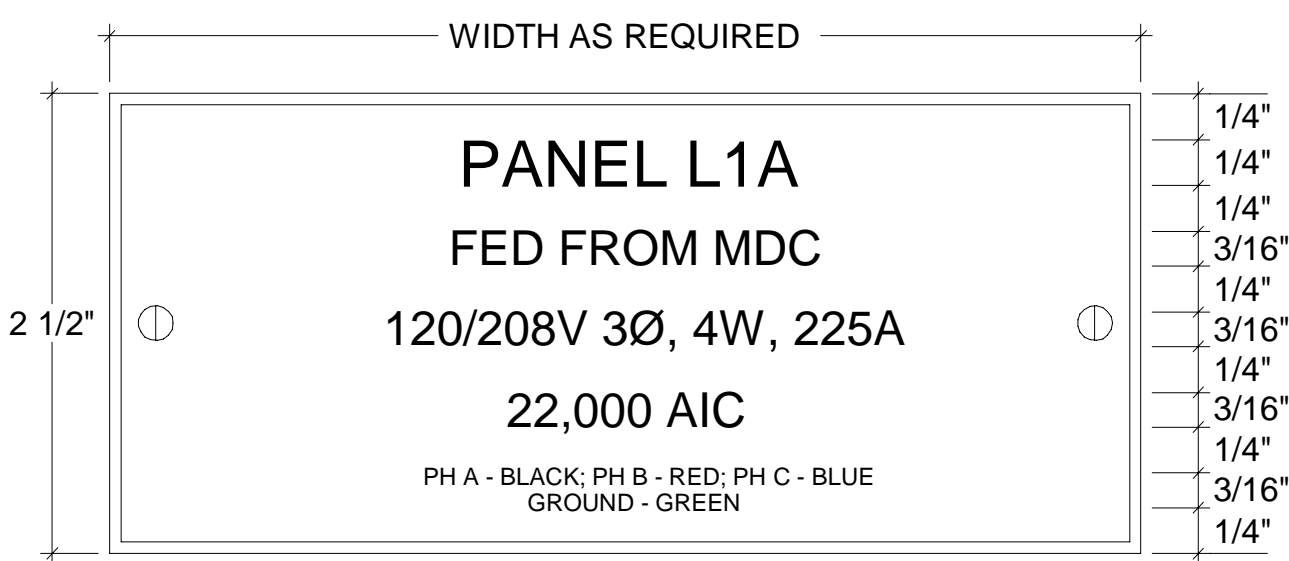
