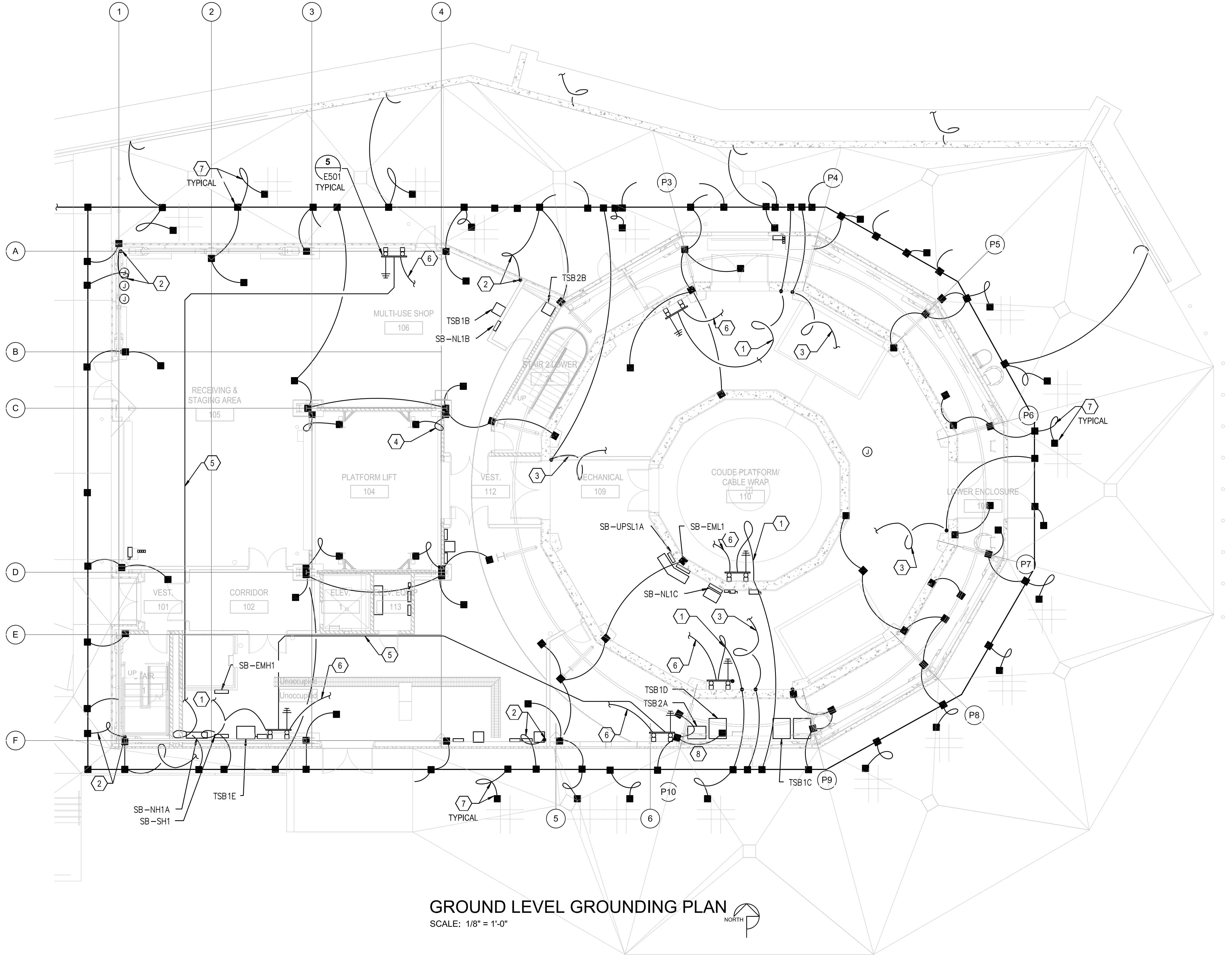
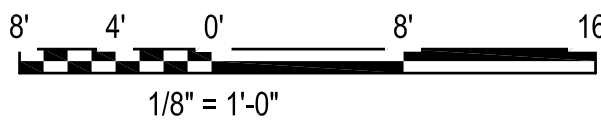




GROUND LEVEL GROUNDING PLAN

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



KEYNOTES

- EXISTING 6'-0" (1829) LONG #4/0 SDBC GROUNDING CONDUCTOR PIGTAIL STUBBED OUT FROM GES EXTEND AND CONNECTION #4/0 SDBC CONDUCTOR TO EXTERNAL GROUND BUSES AS SHOWN.
- EXISTING 6'-0" (1829) #4/0 SDBC PIGTAIL FOR LPS DOWN LEAD CONDUCTOR CONNECTION.
- EXISTING 6'-0" (1829) LONG # 4/0 SDBC LPS DOWNLEAD CONDUCTOR PIGTAIL STUBBED OUT FROM GES. EXTEND 1 #4/0 SDBC CONDUCTOR IN 3/4" CONDUIT PVC UP TO RING BEAM, SEE SHEET EG102 FOR CONTINUATION AND REFER TO SHEET EG104.
- PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT, TYPICAL FOUR (4) LOCATIONS.
- PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT.
- PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR 3/4" CONDUIT UP TO MEZZANINE LEVEL GROUND BUSES, SEE SHEET EG102 FOR CONTINUATION.
- EXISTING 6'-0" (1829) LONG #4/0 SDBC GROUNDING CONDUCTOR PIGTAIL STUBBED OUT FROM GES. BOND CONDUCTOR PIGTAIL TO CONCRETE APRON REBAR/MESH GRID USING EXOTHERMIC TYPE WELD AS INDICATED, TYPICAL MULTIPLE LOCATIONS.
- PROVIDE #4/0 SDBC BOND FROM BUILDING STEEL TO METAL LADDER.

GENERAL NOTES

- REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE AND REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).



