



**LEGEND:**  
 ——— EXISTING  
 - - - NEW WORK  
 - - - DEMOLITION

**DEMOLITION NOTES:**

- A DEMOLISH EXISTING SPLITTER SPL-B1, FDS-AC-B1, FDS-OD-B1, FDS-AHU-B10 AND CB-B10. REFER TO DWG. 1-0640B-E0002 FOR LAYOUT. DWG. DEMOLITION.
- B DEMOLISH EXISTING SPLITTER SPL-B2E.
- C DEMOLISH EXISTING FUSED DISCONNECT FDS-B3E AND ASSOCIATED CABLING/CONDUIT.
- D DEMOLISH SPLITTER SPL-B3E AND ASSOCIATED CABLING/CONDUIT.
- E DEMOLISH EXISTING GENERATOR EXHAUST FAN MOTOR STARTERS AND ASSOCIATED CABLING/CONDUIT (MS-EF-G1, MS-EF-G2, MS-EF-G3, MS-EF-G4).
- F DEMOLISH EXISTING 60A FUSED DISCONNECT FOR GARAGE LOADS. DEMOLISH EXISTING CABLING AND CONDUIT FROM SPLITTER SP-1 TO FUSES. FUSED DISCONNECT LOAD SIDE CABLES TO REMAIN.

**CONSTRUCTION NOTES:**

- 1 REPLACE EXISTING SPLITTER SPL-B1 WITH NEW 600V, 400A, 3Ø, 3W, SQUARE D TYPE HCN DISTRIBUTION PANEL, DP-B701 C/W WITH BRANCH BEAKER AS INDICATED ON DRAWINGS.
- 2 PROVIDE NEW CABLES, RE-WIRE AND RECONNECT EXISTING EQUIPMENT/LOADS TO THE NEW DISTRIBUTION PANEL, DP-B701.
- 3 FEED FROM CB-XFMR-B40E TO NEW MCC-G766.
- 4 REPLACE BREAKER CB-PNL-B10 WITH A NEW 250A, 2P BREAKER. PROVIDE BREAKER TYPE AND MOUNTING KIT SUITABLE FOR EXISTING PANEL.
- 5 GENERATOR EXHAUST FANS TO REMAIN AND BE RE-FED FROM NEW MCC-G766. REFER TO DWG 1-0640B-E0006.
- 6 REUTILIZE EXISTING TECK90 CABLE. EXTEND CABLING AS REQUIRED TO REACH SOURCE PANEL.

**PROTECTION SETTINGS (SEE GENERAL NOTE 4)**

ID	MANUFACTURER & MODEL	SETTINGS
CB-B10	SCHNEIDER ELECTRIC POWERPACT H FRAME, MICROLOGIC 3.2	
CB-B20	SCHNEIDER ELECTRIC POWERPACT H FRAME, MICROLOGIC 3.2	Ir = 110A, I <sub>r</sub> = 16 SEC, I <sub>i</sub> = 6 (900A)
CB-B30	SCHNEIDER ELECTRIC POWERPACT H FRAME, MICROLOGIC 3.2	
CB-PNL-B10	WESTINGHOUSE KD3250	I = 5 (1250A)
CB-PNL-B20	WESTINGHOUSE KA3225	I = 6 (1350A)
CB-PNL-B30	WESTINGHOUSE KA3225	I = 6 (1350A)

**GENERAL NOTES:**

- THIS DRAWING CONTAINS UNVERIFIED INFORMATION FROM EXISTING DOCUMENTATION.
- ARC FLASH VALUES ARE BASED ON THE PROTECTION SETTINGS SPECIFIED ON THIS DRAWING.
- NEW WORK SHOWN MUST BE COMPLETED PRIOR TO APPLYING THE ARC FLASH LABELS.
- THE PROTECTION SETTINGS SPECIFIED ON THIS DRAWING WERE CHOSEN TO COORDINATE WITH THE EXISTING UPSTREAM BREAKERS AND FUSES. HOWEVER, THESE PROTECTION SETTINGS WILL NEED TO BE RE-EVALUATED IF REPLACEMENT OF THE UPSTREAM DISTRIBUTION IS PERFORMED.
- CLOUDED PORTIONS OF THIS DRAWING INDICATE WORK TO BE COMPLETED - EITHER REMOVALS OR ADDITION AS INDICATED. REFER TO DEMOLITION AND CONSTRUCTION NOTES.



DRAWING NUMBER	REFERENCE DRAWINGS
1-0640M-E0036	MCC-M730E SINGLE LINE DIAGRAM
1-0640M-E0034	MCC-M720 SINGLE LINE DIAGRAM
1-0640M-E0032	MCC-M710 SINGLE LINE DIAGRAM
1-0640M-E0004	800V DISTRIBUTION SINGLE LINE DIAGRAM
1-0640M-E0002	4160V DISTRIBUTION SINGLE LINE DIAGRAM
1-0640M-E0001	ELECTRICAL SINGLE LINE DIAGRAM LEGEND & DETAIL
1-0640B-E0006	MCC-G766 SINGLE LINE DIAGRAM
1-0640B-E0004	PANEL SCHEDULE AND LAYOUT - COLLECTION BUILDING DP-B701

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8500		ENGINEER'S SEAL V. ELIMBAN REGISTERED PROFESSIONAL ENGINEER	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT MCPHILLIPS PUMPING STATION ELECTRICAL SINGLE LINE DIAGRAM COLLECTIONS BUILDING
DESIGNED BY: V. ELIMBAN DRAWN BY: S. FUNK SCALE: NTS DATE: 2010/11/29 CONSULTANT NO.:	CHECKED BY: C. REIMER APPROVED BY: C. REIMER BY: A. WEISS DATE: 2019/10/18	ISSUED FOR TENDER AND CONSTRUCTION 2019/10/18 VE KS CHANGED SPL-B1 TO DP-B701 2017/08/01 BJC BJC UPDATED IDENTIFICATION AND CONTENT 2013/07/23 - CJR ISSUED FOR CITY USE 2011/11/01 BC CJR	CITY DRAWING NUMBER 1-0640B-E0001 SHEET 001 REV. 03 SIZE A1