REVISION DATE



PROJECT

PM SUPPORT SERVICES
FIRE ALARM SYSTEM UPGRADE

OWNER

UNION STATION REDEVELOPMENT CORPORATION

TITLE

ELECTRICAL - LEGENDS & ABBREVIATIONS

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

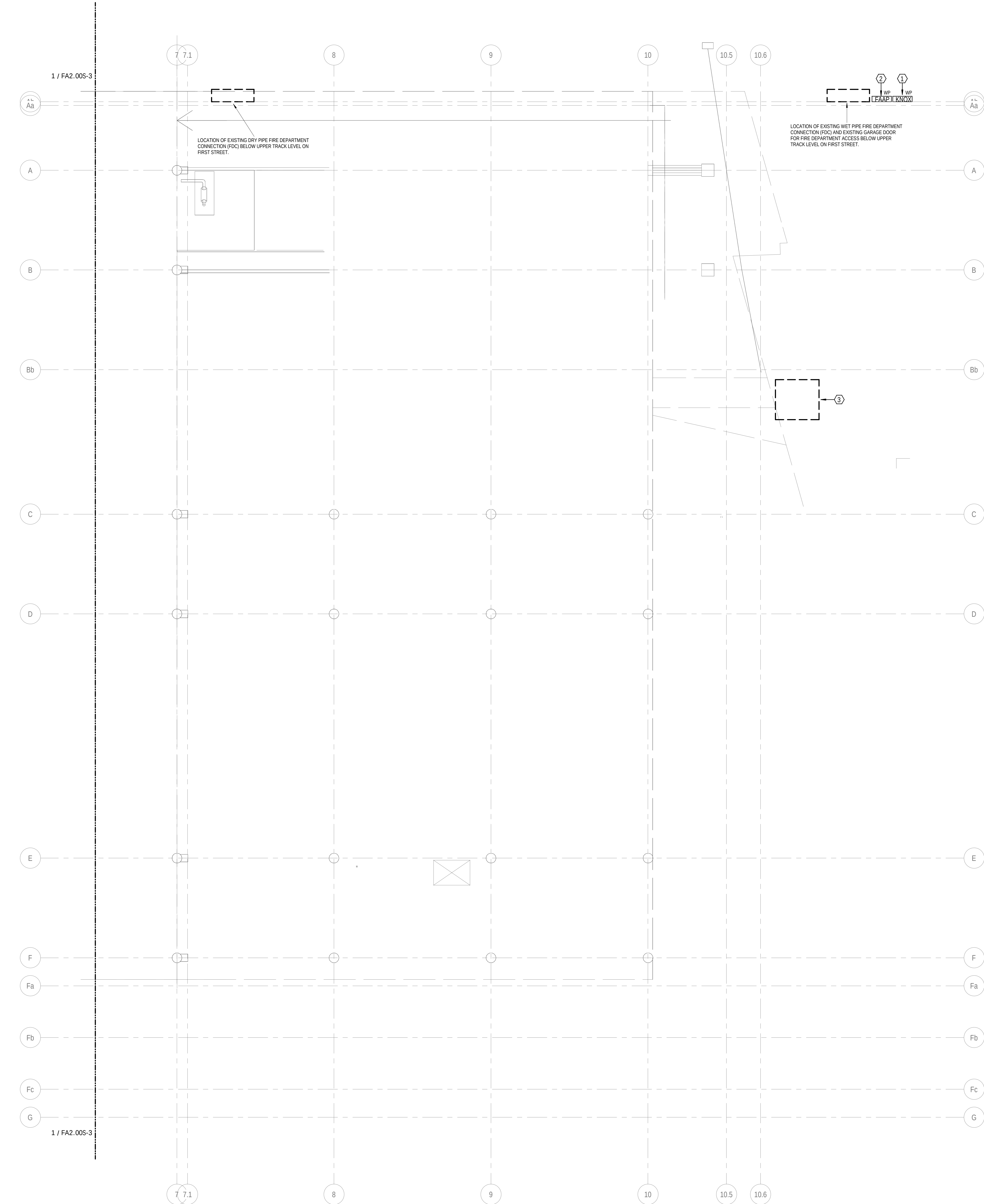
DWN. BY: Author

CKD. BY: Checker

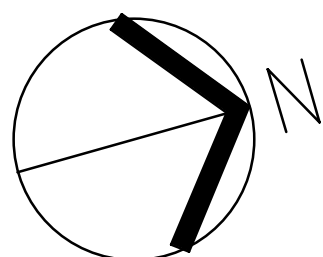
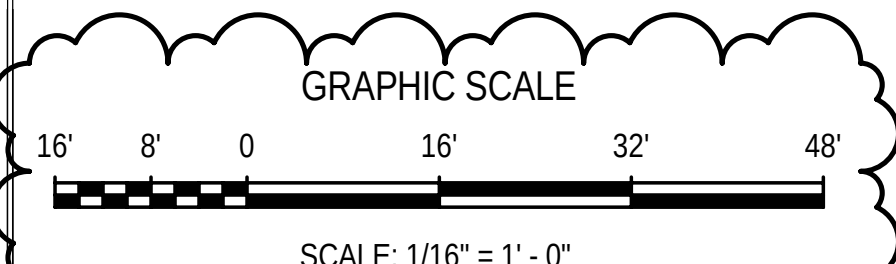
SCALE: 12" = 1'-0"

FA0.00-3

10/20/2025 4:05:05 PM Autodesk Docs\\RP200-PM Support Services-GenRm-R25 - C5SPM Support Services- GENERATOR ROOM_WSP_MEP_2025.rvt



1 FIRE ALARM - UPPER TRACK LEVEL - NEW WORK - FAS - NORTH
1/16" = 1'-0"



SHEET NOTES

- 1 PROVIDE SURFACE MOUNTED FIRE DEPARTMENT ACCESS KNOX BOX ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL ON FIRST STREET. KNOX BOX SHALL BE UL 1037 LISTED AND APPROVED BY DC FIRE DEPARTMENT PER DC FIRE CODE 2017 SECTION 550.
- 2 PROVIDE SURFACE MOUNTED FIRE ALARM GRAPHIC ANNUNCIATOR PANEL INSIDE NEMA 4X ENCLOSURE AND KEY LOCK ADJACENT TO FIRE DEPARTMENT CONNECTION (FDC) ON FIRST STREET. KEY FOR THE NEMA 4X ENCLOSURE TO BE PLACED INSIDE KNOX BOX.
- 3 LOCATION OF EXISTING FIRE PUMP ROOM INSIDE TUNNEL ON FIRST LEVEL (UNDER H STREET BRIDGE).

GENERAL NOTES

- A. REFER TO DRAWING FA0.00-3 FOR LEGENDS AND ABBREVIATIONS.
- B. FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AHD FOR APPROVAL.
- C. ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS WHERE SUBJECT TO WET CONDITIONS SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF BACKBOXES AND GASKETS. FIRE ALARM DEVICES IN THESE AREAS SHALL BE SUITABLE FOR THE ENVIRONMENT IN ACCORDANCE WITH NFPA 72.
- D. PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- E. ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.O.N.
- F. COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- G. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- H. ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- I. ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
- J. ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- K. FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

MEPFPT Engineer:



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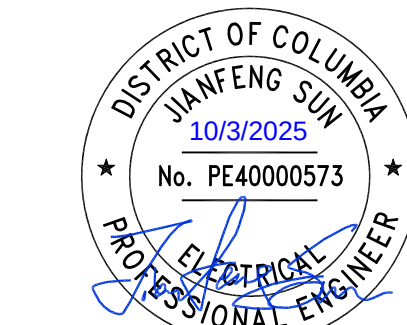
Architect:

Structural Engineer:

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PERMIT / BID OCT 3, 2025

NO. REVISION DATE



PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM - UPPER
TRACK LEVEL - NEW
WORK - NORTH**

PROJECT NO.: US-WSP-192801E

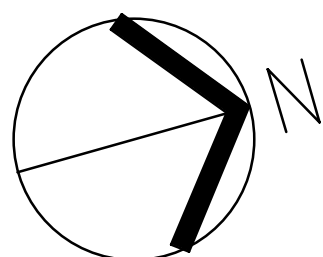
DATE: 10/03/2025

DWN. BY: Author

CKD. BY: Checker

SCALE: As indicated

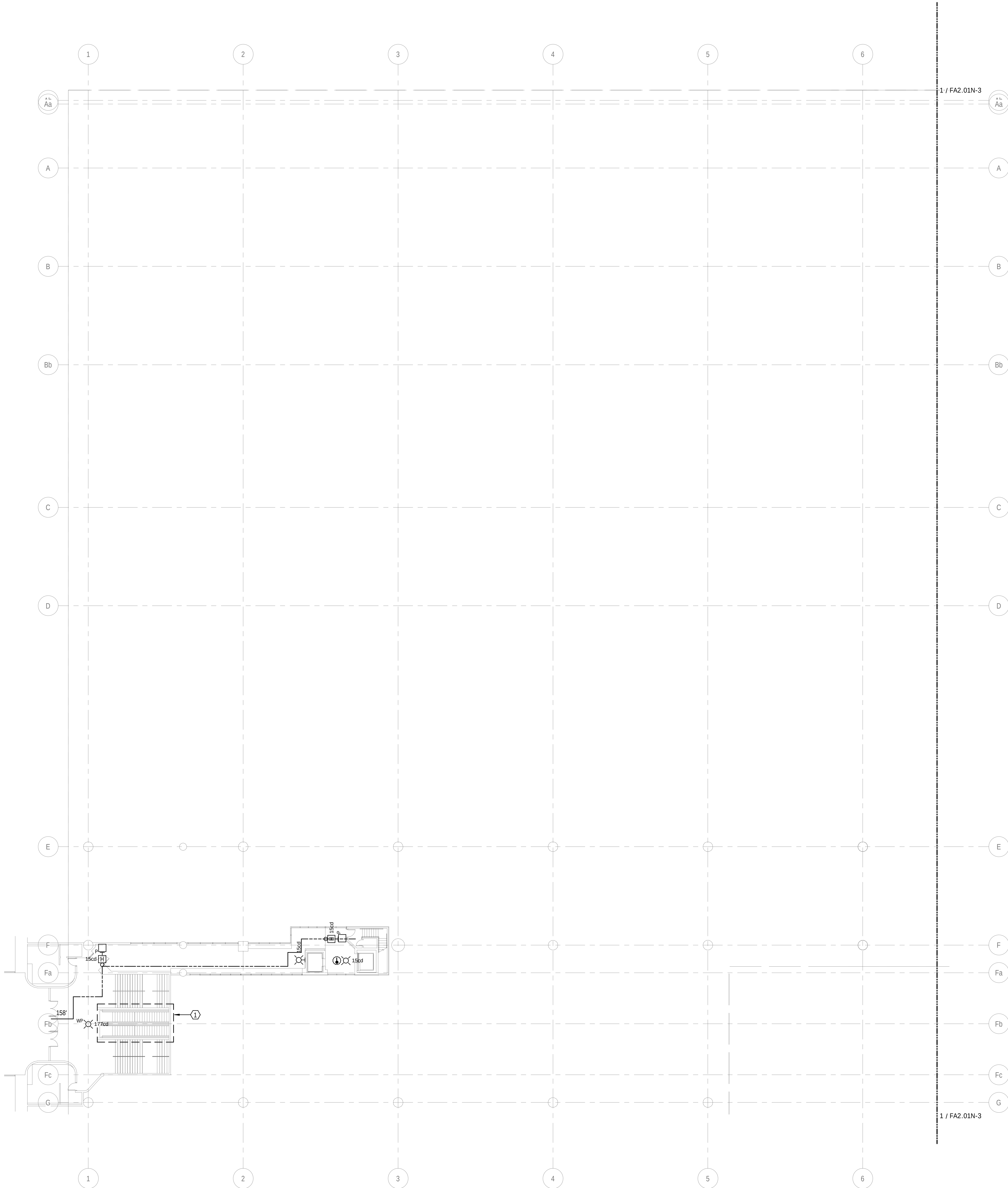
FA2.00N-3



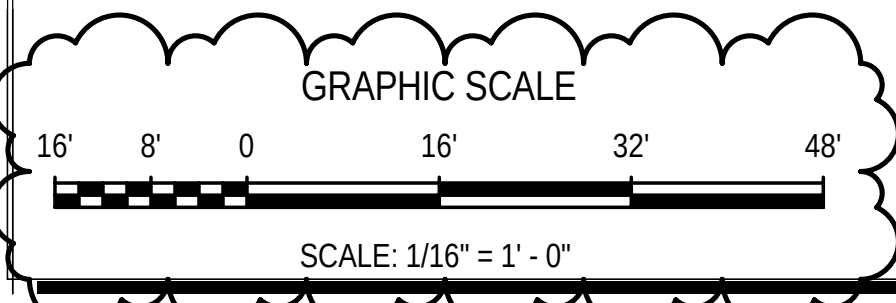
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Autodesk Docs://ARP200-PM Support Services- Gen Rm - R25 - C25/PM SUPPORT SERVICES - GENERATOR ROOM WSP MEP r2025.mt

10/20/2025 4:03:06 PM Autodesk Docs\\RP20-PM Support Services-GenRm-R25-C25PM Support Services-Generator Room_WSP_MEP_2025.rvt



1 FIRE ALARM - GALLERY LEVEL - NEW WORK - FAS - SOUTH
1/16" = 1'-0"



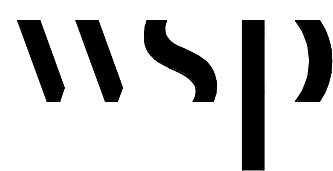
SHEET NOTES

- 1 INTERFACE EXISTING ESCALATORS WITH NEW FIRE ALARM SYSTEM. REPLACE ALL EXISTING FIRE ALARM DEVICES WITH NEW. COORDINATE WITH ESCALATOR CONTRACTOR TO PROVIDE ALL REQUIRED INTERFACE MODULES, WIRING, AND CONDUITS. REFER TO SHEET FA010-3 FOR MORE DETAILS ON SCOPE OF WORK.

GENERAL NOTES

- A. REFER TO DRAWING FA010-3 FOR LEGENDS AND ABBREVIATIONS.
- B. FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AHD FOR APPROVAL.
- C. ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS WHERE SUBJECT TO WET CONDITIONS SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF BACKBOXES AND GASKETS. FIRE ALARM DEVICES IN THESE AREAS SHALL BE SUITABLE FOR THE ENVIRONMENT IN ACCORDANCE WITH NFPA 72.
- D. PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- E. ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.O.N.
- F. COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- G. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- H. ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- I. ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
- J. ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- K. FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

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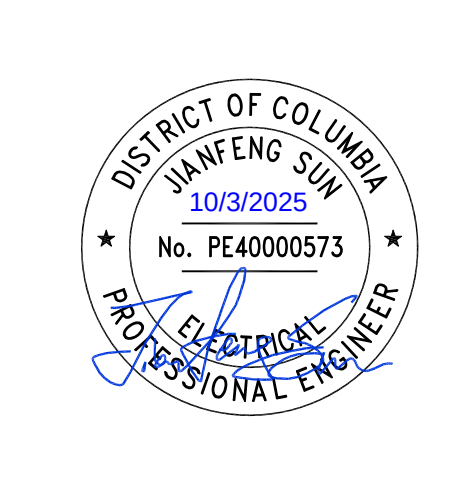
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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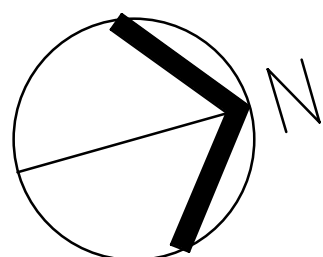


PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

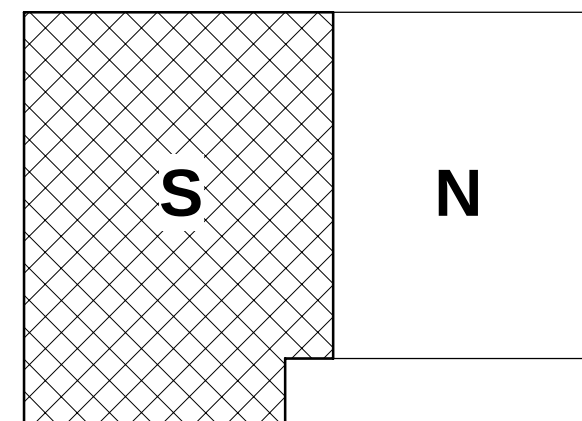
OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM -
GALLERY LEVEL - NEW
WORK - SOUTH**

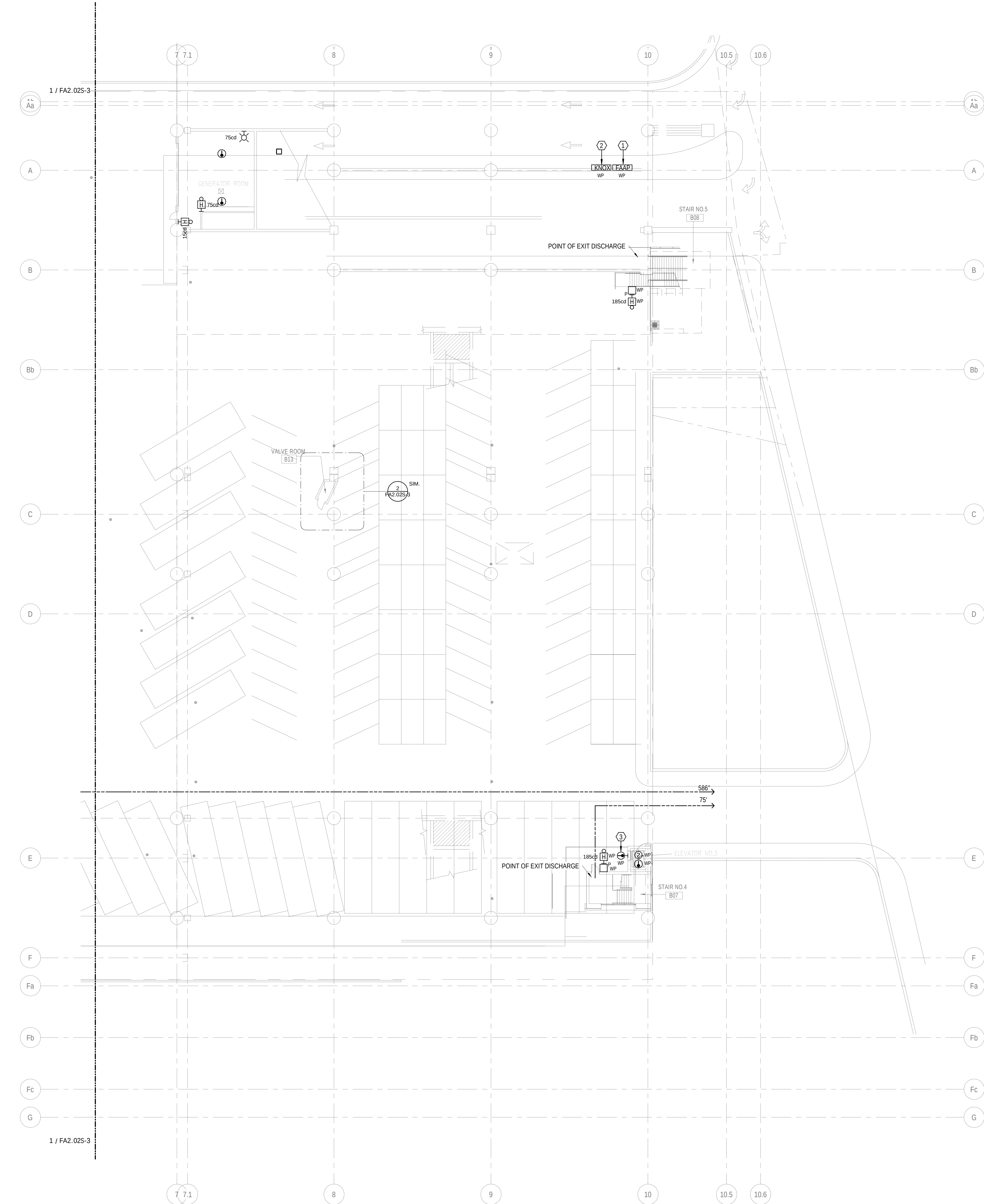
PROJECT NO.:	US-WSP-192801E	FA2.01S-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	As indicated	



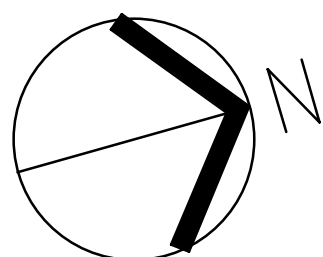
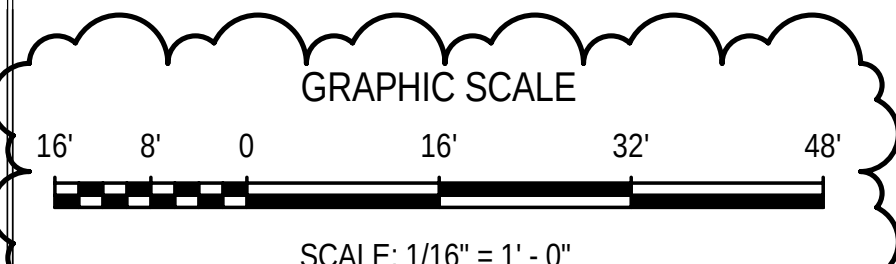
KEY PLAN



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1 FIRE ALARM - BUS LEVEL - NEW WORK - FAS - NORTH
1/16" = 1'-0"



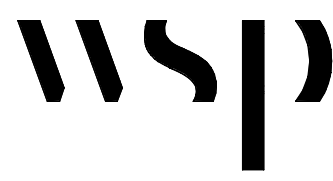
SHEET NOTES

- 1 PROVIDE SURFACE MOUNTED FIRE ALARM GRAPHIC ANNUNCIATOR PANEL INSIDE NEMA 4X ENCLOSURE AND KEY LOCK KEY FOR THE NEMA 4X ENCLOSURE TO BE PLACED INSIDE KNOX BOX.
- 2 PROVIDE SURFACE MOUNTED FIRE DEPARTMENT ACCESS KNOX BOX ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL. KNOX BOX SHALL BE UL 1037 LISTED AND APPROVED BY DC FIRE DEPARTMENT PER DC FIRE CODE 2017 SECTION 506.
- 3 REFER TO DETAILS ON SHEET FA7.00-3 FOR MOUNTING HEIGHT.

GENERAL NOTES

- A. REFER TO DRAWING FA0.00-3 FOR LEGENDS AND ABBREVIATIONS.
- B. FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AUI FOR APPROVAL.
- C. ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS WHERE SUBJECT TO WET CONDITIONS SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF BACKBOXES AND GASKETS. FIRE ALARM DEVICES IN THESE AREAS SHALL BE SUITABLE FOR THE ENVIRONMENT IN ACCORDANCE WITH NFPA 72.
- D. PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- E. ALL FIRE ALARM DEVICES ARE RATED AT 185CD U.L.D.N.
- F. COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- G. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- H. ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- I. ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
- J. ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- K. FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

MEPFPT Engineer:



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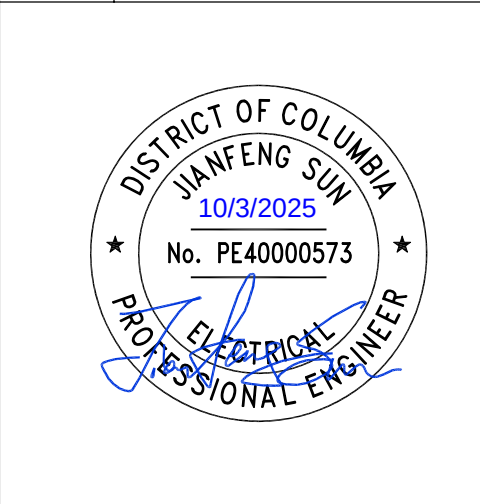
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT

**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER

**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE

**FIRE ALARM - BUS
LEVEL - NEW WORK -
NORTH**

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

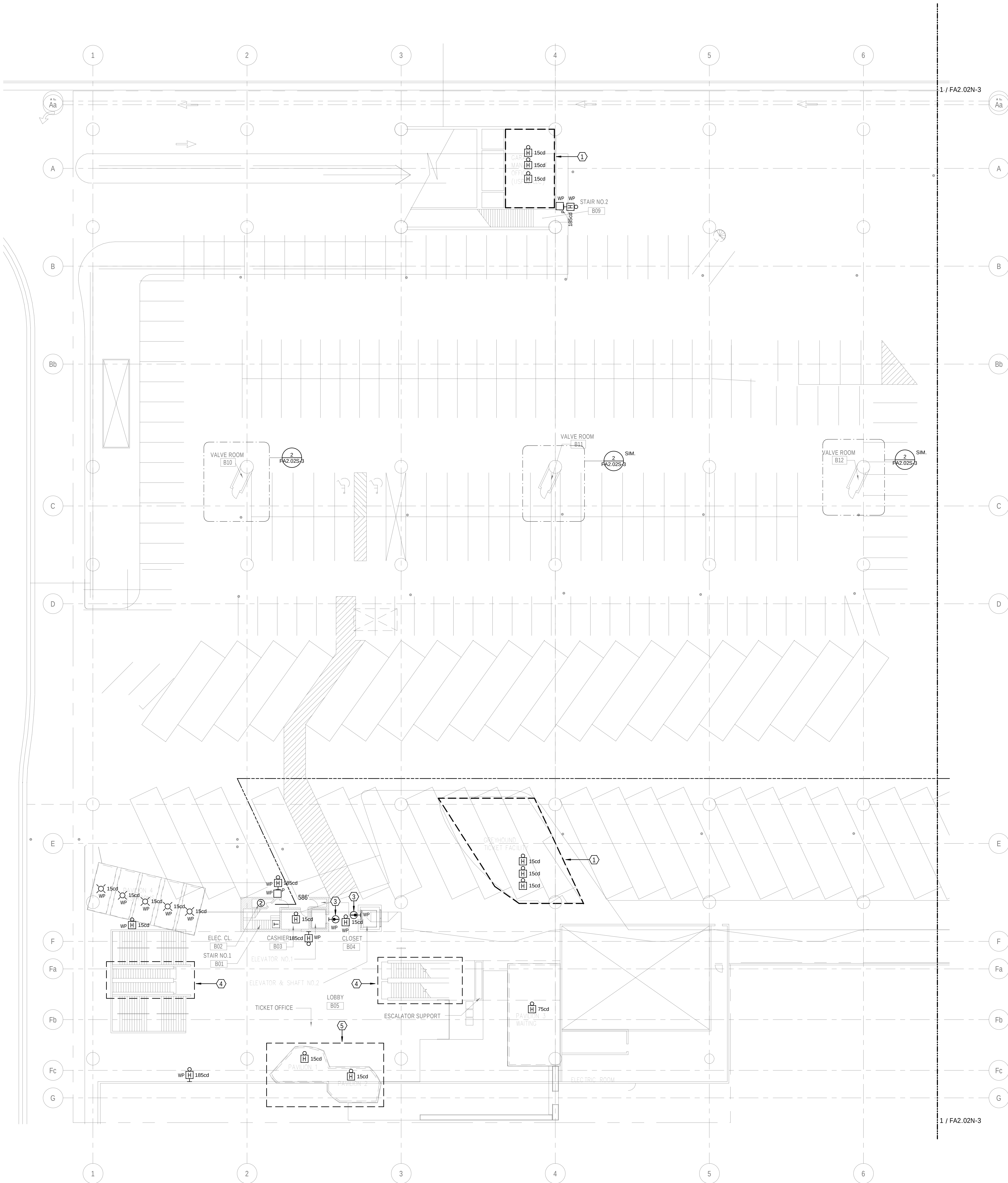
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CKD. BY: Checker

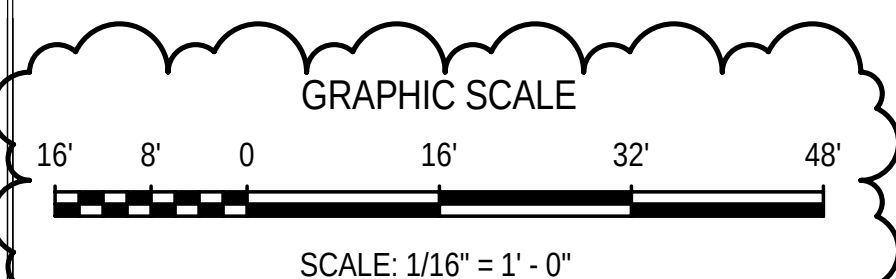
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FA2.02N-3

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1 FIRE ALARM - BUS LEVEL - NEW WORK - FAS - SOUTH
1/16" = 1'-0"



VALVE ROOM B10

B10

2 FIRE ALARM - BUS LEVEL - NEW WORK - FAS - TYPICAL VALVE ROOM
1/4" = 1'-0"

SHEET NOTES

- PROVISION OF (3) HORN/STROBE COMBINATION DEVICES. FIELD COORDINATE MOUNTING LOCATIONS PER EXISTING SPACE LAYOUT.
- REFER TO DETAIL#3 ON SHEET FA7.00-3 FOR ADDITIONAL INFORMATION.
- REFER TO DETAIL#5 ON SHEET FA7.00-3 FOR MOUNTING HEIGHT.
- INTERFACE EXISTING ESCALATORS WITH NEW FIRE ALARM SYSTEM. REPLACE ALL EXISTING FIRE ALARM DEVICES WITH NEW. COORDINATE WITH ESCALATOR CONTRACTOR TO PROVIDE ALL REQUIRED INTERFACE MODULES, WIRING, AND CONDUITS. REFER TO SHEET FA0.00-3 FOR MORE DETAILS ON SCOPE OF WORK.
- FIELD COORDINATE MOUNTING LOCATIONS PER EXISTING SPACE LAYOUT.

GENERAL NOTES

- REFER TO DRAWING FA0.00-3 FOR LEGENDS AND ABBREVIATIONS.
- FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AHD FOR APPROVAL.
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- PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.N.
- COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
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MEPFPT Engineer:



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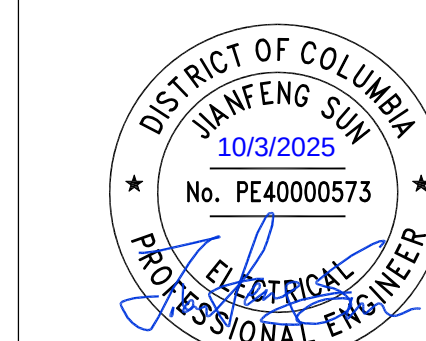
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025
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NO.	REVISION	DATE
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PROJECT

PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE

OWNER

UNION STATION
REDEVELOPMENT
CORPORATION

TITLE

FIRE ALARM - BUS
LEVEL - NEW WORK -
SOUTH

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

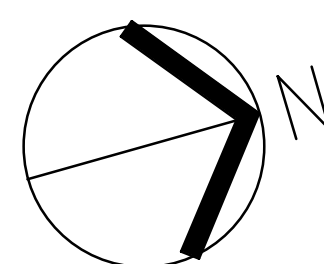
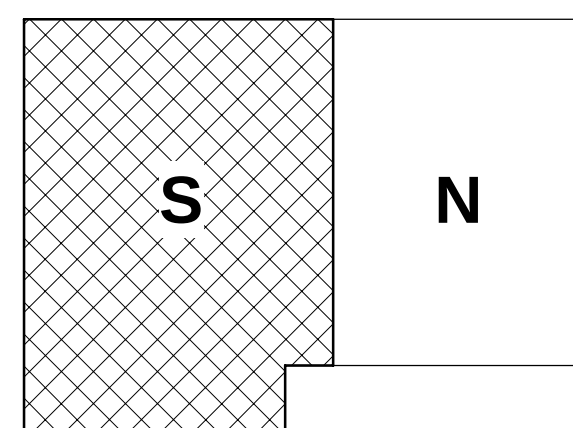
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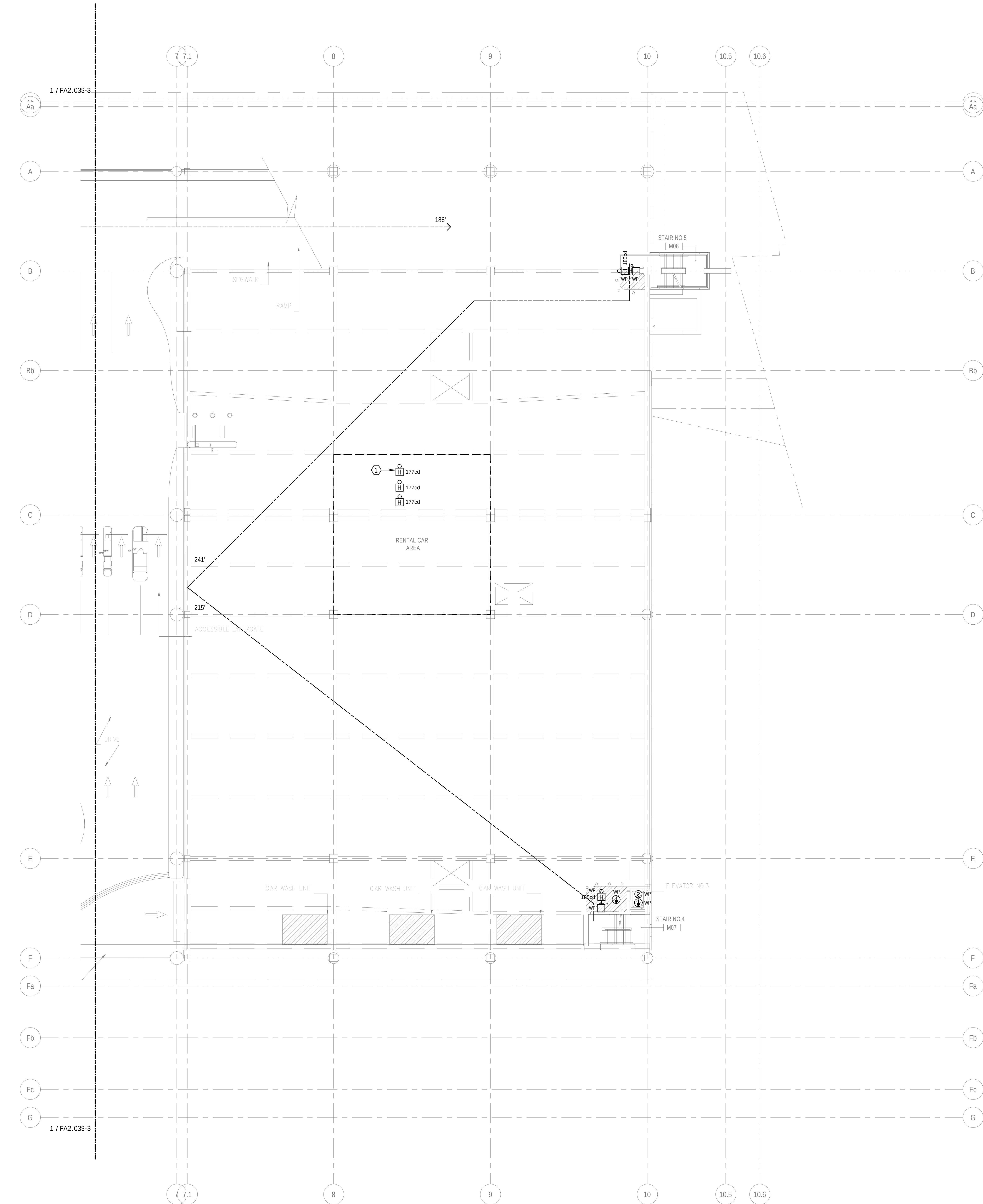
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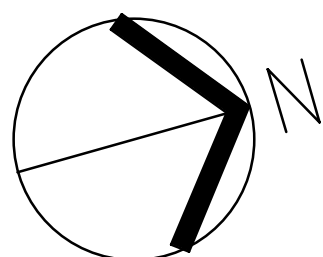
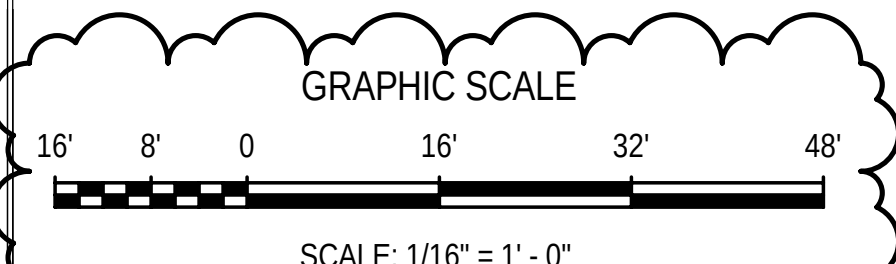
KEY PLAN



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1 FIRE ALARM - MEZZANINE LEVEL - NEW WORK - FAS - NORTH
1/16" = 1'-0"



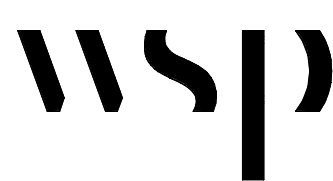
SHEET NOTES

- 1 PROVISION OF (3) HORNISTROBE COMBINATION DEVICES. FIELD COORDINATE MOUNTING LOCATIONS PER EXISTING SPACE LAYOUT.

