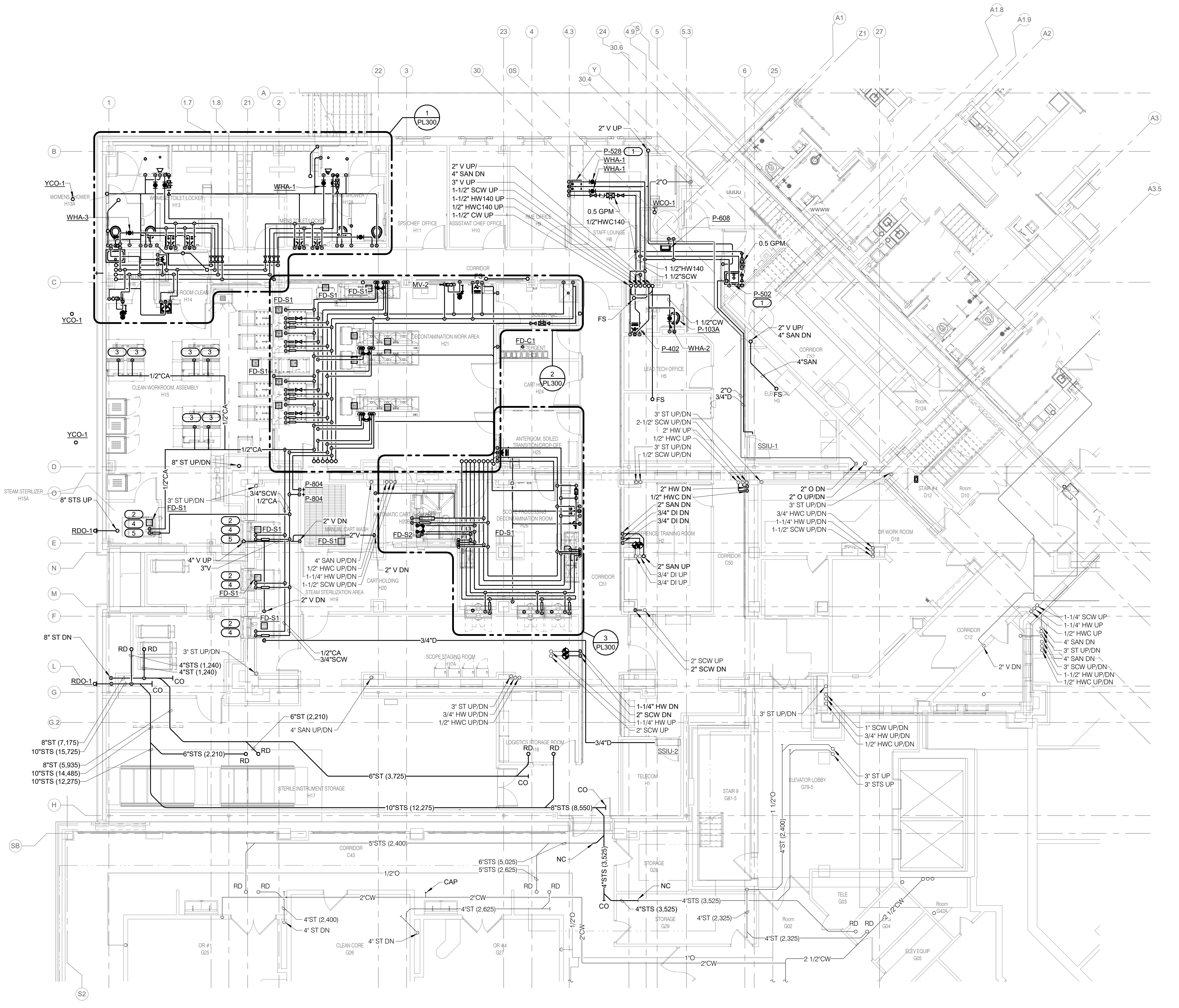


GENERAL PLUMBING NOTES:

1. REFERENCE P000 - PLUMBING COVERSHEET FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
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6. ALL PIPING, OF ANY KIND, ABOVE SOLID LID CEILINGS SHALL BE CONSTRUCTED OF AS FEW PIECES AS POSSIBLE AND SHALL ONLY UTILIZE WELDED OR SWEATED JOINTS AND CONNECTIONS.
7. REFERENCE PL500 FOR PLUMBING FLOW DIAGRAM.
8. REFERENCE PL600 FOR PLUMBING MATERIAL LIST.
9. REFERENCE 9PL400 FOR FIRE RATED FLOOR/WALL PENETRATION DETAIL.
10. REFERENCE 9PL400 FOR NON-FIRE RATED WALL PENETRATION DETAIL.

KEYNOTES: (#)

1. REFERENCE 4PL401 FOR FIXTURE HOT WATER ROUTING DETAIL.
2. REFERENCE 6PL401 FOR COMPRESSED AIR TERMINAL DETAIL.
3. REFERENCE 7PL401 FOR COMPRESSED AIR TERMINAL AT CEILING DETAIL.
4. REFERENCE 9PL401 FOR STERILIZER PIPING DETAIL.
5. STERILIZER WILL BE RELOCATED BY THE EQUIPMENT VENDOR FROM AN EXISTING LOCATION IN THE FACILITY TOWARDS THE END OF THIS PROJECT. ALL PIPING SHALL BE ROUGHED IN PRIOR TO RELOCATION TO MINIMIZE DOWNTIME OF THE EQUIPMENT. COORDINATE WITH C.O.R. FOR RELOCATION EFFORT.



GROUND LEVEL FLOOR PLAN - PLUMBING
1/8" = 1'-0"

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Revisions:	Date:

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Office of
 Construction
 and Facilities
 Management

VA U.S. Department
 of Veterans
 Affairs

Drawing Title
**GROUND LEVEL FLOOR PLAN -
 PLUMBING**

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 NATJAC

Drawn
 DELLE

Project Number
438-460

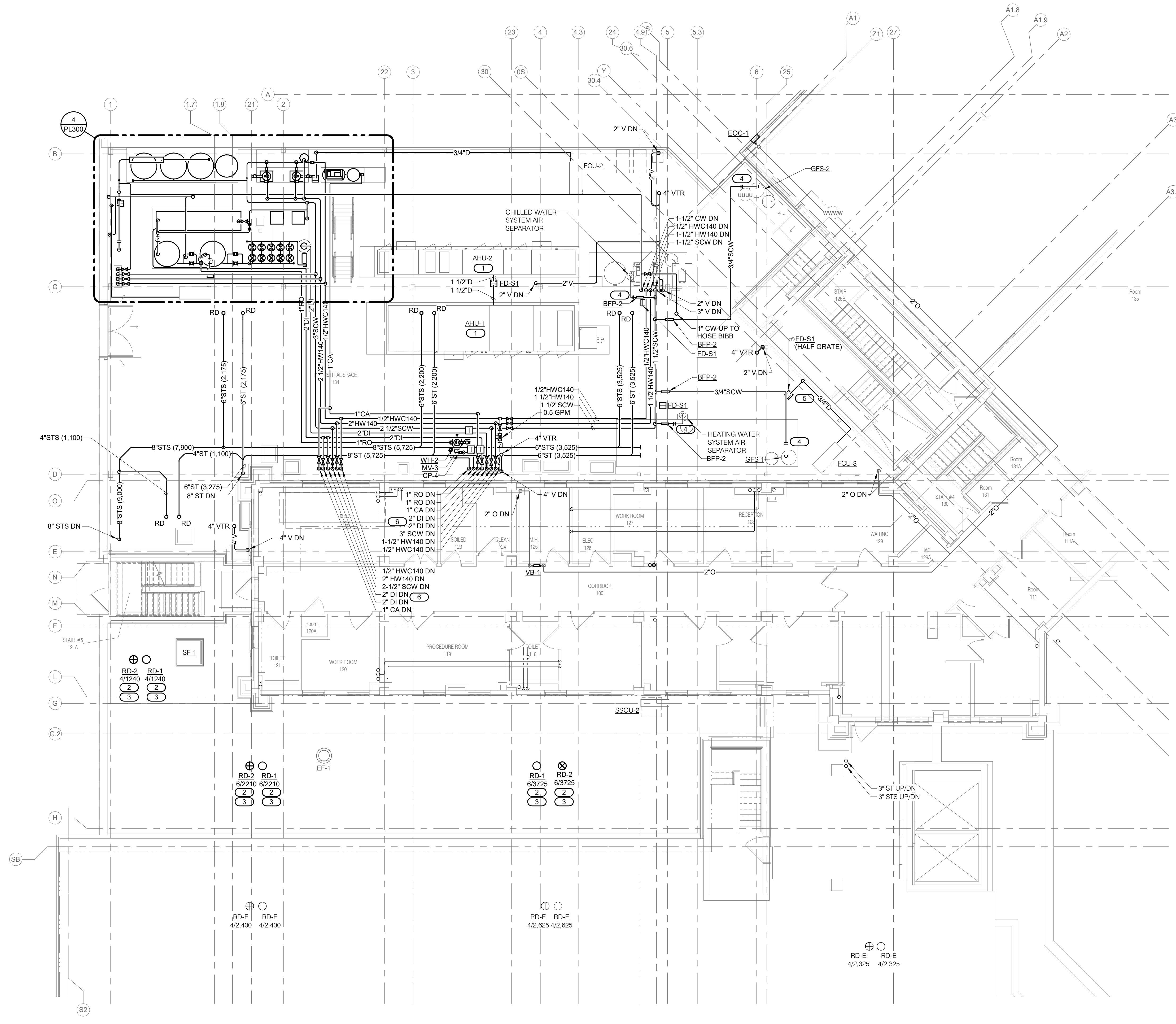
Building Number
5

Drawing Number
PL101

VA FORM 08 - 6231

1 2 3 4 5 6 7 8 9 10

- GENERAL PLUMBING NOTES:**
- REFERENCE P000 - PLUMBING COVERSHEET FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
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 - CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 - ALL PIPING, OF ANY KIND, ABOVE SOLID LID CEILINGS SHALL BE CONSTRUCTED OF AS FEW PIECES AS POSSIBLE AND SHALL ONLY UTILIZE WELDED OR SWEATED JOINTS AND CONNECTIONS.
 - REFERENCE PL500 FOR PLUMBING FLOW DIAGRAM.
 - REFERENCE PL600 FOR PLUMBING MATERIAL LIST.
 - ALL FLOOR PENETRATIONS THROUGH MECHANICAL ROOM FLOOR SHALL BE MADE WITH A 4" THICK WATER LEAK RESISTANT CONCRETE CURB INSTALLED BY THE GENERAL CONTRACTOR. CURBS DEPICTED ON THESE PLANS ARE GENERIC IN NATURE. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT SIZES AND LOCATIONS OF CURBS WITH GENERAL CONTRACTOR. WHERE FEASIBLE, CONCRETE FLOOR PENETRATIONS OF DUCTWORK, MECHANICAL PIPING, AND PLUMBING PIPING INTO COMBINED CURB/PENETRATION GROUPS.
 - REFERENCE 91PL400 FOR FIRE RATED FLOOR/WALL PENETRATION DETAIL.
 - REFERENCE 10PL400 FOR NON-FIRE RATED WALL PENETRATION DETAIL.
- KEYNOTES: (#)**
- PROVIDE COOLING EQUIPMENT WITH CONDENSATE DRAIN TRAP AND ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. REFERENCE 81PL400 FOR CONDENSATE TRAP DETAIL.
 - REFERENCE 61PL400 FOR ROOF DRAIN DETAIL.
 - PROVIDE HEAT TRACE AT ROOF DRAINS, ROOF DRAIN BASINS, AND THE FIRST 15' OF BOTH PRIMARY AND SECONDARY STORM PIPING INSIDE BUILDING. COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR.
 - DELIMITATION OF SCOPE BETWEEN PLUMBING CONTRACTOR (DARK) AND MECHANICAL CONTRACTOR (LIGHT), COORDINATE WITH MECHANICAL CONTRACTOR.
 - ROUTE CONDENSATE DRAIN TO FLOOR SINK. DISCHARGE THROUGH 45° ELBOW WITH 1" GAP BETWEEN ELBOW OUTLET AND FLOOR SINK RIM.
 - PROVIDE 3-VALVE ARRANGEMENT AT DI LOOP PRIOR TO PENETRATING INTERSTITIAL LEVEL FLOOR. 3-VALVE ARRANGEMENT SHALL CONSIST OF TWO NORMALLY OPEN VALVES DOWNSTREAM OF A LOOP BYPASS (SIZED SAME AS LOOP PIPING) WITH A NORMALLY CLOSED ISOLATION VALVE.



1 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PLUMBING
 1/8" = 1'-0"

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Revisions:	Date:

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PLUMBING

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 NATJAC

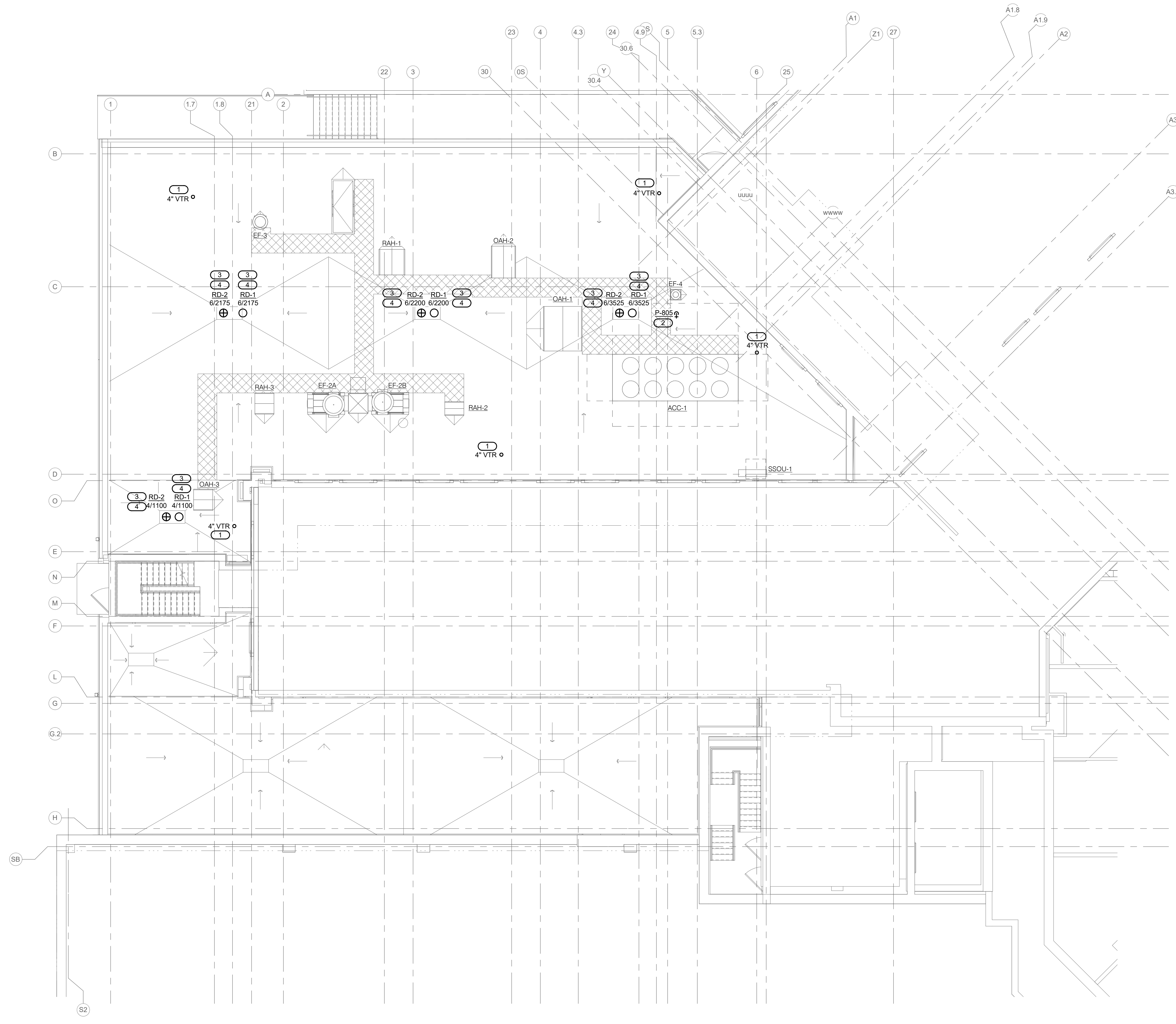
Drawn
 DELLE

Project Number
 438-460

Building Number
 5

Drawing Number
 PL111

- GENERAL PLUMBING NOTES:**
1. REFERENCE P000 - PLUMBING COVERSHEET FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
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 7. REFERENCE PL500 FOR PLUMBING FLOW DIAGRAM.
 8. REFERENCE PL600 FOR PLUMBING MATERIAL LIST.
- KEYNOTES: (#)**
1. REFERENCE 7/PL400 FOR VENT PIPE FLASHING DETAIL.
 2. REFERENCE 2/PL401 FOR ROOF HOSE BIBB DETAIL.
 3. REFERENCE 6/PL400 FOR ROOF DRAIN DETAIL.
 4. PROVIDE HEAT TRACE AT ROOF DRAINS, ROOF DRAIN BASINS, AND THE FIRST 15' OF BOTH PRIMARY AND SECONDARY STORM PIPING INSIDE BUILDING. COORDINATE EXACT LOCATION WITH ELECTRICAL CONTRACTOR.



1 ROOF PLAN - PLUMBING
1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ROOF PLAN - PLUMBING

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

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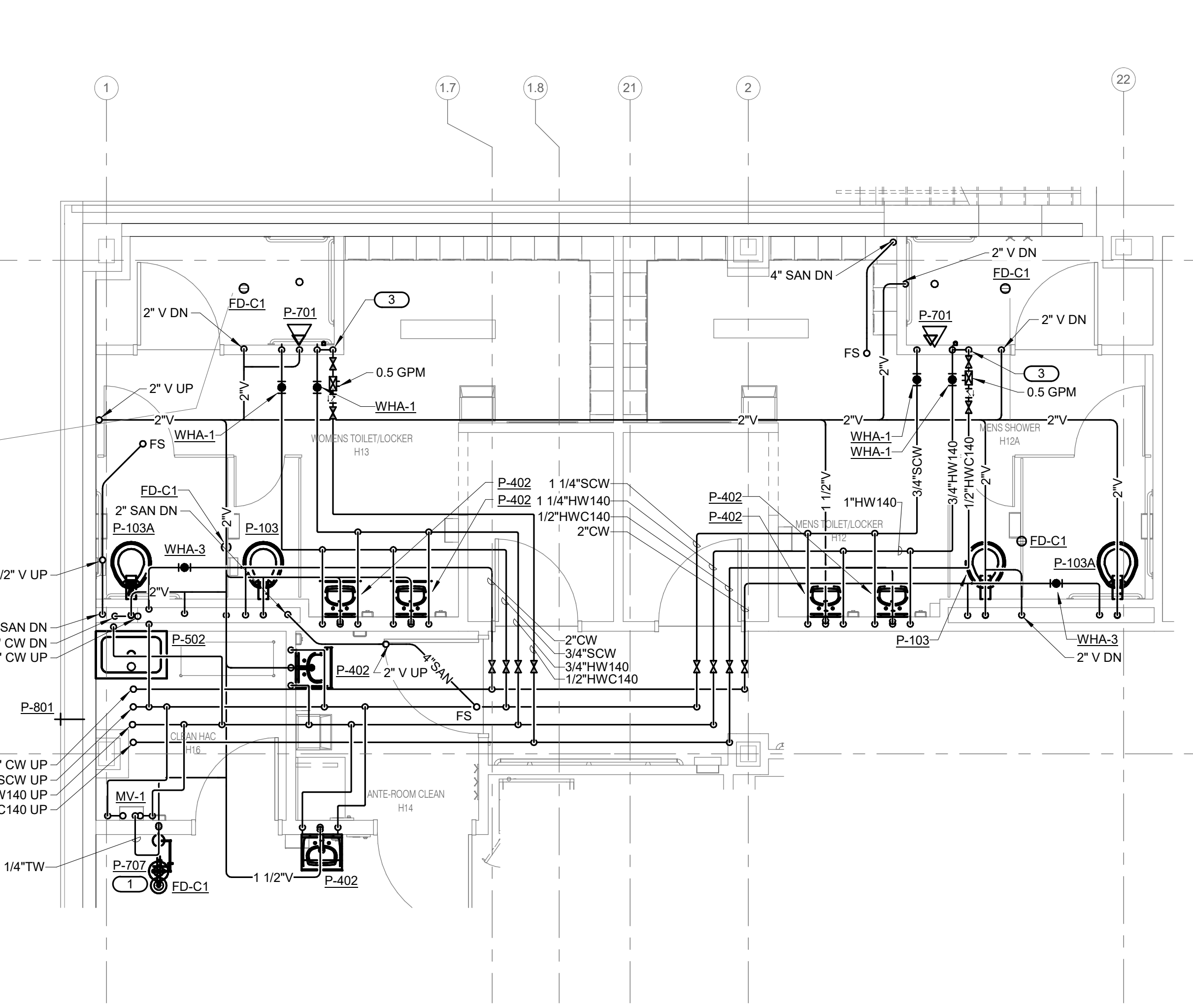
Drawn
DELLE

Project Number
438-460

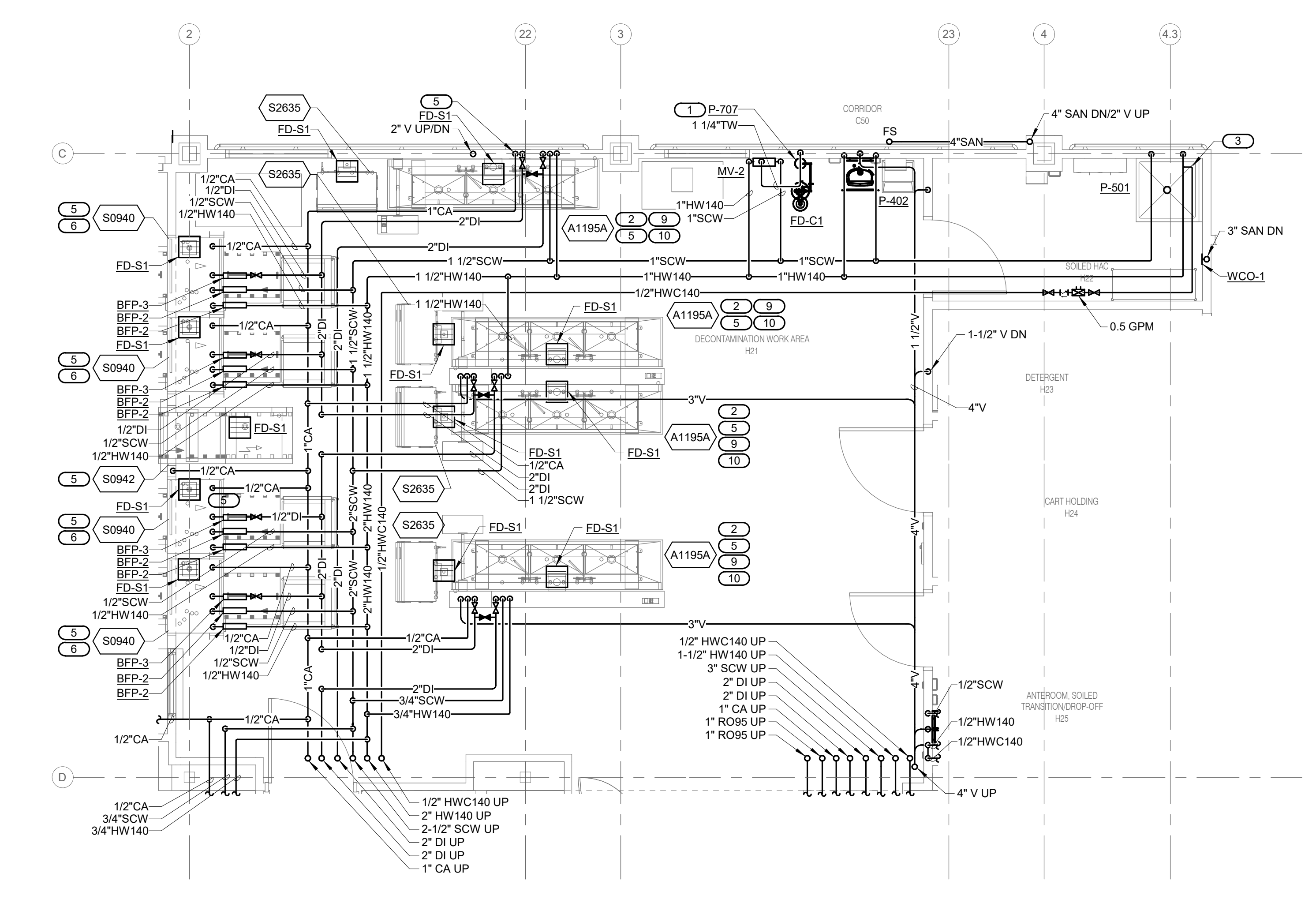
Building Number
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Drawing Number
PL121

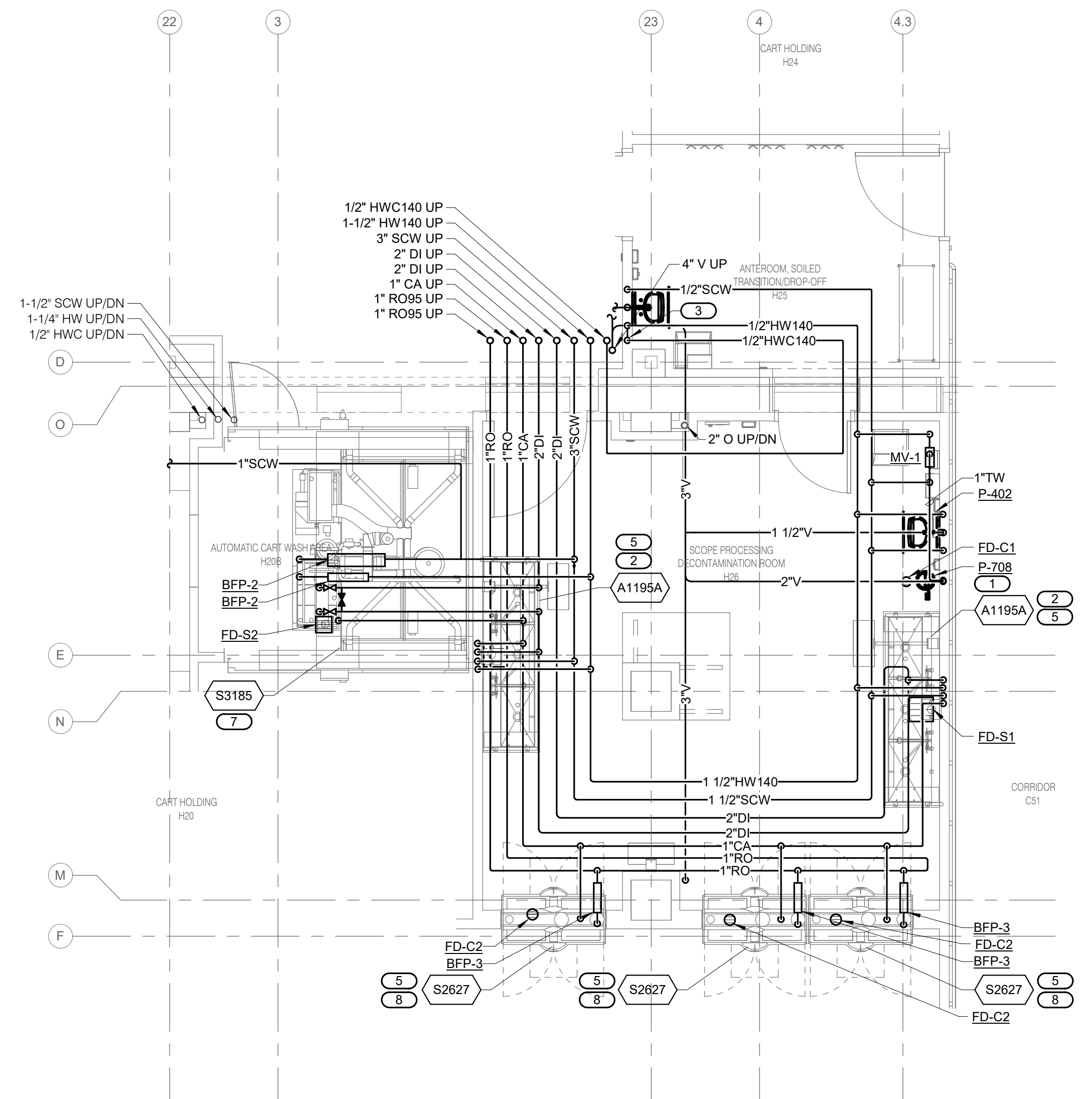
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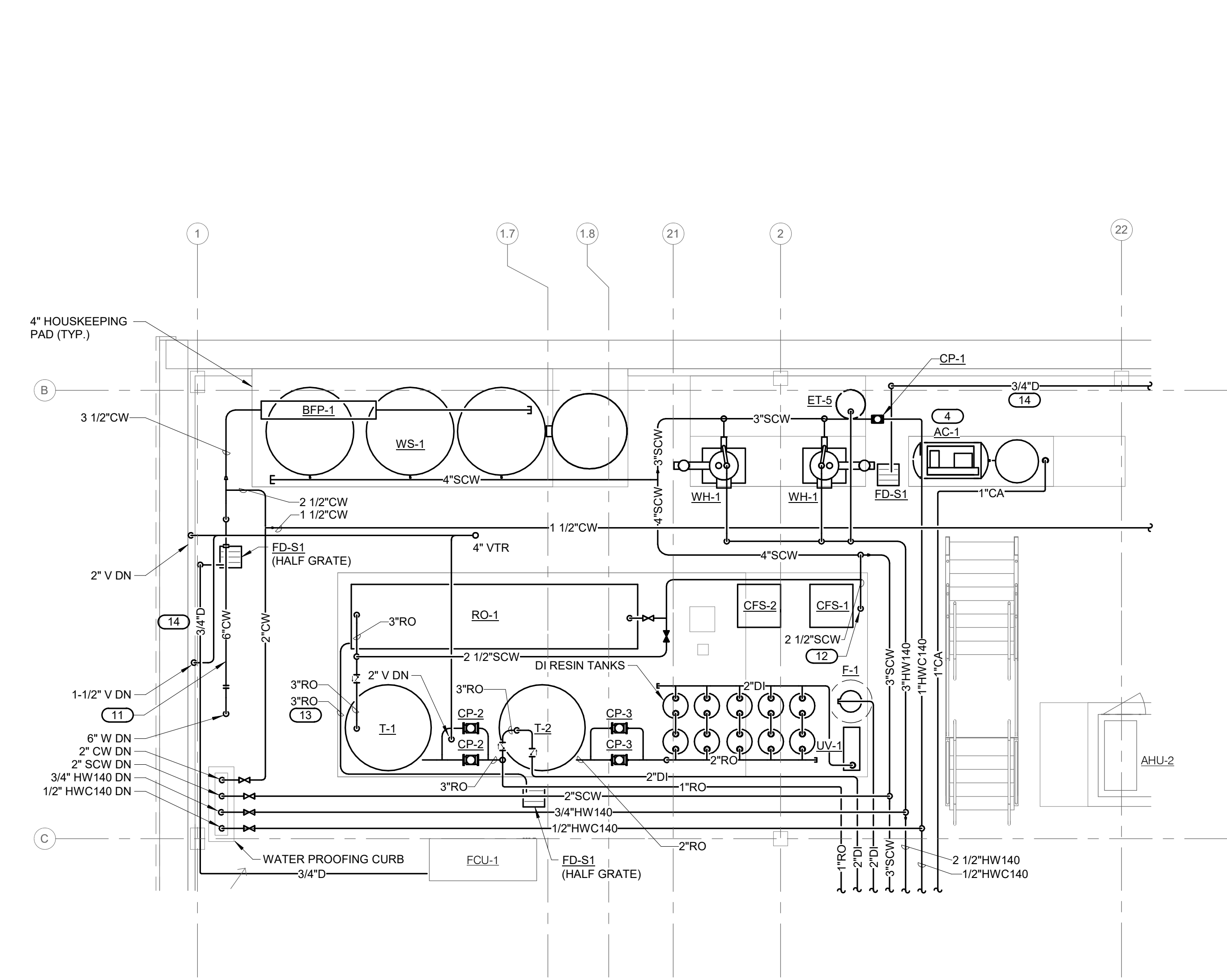
1 GROUND LEVEL FLOOR PLAN - PLUMBING - LOCKERS
1/4" = 1'-0"



2 GROUND LEVEL FLOOR PLAN - PLUMBING - DECONTAMINATION WORK AREA
1/4" = 1'-0"



3 GROUND LEVEL FLOOR PLAN - PLUMBING - SCOPE PROCESSING
1/4" = 1'-0"



4 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PLUMBING - WATER TREATMENT
1/4" = 1'-0"

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 - REFERENCE PL600 FOR PLUMBING MATERIAL LIST.
 - REFERENCE S/PL401 FOR FIRE RATED FLOOR/WALL PENETRATION DETAIL.
 - REFERENCE S/PL400 FOR NON-FIRE RATED WALL PENETRATION DETAIL.
- KEYNOTES: (#)**
- REFERENCE S/PL401 FOR EMERGENCY SHOWER & EYEWASH DETAIL.
 - REFERENCE S/PL401 FOR THREE COMPARTMENT SINK DETAIL.
 - REFERENCE S/PL401 FOR FIXTURE HOT WATER ROUTING DETAIL.
 - REFERENCE S/PL401 FOR COMPRESSOR AIR DRAIN DETAIL.
 - REFERENCE S/PL401 FOR COMPRESSED AIR TERMINAL DETAIL.
 - REFERENCE S/PL401 FOR WASHER DISINFECTOR PIPING DIAGRAM.
 - REFERENCE S/PL401 FOR CART WASH PIPING DETAIL.
 - REFERENCE S/PL401 FOR ENDOSCOPE REPROCESSOR PIPING DETAIL.
 - 3-BAY REPROCESSING SINKS ARE LOCATED ON PREDOMINATELY HALF-HEIGHT BACKWALLS. SANITARY VENT, COMPRESSED AIR, DEIONIZED WATER, SOFT COLD WATER, AND HOT WATER SERVING REPROCESSING SINKS SHALL BE ROUTED DOWN WEST SECTION OF BACKWALL WHICH IS FULL HEIGHT. COORDINATE PIPE ROUTING WITH POWER AND DATA CONDUIT PROVIDED BY ELECTRICAL AND TECHNOLOGY CONTRACTORS. REFERENCE ARCHITECTURAL SHEETS FOR DIMENSIONS OF BACKWALL. NOTIFY ARCHITECT/ENGINEER OF ANY REVISIONS TO WALL DIMENSIONS NECESSARY FOR ACCOMMODATING ALL UTILITIES.
 - CONTRACTOR SHALL LOCATE DI WATER THREE VALVE ARRANGEMENT IN VERTICAL RISERS AND PROVIDE ACCESS PANEL IN BACKWALL. VALVES AND PIPING ACCESSORIES SHALL NOT BE LOCATED ABOVE HARD LID CEILING. VALVES SHOWN FOR CLARITY ON THIS PLAN.
 - PROVIDE 6'-6" LENGTH OF PIPE SPOOL WITH BLIND FLANGE ENDS FOR FLEXIBILITY TO INSTALL FUTURE BACKFLOW PREVENTER.
 - 2-1/2" CW DN TO PURE WATER PRODUCTION EQUIPMENT. REFERENCE 3/PL500 FOR PURE WATER FLOW DIAGRAM.
 - 3" RO BACKWASH DRAIN PIPED ALONG FLOOR FROM RO TRAIN TO FLOOR SINK. DISCHARGE OVER FLOOR SINK THROUGH 90° ELBOW WITH 1" AIR GAP ABOVE FLOOR SINK RIM.
 - ROUTE CONDENSATE DRAIN TO FLOOR SINK. DISCHARGE THROUGH 45° ELBOW WITH 1" GAP BETWEEN ELBOW OUTLET AND FLOOR SINK RIM.

