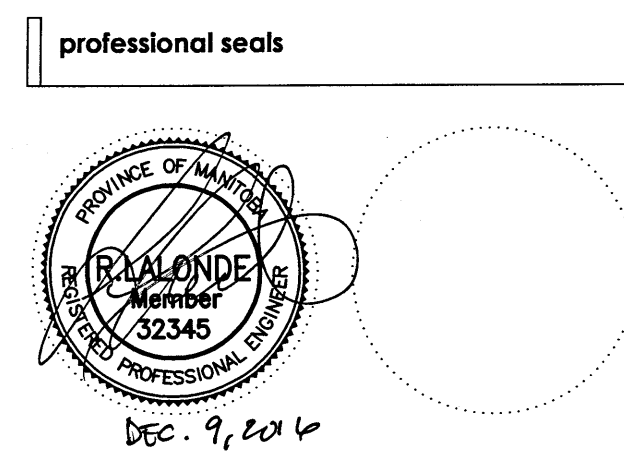


issue / rev.

0	2016/12/09	ISSUED FOR CONSTRUCTION
#	date	issue notes



project information

**SEVEN OAKS POOL RENOVATION & ADDITION**  
444 Adsum Drive  
Winnipeg, MB  
Canada

client

drawing information

**ELECTRICAL LUMINAIRE SCHEDULES**

drawn by: GCN  
approved by:

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

**NOTES:**

- ALL FIXTURES SHALL BE COMPLETE WITH ALL REQUIRED MOUNTING AND INSTALLATION HARDWARE.
- ALL INTERIOR PHOTOCCELL SENSORS SHALL CONTROL A PRIMARY AND SECONDARY DAYLIGHT ZONES.
- PROVIDE NEMA 4 ENCLOSURE WHERE WEATHER PROOF IS INDICATED ON PLAN DRAWING.
- ALL NLIGHT CONTROL WIRING SHALL BE BLACK CATSE CABLE.
- THIS TABLE IS DIAGRAMMATICAL ONLY AND CONTRACTOR SHALL CONFIRM ALL COUNTS WITH PLAN DRAWINGS.
- ALL SPECIFIED LIGHTING FIXTURES HAVE BEEN USED IN THE FINAL LIGHTING DESIGN CALCULATIONS AND POWER DENSITY CALCULATIONS. ANY LIGHTING FIXTURE ALTERNATES SHALL BE SUBMITTED IN ACCORDANCE WITH B7 AND SHALL BE C/W A POINT-BY-POINT PHOTOMETRIC CALCULATION AND A POWER DENSITY CALCULATION FOR REVIEW AND PRE-APPROVAL AT TIME OF TENDER. PROPOSED PRE-APPROVED PACKAGES WITHOUT THE AFOREMENTIONED CALCULATIONS WILL NOT BE CONSIDERED. NO ALTERNATES WILL BE ACCEPTED AFTER TENDER HAS CLOSED. ALTERNATES MUST BE SUBMITTED IN ACCORDANCE WITH B7.
- LUMINAIRE SHALL BE COMPLETE WITH A 12"-Ø" BLACK SQUARE POLE.
- CONTRACTOR SHALL CONFIRM PENDANT LENGTH REQUIRED TO ACHIEVE FIXTURE MOUNTING HEIGHTS SHOWN ON PLAN DRAWING (E4-01).
- FIXTURE SHALL BE MOUNTED VERTICALLY ON MIRROR WITHIN WASHROOM AND CHANGE ROOM AREA. CONTRACTOR TO COORDINATE ALL MOUNTING WITH MIRROR SYSTEMS.
- BATTERY EMERGENCY LIGHTING UNITS SHALL BE COMPLETE WITH 10 ZONE SENSING RELAYS.
- COORDINATE PART NUMBER TO MATCH CEILING TYPE.
- CONTRACTOR SHALL SELECT LENGTH TO SUIT BASED ON FIELD MEASUREMENTS.

