

1 FLOOR PLAN - SUBSTATION BASEMENT
A-200 3/16" = 1'-0"

GENERAL NOTES

- FLOOR PLAN REFERENCES A 100'-0" BUILDING SLAB ELEVATION. REFER TO CIVIL ENGINEERING FOR ACTUAL BUILDING ELEVATION ABOVE SEA LEVEL.
- REFER TO ELECTRICAL SHEETS FOR ACTUAL EQUIPMENT DESCRIPTIONS AND CLEARANCES.
- REFER TO STRUCTURAL SHEETS FOR BUILDING AND SCREENWALL SUPPORT ELEMENTS.
- COMPLETELY SEAL ALL PENETRATIONS THROUGH THE CONCRETE WALL OF THE BASEMENT TO PREVENT WATER INFILTRATION.

KEYED NOTES

- GALVANIZED STEEL LADDER (BASEMENT)
- FLOOR DRAIN/CLEANOUT, TYPICAL. REFER TO PLUMBING
- STRUCTURAL STEEL COLUMNS. PAINT ALL EXPOSED SURFACES AND RELATED COMPONENTS, AT ALL INTERIOR AND EXTERIOR CONDITIONS - TYPICAL
- PRECAST ARCHITECTURAL CONCRETE WALL PANEL: DOUBLE-WYTHE, 4-INCH OUTSIDE AND INSIDE WITH 4-INCH THICK RIGID BOARD THERMAL INSULATION CORE - TYPICAL
- PRECAST ARCHITECTURAL CONCRETE WALL PANEL: SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL
- 12-INCH THICK, CAST-IN-PLACE CONCRETE WALL; REFER TO STRUCTURAL
- UNFINISHED CONCRETE WALL SURFACE
- SEALED CONCRETE FLOOR SLAB
- ELECTRICAL EQUIPMENT; REFER TO ELECTRICAL TYP
- MODIFIED BITUMINOUS SHEET WATERPROOFING: FULL-PERIMETER, FROM BOTTOM OF CONCRETE FOOTING TO WITHIN 4-INCHES OF FINISH GRADE. LAP OVER THE VAPOR BARRIER FROM UNDER THE SLAB-ON-GRADE.
- 6-INCH THICK CONCRETE LANDING, DOWEL-ANCHOR TO FACE OF CONCRETE WALL, SLOPE AWAY FROM BUILDING 1:20
- ROOM TO BE SMOKE RATED. REF 804-501 AS TYPICAL FOR ALL SMOKE RATED ROOMS.

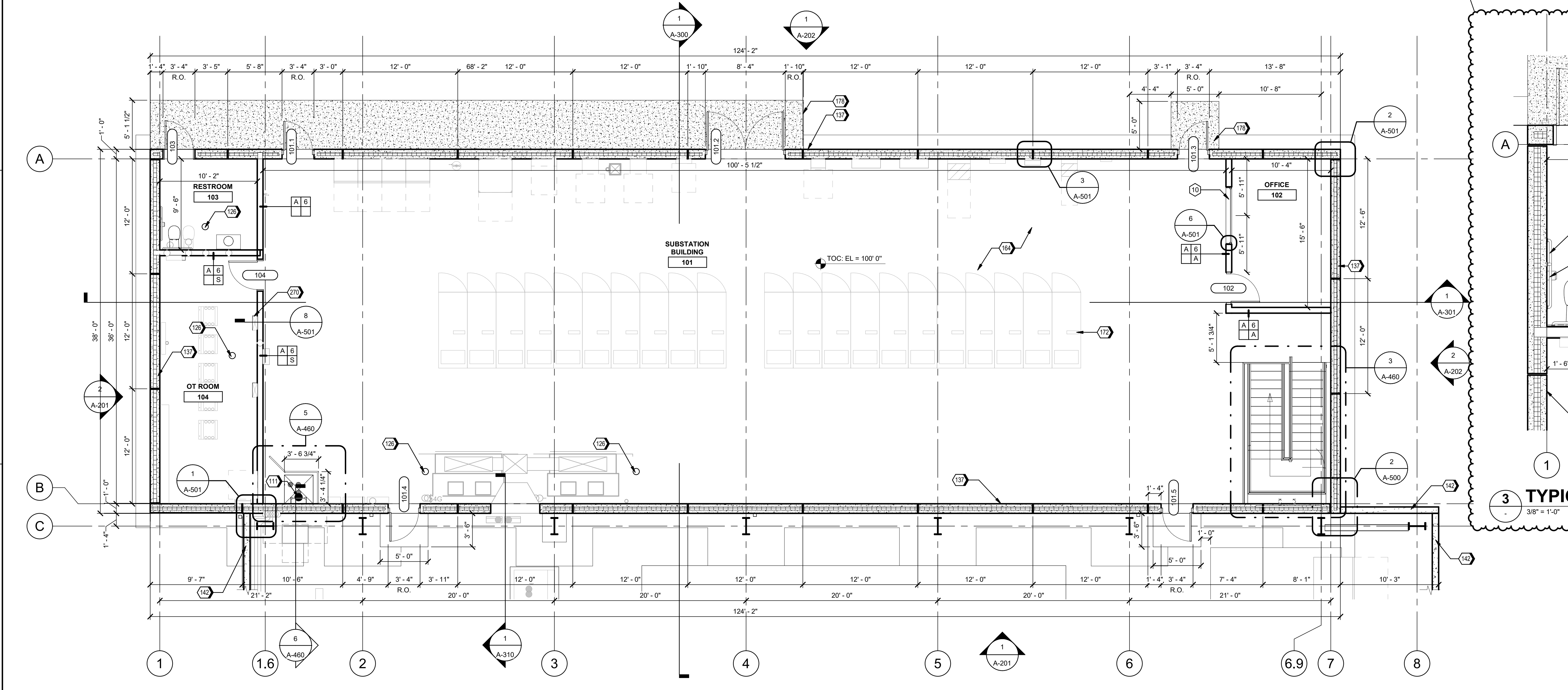
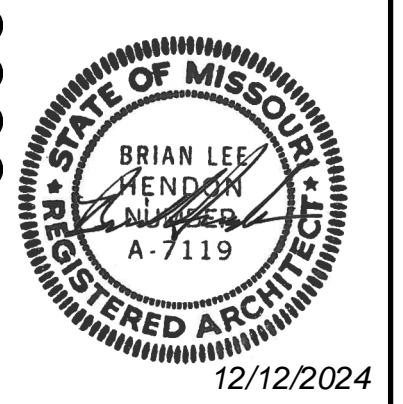
FINISH PLAN GENERAL NOTES

- ALL WALLS AND CEILING TO BE PAINTED UNLESS OTHERWISE NOTED
- ALL FLOORS TO BE SEALED CONCRETE UNLESS NOTED OTHERWISE
- GYPSUM BOARD PARTITIONS THAT ARE WET WALLS OR ADJACENT TO WET WALLS ARE TO BE COVERED WITH PLASTIC PANELING TO A HEIGHT OF 4'-0" A.F.F. PROVIDE 4" COVERED RUBBER BASE AT THE BASE OF ALL GYPSUM BOARD PARTITIONS WITH OR WITHOUT PANELING
- PAIN, STAIN, AND COATING COLORS NOT IDENTIFIED SHALL BE SELECTED BY THE OWNER OR ARCHITECT.
- EXTERIOR PRECAST CONCRETE TO BE PAINTED ON THE INTERIOR AND THE EXTERIOR WILL BE STAINED WITHIN IDENTIFIED REVEAL AREAS - REFER TO ELEVATIONS FOR LOCATIONS

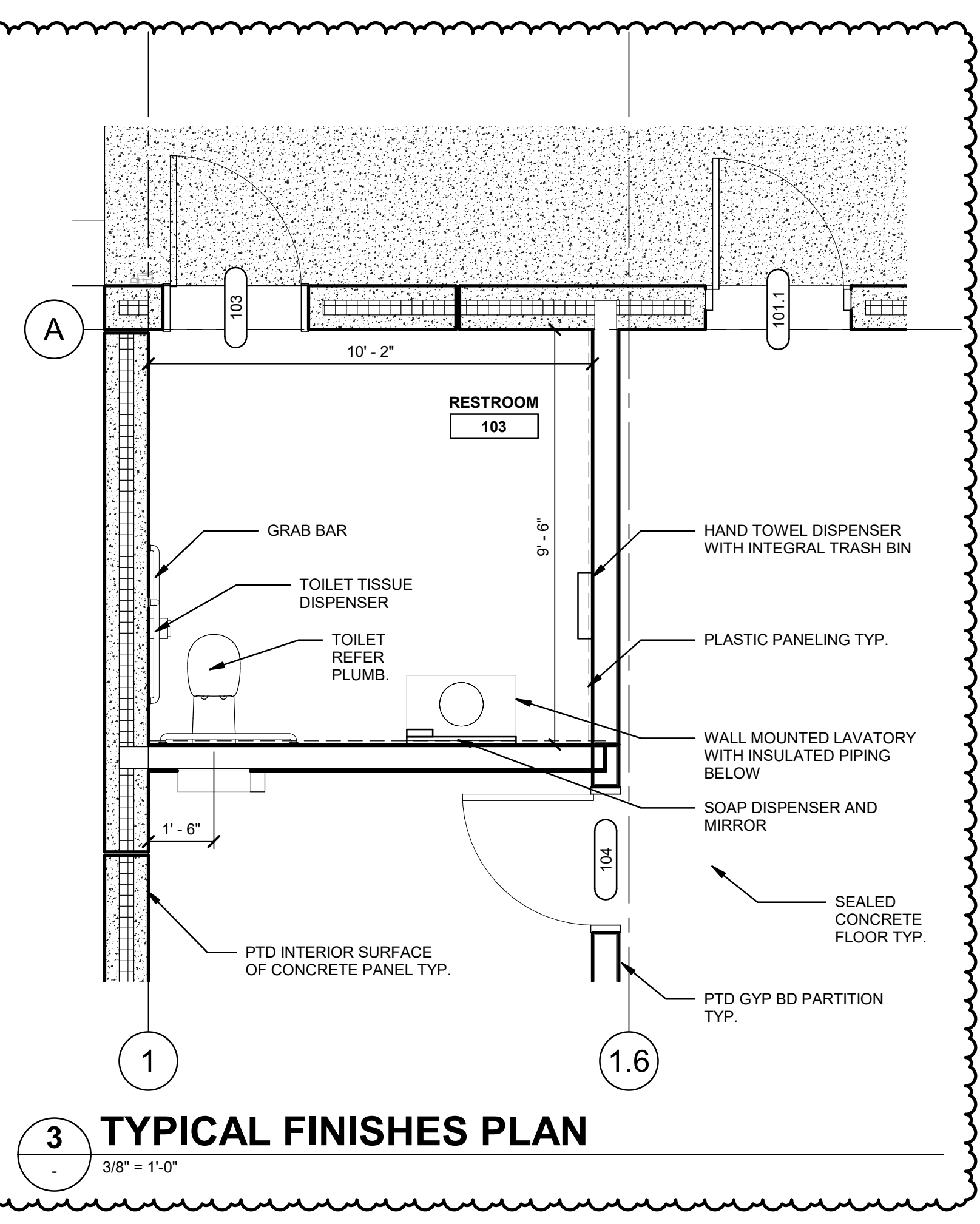
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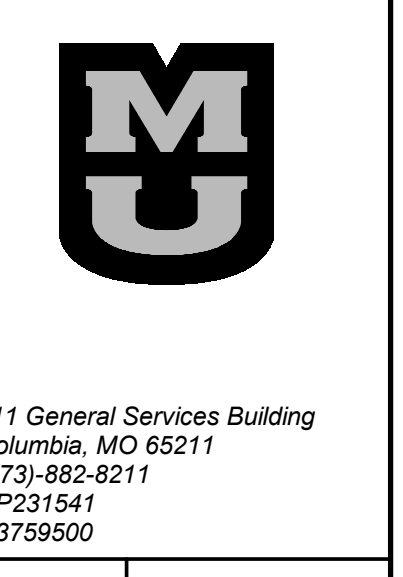


2 FLOOR PLAN - LEVEL 1 - SUBSTATION BUILDING
A-101 3/16" = 1'-0"



3 TYPICAL FINISHES PLAN
3/8" = 1'-0"

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Project Title: GENERAL SITE - VIRGINIA AVENUE SUBSTATION AND UNDERGROUND DUCTBANK
Drawing Title: FLOOR PLAN - SUBSTATION BUILDING

Date: 12/11/24
Proj. No.: D3750400
Drawing No.: A-102

GENERAL NOTES

- A. TOP OF SCREENWALL / BUILDING DIMENSIONS ARE NOTED ON ELEVATION.
- B. CMU WALL DIMENSIONS ARE TO CENTER OF JOINT.
- C. PROVIDE LANDING / EGRESS STAIR AT EXITS AS REQUIRED PER FINAL GRADE ELEVATION. REFER TO CIVIL DRAWINGS FOR FINAL GRADES.

KEYED NOTES

- 109 WALL MOUNTED OUTDOOR LIGHT, REFER TO ELECTRICAL
- 136 AUTOMATED ONE PIECE SLIDING GATE, SEE DOOR SCHEDULE.
- 137 PRECAST ARCHITECTURAL CONCRETE WALL PANEL: DOUBLE-WYTHE - 4-INCH OUTSIDE AND INSIDE WITH 4-INCH THICK RIGID BOARD THERMAL INSULATION CORE - TYPICAL
- 139 PERFORATED FLAT METAL PANEL WITH CUSTOM GRAPHICS PATTERN
- 142 PRECAST ARCHITECTURAL CONCRETE WALL PANEL: SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL
- 218 EXPANSION JOINT BETWEEN PRECAST PANELS: CONTINUOUS SEALANT ON BACKER ROD EACH SIDE, FULL-HEIGHT OF WALL PANEL - TYPICAL
- 230 LOUVER, FINISH: GF-103 TYP. REFER TO MECHANICAL
- 249 PREFINISHED 24GA. METAL REVEAL

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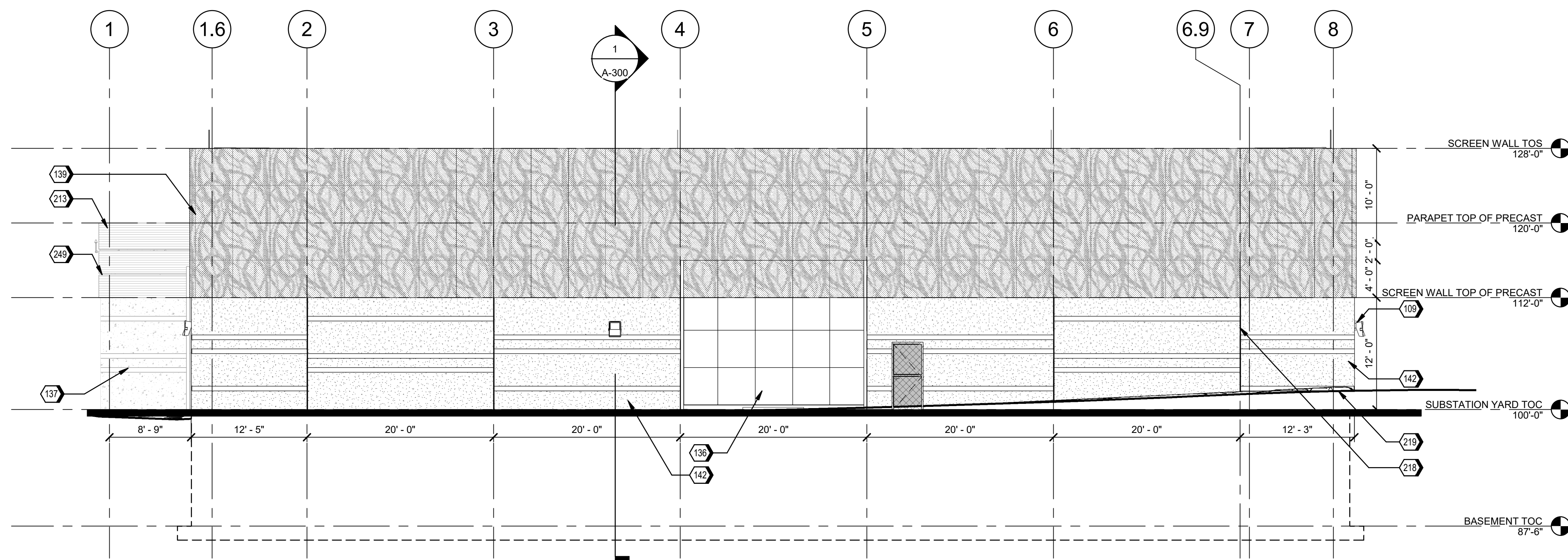


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Project Title: GENERAL SITE - VIRGINIA AVENUE SUBSTATION AND UNDERGROUND DUCTBANK
Drawing Title: EXTERIOR ELEVATIONS - SUBSTATION SCREEN WALL

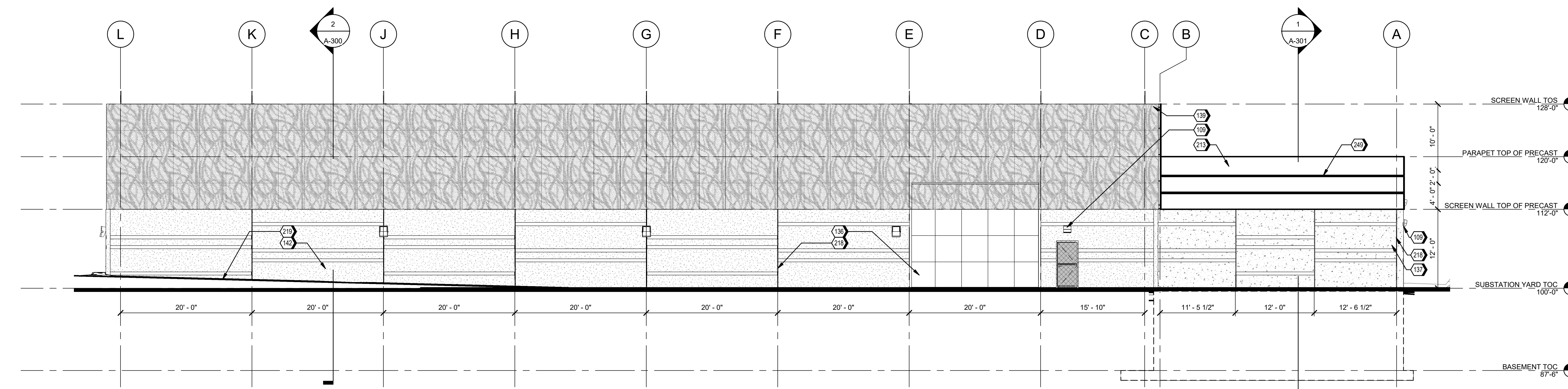
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A-200



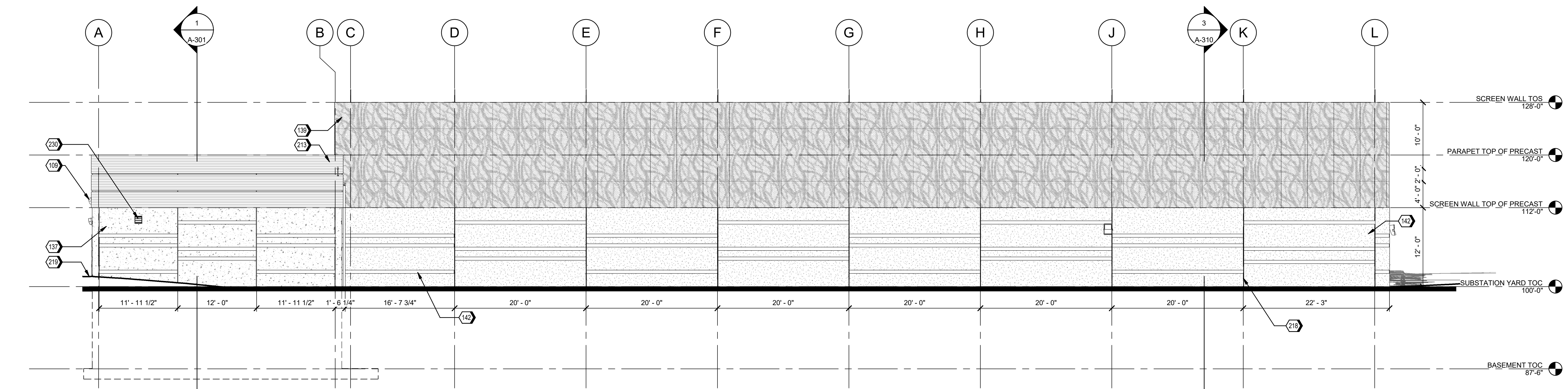
3 WEST ELEVATION

A-101 1/8" = 1'-0"



