EQUIPMENT SCHEDULE

EQUIPMENT						POWER REQUIREMENTS					SUPPLY PANEL					CABLE				STARTER					LOCAL DISC.				CONTROL				
												OCP																					
TAG	SUPPLIED	INSTALLED	CONNECTED	QUANTITY	DESCRIPTION	LOCATION	HP	KW	MCA	VOLTAGE	PHASE	PANEL NAME	BREAKER	DISCONNECT SWITCH	TIME-DELAY FUSE	POLES	NUMBER OF RUNS	NUMBER OF WIRES	WIRE SIZE (COPPER)	CONDUIT SIZE (inches)	SIZE	TYPE	SUPPLIED	INSTALLED	CONNECTED	TYPE	SUPPLIED	INSTALLED	CONNECTED	TYPE	SUPPLIED	INSTALLED	CONNECTED	NOTES
AHU–1	M	M	E	1	AIR HANDLING UNIT	ROOF	–	–	295.3	600	3	6SP1–2,4,6	300	300	–	3	1	3	350MCM	2–1/2	.	VFD	M	M	E	NFD	E	E	E	DDC	M	M	M	2,3
AHU–2	M	M	E	1	AIR HANDLING UNIT	ROOF	–	–	21.6	600	3	6SP1–8,10,12	25	25	–	3	1	3	#10 AWG	3/4	.	VFD	M	M	E	NFD	E	E	E	DDC	M	M	M	2,3
AHU–3	M	M	E	1	AIR HANDLING UNIT	MEZZANINE	–	–	3.7	600	3	6SP1–14,16,18	15	15	–	3	1	3	#12 AWG	1/2	.	VFD	E	E	E	NFD	E	E	E	DDC	M	M	M	2,3,6
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RF–1	M	M	E	1	RETURN FAN	MEZZANINE	0.75	–	–	208	1	SP1–1,3	15	–	–	2	1	2	#12 AWG	1/2	.	VFD	E	E	E	NFD	E	E	E	DDC	M	M	M	2,3,6
.					.																													
EF–1	M	M	E	1	EXHAUST FAN	JANITOR ROOM	–	0.01	–	120	1	SP1–101	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
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HRV–1	M	M	E	1	HEAT RECOVERY VENTILATOR	MEZZANINE	–	–	11	208	3	SP1–5,7,9	25	–	–	3	1	3	#10 AWG	3/4	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
HRV–2	M	M	E	1	HEAT RECOVERY VENTILATOR	MEZZANINE	–	–	4.5	120	1	SP1–11	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
HRV–3	M	M	E	1	HEAT RECOVERY VENTILATOR	CRAWLSPACE	0.5	–	–	120	1	SP1–103	30	–	–	1	1	2	#10 AWG	3/4	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
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B–1	M	M	E	1	GAS BOILER	BASEMENT	–	–	5	120	1	SP1–13	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
B–2	M	M	E	1	GAS BOILER	BASEMENT	–	–	5	120	1	SP1–15	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
B–3	M	M	E	1	GAS BOILER	MEZZANINE	–	–	5	120	1	SP1–17	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
B–4	M	M	E	1	GAS BOILER	MEZZANINE	–	–	5	120	1	SP1–19	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	NFD	E	E	E	DDC	M	M	M	
.					.																													
PU–1	M	M	E	1	POOL HEATING BOILER CIRC PUMP	BASEMENT	1.5	–	–	600	3	6SP1–7,9,11	15	–	–	3	1	3	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
PU–2	M	M	E	1	POOL HEATING BOILER CIRC PUMP	BASEMENT	1.5	–	–	600	3	6SP–13,15,17	15	–	–	3	1	3	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
PU–3	M	M	E	1	POOL HEATING CIRCULATION PUMP	BASEMENT	1	–	–	208	1	SP1–21,23	15	–	–	2	1	2	#12 AWG	1/2	.	INT	M	M	M	NFD	E	E	E	DDC	M	M	M	
PU–4	M	M	E	1	POOL HEATING CIRCULATION PUMP	BASEMENT	1	–	–	208	1	SP1–25,27	15	–	–	2	1	2	#12 AWG	1/2	.	INT	M	M	M	NFD	E	E	E	DDC	M	M	M	
