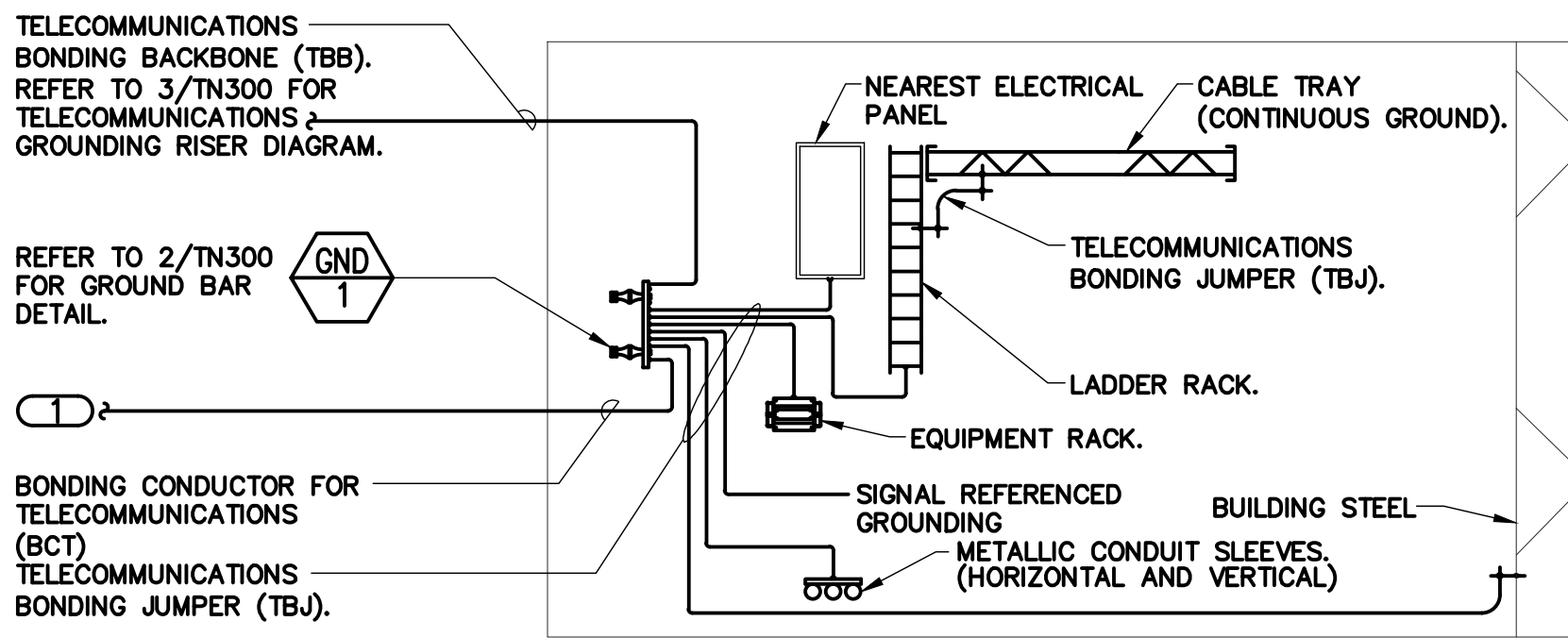


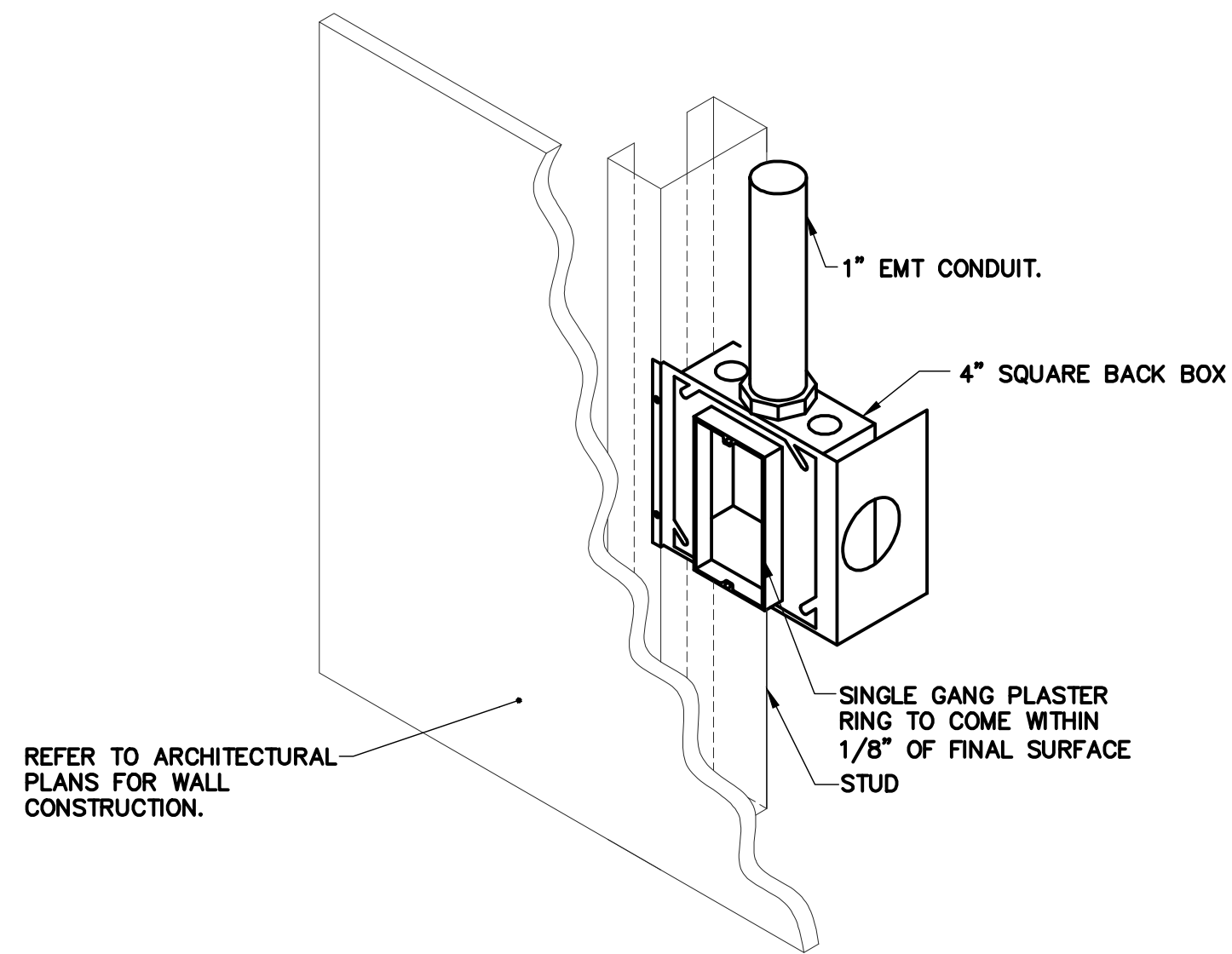
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 TELECOM ROOM GROUNDING DETAIL