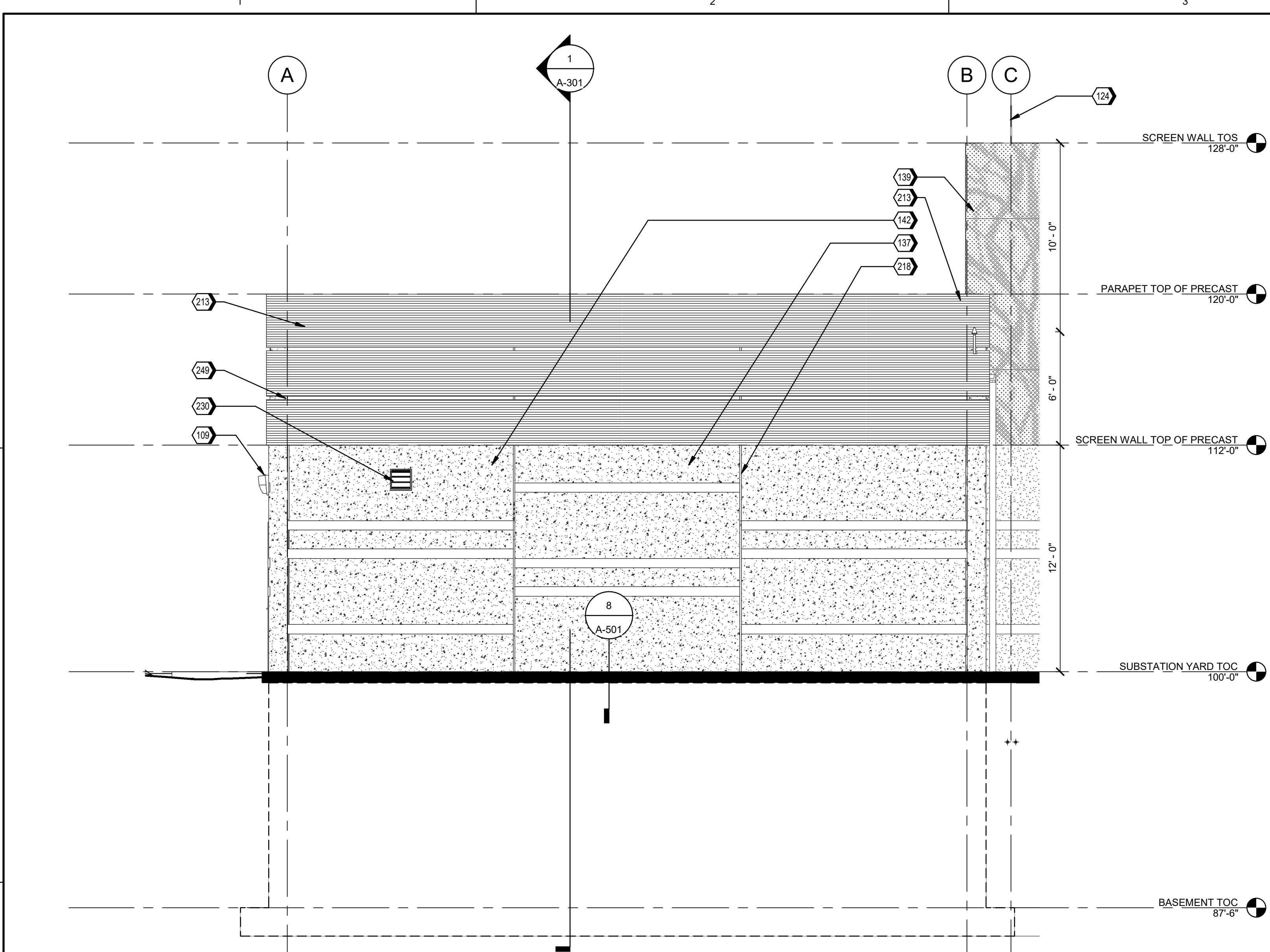
2 SOUTH ELEVATION

A-101 1/8" = 1'-0"



1 NORTH ELEVATION

A-101 1/8" = 1'-0"



GENERAL NOTES

A. TOP OF SCREENWALL / BUILDING DIMENSIONS ARE NOTED ON ELEVATION.

B. CMU WALL DIMENSIONS ARE TO CENTER OF JOINT.

C. PROVIDE LANDING / EGRESS STAIR AT EXITS AS REQUIRED PER FINAL GRADE ELEVATION. REFER TO CIVIL DRAWINGS FOR FINAL GRADES.

KEYED NOTES

109 WALL MOUNTED OUTDOOR LIGHT. REFER TO ELECTRICAL

124 LIGHTNING PROTECTION TERMINAL. REFER TO ELECTRICAL

137 PRECAST ARCHITECTURAL CONCRETE WALL PANEL. DOUBLE-WYTHE, 4-INCH OUTSIDE AND INSIDE WITH 4-INCH THICK RIGID BOARD THERMAL INSULATION CORE-TYPICAL

139 PERFORATED FLAT METAL PANEL WITH CUSTOM GRAPHICS PATTERN

142 PRECAST ARCHITECTURAL CONCRETE WALL PANEL. SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL

143 12" INSULATED PRECAST CONCRETE WALL

201 4"x8" PREFINISHED SHEET METAL DOWNSPOUT CONNECTED TO STORMWATER; REFER TO CIVIL. REFER TO DETAIL 1 ON SHEET A-302

215 PERFORATED FLAT METAL PANEL WITH CUSTOM GRAPHICS PATTERN

216 EXPANSION JOINT BETWEEN PRECAST PANELS. CONTINUOUS SEALANT ON BACKER ROD EACH SIDE. FULL HEIGHT OF WALL PANEL - TYPICAL

217 PERFORATED FLAT METAL PANEL WITH CUSTOM GRAPHICS PATTERN

249 PREFINISHED 24GA. METAL REVEAL

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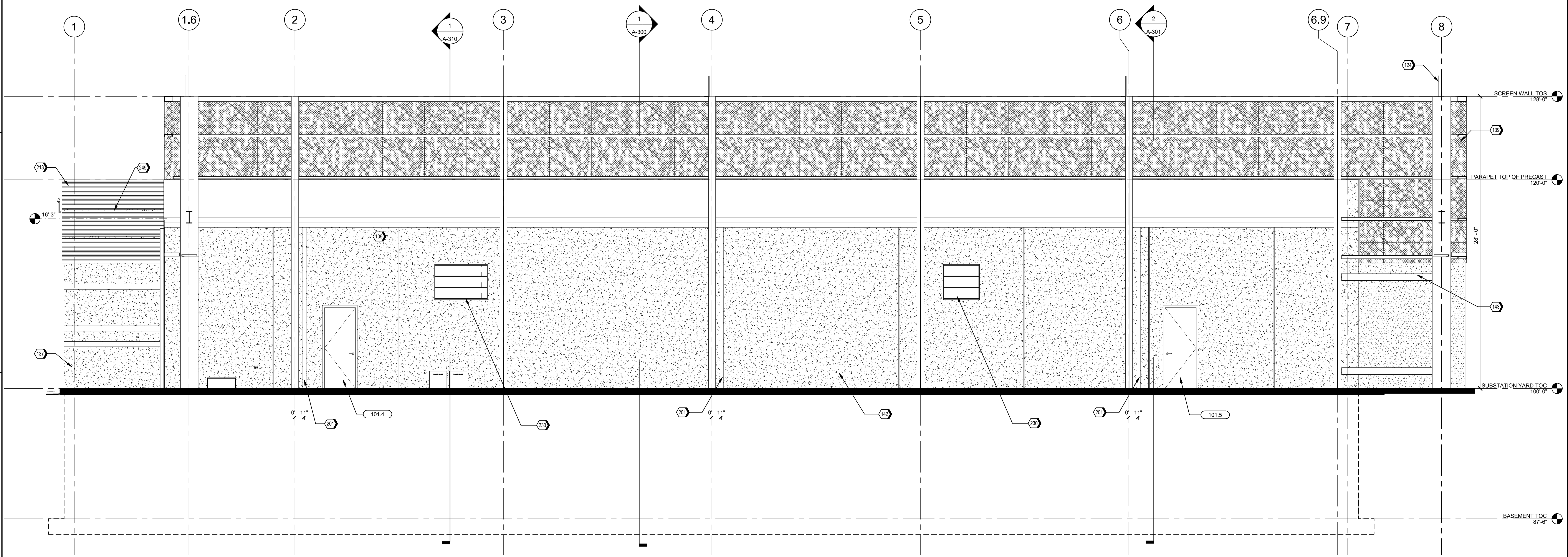
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2 NORTH ELEVATION - SUBSTATION BUILDING
A-102 1/4" = 1'-0"



1 WEST ELEVATION - SUBSTATION BUILDING
A-101 1/4" = 1'-0"



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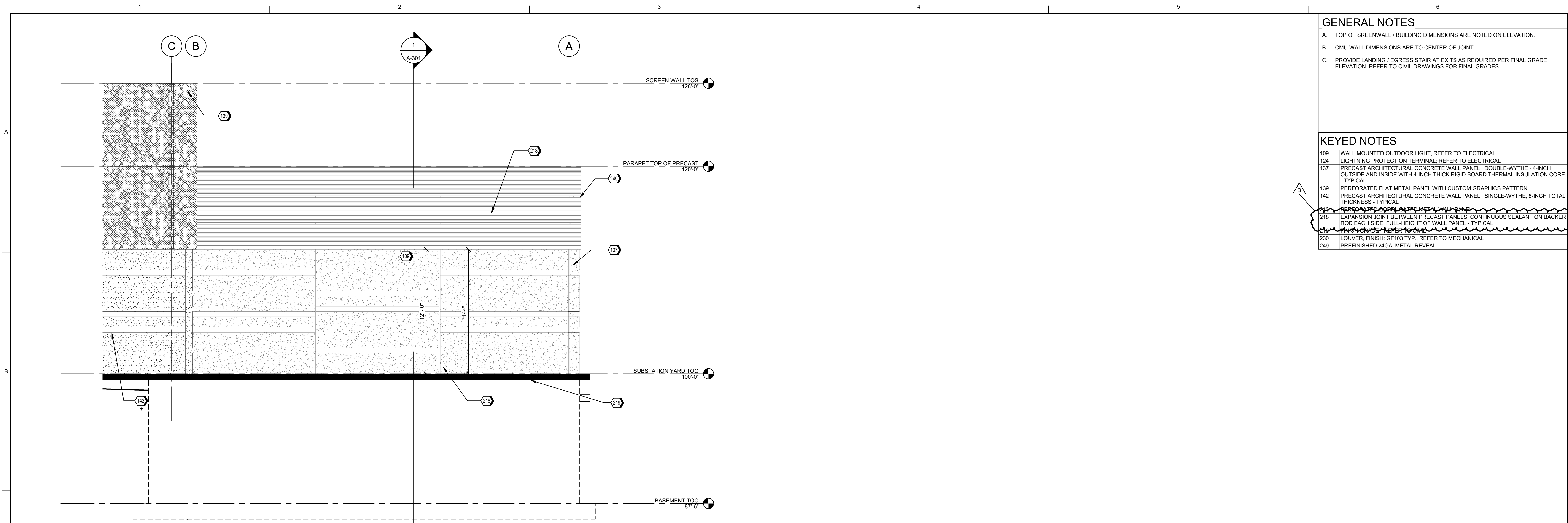


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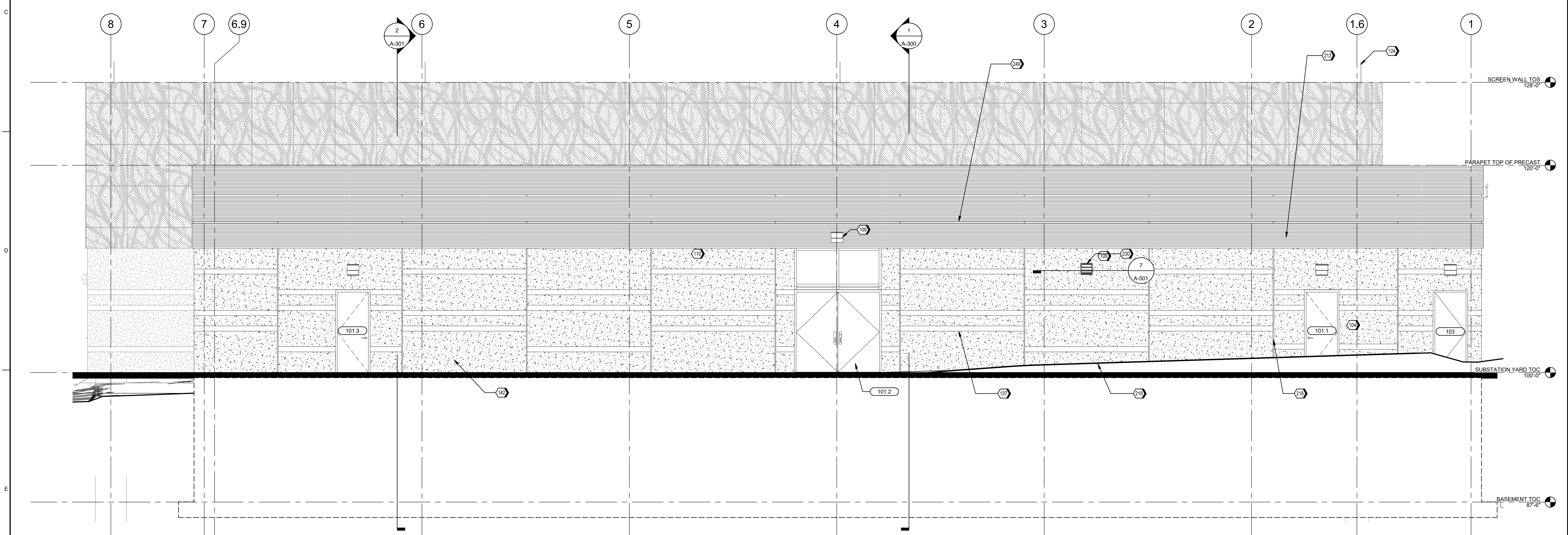
Project Title:
GENERAL SITE - VIRGINIA AVENUE SUBSTATION
AND UNDERGROUND DUCTBANK

Drawing Title:
EXTERIOR ELEVATIONS -
SUBSTATION BUILDING

Date: 12/11/24
Proj. No.: D3750400
Drawing No.: A-201



2 SOUTH ELEVATION - SUBSTATION BUILDING
A-102 1/4" = 1'-0"



1 EAST ELEVATION - SUBSTATION BUILDING
A-101 1/4" = 1'-0"

- GENERAL NOTES**
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 - B. CMU WALL DIMENSIONS ARE TO CENTER OF JOINT.
 - C. PROVIDE LANDING / EGRESS STAIR AT EXITS AS REQUIRED PER FINAL GRADE ELEVATION. REFER TO CIVIL DRAWINGS FOR FINAL GRADES.
- KEYED NOTES**
- 109 WALL MOUNTED OUTDOOR LIGHT. REFER TO ELECTRICAL
 - 124 LIGHTNING PROTECTION TERMINAL. REFER TO ELECTRICAL
 - 137 PRECAST ARCHITECTURAL CONCRETE WALL PANEL. DOUBLE-WYTHE, 4-INCH OUTSIDE AND INSIDE WITH 4-INCH THICK RIGID BOARD THERMAL INSULATION CORE - TYPICAL
 - 139 PERFORATED FLAT METAL PANEL WITH CUSTOM GRAPHICS PATTERN
 - 142 PRECAST ARCHITECTURAL CONCRETE WALL PANEL. SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL
 - 142 PRECAST ARCHITECTURAL CONCRETE WALL PANEL. SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL
 - 218 EXPANSION JOINT BETWEEN PRECAST PANELS. CONTINUOUS SEALANT ON BACKER ROD EACH SIDE. FULL-HEIGHT OF WALL PANEL - TYPICAL
 - 230 LOUVER. FINISH: GF103 TYP. REFER TO MECHANICAL
 - 249 PREFINISHED 24GA. METAL REVEAL

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Drawing Title: EXTERIOR ELEVATIONS - SUBSTATION BUILDING

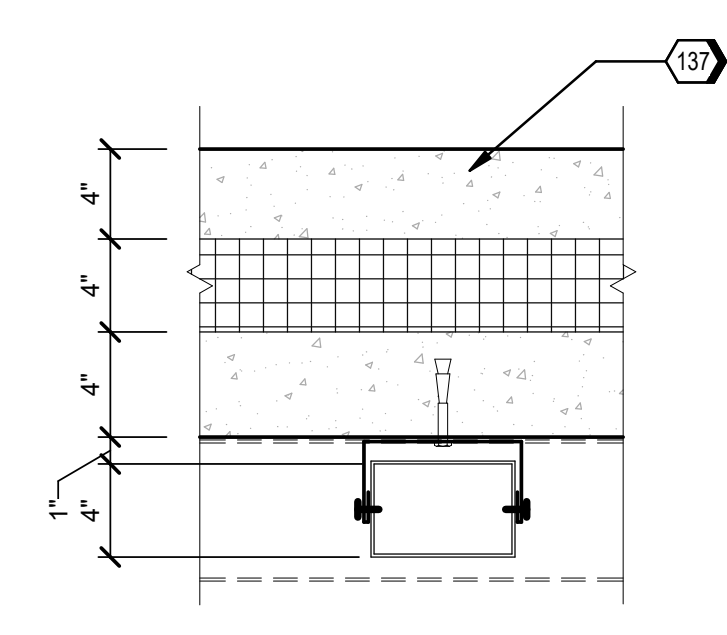
Date: 12/11/24
Proj. No.: D3750400
Drawing No.: A-202

KEYED NOTES	
135	STRUCTURAL STEEL COLUMNS: PAINT ALL EXPOSED SURFACES AND RELATED COMPONENTS, AT ALL INTERIOR AND EXTERIOR CONDITIONS - TYPICAL
137	PRECAST ARCHITECTURAL CONCRETE WALL PANEL: DOUBLE-WYTHE - 4-INCH OUTSIDE AND INSIDE WITH 4-INCH THICK RIGID BOARD THERMAL INSULATION CORE - TYPICAL
142	PRECAST ARCHITECTURAL CONCRETE WALL PANEL: SINGLE-WYTHE, 8-INCH TOTAL THICKNESS - TYPICAL
154	MECHANICAL DUCTWORK, TYPICAL: REFER TO MECHANICAL
201	4"x6" PREFINISHED SHEET METAL DOWNSPOUT CONNECTED TO STORMWATER: REFER TO CIVIL, REFER TO DETAIL 1.01 SHEET A-501
218	EXPANSION JOINT BETWEEN PRECAST PANELS: CONTINUOUS SEALANT ON BACKER ROD EACH SIDE, FULL HEIGHT OF WALL PANEL - TYPICAL
220	CONCRETE SLAB REFERENCE STRUCTURE
230	LOUVER, FINISH: GF103 TYP. - REFER TO MECHANICAL
261	PARTITION AS SCHEDULED
262	ALUM STOREFRONT WINDOW SYSTEM
263	1/4" CAULK JOINT
264	PERIMETER SEALANT BED
265	FULL BED SEALANT
266	PREFINISHED METAL LOUVER ANCHOR AS REQUIRED TO MEET WIND LOAD CONDITIONS
267	SHIM
268	SILL FLASHING WITH END DAMS
269	BLOCKING BY PRECASTER