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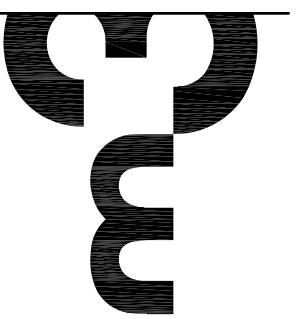
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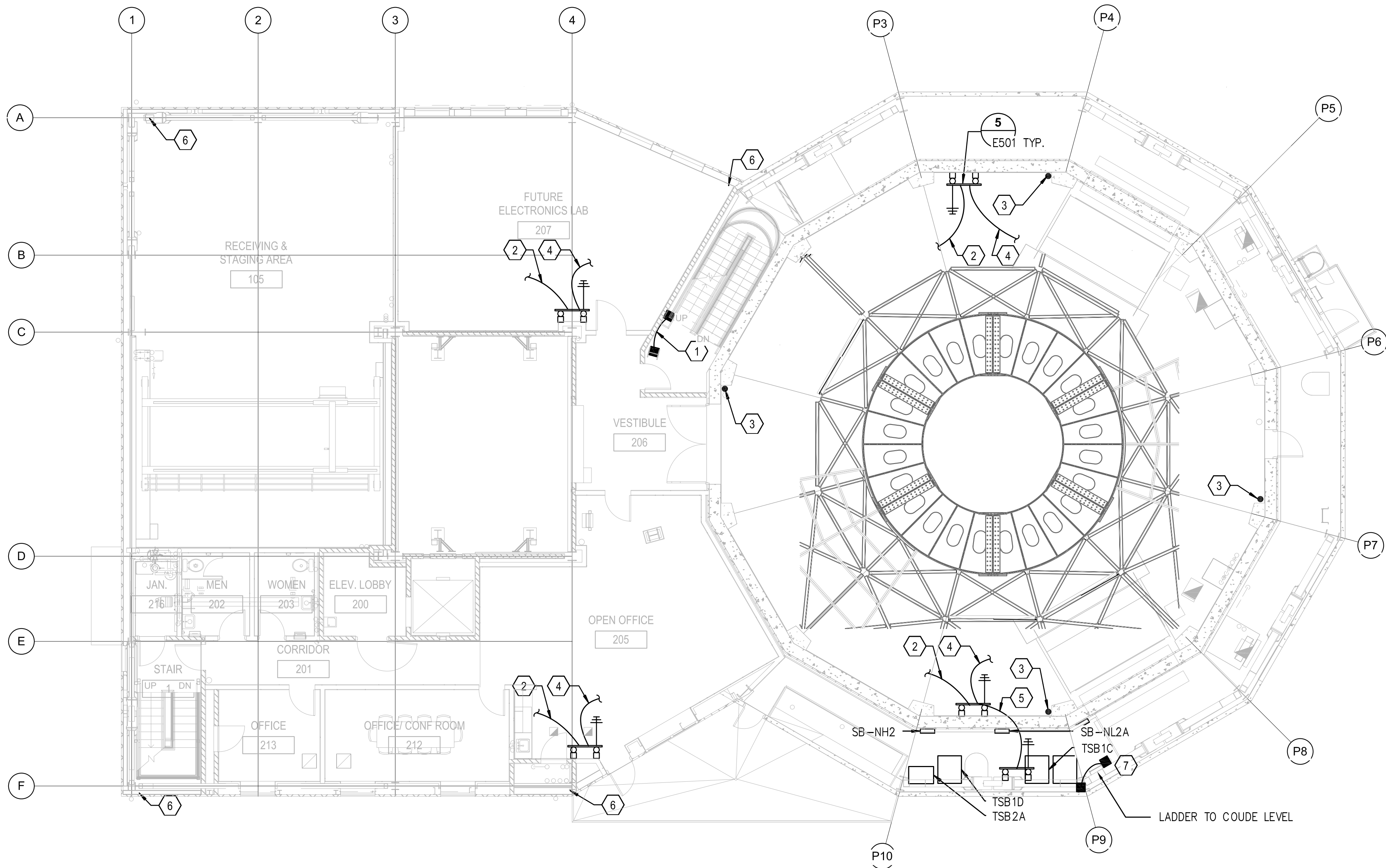
GROUND LEVEL
GROUNDING PLAN

Sheet Number

EG101

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MEZZANINE LEVEL GROUNDING PLAN

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



KEYNOTES

- 1 PROVIDE 1 #4/0 SDBC CONDUCTOR BOND FROM BUILDING STEEL TO METAL STAIRCASE.
- 2 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT DOWN TO GROUND LEVEL GROUND BUSES, SEE SHEET EG101 FOR CONTINUATION.
- 3 PROVIDE 1#4/0 SDBC LPS DOWNLEAD CONDUCTOR ROUTED VERTICALLY IN 3/4" PVC CONDUIT UP TO RING BEAM. REFER TO SHEET EG104.
- 4 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT UP TO COUDE LEVEL GROUND BUSES, SEE SHEET EG103 FOR CONTINUATION.
- 5 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT.
- 6 PROVIDE 1 #4/0 SDBC ROUTED VERTICALLY IN 3/4" CONDUIT UP TO ROOF LPS. REFER TO SHEETS EG103 AND EG104 FOR CONTINUATION.
- 7 PROVIDE 1 #4/0 SDBC BOND FROM BUILDING STEEL TO METAL LADDER.

GENERAL NOTES

- A. REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- C. ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE AND REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).



