

777 Old Saw Mill River Road
Tarrytown, NY 10591-6707
T: 914.847.7400
F: 914.847.7991
www.regeneron.com

Building #17
Campus Expansion Child
Day-care Center

777 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect
Gensler
1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti
120 Broadway, 15th Floor
New York, NY 10271
(917) 661-7800 Phone
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

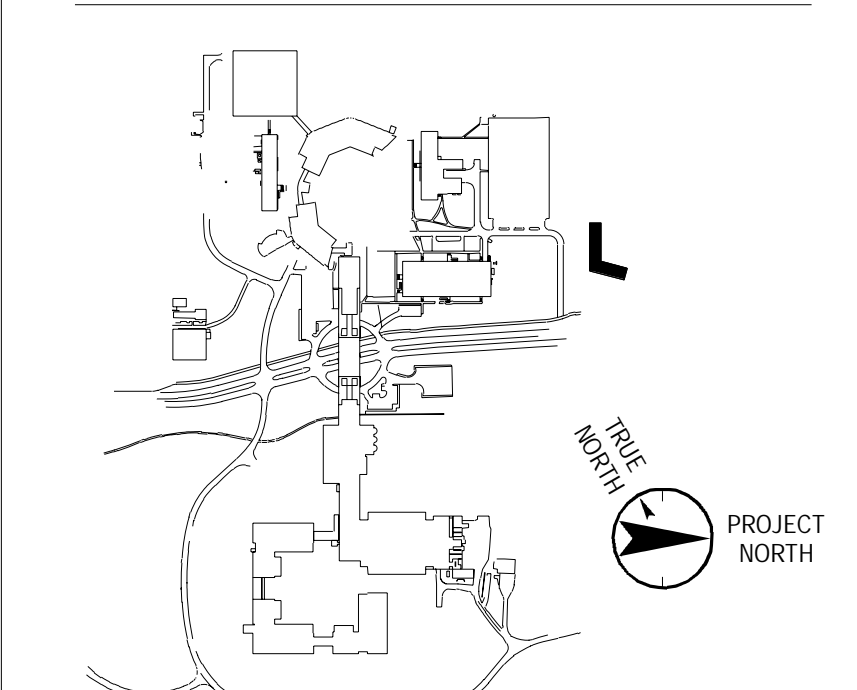
Civil Engineer

JMC
120 Bedford Road
Armonk, NY 10504
(914) 273-5225 Phone
(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No.	Date	Description
0	06.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

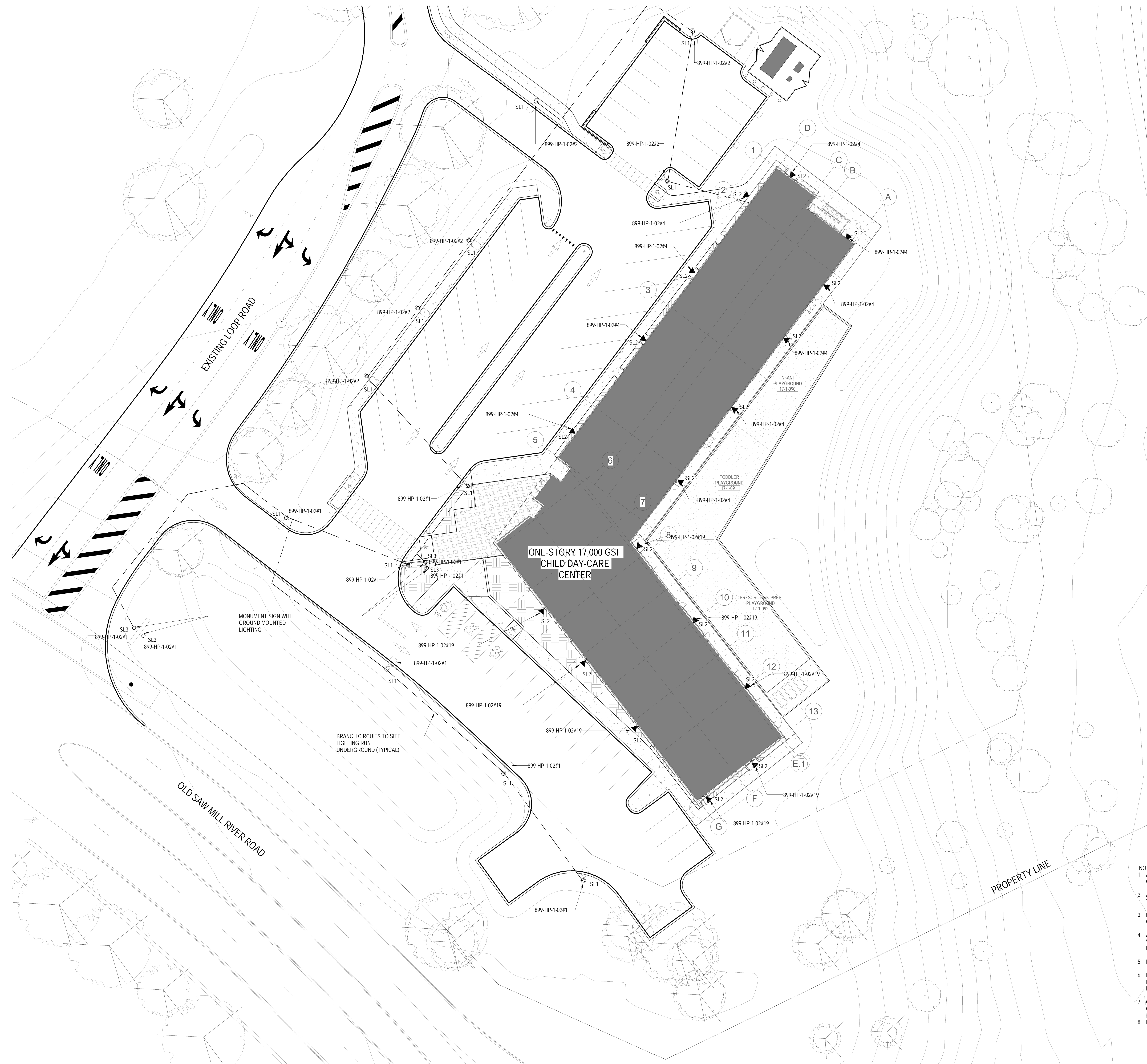
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI
**ELECTRICAL SITE LIGHTING
PLAN**

Scale: 1/16" = 1'-0" Floor:

E-052



- NOTES:
1. ALL UNDERGROUND CONDUITS SHALL BE RIGID GALVANIZED CONDUIT PVC COATED WITH THREADED FITTINGS, UNLESS SPECIFIED ELSEWHERE.
 2. ALL UNDERGROUND CONDUITS TO BE INSTALLED 24" BELOW GRADE. REFER TO DETAIL ON DRAWING E-502.
 3. BRANCH CIRCUITS TO SITE LIGHTING SHALL BE # 8 WIRE, INSTALL GROUNDWIRE IN ALL UNDERGROUND CONDUIT.
 4. ALL SITE LIGHTING SHALL BE CONTROLLED VIA PHOTO-CELL TIME CLOCK VIA THE LIGHTING CONTROL PANEL. FINAL LOCATION OF THE EXTERIOR PHOTOCELL TO BE DETERMINED IN THE FIELD.
 5. FOR SITE LIGHTING FIXTURE SCHEDULE REFER TO DRAWING E-603.
 6. FOR EXACT QUANTITY, LOCATION, AND TYPE FOR SITE LIGHTING FIXTURES, REFER TO CIVIL ENGINEERS DRAWING C-600 FOR ADDITIONAL INFORMATION.
 7. COORDINATE EXCAVATION AND BACKFILL FOR UNDERGROUND EXTERIOR CONDUIT WITH GENERAL CONTRACTOR.
 8. FOR LIGHTING CONTROL ZONE SCHEDULES REFER TO DRAWING E-602.

M

① SITE LIGHTING PLAN
1/16" = 1'-0"

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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[illegible]

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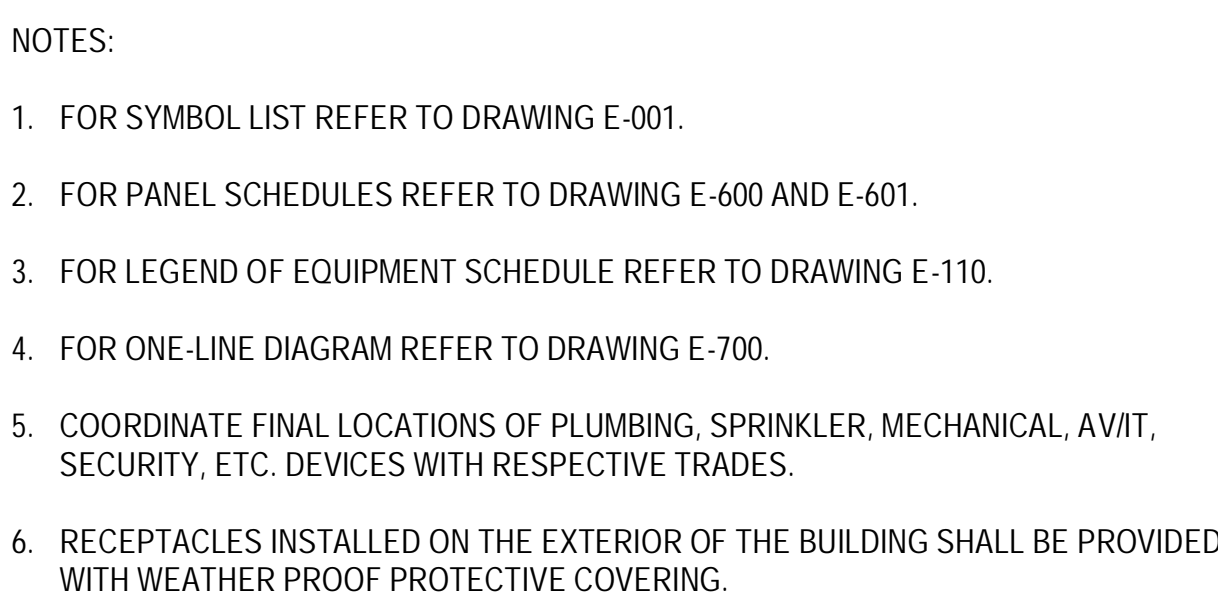
Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI
**ELECTRICAL EQUIPMENT
POWER PLAN - 1ST FLOOR**

Scale: $1/8" = 1'-0"$ Floor:

E-110

WORK NOTES FOR LEGEND OF EQUIPMENT ITEMS	
1	EXTEND INDICATED POWER CIRCUIT AND CONNECT SAME TO THE LINE TERMINALS OF THE EQUIPMENT--THE FINAL PORTION (NOT TO EXCEED 48" IN LENGTH) SHALL BE FLEXIBLE METALLIC CONDUIT.
2	PROVIDE THE CIRCUIT, CIRCUITRY UTILIZING WIRING METHOD AND SIZING AS SPECIFIED FOR MOTOR CONTROLS.
3	PROVIDE SUITABLE PANEL ON OUTLET BOX--PROVIDE "SOLID" POWER CIRCUIT CONNECTION TO EQUIPMENT CONSISTING OF FLEXIBLE METALLIC CONDUIT CONTAINING WIRES OF SIZE AND TYPE EQUAL TO THOSE SUPPLYING THE OUTLET--NUMBER OF WIRES SHALL BE AS REQUIRED FOR THE EQUIPMENT FOR FLUSH OUTLET BOX, PROVIDE EXTENSION CORD TO ALLOW FOR (SEE ENTRY OF CONNECTION).
4	PROVIDE POWER CIRCUIT WIRING BETWEEN THE VARIOUS COMPONENTS OF THE EQUIPMENT AS DIRECTED.
5	INSERT PLUG OF EQUIPMENT INTO RECEPTACLE.
6	INSTALL CONTROL DEVICES FURNISHED SEPARATE FROM ELECTRIC WORK AND PROVIDE CONTROL WIRING BETWEEN SAME AS DIRECTED.
24	PROVIDE 8.0 WATTS PER LINEAR FOOT (OUTPUT RATED) PIPE HEATER STRIP AS PER DETAIL "VIII" OF LENGTH AS NOTED ON PLANS WITH EQUIPMENT DESIGNATION SYMBOL.
39	PROVIDE DISCONNECT MEANS WITH CONNECTIONS AS REQUIRED TO INTERPOSE SAME BETWEEN TERMINATION OF BUILDING WIRING AND LINE TERMINALS OF UNIT--TYPE OF CONNECTIONS AND MOUNTING LOCATION TO BE IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE MANUFACTURER OF THE UNIT.
40	ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, APPURTENANCES AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION AS PER INSTRUCTIONS ISSUED BY SYSTEM VENDOR (KNOW: FINAL LOCATION FOR THIS ITEM SHALL BE COORDINATED WITH ARCHITECT).
41	CONTRACTOR TO PROVIDE HARD WIRED CONNECTIONS OR NEMA TYPE RECEPTACLES FOR KITCHEN APPLIANCE AS PER MANUFACTURER REQUIREMENTS
103	PROVIDE 30MA GROUND FAULT PROTECTION.
104	REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF THIS ITEM AND ASSOCIATED DUCT SMOKE DETECTORS.
105	PROVIDE ALL HEAT TRACING APPURTENANCES, ETC. AS PER MANUFACTURER REQUIREMENTS. FINAL LOCATION AND LENGTH OF HEAT TRACE PIPING SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING TRADE.
106	THE CIRCUIT BREAKER FEEDING THIS ITEM SHALL BE GFI TYPE.
109	EXTEND INDICATED POWER CIRCUIT AND CONNECT SAME TO THE LINE TERMINALS OF THE EQUIPMENT--THE FINAL PORTION (NOT TO EXCEED 48" IN LENGTH) SHALL BE FLEXIBLE METALLIC CONDUIT.

899-DWH-1-01 FEEDER TIGHT TO
UNDERSIDE OF STRUCTURE.
REFER TO DRAWING E-700 FOR
ADDITIONAL INFORMATION



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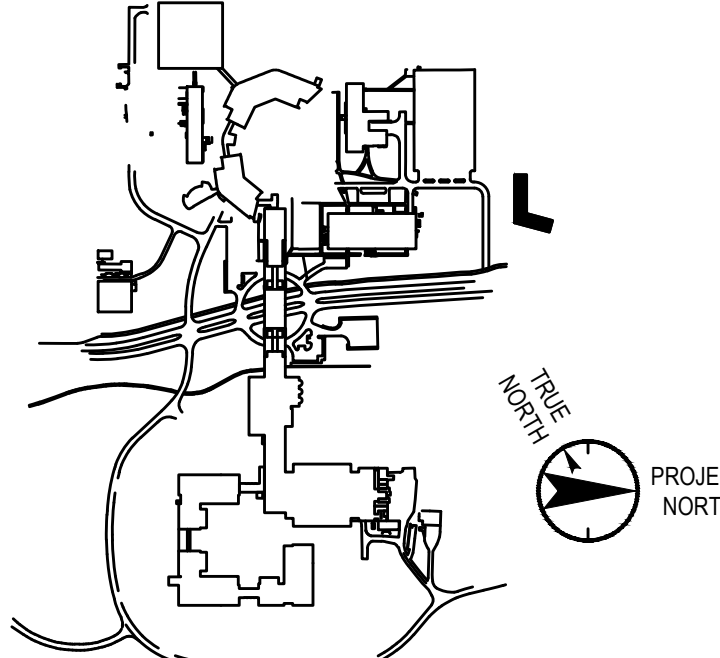
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Professional Seal and Signature

Vendor Name: COSENTINI

Vendor Project No.: 210104

Discipline: Electrical Drawn By: AI

ELECTRICAL
LIGHTNING PROTECTION
SITE PLAN

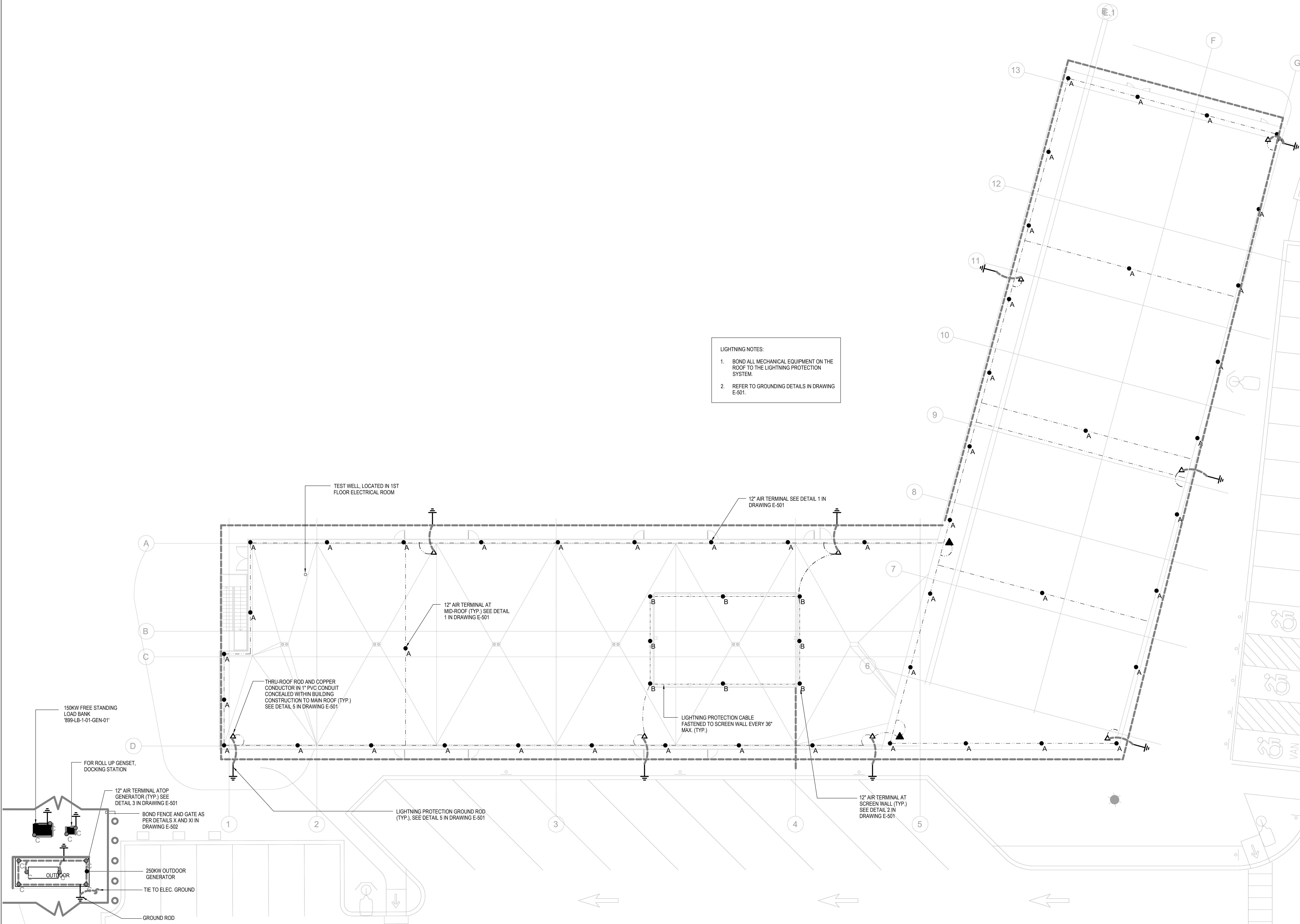
Scale: 1/8" = 1'-0" Floor:

E-121

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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1 SITE LIGHTNING PROTECTION PLAN
1/8" = 1'-0"

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Civil Engineer

JMC

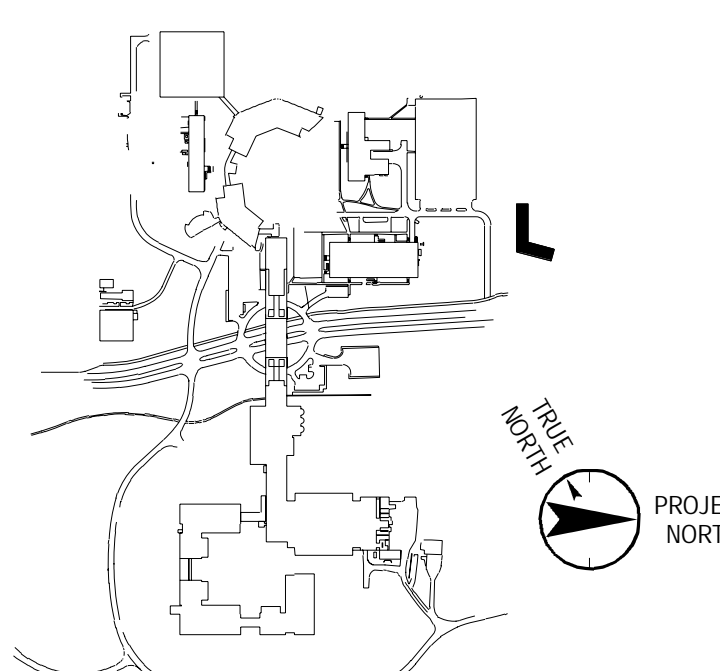
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Key Plan



No. Date Description

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2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

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Professional Seal and Signature

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Vendor Project No.: 210104

Discipline: Electrical

Drawn By: AI

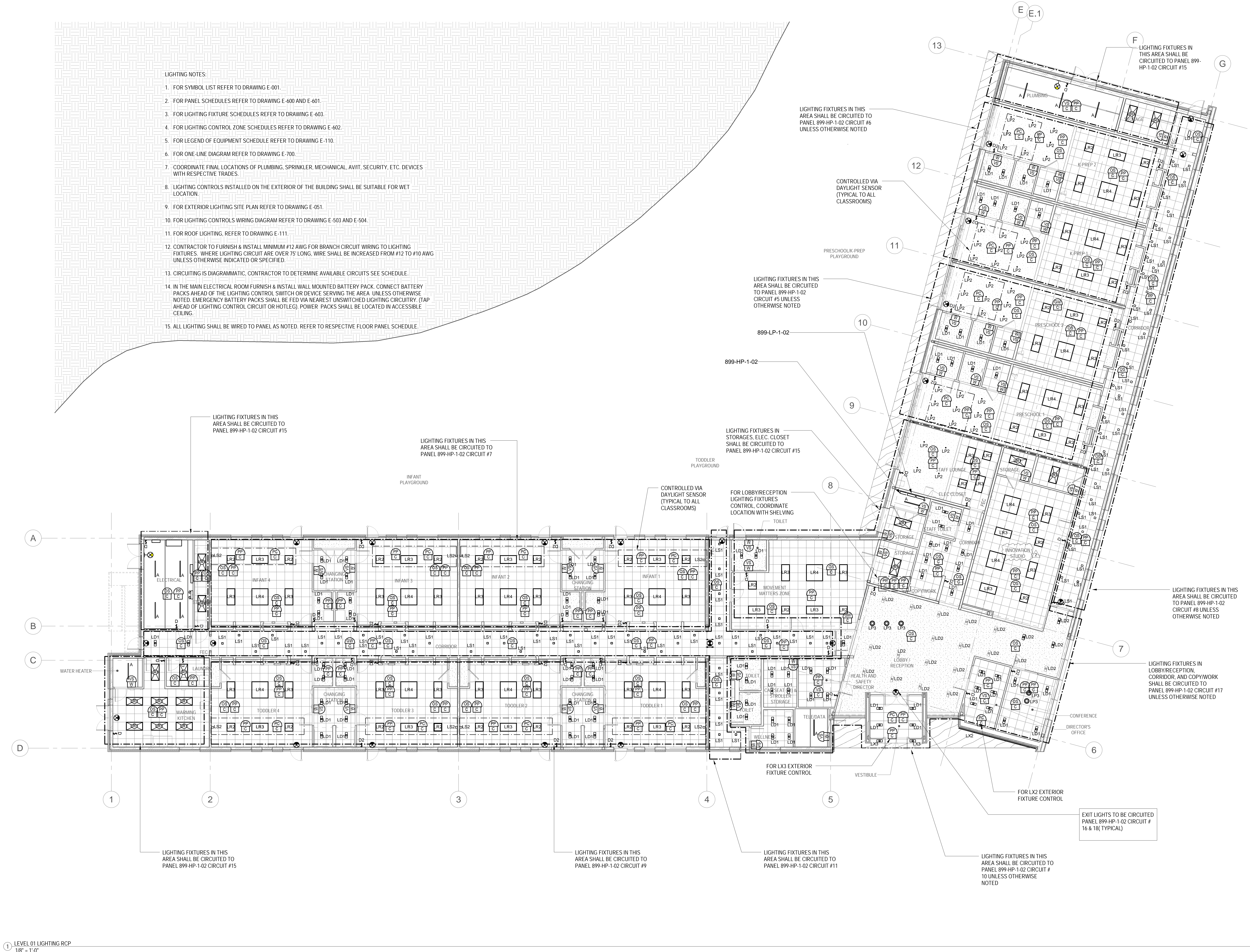
ELECTRICAL LIGHTING PLAN -

1ST FLOOR

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

Floor:

