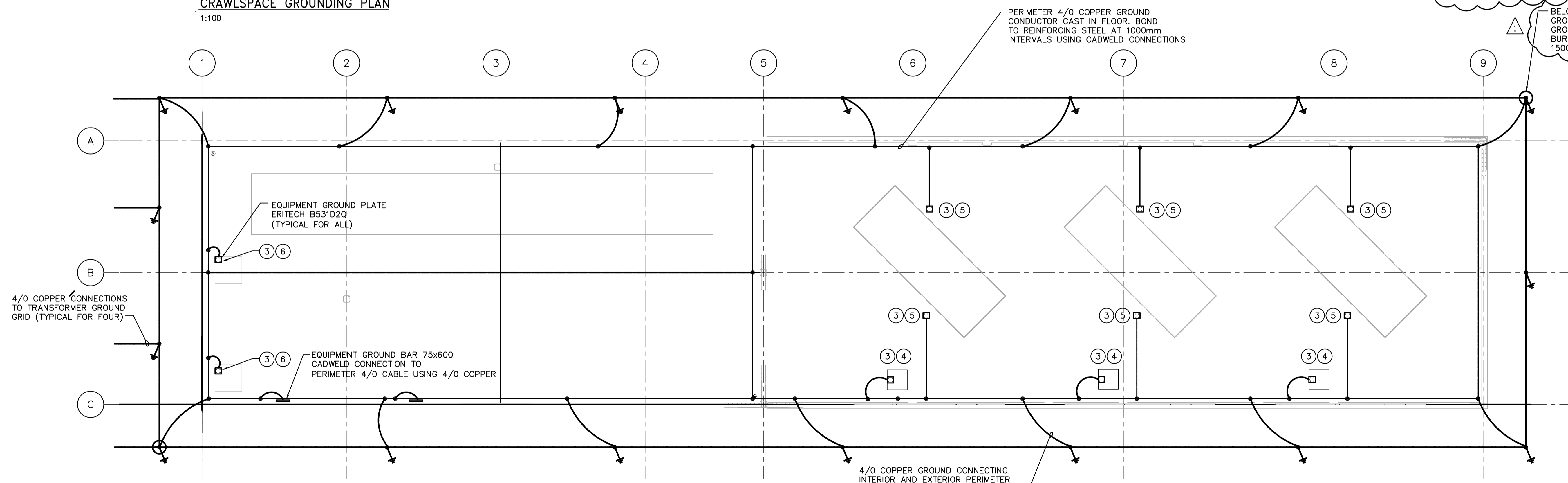


CRAWLSPACE GROUNDING PLAN
1:100

- DRAWING NOTES**
- ① CONNECT SWITCHGEAR SWGR-E100A AND SWGR-E100B AT BOTH ENDS TO EQUIPMENT GROUND BARS USING 4/0 COPPER AND TWO HOLE LUGS.
 - ② INSTALL 4/0 TIN PLATED COPPER GROUND CABLES IN ALL ABLE TRAYS. BOND EACH TRAY SECTION TO CABLE. BOND CABLE TO MINIMUM TWO EQUIPMENT GROUND BARS.
 - ③ CONNECT EQUIPMENT GROUND PLATES TO PERIMETER GROUND CONDUCTOR AND REINFORCING STEEL USING 4/0 COPPER AND CADWELD CONNECTIONS.
 - ④ GROUND NEUTRAL GROUND RESISTOR (NGR) TO EQUIPMENT GROUNDPLATE USING 4/0 COPPER CABLE c/w TWO HOLE COPPER LUGS.
 - ⑤ BOND GENERATOR FRAME TO EQUIPMENT GROUND PLATE USING 4/0 COPPER CABLE c/w TWO HOLE COPPER LUGS.
 - ⑥ GROUND TRANSFORMER NEUTRAL TO EQUIPMENT GROUND PLATE USING 4/0 COPPER CABLE c/w TWO HOLE COPPER LUGS.
 - ⑦ PROVIDE BONDING/GROUNDING IN ACCORDANCE WITH THE MANITOBA ELECTRICAL CODE FOR ALL EQUIPMENT NOT SHOWN.
 - ⑧ ALL METAL BODIES WITHIN ELECTRICAL BUILDING SHALL BE BONDED IN ACCORDANCE WITH ALL APPLICABLE CODES.



MAIN FLOOR GROUNDING PLAN
1:100

<p>Certificate of Authorization Earth Tech Canada Inc. No. 730 Expiry: April 30, 2007</p>	B.M. ELEV.	<p>Frederickson Cooper ARCHITECTS</p>	<p>A Type International Ltd. Company</p>	ENGINEER'S SEAL	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>	
				DESIGNED BY: BLM		CHECKED BY: PS
		DRAWN BY: ERC	APPROVED BY: AHL	2006/08/30		WATER TREATMENT PLANT STANDBY POWER GENERATOR GENERATOR BUILDING
		SCALE: AS SHOWN	RELEASED FOR CONSTRUCTION BY: R. SOROKOWSKI	CONSULTANT DRAWING NO. WG-E0103		CITY FILE NUMBER SHEET OF CITY DRAWING NUMBER 1-0601G-A-E0103-001-010
01 498-2006 ADDENDUM 3 06/09/29 ERC					ELECTRICAL CRAWLSPACE AND MAIN FLOOR GROUNDING PLANS	
00 ISSUED FOR TENDER 06/08/30 ERC						
NO. REVISIONS	DATE	BY	DATE	DATE		
			2006/07/24	2006/08/30		