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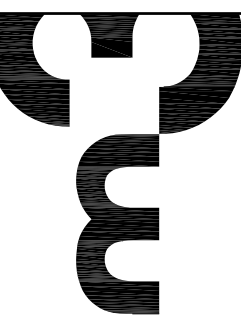
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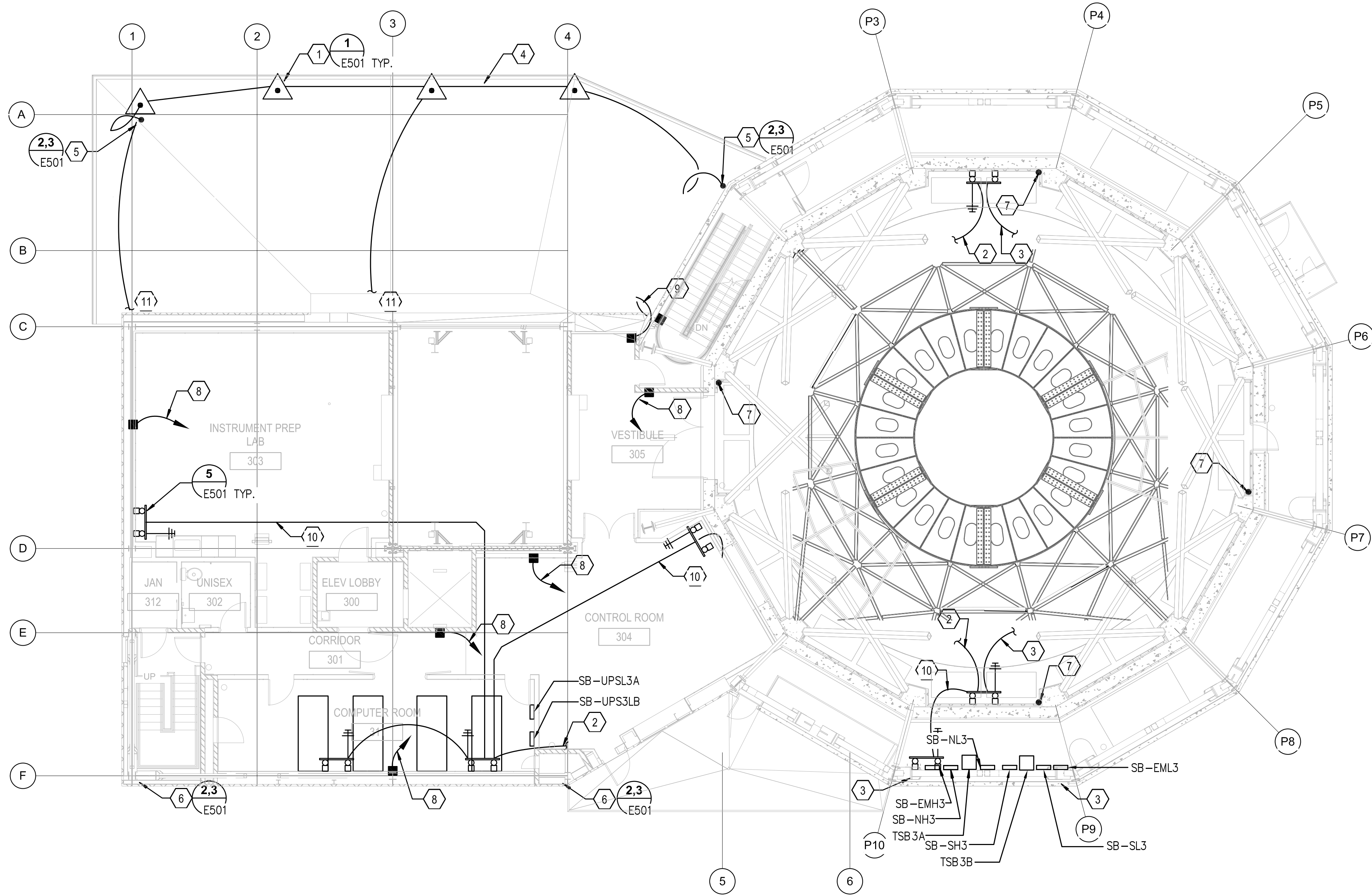
MEZZANINE LEVEL
GROUNDING PLAN

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EG102

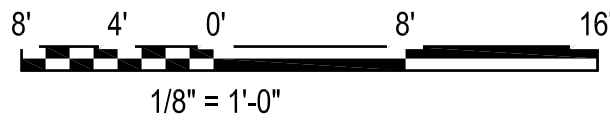
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COUDE LEVEL GROUNDING AND LPS PLAN

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



KEYNOTES

- 1 PROVIDE 24" [610] ALUMNINUM AIR TERMINAL, SPACED AT 20' [6096] ON CENTER.
- 2 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT DOWN TO MEZZANINE LEVEL GROUND BUSSES, SEE SHEET EG102 FOR CONTINUATION.
- 3 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT UP TO UTILITY LEVEL GROUND BUSSES, SEE SHEET EG104 FOR CONTINUATION.
- 4 PROVIDE LPS CROSS CONNECTION CONDUCTOR CONSISTING OF 1 #4/0 SDBC, TYPICAL.
- 5 PROVIDE 1 #4/0 SDBC LPS DOWNLOAD CONDUCTOR THROUGH ROOF, THEN ROUTED VERTICALLY WITHIN BUILDING IN 3/4" PVC CONDUIT DOWN TO GES, REFER TO SHEET EG102 FOR CONTINUATION.
- 6 PROVIDE 1 #4/0 SDBC LPS DOWNLOAD CONDUCTOR ROUTED VERTICALLY IN 3/4" PVC CONDUIT UP TO ROOF LPS, REFER TO SHEET EG104 FOR CONTINUATION.
- 7 PROVIDE 1#4/0 SDBC LPS DOWNLOAD CONDUCTOR ROUTED VERTICALLY IN 3/4" PVC CONDUIT UP TO RING BEAM. REFER TO SHEET EG104.
- 8 PROVIDE 1#6 AWG INSULATED GREEN COLORED GROUND CONDUCTOR BOND FROM GROUND BUS TO STATIC CONDUCTIVVE DISPATIVE FLOORING SYSTEM, REFERENCE ARCHITECTURE SPEC. SECTION 09661 ROOM FINISH SCHEDULE FOR MORE DETAILS.
- 9 PROVIDE 1 #4/0 SDBC CONDUCTOR, BOND FROM BUILDING STEEL TO METAL STAIRCASE.
- 10 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT.
- 11 PROVIDE 1 #4/0 SDBC LPS CROSS CONNECTION CONDUCTOR UP TO UPPER ROOF AIR TERMINALS, REFER TO SHEET EG104 FOR CONTINUATION.

