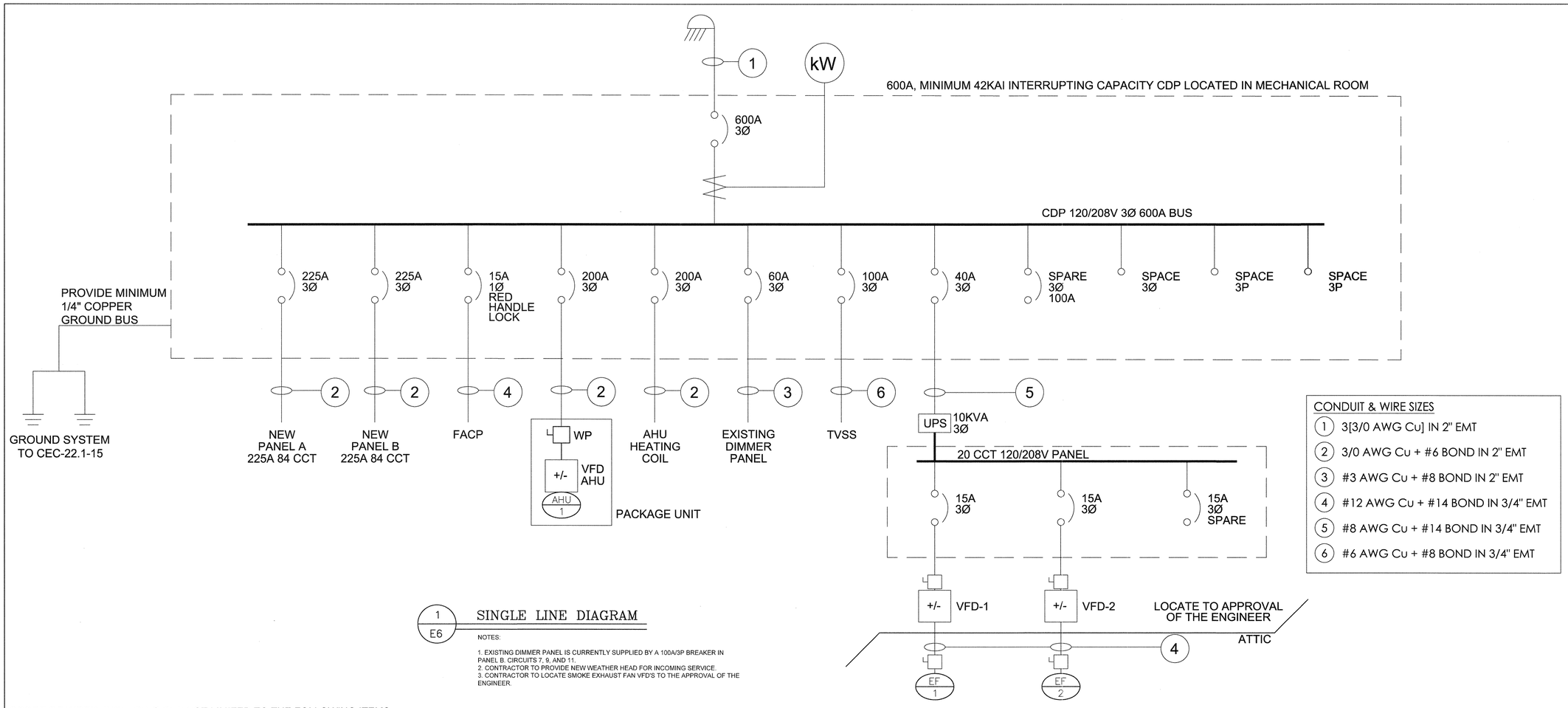


1 / E6 SINGLE LINE DIAGRAM

NOTES:

1. EXISTING DIMMER PANEL IS CURRENTLY SUPPLIED BY A 100A/3P BREAKER IN PANEL B. CIRCUITS 7, 9, AND 11.
2. CONTRACTOR TO PROVIDE NEW WEATHER HEAD FOR INCOMING SERVICE.
3. CONTRACTOR TO LOCATE SMOKE EXHAUST FAN VFD'S TO THE APPROVAL OF THE ENGINEER.

CONDUIT & WIRE SIZES

1. 3[3/0 AWG Cu] IN 2" EMT
2. 3/0 AWG Cu + #6 BOND IN 2" EMT
3. #3 AWG Cu + #8 BOND IN 2" EMT
4. #12 AWG Cu + #14 BOND IN 3/4" EMT
5. #8 AWG Cu + #14 BOND IN 3/4" EMT
6. #6 AWG Cu + #8 BOND IN 3/4" EMT

SCOPE OF WORK: INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS.

