

PANEL ID: PNL-M22U (WAS PNL-E)				AMPS: 225	VOLTS: 120/240V	PHASE: 1 P	WIRE: 3	SURF. MOUNT FLUSH MOUNT	<input type="checkbox"/> <input type="checkbox"/>	TOP FED BOT. FED	<input type="checkbox"/> <input checked="" type="checkbox"/>		
DESCRIPTION: 120/240V UPS PANELBOARD						LOCATION: CONTROL ROOM							
MFG / MODEL: SQUARE D NQOB						INTERRUPTING RATING: 10 KA							
MAIN BREAKER: NONE						INST. SETTINGS: N/A							
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BKRR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BKRR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	STN. PLC DI/DO			15					15			PP#6 DI/DO	2
3	MCP EQUIPMENT			15					15			PP#6 EQUIPMENT	4
5	MCP UTILITY			15					15			PP#6 UTILITY	6
7	WORK STN. & PRINTER			15					15			CHLORINATOR #1	8
9	PP#1 DI/DO			15					15			CHLORINATOR #2	10
11	PP#1 EQUIPMENT			15					15			CL2 SCALE + SHUTOFF CHLORINE VALVE	12
13	PP#1 UTILITY + BATT. CHARGER			15					15			RESID ANALYZER PC-820-AIT	14
15	PP#2 UTILITY			15					15			RESID ANALYZER PC-821-AIT	16
17	PP#2 DI/DO			15					15			SOUTH FLOW PD-050-FT2	18
19	PP#2 EQUIPMENT			15					15			NORTH FLOW PD-050-FT1	20
21	PP#4 DI/DO			15								SPACE	22
23	PP#4 EQUIPMENT			15					15			SPARE	24
25	PP#4 UTILITY			15					15			GEN ROOM CCT#1	26
27	PP#5 UTILITY + BATT CHARGER			15					15			GEN ROOM CCT#2	28
29	PP#5 DI/DO			15					15			GEN ROOM CCT#3	30
31	PP#5 EQUIPMENT			15					15			BAILER UNDERVOLTAGE RELAY	32
33	GAS ENGINE #3 EQUIPMENT			15					15			GAS ENGINE #3 DI/DO	34
35	GAS ENGINE #3 LUBE PUMP			15					15	12		CO, LEL, LEAK DETECTION	36
37	CL2 DETECTOR			15					15	12		FIRE ALARM PANEL FACP-M922	38
39	HALOGEN CL2 SHUTOFF VALVE-SYS			15					15	12		SGR-M1, MCC-M710, M720, M730E PWR METER	40
41	NEW RACK PLUG			20								SPACE	42
TOTAL CONNECTED LOAD:			000.0 KVA		LINE 1:	0 KVA	0 A	NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LOCK LOCKED BREAKER					
			000.0 A (AVG)		LINE 2:	0 KVA	0 A						
			000.0 A (MAX)										
NOTES: 1. PANEL SCHEDULE IS BASED ON EXISTING DOCUMENTATION. 2. EXISTING LOADS HAVE NOT BEEN CALCULATED.													

SPECIFIC NOTES:

- 1 PROVIDE POWER TO NEW CHLORINE DETECTOR SYSTEM. REUTILIZE EXISTING CABLING FROM POWERHOUSE TO CHLORINE BUILDING. DEMOLISH EXISTING CHLORINE DETECTOR SYSTEM AND MODIFY/EXTEND AS NEEDED TO FACILITATE CONNECTION TO NEW CHLORINE DETECTOR SYSTEM.

GENERAL NOTES:

1. INSTALLATION COMPLIES WITH THE CANADIAN ELECTRICAL CODE, THE NATIONAL BUILDING CODE OF CANADA, AND CITY OF WINNIPEG ELECTRICAL BYLAW.
2. PROVIDED ALL NECESSARY MOUNTING ACCESSORIES FOR INSTALLATION OF NEW RUNNING MAN EXIT SIGNS.
3. EXIT SIGNS WERE INSTALLED IN ACCORDANCE WITH THE SIGN ORIENTATIONS SHOWN ON THE DRAWING TO INDICATE THE REQUIRED EGRESS PATH IN ACCORDANCE WITH BUILDING AND LOCAL AUTHORITY REQUIREMENTS

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	QTY	LAMP TYPE	VOLTS (VAC)	LOAD (WATTS)	MOUNTING	NOTE
A	PHILIPS	V3W443L840-UNV-LFA	6	LED	120	29	CS	1
B	PHILIPS	V3W443L840-UNV-LFA	10	LED	120	29	W, AN	1,2
C	PHILIPS	RBX20L840-UNV-ST-A22R	12	LED	120	158	SH	
D	PHILIPS	RBX10L840-UNV-ST-ARR16S	18	LED	120	87	SH	
E	PHILIPS	V3W435L840-UNV-LFA	23	LED	120	23	SH, W	3
F	LUMARK KEENE	WPL6B WP50-NW-G1-8-BZ	5	LED	120	46	W	
G	PHILIPS	1TG42L840-4-FS-12F-UNV	19	LED	120	44	R/TB	
H	PHILIPS	V3W435L840-UNV-LFA	13	LED	120	23	CS	
J	PHILIPS	V3W451L840-UNV-LFA	3	LED	120	35	SH	
K	PILA	WP44OL40KU	4	LED	120	46	CS	
X		EXISTING LIGHTING						
MOUNTING LEGEND: CH CHAIN HUNG W WALL CS CEILING SURFACE R/TB RECESSED/T-BAR SH STEM HUNG AN AS NOTED ON DRAWINGS								
NOTES: 1. USE 10 AWG RW90 IN 16mm CONDUIT. 2. LUMINAIRE TO BE MOUNTED ON WALL AND ANGLED AT 45 DEGREES DOWNWARD. 3. CHLORINATOR TONNER ROOM VESTIBULE FIXTURE SHALL BE WALL MOUNTED.								