E-150



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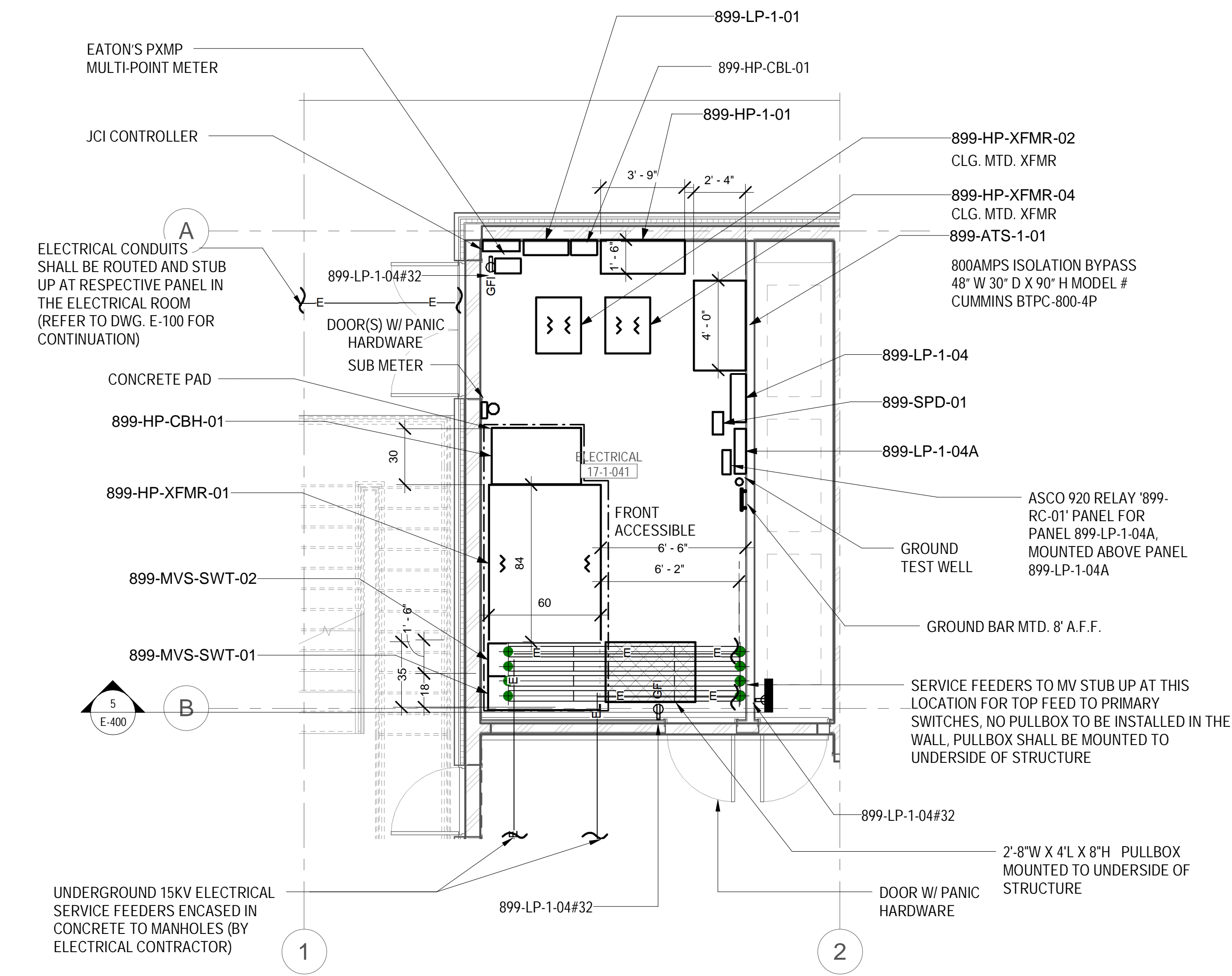
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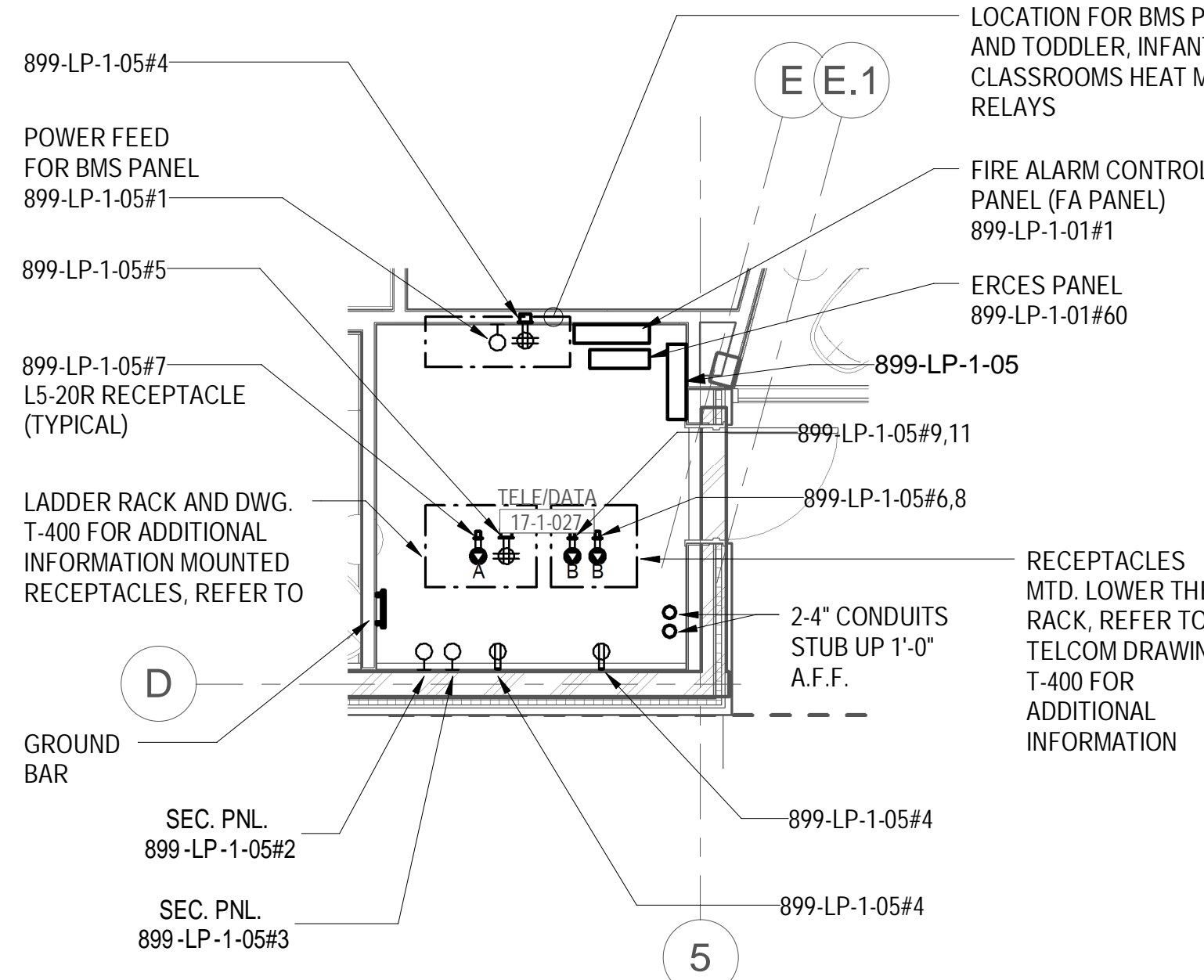
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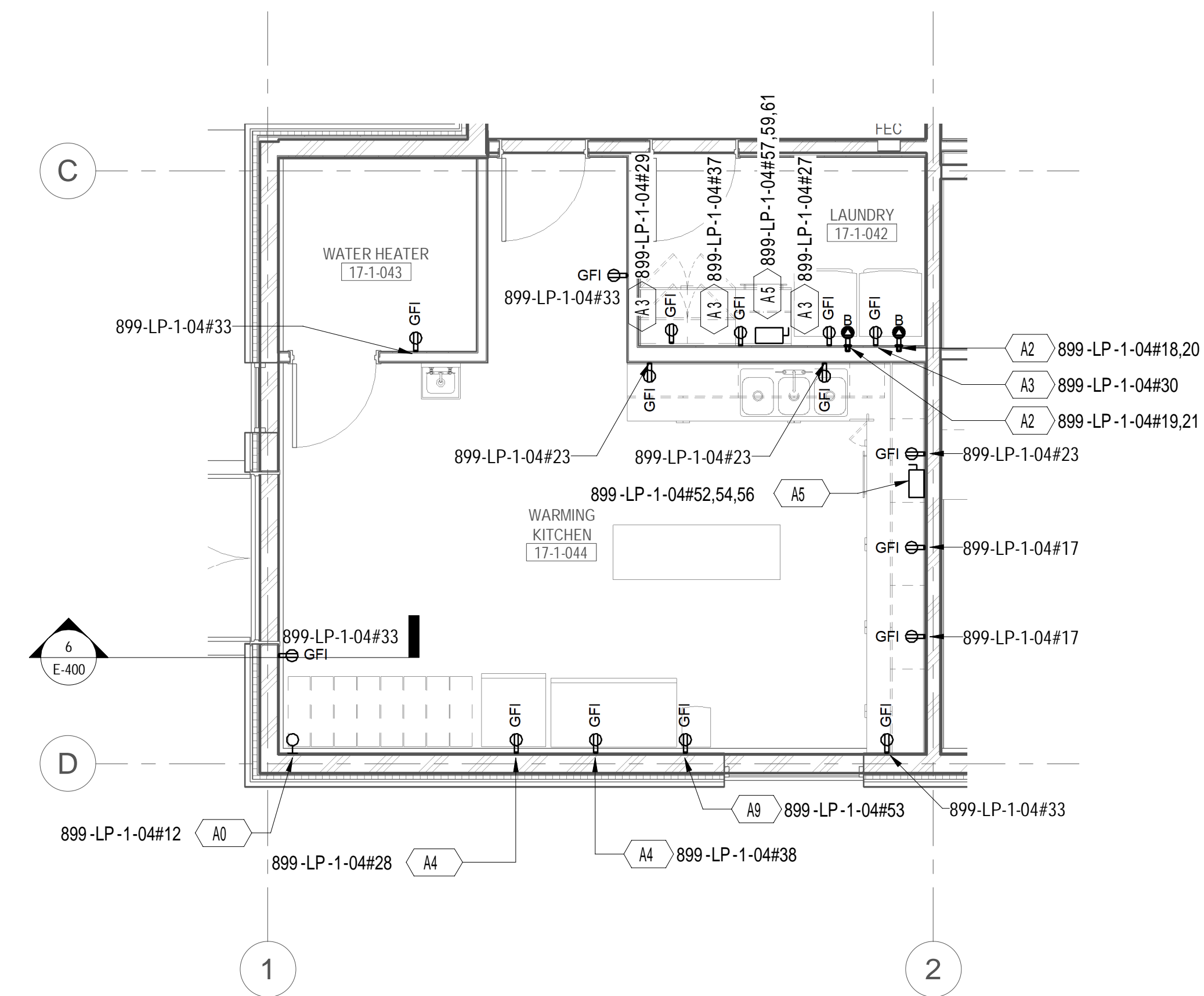
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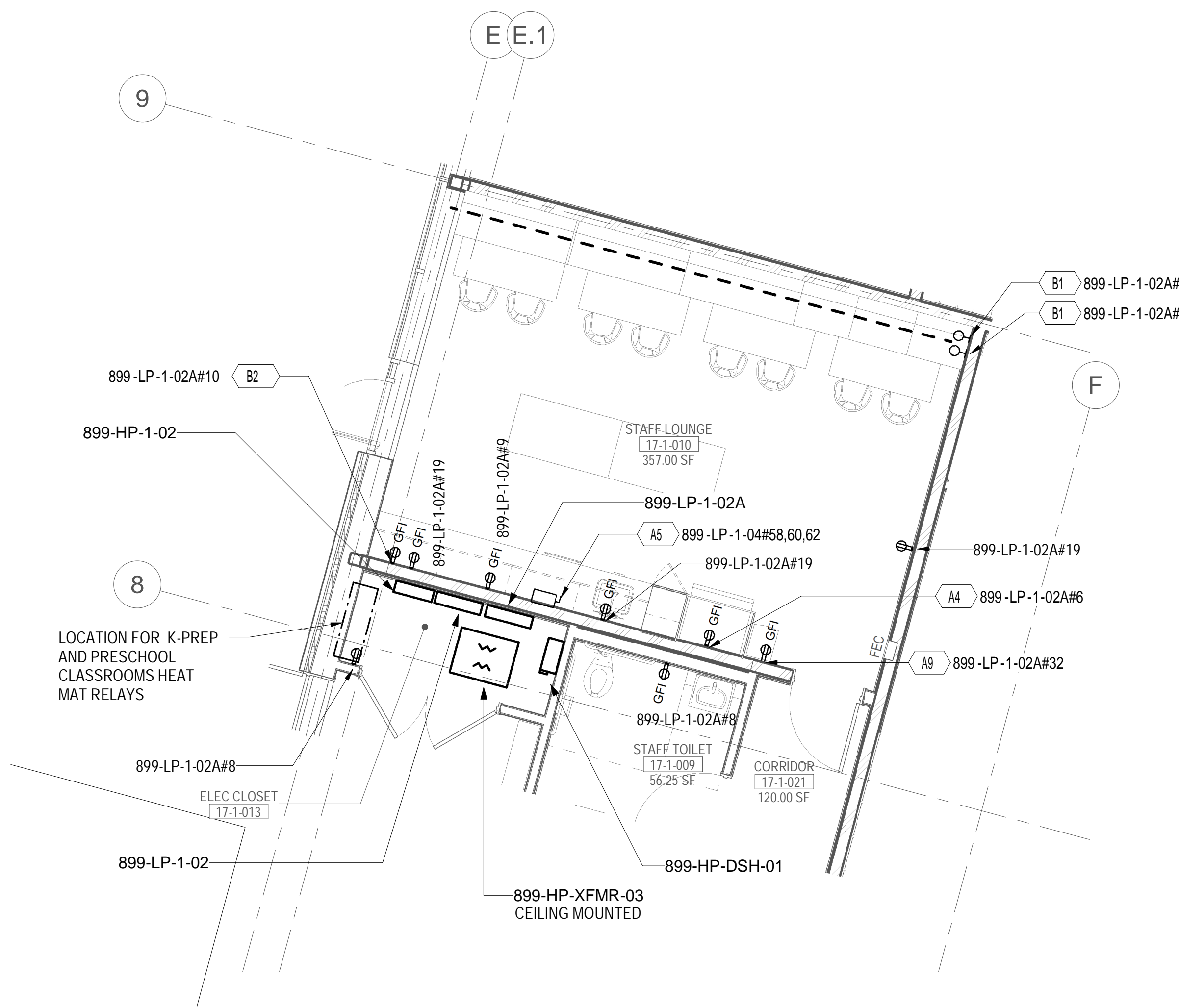
LEVEL 01 POWER PART PLAN - ELECTRICAL
ROOM
1/4" = 1'-0"



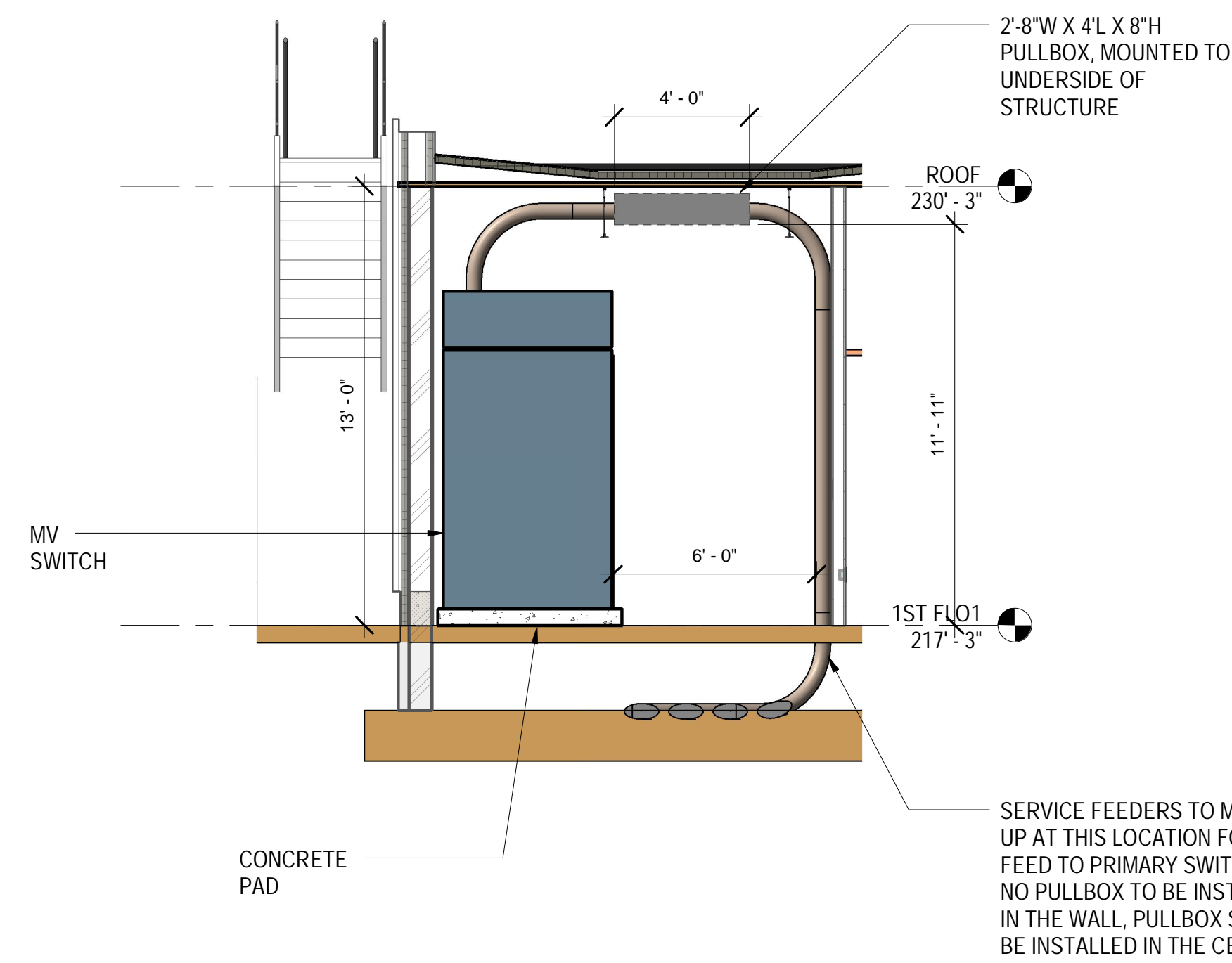
LEVEL 01 POWER PART PLAN - TELE DATA
ROOM
1/4" = 1'-0"



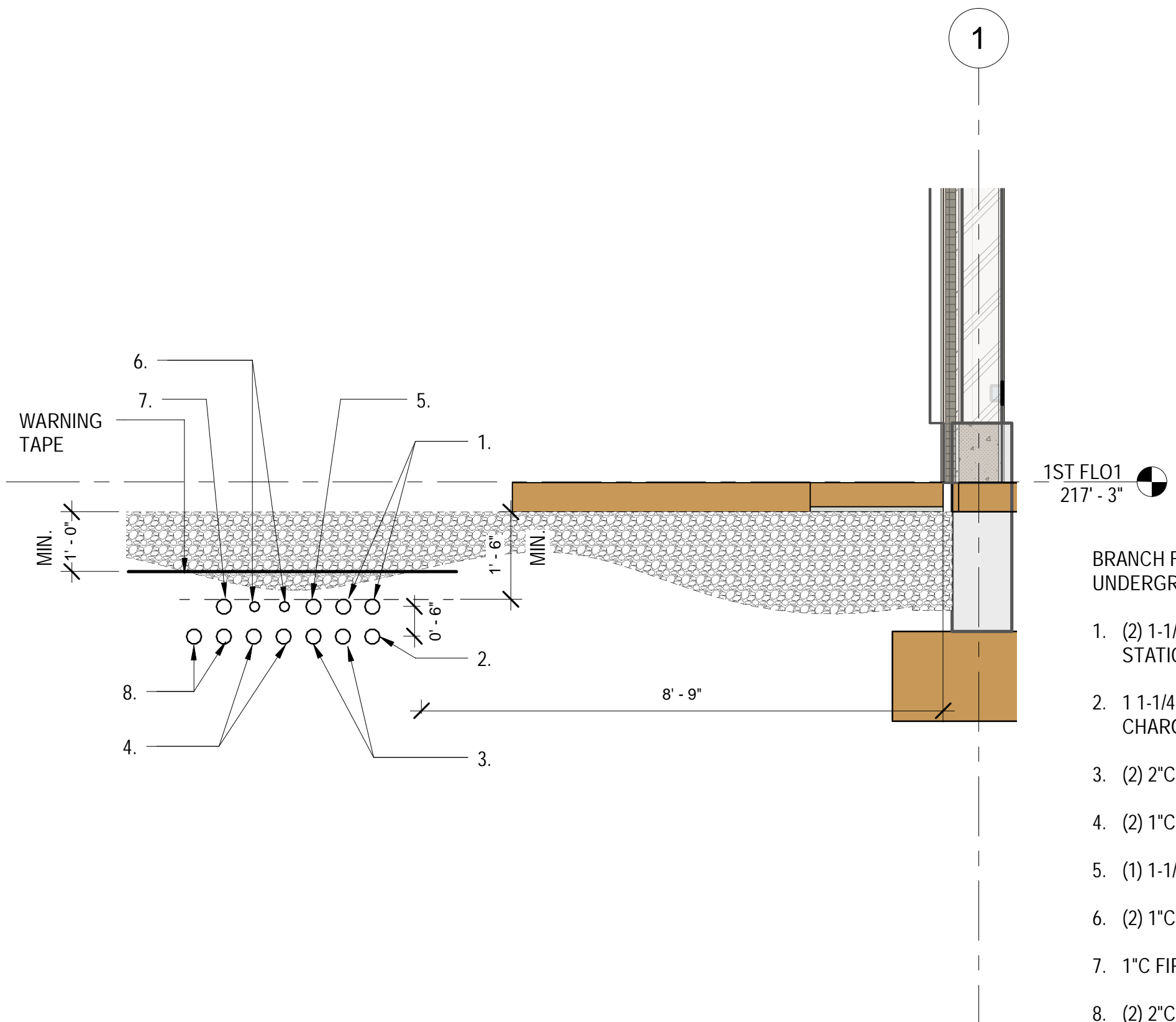
LEVEL 01 POWER PART PLAN - LAUNDRY,
WARMING KITCHEN, AND WATER HEATER ROOM
1/4" = 1'-0"



LEVEL 01 POWER PART PLAN - ELECTRICAL
CLOSET AND STAF F LOUNGE
1/4" = 1'-0"



ELECTRICAL ROOM ELEVATION PART PLAN
1/4" = 1'-0"

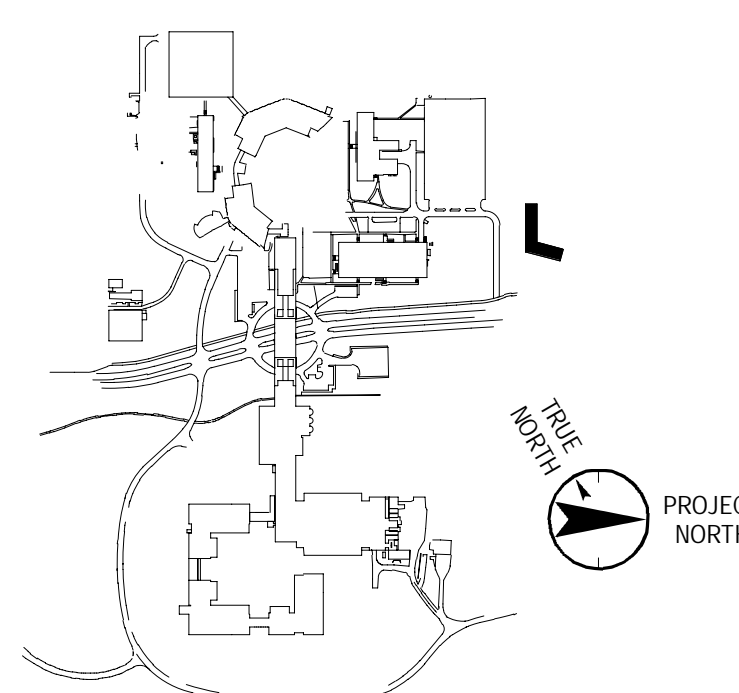


UNDERGROUND BRANCH FEEDERS DETAIL
1/2" = 1'-0"

GENERAL SHEET NOTES:

- FOR SYMBOL LIST REFER TO DRAWING E-601.
- FOR PANEL SCHEDULES REFER TO DRAWING E-600 AND E-601.
- FOR LIGHTING FIXTURE SCHEDULES REFER TO DRAWING E-601.
- FOR LIGHTING CONTROL ZONE SCHEDULES REFER TO DRAWING E-602.
- FOR LEGEND OF EQUIPMENT SCHEDULE REFER TO DRAWING E-110.
- FOR ONE-LINE DIAGRAM REFER TO DRAWING E-700.
- COORDINATE FINAL LOCATIONS OF PLUMBING, SPRINKLER, MECHANICAL, AVIT, SECURITY, ETC. DEVICES WITH RESPECTIVE TRADES.
- DEVICES SUBJECT TO OUTSIDE ELEMENTS OUTSIDE SHALL BE PROVIDED WITH WEATHER PROOF PROTECTIVE COVERING AND WEATHERPROOF TYPE.