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Professional Engineer
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
PLUMBING ENLARGED PLANS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

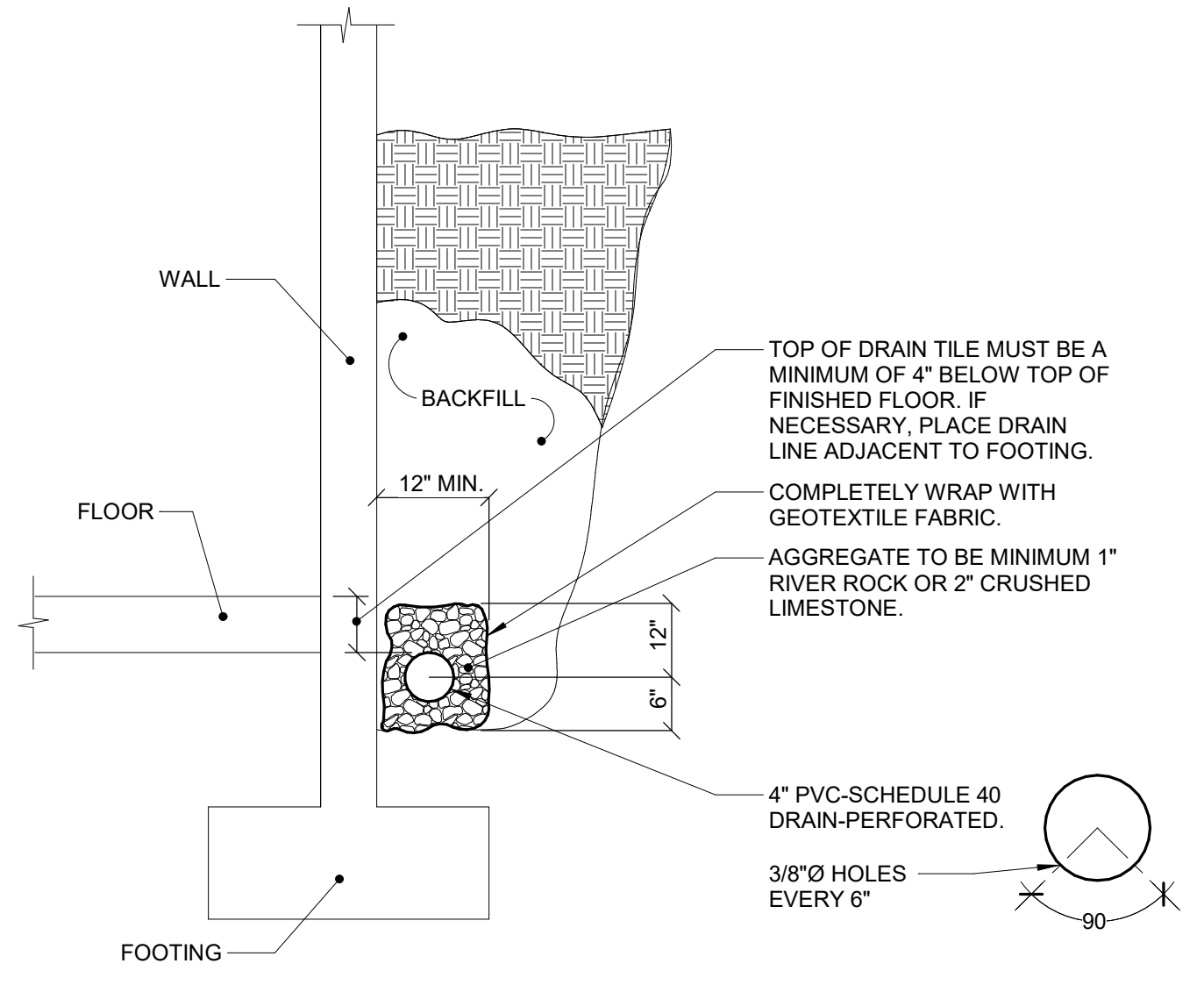
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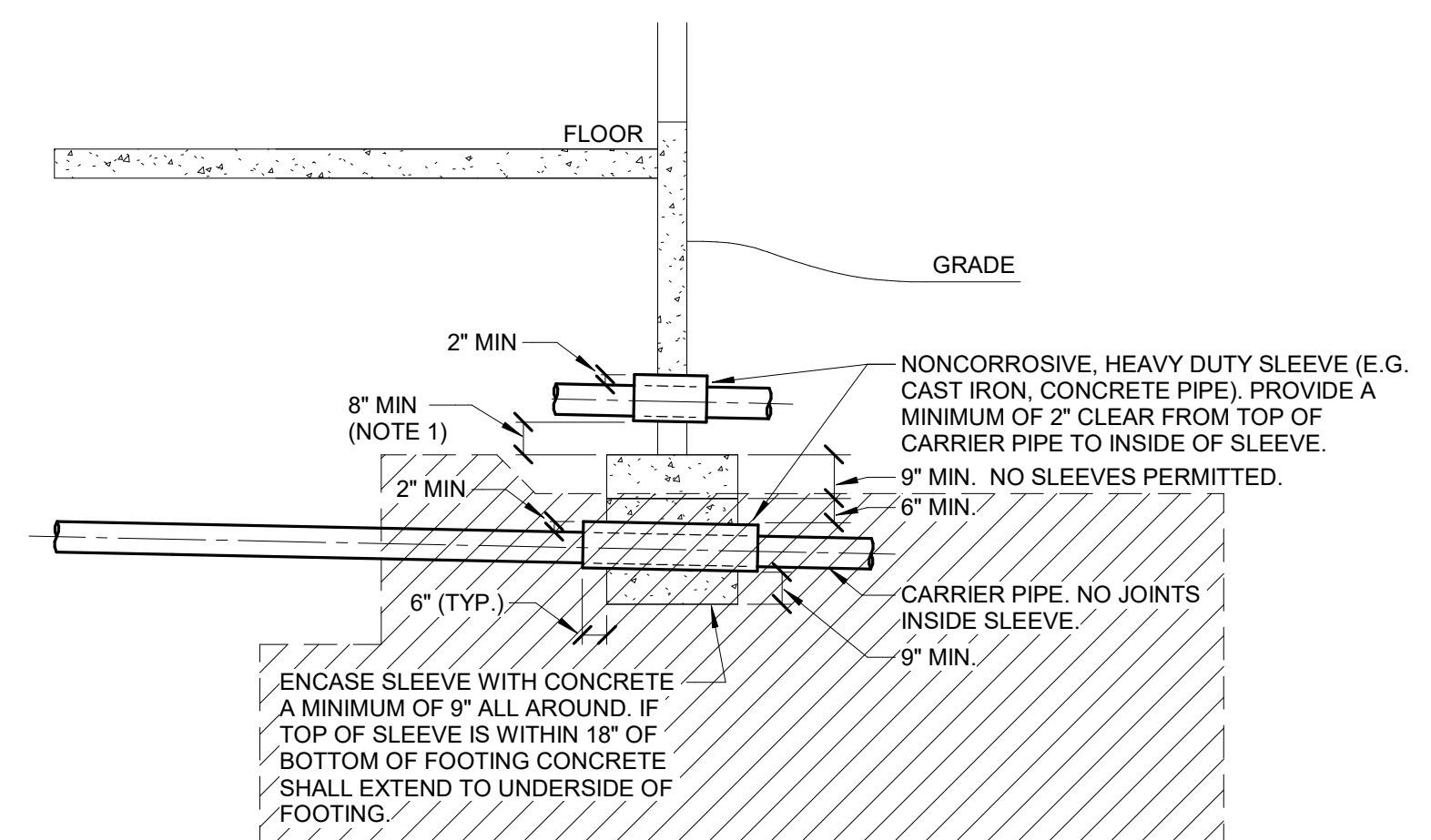
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438-460

Building Number
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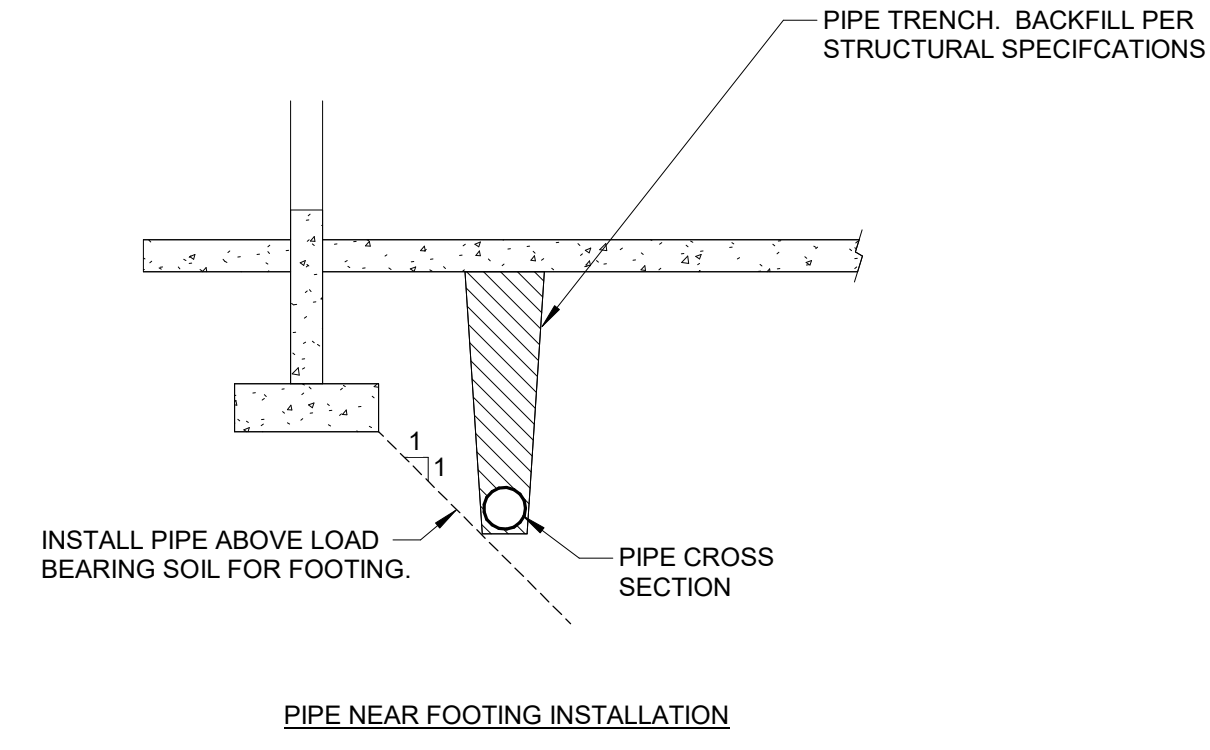
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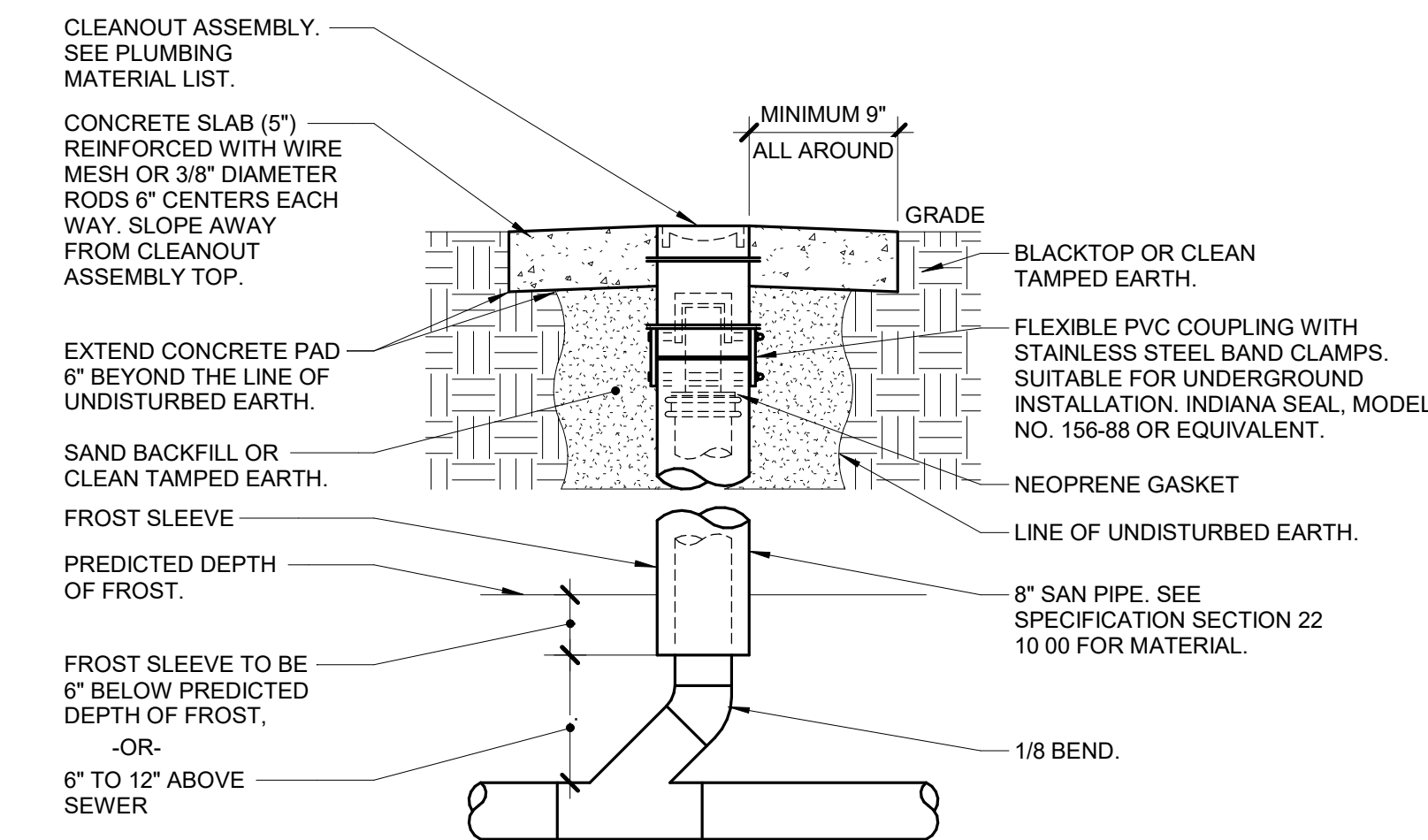
1 DRAIN TILE DETAIL
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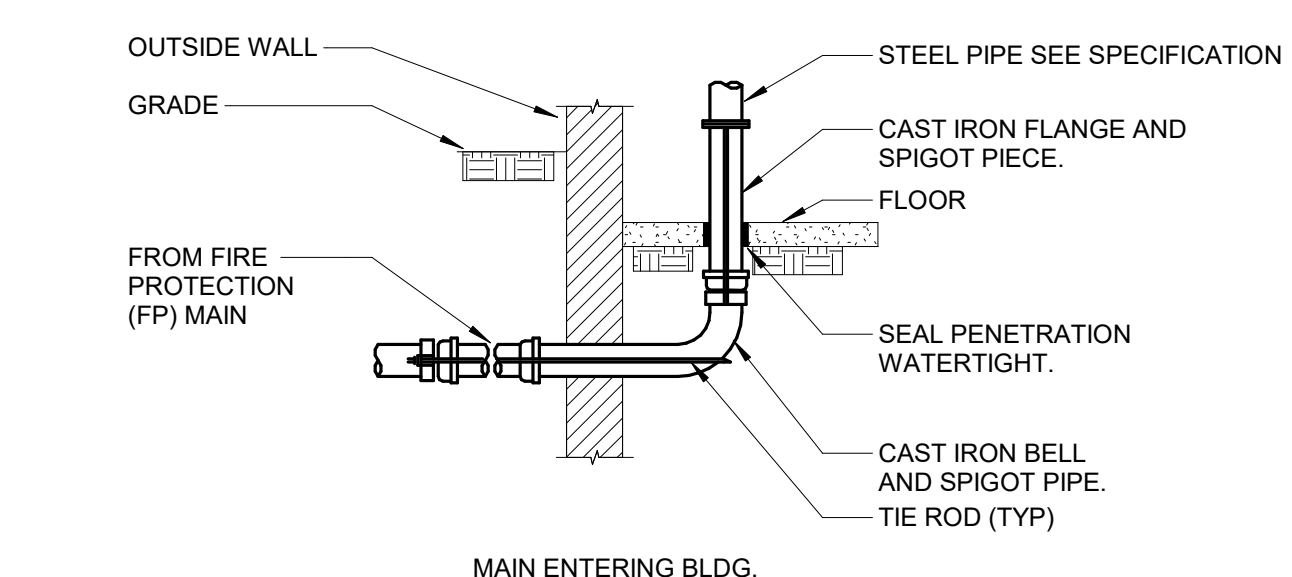
2 PIPE FOUNDATION AND SLEEVE DETAIL
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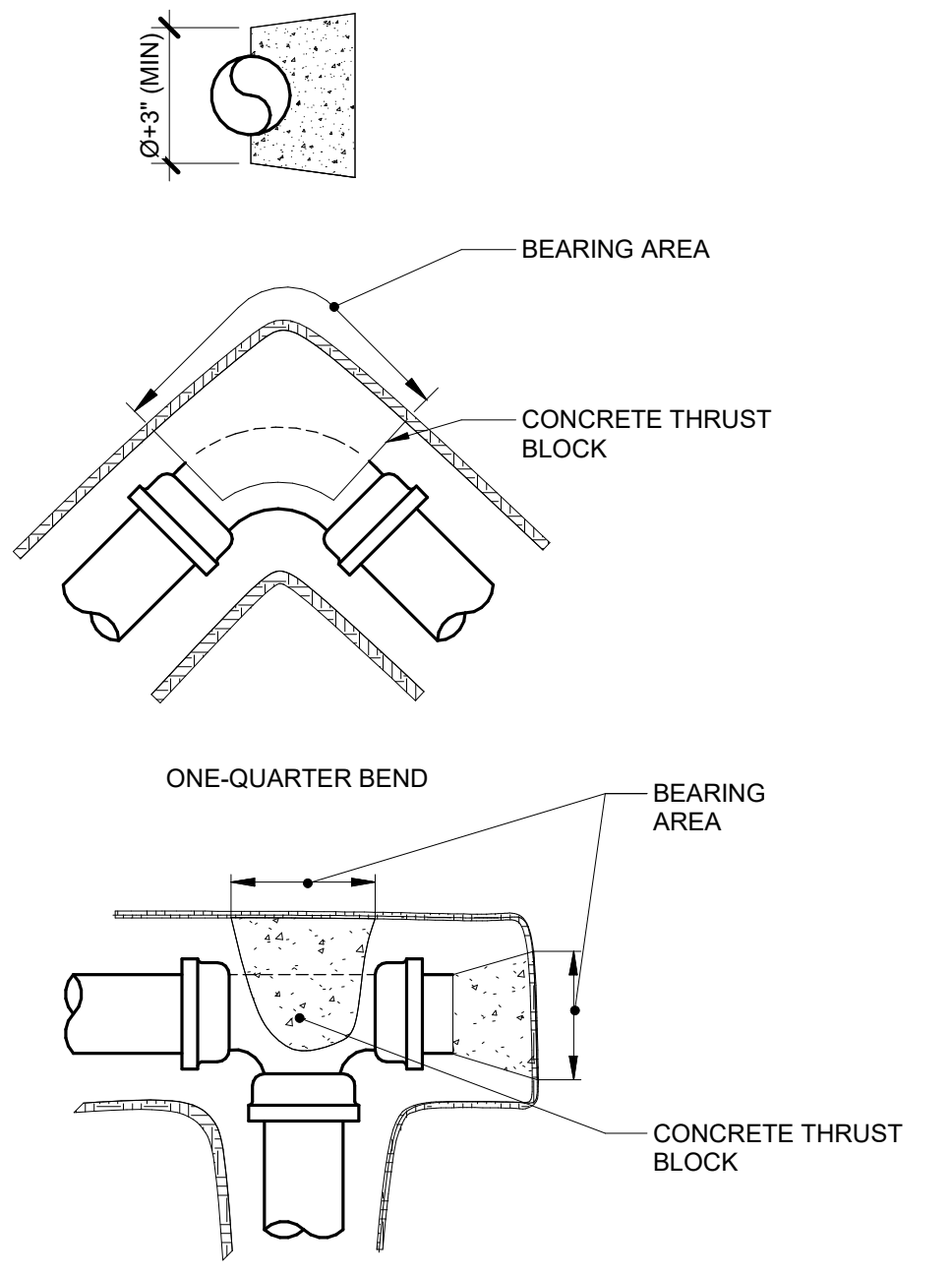
3 PIPE UNDERFLOOR TRENCH DETAIL
NO SCALE



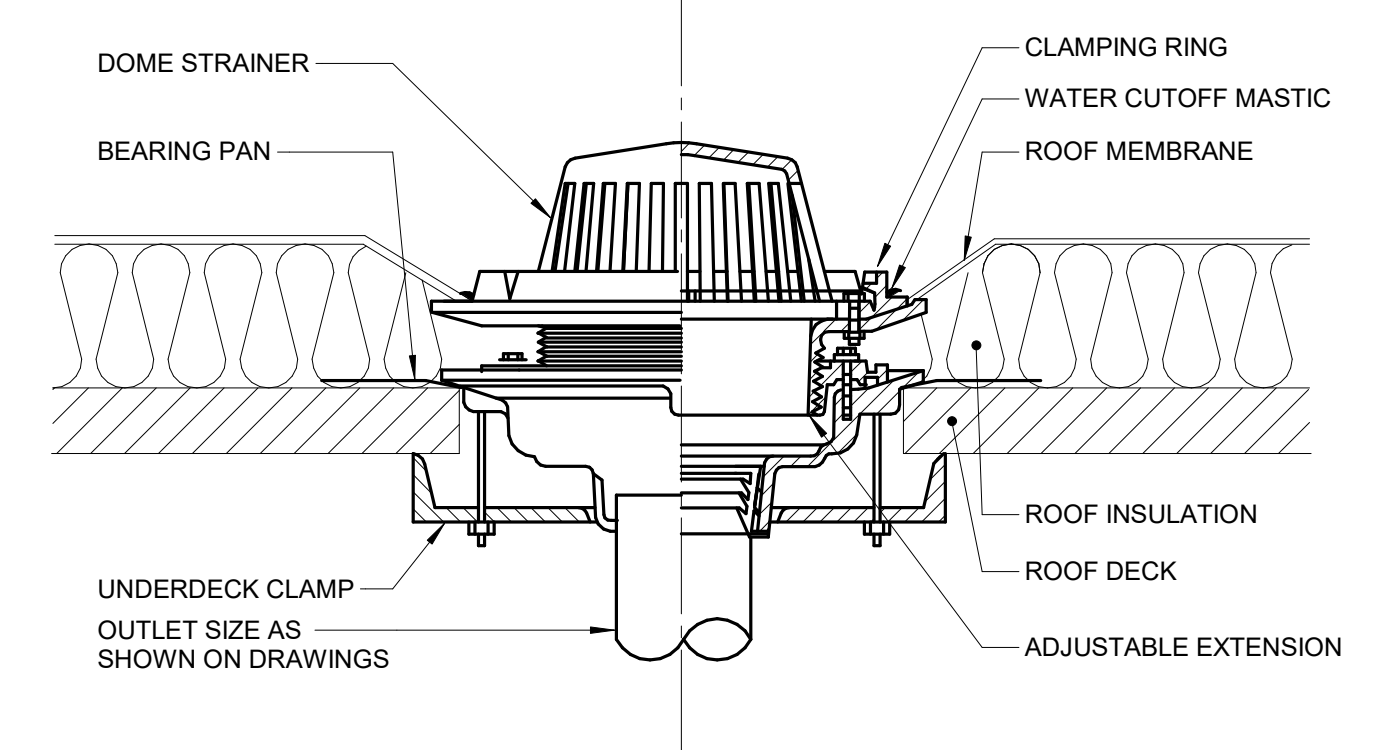
4 YARD CLEANOUT DETAIL
NO SCALE



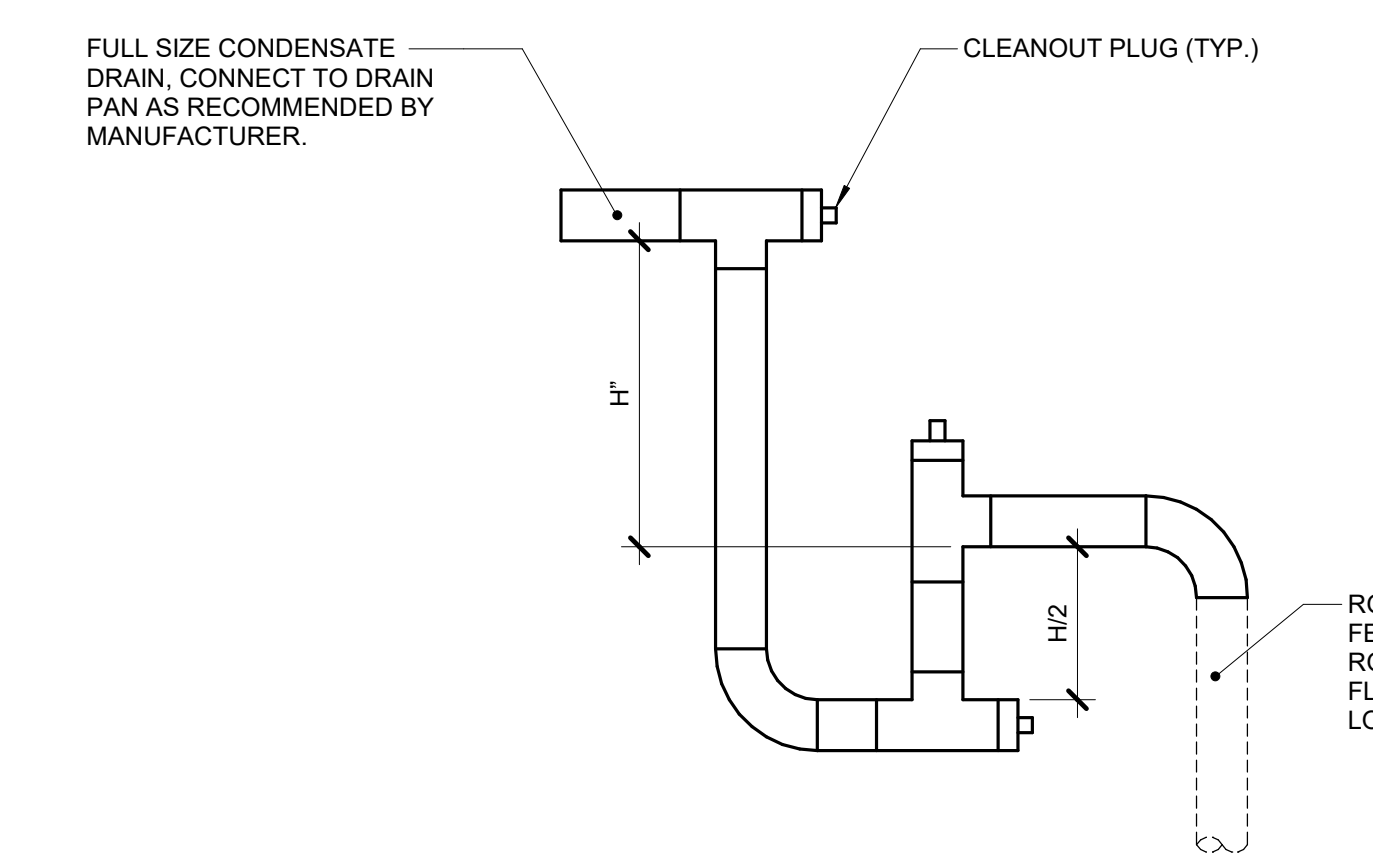
5 UNDERGROUND WATER MAIN ANCHORING DETAIL
NO SCALE



6 ROOF DRAIN DETAIL
NO SCALE



7 VENT PIPE FLASHING
NO SCALE



8 CONDENSATE TRAP DETAIL (DRAW-THROUGH)
NO SCALE

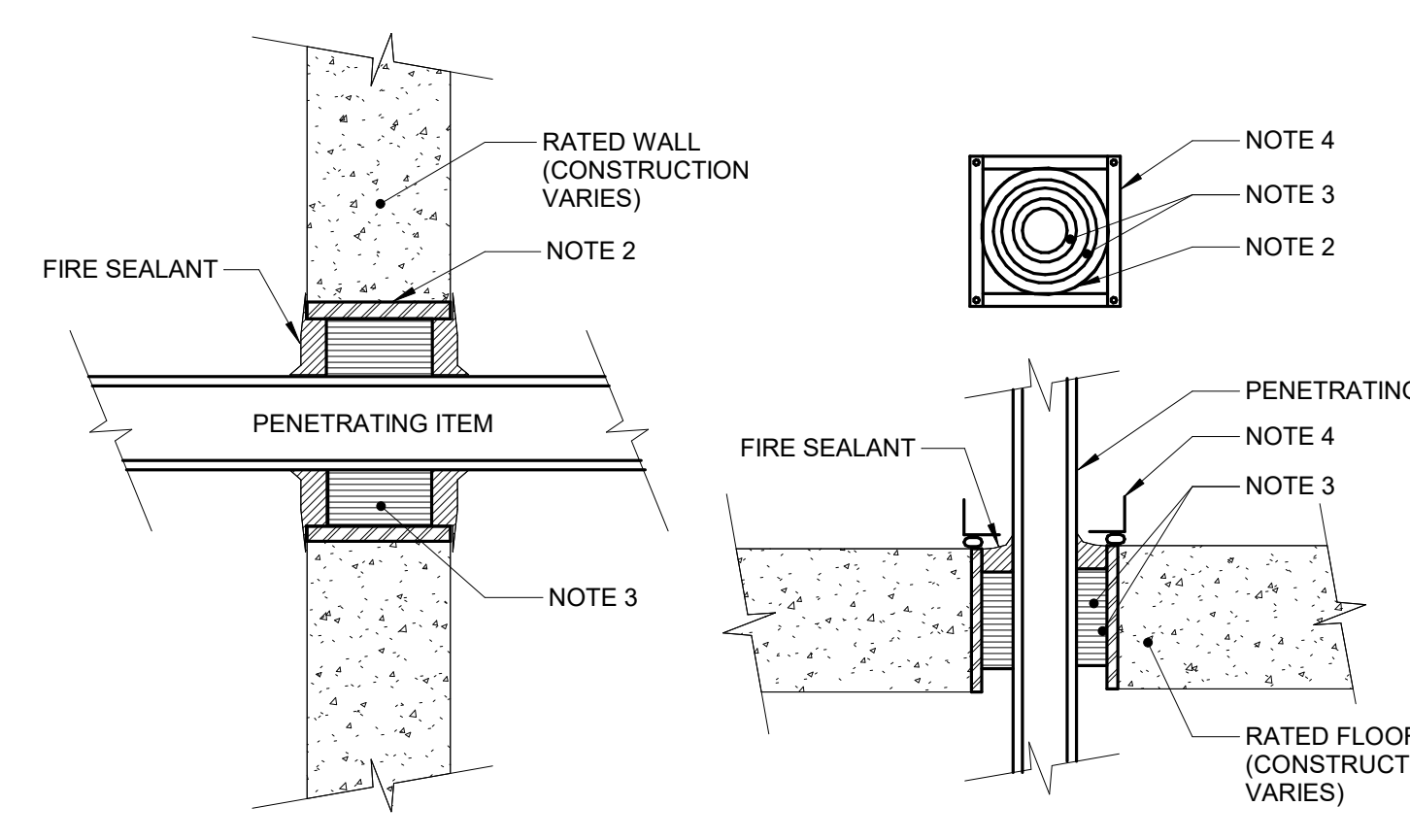
ROD AND CLAMP ANCHORAGE

PIPING NOMINAL SIZE (IN.)	CLAMP SIZE (IN.)	BOLT SIZE (IN.)	WASHER (IN.)	NUMBER OF RODS AND ROD SIZE (IN.) FOR ROD AND CLAMP ANCHORAGE					
				MECHANICAL JOINT		PUSH ON JOINT			
				90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG	90° 1/4 BEND	45° 1/8 BEND	TEE, HYDRANT CAP, PLUG
6	1/2x2	5/8	5/8x3	1/2x3	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4

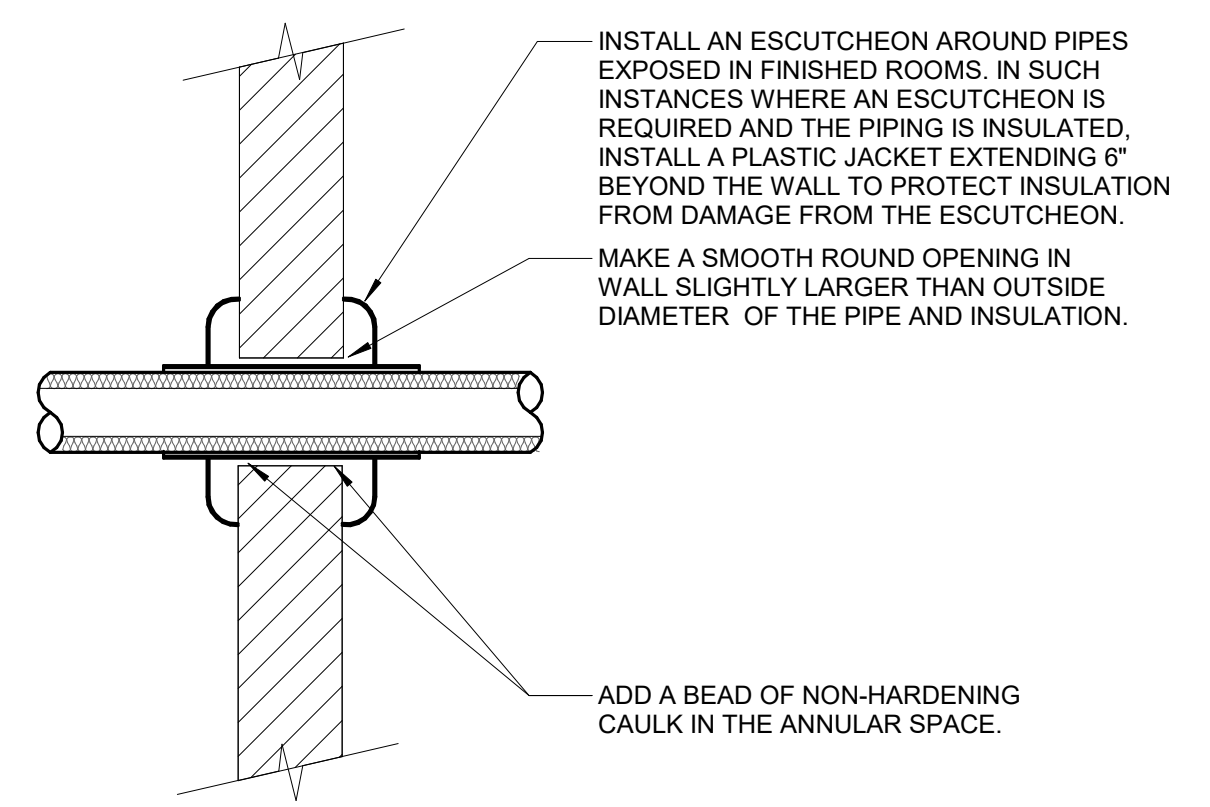
THRUST BLOCKS

PIPING NOMINAL SIZE (IN.)	MIN. SQ. FT.			
	1/4 BEND	1/8 BEND	TEES, PLUGS, CAPS, HYDRANTS	5
6	7	4	5	5

BASIS: 2,000 LB/SQ. FT. SOIL RESISTANCE.
 PSI WATER PRESSURE.
 CORRECTION FACTORS FOR OTHER SOILS:
 SOFT CLAY.....0.4
 SAND.....2
 SAND&GRAVEL.....1.33
 SHALE.....0.4



9 FIRE RATED FLOOR/WALL PENETRATION DETAIL
NO SCALE



10 NON-FIRE RATED WALL PENETRATION DETAIL
NO SCALE

- NOTES:**
- AFTER INSTALLATION, PROTECT TIE RODS, BOLTS, NUTS, WASHERS AND CLAMPS AGAINST CORROSION WITH A HEAVY COAT OF ASPHALT MATERIAL.
 - THE LENGTH OF THE ROD REQUIRED WILL VARY WITH THE PIPE FITTING, AND MUST BE DETERMINED BY FIELD MEASUREMENT. IF THE DISTANCE BETWEEN THE JOINTS IS LESS THAN 12 FEET, EXTEND THE ANCHORAGE TO THE SECOND BELL.
 - BOTH THRUST BLOCKING AND ANCHOR RODES ARE REQUIRED.
 - REFER TO THE GOVERNING CODE AND NFPA 24 FOR ADDITIONAL REQUIREMENTS.

