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ELECTRICAL ROOM NOTES

1. EXISTING MANUAL TRANSFER SWITCH TO BE REPLACED BY NEW AUTOMATIC TRANSFER SWITCH IN THE SAME LOCATION.
2. EXISTING MAIN 200A FUSED DISCONNECT SWITCH TO REMAIN
3. EXISTING MCC TO REMAIN
4. UNDERGROUND CONDUITS FROM GENERATOR TO THE ELECTRICAL ROOM. CONDUITS SHALL RUN VERTICALLY UP THE EXTERIOR WALL OF THE BUILDING AND ENTER THE BUILDING NEAR CEILING HEIGHT. ROUTE THROUGH BUILDING TO THE AUTOMATIC TRANSFER SWITCH.
5. EXISTING 100A 120/240V 3P4W PANEL TO REMAIN
6. EXISTING FUSED DISCONNECT SWITCHES FOR THREE (3) SUMP PUMPS TO REMAIN
7. GENERATOR QUICK CONNECT BOX TO BE DEMOED
8. NEW 175kW GENERATOR
9. NEW CONCRETE PAD FOR GENERATOR. REFER TO DETAILS 1/E-2, 3/E-2, AND THE GEOTECHNICAL REPORT BY FRONTERA GEOTECHNICAL ISSUED ON JUNE 16, 2025 TO COMPLETE DESIGN. CONTRACTOR SHALL ENGAGE A PROFESSIONAL STRUCTURAL ENGINEER TO DESIGN CONCRETE PAD. PROVIDE LETTERS OF ASSURANCE.