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- ALL FIRE ALARM DEVICES ARE RATED AT 1000 VOLT.
- COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
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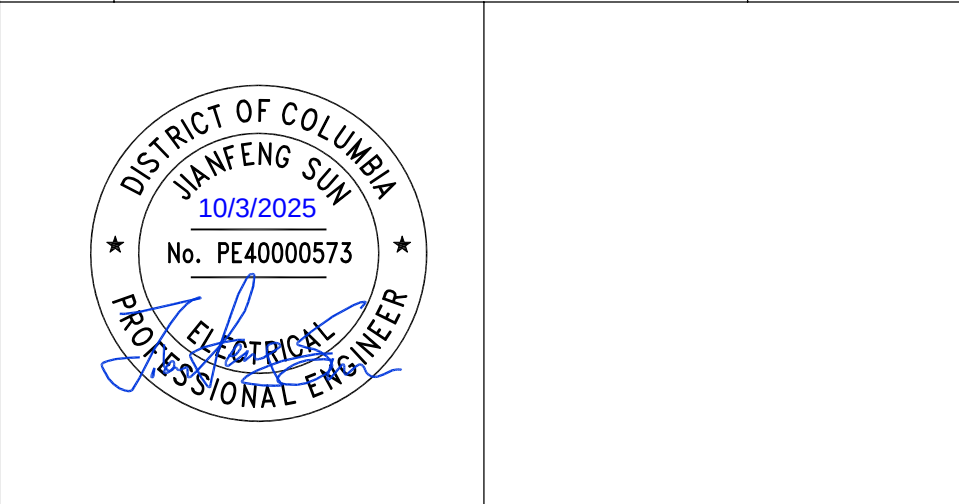
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT
**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM -
MEZZANINE LEVEL -
NEW WORK - NORTH**

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

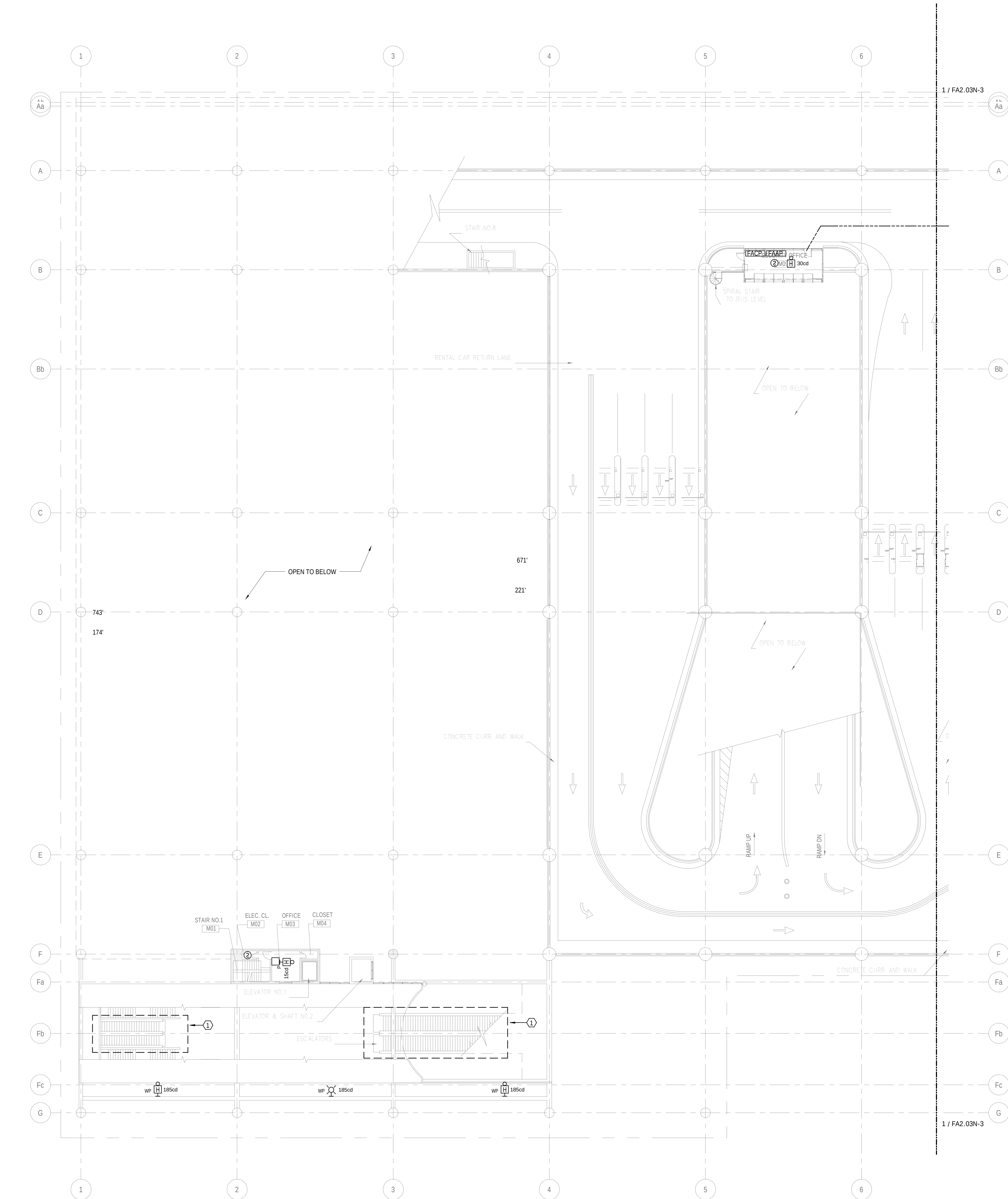
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CKD. BY: Checker

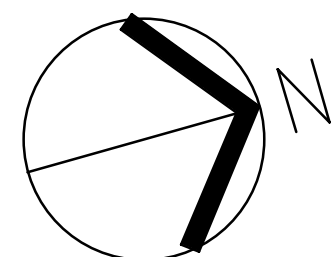
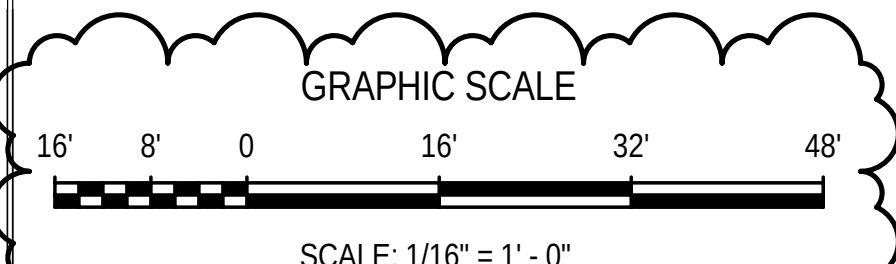
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1 FIRE ALARM - MEZZANINE LEVEL - NEW WORK - FAS - SOUTH
1/16" = 1'-0"



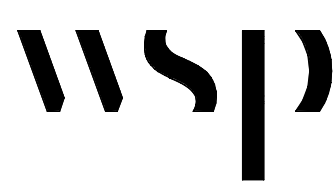
SHEET NOTES

- 1 INTERFACE EXISTING ESCALATORS WITH NEW FIRE ALARM SYSTEM. REPLACE ALL EXISTING FIRE ALARM DEVICES WITH NEW. COORDINATE WITH ESCALATOR CONTRACTOR TO PROVIDE ALL REQUIRED INTERFACE MODULES, WIRING, AND CONDUITS. REFER TO SHEET FA2.03-3 FOR MORE DETAILS ON SCOPE OF WORK.

GENERAL NOTES

- A. REFER TO DRAWING FA2.03-3 FOR LEGENDS AND ABBREVIATIONS.
- B. FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AND FOR APPROVAL.
- C. ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS WHERE SUBJECT TO WET CONDITIONS SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF BACKBOXES AND GASKETS. FIRE ALARM DEVICES IN THESE AREAS SHALL BE SUITABLE FOR THE ENVIRONMENT IN ACCORDANCE WITH NFPA 72.
- D. PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- E. ALL FIRE ALARM DEVICES ARE RATED AT 100°C/212°F.
- F. COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- G. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- H. ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- I. ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
- J. ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- K. FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

MEP/PFT Engineer:



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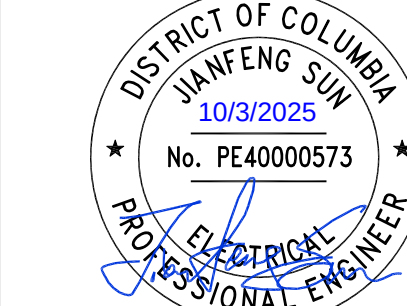
Architect:

Structural Engineer:

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PERMIT / BID OCT 3, 2025

NO. REVISION DATE



PROJECT

PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE

OWNER

UNION STATION
REDEVELOPMENT
CORPORATION

TITLE

FIRE ALARM -
MEZZANINE LEVEL -
NEW WORK - SOUTH

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

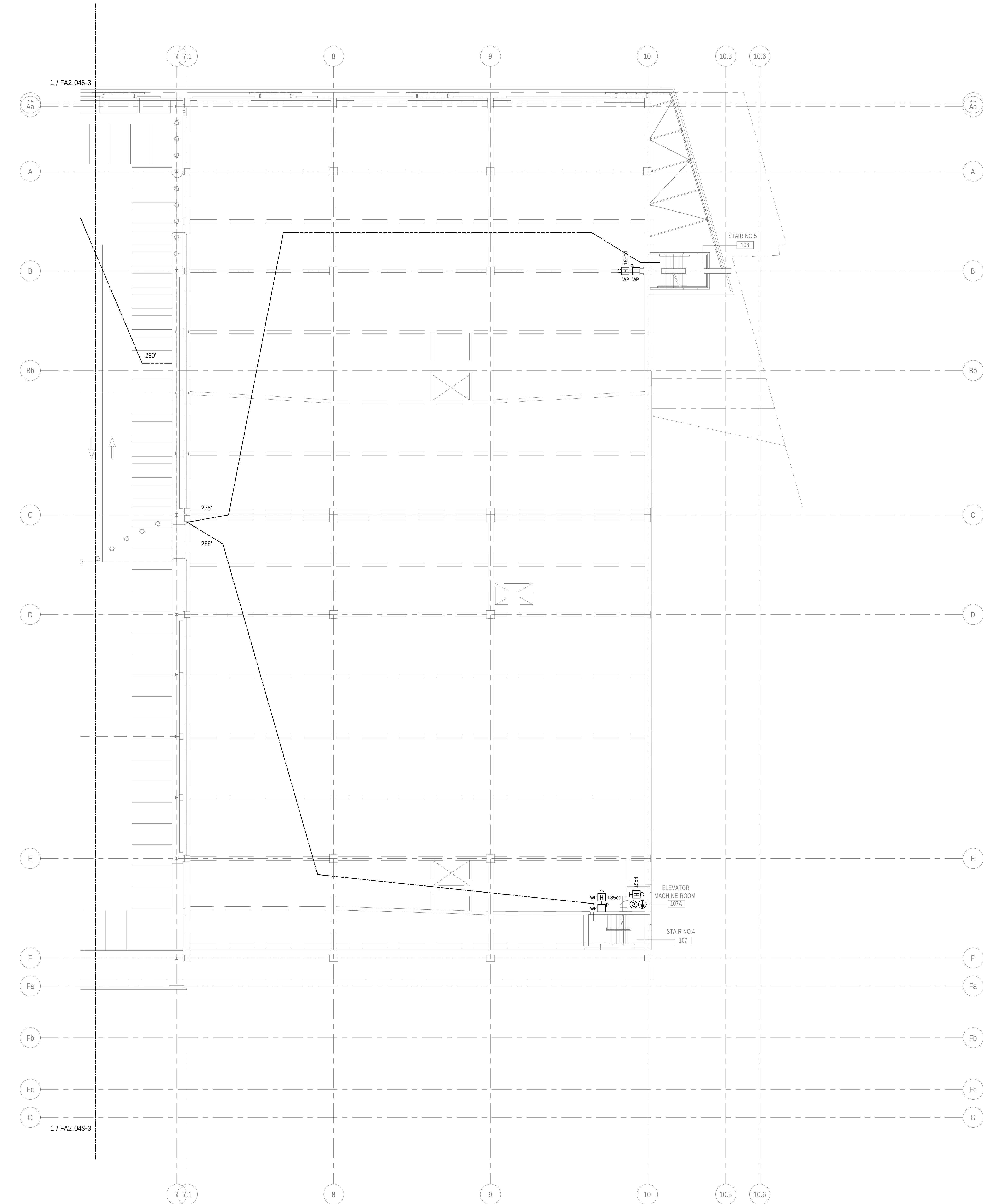
DWN. BY: Author

CKD. BY: Checker

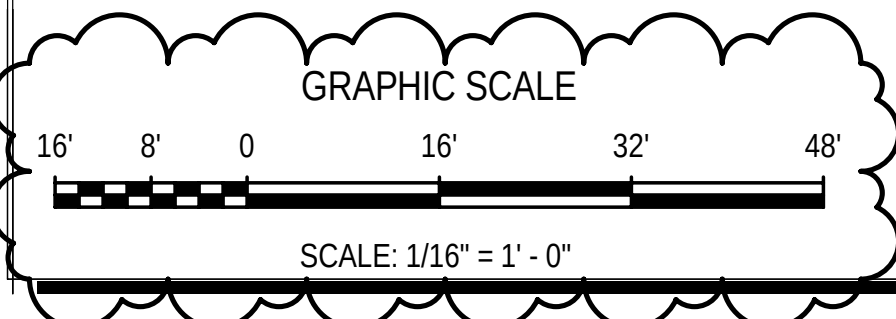
SCALE: As indicated

FA2.03S-3

10/20/2025 4:03:11 PM Autodesk Docs\\RP200-PM Support Services-GenRm-R25 - C55PM Support Services - GENERATOR ROOM_MSP_MP_2025.rvt



① FIRE ALARM - FIRST LEVEL - NEW WORK - FAS - NORTH
1/16" = 1'-0"

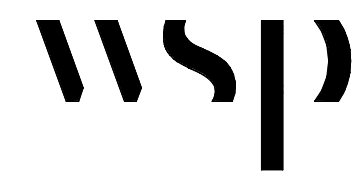


SHEET NOTES

GENERAL NOTES

- REFER TO DRAWING FA0.00-3 FOR LEGENDS AND ABBREVIATIONS.
- FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AHD FOR APPROVAL.
- ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS WHERE SUBJECT TO WET CONDITIONS SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF BACKBOXES AND GASKETS. FIRE ALARM DEVICES IN THESE AREAS SHALL BE SUITABLE FOR THE ENVIRONMENT IN ACCORDANCE WITH NFPA 72.
- PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.O.N.
- COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
- ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

MEPFPT Engineer:



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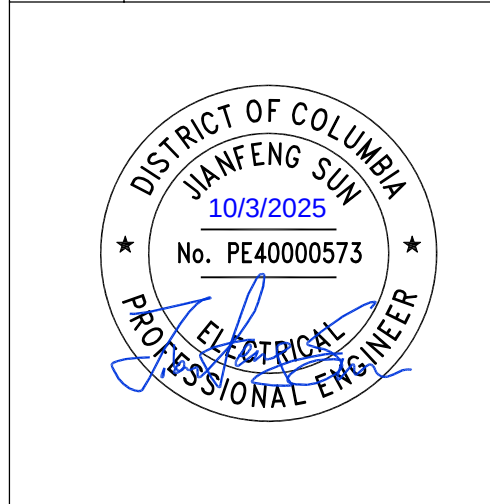
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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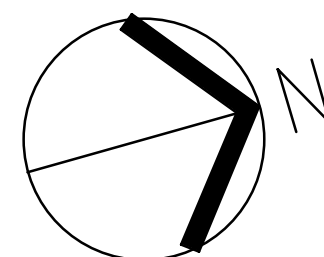
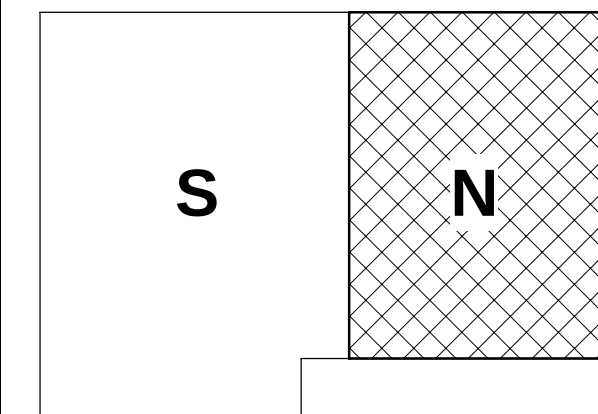
PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

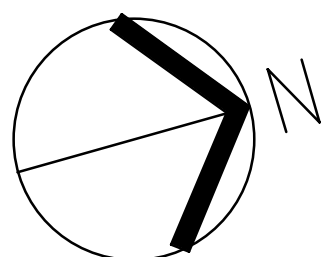
OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM - FIRST
LEVEL - NEW WORK -
NORTH**

PROJECT NO.:	US-WSP-192801E	FA2.04N-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	As indicated	

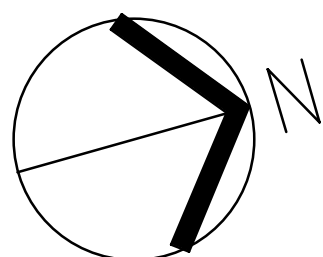
KEY PLAN





FA2.04S-3

KEY PLAN



T. REFER TO DRAWING FAD-03 FOR LEGENDS AND ABBREVIATIONS.
 U. PROVIDE DRAWINGS AND NOTES FOR PERMITTING AND DESIGN REFERENCE. ONLY CONTRACTOR SHALL PROVIDE THE PERMIT PLUMBING LAYOUT. THE DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.
 V. ALL FIRE ALARM DEVICES IN GARAGES, EXTERIOR AREAS, AND OTHER LOCATIONS EXPOSED TO WET WEATHER SHALL BE WEATHERPROOF UL LISTED AND EQUIPPED WITH WEATHERPROOF COVERS.
 W. PROVIDE BATTERY BACKUP FOR ALL FIRE ALARM DEVICES IN THESE AREAS THAT SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 X. PROVIDE A MANUAL PULL STATION WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORN. REFER TO FIRE ALARM DRAWING FOR MORE DETAILS.
 Y. ALL FIRE ALARM DEVICES ARE RATED AT 150°C D.O.N.
 Z. COORDINATE WITH PLUMBING SHOP DRAWINGS FOR EXACT LOCATIONS AND DEPTHS OF VALVE TAPS, WATER FLOOR, AND HIGH AND LOW PRESSURE SWITCHES.
 AA. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS REQUIRED BY THE PLANS AND SPECIFICATIONS.
 AB. ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
 AC. ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE LOCATION ALLOWED BY THE PLANS.
 AD. ALL PENETRATIONS THROUGH FLOOR SLAB AND FIRE RATED WALLS SHALL BE PROPERLY FIRE STOPPED.
 AE. FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE INSTALLED IN THE LOWEST LOCATION WHERE ALARM SIGNALS SHALL BE RECEIVABLE IN ALL PARTS OF THE ROOM OR AREA. THE FIRE ALARM SIGNALS SHALL BE HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN GARAGES SHALL BE 10' OR LOW THE STRUCTURAL BEM LOWEST POINT. PROVIDE UNMOUNTED DEVICES TO BE USED IN THE LOCATIONS WHERE REQUIRED.
 AG.

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NO.	REVISION	DATE
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OWNER

TITLE

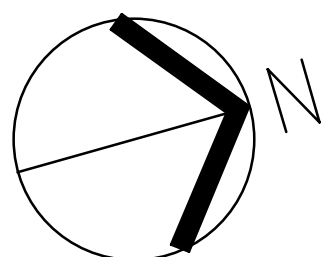
PROJECT NO.:	US-WSP-192801E
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DATE: 10/03/2025

DIW/N BY: Author	CKD BY: Checke
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SCALE: As indicated

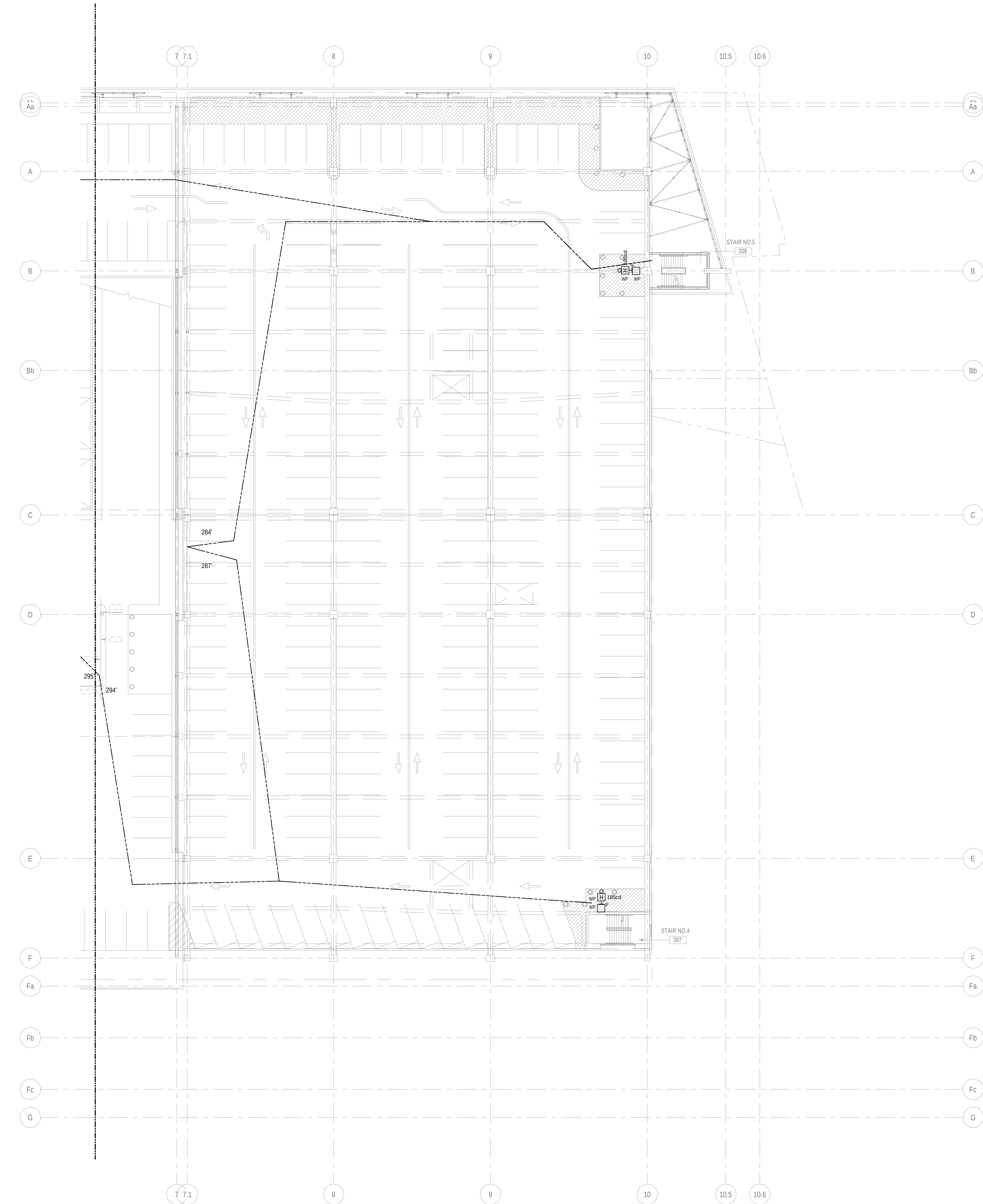
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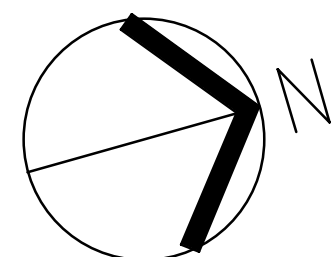
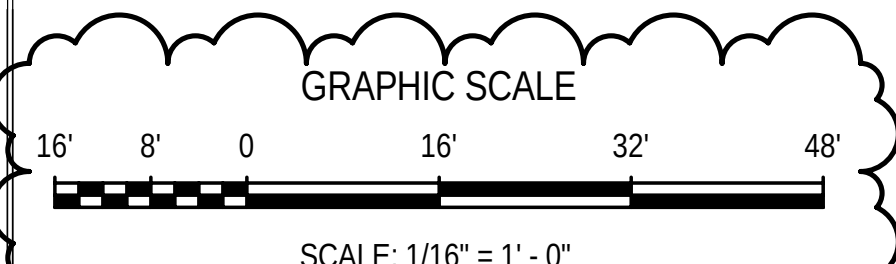
FA2.05S-3

A diagram showing a shaded region labeled **S** and an unshaded region labeled **N**. Region **S** is a rectangle with a cross-hatch pattern. Region **N** is a white rectangle to the right of **S**. A small white rectangle is also shown below **S**.

10/20/2025 4:05:16 PM Autodesk Docs\\RP20-PM Support Services-GenRm-R25 - C25PM Support Services - GENERATOR ROOM_WSP_MEP_2025.rvt

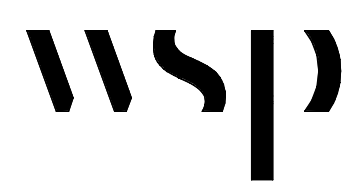


1 FIRE ALARM - THIRD LEVEL - NEW WORK - FAS - NORTH
1/16" = 1'-0"



SHEET NOTES

MEPFPT Engineer:



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1300 N 17TH ST, SUITE 1000
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(703) 362-2800
wsp.com

Architect:

Structural Engineer:

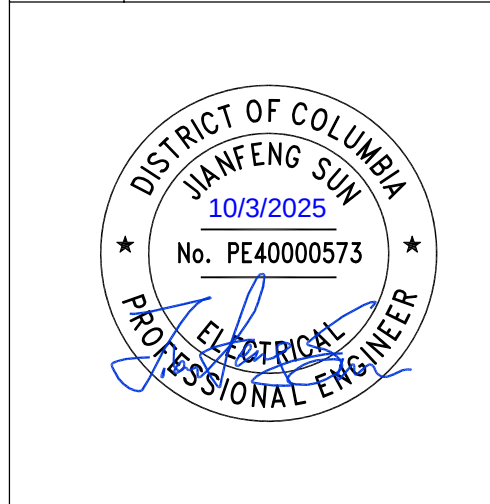
GENERAL NOTES

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- FIRE ALARM DRAWINGS AS SHOWN ARE FOR PERMITTING AND DESIGN REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THE FINAL FIRE ALARM LAYOUT AND SYSTEM DESIGN WITH ALL REQUIRED SYSTEM CALCULATIONS THAT SHALL BE SUBMITTED TO AHD FOR APPROVAL.
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- PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.N.
- COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
- ALL FIRE ALARM DEVICES SHALL BE MOUNTED AT THE HIGHEST POSSIBLE HEIGHT AS ALLOWED BY NFPA 72.
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- FIRE ALARM DEVICES SHALL BE MOUNTED IN ACCORDANCE TO NFPA 72. APPLIANCES SHALL BE PERMANENTLY INSTALLED AT A LOCATION WHERE ALARM SIGNALS SHALL BE VISIBLE IN ALL PARTS OF THE ROOM OR AREA. THE REQUIRED INSTALLATION HEIGHT FOR THE CEILING FIRE ALARM DEVICES IN THE GARAGE SHALL BE BELOW THE STRUCTURAL BEAM LOWEST POINT. PROVIDE UNISTRUT MOUNTED DEVICES OFF OF THE CEILING WHERE REQUIRED IN THE GARAGE.

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT

**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER

**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE

**FIRE ALARM - THIRD
LEVEL - NEW WORK -
NORTH**

PROJECT NO.: US-WSP-192801E

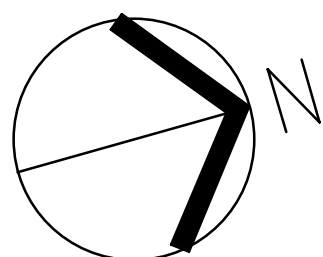
DATE: 10/03/2025

DWN. BY: Author

CKD. BY: Checker

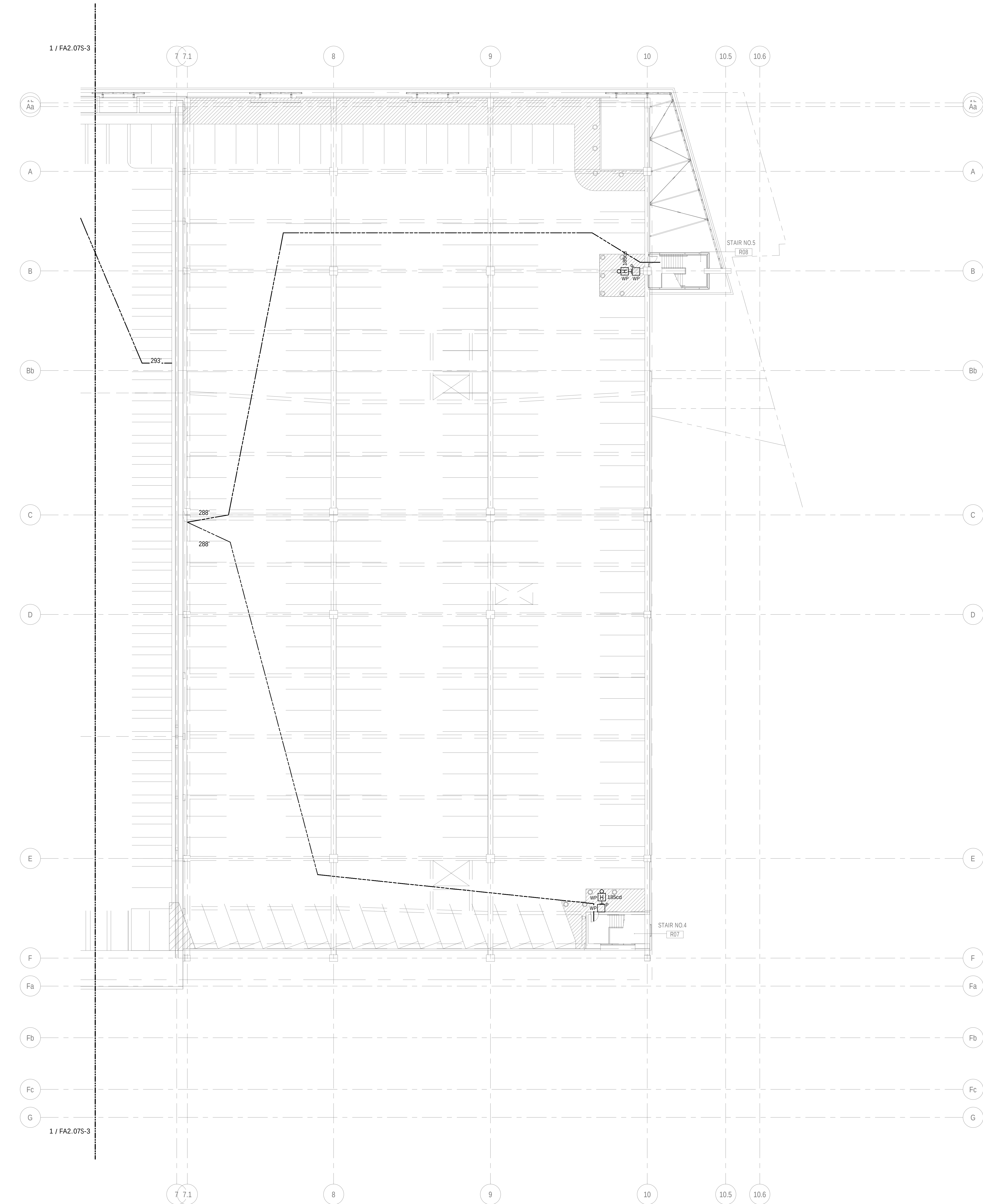
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FA2.06N-3

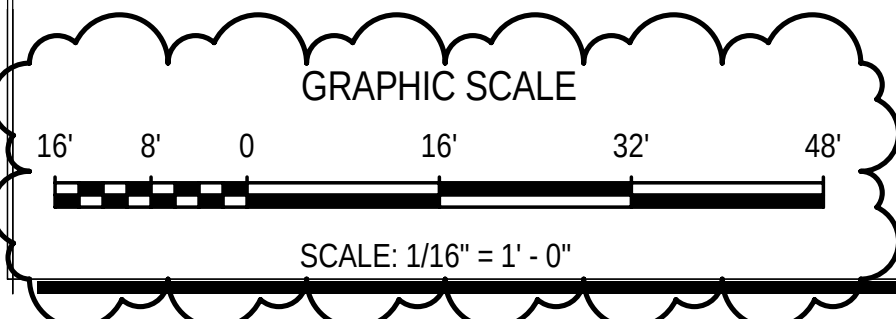


SCALE: As indicated

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1 FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - FAS - NORTH
1/16" = 1'-0"



SHEET NOTES

MEP/PT Engineer:



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(703) 362-2800
wsp.com

Architect:

Structural Engineer:

