

CEC 2012 [Table 14]  
[Sec 8-210]

Common Spaces				
	1678			
Auditorium	1,473	10.0	100%	14729.99
Office	205	50.0	100%	10230
Stage Lights		5,000.0	100%	5000
DHWT		4.5	100%	4.5
Air Handling Unit (2 @ 5HP)		6,012.0	100%	6012
Subtotal:				35,976.49

[Sec 62-118.3]

Total Baseboard and Heating Coil Load =				115,000.00
		Demand Factor %	Base Load	
First 10KW	10,000	100	10,000	
Remaining	105,000	75	78,750	
Subtotal:				88,750.00

SUB TOTAL, WATTS 124,726.49  
Load

Phase-To-Phase Voltage = 208 Volts Phase= 3

Service Continuous Load = 346.2 Amps

Minimum Service Size = 433 Amps

Installed Service Size = 600 Amps

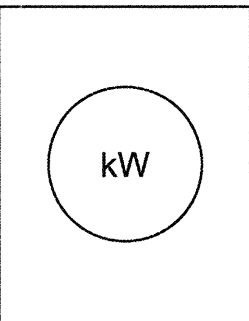
2 LOAD CALCULATIONS

SCALE: NTS

LOCATION OF EXISTING BEGHELLI EXIT LIGHTING POWER SUPPLY, AND MEANWELL POWER INVERTER. CAP, MAKE SAFE, AND PROTECT ALL EXIT LIGHTING CIRCUITS, AND BEGHELLI POWER SUPPLY. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW PANELS ON SITE. ALLOW FOR RELOCATION AS REQUIRED FOR NEW WALL INSULATION.

APPROXIMATE LOCATION OF EXISTING 100A 3P PANEL. CONTRACTOR TO PROVIDE NEW 84CCT 225A 'PANEL A' FOR ALL HOUSE LOADS, AND A 84CCT 225A 'PANEL B' FOR MECHANICAL LOADS EXCLUDING AHU-1.

EXISTING STRAND HOUSE LIGHTING PANEL. CAP, MAKE SAFE, LABEL, AND PROTECT ALL CIRCUITS AND POWER SUPPLY FOR REINSTALLATION AFTER WALL INSULATION.



	TVSS 100A 3Ø	PANEL A 225A 3Ø
	AIR HANDLING UNIT 200A 3Ø	PANEL B 225A 3Ø
	FIRE ALARM 15A 1Ø	DIMMER PANEL 60A 3Ø
	UPS 40A 3Ø	AHU HEATING COIL 200A 3Ø
	SPARE 100A 3Ø	SPACE 3Ø
C/T CABINET TO UTILITY APPROVAL	SPACE 3Ø	SPACE 3Ø

3 SUGGESTED CDP LAYOUT

SCALE: NTS

FIXTURE SCHEDULE											
#	TYPE	MANUFACTURER	CATALOGUE #	SPECIFIC OR GENERIC	DESCRIPTION OF FIXTURE	# LAMPS	LAMP TYPE	VOLTAGE	MOUNTING	DESCRIPTION OF LENS	REMARKS
1	LED	SHAPER	226-S-L3/835-120-MW-DMA10	GENERIC	LUMINOUS CLOUD	1	19W	120	WALL	-	120V DIMMABLE COMPATIBLE
2	LED	METALUX	4WNLED-LD4-40SL-F-UNV-L835-CD-1-U	GENERIC	STEELER LED	1	19W	120	SUSPENDED	-	0-10V DIMMABLE COMPATIBLE
3	LED	LUMARK	LD-WP-FC-4A-120V-BK	GENERIC	GLOBE	1	19W	120	CEILING	-	120V DIMMABLE COMPATIBLE
4	LED	SHAPER	635-14-W-L2/835-120V-MW-DMA10	GENERIC	WALL MOUNT 635 SERIES	1	14W	120	WALL	-	120V DIMMABLE COMPATIBLE
5	LED	LITHONIA	FEM4 LED 4L/35 IMACD 120V	GENERIC	LOW PROFILE GASKET	1	61W	120	CEILING	-	CRAWLSPACE FIXTURE
6	LED	NEO-RAY	S22-D-W-1-L35-SR-4-U-DD-SI-S92S-W	GENERIC	VANITY FIXTURES	1	7W	120	WALL	-	0-10V DIMMABLE COMPATIBLE
7	LED	-	-	GENERIC	ROPE LIGHTING	1	9 LEDS/5cm	12	UNDER NOSE	WARM WHITE	STAIRWAY A/B, CIRCLE 206
8	LED	LITHONIA	TWS LED 1 50K 120	GENERIC	OUTDOOR WALL MOUNT	1	19W	120	WALL	-	EXTERIOR DOOR FIXTURE
9	LED	SCHNEIDER	XB7EV04BP3	GENERIC	RED PILOT LIGHT	1	.65W	24	WALL	RED	FA SMOKE DETECTORS BYPASSED

4 FIXTURE SCHEDULE

SCALE: NTS

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES Pacific Region  
SERVICES IMMOBILIERS Région de Pacifique

**DORWARD ENGINEERING SERVICES LTD.**

CONSULTING ELECTRICAL ENGINEERS

NOTES:

- CONTRACTOR TO REPLACE DAMAGED BX CABLE ABOVE ATTIC SPACE ACCESS HATCH.
- PROVIDE DEDICATED CIRCUIT FOR EACH FLOOR BOX.
- SUPPLY ADDITIONAL CIRCUITS AND WIRING AS REQUIRED SO THAT NO MORE THAN FIVE (5) RECEPTACLES ARE SUPPLIED FROM A SINGLE CIRCUIT.
- ADD NEW RECEPTACLES WHERE SHOWN ON DRAWINGS.
- SHOW ALL CHANGES ON AS BUILT DRAWINGS.

*Palace Grand Theatre Foundation*

**PERMIT TO PRACTICE**

Signature: *[Signature]*  
Date: *Sept 11/2016*

**PERMIT NUMBER: PP001**  
Association of Professional Engineers of Yukon

8	ISSUE FOR TENDER	31 AUG 2016
7	ISSUED FOR 95% REVIEW	5 AUG 2016
Revision/	Description/Description	Date/Date
A	detail number	
B	source drawing no.	
C	detail on drawing no.	

Client/client

**PARK CANADA AGENCY**

WESTERN AND NORTHERN REGION

Project title/Titre du projet

**DAWSON CITY YUKON TERRITORY**

**PALACE GRAND THEATRE FOUNDATION/ MECHANICAL /ELECTRICAL RENOVATION AND GENERAL UPGRADE**

Consultant Signature Only

Designed by/Concept par  
MS

Drawn by/Dessiné par  
MS

PWGSC Project Manager/Administrateur de Projets TPSGC  
**TOM DUNPHY**

Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

**MECHANICAL ROOM AND ELECTRICAL SERVICE DETAILS**

Project No./No. du projet <b>R.068835.001</b>	Sheet/Feuille <b>E3 of 7</b>	Revision no./La Révision no. <b>8</b>
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