- NOTES:**
- THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 22 05 03 FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
 - SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL, EACH CONTRACTOR FURNISHES SLEEVE TO G.C. COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
 - INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
 - WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

- NOTES:**
- THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
 - SEE SPECIFICATION SECTIONS 22 05 29 FOR ADDITIONAL INFORMATION.
 - FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION 22 05 2 FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

Revisions:

NO.	DATE	DESCRIPTION

CONSULTANT

IMEG

2802 100TH STREET
DES MOINES, IA 50325
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PROJECT # 1904249.04

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ARCHITECT/ENGINEER OF RECORD

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 16584

STAMP

Professional Engineer
Dellan J. Llewellyn
27052
IOWA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
PLUMBING DETAILS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
NATJAC

Drawn
DELLE

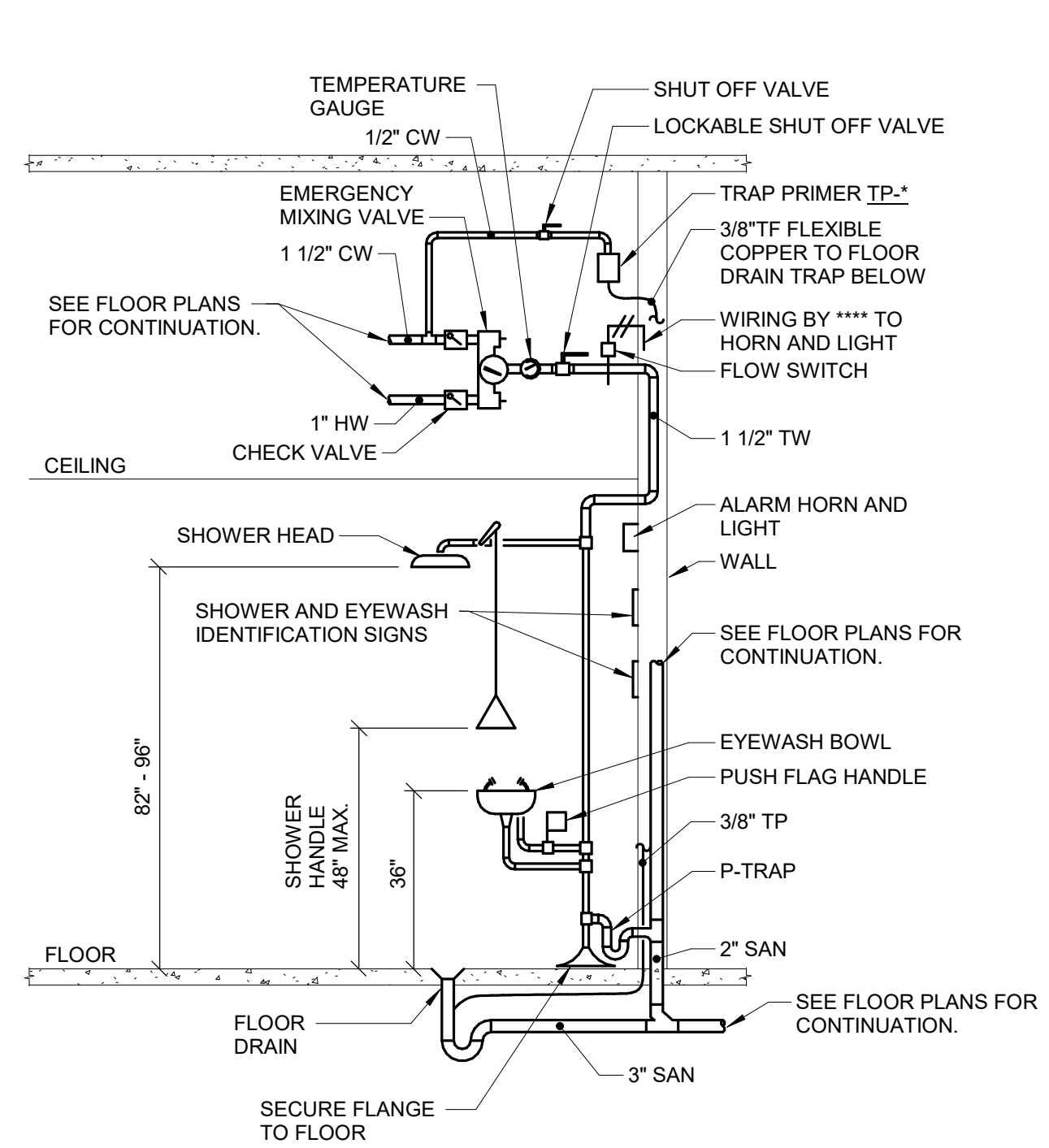
Project Number
438-460

Building Number
5

Drawing Number
PL400

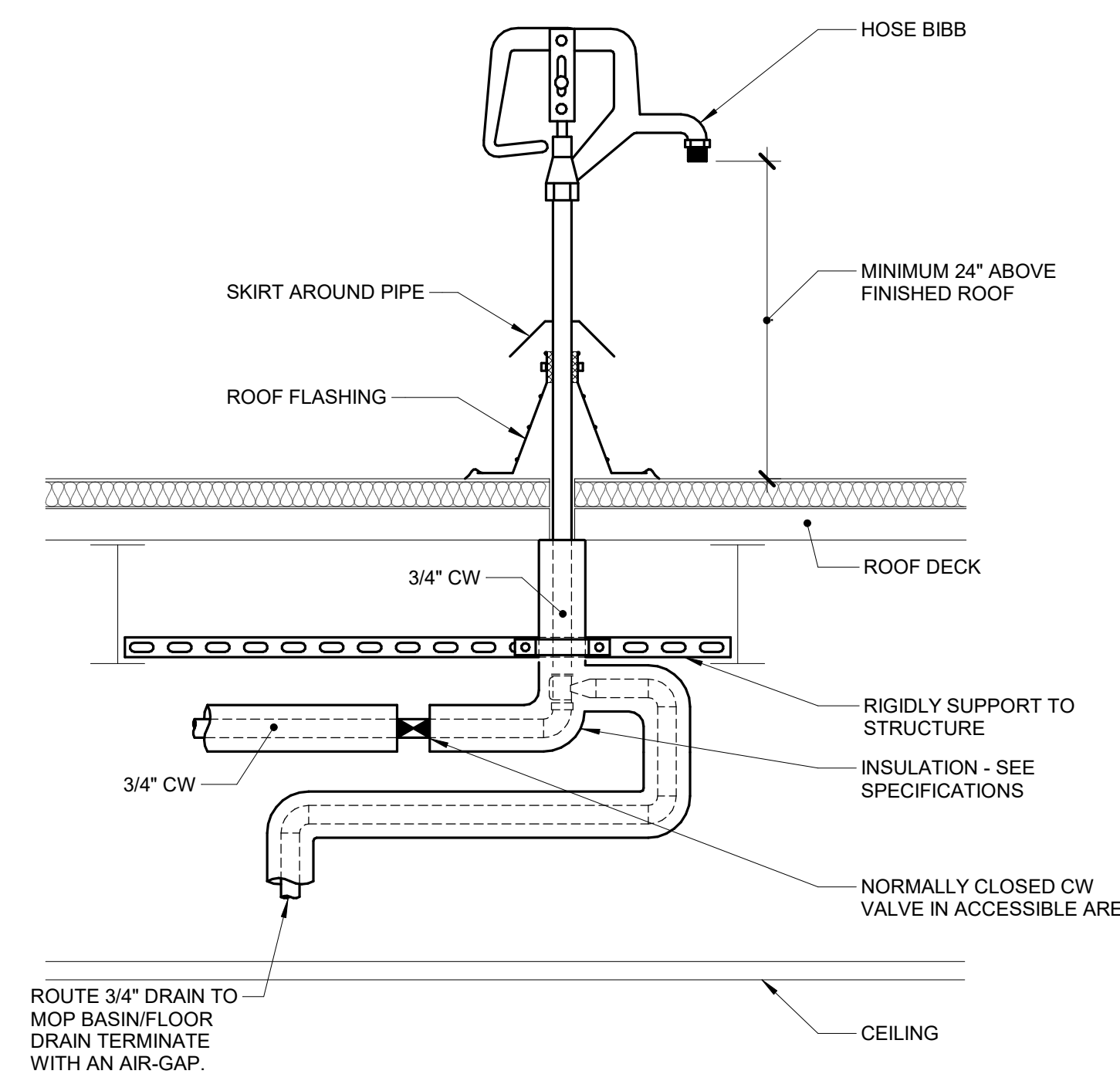
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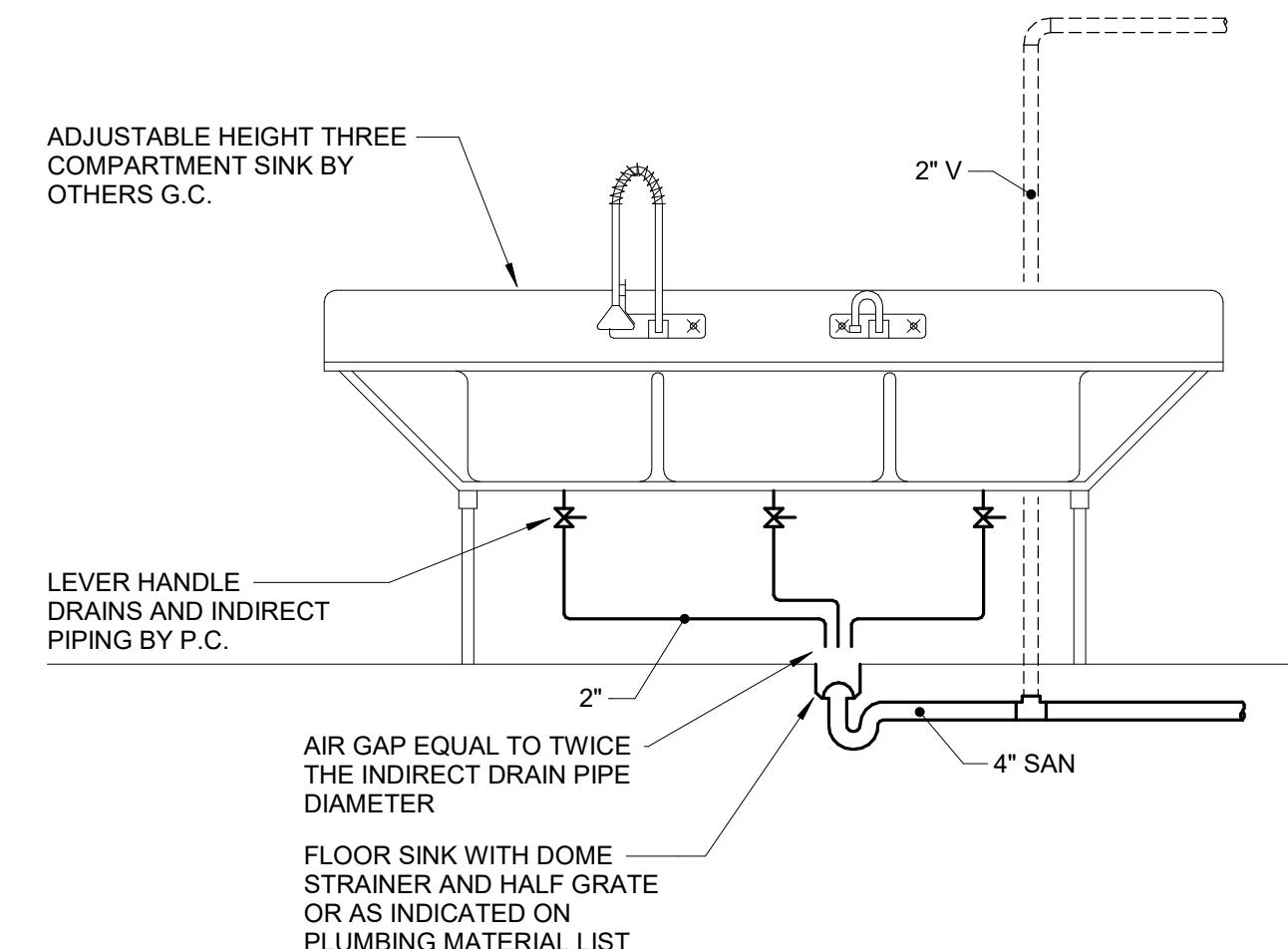


1 EMERGENCY SHOWER & EYEWASH DETAIL
NO SCALE

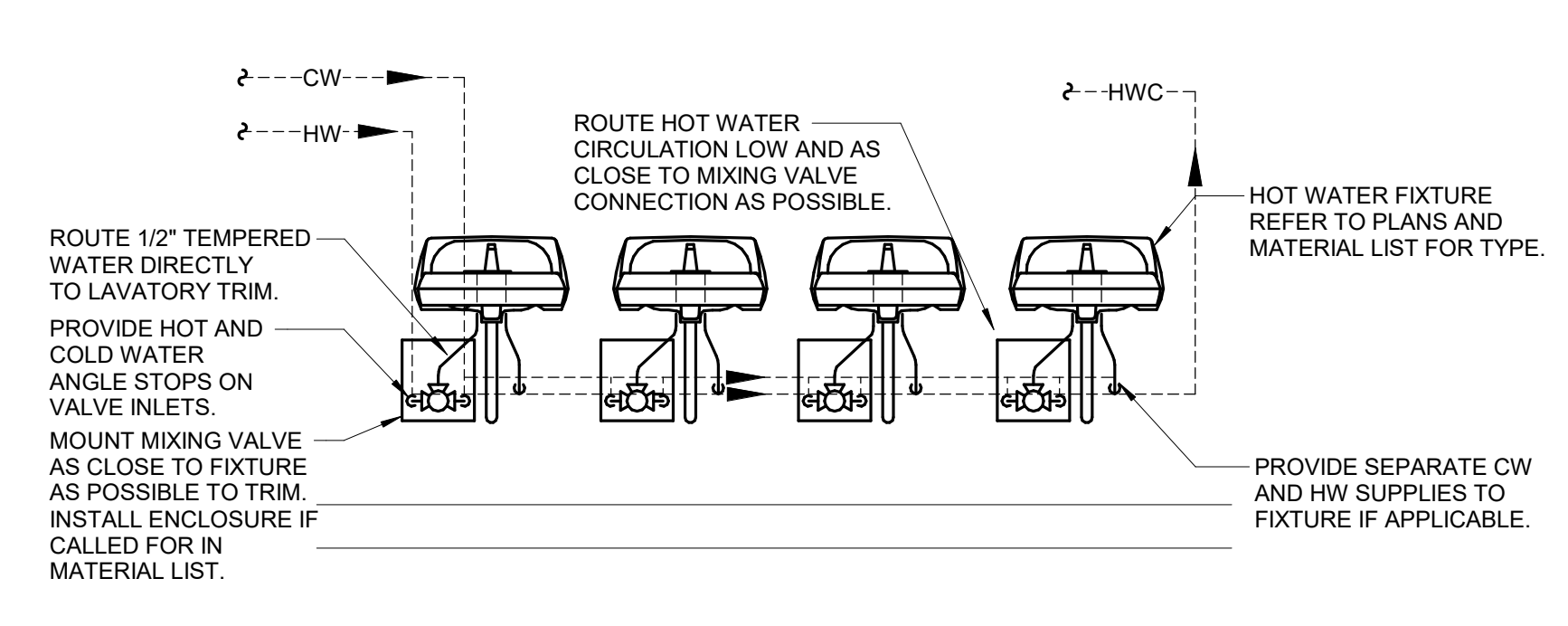
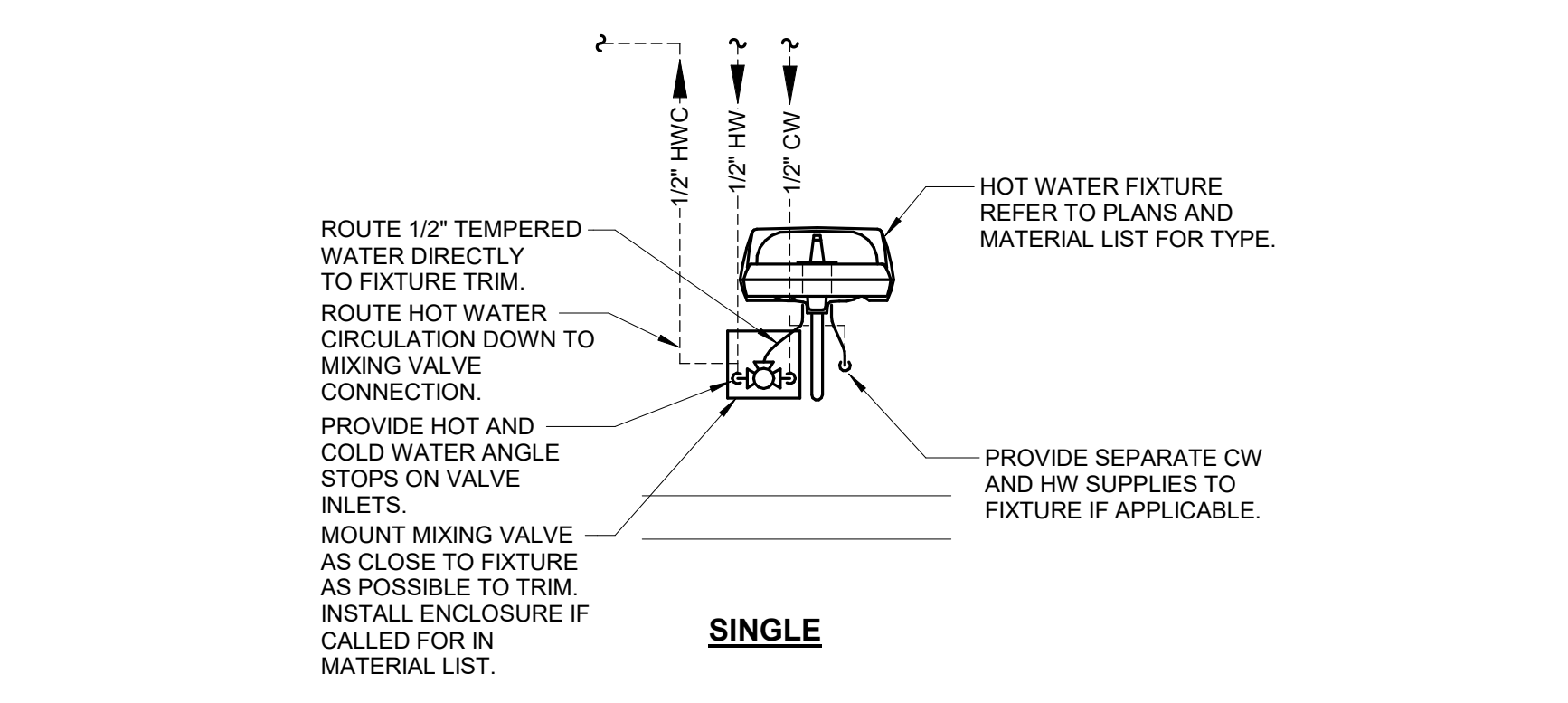
- NOTES:**
- EYEWASH AND SHOWER PERFORMANCE AND ROUGH-IN SHALL MEET THE CURRENT VERSION OF ANSI Z358.1.
 - GENERAL CONTRACTOR SHALL PAINT AREA AROUND AND BEHIND SHOWER/EYEWASH A BRIGHT COLOR AS DIRECTED BY THE ARCHITECT.



2 ROOF HOSE BIBB DETAIL
NO SCALE

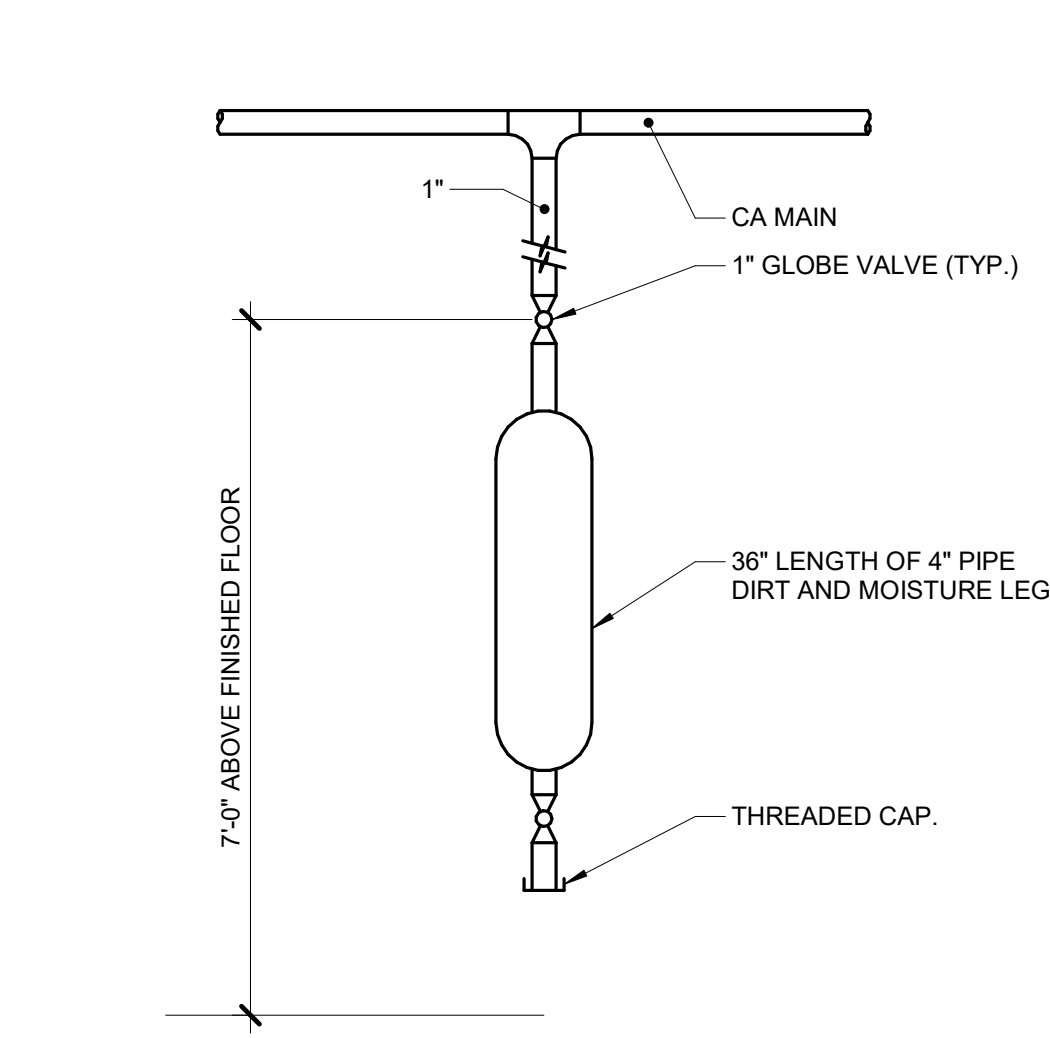


3 THREE COMPARTMENT SINK DETAIL
NO SCALE

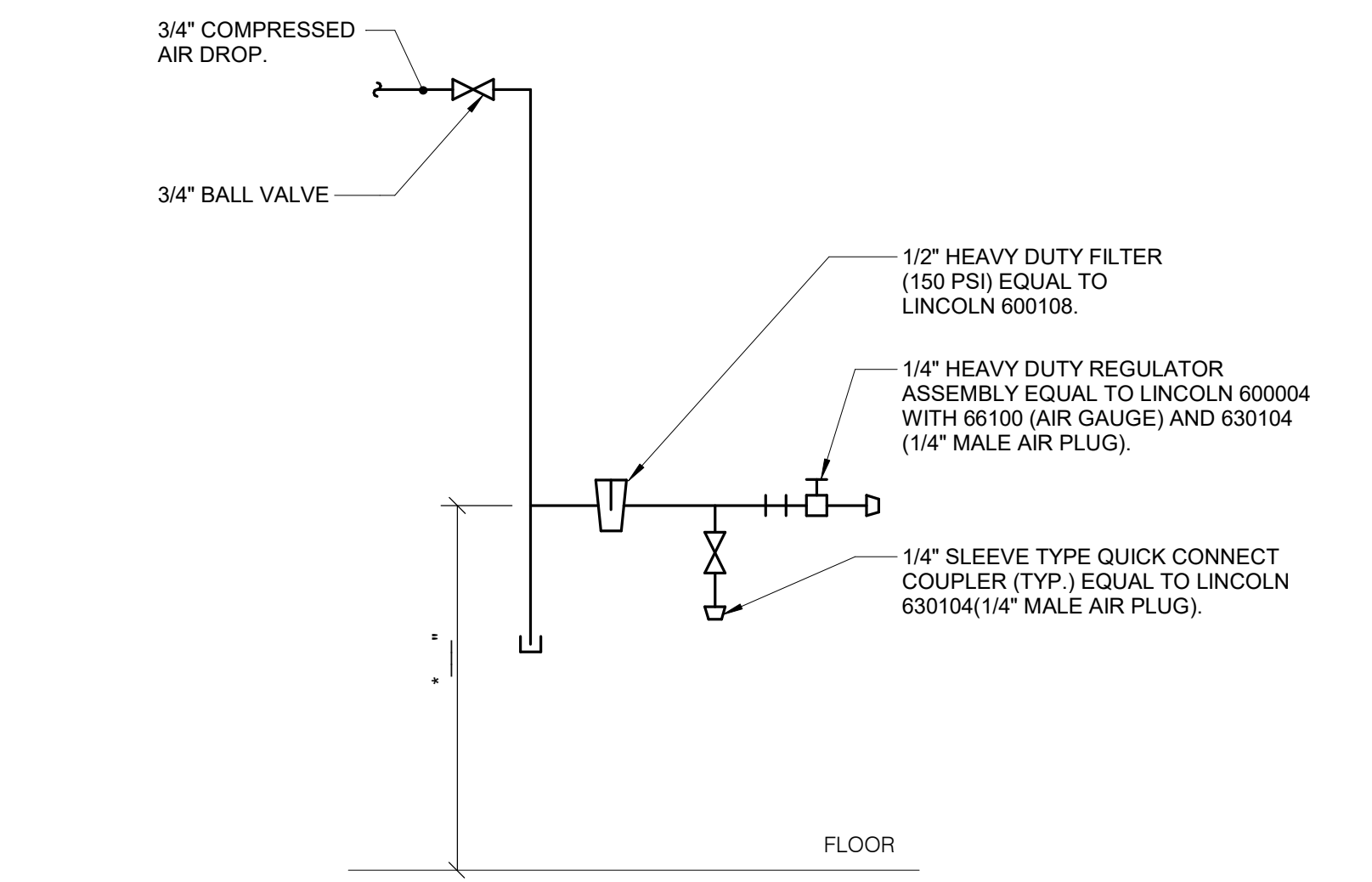


4 FIXTURE HOT WATER ROUTING DETAIL
NO SCALE

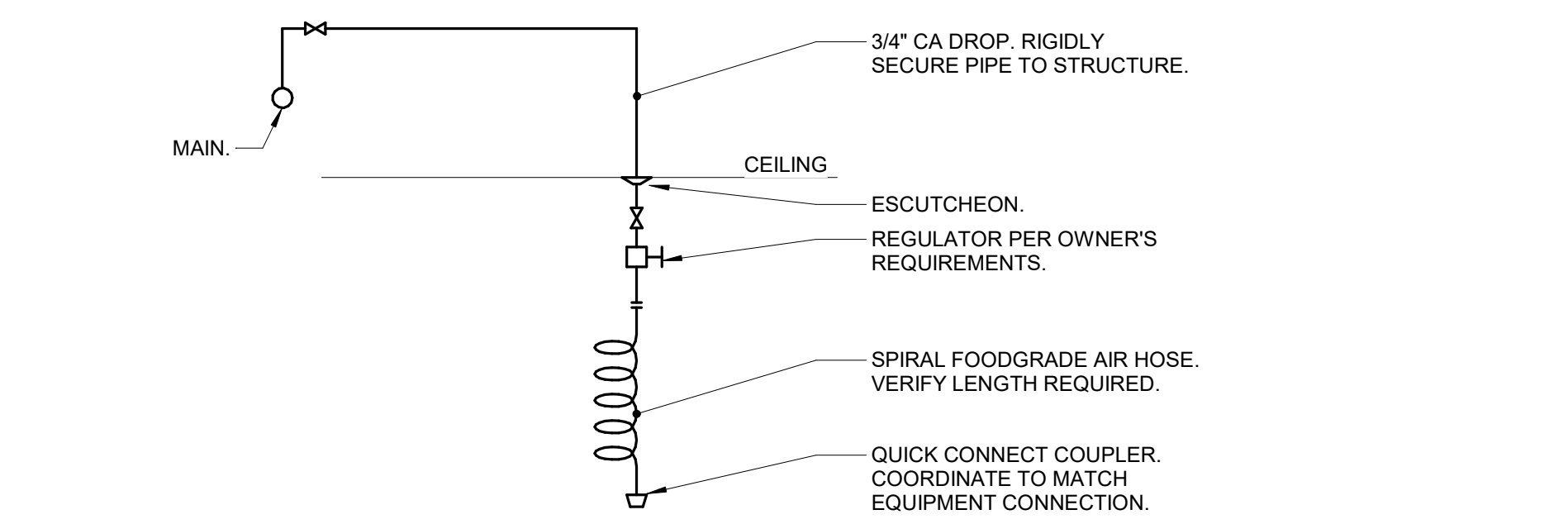
- NOTES:**
- LAVATORY SHOWN. DETAIL IS APPLICABLE TO ALL HW FIXTURES AND DEVICES (E.G. LAVATORIES, SINKS, SHOWERS, TUBS, MOP SINKS, LAUNDRY TUBS, ETC.).



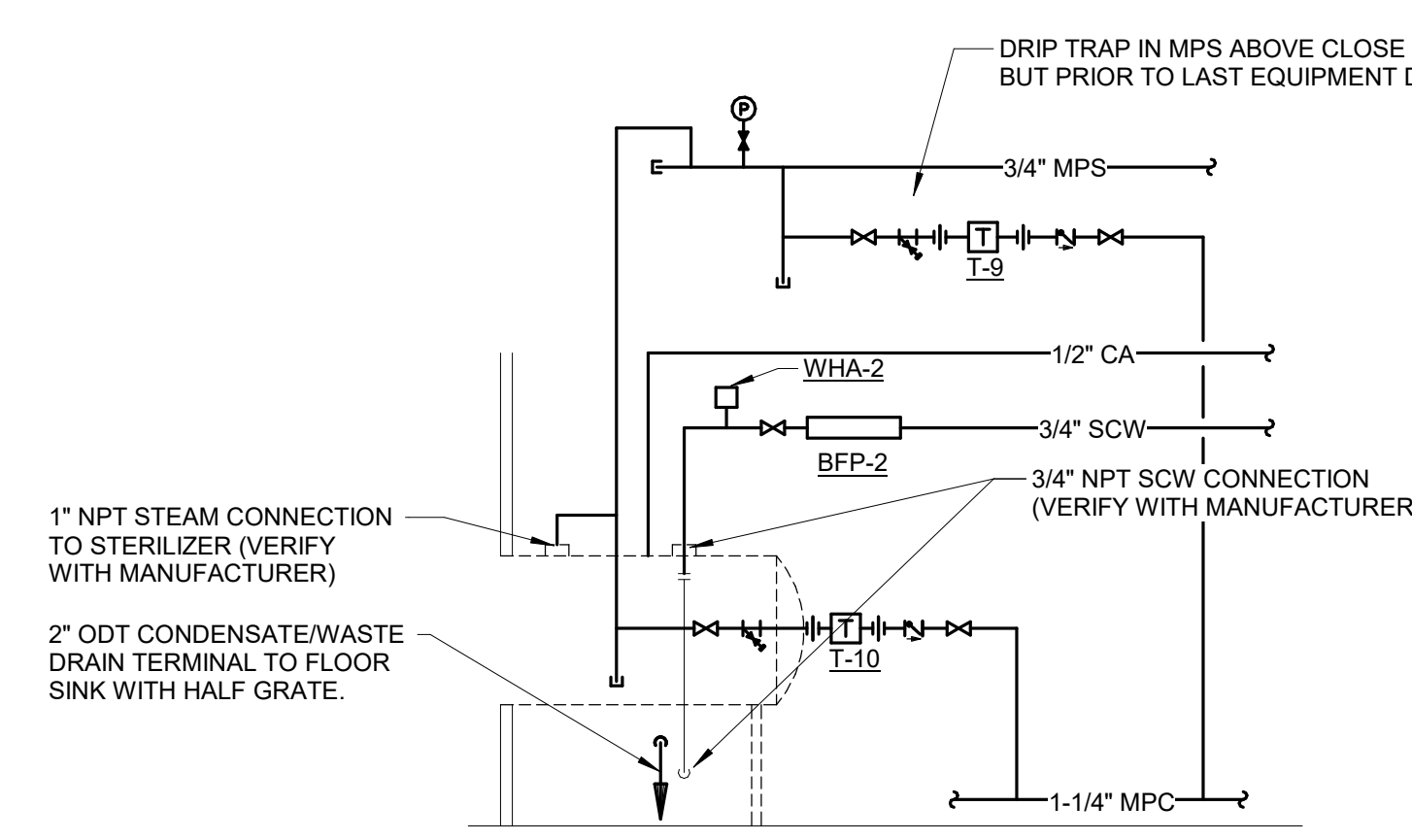
5 COMPRESSOR AIR DRAIN
NO SCALE



6 COMPRESSED AIR TERMINAL DETAIL
NO SCALE

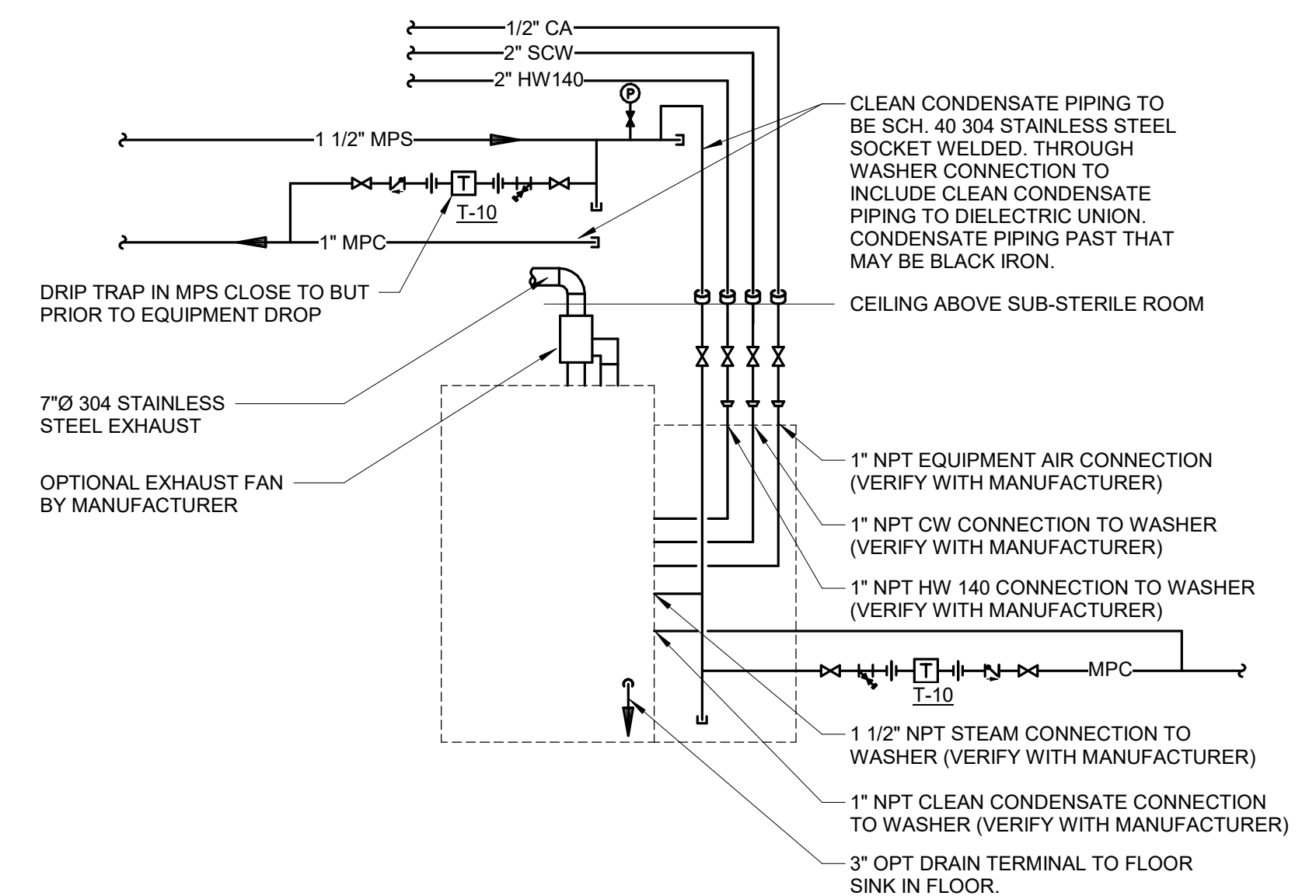


7 COMPRESSED AIR TERMINAL DETAIL (AT CEILING)
NO SCALE



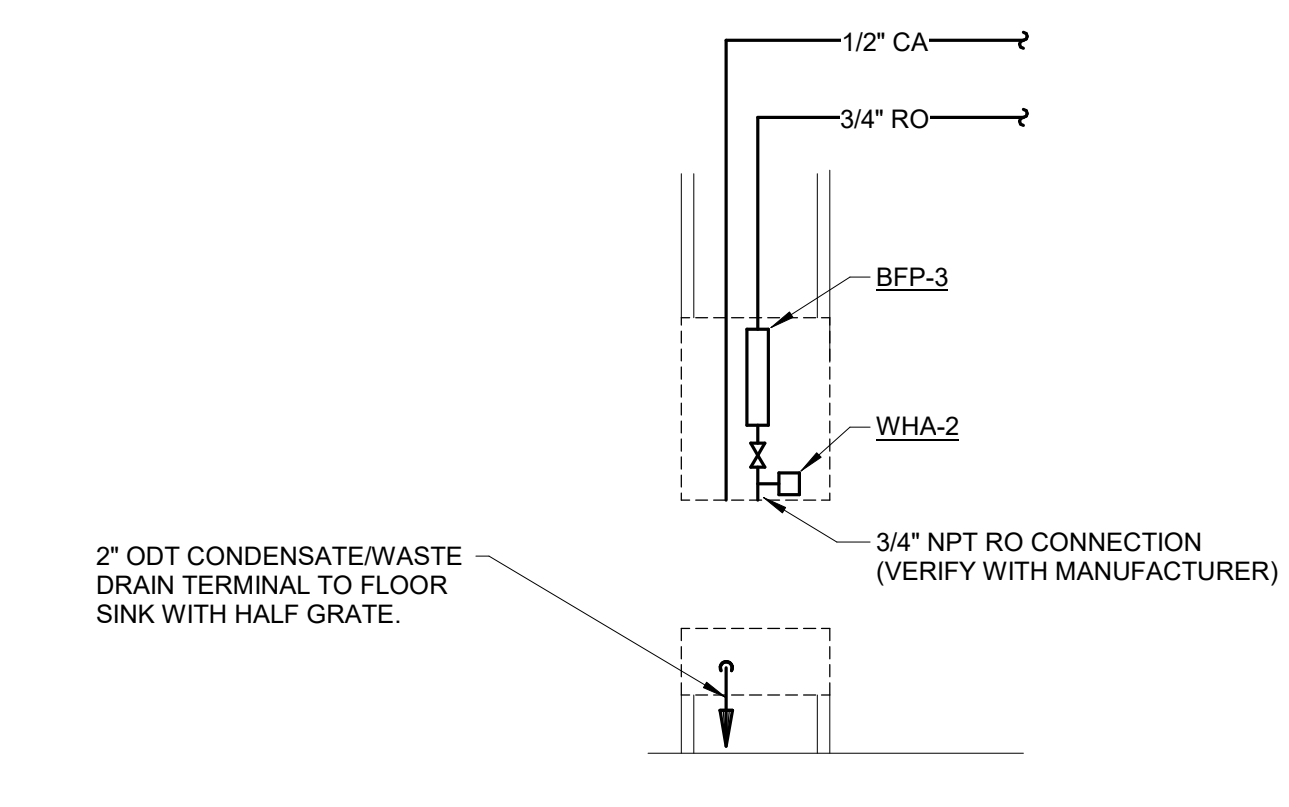
9 STERILIZER PIPING DETAIL
NO SCALE

- NOTES:**
- REFER TO EQUIPMENT MANUFACTURER DETAILED PRODUCT SUBMITTALS FOR SPECIFIC ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS.



