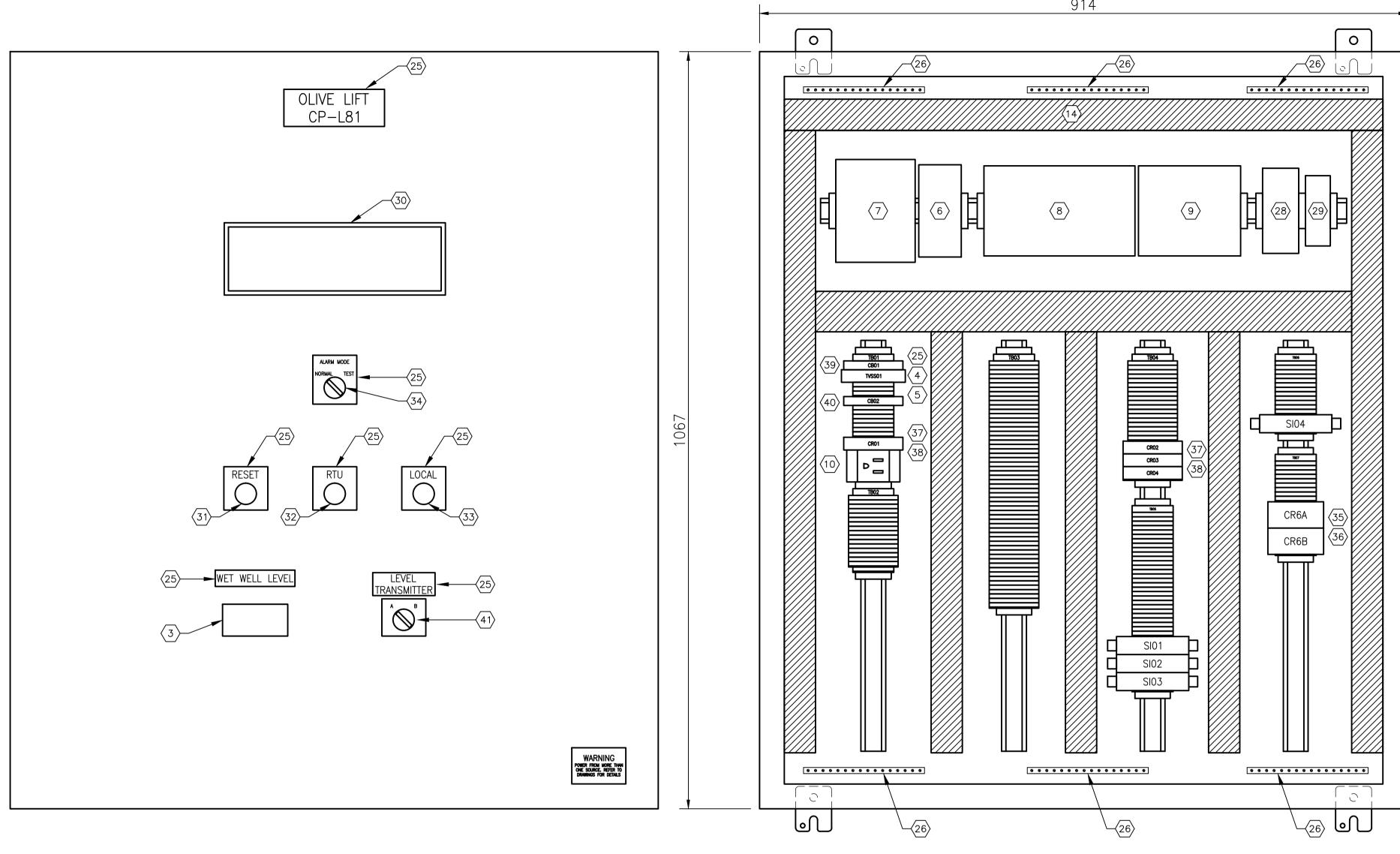
-0169L-A0008

DRAWING NUMBER



EXTERIOR PANEL VIEW

INTERIOR PANEL VIEW

SCALE: 1:4

NOTES:

- 1. WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- 2. ALL 120VAC POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.

SCALE: 1:4

- 3. ALL 24VDC POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- 4. ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- 5. ALL ANALOG TWISTED PAIR WIRING TO BE 18 AWG SHIELDED, WITH INSULATION RATED AT 300V.
- 6. EXTERNAL COMPONENTS ARE TO BE LABELLED AS SHOWN ON THE DRAWINGS.

ANNUNCIATOR PANEL LAMP LAYOUT

- 7. ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- 8. TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. THREE COPIES OF CERTIFIED TEST DOCUMENTATION ARE TO BE PROVIDED.
- 9. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- 10. PROVIDE WIRE BARREL FERULES FOR ALL WIRING, EXCEPT ON THE SIGNAL ISOLATORS WHERE TWO WIRES ARE REQUIRED ON ONE SIGNAL ISOLATOR TERMINAL.
- 11. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- 12. CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING COMPUTER-GENERATED ADHESIVE LABELS OR LAMACOIDS.