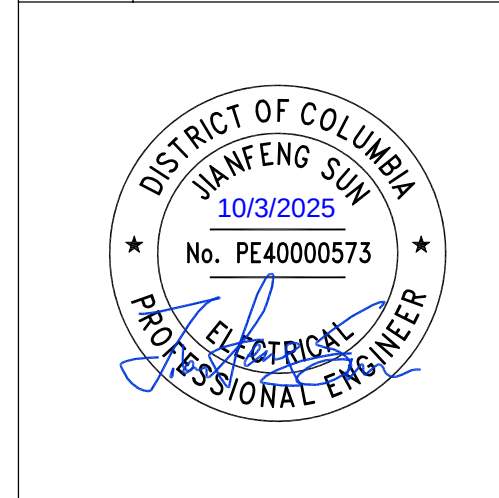
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- PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- ALL FIRE ALARM DEVICES ARE RATED AT 100CD U.L.N.
- COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
- ALL WIRING SHALL BE IN ELECTRIC METAL TUBING.
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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT

PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE

OWNER

UNION STATION
REDEVELOPMENT
CORPORATION

TITLE

FIRE ALARM - FOURTH
LEVEL (ROOF) - NEW
WORK - NORTH

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

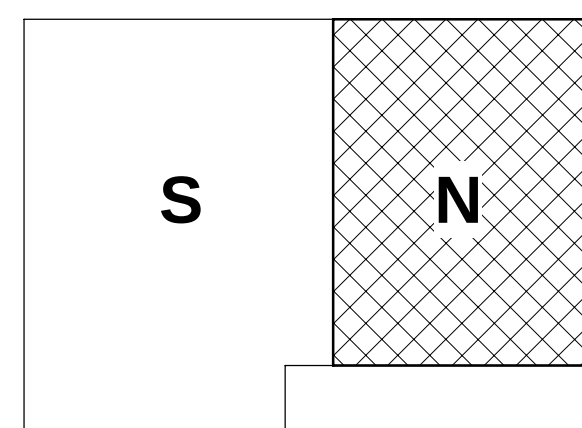
DWN. BY: Author

CKD. BY: Checker

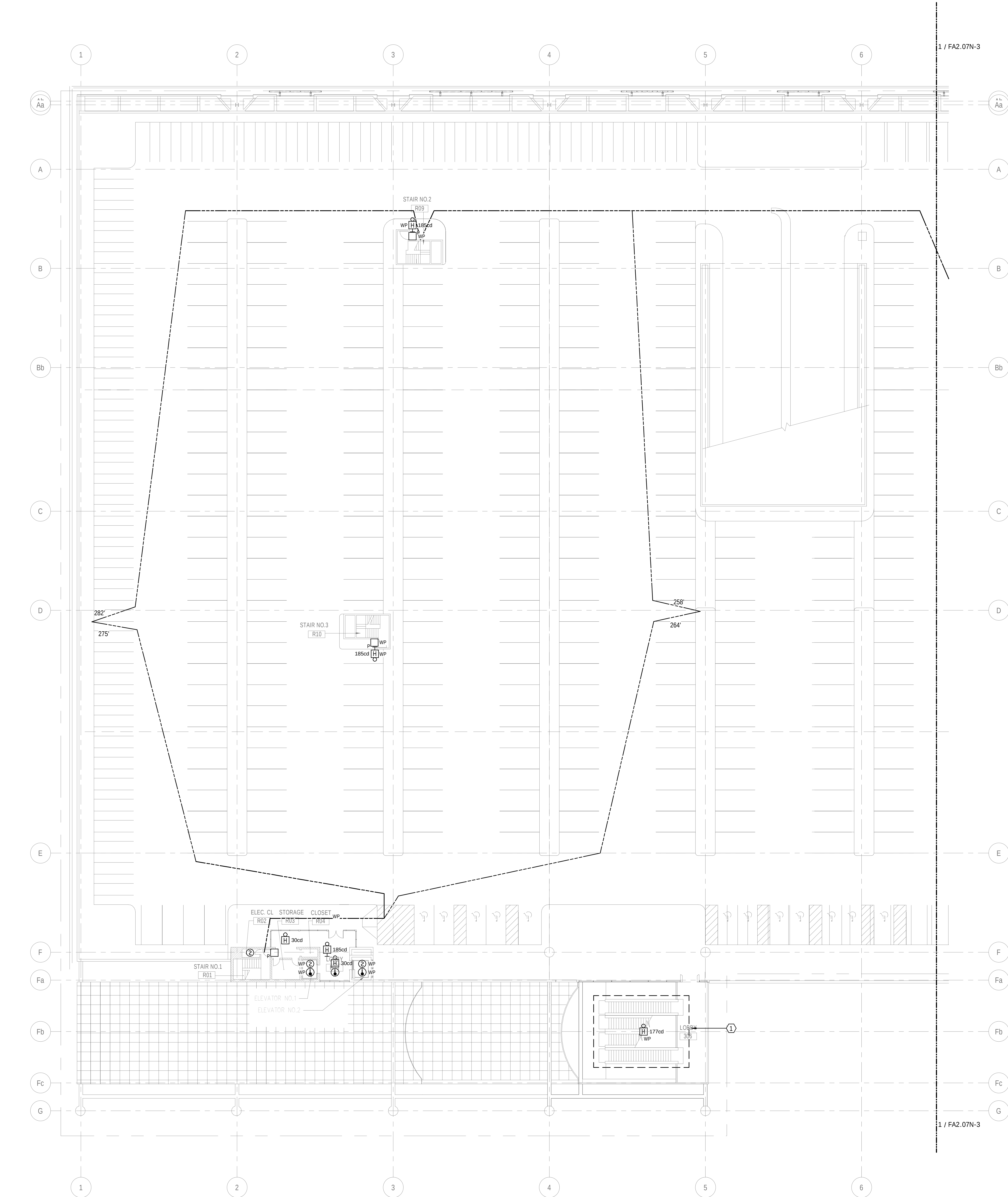
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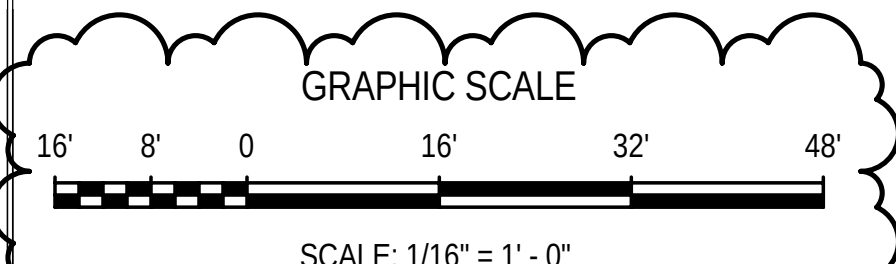
KEY PLAN



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1 FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - FAS - SOUTH
1/16" = 1'-0"



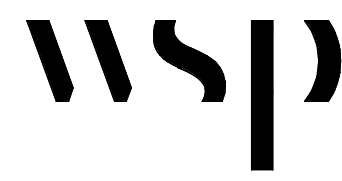
SHEET NOTES

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GENERAL NOTES

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- D. PROVIDE DUAL ACTION MANUAL PULL STATIONS WITH WEATHERPROOF PROTECTIVE SHIELDS AND WARNING HORNS. REFER TO FIRE ALARM SPECIFICATION FOR MORE DETAILS.
- E. ALL FIRE ALARM DEVICES ARE RATED AT 180CD U.L.N.
- F. COORDINATE WITH PLUMBING, FIRE PROTECTION, AND SPRINKLER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF VALVE TAMPER, WATER FLOW, AND HIGH AND LOW PRESSURE SWITCHES.
- G. PROVIDE CONDUIT, WIRE, RELAYS, DEVICES, ETC. FOR A COMPLETE FIRE ALARM INSTALLATION AS DERIVED BY THE PLANS AND SPECIFICATIONS.
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MEPFPT Engineer:



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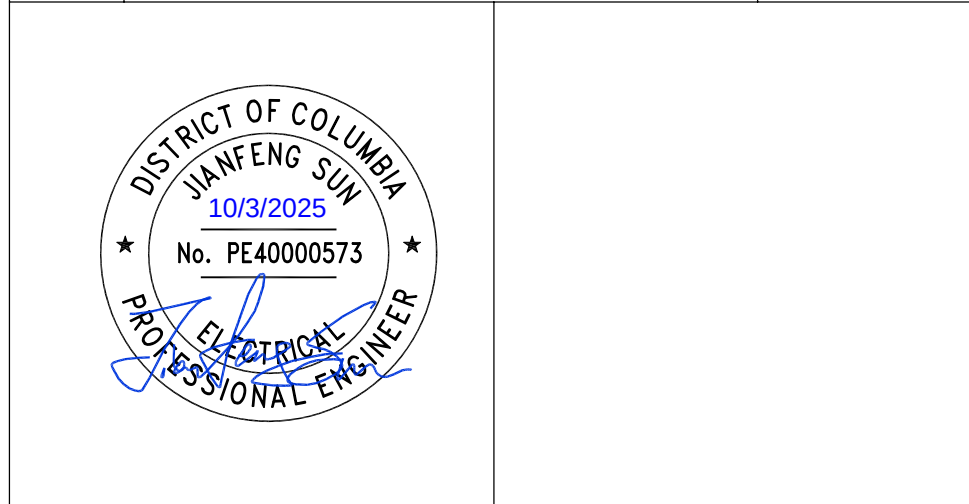
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT

PM SUPPORT SERVICES FIRE ALARM SYSTEM UPGRADE

OWNER

UNION STATION REDEVELOPMENT CORPORATION

TITLE

FIRE ALARM - FOURTH LEVEL (ROOF) - NEW WORK - SOUTH

PROJECT NO.: US-WSP-192801E

DATE: 10/03/2025

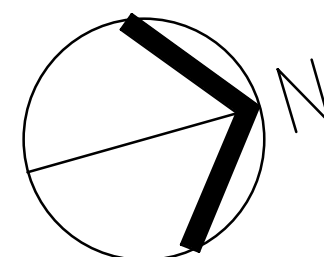
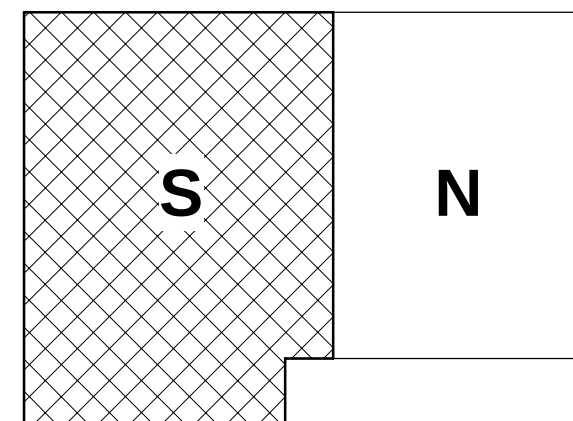
DWN. BY: Author

CKD. BY: Checker

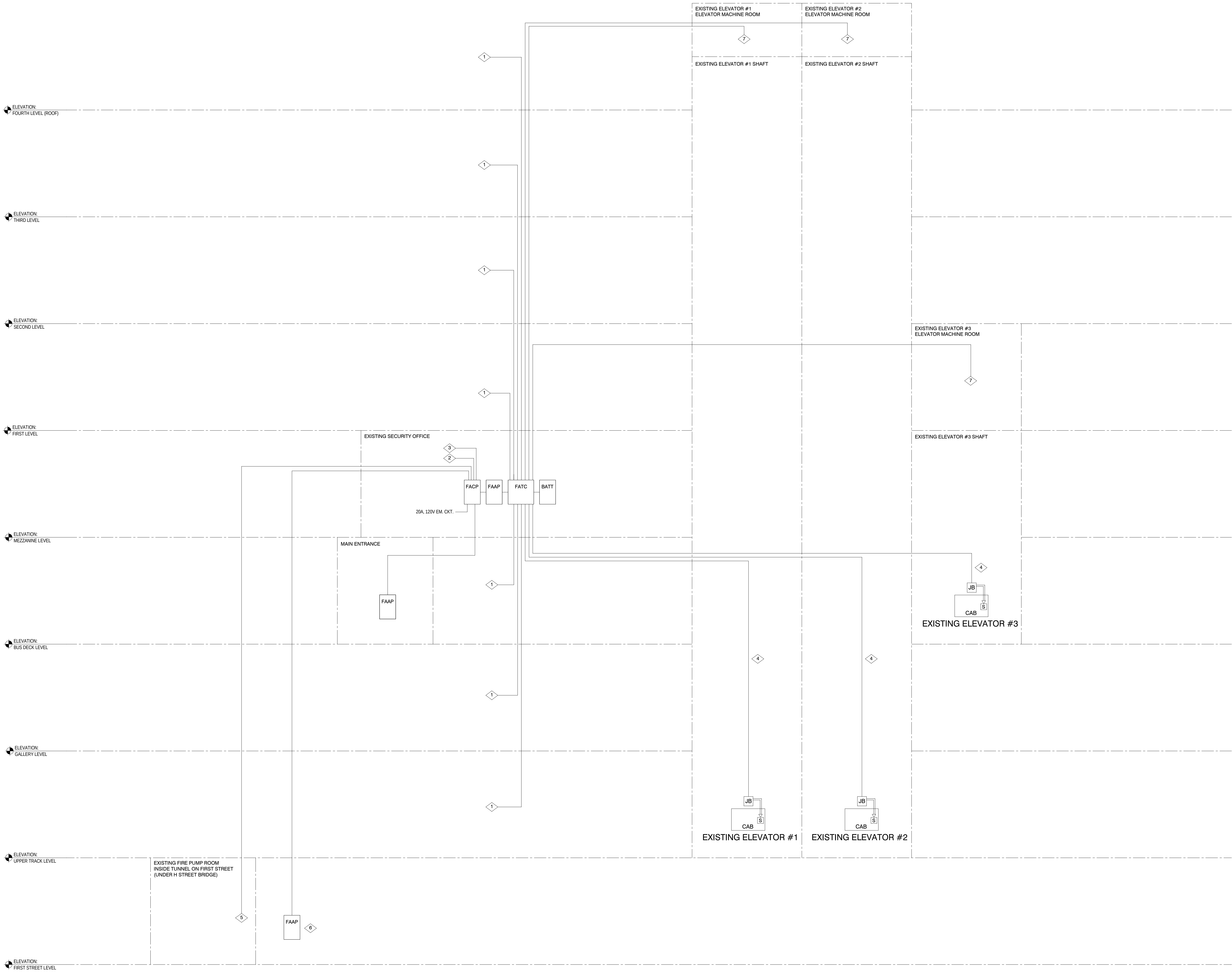
SCALE: As indicated

FA2.07S-3

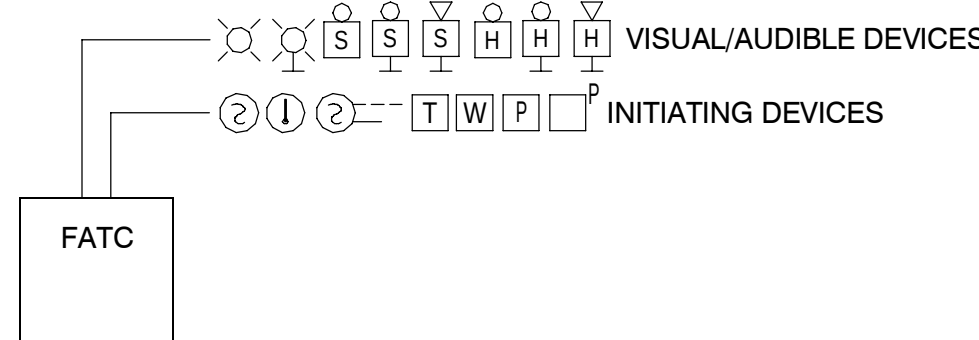
KEY PLAN



10/2/2025 4:19:20 PM A:\mshd\Drawings\18200-PM Support Services-GerRin-RIS - CSDPM Support Services-GENERATOR ROOM_WSP_MAP_2025.rvt



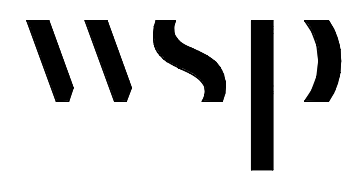
- 1 REFER TO FLOOR PLAN FOR ACTUAL LOCATIONS OF ALL DEVICES.
- 2 PROVIDE A 1-INCH EMPTY CONDUIT WITH PULL STRING FROM THE FACP TO THE NEAREST TELECOM TERMINAL BACKBOARD. CONNECT THE FIRE ALARM CONTROL PANEL COMMUNICATIONS MODEM TO DEDICATED TELEPHONE LINES PER THE REQUIREMENTS OF THE AHJ.
- 3 PROVIDE A 1-INCH EMPTY CONDUIT FROM THE FACP TO THE SECURITY SYSTEM CONTROL PANEL.
- 4 PROVIDE A 2-INCH EMPTY CONDUIT FROM THE FACP TO EACH ELEVATOR HOISTWAY.
- 5 REFER TO DETAIL 4 ON SHEET FA7.00-3 FOR SCOPE OF WORK ON REPLACEMENT OF EXISTING FIRE ALARM DEVICES ASSOCIATED WITH EXISTING FIRE PUMP ROOM.
- 6 FAAP TO BE LOCATED ADJACENT TO EXISTING WET PIPE FIRE DEPARTMENT CONNECTION (FDC).
- 7 REFER TO SHEET FA0.00-3 FOR SCOPE OF WORK ON FIRE ALARM INTERFACE WITH EXISTING ELEVATOR.



RISER ABBREVIATIONS	
BATT	BATTERY CABINET
FATC	FIRE ALARM TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL

GENERAL NOTE	
HEAT DETECTORS IN ELEVATOR MACHINE ROOMS OR MACHINE ROOM-LESS ELEVATOR SHAFTS SHALL BE CONNECTED DIRECTLY TO THE SHUNT TRIP OF THE ASSOCIATED ELEVATOR DISCONNECT	

MEPFPT Engineer:



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1300 N 17TH ST, SUITE 1000
ARLINGTON VA, 22209
(703) 362-2800
wsp.com

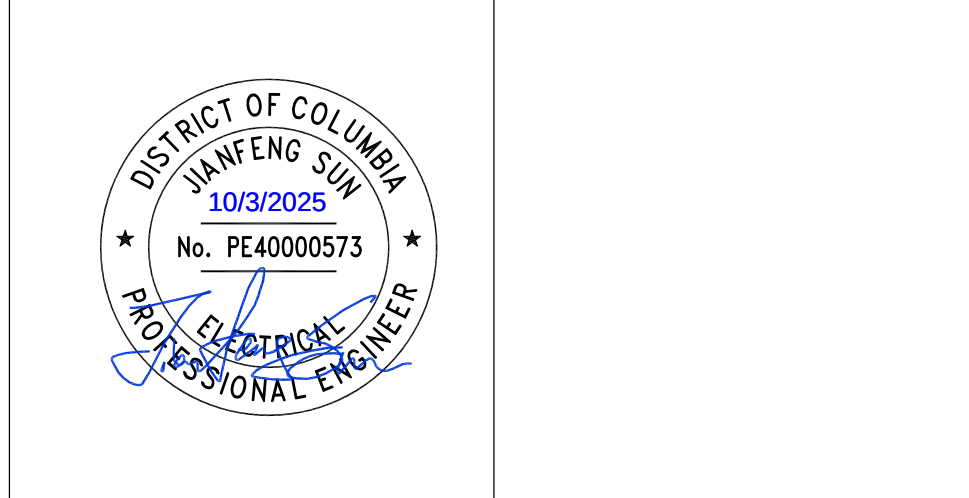
Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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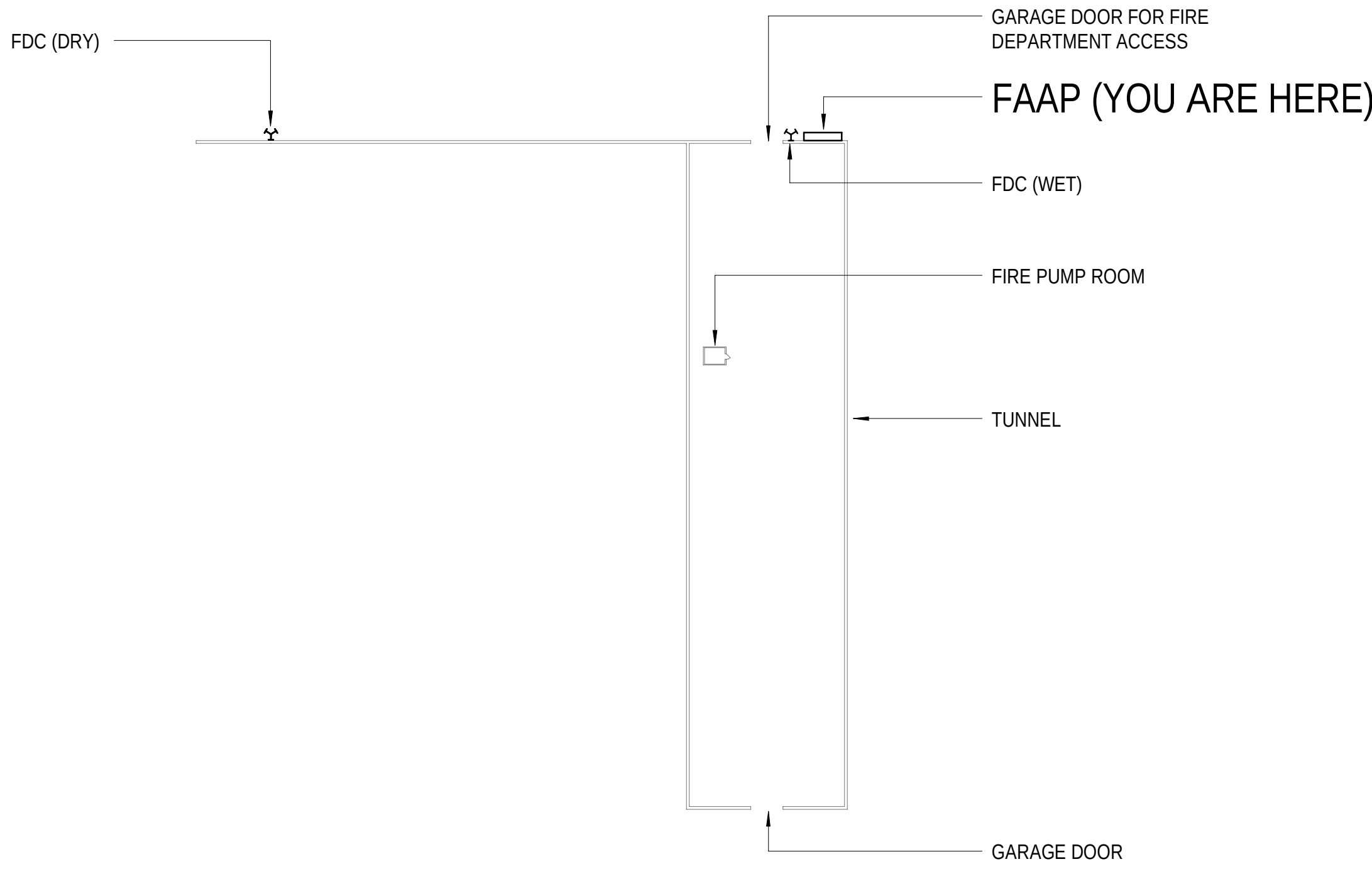
PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

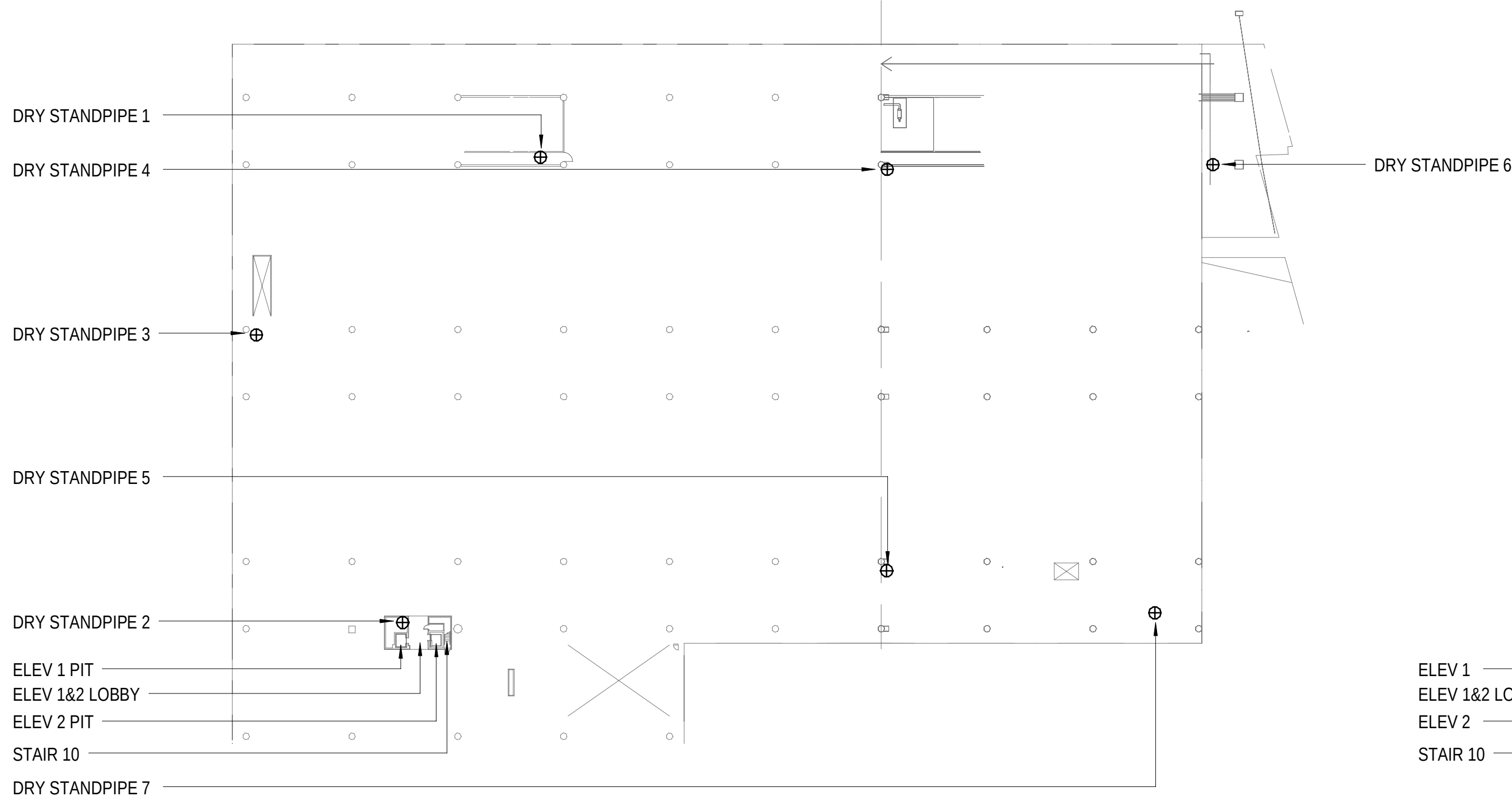
TITLE
**FIRE ALARM - RISER
DIAGRAM**

PROJECT NO.:	US-WSP-192801E	FA5.00-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	12" = 1'-0"	

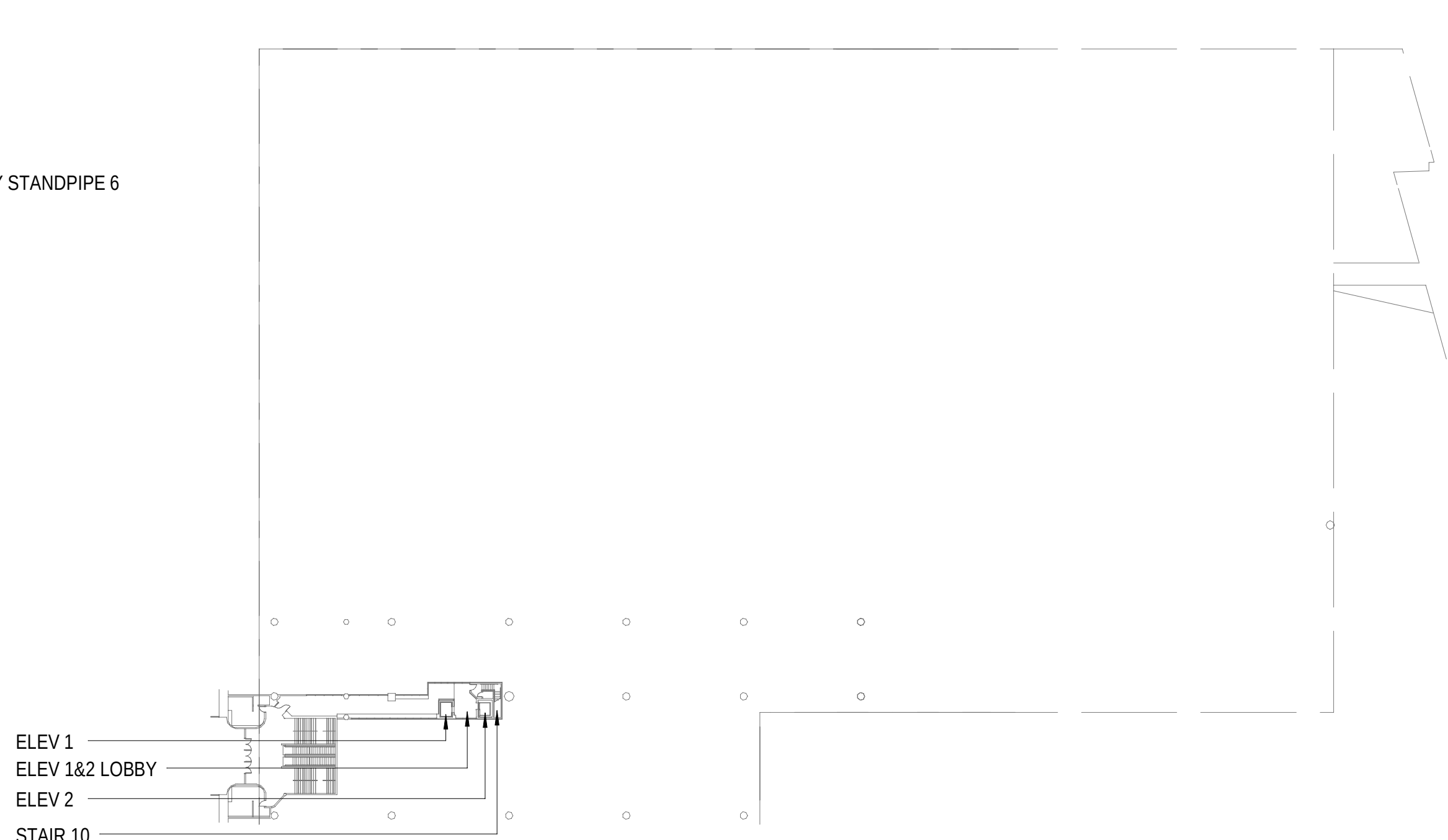
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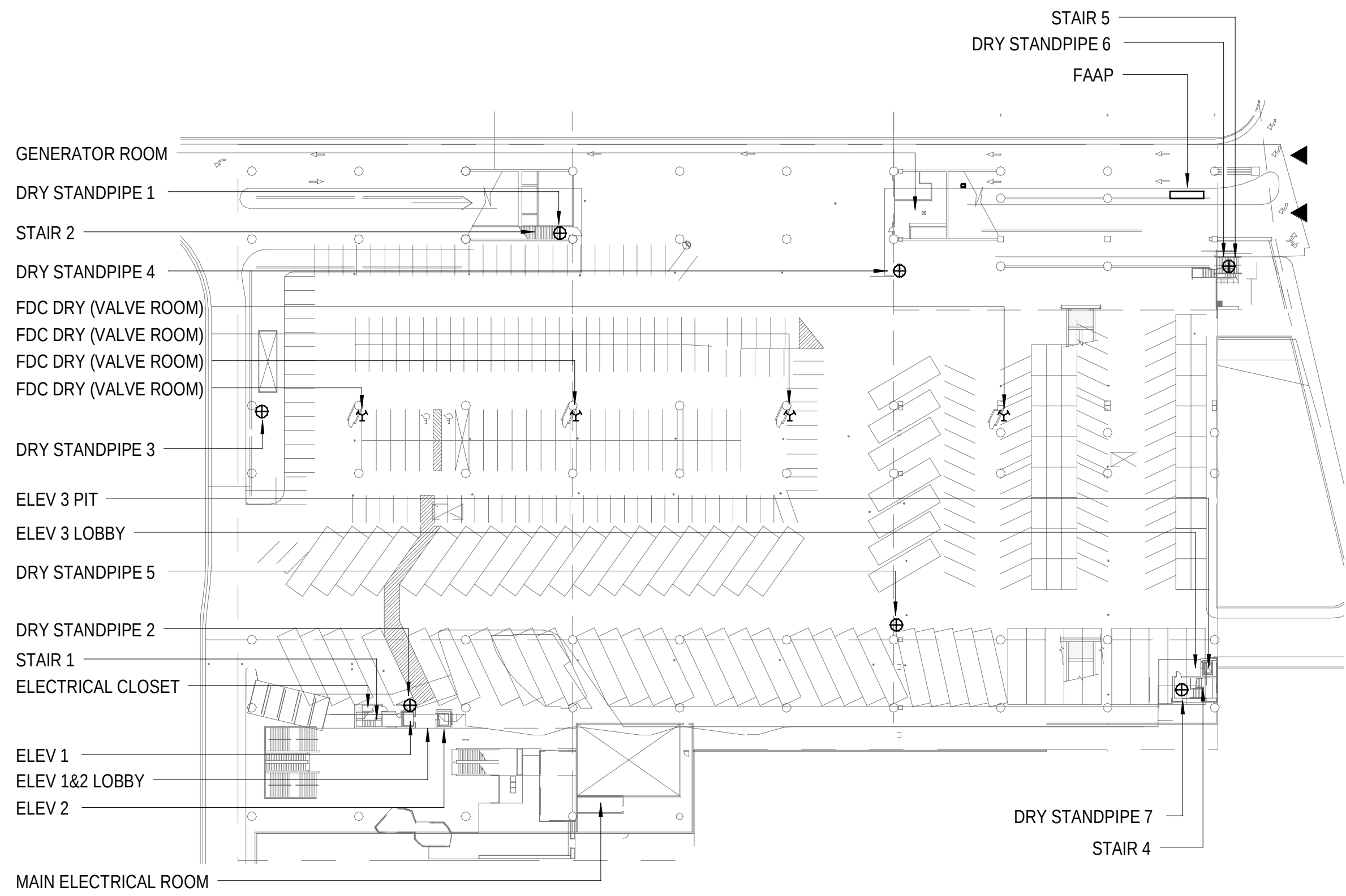
1 FIRE ALARM ANNUNCIATOR - FIRST STREET LEVEL
1/64" = 1'-0"