GENERAL NOTES

- A. REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- C. ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE FOR REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).
- D. LIGHTNING PROTECTION SYSTEM (LPS) COMPONENTS AND MATERIALS SHALL BE U.L. LISTED AND INSTALLED PER NFPA 780 AND SPECIFICATION 13100.



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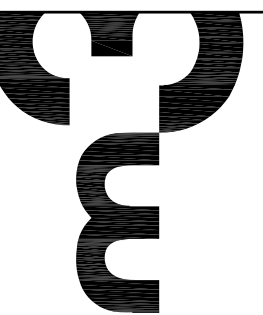
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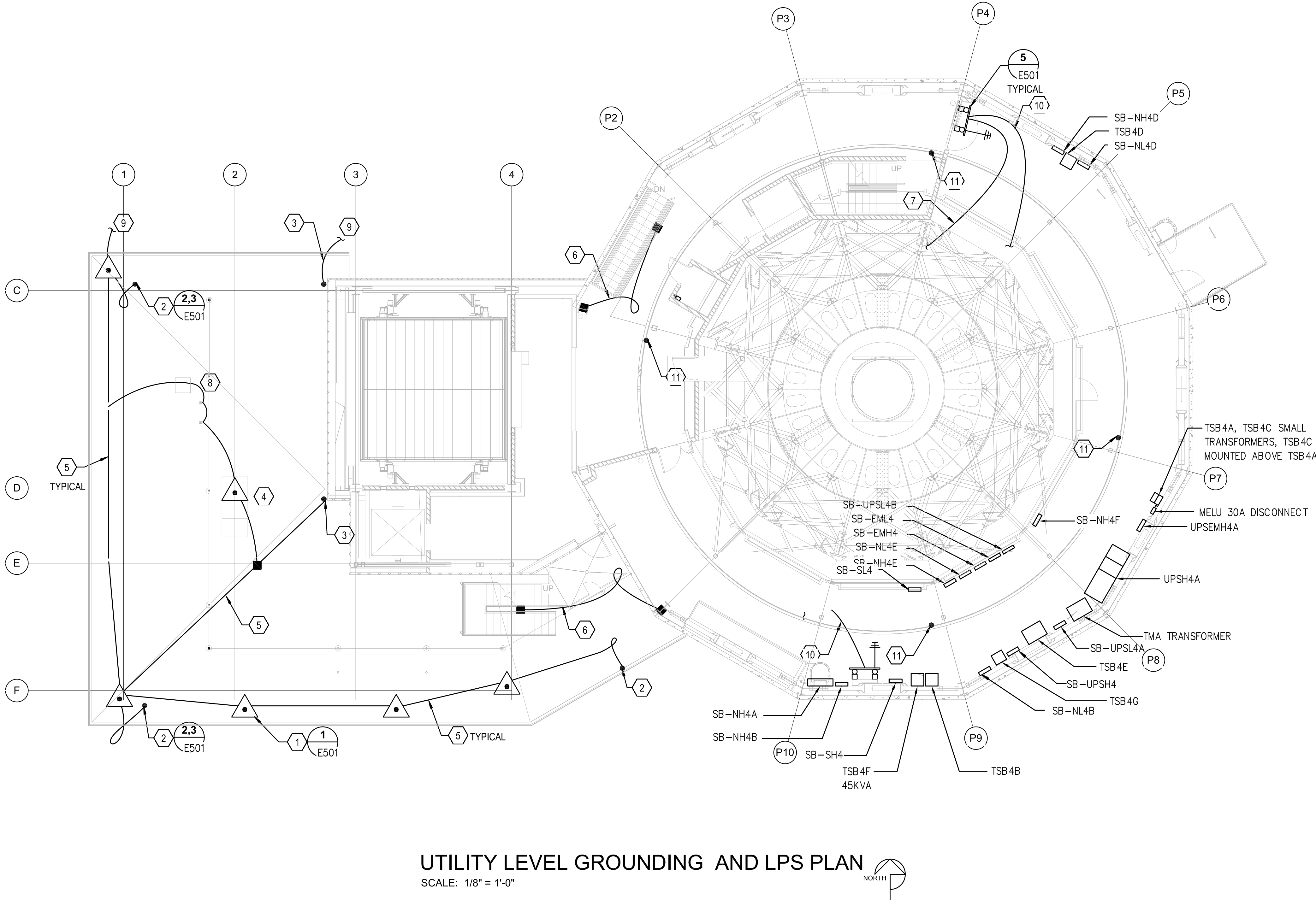
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COUDE LEVEL
GROUNDING PLAN
Sheet Number

EG103

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UTILITY LEVEL GROUNDING AND LPS PLAN

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



KEYNOTES

- 1 PROVIDE 24" [610] ALUMINUM AIR TERMINAL, SPACED AT 20' [6096] ON CENTER.
- 2 PROVIDE 1 #4/0 SDBC LPS DOWNLOAD CONDUCTOR THROUGH ROOF, THEN ROUTED VERTICALLY WITHIN BUILDING IN 3/4" PVC CONDUIT DOWN TO GES, REFER TO SHEET EG103 FOR CONTINUATION.
- 3 PROVIDE 1 #4/0 SDBC LPS CROSS CONNECTION CONDUCTOR ROUTED VERTICALLY AND EXTERNAL UP TO PLATFORM LIFT TELESCOPING ROOF, REFER TO SHEET EG105 AND EG106 FOR CONTINUATION. FASTEN CONDUCTOR TO BUILDING EXTERIOR AT 36" (914) INTERVALS PER NFPA 780.
- 4 PROVIDE 24" [610] ALUMINUM AIR TERMINAL AT ROOF MOUNTED EQUIPMENT.
- 5 PROVIDE 1 #4/0 SDBC LPS CROSS CONNECTION CONDUCTOR CONSISTING OF 1 #4/0 SDBC, TYPICAL.
- 6 PROVIDE 1 #4/0 SDBC CONDUCTOR BOND FROM BUILDING STEEL TO METAL STAIRCASE.
- 7 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT UP TO CATWALK LEVEL GROUND BUSSES, SEE SHEET EG105 FOR CONTINUATION.
- 8 BOND #4/0 SDBC TO ROOF MOUNTED PIPES, VENTS, ETC... USING PIPE CLAMPS SIZED FOR PIPE/VENT DIAMETER, ERICO #596 OR 588 SERIES OR EQUAL.
- 9 PROVIDE 1 #4/0 SDBC LPS CROSS CONNECTION CONDUCTOR DOWN TO LOWER ROOF AIR TERMINALS, REFER TO SHEET EG103 FOR CONTINUATION.
- 10 PROVIDE 1 #4/0 SDBC GROUNDING CONDUCTOR IN 3/4" CONDUIT DOWN TO COUDE LEVEL GROUND BUSSES, SEE SHEET EG103 FOR CONTINUATION.
- 11 PROVIDE 1 #4/0 SDBC LPS DOWNLOAD CONDUCTOR ROUTED VERTICALLY IN 3/4" PVC CONDUIT UP TO RING BEAM. REFER TO SHEET EG105.