GENERAL

(1) ALLOW FOR FUTURE JACK LEVELING FOR ALL WIRING IN THE CRAWLSPACE. ALLOW FOR +/- 50mm DEFLECTION AT ANY CONNECTION POINT BETWEEN THE EARTH OR CRAWLSPACE SIDEWALLS AND THE BUILDING STRUCTURE. REFERENCE ARCHITECTURAL DETAILS.

(2) NEW WIRING IN HISTORIC PUBLIC AREAS IS TO BE INSTALLED IN WIRE MOLD, OR HIDDEN INSIDE BULKHEADS. CONDUIT IS ACCEPTABLE FOR ALL NEW WIRING IN CRAWLSPACE, MECHANICAL ROOM, AND NON PUBLIC AREAS.

(3) CONTRACTOR SHALL CAP AND MAKE SAFE ALL GENERATOR AND RELATED SYSTEMS, CABLES AND CONDUIT. GENERATOR HAS BE DECOMMISSIONED AND REMOVED BY OTHERS.

LIGHTING

(1) CONTRACTOR TO SUPPLY AND INSTALL NEW LED FIXTURES WHERE SHOWN ON DRAWINGS.

(2) IN AREAS NOT DESCRIBED ABOVE CONTRACTOR IS TO SUPPLY AND INSTALL NEW LAMPS IN BURNT OUT OR INOPERABLE LIGHT FIXTURES, AS DETERMINED ON SITE BY THE CONTRACTOR.

(3) PROVIDE LED STAIR TREAD LIGHTING FOR STAIRWAY A, STAIRWAY B, AND CIRCLE 206.

(4) CONTRACTOR TO PROVIDE A MINIMUM OF TEN (10) LED FIXTURES IN THE CRAWLSPACE WHERE SHOWN ON DRAWINGS.

(5) CAP AND MAKE SAFE ALL HOUSE LIGHTING PANELS CIRCUITS PRIOR TO RE INSULATION OF THE MECHANICAL ROOM.

POWER

(1) CONTRACTOR TO DISCONNECT, CAP, MAKE SAFE , AND PROTECT ALL EXISTING CIRCUITS IN MECHANICAL ROOM PRIOR TO RE INSULATION.

(2) EXISTING HOUSE LOAD CIRCUITS TO BE RECONNECTED INTO NEW 84 CCT PANEL ONCE BUILDING HAS BEEN RELOCATED. NEW PANEL TO BE LOCATED IN NEW MECHANICAL ROOM, AS SHOWN ON DRAWINGS.

(3) EXISTING MECHANICAL LOADS TO BE RECONNECTED INTO NEW 84 CCT PANEL ONCE BUILDING HAS BEEN REINSULATED. NEW PANEL TO BE LOCATED IN NEW MECHANICAL ROOM, AS SHOWN ON DRAWINGS.

(4) CONTRACTOR TO SUPPLY AND INSTALL NEW RECEPTACLES IN ALL LOCATION SHOWN ON DRAWINGS. ALLOW FOR 25% ADDITIONAL RECEPTACLES NOT SHOWN ON DRAWINGS IN BID PRICE.

(5) CONTRACTOR TO SUPPLY AND INSTALL NEW FLOOR BOX RECEPTACLES WHERE SHOW ON THE STAGE AND PINRAIL GALLERY.

(6) CONTRACTOR TO SUPPLY AND INSTALL A MINIMUM OF EIGHT (8) GFCI RECEPTACLES IN THE CRAWLSPACE WHERE SHOWN ON THE DRAWINGS.

(7) CONTRACTOR SHALL REPLACE ANY DAMAGES OR IMPROPERLY SECURED CONDUITS IN THE THEATRE. PROVIDE NEW MATERIAL AS REQUIRED.

(8) ALL RENOVATIONS AND NEW INSTALLATIONS ARE REQUIRED TO CONFIRM WITH CEC 2015, AND APPLICABLE CODES

FIRE ALARM

(1) CONTRACTOR TO SUPPLY AND INSTALL NEW, FULLY SUPERVISED AND ADDRESSABLE, CLASS A FIRE ALARM SYSTEM, COMPLETE WITH ALL NEW DEVICES.

(2) CONTRACTOR TO REMOVE END OF LINE RESISTORS, AND ASSOCIATED BOXES AND WIRING, AS NEW SYSTEM WILL BE CLASS A.

