



**EXTERIOR PANEL VIEW**  
SCALE: 1 : 3

**INTERIOR PANEL VIEW**  
SCALE: 1 : 3

BILL OF MATERIALS				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE DOOR TYPE 12, WALL MOUNTED ENCLOSURE 762x610x152	HOFFMAN	A302406LP
2	1	BACKPAN	HOFFMAN	A30P24
3	1	PUSH BUTTON, FLUSH HEAD, N.O	ALLEN BRADLEY	800T-A2D1
4	1	PUSH BUTTON, EXTENDED HEAD, N.C	ALLEN BRADLEY	800T-B2D2
5	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
6	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
7	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
8	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
9	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	1004348
10	AS REQ'D	NARROW SLOT WIRING DUCT, 2.25"x3.12"	PANDUIT	-
11	AS REQ'D	NARROW SLOT WIRING DUCT, 1.75"x3.12"	PANDUIT	-
12	4	RELAY, 120 VAC, SPDT, LED, 10A	OMRON	G2R-1-SN 120 VAC(S)
13	4	RELAY BASE, DIN RAIL	OMRON	P2RF-05-S
14	1	RELAY, 120 VAC, 4PDT, LED, 10A	OMRON	LY4N-120 VAC
15	1	RELAY, BASE, 4PDT	OMRON	PTF14A-E
16	2	MULTI-FUNCTION HIGH PERFORMANCE TIMING RELAY	ALLEN BRADLEY	700-FSH3VU23
17	1	ALTERNATING RELAY, 120 VAC	TIME MARK	261-DXT-120
18	1	8-PIN SOCKET	TIME MARK	51x120
19	1	GROUND BAR, 8 TAP	ILSCO	D167-8
20	AS REQ'D	LAMACOIDS		
21	2	PILOT LIGHT, AMBER, 120 VAC, LED	ALLEN BRADLEY	800T-QH2A

**NOTES:**

- ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- EXTERNAL COMPONENTS ARE TO BE LABELLED AS SHOWN ON THE DRAWINGS.
- ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. THREE COPIES OF CERTIFIED TEST DOCUMENTATION ARE TO BE PROVIDED.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
- ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING PERMANENT MARKER OR LAMACOIDS.

1-0630M-E0061	AC-M902 MOTOR STARTER SCHEMATIC
1-0630M-E0060	AC-M901 MOTOR STARTER SCHEMATIC
DRAWING NUMBER	REFERENCE DRAWINGS



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP: 490-2012	2012/07/30	BJC	CJR

**SNC-LAVALIN INC.**  
148 Nature Park Way  
Winnipeg, MB, Canada R3P 0X7  
204-798-8080

DESIGNED BY: V. ELIMBAN  
DRAWN BY: M.J. PERSSON  
SCALE: 1:3  
DATE: 2012/03/28

CHECKED BY: C. REIMER  
APPROVED BY: C. REIMER  
RELEASED FOR CONSTRUCTION BY:  
DATE:

CONSULTANT NO.: 508955-0000-4800-0040

ENGINEER'S SEAL

**PRELIMINARY**  
NOT TO BE  
USED FOR  
CONSTRUCTION

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

MACLEAN WATER PUMPING STATION

PANEL LAYOUT  
LCP-M900  
INSTRUMENT AIR COMPRESSOR CONTROL PANEL

CITY DRAWING NUMBER: 1-0630M-A0040 SHEET REV. SIZE: 001 00 A1