

**Ausenco**

THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL FOR THE PRIVATE INFORMATION OF PUBLIC WORKS CANADA FOR USE ONLY FOR THE PROJECT FOR WHICH IT WAS PREPARED AND ARE NOT TO BE RELIED UPON OR USED IN WHOLE OR IN PART FOR OTHER PURPOSES OR BY OR FOR THE BENEFIT OF OTHERS WITHOUT PRIOR ADAPTATION AND SPECIFIC WRITTEN VERIFICATION BY AUSENCO SANDWELL

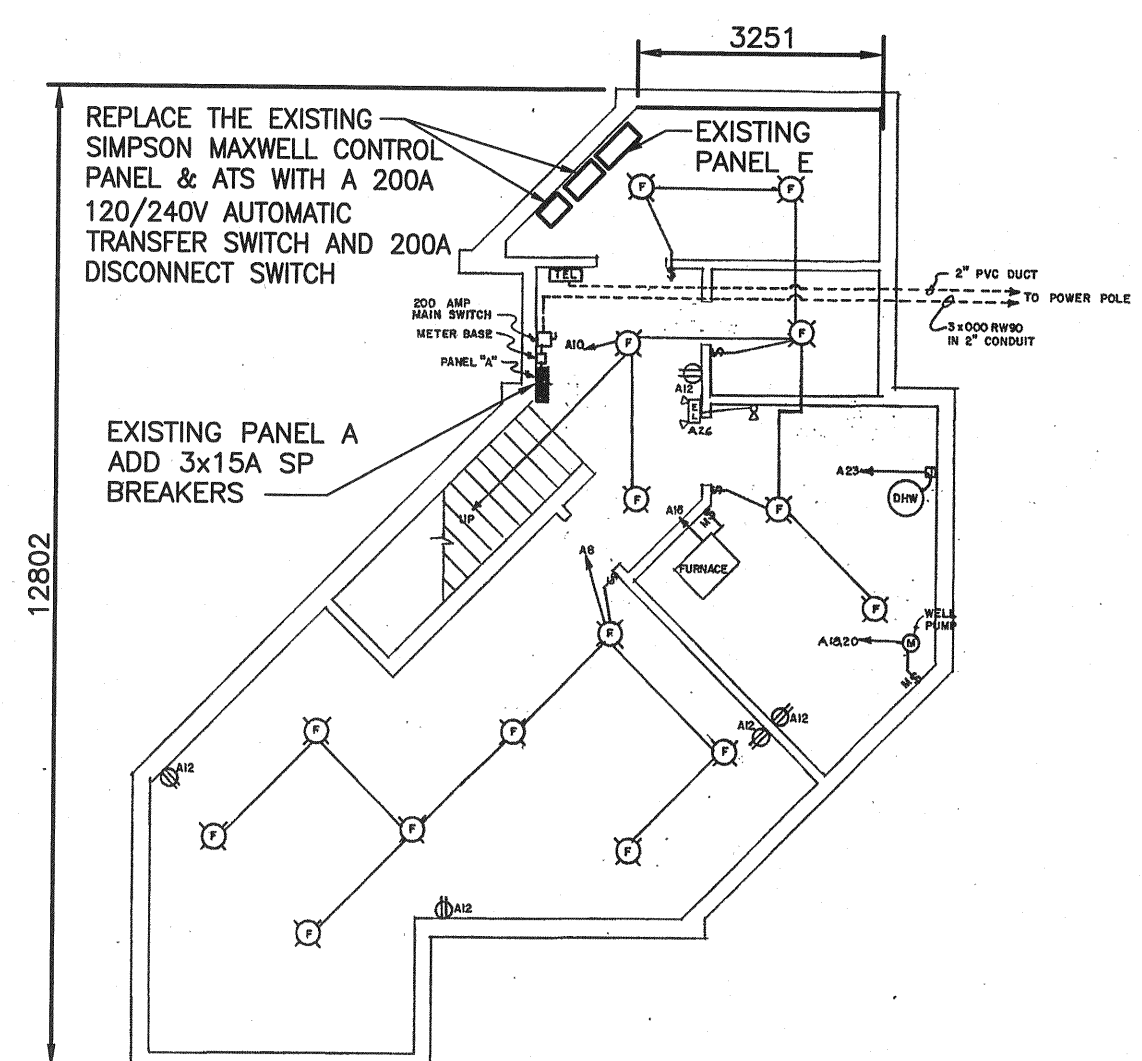
CAD FILE No.: 114787-007-E02  
AUSENCO PROJECT No.: 102967-01

