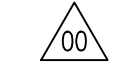
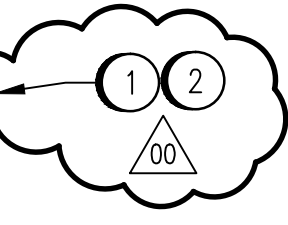


PANEL ID: PNL-A		AMPS: 225	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>			
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 10 KA		SURF. MOUNT FLUSH MOUNT <input checked="" type="checkbox"/>				
MFG / MODEL: EATON P1RL		INST. SETTINGS: N/A		TOP FED BOT. FED <input checked="" type="checkbox"/>						
MAIN BREAKER: NONE										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	DESCRIPTION	CCT.
1	LIGHTING, UPPER PUMP ROOM		15						EF-M691 (WAS FAN 11)	2A
3	LIGHTING, UPPER PUMP ROOM		15						EF-M687 & EF-M688 (WAS FAN 7 & FAN 8)	4
5	LIGHTING, UPPER PUMP ROOM		15						EF-M693 (WAS FAN13)	6A
7	LIGHTING, ELECTRICAL AND CONTROL ROOM		15						CONTROL ROOM WATER COOLER, PLUGS	8A
9	LIGHTING, UPPER PUMP ROOM	LKON	15						COOLING TOWER CHEMICAL PUMP, RECEP.TS.	10
11	LIGHTING, SERVICE AREA, WASHROOM	LKON	15						JOHNSON CONTROL RECEPTACLES MAIN LEVEL	12A
13	LIGHTING, CHLORINE ROOM	LKON	15						RECEPTACLES, PUMP LEVEL	14
15	LIGHTING, CHLORINE STORAGE	LKON	15						RECEPTACLES, MAIN LEVEL	16A
17	LIGHTING, CHLORINE WEIGHT SCALE	LKON	15						RECEPTACLES, DISCHARGE HEADER AREA	18A
19	LIGHTING, CHLORINE STORAGE		15						RECEPTACLES, PARKING LOT	20A
21	LIGHTING, MEZZANINE LEVEL		15						RECEPTACLES, PARKING LOT	22A
23	LIGHTING, CHLORINE STORAGE WEST W.		15						HCC-M667 (WAS HCP6)	24
25	LIGHTING, MEZZANINE LEVEL		15						WASHROOM HEATER	26
27	LIGHTING, AMMONIA ROOM		15						HPS LIGHTS, OUTSIDE WEST-WALL, QTY 4	28
29	LIGHTING, PUMP LEVEL, GEN. RM., BOT. WEST		15						HCC-M668 (WAS HCP7)	30
31	LIGHTING, PUMP LEVEL, MEZZANINE LEVEL	LKON	15						VESTIBULE HEATERS	32
33	LIGHTING, PUMP LEVEL S. VALVE PIT, OIL ROOM		15						HCC-M666 & HCC-M665 (WAS HCP5 & HCP16)	34
35	JOHNSON CONTROL PANEL	LKON	15						N & S STAIRWELLS	36
37	LIGHTS, PUMP LEVEL, WATER-TIGHT CHAMBER, VALVE PIT		15						P-22 BLOCK HEATER	38
39A	HOT WATER HEATER		15						SPARE	40A
39B			20						SPARE	40B
41A	EF-M685 & EF-M694 (WAS FAN 5 & FAN 14)	LKON	20						P-26 BLOCK HEATER	42
41B			15							
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	PHASE B: KVA	A	PHASE C: KVA	A	NOTE LEGEND:	
			AFCI	ARC FAULT CIRCUIT INTERRUPTOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	LKON	LOCKED ON BREAKER	LKOR	RED LOCKED ON BREAKER