3. TENDER	10.03.2026
2. RE-ISSUED FOR CLIENT REVIEW	08.08.2025
1. ISSUED FOR CLIENT REVIEW	15.07.2025

REVISION DD/MM/YYYY



CONSULTANT: 2025594

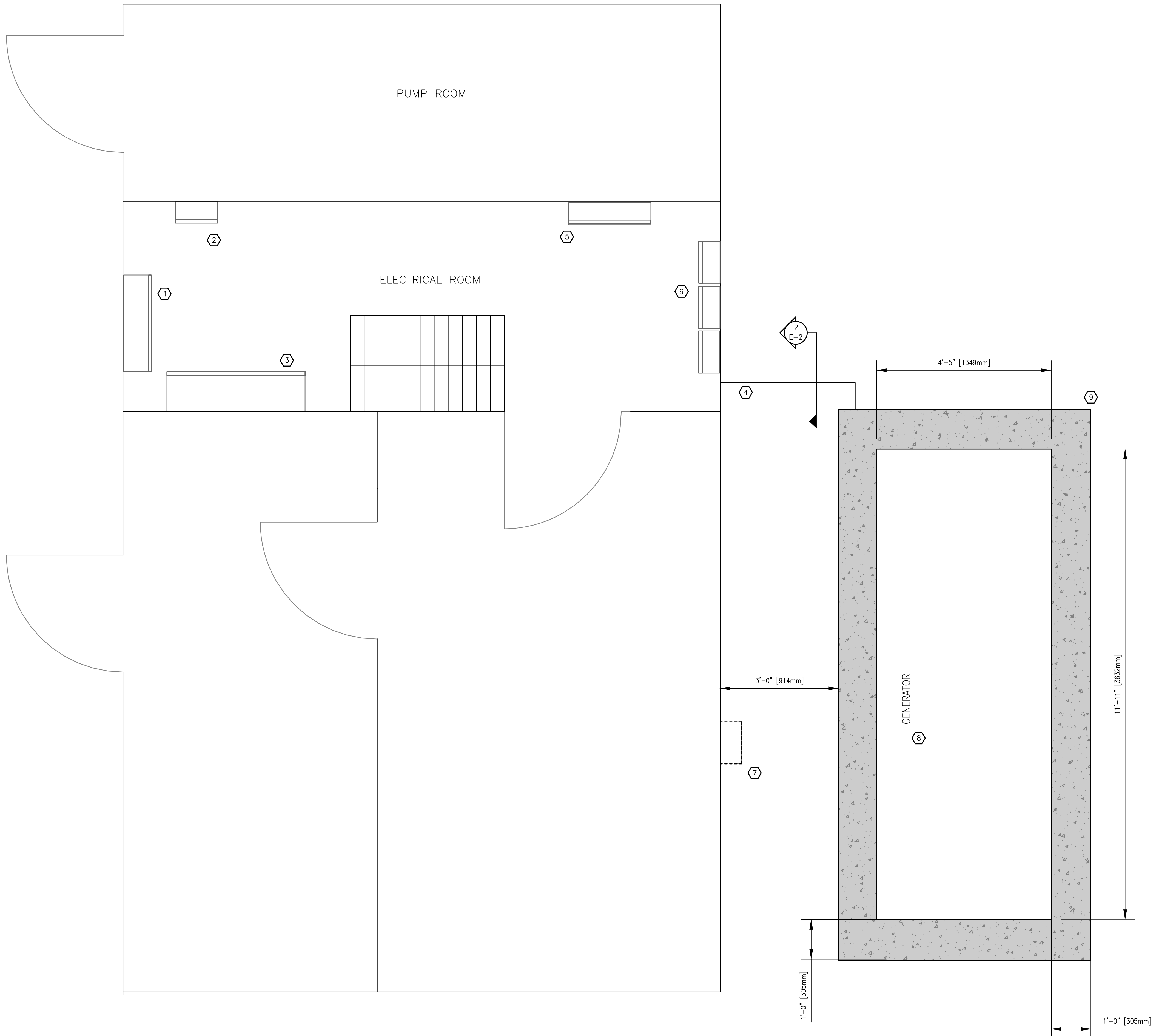


Prism Engineering
 220 - 3605 Gilmore Way
 Burnaby, B.C. V5G 4X5
 Tel: 604-298-4858
 Fax: 604-298-8143

PROJECT:
SCRD-GARDEN BAY GENERATOR
 4470 GARDEN BAY ROAD
 GARDEN BAY, BC V0N 2H1

DRAWING TITLE:
GARDEN BAY WATER TREATMENT SECTION

DATE: AUGUST 2025	REV. NO. 3
DRAWN BY: AA	CHECKED BY: AB
SCALE: AS NOTED	
DRAWING NO. E-1	



1
 E-1 GARDEN BAY WATER TREATMENT SECTION
 SCALE: 3/4"=1'-0"

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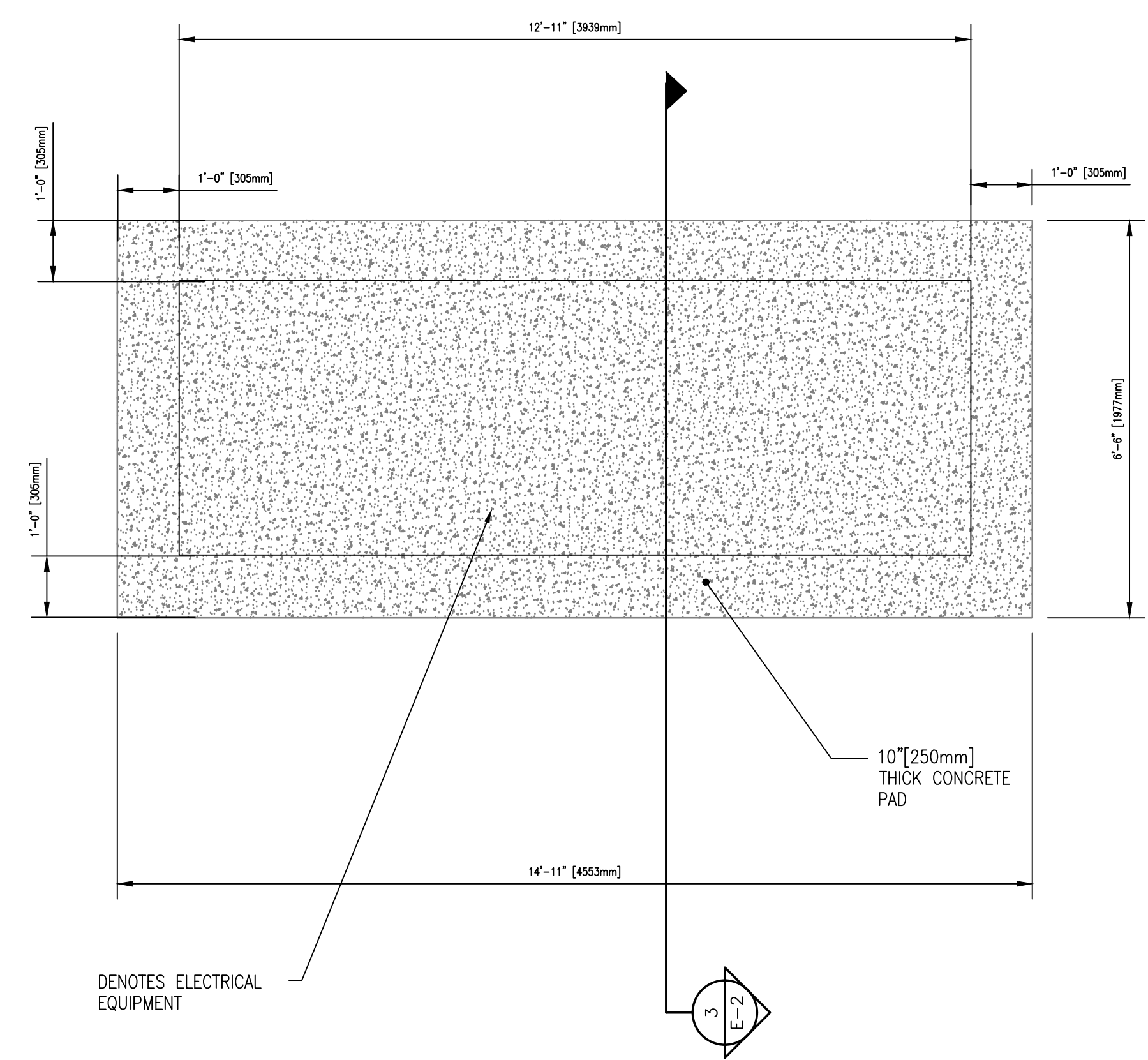
GENERAL NOTES

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF WORKERS AND THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS TABULATED IN THE DESIGN NOTES.
3. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE BRITISH COLUMBIA BUILDING CODE 2012.
4. CONFIRM ALL MEASUREMENTS AND ELEVATIONS ON SITE.
5. BEARING SURFACES TO BE REVIEWED BY GEOTECHNICAL.