NO SCALE

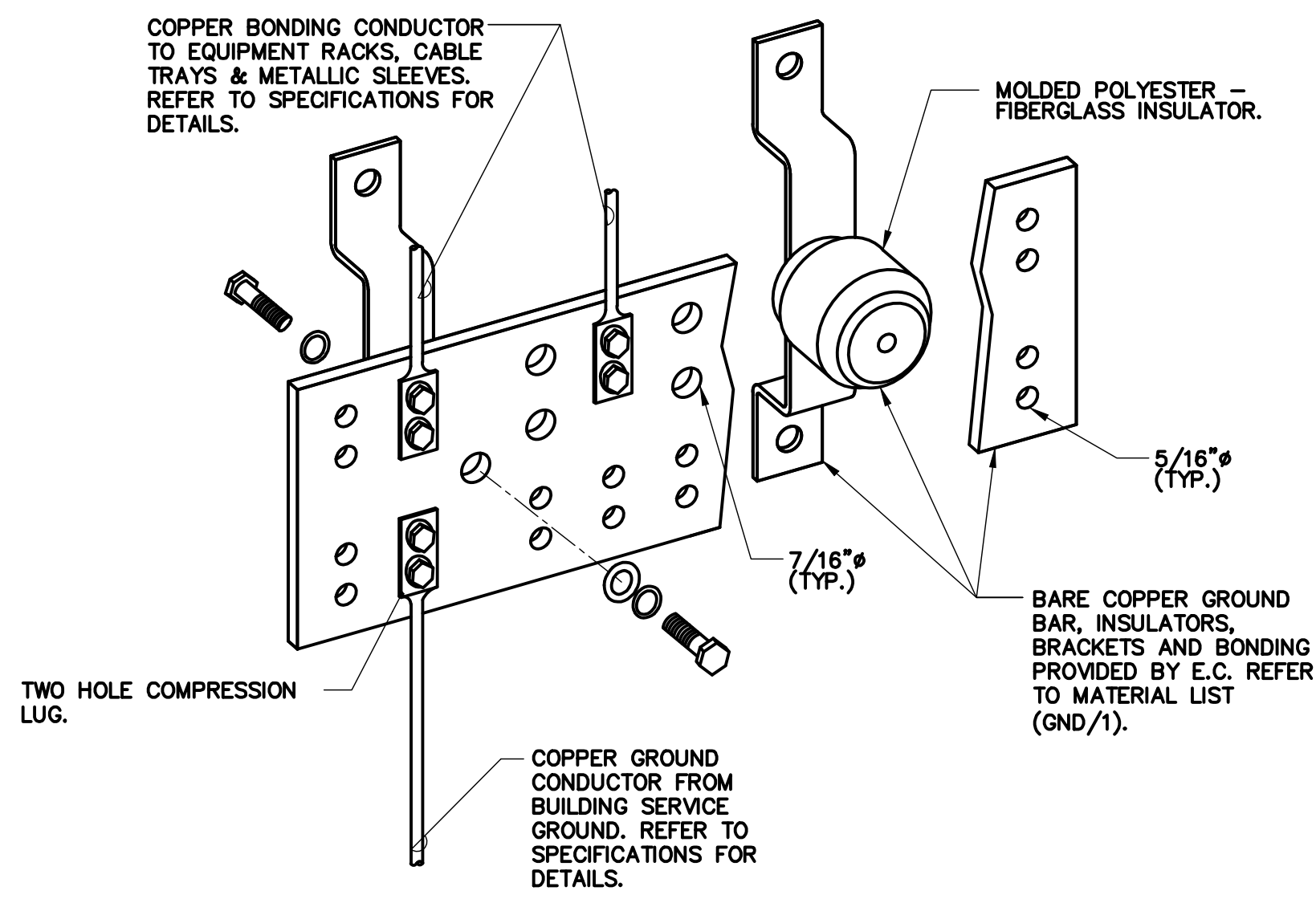
- NOTES:
1. ALL CONDUCTORS IN THE TELECOMMUNICATIONS GROUNDING SYSTEM SHALL BE #6 AWG PLENUM RATED COPPER CONDUCTORS (GREEN) UNLESS DISTANCE IS GREATER THAN 12 FEET, THEN SEE GROUNDING CONDUCTOR SIZING SCHEDULE.
 2. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT TELECOMMUNICATIONS BONDING JUMPERS TO EQUIPMENT. ALL CONNECTIONS SHALL UTILIZE LISTED HARDWARE.
 3. BONDING TO PAINT TREATED SURFACES SHALL UTILIZE PAINT PIERCING LUGS.
 4. GROUNDING DETAIL IS DIAGRAMMATIC, REFER TO ENLARGED PLANS FOR QUANTITIES AND LOCATION OF EQUIPMENT.
- KEYNOTES:
- 1 TO EXISTING ELECTRICAL ENTRANCE FACILITY. THIS CONNECTION OCCURS IN (ER/1) ONLY. REFER TO 3/TN300 FOR GROUNDING RISER DIAGRAM.