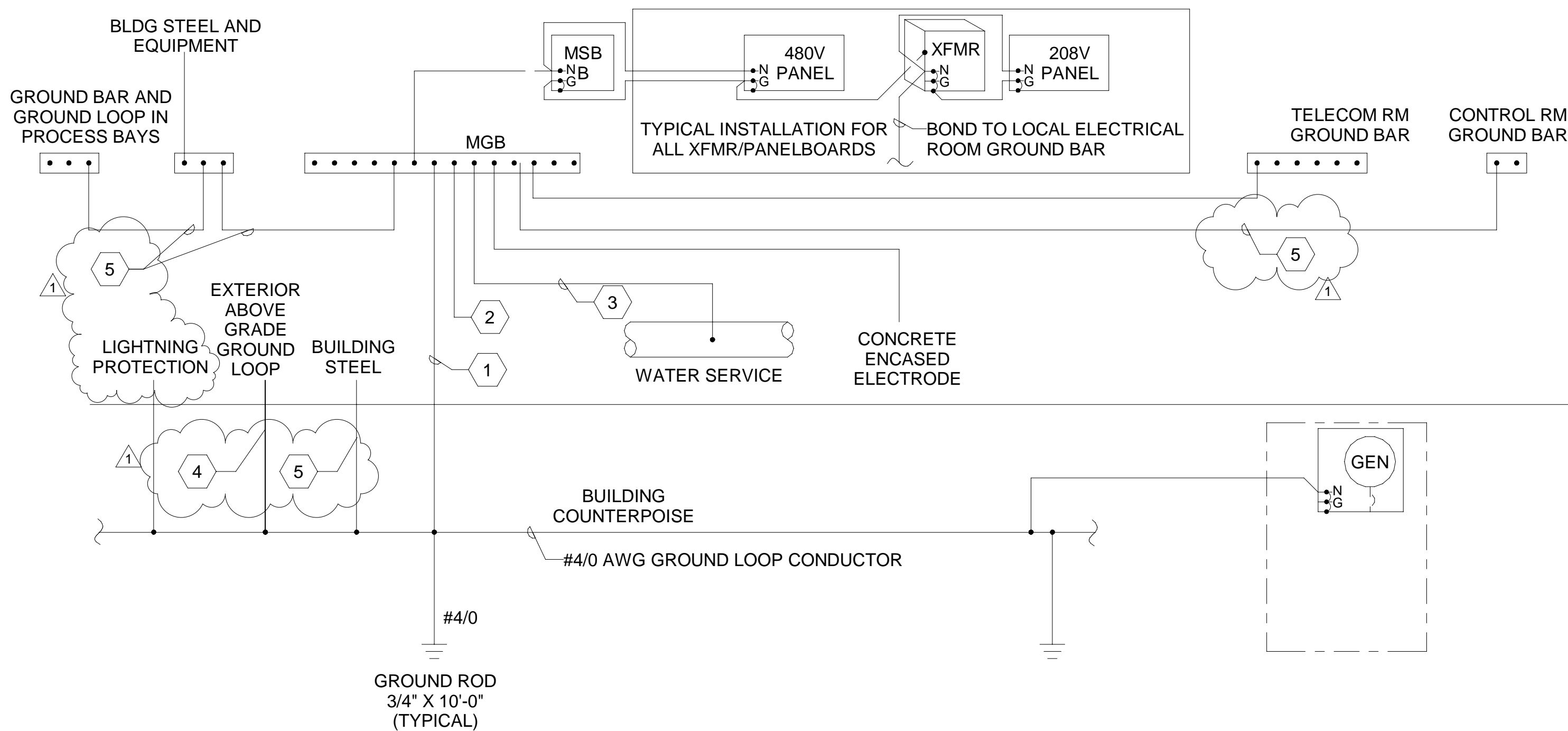


