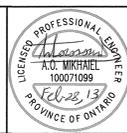


- SEQUENCE OF IMPLEMENTATION - STAGE 4**
1. PROVIDE UNDERGROUND DUCT BANK AS INDICATED.
 2. PROVIDE NEW GENERATOR G1 COMPLETE WITH WALK-IN ENCLOSURE AND ALL ASSOCIATED ELECTRICAL EQUIPMENT AS INDICATED.
 3. PROVIDE WIRE AND CONDUIT FROM GENERATOR TO ESB-1 AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR CONNECTIONS DETAILS.
 4. PROVIDE TEMPORARY GENERATOR AND CONNECT TO ESB-1 AS INDICATED. TEMPORARY GENERATOR IS TO BE SUPPLIED FOR THE ENTIRE TIME UNTIL SECOND GENERATOR RELOCATED FROM 875 HERON RD SITE AND CONNECTED TO THE ELECTRICAL DISTRIBUTION SYSTEM.
 5. SET THE SWITCHBOARD ESB-1 ATS SCHEME TO MANUAL MODE WITH GENSET 1 AS THE PREFERRED SOURCE.
- SEQUENCE OF IMPLEMENTATION - STAGE 5**
1. PROVIDE CONDUIT AND WIRING FOR THE NEW FIRE ALARM AND SECURITY SYSTEM IN THE ENCLOSURE TO INTERCONNECT WITH THE EXISTING FIRE ALARM AND SECURITY PANEL IN THE BUILDING AS INDICATED.
 2. ARRANGE WITH DEPARTMENTAL REPRESENTATIVE SWERS IN ADVANCE FOR MAXIMUM OF AHEAD-TIME FOR EXISTING PANEL BP-2 TO ADD NEW BREAKER AS INDICATED.
 3. PROVIDE POWER SOURCE TO 600V PANEL P-1 AS INDICATED. ENERGIZE AND COMMISSION GENSET AND ALL AUXILIARY GENSET EQUIPMENT IN THE ENCLOSURE.
- NOTES:**
1. PROVIDE GENERATOR G1 AND SWITCHGEAR ASSEMBLY IN WALK-IN ENCLOSURES INSTALLED ON SITE. PROVIDE ALL POWER, GROUNDING, CONTROL AND FIRE ALARM SYSTEM CONNECTIONS AS INDICATED.
 2. PROVIDE AUTOMATIC TRANSFER SWITCH CONTROL TO ACHIEVE 2 OUT OF 3 FUNCTIONS.
 3. PROVIDE PANELS P-1, P-1A, TRANSFORMER, CONDUIT AND WIRE AS INDICATED. CONNECT TO PANEL BP-2 INSIDE THE BUILDING. PROVIDE NEW BREAKER 60A-3P, 35kA-IC IN PANEL BP-2 TO ACCOMMODATE NEW PANEL P-1. REFER TO DRAWING E5 FOR ADDITIONAL DETAILS.
 4. PROVIDE TEMPORARY MOBILE GENERATOR AND CONNECT TO ELECTRICAL DISTRIBUTION SYSTEM THROUGH SPLITTER BOX AS INDICATED. MOBILE GENERATOR IS TO BE AVAILABLE UNTIL COMPLETION WORK ON GENERATOR G2. PROVIDE MOBILE GENERATOR FEEDERS ABOVE GROUND COMPLETE WITH PROTECTIVE COVER.

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E12 POWER DISTRIBUTIONS MODIFICATIONS SINGLE LINE DIAGRAM - STAGE 4 & 5

SCALE 1:100



révisions	description	date
00	ISSUED FOR TENDER	FEB 28, 2013

A	A: initial no. no. de détail	A
C	C: location drawing no. no. de plan	B/C
	C: drawing no. dessin no.	

project: **GOVERNMENT OF CANADA**
project: **TURBINE REPLACEMENT**

drawing: **ELECTRICAL - SINGLE LINE DIAGRAM STAGE 4 AND 5**

designed:	A.M./M.E.M.	conçu:
date:		
drawn:	M.E.M./I.M.	dessiné:
date:		
revised:	M.E.M.	révisé:
date:		
approved:	A.M.	approuvé:
date:		

Tender: **C. CAMPBELL** Soumission
PWC Project Manager Administrateur de projet
project no.:
R.055763.002
drawing no.:
no du dessin