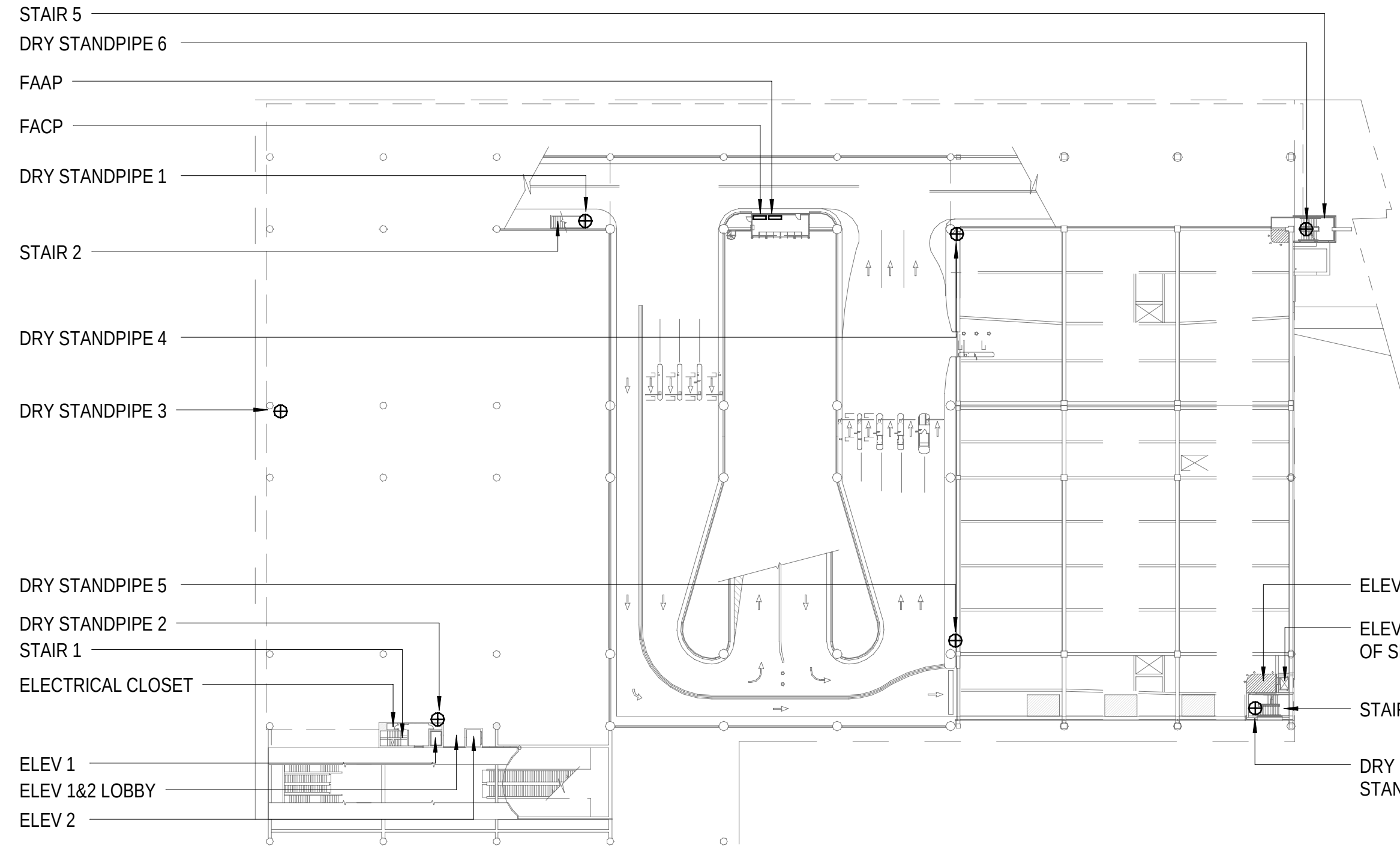
2 FIRE ALARM ANNUNCIATOR - UPPER TRACK LEVEL
1/64" = 1'-0"



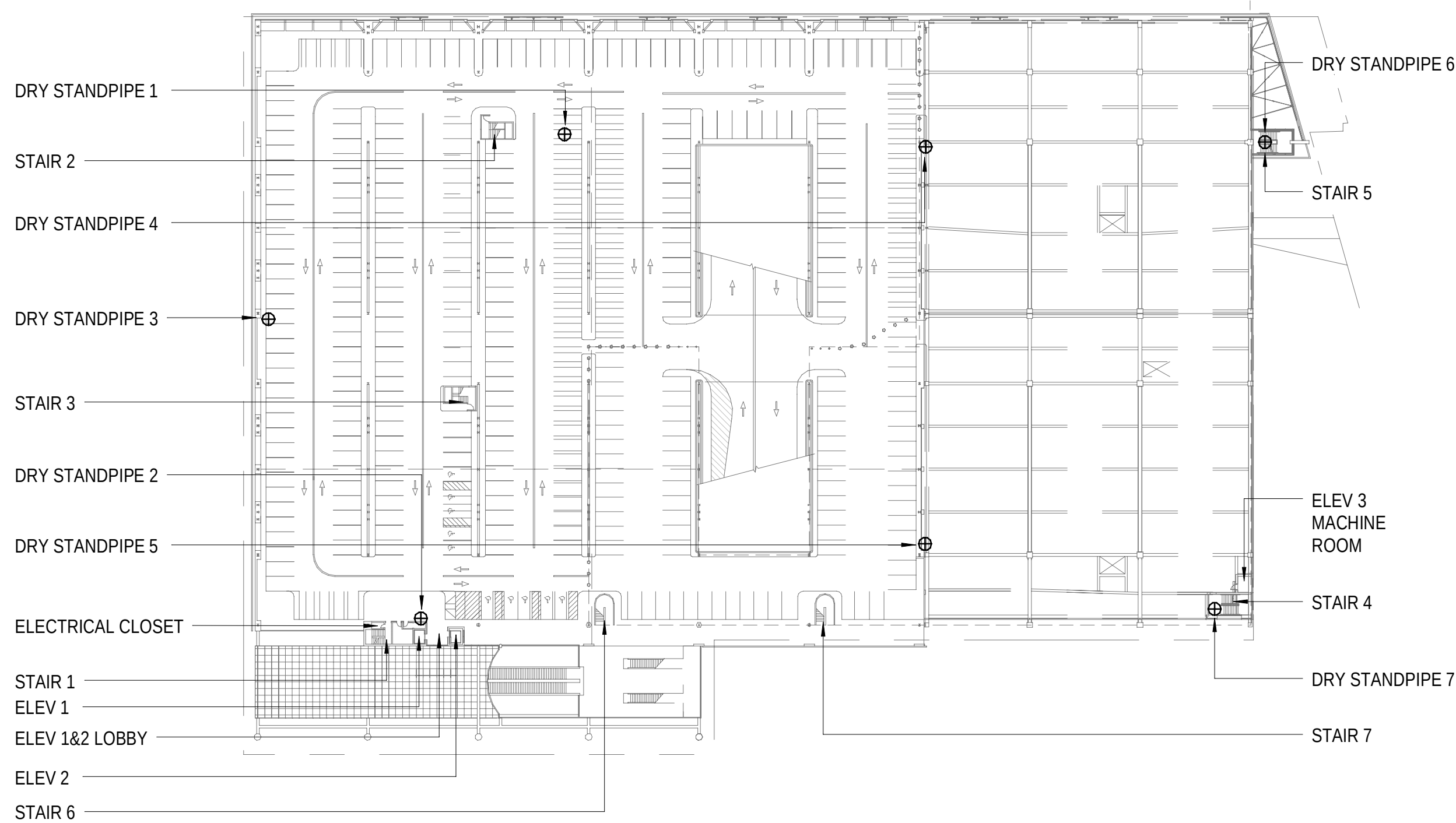
3 FIRE ALARM ANNUNCIATOR - GALLERY LEVEL
1/64" = 1'-0"



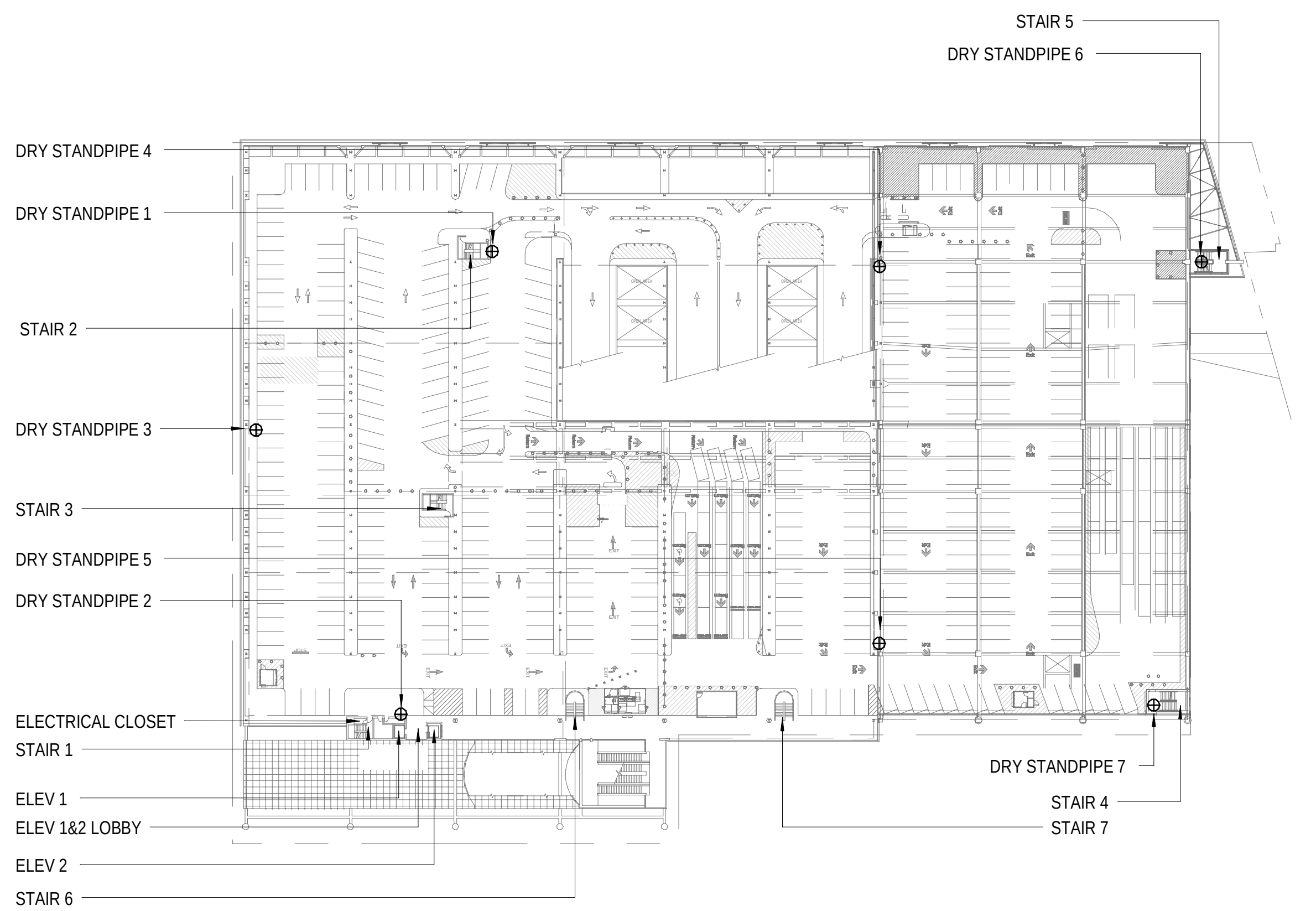
4 FIRE ALARM ANNUNCIATOR - BUS DECK LEVEL
1/64" = 1'-0"



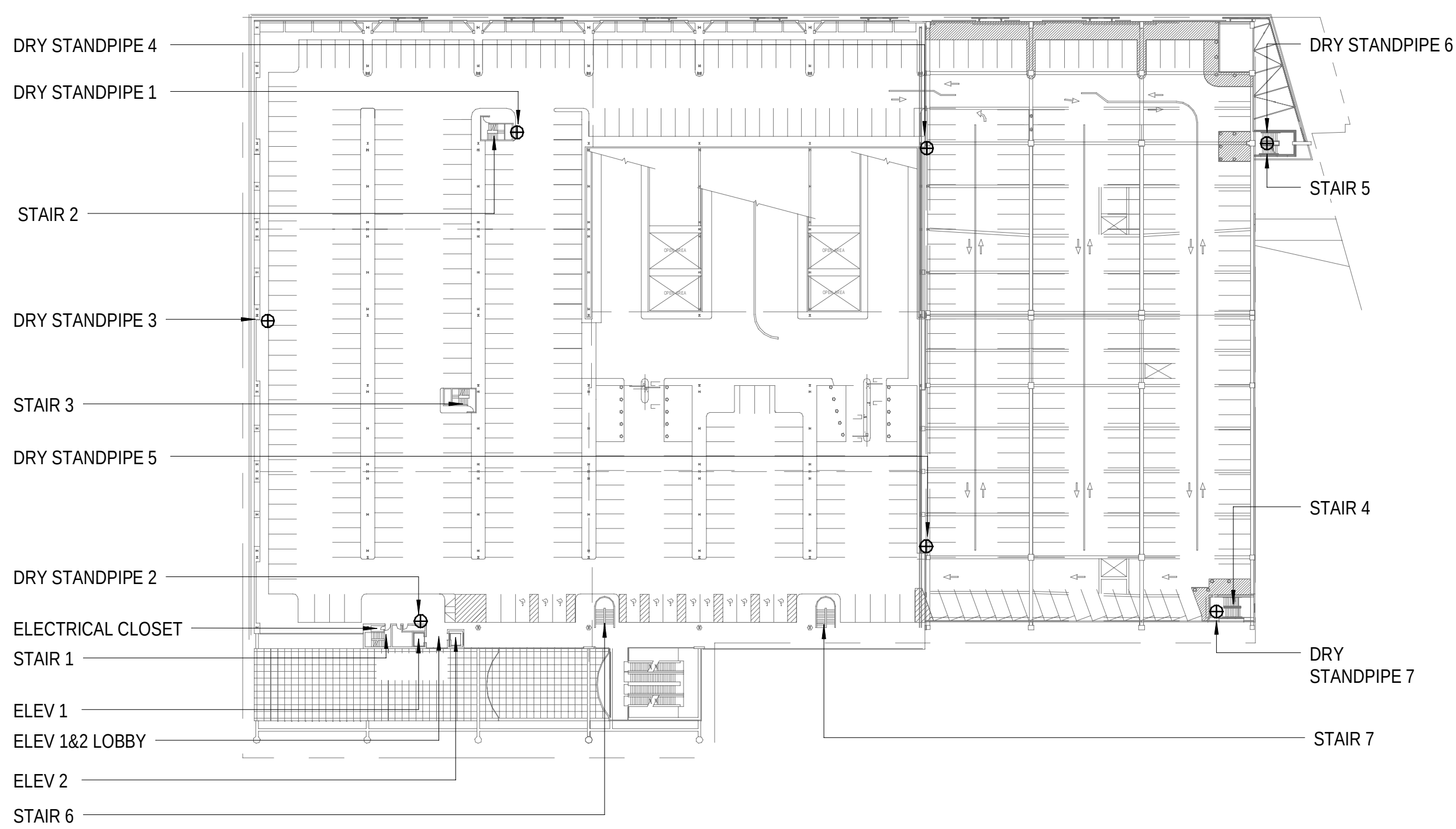
5 FIRE ALARM ANNUNCIATOR - MEZZANINE LEVEL
1/64" = 1'-0"



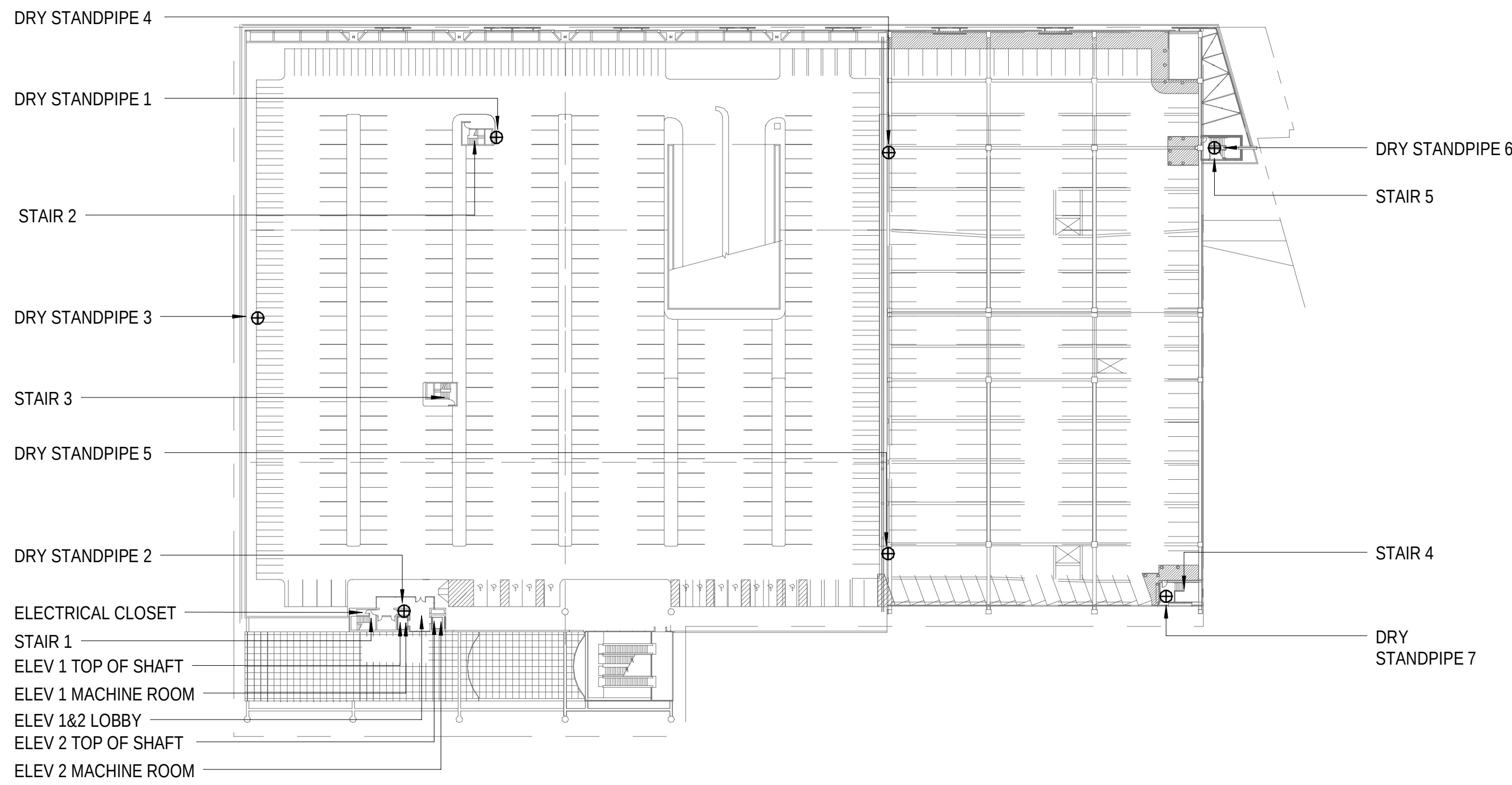
6 FIRE ALARM ANNUNCIATOR - FIRST LEVEL
1/64" = 1'-0"



7 FIRE ALARM ANNUNCIATOR - SECOND LEVEL
1/64" = 1'-0"



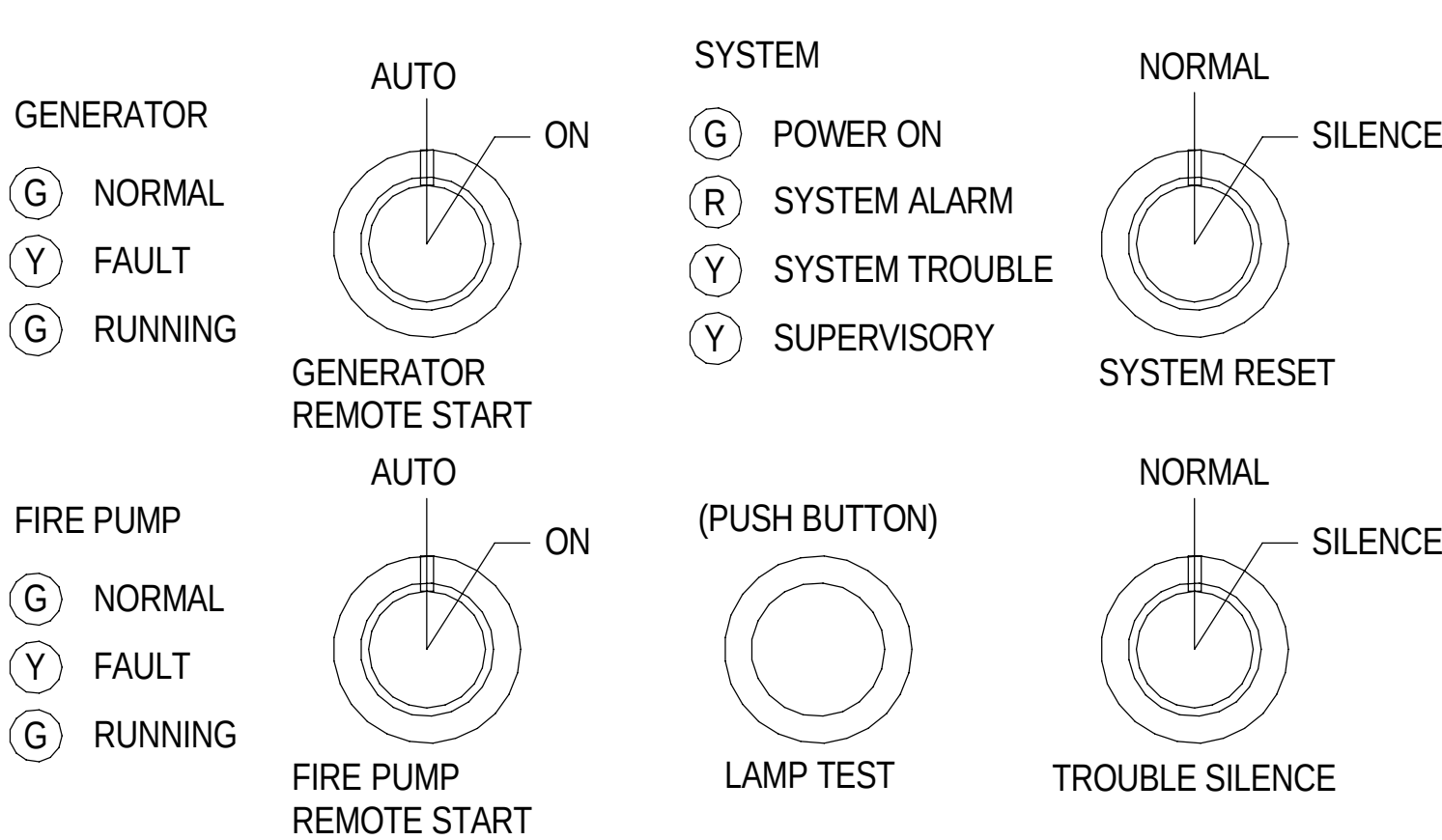
8 FIRE ALARM ANNUNCIATOR - THIRD LEVEL
1/64" = 1'-0"



9 FIRE ALARM ANNUNCIATOR - FOURTH (ROOF) LEVEL
1/64" = 1'-0"

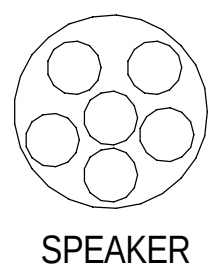
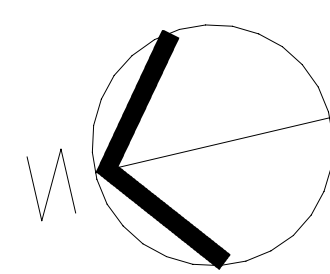
LOCATION								
Y	R	ROOF	Y	R	ELEV 3 MACHINE ROOM	Y	R	STAIR 3
Y	R	LEVEL 3	Y	R	ELEV 1&2 LOBBY	Y	R	STAIR 4
Y	R	LEVEL 2	Y	R	ELEV 3 LOBBY	Y	R	STAIR 5
Y	R	LEVEL 1	Y	R	ELEV 1 PIT	Y	R	STAIR 6
Y	R	MEZZANINE LEVEL	Y	R	ELEV 2 PIT	Y	R	STAIR 7
Y	R	BUS DECK LEVEL	Y	R	ELEV 3 PIT	Y	R	STAIR 10
Y	R	GALLERY LEVEL	Y	R	ELEV 1 TOP OF SHAFT	Y	R	SPARE
Y	R	UPPER TRACK LEVEL	Y	R	ELEV 2 TOP OF SHAFT	Y	R	SPARE
Y	R	FIRST STREET LEVEL	Y	R	ELEV 3 TOP OF SHAFT	Y	R	SPARE
Y	R	ELEV 1 MACHINE ROOM	Y	R	STAIR 1	Y	R	SPARE
Y	R	ELEV 2 MACHINE ROOM	Y	R	STAIR 2	Y	R	SPARE

DEVICE		
(R) MANUAL STATION	(Y) ELEVATOR SHUNT TRIP POWER	
(R) SMOKE DETECTOR	(Y) FIRE SERVICE LINE VALVE TAMPER	
(R) HEAT DETECTOR	(Y) FIRE SERVICE LINE WATER FLOW	
(R) ELEVATOR LOBBY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM HEAT DETECTOR	(R) SPARE	
(Y) SPRINKLER WATER FLOW	(Y) SPARE	
(Y) SPRINKLER VALVE TAMPER SWITCH	(Y) SPARE	
(Y) DRY PIPE HILO AIR PRESSURE	(Y) SPARE	



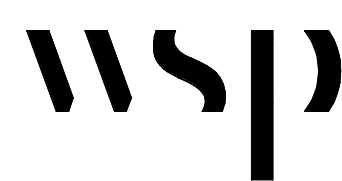
FIRE ALARM ANNUNCIATOR PANEL FIRE DEPARTMENT CONNECTION 101 H ST NE, WASHINGTON, DC 20002

ON ALL FIRE ALARM ANNUNCIATOR PANELS, COORDINATE AND PROVIDE FIRE ALARM ZONING AND ALARM INDICATOR LIGHTS FOR EACH FLOOR WITH SPRINKLER ZONING DRAWINGS.



LEGEND	
(FACP)	FIRE ALARM CONTROL PANEL
(FAAP)	FIRE ALARM ANNUNCIATOR PANEL
(S)	STANDPIPE LOCATION
(P)	POINT OF ENTRY
(Z)	FIRE ALARM ZONE
(FDC)	FIRE DEPARTMENT CONNECTION (FDC)
(G)	INDICATES GREEN LED
(R)	INDICATES RED LED
(Y)	INDICATES YELLOW LED

MEPFPT Engineer:



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Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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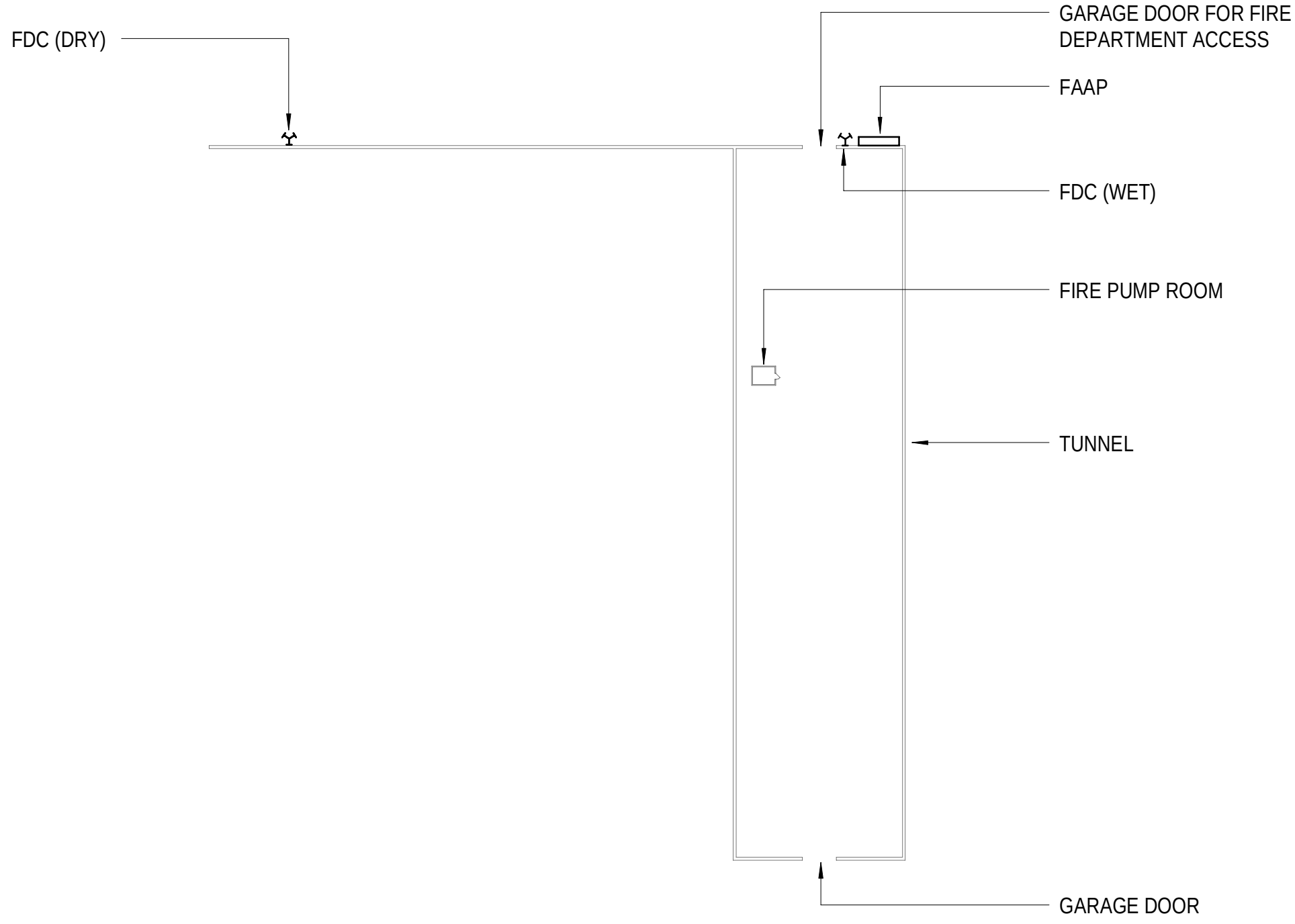
PROJECT PM SUPPORT SERVICES FIRE ALARM SYSTEM UPGRADE

OWNER UNION STATION REDEVELOPMENT CORPORATION

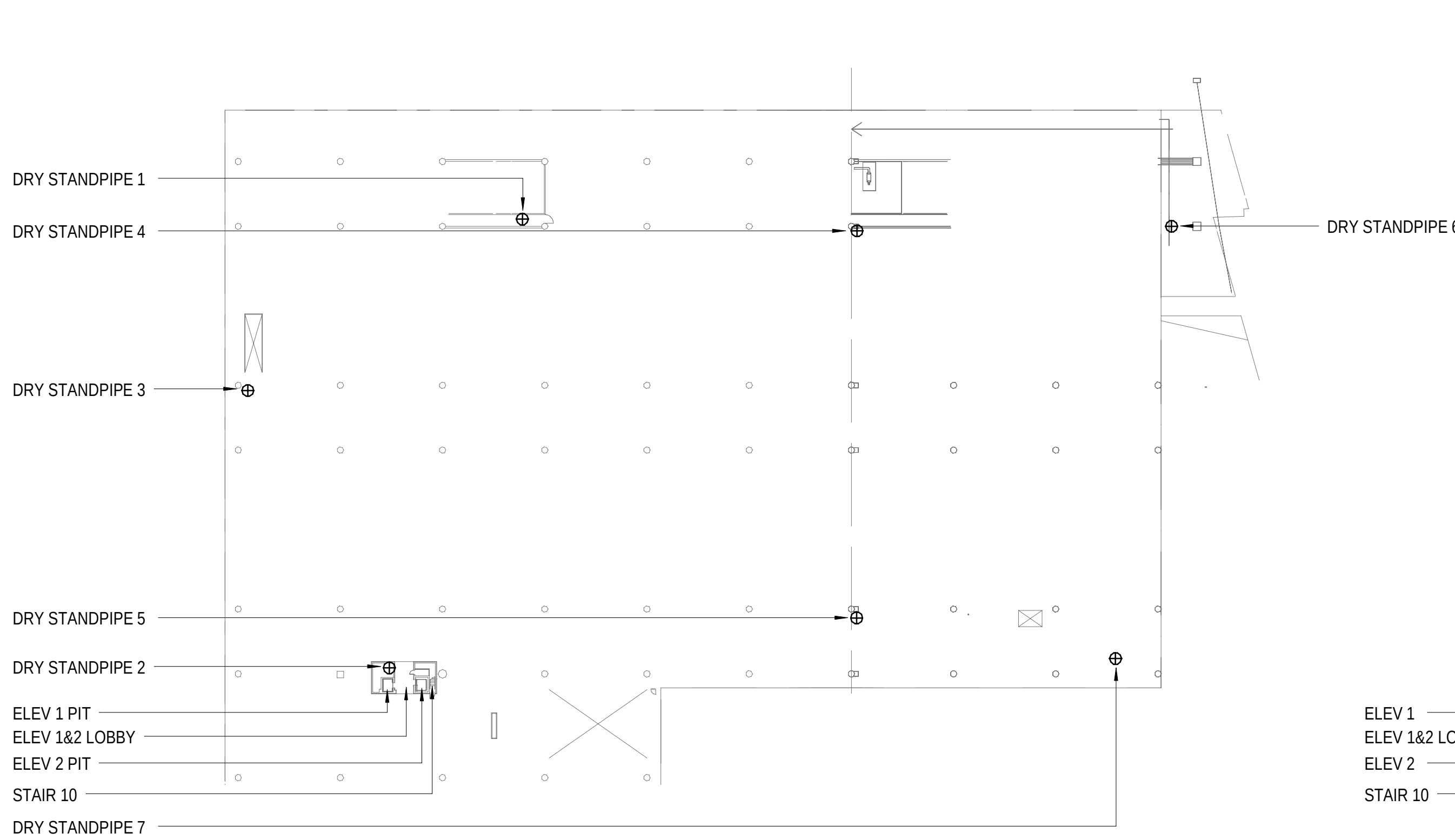
TITLE FIRE ALARM - ANNUNCIATOR PANEL - FIRE DEPARTMENT CONNECTION

PROJECT NO.:	US-WSP-192801E	FA5.01-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	As indicated	