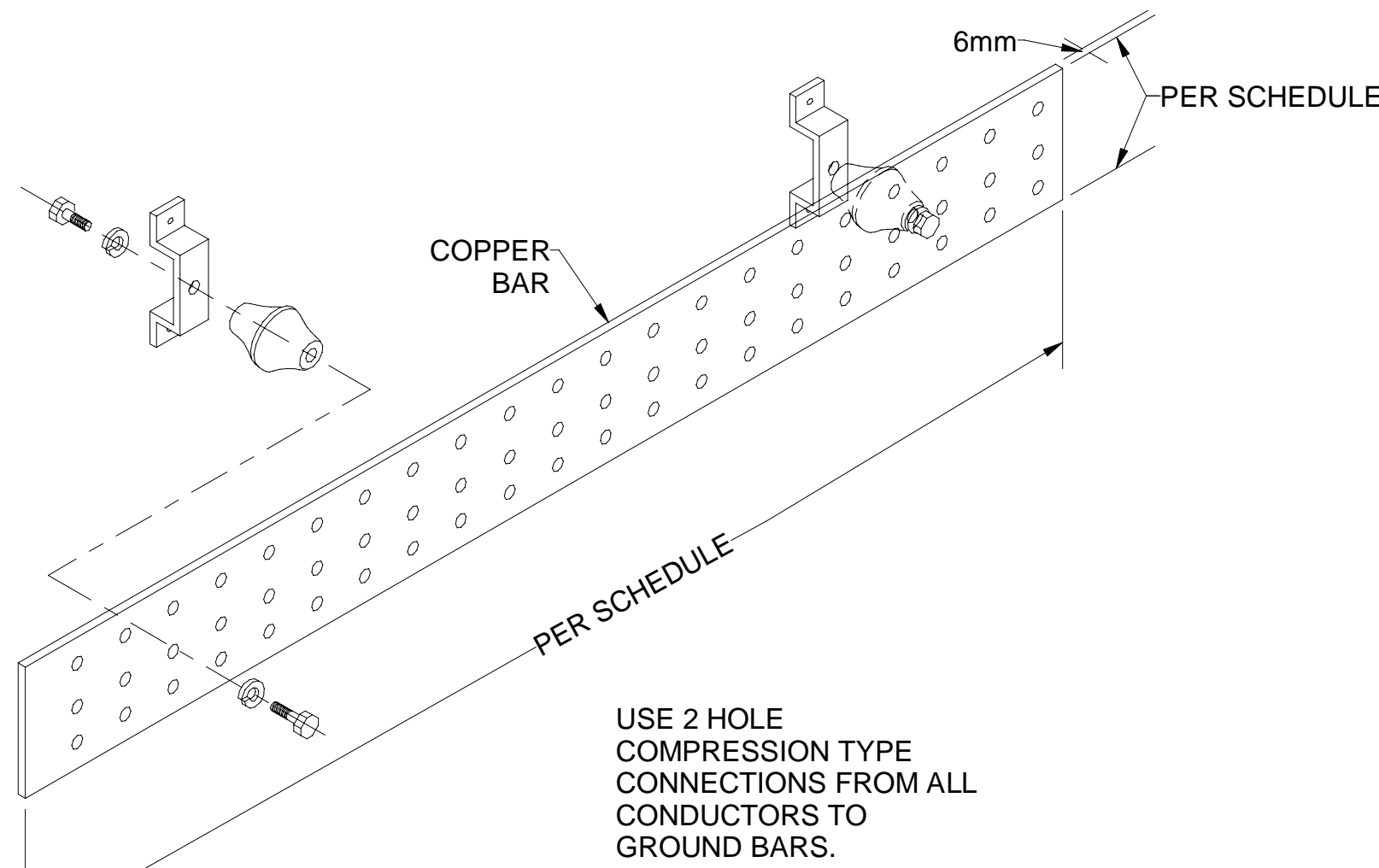
D1 GROUND ROD TEST WELL
NTS



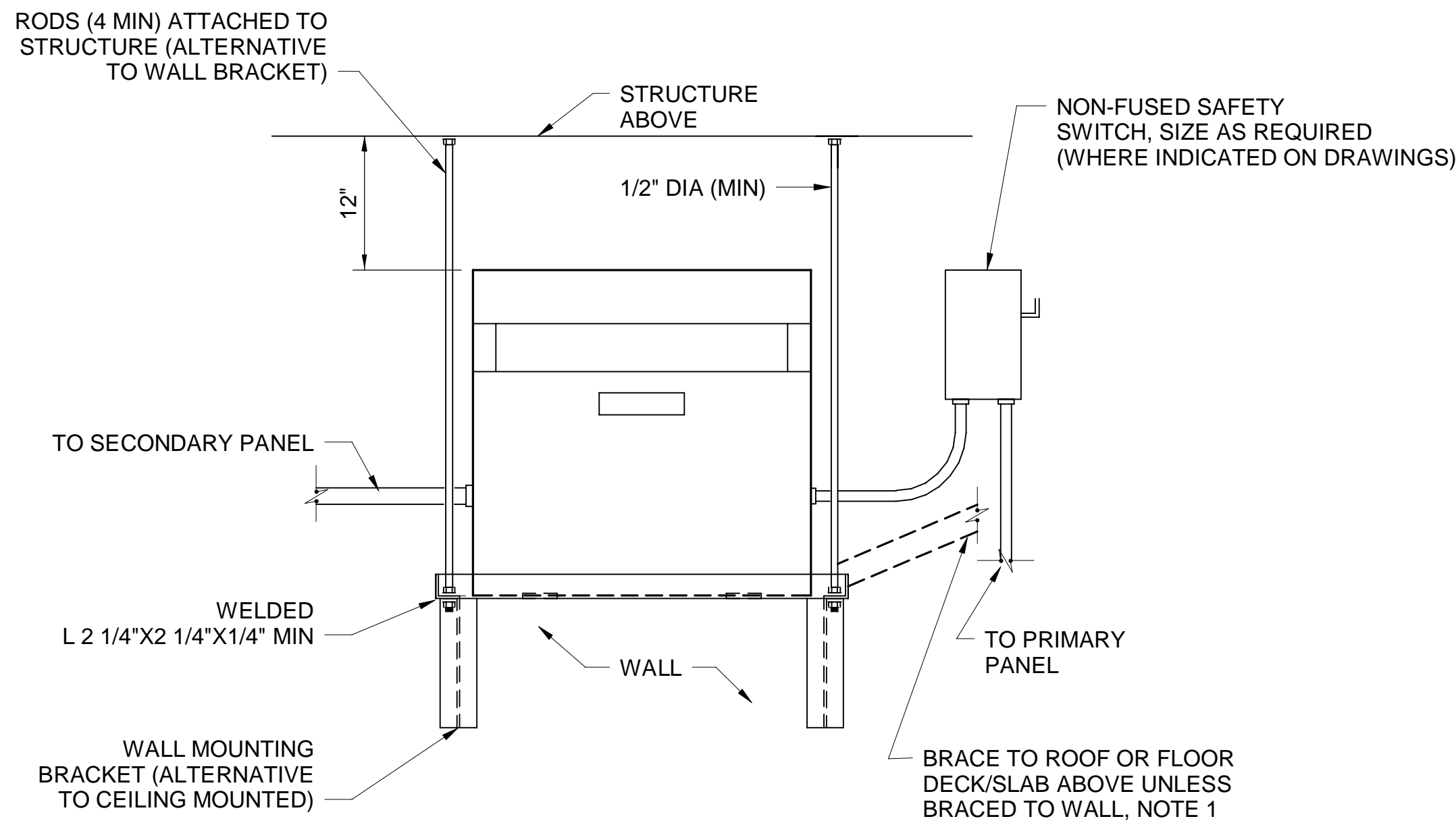
C1 EQUIPMENT IDENTIFICATION LABEL
NTS



A1 GROUNDING - RISER
NTS



D3 GROUNDING - GROUND BAR INSTALLATION
NTS



- NOTES:
- SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.
- TRANSFORMERS SHALL ONLY BE WALL OR CEILING MOUNTED WHERE THERE IS NO REASONABLE ALTERNATIVE AND THEIR SUPPORT SHOULD BE REVIEWED WITH A STRUCTURAL ENGINEER.

D5 DRY TYPE TRANSFORMER INSTALLATION
NTS

TRANSFORMER SCHEDULE1					
KVA RATING	PRIMARY		SECONDARY		GEC
	BREAKER	FEEDER	BREAKER	FEEDER	
15	30/3	3#10, 1#10G, 3/4"C	60/3	4#4, 1#8 SSB, 1-1/4"C	#8
30	50/3	3#6, 1#8G, 1"C	100/3	4#1, 1#6 SSB, 1-1/2"C	#6
45	70/3	3#4, 1#8G, 1"C	150/3	4#1/0, 1#6 SSB, 2"C	#6
75	125/3	3#1/0, 1#6G, 2"C	225/3	4#4/0, 1#2 SSB, 2-1/2"C	#2
112.5	175/3	3#2/0, 1#6, 1N 1-1/2"C	400/3	2 SETS (4#3/0, #2 SSB IN 2"C.)	#2
150	250/3	3#250KCMIL, #4G, 1N 2"C	600/3	2 SETS (4#350KCMIL, #2/0 SSB IN 3"C.)	#2/0
225	350/3	3-500KCMIL, #3G, 1N 3"C	800/3	3 SETS (4-300KCMIL, #2/0 SSB IN 3"C.)	#2/0

