



**ELECTRICAL PLAN - FLOOD STATION**  
SCALE: 1 : 20

**DEMOLITION NOTES:**

- (A) DEMOLISH EXISTING MOTOR CIRCUIT PROTECTORS ASSOCIATED WITH THE FLOOD PUMPS.
- (B) DEMOLISH EXISTING SPLITTER.
- (C) DEMOLISH EXISTING 120/240V PANELBOARD.
- (D) DEMOLISH EXISTING 15 kVA TRANSFORMER.
- (E) DEMOLISH EXISTING FUSED DISCONNECT SWITCH.
- (F) REMOVE EXISTING CONDUIT FOR TRANSFORMER VAULT.
- (G) DEMOLISH EXISTING MOTOR STARTERS AND TURN OVER TO THE CITY.
- (H) DEMOLISH EXISTING EXHAUST FAN AND SUPPLY FAN FUSIBLE DISCONNECT SWITCHES AND STARTER PANELS.
- (I) DEMOLISH EXISTING 600V POWER FAIL MONITORING PANEL.
- (J) DEMOLISH ALL EXISTING WIRING AND CONDUIT ASSOCIATED WITH THE DEMOLISHED EQUIPMENT.

**INSTALLATION NOTES:**

- (1) FIRE STOP AND SEAL ALL OPENINGS BETWEEN ELECTRICAL ROOM AND FLOOD STATION.
- (2) INSTALL NEW JUNCTION BOX, JB-F11, IN PLACE OF EXISTING 120/240V PANELBOARD TO FACILITATE WIRING TO EXISTING LOADS. CONNECT EXISTING LOADS.
- (3) INSTALL HAZARDOUS RATED CABLE SEAL ON ALL CABLES TO THE ELECTRICAL ROOM.
- (4) EXISTING RTU PANEL WILL BE CONVERTED TO A TERMINATION PANEL. CONVERSION TO BE DONE BY THE CITY.
- (5) SUPPLY AND INSTALL REMOTE SLOW/OFF/FAST OPERATOR STATION FOR SF-F1.

**LEGEND:**

- DEMOLISH
- NEW WORK
- EXISTING

**CODE ANALYSIS:**

1. THE ELECTRICAL EQUIPMENT IN THIS SPACE IS CURRENTLY ELECTRICALLY UNCLASSIFIED. HOWEVER, CURRENT STANDARDS SUCH AS NFPA 820 WOULD REQUIRE EITHER CONTINUOUS VENTILATION OR ELECTRICAL CLASSIFICATION DUE TO THE WASTEWATER WET WELL BELOW, WITH ACCESS HATCHES FROM THE MAIN FLOOR.
2. THIS PROJECT WILL REMOVE ELECTRICAL EQUIPMENT FROM THIS SPACE AND ALL NEW WIRING WILL BE IN ACCORDANCE WITH CLASS 1, ZONE 2, GROUP IIA HAZARDOUS LOCATION REQUIREMENTS. HOWEVER, EXISTING (120/208V) ELECTRICAL EQUIPMENT SUCH AS LIGHTING, RECEPTACLES, AND DAMPER ACTUATORS WILL REMAIN AND ARE UNCLASSIFIED.
3. IT REMAINS THE CITY'S RESPONSIBILITY TO ADDRESS THE VENTILATION OR COMPLETE ELECTRICAL CLASSIFICATION OF THE SPACE IN THE FUTURE.
4. THIS MAIN FLOOR SPACE IS NOT CLASSIFIED AS A CATEGORY 1 OR CATEGORY 2 SPACE AS THE CONDITION OF THE EXISTING EQUIPMENT HAS DEMONSTRATED THAT MOISTURE AND CORROSION ARE NOT SIGNIFICANT ISSUES.
5. THE CITY WILL IMPROVE THE SEALS ON THE ACCESS HATCHES FROM THE MAIN FLOOR TO THE WET WELL, PRIOR TO COMPLETION OF THIS PROJECT.

1-0157L-E0005	ELECTRICAL SCHEDULES
DRAWING NUMBER	REFERENCE DRAWINGS

1:20



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP. 774-2011	2011/11/10	VE	CJR

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SCALE: 1:20	RELEASED FOR CONSTRUCTION BY: V. JEANCART DATE: 2011/05/17
DATE: 2011/05/17	DATE: 2011/11/15
CONSULTANT NO.: 505581-0000-47DD-0104	

ENGINEER'S SEAL
ORIGINAL DRAWING SEALED BY: C. J. REIMER SNC-LAVALIN INC. MEMBER #21968 2011/11/15 REV. 00

 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
MAGER DRIVE FLOOD PUMPING STATION			
ELECTRICAL AND LIGHTING PLAN FLOOD STATION			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0157F-E0002	001	00	A1