EMERGENCY LIGHTING SCHEDULE

ID	MANUFACTURER	MODEL	INPUT		SOURCE PANEL	OUTPUT VOLTS	INTERNAL LAMPS		REMOTE FIXTURES		EXIT SIGNS		TOTAL LOAD (W)	DESIGN TIME	NOTE
			VOLTS	VA			QTY	TYPE	QTY	TOTAL REMOTE LOAD (W)	QTY	TYPE			
ELB-M701	READY-LITE EMERGI-LITE	LDX12-1002LD7 12ESL100/2LG	120	40	LPA-20	12	2	LED, 4W	5	40	3	LED, 1.5W	53	>1.0 HRS	1,2
ELB-M702	READY-LITE EMERGI-LITE	LDX12-1002LD7 12ESL100/2LG	120	40	LPA-10	12	2	LED, 4W	3	24	3	LED, 1.5W	37	>1.5 HRS	1,2
ELB-M703	READY-LITE EMERGI-LITE	LDX12-1002LD7 12ESL100/2LG	120	40	LPA-5	12	2	LED, 4W	6	48	5	LED, 1.5W	64	>0.5 HRS	1,2
ELB-G701	READY-LITE EMERGI-LITE	LDX12-1002LD7 12ESL100/2LG	120	40	PNL-B22-5	12	2	LED, 4W	0	0	1	LED, 1.5W	10	>4.0 HRS	1,2,4
ELB-C701	READY-LITE EMERGI-LITE	LDX12-1002LD7 12ESL100/2LG	120	40	C731E-6	12	2	LED, 4W	6	48	5	LED, 1.5W	64	~1.0 HRS	1,2,3
NOTES: 1. BATTERY RATED FOR 30 MIN. @ 100W. 2. REMOTE FIXTURE: READY-LITE PART NO. RL150D-LD7 OR EMERGI-LITE PART NO. EF150D-LGC 3. CHLORINE BUILDING EQUIPMENT AND TANK ROOM ARE NEMA-4X. REMOTE FIXTURES WILL BE READY-LITE PART NO. NMMP2-LD7 OR EMERGI-LITE PART NO. EF39PDM-LG. 4. UTILIZE EXISTING LIGHTING CIRCUIT IN GENERATOR ROOM. CONTRACTOR TO DETERMINE EXISTING LIGHTING CIRCUIT.															

EXIT SIGN SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	LOAD	NOTE
E1	EXTRUDED ALUMINUM EXIT SIGN, SINGLE-FACED	READY-LITE EMERGI-LITE	RA1WU EA1WU	<2.5W (AC) <1.5W (DC)	
E2	EXTRUDED ALUMINUM EXIT SIGN, DOUBLE-FACED	READY-LITE EMERGI-LITE	RA2WU EA2WU	<2.5W (AC) <1.5W (DC)	
E3	NEMA 4X RATED, SINGLE-FACED	READY-LITE EMERGI-LITE	EA1WU EN1WU	<2.5W (AC) <1.5W (DC)	
NOTES:					

LEGEND:

EX	=	
EX >	=	
< EX	=	

\*'EX' DENOTES NUMBER #E1-E3 ON EXIT SIGN SCHEDULE

1-0640M-E0050	ELECTRICAL LIGHTING PLAN, PUMPHOUSE MEZZANINE LEVEL
1-0640M-E0049	ELECTRICAL LIGHTING PLAN, PUMPHOUSE LOWER LEVEL
1-0640M-E0036	ELECTRICAL SINGLE LINE DIAGRAM, PUMPHOUSE, MCC-M730E
1-0640M-E0011	SINGLE LINE DIAGRAM & LAYOUT, REMOVALS & INSTALLATIONS
1-0640M-E0040	ELECTRICAL EQUIPMENT PLAN, MEZZANINE LEVEL
1-0640C-E0008	ELECTRICAL LIGHTING PLAN, CHLORINE BUILDING GROUND LEVEL AND TUNNELS
1-0640B-E0008	ELECTRICAL EQUIPMENT PLAN, GENERATOR ROOM AND LOAD BANK LDB-G767
DRAWING NUMBER	REFERENCE DRAWINGS



DESIGNED BY: V. ELIMBAN				CHECKED BY: K. SAPIAK			
DRAWN BY: J. GRACASIN				APPROVED BY: D. BECKER			
SCALE: NTS				ISSUED FOR CONSTRUCTION BY: M. SKINNER			
DATE: 2019/03/28				DATE: 2025/04/30			
CONSULTANT NO.:							
01	ISSUED FOR TENDER AND CONSTRUCTION	2025/04/30	VE	VE			
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS			
NO.	REVISIONS	DATE	DESIGN	CHECK			

ENGINEER'S SEAL		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
		MCPHILLIPS PUMPING STATION ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT PANELBOARD & LUMINAIRE SCHEDULE	
CITY DRAWING NUMBER 1-0640M-E0042		SHEET 002	REV. SIZE 03 A1