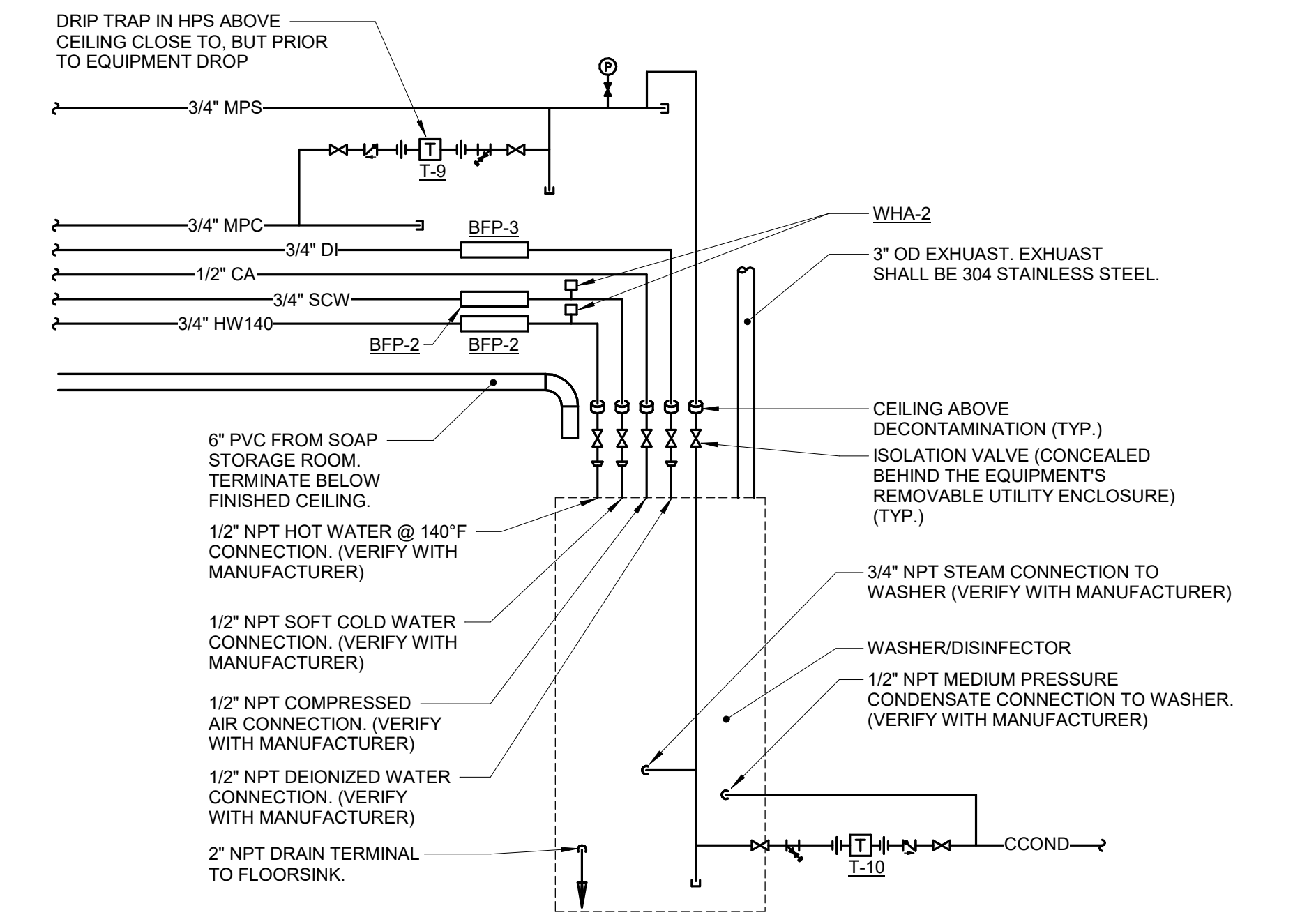
10 CART WASH PIPING DIAGRAM
NO SCALE

- NOTES:**
- REFER TO EQUIPMENT MANUFACTURER DETAILED PRODUCT SUBMITTALS FOR SPECIFIC ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS.



11 ENDOSCOPE REPROCESSOR PIPING DETAIL
NO SCALE

- NOTES:**
- REFER TO EQUIPMENT MANUFACTURER DETAILED PRODUCT SUBMITTALS FOR SPECIFIC ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS.



8 WASHER DISINFECTOR PIPING DIAGRAM
NO SCALE

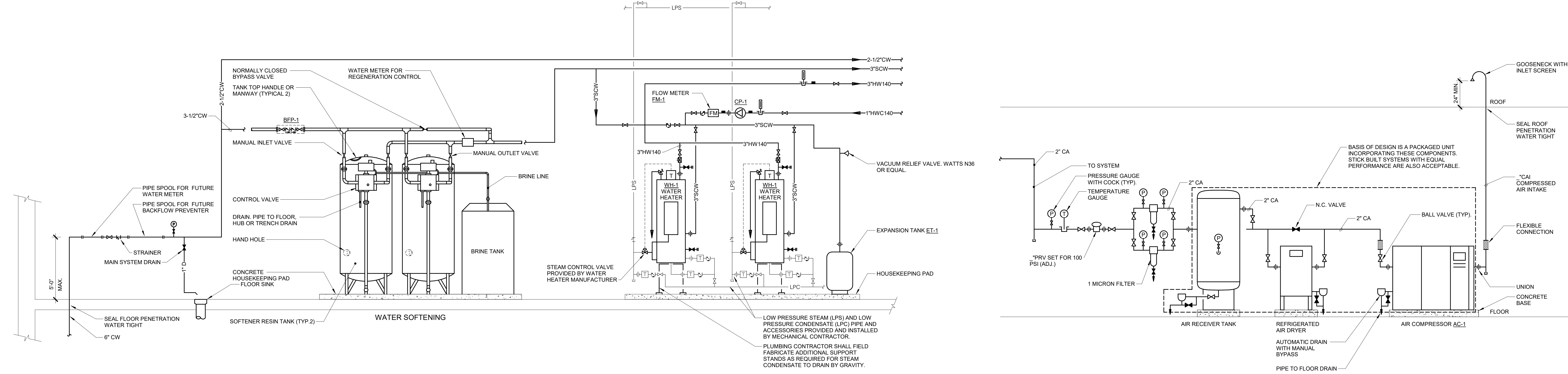
- NOTES:**
- REFER TO EQUIPMENT MANUFACTURER DETAILED PRODUCT SUBMITTALS FOR SPECIFIC ROUGH-IN LOCATION AND INSTALLATION REQUIREMENTS.

CONSULTANT 2882 100TH STREET DES MOINES, IA 50325 515.334.9900 FAX: 515.334.9908 www.imegcorp.com PROJECT # 1904249.04 <small>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. THIS DRAWING AND DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2025 IMEG CORP.</small>		ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584		STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PLUMBING DETAILS Approved:	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460 Building Number 5	
Revisions:		Date:		Fully Sprinklered		Location Sioux Falls, SD.	Issue Date 02/14/2025	Checked NATJAC	Drawn DELLE	Drawing Number PL401

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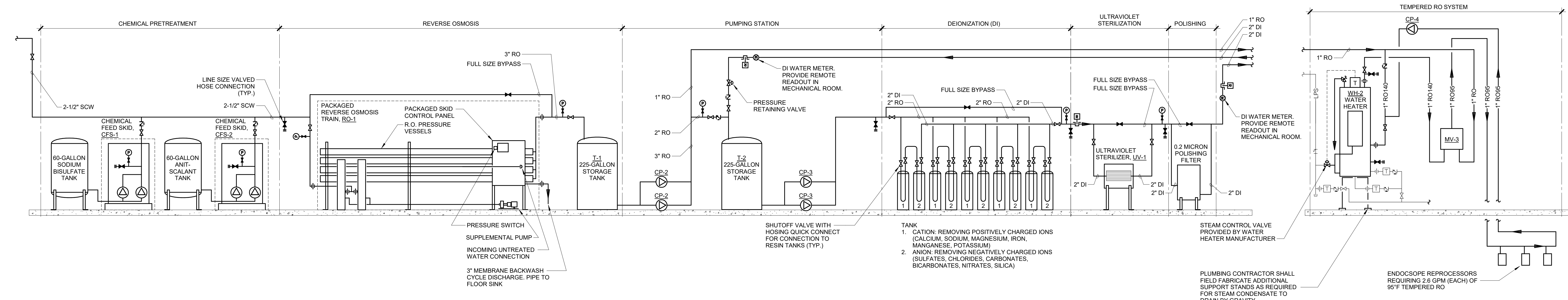
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Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

ANDERSON

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STAMP

Office of
Construction
and Facilities
Management

U.S. Department
of Veterans
Affairs

Drawing Title
PLUMBING FLOW DIAGRAMS

Approved: _____

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
NATJAC

Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
PL500

PLUMBING MATERIAL LIST
TAG NAME: BFP-1, BFP-2, BFP-3, CFS-1, CFS-2, CP-1, CP-2, CP-3, CP-4, EOC-1, EOC-2, EOC-3, EOC-4, EOC-5, F-1, FD-C1, FD-C2, FD-S1, FD-S2, MV-1, MV-2
DESCRIPTION: BACK FLOW PREVENTER - DOUBLE CHECK, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION...
MANUFACTURER AND MODEL: APOLLO (A4L-100), WATTS (F507), WILKINS (375XL), FEBCO (LF860), APOLLO (RPLF4A)

PLUMBING MATERIAL LIST
TAG NAME: MV-3, P-103, P-103A, P-402, P-501, P-502, P-528, P-608, P-701
DESCRIPTION: DIGITAL MIXING VALVE - MASTER THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL...
MANUFACTURER AND MODEL: POWERS INTELLISTATION (LF5075), WATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD

PLUMBING MATERIAL LIST
TAG NAME: P-707, P-708, P-801, P-804, P-805, RD-1, RD-2, RD-3, RD-1, RD-1, T-1, T-2, UV-1, WCO-1, WH-1, WH-2, WHA-1, WHA-2, WHA-3, W-S1, YCO-1
DESCRIPTION: EMERGENCY SHOWER & EYE/FACE WASH - COMBINATION UNIT, FREESTANDING, FLOOR MOUNTED WITH BACK INLET...
MANUFACTURER AND MODEL: GUARDIAN (G1600 SERIES), BRADLEY (S1934 SERIES), ACORN SAFETY (S13523 SERIES), HAWES (8300 SERIES), SPEAKMAN (SE-1200 SERIES), ENCON

Revisions: Table with columns for Revision Number, Date, and Description.

CONSULTANT: IMEG logo and contact information.

ARCHITECT/ENGINEER OF RECORD: ANDERSON logo and contact information.

STAMP: Professional Engineer Seal for Delian J. Lewellen, State of Minnesota.

Office of Construction and Facilities Management, U.S. Department of Veterans Affairs. Drawing Title: PLUMBING MATERIAL LISTS. Project Title: CONSTRUCT NEW SPS. Location: Sioux Falls, SD.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for ground bus, termination, connections, junction boxes, floor boxes, technology outlets, TV antennas, multi-outlet systems, wireways, panelboards, switches, breakers, doors, dryers, and push pads.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for duplex receptacles, ground fault devices, explosion proof receptacles, surge suppression, USB charging, arc fault interrupters, tamper resistant receptacles, quad receptacles, pedestal style receptacles, and power poles.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for switches (single pole, timer, adjustable, door jamb, emergency, explosion proof, key lock, lighted handle, momentary contact, pilot light, weatherproof, two/three way, emergency, key lock, four way), dimmers, photocells, occupancy sensors, dual technology sensors, wall switches, time switches, dimmer control stations, automatic load control relays, and branch circuit emergency lighting transfer switches.

ELECTRICAL SYMBOL LIST table with columns: SYMBOL, TAG, SPEC SECTION, DESCRIPTION. Includes symbols for linear luminaires, troffers, wall sconce luminaires, downlight luminaires, aimable/wall wash luminaires, industrial luminaires, wall bracket luminaires, pole mounted luminaires, single/double face exit signs, wall/ceiling emergency exit signs, and emergency units.

ELECTRICAL EQUIPMENT TAGS table with columns: TAG, DESCRIPTION, RELATED SPECIFICATION. Lists tags for automatic transfer switches, battery racks, contactors, reels, distribution panels, inverters, surge protection devices, uninterruptible power supplies, and variable frequency drives.

CONTACT PERSONS table with columns: DESCRIPTION, PERSON. Lists contact information for Project Manager (Eric J. Henderson), Mechanical (Dellan J. Llewellyn), Electrical (Kristen Spina), and Technology (Damon M. Deen).

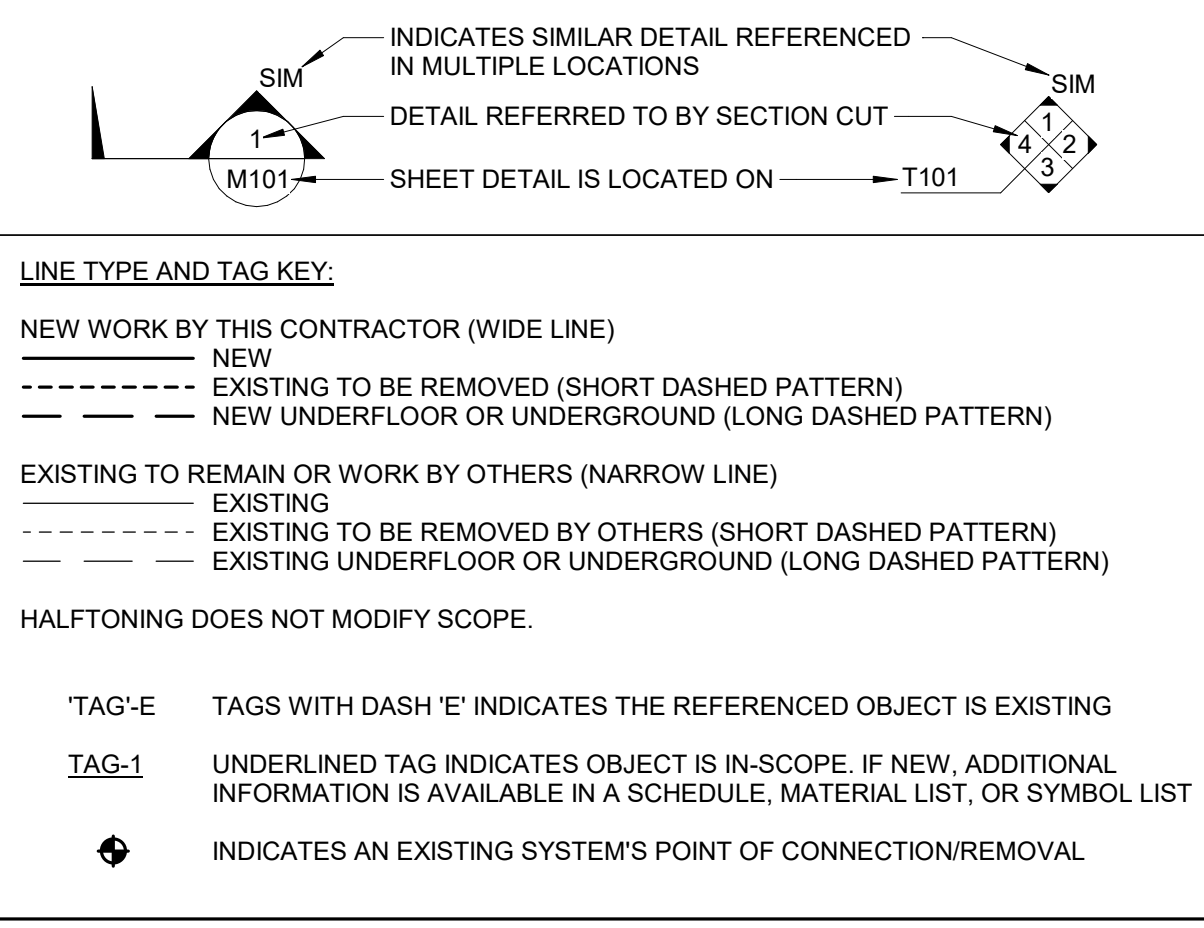
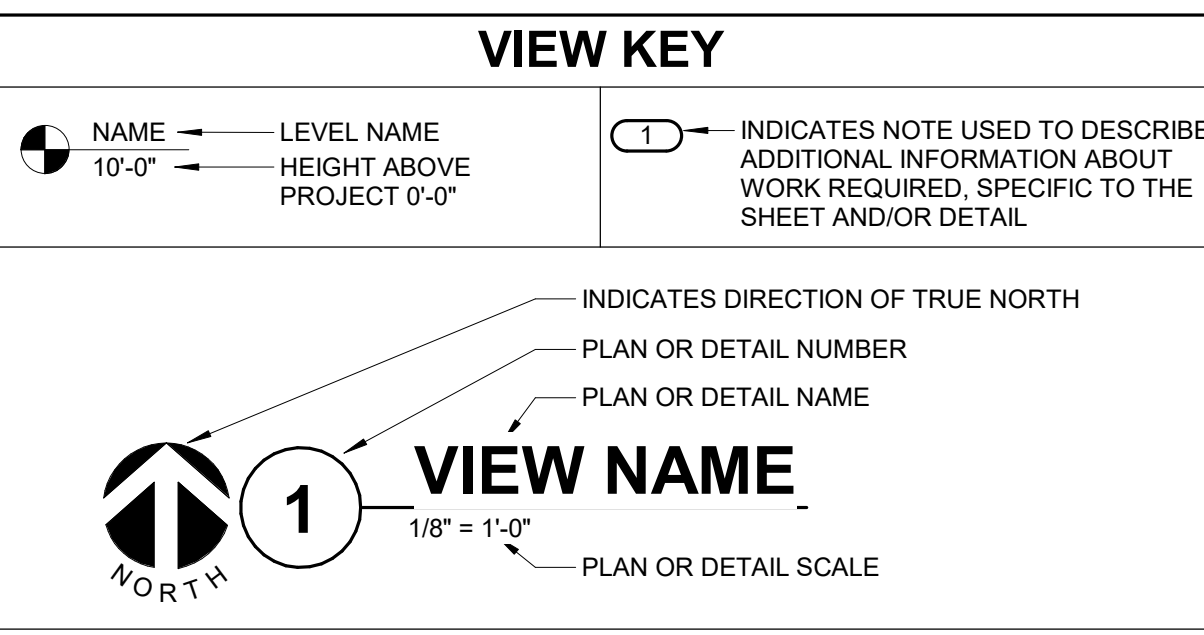
APPLICABLE CODES table with columns: CODE, DESCRIPTION. Lists various building codes including IBC 2021 Edition, IFCC 2021 Edition, IPC 2021 Edition, NFPA 70 (NEC) 2020 Edition, NFPA 101 2021 Edition, and IECC 2021.

LUMINAIRE SYMBOL KEY table with columns: SYMBOL, DESCRIPTION. Defines symbols for normal branch luminaires, critical branch luminaires, and emergency branch luminaires.

ELECTRICAL ABBREVIATION KEY table with columns: ABBR., DESCRIPTION. Lists abbreviations for floor levels (AFF, C, GFI, N.C., NIC, N.O., SV, TYP, UON), conduit, normally closed, not in contract, normally open, solenoid valve, typical, and unless otherwise noted.

CONTRACTOR ABBREVIATION KEY table with columns: ABBR., DESCRIPTION. Lists abbreviations for various contractors including asbestos abatement, civil, contracting officer's representative, electrical, fire protection, general, mechanical, plumbing, technology, and temperature controls.

ELECTRICAL RENOVATION NOTES: THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO LIGHTING, POWER, AND SYSTEMS. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS... 2. NOT ALL EXISTING BUILDING DOCUMENTS, AND STAFF, VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING... 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION... 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND FIELD NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING... 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS... 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS... 7. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.



ELECTRICAL SHEET INDEX table with columns: E000, E001, E002, E003, E004, E005, E006, E007, E008, E009, E010, E011, E012, E013, E014, E015, E016, E017, E018, E019, E020, E021, E022, E023, E024, E025, E026, E027, E028, E029, E030, E031, E032, E033, E034, E035, E036, E037, E038, E039, E040, E041, E042, E043, E044, E045, E046, E047, E048, E049, E050, E051, E052, E053, E054, E055, E056, E057, E058, E059, E060, E061. Lists sheet numbers and their corresponding titles.

ELECTRICAL GENERAL NOTES: 1. (L#) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E007. 2. 'NL' INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT. 3. 'SE' INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER. 4. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT. 5. REFER TO SHEET E007 FOR LUMINAIRE SCHEDULE. 6. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC PLANT LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTACT DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER SPECIFIC LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS. SENSOR EITHER IN PRINT OR APPROVED ELECTRONIC FORM. LUMINAIRE KEY: F1 = FIXTURE TAG, C1 = CIRCUIT NUMBER, a = SWITCH DESIGNATION, NL = SUBSCRIPT (IF APPLICABLE), Z = ZONE DESIGNATION. 'IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1/1/a/NL. DEVICE KEY: A = MOUNTING (IF APPLICABLE), 1 = CIRCUIT NUMBER. 'IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A/1. ELECTRICAL MOUNTING SUBSCRIPT KEY: F = MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH, C = MOUNT AT CEILING, H = MOUNT ORIENTED HORIZONTALLY, L = MOUNT IN CASEWORK, M = MOUNT IN MODULAR FURNITURE, R = MOUNT IN SURFACE RACEWAY, EWC = ELECTRIC WATER COOLER.

ELECTRICAL INSTALLATION NOTES: 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ABA STANDARDS FOR ACCESSIBLE DESIGN, REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION. 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PHASES AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. 3. LIFE SAFETY, CRITICAL EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH. 4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. 5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE. 6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING. 7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED. 8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED. 9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 8" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE. 10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL FLOOR INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT. 11. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF AND ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS. 13. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB. 14. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. 15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS. 16. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 03 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLEWIRE, AND EQUIPMENT.

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Revisions table with columns: Revisions, Date. Includes a table for tracking changes to the drawing.

CONSULTANT logo for IMEG. 2602 10TH STREET, DES MOINES, IA 50319. 515.334.9900. PROJECT # 1904249.04. Includes a reference scale in inches.

ARCHITECT/ENGINEER OF RECORD logo for ANDERSON. 13605 1st Ave. N. #100 Plymouth, MN 55441. P 763.412.4000 | F 763.412.4090 | ae-mn.com. Anderson Engineering of Minnesota, LLC | Proj # 16584.

STAMP: PROFESSIONAL ENGINEER, STATE OF IOWA, KRISTEN L. SPINA, 2/14/2025.

Office of Construction and Facilities Management logo. U.S. Department of Veterans Affairs logo.

Drawing Title: ELECTRICAL COVERSHEET. Approved: [Signature]

Phase: BID DOCUMENTS. FULLY SPRINKLERED.

Project Title: CONSTRUCT NEW SPS. Location: Sioux Falls, SD. Issue Date: 02/14/2025. Checked: JMK. Drawn: JDR.

Project Number: 438-460. Building Number: 5. Drawing Number: E000.

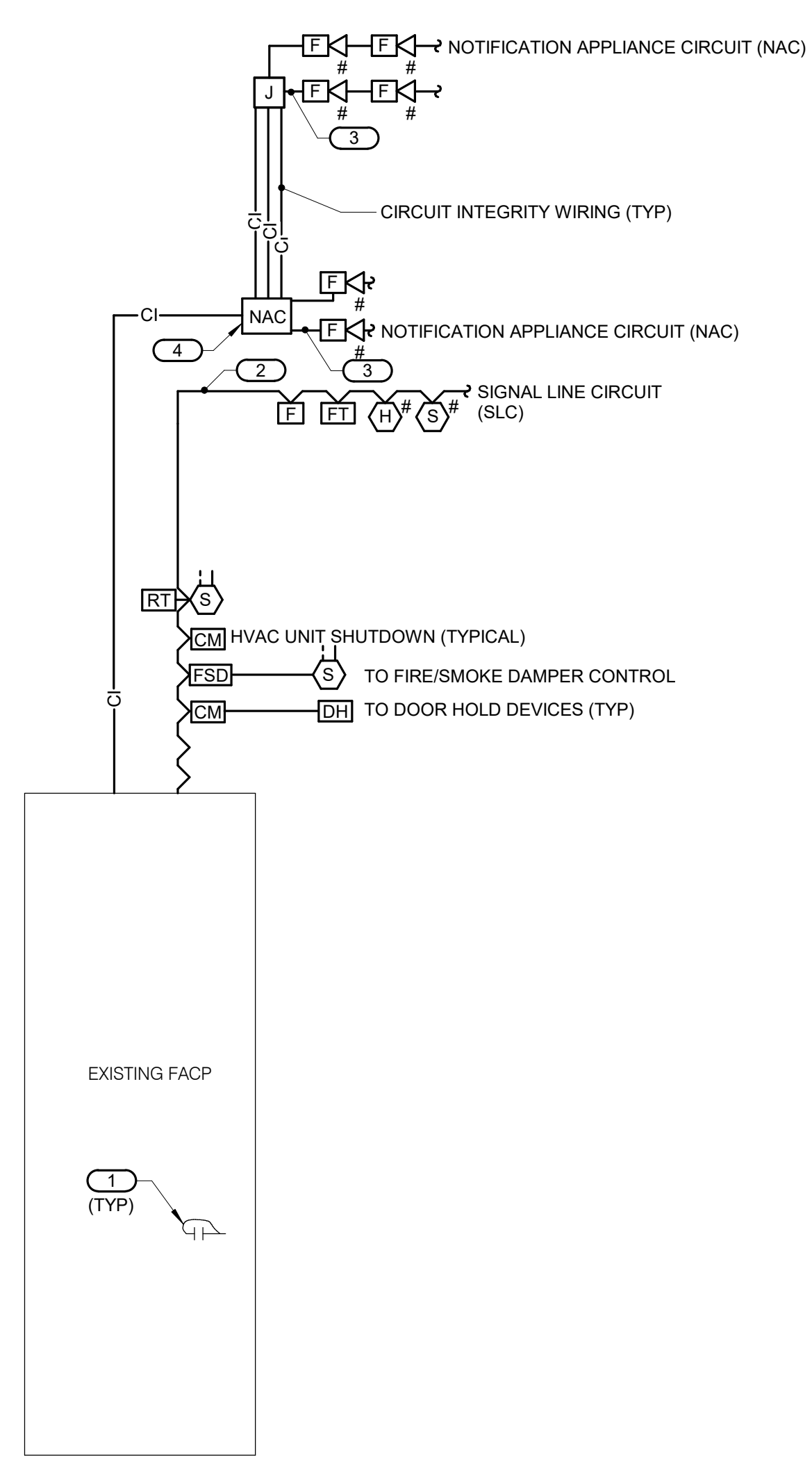
ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING WG = WIRE GUARD IS REQUIRED WP = WEATHERPROOF A = ATRIUM CA = CLEAN AGENT SYSTEM CR = COMPUTER ROOM E = ELEVATOR RECALL D = HVAC CONTROL DH = DOOR HOLD RELEASE DIPS = DUAL INTERLOCK PREACTION SYS FD = FIRE DOOR RELEASE MP = MEDICAL PROCEDURE S = SLEEPING / PATIENT ROOM SW = STAIRWELL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
[Symbol]	NAC-#	28 31 00	NOTIFICATION APPLIANCE CIRCUIT PANEL
[Symbol]	AMP-#	28 31 00	AMPLIFIER RACK, FIRE ALARM
[Symbol]	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
[Symbol]	FA-122	28 31 00	BLANK - PHOTOELECTRIC FIRE ALARM DUCT SMOKE DETECTOR
[Symbol]	ASSD-#	28 31 50	# = EQUIP OR SYSTEM FIRE ALARM AIR SAMPLING SMOKE DETECTION
[Symbol]	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR BLANK = COMBINATION RATE OF RISE / FIXED TEMP AT = ATTIC (LOCATED IN) F = FIXED TEMP RC = RATE COMPENSATED X - EXPLOSION PROOF
[Symbol]	FA-151	28 31 00	FIRE ALARM FLAME DETECTOR, CEILING OR WALL MOUNT
[Symbol]	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
[Symbol]	FA-131	28 31 00	FIRE ALARM MANUAL PULL STATION W/ COVER
[Symbol]	FA-200	28 31 00	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
[Symbol]	FA-263	28 31 00	ELECTRIC BELL FOR SPRINKLER SYSTEM
[Symbol]	FA-210	28 31 00	AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED M = MINI-HORN S = SLEEPING / PATIENT ROOM
[Symbol]	FA-211	28 31 00	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
[Symbol]	FA-220	28 31 00	AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED
[Symbol]	FA-221	28 31 00	COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
[Symbol]	FA-241	28 31 00	FIRE ALARM REMOTE INDICATOR
[Symbol]	FA-242	28 31 00	FIRE ALARM REMOTE INDICATOR W/ TEST SWITCH
[Symbol]	FA-260	28 31 00	FIRE ALARM FLOW SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS KB = KNOX BOX
[Symbol]	FA-261	28 31 00	FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM
[Symbol]	FA-160	28 31 00	BLANK = REFER TO PLANS PIV = POST INDICATOR VALVE FIRE ALARM ADDRESSABLE MONITOR MODULE

SEQUENCE OF OPERATION		PANEL/INDICATOR ARM INDICATION	PANEL/INDICATOR SUPERVISORY INDICATION	PANEL/INDICATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	ELECTRIC SPRINKLER BELL SEQUENCE	SPRINKLER PREACTION ACTIVATION SEQUENCE	SMOKE DAMPER CONTROL SEQUENCE	AHU & MECHANICAL FAN SHUTDOWN SEQUENCE
SYSTEM INPUTS										
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION			X							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRRREGULARITY				X						
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X						
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X						
FIRE ALARM PANEL MANUAL FIRE DRILL		X			X	X				
MANUAL PULL STATION		[FT] [F]	X		X	X				
SMOKE DETECTOR		[S] # [H] #	X		X	X				
HEAT DETECTOR		[H] # [H] # [H] #	X		X	X				
SPRINKLER SYSTEM FLOW SWITCH		[MM] [FS]	X		X	X	X	X		
SPRINKLER SYSTEM CABINET MONITOR		[MM] [TS]		X						
SMOKE DETECTOR FOR HVAC CONTROL		[S] # [S] #	X						X	X

NOTES:
1. ALL SEQUENCE OF OPERATION SHALL MATCH EXISTING FIRE ALARM SEQUENCE IN FACILITY. COORDINATE REQUIREMENTS PRIOR TO PROGRAMMING.

1 FIRE ALARM OPERATION MATRIX
NO SCALE

2 FIRE ALARM RISER
NO SCALE

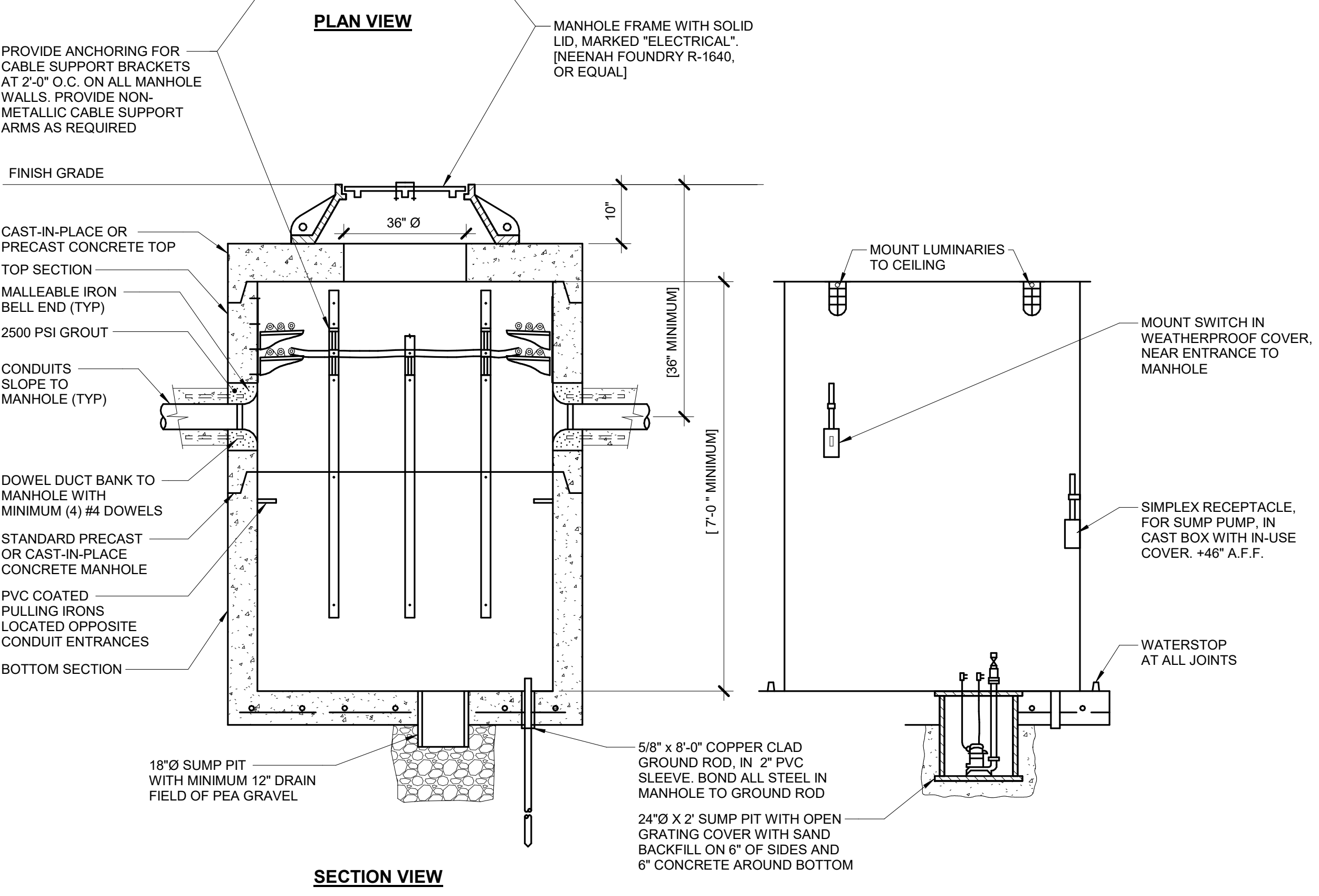
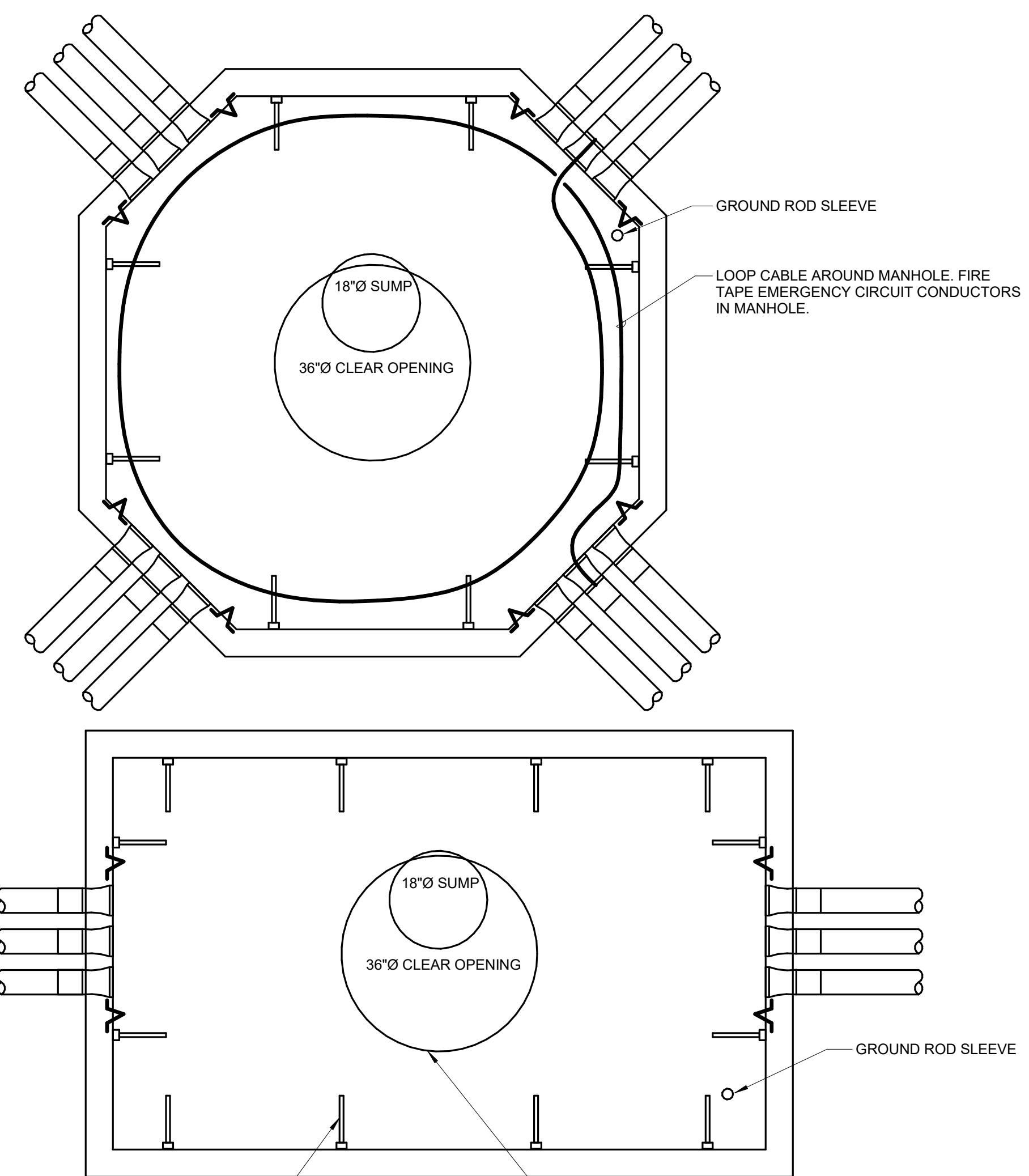


- NOTES:
- THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
 - THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
 - ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 - ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.
 - PARTIAL EVACUATION OR RELOCATION OF OCCUPANTS IS THE STANDARD OPERATING PROCEDURE FOR THIS FACILITY IN THE EVENT OF AN ALARM. THEREFORE, ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- KEYNOTES: [Symbol]
- REPRESENTATIVE OF PROGRAMMABLE I/O POINTS IN THE PANEL OR A GENERAL SYSTEM TROUBLE/ALARM CONTACT CONNECTED TO THE SYSTEM NOTED. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
 - REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
 - REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
 - PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.