FEEDER SCHEDULE						
MARK	PH & NEU	GND	# SET	CONDUIT SIZE		
				3C+G	4C+G	
15	12	12	1	3/4"	3/4"	
20	12	12	1	3/4"	3/4"	
30	10	10	1	3/4"	3/4"	
40	8	10	1	3/4"	3/4"	
50	6	10	1	3/4"	1"	
60	4	10	1	1"	1 1/4"	
70	4	8	1	1"	1 1/4"	
80	3	8	1	1 1/4"	1 1/4"	
90	2	8	1	1 1/4"	1 1/2"	
100	1	8	1	1 1/2"	1 1/2"	
110	1	6	1	1 1/2"	1 1/2"	
125	1	6	1	1 1/2"	2"	
150	1/0	6	1	1 1/2"	2"	
175	2/0	6	1	2"	2"	
200	3/0	6	1	2"	2 1/2"	
225	4/0	4	1	2"	2 1/2"	
250	250	4	1	2 1/2"	3"	
300	350	4	1	3"	3"	
350	500	2	1	3"	4"	
400	3/0	2	2	2"	2"	
450	4/0	2	2	2"	2 1/2"	
500	250	2	2	2 1/2"	3"	
600	350	1	2	3"	3"	
700	500	1/0	2	3"	4"	
800	300	1/0	3	2 1/2"	3"	
900	350	2/0	3	3"	3"	
1000	400	2/0	3	3"	3"	
1200	350	3/0	4	3"	3"	
1600	400	4/0	5	3"	3"	
2000	500	250	6	4"	-	

GENERAL NOTES

- REFER TO ONE-LINE DIAGRAM IN SEPARATE PACKAGES FOR FEEDER NEUTRAL AND GROUND SIZES AND FOR DRY-TYPE TRANSFORMER GROUND SIZES.
- REFER TO TELECOMMUNICATION SHEETS FOR TELECOMMUNICATIONS EQUIPMENT GROUNDING DESCRIPTIONS.
- REFER TO SHEETS EP SHEETS IN EACH BUILDING PACKAGE FOR ADDITIONAL GROUND BAR AND GROUNDING POINTS.
- TELECOMMUNICATIONS BACKBONE BONDING CONDUCTORS (TBBs) SHALL BE INSTALLED WITHOUT SPLICES.
- GROUND CONDUCTOR SIZES ARE IDENTIFIED AS MINIMUMS. PROVIDE ACTUAL CABLE SIZE BASED ON ACTUAL CABLE ROUTING AND ANSI-J-STD-607-A STANDARDS IF LARGER.
- GROUND BAR CONNECTIONS SHALL BE MADE USING 2 HOLE COMPRESSION TYPE CONNECTORS.

KEYED NOTES

- #4/0 TO BUILDING RING
- #4 AWG BONDING CONDUCTOR TO CONCRETE ENCASED GROUND CONNECTION.
- #6 AWG BONDING CONDUCTOR TO METAL WATER PIPING.
- #6 BUILDING MOUNTED GROUNDING RING ABOVE GRADE. (TYP)
- #1/0 BONDING CONDUCTORS TO BUILDING STEEL, TO SHOP AND PROCESS BAY GROUNDING SYSTEMS AND GROUND BARS. (TYP)

FEEDER SCHEDULE NOTES

A	THIS SCHEDULE IS BASED ON INTERNAL AREA OF EMT, RGS, OR SCHEDULE 40 PVC CONDUIT AND THE AMPACITIES FOR EM OR CET INSULATION.
B	FEEDER MARK "X1XXX" INDICATES FEEDER RATING AND NUMBER OF PHASE CONDUCTORS INCLUDING NEUTRAL. PROVIDE GROUND AS INDICATED ON FEEDER SCHEDULE.
C	UNDERGROUND SERVICE ENTRANCE FEEDERS CONSIST OF THREE PHASE WIRES AND NEUTRAL. NUMBER OF CONDUCTORS PER PHASE ARE CALCULATED VALUES BASED ON SPECIFIC DUCT BANK ARRANGEMENTS, LOAD FACTORS, AND SOIL CONDITIONS.
D	SECONDARY FEEDERS ARE AS SCHEDULED UON.

NABHOLZ



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Check	Author	Design	DR	CHK	APVD	BY	AM	TM
1	10/18/2024	100% ISSUED FOR CONSTRUCTION - EXPANSION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION
0	09/18/2024	100% ISSUED FOR CONSTRUCTION - EXPANSION	REVISION	REVISION	REVISION	REVISION	REVISION	REVISION
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.

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ELECTRICAL
DETAILS

SHEET NO	E-801
SCALE	As indicated
DATE	09/18/2024
PROJ	D3754500
DWG	CADD, Standard Detail, E-801