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Vendor Name: COSENTINI
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Discipline: Electrical
ELECTRICAL ENLARGED
VIEWS - SHEET 1

Scale: As indicated Floor:

E-400

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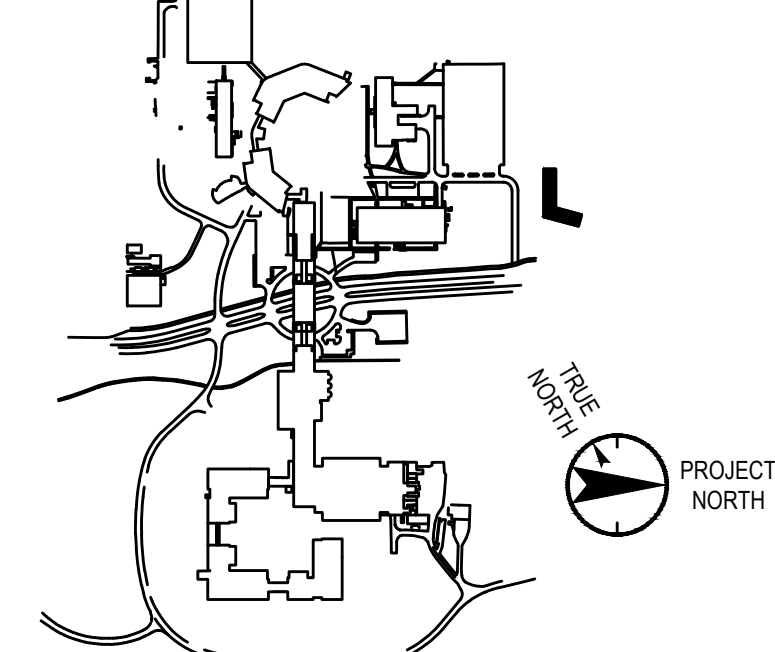
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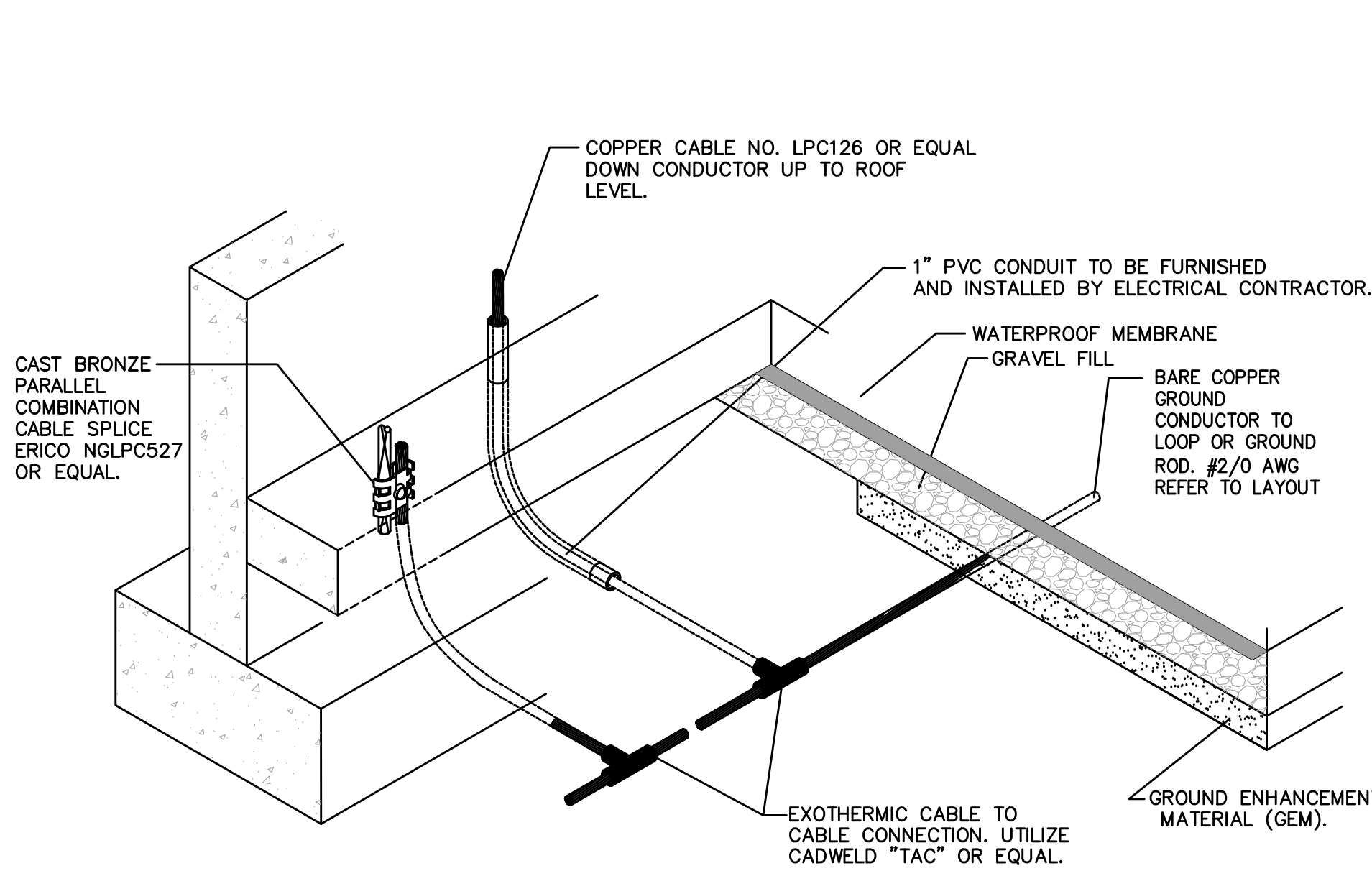
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ELECTRICAL DETAIL
SHEET 1

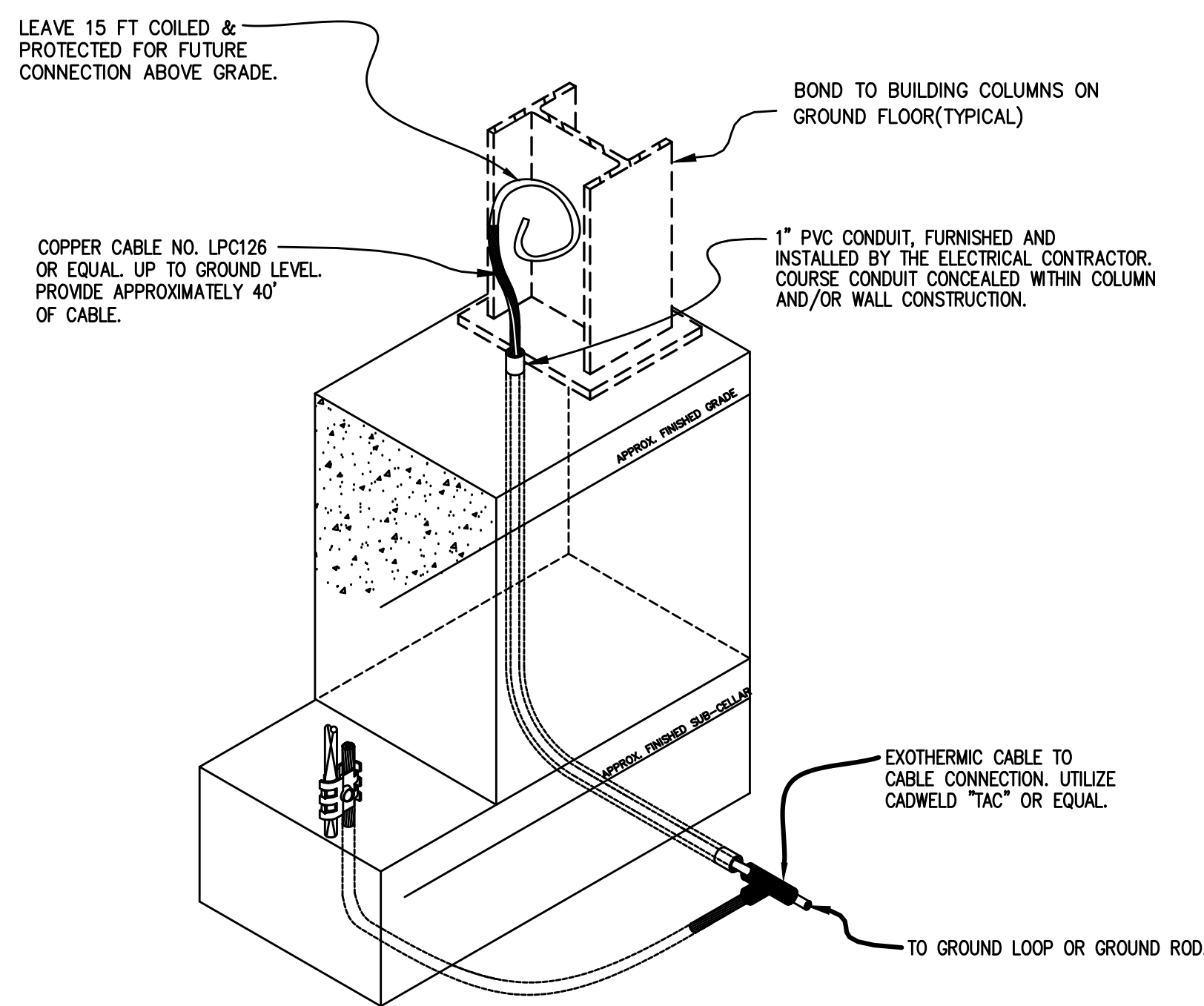
Scale: NTS Floor:

E-500



TYPICAL DOWNLEAD TO GROUND LOOP OR GROUND ROD

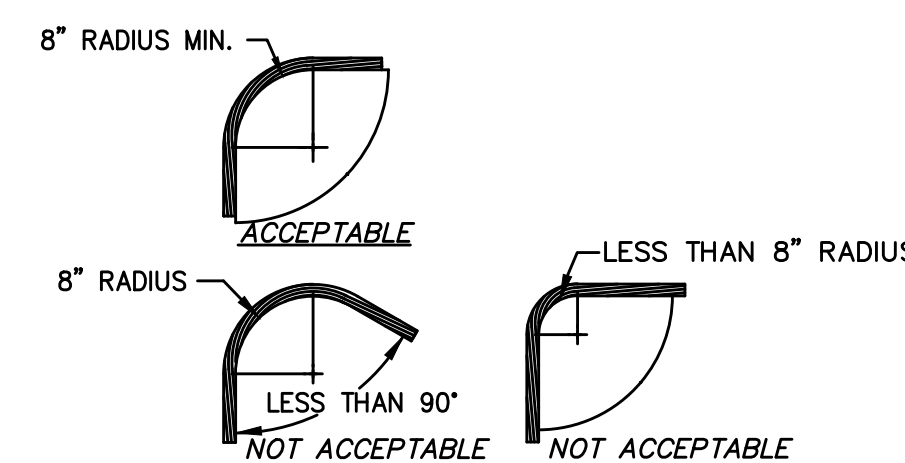
NOT TO SCALE
DETAIL IV



TYPICAL BOND TO BUILDING STEEL

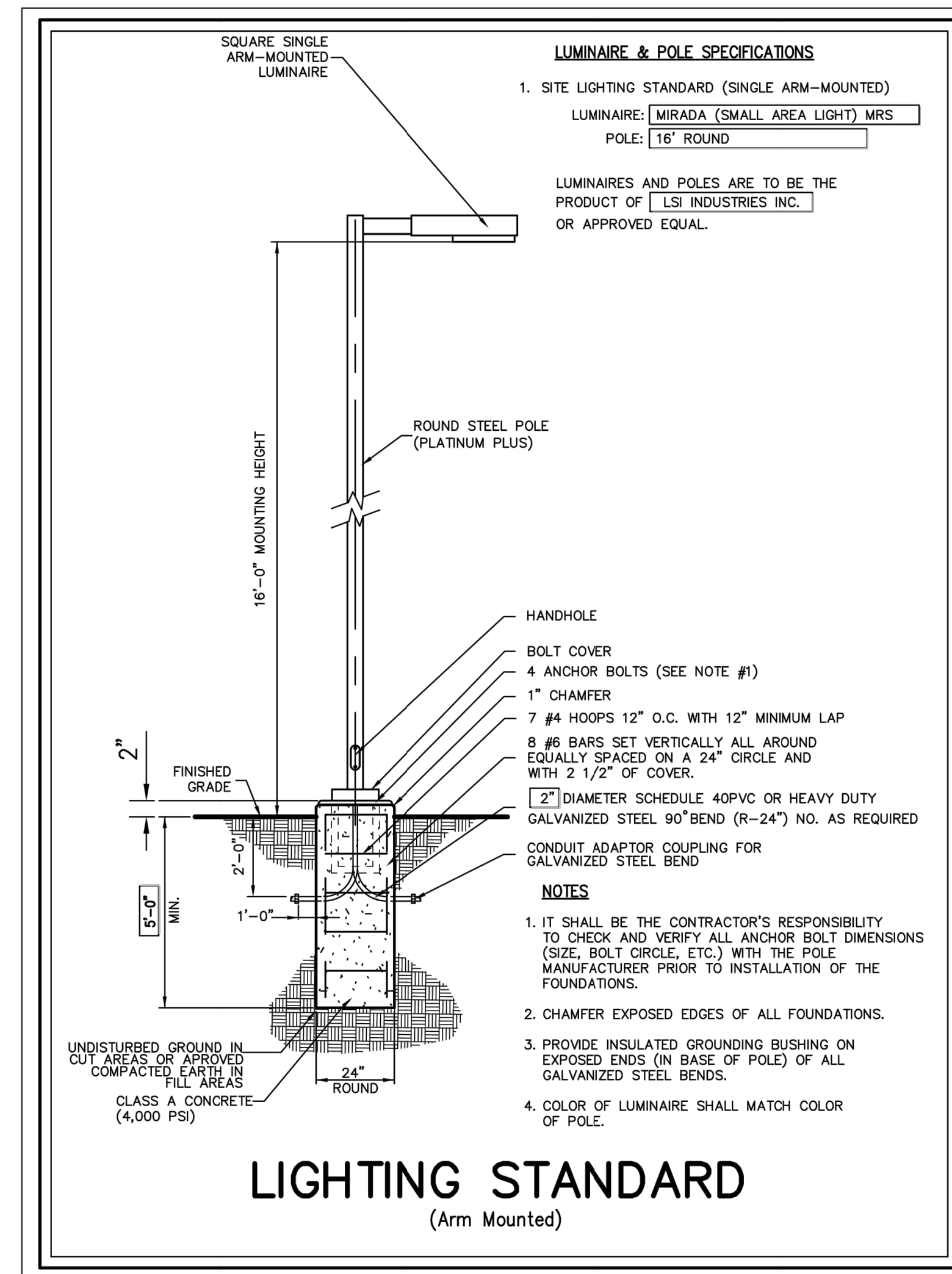
NOT TO SCALE
DETAIL V

NOTE: COORDINATE DOWN CONDUCTORS CONNECTIONS WITH FOUNDATION CONTRACTOR



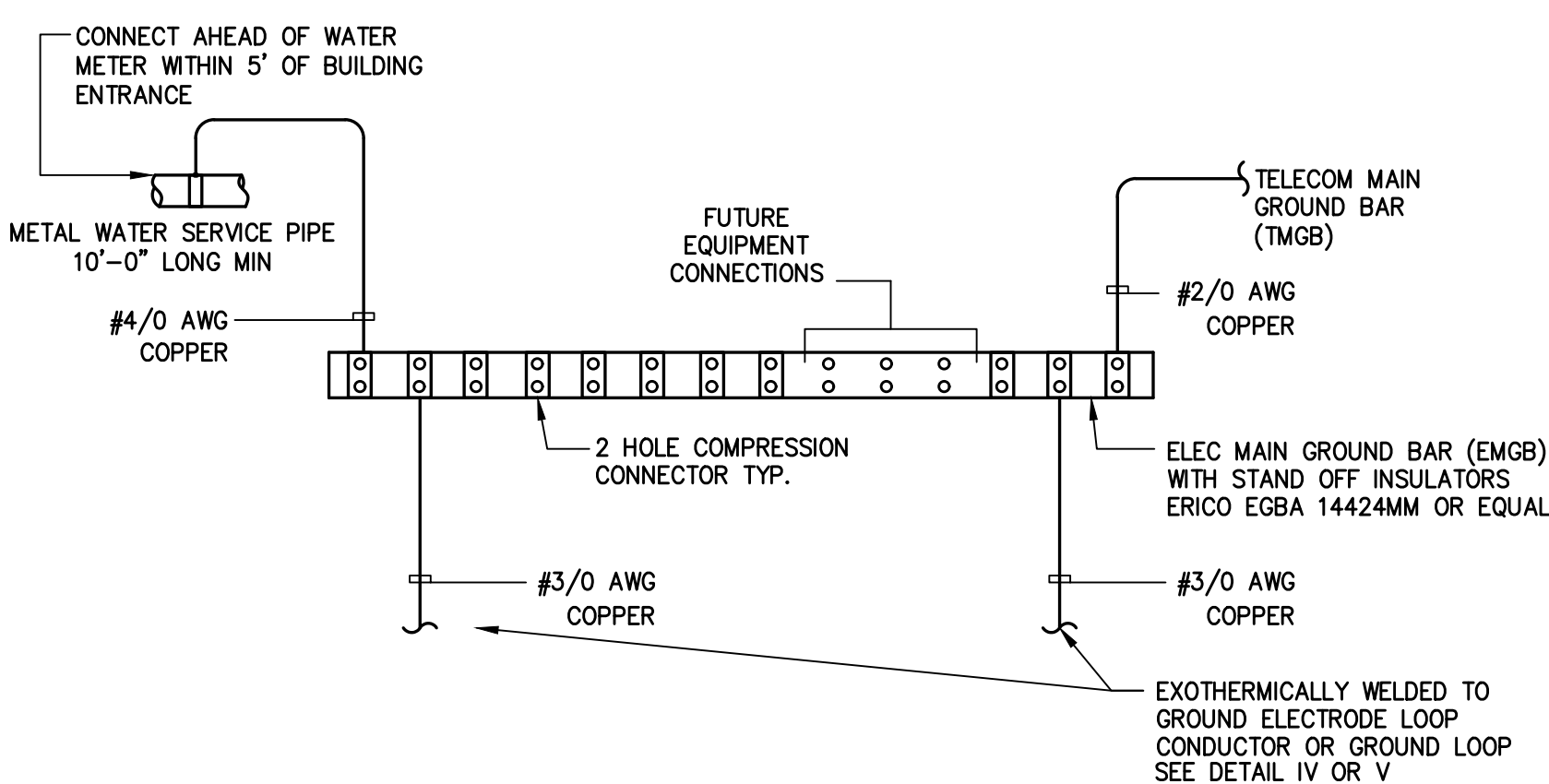
TYPICAL CABLE
BEND REQUIREMENTS

NOT TO SCALE
DETAIL VI



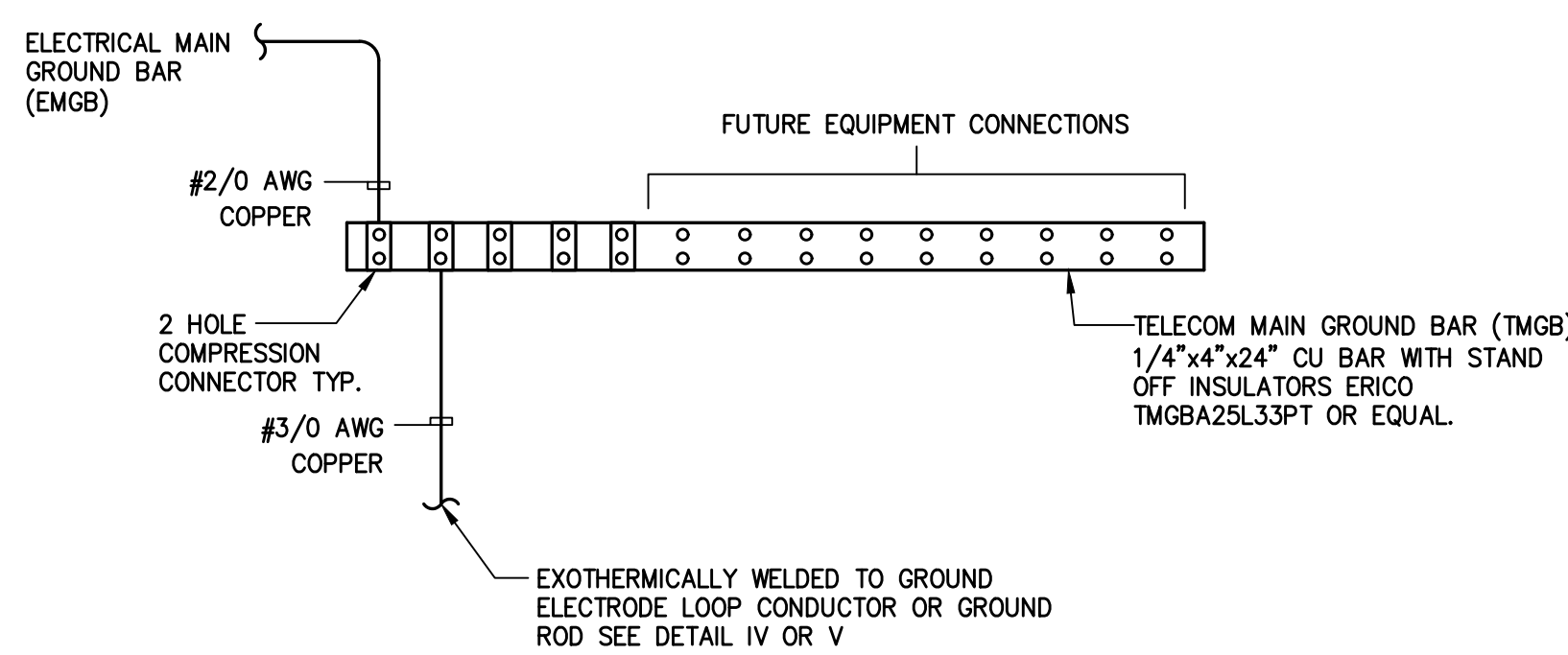
LIGHTING STANDARD
(Arm Mounted)

