

PANEL ID: PNL-L1		AMPS: 600A	VOLTS: 600V	PHASE: 3Ø	WIRE: 3	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input type="checkbox"/>						
DESCRIPTION: LIFT STATION 600VAC DISTRIBUTION PANEL		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 22 KA									
MFG / MODEL:		INST. SETTINGS: N/A		MAIN BREAKER: 600AF, MOLDED CASE SWITCH									
CCT.	LOAD DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	LOAD DESCRIPTION	CCT.
1					16240			16240					2
3	VFD-P-L1	2	2	100	16240			16240	100	2	2	VFD-P-L2	4
5					16240			16240					6
7					2850			2850	50	4		XFMR-L10 2P LOAD	8
9	SPACE (VFD-P-L3)												10
11													12
13					8000			485					14
15	HCE-L1 ELECTRIC HEATING COIL		8	30	8000			485	15	12		MS-SF-L1 VENTILATION FAN	16
17					8000			485					18
19													20
21	SPACE												22
23													24
TOTAL CONNECTED LOAD: 128.4 KVA		PHASE A: 43.5 kVA 125.4 A		PHASE B: 43.5 kVA 125.4 A		PHASE C: 41.4 kVA 119.4 A		NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LOCK LOCKED BREAKER					
NOTES: 1. INTERRUPTING RATING FOR ALL BREAKERS TO BE RATED 22 kA MINIMUM. 2. BREAKERS FOR VFD-P-L1 AND VFD-P-L2 ARE TO BE LSIG TYPE ELECTRONIC TRIP.													

PANEL ID: PNL-L10		AMPS: 100	VOLTS: 120/240V	PHASE: 1Ø	WIRE: 3	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input checked="" type="checkbox"/>						
DESCRIPTION: LIFT STATION 120/240V DISTRIBUTION PANEL		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 10 KA									
MFG / MODEL:		INST. SETTINGS: N/A		MAIN BREAKER: 70A									
CCT.	LOAD DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	LOAD DESCRIPTION	CCT.
1	CP-L1 CONTROL PANEL		12	15	300			110	15	12		CP-L2 CONTROL PANEL	2
3	CP-L3 RTU PANEL		12	15	400				15			SPARE	4
5	MAIN FLOOR LIGHTING		12	15	450			90	15	12		EXTERIOR LIGHT	6
7	MOTOR AND PUMP ROOM LIGHTING		12	15	490			400	15	12		VALVE CHAMBER LIGHTING	8
9	ELB-L1 EMERGENCY LIGHTING REC		12	15	30			30	15	12		ELB-L2 EMERGENCY LIGHTING REC	10
11	MAIN FLOOR RECEPTACLES		12	15	360			240	15	12		MAIN FLOOR RECEPTACLES	12
13	MOTOR ROOM RECEPTACLES		12	15	480			360	15	12		PUMP ROOM RECEPTACLES	14
15	FLOW METER		14	15	15			1440	15	12		SUMP PUMP RECEPTACLE	16
17	SF-L2 SUPPLY FAN		12	15	500				15			SPARE	18
19	SPARE				15				15			SPARE	20
21	SPACE											SPACE	22
23	SPACE											SPACE	24
TOTAL CONNECTED LOAD: 5.7 KVA		LINE 1: 2.4 kVA 19.6 A		LINE 2: 3.3 kVA 27.9 A		NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LOCK LOCKED BREAKER							
NOTES: 1. MAIN BREAKER TO BE MOUNTED AT TOP. BACK FED BREAKER NOT TO BE ACCEPTED.													

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMPS		VOLTS	LOAD VA	MOUNTING	NOTE
			QTY	TYPE				
A	CANLYTE CFI	VT248120HI	2	T8 32W	120	75	CS	
B	CANLYTE CFI	VTS224120HI	2	T8 17W	120	40	W	
C	COOPER	HP-WL-70-120V-LL-PCS	1	HPS 70W	120	90	W	1
D	STONCO	VTWXL11GC	1	INCAN.	120	100	W	
EA	LUMACELL OR READY-LITE	MQM2NX12V12W OR NMM-12/12	2	MR16, 12W	12	24	W	2

MOUNTING LEGEND:
CH CHAIN
CS CEILING SURFACE
P PENDANT
R RECESSED
W WALL

NOTES:
1. COMES WITH INTEGRATED PHOTOCELL.
2. USE 10 AWG, RW90 IN 16mm CONDUIT.

EMERGENCY LIGHTING BATTERY SCHEDULE

ID	MANUFACTURER	MODEL	INPUT		OUTPUT VOLTS	INTERNAL LAMPS		REMOTE FIXTURES		TOTAL LOAD (W)	DESIGN TIME	NOTE
			VOLTS	VA		QTY	TYPE	QTY	TOTAL REMOTE LOAD (W)			
ELB-L1	LUMACELL OR READY-LITE	RG12NX1082M12W OR LDX12-108NM2RM12	120	30	12	2	MR16, 12W	0	104	24	>2 HRS	1
ELB-L2	LUMACELL OR READY-LITE	RG12NX1082M12W OR LDX12-108NM2RM12	120	30	12	2	MR16, 12W	2	48	72	>30 MIN	1

NOTES:
1. BATTERY RATED FOR 30 MIN. @ 108W.



SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080		ENGINEER'S SEAL	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT MARION WASTEWATER PUMPING STATION INSTALLATION OF PUMPING UNITS & BUILDING UPGRADES ELECTRICAL SCHEDULES	
DESIGNED BY: B. CLEVEN DRAWN BY: S. COATES SCALE: NTS DATE: 2010/06/30	CHECKED BY: C. REIMER APPROVED BY: C. REIMER RELEASED FOR CONSTRUCTION BY: K. ZUREK DATE: 2010/10/04	ORIGINAL DRAWING SEALED BY: C. REIMER SNC-LAVALIN INC. 2010/10/02 REV. 00		
00 ISSUED FOR TENDER NO. REVISIONS	2010/09/29 DATE	BC CJR DESIGN CHECK	CONSULTANT NO.: 113368-0000-47DD-0008 BID OPP.: 760-2010	
CITY DRAWING NUMBER		SHEET	REV.	SIZE
1-0159L-E0008		001	00	A1