

- 2 TIME DELAY RELAY
- 11 MULTIFUNCTION DEVICE
- 26Q OIL TEMPERATURE SWITCH
- 27 UNDERVOLTAGE RELAY
- 27X AUXILIARY 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
- 51N GROUND TIME OVERCURRENT RELAY (RESIDUALLY CONNECTED)
- 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
- 63G GAS PRESSURE SWITCH
- 66 MOTOR START LIMITER RELAY
- 71Q OIL LEVEL SWITCH
- 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
- PFT POWER FACTOR TRANSMITTER
- PLC PLC I/O POINT
- DCS DCS I/O POINT
- PM POWER METER
- RM REVENUE METER
- V VOLTMETER
- VS VOLTMETER SELECTOR SWITCH
- VT VOLTAGE TRANSMITTER
- 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

- RECTIFIER
- INVERTER
- BATTERY CHARGER
- SOLID STATE / STATIC SWITCH
- BATTERY

DRAWING NUMBER	REFERENCE DRAWINGS
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00	ISSUED FOR TENDER, BID OPP. 209-2011	2011/03/11	TMC	CJR
NO.	REVISIONS	DATE	DESIGN	CHECK

SNC-LAVALIN INC.
 148 Nature Park Way
 Winnipeg, MB, Canada R3P 0X7
 204-786-8080

DESIGNED BY: T. CHURCH
 DRAWN BY: S. COATES
 SCALE: NTS
 DATE: 2009/11/19

CHECKED BY: C. REIMER
 APPROVED BY: C. REIMER
 RELEASED FOR CONSTRUCTION BY: N. HARRINGTON
 DATE: 2011/03/11

CONSULTANT NO.: 112577-0106-47DD-0001

ENGINEER'S SEAL

ORIGINAL DRAWING
 SEALED BY:
 T. M. CHURCH
 SNC-LAVALIN
 MEMBER # 32682
 2011/03/25
 REV. 00

Winnipeg THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
 ESSENTIAL SYSTEM UPGRADES
 ELECTRICAL SINGLE LINE DIAGRAM
 LEGEND & DETAILS

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102A-E0006	001	00	A1