DETAIL IX



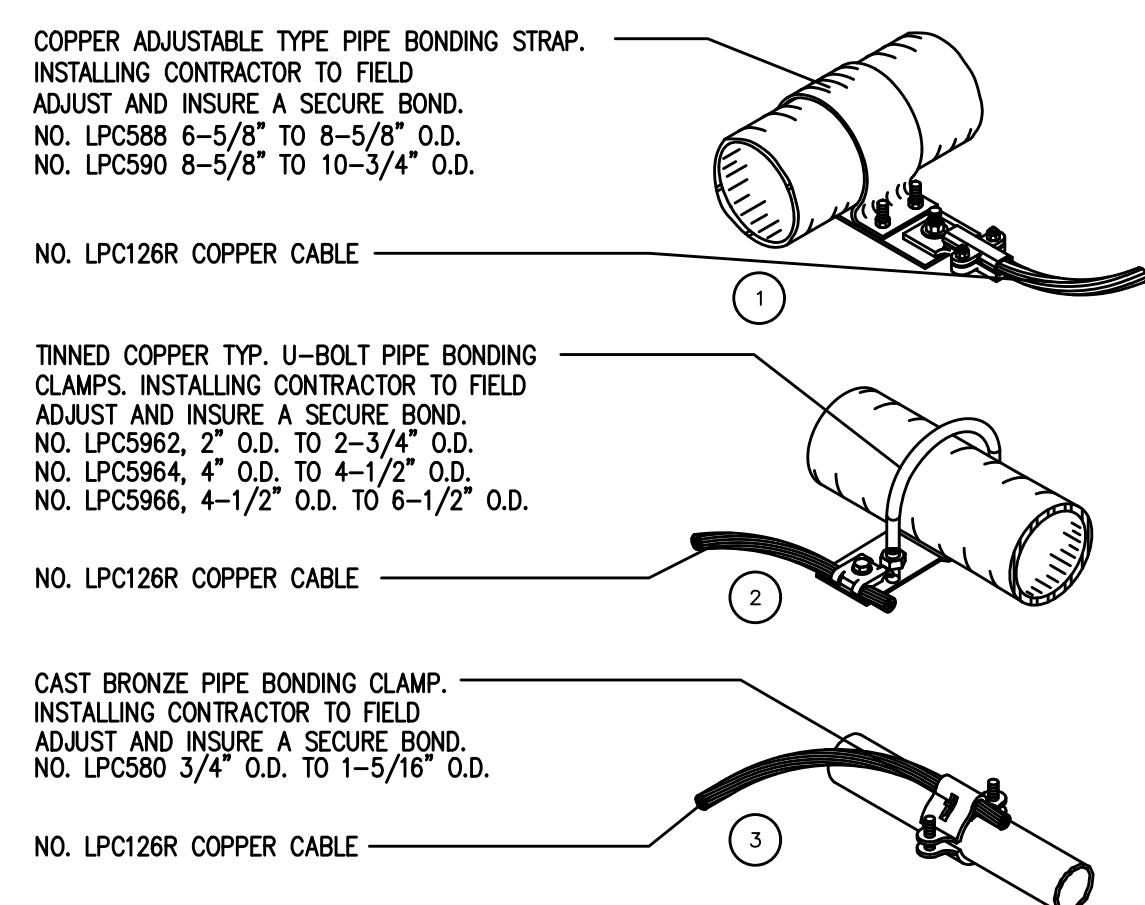
MAIN ELECTRICAL GROUNDING DIAGRAM

NO SCALE
DETAIL X



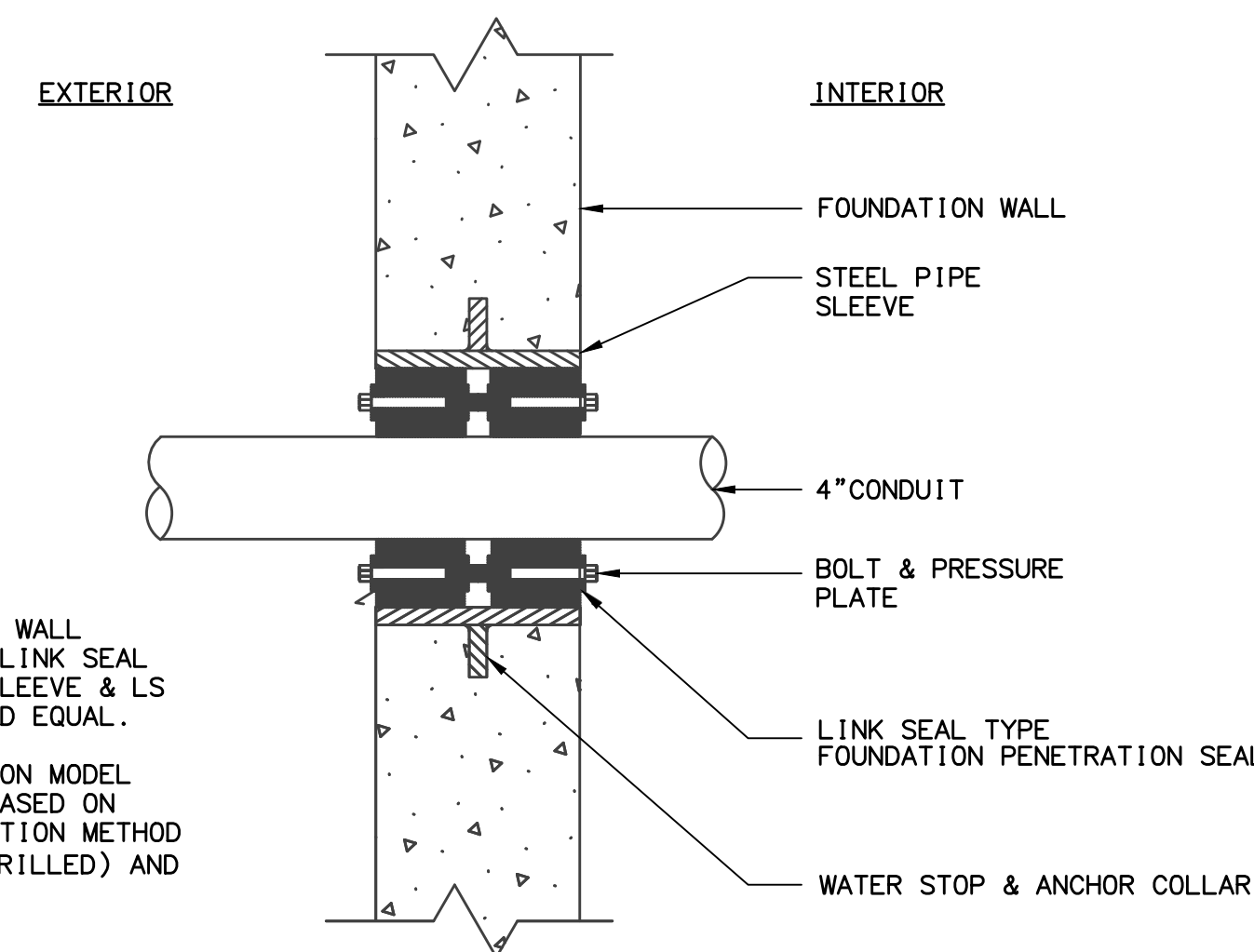
MAIN TELECOM GROUNDING DIAGRAM

NO SCALE
DETAIL XX



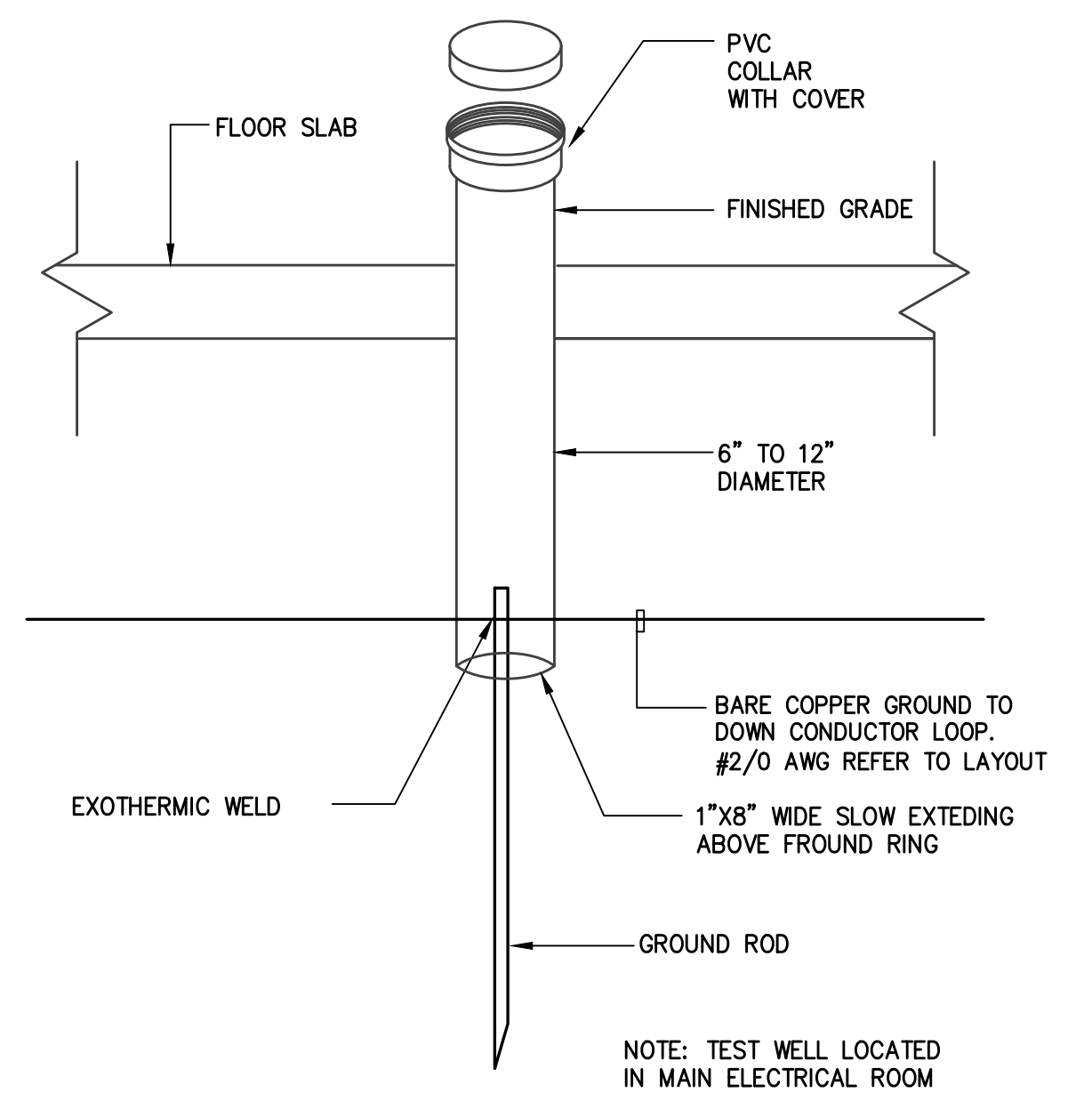
TYPICAL PIPE
BOND CLAMP

NOT TO SCALE
DETAIL VI



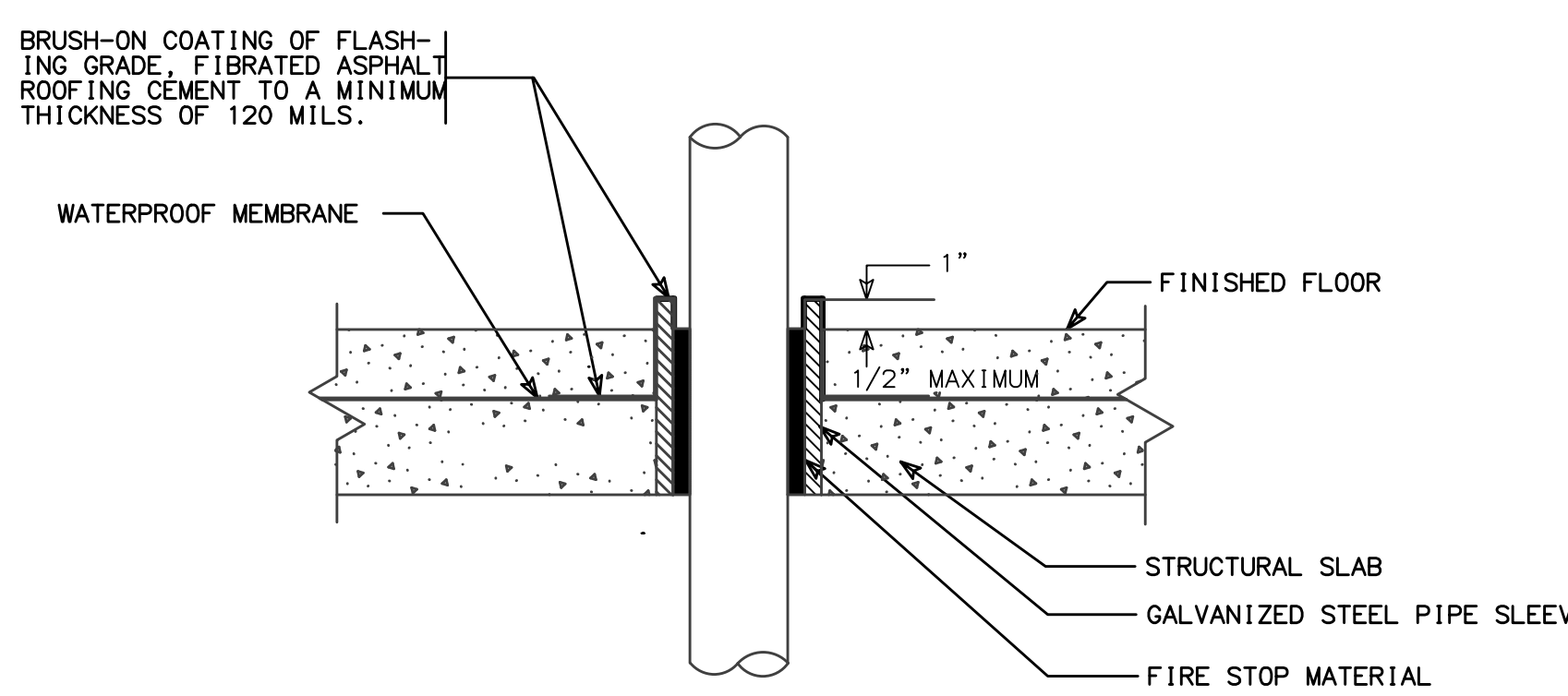
TYPICAL CONDUIT PENETRATION
THRU FOUNDATION WALL

NOT TO SCALE
DETAIL VII



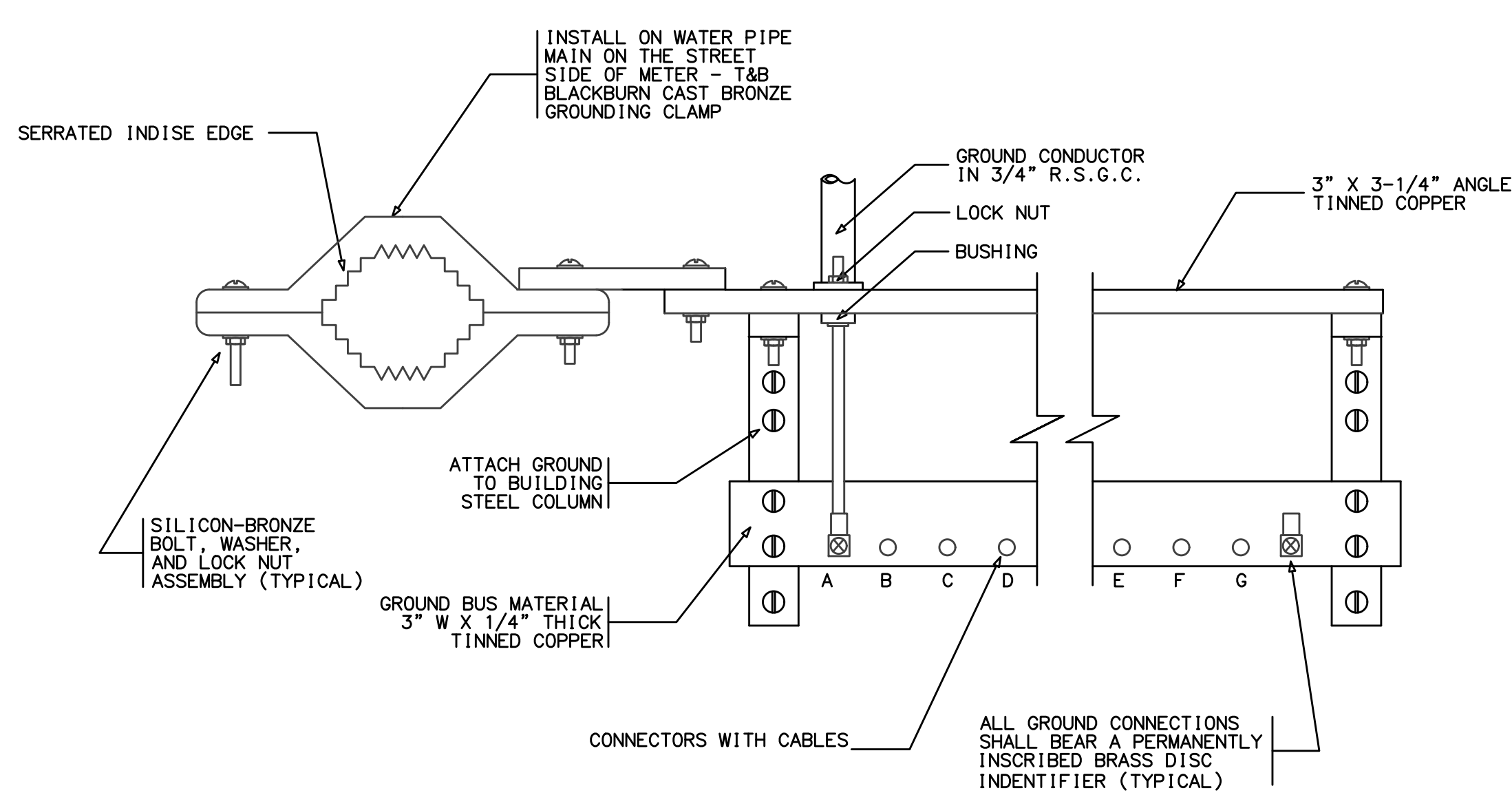
TYPICAL GROUNDING ROD WITH TEST WELL

NOT TO SCALE
DETAIL XXXIV



CONDUIT PENETRATION
WATERPROOF SLAB

NOT TO SCALE



GROUNDING
WATER PIPE GROUND CONNECTIONS AND GROUND BUS

NOT TO SCALE

GROUNDING
SYSTEM WITH GROUND BUS AND NEUTRAL BUS

NOT TO SCALE

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Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

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Civil Engineer

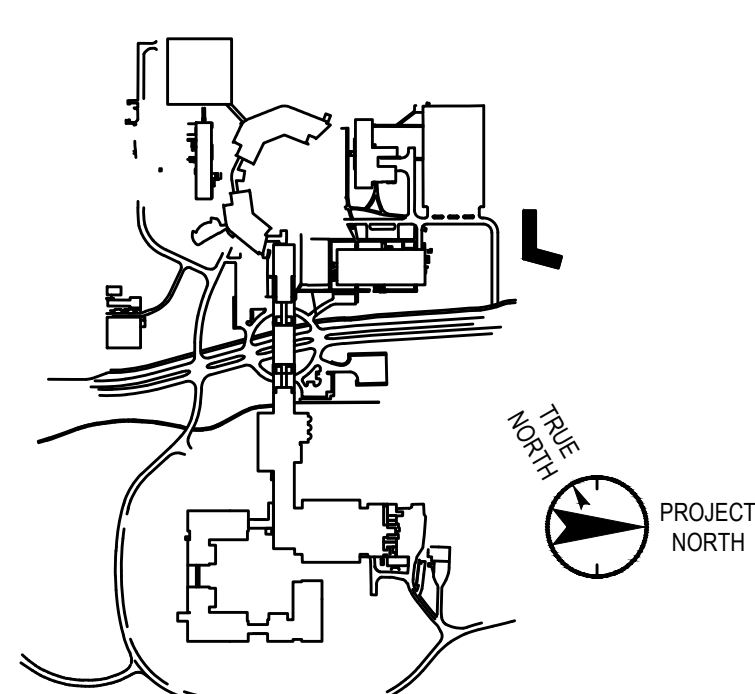
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(914) 273-2102 Fax

Landscape Architect

Langan

21 Penn Plaza, 360 West 31st Street, 8th Floor
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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT
1 06.20.2022 100% CONSTRUCTION DOCUMENTS
2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

