



LEGEND:

- INTERNAL WIRING
- - - FIELD (EXTERNAL) WIRING
- △ MCC TERMINAL
- PUMP LOCAL CONTROL PANEL
- ⊠ MAIN CONTROL PANEL
- ⊞ SOFT START DEVICE TERMINAL
- ⊞ TRANSIENT VOLTAGE SUPPRESSOR
- ETM ELAPSED TIME METER
- A AMMETER

- SPECIFIC NOTES:**
- 1 RE-USE EXISTING EMERGENCY STOP SWITCH EMSTOP IN LCP-3. REFER TO DWG. 1-0660M-A0008 FOR WIRING CONNECTION DETAILS.
 - 2 RELAY FOR COMP, FLOOD AND HIGH TEMP CONTACTS ARE LOCATED IN LCP-3 PANEL.
 - 3 RELAY FOR REMOTE RUN COMMAND IS LOCATED IN MAIN CONTROL PANEL.
 - 4 MONITORING AND ADDITIONAL STATUS SIGNALS ARE AVAILABLE FOR FUTURE CONNECTION TO MAIN CONTROL PANEL.

- NOTES:**
1. COMPLETE ASSEMBLY TO HAVE A SHORT CIRCUIT CURRENT RATING OF 25KA OR HIGHER.
 2. GROUP AND SPACE 120VAC, 24VDC AND 4-20ma TERMINALS AND WIRING SEPARATELY.
 3. COLOUR CODE WIRING AS FOLLOWS:

POWER - 120VAC SUPPLY	BLACK
POWER - 120VAC NEUTRAL	WHITE
POWER - 24VDC SUPPLY (+)	BLUE
POWER - 24VDC COMMON (-, OR OVD)	BROWN
DISCRETE CONTROL - AC	RED
DISCRETE CONTROL - DC	BLUE
GROUND	GREEN



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	SB	BC

		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080
DESIGNED BY: B. BOGHOSIAN	CHECKED BY: B. CLEVEN	
DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER	
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS	
DATE: 2019/08/12	DATE: 2019/10/18	
CONSULTANT NO.:		

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 TACHE BOOSTER PUMPING STATION
 MOTOR STARTER SCHEMATIC
 PUMP PP-3
 CITY DRAWING NUMBER: 1-0660M-E0022
 SHEET: 001 REV: 00 SIZE: A1

1-0660M-E0022-002	CONNECTION DIAGRAM, PP-3
1-0660M-E0007	ELECTRICAL SINGLE LINE DIAGRAM, MCC-M710
DRAWING NUMBER	REFERENCE DRAWINGS