

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
EQUIPMENT			GENERAL ELECTRICAL		
AS NOTED		JUNCTION BOX			KEYED NOTE (SEE SCHEDULE)
		PULL BOX			DEMOLITION NOTE (SEE SCHEDULE)
78***		CIRCUIT BREAKER PANEL			REVISION TAG
78***		POWER OR DISTRIBUTION PANEL	WIRING		
		MOTOR (SEE SCHEDULE)			CONDUIT CONCEALED IN WALL OR OVERHEAD
MOTOR CONTROL					CONDUIT CONCEALED BELOW FLOOR
47"		MANUAL MTR. STR. (W/OVERLOADS)			CONDUIT EXPOSED
72***		MAG. MOTOR STARTER OR CONTACTOR			CONDUIT TRANSITION UP
72***		COMB. MOTOR STARTER (NON-FUSED)			CONDUIT TRANSITION DOWN
72***		COMB. MOTOR STARTER (FUSED)			CONDUIT STUBBED OUT
72***		SAFETY DISC. SW. (NON-FUSED)			
72***		SAFETY DISC. SW. (FUSED)			
		VARIABLE FREQUENCY DRIVE			
72***		MANUAL MOTOR STARTER			

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 47" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 47". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 47".

* DISTANCE ABOVE TOP OF DOOR FRAME

** DISTANCE TO TOP OF EQUIPMENT OR DEVICE

GENERAL NOTES

- THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.
- PENETRATIONS IN WALLS OR SEPERATIONS, REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL.
- EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL, OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME.
- EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE CONTRACT ADMINISTRATOR AND SHALL BE KEPT TO A MINIMUM.
- PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
- UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.
- SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
- PROVIDE WIRE AND CONDUIT AS REQUIRED FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- PROVIDE BLANK COVERPLATES OVER ALL EXISTING UNUSED OPENINGS.
- REMOVE ANY UNUSED OR ABANDONED WIRING AND CONDUIT WITHIN RENOVATION AREA, INCLUDING BRANCH CIRCUIT WIRING, VOICE/DATA CABLING AND SYSTEMS CABLING TO SOURCE OF SUPPLY.
- WHERE BRANCH CIRCUIT BREAKERS ARE REMOVED, PROVIDE FILLER PLATES FOR BREAKER SPACES.
- CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE, PRIOR TO FINALIZING PRICING.
- PROVIDE NEW TYPEWRITTEN PANEL DIRECTORIES TO ACCOMMODATE UPDATED CIRCUITING. NEW BREAKERS IN DISTRIBUTION PANELS SHALL BE LABELLED USING LAMACOIDS.
- FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT SHALL BE FLEXIBLE. CONFIRM FINAL CIRCUIT BREAKER AND WIRE SIZE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED WITHOUT ADDITIONAL COST TO THE CITY OF WINNIPEG.



O 16-04-19 Issued for Construction

No. DATE ISSUANCE

Seal



Certificate of Authorization

Epp Siepman Engineering Inc.

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Client

Project
PAN AM POOL VALVE AND SERVICES
REPLACEMENTS
25 POSEIDON BAY

Sheet Title

**BASEMENT ELECTRICAL COVER
PAGE**

As indicated

Bid
Opportunity
383-2016

E1.1

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	EC	ELECTRICAL CONTRACTOR	MAX	MAXIMUM	REQD	REQUIRED
A	AMPERE	ELEC	ELECTRIC, ELECTRICAL	MC	MECHANICAL CONTRACTOR	SC	SURFACE CONDUIT
AF	AMP FRAME	EMT	ELECTRICAL METALLIC TUBING	MEC	MECHANICAL CONTRACTOR	SHT	SHEET
		EQUIP	EQUIPMENT	MFR	MANUFACTURER	SPEC	SPECIFICATION
ALT	ALTERNATE	FU	FUSE	MIN	MINIMUM	SP	SPARE
AMP	AMPERE	FUDS	FUSED SAFETY DISCONNECT SWITCH	MISC	MISCELLANEOUS	S/S	STOP/START PUSHBUTTONS
APPROX	APPROXIMATELY			MT	MOUNT		
AUTO	AUTOMATIC			MTD	MOUNTED		
AUX	AUXILIARY	GA	GAUGE	MTR	MOTOR, MOTORIZED	STD	STANDARD
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR			SURF	SURFACE MOUNTED
		GFI	GROUND FAULT CIRCUIT INTERRUPTER	NEC	NATIONAL ELECTRICAL CODE	SW	SWITCH
				NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	TYP	TYPICAL
C	CONDUIT	GFP	GROUND FAULT PROTECTOR			V	VOLT
CAB	CABINET	GND	GROUND				
CB	CIRCUIT BREAKER			NFDS	NON-FUSED SAFETY DISCONNECT SWITCH	W	WATT
CKT	CIRCUIT	HOA	HANDS-OFF-AUTOMATIC SWITCH	NIC	NOT IN CONTRACT	W/	WITH
CONN	CONNECTION	HORIZ	HORIZONTAL	NTS	NOT TO SCALE	W/O	WITHOUT
CONST	CONSTRUCTION	HP	HORSEPOWER			WP	WEATHERPROOF
CONTR	CONTRACTOR	HT	HEIGHT				
CTR	CENTER			OL	OVERLOADS		
CU	COPPER	I/W	INTERLOCK WITH			@	AT
C/W	COMPLETE WITH			PH	PHASE	#	NUMBER
		J-BOX	JUNCTION BOX	PNL	PANEL	Ø	PHASE
DISC	DISCONNECT			PWR	POWER		
DS	SAFETY DISCONNECT SWITCH	LOC	LOCATE OR LOCATION				
DWG	DRAWING						

ELECTRICAL DRAWINGS

- E1.1 BASEMENT ELECTRICAL COVER PAGE
- E1.2 BASEMENT ELECTRICAL PLANS
- E1.3 ELECTRICAL SCHEDULES