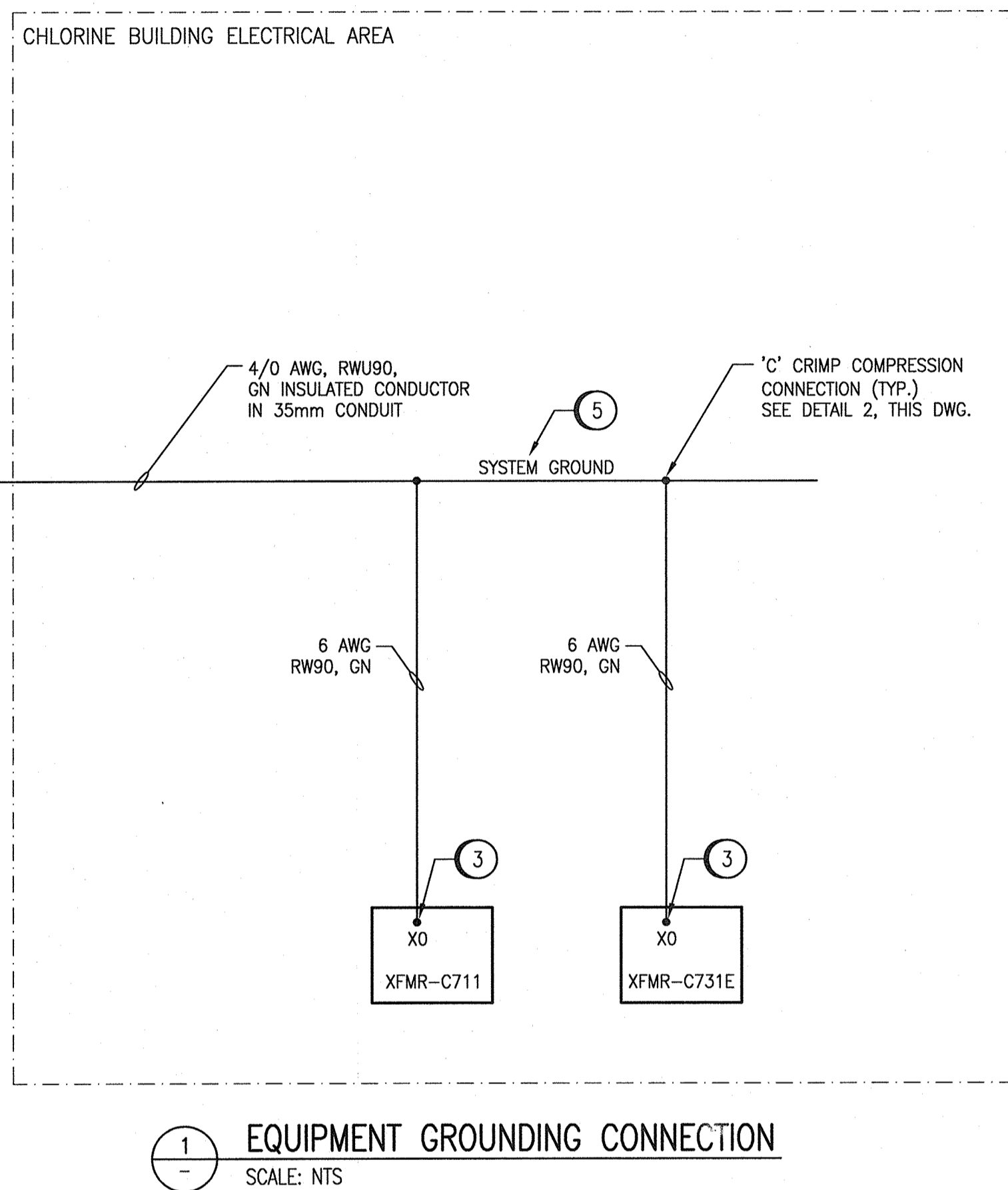
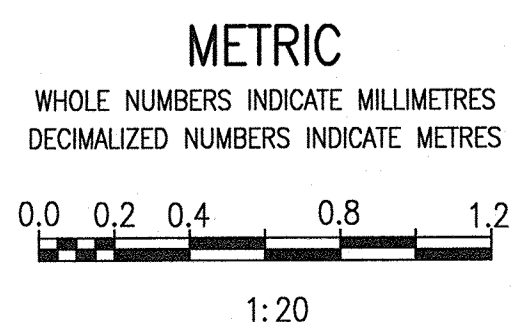