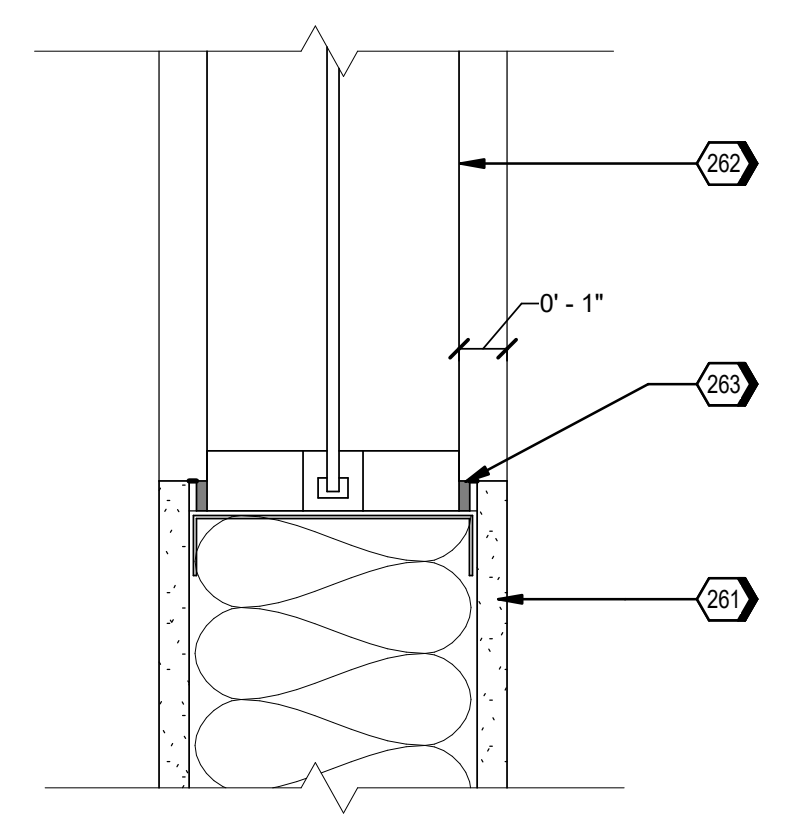
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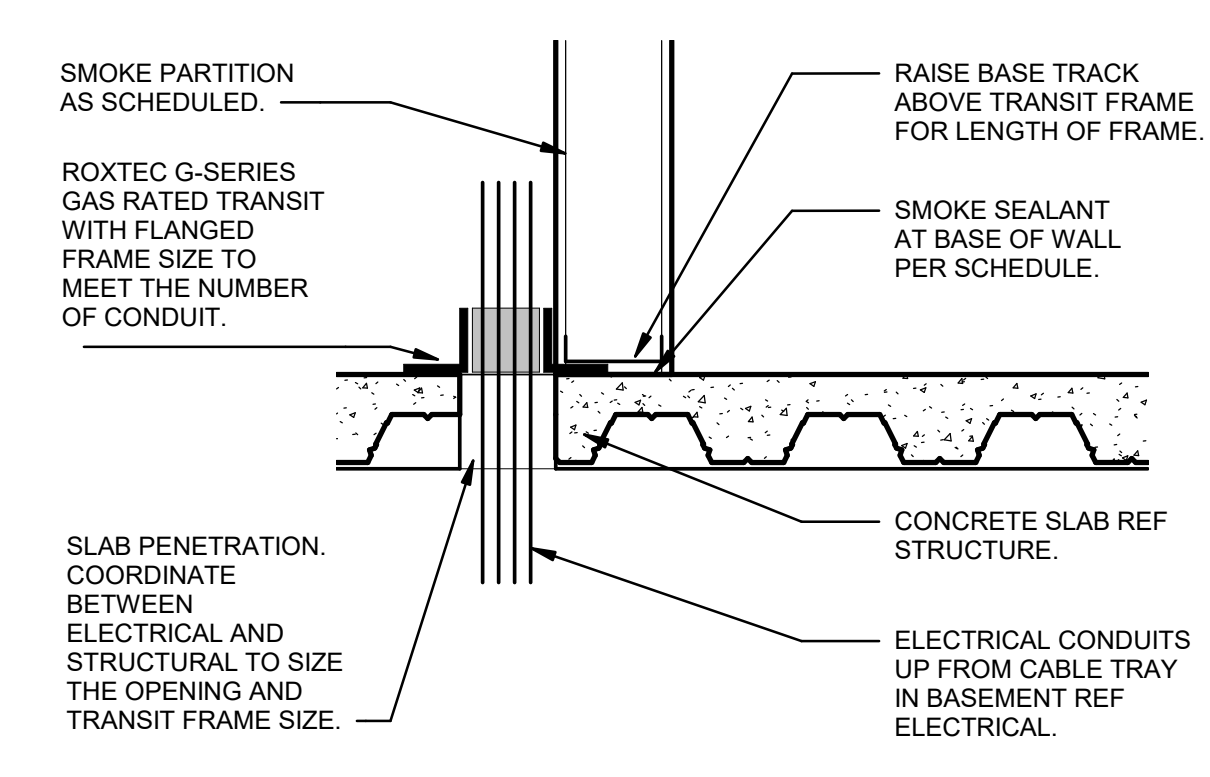
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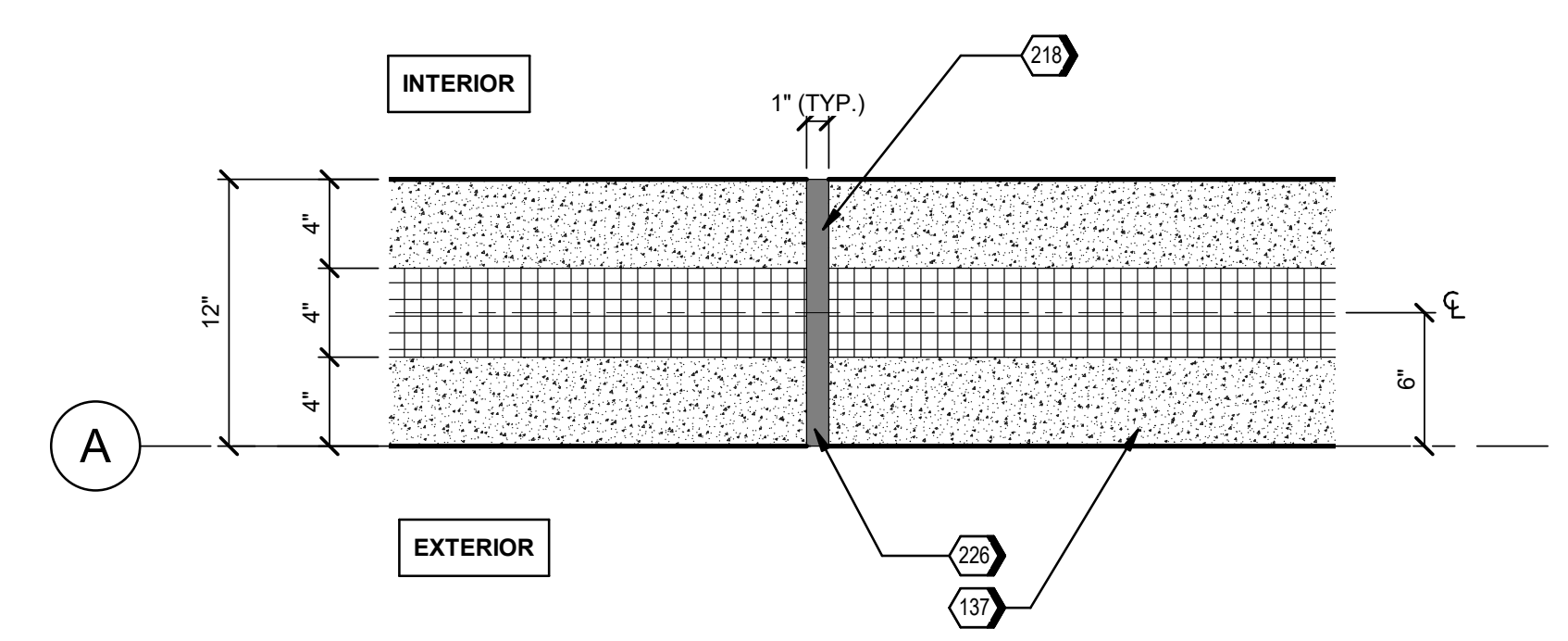
5 PLAN DETAIL - METAL DOWNSPOUT TYP.
 A-104 1 1/2" = 1'-0"



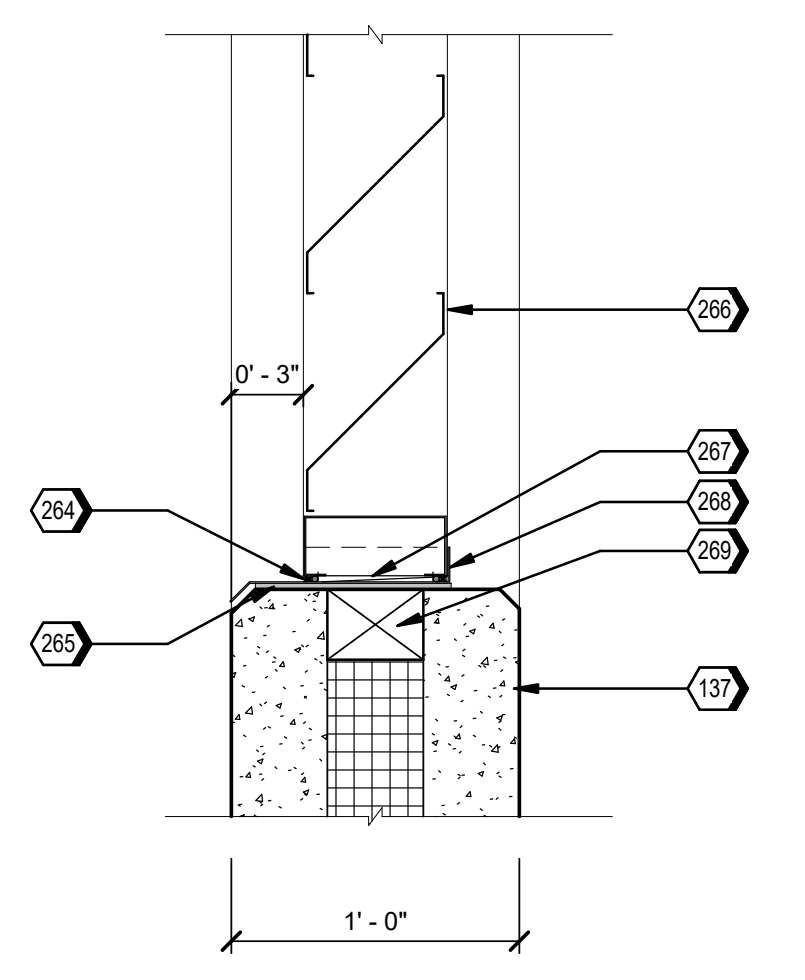
6 WINDOW JAMB/HEAD/SILL
 A-102 3" = 1'-0"



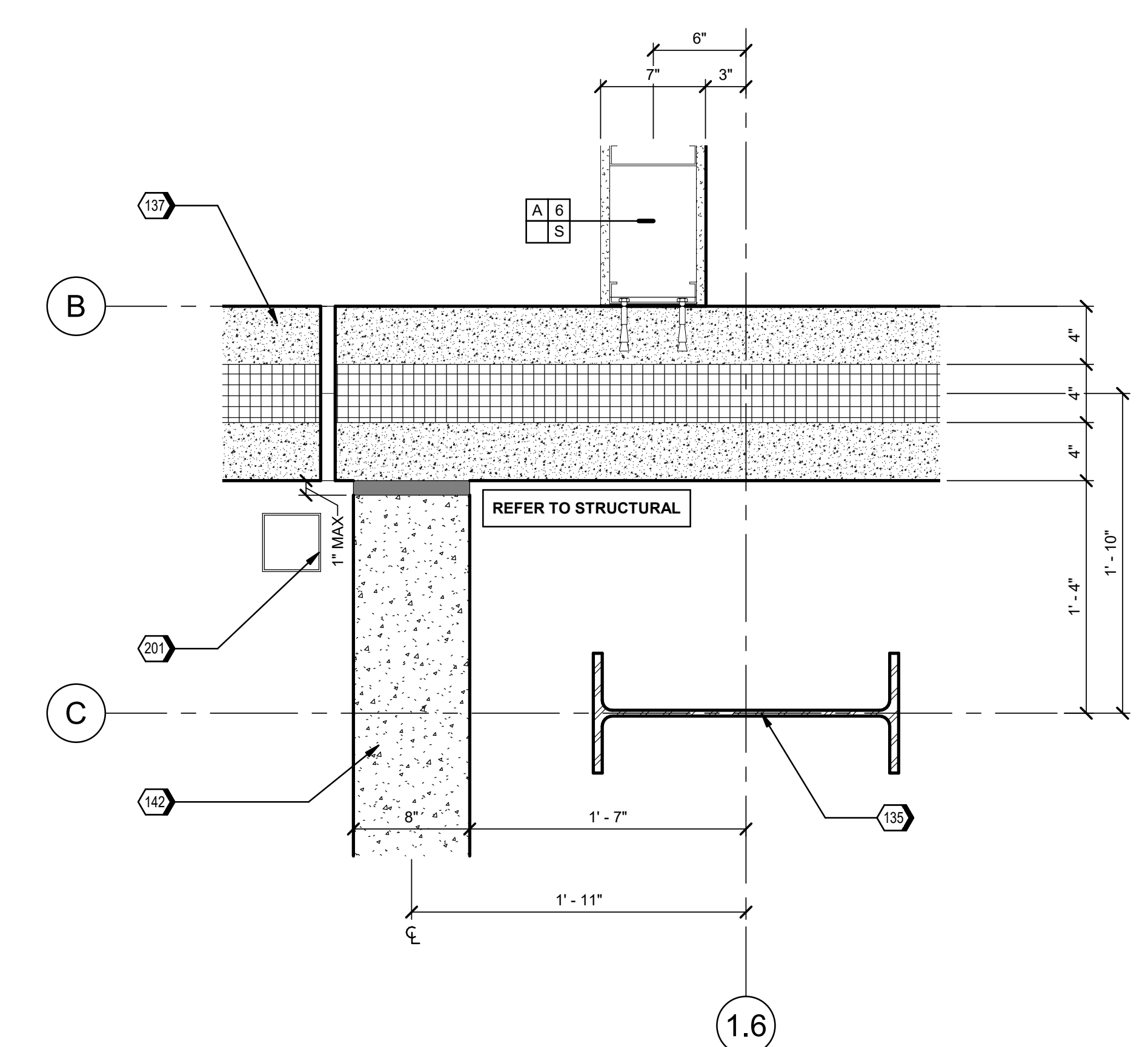
8 TYPICAL SMOKE RATED FLOOR PENETRATION DETAIL
 1" = 1'-0"



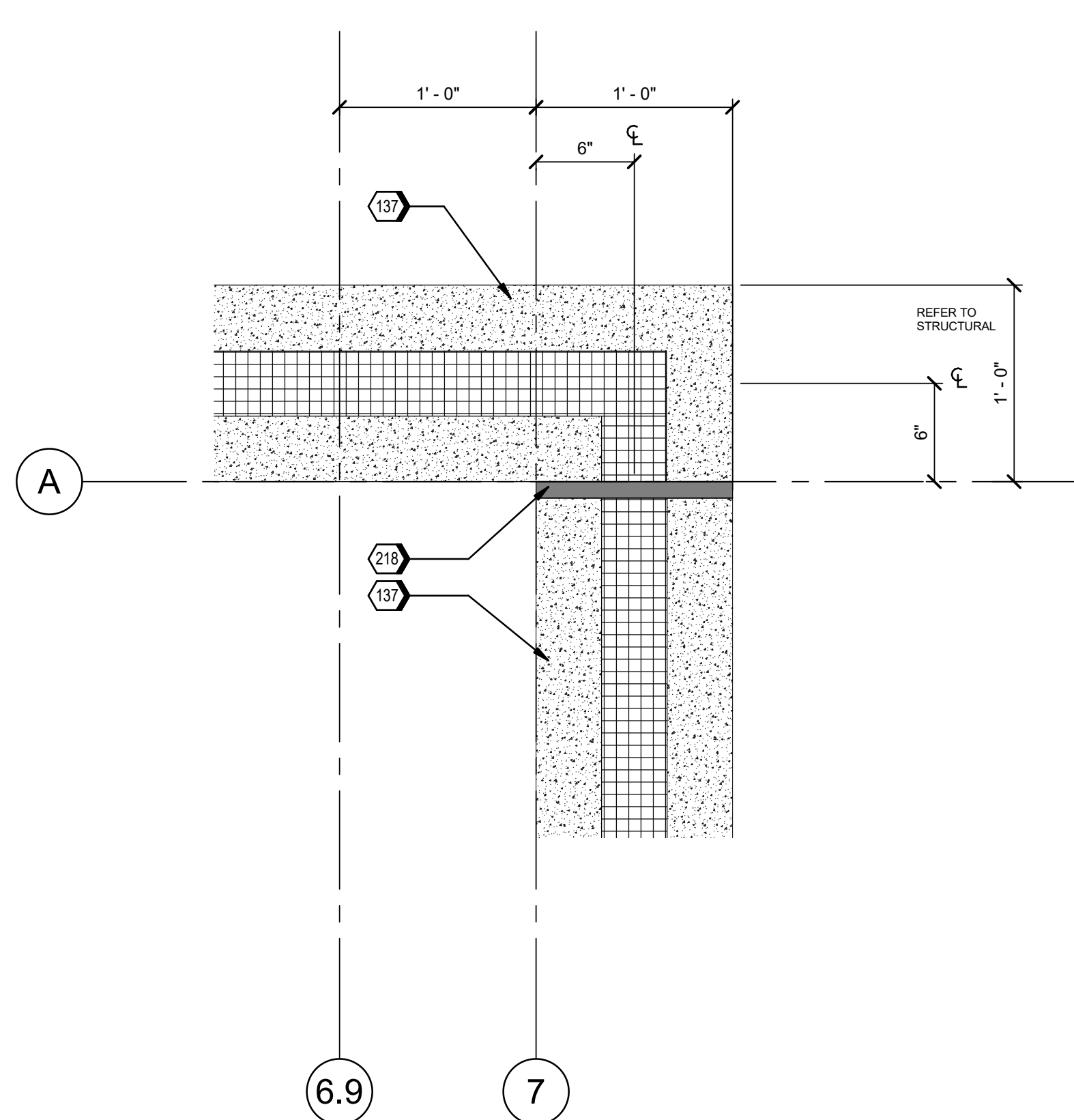
3 PLAN DETAIL - WALL JOINTS @ SUBSTATION BUILDING
 A-102 1 1/2" = 1'-0"



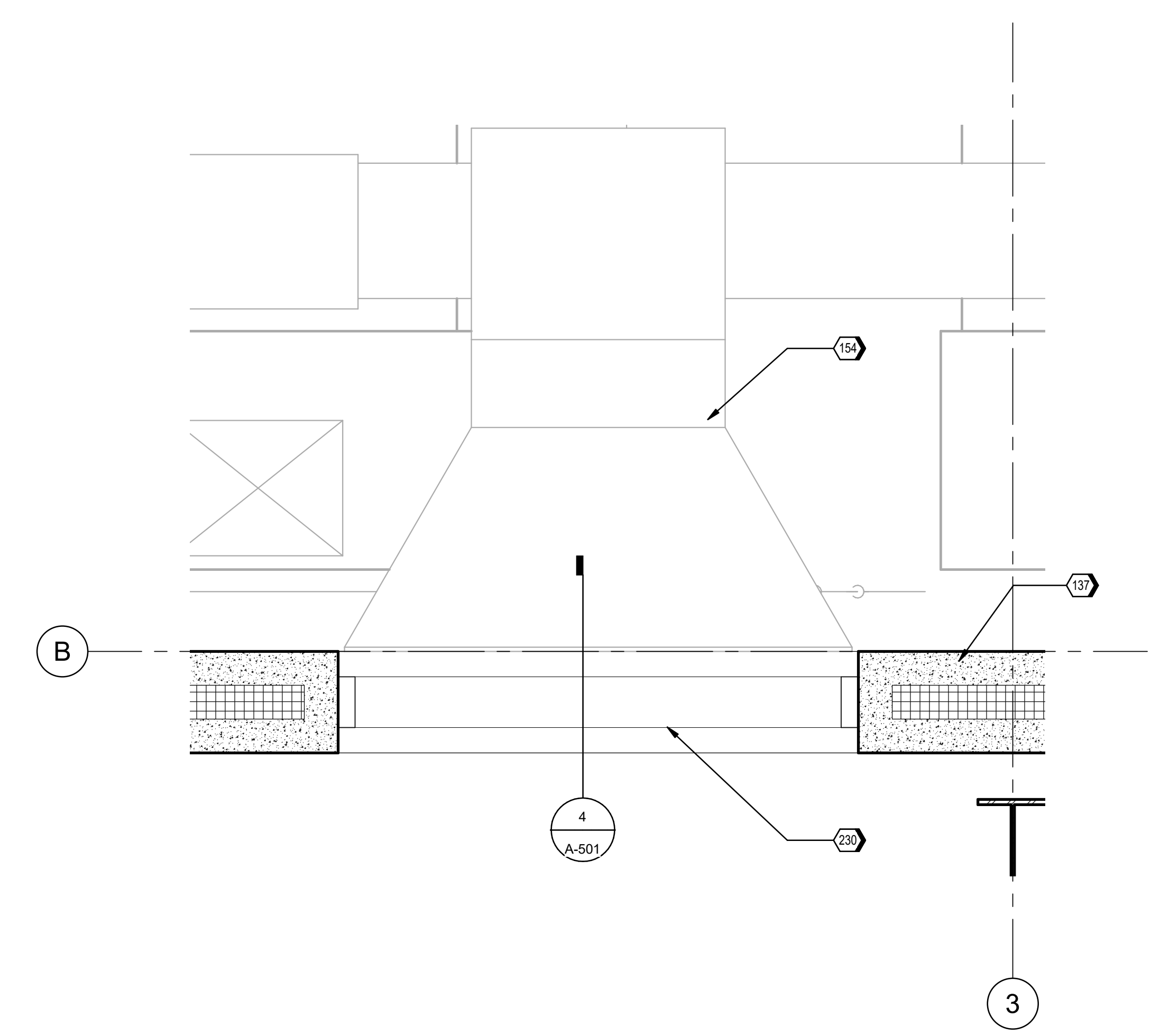
4 LOUVER SILL DETAIL (HEAD/JAMB SIM)
 1 1/2" = 1'-0"