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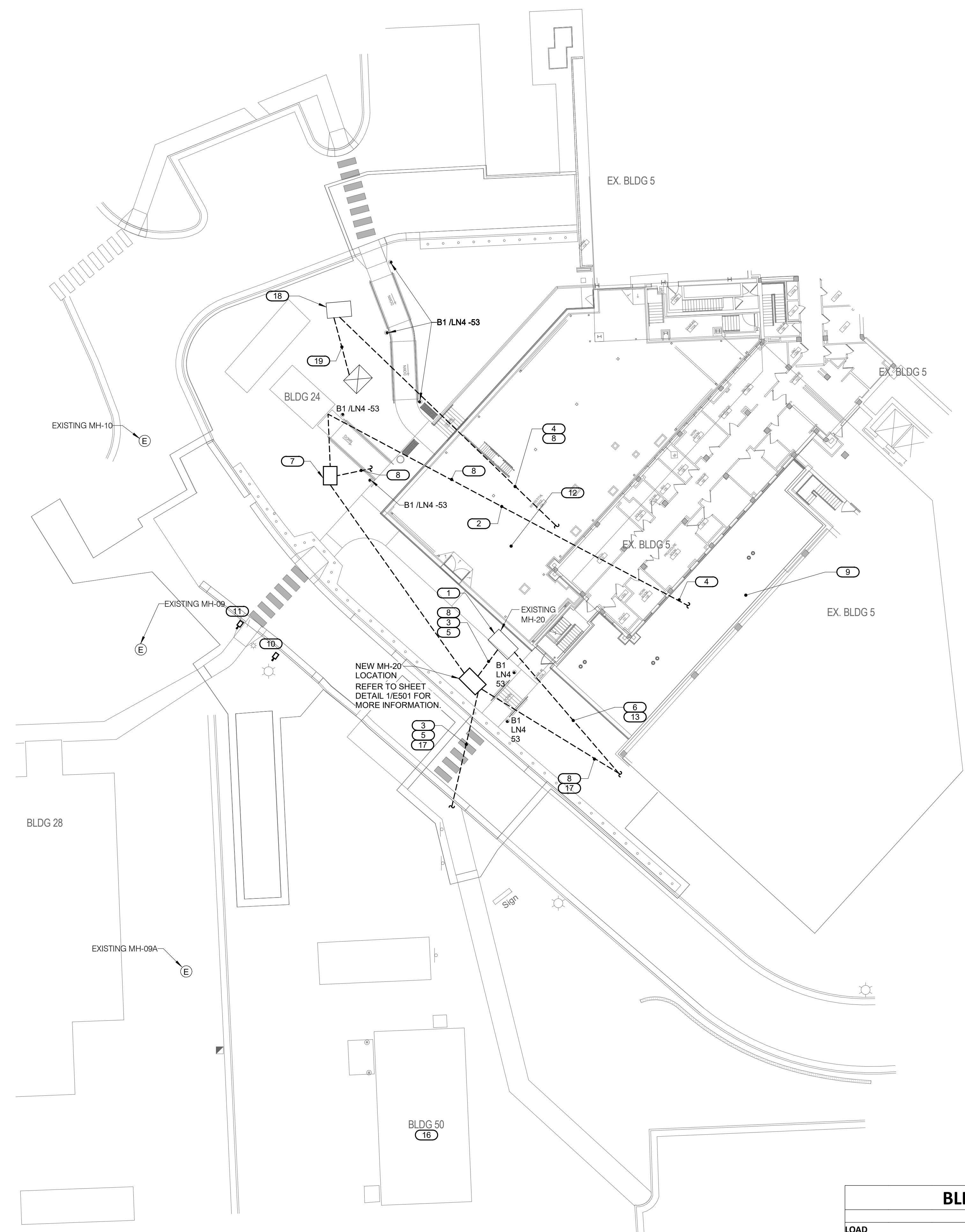
Revisions: Date:	CONSULTANT 2602 100TH STREET DES MOINES, IA 50325 515.334.9900 FAX: 515.334.9908 www.imegcorp.com PROJECT # 19004249.04 <small>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. THIS DRAWING AND DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2025 IMEG CORP.</small>	ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584	STAMP KRISTEN SPRUA 2/14/2025	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title ELECTRICAL FIRE ALARM COVERSHEET	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
					Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD.	Building Number 5
					Issue Date 02/14/2025	Checked JMK	Drawn JDR	Drawing Number FA001

- SHEET NOTES:**
- ALL EXISTING FEEDER AND CONTROL WIRING LOCATIONS WERE OBTAINED FROM EXISTING DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS.
 - SITE VISIT REQUIRED PRIOR TO BID DATE FOR ON SITE REVIEW OF EXISTING MANHOLE MH-20. COORDINATE VISITATION WITH COR.
- KEYNOTES:** (E)
- EXISTING MANHOLE MH-20 TO BE REMOVED. ALL FEEDERS AND CONTROL WIRING ROUTED THROUGH MANHOLE TO BE REPLACED FROM POINT OF ORIGIN TO EXISTING LOADS TO ACCOMMODATE NEW CONSTRUCTION.
 - REMOVE AND REPLACE ALL EXISTING FEEDERS, CONTROL CABLING, AND CONDUIT BETWEEN BUILDING 24 AND BUILDING 5 TO ACCOMMODATE NEW CONSTRUCTION. REFER TO FEEDER SCHEDULE ON THIS SHEET FOR MORE INFORMATION. EXISTING FEEDERS ARE CONCRETE ENCASED.
 - FEEDERS AND CONTROL WIRING ROUTED THROUGH MH-20 BETWEEN BUILDING 50 AND BUILDING 5 BELOW GRADE PIPE SPACE TO BE REPLACED TO ACCOMMODATE NEW CONSTRUCTION. RACEWAYS ARE CONCRETE ENCASED.
 - EXISTING FEEDERS ROUTED BETWEEN BUILDING 24 AND BUILDING 5 BELOW GRADE PIPE SPACE TO BE REPLACED TO ACCOMMODATE NEW CONSTRUCTION. RACEWAYS ARE CONCRETE ENCASED.
 - ALL FEEDERS AND CONTROL WIRING ROUTED THROUGH MH-20 BETWEEN BUILDING 50 AND BUILDING 5 TO BE REPLACED TO ACCOMMODATE NEW CONSTRUCTION. ALL RACEWAYS ARE CONCRETE ENCASED. REFER TO E-501 FOR MORE INFORMATION.
 - FEEDERS AND CONTROL WIRING BETWEEN BLDG 50 AND THE EMERGENCY SYSTEM ELECTRICAL ROOM OF THE OPERATING SUITE BUILDING SHALL BE REMOVED. RACEWAY MAY BE CONCRETE ENCASED. REFER TO E-501 FOR MORE INFORMATION.
 - PROVIDE NEW MANHOLE SIZED PER NEC FOR REPLACEMENT OF EXISTING FEEDERS AND CABLES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
 - NEW FEEDERS AND CONTROL WIRING, AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, PORTIONS OF SEVERAL RACEWAYS IN PIPE SPACE OF BUILDING 5 SHALL REQUIRE REPLACEMENT DUE TO NEW FOOTING AND BEAMS FOR DEPRESSED FLOOR SLABS IN ROOMS H20A AND H20B. NEW UNDERGROUND RACEWAYS SHALL BE CONCRETE ENCASED WHERE NOT LOCATED BELOW BUILDING. COORDINATE SHUTDOWN AND PHASING WITH COR.
 - PROTECT EXISTING MAIN FACILITY TELEPHONE LINE UNTIL NEW FIBER SERVICE IS ESTABLISHED. COORDINATE WITH TELEPHONE PROVIDER AND COR.
 - REMOVE EXISTING LIGHT POLE FOR RELOCATION. REMOVE EXISTING POLE BASE FOR DEMOLITION. RETAIN AS MUCH OF THE EXISTING RACEWAYS AS POSSIBLE. REMOVE WIRING FROM CONDUIT BACK TO ADJACENT LUMINAIRE IN BOTH DIRECTIONS.
 - INSTALL RELOCATED POLE AND LUMINAIRE APPROXIMATELY 9 FEET TO THE NORTHWEST OF THE PREVIOUS LOCATION. PROVIDE NEW POLE BASE. DIMENSIONS OF POLE BASE SHALL MATCH EXISTING. PROVIDE NEW RACEWAY BETWEEN RELOCATED POLE BASE AND EXISTING WITH NEW WIRING BACK TO ADJACENT LUMINAIRE.
 - EXISTING UNDERGROUND TELEPHONE LINE TERMINATES IN MECHANICAL ROOM D28 TO BE REMOVED. CONTRACTOR TO FIELD VERIFY ALL LINES INVOLVED AND DETERMINE IF LINES ARE INACTIVE. REMOVE IF INACTIVE. IF LINE IS ACTIVE THEN REPLACE LINE WITH NEW AS REQUIRED. THE TERMINATION LOCATION IN ROOM D28 SHOWS ONE 25-50 PAIR TELEPHONE CABLE, ONE COAXIAL CABLE AND TWO INDIVIDUAL TWISTED PAIR CABLES.
 - EXISTING CONCRETE ENCASED FEEDERS FOR PANELS "P3G-G01", "P3G-G02", "P3G-G03" AND ASSOCIATED CONTROL WIRING TO BE REMOVED AND REPLACED WITH NEW FROM POINT OF ORIGIN TO EXISTING PANEL LOCATION. ROUTE NEW FEEDERS, CABLING AND CONDUIT THROUGH NEW MANHOLE LOCATION. REFER TO E-501 FOR MORE INFORMATION.
 - NOT USED.
 - NOT USED.
 - EXISTING PARALLELING SWITCHGEAR MSG-1 LOCATED IN THIS BUILDING.
 - NEW CONDUCTORS, CABLING, AND CONDUIT FROM POINT OF ORIGIN TO EXISTING LOAD LOCATION ROUTED THROUGH NEW MAN-HOLE LOCATION. REFER TO E-501 FOR SIZING INFORMATION.
 - EXISTING MANHOLE MH-08.
 - EXISTING FEEDER TO BLDG 24 PAD MOUNTED TRANSFORMER.



- NOTES:**
- MANHOLE SHALL BE DESIGNED TO ASHSTO HS-20 LIVE LOADS. SUBMITTAL SHALL SHOW DESIGN LOADING AND MATERIAL SPECIFICATIONS FOR SUPPLIED PRODUCTS.

2 ELECTRICAL MANHOLE DETAIL
NO SCALE



1 SITE PLAN - ELECTRICAL
1" = 20'-0"

BLDG 24 - BLDG 5 FEEDER DEMOLITION & REPLACEMENT			
LOAD	BLDG & ROOM LOCATION	FLOOR LOCATION	CONDUCTOR QTY. & SIZE
DISTRIBUTION PANEL DPIC	BLDG 5	ATTIC	2 SETS OF (4) #4/0 & (1) #1/0 GND
PANEL SL	BLDG 5	ATTIC	(3) 500 KCMIL & (1) #2 GND
PANEL EBB, PANEL EEE	BLDG 5	MULTIPLE FLOORS	(4) #1/0 & (1) #6 GND
UNKNOWN - 1-1/2" C	UNKNOWN - FIELD VERIFICATION REQUIRED	UNKNOWN	MULTIPLE #10 SINGLE CONDUCTORS
UNKNOWN 1" C	UNKNOWN - FIELD VERIFICATION REQUIRED	UNKNOWN	600V AND DATA/COMM. CABLING
UNKNOWN 2" C	UNKNOWN - FIELD VERIFICATION REQUIRED	UNKNOWN	UNKNOWN

Revisions:	Date:

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STAMP

KRISTEN L. SPINA
2/14/2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
NEW ELECTRICAL SITE PLAN

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

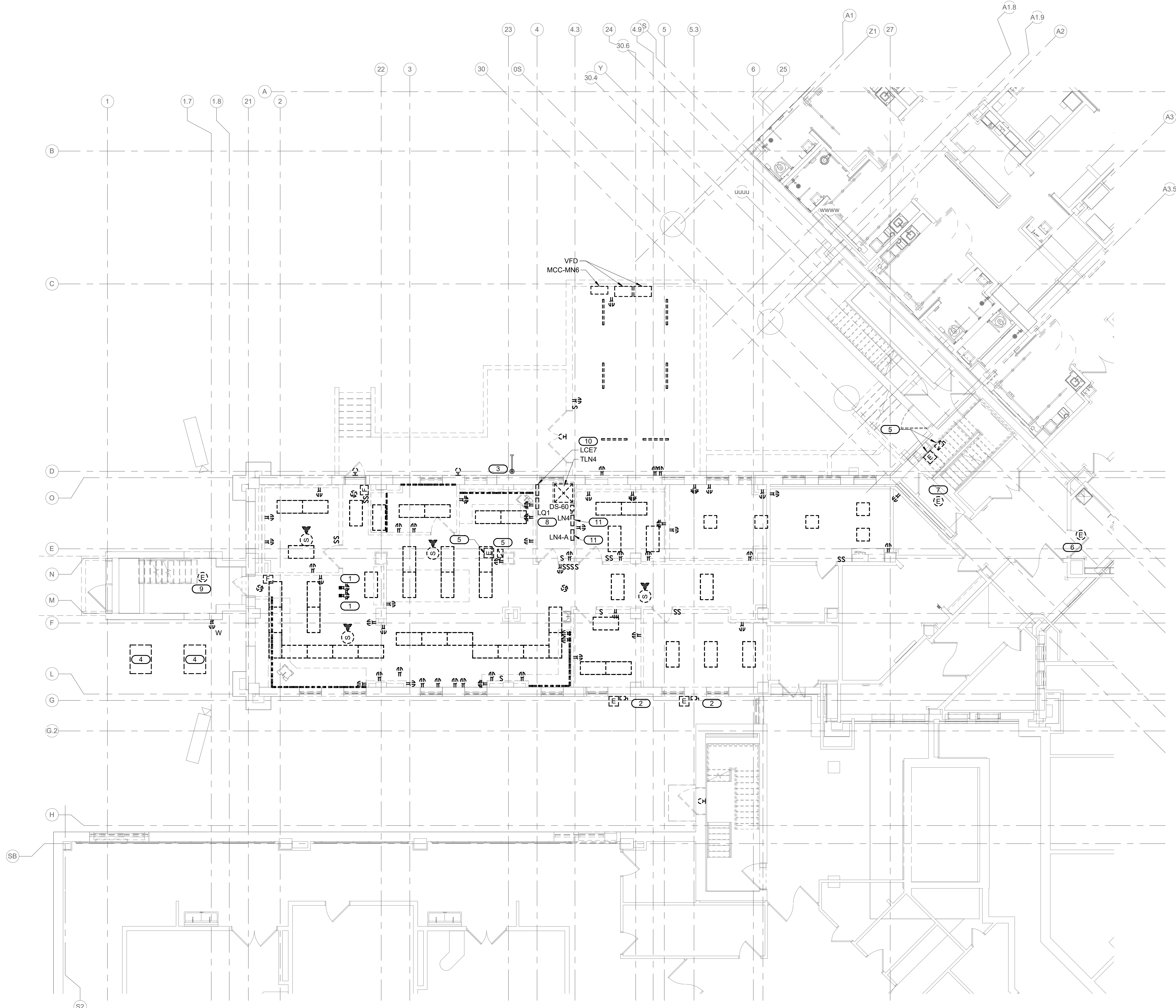
Checked
JMK

Drawn
JDR

Project Number
438-460

Building Number
5

Drawing Number
ES-100



- KEYNOTES:**
1. DEVICES INSTALLED TO FLOOR MOUNTED STRUT STAND. CIRCUITING ROUTED THROUGH FLOOR FROM BELOW FLOOR PIPE SPACE. REMOVE ALL JUNCTION BOXES.
 2. DISCONNECTS, AND WIRING FOR MECHANICAL EQUIPMENT BACK TO SOURCE.
 3. EXISTING DOWN CONDUCTOR FOR LIGHTNING PROTECTION SYSTEM. MODIFY AS NEEDED TO ACCOMMODATE NEW CONSTRUCTION. REFER TO EP121 FOR MORE INFORMATION.
 4. REMOVE ELECTRICAL CONNECTIONS AND ALL ASSOCIATED WIRING TO AIR COOLED CONDENSING UNITS (ACCU) FROM EXTERIOR CONNECTION TO EACH UNIT AT GRADE TO FIFTH FLOOR ATTIC PANEL. CHILLER PANEL. RETAIN CIRCUIT BREAKERS IN PANEL. CHILLER PANEL FOR CONNECTIONS TO RELOCATED ACCUS.
 5. REMOVE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT LOCATED IN PIPE SPACE BELOW. REMOVE COMBINATION STARTER AND ALL ASSOCIATED WIRING FROM CONTROLLER/FAN LOCATION TO PANEL 'LN4-A'.
 6. REMOVE ELECTRICAL CONNECTION TO EXHAUST FAN EF-10. REMOVE ALL ASSOCIATED WIRING FROM FAN LOCATION TO MOTOR CONTROL CENTER MN-7.
 7. REMOVE ELECTRICAL CONNECTIONS TO EXHAUST FANS IN LEVEL 5 ATTIC AREA. VERIFY WHICH FANS WILL BE REMOVED WITH THE MECHANICAL CONTRACTOR. REMOVE ALL ASSOCIATED WIRING FROM FAN MOTORS TO STARTERS/CONTROLLERS OR MOTOR CONTROL CENTER AS APPLICABLE. AND FROM CONTROLLERS TO POWER SOURCE ORIGIN. FIELD VERIFY FAN CONTROLLER CONNECTIONS AND LOCATIONS. REFER TO EP151 FOR MORE INFORMATION.
 8. REMOVE EXISTING PANEL 'L01'. EXTEND ALL EXISTING TO REMAIN CIRCUITS TO NEW PANEL 'OL3'. REFER TO E500 AND EP101 FOR MORE INFORMATION.
 9. REMOVE ELECTRICAL CONNECTIONS TO EXHAUST FAN AT TOP OF STAIR TOWER ROOF. REMOVE CIRCUITING FROM FAN LOCATION TO PANEL OF ORIGIN.
 10. REMOVE EXISTING PANEL 'LCE7'. EXTEND ALL EXISTING TO REMAIN CIRCUITS TO NEW PANEL 'LCE7'. REFER TO E500 AND EP101 FOR MORE INFORMATION.
 11. REMOVE EXISTING PANEL 'LN4' AND 'LN4-A'. EXTEND ALL EXISTING TO REMAIN CIRCUITS TO NEW PANEL 'LN4'. REFER TO E500 AND EP101 FOR MORE INFORMATION.

1 GROUND LEVEL FLOOR DEMOLITION PLAN - ELECTRICAL
 1/8" = 1'-0"

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 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
GROUND LEVEL FLOOR DEMOLITION PLAN - ELECTRICAL

Approved:

Phase
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Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

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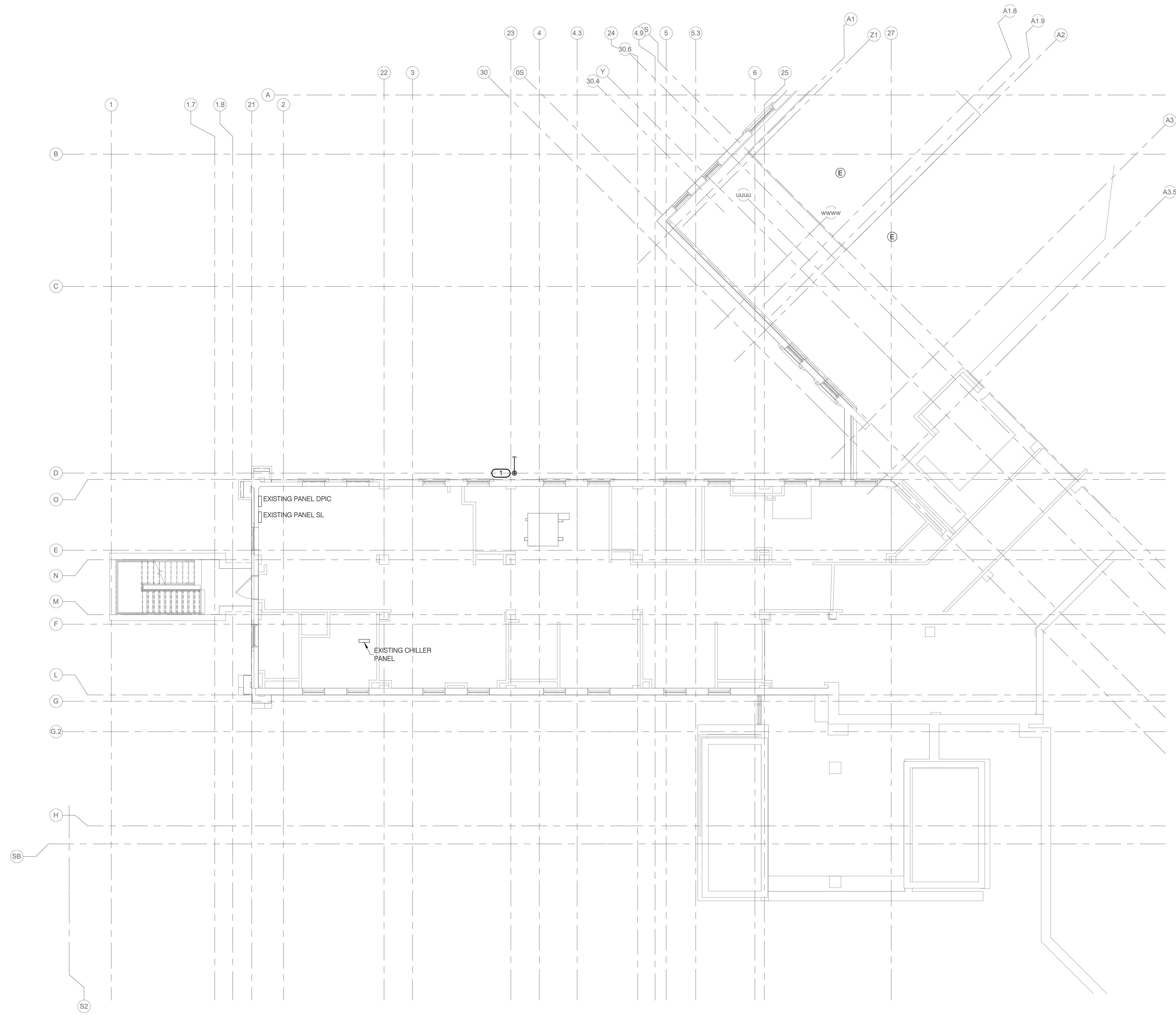
Drawn
JDR

Project Number
438-460

Building Number
5

Drawing Number
ED101

KEYNOTES: **(Z)**
 1. EXISTING DOWN CONDUCTOR FOR LIGHTNING PROTECTION SYSTEM. MODIFY AS NEEDED TO ACCOMMODATE NEW CONSTRUCTION. REFER TO EP121 FOR MORE INFORMATION.



1 ROOF DEMOLITION PLAN - ELECTRICAL
 1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 ROOF DEMOLITION PLAN - ELECTRICAL

Approved:

Phase
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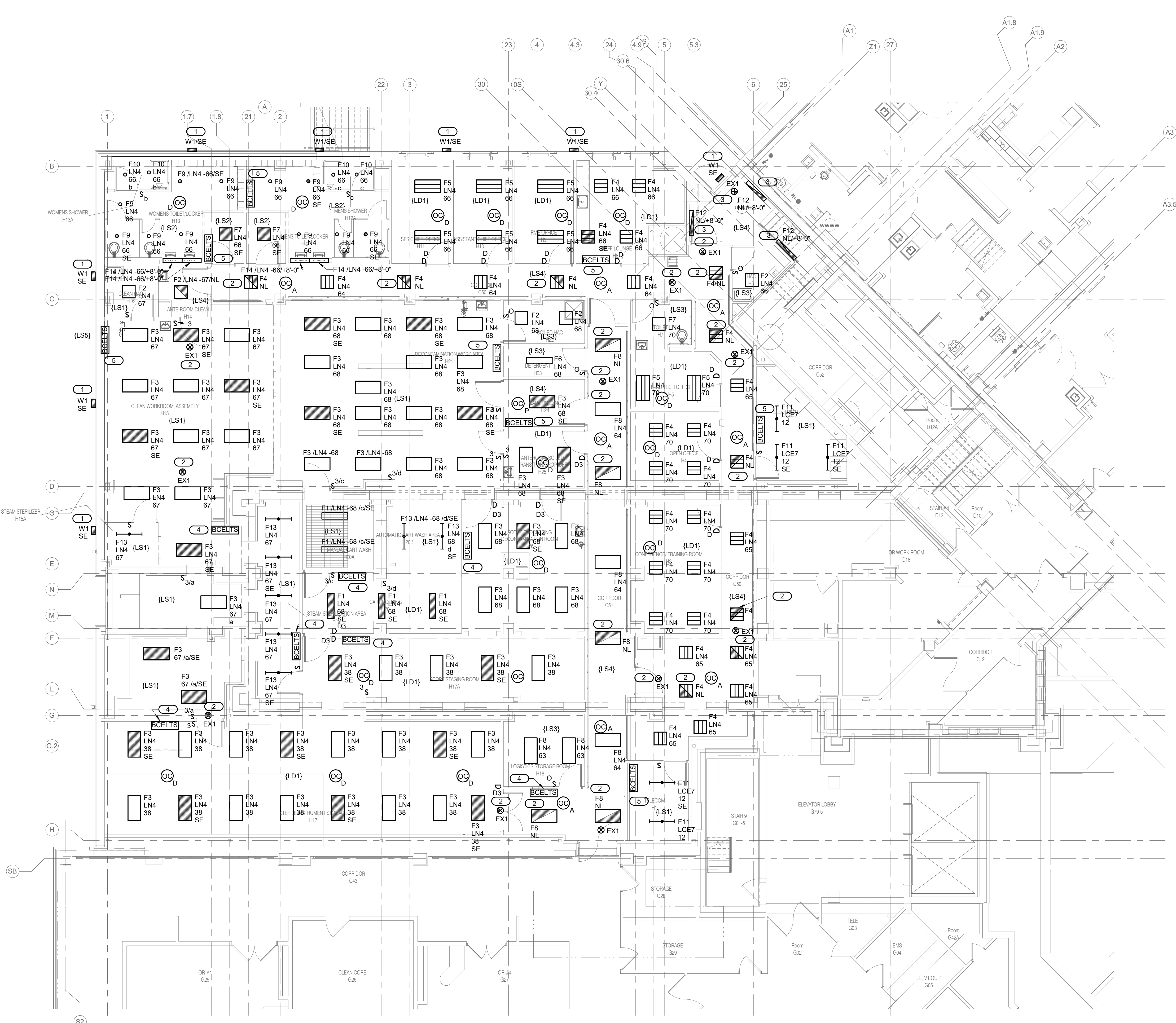
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Drawing Number
 ED121

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- KEYNOTES:**
- CONNECT ALL EXTERIOR LIFE SAFETY LIGHT FIXTURES TO ONE EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSE2.
 - CONNECT ALL CORRIDORS LIFE SAFETY LIGHT FIXTURES TO EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSE2. INSTALL NEW 20/1P CIRCUIT BREAKER IF REQUIRED. MATCH NEW BREAKER WITH EXISTING PANEL CHARACTERISTICS.
 - CONNECT ALL STAIR CASE LIFE SAFETY LIGHT FIXTURES TO EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSE2. INSTALL NEW 20/1P CIRCUIT BREAKER IF REQUIRED. MATCH NEW BREAKER WITH EXISTING PANEL CHARACTERISTICS.
 - CONNECT 'BCELT'S' DEVICES TO EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSE2. INSTALL NEW 20/1P CIRCUIT BREAKER IF REQUIRED. MATCH NEW BREAKER WITH EXISTING PANEL CHARACTERISTICS.
 - CONNECT 'BCELT'S' DEVICES TO EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSE2. INSTALL NEW 20/1P CIRCUIT BREAKER IF REQUIRED. MATCH NEW BREAKER WITH EXISTING PANEL CHARACTERISTICS.

1 GROUND LEVEL FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

Revisions:	Date:

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 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 GROUND LEVEL FLOOR PLAN - LIGHTING

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 JMK

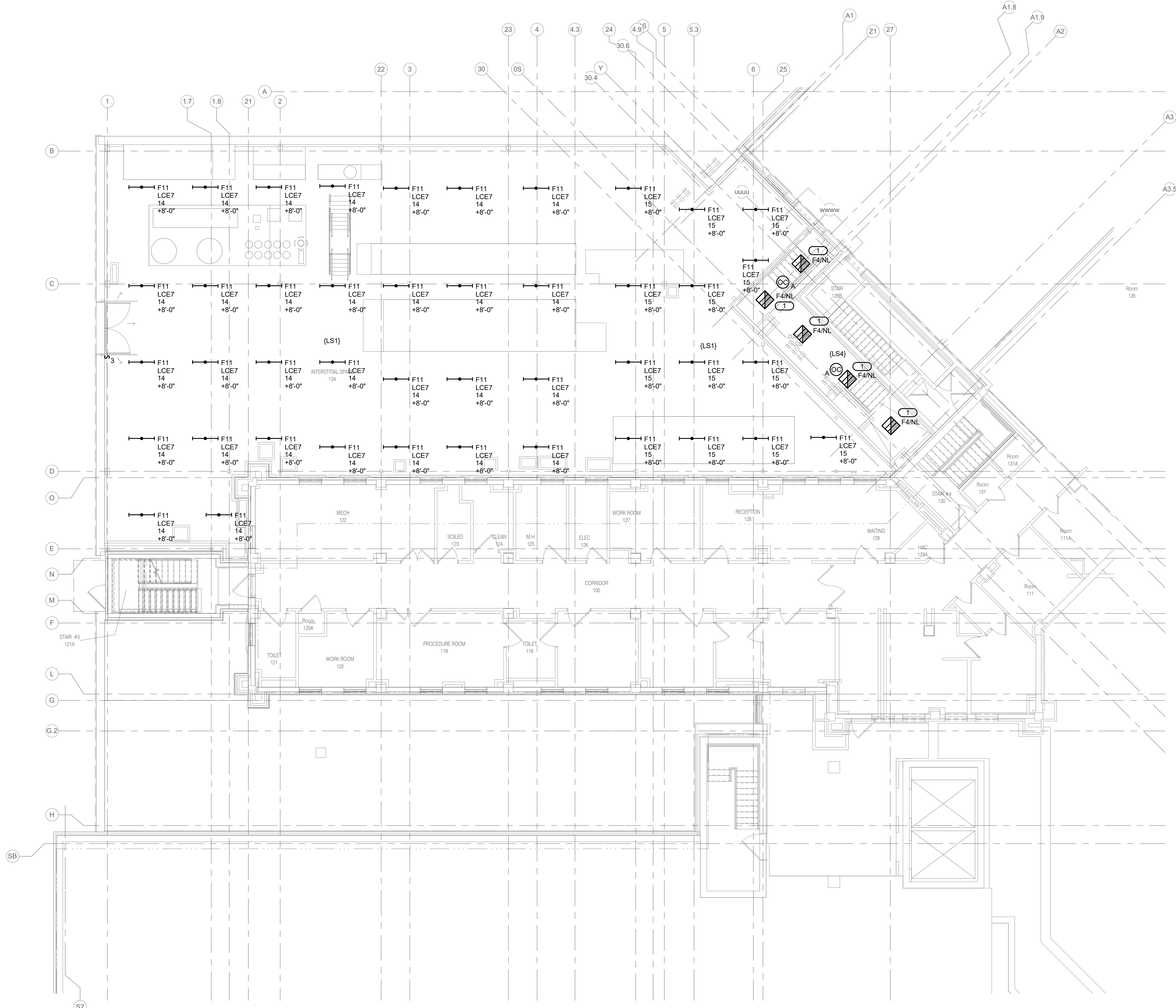
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 EL101

SHEET NOTES:
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KEYNOTES: **#**
 1. CONNECT ALL STAIR CASE LIFE SAFETY LIGHT FIXTURES TO EXISTING 20A/1P SPARE CIRCUIT IN PANEL LSEZ.