(3) ALL EXISTING NOTIFICATION DEVICES ARE TO BE REPLACED WITH NEW HORN STROBE COMBINATION.

(4) CONTRACTOR TO INSTALL CIRCUITS TO NEW DEVICES WHERE SHOWN ON THE DRAWINGS. WIRING IS TO BE INSTALLED IN WIRE MOLD IN ALL PUBLIC THEATRE LOCATIONS, AND INSTALLED IN CONDUITS IN STAFF ONLY AND HOUSE AREAS, NOT IN PUBLIC THEATRE AREAS.

(5) CONTRACTOR IS ADVISED TO INVESTIGATE CRAWLSPACE TO CONFIRM EXACT NUMBER OF FIRE ALARM DEVICES. CRAWLSPACE DEVICES TO BE REPLACED WITH NEW ADDRESSABLE DEVICES. CONTRACTOR TO REPORT CRAWLSPACE FINDINGS TO ENGINEER, FOR APPROPRIATE ADDITIONAL INSTRUCTIONS.

EMERGENCY LIGHTING

(1) CONTRACTOR TO DISCONNECT EXISTING EMERGENCY LIGHTING EQUIPMENT IN THE CENTER OF EXISTING MECHANICAL ROOM.

(2) WIRING TO EQUIPMENT SHALL BE DISCONNECTED. CAP, MAKE SAFE, AND PROTECT WIRING DURING MECHANICAL ROOM RE INSULATION.

(3) EQUIPMENT TO BE PROTECTED AND STORED DURING MECHANICAL ROOM RE INSULATION.

(4) RECONNECT EMERGENCY LIGHTING EQUIPMENT IN NEW MECHANICAL ROOM, AFTER RE INSULATION. CONTRACTOR TO CONFIRM INSTALLATION TO MEET MINIMUM CODE REQUIREMENTS.

MECHANICAL ROOM

(1) THE MECHANICAL ROOM WALLS ARE TO BE DEMOLISHED, RE INSULATED, AND RE CONSTRUCTED.

(2) CONTRACTOR TO DISCONNECT, CORRECTLY LABEL, CAP AND MAKE, SAFE ALL CIRCUITS AND PANELS IN THE MECHANICAL ROOM PRIOR WALL RECONSTRUCTION.

(3) ALL DISCONNECTED CIRCUITS ARE TO BE RECONNECTED INTO NEW OR EXISTING ELECTRICAL EQUIPMENT IN THE MECHANICAL ROOM, AS SHOWN ON THE PLANS.

(4) CONTRACTOR TO SUPPLY AND INSTALL TWO (2) NEW 84CCT 225A 3PH BREAKER PANEL TO REPLACE EXISTING ELECTRICAL PANELS IN THE MECHANICAL ROOM.

(5) CONTRACTOR TO SUPPLY AND INSTALL A NEW 200A DISCONNECT FOR AHU-1, AND AHU HEATING COIL.

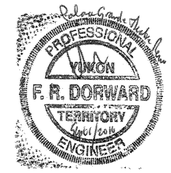
Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DORWARD ENGINEERING SERVICES LTD.
CONSULTING ELECTRICAL ENGINEERS

NOTES:

1. TRANSFER SWITCH WHICH IS TO BE REMOVED AND TURNED OVER TO THE OWNER.
2. COORDINATE EXACT LOCATION OF HEAT TRACE CONTROLLERS AND DISCONNECTS IN MECHANICAL ROOM.
3. NEW ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITH SPRAY SHIELDS.
4. CONTRACTOR TO DISCONNECT CIRCUITS PRIOR TO MECHANICAL ROOM WALL RE INSULATION. CAP, MAKE SAFE, AND PROTECT ALL LIGHTING PANEL CIRCUITS, JUNCTION BOXES, AND TERMINAL STRIPS. TYPICAL OF FORTY EIGHT (48) CIRCUITS. COORDINATE EXACT LOCATION OF NEW PANELS ON SITE.



Palace Grande Theatre Renovation
PERMIT TO PRACTICE
Signature
Date Sept 1/2016
PERMIT NUMBER: PP001
Association of Professional Engineers of Yukon

Revision/ Revision	Description/Description	Date/Date
8	ISSUE FOR TENDER	31 AUG 2016
7	ISSUED FOR 95% REVIEW	5 AUG 2016

A detail number / numéro de détail
B source drawing no. / de dessin no.
C detail on drawing no. / detail sur dessin 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/Dessine 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

SINGLE LINE DIAGRAM AND SCOPE OF WORK

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.068835.001	E6 of 7	8

PWGSC – A1 – 841X594

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