GENERAL NOTES

- A. REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- C. ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE AND REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).



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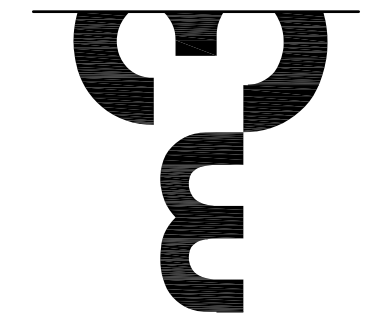
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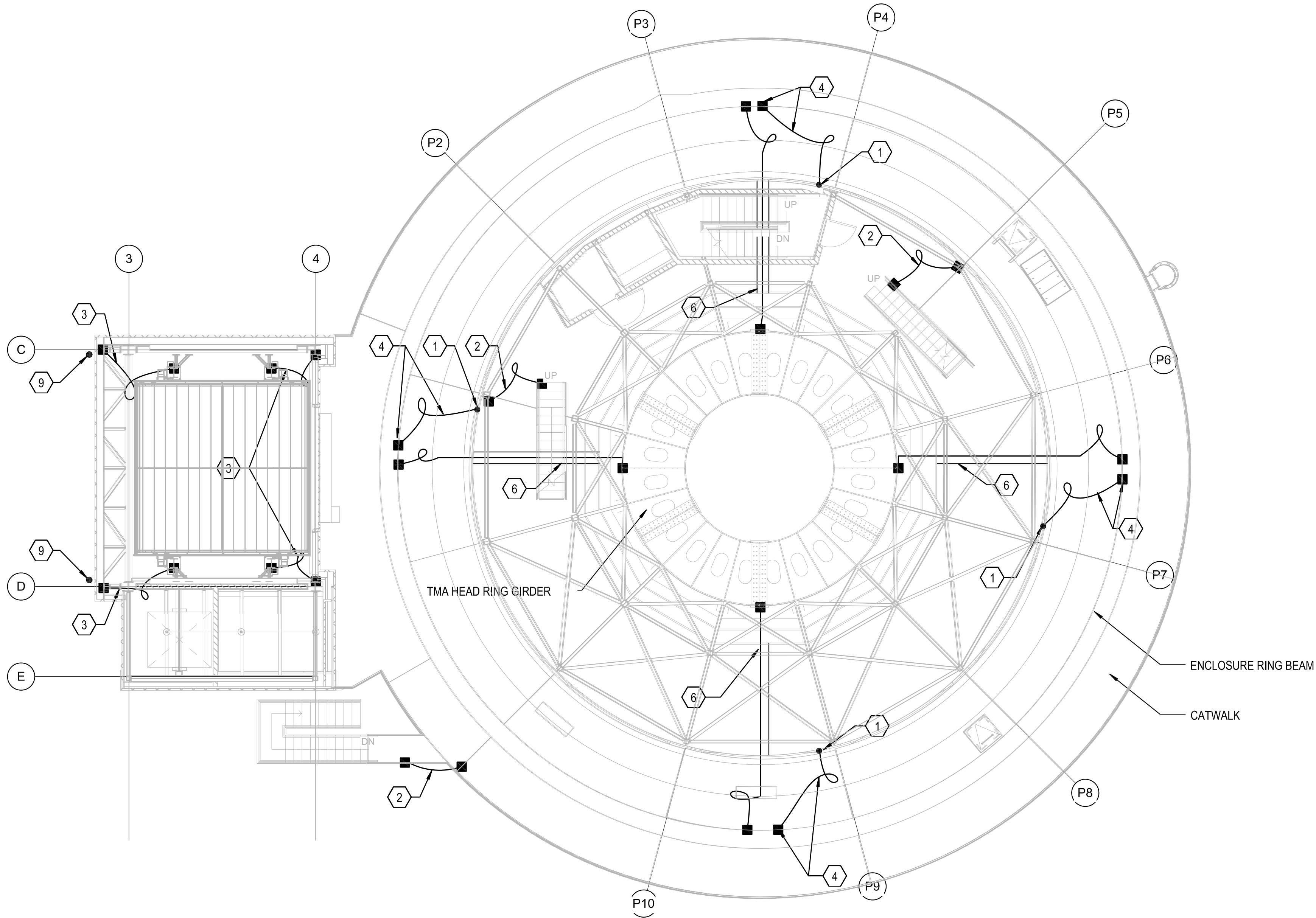
UTILITY LEVEL
GROUNDING PLAN

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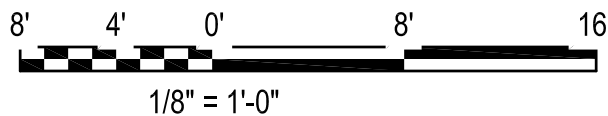
EG104

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CATWALK LEVEL GROUND PLAN
SCALE: 1/8" = 1'-0"