1 PLAN DETAIL - WALL INTERSECTION @ SUBSTATION BLDNG AND YARD
 A-102 1 1/2" = 1'-0"



2 PLAN DETAIL - CORNER JOINT @ SUBSTATION BUILDING
 A-102 1 1/2" = 1'-0"



7 PLAN DETAIL - DUCTWORK PENETRATION
 A-105 1" = 1'-0"



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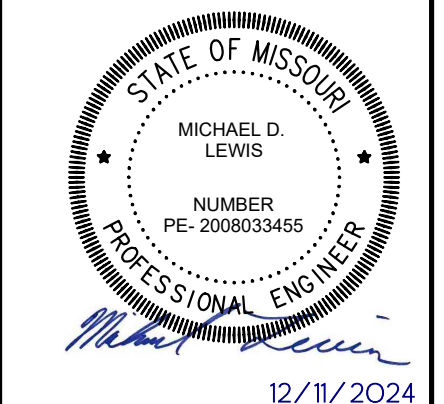
Project Title: GENERAL SITE - VIRGINIA AVENUE SUBSTATION AND UNDERGROUND DUCTBANK
 Drawing Title: PLAN DETAILS

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 Proj. No.: D3750400
 Drawing No.: A-501

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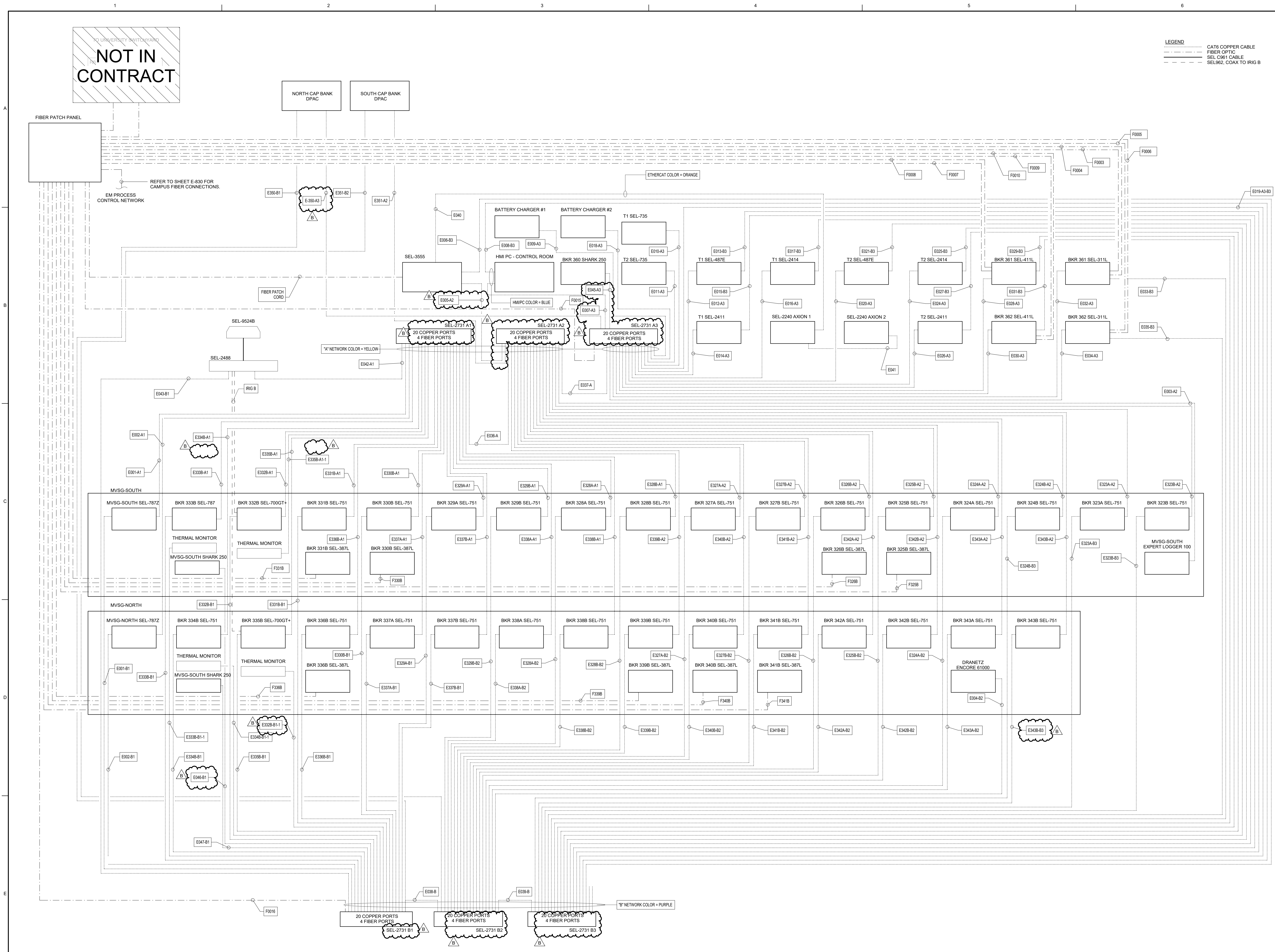
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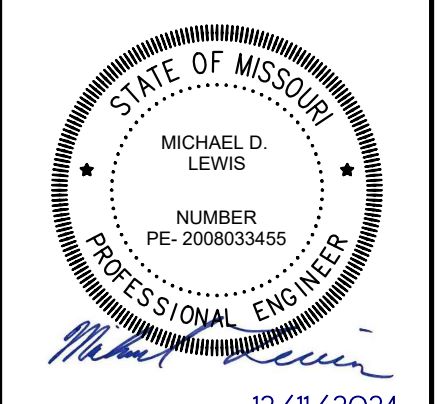
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Project Title: **ELECTRICAL INTERCONNECT AND SUBSTATION**
Drawing Title: **NETWORK ARCHITECTURE RISER SUBSTATION**
Date: 12/11/24
Proj. No.: D3570400
Drawing No.: **E-071**



1 NETWORK ARCHITECTURE RISER SUBSTATION
NTS

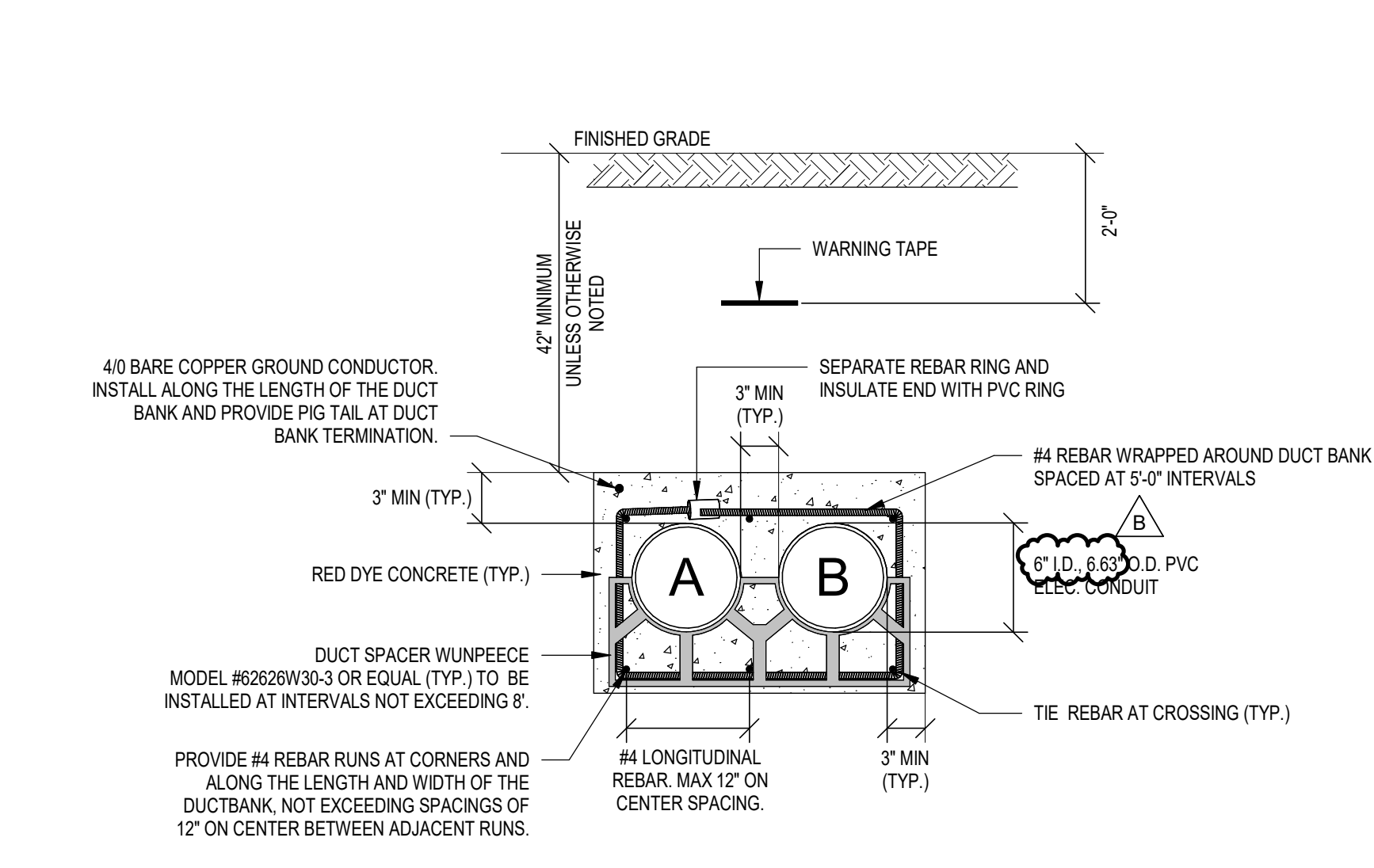


APPROVED	BY	AP/VD	ML
REVISION	CHK	RC	ML
DATE	DR	MS	MS
2/21/24	DR	MS	MS
1/23/24	DR	MS	MS
1/23/24	DR	MS	MS

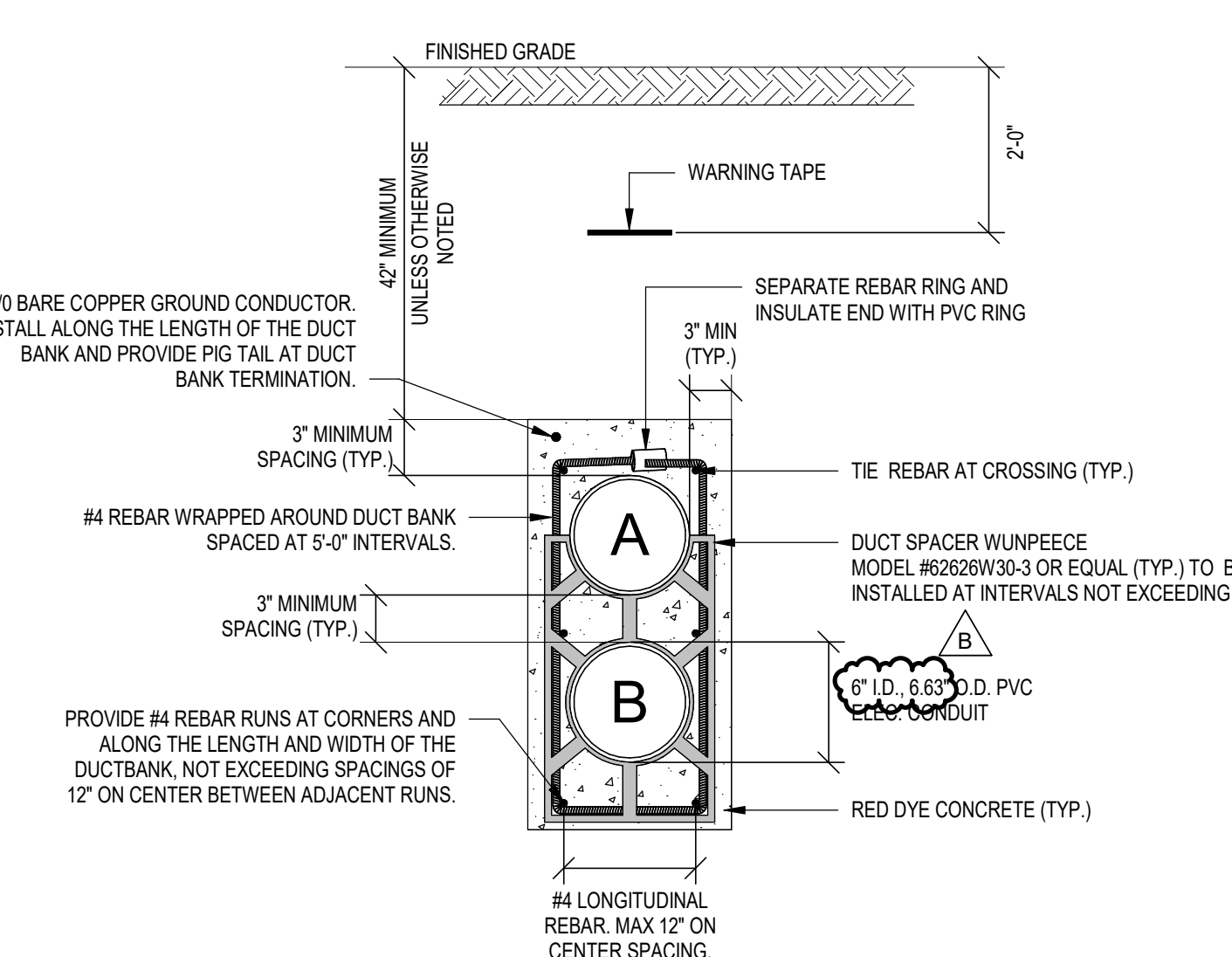


Project Title: **ELECTRICAL INTERCONNECT AND SUBSTATION**
 Drawing Title: **DUCTBANK DETAILS**

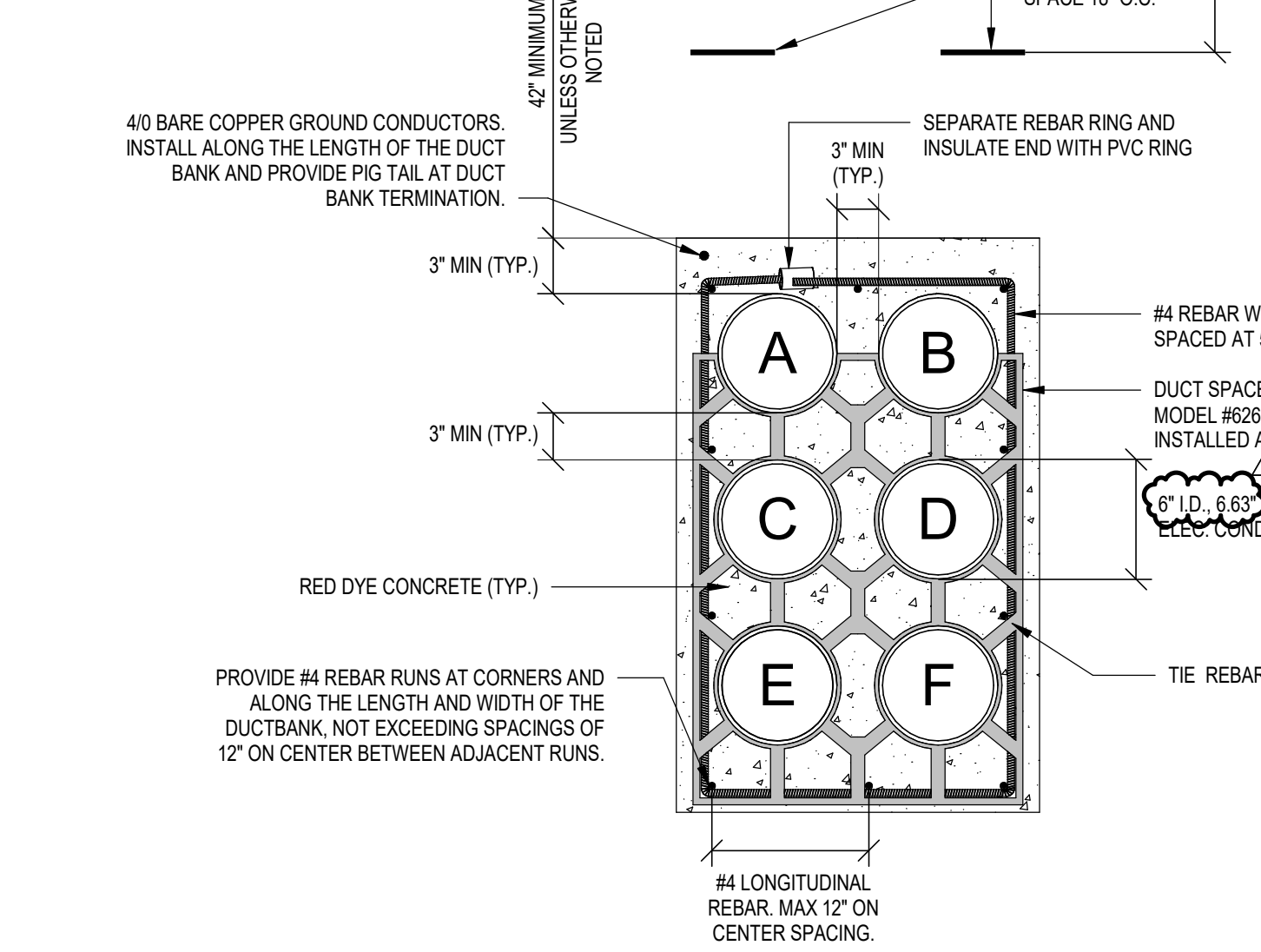
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 Drawing No.: E-512



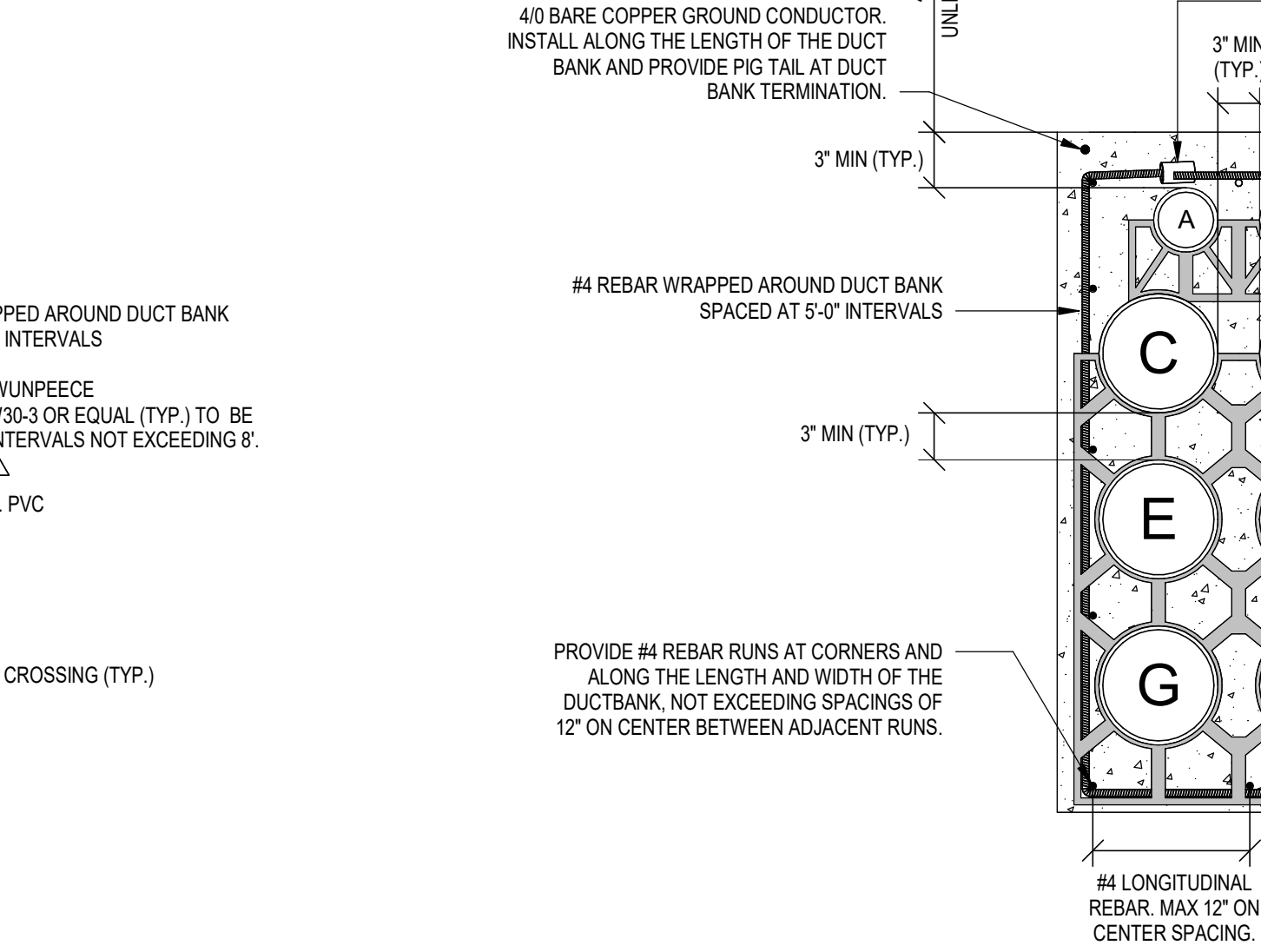
1 69kV 2X1 DUCT BANK DETAIL
 N.T.S.