4 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

NO SCALE

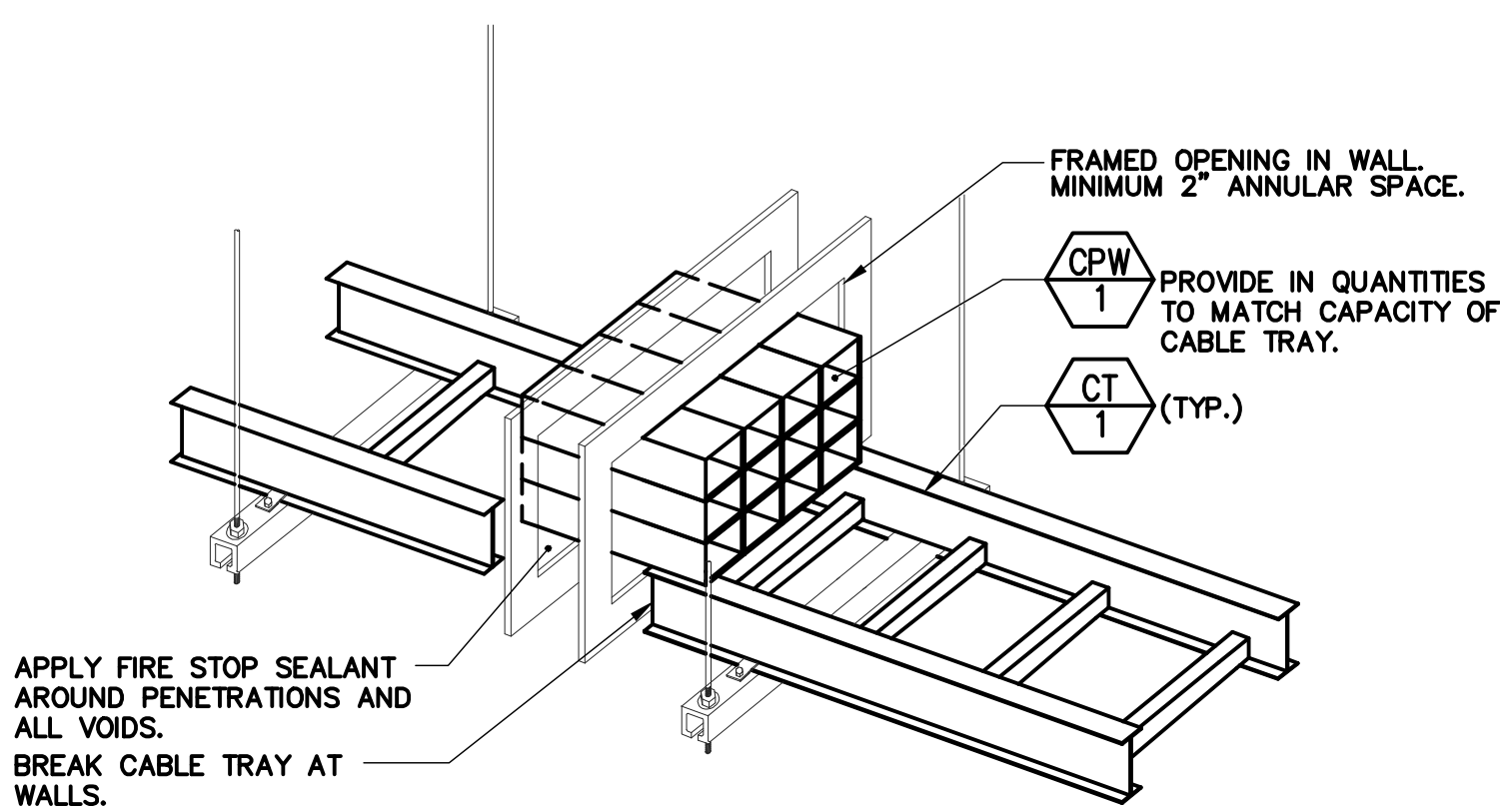
- NOTES:
1. REFER TO FLOOR PLANS FOR STANDARD MOUNTING HEIGHTS AND LOCATIONS.