1 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

BIM 360://19004249.04_VA-Wash DC-VA Sioux Falls New SPS_C.rvt
 2/14/2025 7:23:11 PM
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Revisions:	Date:

CONSULTANT

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 2892 100TH STREET
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 www.imegcorp.com
 PROJECT # 19004249.04

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 Anderson Engineering of Minnesota, LLC | Proj # 16684

STAMP

KRISTEN L. SPINA
 PROFESSIONAL ENGINEER
 LICENSE NO. 1038
 STATE OF IOWA
 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - LIGHTING

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 JMK

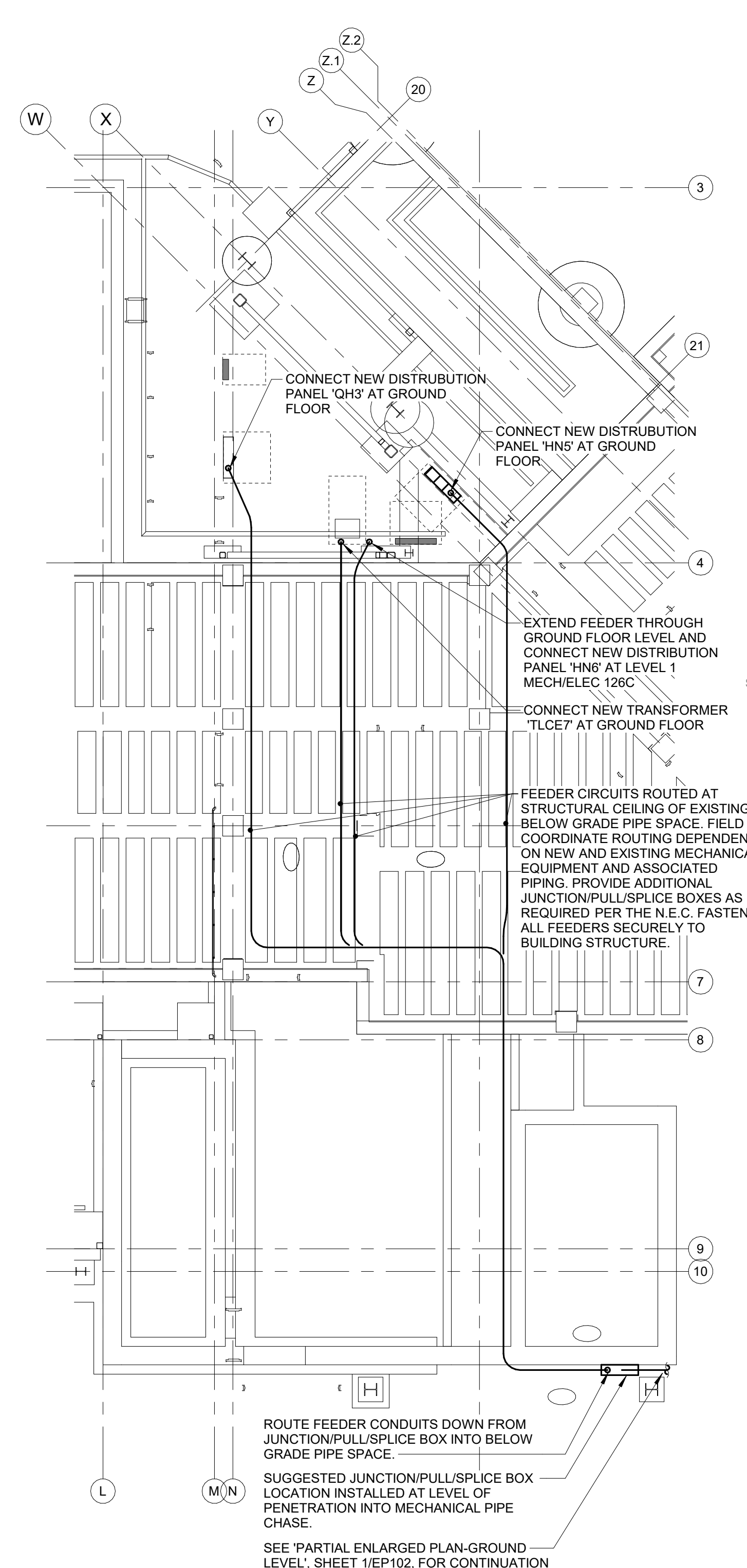
Drawn
 JDR

Project Number
 438-460

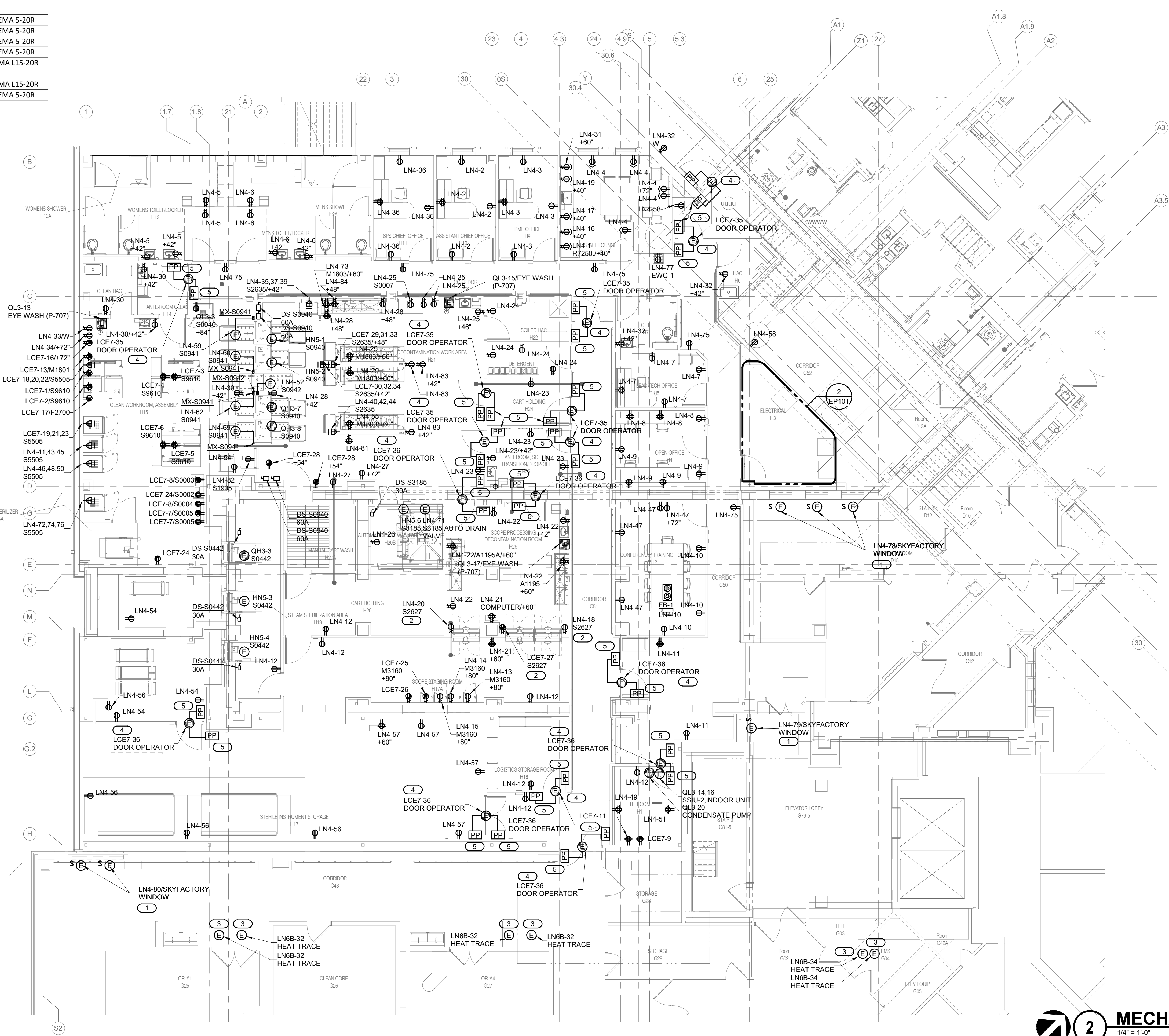
Building Number
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Drawing Number
 EL111

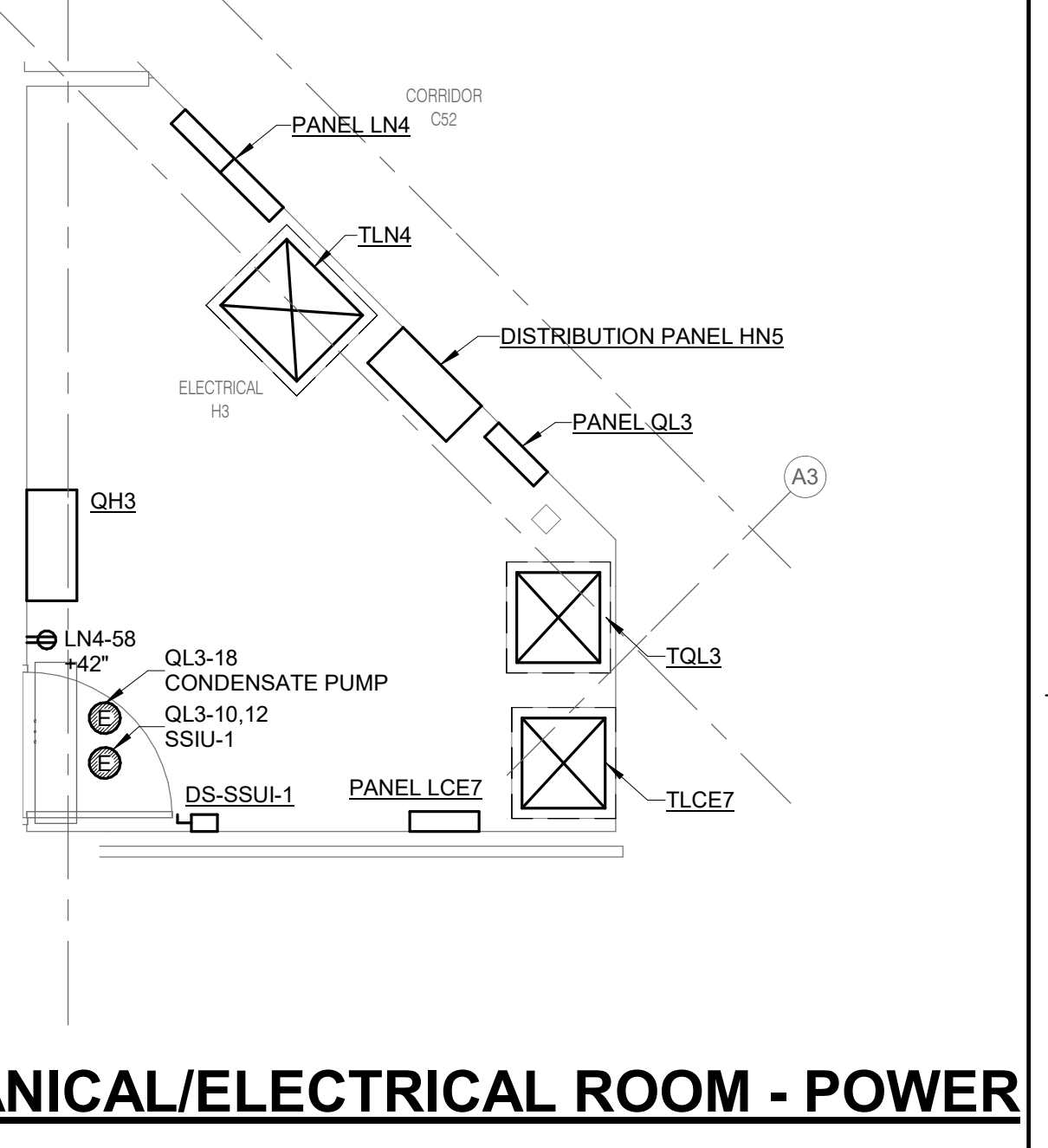
EQUIP. NUMBER	DESCRIPTION	VOLTAGE	PHASE	AMPS	VA	TYPE	RECEPTACLE
F2700	BAR CODE READER	120V	1		200VA	PLUG	NEMA 5-20R
M1801	COMPUTER WITH FLAT PANEL MONITOR	120V	1		300VA	PLUG	NEMA 5-20R
M1803	WALL MOUNTED COMPUTER WORKSTATION	120V	1		300VA	PLUG	NEMA 5-20R
M3160	MEDIVATOR	120V	1	0.7A	85VA	PLUG	NEMA 5-20R
R7250	REFRIGERATOR	120V	1		800VA	PLUG	NEMA 5-20R
S0002	READER 390	120V	1		200VA	PLUG	NEMA 5-20R
S0003	SCANNER CHARGING STATION	120V	1		600VA	PLUG	NEMA 5-20R
S0004	INCUBATOR	120V	1		500VA	PLUG	NEMA 5-20R
S0005	BATTERY CHARGING STATION	120V	1		500VA	PLUG	NEMA 5-20R
S0007	ULTRASONIC CLEANER	120V	1		1000VA	PLUG	NEMA 5-20R
S0046	STERIS AMSCO DRYING CABINET	120V	1		1500VA	PLUG	NEMA 5-20R
S0442	AMSCO 600 STEAM STERILIZER	480V	3	7A	5820VA	E-CONN.	
S0940	STERIS AMSCO 7052HP WASHER / DISINFECTOR	480V	3	34.5A	28682VA	E-CONN.	
S0941	STERIS WASHER / DISINFECTOR CONVEYOR SYSTEM	120V	1	12.5A	1500VA	PLUG	NEMA 5-20R
S0942	STERIS MOTORIZED RETURN CONVEYOR SYSTEM WITH DOOR	120V	1	12.5A	1500VA	PLUG	NEMA 5-20R
S1905	STERIS AUTOMATED PASS THROUGH WINDOW 34"x45"	120V	1	1A	120VA	PLUG	NEMA 5-20R
S2627	ADVANTAGE PLUS PASS-THRU ENDOSCOPE REPROCESSOR	120V	1	10A	1200VA	PLUG	NEMA 5-20R
S2635	INNOVAVE ULTRASONIC IRRIGATOR & CLEANER	208V	3	15A	5403VA	PLUG	NEMA L15-20R
S3185	STERIS VISION 1377 CART AND UTENSIL WASHER	480V	3	13.5A	11224VA	E-CONN.	
S5505	STERIS AMSCO V-PRO MAX LOW TEMP STERILIZER	208V	3	16A	5764VA	PLUG	NEMA L15-20R
S9610	AMSCO PREP AND PACK WORK STATION 36" X 72" (ELECTRIC)	120V	1	15A	1800VA	PLUG	NEMA 5-20R



3 PIPE BASEMENT FLOOR PLAN - POWER
1/8" = 1'-0"



1 GROUND LEVEL FLOOR PLAN - POWER
1/8" = 1'-0"

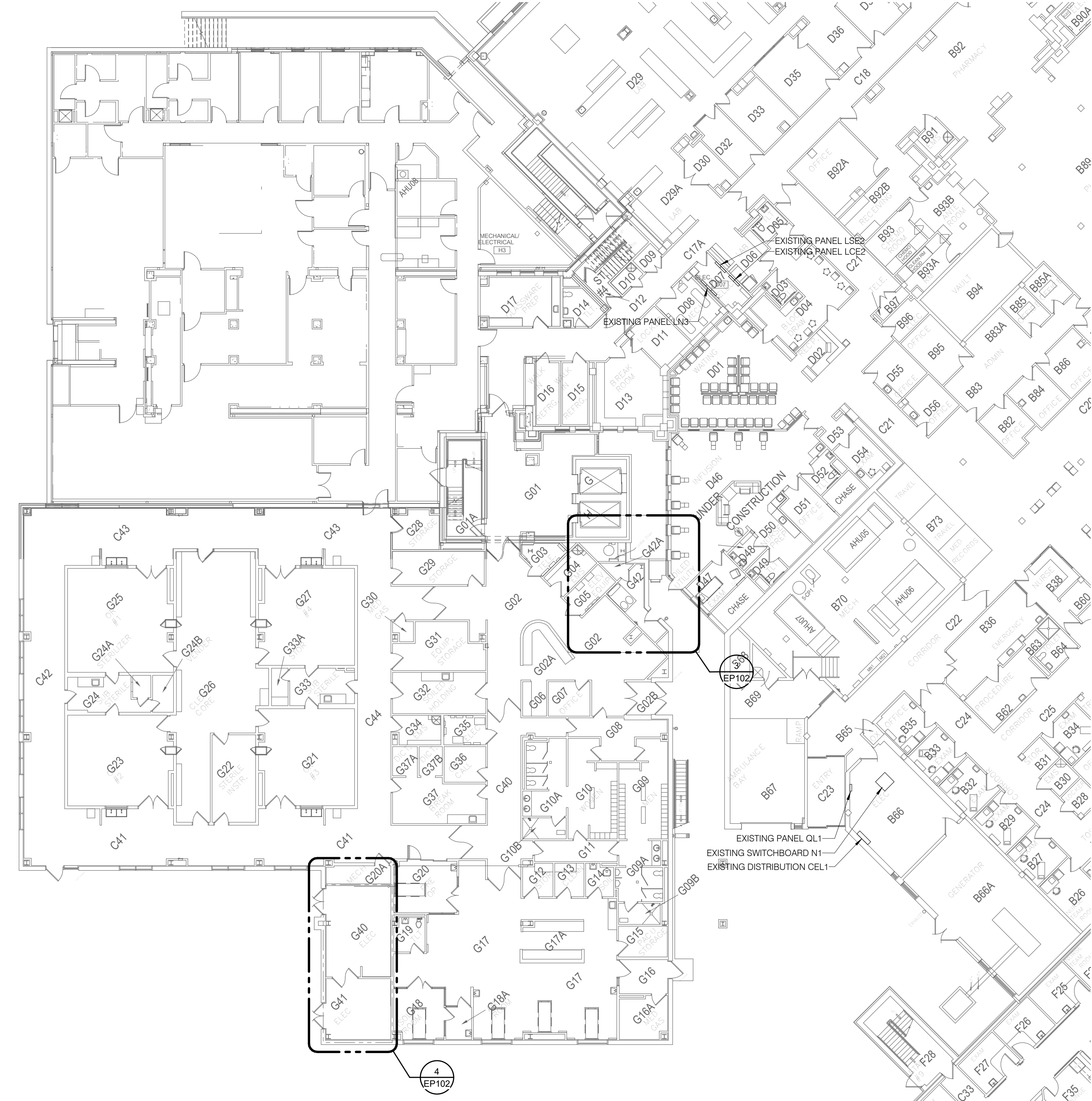
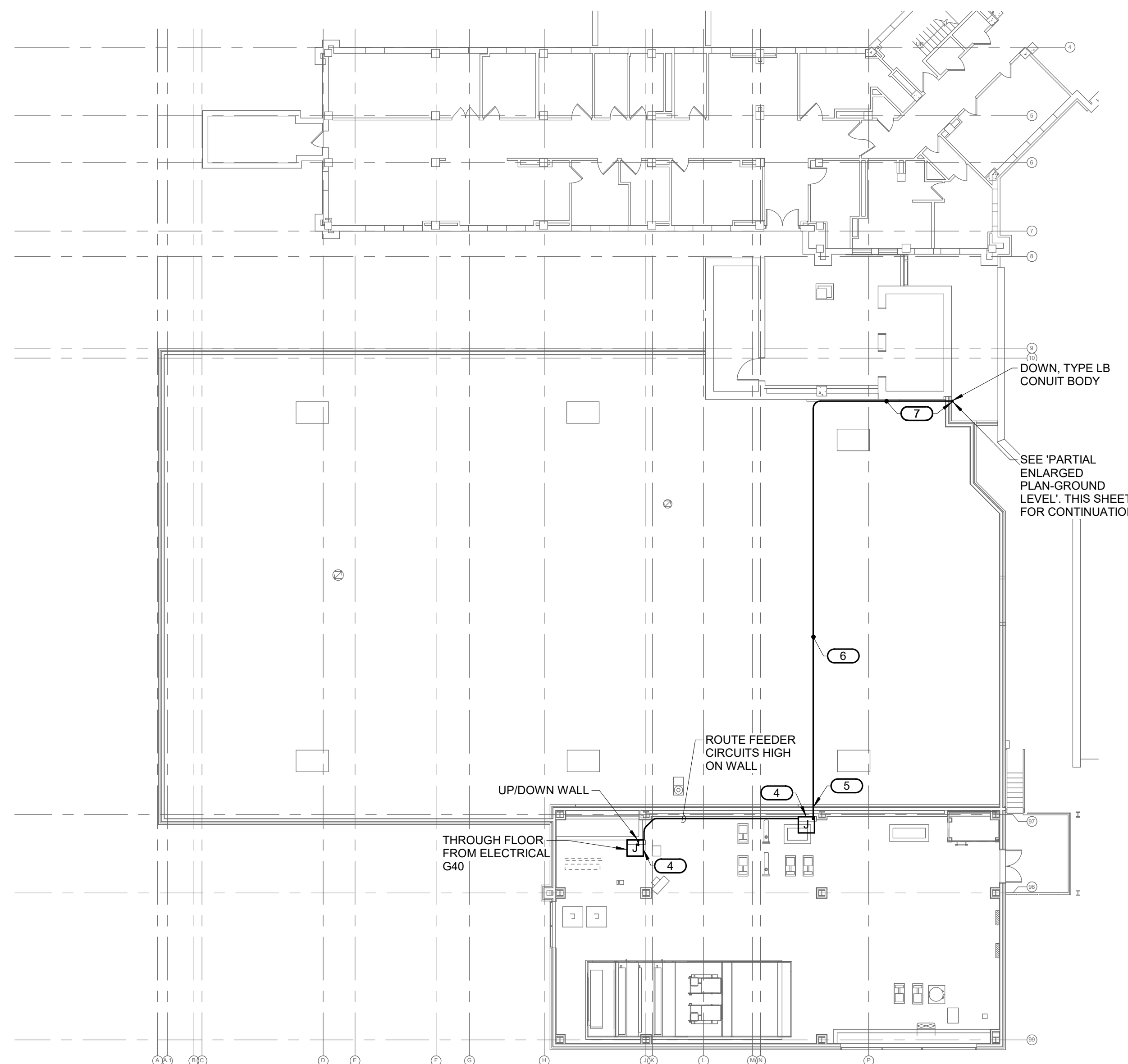


2 MECHANICAL/ELECTRICAL ROOM - POWER
1/4" = 1'-0"

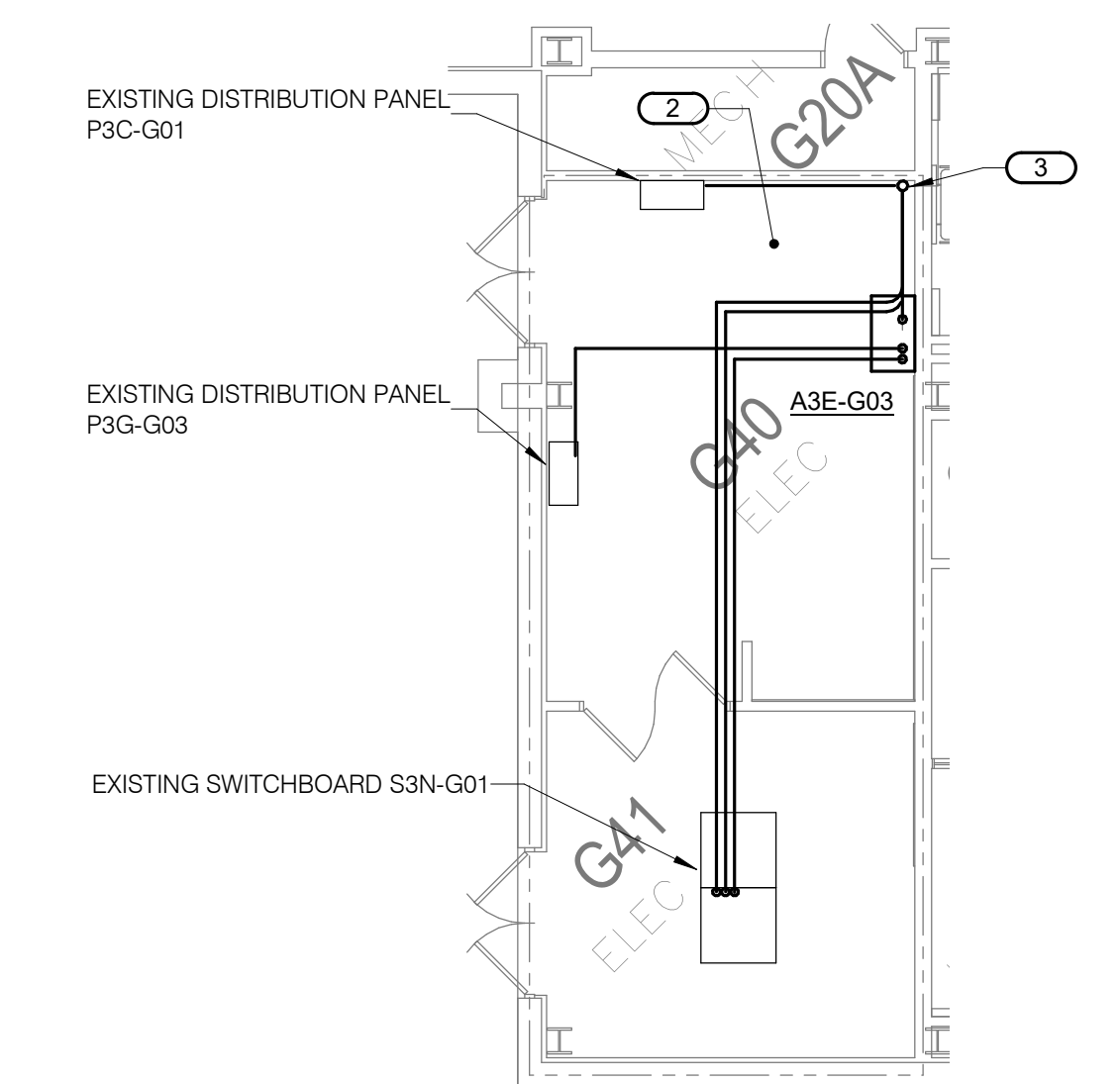
- SHEET NOTES:**
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- KEYNOTES:**
- INSTALL DIGITAL CAMERA SCREEN AT REMOVED WINDOW LOCATION. SEE ARCHITECTURAL DRAWINGS FOR INFORMATION ON ROUGH OPENING WITH HEADER POCKET. FROM LOCATION ABOVE OR AT HEADER POCKET PROVIDE SURFACE METAL RACEWAY WIREMOLD OR EQUAL TO CONTROL STATION LOCATED ADJACENT TO WINDOW. PROVIDE SURFACE METAL RACEWAY FOR SPEAKER WIRES FROM HEADER POCKET LOCATION UP TO CEILING SPACE. LOCATE AND MOUNT SPEAKERS IN GRID CEILING OR PROVIDE SURFACE ENCLOSURE FOR SPEAKERS. PROVIDE TOGGLE SWITCH NEAR EVERY WINDOW TO SERVE AS DISCONNECT MEANS FOR POWER TO LUMINAIRE. PROVIDE CONTROL STATION FOR WAITING AREA WINDOW LUMINAIRE IN RECEPTION AREA.
 - PROVIDE NEMA 15-20R GFI PROTECTED RECEPTACLE LOCATED IN THE WALL BEHIND ACCESS PANEL. COORDINATE EXACT LOCATIONS OF ACCESS PANEL WITH ARCHITECT AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
 - ELECTRICAL CONNECTION FOR HEAT TRACE IN STORM PIPING. APPROXIMATELY 15 FEET OF HEAT TRACE LOCATED INSIDE STORM PIPING. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF ROOF DRAINS AND ROOF DRAIN BASINS. REFER TO DETAIL 3440 FOR HEAT TAPE CONTROL DIAGRAM.
 - POWER OPERATED DOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
 - DOOR PUSH PAD OPERATOR PROVIDED BY G.C. AND INSTALLED BY E.C. INSTALL CONDUIT AND CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS.

Revisions: 1 Date:	CONSULTANT 2802 100TH STREET DES MOINES, IA 50325 515.334.9900 FAX: 515.334.9908 WWW.IMEGPROJ.COM PROJECT # 1904249.04 <small>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. NO DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2025 IMEG CORP.</small>	ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584	STAMP KRISTEN SPRUA PROFESSIONAL ENGINEER IOWA 2/14/2025	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title GROUND LEVEL FLOOR PLAN - POWER	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460	
					Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD.	Drawing Number EP101	
						Issue Date 02/14/2025	Checked JMK	Drawn JDR	

3 PARTIAL ENLARGED GROUND LEVEL FLOOR PLAN - POWER
1/8" = 1'-0"



- KEYNOTES:**
1. SUGGESTED JUNCTION/PULL/SPICE BOX LOCATION INSTALLED AT LEVEL OF PENETRATION INTO MECHANICAL PIPE CHASE. FEEDER CIRCUITS ORIGINATING FROM ELECTRICAL ROOM G40 ARE NOT PERMITTED TO BE ROUTED THROUGH ANY PORTION OF THE FIRST FLOOR OPERATING SPACE. A SUGGESTED FEEDER CIRCUIT ROUTING IS SHOWN. THAT ROUTING CONSISTS OF FOUR FEEDERS FOR DISTRIBUTION PANELS 'D41', 'D42', 'D43', AND TRANSFORMER 'T402'. THE CONTRACTOR IS PERMITTED TO FIND AND USE ANOTHER ROUTE CONSIDERING PLACEMENT/USE OF JUNCTION/PULL/SPICE BOXES, CONDUIT BODIES, ACCESS FOR INSTALLATION, SUPPORT, ETC. AFTER COORDINATION WITH THE COR.
 2. SUGGESTED LOCATION OF JUNCTION/PULL/SPICE BOX. COORDINATE MOUNTING WITH MECHANICAL EQUIPMENT AND PIPING. SIZE JUNCTION BOX PER THE N.E.C.
 3. ROUTE FEEDER CIRCUITS FROM THEIR RESPECTIVE PANELS TO CEILING OF ELECTRICAL ROOM. EXTEND THROUGH CEILING INTO MECHANICAL ROOM MEZZANINE ABOVE.
 4. SUGGESTED LOCATION OF JUNCTION/PULL/SPICE BOX. COORDINATE MOUNTING WITH MECHANICAL EQUIPMENT AND PIPING. SIZE JUNCTION BOX PER THE N.E.C.
 5. EXIT PENTHOUSE MECHANICAL ROOM WALL AT A LEVEL ABOVE THE JOINT OF THE ROOF ACCESS DOOR SILL AND THE BRICK WALL PENETRATION SHALL BE MADE BY CORE DRILLING, PATCH AND SEAL WALL PENETRATION TO MAKE WEATHERWATERTIGHT.
 6. ROUTE FEEDERS ACROSS THE EXISTING ROOF AT A HEIGHT LEVEL WITH THE EXIT AT THE WALL OF THE MECHANICAL MEZZANINE. SUPPORT FEEDER CONDUITS PER THE N.E.C. AND FASTEN SECURELY TO THE EXISTING BUILDING STRUCTURE.
 7. EXTEND CONDUITS ALONG THE BRICK WALL AND THROUGH THE ROOF PARAPET WALL. TURN CONDUITS DOWN AFTER PENETRATION OF PARAPET TO LEVEL OF THE GROUND FLOOR CEILING SPACE. PARAPET WALL PENETRATION SHALL BE MADE BY CORE DRILLING, PATCH AND SEAL WALL PENETRATION TO MAKE WEATHERWATERTIGHT.
 8. FEEDER CONDUITS ROUTED DOWN FROM ROOF LEVEL. FASTEN SECURELY TO WALL. ENTER BUILDING HIGH IN MECHANICAL PIPE CHASE. FIELD COORDINATE ENTRY THROUGH WALL INTO CHASE WITH EXISTING PIPING INSTALLED AT THE NORTH WALL.



4 PARTIAL GROUND LEVEL FLOOR PLAN - POWER - G40 & G41
1/8" = 1'-0"

1 OR MEZZANINE/ROOF FLOOR PLAN - POWER
1/16" = 1'-0"

2 PARTIAL GROUND LEVEL FLOOR PLAN - POWER
1/16" = 1'-0"

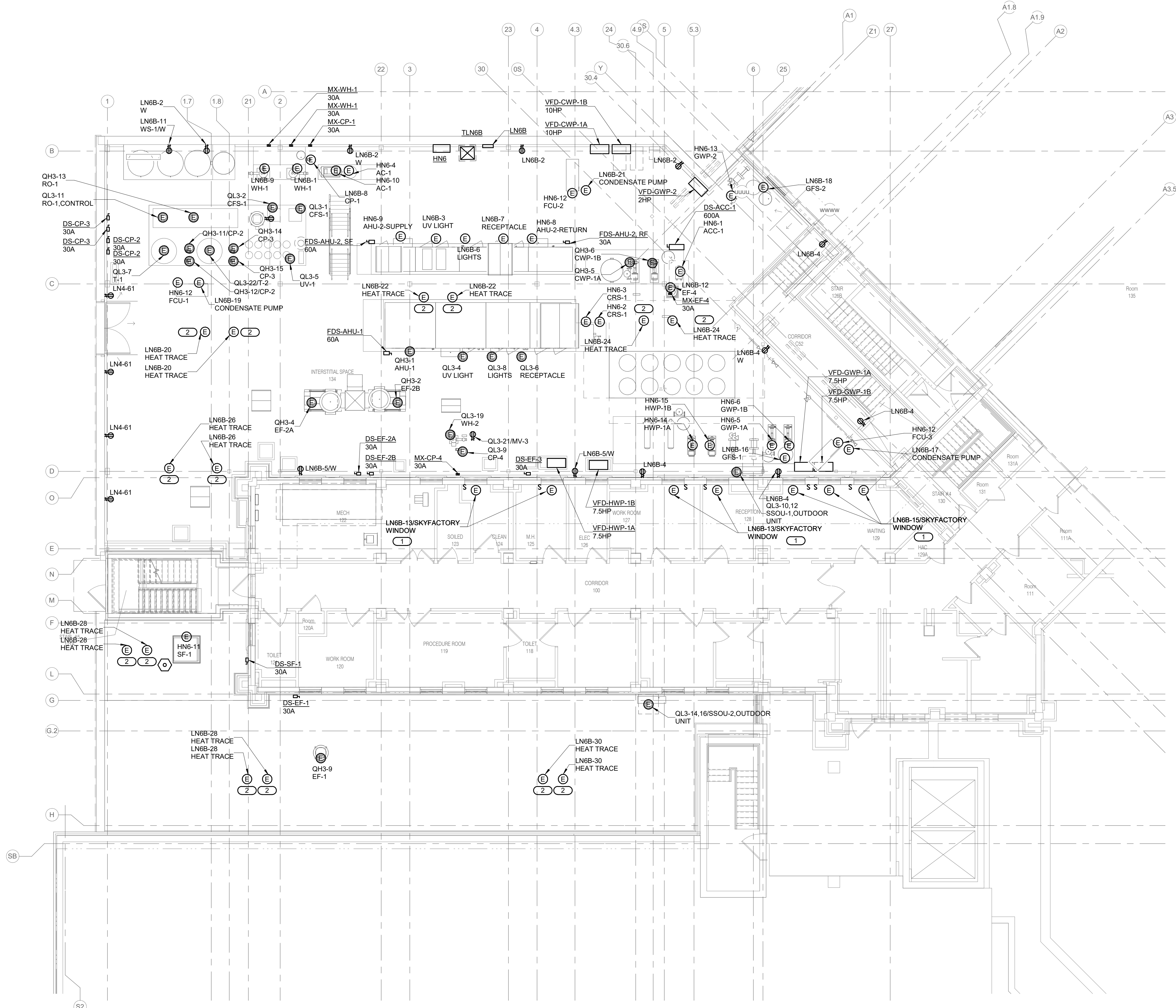
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	Issue Date 02/14/2025	Checked JMK	Drawn JDR	EP102				

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- SHEET NOTES:**
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1 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - POWER
1/8" = 1'-0"

Revisions:	Date:

CONSULTANT

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PROJECT # 19004249.04

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Anderson Engineering of Minnesota, LLC | Proj # 16564

STAMP

KRISTEN L. SPINA
Professional Engineer
IOWA
2/14/2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
INTERSTITIAL/FIRST LEVEL FLOOR PLAN - POWER

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
JMK

Drawn
JDR

Project Number
438-460

Building Number
5

Drawing Number
EP111

A

B

C

D

E

F

SHEET NOTES:

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- E.C. SHALL PROVIDE A CLASS LIGHTING PROTECTION SYSTEM PER NFPA 780 AND U.L. 98A GUIDELINES FOR ENTIRE ROOF AREA, INTEGRATED WITH EXISTING LIGHTING PROTECTION SYSTEM IN PLACE. REFER TO SPECIFICATION 26 41 00 FOR LIGHTING PROTECTION SYSTEM REQUIREMENTS.

KEYNOTES:

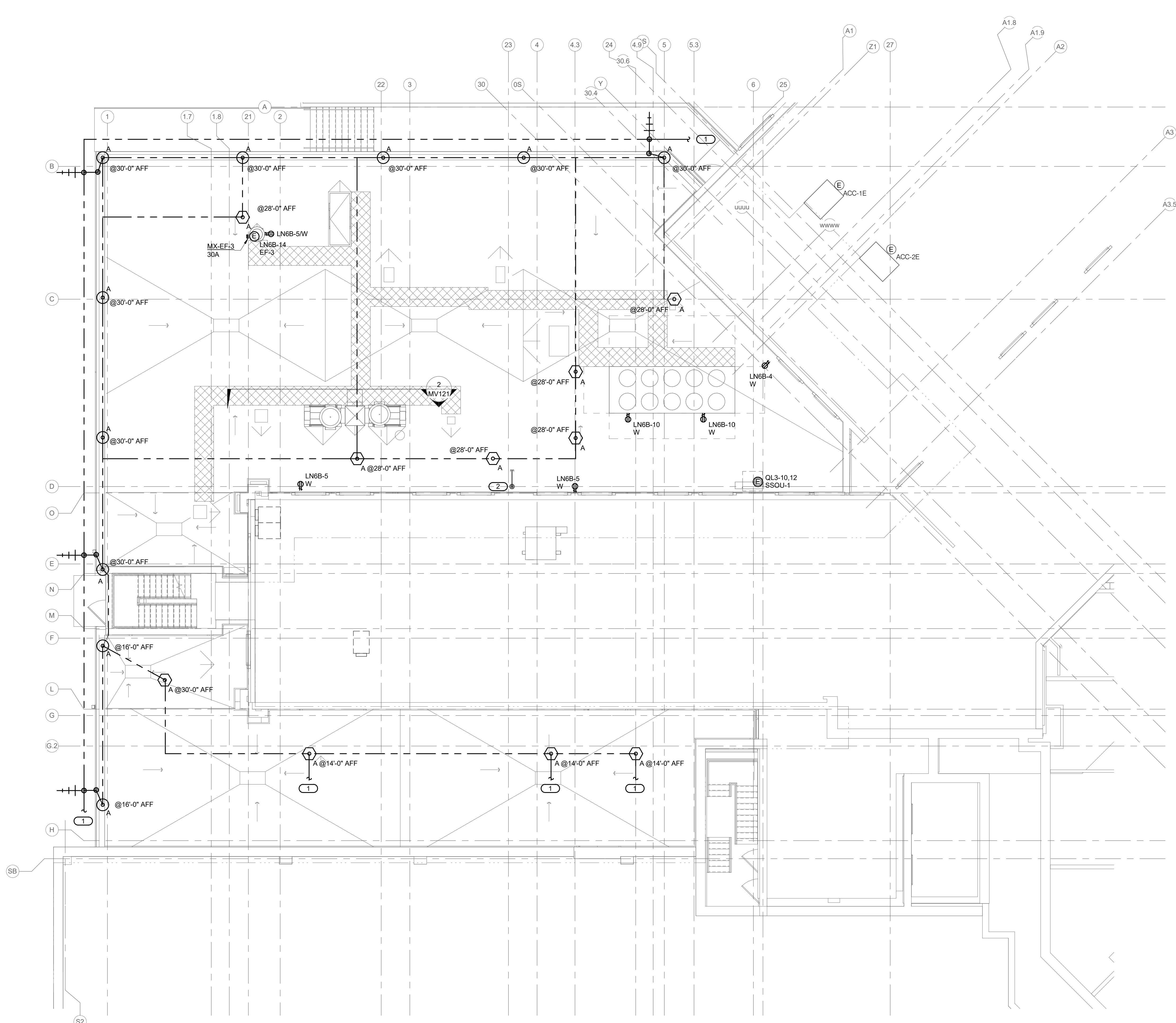
- EXTEND AND CONNECT TO EXISTING LIGHTING PROTECTION SYSTEM.
- EXISTING DOWN CONDUCTOR, REMOVE AND MODIFY TO ACCOMMODATE NEW CONSTRUCTION. EXISTING LIGHTING PROTECTION SYSTEM TO BE EXTENDED TO NEW LIGHTING PROTECTION SYSTEM LOCATED ON ADDITION.