KEYNOTES

- 1 PROVIDE #4/0 SDBC LPS DOWNLEAD CONDUCTOR PIGTAIL ROUTED FROM BELOW FOR BONDING TO ENCLOSURERING BEAM.
- 2 PROVIDE 1 #4/0 SDBC CONDUCTOR BOND FROM BUILDING METAL STAIRCASE.
- 3 PROVIDE 1 #4/0 SDBC GROUNDING CONDCTOR IN 3/4" CONDUIT, TYPICAL FOUR (4) LOCATIONS.
- 4 PROVIDE 1 #4/0 SDBC LPS DOWNLEAD CONDUCTOR IN 3/4" CONDUIT ROUTED TO ENCLOSURE RING BEAM, BOND CONDUCTOR TO ENCLOSURE RING BEAM, TYPICAL OF FOUR (4) LOCATIONS. (12, 3, 5, AND 9 O'CLOCK POSITIONS).
- 5 NOT USED
- 6 PROVIDE 2" PVC SLEEVES THROUGH POURED CONCRETE FLOOR ON THE ENCLOSURE CABLE WRAP LEVEL WITH 1 #4/0 SDBC GROUNDING CONDUCTOR FOR BONDING TMA HEAD RING GIRDER TO ENCLOSURE RING BEAM, TYPICAL OF FOUR (4) LOCATIONS.
- 7 NOT USED
- 8 NOT USED
- 9 PROVIDE 1 3/4" SDBC LPS DOWNLEAD/CROSS CONNECTION CONDUCTOR ROUTED VERTICALLY AND EXTERNAL UP TO PLATFORM LIFT TELESCOPING ROOF AIR TERMINALS, REFER TO SHEET EG106 FOR CONTINUATION.

GENERAL NOTES

- A. REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- C. ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE AND REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).



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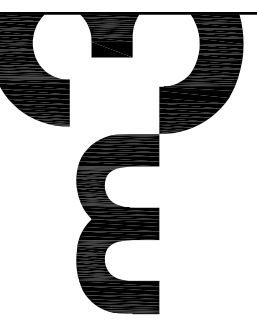
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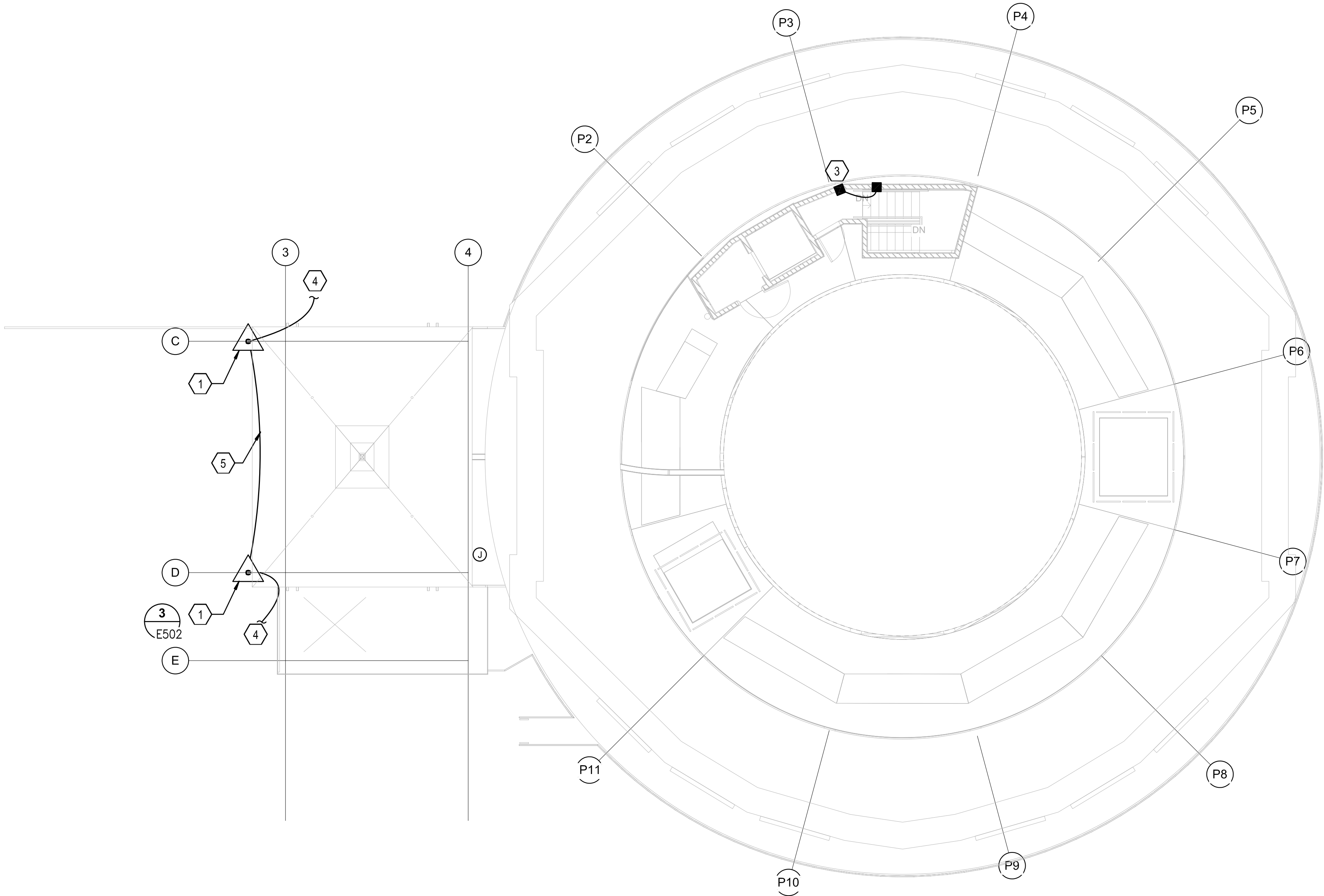
CATWALK LEVEL
GROUNDING PLAN

Sheet Number

EG105

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TELESCOPE LEVEL GROUNDING PLAN
SCALE: 1/8" = 1'-0"

KEYNOTES

- 1 PROVIDE 24" [610] ALUMINUM AIR TERMINAL MOUNTED ON PLATFORM LIFT TELESCOPING ROOF..
- 2 NOT USED
- 3 PROVIDE 1 #4/0 SDBC CONDUCTOR BOND FROM BUILDING STEEL TO METAL STAIRCASE.
- 4 PROVIDE 1 #4/0 SDBC LPS DOWNLOAD/CROSS CONNECTION CONDUCTOR ROUTED VERTICALLY AND EXTERNAL DOWN TO LOWER ROOF. REFER TO SHEET EG105 AND 104 FOR CONTINUATION. FASTEN CONDUCTOR AT 36" (914) INTERVALS PER NFPA 780..
- 5 PROVIDE LPS CROSS CONNECTION CONDUCTOR CONSISTING OF 1 #4/0 SDBC.