**LEGEND:**

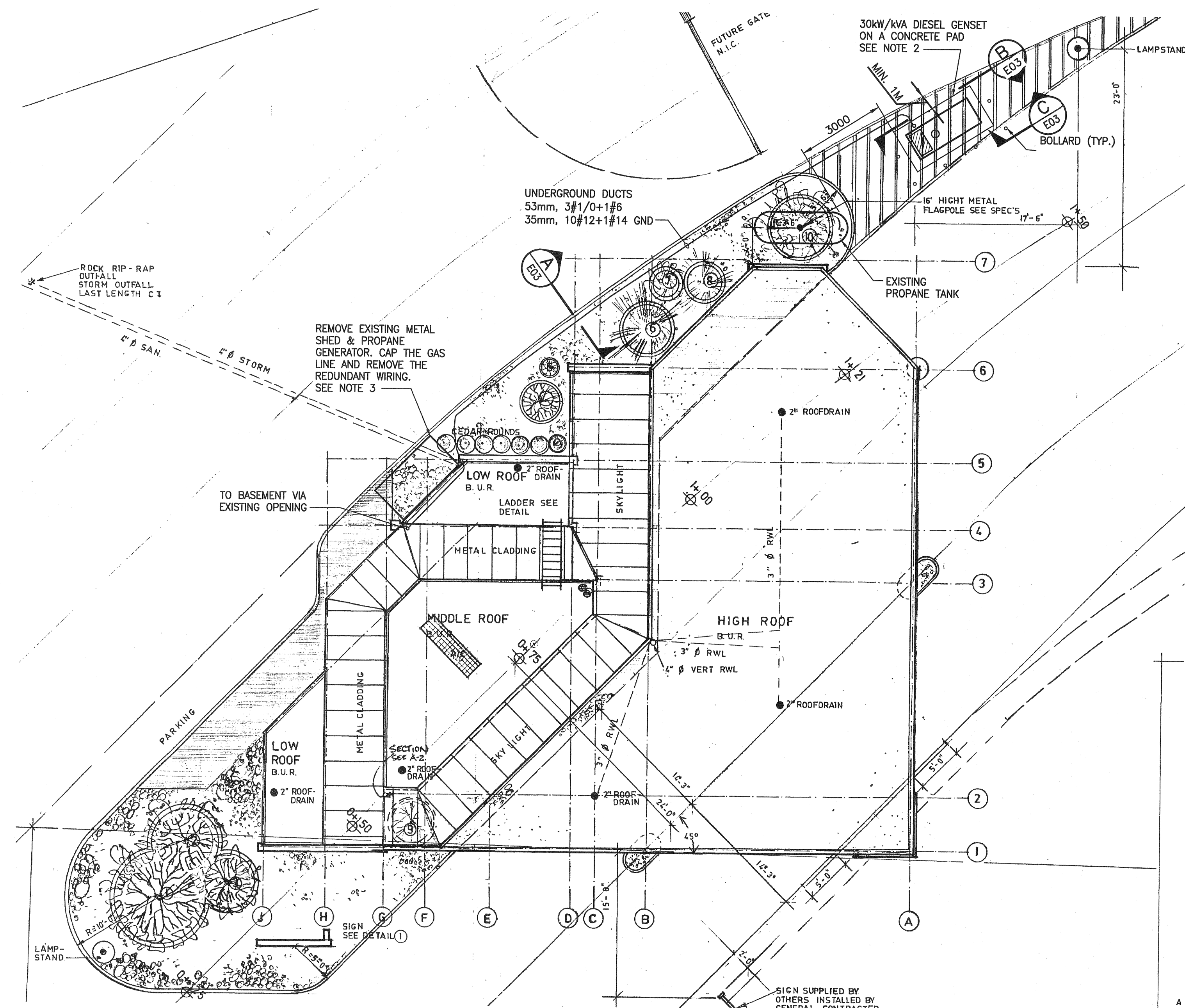
- DOTTED LINE DENOTE EXISTING INSTALLATION
- SOLID LINE DENOTED NEW INSTALLATION
- ATS AUTO TRANSFER SWITCH
- (—) CIRCUIT BREAKER
- (—) CURRENT TRANSFORMER
- (—) FUSE
- (—) POTENTIAL TRANSFORMER
- Ⓜ BCH METER
- ⓐ GENERATOR

**PROPOSED WORK SEQUENCE**

1. SUBMIT GANTT CHART AND SHOP DRAWINGS.
2. INSTALL A 30 KW DIESEL GENERATOR TO BACK UP THE EXISTING 200A 120/240V MAIN SERVICE AND TRANSFER SWITCH.
3. REMOVE THE EXISTING 12.5 KW PROPANE GENERATOR AND METAL ENCLOSURE. REPAIR ALL THE DAMAGED WALL AND PAVEMENT IN THE METAL SHED AREA TO MATCH THE SURROUNDING AREA.
4. DISPOSE EXISTING REDUNDANT EQUIPMENT AND GENSET IN ACCORDANCE WITH SECTION 01 74 19 - CONSTRUCTION DEMOLITION WASTE MANAGEMENT AND DISPOSAL.
5. REPAIR ALL DAMAGED FLOORS, WALLS AND PAVEMENTS. PAINT THE REQUIRED SURFACES TO MATCH THE EXISTING COLOUR.
6. SCHEDULE ALL POWER INTERRUPTIONS AFTER THE OPERATION HOURS WITH WRITTEN APPROVAL FROM CBSA/PWGSC REPRESENTATIVE.
7. SUBMIT A DETAILED WORK PLAN, OF THE SYSTEM CUT OVER, FOR CBSA/PWGSC REVIEW AND APPROVAL.
8. GRP FOR EXISTING U/G INSTALLATION PRIOR TO ANY EXCAVATION.