2 GROUND BAR DETAIL

NO SCALE

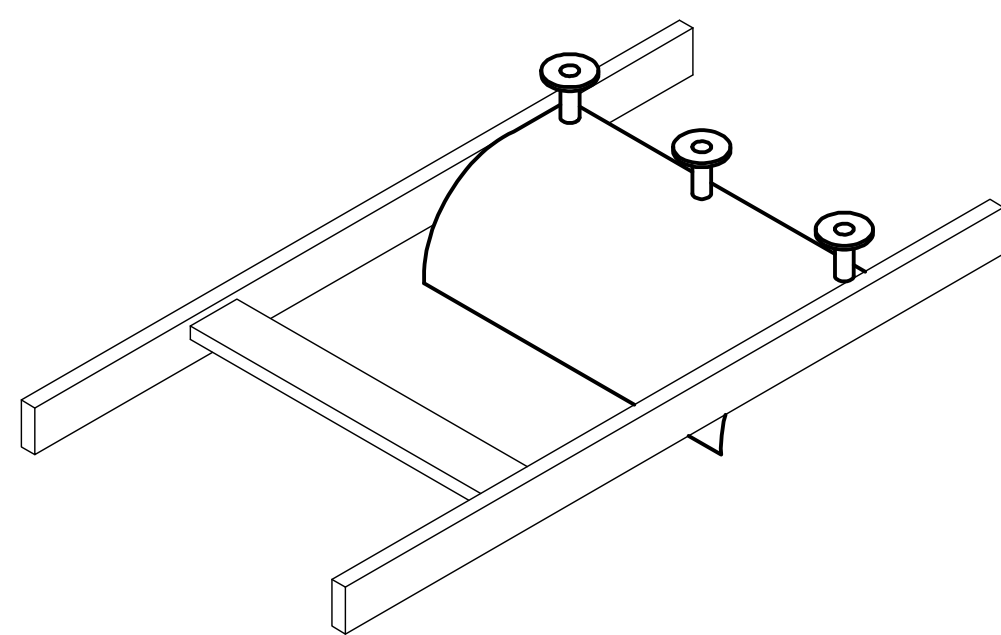
- NOTES:
1. 4\"/>
 2. REFER TO 1/TN300 FOR ROOM GROUNDING DETAIL.



5 FIRE RATED CABLE PATHWAY DETAIL

NO SCALE

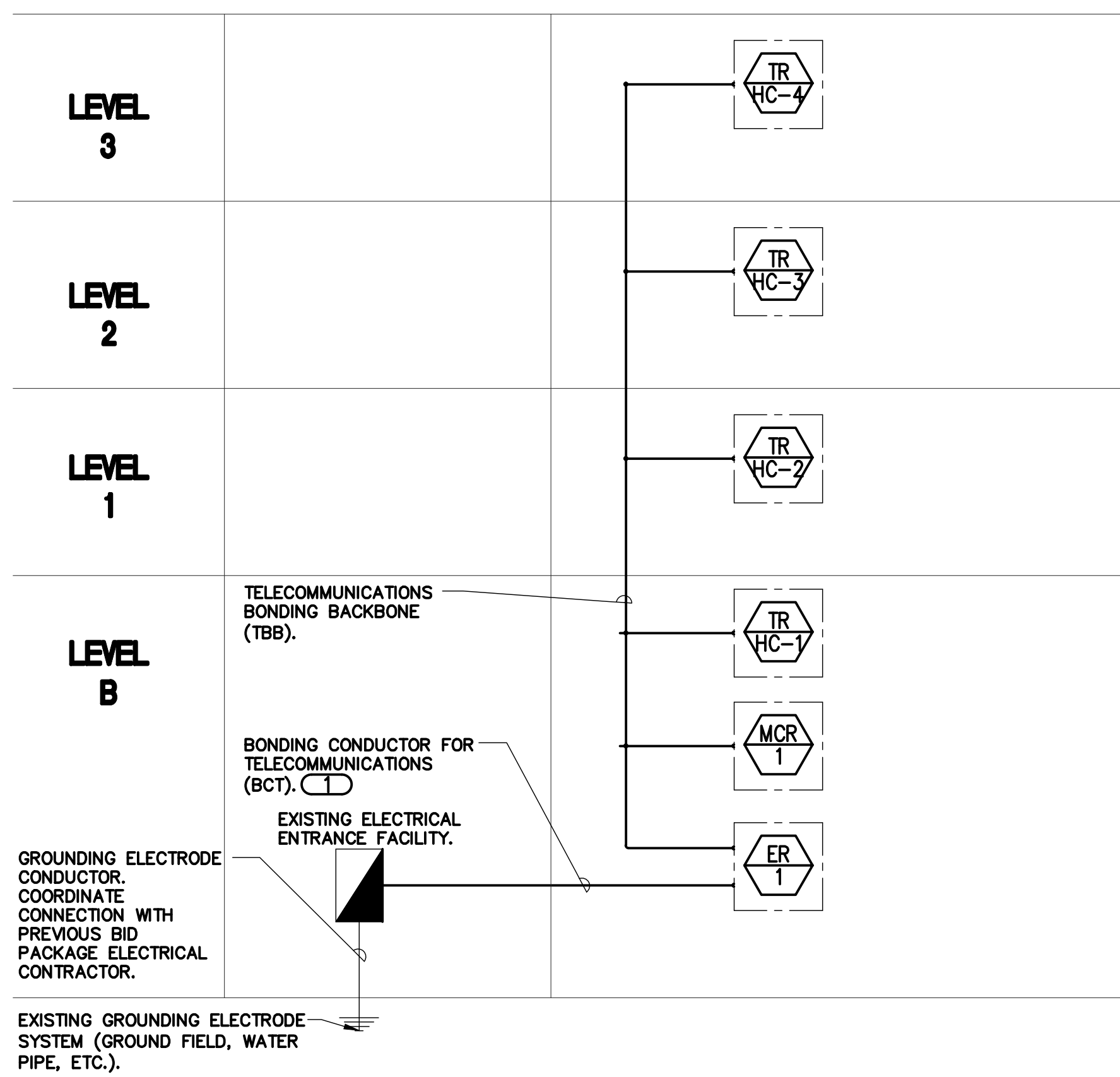
- NOTES:
1. REFER TO SPECIFICATION SECTION 27 05 03 THROUGH PENETRATION FIRESTOPPING FOR ADDITIONAL INFORMATION.
 2. REFER TO MATERIAL LIST FOR DESCRIPTION OF (CT/1). LADDER TYPE CABLE TRAY IS ONLY SHOWN FOR CLARITY OF ILLUSTRATION.
 3. PROVIDE GROUNDING LUGS WITH (CPW/1) AND BOND TO GROUND PER MANUFACTURERS INSTRUCTIONS.
 4. PROVIDE #6 AWG GREEN COPPER GROUND WIRE BETWEEN SECTIONS OF (CT/1) TO MAINTAIN CONTINUOUS GROUND. ATTACH TO (CT/1) WITH MANUFACTURER APPROVED GROUNDING CLAMPS OR LUGS.