GENERAL NOTES

- A. REFERENCE ELECTRICAL GROUNDING DIAGRAM SHEETS E707 THROUGH E710 ELECTRICAL EQUIPMENT GROUNDING AND FOR DETAILS.
- B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #4/0 AWG SDBC.
- C. ALL GROUNDING AND BONDING SYSTEMS ITEMS SHOWN LIGHT ARE AND REFERENCE ONLY (PROVIDED UNDER SITE UTILITIES AND FOUNDATION PACKAGE).



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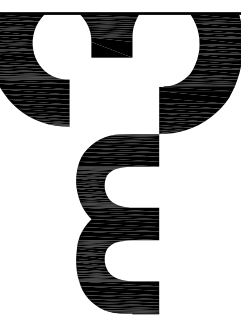
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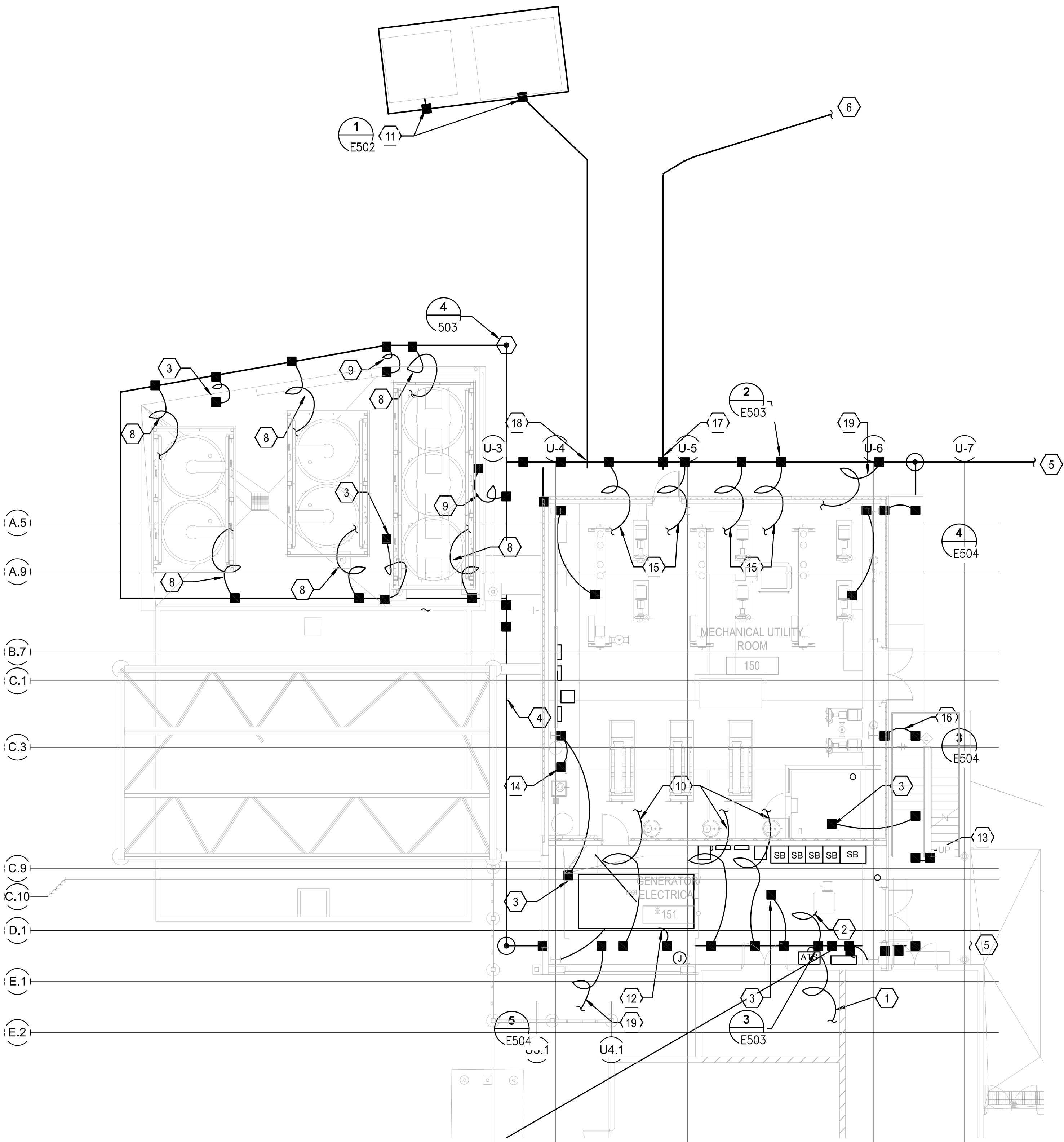
TELESCOPE LEVEL
GROUNDING PLAN