**BASEMENT FLOOR PLAN**  
SCALE: 1:100



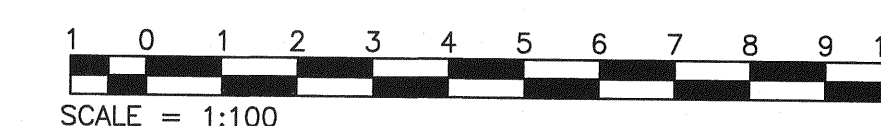
**ELECTRICAL SITE PLAN**  
SCALE: 1:100



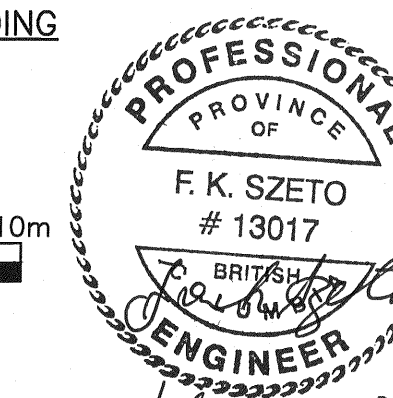
THE 30 KW GENSET TO BE LOCATED IN THE ASPHALT AREA, EAST OF THE EXISTING PROPANE TANK (REMOVE & REPAIR EXISTING ASPHALT)



REMOVE EXISTING 12 KW GENERATOR AND THE WOOD STRUCTURE ATTACHED TO WANETA BORDER CROSSING BUILDING



SCALE = 1:100



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18/07/20

Client/client: CANADA BORDER SERVICE AGENCY

Project title/Titre du projet: 10290 HWY 22A, KOOTENAY, BC CBSA WANETA CUSTOM BORDER CROSSING GENERATOR REPLACEMENT

Designed by/Concept par: FRANK SZETO  
Drawn by/Dessiné par: M.G./2013-03-15  
PWGSC Project Manager/Administrateur de Projets TPSGC: NEDA NADERI  
Regional Manager, Architectural and Engineering Services/Chef de file régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

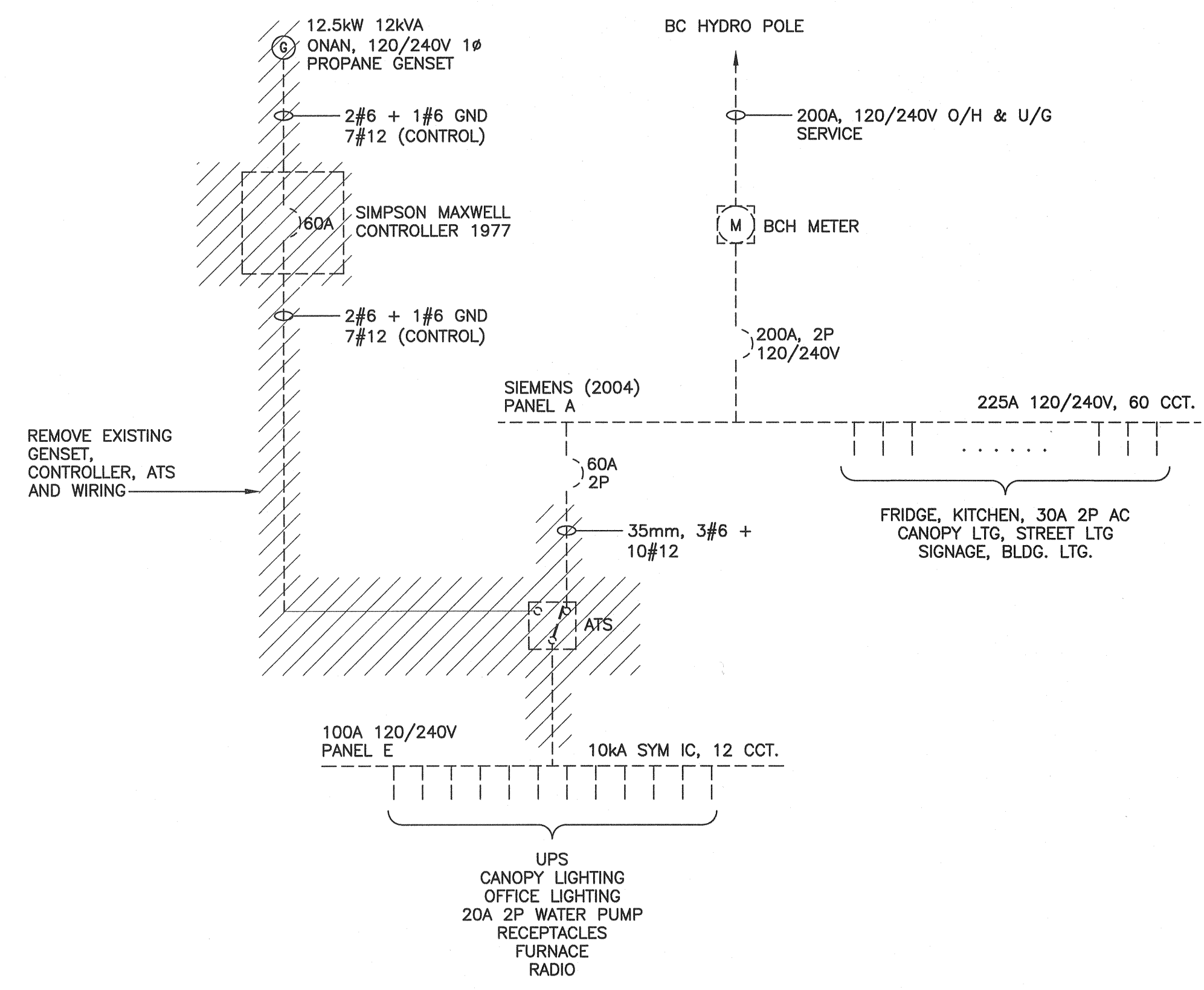
Drawing title/Titre du dessin: SITE PLAN ELECTRICAL