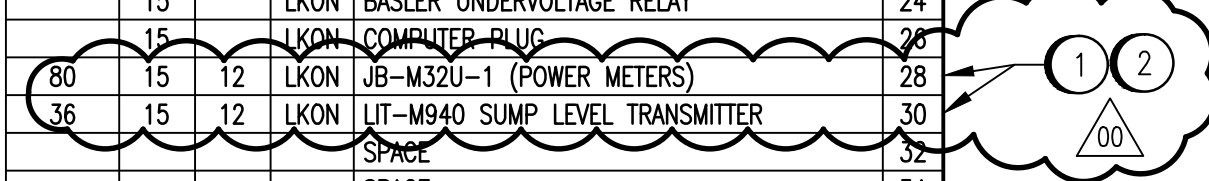
PANEL ID: PNL-M10		AMPS: 225	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input checked="" type="checkbox"/>			
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: MEZZANINE LEVEL - SOUTH		INTERRUPTING RATING: 10 KA		SURF. MOUNT FLUSH MOUNT <input type="checkbox"/>				
MFG / MODEL: SQUARE D		INST. SETTINGS: N/A		TOP FED BOT. FED <input type="checkbox"/>						
MAIN BREAKER: 100A										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	DESCRIPTION	CCT.
1	SPARE		15						SPARE	2
3	SPARE		15						SPARE	4
5	SPARE		15						SPARE	6
7	SPARE		15						SPARE	8
9	SPARE		15						SPARE	10
11	SPARE		15						SPARE	12
13	SPARE		15						SPARE	14
15	SPARE		15						SPARE	16
17	SPARE		15						SPARE	18
19	SPARE		15						SPARE	20
21	SPARE		15						SPARE	22
23	SPARE		15						SPARE	24
25	SPARE		15						SPARE	26
27	SPARE		15						SPARE	28
29	SPARE		15						SPARE	30
31	SPACE								SPACE	32
33	SPACE								SPACE	34
35	SPACE								SPACE	36
37	SPACE								SPACE	38
39	SPACE								SPACE	40
41	SPACE								SPACE	42
TOTAL CONNECTED LOAD:		0.0 KVA	PHASE A: 0.0 KVA	A	PHASE B: 0.0 KVA	A	PHASE C: 0.0 KVA	A	NOTE LEGEND:	
			AFCI	ARC FAULT CIRCUIT INTERRUPTOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	LKON	LOCKED ON BREAKER	LKOR	RED LOCKED ON BREAKER



PANEL ID: PNL-B		AMPS: 90	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>			
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 10 KA		SURF. MOUNT FLUSH MOUNT <input checked="" type="checkbox"/>				
MFG / MODEL: EATON P1RL		INST. SETTINGS: N/A		TOP FED BOT. FED <input checked="" type="checkbox"/>						
MAIN BREAKER: NONE										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	DESCRIPTION	CCT.
1	LIGHTING, UPPER PUMP ROOM	LKON	15						AMMONIA WEIGH SCALE	2
3	ELECTRICAL ROOM, LOBBY, EXT. N & W		15						LIGHTING, SOUTH STAIRWELL	4
5	LIGHTING, UPPER PUMP ROOM		15						CHLORINE EMERGENCY ISOLATION SYSTEM	6
7	CL2 EQUIP & SCALE ROOM, EXT. SOUTH (O/H DOOR)		15						LIGHTING, NORTH STAIRWELL	8
9	LIGHTING AMMONIA ROOM, INCL. EXT. DOOR		15						LKON OIL PUMP 26, RECEPTACLE	10
11	LIGHTING, CHLORINE STORAGE	LKON	15						TELEPHONE HORN	12
13	LIGHTING, MEZZANINE LEVEL	LKON	15						LKON OIL PUMP 22 RECEPTACLE	14
15	GAS ANALYZER	LKON	15						JOHNSON CONTROLS CCT	16
17	LIGHTING, PUMP LEVEL WEST		15						LKON RECEPTACLE FOR GEN. SERVICE	18
19	RECEPTACLE BESIDE REGULATOR HEATERS CHLORINE WEIGHT SCALE	LKON	15						SPARE	20
21	SUPPLY TO 2 CHLORINATORS		15						LKON WATER COOLER	22
23	CHLORINE RESIDUAL ANALYSERS	LKON	15						LKON LCP-M608 HEATER CONTROL PANEL	24
25	SUPPLY TO 2 CHLORINATORS	LKON	15						SPARE	26
27	AMMONIATORS (DISC.)	LKON	15						SPARE	28
29	AFTER COOLERS	LKON	15						SPARE	30
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	PHASE B: KVA	A	PHASE C: KVA	A	NOTE LEGEND:	
			AFCI	ARC FAULT CIRCUIT INTERRUPTOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	LKON	LOCKED ON BREAKER	LKOR	RED LOCKED ON BREAKER