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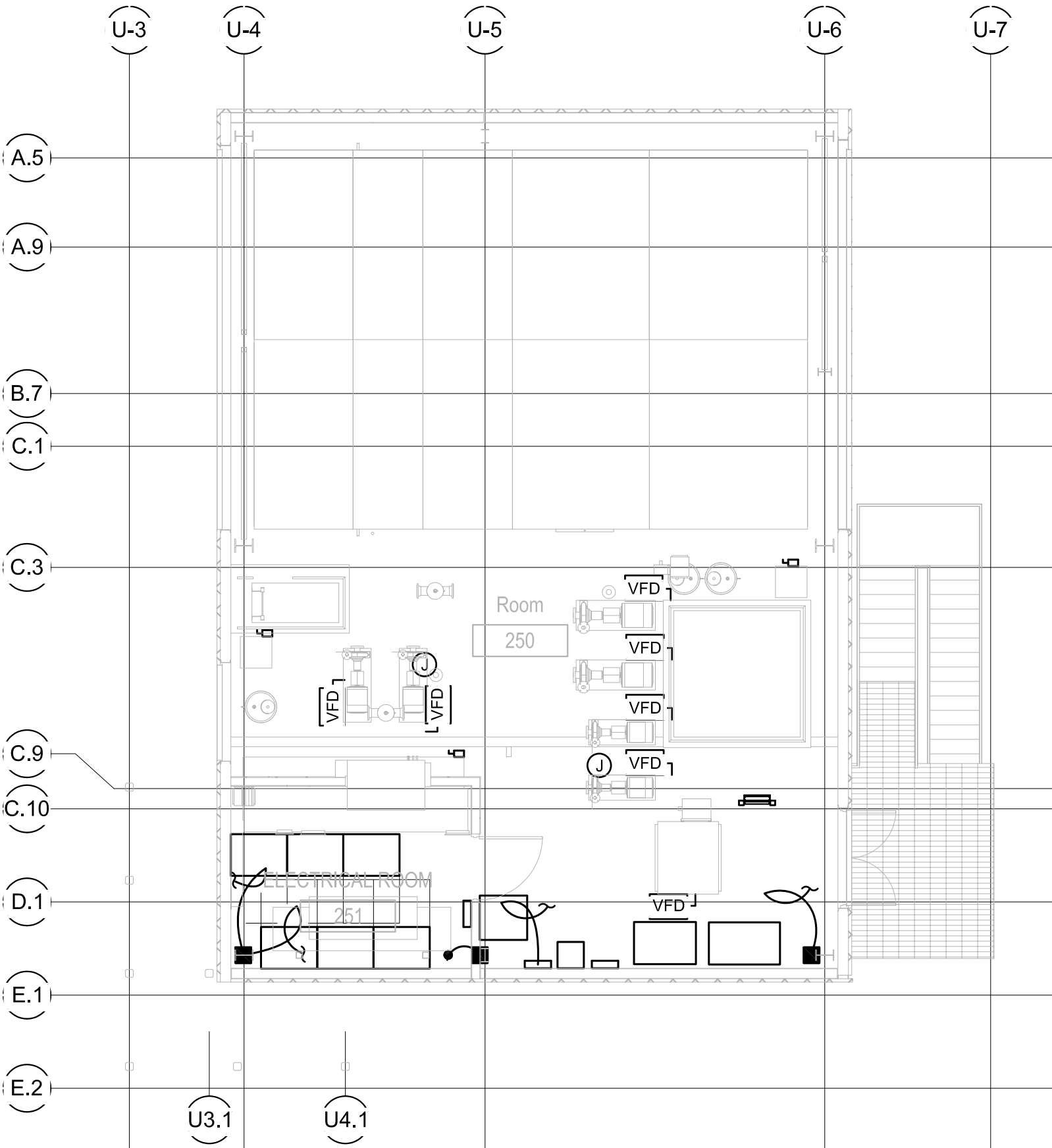
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UTILITY BUILDING GROUND FLOOR GROUNDING PLAN
SCALE: 1/8" = 1'-0"



9 UTILITY BLDG MEZZANININE T.O.S. GROUNDING PLAN
SCALE: 1/8" = 1'-0"



KEYNOTES

- EXISTING (1) #2 GROUNDING ELECTRODE TO MEES.
- EXISTING #4/0 GROUNDING ELECTRODE CONDUCTOR FOR ATST SERVICE ENTRANCE TO GES.
- EXISTING CONCRETE ENCASED #4/0 SDBC GROUNDING ELECTRODE FOR EXISTING REBAR CONNECTION TO GES.
- EXISTING #4/0 SDBC GROUND RING.
- CONTINUE (GES) ON SHEETS ES103 AND EG101.
- CONTINUED (GES) ON SHEET ES103.
- EXISTING 6" (1828.8) LONG #4/0 SDBC PIGTAIL AND CONDUCTOR DOWN TO GES FOR BONDING TO ELECTRICAL EQUIPMENT.
- PROVIDE #4/0 SDBC CONDUCTOR TO ICE TANK METAL ENCLOSURE. (TYPICAL)
- PROVIDE #4/0 CONDUCTOR GES FOR BONDING TO ICE TANK STRUCTURE.
- EXISTING #4/0 SDBC CONDUCTOR TP TO MEZZANINE LEVEL IN 3/4" (19.05) PVC CONDUIT BONDED TO ELECTRICAL EQUIPMENT.
- EXISTING GROUNDING RING AROUND TRANSFORMERS.
- EXISTING #4/0 SDBC PIGTAIL IN 3/4" (19.05) SLEEVE FROM GROUNDING RING TO GENERATOR.
- EXISTING #4/0 SDBC BONDED TO STEEL STAIRCASE.
- EXISTING #4/0 SDBC BONDED TO INTERIOR STEEL STAIR.
- EXISTING #4/0 SDBC PIGTAIL IN 3/4" (19.05) SLEEVE FROM GROUNDING RING TO MECHANICAL EQUIPMENT.
- EXISTING #4/0 SDBC BONDED TO STEEL COLUMN, TYPICAL.
- EXISTING PS-1/PS-2 BONDED GROUND CONDUCTOR.
- EXISTING (1) #4/0 TRANSFORMER GROUND CONDUCTOR.
- EXISTING 6" (1629) LONG #4/0 SDBC PIGTAIL FOR LPS DOWNLEAD CONDUCTOR CONNECTIONS. REFER TO SHEETS EGU102 AND E503 FOR CONTINUATION

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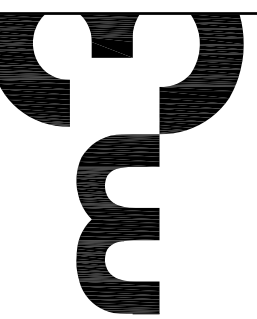
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UTILITY BLDG GROUNDING
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