Project No./No. du projet: R.089489.001	Sheet/Feuille: E01 OF 3	Revision no./La Révision no.: 0
---	-------------------------	---------------------------------

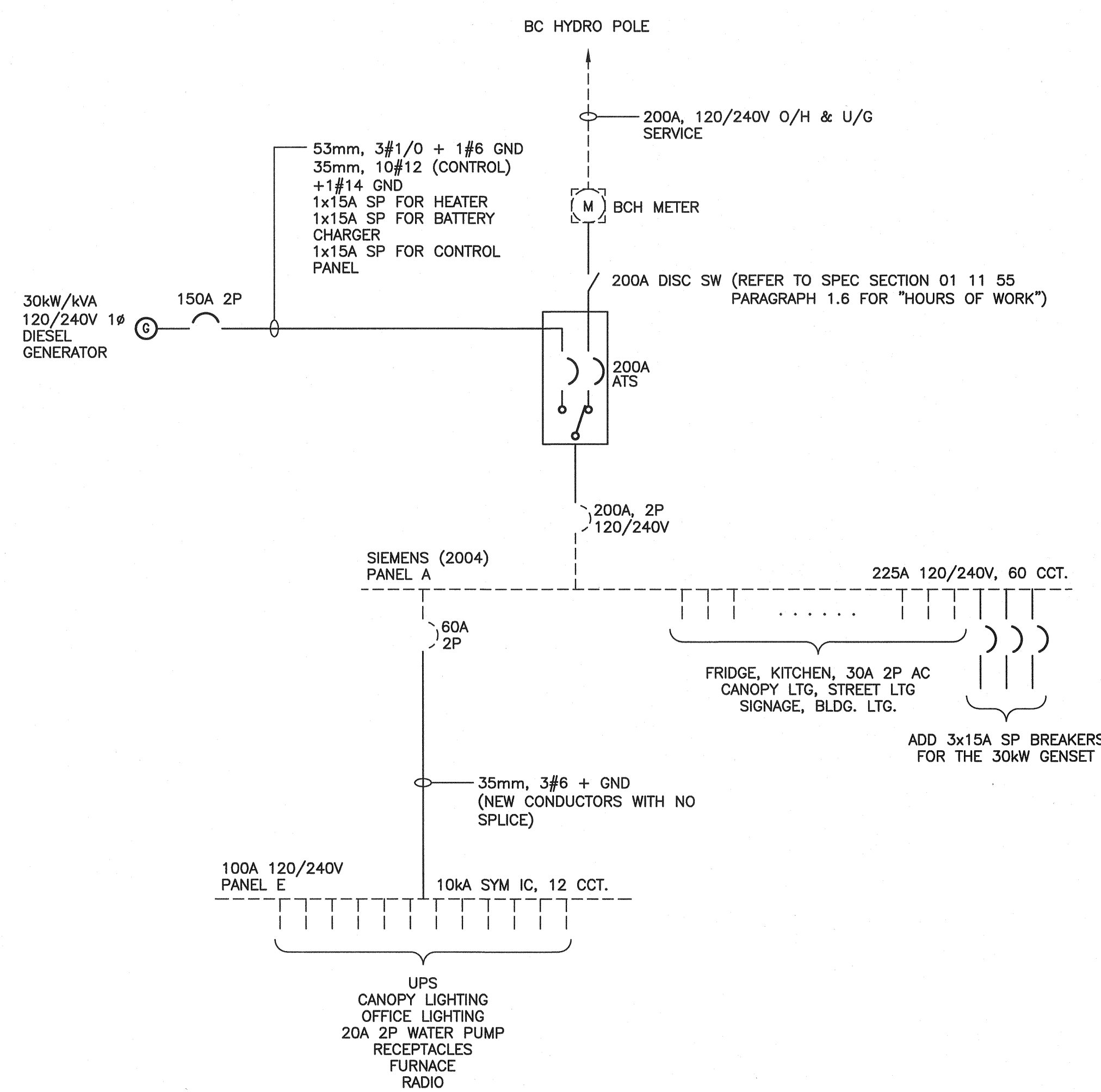
# Ausenco

THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL FOR THE PRIVATE INFORMATION OF PUBLIC WORKS CANADA FOR USE ONLY FOR THE PROJECT FOR WHICH IT WAS PREPARED AND ARE NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART FOR OTHER PURPOSES OR BY OR FOR THE BENEFIT OF OTHERS WITHOUT PRIOR ADAPTATION AND SPECIFIC WRITTEN VERIFICATION BY AUSENCO SANDWELL