PANEL ID: PNL-M32U		AMPS: 225	VOLTS: 120/240V	PHASE: 1 P	WIRE: 3	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input type="checkbox"/>			
DESCRIPTION: 120/240V UPS PANELBOARD (WAS PNL-E)		LOCATION: MEZZANINE LEVEL - NORTH		INTERRUPTING RATING: 10 KA		SURF. MOUNT FLUSH MOUNT <input type="checkbox"/>				
MFG / MODEL: SQUARE D QBL-342		INST. SETTINGS: N/A		TOP FED BOT. FED <input checked="" type="checkbox"/>						
MAIN BREAKER: NONE										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	DESCRIPTION	CCT.
1	CT 1 MCP EQUIPMENT	LKON	15						CT #2, P-26 EQUIPMENT	2
3	HOT STANDBY RADIO	LKON	15						P-26 DI/DO	4
5	MCP DI/DO	LKON	15						P-26 UTILITY	6
7	MCP UTILITY	LKON	15						P-26 BATTERY CHARGER	8
9	WORK STATIONS PRINTER	LKON	15						LKON 812 CHLORINATOR	10
11	P-21 EQUIPMENT	LKON	15						LKON 813 CHLORINATOR	12
13	P-21 DI/DO		15						LKON FT1 NORTH	14
15	P-21 UTILITY	LKON	15						FT1 SOUTH	16
17	P-22 EQUIPMENT		15						LKON CL2 VALVE	18
19	P-22 DI/DO		15						LKON CL2 DETECTOR	20
21	P-22 UTILITY		15						LKON 810 WT CL2 WEIGHT SCALE	22
23	P-22 SPARE	LKON	15						LKON BASLER UNDERVOLTAGE RELAY	24
25	P-23 EQUIPMENT	LKON	15						LKON COMPUTER PLUG	26
27	P-23 DI/DO	LKON	15						LKON JB-M32U-1 (POWER METERS)	28
29	SPARE		15						LKON UT-M940 SUMP LEVEL TRANSMITTER	30
31	P-23 UTILITY	LKON	15						SPACE	32
33	P-25 EQUIPMENT	LKON	15						SPACE	34
35	P-25 DI/DO	LKON	15						SPACE	36
37	P-25 UTILITY	LKON	15						SPACE	38
39	BURGLAR ALARM	LKON	15						SPACE	40
41	SPACE								SPACE	42
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	PHASE B: KVA	A	PHASE C: KVA	A	NOTE LEGEND:	
			AFCI	ARC FAULT CIRCUIT INTERRUPTOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	LKON	LOCKED ON BREAKER	LKOR	RED LOCKED ON BREAKER



CONSTRUCTION NOTES:

- 1 SUPPLY AND INSTALL NEW 15A CIRCUIT BREAKERS.
- 2 REVISE SCHEDULE ON PANEL DOOR.
- 3 REPLACE PANEL BOARD INTERIOR. CONFIRM ALL LOADS AND UPDATE PANEL SCHEDULE AND AS-BUILT MARK-UPS ACCORDINGLY.



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP. 490-2012	2012/07/23	BJC	CJR

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. CLEVEN	CHECKED BY: C. REIMER
DRAWN BY: M.J. PERSSON	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2012/03/07	DATE:
CONSULTANT NO.: 508955-0000-47DD-0042	

ENGINEER'S SEAL

PRELIMINARY
NOT TO BE
USED FOR
CONSTRUCTION

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MACLEAN WATER PUMPING STATION

PANELBOARD SCHEDULES

CITY DRAWING NUMBER: 1-0630M-E0042

SHEET: 001

REV: 00

SIZE: A1