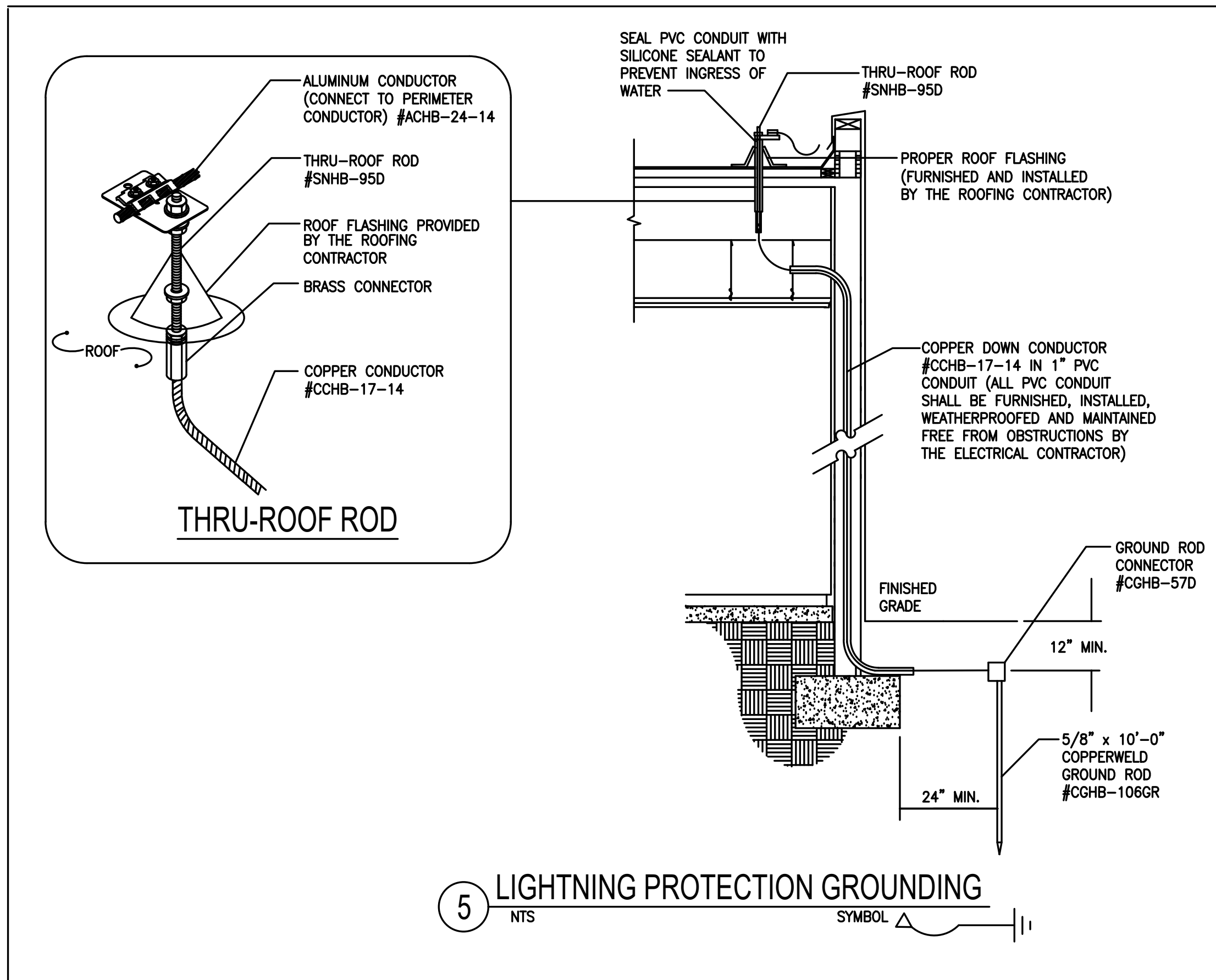
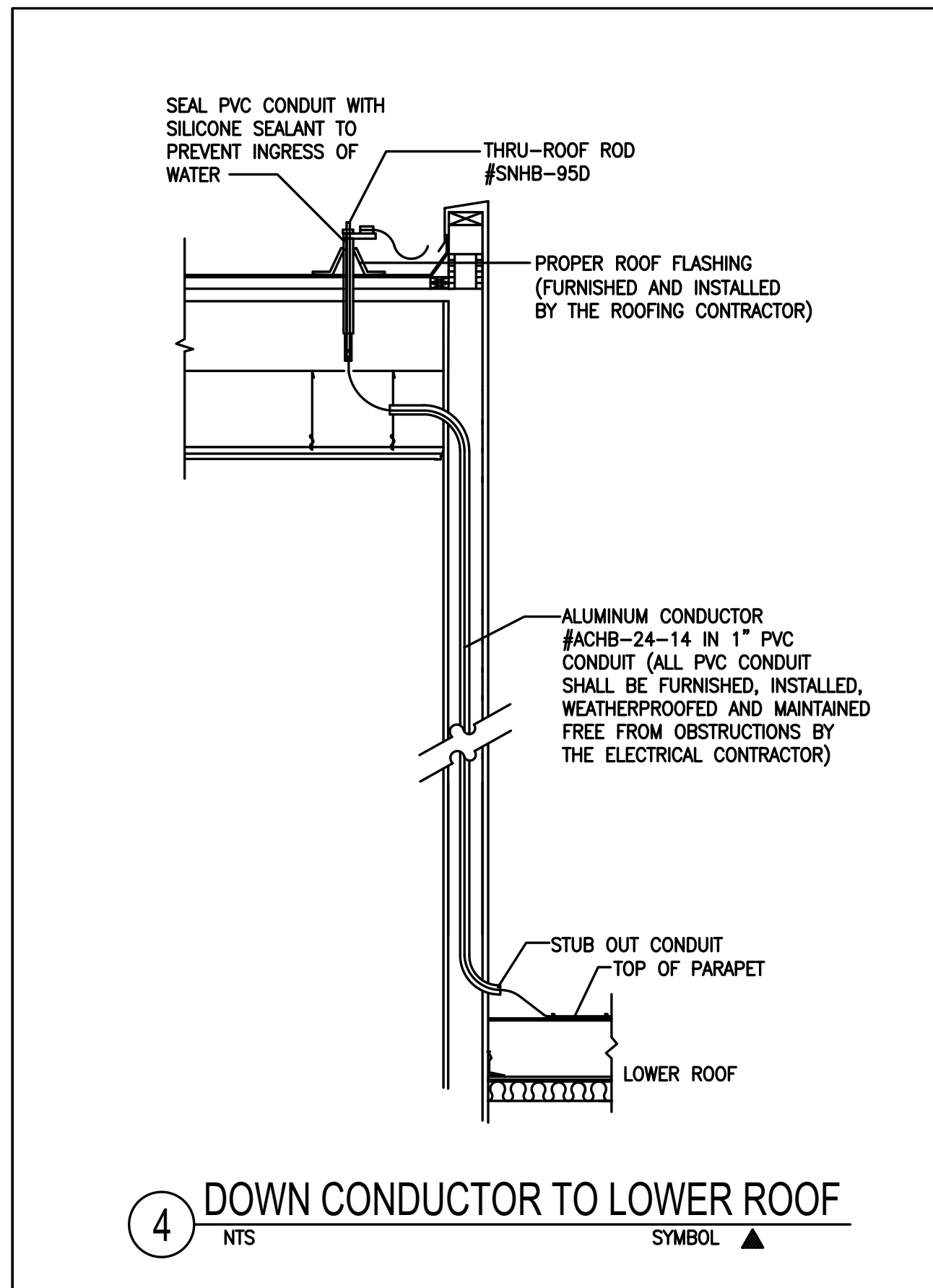
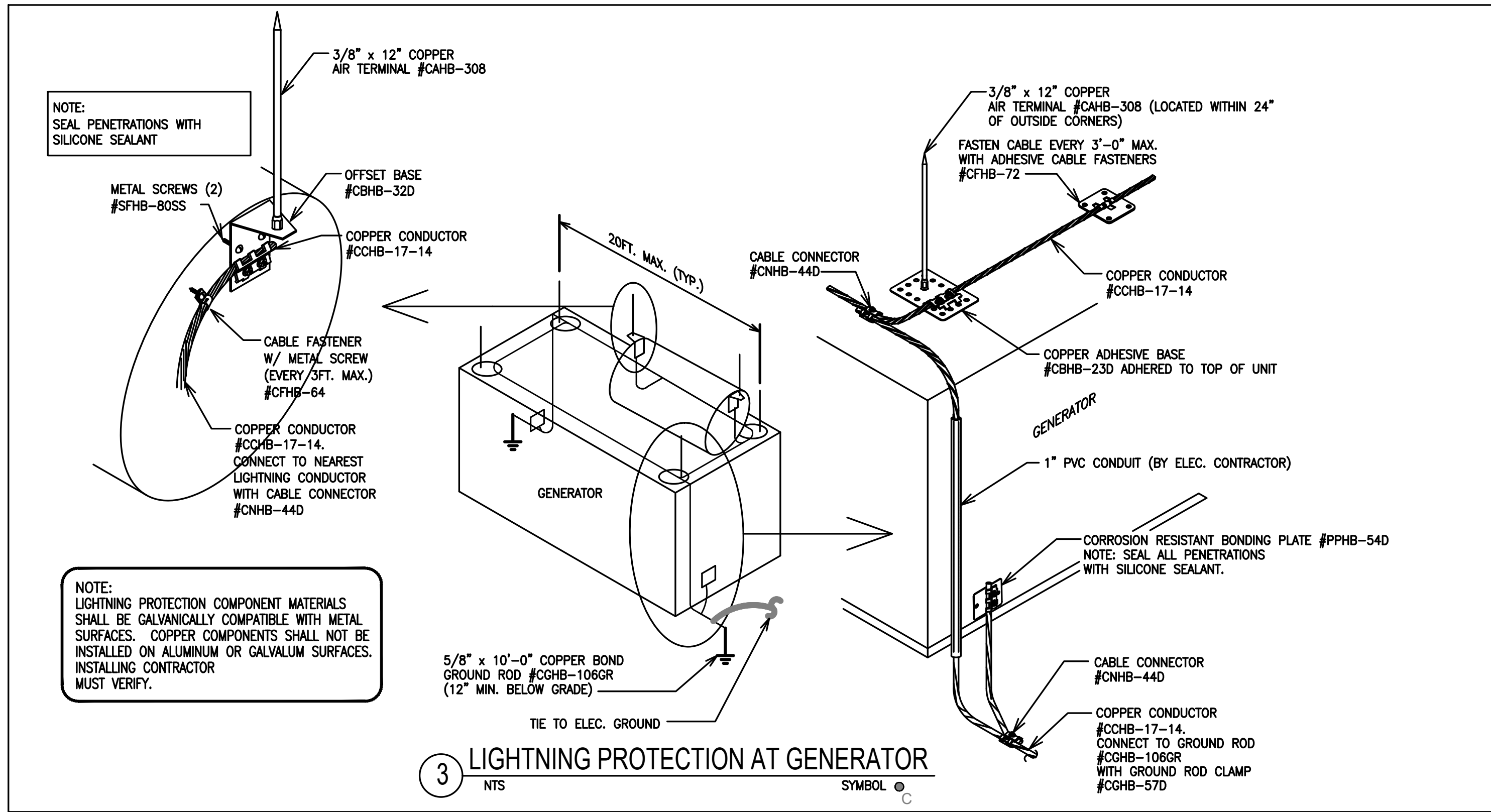
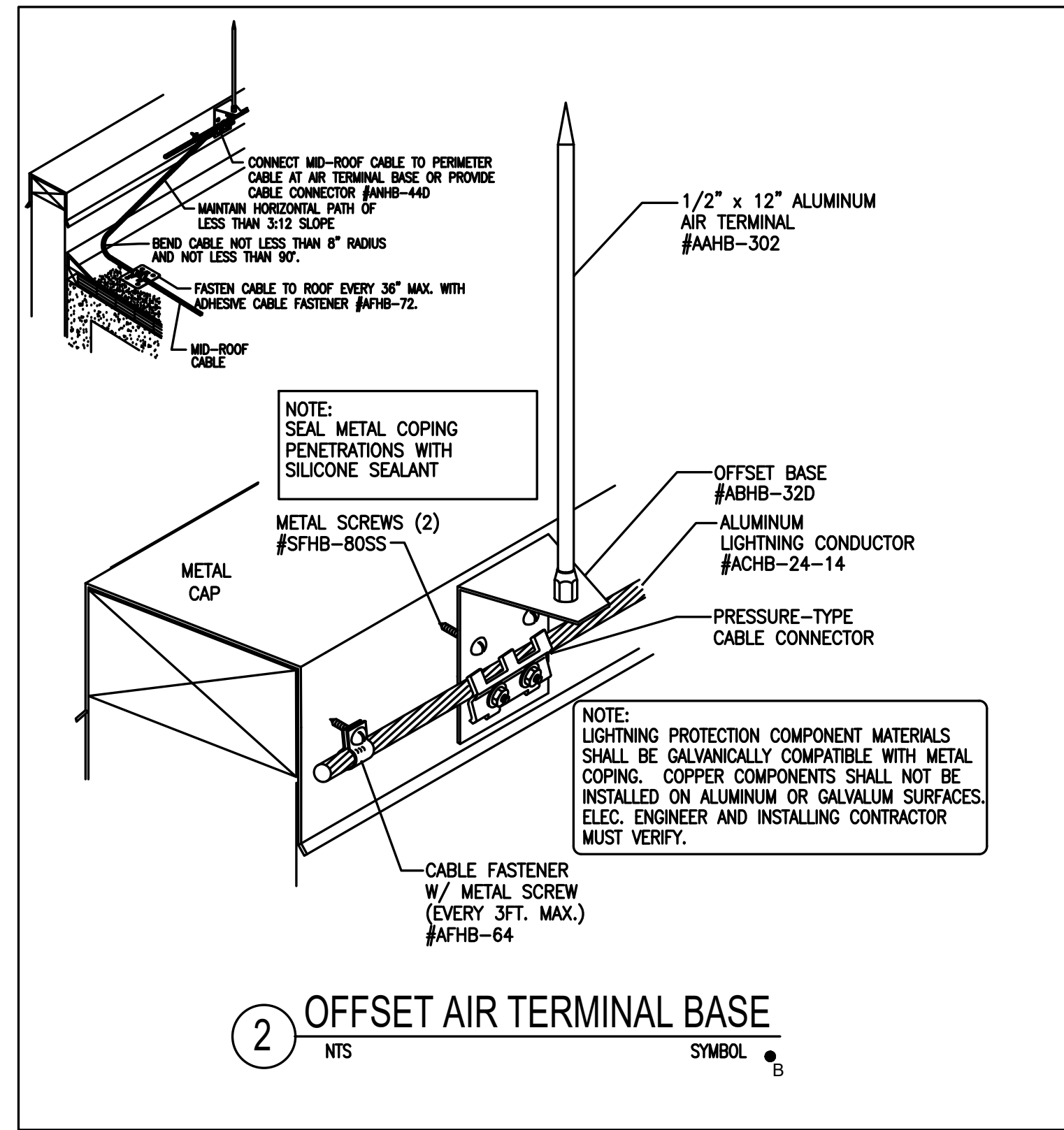
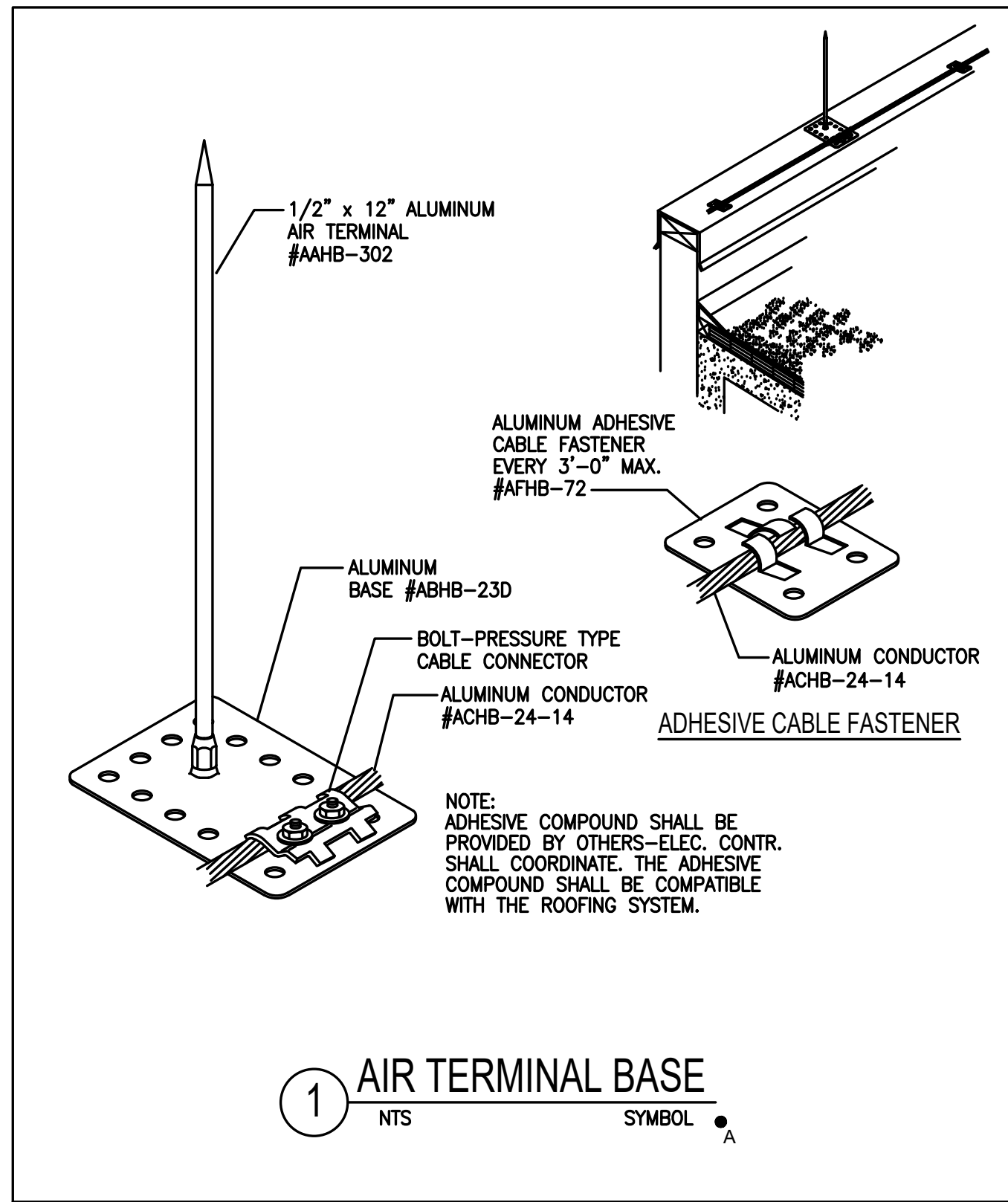
Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI

ELECTRICAL
DETAIL SHEET 2

Scale: NTS

Foot:

E-501

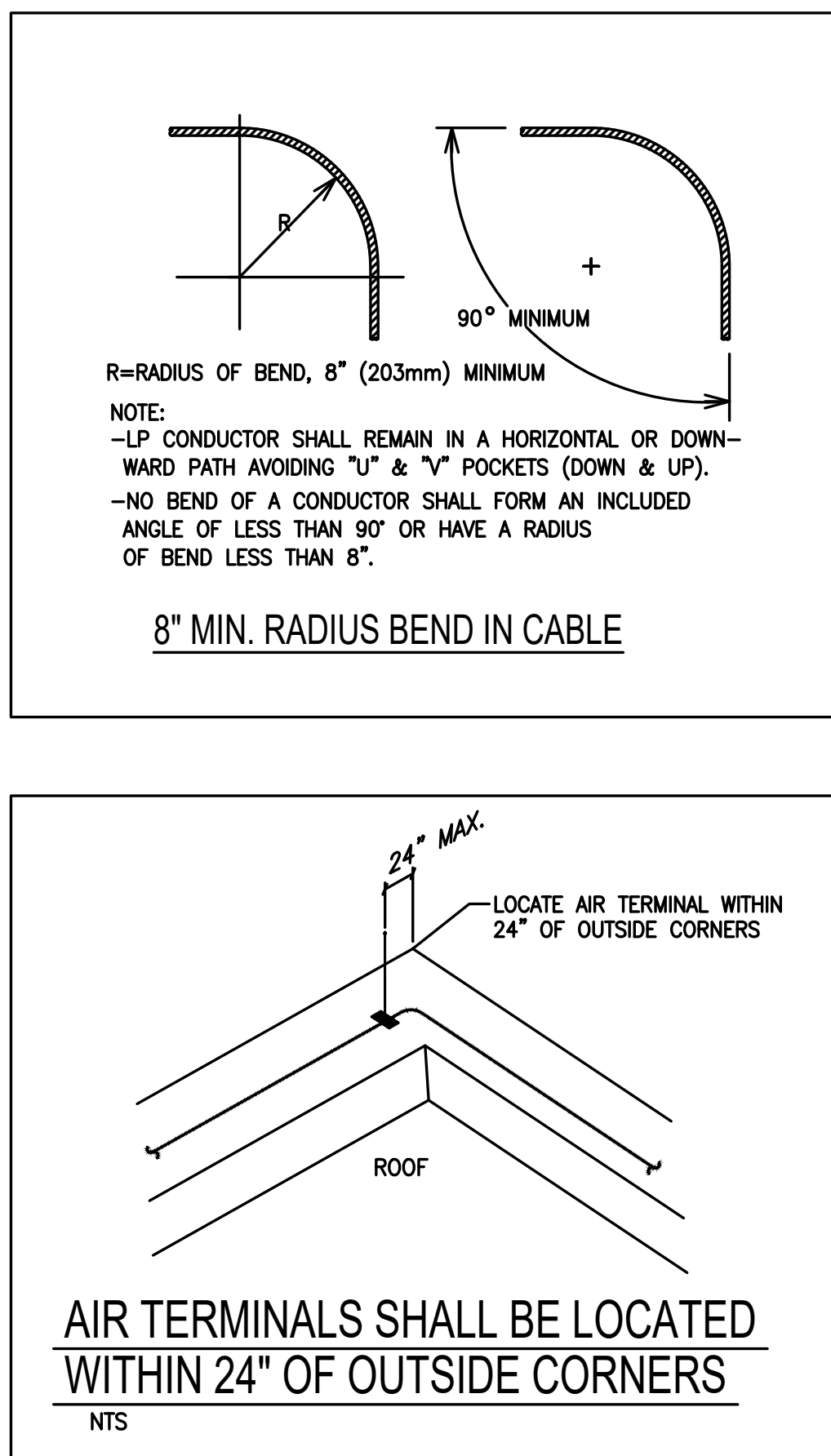
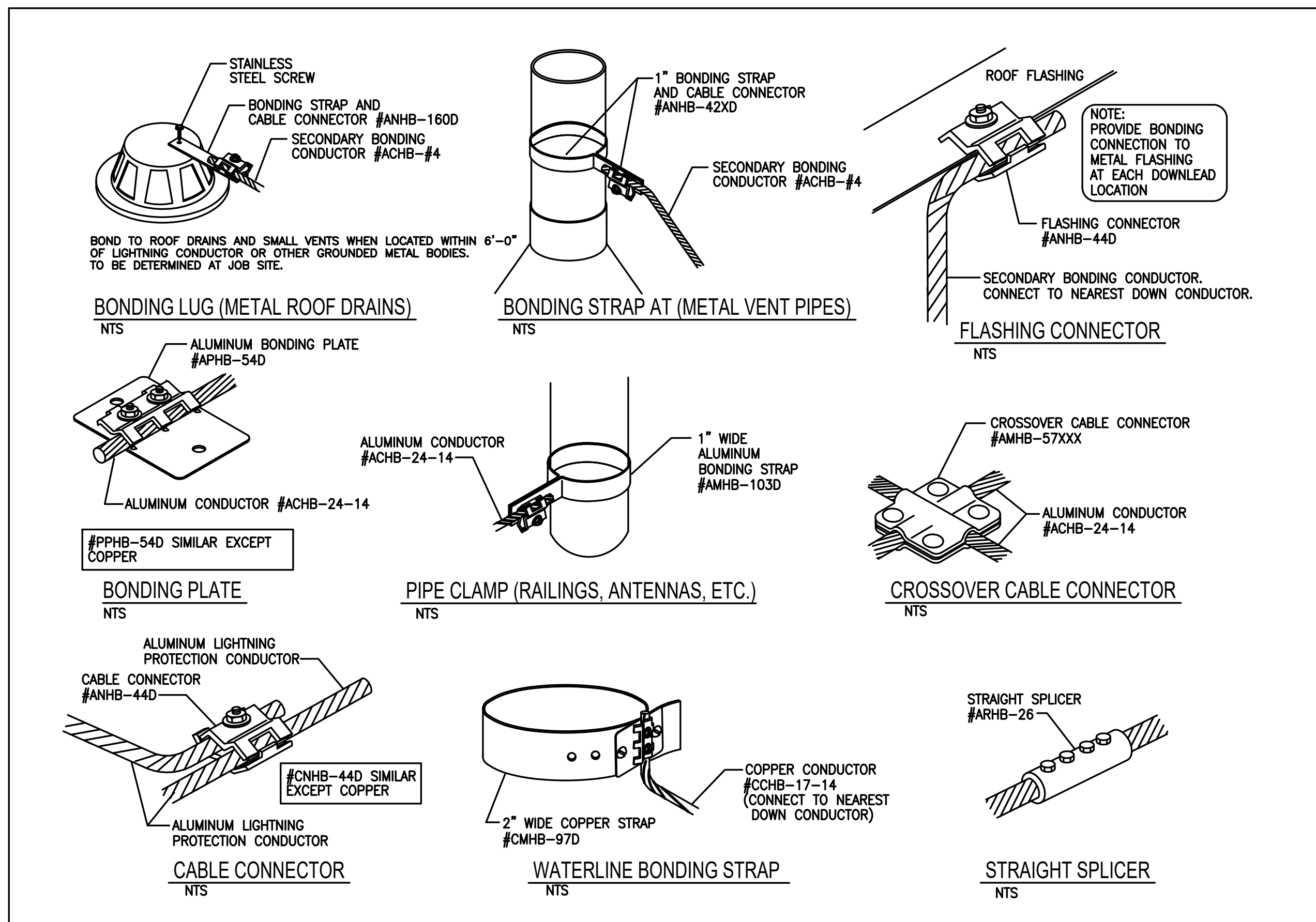