CAD FILE No.: 114787-007-E02  
AUSENCO PROJECT No.: 102967-01



**EXISTING SINGLE LINE DIAGRAM**  
SCALE: N.T.S.



**NEW SINGLE LINE DIAGRAM**  
SCALE: N.T.S.

**THE PROPOSED POWER CUTOVER SEQUENCE:**

- DO ALL THE PREP WORK FOR INSTALLATION FOR NEW GETSET ETC. SUCH AS ALL THE WIRING INCLUDING INSTALLATION OF NEW FEEDER TO PANEL 'E'.
- REMOVING EXISTING ATS AND RE-FEED PANEL 'E' FROM PANEL 'A' (THIS WORK IS TO BE DOWN AFTER HOURS).
- INSTALL & CONNECT A TEMPORARY 30kW GETSET WITH ADEQUATE FUEL (FOR AT LEAST A FEW DAYS) TO SUPPORT THE ENTIRE SITE. TURN THE 200A MAIN BREAKER OFF AND LOCK IN OFF POSITION. FEED PANEL 'A' FROM THE TEMPORARY GENERATOR. ALL THIS WORK TO BE DONE AFTER HOURS.
- ARRANGE FOR BCH TO BE ON SITE THE NEXT DAY TO DISCONNECT POWER TO THE SITE TO ALLOW ADDITION OF NEW MAIN DISCONNECT SWITCH AND ATS.
- ARRANGE FOR BCH TO RECONNECT POWER AS SOON AS THE ABOVE WORK IS COMPLETED. TEST THE GENERATOR AND ATS (WITH LOAD BANK) TO ENSURE BOTH GENSET AND ATS FUNCTION PROPERLY.
- AFTER ALL TESTS ARE SATISFACTORILY COMPLETED, REMOVE THE TEMPORARY GENERATOR AND CONNECT PANEL 'A' TO THE ATS.



0	ISSUED FOR TENDER	18/07/20
---	-------------------	----------

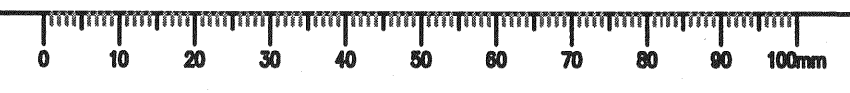
**CANADA BORDER SERVICE AGENCY**

Project title/Titre du projet  
**10290 HWY 22A, KOOTENAY, BC  
CBSA WANETA  
CUSTOM BORDER CROSSING  
GENERATOR REPLACEMENT**

Consultant Signature Only  
Designed by/Concept par  
**FRANK SZETO**  
Drawn by/Dessiné par  
**M.G./2013-03-15**  
PWGSC Project Manager/Administrateur de Projets TPSSC  
**NEDA NADERI**  
Regional Manager, Architectural and Engineering Services  
Chef de bureau régional, Services d'architecture et de génie, TPSSC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**SINGLE LINE DIAGRAMS**

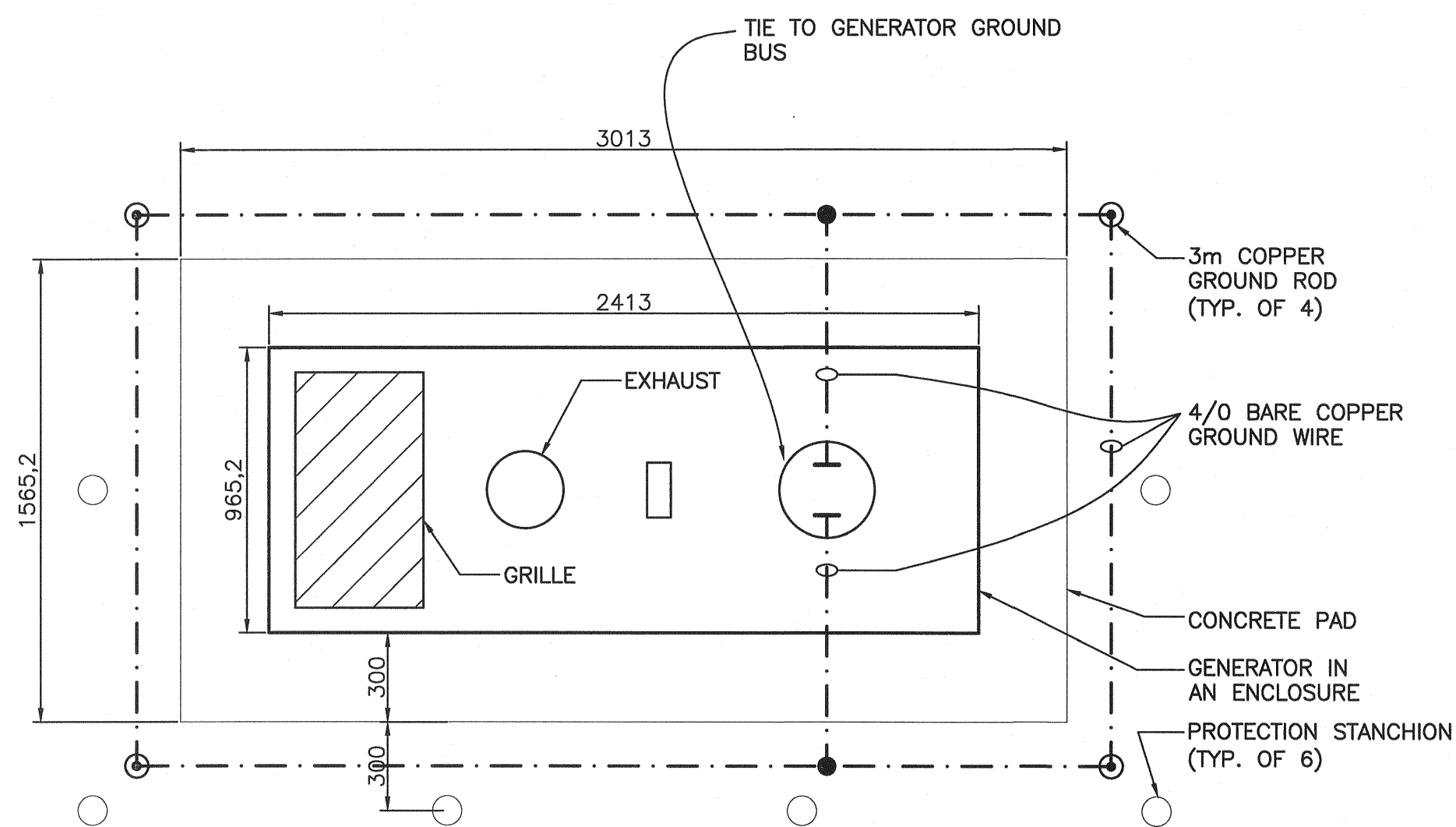
Project No./No. du projet <b>R.089489.001</b>	Sheet/Feuille <b>E02</b> OF 3	Revision no./no. de la Révision <b>0</b>
--	-------------------------------------	---