**LIGHTING CONTROLS:**

REGULAR OPERATING HOURS:

- ALL PUBLIC AREAS (ROOMS 119, 120, 100, 101, 102, 103, 109, 110, 111, 115, 117, 118 AND EXISTING POOL DECK) SHALL BE FULLY ILLUMINATED WITH DAYLIGHT SENSOR DIMMING IF EQUIPPED FOR THAT ROOM. OCCUPANCY SENSORS SHALL BE DEACTIVATED IN THESE AREAS.

ALL OTHER SPACES SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSORS.

NIGHT/NON-OPERATING HOURS:

- ALL NIGHT LIGHT FIXTURES (DESIGNATED WITH 'NL') SHALL BE DIMMED TO 10% LIGHT OUTPUT AND ALL OTHER FIXTURES SHALL BE 'OFF'. ALL ROOMS ARE EQUIPPED WITH LOCAL OCCUPANCY SENSORS. THESE SHALL INCREASE 'NL' FIXTURES UP TO 100% LIGHT OUTPUT.
- ALL REMAINING LIGHTING SHALL BE MANUALLY CONTROLLED WITH A TWO (2) HOUR SWEEP FUNCTION TO TURN OFF.

OUTDOOR FIXTURES:

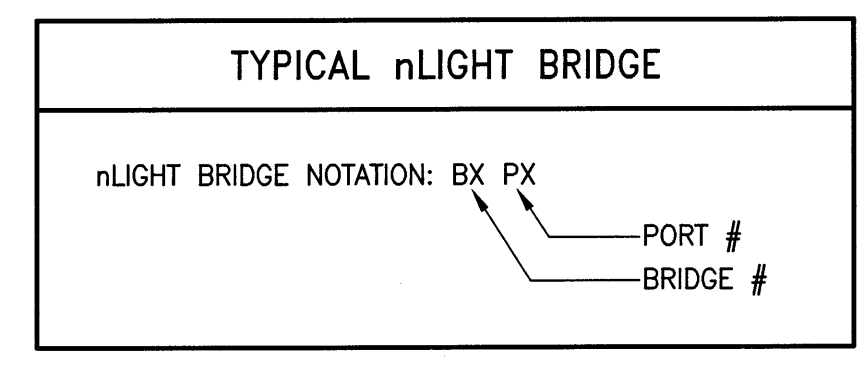
- TIME CLOCK SHALL BE C/W PHOTOCCELL OVERRIDE AND OPERATE AS FOLLOWS:  
ON: 30 MINUTES BEFORE SUNSET  
OFF: 30 MINUTES AFTER SUNRISE

nLIGHT LIGHTING CONTROL RELAY SCHEDULE															
ROOM #	AREA/ROOM	FIXTURE TYPE	FIXTURE QTY	# OF nLIGHT CIRCUITS	POWER PACKS QTY	TAG	OCCUPANCY CTRL	DAYLIGHT SENSOR	DIMMER CTRL	WALL SWITCH	LOAD (W)	CIRCUIT #	CTRL SENSOR QTY	TAG	nLIGHT BRIDGE
119	SPASH PAD	B	8	1	1	PP1	Y	Y	N	N	4201	SP1-64	2	DSX1	B1P1
		C1	10									SP1-66	3	OC1	
		C2	1									SP1-68			
		C3	3									SP1-70			
120	VIEWING LOBBY / MPR	P	9	1	1	PP1	Y	N	Y	Y	191	SP1-72	2	OC3	B1P2
100	VESTIBULE	P	4		1	PP1									
101	ENTRY LOBBY	P	14	1	1	PP1	N	N	N	N	880	SP1-74	-	-	B1P3
103	RECEPTION	P	6		1	PP1									
104	OFFICE	P	4	1	1	PP1	Y	N	Y	Y	93	SP1-76	2	OC3	B1P4
		Q	1												
102	VIEWING LOBBY	L1	10	1	-	PP1	N	N	N	N	1021	SP1-78	-	-	B1P5
		F	11												
		L2	5												
107	OFFICE	D	2	1	-	-	Y	N	Y	Y	106	SP1-80	1	OC3	B2P1
108	FIRST AID	D	2	1	-	-	Y	N	Y	Y	106	SP1-80	1	OC3	B2P2
105	SMALL MPR	D	4	1	-	-	Y	N	Y	Y	212	SP1-80	1	OC3	B2P3
110	UNIVERSAL CHANGE	F	9	1	1	PP1	Y	N	N	N	234	SP1-86	1	OC1	B2P4
112	CHANGE	M	1	1	1	PP1	Y	N	N	N	79	SP1-80	1	OC1	B2P5
		N	2												
113	CHANGE	M	1	1	1	PP1	Y	N	N	N	79	SP1-80	1	OC1	B3P1
		N	2												
114	SPECIALTY CHANGE	H	2	1	1	PP1	Y	N	N	Y	108	SP1-82	1	OC1	B3P3
116	SPECIALTY CHANGE	-	1	1	1	PP1	Y	N	N	Y	93.5	SP1-82	1	OC1	B3P5