LIGHTNING PROTECTION NOTES

1. ALL MATERIALS SHOWN ARE MANUFACTURED BY HEARY BROS. LIGHTNING PROTECTION CO., INC.
2. THE LIGHTNING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH UL96, UL98A & NFPA-780 LIGHTNING PROTECTION SYSTEM STANDARDS.
3. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" (DOWN AND UP) POCKETS.
4. NO BEND OF CONDUCTOR SHALL FORM AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8".
5. AIR TERMINALS SHALL BE SPACED EVERY 20'-0" MAXIMUM AROUND THE ROOF PERIMETER AND/OR ALONG ROOF RIDGES. AIR TERMINALS SHALL BE LOCATED WITHIN 2'-0" OF OUTSIDE CORNERS.
6. AIR TERMINALS SHALL BE SPACED EVERY 50'-0" MAXIMUM IN CENTER ROOF AREAS.
7. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUND ROD LOCATIONS.
8. BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVALUM SURFACES, AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
9. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED EVERY 3'-0" MAX.
10. BOND SMALL METAL BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUNDING.
11. BOND ALL LARGE METAL BODIES TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM. (E.G. EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, HVAC UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODIES WHOSE HEIGHT EXCEEDS THAT OF ADJACENT AIR TERMINALS).
12. CONNECTIONS TO GROUND RODS SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW FINISHED GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
13. BOND TO WATERLINES (DOMESTIC & FIRE).
14. A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA DISCHARGE UNIT SHALL BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE AND RADIO AND TELEVISION ANTENNA LEAD-IN BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH NFPA-70.
15. TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) OF SERVICES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. (E.G. COMPUTERS, COPIERS, TELEPHONE, ETC.).
16. PROVIDE UL MASTER LABEL CERTIFICATION UPON COMPLETION OF INSTALLATION.

LIGHTNING PROTECTION MATERIALS LIST

ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR	ACHB-24-14
ALUMINUM LIGHTNING PROTECTION SECONDARY BONDING CABLE*	ACHB-#4
COPPER LIGHTNING PROTECTION DOWN CONDUCTOR	CCHB-17-14
BIMETAL CONNECTOR	MNHB-93
CABLE FASTENERS (FASTEN CABLE EVERY 3FT. MAX.)	AFHB-72, 66, 64, CFHB-72, 64
1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE	AHAB-302, ABHB-230
1/2" x 12" ALUMINUM AIR TERMINAL AND OFFSET BASE	AHAB-302, ABHB-320
1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE (AT ROOF TOP EQUIPMENT)	AHAB-302, ABHB-230
3/8" x 12" COPPER AIR TERMINAL & ADHESIVE BASE / OFFSET BASE (GENERATOR)	CABH-308, CBHB-230, 320
THRU-ROOF ROD	SNHB-950
*SECONDARY BONDING (USE SECONDARY BONDING CABLE #ACHB-#4):	
FLASHING CONNECTOR	ANHB-440
METAL ROOF DRAIN / OUTER CONNECTOR	ANHB-1600
METAL VENT PIPE CONNECTOR	ANHB-4200
ALUMINUM BONDING PLATE (AT ALUM. RTU & FANS)	APHB-540
COPPER BONDING PLATE (TO TOP AND BASE OF STEEL AT EACH DOWNLEAD)	PPHB-540
PIPE CLAMP (ANTENNAS, RAILINGS, ETC.)	AMHB-1030
BOND PLATE (LADDERS)	PPHB-540
CABLE CONNECTOR	ANHB-440, CNHB-440
STRAIGHT SPLICER	ARHB-26, CRHB-26
CROSSOVER CABLE CONNECTOR	CMHB-570XX
WATERLINE CONNECTOR (FIRE WATER & DOMESTIC WATER)	CMHB-970
5/8" x 10'-0" COPPERWELD GROUND ROD AND CONNECTOR	CGHB-106GR, CGHB-570



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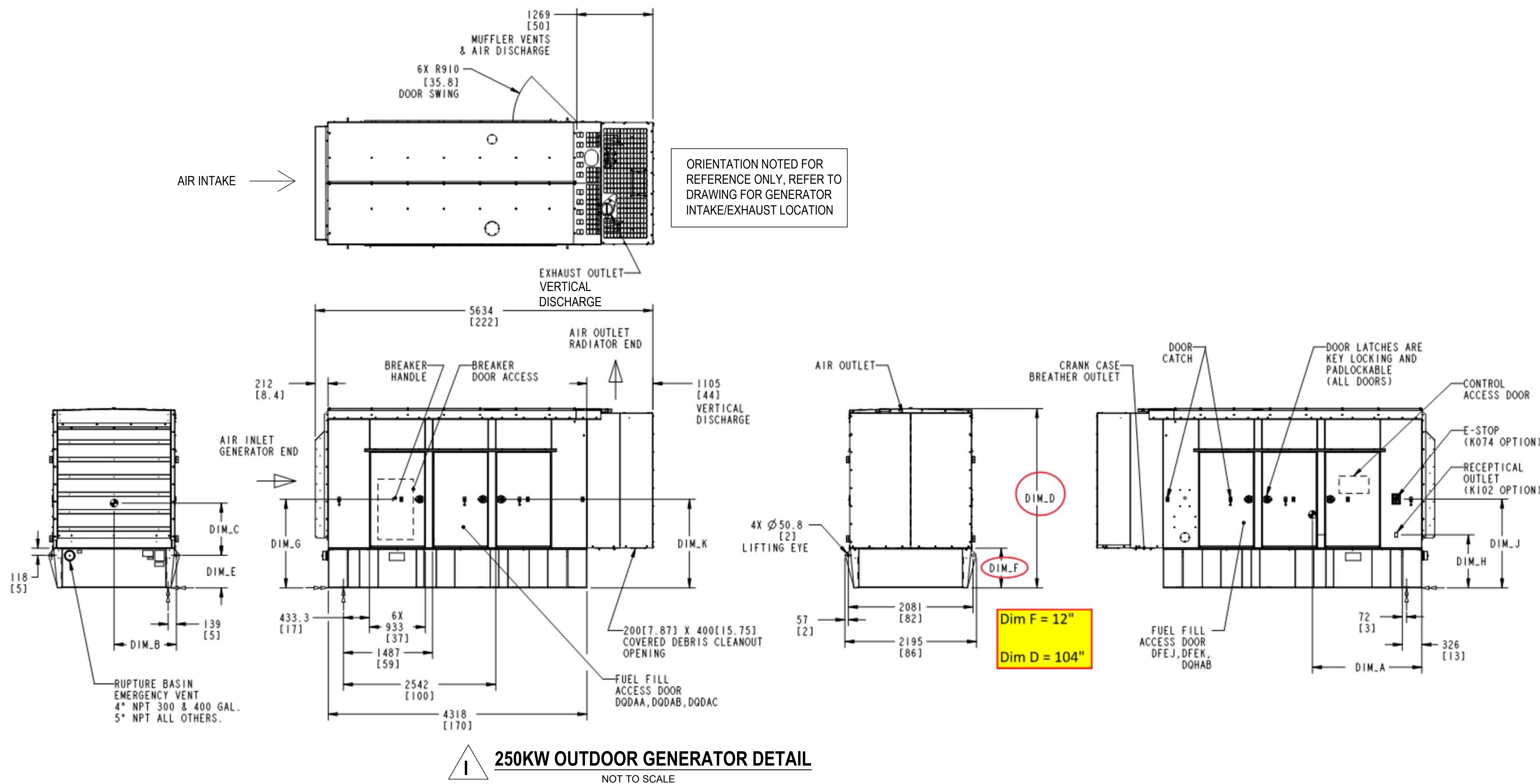
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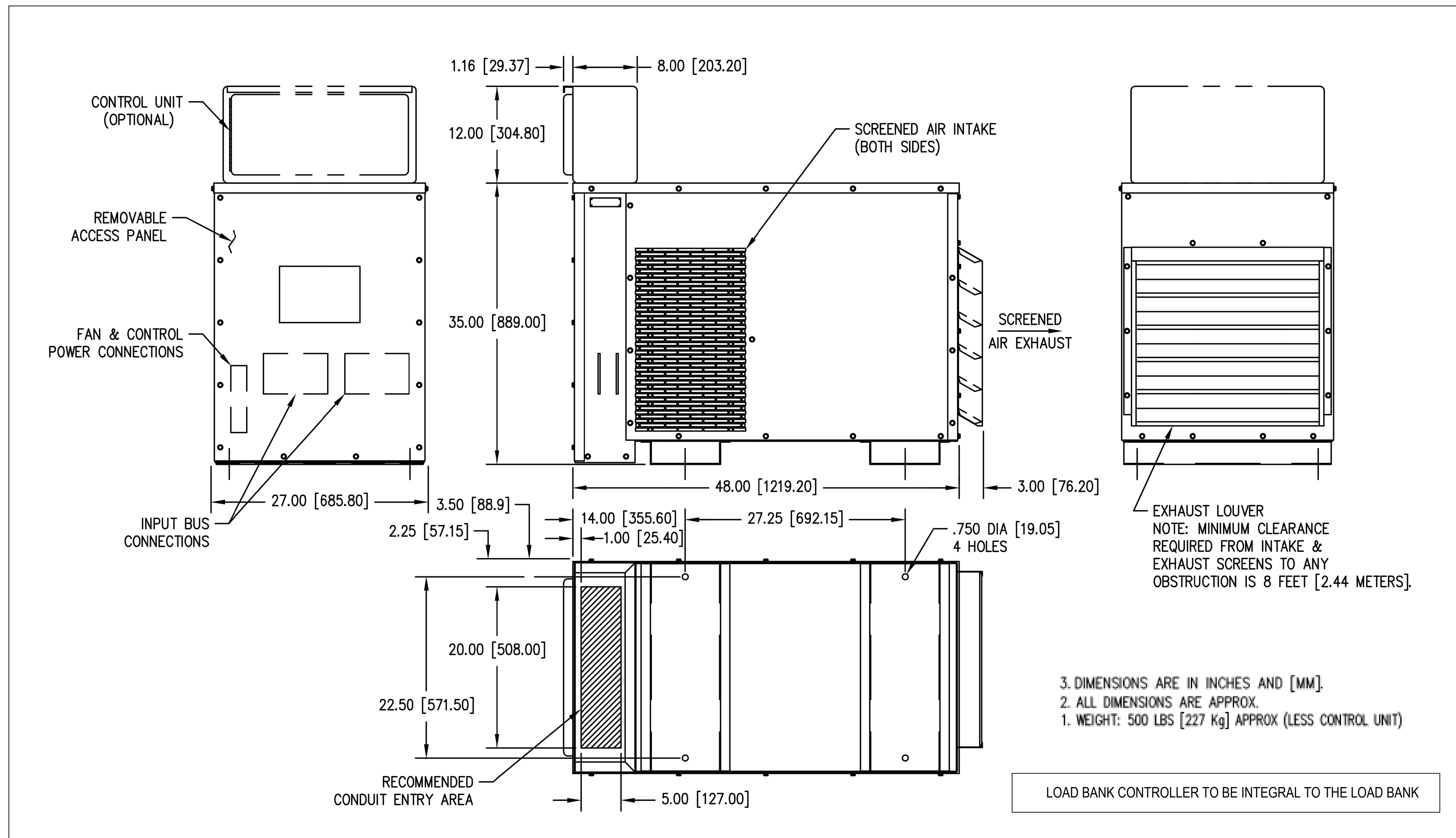
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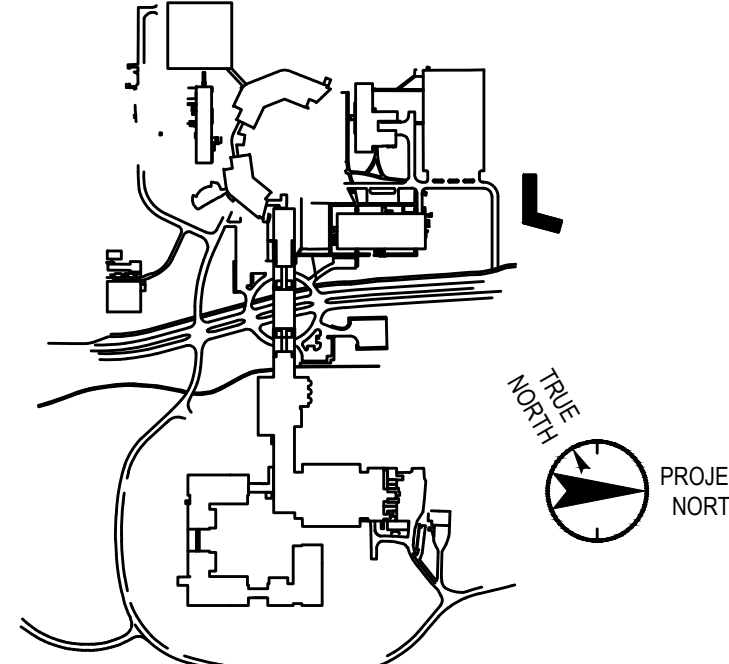
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(212) 479-5444 Fax



- NOTES:
- COORDINATE PLACEMENT OF GENERATOR INTAKE/VERTICAL DISCHARGE WITH DRAWING E-100 PRIOR TO INSTALLATION .
 - MOUNT GENERATOR, LOAD BANK, AND PORTABLE GENERATOR ON CONCRETE PAD, COORDINATE WITH ARCHITECTURAL DRAWINGS/G.C. FOR PAD REQUIREMENTS.
 - ELECTRICAL CONTRACTOR TO COORDINATE THE INSTALLATION OF OWNER FURNISHED PRE PURCHASED ITEMS SUCH AS GENERATOR, LOAD BANK, ATS, AND ROLL UP GENSET CONNECTOR, ELECTRICAL CONTRACTOR TO ACCEPT DELIVERY AND INSTALL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED GENERATOR SHOP DRAWING.



Key Plan



No. Date Description

0	05/20/2022	ISSUED FOR PERMIT
1	06/20/2022	100% CONSTRUCTION DOCUMENTS
2	07/01/2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07/01/2022

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI

ELECTRICAL
DETAIL SHEET 5

Scale: NTS

Floor:

E-504

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Distribution: 899-HP-1-01						
Location: ELECTRICAL 17-1-041			Volts: 480/277 Wye & GRD		A.I.C. Rating: 65kAIC	
Supply From: 899-ATS-1-01			Phases: 3		Maine Type: MCB	
Mounting: Surface			Wires: 4		Maine Rating: 800 A	
Enclosure: Type 1					MCB Rating: 800 A	
Notes:						
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
899-HP-1-0181	PLUMBING RM. 899-EH-1-02 2#12 & 1#12G - 3/4"	3	30 A	20 A	5.00 kVA	
899-HP-1-0182	899-HP-XFMR-04 (899-LP-1-04)	3	200 A	125 A	76.80 kVA	75 KVA XFMR (CLG. MTD.)
899-HP-1-0183	899-HP-XFMR-03 (899-LP-1-02)	3	200 A	125 A	69.76 kVA	75 KVA XFMR (CLG. MTD.)
899-HP-1-0184	899-HP-1-02	3	100 A	60 A	14.82 kVA	LIGHTING PANEL
899-HP-1-0185	899-HP-XFMR-02 (899-LP-1-01)	3	200 A	125 A	60.84 kVA	75 KVA XFMR (CLG. MTD.)
899-HP-1-0186	899-DWH-1-02- 3#6 & 1#10G - 1"	3	60 A	40 A	30.00 kVA	
899-HP-1-0187	899-DWH-1-01- 3#10 & 1#10G - 3/4"	3	30 A	20 A	12.00 kVA	
899-HP-1-0188	899-DOAS-R-01- 3#10 & 1#6G - 2"	3	200 A	125 A	98.89 kVA	
899-HP-1-0189	899-DOAS-R-02- 3#10 & 1#6G - 2"	3	200 A	125 A	98.89 kVA	
899-HP-1-0190	899-EH-1-01- 3#10 & 1#10G - 3/4"	3	30 A	20 A	5.00 kVA	
899-HP-1-0191	899-CUR-01- 3#10 & 1#10G - 3/4"	3	30 A	25 A	17.53 kVA	
899-HP-1-0192	899-CUR-02- 3#10 & 1#10G - 3/4"	3	30 A	25 A	17.53 kVA	
899-HP-1-0193	899-CUR-03- 3#10 & 1#10G - 3/4"	3	30 A	25 A	17.53 kVA	
899-HP-1-0194	899-CUR-04- 3#10 & 1#10G - 3/4"	3	30 A	25 A	17.53 kVA	
899-HP-1-0195	899-CUR-05- 3#10 & 1#10G - 3/4"	3	30 A	25 A	17.53 kVA	
899-HP-1-0196	Spares	3	100 A	0.00 kVA		(100AMP FRAME)
899-HP-1-0197	Spares (FOR FUTURE SOLAR PANEL)	3	--	250 A	0.00 kVA	(400AMP FRAME)
899-HP-1-0198						
Total Conn. Load:					559.86 kVA	
Total Amps:					673 A	
Legend:						
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals		
HVAC	141.57 kVA	75.00%	106.18 kVA	<div>Total Conn. Load: 559.86 kVA</div> <div>Total Est. Demand: 493.87 kVA</div> <div>Total Conn. Current: 673 A</div> <div>Total Est. Demand Current: 594 A</div>		
Heating	287.23 kVA	100.00%	287.23 kVA			
Kitchen Equipment - Non-Dwelling Unit	8.70 kVA	65.00%	5.66 kVA			
Lighting	14.70 kVA	100.00%	14.70 kVA			
Other	59.85 kVA	85.00%	50.87 kVA			
Power	0.36 kVA	100.00%	0.36 kVA			
Receptacle	47.14 kVA	60.61%	28.57 kVA			
Spares	0.32 kVA	100.00%	0.32 kVA			

PANEL 899-HP-1-01 NOTES:
1. FOR ADDITIONAL FEEDER SIZE, REFER TO POWER RISER DIAGRAM IN DRAWING E-700

Branch Panel: 899-LP-1-02										
Location: ELEC CLOSET 17-1-013				Volts: 120/208 Wye & GRD				A.I.C. Rating: 22kAIC		
Supply From: 899-HP-XFMR-03				Phases: 3				Maine Type: M.C.B		
Mounting: Surface				Wires: 4				Maine Rating: 225 A		
Enclosure: Type 1								MCB Rating: 225 A		
Notes:										
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
899-LP-1-0281	ELEC CLOSET GUTTER KING CP (GFCI BRK.)	20 A	1	0.20 kVA	0.19 kVA				899-BSB-1-03, 04, AND 05 UNITS 2#12 & 1#12G - 3/4"	899-LP-1-0282
899-LP-1-0283	MAIN ENTRY EXTERIOR LIGHTING	20 A	1		0.50 kVA	0.19 kVA		2	15 A	899-LP-1-0284
899-LP-1-0285	LP3 FIXTURES LOBBY/CONF. RM. LIGHTING	20 A	1			0.50 kVA	0.25 kVA		PLUMBING CIRC PUMP 2#12 & 1#12G - 3/4"	899-LP-1-0286
899-LP-1-0287	899-AC-1-05C, 05D, 05E, AND 05F UNITS 2#10 & 1#10G - 3/4"	20 A	2	0.49 kVA	0.25 kVA			2	20 A	899-LP-1-0288
899-LP-1-0289				0.49 kVA	0.50 kVA					899-LP-1-02910
899-LP-1-02911	GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"	30 A	2			0.50 kVA	0.50 kVA		2	30 A
899-LP-1-02913				0.50 kVA	1.32 kVA				GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"	899-LP-1-02912
899-LP-1-02915	899-AC-04E, 04F, 05A, AND 05B UNITS 2#10 & 1#10G - 3/4"	20 A	2		0.64 kVA	1.32 kVA		2	20 A	899-LP-1-02914
899-LP-1-02917						0.64 kVA	0.86 kVA		HEAT MAT KREP 2 - 2#10 & 1#10G - 3/4" (GFCI BREAKER)	899-LP-1-02916
899-LP-1-02919				8.36 kVA	0.86 kVA			2	20 A	899-LP-1-02918
899-LP-1-02921	899-LP-1-02A	100 A	3		7.22 kVA	1.94 kVA		2	30 A	899-LP-1-02920
899-LP-1-02923						7.18 kVA	1.94 kVA		HEAT MAT KREP 1 - 2#8 & 1#10G - 3/4" (GFCI BREAKER) - ADD ALT.	899-LP-1-02922
899-LP-1-02925								3	30 A	899-LP-1-02924
899-LP-1-02925	HEAT TRACING - ITEM A8 (GFCI BRK.)	20 A	1	0.40 kVA	2.11 kVA				899-LP-1-02926	899-LP-1-02928
899-LP-1-02927	STORAGE TRAP PRIMERS ITEM B3	30 A	1		0.60 kVA	2.09 kVA		3	50 A	899-LP-1-02928
899-LP-1-02929	HEAT MAT STAFF LOUNGE 2#12 & 1#12G - 3/4" (GFCI BRK.)	20 A	2	1.19 kVA	0.40 kVA		1.19 kVA	2.50 kVA		899-LP-1-02930
899-LP-1-02931				1.19 kVA	0.40 kVA				1	20 A
899-LP-1-02933	Spare	20 A	1		0.00 kVA	1.32 kVA			HEAT TRACING - ITEM A8 (GFCI BRK.)	899-LP-1-02932
899-LP-1-02935	PRESCHOOL/KREP PLAYGROUND HEAT TRACING - ITEM A8 (GFCI BRK.)	20 A	1			0.40 kVA	1.32 kVA		2	20 A
899-LP-1-02937	HEAT MAT KREP 2 - 2#12 & 1#12G - 3/4" (GFCI BREAKER)	20 A	2	1.32 kVA	1.94 kVA				HEAT MAT PRESCHOOL 1 - 2#12 & 1#12G - 3/4" (GFCI BRK.)	899-LP-1-02936
899-LP-1-02939					1.32 kVA	1.94 kVA		2	30 A	899-LP-1-02938
899-LP-1-02941	HEAT MAT PRESCHOOL 2 - 2#12 & 1#12G - 3/4" (GFCI BRK.)	20 A	2	1.32 kVA	1.94 kVA		1.32 kVA	1.94 kVA	HEAT MAT PRESCHOOL 2 - 2#10 & 1#10G - 3/4" (GFCI BRK.) - ADD ALT.	899-LP-1-02940
899-LP-1-02943				1.32 kVA	1.94 kVA				HEAT MAT PRESCHOOL 1 - 2#10 & 1#10G - 3/4" (GFCI BRK.) - ADD ALT.	899-LP-1-02942
899-LP-1-02945	HEAT MAT PRESCHOOL 2#10 & 1#10G - 3/4" (GFCI BRK.) - ADD ALT.	30 A	2		1.94 kVA	0.50 kVA		2	20 A	899-LP-1-02944
899-LP-1-02947						1.94 kVA	0.50 kVA		GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"	899-LP-1-02946
899-LP-1-02949		20 A	1	0.00 kVA	0.50 kVA			2	20 A	899-LP-1-02948
899-LP-1-02951	Spare	20 A	1		0.00 kVA	0.50 kVA			GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"	899-LP-1-02950
899-LP-1-02953	Spare	20 A	1		0.00 kVA	0.00 kVA		1	20 A	899-LP-1-02952
899-LP-1-02955	Spare	20 A	1	0.00 kVA	0.00 kVA			1	20 A	899-LP-1-02956
899-LP-1-02957	Spare	20 A	1		0.00 kVA	0.00 kVA		1	20 A	899-LP-1-02958
899-LP-1-02959	Spare	20 A	1			0.00 kVA	0.00 kVA	1	20 A	899-LP-1-02960
899-LP-1-02961	Spare	20 A	1	0.00 kVA	0.00 kVA			1	20 A	899-LP-1-02962
899-LP-1-02963	Spare	20 A	1		0.00 kVA	0.00 kVA		1	20 A	899-LP-1-02964
899-LP-1-02965	Spare	20 A	1		0.00 kVA	0.00 kVA		2	20 A	899-LP-1-02966
Total Load:				23.28 kVA	23.01 kVA	23.48 kVA				
Total Amps:				194 A	192 A	196 A				
Legend:										
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals						
HVAC	4.35 kVA	75.00%	3.26 kVA							
Heating	33.65 kVA	100.00%	33.65 kVA	Total Conn. Load: 69.76 kVA						
Kitchen Equipment - Non-Dwelling Unit	3.00 kVA	80.00%	2.40 kVA	Total Est. Demand: 62.38 kVA						
Lighting	1.00 kVA	100.00%	1.00 kVA	Total Conn. Current: 198 A						
Other	8.58 kVA	85.00%	7.29 kVA	Total Est. Demand Current: 173 A						
Power	0.36 kVA	100.00%	0.36 kVA							
Receptacle	18.82 kVA	76.57%	14.41 kVA							