**Ausenco**

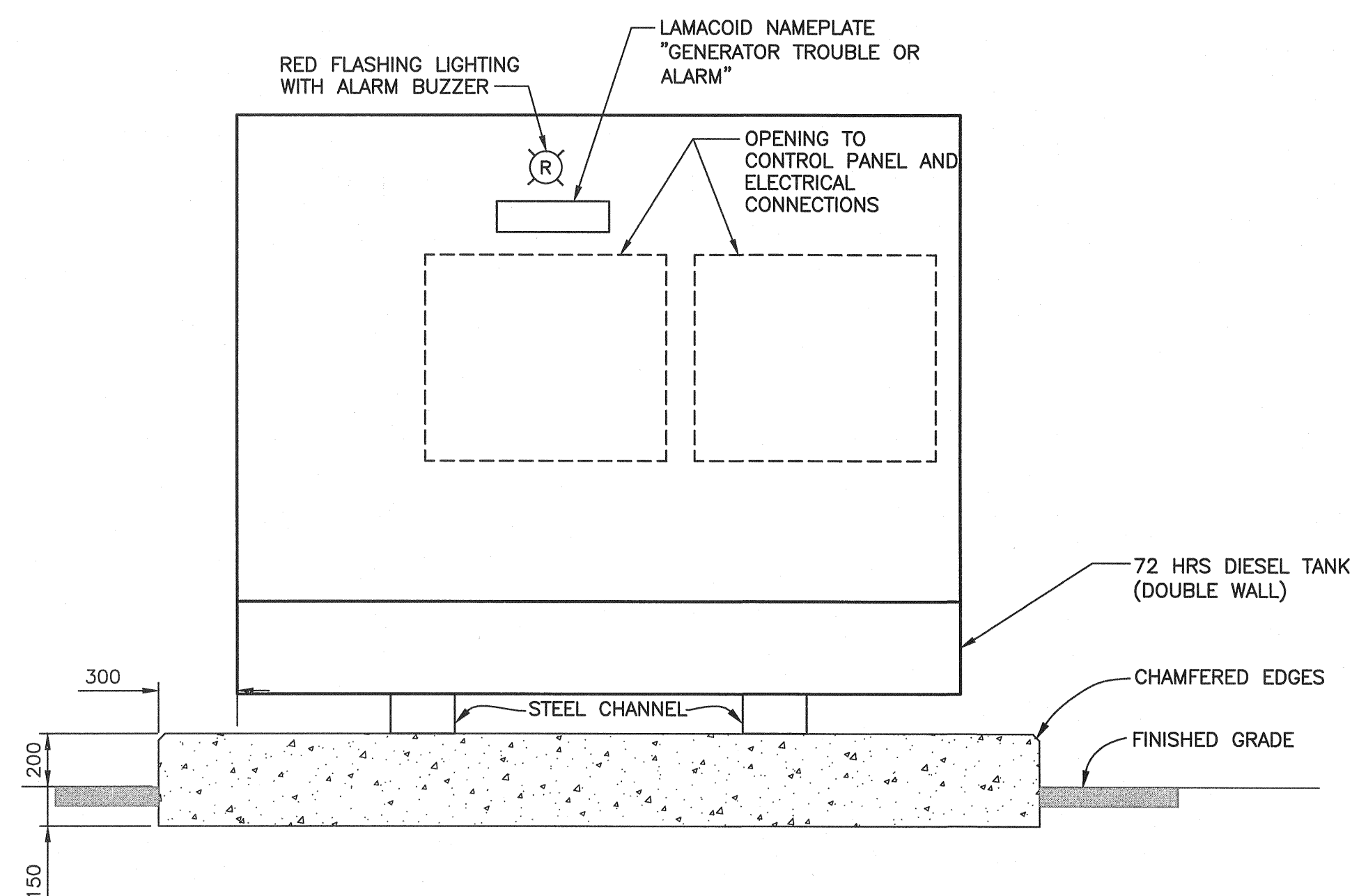
THIS DRAWING AND ITS CONTENTS ARE CONFIDENTIAL FOR THE PRIVATE INFORMATION OF PUBLIC WORKS CANADA FOR USE ONLY FOR THE PROJECT FOR WHICH IT WAS PREPARED AND ARE NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART FOR OTHER PURPOSES OR BY OR FOR THE BENEFIT OF OTHERS WITHOUT PRIOR ADAPTATION AND SPECIFIC WRITTEN VERIFICATION BY AUSENCO SANDWELL