LIGHTNING PROTECTION SYMBOL KEY

SYMBOL:	DESCRIPTION:
	AIR TERMINAL, PARAPET MOUNTED SUBSCRIPT 'A' = 10' ABOVE SURFACE, 'A1' = 12' ABOVE SURFACE
	AIR TERMINAL, FLAT ROOF
	AIR TERMINAL, EQUIPMENT MOUNTED
	LIGHTNING PROTECTION THROUGH PENETRATION
	EXPOSED DOWN CONDUCTOR
	EXPOSED GROUND ROD AND DOWN CONDUCTOR
	LIGHTNING PROTECTION CONDUCTOR

CLASS 1 MATERIAL REQUIREMENTS

TYPE OF CONDUCTOR	COPPER	
	STANDARD	METRIC
AIR TERMINAL, SOLID	MIN. DIAMETER 3/8 IN.	9.5 MM
AIR TERMINAL, TUBULAR	MIN. DIAMETER 5/8 IN. MIN. WALL THICKNESS 0.033 IN.	15.9 MM 0.8 MM
MAIN CONDUCTOR, CABLE	MIN. SIZE EA. STRAND 17 AWG WGT. PER LENGTH 187 LB/1000 FT. CROSS SECT. AREA 57,400 CM.	278 MM 23 MM
MAIN CONDUCTOR, SOLID STRIP	THICKNESS 0.051 IN. WIDTH 1 IN.	1.30 MM 25.4 MM
BONDING CONDUCTOR, CABLE (SOLID OR STRANDED)	MIN. SIZE EA. STRAND 17 AWG CROSS SECT. AREA 26,240 CM.	
BONDING CONDUCTOR, SOLID STRIP	THICKNESS 0.051 IN. WIDTH 1/2 IN.	1.30 MM 12.7 MM



1 ROOF PLAN - POWER
1/8" = 1'-0"

Revisions:

No.	Description	Date

CONSULTANT

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Anderson Engineering of Minnesota, LLC | Proj # 16684

STAMP

KRISTEN L. SPINA
Professional Engineer
IOWA
2/14/2025

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ROOF PLAN - POWER

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
JMK

Drawn
JDR

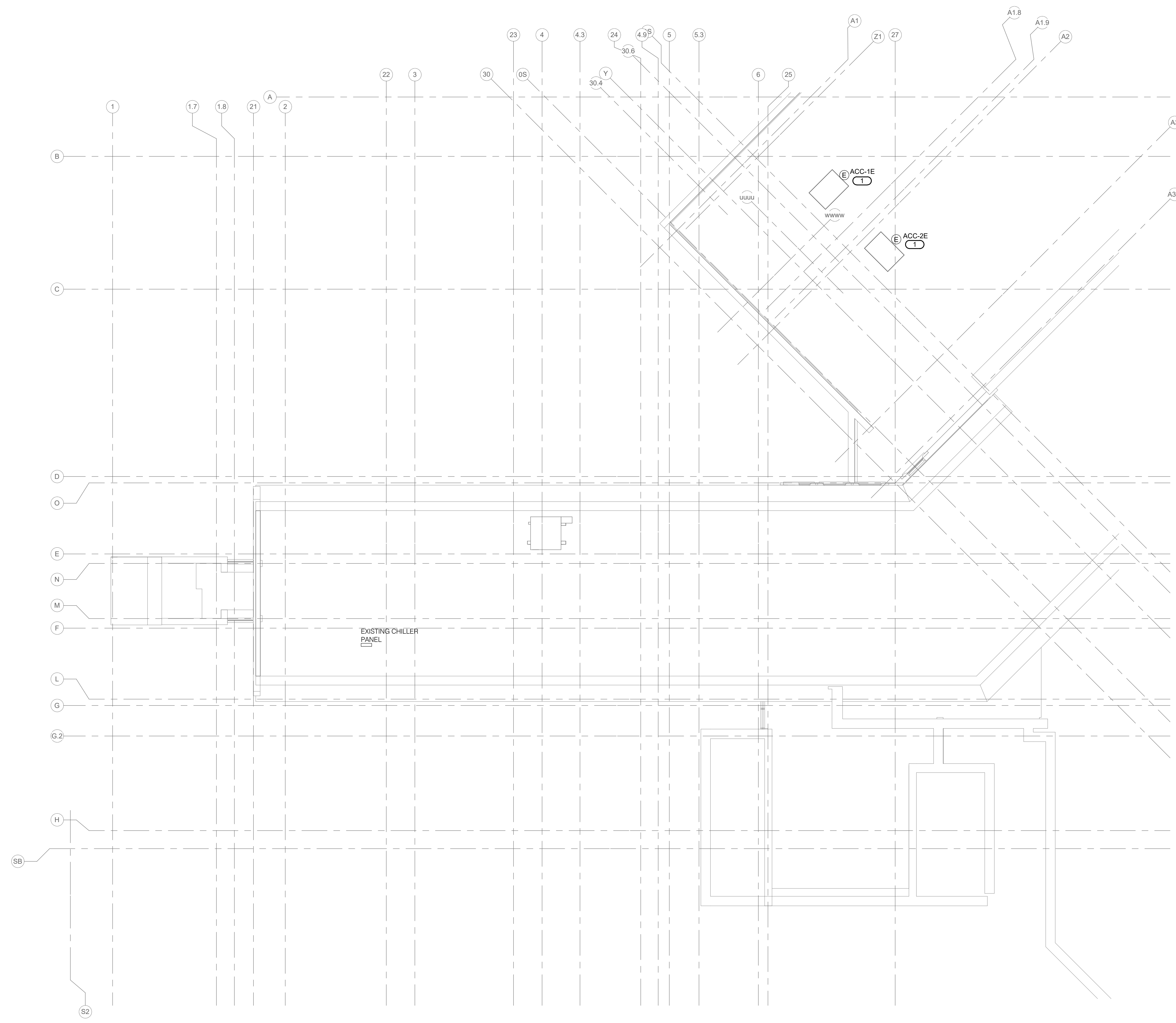
Project Number
438-460

Building Number
5

Drawing Number
EP121

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- KEYNOTES: (B)**
- EXTEND NEW CONDUCTORS AND CONDUIT FROM RELOCATED MECHANICAL UNIT TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING UNIT IN "CHILLER PANEL" ON LEVEL 5.



FIFTH LEVEL FLOOR PLAN - POWER
 1/8" = 1'-0"

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KRISTEN L. SPINA
 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIFTH LEVEL FLOOR PLAN - POWER

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 JMK

Drawn
 JDR

Project Number
 438-460

Building Number
 5

Drawing Number
 EP151

SHEET NOTES:

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1 GROUND LEVEL FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

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 21

Revisions:	Date:

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KRISTEN L. SPINA
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF IOWA
 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 GROUND LEVEL FLOOR PLAN - FIRE ALARM

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 JMK

Drawn
 JDR

Project Number
 438-460

Building Number
 5

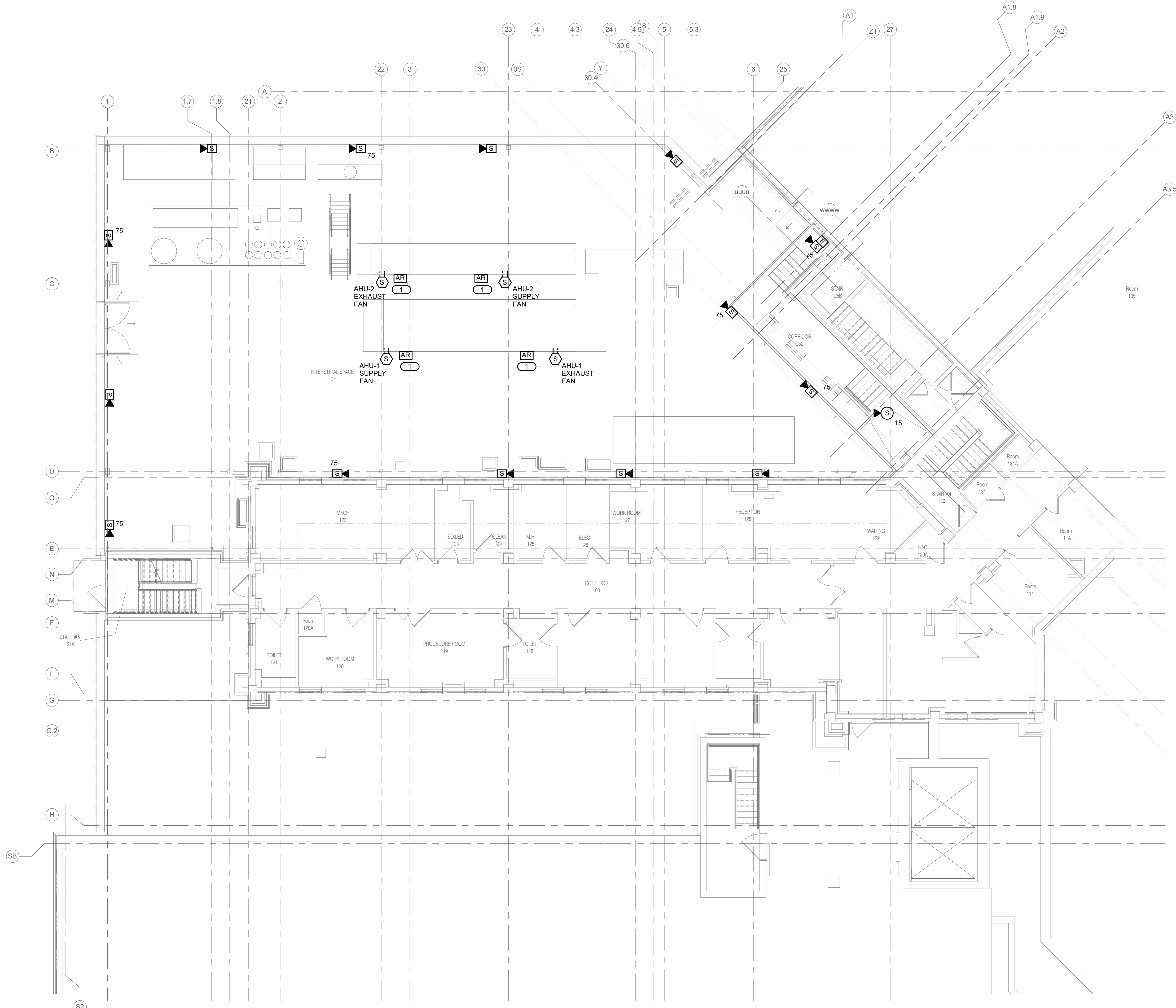
Drawing Number
 FA101

SHEET NOTES:

- IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY ALL EQUIPMENT AND REQUIRED OPENINGS SHOWN ON THE DRAWINGS MATCH WHAT EQUIPMENT IS ACTUALLY PROVIDED. ANY CHANGES REQUIRED TO BE MADE IS THE CONTRACTOR'S RESPONSIBILITY TO REVISE DRAWINGS AS NEEDED, INCLUDING ANY PROFESSIONAL ENGINEERING FEES ASSOCIATED AND SHALL BE AT NO ADDITIONAL COST TO THE VA.

KEYNOTES:

- ADDRESSABLE RELAY FOR FAN SHUTDOWN. MOUNT WITHIN 3 FEET OF FAN CONTROLLER. REFER TO DETAIL 1/E401 FOR MORE INFORMATION.



1 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

BIM 360://1904249.04_VA-Wash-DC-VA_Slow-Falls-New-SPS-Crnt
 2/14/2025 7:25:55 PM

Revisions:	Date:

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KRISTEN L. SPINA
Professional Engineer
IOWA
2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
INTERSTITIAL/FIRST LEVEL FLOOR PLAN - FIRE ALARM

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
JMK

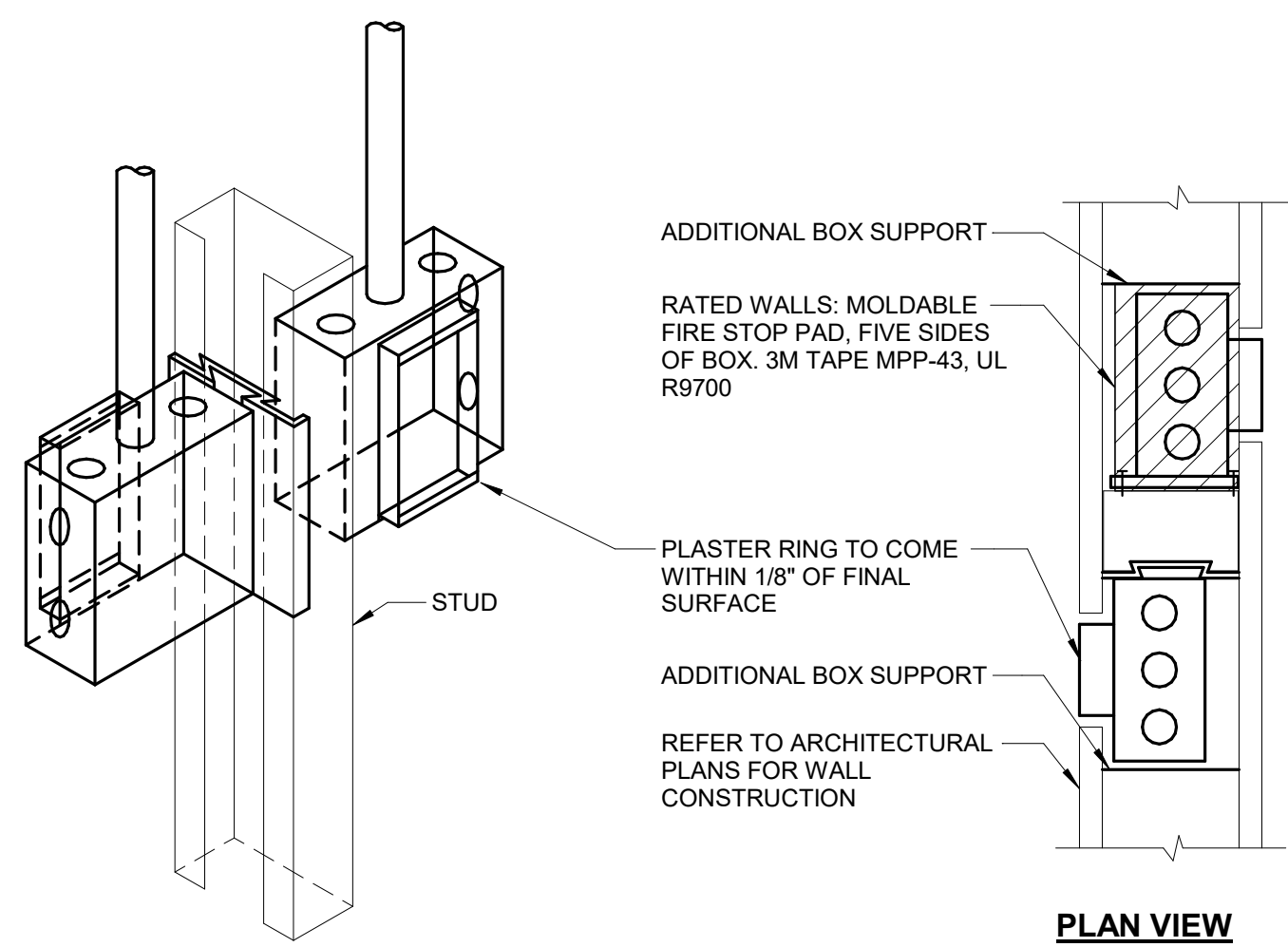
Drawn
JDR

Project Number
438-460

Building Number
5

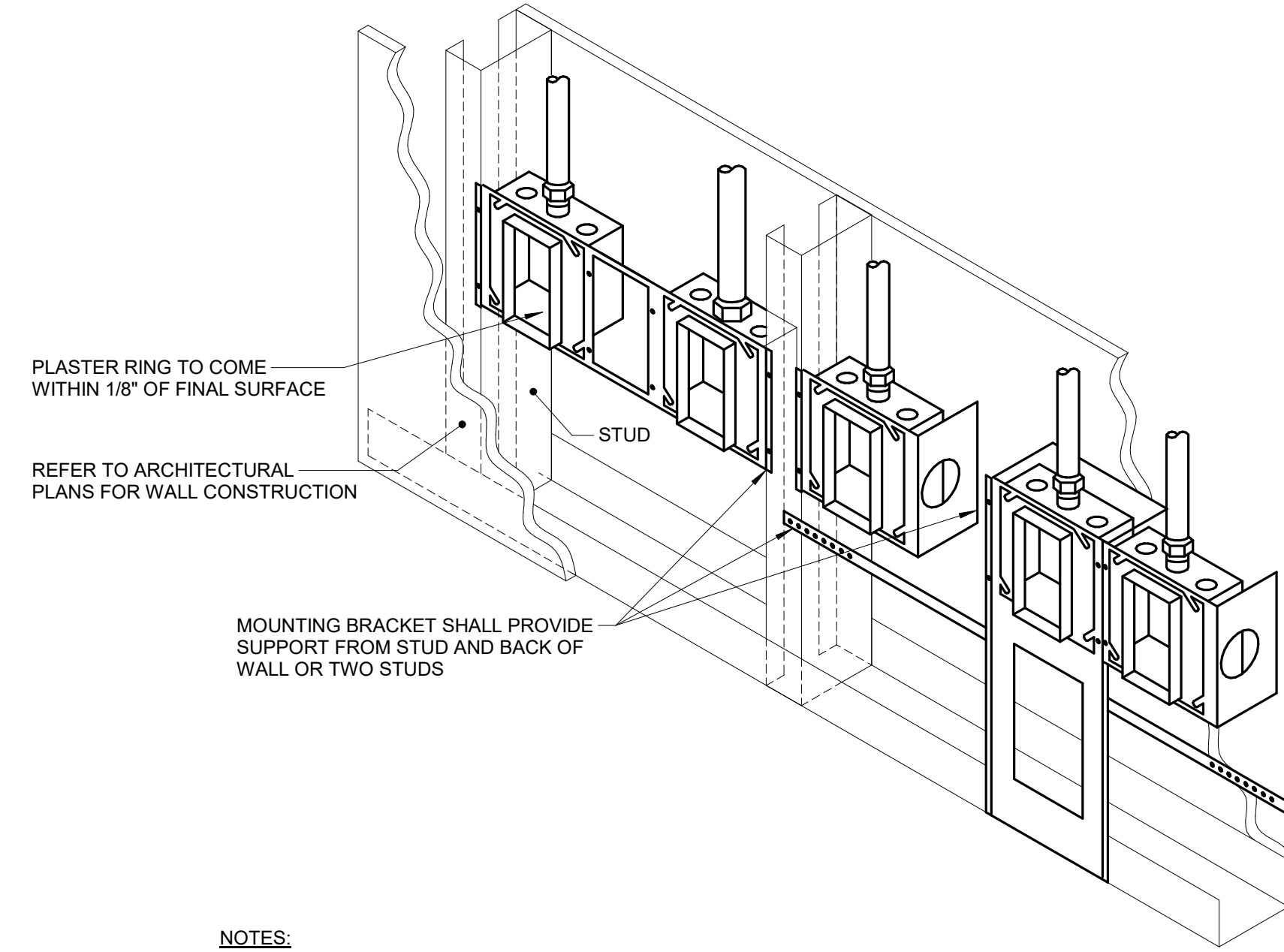
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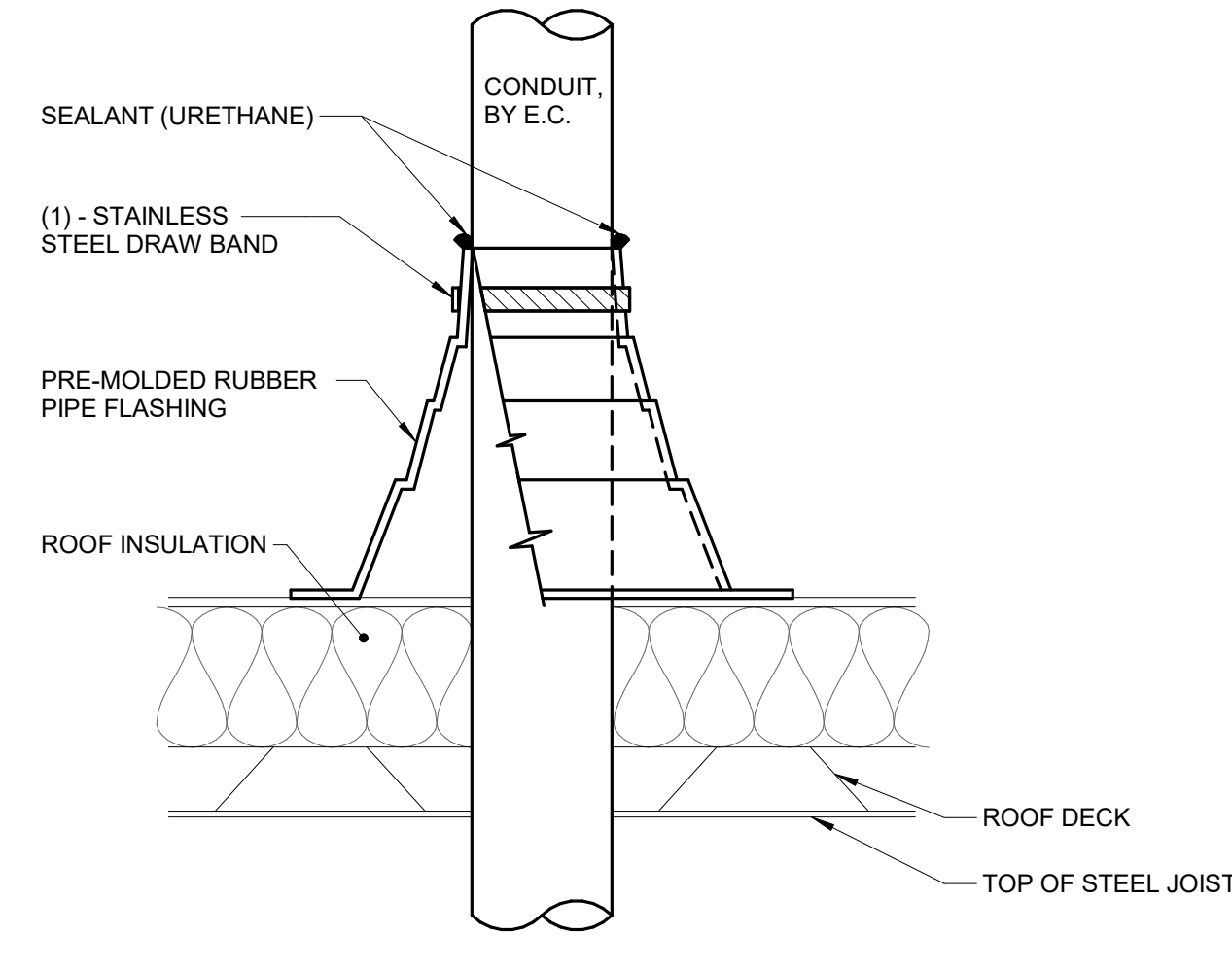
NOTES:
 1. HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.

1 SIDE BY SIDE DEVICE OPENINGS
NO SCALE



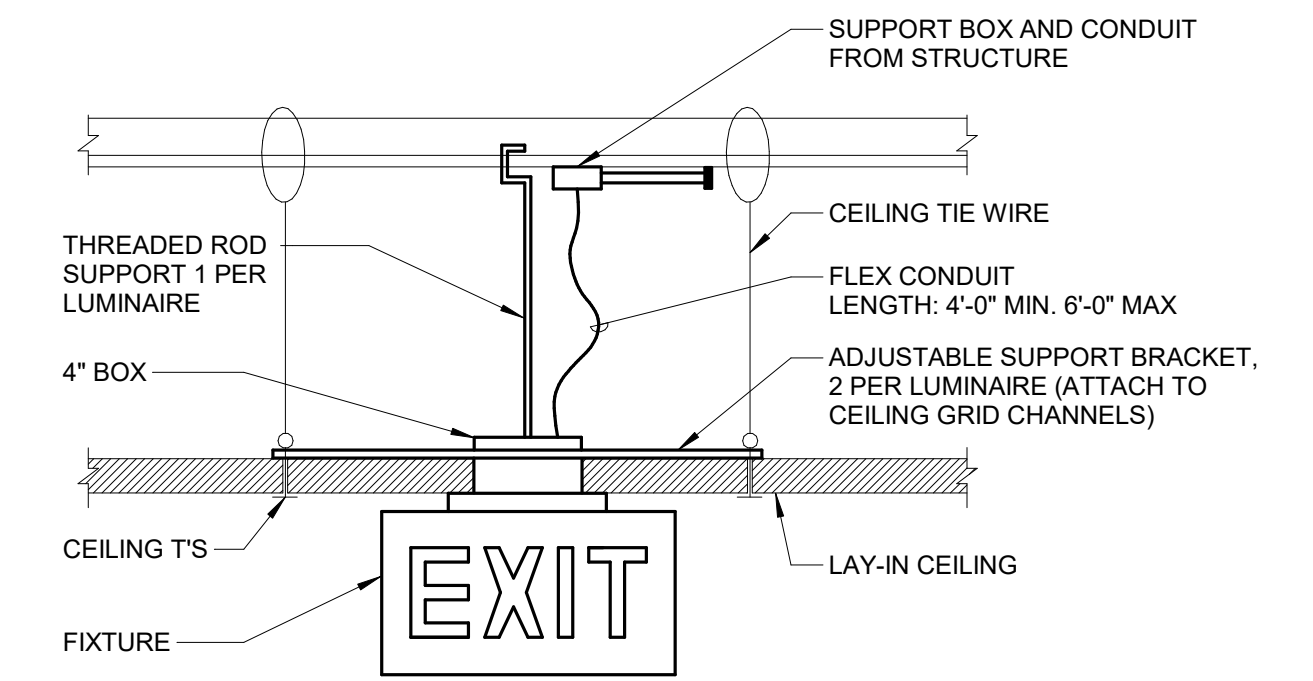
NOTES:
 1. THE INTENT OF THE DETAIL IS TO ENSURE DEVICE ROUGH-INS ARE ALIGNED, SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
 2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
 3. MOUNTING BRACKET FOR 2 1/2" OR 3 1/2" STUDS SHALL BE CADDY #H23, OR B-LINE BB4-23. MOUNTING BRACKET FOR 4" OR 6" STUDS SHALL BE CADDY #H46TC OR B-LINE BB4-# . FOR MULTIPLE BOXES BETWEEN STUDS, BRACKET SHALL BE CADDY #RBS16/#RBS24 OR B-LINE BB6-# OR BB#F FLOOR MOUNT SUPPORT WITH BBFC.
 4. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED ON OPPOSITE SIDES OF A COMMON STUD OR IN ADJACENT OPENINGS WITH MOUNTING BRACKETS.

2 BACKBOX MOUNTING DETAIL
NO SCALE

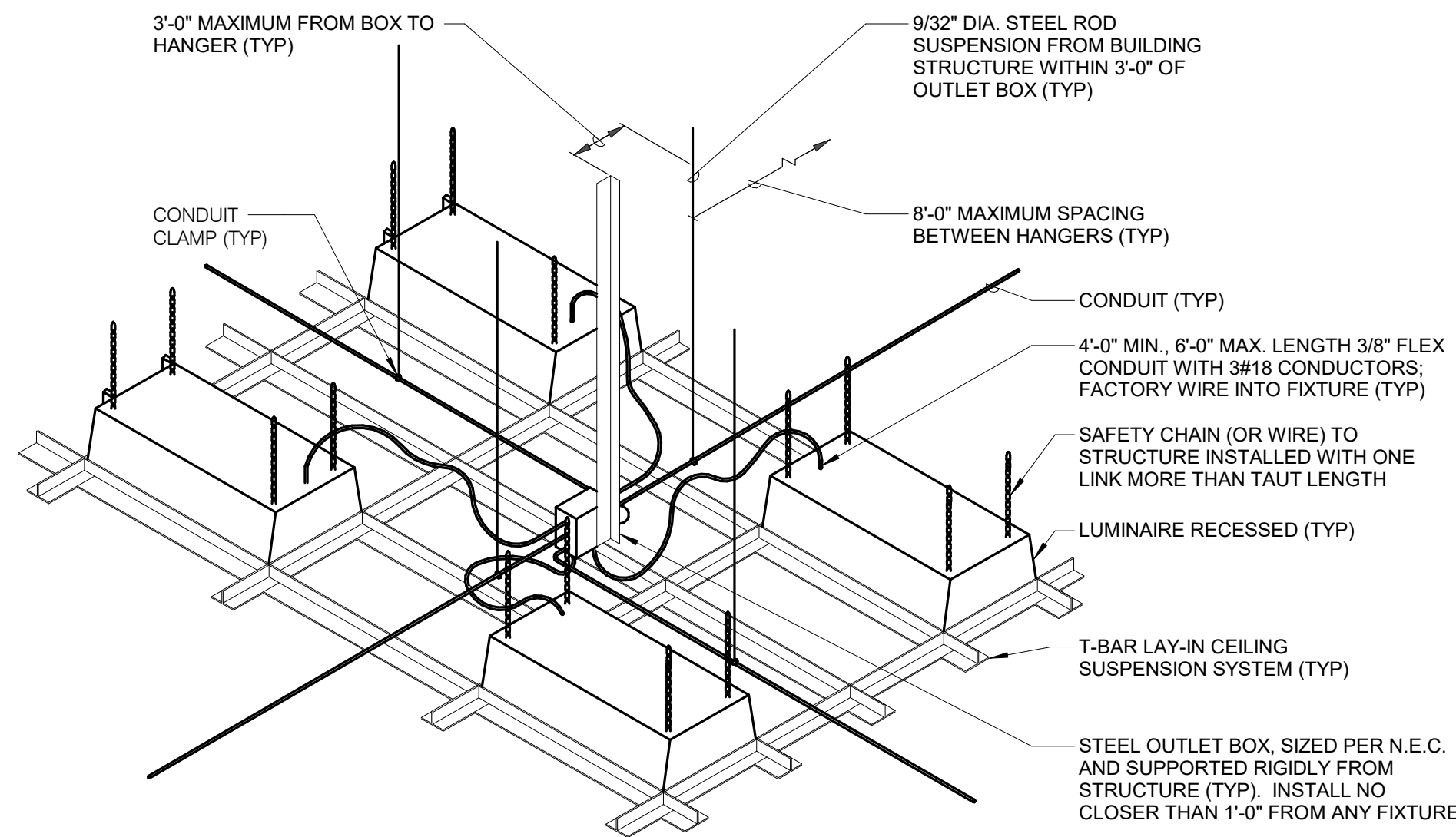


NOTES:
 1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
 2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION.

3 CONDUIT ROOF PENETRATION
NO SCALE

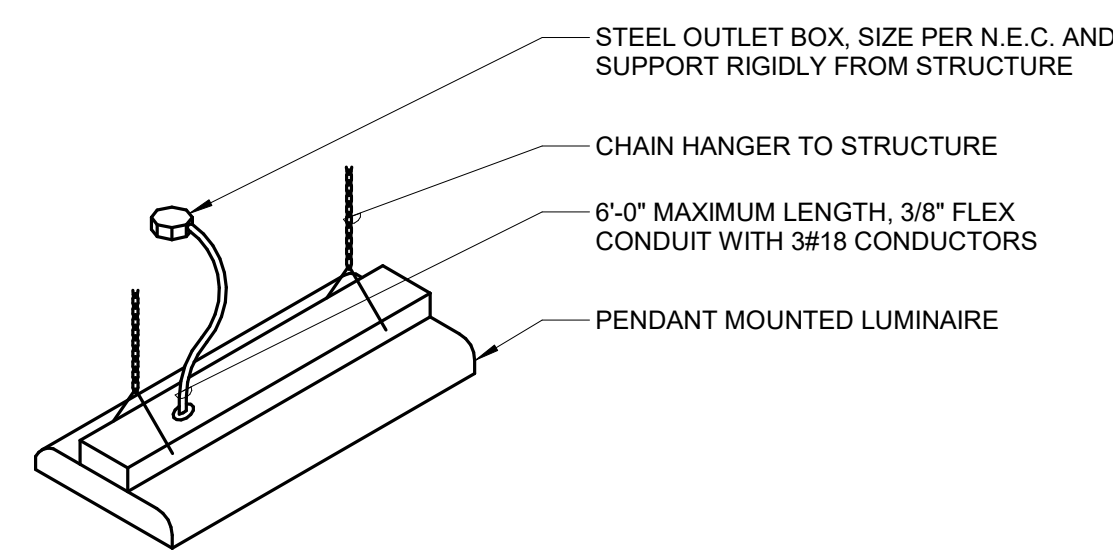


4 EXIT SIGN MOUNTING DETAIL
NO SCALE



NOTES:
 1. DO NOT SUPPORT CONDUIT OR BOXES FROM CEILING GRID HANGERS.
 2. PROVIDE A MINIMUM OF TWO INDEPENDENT #12 GAUGE SUSPENDED CEILING SUPPORT WIRES LOCATED ON DIAGONAL CORNERS OF THE LUMINAIRE. LUMINAIRE WEIGHING 56 LBS OR GREATER REQUIRE FOUR SUPPORT WIRES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5 RECESSED LUMINAIRE DETAIL (SAFETY CHAIN)
NO SCALE



NOTES:
 1. SELECT CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS.
 2. PROVIDE TWO CHAIN HANGERS FOR EACH LUMINAIRE. ADJUST TO HANG LUMINAIRE LEVEL.

6 CHAIN SUSPENDED MOUNTING DETAIL
NO SCALE

Revisions:	Date:

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STAMP

KRISTEN L. SPINA
 2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL DETAILS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
JMK

Drawn
JDR

Project Number
438-460

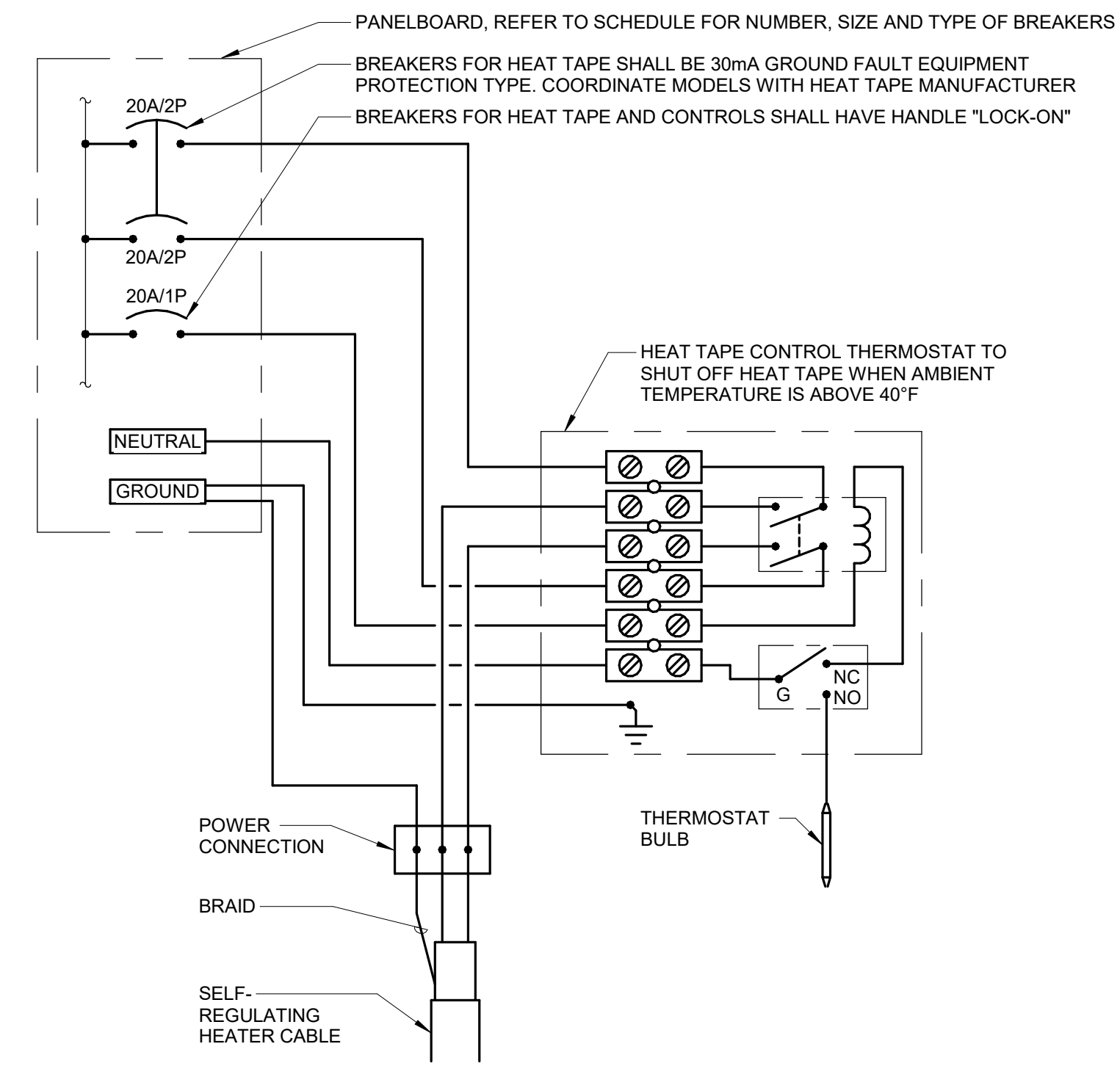
Building Number
5

Drawing Number
E400

CONDUIT INSTALLATION SCHEDULE

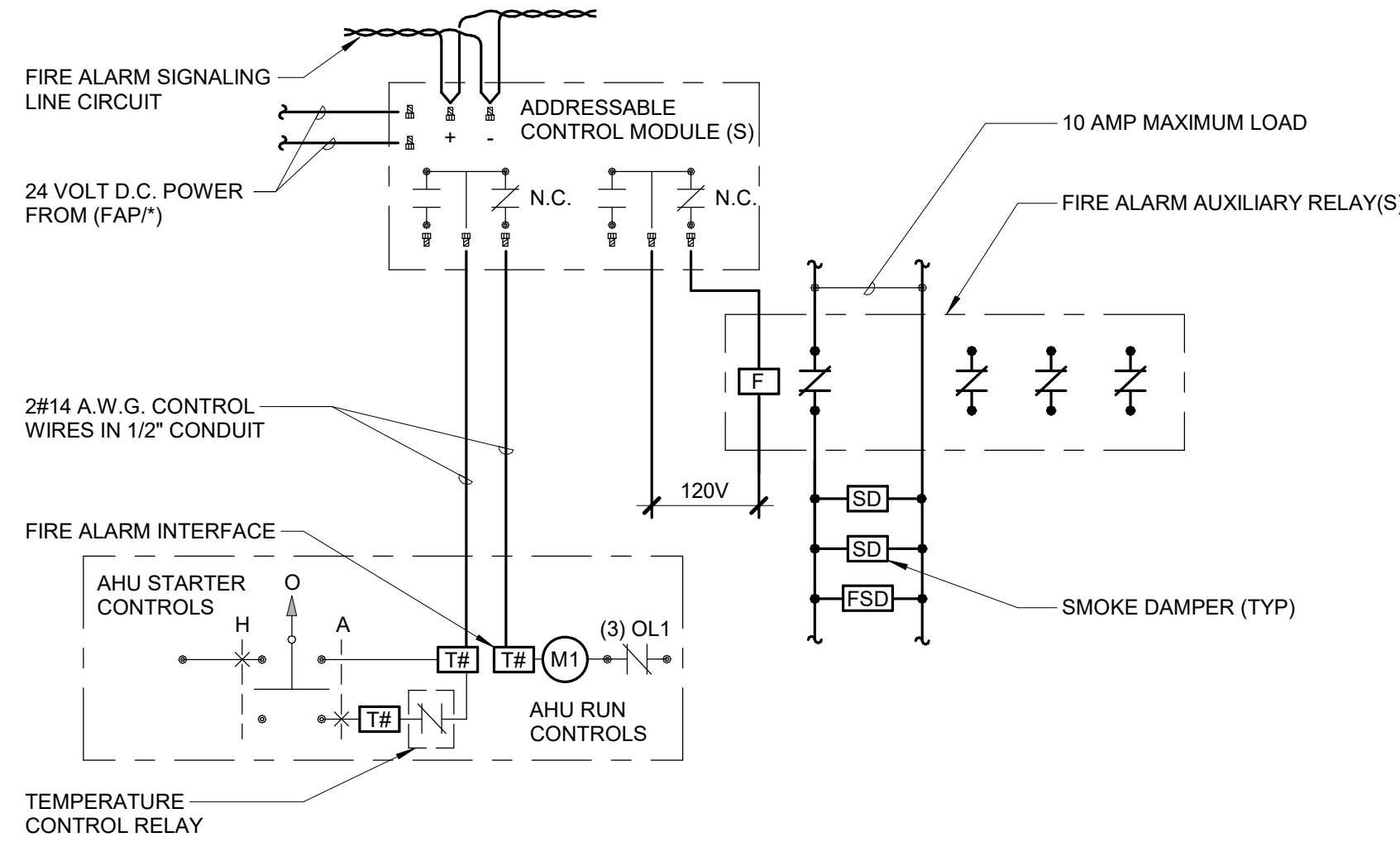
THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	RTRC	PVC COATED RMC	PVC	PVC CONCRETE ENCASED	HDPE	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X						
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X						
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X						
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X						
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X						
FINISHED SPACES / CONCEALED			X						
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X			X					
CORROSIVE LOCATIONS				X	X				
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X						X		
INTERIOR LOCATIONS: CONCEALED			X						
INTERIOR LOCATIONS: EXPOSED		X	X						
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)			X						X
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)									
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X						X		
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION	X			X			X		
UNDERGROUND SITE CONDUITS:									
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X			X		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X			X		
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED. PROVIDE PRESSURIZED GROUT					X	X		X	
FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY				X					