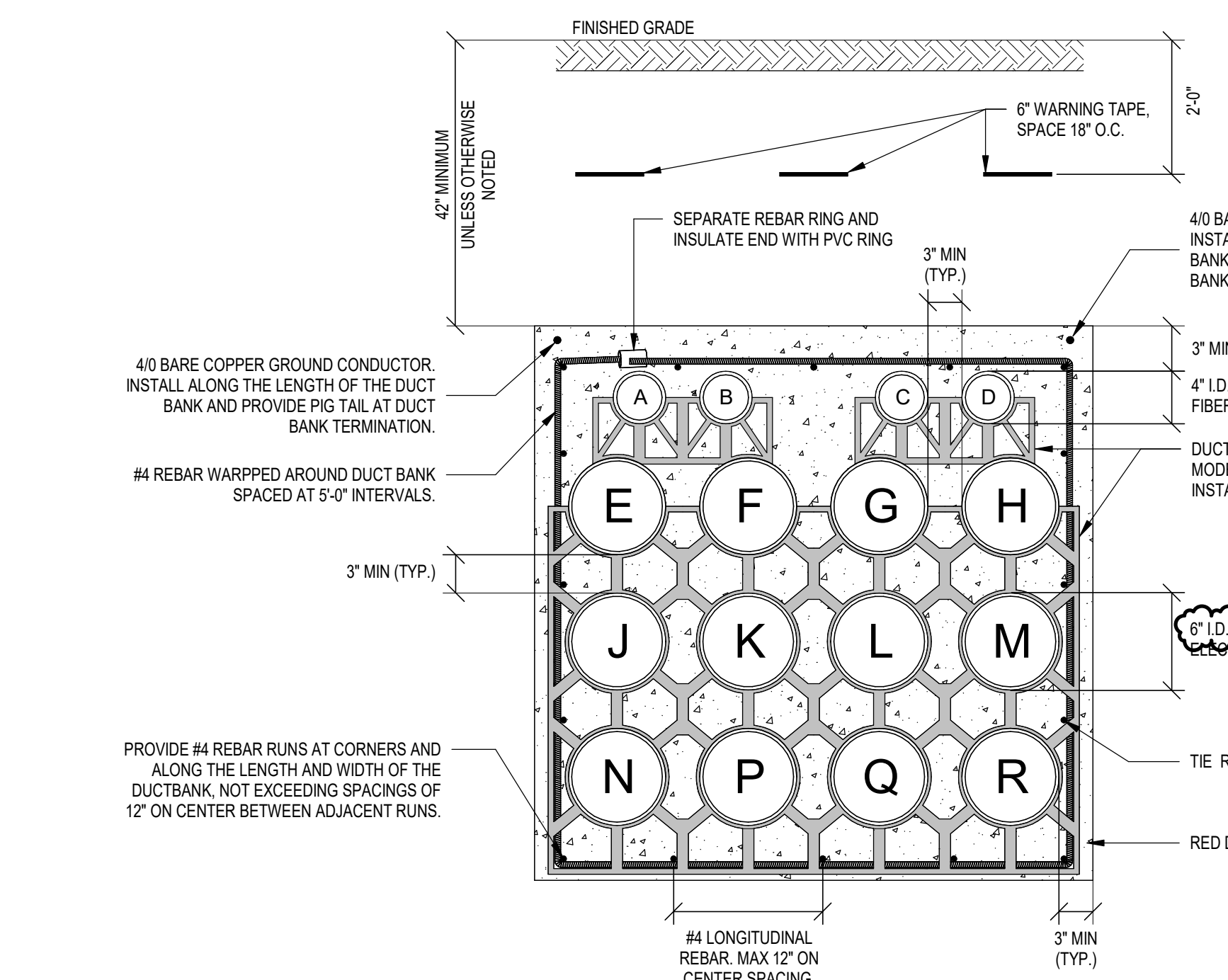
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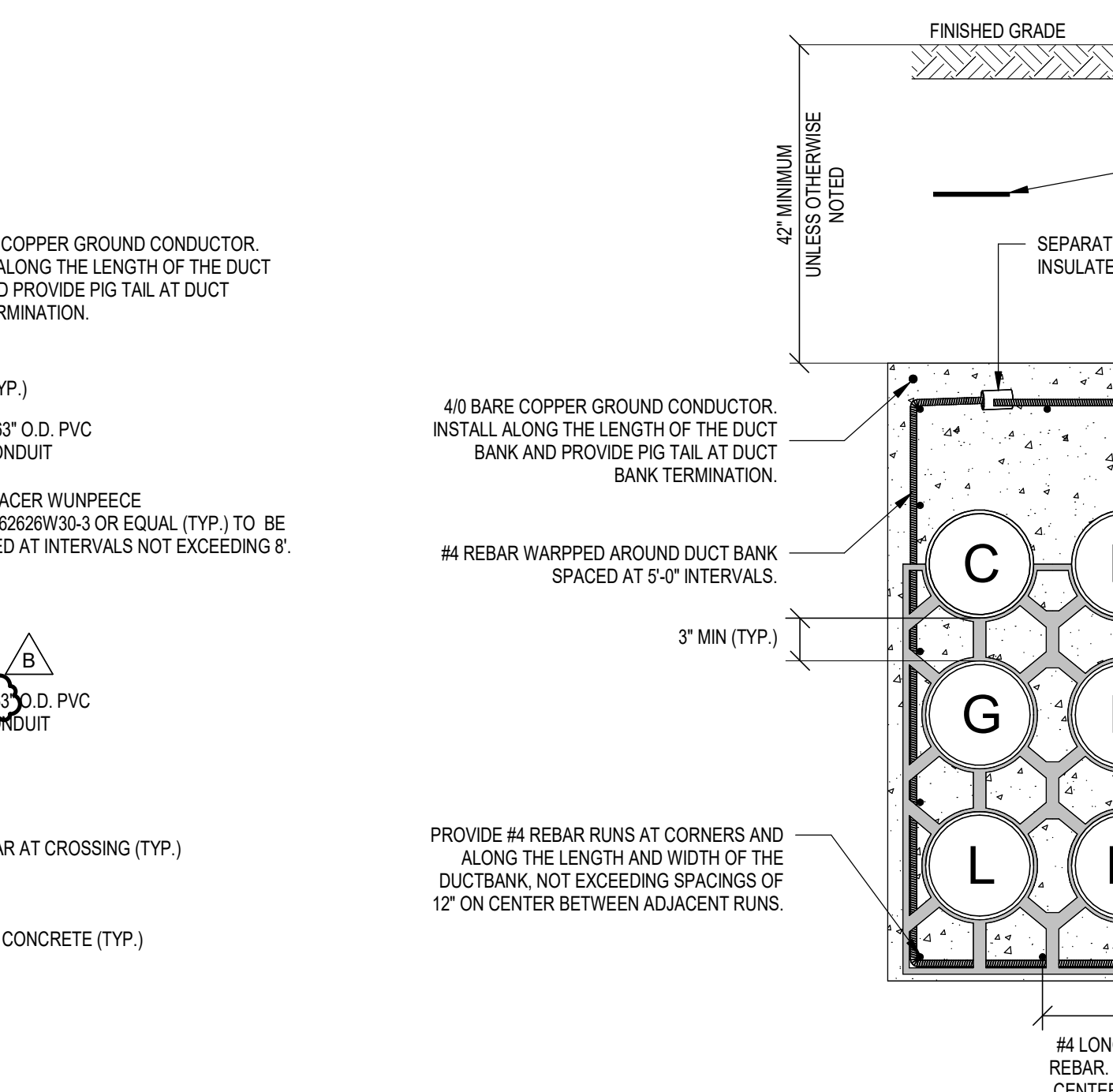
3 69kV 2X3 DUCT BANK DETAIL
 N.T.S.



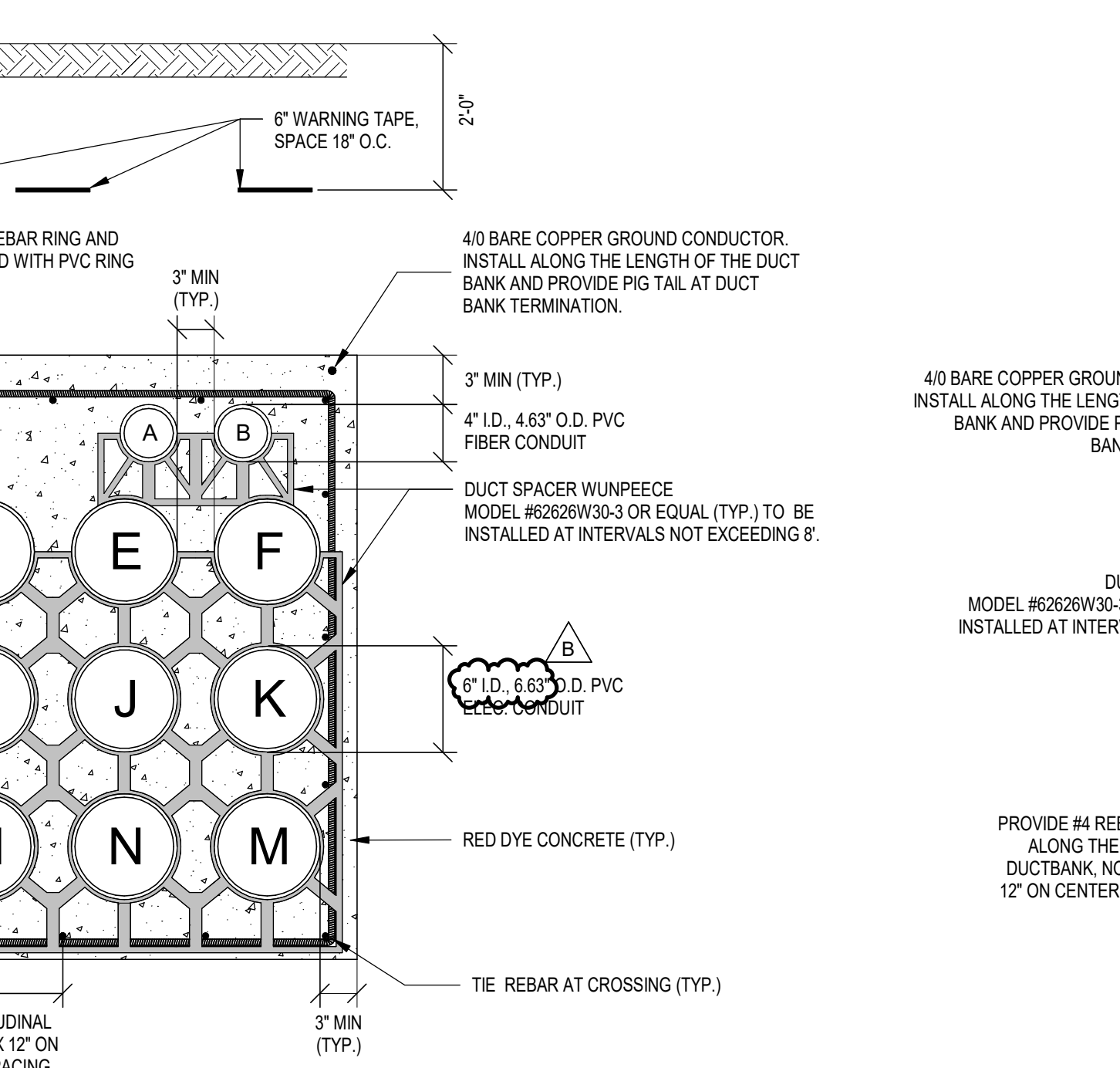
4 69kV 2X4 DUCT BANK DETAIL
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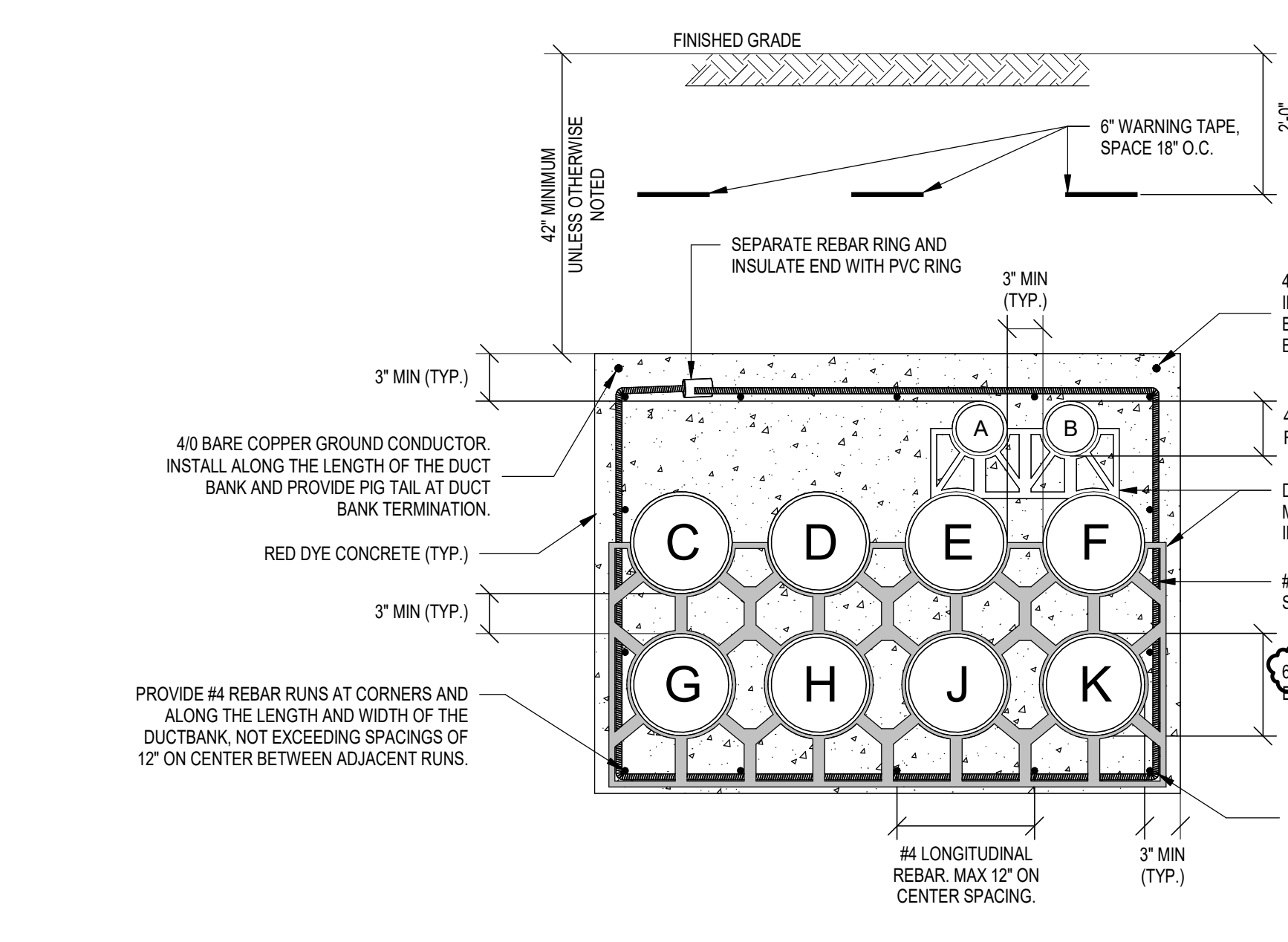
5 69kV 4X4 DUCT BANK DETAIL A1
 N.T.S.



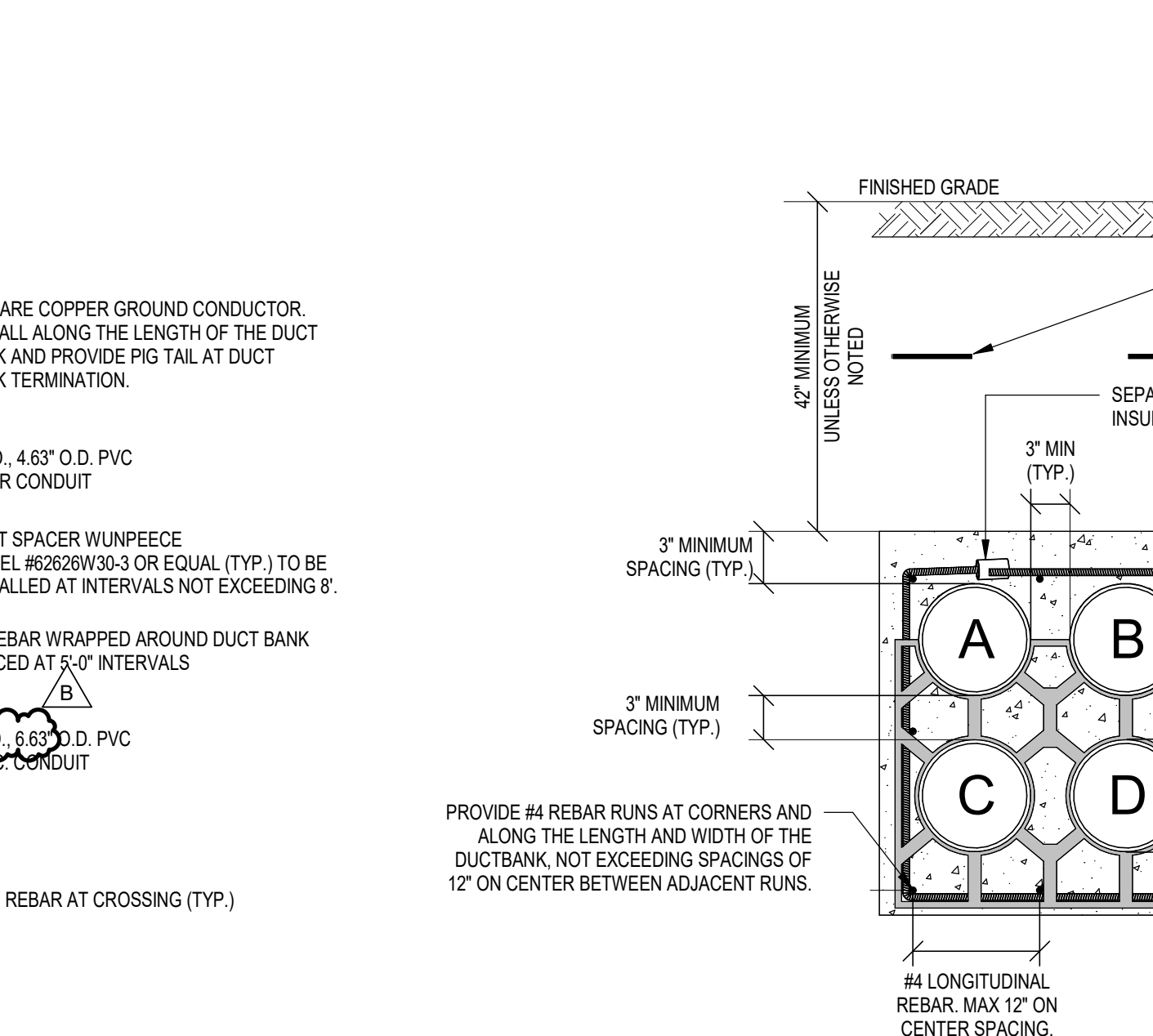
6 69kV 4X4 DUCT BANK DETAIL A2
 N.T.S.