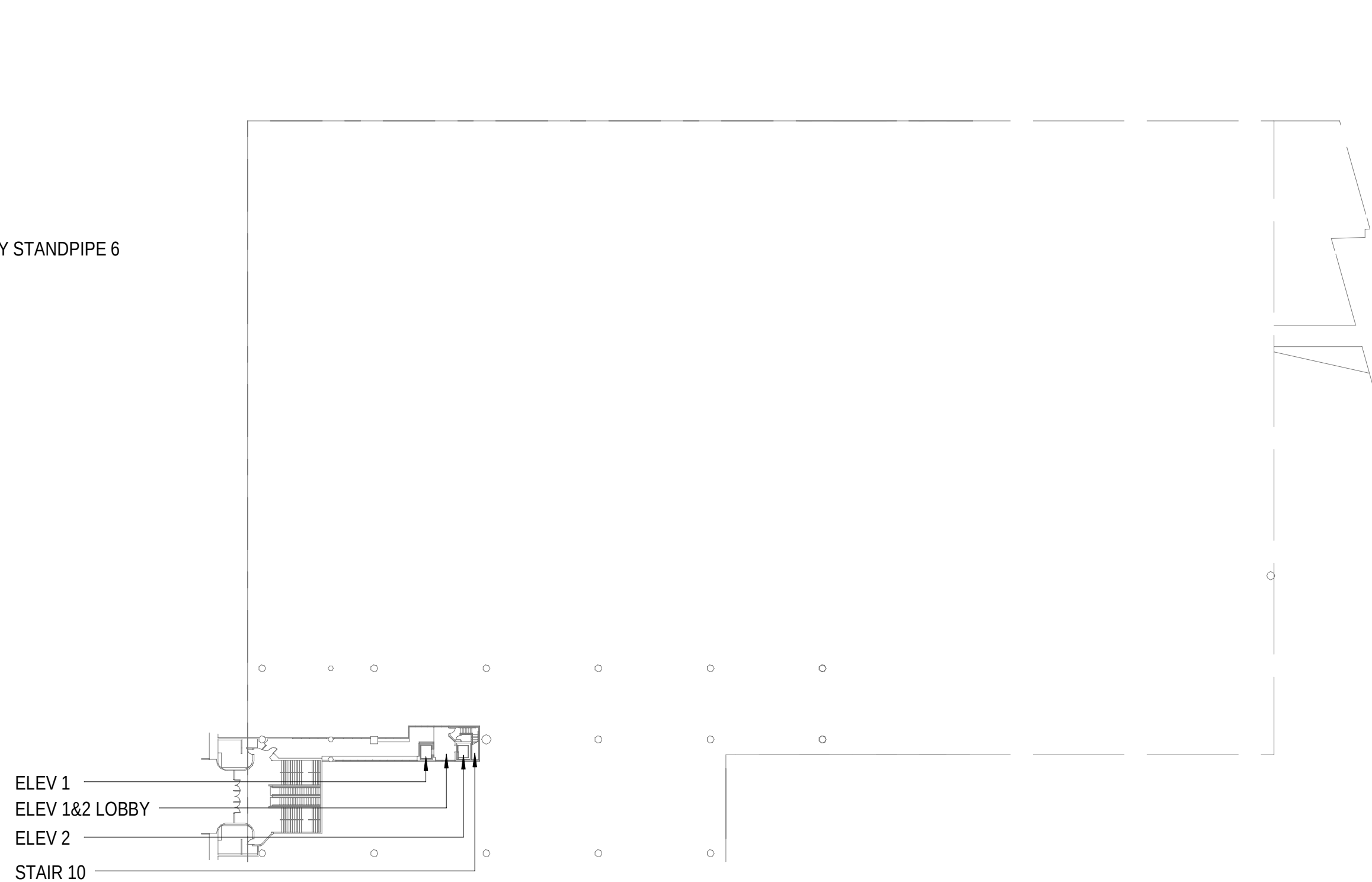
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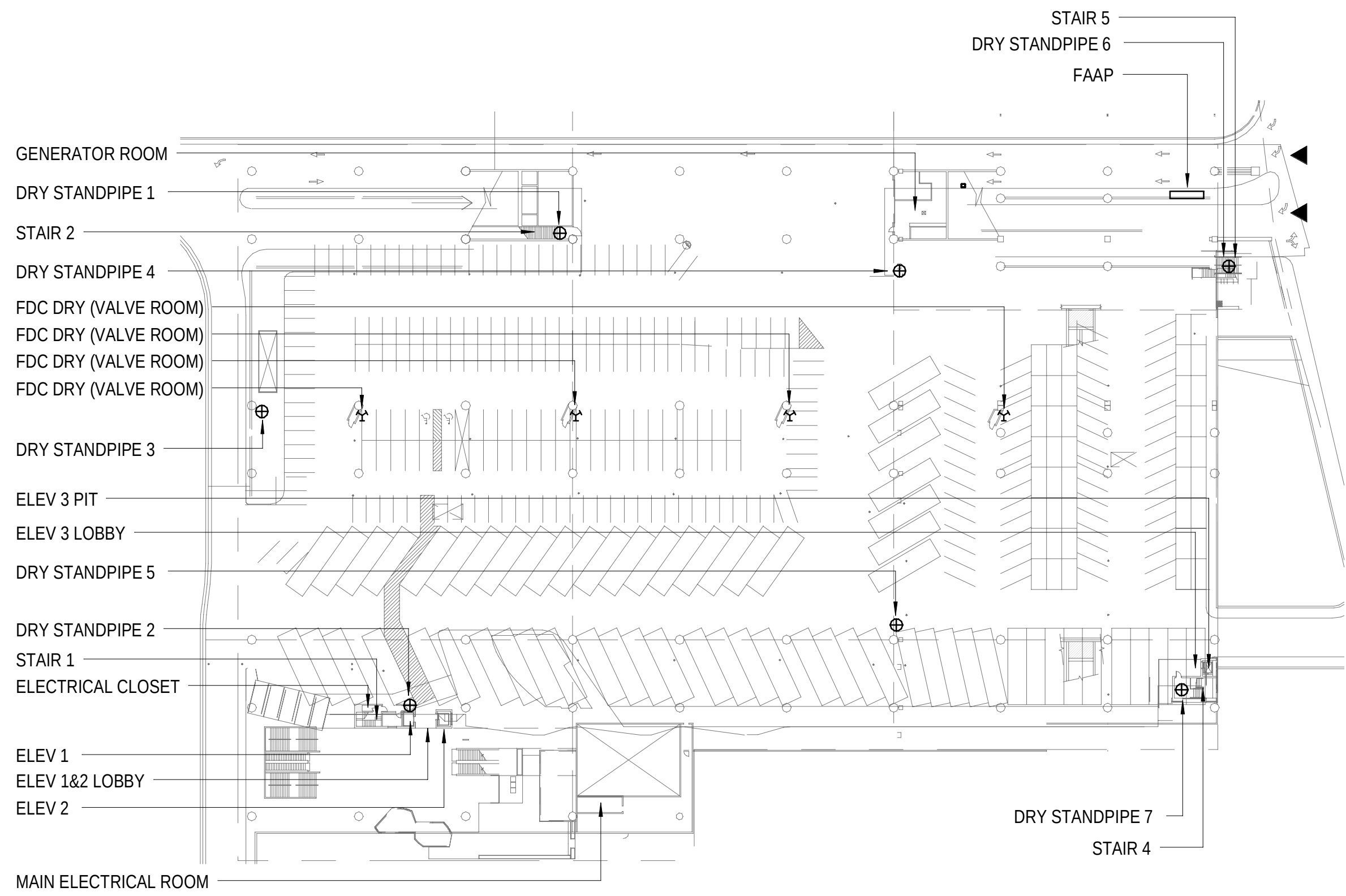
① FIRE ALARM ANNUNCIATOR - FIRST STREET LEVEL
1/64" = 1'-0"



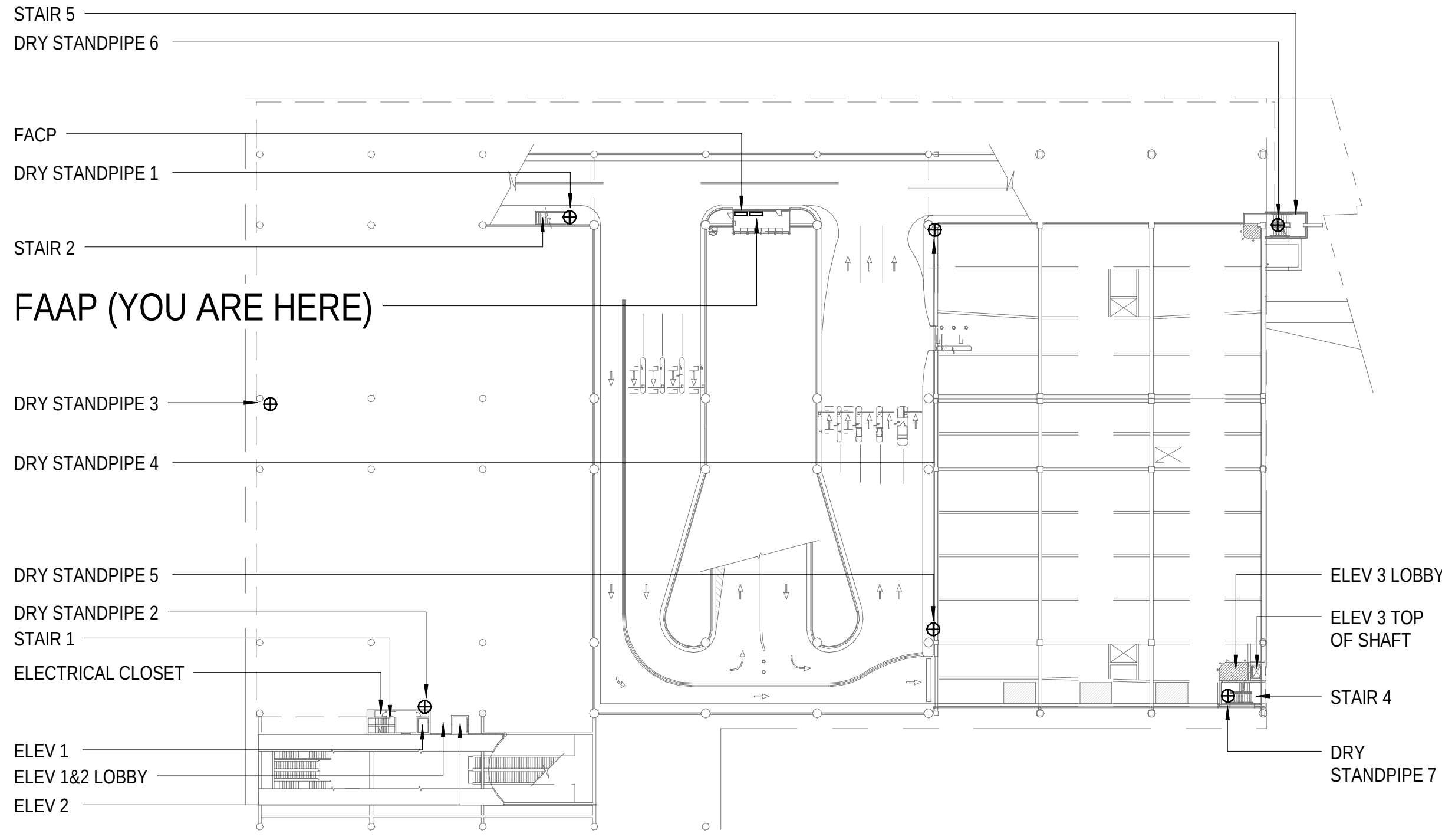
② FIRE ALARM ANNUNCIATOR - UPPER TRACK LEVEL
1/64" = 1'-0"



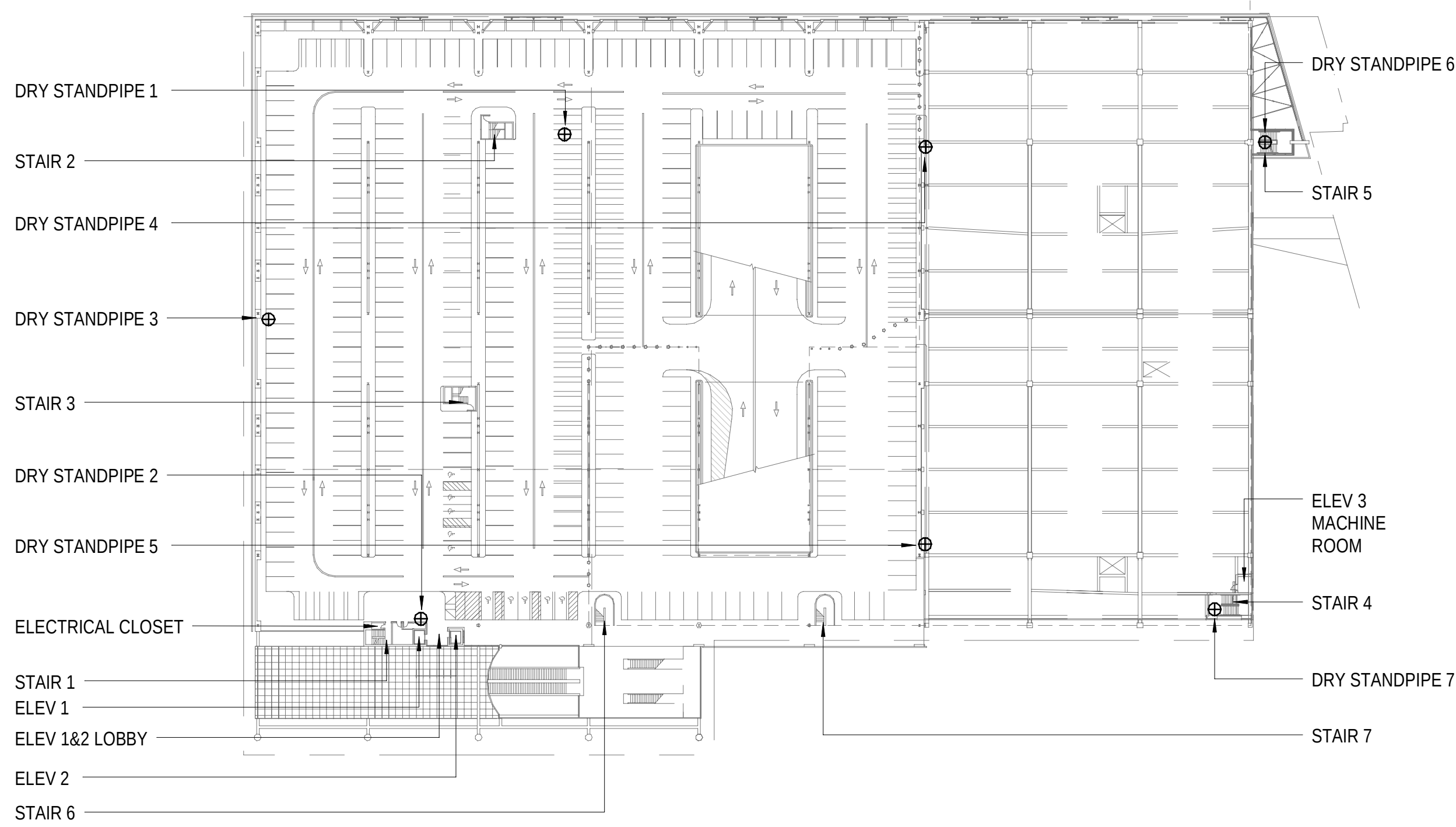
③ FIRE ALARM ANNUNCIATOR - GALLERY LEVEL
1/64" = 1'-0"



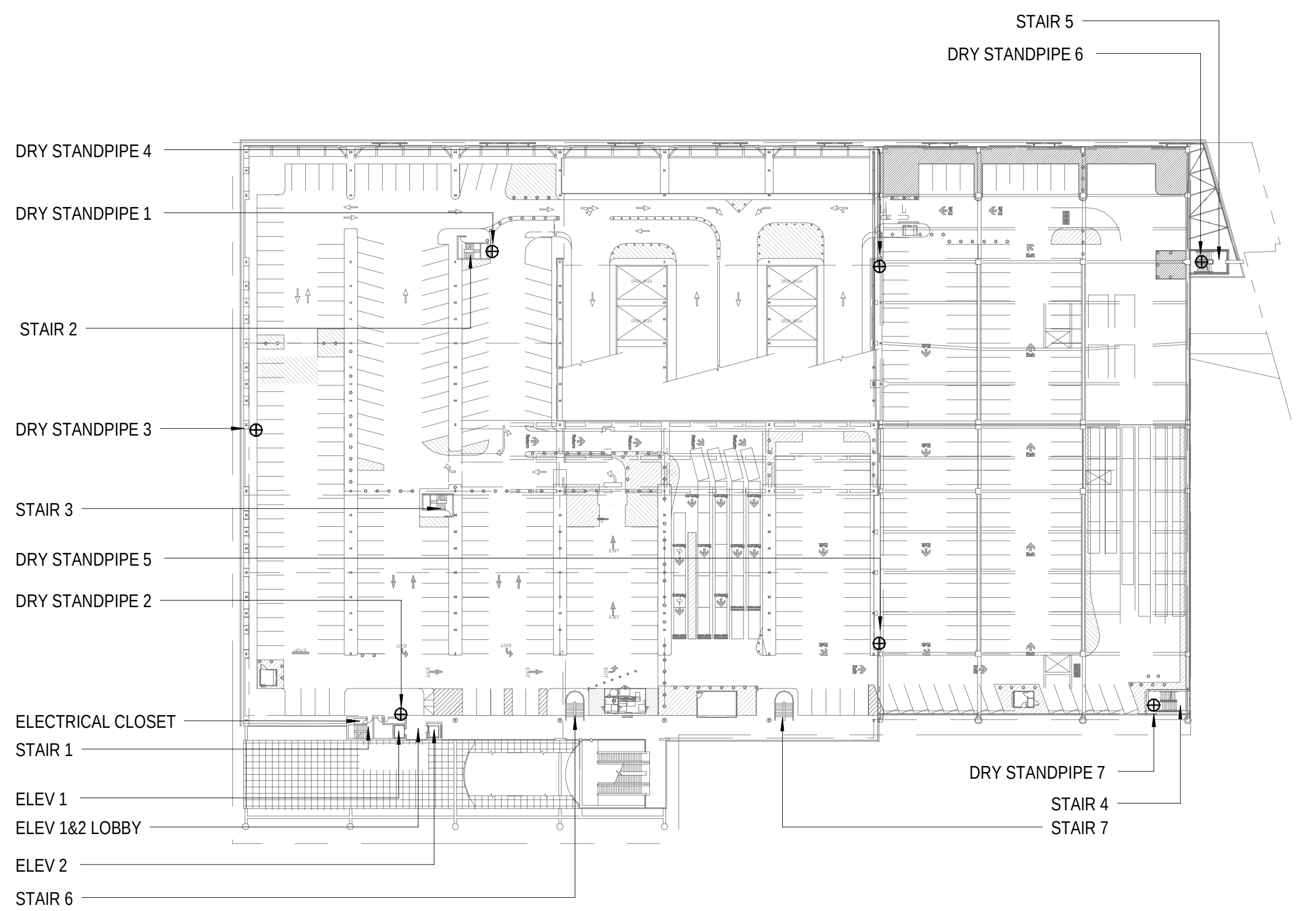
④ FIRE ALARM ANNUNCIATOR - BUS DECK LEVEL
1/64" = 1'-0"



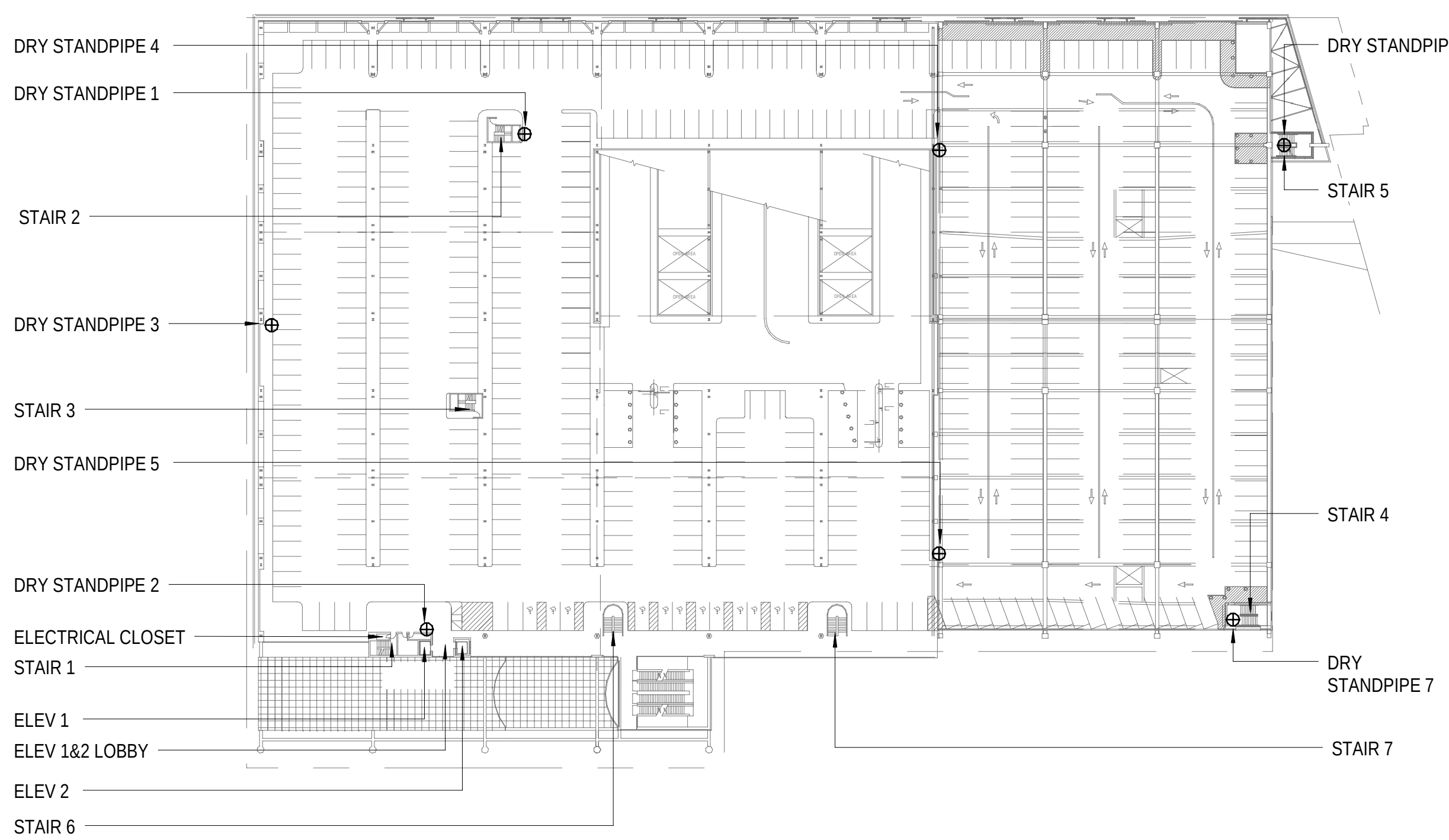
⑤ FIRE ALARM ANNUNCIATOR - MEZZANINE LEVEL
1/64" = 1'-0"



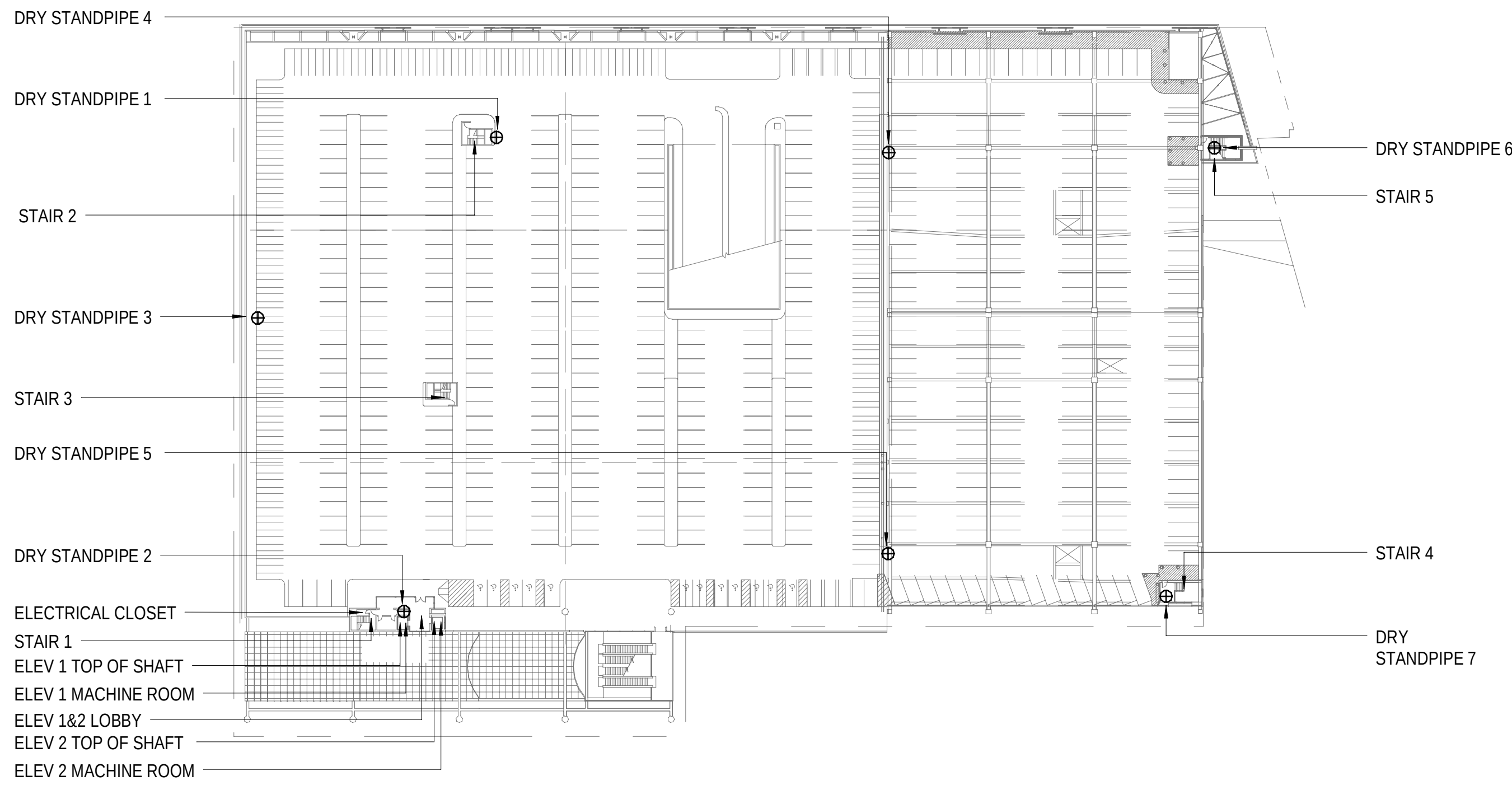
⑥ FIRE ALARM ANNUNCIATOR - FIRST LEVEL
1/64" = 1'-0"



⑦ FIRE ALARM ANNUNCIATOR - SECOND LEVEL
1/64" = 1'-0"



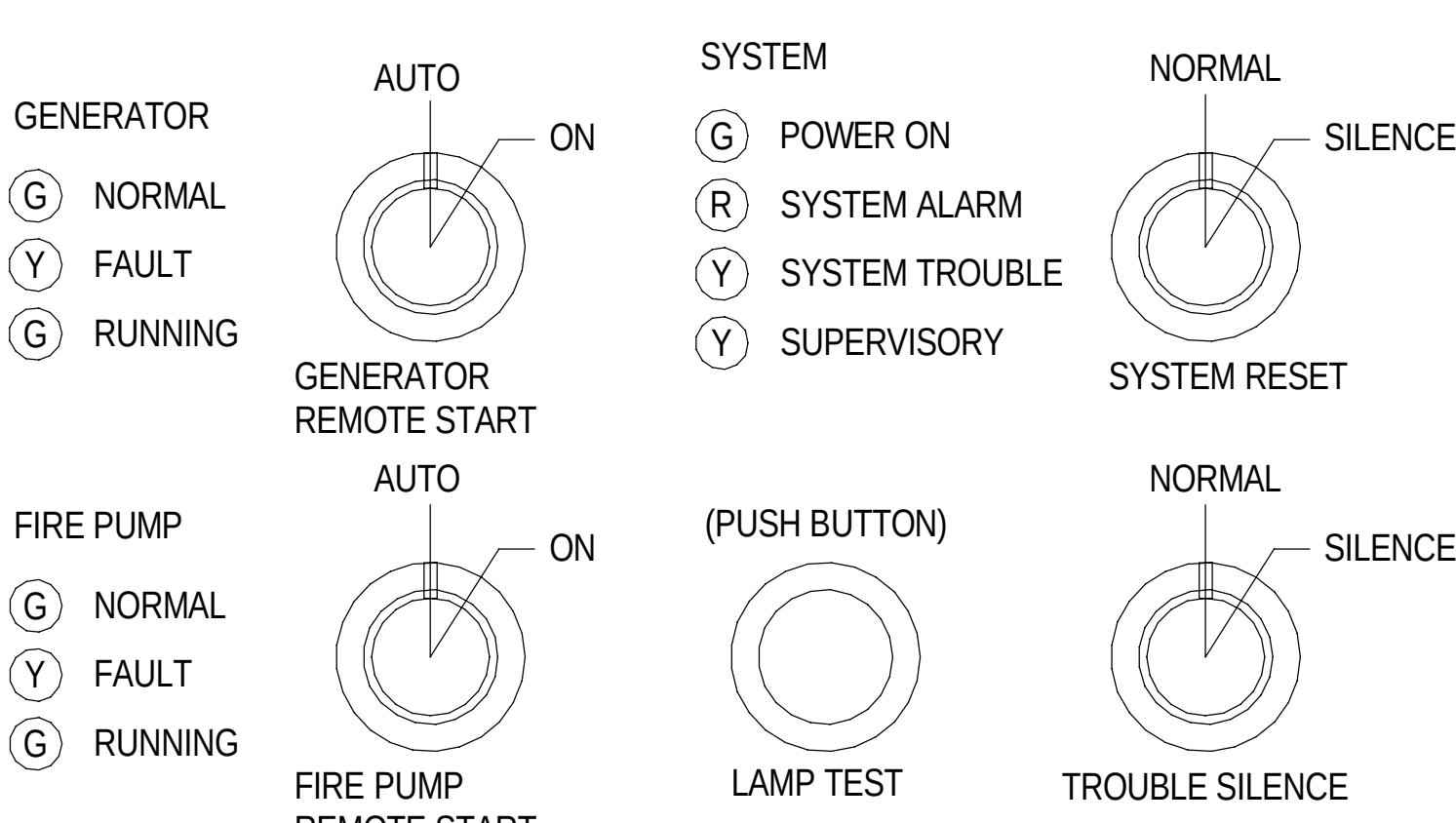
⑧ FIRE ALARM ANNUNCIATOR - THIRD LEVEL
1/64" = 1'-0"



⑨ FIRE ALARM ANNUNCIATOR - FOURTH (ROOF) LEVEL
1/64" = 1'-0"

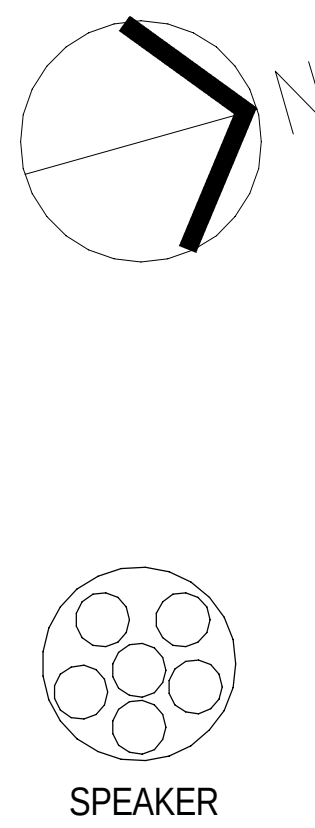
LOCATION								
Y	R	ROOF	Y	R	ELEV 3 MACHINE ROOM	Y	R	STAIR 3
Y	R	LEVEL 3	Y	R	ELEV 1&2 LOBBY	Y	R	STAIR 4
Y	R	LEVEL 2	Y	R	ELEV 3 LOBBY	Y	R	STAIR 5
Y	R	LEVEL 1	Y	R	ELEV 1 PIT	Y	R	STAIR 6
Y	R	MEZZANINE LEVEL	Y	R	ELEV 2 PIT	Y	R	STAIR 7
Y	R	BUS DECK LEVEL	Y	R	ELEV 3 PIT	Y	R	STAIR 10
Y	R	GALLERY LEVEL	Y	R	ELEV 1 TOP OF SHAFT	Y	R	SPARE
Y	R	UPPER TRACK LEVEL	Y	R	ELEV 2 TOP OF SHAFT	Y	R	SPARE
Y	R	FIRST STREET LEVEL	Y	R	ELEV 3 TOP OF SHAFT	Y	R	SPARE
Y	R	ELEV 1 MACHINE ROOM	Y	R	STAIR 1	Y	R	SPARE
Y	R	ELEV 2 MACHINE ROOM	Y	R	STAIR 2	Y	R	SPARE

DEVICE		
(R) MANUAL STATION	(Y) ELEVATOR SHUNT TRIP POWER	
(R) SMOKE DETECTOR	(Y) FIRE SERVICE LINE VALVE TAMPER	
(R) HEAT DETECTOR	(Y) FIRE SERVICE LINE WATER FLOW	
(R) ELEVATOR LOBBY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM HEAT DETECTOR	(Y) SPARE	
(Y) SPRINKLER WATER FLOW	(Y) SPARE	
(Y) SPRINKLER VALVE TAMPER SWITCH	(Y) SPARE	
(Y) DRY PIPE HI/LO AIR PRESSURE	(Y) SPARE	



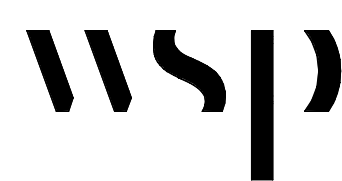
FIRE ALARM
ANNUNCIATOR PANEL
SECURITY OFFICE
101 H ST NE,
WASHINGTON, DC 20002

ON ALL FIRE ALARM ANNUNCIATOR PANELS, COORDINATE AND PROVIDE FIRE ALARM ZONING AND ALARM INDICATOR LIGHTS FOR EACH FLOOR WITH SPRINKLER ZONING DRAWINGS.



