



- NOTES:
1. EXTEND EXISTING CONDUIT (EMT) TO NEW TC CABINET AND INSTALL AND TERMINATE NEW METERING WIRING.
ALL NEW WIRING TO BE IDENTIFIED BY COLOR AND UTILITY CTS AND PITS INTO NEW SWITCHGEAR.
 2. EXISTING SECONDARY SERVICE CONDUCTORS, GROUND AND NEUTRAL, TO BE REMOVED FROM EXISTING MAIN SWITCH BOARD AND RECONNECTED TO NEW SWITCH BOARD AND TO TERMINATE IN NEW SWITCHGEAR. PROVIDE ALL NECESSARY LUGS AND HARDWARE.
 3. THE NEW MAIN BREAKER/UTILITY ENCLOSURE IS TO BE POSITIONED DIRECTLY OVER EXISTING FEEDER. STURMED UNDER EXISTING CONCRETE TO BE REMOVED AND REINFORCED BENEATH MAIN BREAKER TO MATCH WITH EXISTING CONCRETE. EXISTING CONCRETE TO BE REINFORCED AS THEY STEP UP WELL ABOVE CONCRETE SLAB.
 4. AFTER THE EXISTING MAIN SWITCH BOARD IS REMOVED AND NEW FEEDER IS INSTALLED, THE FEEDER WILL BE TOO SHORT TO REACH THE NEW BREAKER. MODIFY AND RELOCATE EXISTING CONDUIT AND TERMINATE IN NEW BOARD. PULL IN AND COMMISSION NEW FEEDER.
 5. THE EXISTING TECK FEEDER CABLE TO THE CHILLER IS TO BE REMOVED BETWEEN THE EXISTING MAIN SWITCH BOARD AND EXISTING SWITCH BOARD. THE FEEDER CABLE TO NEW SPACE AREA MAIN ELECTRICAL ROOM-1A23, REMOVE EXISTING CABLE FROM CHILLER AND INSTALL NEW NEW SPAN ELMAC 3R JUNIORION CUB (48"-1000"). INSTALL NEW 1/2" O.D. CABLE THROUGH CHILLER ROOM. USE SIZE AS SHOWN, CORE DRILL, INTERSTITIAL SPACE FLOOR SLAB AND CHILLER ROOM. REMOVE ALL CONDUITS USING NON-SHRINK EPOXY GROUT.
 6. THE EXISTING FEEDER CABLE IS TO BE REMOVED FROM THE EXISTING MAIN SWITCH BOARD, PULLED BACK TO THE EXISTING MAIN SWITCH BOARD, AND RECONNECTED TO THE EXISTING MAIN SWITCH BOARD, AND TERMINATED. THE CONTRACTOR IS TO ALLOW FOR THE WELDING OF THE EXISTING MAIN SWITCH BOARD, WHERE CONDUCTORS ARE TOO SHORT TO REACH THE EXISTING MAIN SWITCH BOARD. THE CONTRACTOR IS TO COMPLY OF COMPRESSION TYPE WITH TWO LAYERS OF 1/2" O.D. SHIELDING HEAT SHRINKING IS TO OVERLAP BY 100mm ON EACH SIDE.
 7. THE EXISTING GENERATOR AND PANEL, D-0301 ARE TO BE REMOVED FROM THE EXISTING MAIN SWITCH BOARD. THE EXISTING NORMAL POWER FEEDER TO BE DISCONNECTED TO THE EXISTING MAIN SWITCH BOARD, AFTER THE SECOND WELDED SHUT DOWN CAN BE COMPLETED. THE CONTRACTOR WILL REMOVE THE EXISTING GENERATOR. THE CONTRACTOR WILL RE-FEED PANEL, D-0301 WITH A NEW FEEDER TO BE REMOVED FROM TRANSFER SWITCH AND OLD GENERATOR CONNECTION.
 8. SUPPLY AND INSTALL NEW BREAKER IN EXISTING PANEL.
 9. THE SHUT DOWN OF THE EXISTING MAIN SWITCH BOARD IS TO BE COORDINATED AND SCHEDULED THROUGH CHILLER AND MAIN SWITCH BOARD. THE CONTRACTOR IS REQUIRED TO START AT 9:00pm ON A FRIDAY NIGHT, WITH WORK TO BE COMPLETED BY 11:00 PM. THE MAIN SWITCH BOARD IS TO BE COMMISSIONED AND IN SERVICE BY 11:00 PM.



revisions		date
project		project

CFIA LABORATORY
WALL CLADDING,
ROOFING AND
GENERATOR REPLACEMENT
DARTMOUTH, N.S.

drawing dessin

ELECTRICAL NEW SINGLE LINE DIAGRAM

designed R. O'CONNOR

date OCTOBER 2015

drawn	J. CAMPBELL	dessin
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date OCTOBER 2015

approved	—	approuv
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date _____

Tender	Soumission
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PWGSC Project Manager Administrateur de projets TPSG

project number	no. du projet
110011	

H0014

drawing no. no. du dessin

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