PU–5	M	M	E	1	SPACE HEATING BOILER CIRC PUMP	BASEMENT	3	–	–	600	3	6SP1–19,21,23	15	–	–	3	1	3	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
PU–6	M	M	E	1	SPACE HEATING BOILER CIRC PUMP	BASEMENT	3	–	–	600	3	6SP1–25,27,29	15	–	–	3	1	3	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
PU–7	M	M	E	1	SPACE HEATING CIRCULATION PUMP	BASEMENT	2	–	–	208	1	SP1–29,31	15	–	–	2	1	2	#12 AWG	1/2	.	INT	M	M	M	NFD	E	E	E	DDC	M	M	M	
PU–8	M	M	E	1	SPACE HEATING CIRCULATION PUMP	BASEMENT	2	–	–	208	1	SP1–33,35	15	–	–	2	1	2	#12 AWG	1/2	.	INT	M	M	M	NFD	E	E	E	DDC	M	M	M	
PU–9	M	M	E	1	TEMPERED WATER RETURN PUMP	BASEMENT	0.167	–	–	120	1	SP1–57	15	–	–	1	1	2	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
PU–10	M	M	E	1	DOMESTIC HOT WATER RETURN PUMP	BASEMENT	0.5	–	–	120	1	SP1–59	15	–	–	1	1	2	#12 AWG	1/2	0	MAG	E	E	E	NFD	E	E	E	DDC	M	M	M	
.					.																													
GMU–1	M	M	E	1	GLYCOL MAKEUP UNIT	BASEMENT	–	–	0.9	120	1	SP1–37	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	.	.	.	.	IP	M	M	M	
.					.																													
WMU–1	M	M	E	1	WATER MAKEUP UNIT	BASEMENT	–	–	0.9	120	1	SP1–39	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	.	.	.	.	IP	M	M	M	
.					.																													
CUH–1	M	M	E	1	CABINET UNIT HEATER	VESTIBULE	FRAC	–	–	120	1	SP1–61	15	–	–	1	1	2	#12 AWG	1/2	.	.	.	.	.	.	.	.	.	DDC	M	M	M	
.					.																													
UH–1	M	M	E	1	UNIT HEATER	BASEMENT TUNNEL	–	2.25	–	208	1	SP1–2,4	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	NFD	E	E	E	IT	M	M	M	
UH–2	M	M	E	1	UNIT HEATER	BASEMENT TUNNEL	–	2.25	–	208	1	SP1–6,8	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	NFD	E	E	E	IT	M	M	M	
UH–3	M	M	E	1	UNIT HEATER	BASEMENT TUNNEL	–	2.25	–	208	1	SP1–10,12	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	NFD	E	E	E	IT	M	M	M	
UH–4	M	M	E	1	UNIT HEATER	BASEMENT TUNNEL	–	2.25	–	208	1	SP1–14,16	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	NFD	E	E	E	IT	M	M	M	
UH–5	M	M	E	1	UNIT HEATER	CRAWLSPACE BELOW AHU–1	–	2.25	–	208	1	SP1–18,20	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	NFD	E	E	E	IT	M	M	M	
.					.																													
P–1	M	M	E	1	WATER CLOSET FLUSH VALVE	–	–	–	–	120	1	SP1–41	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	5
P–2	M	M	E	1	WATER CLOSET FLUSH VALVE	–	–	–	–	120	1	SP1–43	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	5
P–3	M	M	E	1	LAV ELECTRIC FAUCET	–	–	–	–	120	1	SP1–105	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	5
P–4	M	M	E	1	LAV ELECTRIC FAUCET	–	–	–	–	120	1	SP1–107	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	5
P–5	M	M	E	1	URINAL FLUSH VALVE	–	–	–	–	120	1	SP1–109	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	5
P–6a	M	M	E	1	TEMPERED SHOWER VALVE	–	–	–	–	120	1	SP1–111	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	
P–10a	M	M	E	1	REFRIGERATED DRINKING FOUNTAIN	–	–	–	–	120	1	SP1–113	15	–	–	2	1	2	#12 AWG	1/2	–	–	–	–	–	–	–	–	–	IC	M	M	M	