6 CABLE RUNWAY RADIUS DROP

NO SCALE

- NOTES:
1. RADIUS SHALL ALIGN WITH CABINET OR RACK WIRE MANAGEMENT.



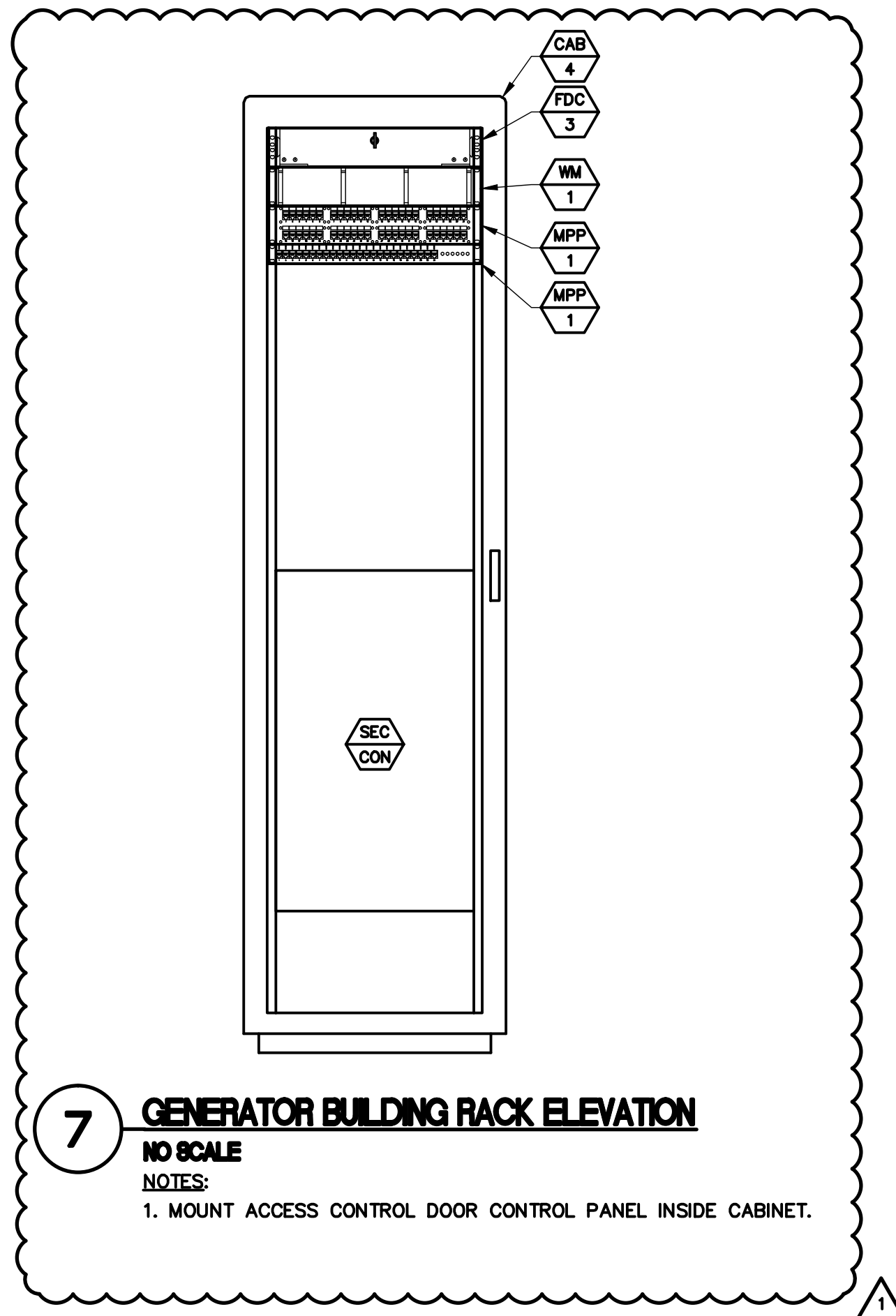
3 GROUNDING RISER DIAGRAM

NO SCALE

- NOTES:
1. ALL CONDUCTORS IN THE TELECOMMUNICATIONS GROUNDING SYSTEM SHALL BE MINIMUM SIZE OF #6 AWG PLENUM RATED COPPER CONDUCTORS (GREEN) UNLESS DISTANCE IS GREATER THAN 12 FEET, THEN SEE GROUNDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA.
 2. GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION.
 3. REFER TO 1/TN300 FOR TELECOM ROOM GROUNDING DETAIL.
- KEYNOTES:
- 1 BCT SHALL BE AT LEAST THE SAME SIZE AS THE TBB. REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

GROUNDING CONDUCTOR SIZING SCHEDULE	
CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
0' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0

TELECOM ROOM REFERENCES	
TELECOM ROOM	DETAIL/SHEET REFERENCE
(ER/1)	1/TN200
(MCR/1)	4/TN200
(TR/HC-1)	1/TN201
(TR/HC-2)	6/TN201
(TR/HC-3)	1/TN202
(TR/HC-4)	6/TN202

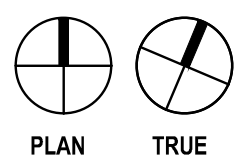


7 GENERATOR BUILDING RACK ELEVATION

NO SCALE

- NOTES:
1. MOUNT ACCESS CONTROL DOOR CONTROL PANEL INSIDE CABINET.

CONSULTANTS:			CERTIFICATE OF AUTHORITY:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number	
STRUCTURAL ENGINEER: KPF CONSULTING ENGINEERS 1630 DES PERES ROAD, SUITE 100 ST. LOUIS, MO 63131 PHONE: (314) 835-0524			AUTOMATIC TRANSPORT: LERCH BATES INC. 8088 S LINCOLN STREET, SUITE 207 LITTLETON, CO 80122 PHONE: (720) 283-8182		HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 17867 SHREVEPORT, LA 71138-0867 PHONE: (318) 687-3771		TECHNOLOGY DETAILS		TENANT BUILDING		657-313D	
MECHANICAL/ELECTRICAL/PLUMBING: KIWI ENGINEERING CONSULTANTS 415 SUMNER DRIVE, SUITE 104 ST. LOUIS, MO 63143 PHONE: (314) 645-1132			ESTIMATING: KIWI ENGINEERING CONSULTANTS 257 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63005 PHONE: (314) 991-2633		IRRIGATION CONSULTANTS: IRM 9502 BANYON TREE ST. LOUIS, MO 63103 PHONE: (318) 843-1481		Approved: Project Director		Location JEFFERSON BARRACKS DIVISION		Building Number 56	
#1 April 4, 2013 Amendment 4							29 OCTOBER 2012		Checked DARHAR		Drawn KEIEVE	
											TN300	
											Dwg. 126 of 153	



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