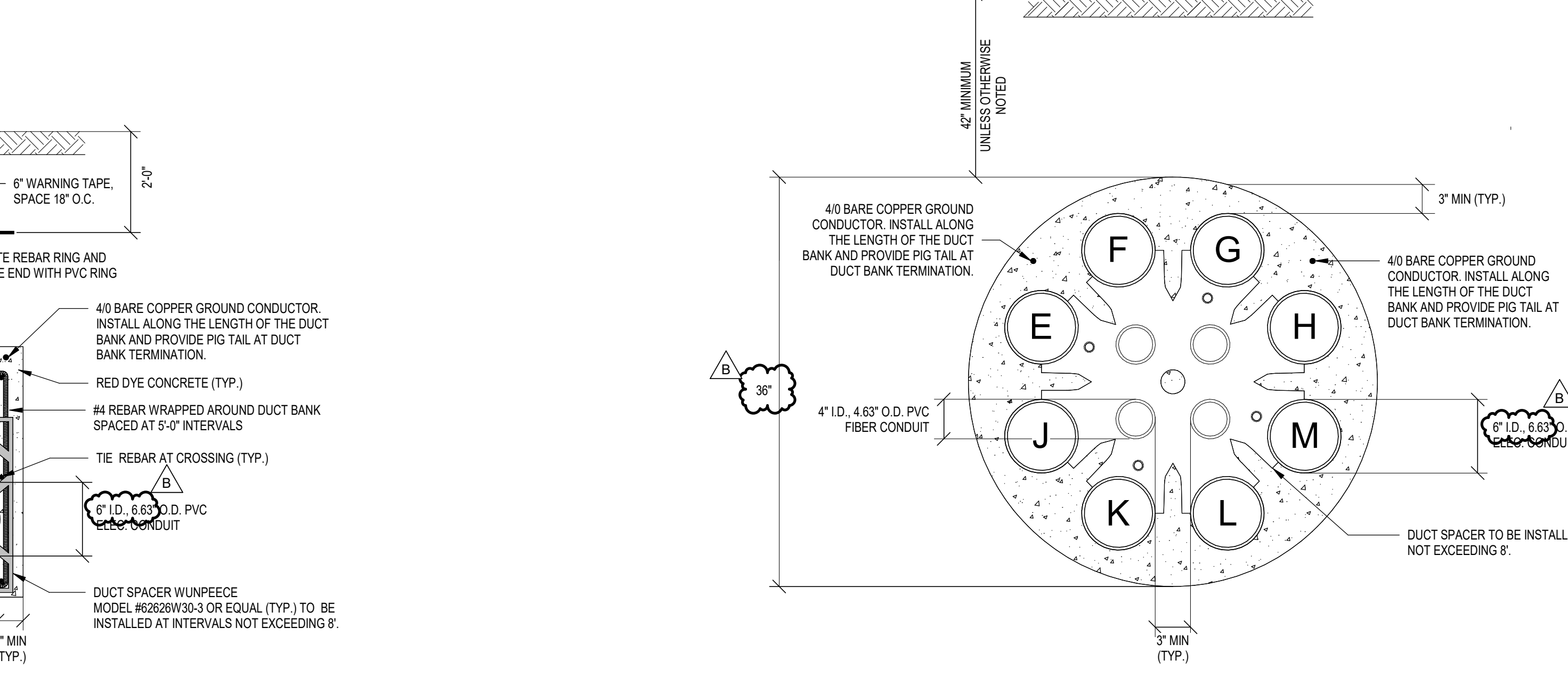
7 69kV 4X3 DUCT BANK DETAIL A1
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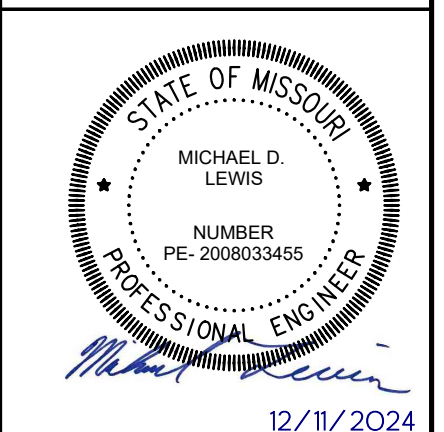
8 69kV 4X3 DUCT BANK DETAIL A2
 N.T.S.



9 69kV 2X2 DUCT BANK DETAIL
 N.T.S.



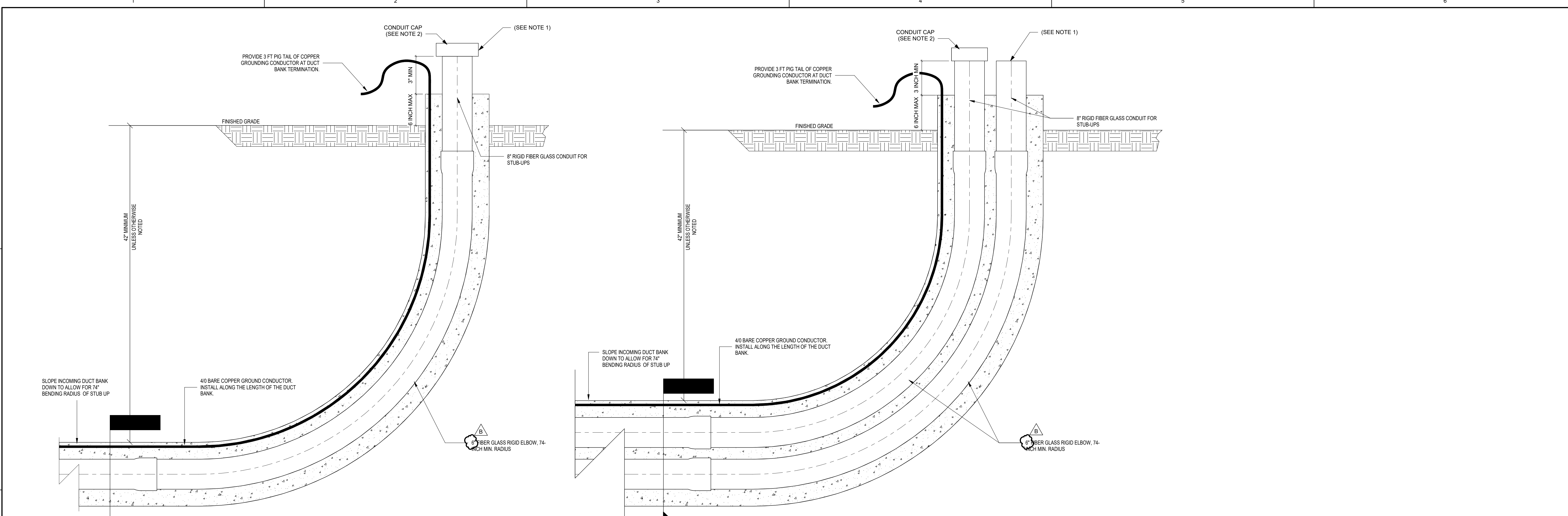
10 69kV 4X3 BORE DUCTBANK DETAIL
 N.T.S.



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3	12/11/24	CHK					
4	12/11/24	APVD					



Project Title: **ELECTRICAL INTERCONNECT AND SUBSTATION**
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 Date: 12/11/24
 Proj. No.: D3570400
 Drawing No.: **E-513**



1
E-512

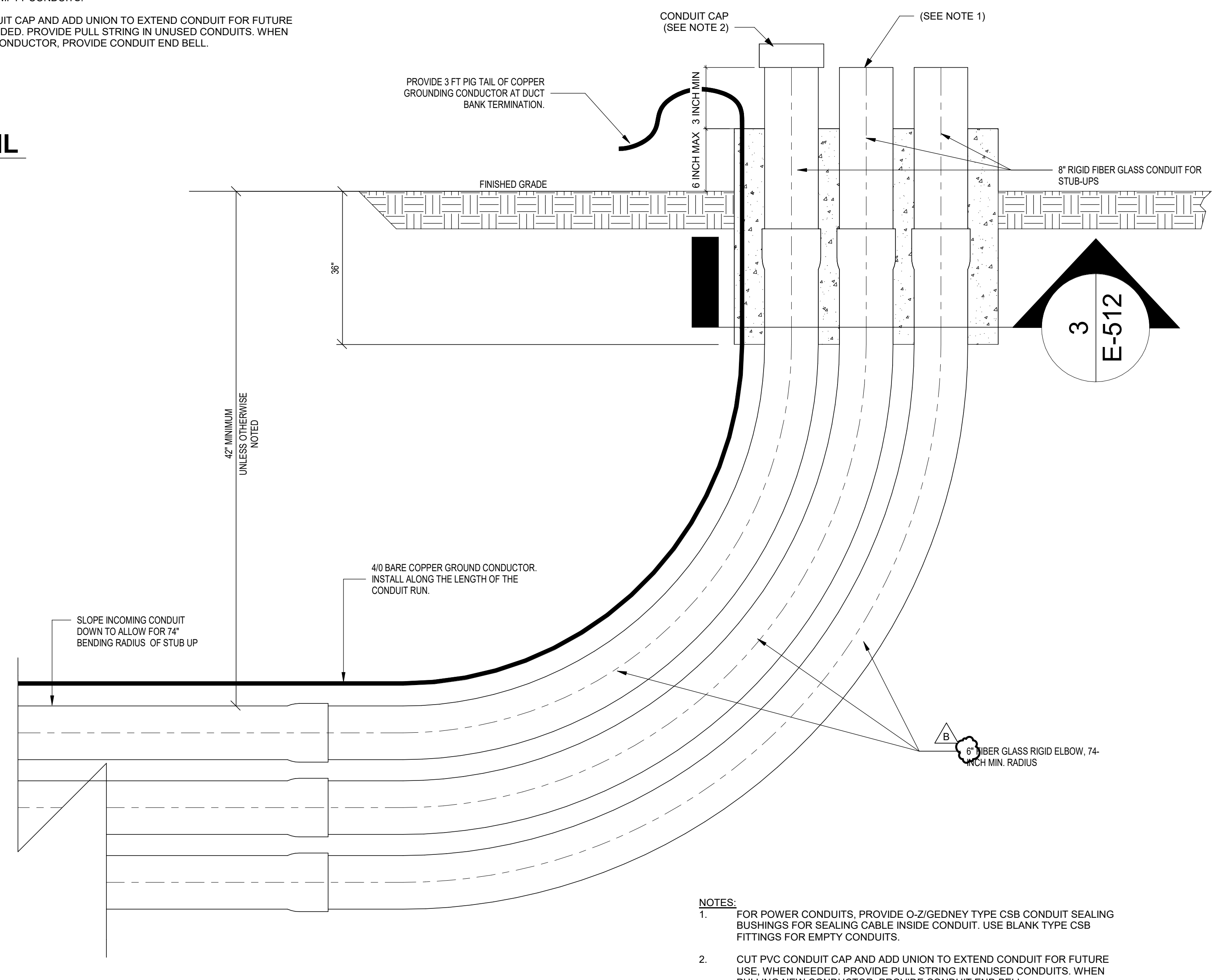
- NOTES:**
- FOR POWER CONDUITS, PROVIDE O-ZIGEDNEY TYPE CSB CONDUIT SEALING BUSHINGS FOR SEALING CABLE INSIDE CONDUIT. USE BLANK TYPE CSB FITTINGS FOR EMPTY CONDUITS.
 - CUT PVC CONDUIT CAP AND ADD UNION TO EXTEND CONDUIT FOR FUTURE USE. WHEN NEEDED, PROVIDE PULL STRING IN UNUSED CONDUITS. WHEN PULLING NEW CONDUCTOR, PROVIDE CONDUIT END BELL.

2
E-512

- NOTES:**
- FOR POWER CONDUITS, PROVIDE O-ZIGEDNEY TYPE CSB CONDUIT SEALING BUSHINGS FOR SEALING CABLE INSIDE CONDUIT. USE BLANK TYPE CSB FITTINGS FOR EMPTY CONDUITS.
 - CUT PVC CONDUIT CAP AND ADD UNION TO EXTEND CONDUIT FOR FUTURE USE. WHEN NEEDED, PROVIDE PULL STRING IN UNUSED CONDUITS. WHEN PULLING NEW CONDUCTOR, PROVIDE CONDUIT END BELL.

1 69kV 2X1 DUCT BANK STUB UP DETAIL
N.T.S.

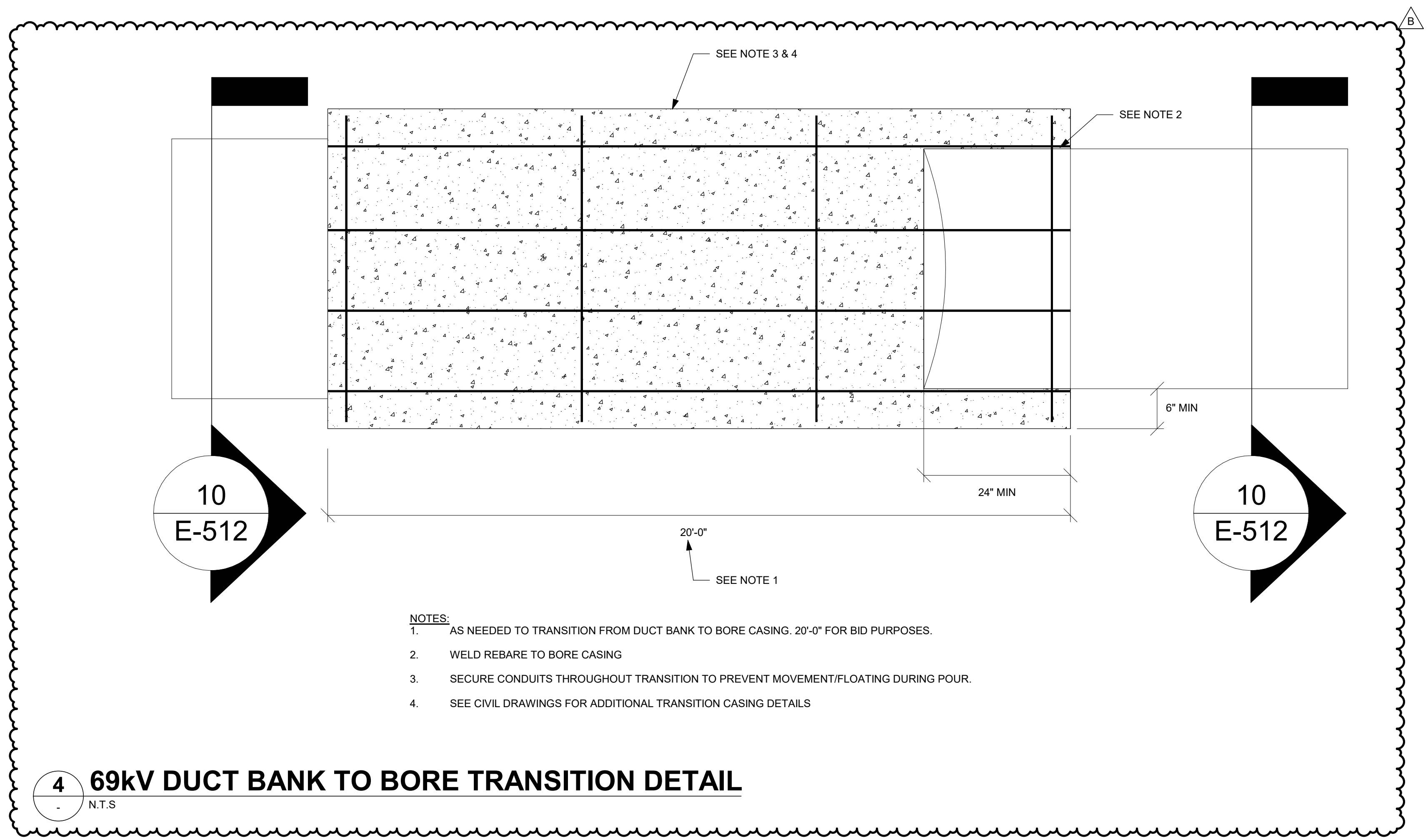
2 69kV 1X2 DUCT BANK STUB UP DETAIL
N.T.S.



3
E-512

- NOTES:**
- FOR POWER CONDUITS, PROVIDE O-ZIGEDNEY TYPE CSB CONDUIT SEALING BUSHINGS FOR SEALING CABLE INSIDE CONDUIT. USE BLANK TYPE CSB FITTINGS FOR EMPTY CONDUITS.
 - CUT PVC CONDUIT CAP AND ADD UNION TO EXTEND CONDUIT FOR FUTURE USE. WHEN NEEDED, PROVIDE PULL STRING IN UNUSED CONDUITS. WHEN PULLING NEW CONDUCTOR, PROVIDE CONDUIT END BELL.

3 69kV 2X3 DUCT BANK STUB UP DETAIL
N.T.S.



10
E-512

10
E-512

- NOTES:**
- AS NEEDED TO TRANSITION FROM DUCT BANK TO BORE CASING. 20'-0" FOR BID PURPOSES.
 - WELD REBAR TO BORE CASING
 - SECURE CONDUITS THROUGHOUT TRANSITION TO PREVENT MOVEMENT/FLOATING DURING POUR.
 - SEE CIVIL DRAWINGS FOR ADDITIONAL TRANSITION CASING DETAILS

4 69kV DUCT BANK TO BORE TRANSITION DETAIL
N.T.S.