POOL EQUIPMENT SCHEDULE

EQUIPMENT						POWER REQUIREMENTS					SUPPLY PANEL					CABLE				STARTER					LOCAL DISC.				CONTROL				
												OCP																					
TAG	SUPPLIED	INSTALLED	CONNECTED	QUANTITY	DESCRIPTION	LOCATION	HP	KW	MCA	VOLTAGE	PHASE	PANEL NAME	BREAKER	DISCONNECT SWITCH	TIME-DELAY FUSE	POLES	NUMBER OF RUNS	NUMBER OF WIRES	WIRE SIZE (COPPER)	CONDUIT SIZE (inches)	SIZE	TYPE	SUPPLIED	INSTALLED	CONNECTED	TYPE	SUPPLIED	INSTALLED	CONNECTED	TYPE	SUPPLIED	INSTALLED	CONNECTED	NOTES
PP–1	P	P	E	1	SPARY PAD CIRC PUMP	BASEMENT	7.5	.	.	208	3	"SP1–22,24,26"	60	.	.	3	1	3	#8 AWG	1"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
PP–2	P	P	E	1	FEATURE SPRAY PUMP	BASEMENT	7.5	.	.	208	3	"SP1–28,20,32"	60	.	.	3	1	3	#8 AWG	1"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
PP–3	P	P	E	1	GROUND SPRAY PUMP	BASEMENT	5	.	.	208	3	"SP1–34,36,38"	40	.	.	3	1	3	#8 AWG	1"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
PP–4	P	P	E	1	TWISTER SLIDE SPARY PUMP	BASEMENT	5	.	.	208	3	"SP1–40,42,44"	40	.	.	3	1	3	#8 AWG	1"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
PP–5	P	P	E	1	KMR SLIDE PUMP	BASEMENT	3	.	.	208	3	"SP1–46,48,50"	25	.	.	3	1	3	#10AWG	3/4"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
PP–6	P	P	E	1	POOL CIRC PUMP	BASEMENT	3	.	.	208	3	"SP1–52,54,56"	25	.	.	3	1	3	#10AWG	3/4"		MAG	E	E	E	NFD	E	E	E	.	.	.	.	.
.					.																													
C–1	P	P	E	1	SPARY PAD CHEMICAL FEED PUMP	BASEMENT	.	.	.	120	1	SP1–63	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
C–2	P	P	E	1	SPARY PAD CHEMICAL FEED PUMP	BASEMENT	.	.	.	120	1	SP1–65	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	
C–3	P	P	E	1	POOL CHEMICAL FEED PUMP	BASEMENT	.	.	.	120	1	SP1–67	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	
C–4	P	P	E	1	POOL CHEMICAL FEED PUMP	BASEMENT	.	.	.	120	1	SP1–69	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	
CAT–1	P	P	E	1	CHEMICAL CONTROLLER – SPRAY PAD	BASEMENT	.	.	.	120	1	SP1–58	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4
CAT–2	P	P	E	1	CHEMICAL CONTROLLER – POOL	BASEMENT	.	.	.	120	1	SP1–60	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	4
.					.																													
L–1	P	P	E	1	WATER LEVELLER	BASEMENT	.	.	0.5	120	1	SP1–73	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	4
L–2	P	P	E	1	WATER LEVELLER	BASEMENT	.	.	0.5	120	1	SP1–73	15	.	.	1	1	2	#12 AWG	1/2"	.	.	.	.	.	.	.	.	.	.	.	.	.	4
UV–1	P	P	E	1	ULTRAVIOLET SYSTEM	BASEMENT		1.2		120	1	SP1–88	15			1	1	2	#12 AWG	1/2"										EPL				
UV–2	P	P	E	1	ULTRAVIOLET SYSTEM	BASEMENT		3.5		120	1	SP1–90	40			1	1	2	#8 AWG	1"										EPL				

EQUIPMENT SCHEDULE LEGEND:

O	OWNER
K	KITCHEN SUPPLIER
E	ELECTRICAL CONTRACTOR
M	MECHANICAL CONTRACTOR
LVT	LOW VOLTAGE THERMOSTAT
LT	LINE VOLTAGE THERMOSTAT
RAT	REVERSE ACTING THERMOSTAT
HTS	HUMIDITY TIMER SWITCH
VS	VARIABLE SPEED SWITCH
LS	LINE VOLTAGE SWITCH
COS	CO/VG GAS SENSOR
FS	FLOAT SWITCH
PS	PRESSURE SWITCH
HOA	HAND/OFF/AUTO SWITCH
TC	TIME CLOCK
VFD	VARIABLE FREQUENCY DRIVE
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
DDC	DIRECT DIGITAL CONTROL
FD	FUSED DISCONNECT
NFD	NON–FUSED DISCONNECT
ECP	EQUIPMENT CONTROL PANEL
FVNR	FULL VOLTAGE NON–REVERSING
PB	PUSHBUTTON
IT	INTEGRAL THERMOSTAT
RC	REMOTE CONTROL
DSS	DUAL SPEED STARTER
INT	INTEGRAL STARTER
IP	INTEGRAL PRESSURE SENSOR
P	SPLASH PAD EQUIPMENT SUPPLIER
IC	INTEGRAL CONTROL

NOTES:

1. CONFIRM ALL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.
2. SHUT DOWN ON FIRE ALARM.
3. ALL DISCONNECT SWITCHES DOWNSTREAM OF VFD'S SHALL BE C/W PRE–BRAKE (AUXILIARY) CONTROL CONTACTORS. EXTEND ALL CONTROL WIRING IN SEPARATE CONDUIT BACK TO THE VFD.
4. DEDICATED RECEPTACLE.
5. PROVIDE AND INSTALL A DEDICATED 120VAC–24VAC TRANSFORMER FOR EACH PLUMBING FIXTURE. CONTRACTOR SHALL SIZE TRANSFORMER AS REQUIRED BASED ON PLUMBING FIXTURE SHOP DRAWINGS.
6. VFDs SHALL BE AN ALTRIVAR 61 SERIES UNIT COMPLETE WITH 5% LINE REACTOR AND 5% LOAD REACTOR OR APPROVED EQUAL. ALL EQUIPMENT SHALL BE MOUNTED IN THE MEZZANINE ADJACENT TO THE ASSOCIATED MECHANICAL EQUIPMENT.

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issue / rev.

#	date	issue notes
0	2016/12/08	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — R. LALONDE — Member — 32545 — PROFESSIONAL ENGINEER
DEC. 7, 2016

project information

SEVEN OAKS POOL

444 Adsum Drive
Winnipeg, MB
Canada

client

City of Winnipeg
4th Floor - 86 King Street
Winnipeg, MB

drawing information

ELECTRICAL MECH EQUIPMENT SCHEDULE

drawn by: GCN
approved by:

scale: AS NOTED
date issued: 2016.11.23
proj. #: 14-1736-008
rev. #: R-0

SEVEN OAKS POOL RENOVATION & ADDITION
BID OPPORTUNITY NO. 1044-2016

E5
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