CAD FILE No.: 114787-007-E03  
AUSENCO PROJECT No.: 102967-01



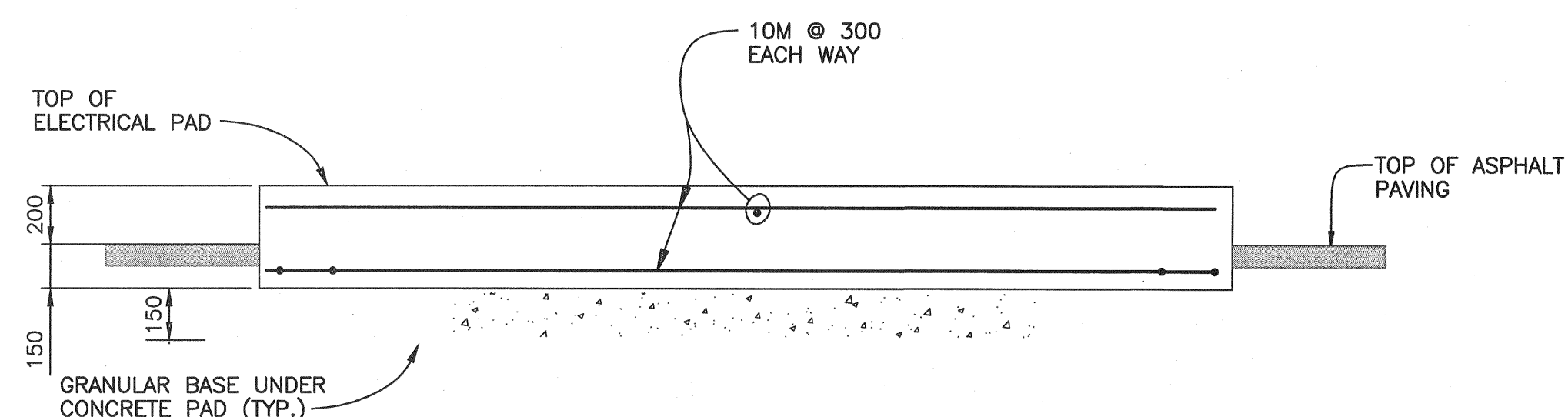
**30kW DIESEL GENERATOR WITH SOUND ATTENUATED ENCLOSURE AND 72 HRS DIESEL TANK**