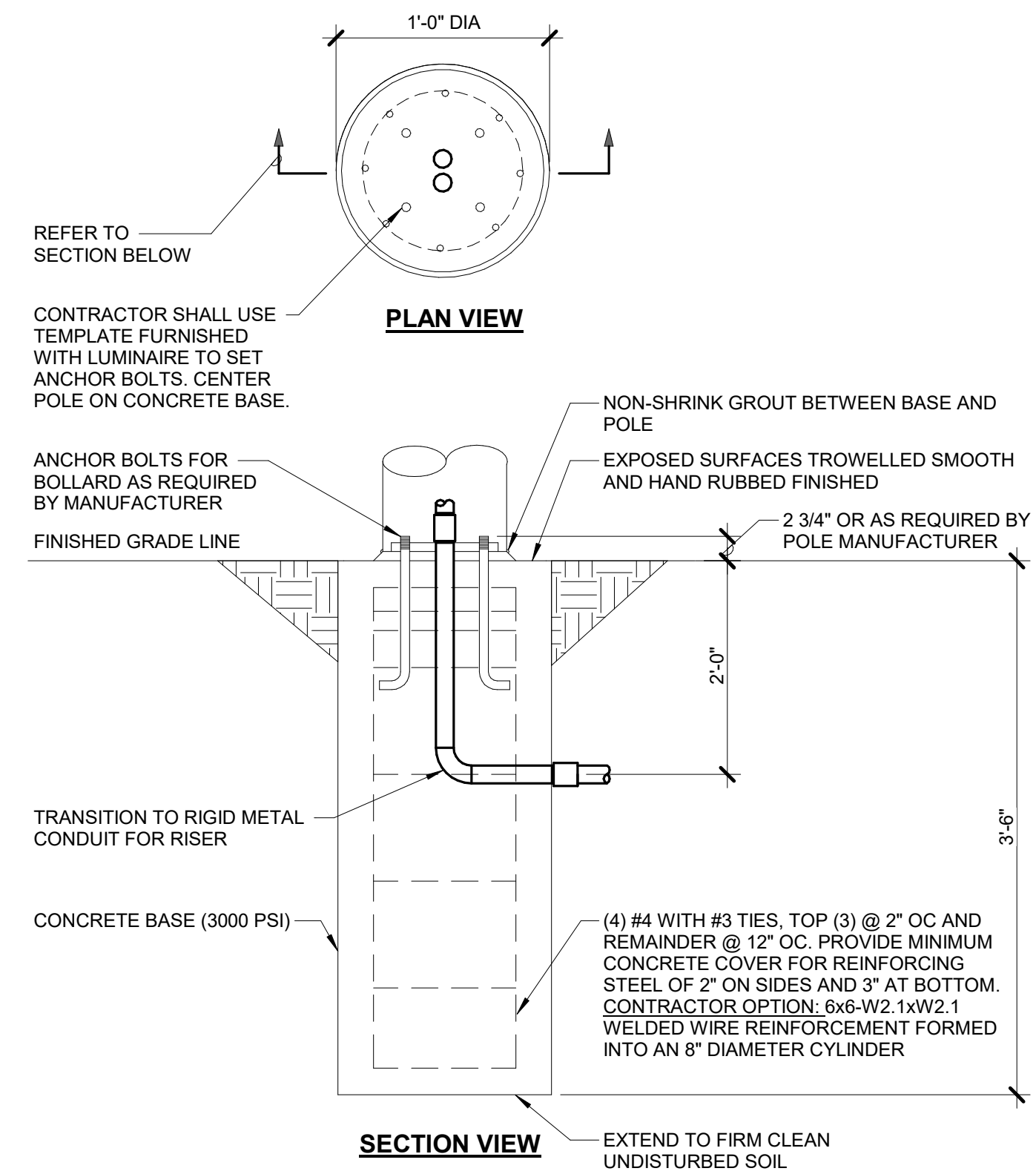
NOTE:
1. ALL WIRING SHALL BE COPPER TYPE "THWN" INSTALLED IN I.M.C. CONDUIT.

3 HEAT TAPE CONTROL DIAGRAM NO SCALE



NOTES:
1. SEQUENCE OF OPERATION:
ADDRESSABLE CONTROL MODULE PROGRAMMED NORMALLY CLOSED FOR NORMAL OPERATION UPON ACTIVATION OF A SMOKE DETECTOR IN THE AREA SERVED BY THE AHU. THE CONTROL MODULE WILL OPEN SHUTTING DOWN THE AHU AND CLOSING THE SMOKE DAMPERS.

1 AHU SHUT DOWN - ADDRESSABLE 12" = 1'-0"



2 BOLLARD BASE DETAIL NO SCALE

Revisions:	Date:

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Professional Engineer
No. 19004249.04
IOWA
2/14/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL DETAILS

Phase
BID DOCUMENTS

Project Title
CONSTRUCT NEW SPS

Project Number
438-460

Building Number
5

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
JMK

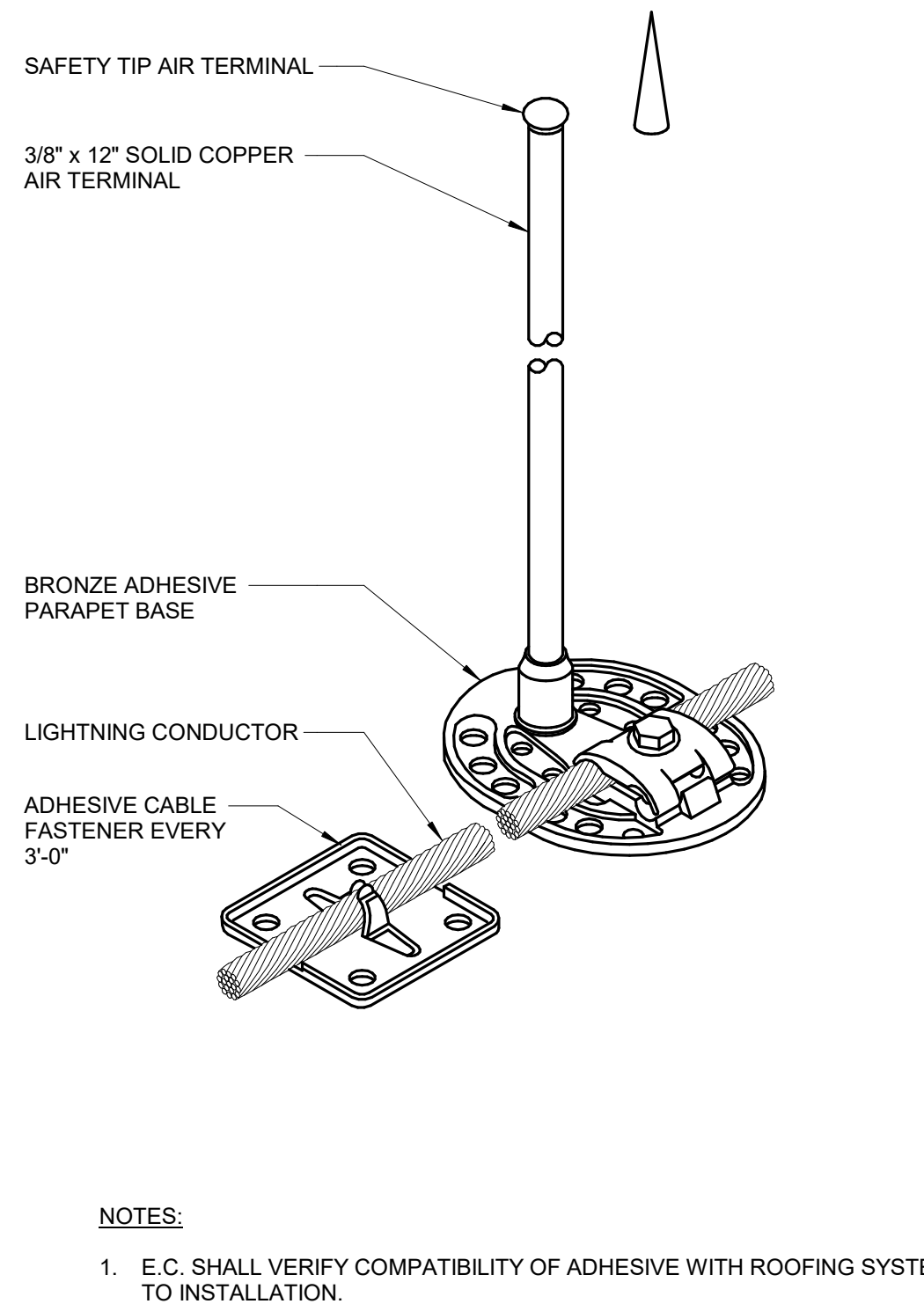
Drawn
JDR

Drawing Number
E401

Approved:

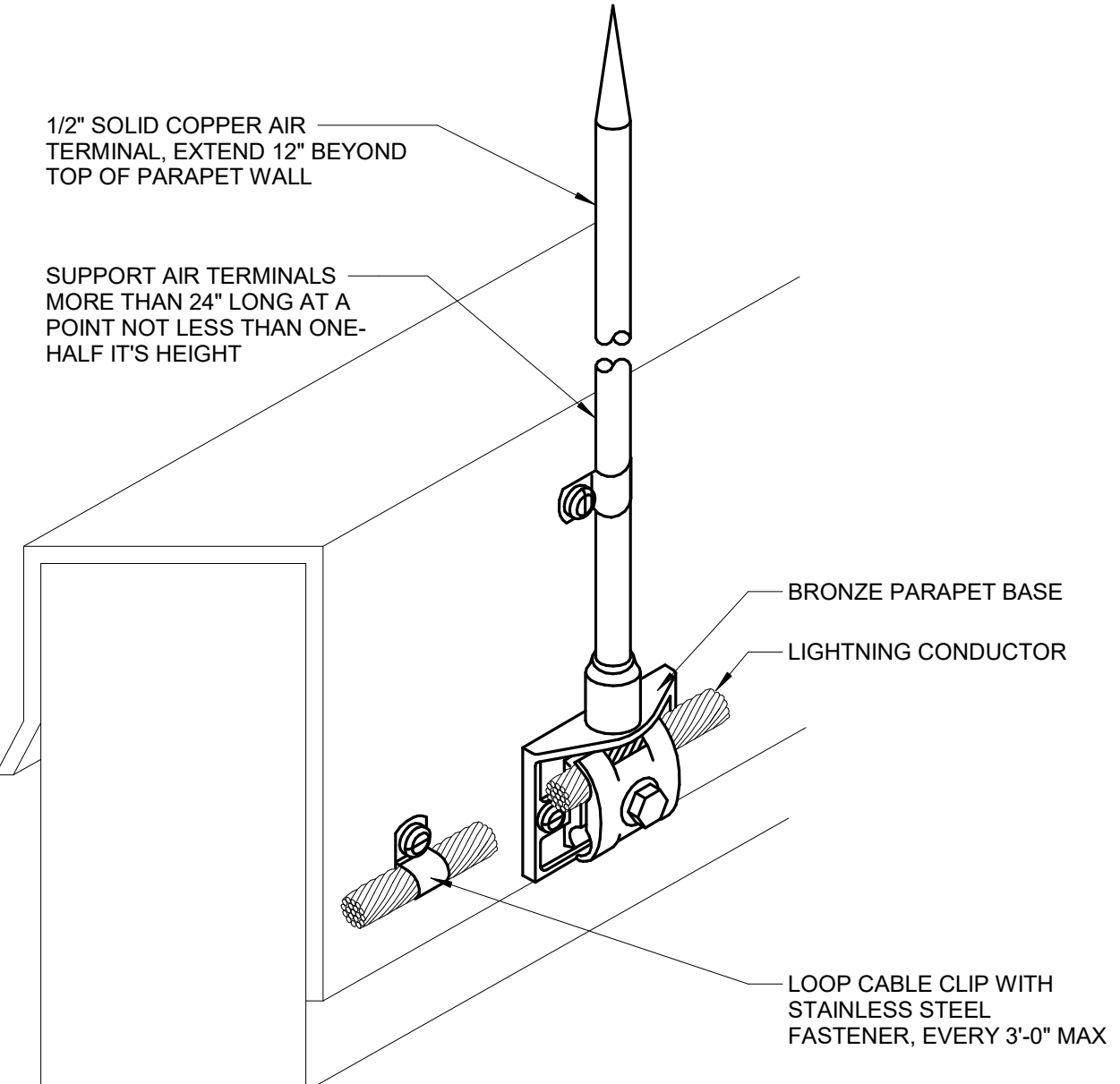
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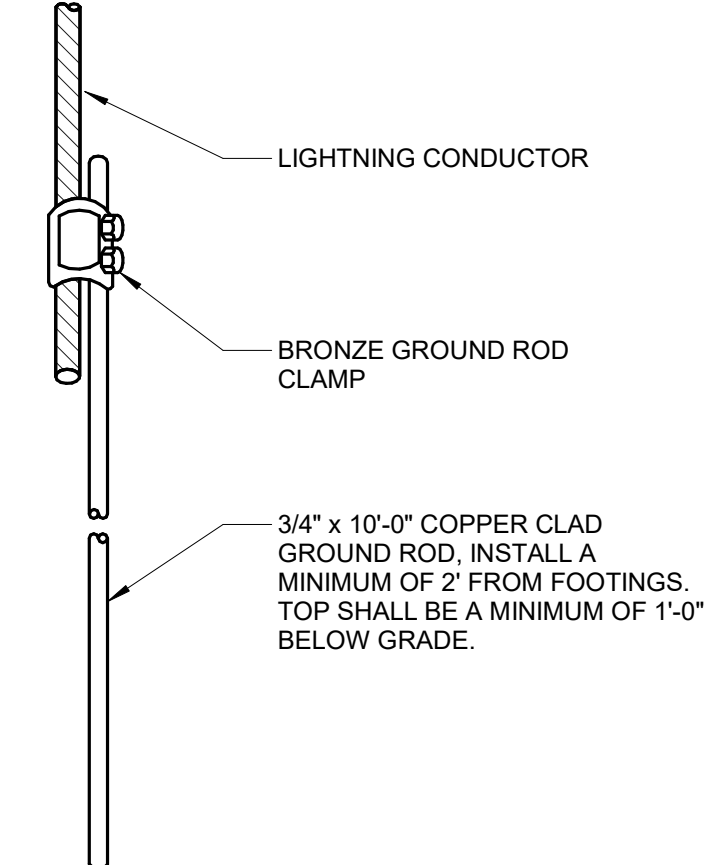


1 ADHESIVE AIR TERMINAL
NO SCALE

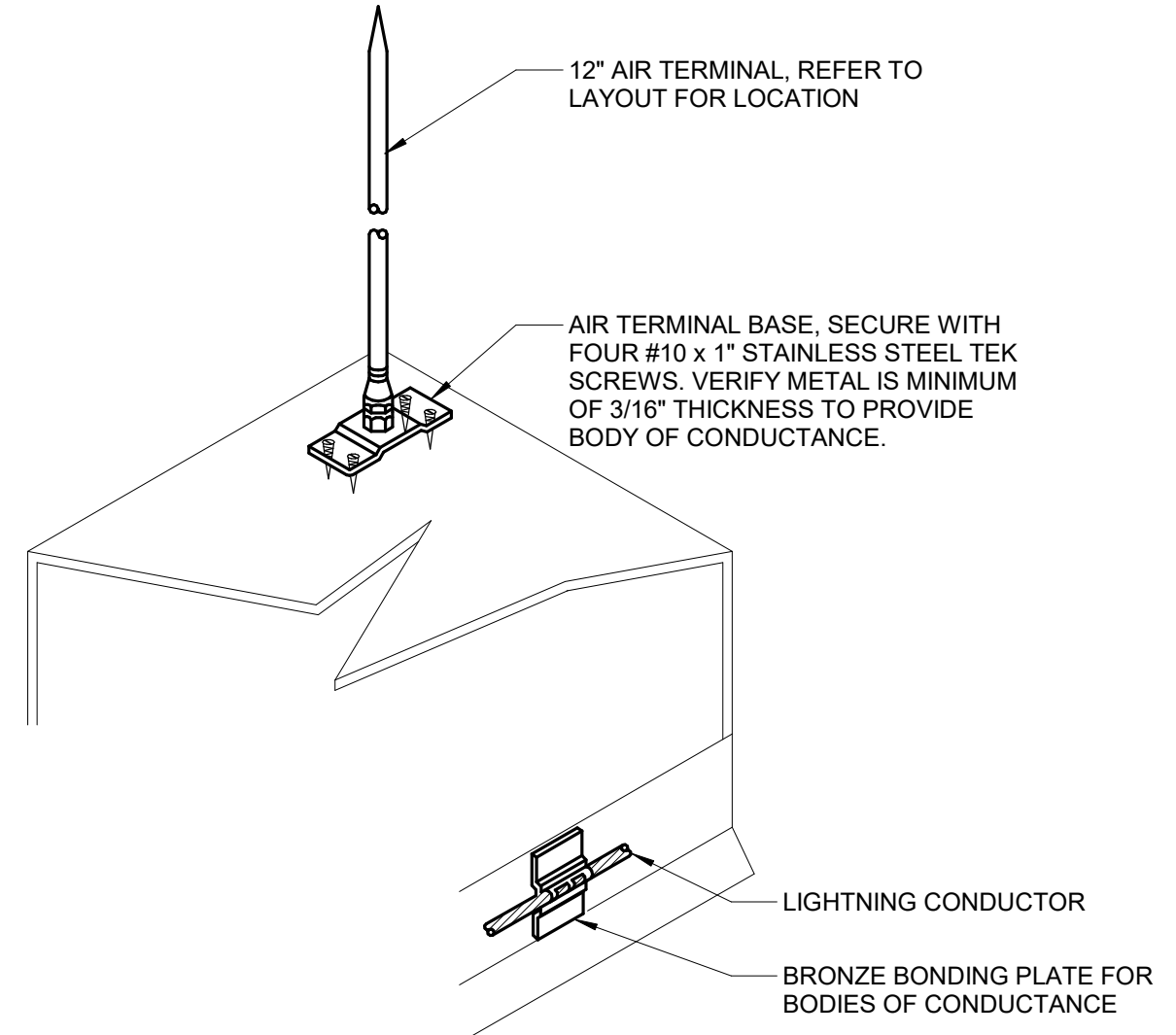
NOTES:
1. E.C. SHALL VERIFY COMPATIBILITY OF ADHESIVE WITH ROOFING SYSTEM SUPPLIER PRIOR TO INSTALLATION.



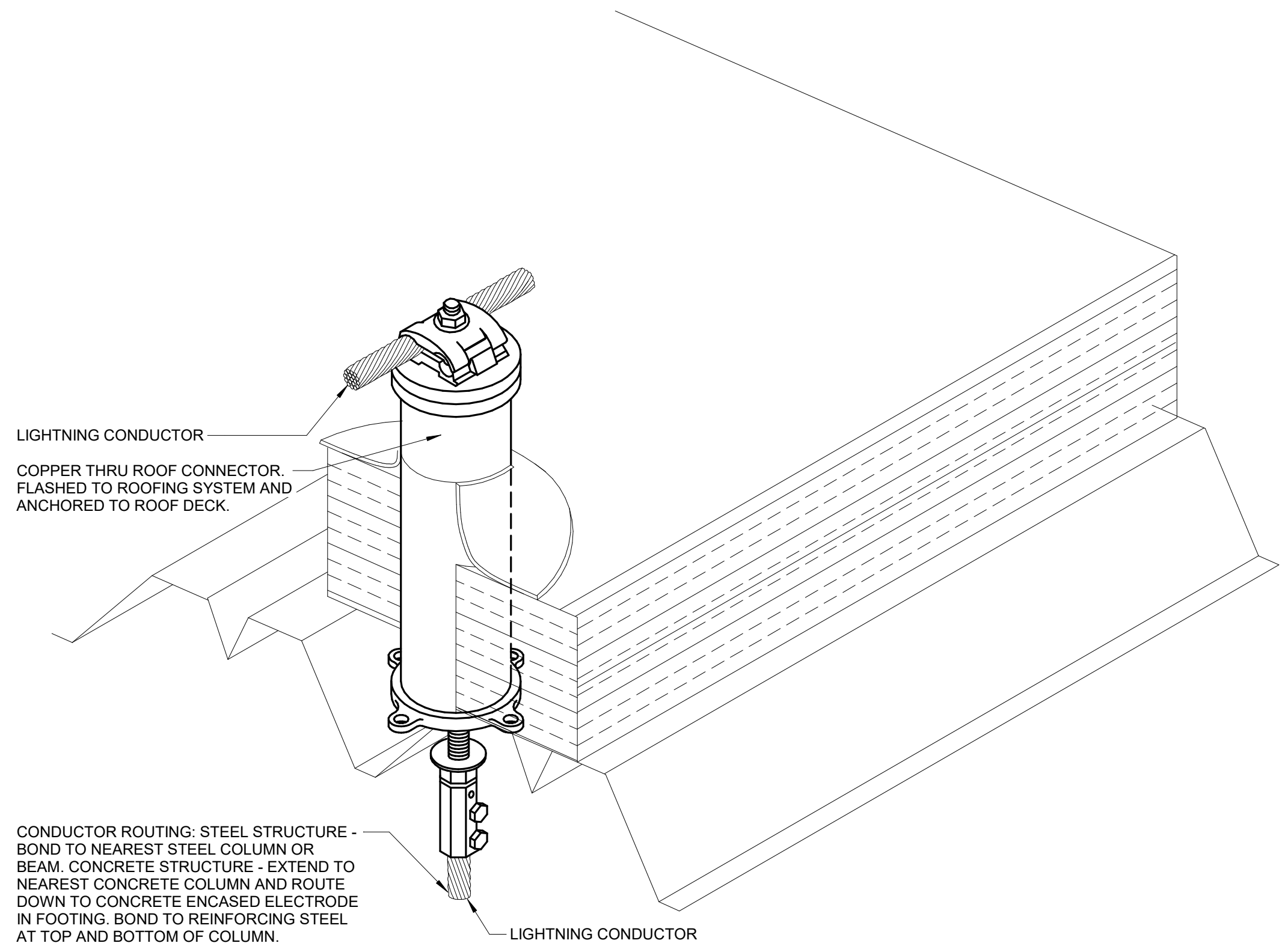
2 PARAPET AIR TERMINAL DETAIL
NO SCALE



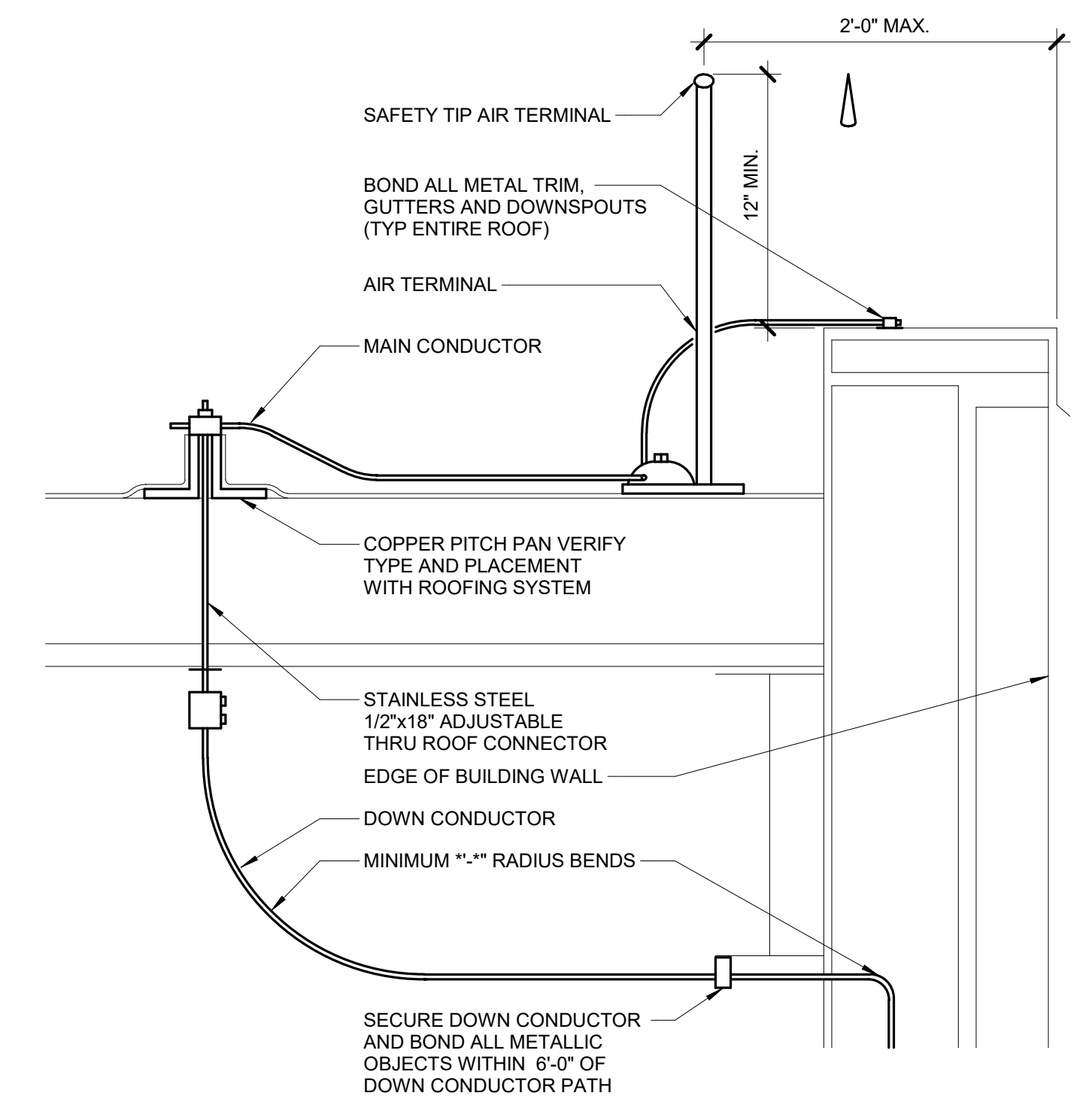
3 TYPICAL GROUNDING DETAIL
NO SCALE



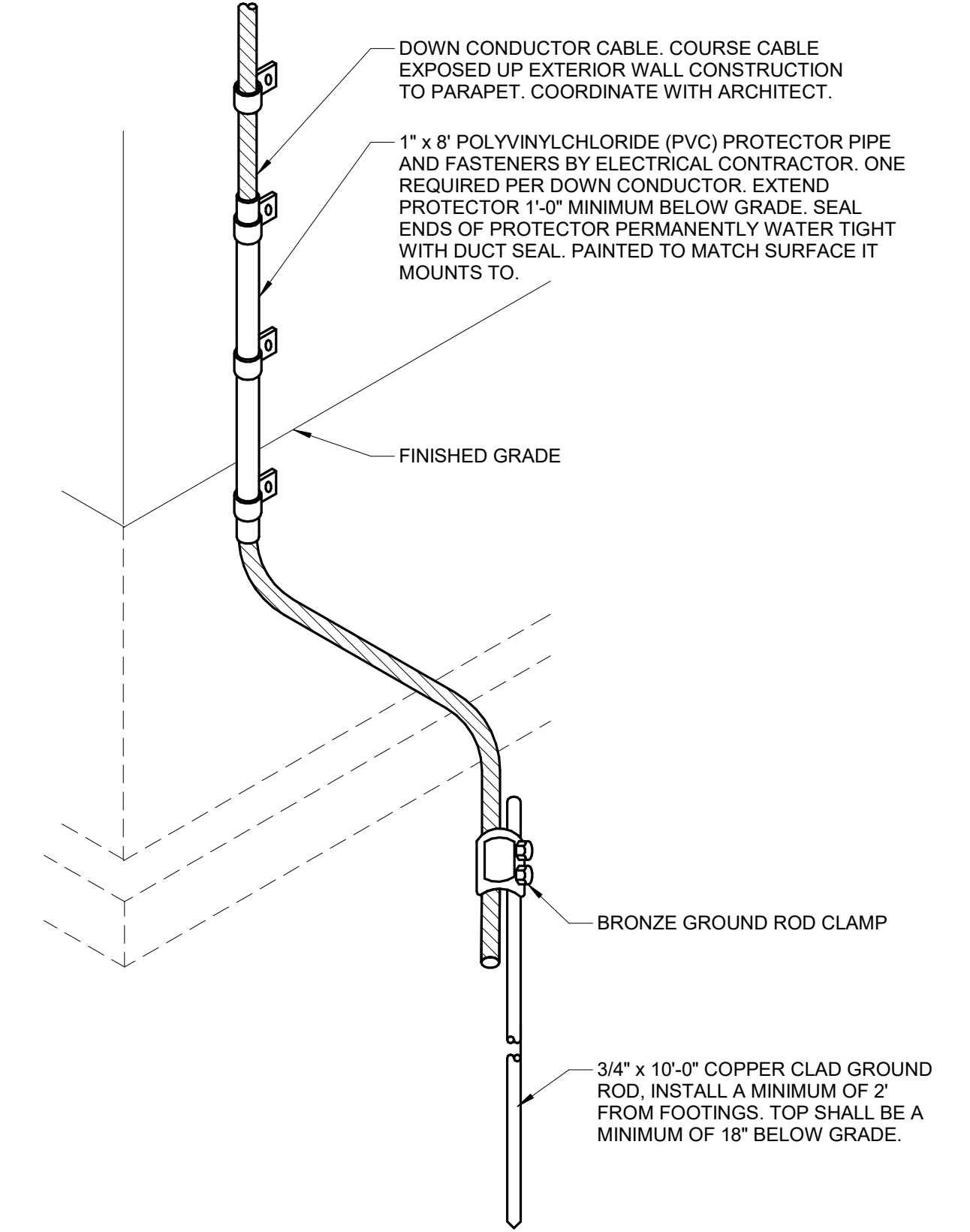
4 EQUIPMENT AIR TERMINAL
NO SCALE



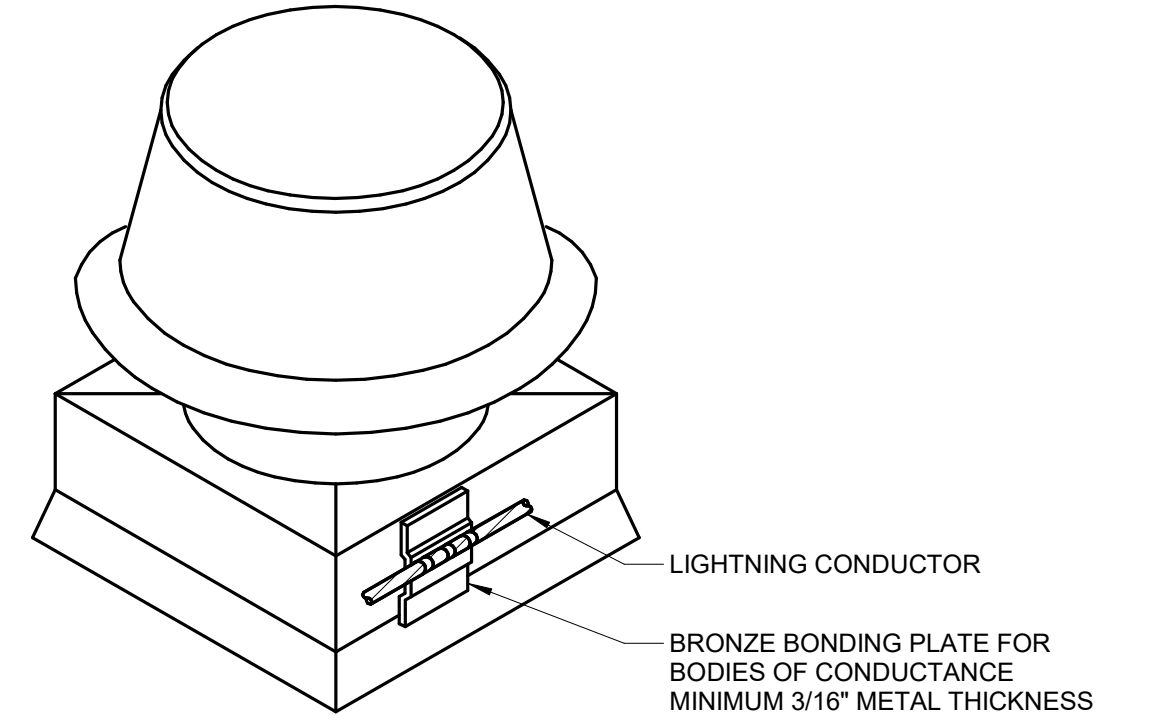
5 ROOF PENETRATION DETAIL
NO SCALE



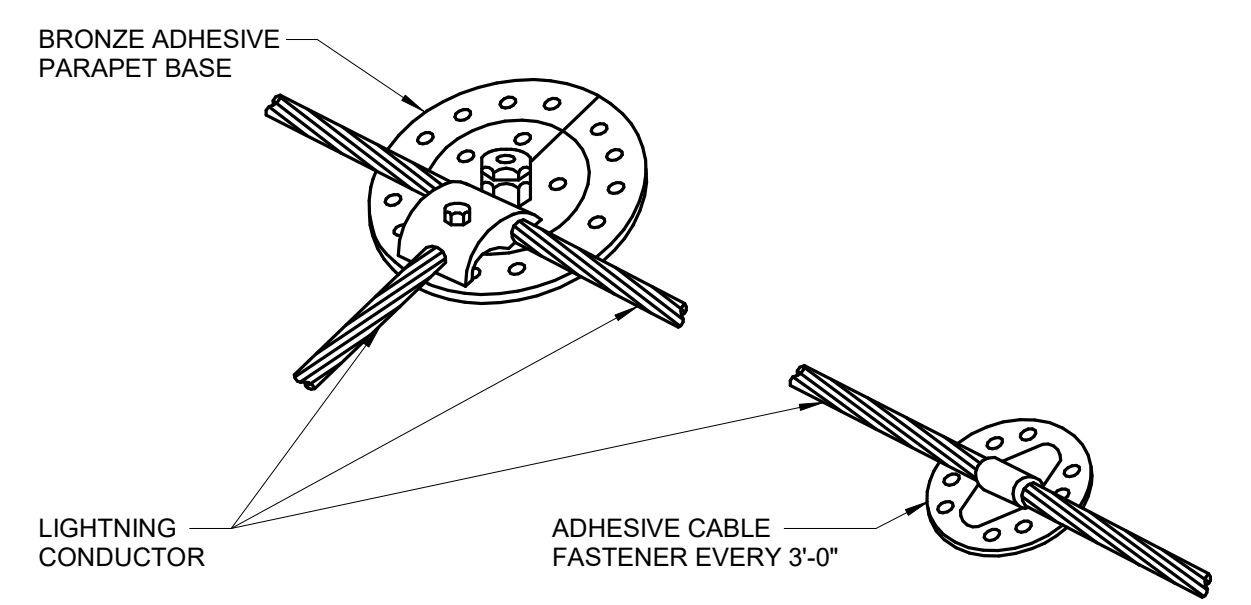
6 PERIMETER AIR TERMINAL DETAIL
NO SCALE



7 GROUNDING AT GRADE DETAIL
NO SCALE



8 BONDING FOR METAL BODIES
NO SCALE



9 CABLE JUNCTION POINT
NO SCALE

NOTES:
1. E.C. SHALL VERIFY COMPATIBILITY OF ADHESIVE WITH ROOFING SYSTEM MANUFACTURER PRIOR TO INSTALLATION.

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		Approved: _____								Building Number 5
		Fully Sprinklered FULLY SPRINKLERED								Drawing Number E402