

- 2 TIME DELAY RELAY
- 27 UNDERVOLTAGE RELAY
- 38 BEARING PROTECTIVE DEVICE
- 39 MECHANICAL CONDITION MONITOR (VIBRATION, ETC.)
- 43 MANUAL TRANSFER OR SELECTOR DEVICE
- 46 REVERSE PHASE OR PHASE-BALANCE CURRENT RELAY
- 49 MACHINE OR TRANSFORMER THERMAL RELAY
- 50 INSTANTANEOUS OVERCURRENT RELAY
- 51 AC TIME OVERCURRENT RELAY
- 50/51 COMBINATION INSTANTANEOUS / TIME OVERCURRENT RELAY
- 50G INSTANTANEOUS GROUND OVERCURRENT RELAY
- 51G AC TIME GROUND OVERCURRENT RELAY
- 50/51/50N COMBINATION INSTANTANEOUS / TIME OVERCURRENT WITH TIME GROUND OVERCURRENT RELAY
- 50/51N GROUND FAULT COMBINATION INSTANTANEOUS / TIME OVERCURRENT RELAY CONNECTED IN A RESIDUAL CT CIRCUIT
- 59 OVERVOLTAGE RELAY
- 66 MOTOR START LIMITER RELAY
- 74 ALARM RELAY
- 83 AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
- 86 LOCKOUT RELAY
- 86X AUXILIARY LOCKOUT RELAY
- A AMMETER
- AS AMMETER SELECTOR SWITCH
- CS CONTROL SWITCH

- CTD CAPACITIVE TRIP DEVICE
- K KEY INTERLOCK
- KW KILOWATT METER
- I INTERLOCK
- MF MULTIFUNCTION METER
- PF POWER FACTOR METER
- PLC PLC I/O POINT
- PM POWER METER
- RM REVENUE METER
- V VOLTMETER
- VS VOLTMETER SELECTOR SWITCH
- Σ SUMMATION DEVICE
- TD TIME DELAY

- CONTACTOR
- GENERATOR
- TRANSFER SWITCH
- CURRENT TRANSFORMER
- GROUND FAULT CURRENT TRANSFORMER
- SURGE ARRESTOR
- CIRCUIT BREAKER
- DISCONNECTING DEVICE / STAB
- FUSE
- GROUND CONNECTION
- MOTOR OVERLOAD
- CAPACITOR
- 52 AC CIRCUIT BREAKER
- LOCAL DISCONNECT SWITCH
- RECEPTACLE/PLUG
- POTENTIAL TRANSFORMER
- DISCONNECT SWITCH
- TRANSFORMER
- MOTOR
- PILOT LIGHT
- ELECTRIC HEATING COIL
- UNIT HEATER
- ARC FLASH HAZARD/RISK CATEGORY

DRAWING NUMBER	REFERENCE DRAWINGS
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NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR TENDER, BID OPP. 490-2012	2012/07/23	BJC	CJR
02	REVISED SYMBOLS	2012/01/30		CJR
01	REVISED DRAWING NUMBER	2008/02/13	AEO	
00	ISSUED FOR CITY USE	2007/08/28		Y.M

<b>SNC-LAVALIN</b>		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY:	EXISTING	CHECKED BY:	CJR
DRAWN BY:	CJR	APPROVED BY:	CJR
SCALE:	NTS	RELEASED FOR CONSTRUCTION BY:	
DATE:	2005/11/07	DATE:	
CONSULTANT NO.:	508955-0000-47DD-0001		

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

MACLEAN WATER PUMPING STATION ELECTRICAL SINGLE LINE DIAGRAM LEGEND & DETAILS			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0630M-E0001	001	03	A1