LEGEND	
[FACP]	FIRE ALARM CONTROL PANEL
[FAAP]	FIRE ALARM ANNUNCIATOR PANEL
[CIRCLE WITH CROSS]	STANDPIPE LOCATION
[TRIANGLE]	POINT OF ENTRY
[ZONING LINE]	FIRE ALARM ZONE
[FDC CONNECTION]	FIRE DEPARTMENT CONNECTION (FDC)
[C]	INDICATES GREEN LED
[R]	INDICATES RED LED
[Y]	INDICATES YELLOW LED

MEPFPT Engineer:



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1300 N 17TH ST, SUITE 1000
ARLINGTON VA, 22209
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wsp.com

Architect:

Structural Engineer:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE

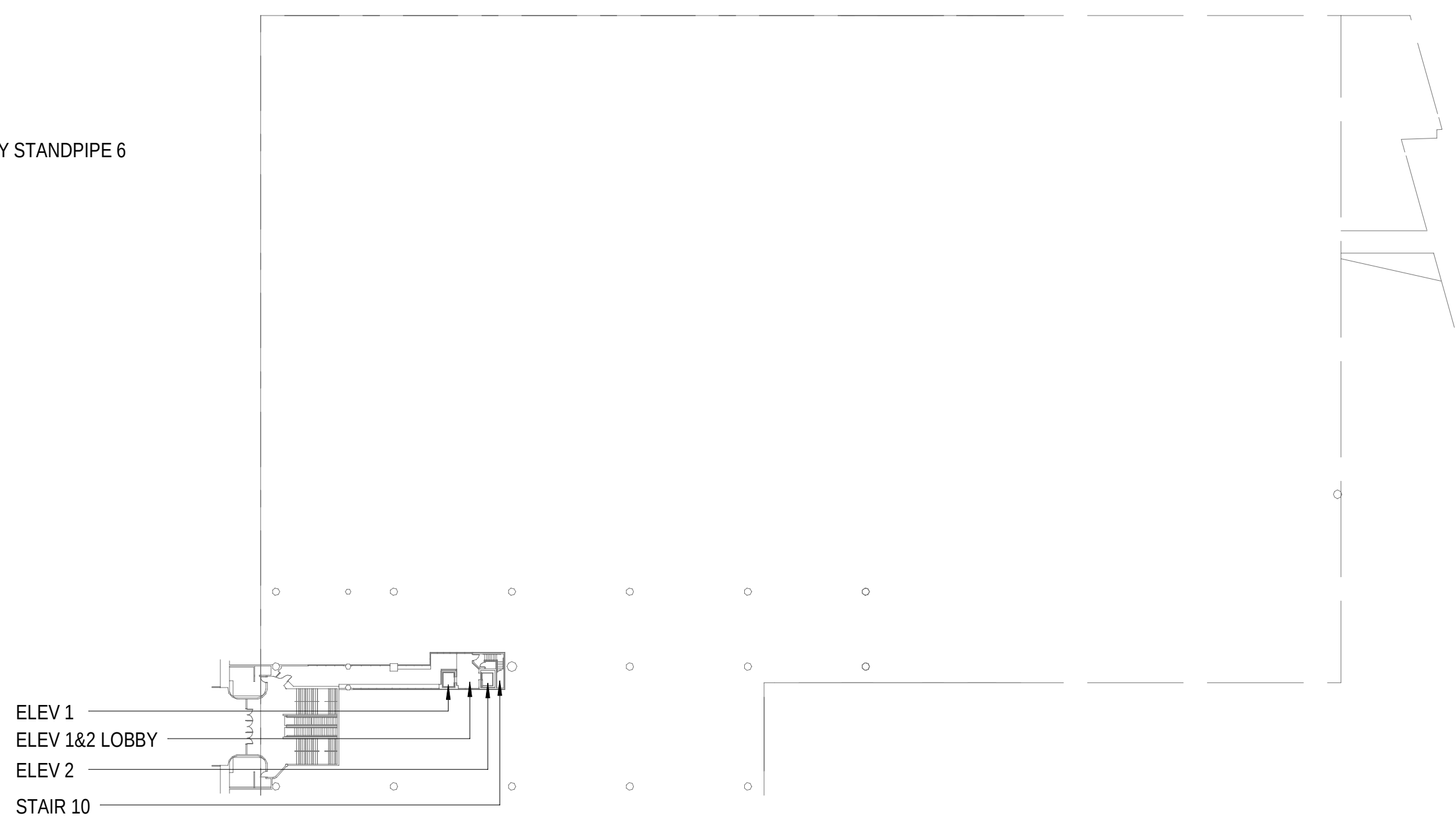
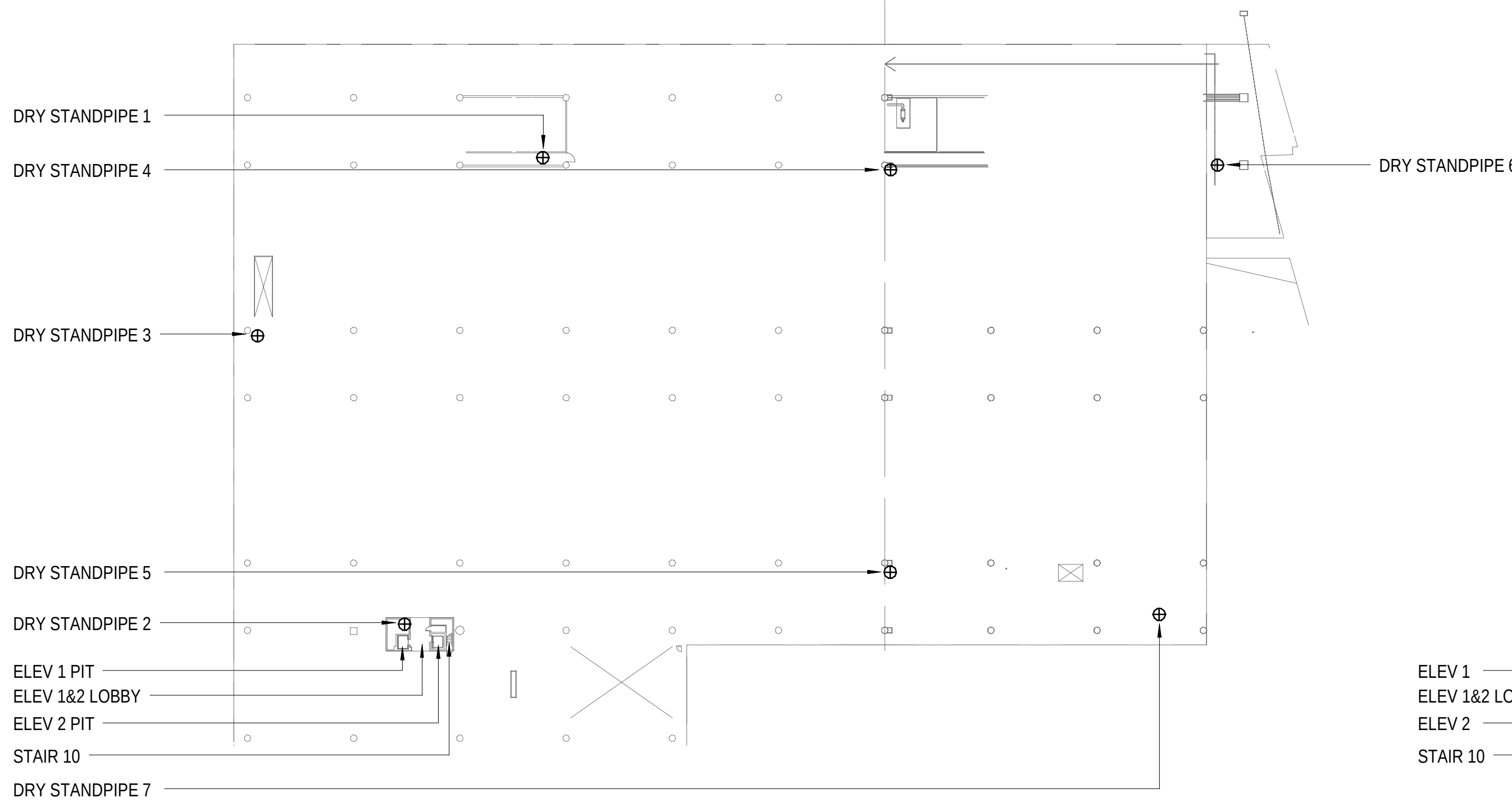
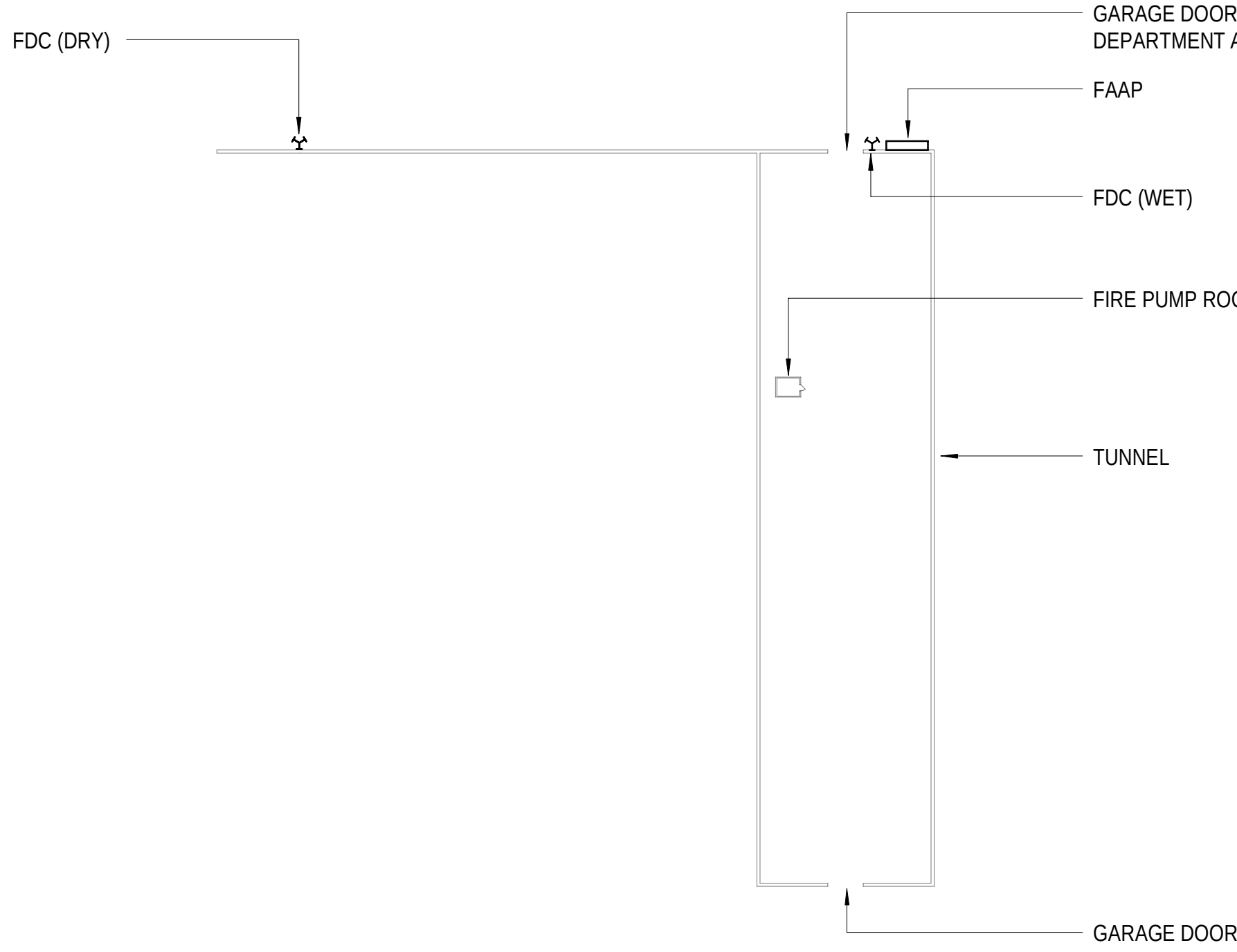
PROJECT
**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM -
ANNUNCIATOR PANEL
- SECURITY OFFICE**

PROJECT NO.:	US-WSP-192801E	FA5.02-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	As indicated	

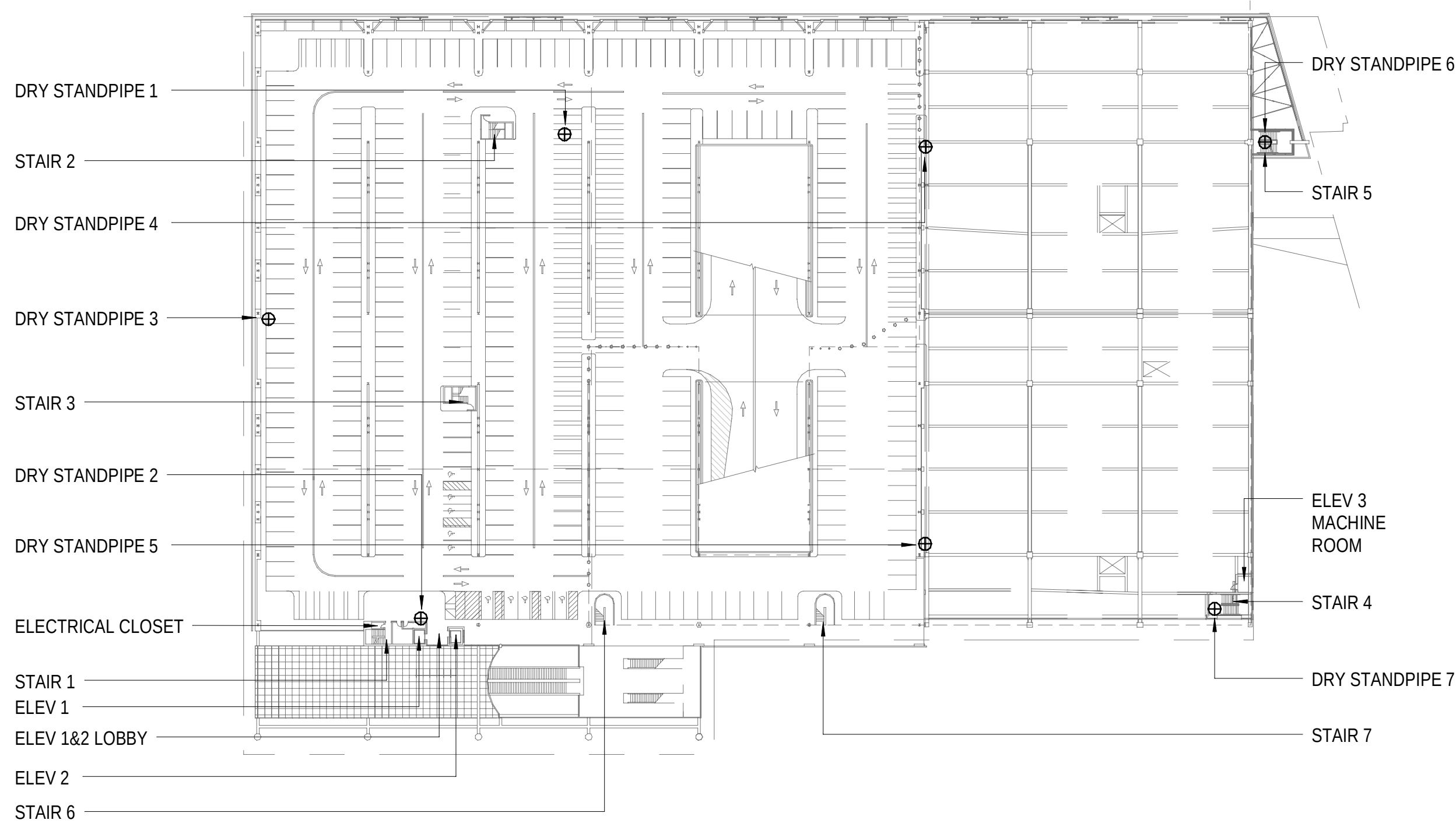
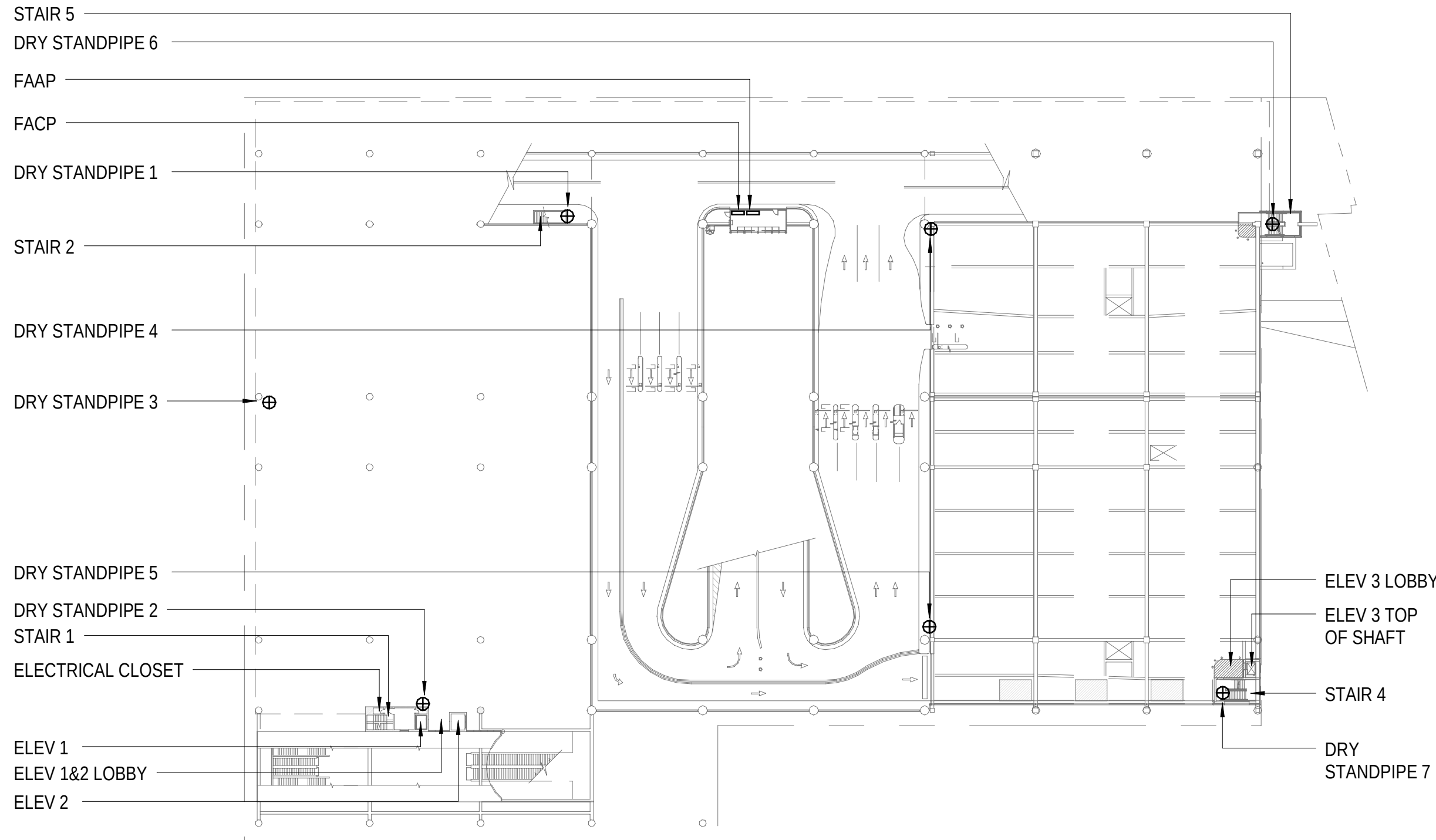
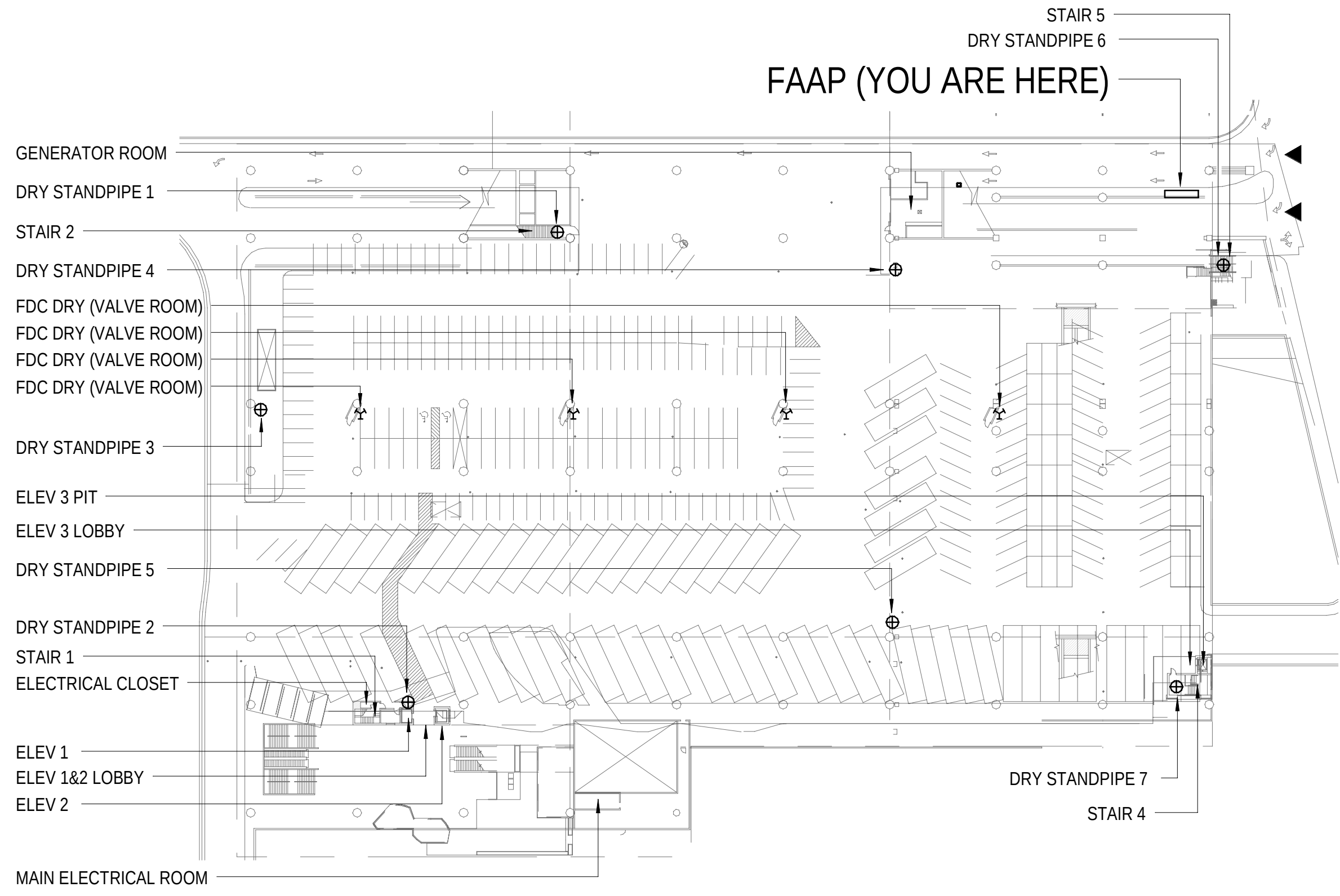
10/20/2025 4:19:45 PM Autodesk Docs\\RP200-PM Support Services-GenRm-R25-CSPM Support Services-Generator Room_WSP_MEP_2025.rvt



1 FIRE ALARM ANNUNCIATOR - FIRST STREET LEVEL
1/64" = 1'-0"

2 FIRE ALARM - UPPER TRACK LEVEL
1/64" = 1'-0"

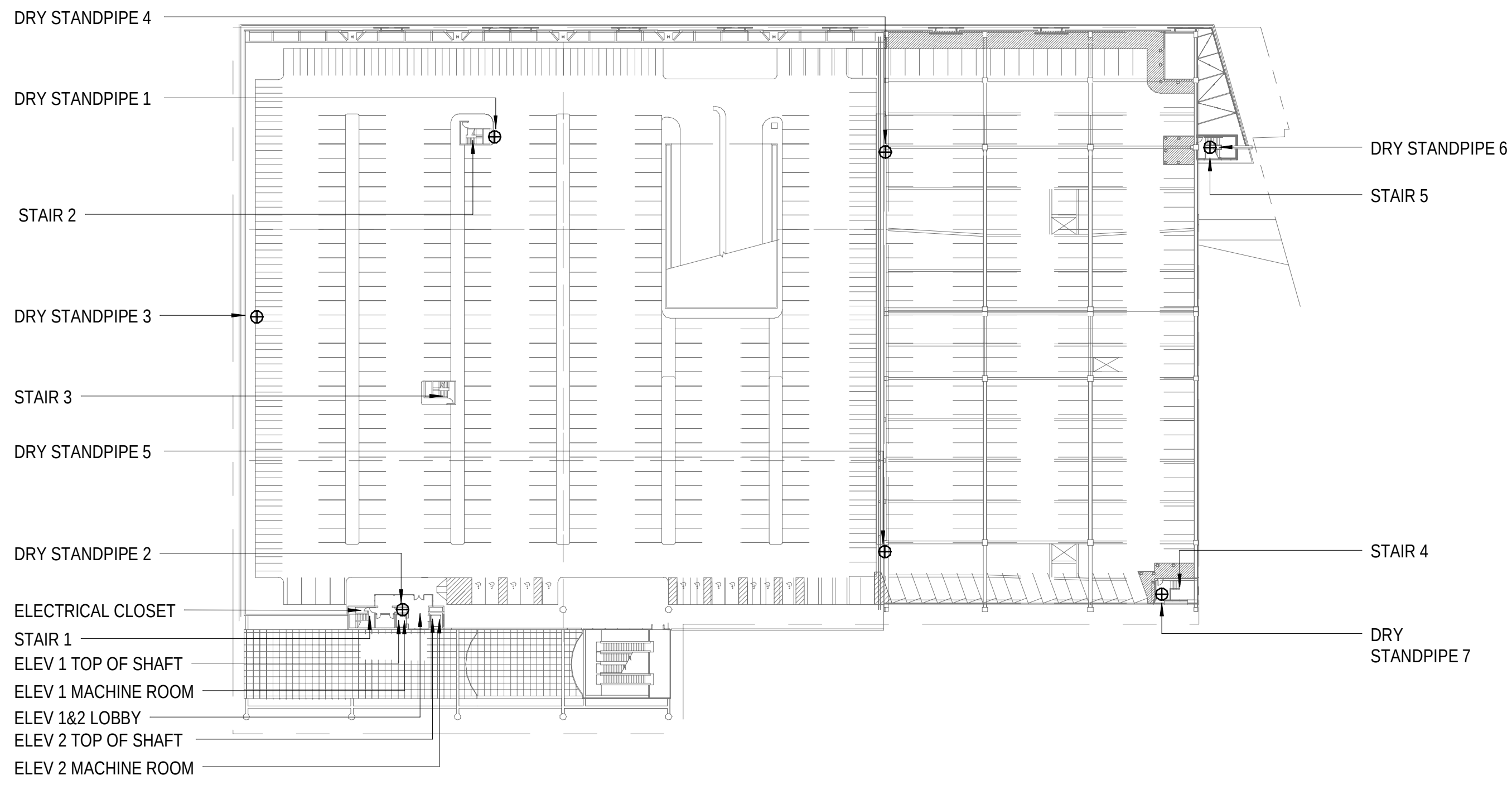
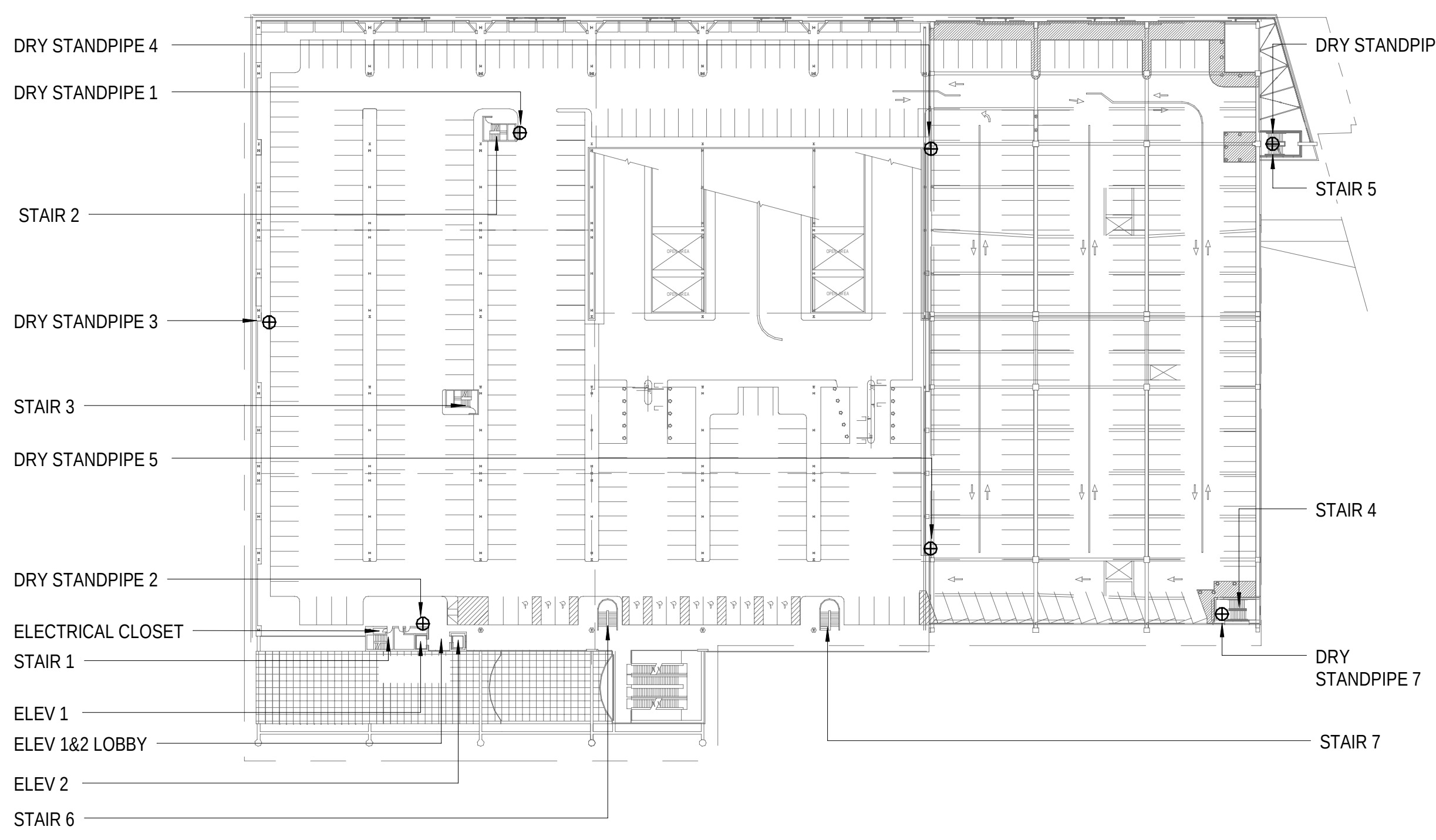
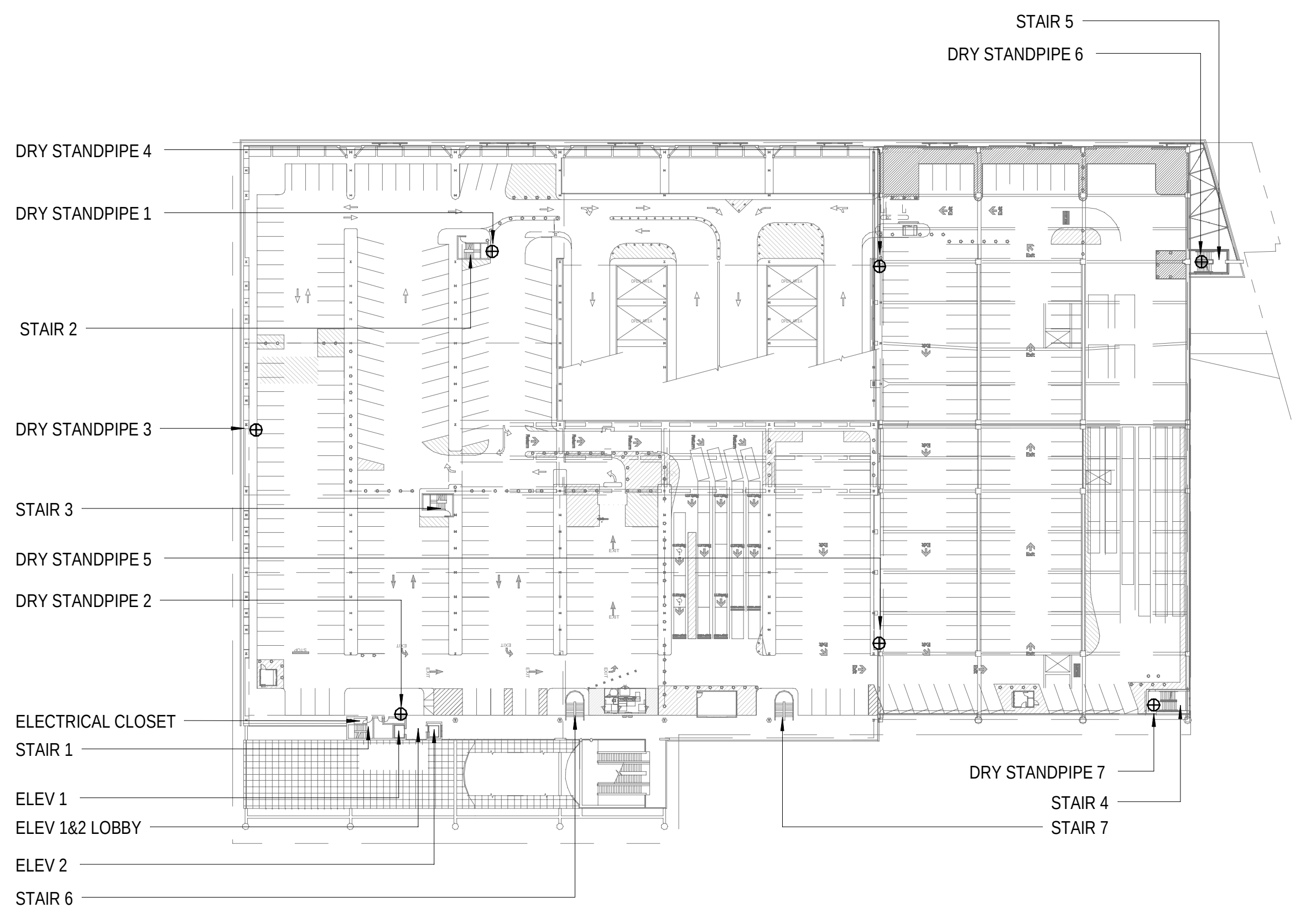
3 FIRE ALARM ANNUNCIATOR - GALLERY LEVEL
1/64" = 1'-0"



4 FIRE ALARM ANNUNCIATOR - BUS DECK LEVEL
1/64" = 1'-0"

5 FIRE ALARM ANNUNCIATOR - MEZZANINE LEVEL
1/64" = 1'-0"

6 FIRE ALARM ANNUNCIATOR - FIRST LEVEL
1/64" = 1'-0"



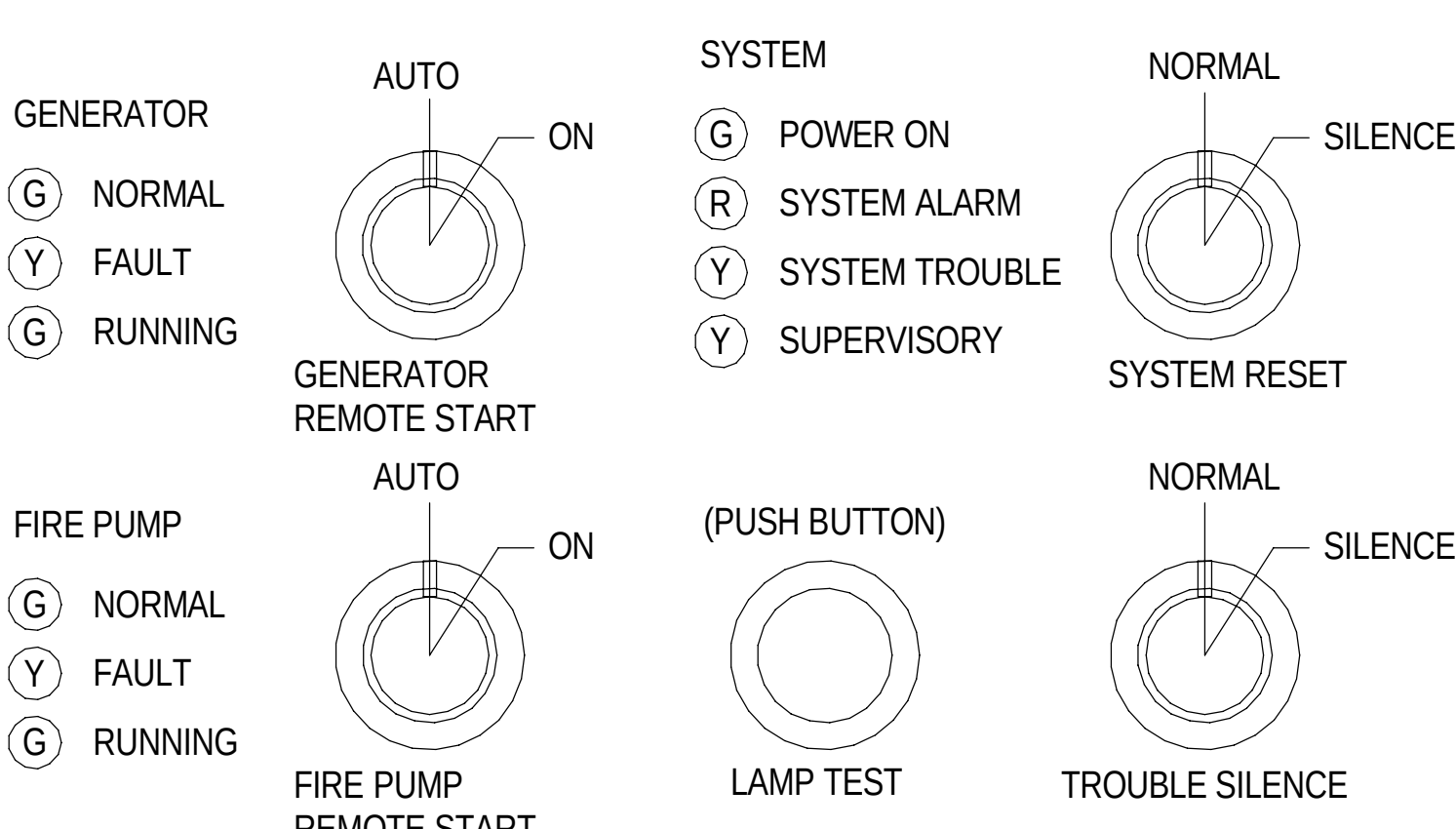
7 FIRE ALARM ANNUNCIATOR - SECOND LEVEL
1/64" = 1'-0"