Branch Panel: 899-HP-1-02											
Location: ELEC CLOSET 17-1-013				Volts: 480/277 Wye & GRD				A.I.C. Rating: 65kAIC			
Supply From: 899-HP-1-01				Phases: 3				Maine Type: M.C.B			
Mounting: Surface				Wires: 4				Maine Rating: 100 A			
Enclosure: Type 1								MCB Rating: 60 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
899-HP-1-0281	PARKING AREA/ENTRY SITE LIGHTING 2#6 & 1#6G -1" C	20 A	1	1.29 kVA	0.81 kVA			1	20 A	PARKING AREA/EGN. SITE LIGHTING 2#6 & 1#6G -1" C	899-HP-1-0282
899-HP-1-0283	Spares	20 A	1		0.00 kVA	0.55 kVA		1	20 A	BLDG. EXT. ENTRY/INFANT/TODDLER PLAYGRND. LITG. 2#10 &...	899-HP-1-0284
899-HP-1-0285	PRESCHOOL 1/2 CLASSROOM/RESTRM. LTG.	20 A	1			1.28 kVA	1.28 kVA	1	20 A	KREP 1/2 CLASSROOM/RESTRM. LTG.	899-HP-1-0286
899-HP-1-0287	INFANT 1-4 CLASSROOM/CHANGING STATION LTG.	20 A	1	1.51 kVA	0.41 kVA			1	20 A	KREP/PRESCHOOL CORRIDOR LIGHTING	899-HP-1-0288
899-HP-1-0289	TODDLER 1 - 4 CLASSROOM/CHANGING STATION LTG.	20 A	1		1.61 kVA	1.86 kVA		1	20 A	STF. LOUNGE/ INNOVATION/OFFICE/ LOBBY/ CONF / STUDIOS/MGMT...	899-HP-1-02910
899-HP-1-02911	INFANT/TODDLER CLASSROOMS CORRIDOR LIGHTING	20 A	1			0.52 kVA	0.00 kVA	1	20 A	Spares	899-HP-1-02912
899-HP-1-02913	ROOF MEP AREA LIGHTING	20 A	1	0.08 kVA	0.50 kVA			1	20 A	ELEC CLOSET - 899-TF-1-01	899-HP-1-02914
899-HP-1-02915	ELEC/ WARMING STORAGE/ STORAGE LIGHTING	20 A	1		0.98 kVA	0.22 kVA		1	20 A	EXIT LIGHTS	899-HP-1-02916
899-HP-1-02917	LOBBY/RECEPTION CORRIDOR/COPY/WORK LIGHTING	20 A	1			0.88 kVA	0.22 kVA	1	20 A	EXIT LIGHTS	899-HP-1-02918
899-HP-1-02919	BLDG. EXT. PARKING/KREP/PRESCH...	20 A	1	0.46 kVA	0.00 kVA			1	20 A	Spares	899-HP-1-02920
899-HP-1-02921	Spares	20 A	1		0.00 kVA	0.00 kVA		1	20 A	Spares	899-HP-1-02922
899-HP-1-02923	TELE/ATA 899-TF-1-02	20 A	1			0.50 kVA	0.00 kVA	1	20 A	Spares	899-HP-1-02924
				Total Load:	5.07 kVA	5.20 kVA	4.65 kVA				
				Total Amps:	19 A	19 A	17 A				
Legend:											
Load Classification				Connected Load	Demand Factor	Estimated Demand		Panel Totals			
Light				13.70 kVA	100.00%	13.70 kVA		Total Conn. Load: 14.92 kVA			
Other				1.00 kVA	85.00%	0.85 kVA		Total Conn. Current: 14.92 kVA			
Spares				0.22 kVA	100.00%	0.22 kVA		Total Est. Demand: 14.77 kVA			
								Total Conn. Current: 16 A			
								Total Est. Demand Current: 16 A			

Branch Panel: 899-LP-1-04											
Location: ELECTRICAL 17-1-041 Supply From: 899-HP-XFMR-04 Mounting: Surface Enclosure: Type 1						Volts: 120/208 Wye & GRD Phases: 3 Wires: 4			A.I.C. Rating: 22kAIC Maine Type: M.C.B Mains Rating: 225 A MCB Rating: 225 A		
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
899-LP-1-04#1	BLDG EXTERIOR PARKING SECURITY/ACCESS DEVICE (ITEM...	20 A	1	0.18 kVA	0.54 kVA			1	20 A LOBBY/RECEPTION RECEPTACLES	899-LP-1-04#2	
899-LP-1-04#3	BLDG EXTERIOR NEAR SIGNAGE SECURITY/ACCESS DEVICE (ITEM...	20 A	1		0.18 kVA 0.54 kVA			1	20 A EXTERIOR RECEPTACLES	899-LP-1-04#4	
899-LP-1-04#5	VESTIBULE SECURITY/ACCESS DEVICE (ITEM A0)	20 A	1			0.40 kVA 0.60 kVA		1	20 A DRINKING FOUNTAIN RECEPTACLE	899-LP-1-04#6	
899-LP-1-04#7	DRINKING FOUNTAIN RECEPTACLE	20 A	1	0.60 kVA 0.72 kVA				1	20 A TODDLER CLASSROOM CHANGING STATION RECEPTACLES	899-LP-1-04#8	
899-LP-1-04#9	INFANT 1/2 CLASSROOM RECEPTACLES	20 A	1		1.44 kVA 0.20 kVA			1	20 A INFANT PLAYGROUND SECURITY/ACCESS DEVICE (ITEM...	899-LP-1-04#10	
899-LP-1-04#11	INFANT 2 CLASSROOM RECEPTACLES	20 A	1			1.26 kVA 0.20 kVA		1	20 A EV CHARGING/WARMING KITCHEN AREA SEC./ACCESS DEVICE (ITEM...	899-LP-1-04#12	
899-LP-1-04#19	WELLNESS APPLIANCE (ITEM B2)	20 A	1	1.20 kVA 1.26 kVA				1	20 A INFANT 1 CLASSROOM RECEPTACLES	899-LP-1-04#14	
899-LP-1-04#15	HEALTH AND SAFETY DIRECTOR OFFICE RECEPTACLES	20 A	1		0.36 kVA 0.54 kVA			1	20 A TOILET RECEPTACLES	899-LP-1-04#16	
899-LP-1-04#17	WARMING KITCHEN RECEPTACLES	20 A	1			0.36 kVA 2.00 kVA				899-LP-1-04#18	
899-LP-1-04#19	LAUNDRY DRYER RECEPTACLE 4#6 & 1#10G - 1°C	50 A	2	2.00 kVA 2.00 kVA				2	50 A LAUNDRY DRYER RECEPTACLE 4#6 & 1#10G - 1°C	899-LP-1-04#20	
					2.00 kVA 12.45 kVA					899-LP-1-04#22	
899-LP-1-04#23	WARMING KITCHEN RECEPTACLES	20 A	1			0.54 kVA 12.45 kVA		3	125 A 899-LP-1-04A	899-LP-1-04#24	
899-LP-1-04#25	SECURITY/ACCESS DEVICE (ITEM A0)	20 A	1	0.20 kVA 8.30 kVA						899-LP-1-04#26	
899-LP-1-04#27	LAUNDRY WASHER RECEPTACLE	20 A	1		0.60 kVA 0.60 kVA			1	20 A WARMING PANTRY APPLIANCE	899-LP-1-04#28	
899-LP-1-04#29	LAUNDRY WASHER RECEPTACLE	20 A	1			0.60 kVA 0.60 kVA		1	20 A LAUNDRY WASHER RECEPTACLE	899-LP-1-04#30	
899-LP-1-04#31	HEALTH AND SAFETY DIRECTOR OFFICE RECEPTACLES	20 A	1	0.36 kVA 0.54 kVA				1	20 A MEPS/STORAGE RECEPTACLES	899-LP-1-04#32	
899-LP-1-04#33	WARMING KITCHEN/WATER HEATER RECEPTACLES	20 A	1		0.72 kVA 1.08 kVA			1	20 A INFANT/TODDLER CLASSROOMS CORRIDOR RECEPTACLES	899-LP-1-04#34	
899-LP-1-04#35	WELLNESS RECEPTACLES	20 A	1			0.72 kVA 1.08 kVA		1	20 A MOVEMENT MATTERS RECEPTACLES	899-LP-1-04#36	
899-LP-1-04#37	LAUNDRY WASHER RECEPTACLE	20 A	1	0.60 kVA 0.60 kVA				1	20 A WARMING PANTRY APPLIANCE	899-LP-1-04#38	
899-LP-1-04#39	TODDLER 3 CLASSROOM RECEPTACLES	20 A	1		1.26 kVA 1.26 kVA			1	20 A INFANT 4 CLASSROOM RECEPTACLES	899-LP-1-04#40	
899-LP-1-04#41	TODDLER 4 CLASSROOM RECEPTACLES	20 A	1			1.26 kVA 1.26 kVA		1	20 A TODDLER 1 CLASSROOM RECEPTACLES	899-LP-1-04#42	
899-LP-1-04#43	LOBBY/RECEPTION DESK RECEPTACLE	20 A	1	0.72 kVA 1.08 kVA				1	20 A INFANT CLASSROOM CHANGING STATION RECEPTACLES	899-LP-1-04#44	
899-LP-1-04#45	TODDLER 1/2 CLASSROOM RECEPTACLES	20 A	1		1.44 kVA 0.00 kVA			1	20 A ASCO 920 RELAY '899-RC-01'	899-LP-1-04#46	
899-LP-1-04#47	TODDLER 3/4 CLASSROOM RECEPTACLES	20 A	1			1.44 kVA 0.10 kVA		1	20 A A/CI ATS AND GEN MONITORING PANEL	899-LP-1-04#48	
899-LP-1-04#49	TODDLER 2 CLASSROOM RECEPTACLES	20 A	1	1.26 kVA 1.26 kVA				1	20 A INFANT 3 CLASSROOM RECEPTACLES	899-LP-1-04#50	
899-LP-1-04#51	WATER HEATER RM. TRAP PRIMERS ITEM B3'	20 A	1		0.30 kVA 0.17 kVA					899-LP-1-04#52	
899-LP-1-04#53	WARMING KITCHEN ITEM A9 - WATER COOLER	20 A	1			0.60 kVA 0.17 kVA		3	40 A WARMING KITCHEN KITCHEN APPLIANCE A9 4#6 & 1#10G - 3/4°C	899-LP-1-04#54	
899-LP-1-04#55	INFANT 3/4 CLASSROOM RECEPTACLES	20 A	1	1.44 kVA 0.17 kVA						899-LP-1-04#56	
899-LP-1-04#57		20 A	1		0.17 kVA 0.17 kVA					899-LP-1-04#58	
899-LP-1-04#59	LAUNDRY KITCHEN APPLIANCE A5 4#6 & 1#10G - 3/4°C	40 A	3	0.17 kVA 0.17 kVA				3	40 A STAFF LOUNGE KITCHEN APPLIANCE A5 4#6 & 1#10G - 3/4°C	899-LP-1-04#60	
899-LP-1-04#61		20 A	1	0.17 kVA 0.17 kVA						899-LP-1-04#62	
899-LP-1-04#63	Spare	20 A	1		0.00 kVA 0.00 kVA			1	20 A Spare	899-LP-1-04#64	
899-LP-1-04#65	Spare	20 A	1			0.00 kVA 0.00 kVA		1	20 A Spare	899-LP-1-04#66	
899-LP-1-04#67	Spare	20 A	1	0.00 kVA 0.00 kVA				1	20 A Spare	899-LP-1-04#68	
899-LP-1-04#69	Spare	20 A	1		0.00 kVA 0.00 kVA			1	20 A Spare	899-LP-1-04#70	
899-LP-1-04#71	Spare	20 A	1			0.00 kVA 0.00 kVA		1	20 A Spare	899-LP-1-04#72	
899-LP-1-04#73	Spare	20 A	1	0.00 kVA 0.00 kVA				1	20 A Spare	899-LP-1-04#74	
899-LP-1-04#75	Spare	20 A	1		0.00 kVA 0.00 kVA			1	20 A Spare	899-LP-1-04#76	
899-LP-1-04#77	Spare	20 A	1			0.00 kVA 0.00 kVA		1	20 A Spare	899-LP-1-04#78	
899-LP-1-04#79	Spare	20 A	1	0.00 kVA 0.00 kVA				1	20 A Spare	899-LP-1-04#80	
899-LP-1-04#81	Spare	20 A	1		0.00 kVA 0.00 kVA			1	20 A Spare	899-LP-1-04#82	
899-LP-1-04#83	Spare	20 A	1			0.00 kVA 0.00 kVA		1	20 A Spare	899-LP-1-04#84	
Total Load:				25.36 kVA	25.47 kVA	25.97 kVA					
Total Amps:				211 A	212 A	217 A					
Legend:											
Load Classification											
Connected Load				Demand Factor				Estimated Demand			
Kitchen Equipment - Non-Dwelling Unit				65.00%				3.71 kVA			
Other				85.00%				36.43 kVA			
Receptacle				67.77%				19.07 kVA			
Spare				100.00%				0.10 kVA			
Total Conn. Load:				Total Est. Demand:				59.31 kVA			
Total Conn. Current:				Total Est. Demand Current:				213 A			

PANEL SCHEDULE NOTES:

- ALL WIRING SHALL BE 2#12 & 1#12G - 3/4°C UNLESS OTHERWISE NOTED.
- ALL RUNS OF 75 FEET SHALL BE #10 AWG.
- ENERGY METERS NOTED ON E-700 MAYBE INTEGRATED UNTO THE PANELBOARD IN LIEU OF PROVIDING A SEPARATE WALL MOUNTED UNIT.

Branch Panel: 899-LP-1-05											
Location: TELE/ATA 17-1-027 Supply From: 899-LP-1-02 Mounting: Surface Enclosure: Type 1						Volts: 120/208 Wye & GRD Phases: 3 Wires: 4			A.I.C. Rating: 22kAIC Maine Type: M.C.B Mains Rating: 100 A MCB Rating: 50 A		
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
899-LP-1-05#1	TELE/ATA BMS PANEL (LOCKABLE TYP. BRK. SEE...	20 A	1	0.18 kVA 0.18 kVA				1	20 A TELE/ATA SECURITY PANEL (LOCKABLE TYP. BRK.)	899-LP-1-05#2	
899-LP-1-05#3	TELE/ATA SECURITY PANEL (LOCKABLE TYP. BRK. SEE...	20 A	1		0.18 kVA 1.16 kVA			1	20 A TELE/ATA RECEPTACLES	899-LP-1-05#4	
899-LP-1-05#5	TELE/ATA RECEPTACLES	20 A	1			1.00 kVA 0.75 kVA				899-LP-1-05#6	
899-LP-1-05#7	TELE/ATA IT RECEPTACLE L5-20R	20 A	1	1.00 kVA 0.75 kVA				2	30 A TELE/ATA L6-30R IT RECEPTACLE 2#10 & 1#10G - 3/4°C (UPS UNIT)	899-LP-1-05#8	
899-LP-1-05#9	TELE/ATA L6-30R IT RECEPTACLE 2#10 & 1#10G - 3/4°C (UPS UNIT)	30 A	2		0.75 kVA 0.00 kVA			1	20 A Spare	899-LP-1-05#10	
899-LP-1-05#11		30 A	2			0.75 kVA 0.00 kVA		1	20 A Spare	899-LP-1-05#12	
899-LP-1-05#13	Spare	20 A	1	0.00 kVA 0.00 kVA				1	20 A Spare	899-LP-1-05#14	
899-LP-1-05#15	Spare	20 A	1		0.00 kVA 0.00 kVA			1	20 A Spare	899-LP-1-05#16	
899-LP-1-05#17	Spare	--	--			0.00 kVA 0.00 kVA		--	--	899-LP-1-05#18	
899-LP-1-05#19	Spare	--	--	0.00 kVA 0.00 kVA				--	--	899-LP-1-05#20	
899-LP-1-05#21	Spare	--	--		0.00 kVA 0.00 kVA			--	--	899-LP-1-05#22	
899-LP-1-05#23	Spare	--	--			0.00 kVA 0.00 kVA		--	--	899-LP-1-05#24	
Total Load:				2.11 kVA	2.09 kVA	2.50 kVA					
Total Amps:				18 A	17 A	21 A					
Legend:											
Load Classification				Connected Load				Panel Totals			
Other				6.34 kVA				85.00%			
Receptacle				0.36 kVA				5.39 kVA			
								100.00%			
								0.36 kVA			
								Total Conn. Load: 6.70 kVA			
								Total Est. Demand: 5.75 kVA			
								Total Conn. Current: 19 A			
								Total Est. Demand Current: 16 A			

PANEL 899-LP-1-05 NOTES:

- PROVIDE LOCKABLE TYPE CIRCUIT BREAKER.

Branch Panel: 899-LP-1-04A

Location: ELECTRICAL 17-1-041
Supply From: 899-LP-1-04
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye & GRD
Phases: 3
Wires: 4

A.I.C. Rating: 22kAIC
Maine Type: M.C.B
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
899-LP-1-04A#1	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2	4.15 kVA	4.15 kVA	4.15 kVA	4.15 kVA			2	50 A	EV CAR CHARGERS (SEE NOTE 1) **	899-LP-1-1-04A#2
899-LP-1-04A#3													899-LP-1-1-04A#4
899-LP-1-04A#5	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2					4.15 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-1-04A#6
899-LP-1-04A#7				4.15 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-1-04A#8
899-LP-1-04A#9	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2			4.15 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-1-04A#10
899-LP-1-04A#11								4.15 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-1-04A#12
899-LP-1-04A#13	Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-1-04A#14
899-LP-1-04A#15	Spare	20 A	1			0.00 kVA	0.00 kVA			--	--	Spare	899-LP-1-1-04A#16
899-LP-1-04A#17	Spare	--	--					0.00 kVA	0.00 kVA	--	--	Spare	899-LP-1-1-04A#18
899-LP-1-04A#19	Spare	--	--	0.00 kVA	0.00 kVA					--	--	Spare	899-LP-1-1-04A#20
899-LP-1-04A#21	Spare	--	--			0.00 kVA	0.00 kVA			--	--	Spare	899-LP-1-1-04A#22
899-LP-1-04A#23	Spare	--	--					0.00 kVA	0.00 kVA	--	--	Spare	899-LP-1-1-04A#24
Total Load:				12.45 kVA	12.45 kVA	8.30 kVA							
Total Amps:				109 A	109 A	69 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	33.20 kVA	85.00%	28.22 kVA	Total Conn. Load:	33.20 kVA
				Total Est. Demand:	28.22 kVA
				Total Conn. Current:	92 A
				Total Est. Demand Current:	78 A

