GENERAL NOTES:

1. GRAYED ITEMS DENOTE EXISTING OR NOT INCLUDED WITHIN THE SCOPE OF WORK.

BREAKER PROTECTION SETTINGS									
CIRCUIT BREAKER	MODEL	TRIP UNIT	FRAME	SENSOR TRIP UNIT	LTPY (Ir)	LTD (tr)	STPU (Isd)	STD (tsd)	INST (Ii)
MCC–L71.MCB	POWERPACT J SERIES	MICROLOGIC 5.2A (AMMETER)	250A						
MCC–L71.CB–L72	POWERPACT J SERIES	MICROLOGIC 3.2S	250A						
MCC–L71.CB–L01	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC–L71.CB–L02	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC–L71.CB–L03	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC–L71.CB–L61	POWERPACT H SERIES	THERMAL–MAGNETIC	150A						
MCC–L71.CB–L63	POWERPACT H SERIES	THERMAL–MAGNETIC	150A						
MCC–L71.CB–L64,L65	POWERPACT H SERIES	THERMAL–MAGNETIC	150A						
MCC–L71.CB–L73	POWERPACT H SERIES	THERMAL–MAGNETIC	150A						

A — SINGLE LINE DIAGRAM
SCALE:NTS

LEGEND:

- PM — MULTIFUNCTION POWER METER
- PLC — PLC CONNECTION

KEYNOTES:

1. EXISTING POLE MOUNTED FUSES AND TRANSFORMER – BY MANITOBA HYDRO
2. MANITOBA HYDRO METER ON THE EXTERIOR WALL OF SUPERSTRUCTURE. CONTRACTOR SHALL SUPPLY SEVEN–JAW METER BASE C/W INSULATED NEUTRAL BLOCK AND TERMINATE CONDUCTORS TO METER BASE. MANITOBA HYDRO WILL SUPPLY METER.
3. PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE. ALL MCC BREAKERS SHALL BE 14KAIC RATED AT 600V.
4. MCC SUPPLIER TO PROVIDE AND INSTALL CONTROL TRANSFORMER FOR POWERING DIGITAL TRIP UNIT.
5. METERING CURRENT TRANSFORMERS ARE TO BE LOCATED OUTSIDE OF THE SERVICE ENTRANCE COMPARTMENT FOR CUSTOMER ACCESS.

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	–	–
9	–	–
8	–	–
7	–	–
6	–	–
5	–	–
4	–	–
3	–	–
2	1–0162L–E0010–001	MCC ELEVATION AND DETAILS
1	1–0162L–E0009–001	GROUNDING INSTALLATION DETAILS

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

NO.	REVISIONS	DATE (YYYY/MM/DD)	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, VERTICAL NTS
RELEASED FOR CONSTRUCTION
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–E03.01

BID OPPORTUNITY: 864-2022

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT STATION UPGRADES
2022 UPGRADES
ELECTRICAL
SINGLE LINE DIAGRAM

CITY DRAWING NUMBER: 1–0162L–E0003–001
SHEET 54 OF 109

FILE PATH: P:\Projects\2022\22-0107-004\Dwg\Elec\
FILE NAME: 1-0162L-E0003-001.dwg