1 GROUNDING RISER DIAGRAM
SCALE:NTS

GENERAL NOTES:

1. THE GROUNDING RISER DIAGRAM REPRESENTS THE MINIMUM GROUNDING AND BONDING REQUIREMENTS. ADDITIONAL GROUNDING AND BONDING HARDWARE ARE TO BE PROVIDED AS REQUIRED TO MEET CEC REQUIREMENTS.
2. ALL GROUNDING/BONDING WIRES AND COMPRESSION CONNECTORS SHOWN ON THIS DRAWING ARE NEW AND ARE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES NEUTRAL CABLING BETWEEN UTILITY TRANSFORMER AND MCC-L71.

KEYNOTES:

1. CONNECTION OF BONDED NEUTRAL GENERATORS SHALL NOT BE PERMITTED. ONLY UNBONDED TEMPORARY GENERATORS SHALL BE CONNECTED TO JB-L72.

2 MCC GROUNDING CONNECTIONS
SCALE:NTS

4 GROUND ROD WITH GROUND WELL
SCALE:NTS

5 GROUND CONDUCTOR TEE
SCALE:NTS

6 GROUND CONDUCTOR SPLICE
SCALE:NTS

3 GROUND BUS DETAIL AND SECTION
SCALE:NTS

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	–	–
9	–	–
8	–	–
7	–	–
6	–	–
5	–	–
4	–	–
3	–	–
2	1-0162L-E0003-001	SINGLE LINE DIAGRAM
1	1-0162L-E0020-001	ELECTRICAL SITE PLAN

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YYYYMMDD)	BY
0	ISSUED FOR CONSTRUCTION	2023 03 24	DDW

KGS GROUP

DESIGNED BY	A. NIRMAL	CHECKED BY	DDW
DRAWN BY	R. GASPAR	APPROVED BY	DDW
SCALE: HORIZONTAL	NTS	RELEASED FOR CONSTRUCTION	
VERTICAL	NTS		
DATE	2022/07/14	DATE	

PLOT DATE: 2023 03 23

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D. WILSON
Member
22552
2023-03-23
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
22-0107-004-E09.01

BID OPPORTUNITY: 864-2022

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
ELECTRICAL
GROUNDING INSTALLATION DETAILS

CITY DRAWING NUMBER 1-0162L-E0009-001
SHEET 60 OF 109

FILE PATH: P:\Projects\2022\22-0107-004\Dwg\Elec\
FILE NAME: 1-0162L-E0009-001.dwg