CHLORINE BUILDING - ELECTRICAL PLAN LAYOUT (AT GALLERY LEVEL)
SCALE: 1 : 20

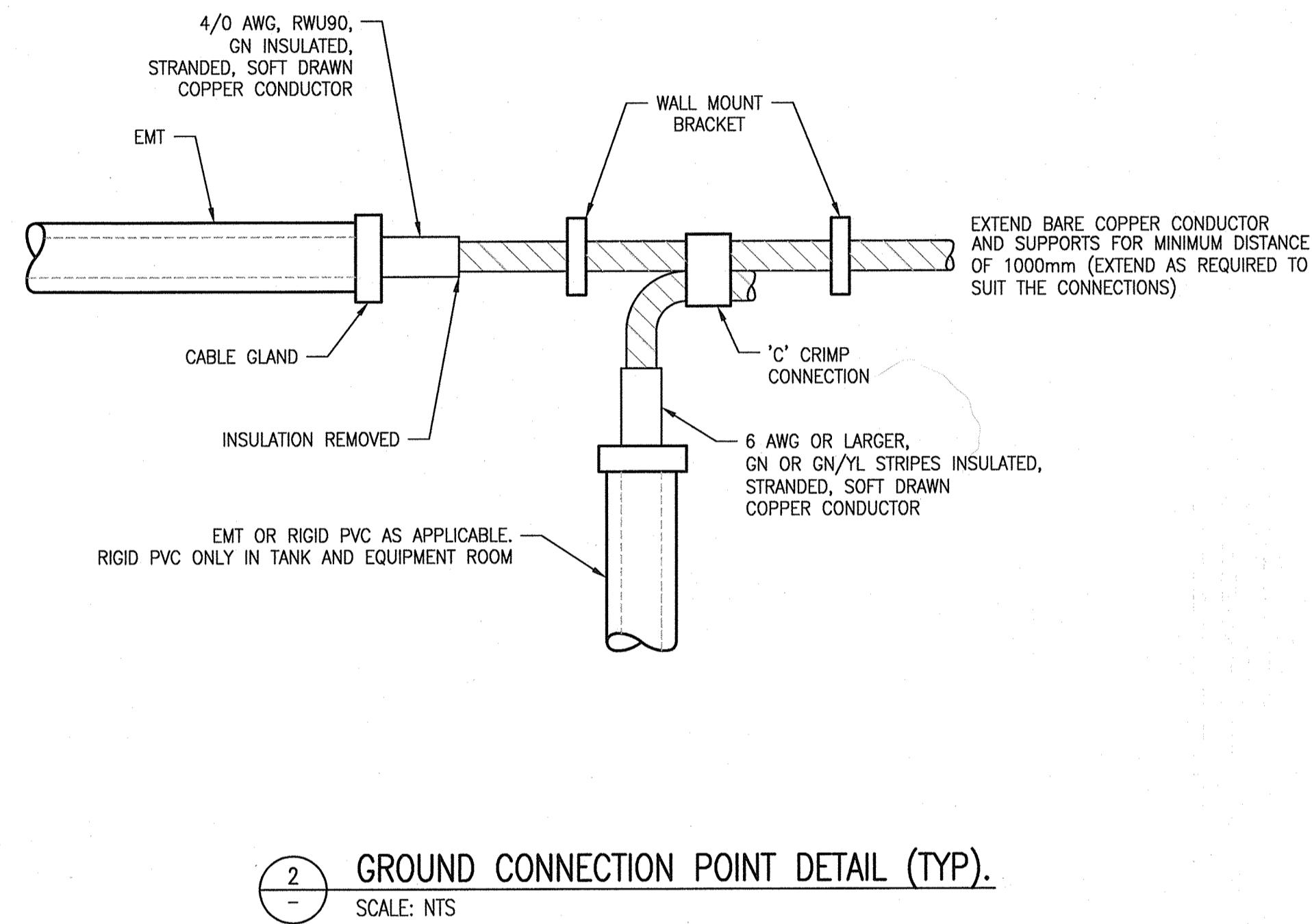
NOTES:

1. THIS DRAWING SUPERCEDES PART OF DRAWING Q-MCP-186.
2. SPACE FOR NEW EQUIPMENT IS LIMITED. ENSURE EQUIPMENT PROVIDED FITS IN AVAILABLE SPACE AND MEETS APPLICABLE CODES AND STANDARDS.
3. ALL EQUIPMENT ARE NEW UNLESS SPECIFICALLY STATED OTHERWISE.