VIRGINIA AVE. SUBSTATION AC POWER CABLE SCHEDULE "A1"				
TAG	FROM	TO	SIZE/TYPE	DESCRIPTION
P0001	AC PANEL LA1	BREAKER 360	2/C #12, WITH #12G	LA1-1 TO AC CHARGING MOTOR POWER
P0002	AC PANEL LA1	BREAKER 361	2/C #12, WITH #12G	LA1-2 TO AC CHARGING MOTOR POWER
P0003	AC PANEL LA1	BREAKER 362	2/C #12, WITH #12G	LA1-3 TO AC CHARGING MOTOR POWER
P0004	AC PANEL SA1	TRANSFORMER T1	3/C #8, WITH #10G	SA1-1 TO TRANSFORMER AC POWER
P0005	AC PANEL SA1	TRANSFORMER T2	3/C #8, WITH #10G	SA1-2 TO TRANSFORMER AC POWER
P0006	AC PANEL LA1	MVSG-NORTH	2/C #8, WITH #10G	LA1-10 TO HEATERS, RECEPTACLES, LIGHTS
P0007	AC PANEL LA1	MVSG-SOUTH	2/C #8, WITH #10G	LA1-11 TO HEATERS, RECEPTACLES, LIGHTS
P0008	AC PANEL LA1	TRANSFORMER T1 SUMP PUMP	2/C #12, WITH #12G	LA1-12
P0009	AC PANEL LA1	TRANSFORMER T2 SUMP PUMP	2/C #12, WITH #12G	LA1-13
P0010	AC PANEL LA1	CAP BANK NORTH CONTROL PANEL	2/C #12, WITH #12G	LA1-14
P0011	AC PANEL LA1	CAP BANK SOUTH CONTROL PANEL	2/C #12, WITH #12G	LA1-15
P0012	AC PANEL LA1	MVSG-NORTH WARNING STROBE	2/C #12, WITH #12G	LA1-17 TO MVSG-SOUTH BREAKER OPERATION WARNING STROBE
P0013	AC PANEL LA1	MVSG-SOUTH WARNING STROBE	2/C #12, WITH #12G	LA1-16 TO MVSG-NORTH BREAKER OPERATION WARNING STROBE
P0014	AC PANEL LA1	OT ROOM FIRE PROTECTION SYSTEM	2/C #12, WITH #12G	LA1-43,45,47
P0015	AC PANEL LA1	AHU1	3/C #1/0, WITH #6G	LA1-18,20,22
P0016	AC PANEL LA1	AHU2	3/C #1/0, WITH #6G	LA1-19,21,23
P0017	AC PANEL LA1	MS-1	2/C #12, WITH #12G	LA1-24
P0018	AC PANEL HA1	BATTERY CHARGER 1	3/C #10, WITH #10G	HA1-1,2,3
P0019	AC PANEL HA1	BATTERY CHARGER 2	3/C #10, WITH #10G	HA1-2,4,6
P0020A	TRANSFORMER TA1-WEST	WEST SERVICE MAIN	4#350KCMIL	
P0020B	WEST SERVICE MAIN	ATS 1	4#350KCMIL	
P0021A	TRANSFORMER TA2-EAST	BYPASS BREAKER	4#350KCMIL	
P0021B	BYPASS BREAKER	EAST SERVICE MAIN	4#350KCMIL	
P0021C	BYPASS BREAKER	HA1	4#350KCMIL	HA1-15,17,19
P0021D	EAST SERVICE MAIN	ATS 1	4#350KCMIL	
P0022	AC PANEL HA1	AC PANEL HA1	4#350KCMIL	HA1-MAIN
P0023	AC PANEL HA1	TRANSFORMER TA3	3#3/0, WITH #6G	HA1-7,9,11
P0024	TRANSFORMER TA3	AC PANEL LA11	2 SETS (3#4/0, WITH #1G)	
P0025	AC PANEL LA1	AC PANEL LA12	3/C #2, WITH #6G	LA1-25,27,29
P0026	AC PANEL HA1	LIGHTING INTERIOR	2/C #12, WITH #12G	FIRST FLOOR INTERIOR LIGHTING
P0027	AC PANEL HA1	LIGHTING INTERIOR	2/C #12, WITH #12G	BASEMENT FLOOR INTERIOR LIGHTING
P0028	AC PANEL HA1	LIGHTING EXTERIOR	2/C #12, WITH #12G	EXTERIOR BUILDING WALL PACKS
P0029	AC PANEL HA1	LIGHTING EXTERIOR	2/C #12, WITH #12G	EQUIPMENT YARD FLOOD LIGHTS
P0030	AC PANEL HA1	LIGHTING EXTERIOR	2/C #12, WITH #12G	LED EDGE LIGHTING
P0031	AC PANEL LA1	CU-1	3/C #4, WITH #8G	LA1-26
P0032	AC PANEL LA1	CU-2	3/C #4, WITH #8G	LA1-28
P0033	AC PANEL LA1	MS-CU-1	2/C #10, WITH #10G	LA1-30
P0034	AC PANEL LA1	RECEPTACLE SWITCHGEAR ROOM	2/C #12, WITH #12G	LA1-31
P0035	AC PANEL LA1	RECEPTACLE OFFICE	2/C #12, WITH #12G	LA1-32
P0036	AC PANEL LA1	RECEPTACLE BATHROOM	2/C #12, WITH #12G	LA1-33
P0037	AC PANEL LA1	RECEPTACLE CU-1	2/C #12, WITH #12G	LA1-34
P0038	AC PANEL LA1	RECEPTACLE CU-2	2/C #12, WITH #12G	LA1-35
P0039	AC PANEL LA1	EF-1	2/C #12, WITH #12G	LA1-36
P0040	AC PANEL LA1	TF-1	2/C #12, WITH #12G	LA1-37
P0041	AC PANEL LA1	UH-1	2/C #12, WITH #12G	LA1-38 TO FLOW METER
P0042	AC PANEL LA1	FM-1	2/C #12, WITH #12G	LA1-39
P0043	AC PANEL LA1	BREAKER 360	2/C #10, WITH #10G	LA1-40 TO HEATERS, RECEPTACLES, LIGHTS
P0044	AC PANEL LA1	BREAKER 361	2/C #10, WITH #10G	LA1-41 TO HEATERS, RECEPTACLES, LIGHTS
P0045	AC PANEL LA1	BREAKER 362	2/C #10, WITH #10G	LA1-42 TO HEATERS, RECEPTACLES, LIGHTS
P0048	AC PANEL HA1	TRANSFORMER TA4	3/C #2, WITH #6G	HA1-16,18
P0049	TRANSFORMER TA4	AC PANEL SA1	3/C #2, WITH #6G	HA1-16,18
P0050	AC PANEL LA2	OT ROOM RECEPTACLES	2/C #12, WITH #12G	LA2-1
P0051	AC PANEL LA2	METASYS	2/C #12, WITH #12G	LA2-2
P0052	AC PANEL LA2	NETWORK RACK A	2/C #12, WITH #12G	LA2-3
P0053	AC PANEL LA2	NETWORK RACK B	2/C #12, WITH #12G	LA2-4
P0054	AC PANEL LA2	NETWORK RACK C	2/C #12, WITH #12G	LA2-5
P0055	AC PANEL LA2	NETWORK RACK D	2/C #12, WITH #12G	LA2-6
P0056	AC PANEL LA2	NETWORK RACK E	2/C #12, WITH #12G	LA2-7
P0326	MANHOLE EMH-108	MANHOLE EMH-312	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	"VAMW EXPRESS". SPLICE WITH EXISTING SRMW IN MANHOLE EMH-108. SPLICE WITH EXISTING ECCP2/VAMW IN MANHOLE EMH-312.
P0326B	MVSG-SOUTH BREAKER 326B	MANHOLE EMH-365	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	VAMW EXPRESS SWITCHGEAR CUBICLE. SPLICE WITH EXISTING ECCP2/VAMW IN MANHOLE.
P0327A	MVSG-SOUTH BREAKER 327A	CAP BANK SOUTH	3#4/0 15KV MV105 EPR 133%, #2G 600V	
P0327B	MVSG-SOUTH BREAKER 327B	MANHOLE EMH-315	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	ECBL1 SWITCHGEAR CUBICLE. SPLICE IN MANHOLE WITH EXISTING ECCP1.
P0328-1	MANHOLE EMH-315	MANHOLE EMH-319	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	"HSBL". SPLICE WITH EXISTING HSBL IN MANHOLE EMH-313. SPLICE WITH EXISTING HSBL IN MANHOLE EMH-319.
P0328-2	MANHOLE EMH-108	MANHOLE EMH-312	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	"RCBL". SPLICE WITH EXISTING RCBL IN MANHOLE EMH-108. SPLICE WITH EXISTING HSBL/RCBL IN MANHOLE EMH-312.
P0328A	MVSG-SOUTH BREAKER 328A	MANHOLE EMH-320	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	HSBL SWITCHGEAR CUBICLE. SPLICE WITH EXISTING HSBL IN MANHOLE.
P0328B	MVSG-SOUTH BREAKER 328B	MANHOLE EMH-313	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	RCBL SWITCHGEAR CUBICLE. SPLICE WITH EXISTING HSBL/RCBL IN MANHOLE.
P0329B	MVSG-SOUTH BREAKER 329B	MANHOLE EMH-103	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	AGBL CTAP SWITCHGEAR CUBICLE. SPLICE WITH EXISTING AGCT IN MANHOLE.
P0330B	MVSG-SOUTH BREAKER 330B	MANHOLE EMH-315	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	CAVA1 EXPRESS SWITCHGEAR CUBICLE. SPLICE WITH EXISTING CAV1 IN MANHOLE.
P0331B	MVSG-SOUTH BREAKER 331B	STADIUM ROAD SUBSTATION TEMP BKR 314B	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	PPVA EXPRESS (SR314B TO VA331B) TO ENERGIZE VA SUB. AFTER ALL CIRCUITS MOVED TO VA SUB AND PRIMARY POWER IS PROVIDED, DISCONNECT CIRCUIT FROM 314B AND SPLICE TO EXISTING PPSR IN EMH-108.
P0332A	MVSG-SOUTH CUBICLE 332A	TRANSFORMER TA1-WEST	3#2 15KV MV105 EPR 133%, #8G 600V	
P0332B	TRANSFORMER T1	MVSG-SOUTH BREAKER 332B	6 SETS (3#750KCMIL 15KV MV105 EPR 133%, #4/0G 600V)	
P0333B	MVSG-SOUTH BREAKER 333B	TIE-REACTOR	6 SETS (3#750KCMIL 15KV MV105 EPR 133%, #4/0G 600V)	
P0334B	MVSG-NORTH BREAKER 334B	TIE-REACTOR	6 SETS (3#750KCMIL 15KV MV105 EPR 133%, #4/0G 600V)	
P0335A	MVSG-NORTH CUBICLE 335A	TRANSFORMER TA2-EAST	3#2 15KV MV105 EPR 133%, #8G 600V	
P0335B	TRANSFORMER T2	MVSG-NORTH BREAKER 335B	6 SETS (3#750KCMIL 15KV MV105 EPR 133%, #4/0G 600V)	
P0336	MANHOLE EMH-108	MANHOLE EMH-312	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	"VARC EXPRESS". SPLICE WITH EXISTING SRRP IN MANHOLE EMH-108. SPLICE WITH EXISTING ECCP1/VARC IN MANHOLE EMH-312.
P0336B	MVSG-NORTH BREAKER 336B	MANHOLE EMH-365	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	VARC EXPRESS SWITCHGEAR CUBICLE. SPLICE WITH EXISTING ECCP1/VARC IN MANHOLE.
P0337A	MVSG-NORTH BREAKER 337A	MANHOLE EMH-320	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	SEBL SWITCHGEAR CUBICLE. SPLICE WITH EXISTING HSBL/SEBL IN MANHOLE.
P0337B	MVSG-NORTH BREAKER 337B	MANHOLE EMH-315	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	ECBL2 SWITCHGEAR CUBICLE. SPLICE IN MANHOLE WITH EXISTING ECCP2.
P0338A	MVSG-NORTH BREAKER 338A	MANHOLE EMH-316	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	AGBL SWITCHGEAR CUBICLE. SPLICE WITH EXISTING AGLB IN MANHOLE.
P0338B	MVSG-NORTH BREAKER 338B	CAP BANK NORTH	3#4/0 15KV MV105 EPR 133%, #2G 600V	
P0339B	MVSG-NORTH BREAKER 339B	MANHOLE EMH-316	3#500KCMIL 15KV MV105 EPR 133%, #4/0G 600V	CAVA2 EXPRESS SWITCHGEAR CUBICLE. SPLICE WITH EXISTING AGLB/CAVA2 IN MANHOLE.
P0340	MANHOLE EMH-108	MANHOLE EMH-312	3#500KCMIL 15KV MV105 EPR 133%, #1/0G 600V	"VAGT EXPRESS". SPLICE WITH EXISTING SRGT IN MANHOLE EMH-108. SPLICE WITH EXISTING CASR1/VAGT IN MANHOLE EMH-312.
P0340B	MVSG-NORTH BREAKER 340B	MANHOLE EMH-365	3#500KCMIL 15KV MV105 EPR 133%, #1/0G 600V	VAGT EXPRESS SWITCHGEAR CUBICLE. SPLICE WITH EXISTING CASR1/VAGT IN MANHOLE.
P0361	SWITCHYARD	SUBSTATION BREAKER 361	3#750KCMIL 69KV MV105 EPR 133%, #4/0G 600V	UNDERGROUND CABLE FROM SWITCHING STATION TO SUBSTATION, ONE PHASE CONDUCTOR AND ONE GROUND PER CONDUIT
P0362	SWITCHYARD	SUBSTATION BREAKER 362	3#750KCMIL 69KV MV105 EPR 133%, #4/0G 600V	UNDERGROUND CABLE FROM SWITCHING STATION TO SUBSTATION, ONE PHASE CONDUCTOR AND ONE GROUND PER CONDUIT

VIRGINIA AVE. SUBSTATION DC POWER CABLE SCHEDULE "A"				
TAG	FROM	TO	SIZE/TYPE	DESCRIPTION
PDC0001	DC PANEL DC1	BREAKER 360	2/C #12, WITH #12G	DC1-1,2, CONTROL POWER (CLOSE CIRCUIT & TRIP CIRCUIT 1)
PDC0002	DC PANEL DC1	BREAKER 360	2/C #10, WITH #12G	DC1-3,4, DC CHARGING MOTOR POWER
PDC0003	DC PANEL DC1	BREAKER 361	2/C #10, WITH #12G	DC1-5,6, CONTROL POWER (CLOSE CIRCUIT & TRIP CIRCUIT 1)
PDC0004	DC PANEL DC1	BREAKER 361	2/C #8, WITH #12G	DC1-7,8 DC CHARGING MOTOR POWER
PDC0005	DC PANEL DC1	BREAKER 362	2/C #10, WITH #12G	DC1-9,10, CONTROL POWER (CLOSE CIRCUIT & TRIP CIRCUIT 1)
PDC0006	DC PANEL DC1	BREAKER 362	2/C #8, WITH #12G	DC1-11,12, DC CHARGING MOTOR POWER
PDC0007	DC PANEL DC1	TRANSFORMER T1	2/C #12, WITH #12G	DC1-13, 14, CONTROL POWER
PDC0008	DC PANEL DC1	TRANSFORMER T2	2/C #12, WITH #12G	DC1-15,16, CONTROL POWER
PDC0009	DC PANEL DC1	MVSG-NORTH	2/C #8, WITH #10G	DC1-17,18, CONTROL POWER MAIN (CLOSE & TRIP 1), TIE (CLOSE & TRIP 1), AND EXPRESS
PDC0010	DC PANEL DC1	MVSG-NORTH	2/C #12, WITH #12G	DC1-19,20, CONTROL POWER MAIN (TRIP CIRCUIT 2) & TIE (TRIP CIRCUIT 2)
PDC0011	DC PANEL DC1	MVSG-NORTH	2/C #10, WITH #12G	DC1-21,22, CONTROL POWER FOUR FEEDER BREAKERS
PDC0012	DC PANEL DC1	MVSG-NORTH	2/C #10, WITH #12G	DC1-23,24, CONTROL POWER TWO FEEDER BREAKERS TWO SPACE
PDC0013	DC PANEL DC1	MVSG-SOUTH	2/C #6, WITH #10G	DC1-25,26, CONTROL POWER MAIN (CLOSE & TRIP 1), TIE (CLOSE & TRIP 1), AND EXPRESS
PDC0014	DC PANEL DC1	MVSG-SOUTH	2/C #10, WITH #12G	DC1-27,28, CONTROL POWER MAIN (TRIP CIRCUIT 2) & TIE (TRIP CIRCUIT 2)
PDC0015	DC PANEL DC1	MVSG-SOUTH	2/C #6, WITH #10G	DC1-29,30, CONTROL POWER FIVE FEEDER BREAKERS
PDC0016	DC PANEL DC1	MVSG-SOUTH	2/C #6, WITH #10G	DC1-31,32, CONTROL POWER THREE FEEDER BREAKERS TWO SPACE
PDC0017	DC PANEL DC1	RELAY PROTECTION PANEL RP1	2/C #8, WITH #10G	DC1-33,34, CONTROL POWER
PDC0018	DC PANEL DC1	RELAY PROTECTION PANEL RP2	2/C #12, WITH #12G	DC1-35,36, CONTROL POWER
PDC0019	DC PANEL DC1	RELAY PROTECTION PANEL RP2	2/C #8, WITH #10G	DC1-37,38, CONTROL POWER
PDC0020	DC PANEL DC1	SUBSTATION I/O PANEL	2/C #12, WITH #12G	DC1-39,40, CONTROL POWER
PDC0021	BATTERY CHARGER 1	DC PANEL DC1	2/C #6, WITH #8G	DC1MAIN1
PDC0022	BATTERY CHARGER 2	DC PANEL DC1	2/C #6, WITH #8G	DC1MAIN2
PDC0023	DC PANEL DC1	BATTERY BANK	2/C #4, WITH #8G	DC1-41,42
PDC0024	DC PANEL DC1	DC PANEL DC2	2/C #2/0, WITH #8G	DC1-49,50
PDC0025	DC PANEL DC1	BREAKER 360	2/C #12, WITH #12G	CONTROL POWER (TRIP CIRCUIT 2)
PDC0026	DC PANEL DC1	BREAKER 361	2/C #10, WITH #12G	DC1-45,46, CONTROL POWER (TRIP CIRCUIT 2)
PDC0027	DC PANEL DC1	BREAKER 362	2/C #10, WITH #12G	DC1-47,48, CONTROL POWER (TRIP CIRCUIT 2)

VIRGINIA AVE. SUBSTATION TELECOM CABLE SCHEDULE "A1"				
TAG	TO	FROM	SIZE/TYPE	DESCRIPTION
E001-A1	MVSG-SOUTH SEL-7872	SEL-2731-1	1 CAT6	
E001-B1	MVSG-SOUTH SEL-7872	SEL-2731-1	1 CAT6	
E002-A1	MVSG-NORTH SEL-7872	SEL-2731-1	1 CAT6	
E002-B1	MVSG-NORTH SEL-7872	SEL-2731-1	1 CAT6	
E003-A2	MVSG-SOUTH EXPERT LOGGER 100	SEL-2731-2	1 CAT6	
E004-B2	DRANETZ ENCORE 61000	SEL-2731-2	1 CAT6	
E005-A2	SEL-3555	SEL-2731-2	1 CAT6	
E005-B2	SEL-3555	SEL-2731-2	1 CAT6	
E007-A3	HMI PC	SEL-2731-3	1 CAT6	
E007-B3	HMI PC	SEL-2731-3	1 CAT6	
E009-A3	BATTERY CHARGER #1	SEL-2731-3	1 CAT6	
E010-A3	T1 SEL-735	SEL-2731-3	1 CAT6	
E011-A3	T2 SEL-735	SEL-2731-3	1 CAT6	
E012-A3	T1 SEL-487E	SEL-2731-3	1 CAT6	
E013-B3	T1 SEL-487E	SEL-2731-3	1 CAT6	
E014-A3	T1 SEL-2411	SEL-2731-3	1 CAT6	
E015-B3	T1 SEL-2411	SEL-2731-3	1 CAT6	
E016-A3	T1 SEL-2414	SEL-2731-3	1 CAT6	
E017-B3	T1 SEL-2414	SEL-2731-3	1 CAT6	
E018-A3	BATTERY CHARGER #2	SEL-2731-3	1 CAT6	
E019-A3-B3	SEL-2731 A3	SEL-2731-3	1 CAT6	
E020-A3	T2 SEL-487E	SEL-2731-3	1 CAT6	
E021-B3	T2 SEL-487E	SEL-2731-3	1 CAT6	
E024-A3	T2 SEL-2414	SEL-2731-3	1 CAT6	
E025-B3	T2 SEL-2414	SEL-2731-3	1 CAT6	
E026-A3	T2 SEL-2411	SEL-2731-3	1 CAT6	
E027-B3	T2 SEL-2411	SEL-2731-3	1 CAT6	
E028-A3	BKR 361 SEL-411L	SEL-2731-3	1 CAT6	
E029-B3	BKR 361 SEL-411L	SEL-2731-3	1 CAT6	
E030-A3	BKR 362 SEL-411L	SEL-2731-3	1 CAT6	
E031-B3	BKR 362 SEL-411L	SEL-2731-3	1 CAT6	
E032-A3	BKR 361 SEL-311L	SEL-2731-3	1 CAT6	
E033-B3	BKR 361 SEL-311L	SEL-2731-3	1 CAT6	
E034-A3	BKR 362 SEL-311L	SEL-2731-3	1 CAT6	
E035-B3	BKR 362 SEL-311L	SEL-2731-3	1 CAT6	
E036-A	SEL-2731 A1	SEL-2731-2	1 CAT6	
E037-A	SEL-2731 A2	SEL-2731-3	1 CAT6	
E038-B	SEL-2731 B1	SEL-2731-2	1 CAT6	
E039-B	SEL-2731 B2	SEL-2731-3	1 CAT6	
E040	SEL-3555	SEL-240 AXION 1	1 CAT6	ETHERCAT
E041	SEL-2240 AXION 1	SEL-240 AXION 2	1 CAT6	ETHERCAT
E042-A1	SEL-2488	SEL-2731-1	1 CAT6	PROVIDE SFP COPPER RJ45 CONNECTOR FOR NETWORK SWITCH
E042-B1	SEL-2488	SEL-2731-1	1 CAT6	
E043-A3	BKR 360 SHARK 250	SEL-2731-1	1 CAT6	
E043-B3	BKR 360 SHARK 250	SEL-2731-1	1 CAT6	

GENERAL NOTES

- A. REFER TO DETAILS ON E-512, E-513, E-517, AND E-518 FOR NEW DUCTBANK, MANHOLES, AND HANDHOLES.
- B. SCOPE BOX INDICATE WHERE WORK IS BEING PERFORMED.