LINE VOLTAGE LIGHTING CONTROL RELAY SCHEDULE											
ROOM #	AREA/ROOM	FIXTURE TYPE	FIXTURE QTY	OCCUPANCY CTRL	DAYLIGHT SENSOR	DIMMER CTRL	WALL SWITCH	LOAD (W)	CIRCUIT #	CTRL SENSOR	
										QTY	TAG
000	BASEMENT	A1	10	Y	N	N	N	650	SP-84	2	OC2
001	CRAWLSPACE	A	15	Y	N	N	N	400	SP-86	5	OC2
004	MECH	A	1	Y	N	N	N	400	SP-86	1	OC3
200	ELECTRICAL	A1	2	Y	N	N	N	118	SP-86	1	OC3
115&111	EXISTING W/C	H	5	N	N	N	N	270	SP-86		
118	EXISTING W/C	H	2	N	N	N	N	108	SP-86		

LIGHTING CONTROLS SCHEDULE		
TAG	DESCRIPTION	MANUFACTURER
OC1	WALL MOUNT, nLIGHT ENABLED, LINE VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR RATED FOR USE IN HIGH HUMIDITY LOCATIONS	SENSORSWITCH: nHW-13-LT
OC2	RECESSED CEILING MOUNT, nLIGHT ENABLED, DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSORSWITCH: nRM-PDT-9
OC3	WALL MOUNT, DIMMING, nLIGHT ENABLED, DUAL TECHNOLOGY OCCUPANCY SENSOR AND WALL SWITCH	SENSORSWITCH: nWSX-PDT-LV-DX
LV1	TOUCH SCREEN LIGHTING CONTROL SWITCH	SENSORSWITCH: nPOD-GFX-WH
DS1	CEILING MOUNT, nLIGHT ENABLED AUTOMATIC DIMMING CONTROL PHOTOCCELL RATED FOR USE IN HIGH HUMIDITY APPLICATIONS	SENSORSWITCH: nCM-ADCX-LT-RJB
DS2	nLIGHT ENABLED OUTDOOR PHOTOCCELL	SENSORSWITCH: nIO-PC-KIT

POWER PACK SCHEDULE		
TAG	DESCRIPTION	MANUFACTURER
PP1	nLIGHT ENABLED 16A POWER PACK C/W 0-10V DIMMING RATED FOR USE IN HIGH HUMIDITY LOCATIONS	nLIGHT: nPP16-D-LT



LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	LAMPS	DESIGN BASICS
A	1220mm [4'-0"] LED STRIP FIXTURE C/W FROSTED LENS, 3000 DELIVERED LUMENS, WHITE FINISH.	120V	30W LED 3000LM 4000K	LITHONIA - ZL1N L48 3000LM FST 120 40K 80CRI WH
A1	2440mm [8'-0"] LED STRIP FIXTURE C/W FROSTED LENS, 6000 DELIVERED LUMENS, WHITE FINISH.	120V	59W LED 6000LM 4000K	LITHONIA - TZL1N L96 6000LM FST 120 40K 80CRI WH
B	PENDANT POOL FIXTURE C/W NANATORIUM RATING, WIDE TYPE DISTRIBUTION, FROSTED LENS.	120V	232W LED 24000LM 4000K	HOLOPHANE - PHS-24000LM-40K-80CRI-AS-P-WH-W-FR
C1	SUSPENDED LED UPLIGHT FIXTURE WITH NATATORIUM RATING FOR POOL USE C/W 0-10 DIMMING BALLAST, SOLID SEMIGLOSS WHITE CUTOFF VISOR, AND EXTERNAL YOLK. ADDITIONAL MOUNTING ACCESSORY FOR TWO FIXTURE PENDANT MOUNT C/W NATATORIUM RATING.	120V	165.7W LED 9207LM 4000K	LUMINAIRE: ELLIPTIPAR- S104-5108-2-02-M-VP-J-40-ZX ACCESSORIES: ELLIPTIPAR- VCP-2-02- S-P-J NOTE 8
C2	SUSPENDED LED UPLIGHT FIXTURE WITH NATATORIUM RATING FOR POOL USE C/W 0-10 DIMMING BALLAST, SOLID SEMIGLOSS WHITE CUTOFF VISOR, AND EXTERNAL YOLK. ADDITIONAL MOUNTING ACCESSORY FOR SINGLE FIXTURE PENDANT MOUNT C/W NATATORIUM RATING.	120V	165.7W LED 9207LM 4000K	LUMINAIRE: ELLIPTIPAR- S104-5108-2-02-M-VP-J-40-ZX ACCESSORIES: ELLIPTIPAR- VCP-2-02- S-P-J NOTE 8
C3	WALL MOUNT LED UPLIGHT FIXTURE WITH NATATORIUM RATING FOR POOL USE C/W 0-10 DIMMING BALLAST, SOLID SEMIGLOSS WHITE CUTOFF VISOR AND EXTERNAL YOLK.	120V	165.7W LED 9207LM 4000K	ELLIPTIPAR- S104-5109-Z-02-M-VP-J-40-ZX
D	2'x4' LED TROFFER C/W STEEL ENCLOSURE, CURVED REFLECTORS, nLIGHT CAPABILITY, DIM TO 1% AND 6000 DELIVERED LUMENS.	120V	53W LED 6000LM 4000K	LITHONIA - 2BLT4 60L AD5M EZ1 LP840 N100
F	RECESSED OPEN DOWNLIGHT, 1500 DELIVERED LUMENS, OPEN CLEAR TRIM, nLIGHT CAPABILITY, SEMI SPECULAR FINISH.	120V	26W LED 1500LM 4000K	LITHONIA - LDN6 40/15 L06 AR 120
G	WALL MOUNT STRIP LIGHT, 1220mm [4'-0"] LENGTH, 4000 DELIVERED LUMENS, C/W DIMMING TO 10%.	120V	39.5W LED 4000LM 4000K	LITHONIA - WL4 40L EZ1 LP840
H	SURFACE MOUNT 4' LED FIXTURE IP65 RATED WATERTIGHT.	120V	54W LED 4000LM 4000K	AIMLITE- VP4-L-A2-2-40K
K	POLE MOUNT LED SITE LIGHTING FIXTURE C/W BLACK HOUSING.	120V	45W LED 4000K	LITHONIA - DSX0-20C-700-40K-T2M-MVOLT-SPA-DBLXD (NOTE 7)
L1	SUSPENDED LED UPLIGHT/DOWNLIGHT FIXTURE C/W EXTRUDED ALUMINUM HOUSING, BLACK POWDER COAT FINISH, AIRCRAFT CABLE SUSPENSION SURFACE MOUNT DRIVER.	120V	49W LED 4100LM 4000K	FLUXWERX - PR1-F-A-D-40-B- S-D-M- NOTE 12
L2	SUSPENDED LED DOWNLIGHT FIXTURE C/W EXTRUDED ALUMINUM HOUSING, BLACK POWDER COAT FINISH, AIRCRAFT CABLE SUSPENSION SURFACE MOUNT DRIVER.	120V	49W LED 4100LM 4000K	FLUXWERX - PR1-F-B-D-40-B- S-D-M- NOTE 12
M	RECESSED OPEN DOWNLIGHT, 1500 DELIVERED LUMENS, OPEN CLEAR TRIM, nLIGHT CAPABILITY, SEMI SPECULAR FINISH.	120V	26W LED 1500LM 4000K	LITHONIA - LDN6 40/15 L06 AR 120
N	4' LINEAR LED FIXTURE, WALL MOUNT, DIM TO 1% 0-10V DIMMING DRIVER STANDARD OUTPUT	120V	1-36W LED 3400LM 4000K	PRUDENTIAL: R1-LED4-S0-4'-WA-TMW-UNV-SUR-X3-DIM01 (NOTE 9)
P	RECESSED MOUNT LED LUMINAIRE C/W 2 APERTURE, EXTENDED ALUMINUM BODY, FROSTED LENS, BLACK FINISH.	120V	36.9W LED 3287LM 4000K	FINELITE - HP-2-R-4'-S-8-40-F-120V-SC- RAL 9011 NOTE 11