SCALE 1:50



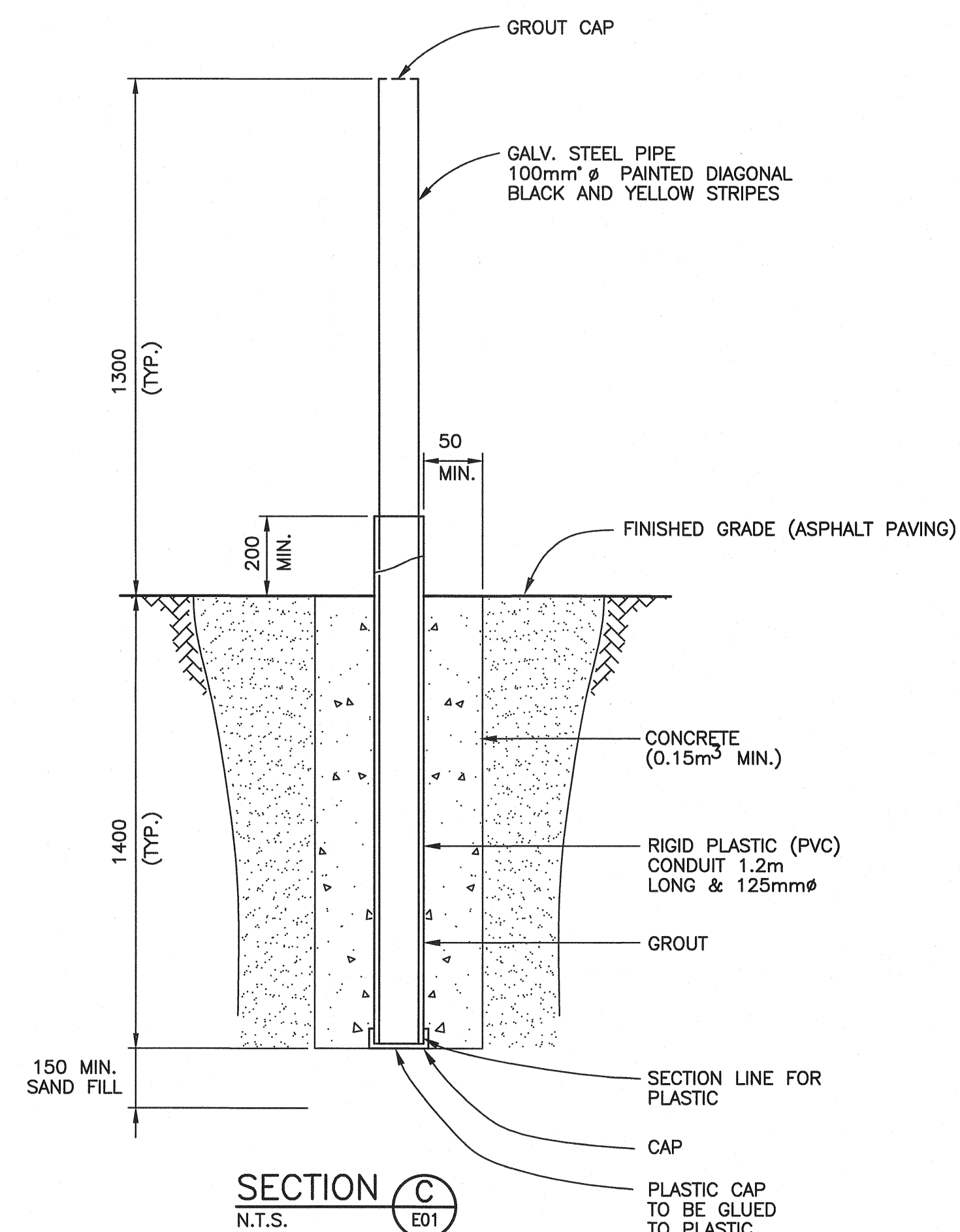
**30kVA GENERATOR ELEVATION (B)**

N.T.S. WITH A SOUND ATTENUATED ENCLOSURE AND 72 HRS FUEL TANK



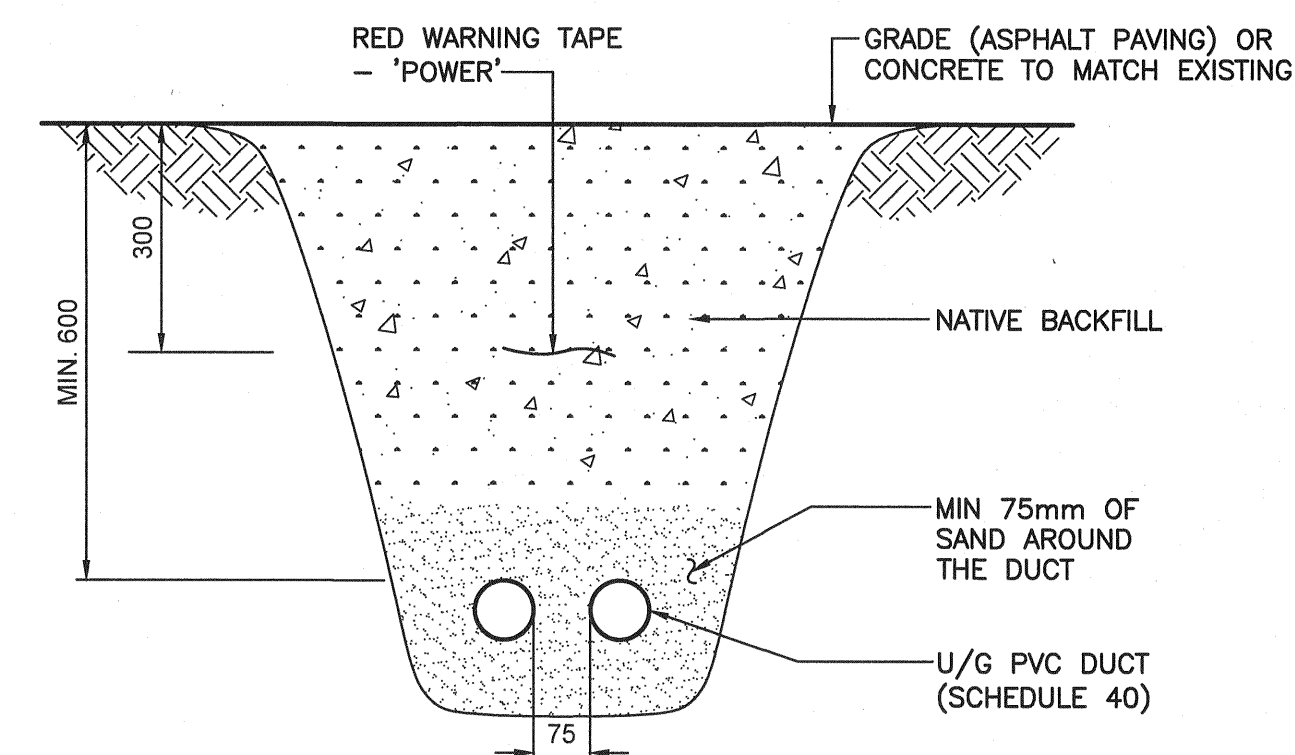
**TYPICAL CONCRETE PAD DETAILS**

N.T.S. FOR DIESEL GENERATOR



**SECTION C (E01)**

(THE PLASTIC CONDUIT MUST BE INSTALLED TO INSULATE THE PIPE AND THUS PREVENT TRANSFER OF DANGEROUS TOUCH POTENTIAL IN THE EVENT OF A FAULT)



**UNDERGROUND DUCT SECTION (A)**

N.T.S.

Revision/Description	Date/Date
0 ISSUED FOR TENDER	18/07/20

Client/Client: **CANADA BORDER SERVICES AGENCY**

Project Title/Titre du projet: **10290 HWY 22A, KOOTENAY, BC CBSA WANETA CUSTOM BORDER CROSSING GENERATOR REPLACEMENT**

Consultant Signature Only

Designed by/Concept par: **FRANK SZETO**

Drawn by/Dessiné par: **M.G./2013-03-15**

PWGSC Project Manager/Administrateur de Projets TPSGC: **NEDA NADERI**

Regional Manager, Architectural and Engineering Services: **PREETIPAL PAUL**

Drawing Title/Titre du dessin: **SECTIONS AND DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./Révision no.
<b>R.089489.001</b>	<b>E03</b>	<b>0</b>

OF 3