1-0640C-E0012	ELECTRICAL - HAZARDOUS LOCATION, CHLORINE BLDG GROUND LEVEL
1-0640M-E0045	ELECTRICAL GROUNDING LAYOUT, MAIN FLOOR PLAN
1-0640M-E0043	ELECTRICAL GROUNDING, INSTALLATION DETAILS
1-0640C-E0007	ELECTRICAL EQUIPMENT PLAN, CHLORINE BUILDING
1-0640C-E0005	PANEL LAYOUT, MCC-C710/MCC-C720E LOCATION PLAN
1-0640C-E0003	ELECTRICAL SINGLE LINE DIAGRAM MCC-C710/MCC-C720E
DRAWING NUMBER	REFERENCE DRAWINGS



1 EQUIPMENT GROUNDING CONNECTION
SCALE: NTS



2 GROUND CONNECTION POINT DETAIL (TYP.)
SCALE: NTS

CONSTRUCTION NOTES:

- 1 NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN. REFER TO DRAWING 1-0640C-E0005 FOR COMPLETE LAYOUT.
- 2 SYSTEM GROUND CONDUCTOR TO BE MOUNTED ON THE WALL AT APPROXIMATELY 2500MM ABOVE FLOOR. SEE DETAIL 1 AND 2 ON THIS SHEET FOR EQUIPMENT GROUNDING CONNECTION.
- 3 PROVIDE GROUND CONNECTION FROM SYSTEM GROUND TO NEW TRANSFORMER'S X0 TERMINAL.
- 4 PROVIDE THREE RUNS OF 4/0 BONDING CABLES IN SEPARATE CONDUITS FROM PERIMETER GROUND AT MAIN PUMPHOUSE TO CHLORINE BUILDING MCC.
- 5 PROVIDE LAMACOID TAG ON WALL, ABOVE THE GROUND CONDUCTORS INDICATING "SYSTEM GROUND".

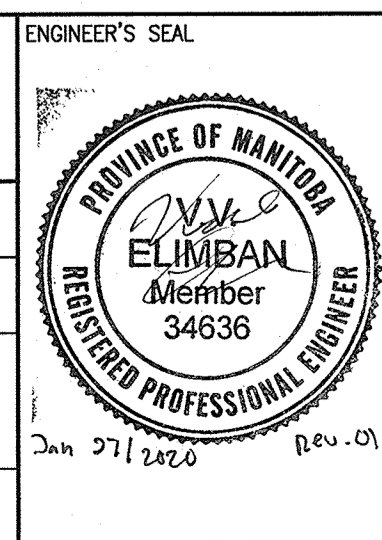
GENERAL NOTES:

1. CONNECTIONS TO PERIMETER GROUNDING CONDUCTORS SHALL BE 'C' CRIMP PRESSURE CONNECTION OR EXOTHERMIC WELD. ALL COMPRESSION CONNECTIONS SHALL UTILIZE PENETROX JOINT COMPOUND.
2. ALL GROUNDING CONDUCTOR SHALL BE STRANDED, SOFT DRAWN COPPER, UNLESS NOTED OTHERWISE.
3. REFER TO SPECIFICATION 26 05 34 FOR CONDUIT TYPE.
4. ALL WIRES/CABLES SHALL BE RUN IN CONDUIT. SIZE CONDUITS IN ACCORDANCE WITH THE CEC.
5. NOT ALL BOND CONNECTION ARE SHOWN. PERFORM AS A MINIMUM BONDING IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

LEGEND:

- GROUNDING CONDUCTOR (ABOVE GRADE / INSIDE OF BUILDING)
- EQUIPMENT GROUND CONNECTION

		SNC-LAVALIN INC. 148 Victoria Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY:	V. ELIMBAN	CHECKED BY:	K. SAPIAK
DRAWN BY:	J. GRACASIN	APPROVED BY:	D. BECKER
SCALE:	AS SHOWN	ISSUED FOR CONSTRUCTION BY:	A. WEISS
DATE:	2019/08/28	DATE:	2019/10/18
CONSULTANT NO.:			
NO.	REVISIONS	DATE	DESIGN CHECK
01	ISSUED FOR ADDENDUM 5	2020/01/27	VE VE
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE KS



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
ELECTRICAL GROUNDING DETAILS
CHLORINE BUILDING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0640C-E0011	001	01	A1