Jacobs

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12/11/2024

NO.	DATE	DR	MS	RC	CHK	APVD	ML
1	12/11/24	UTSSEL					
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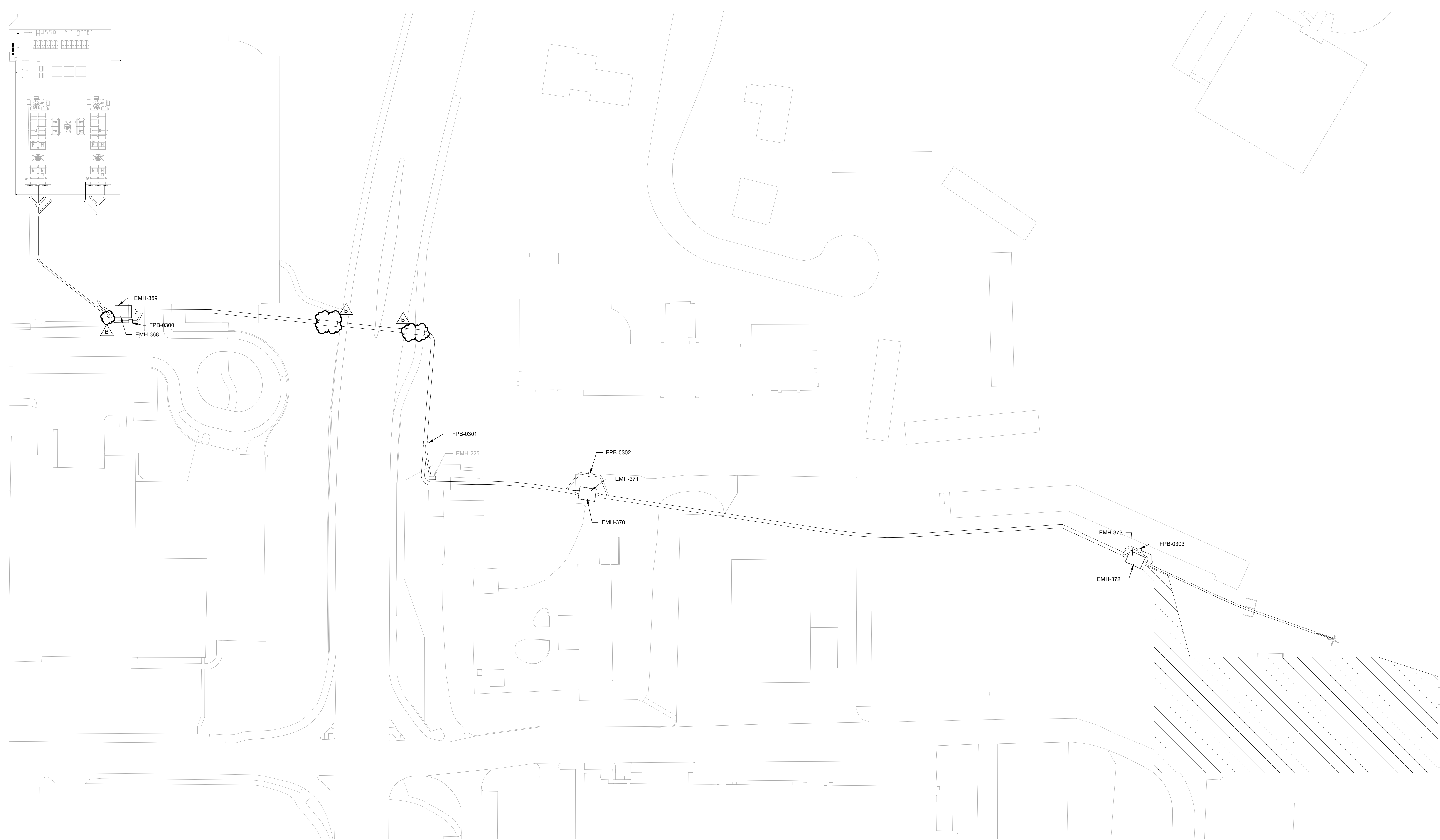
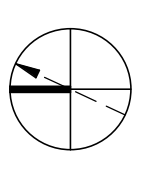
Project Title:
ELECTRICAL INTERCONNECT
AND SUBSTATION

Drawing Title:
OVERALL SITE PLAN -
SUBSTATION TO TRANSITION
RISER DUCT BANK PLAN

Date: 12/11/24

Proj. No.: D3570400

Drawing No.: ES-100



1 OVERALL CONNECTION UNDERGROUND DUCT BANK ROUTING PLAN
1" = 50'-0"

GENERAL NOTES

A. REFER TO DETAILS ON E-512, E-513, E-517, AND E-518 FOR NEW DUCTBANK, MANHOLES, AND HANDHOLES.

B. SCOPE BOX INDICATE WHERE WORK IS BEING PERFORMED.

KEYED NOTES

1	RE:1/E-512 FOR DUCT BANK DETAIL.
2	RE:1/E-511 FOR DUCT BANK DETAIL.
3	ROUTE CONDUITS FROM DUCT BANK TO SUBSTATION YARD TRAY. SEE E-211 FOR ADDITIONAL INFORMATION.
4	RE:3/E-512 FOR DUCT BANK DETAILS.
5	RE:1/E-516 AND E-523 FOR FIBER PULL BOX AND CONDUIT STUB UP DETAILS.
6	SEE SHEETS E-517 AND E-518 FOR MANHOLE DETAILS.
7	RE:1/E-523 AND 2/E-523 FOR FIBER PULL BOX AND CONDUIT STUB UP DETAILS.
8	SEE E-514 AND DETAILS 1 & 2 ON E-513 FOR STUB UP DETAILS.
9	RE:4/E-513 FOR TRANSITION DETAIL.

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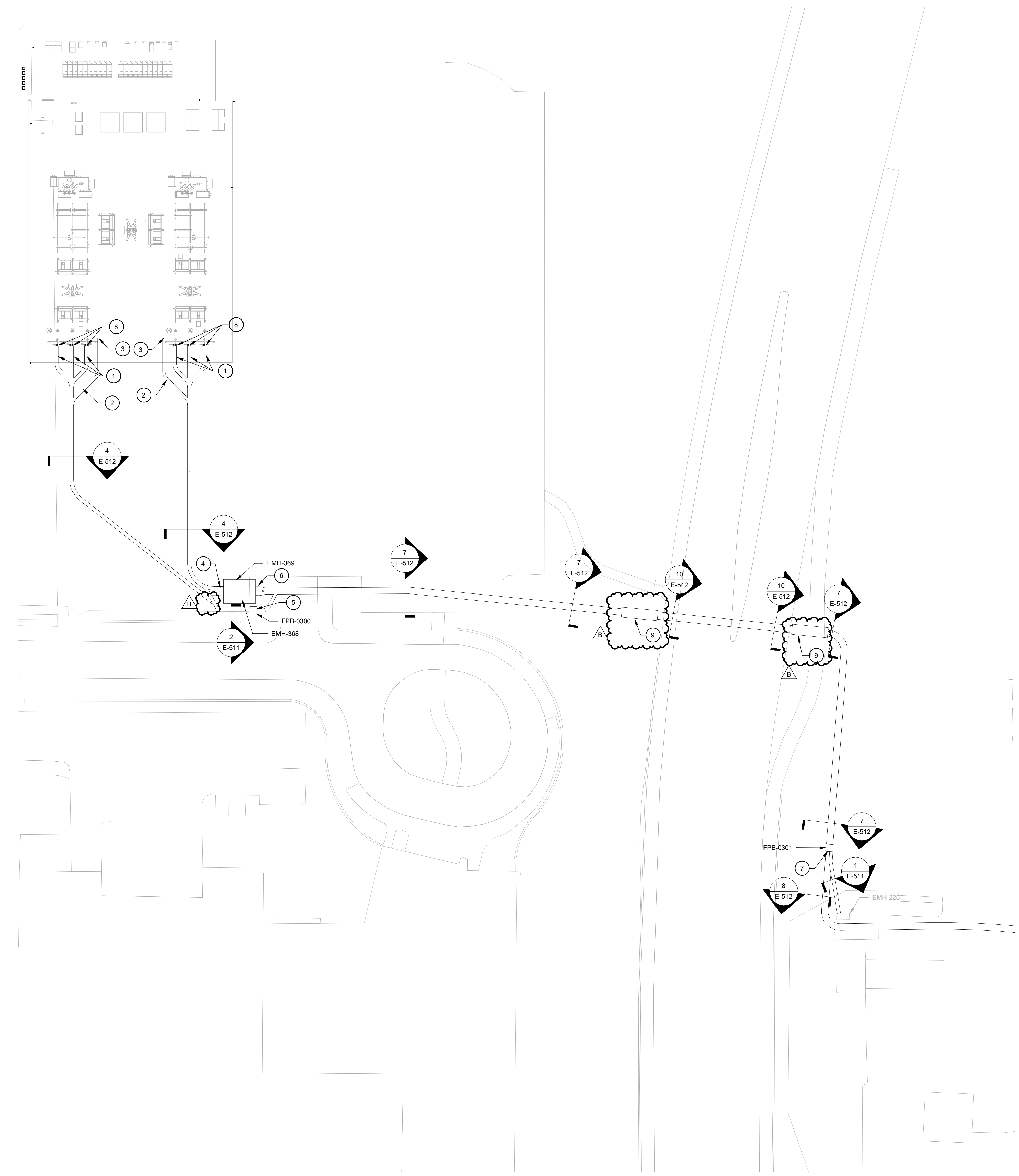
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B	12/11/24	TUTSIEL					
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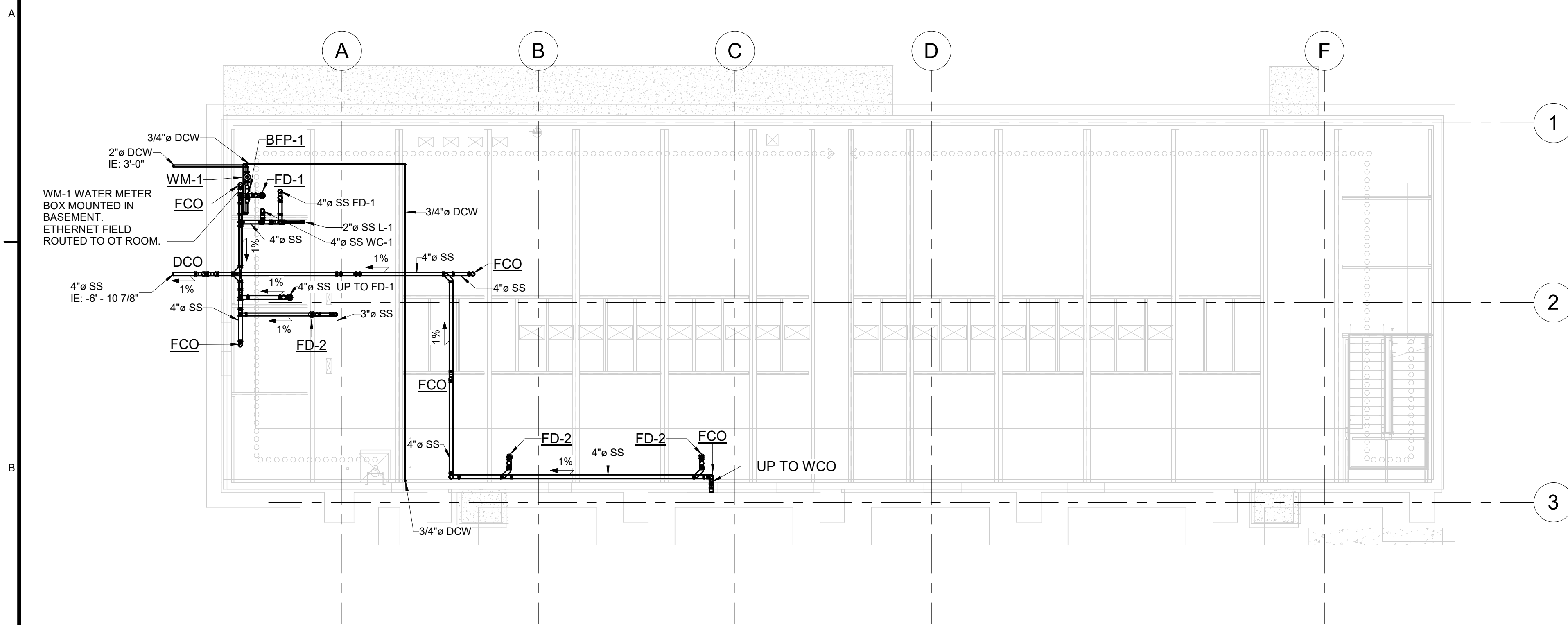
Project Title:
ELECTRICAL INTERCONNECT AND SUBSTATION

Drawing Title:
SUBSTATION TO TRANSITION RISER DUCT BANK PLAN SECTOR SB-S3

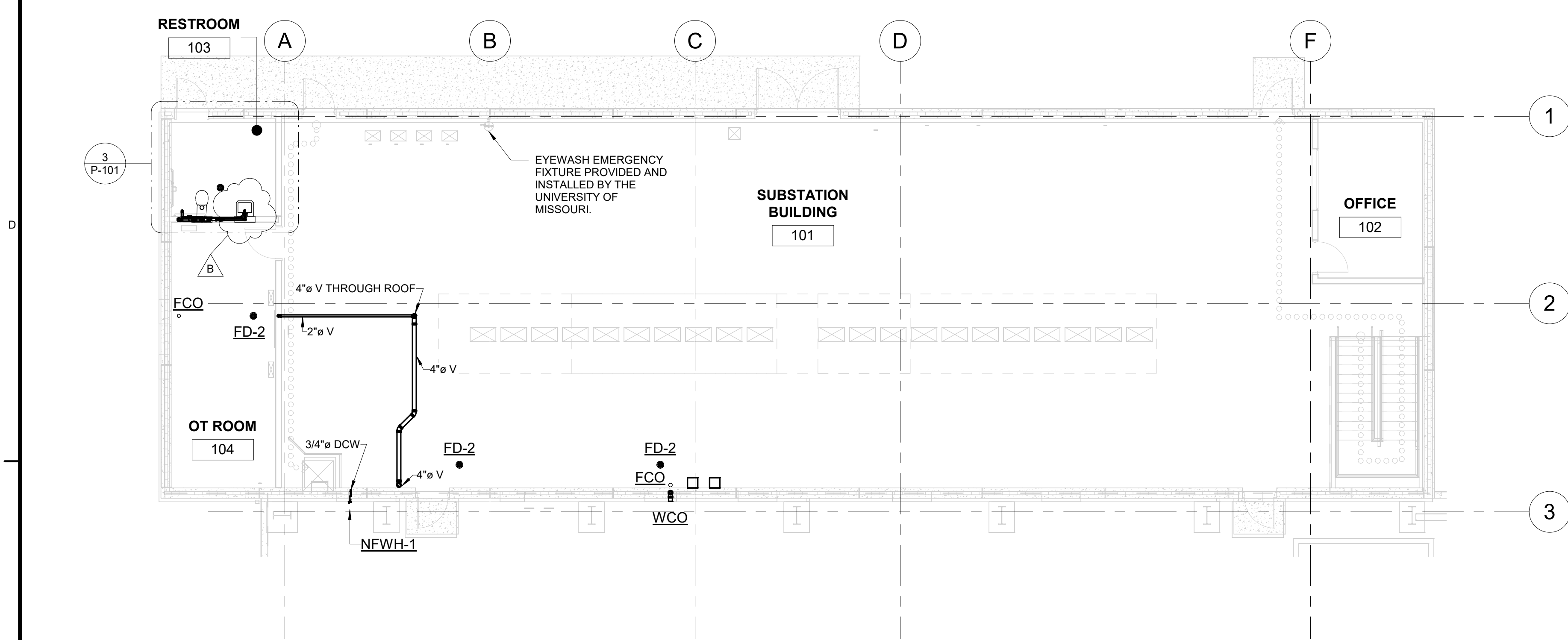
Date: 12/11/24
Proj. No.: D3570400
Drawing No.: ES-101



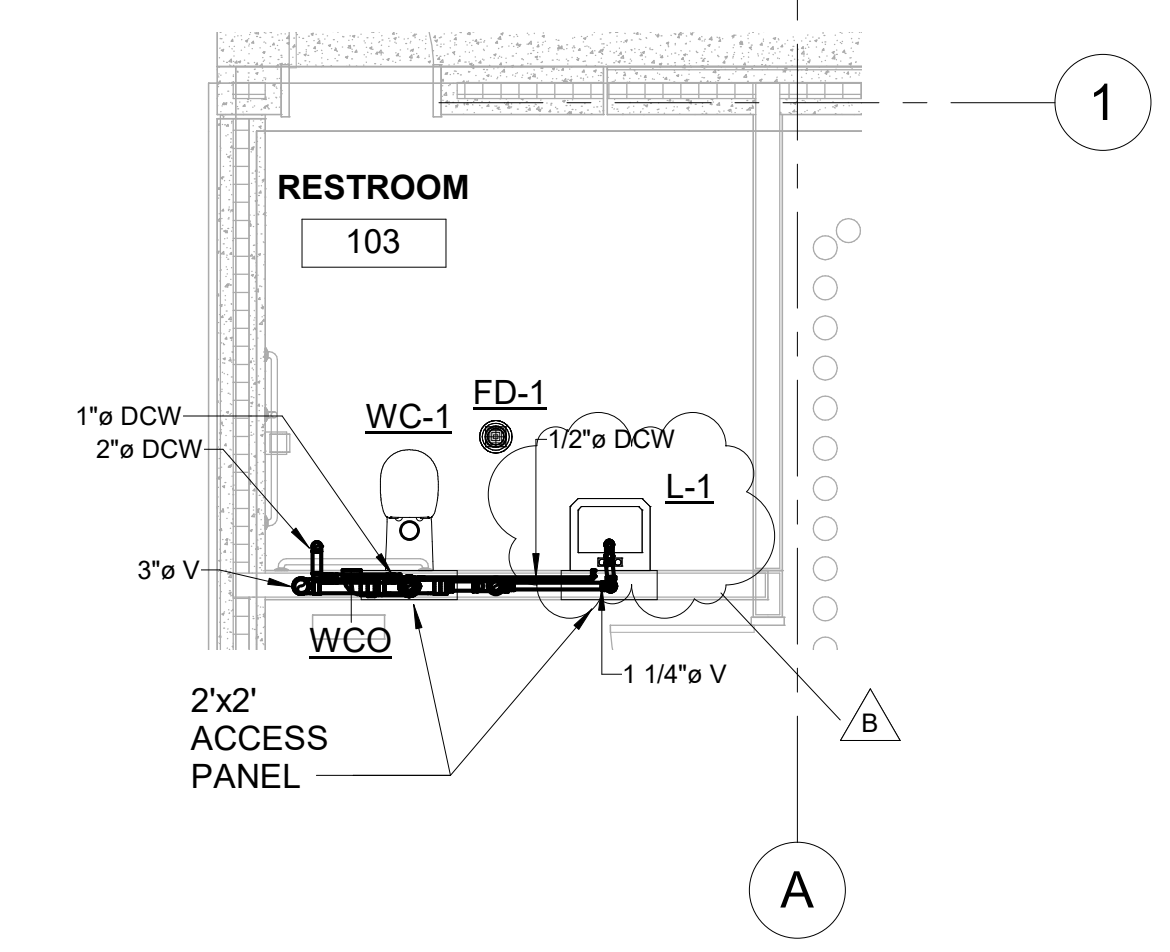
1 UNDERGROUND DUCT BANK ROUTING PLAN SB-S3
1" = 30'-0"



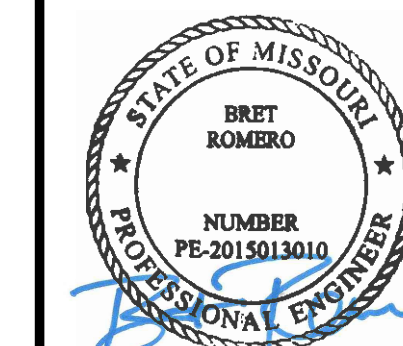
2 PLUMBING FLOOR PLAN - UNDERSLAB
1/8" = 1'-0"



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



3 ENLARGED PLUMBING PLAN - RESTROOM 103
1/4" = 1'-0"



NO.	DATE	REVISION	Author	Checker	APVD
1	12/11/24	ISSUED FOR BID			
2	12/11/24	ISSUED FOR BID			



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Project Title:
**ELECTRICAL INTERCONNECT
AND SUBSTATION**
Drawing Title:
PLUMBING FLOORPLAN

Date: 12/11/24
Proj. No.: D3750400
Drawing No.: P-101