LIGHTING CONTROL ZONE LOAD SCHEDULE											
CONTROL ZONE	DESCRIPTION	FIXTURE TYPE	QTY.	NON-DIM	ELV	0-10V	WATTS	TOTAL LOAD	QTY. OF CKTS.	REMARKS	
17-1-001 - VESTIBULE											
LZ1	DOWNLIGHTS	LS1	4			X	10 PER FIXT.	40W	1		
17-1-002 - LOBBY / RECEPTION											
LZ2	RECESSED ADJUSTABLE DOWNLIGHTS	LD2	14			X	24 PER FIXT.	336W	1		
LZ3	RECESSED ADJUSTABLE DOWNLIGHTS	LD2	7			X	24 PER FIXT.	168W	1		
LZ4	PENDANTS	LP3	3			X	10 PER FIXT.	30W	1		
LZ102	RECESSED DOWNLIGHT	LD1	1			X	15 PER FIXT.	15W	1		
17-1-003 - DIRECTOR'S OFFICE											
LZ5	DOWNLIGHTS	LD1	6			X	15 PER FIXT.	90W	1		
17-1-004 - CONFERENCE											
LZ6	DOWNLIGHTS	LD1	4			X	15 PER FIXT.	60W	1		
LZ7	PENDANTS	LP3	2			X	10 PER FIXT.	20W	1		
17-1-005 - INNOVATION STUDIO											
LZ8	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	1			X	64 PER FIXT.	64W	1		
LZ8	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96 PER FIXT.	192W	1		
LZ8	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ9	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	1			X	64 PER FIXT.	64W	1		
LZ9	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96 PER FIXT.	192W	1		
LZ9	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
17-1-006 - JC											
LZ10	2X4 RECESSED	LR1	1	X			50 PER FIXT.	50W	1		
17-1-007 - STORAGE											
LZ11	2X4 RECESSED	LR1	1	X		X	50 PER FIXT.	50W	1		
17-1-008 - COPY / WORK											
LZ12	DOWNLIGHTS	LD1	4			X	15 PER FIXT.	60W	1		
17-1-009 - STAFF TOILET											
LZ13	2X4 RECESSED	LD1	2			X	15 PER FIXT.	30W	1		
17-1-010 & 011 - STAFF LOUNGE / LEARNING RESOURCE CENTER											
LZ14	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96 PER FIXT.	192W	1		
LZ14	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ15	PENDANTS	LP2	4			X	30 PER FIXT.	120W	1		
17-1-012 - STORAGE											
LZ16	2X4 RECESSED	LR1	1	X			50 PER FIXT.	50W	1		
17-1-013 - ELECTRICAL CLOSET											
LZ17	LINEAR LED SURFACE OR SUSPENDED	A	1	X			50 PER FIXT.	50W	1		
17-1-014 - PRESCHOOL 1											
LZ18	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ19	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	3			X	96 PER FIXT.	288W	1		
LZ18	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ20	PENDANTS	LP2	3			X	30 PER FIXT.	90W	1		
LZ21	PENDANTS	LP2	6			X	30 PER FIXT.	180W	1		
LZ22	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ23	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ24	STORAGE DOWNLIGHT	LD1	1	X			15 PER FIXT.	15W	1		
17-1-015 - PRESCHOOL 2											
LZ25	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ26	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	3			X	96 PER FIXT.	288W	1		
LZ25	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ27	PENDANTS	LP2	3			X	30 PER FIXT.	90W	1		
LZ28	PENDANTS	LP2	6			X	30 PER FIXT.	180W	1		
LZ29	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ30	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ31	STORAGE DOWNLIGHT	LD1	1	X			15 PER FIXT.	15W	1		
17-1-016 - K-PREP 1											
LZ32	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ33	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	3			X	96 PER FIXT.	288W	1		
LZ32	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ34	PENDANTS	LP2	3			X	30 PER FIXT.	90W	1		
LZ35	PENDANTS	LP2	6			X	30 PER FIXT.	180W	1		
LZ36	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ37	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ38	STORAGE DOWNLIGHT	LD1	1	X			15 PER FIXT.	15W	1		
17-1-017 - K-PREP 2											
LZ39	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ40	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	3			X	96 PER FIXT.	288W	1		
LZ39	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ41	PENDANTS	LP2	3			X	30 PER FIXT.	90W	1		
LZ42	PENDANTS	LP2	6			X	30 PER FIXT.	180W	1		
LZ43	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ44	TOILET DOWNLIGHTS	LD1	1	X			15 PER FIXT.	15W	1		
LZ45	STORAGE DOWNLIGHT	LD1	1	X			15 PER FIXT.	15W	1		
17-1-018 - PLUMBING											
LZ46	LINEAR LED SURFACE OR SUSPENDED	A	3	X			50 PER FIXT.	150W	1		
17-1-019 - STORAGE											
LZ47	2X4 RECESSED	LR1	2	X			50 PER FIXT.	100W	1		
17-1-020 - CORRIDOR											
LZ48	LED SURFACE MOUNTED DOWNLIGHT	LS1	20			X	10 PER FIXT.	200W	1		
LZ49	LED SURFACE MOUNTED DOWNLIGHT	LS1	19			X	10 PER FIXT.	190W	1		
LZ110	LED RECESSED DOWNLIGHT AT EXIT VESTIBULE	LD1	1			X	15 PER FIXT.	15W	1		
17-1-021 - CORRIDOR											
LZ105	LED SURFACE MOUNTED DOWNLIGHT	LD1	4			X	15 PER FIXT.	60W	1		
17-1-022 - CORRIDOR											
LZ50	LED SURFACE MOUNTED DOWNLIGHT	LS1	19			X	10 PER FIXT.	190W	1		
LZ51	LED SURFACE MOUNTED DOWNLIGHT	LS1	19			X	10 PER FIXT.	190W	1		
LZ109	LED RECESSED DOWNLIGHT AT EXIT VESTIBULE	LD1	2			X	15 PER FIXT.	30W	1		
LZ107	LED SURFACE MOUNTED DOWNLIGHT	LS1	4			X	10 PER FIXT.	40W	1		
LZ108	LED SURFACE MOUNTED DOWNLIGHT	LS1	5			X	10 PER FIXT.	50W	1		
17-1-023 - MOVEMENT MATTERS ZONE											
LZ52	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	1			X	64 PER FIXT.	64W	1		
LZ52	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96 PER FIXT.	192W	1		
LZ52	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128 PER FIXT.	128W	1		
LZ53	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64 PER FIXT.	128W	1		
LZ53	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96 PER FIXT.	192W	1		
17-1-024 - STORAGE											
LZ106	2X4 RECESSED	LR1	1	X			50 PER FIXT.	50W	1		
17-1-025 - TOILET											
LZ54	RECESSED DOWNLIGHT	LD1	2	X			15 PER FIXT.	30W	1		
17-1-026 - HEALTH & SAFETY DIRECTOR											
LZ55	RECESSED DOWNLIGHT	LD1	4			X	15 PER FIXT.	60W	1		
17-1-027 - TELE / DATA											
LZ56	LINEAR LED SURFACE OR SUSPENDED	A	1	X			50 PER FIXT.	50W	1		
17-1-028 - CAR SEAT AND STROLLER STORAGE											
LZ57	RECESSED DOWNLIGHT	LD1	4	X			15 PER FIXT.	60W	1		
17-1-029 - WELLNESS											
LZ58	RECESSED DOWNLIGHT	LD1	4	X			15 PER FIXT.	60W	1		
17-1-030 - TOILET											
LZ59	RECESSED DOWNLIGHT	LD1	2	X			15 PER FIXT.	30W	1		
17-1-031 - TOILET											
LZ60	RECESSED DOWNLIGHT	LD1	2	X			15 PER FIXT.	30W	1		

LIGHTING CONTROL ZONE LOAD SCHEDULE											
CONTROL ZONE	DESCRIPTION	FIXTURE TYPE	QTY.	NON-DIM	ELV	0-10V	WATTS	TOTAL LOAD	QTY. OF CKTS.	REMARKS	
17-1-032 - INFANT 1											
LZ80	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ80	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ81	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ81	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ82	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ83	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
LZ84	TOILET INFANT 3 & 4	LD1	6	X			15	PER FIXT. 90W	1		
17-1-033 - INFANT 2											
LZ85	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ85	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ86	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ86	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ87	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ88	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
17-1-034 - INFANT 3											
LZ89	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ89	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ90	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ90	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ91	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ92	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
LZ93	TOILET INFANT 3 & 4	LD1	6	X			15	PER FIXT. 90W	1		
17-1-035 - INFANT 4											
LZ94	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ94	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ95	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ95	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ96	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ97	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
17-1-036 - TODDLER 1											
LZ61	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ61	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ62	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ62	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ63	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ64	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
LZ65	TOILET TODDLER 1 & 2	LD1	6	X			15	PER FIXT. 90W	1		
17-1-037 - TODDLER 2											
LZ66	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ66	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ67	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ67	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ68	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ69	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
17-1-038 - TODDLER 3											
LZ70	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ70	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ71	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ71	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ72	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ73	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
LZ74	TOILET TODDLER 3 & 4	LD1	6	X			15	PER FIXT. 90W	1		
17-1-039 - TODDLER 4											
LZ75	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. 128W	1		
LZ75	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT. 96W	1		
LZ76	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT. 192W	1		
LZ77	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT. 128W	1		
LZ78	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT. 30W	1		
LZ79	WALL SCONCE	LS2	1			X	10	PER FIXT. 10W	1		
17-1-040 - STORAGE											
LZ101	2X4 RECESSED	LR1	2	X			50	PER FIXT. 100W	1		
17-1-041 - ELECTRICAL											
LZ103	LINEAR LED SURFACE OR SUSPENDED	A	4	X			50	PER FIXT. 200W	1		
17-1-042 - LAUNDRY											
LZ100	2X4 RECESSED	LR1	1	X			50	PER FIXT. 50W	1		
17-1-043 - WATER HEATER											
LZ104	LINEAR LED SURFACE OR SUSPENDED	A	1	X			50	PER FIXT. 50W	1		
17-1-044 - WARMING KITCHEN											
LZ98	2X4 RECESSED	LR1	3			X	50	PER FIXT. 150W	1		
LZ99	2X4 RECESSED	LR1	4			X	50	PER FIXT. 200W	1		
EXTERIOR BUILDING LIGHTING											
EZ1	EXTERIOR WALL SCONCE PER CIVIL DRAWINGS	SL2	18	X			52	PER FIXT. 936W	1		REFER TO CIVIL DRAWINGS FOR SPECS.
EZ2	EXTERIOR LIGHTING AT SIGNAGE	LS2	20			X	10	PER LIN. FT. 200W	1		
EZ3	EXTERIOR DOWNLIGHT AT ENTRY SOFFIT	LS2	2			X	15	PER FIXT. 30W	1		
EZ4	EXTERIOR LED AREA LIGHT PER CIVIL DRAWINGS	SL3	12	X			63	PER FIXT. 756W	1		REFER TO CIVIL DRAWINGS FOR SPECS.
EZ5	EXTERIOR LED MOUNTAIN LIGHTING	SL3	4	X			25	PER FIXT. 100W	1		REFER TO CIVIL DRAWINGS FOR SPECS.
EZ6	EXTERIOR VAPOR TIGHT AT ROOF	B	4	X			15	PER FIXT. 60W	1		

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REGENERON - LIGHTING FIXTURE SCHEDULE										
TYPE	FIXTURE DESCRIPTION	LOCATION	MANUFACTURER	CATALOG NUMBER	FINISH	LAMPING	FIXTURE INPUT			REMARKS
							VOLTAGE	WATTS	UNITS	
A	SURFACE OR PENDANT MOUNTED LED LINEAR STRIP LIGHT WITH NOMINAL 4" LONG HOUSING, DIFFUSING LENS, AND INTEGRAL DRIVER.	GENERAL	COOPER-METALUX	INDUSTRIAL LED LINEAR BAY #44-LED-1J-LD05-5-W-TBW-UNV-L85C-CD	PER ARCHITECT	LED 3500K 5000 LM	UNV	50	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-41.
B	SURFACE MOUNTED LED VAPORTIGHT FIXTURE, WITH GUARDED DIFFUSING LENS, INTEGRAL DRIVER AND WET LOCATION RATINGS.	ROOF	LITHONIA	OLVTWM	PER ARCHITECT	LED 4000K 600 LM	UNV	15	PER FIXT.	
LD1	CEILING RECESSED DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 1.5 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 45 DEGREE BEAM, 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER.	GENERAL	TECH LIGHTING	ELEMENT 4" HOUSING E4PH #E4PS-F-15-890-D-1-N (INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-D-930-6-[FINISH]-[FINISH])	PER ARCHITECT	LED 3000K 1500 LM	277	15	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-56.
LD2	CEILING RECESSED ADJUSTABLE DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 6 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 40 DEGREE BEAM, 0-40 DEGREE TILT ADJUSTMENT AND 360 DEGREE ROTATION, WITH 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER.	MAIN LOBBY	TECH LIGHTING	ELEMENT 4" HOUSING E4NGH #E4PS-F-15-890-A-A-N (INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-A-[FINISH]-[FINISH]) & #353E4LED0CPT-25	PER ARCHITECT	LED 3000K 1800 LM	277	24	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-56.
LP1	NOT USED.									
LP2	SURFACE MOUNTED LED PENDANT WITH 4.5 INCH SQUARE PROFILE X 5 INCH HIGH, WIDE BEAM 83 DEGREE OPTICS, WITH INTEGRAL 0-10V DIMMABLE DRIVER, PROVIDE WITH RIGID STEM PENDANT, LENGTH TO BE CONFIRMED.	PRE-K CLASSROOM	SPECTRUM	PICO PENDANT #C045S0XT[OUTPUT TO BE CONFIRMED]30K-XW-DS10X-FG-PW[FINISH]	PER ARCHITECT	LED 3000K 3000 LM	277V	30	PER FIXT.	ALLOW UP TO 30W EACH.
LP3	CEILING SUSPENDED LED PENDANT, WITH NOMINAL 14.5 INCH ROUND X 15 INCH HIGH CONICAL PROFILE, RECESSED CEILING BOX REQUIRED, INTEGRAL ELV OR 0-10V DIMMABLE DRIVER REQUIRED.	LOBBY AND CONFERENCE	TECH LIGHTING	MILO #700TDMLO-W0-LED927	PER ARCHITECT	LED 3000K 400 LM	120V	10	PER FIXT.	
LR1	CEILING RECESS MOUNTED LED TROFFER, WITH NOMINAL 2'X4 HOUSING, DIFFUSING LENS AND INTEGRAL 0-10V DIMMABLE DRIVER WHERE DIMMING IS SPECIFIED.	GENERAL	AXIS LIGHTING	DIA 2'X4 LED #DALED-24-5000-80-35-VL-W-U-0P-1-[MOUNTING]	PER ARCHITECT	LED 3500K 5000 LM	UNV	50	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD SIMILAR TO TYPE LT-65 ALLOW UP TO 50W PER FIXTURE, 3000K COLOR TEMPERATURE IS RECOMMENDED.
LR2	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 2'X2 SQUARE PATTERN.	CLASSROOMS	ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[2'X2 SQUARE]-[GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[100W]-UNV	PER ARCHITECT	LED 3000K 964 LM PER FT	UNV	64	PER FIXT.	POWER SUPPLIES SUBJECT TO VATTAGE AND CONTROL SYSTEM LIMITATIONS.
LR3	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 2'X4 RECTANGULAR PATTERN.	CLASSROOMS	ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[2'X4 RECTANGLE]-[GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[100W]-UNV	PER ARCHITECT	LED 3000K 964 LM PER FT	UNV	96	PER FIXT.	POWER SUPPLIES SUBJECT TO VATTAGE AND CONTROL SYSTEM LIMITATIONS.
LR4	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 4'X4 SQUARE PATTERN.	CLASSROOMS	ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[4'X4 SQUARE]-[GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[200W]-UNV	PER ARCHITECT	LED 3000K 964 LM PER FT	UNV	128	PER FIXT.	POWER SUPPLIES SUBJECT TO VATTAGE AND CONTROL SYSTEM LIMITATIONS.
LS1	SQUARE SURFACE MOUNTED DOWNLIGHT NOMINAL 4 INCH SQUARE X 0.7 INCH HIGH PROFILE AND 0.25 INCH WIDE FRAME, DIFFUSED LENS, PROVIDE WITH INTEGRAL ELV OR 0-10V DIMMABLE DRIVER WITH 277V AC INPUT.	INFANT CORRIDOR	JUNO	SLIMFORM LED #JFSQ-SIN07LM-30K-90CRI-MVOLT-ZT-WH	PER ARCHITECT	LED 3000K 700 LM	UNV	10	PER FIXT.	
LS2	SURFACE MOUNTED LED SCONCE WITH 4.5 INCH SQUARE PROFILE X 5 INCH HIGH, WIDE BEAM 83 DEGREE OPTICS, WITH INTEGRAL 0-10V DIMMABLE DRIVER.	INFANT CLASSROOM	SPECTRUM	PICO SCONCE #C045S0XT-10L-30K-XW-DS10X-FG-WM3-[FINISH]	PER ARCHITECT	LED 3000K 1000 LM	277V	10	PER FIXT.	MOUNT FIXTURE IN COMPLIANCE WITH ALL ADA REQUIREMENTS.
LX1	NOT USED.									
LX2	EXTERIOR RATED RECESSED MOUNTED LINEAR LED DOWNLIGHT WITH WALLGRAZING OPTICS, NOMINAL 2.5 INCH WIDE X 4 INCH HIGH HOUSING WITH DIFFUSED SATINE CONTINUOUS LENS, AND INTEGRAL DIMMABLE DRIVER, RATED IP65 FOR EXTERIOR WET LOCATIONS.	EXTERIOR ENTRY SCONAGE VESTIBULE WALL	SELUX	M60 #LB02-1C40-930-[A2 OR A5 OPTICS]-[MOUNTING]-[LENGTH PER DRAWINGS]-SP-U-DIM	PER ARCHITECT	LED 3000K 954 LM PER FT	UNV	10	PER LIN. FT	PROVIDE WITH INTEGRAL DIMMABLE 0-10V DRIVER AND CONTROLS.
LX3	EXTERIOR RATED CEILING RECESSED DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 3.5 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 45 DEGREE BEAM, 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER, RATED IP65 FOR EXTERIOR WET LOCATIONS.	EXTERIOR ENTRY VESTIBULE SOFFIT	TECH LIGHTING	ELEMENT 4" HOUSING E4PH #E4PS-F-15-890-D-1 [WET LOCATION](INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-D-930-6-[FINISH]-[FINISH])	PER ARCHITECT	LED 3000K 1500 LM	277	15	PER FIXT.	PROVIDE WITH INTEGRAL DIMMABLE 0-10V DRIVER AND CONTROLS.

- LIGHTING NOTES:**
1. FOR ALL LED FIXTURES, CONTRACTOR TO PROVIDE SPECIFIED LUMEN OUTPUT AT REDUCED WATTAGE IF FIXTURE EFFICIENCY HAS IMPROVED SINCE THE PUBLISHING OF THIS DOCUMENT.
 2. ALL LUMEN OUTPUTS INDICATED REFERENCE DELIVERED LUMENS.
 3. SEE APPENDIX A OF SPECIFICATIONS BOOK FOR CORRESPONDING LIGHT FIXTURE CUTSHEETS.
 4. ALL MANUFACTURERS OF CONTINUOUS-RUN LINEAR FIXTURES MUST SUBMIT SHOP DRAWINGS COORDINATED WITH ARCHITECTURAL DRAWINGS FOR RUN LENGTH REVIEW.
 5. FOR ALL LUMINAIRES WHERE MOCKUPS ARE INDICATED AND FOR ALL FIXTURES WITH A TRANSLUCENT LENS OR DIFFUSER, SAMPLES OF LED FIXTURES AND DIFFUSER MATERIALS WHERE APPLICABLE SHALL BE REVIEWED AND APPROVED BY DESIGN TEAM PRIOR TO FABRICATION.
 6. FOR ALL LUMINAIRES, CONTRACTOR TO CONFIRM DRIVER COMPATIBILITY WITH INSTALLED CONTROLS SYSTEM.
 7. CONTRACTOR TO LOCATE ALL REMOTE DRIVERS IN ACCESSIBLE AND VENTILATED LOCATION NEAR ASSOCIATED FIXTURES.
 8. ALLOW FOR MINIMUM OF 1 CONTROL ZONE PER FIXTURE TYPE FOR EACH ROOM, UNLESS OTHERWISE SPECIFIED.
 9. CONTRACTOR TO CONFIRM ALL ZONING AND LIGHTING CONTROL SHOP DRAWINGS PRIOR TO LIGHT FIXTURE AND WIRING INSTALLATION.
 10. CONTRACTOR TO PROVIDE ALL INSTALLATION WIRING, LIGHTING ACCESSORIES, MOUNTING ACCESSORIES AND ALL NECESSARY REQUIRED COMPONENTS FOR SUCCESSFUL INSTALLATION.
 11. REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE MOUNTING AND SUSPENSION HEIGHTS.
 12. FIXTURE FINISH TYPE TO BE CONFIRMED BY ARCHITECT. ANTI-MICROBIAL PAINT FINISH MAY BE REQUIRED. CLIENT TO CONFIRM SPEC REQUIREMENTS.
 13. INSTALL ALL FIXTURES IN COMPLIANCE WITH ADA REGULATIONS AND GUIDELINES.
 14. ALL FIXTURE ALTERNATES WHETHER LISTED IN THIS SCHEDULE OR PROVIDED BY OTHERS REQUIRE APPROVAL FROM OWNER/ARCHITECT/LIGHTING DESIGNER.

SITE LIGHTING SCHEDULE							
TYPE	FIXTURE DESCRIPTION	LOCATION	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	NOTE A7
SL1	OUTDOOR LED AREA LIGHT	SITE	LSI CORP	MRS-LED-09L-SIL-5W-30-70CRI	63	277V	WITH MOTION AND PHOTOCELL SENSOR
SL2	OUTDOOR LED WALL LIGHT	SITE	LSI CORP	XWS-LED-06L-FTW-40-80CRI	52	277V	WITH MOTION AND PHOTOCELL SENSOR
SL3	MONUMENT LIGHTING	SITE		COORDINATE LIGHTING FIXTURE TYPE WITH ARCHITECT		277V	CONTROLLED VIA TIMECLOCK ON PHOTOCELL OFF

- SITEL IGHTING SCHEDULE NOTES:
1. FOR EXACT QUANTITY, LOCATION, AND TYPES FOR SITE LIGHTING FIXTURES, REFER TO CIVIL ENGINEERS DRAWING C-600 FOR ADDITIONAL INFORMATION.
 2. REFER TO DETAIL '1X' FOR SITE LIGHTING DETAIL.
 3. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONTROLS, APPURTENANCES, AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION AS PER INSTRUCTIONS ISSUED BY SYSTEM VENDOR.FINAL LOCATION FOR SITE LIGHTING FIXTURES SHALL BE COORDINATED WITH ARCHITECT.
 4. REFER TO DRAWING E-052 FOR SITE LIGHTING PLAN.

REGENERON
REAL ESTATE & FACILITIES MANAGEMENT

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Building #17
Campus Expansion Child
Day-care Center

777 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE
Architect
Gensler
1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
(212) 492-1472 Fax

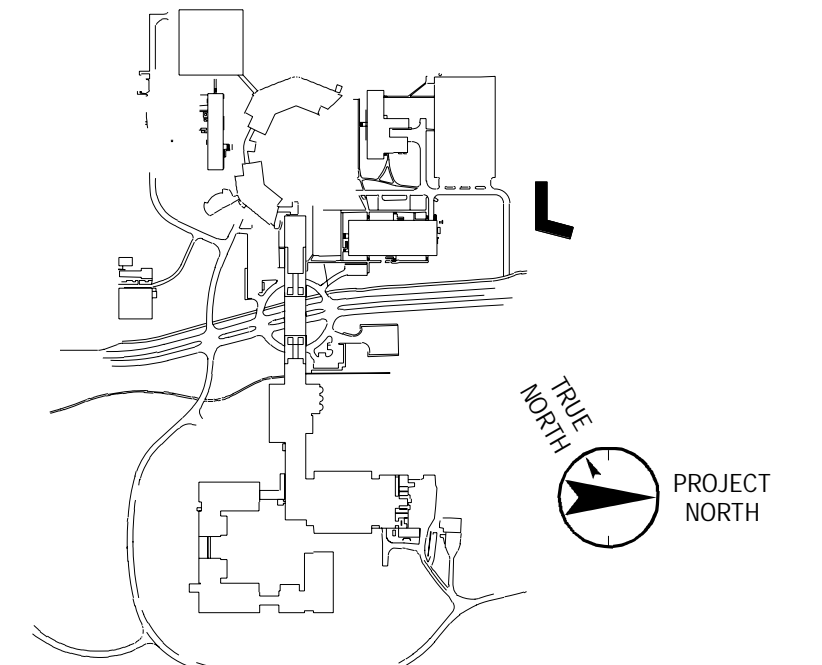
Structural Engineer
Thornton Tomasetti
120 Broadway, 15th Floor
New York, NY 10271
(917) 661-7800 Phone
(917) 661-7801 Fax

MEP / IT / Security Engineer
Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

Civil Engineer
JMC
120 Bedford Road
Armonk, NY 10504
(914) 273-5225 Phone
(914) 273-2102 Fax

Landscape Architect
Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No.	Date	Description
0	05.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI
ELECTRICAL SCHEDULES
SHEET 4

Scale: 12" = 1'-0" Floor:

E-603

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: AI
ELECTRICAL RISER DIAGRAM

Scale: 1/8" = 1'-0" Floor:

E-700



TO THE BEST OF MY KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGMENT, THESE PLANS AND
SPECIFICATION ARE IN COMPLIANCE WITH THE
2020 ENERGY CONSERVATION CODE OF NYS

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