EMERGENCY LIGHTING SCHEDULE				
TYPE	DESCRIPTION	VOLTAGE	LAMPS	MANUFACTURER
E1	STEEL PICTOGRAM, EXIT SIGN, UNIVERSAL MOUNT, BRUSHED ALUMINUM, MULTIPLE PICTOGRAM LEGENDS FOR DIRECTION SELECTION, C/W ALL REQUIRED INSTALLATION & MOUNTING HARDWARE.	120V	LED 2-5W	AIMLITE MODEL: RPST SERIES
E2	EMERGENCY BATTERY UNIT C/W, 12VDC OUTPUT, DUAL EMERGENCY HEADS AND 360W BATTERY.	120V	LED 2-5W	AIMLITE MODEL: EBST SERIES (NOTE 10)
E3	EDGE LIT EXIT SIGN, UNIVERSAL MOUNT, MULTIPLE PICTOGRAM LEGENDS FOR DIRECTION SELECTION, C/W ALL REQUIRED INSTALLATION & MOUNTING HARDWARE. PROVIDE WEATHER PROOF WHERE INDICATED.	120V	LED	AIMLITE MODEL: RPEL U BSH-BAT
E4	EMERGENCY LIGHTING DUAL LED REMOTE HEADS. PROVIDE WEATHER PROOF WHERE INDICATED.	120V	LED 2-7W	AIMLITE MODEL: RMSM-2-12-24-7W-LA-WHT
E5	COMBINATION PICTOGRAM EXIT SIGN AND LED EMERGENCY LIGHTING, NEMA 4X WATER TIGHT HOUSING C/W UNIVERSAL MOUNT, PICTOGRAM LEGENDS FOR DIRECTION SELECTION AND ALL REQUIRED INSTALLATION AND MOUNTING HARDWARE.	120V	LED 2-7W	AIMLITE MODEL: CRRP1250-1-W-GRY-GRY-2MW-7LA
E6	STEEL PICTOGRAM EXIT SIGN, UNIVERSAL MOUNT, BATTERY UNIT COMPLETE WITH TWO REMOTE HEADS AND ALL REQUIRED MOUNTING HARDWARE.	120V	LED 2-7W	AIMLITE MODEL: CSRP1250 U M 2MD-7LA WHT

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