8 FIRE ALARM ANNUNCIATOR - THIRD LEVEL
1/64" = 1'-0"

9 FIRE ALARM ANNUNCIATOR - FOURTH (ROOF) LEVEL
1/64" = 1'-0"

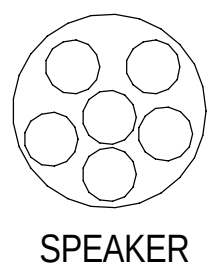
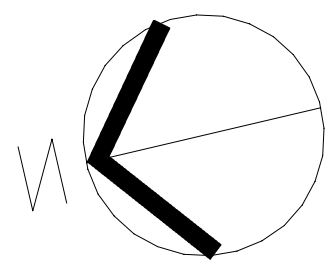
LOCATION								
(Y)	(R)	ROOF	(Y)	(R)	ELEV 3 MACHINE ROOM	(Y)	(R)	STAIR 3
(Y)	(R)	LEVEL 3	(Y)	(R)	ELEV 1&2 LOBBY	(Y)	(R)	STAIR 4
(Y)	(R)	LEVEL 2	(Y)	(R)	ELEV 3 LOBBY	(Y)	(R)	STAIR 5
(Y)	(R)	LEVEL 1	(Y)	(R)	ELEV 1 PIT	(Y)	(R)	STAIR 6
(Y)	(R)	MEZZANINE LEVEL	(Y)	(R)	ELEV 2 PIT	(Y)	(R)	STAIR 7
(Y)	(R)	BUS DECK LEVEL	(Y)	(R)	ELEV 3 PIT	(Y)	(R)	STAIR 10
(Y)	(R)	GALLERY LEVEL	(Y)	(R)	ELEV 1 TOP OF SHAFT	(Y)	(R)	SPARE
(Y)	(R)	UPPER TRACK LEVEL	(Y)	(R)	ELEV 2 TOP OF SHAFT	(Y)	(R)	SPARE
(Y)	(R)	FIRST STREET LEVEL	(Y)	(R)	ELEV 3 TOP OF SHAFT	(Y)	(R)	SPARE
(Y)	(R)	ELEV 1 MACHINE ROOM	(Y)	(R)	STAIR 1	(Y)	(R)	SPARE
(Y)	(R)	ELEV 2 MACHINE ROOM	(Y)	(R)	STAIR 2	(Y)	(R)	SPARE

DEVICE		
(R) MANUAL STATION	(Y) ELEVATOR SHUNT TRIP POWER	
(R) SMOKE DETECTOR	(Y) FIRE SERVICE LINE VALVE TAMPER	
(R) HEAT DETECTOR	(Y) FIRE SERVICE LINE WATER FLOW	
(R) ELEVATOR LOBBY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR HOISTWAY HEAT DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM SMOKE DETECTOR	(R) SPARE	
(R) ELEVATOR MACHINE ROOM HEAT DETECTOR	(R) SPARE	
(Y) SPRINKLER WATER FLOW	(Y) SPARE	
(Y) SPRINKLER VALVE TAMPER SWITCH	(Y) SPARE	
(Y) DRY PIPE HILO AIR PRESSURE	(Y) SPARE	



FIRE ALARM
ANNUNCIATOR PANEL
MAIN ENTRANCE
101 H ST NE,
WASHINGTON, DC 20002

ON ALL FIRE ALARM ANNUNCIATOR PANELS, COORDINATE AND PROVIDE FIRE ALARM ZONING AND ALARM INDICATOR LIGHTS FOR EACH FLOOR WITH SPRINKLER ZONING DRAWINGS.



LEGEND	
(FACP)	FIRE ALARM CONTROL PANEL
(FAAP)	FIRE ALARM ANNUNCIATOR PANEL
(S)	STANDPIPE LOCATION
(P)	POINT OF ENTRY
(Z)	FIRE ALARM ZONE
(FDC)	FIRE DEPARTMENT CONNECTION (FDC)
(G)	INDICATES GREEN LED
(R)	INDICATES RED LED
(Y)	INDICATES YELLOW LED

MEPFPT Engineer:



WSP USA Buildings Inc.
1300 N 17TH ST, SUITE 1000
ARLINGTON VA, 22209
(703) 362-2800
wsp.com

Architect:

Structural Engineer:

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE

PROJECT
**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

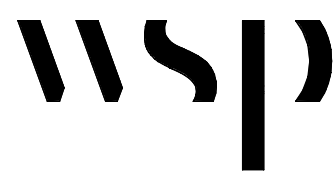
OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM -
ANNUNCIATOR PANEL
- MAIN ENTRANCE**

PROJECT NO.:	US-WSP-192801E	FA5.02-4
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	As indicated	

FIRE ALARM SYSTEM MATRIX	TRANSMIT SIGNAL TO CENTRAL STATION	ACTIVATE AUDIO ALARMS	ACTIVATE ELEVATOR CAR SPEAKER	ACTIVATE VISUAL ALARMS	ACTIVATE ELEVATOR RECALL SYSTEM	ACTIVATE ELEVATOR SHUNT TRIP	INDICATE ALARM AT FACP & PAAP	INDICATE TROUBLE AT FACP & PAAP	INDICATE SUPERVISORY AT FACP & PAAP
MANUAL PULL STATION	X	X	X	X			X		
SMOKE DETECTOR	X	X	X	X			X		
HEAT DETECTOR	X	X	X	X			X		
DUCT SMOKE DETECTOR	X								X
ELEVATOR LOBBY SMOKE/HEAT DETECTOR	X	X	X	X	X		X		
ELEVATOR MACHINE ROOM SMOKE DETECTOR	X	X	X	X	X		X		
ELEVATOR MACHINE ROOM HEAT DETECTOR	X	X	X	X		X	X		
ELEVATOR SMOKE DETECTOR PIT	X	X	X	X			X		
ELEVATOR HEAT DETECTOR PIT	X	X	X	X		X	X		
ELEVATOR SMOKE DETECTOR TOP OF SHAFT	X	X	X	X	X		X		
ELEVATOR HEAT DETECTOR TOP OF SHAFT	X	X	X	X		X	X		
WATER FLOW SWITCH	X	X	X	X			X		
TAMPER SWITCH	X								X
STAND PIPE FLOW	X	X	X	X			X		
HIGH PRESSURE SWITCH	X								X
LOW PRESSURE SWITCH	X								X
FIRE SERVICE LINE - TAMPER	X								X
FIRE SERVICE LINE - WATER FLOW	X	X	X	X			X		
HEAT TRACE FAULT	X								X
GENERATOR RUN	X								X
GENERATOR FAULT	X								X
GROUND FAULT	X							X	
FIRE ALARM SYSTEM LOW BATTERY	X							X	
FIRE ALARM AC POWER FAILURE	X							X	
OPEN CIRCUIT	X							X	
SHORT CIRCUIT	X							X	

MEPFPT Engineer:



WSP USA Buildings Inc.
1300 N 17TH ST, SUITE 1000
ARLINGTON VA, 22209
(703) 362-2800
wsp.com

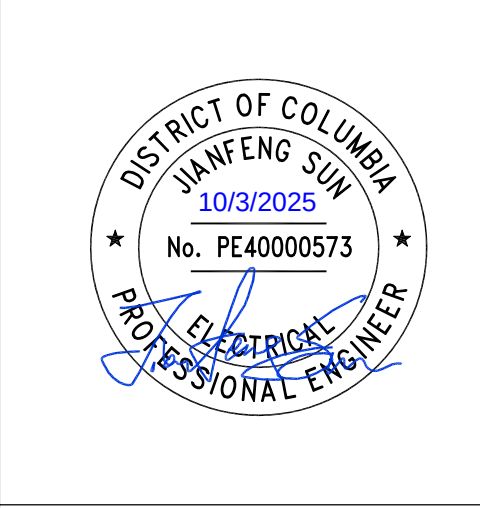
Architect:

Structural Engineer:

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER
SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL
BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTORS
RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND
CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY
VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

	PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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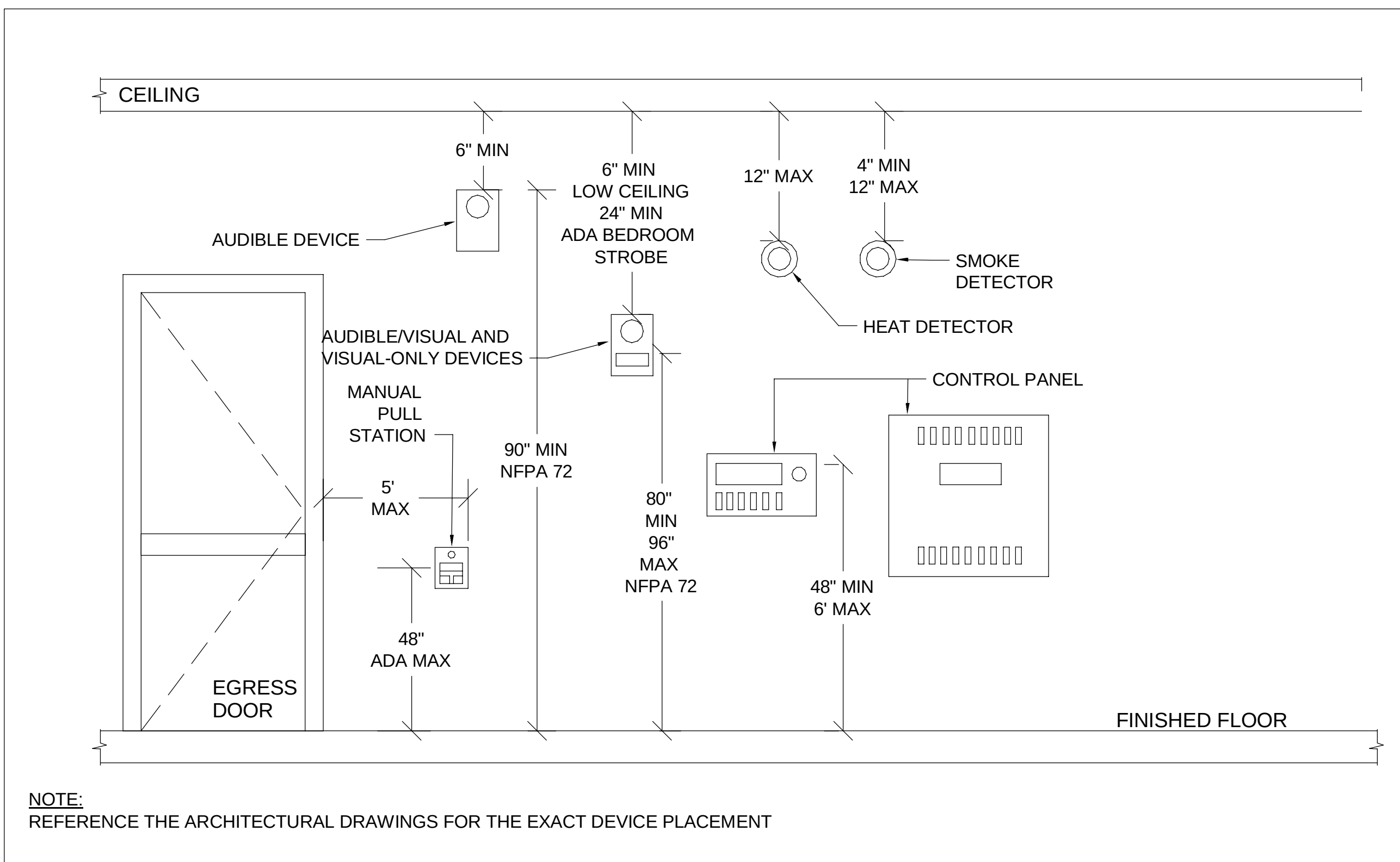


PROJECT
**PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE**

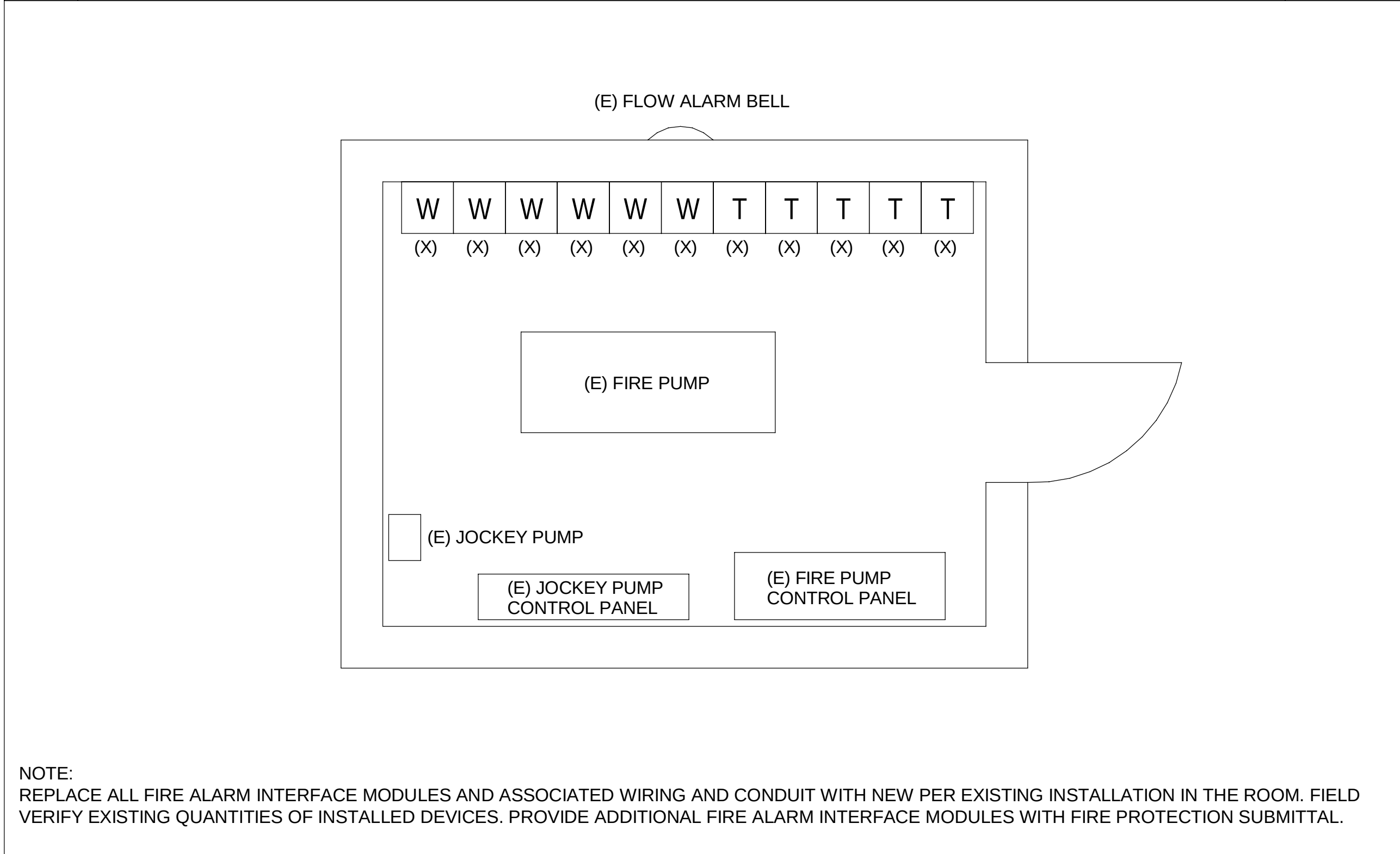
OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
**FIRE ALARM - SYSTEM
MATRIX**

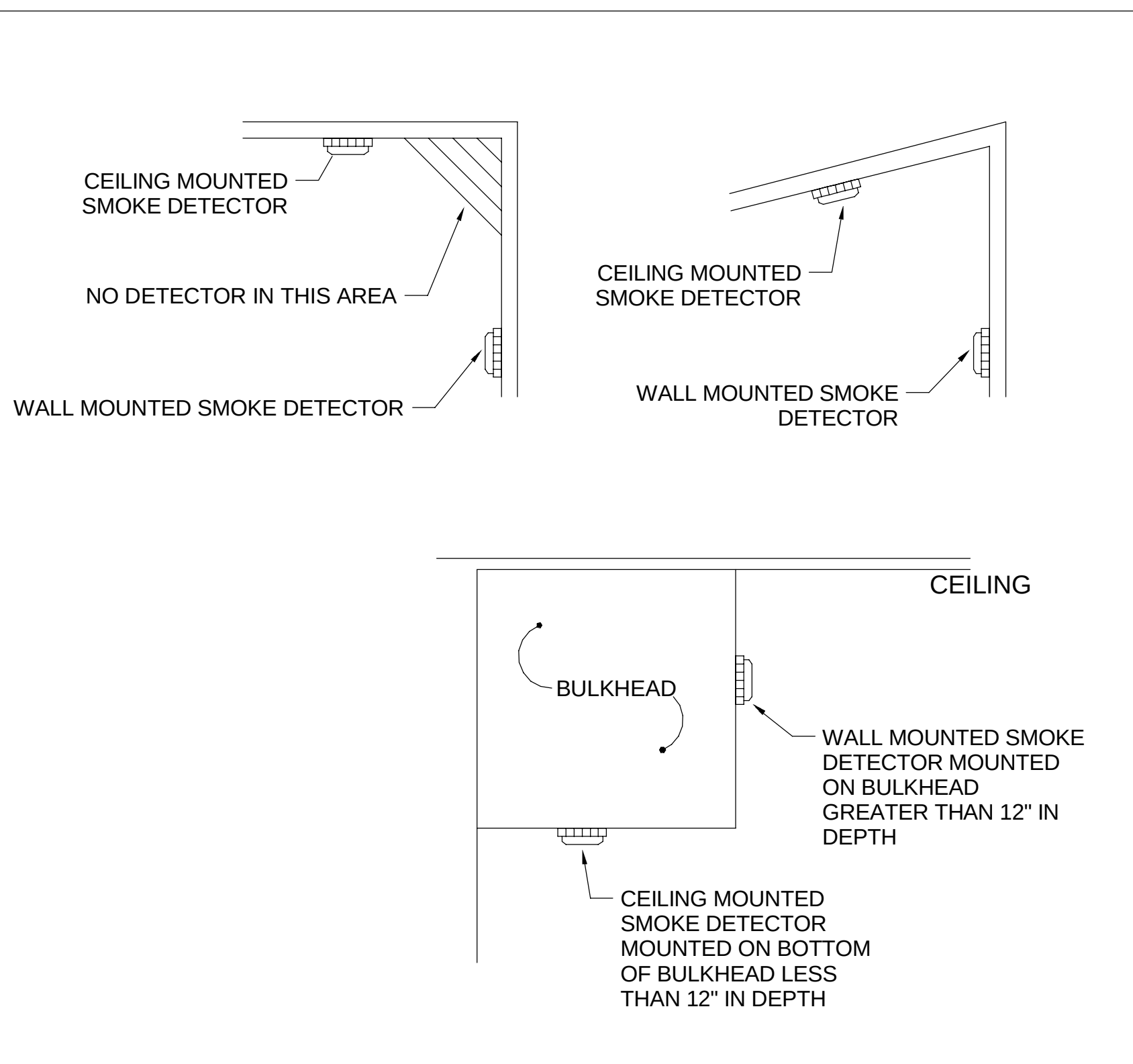
PROJECT NO.:	US-WSP-192801E	FA5.03-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	12" = 1'-0"	



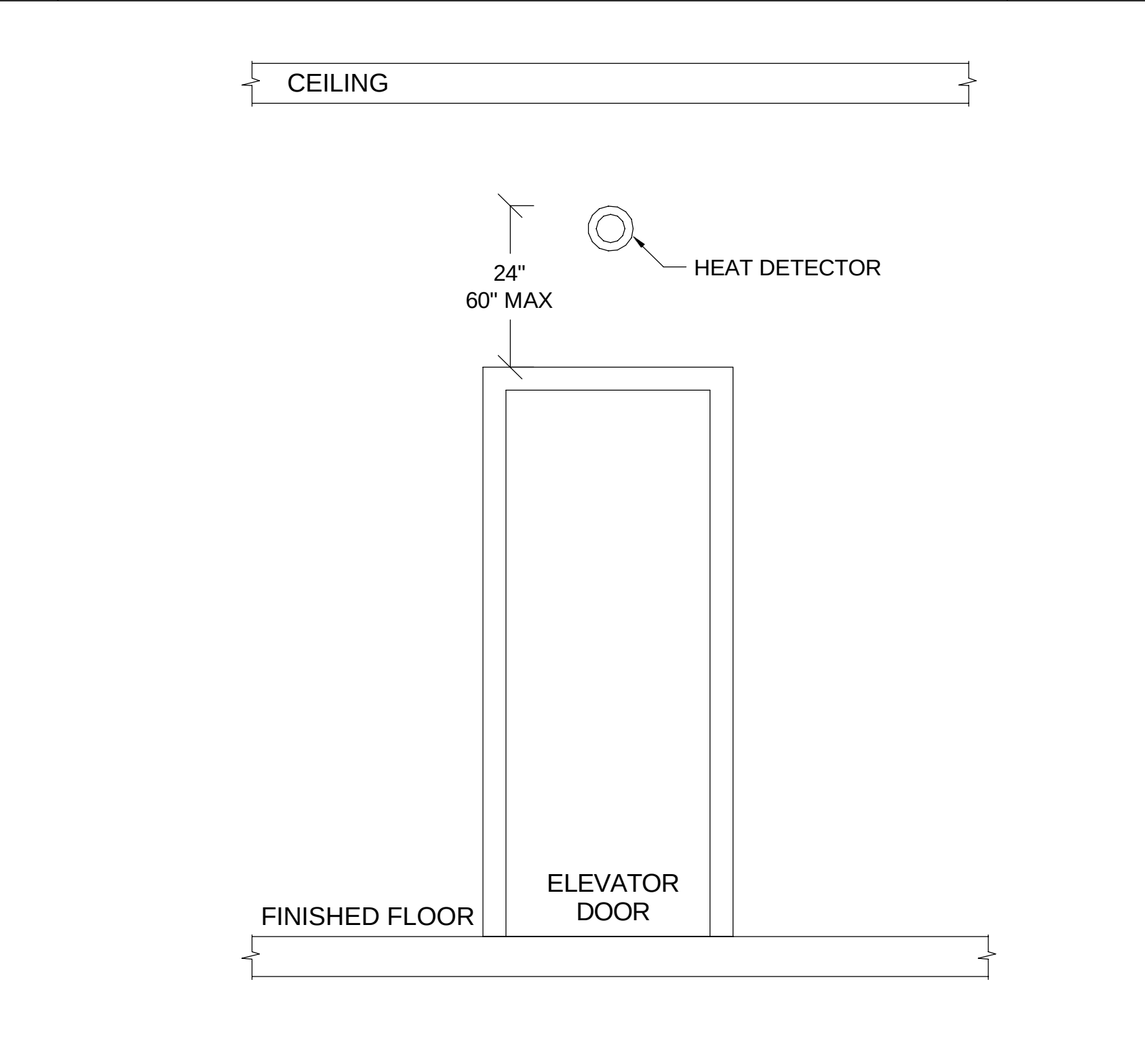
1 FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL SCALE: NONE



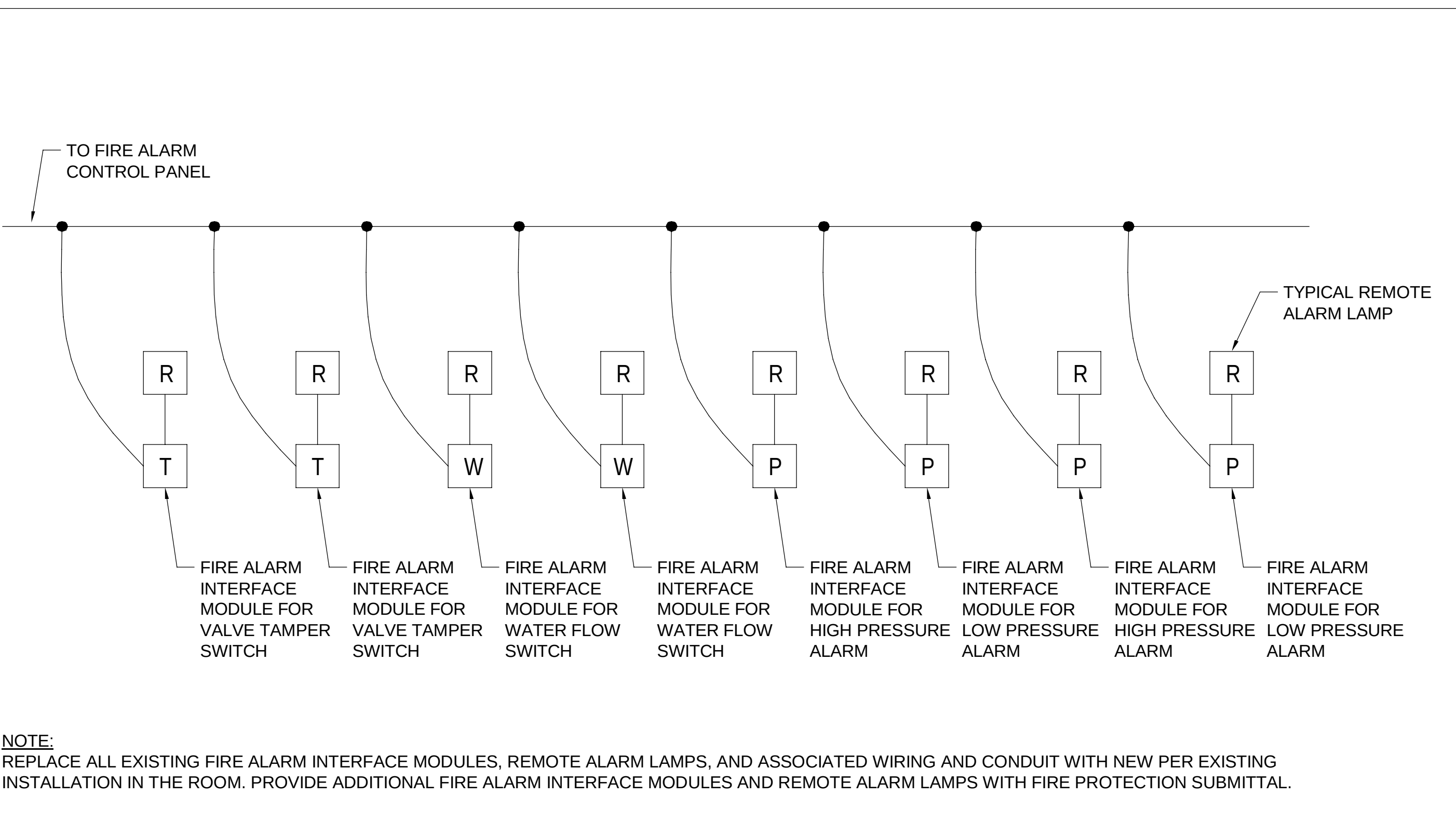
4 EXISTING FIRE PUMP ROOM (UNDER H STREET BRIDGE) SCALE: NONE



2 FIRE ALARM SMOKE/CO DETECTOR MOUNTING SCALE: NONE



5 BUS DECK LEVEL ELEVATOR LOBBY WITH CEILING HEIGHT GREATER THAN 15'-0" SCALE: NONE

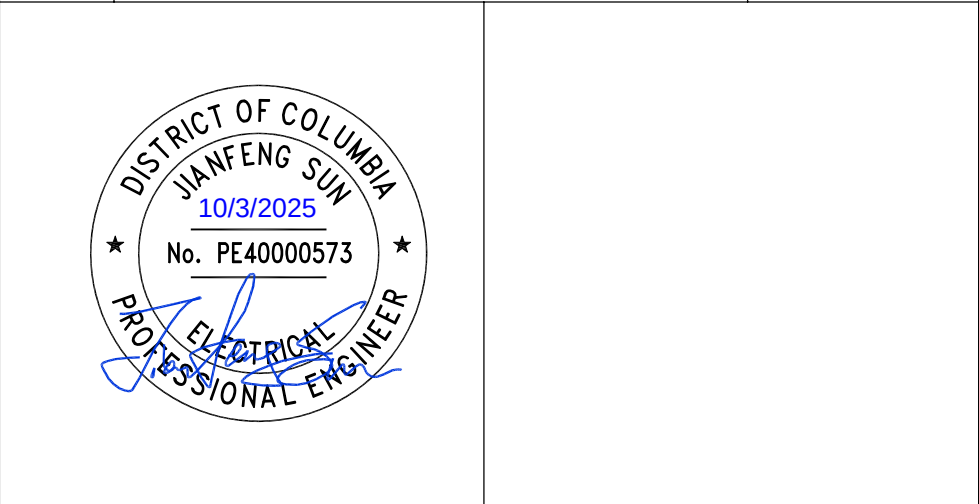


3 TYPICAL EXISTING DRY PIPE SPRINKLER VALVE ROOM SCALE: NONE

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
FIRE ALARM - DETAILS

PROJECT NO.:	US-WSP-192801E	FA7.00-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:	12" = 1'-0"	

10/20/2025 4:20:05 PM AutoSave Doss\WP20-PM Support Services-GenRm-RS-CSP\PM Support Services-Generator Room\WSP_MP_2025.rvt

SECTION 26 05 01	
ELECTRICAL GENERAL PROVISIONS	
PART 1 - GENERAL	
1.1 DESCRIPTION	A. The General and Supplementary Conditions and other Divisions are a part of the requirements for the work under this Division of the Specifications.
B. It is the intent of these Specifications to provide complete systems. Completeness shall mean that all materials, equipment, and systems as installed and operating on this project have been installed properly or in strict accordance with the trade, are suitable for the intended purpose, location, and environment; properly fit within the physical space limitations for the project; are in conformance with applicable codes and reference standards; have been checked, tested, adjusted, and commissioned for the intended use; have maintained applicable UL Listings; are in compliance with manufacturer's recommendations and warranty requirements; ready for the Owner's use, and in the opinion of the Engineer, performing as designed.	
1.2 WORK INCLUDED	A. Provide labor and materials required to install, test and place into operation the electrical systems as called for in the Contract Documents, in accordance with applicable codes and regulations and in accordance with the equipment manufacturers written directions.
B. Provide labor, materials, and accessories required to provide complete, operating electrical systems. Labor, materials, or accessories not specifically called for in the Contract Documents, but required to provide complete, operating electrical systems shall be provided without additional cost.	
1.3 QUALITY ASSURANCE	A. Comply with the current applicable codes, ordinances, and regulations of the Authority or Authorities Having Jurisdiction, the rules, regulations, and requirements of the utility companies serving the project, and the Owner's insurance underwriter.
B. Drawings, specifications, codes and standards are minimum installation requirements. Where requirements differ, the most stringent apply.	
C. Should any change in drawings or specifications be required to comply with governing regulations, notify the Engineer prior to submitting bid.	
D. All electrical equipment, materials, devices, and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, NEC, NEMA, NETA, NFPA, OSHA, SMACNA and UL.	
E. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workperson-like manner by competent workpeople. Provide a competent, experienced, full-time Superintendent who is authorized to make decisions on behalf of the Contractor.	

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 1

Stamp	Interpretation
☐ No Exceptions Noted	Fabrication, manufacture, or construction may proceed providing submittal complies with the Contract Documents.
☐ Exceptions Noted: Resubmit for Record	Fabrication, manufacture, or construction may proceed providing submittal complies with both the Contract Documents and the Engineer's notations. Resubmit revised submittal for record only.
☐ Exceptions Noted: No Resubmission Required	Fabrication, manufacture, or construction may proceed providing submittal complies with both the Contract Documents and the Engineer's notations.
☐ Revise and Resubmit	Submittal does not comply with the Contract Documents. Do not proceed with fabrication, manufacture, or construction. The work and/or shop drawings are not permitted at the job site.
☐ For Review Only	Informational Submittal: Submittal does not require the Engineer's responsive action.

