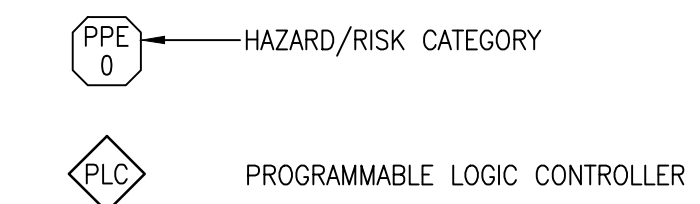


**CONSTRUCTION NOTES**

- 1 REPLACE INCOMING SERVICE CABLE BACK TO THE CUSTOMER-OWNED POLE. PROVIDE NEW WEATHERHEAD AND CRIMPS AS REQUIRED. COORDINATE WITH MANITOBA HYDRO TO PROVIDE A SHUTDOWN OF THE ELECTRICAL SUPPLY.
- 2 PROVIDE AND INSTALL NEW NEMA TYPE 3R, SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH.
- 3 PROVIDE AND INSTALL NEW UTILITY METERING SOCKET. COORDINATE WITH MANITOBA HYDRO FOR INSTALLATION OF METER.
- 4 PROVIDE AND INSTALL NEW 600V MOTOR CONTROL CENTRE.
- 5 PROVIDE AND INSTALL 600V STANDBY NATURAL GAS GENERATOR. ENGINE TO BE CONTINUOUSLY RATED FOR 130 KW. PROVIDE OVERSIZED ALTERNATOR RATED FOR MINIMUM 175 KW (200 KW ACCEPTABLE).
- 6 PROVIDE AND INSTALL NEW 600V, 200A, 3 PH, 4 WIRE TRANSFER SWITCH.
- 7 PROVIDE AND INSTALL NEW MAIN FLOOR DUCT HEATER.
- 8 PROVIDE AND INSTALL NEW WET WELL SUPPLY FAN.
- 9 PROVIDE AND INSTALL NEW WET WELL DUCT HEATER.
- 10 PROVIDE AND INSTALL NEW WET WELL EXHAUST FAN.
- 11 RECONNECT TO EXISTING ROOF EXHAUST FAN.
- 12 PROVIDE AND INSTALL NEW MAIN FLOOR UNIT HEATER.
- 13 PROVIDE AND INSTALL NEW UNDERPASS PUMP COMPLETE WITH NEW MOTOR.
- 14 REINSTALL EXISTING 600:120/240V TRANSFORMER.
- 15 PROVIDE AND INSTALL NEW 120/240V PANELBOARD.

**LEGEND:**



**NOTES:**

1. GENERATOR MANUFACTURER TO DETERMINE GENERATOR BREAKER RATING.
2. CONTRACTOR TO PROVIDE APPROPRIATELY RATED CABLE (C-U72-2) DOWNSTREAM OF GENERATOR.



00	ISSUED FOR TENDER, BID OPP. 475-2018	2018/05/09	BC	PP
NO.	REVISIONS	DATE	DESIGN	CHECK

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. CLEVEN	CHECKED BY: P. PANUFNIK
DRAWN BY: B. CLEVEN	APPROVED BY: B. CLEVEN
SCALE: NTS	ISSUED FOR CONSTRUCTION
DATE: 2018/01/10	BY:
CONSULTANT NO.:	DATE:

ENGINEER'S SEAL  
**PRELIMINARY**  
 NOT TO BE  
 USED FOR  
 CONSTRUCTION

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

METRO ROUTE 20 UNDERPASS PUMPING STATION  
 2018 UPGRADES  
 ELECTRICAL SINGLE LINE DIAGRAM

CITY DRAWING NUMBER: 1-0309U-E0001  
 SHEET: 001  
 REV: 00  
 SIZE: A1