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1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A423610LP		
2	1	BACKPAN	HOFFMAN	A42P36		
3	1	PROCESS METER	PRECISION DIGITAL	PD6000-7R4		
4	1	SURGE ARRESTER MODULE, 120V	PHOENIX CONTACT	PT 2-PE/S-120AC-ST (2839334)		
5	1	SURGE ARRESTER BASE	PHOENIX CONTACT	PT-BE/FM (2839282)		
6	1	24VDC POWER SUPPLY/UPS	PHOENIX CONTACT	TRIO-UPS/1AC/24DC/5 (2866611)		
7	1	RECHARGEABLE BATTERY MODULE, 3.4Ah	PHOENIX CONTACT	QUINT-BAT/24DC/3.4Ah (2866349)		
8	1	SCADAPACK 357E RTU	SCHNEIDER ELECTRIC	TBUP357-EA55-AB20		
9	1	DISCRETE INPUT MODULE, 16 POINT, 24V	SCHNEIDER ELECTRIC	ELECTRIC 5404-24		
10	1	RECEPTACLE, 125V, 15A, DIN RAIL MOUNTED	PHOENIX CONTACT	SD-US/SC/LA/GY (2963860)		
11	4	SIGNAL ISOLATOR, 4-20MA INPUT, 4-20MA OUTPUT, 4 CHANNEL	MOORE INDUSTRIES	MIX/4X4-20mA/4X4-20mA/ 12-42DC/DIN		
12	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733		
13	AS REQ'D	NARROW SLOT WIRING DUCT, 2.25" x 3.12", GREY	PANDUIT	-		
14	AS REQ'D	NARROW SLOT WIRING DUCT, 3.25" x 3.12", GREY	PANDUIT	-		
15	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184		
16	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142		
17	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806		
18	AS REQ'D	KNIFE-DISCONNECT TERMINAL	PHOENIX CONTACT	3046139		
19	AS REQ'D	POTENTIAL-EARTH TERMINAL	PHOENIX CONTACT	3046207		
20	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141		
21	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442		
22	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL	PHOENIX CONTACT	3044720		
23	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE	PHOENIX CONTACT	3047293		
24	AS REQ'D	PLUG-IN BRIDGE	PHOENIX CONTACT	3030365		
25	AS REQ'D	LAMACOID, WHITE WITH BLACK TEXT	_	_		
26	6	GROUND BAR, 14 TAPS	ILSC0	D167-14		
27	1	LIGHTNING SURGE ARRESTER (SUPPLIED BY CITY)	PCTEL	MFB8353		
28	1	CELLULAR MODEM (SUPPLIED BY CITY)	SIXNET	BT-6801		
29	1	PSTN MODEM	PHOENIX CONTACT	PSI-DATA/FAX-MODEM/RS232 (2708203)		
30	1	ANNUNCIATOR PANEL	IDEC	SLC30N0310-DD2FB-A(1)G(5)R(15) S(1)		
			SCHNEIDER ELECTRIC	ZB4BA4		
31	1	PUSHBUTTON, 22mm, 1 N.O., RED	SCHNEIDER ELECTRIC	ZB4BZ009		
			SCHNEIDER ELECTRIC	ZBE101		
32	1	PUSHBUTTON, 22mm, 1 N.O., BLUE	SCHNEIDER ELECTRIC	XB4BA61		
			SCHNEIDER ELECTRIC	ZB4BA5		
33	1	PUSHBUTTON, 22mm, 1 N.C., YELLOW	SCHNEIDER ELECTRIC	ZB4BZ009		
			SCHNEIDER ELECTRIC	ZBE102		
34	1	SELECTOR SWITCH, 2 POS'N, MAINTAINED, 1 N.O., 1 N.C.	SCHNEIDER ELECTRIC	XB4BD25		
35	2	RELAY, 24VDC, 3PDT, LED	OMRON	LY3N-DC24		
36	2	RELAY BASE, 3PDT	OMRON	PTF11A		
37	1	RELAY, 24VDC, SPDT, LED, DIODE	OMRON	G2R-1-SND-AC120(S)		
38	1	RELAY BASE, SPDT	OMRON	P2RF-05		
39	1	MOULDED CASE CIRCUIT BREAKER, 10 AMP, DIN RAIL MOUNTED	PHOENIX CONTACT	TMC 1 F1 100 10,0A (0914167)		
40	1	MOULDED CASE CIRCUIT BREAKER, 5 AMP, DIN RAIL MOUNTED	PHOENIX CONTACT	TMC 1 F1 100 5,0A (0914138)		
			SCHNEIDER ELECTRIC	ZB5AD2		
		OFFICE OUT OF THE STATE OF THE	SCHNEIDER ELECTRIC	ZB5AZ009		
	1	SELECTOR SWITCH, 2 POS'N, MAINTAINED, 3 N.O., 2 N.C.	SCHNEIDER ELECTRIC	ZB5AZ902		
41		1 - 11·····	COLINEIDED ELECTRIC	7DE005 (0TV 0)		
41			SCHNEIDER ELECTRIC	ZBE205 (QTY 2)		

BILL OF MATERIAL

MANUFACTURER

CATALOG NUMBER

Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

			*))	SNC-LAVALIN INC. 148 Nature Park Way	ENGINEER S SEAL		
					SNC+LAVALIN	Winnipeg, MB, Canada R3P 0X7 204-786-8080	
						OUTOVED DV	PRELIMINARY
					DESIGNED BY: B. CLEVEN	CHECKED BY:	
					DRAWN BY:	APPROVED BY:	NOT TO BE
					Y. KONIG		USED FOR
					SCALE: 1:4	ISSUED FOR CONSTRUCTION	CONSTRUCTION
						BY:	CONSTRUCTION
					DATE: 2015/08/28	DATE:	
00	ISSUED FOR TENDER	2015/09/17	BJC	_	CONSULTANT NO.:		
NO.	REVISIONS	DATE	DESIGN	CHECK			

Winnipeg THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

OLIVE WASTEWATER PUMPING STATION
2015 UPGRADES
PANEL LAYOUT
CONTROL PANEL CP-L81

NO. REVISIONS

DATE DESIGN CHECK

1-0169L-A0001-001-00.dwg