- K. Submit materials and equipment by manufacturer, trade name, and model number. Include copies of brochures, literature, and literature. Maintenance and operating manuals are not acceptable substitutes for shop drawings.
- L. Identify each sheet of printed submittal pages (using arrows, highlighting, underlining or circling) to show applicable sizes, types, model numbers, ratings, capacities and options actually being proposed. Cross out non-applicable information. Note specified features such as materials or paint finishes. Cross out all references to "options". Cross out statements such as "subject to change without notice" or "not for construction". Do not specify excluded information is assumed to be included. Submittals that do not clearly indicate excluded information will not be reviewed and will be returned marked "Revise and Resubmit".
- M. Include dimensional data for roughing in and installation and technical data sufficient to verify that equipment meets the requirements of the Contract Documents. Include wiring, conduit routing and service connection data.
- N. Maintain a complete set of reviewed and stamped shop drawings and product data on site.
- O. For each room or area of the building containing electrical equipment, submit the following:
1. Floor Plans: Plan and elevation layout drawings indicating the equipment in the exact location in which it is intended to be installed. These plans shall be of a scale not less than 1/4 inch to 1 foot. They shall be prepared in the following manner:

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 6

F. Equipment shall be certified for use in the District of Columbia and shall meet the local energy code.	
1.4 ABBREVIATIONS AND DEFINITIONS	A. Abbreviations:
1. ADA Americans with Disabilities Act	
2. ANSI American National Standards Institute	
3. ASA Acoustical Society of America	
4. ASTM American Society of Testing and Materials	
5. BIL Basic Impulse Level	
6. CBIM Certified Ballast Manufacturers	
7. ECO Engineer's Control Center	
8. EIA Electronic Industries Alliance	
9. ETL Electrical Testing Laboratories, Inc.	
10. FCC Fire Control Center	
11. FIM Fire Incident Mutual	
12. IEEE Institute of Electrical and Electronic Engineers	
13. IES Illuminating Engineering Society	
14. IES International Power Cable Engineers Association	
15. LED Light Emitting Diode	
16. NEC National Electrical Code	
17. NEMA National Electrical Manufacturers Association	
18. NETA National Electrical Testing Association	
19. NFPA National Fire Protection Association	
20. OSHA Occupational Safety and Health Administration	
21. OSHA Occupational Safety and Health Administration	
22. SCOA Security Control Center	
23. SMACNA Sheet Metal and Air Conditioning Contractors National Association	
24. TIA Telecommunications Industry Association	
25. UL Underwriters Laboratories Inc.	
B. Definitions:	
1. Where it is stated in these specifications to submit to the Engineer for review, refer to General and Supplementary Conditions for proper procedures.	
2. FURNISH means to supply all materials, labor, equipment, testing apparatus, controls, tests, accessories, and all other items customarily required for the proper and complete application.	
3. INSTALL means to join, unite, fasten, link, attach, set up or otherwise connect together before testing and turning over to Owner, complete and ready for regular operation.	
4. PROVIDE means to FURNISH AND INSTALL.	
5. AS DIRECTED means as directed by the Engineer, or the Engineer's Representative.	
6. CONCEALED means embedded in masonry or other construction, installed behind wall furring or within drywall partitions, or installed above suspended ceilings.	
7. SUBMIT means submit to Engineer for review.	

1.5 GUARANTEE

A. Submit a single guarantee stating that the work is in accordance with the Contract Documents. Guarantee work against faulty and improper material and workmanship for a

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 2

- a. Indicate the physical boundaries of the space including door swings and ceiling heights and ceiling types (as applicable).
- b. Illustrate all electrical equipment proposed to be contained therein. Include top and bottom elevations of all electrical equipment. The Drawings shall be prepared utilizing the dimensions contained in the individual equipment submittals. Indicate code and manufacturer's required clearances and access points.
- c. Illustrate all other equipment therein such as conduits, detectors, luminaires, ducts, registers, pull boxes, wireways, structural elements, etc.
- d. Indicate the operating weight of each piece of equipment.
- e. Indicate the heat release from each piece of electrical equipment in terms of BTU per hour. This information shall be that which is supplied by the respective manufacturers.
- f. Illustrate concrete housekeeping pads and curbs.
- g. Indicate dimensions to confirm compliance with code-required clearances.
- h. Indicate maximum normal allowable operating temperature for each piece of equipment (as per each respective manufacturer's recommendation).
- i. Equipment removal routes.
2. Provide 1/2" x 1'-0" plans of point-to-point routing of conduits with size and function between switchboards, transformers, panelboards, distribution boards, transfer switches, maintenance panels, generator control cabinets etc. All conduit 2" in diameter and greater shall be indicated in the model.
- P. The work described in shop drawing submissions shall be carefully checked by all trades for clearances (including those required for maintenance and servicing), field conditions, maintenance of engineering conditions and coordination with other trades on the job. Each submitted shop drawing shall include a certification that related job conditions have been checked by the Contractor and each Subcontractor and that conflicts do not exist.
- Q. The Contractor is not relieved of the responsibility for dimensions or errors that may be contained on submissions, or for deviations from the requirements of the Contract Documents. The noting of some errors but overlooking others does not negate the Contractor permission to proceed in error.
- R. Inadequate or incomplete shop drawings, product data and/or samples will not be reviewed and will be returned to the Contractor marked "Revise and Resubmit" for resubmission.
- S. Indicate the following on the lower right-hand corner of each shop drawing and on the front cover of each product data brochure cover: The submittal identification number, title of the sheet or brochure, name and address of the project, names of the Engineer, Engineer, Contractor, Subcontractor, manufacturer, supplier, and vendor; the date of submittal; and the date of each correction, version and revision. Number all pages and drawings in product data brochures consecutively from beginning to end. Unless the above information is included, the submittal will be returned for resubmission. Resubmittals of product data or brochures shall include a cover letter summarizing the corrections made in response to the review comments.

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 7

period of one year from the date of final acceptance by the Owner, except that where guarantees or warranties for longer terms are provided or specified herein, the longer term shall apply. Contact any deficiencies, which occur during the guarantee period, within 24 hours of notification, without additional cost. Obtain similar guarantees from subcontractors, manufacturers, suppliers and sub-trade specialists.

- 1.6 USE OF THE ENGINEER'S AND ENGINEER'S DRAWINGS
- A. The Contractor shall obtain from the Engineer a set of 30 BIM or compatible format engineering drawings on electronic media where desired by the Contractor and/or required by the Specifications for use in preparing the shop drawings, coordination drawings, and record drawings. The Contractor shall provide to the Engineer a written or electronic release of liability acceptable to the Engineer prior to receiving the electronic media.

PART 2 - PRODUCTS

- 2.1 EQUIPMENT AND MATERIALS
- A. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.
- B. Products and materials shall not contain lead, asbestos, PCBs, or any other material that is considered hazardous by the Environmental Protection Agency or any other Authority Having Jurisdiction.
- C. Replace materials of less than specified quality and relocate work incorrectly installed as directed by the Engineer at no additional cost.
- D. Provide name / data plates on major components of equipment with manufacturer's name, model number, serial number, capacity data and electrical characteristics attached in a conspicuous place.
- E. Install materials and equipment with qualified trades people.
- F. Maintain uniformity of manufacturer for equipment used in similar applications and sizes.
- G. Fully lubricate equipment where required.
- H. Follow manufacturer's instructions for installing, connecting, and adjusting equipment. Provide a copy of such instructions at the equipment during installation.
- I. Where factory testing of equipment is required to ascertain performance, and attendance by the Owner's Representative is required to witness such tests, associated travel costs and substance shall be paid for by the Contractor.
- J. Equipment capacities, ratings, etc., are scheduled or specified for job site operating conditions. Equipment relative to attitude shall be detailed with the method of detailing identified on the submittals.
- K. Enclosures for electrical equipment installed indoors in mechanical or electrical equipment rooms shall be NEMA type 1. Enclosures for electrical equipment installed outdoors shall be NEMA type 3R - gasketed or as specified on the drawings.

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 3

- 3.3 COORDINATION OF WORK
- A. The Contract Documents establish scope, materials and quality but are not detailed installation instructions. Drawings are diagrammatic.
- B. Coordinate work with related trades and furnish, in writing, any information necessary to permit the work of related trades to be installed satisfactorily and with the least possible conflict or delay.
- C. The electrical drawings show the general arrangement of equipment and appearances. Follow these drawings as closely as the actual construction and the work of other trades will permit. Provide offsets, fittings, and accessories, which may be required but not shown on the Drawings. Investigate the site, note construction conditions, wall materials, ceiling heights and review drawings of other trades to determine conditions affecting the work and provide such work and accessories as may be required to accommodate such conditions. Additional costs as a result of the failure to investigate the site will not be paid.
- D. The locations of receptacles, outlets, panels and other equipment indicated on the Drawings are approximately correct, but they are understood to be subject to such revision as may be found necessary or desirable at the time the work is installed in consequence of increase or reduction of the number of outlets, or in order to meet field conditions, or to coordinate with modular requirements of ceilings, or to simplify the work, or for other legitimate causes.
- E. Exercise particular caution with reference to the location of panels, receptacles, outlets, switches, fire alarm devices, and have precise and definite locations accepted by the Engineer before proceeding with the installation.
- F. The Drawings show only the general run of large raceways and approximate locations of receptacles and outlets. Any significant changes in location of receptacles and outlets, cabinets, etc., necessary in order to meet field conditions shall be brought to the immediate attention of the Engineer for review before such alterations are made. Modifications shall be made at no additional cost.
- G. Verify with the Engineer the exact location and mounting height of outlets and equipment not dimensionally located on the Drawings prior to installation.
- H. Circuit tags in the form of numbers are used where shown to indicate the circuit designation numbers shown the actual circuit numbers on the panelboard. Record Drawings and on the associated typed panelboard directory card. Where circuiting is not indicated, provide required circuiting in accordance with the loading indicated on the Drawings and/or as directed.
- I. The Drawings generally do not indicate the quantity of wires in conduit for the branch circuit wiring of futures and outlets, or the actual circuiting. Provide the correct conduit size and quantity as required by the trade for the conduit routing and/or circuit numbers indicated, the control interval, referenced wiring diagrams (if any), the specified voltage drop or maximum distance limitations, and the applicable requirements of the NEC.
- J. Carefully check space requirements with other trades to ensure that equipment can be installed in the spaces allotted.
- K. Whenever work interconnects with work of other trades, coordinate with other trades to ensure that they have the information necessary so that they may properly install the

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 8

- 3.8 CLEANING UP
- A. Avoid accumulation of debris, boxes, loose materials, crates, etc., resulting from the installation of this work. Remove from the premises each day all debris, boxes, etc., and keep the premises clean and free of dust and debris.
- B. All electrical equipment shall be thoroughly vacuumed and wiped clean prior to energizing and at the completion of the project. Equipment shall be opened for observation by the Engineer as required.
- 3.9 WATERPROOFING
- A. Avoid, if possible, the penetration of any waterproof membranes such as roofs, machine room floors, basement walls, and the like. If such penetration is necessary, make penetration prior to the waterproofing and furnish all sleeves or pipe-pockets required. Advise the Engineer and obtain written permission before penetrating any waterproof membrane, even where such penetration is shown on the Drawings.
- B. Restore waterproofing integrity of walls or surfaces after they have been penetrated without additional cost.
- 3.10 SUPPORTS
- A. Support work in accordance with the best industry practice. Provide supports, hangers, auxiliary structural members and supplemental hardware required for support of the work.
- B. Provide supporting frames or racks extending from floor slab to ceiling slab for work indicated as being supported from walls where the walls are incapable of supporting the weight. In particular, provide such frames or racks in electric closets and mechanical equipment rooms.
- C. Provide supporting frames or racks for equipment which is to be installed in a freestanding position.
- D. Supporting frames or racks shall be of standard angle, standard channel or specialty support system steel members, rigidly bolted or welded together and adequately braced to form a substantial structure. Racks shall be of ample size to assure a workmanlike arrangement of all equipment mounted on them.
- E. Adequate support of equipment (including outlet, pull and junction boxes and fittings) shall not depend on electric conduits, raceways, or cables for support.
- F. Electrical equipment or raceway shall not rest on or depend for support on suspended ceiling media (tiles, lath, plaster, as well as squares, runners, bars and the like in the plane of the ceiling). Provide independent support of electrical equipment. Do not attach to supports provided for ductwork, piping or work of other trades.
- G. Provide required supports and hangers for conduit, equipment, etc., so that loading will not exceed allowable loadings of structure. Electrical equipment and supports shall not come in contact with work of other trades.
- 3.11 FASTENINGS
- A. Fasten equipment to building structure in accordance with the best industry practice.

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 12

L. Energy consuming equipment shall be certified for use in the District of Columbia and shall meet the local energy code and local energy ordinances.

- 2.2 SUBSTITUTIONS
- A. Contract Documents are based on equipment manufacturers as called out in the Specifications and indicated on the Drawings. Contract documents include a basis of design in which the design is reflected. Other manufacturers listed in the specification are acceptable if the equipment fits in the designated area without altering the engineering design and meets other clauses in the specifications. Acceptance of substitute equipment manufacturers does not relieve Contractor of the responsibility to provide equipment and materials, which meet the performance as, stated or implied in the Contract Documents.
- B. Submit proposals for review and approval to provide substitute materials or equipment, in writing, fifteen business days prior to submission of bid. Substituted materials or equipment received after that time will not be acceptable or reviewed. Reimburse Owner for costs associated with the review of the proposed substitution whether substitution is accepted or rejected.
- C. Indicate revisions required to adapt substitutions including revisions by other trades. Substitutions that increase the cost of the work and related trades are not permitted or shall be paid for by the contractor.
- D. The proposed substitution shall conform to the size, ratings, and operating characteristics of the equipment or systems as specified and shown on the Drawings. The substitution must fit into available space conditions and must function properly in coordination with the rest of the system.
- E. Proposals for substitutions shall include the following information:
1. A description of the difference between the Contract Document requirements and that of the substitution, the comparative features of each, and the effect of the change on the end result performance. Include the impact of all changes on other contractors and acknowledge the inclusion of additional costs to the other trades.
 2. Schematic drawings and details.
 3. List of revisions to the Contract Documents that must be made if the substitution is accepted.
 4. Estimate of added or reduced costs the Contractor may incur in implementing the substitution, such as test, evaluation, operating and support costs.
 5. Statement of the time by which a Contract modification accepting the substitution must be issued, noting any effect on the Contract completion time or the delivery schedule.
 6. Statement indicating the reduction to the Contract price if the Owner accepts the substitution. Include required modifications to all related trades.

- 3.1 FEES AND PERMITS
- A. Pay all required fees and obtain all required permits related to the electrical installation.
- B. Pay royalties or fees in connection with the use of patented devices and systems.

PART 3 - EXECUTION

- 3.1 FEES AND PERMITS
- A. Pay all required fees and obtain all required permits related to the electrical installation.
- B. Pay royalties or fees in connection with the use of patented devices and systems.

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 4

- necessary connections and equipment. Identify pull boxes requiring access in order that the ceiling trades will know where to install access doors and panels.
- L. Consult with other trades regarding equipment so that, wherever possible, motor controls and distribution equipment are of the same manufacturer.
- M. Furnish and set sleeves for passage of electrical risers through structural masonry and concrete walls and floors and elsewhere as required for the proper protection of each electrical riser passing through building surfaces.
- N. Provide freestanding matching the wall or partition rating on all pipes, conduits, ducts, sleeves, etc., which pass through rated walls, partitions and floors.
- O. Provide detailed information on openings and holes required in precast members for electrical work.
- P. Provide required supports and hangers for conduit and equipment, designed so as not to exceed allowable loadings of structures.
- Q. Examine and compare the Contract Documents with the drawings and specifications of other trades and report any discrepancies between them to the Engineer and obtain written instructions for changes necessary in the work. Install and coordinate the work in cooperation with other related trades. Before installation, make proper provisions to avoid interferences.
- R. Wherever the work is of sufficient complexity, prepare additional detail drawings to scale to coordinate the work with the work of other trades. Detailed work shall be clearly identified on the Drawings as to the area to which it applies. Submit these drawings to the Engineer for review. At completion include a set of these drawings with each set of Record Drawings.
- S. Furnish services of an experienced Superintendent, who shall be in constant charge of all work, and who shall coordinate with the work of other trades. No work shall be installed before coordinating with other trades.
- T. Before commencing work, examine adjoining work on which this work is in any way relying and report any deficiencies to the Engineer. Submit these drawings to the Engineer for review. At completion include a set of these drawings with each set of Record Drawings.
- U. Adjust location of conduits, panels, equipment, etc., to accommodate the work to prevent interferences, both anticipated and encountered. Determine the exact route and location of each conduit prior to fabrication.
1. Right-of-Way: Lines which pitch have the right-of-way over those which do not pitch. For example: condensate, steam, and plumbing drains normally have right-of-way. Lines whose elevations cannot be changed have right-of-way over lines whose elevations can be changed.
 2. Provide offsets, transitions and changes in direction of conduit as required to maintain proper headroom and pitch on sloping lines.
- V. In cases of doubt as to the work intended, or in the event of need for explanation, request supplementary instructions from the Engineer.

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- B. Cable tags shall be flameproof secured with flameproof non-metallic cord.
- C. Provide an engraved nameplate for each switch controlling loads, which are not local to the switch.
- D. Wherever raceways for future use are terminated outside of the building, stake the location with a 8-foot long, 4-inch clear pressure treated post a minimum of 4 below grade and 4' above grade.
- E. See individual Sections for additional identification requirements.
- 3.13 PROHIBITED LABELS AND IDENTIFICATIONS
- A. In all public areas, tenant areas, and similar locations within the project, the inclusion or installation of any equipment or assembly which bears on any exposed surface any name, trademark, or other insignia which is intended to identify the manufacturer, the vendor, or (other source(s) from which such object has been obtained, is prohibited, unless otherwise approved by the Engineer.
- B. Required UL labels shall not be removed nor shall identification specifically required under the various technical sections of the Specifications be removed.
- 3.14 EQUIPMENT PADS AND ANCHOR BOLTS
- A. Provide concrete pads under all floor-mounted electrical equipment. Equipment pads shall conform to the shape of the piece of equipment it serves with a minimum 1-inch margin around the equipment and supports. Pads shall be a minimum of 4 inches high and made of a minimum 28 day, 2500 psi concrete reinforced with 6-inch by 6-inch E66 grade welded wire mesh. Trowel tops and sides of pad to smooth finishes, equal to those of the floors, with all external corners bulged to a 3/4-inch radius. Seal concrete pads where not painted. Paint pads same as surrounding floor areas. Shop drawings stamped "NO EXCEPTIONS NOTED" shall be used for dimensional guidance in sizing pads.
- B. Provide galvanized anchor bolts for all equipment placed on concrete equipment pads, metal blocks, or on concrete slabs. Provide bolts of the size and number recommended by the manufacturer. Equipment and equipment pads shall be secured by means of suitable templates. Equipment installed on vibration isolators shall be secured to the isolation. Secure the isolator to the floor, pad, or support as recommended by the vibration isolation manufacturer.
- C. Where equipment is mounted on gypsum board partitions, the mounting screws shall pass through the gypsum board and securely attach to the partition studs. As an alternative, the mounting screws may pass through the gypsum board and be securely attached to 1/2 inches square, 18 gauge galvanized metal backplates, which are attached to the gypsum board or glass-on type nameplates are prohibited.
- D. Nameplates for equipment connected to the normal power system shall be black with white lettering.
- E. Nameplates for equipment connected to the emergency power system shall be red with white lettering.
- F. Nameplates for equipment connected to the UPS system shall be orange with white lettering.
- G. Equipment labels to indicate voltage, conductor phasing color code and power source (fed from information

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 14

C. Provide controlled inspection where required by Authorities Having Jurisdiction or by these specifications.

- 3.2 SUBMITTALS AND REVIEWS
- A. Submit shop drawings, manufacturer's product data sheets, samples, and test reports as specified.
- B. Submit a complete typed list of all electrical equipment manufacturers and material suppliers for the equipment proposed to be provided on this project, as well as names of all subcontractors and suppliers.
- C. Prepare an index of all submittals for the project. Include a submittal identification number, a cross-reference to the Specification sections or Drawing number, and an item description. Precede the submittal identification number by the Specification section to which they apply. Indicate on each submittal the submittal identification number in addition to the code designated. All subcontractors shall utilize the assigned submittal identification number.
- D. After the Contract is awarded, obtain complete shop drawings, product data and samples from the manufacturers, suppliers, vendors, and all subcontractors, for all materials and equipment as specified in the Specifications. Submit data and details of such materials and equipment for review. Prior to submission, certify that the shop drawings, product data and samples are in compliance with the Contract Documents. Include as part of the Shop Drawing the specification section. Provide a compliance / non-compliance specification attached to the front of every submittal. Identify each paragraph stating the submittal complies with the specification or does not comply. For every statement of non-compliance, include clear language as to the reason for the non-compliance and the submitted provisions that are intended to operate in its place. Submittals without the required compliance / non-compliance specification attached will not be reviewed and will be returned "Revise and Resubmit". Check all materials and equipment upon their arrival on the job site and verify their compliance with the Contract Documents. Modify any work, which proceeds prior to receiving accepted shop drawings as required to comply with the Contract Documents and the shop drawings.
- E. Non applicable items in the specifications shall be clearly stricken out. Applicable items shall be clearly highlighted. Submittals lacking the clarity of stricken or highlighted information shall be returned marked Revise and Resubmit.
- F. Review of submittals is for general compliance with the design concept and Contract Documents. Review of submittals is not a warranty of the Contractor's compliance with the specifications. The Contractor remains solely responsible for details and accuracy, for conforming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of construction, for performing the work in a safe manner, and for coordinating the work with that of other trades.
- G. No part of the work shall be started in the shop or in the field until the shop drawings and samples for that portion of the work have been submitted, reviewed and accepted with either "No Exceptions Noted" or "Exceptions Noted" marked on the submittation.
- H. A minimum period of ten working days, exclusive of transit time, will be required in the Engineer's office each time a shop drawing, product data and/or samples are submitted for review. This period must be considered by the Contractor in the scheduling of the work.

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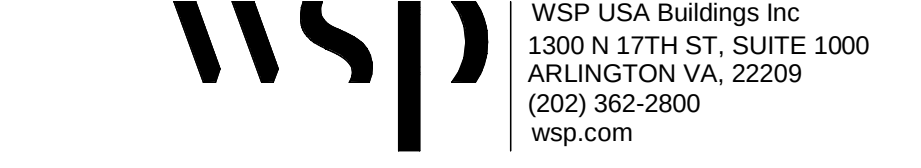
- W. Reflected Ceiling Plans: ceiling plans, sections, and other necessary details showing all concealed lighting for equipment located in or on the ceiling plane. Base dimensions on exact dimensioned data obtained from product submittals for products to be included in the work. Differentiate between field measurements and assumed dimensions. Include the following items coordinated with each other, based on input from installers of the items involved:
1. Suspended ceiling components.
 2. Structural members.
 3. Fire Alarm initiating and indicating devices.
- 3.4 CONTRACTOR'S COORDINATION DRAWINGS
- A. The Contractor shall coordinate efforts of all trades and shall provide (in writing, with copies to the Engineer) any information necessary to permit the work of all trades to be installed satisfactorily and with the least possible interference or delay.
- B. The Contractor and all trade contractors shall prepare a complete set of construction Coordination Drawings indicating the equipment actually purchased and the exact routing for all lines such as conduit, piping, ductwork, etc. The Coordination Drawings shall be submitted complete to the Engineer, in compliance with the construction schedule for the project. The sheet metal drawings, at a scale of not less than 1/4 inch to 1 foot, shall serve as the base drawings to which all other Contractors shall add their work. Each separate trade contractor shall draw their work on separate layers or worksets with different color assignments to facilitate coordination. Each Coordination Drawing shall be completed and signed off by the other Trade Contractors and the Contractor prior to the installation of the mechanical, plumbing, electrical and fire protection and sprinkler work in the area covered by the specific drawing. The Contractor's work shall be installed according to the shop drawings and coordination drawings. If the Contractor allows one trade to install their work before coordination with the work of other trades, the Contractor shall make all necessary changes to correct the condition at no additional cost.
- C. The Contractors' Coordination Drawings shall indicate structural loads at support points for all piping 10 inch and larger, racked piping, racked conduit, busway, and suspended electrical equipment. Submit to Structural Engineer for review and approval. The elevation, location, and weight of loads, static, dynamic and expansion forces and loads imposed on the structure at support and anchor points shall be indicated. All beam penetrations and slab penetrations shall be indicated and shall be coordinated with the Engineer. Work routed underground or embedded in concrete shall be indicated by dimension to column and building lines and shall be coordinated. Coordination Drawings shall document all required structural penetrations for initial construction. Penetrations shall be dimensioned for walls, floors and roofs. These structural coordination requirements require review and approval by the Structural Engineer prior to completion and submittal of the Drawings.
- D. This requirement for Coordination Drawings shall not be construed as authorization for the Contractor or trade contractors to make any unauthorized changes to the Contract Documents. Contract document space allocations shall be maintained such as ceiling height, designated clearance for future construction and flexibility, chase walls, equipment room size, unless prior written authorization is received from the Engineer to change them.
- E. Prior to final acceptance of the work, the Contractor shall submit the Coordination Drawings as part of the Record Drawings submittal.

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 10

- B. If equipment is not delivered or installed at the project site in a timely manner as required by the project construction schedule, the Contractor shall be responsible for rearing, disassembly, re-assembly, manufacturer's supervision, shipping, general construction modification, delays, overtime costs, etc., at no additional cost.
- 3.16 EQUIPMENT AND MATERIAL PROTECTION
- A. Protect the work, equipment, and material of other trades from damage by work or workmen of this trade, and correct damage caused without additional cost.
- B. Take responsibility for work, materials, and equipment until finally inspected, tested and accepted. Protect work against theft, injury, or damage, and carefully store material and equipment received on site, which is not immediately installed. Close open ends of work with temporary covers or plugs during construction to prevent entry of obstructing material. Cover and protect equipment and materials from damage due to water, spray-on freeproofing, construction debris, etc. Store equipment sensitive to moisture damage in dry, heated spaces.
- C. Provided adequate means for fully protecting finished parts of materials and equipment against damage from whatever cause during the progress of the work until final acceptance. Protect materials and equipment in storage and during construction in such a manner that no finished surfaces will be damaged or marred, and moving parts are kept clean and dry. Do not install damaged items; take immediate steps to obtain replacement or repair.
- D. Lighting fixture troffers with parabolic reflectors shall be installed with factory-mounted plastic protective bags around parabolic reflector assembly. Remove protective bag just prior to occupancy.
- 3.17 TESTING OF ELECTRICAL SYSTEMS
- A. Comply with the project construction schedule for the date of final performance and acceptance testing, and complete work sufficiently in advance of the Contract completion date to permit the execution of the testing prior to occupancy and Contract close-out. Complete any adjustments and corrections to the work, which will be tested, as early as necessary for the proper functioning of all equipment prior to the completion date. See individual Sections for extent of testing required.
- B. Provide a detailed schedule of completion indicating when each system is to be completed and outlining when field testing will be performed. Submit a final completion schedule for review within six months after the notice to proceed by Owner's Representative has been given. Update this schedule periodically as the project progresses.
- 3.18 OPERATING INSTRUCTIONS
- A. Provide the services of factory-trained specialists to provide an operating instructions seminar for equipment and systems. The seminar shall be conducted over a five-day (consecutive) period. Instruction time is deemed as straight time working hours and does not include nights, weekends, or travel time to and from the project. Owners has the right to record the seminars.
- B. Submit seminar agenda, schedule and list of representatives to the Engineer for approval 30 days prior to suggested date of seminar. Do not commence seminar until the

ELECTRICAL GENERAL PROVISIONS 26 05 01 - 15

MEPFPT Engineer:



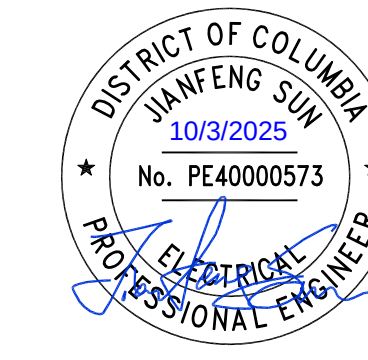
Architect:

Structural Engineer:

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THESE DRAWING SHALL BE COPIED FROM THE ORIGINAL BLUEPRINTS AND ARE APPROXIMATELY TO SCALE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN.

PERMIT / BID OCT 3, 2025

NO. REVISION DATE



PROJECT
PM SUPPORT
SERVICES
FIRE ALARM SYSTEM
UPGRADE
OWNER
UNION STATION
REDEVELOPMENT
CORPORATION
FIRE ALARM - SPECS

TITLE

PROJECT NO.: US-WP-192301E
DATE: 10/03/2025
DWN BY: Author
SCALE:
FA8.00-3
CKD BY: Checker

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				MEPFFT Engineer:		WSP WSP USA Buildings Inc. 1300 N 17TH ST, SUITE 1000 ARLINGTON VA, 22209 (202) 362-2800 wsp.com	
				Architect:			
				Structural Engineer:			

- H. Provide wireways above and/or below equipment cabinets to accommodate large concentrations of wiring. Conductors within equipment cabinets shall be carefully formed and harnessed.
- I. Connect fire management system equipment to emergency power system.
- J. Area smoke detectors shall be photoelectric type, unless otherwise specified or shown on the Drawings.
- K. Provide a 1-inch empty conduit from the FACP to the nearest telecom terminal backboard. Connect the fire alarm control panel communications modem to dedicated telephone lines per the requirements of the AHJ.
- L. Provide a 1-inch empty conduit from the FACP to the security system control panel.
- M. Provide a 2-inch empty conduit from the FCC to each elevator hoist way.
- N. Auxiliary relays connected to the fire management system used to initiate control of monitor status of fire safety functions shall be located within 3 feet of the controlled circuit or device. The wiring between the fire management system and the auxiliary relay shall be supervised.
- O. Provide additional alarm and annunciation devices as required by the AHJ within the spare device allowances noted. Include conduit, wire and testing as part of this scope of work.
- 3.2 SPARE PARTS LIST
- A. Provide the following spare parts:
- 5 visual alarms
 - 5 speakers
 - 5 combination audible / visual alarms
 - 5 surface mounted smoke detectors
 - 5 duct mounted smoke detectors
 - 5 remote alarm / key test switch
 - 2 manual pull stations
 - 2 heat detectors
- 3.3 DEVICE MOUNTING
- A. Unless otherwise noted on the Drawings, plans, specifications, manufacturer's recommendations, or by the AHJ, the recommended mounting heights and requirements are as follows.
- Control Panel:
 - Fire Alarm control panel and remote panels and their components shall be mounted so that no part of the enclosing cabinet is less than 12 inches or more than 78 inches above the finished floor. All manually operable controls shall be at least three feet and less than five feet above the finished floor. Panel shall be installed to comply with the requirements of UL 864. The LCD display for the control panel shall be mounted at centerline 5 feet-6 inches above the finished floor.

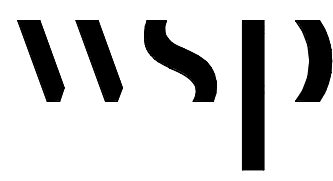
FIRE MANAGEMENT SYSTEM 28 30 00 - 12

2. Detectors:
- Detectors shall be mounted on the ceiling not less than 4 inches from the side wall to the rear edge, or if side wall, between 4 inches and 12 inches down from the ceiling to the top of the detector.
 - Smoke detectors shall be located at least three feet from supply or return air diffusers.
 - Smoke detector shall be mounted at the highest point on the ceiling.
3. Visual Signal Appliances:
- Visual signal appliances shall be wall-mounted at 80 inches [2030 millimeters] above the finished floor or 6 inches [152 millimeters] below the ceiling, whichever is lower. For purposes of installation, the bottom of the visual portion or lens of the fixture shall be used for mounting reference.
 - Visual signal appliances may be installed on the ceiling, but must be listed for ceiling mount. Ceiling-mounted appliances shall be in accordance with the requirements of NFPA 72.
4. Audible Signal Appliances:
- Where ceiling heights permit, wall-mounted appliances shall have their tops at 90 inches above the finished floor or 6 inches below the ceiling.
5. Combination Audible and Visual Signal Appliances:
- The location of audible/visual signal appliances shall comply with visual signal appliance mounting requirements.
 - Ceiling-mounted appliances shall be in accordance with the requirements of NFPA 72.
6. End of Line (EOL) Resistors shall be mounted in accessible areas. Mounting of EOL resistors in tenant spaces not accessible to the landlord shall not be allowed. In these cases, mount the end of line resistor in a cabinet in the local electrical room.
7. Speakers, strobes, manual pull stations shall be surface-mounted. All surface-mounted devices shall be smooth sided, without knockouts and painted white (red). Use of standard electrical boxes for surface-mounted equipment is prohibited.
8. Non-addressable monitor modules and control modules shall be securely mounted in back boxes or mounted on rails within a larger enclosure. The use of wire nuts to make connections to these modules is strictly prohibited.
- B. Device Spacing:
- Provide one heat detector within 2'-0" of each sprinkler head in all elevator machine rooms.
- 3.4 FIELD TESTING
- A. All testing must be in accordance with current NFPA 72 standards and requirements. Refer to PART 3 for additional testing requirements.
- FIRE MANAGEMENT SYSTEM 28 30 00 - 13

- B. Wiring shall be inspected and tested for continuity and short circuits.
- C. Field Test Reports shall include at minimum the following:
- Certification that equipment has been properly installed and is in satisfactory operating condition.
 - Sensitivity settings for smoke detectors.
 - Detailed operational test report in matrix form indicating each initiating device, each signaling device, each communication device, and each control and indicating light on each piece of equipment. Report shall certify the following:
 - Successful operation of each alarm and supervisory initiating device.
 - Successful operation of each signaling device.
 - Successful operation of automatic smoke control sequences.
 - Successful operation of FACP.
 - Successful operation of FARA.
 - Successful operation of FARPs.
 - Successful operation of FCIP.
 - Successful operation of FTS.
 - Successful operation of VCS.
 - Successful operation of elevator recall sequence.
 - Successful operation of kitchen hood exhaust equipment connections.
 - Successful operation of fire supervision devices.
 - Successful operation of off-site alarm monitoring system connection.
 - Successful release of electric door locking hardware and magnetic door holders.
- 3.5 TEST/FIELD QUALITY CONTROL
- A. A complete system pre-test shall be performed by the installing contractors before the final system acceptance test. All deficiencies shall be corrected. Upon successful completion of the pre-test, a complete pre-test report shall be submitted to the Owner's Representative to document that the fire alarm system is operating properly, along with an NFPA 72, Fire Alarm System Record of Completion document. These documents shall be received before scheduling a final test with the fire department representative or designated testing AHJ.
- B. The final alarm acceptance test shall be coordinated with the Owner's Representative, and the local Fire Department representative or testing authority. A letter certifying that the installation is complete and fully operational shall be forwarded to the Owner's Representative.
- C. Before final acceptance of the project can be made, the Contractor must submit from NFPA 72, the Fire Alarm System Record of Completion, signed by a factory-certified technician, certifying that the fire alarm system has been installed, tested and will function in accordance with the manufacturer's specifications and the Fire Marshal requirements. The installing contractor shall also issue a letter to the Owner's Representative indicating the fire alarm system has been installed and tested to operate according to the design drawings and specifications.
- 3.6 FUNCTIONAL TESTING
- A. Functional Testing - refer to 019113 for additional details.
- FIRE MANAGEMENT SYSTEM 28 30 00 - 14

FIRE MANAGEMENT SYSTEM 28 30 00 - 15

MEPFPT Engineer:



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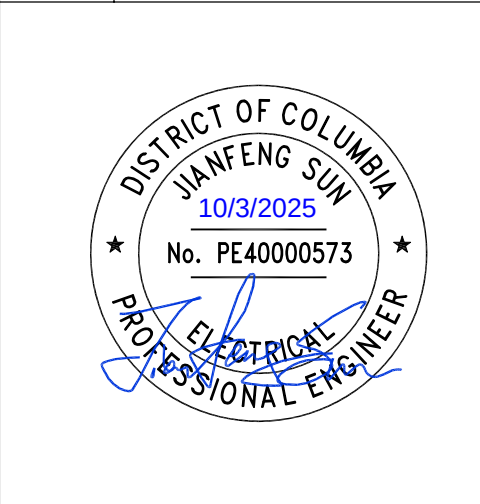
Architect:

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PERMIT / BID	OCT 3, 2025

NO.	REVISION	DATE
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PROJECT
**PM SUPPORT SERVICES
FIRE ALARM SYSTEM
UPGRADE**

OWNER
**UNION STATION
REDEVELOPMENT
CORPORATION**

TITLE
FIRE ALARM - SPECS

PROJECT NO.:	US-WSP-192801E	FA8.03-3
DATE:	10/03/2025	
DWN. BY: Author	CKD. BY: Checker	
SCALE:		