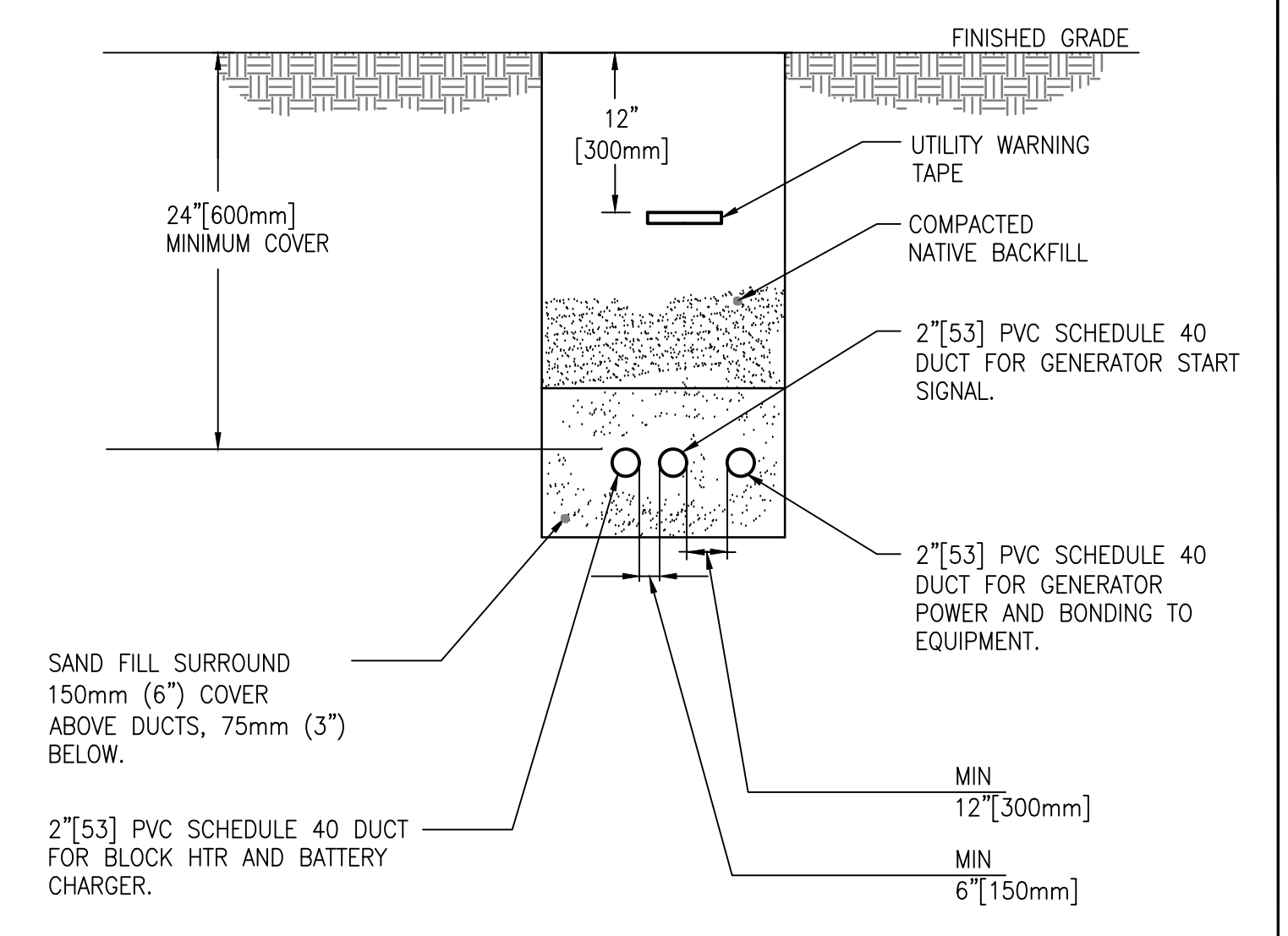
CONCRETE NOTES

1. **CAST-IN-PLACE CONCRETE**
 - a. CONCRETE: CONFIRM TO CSA-A23.1-09, NORMAL WEIGHT, MEETING THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE.
 - b. USE TYPE GU PORTLAND CEMENT FOR ALL CONCRETE UNLESS NOTED OTHERWISE.

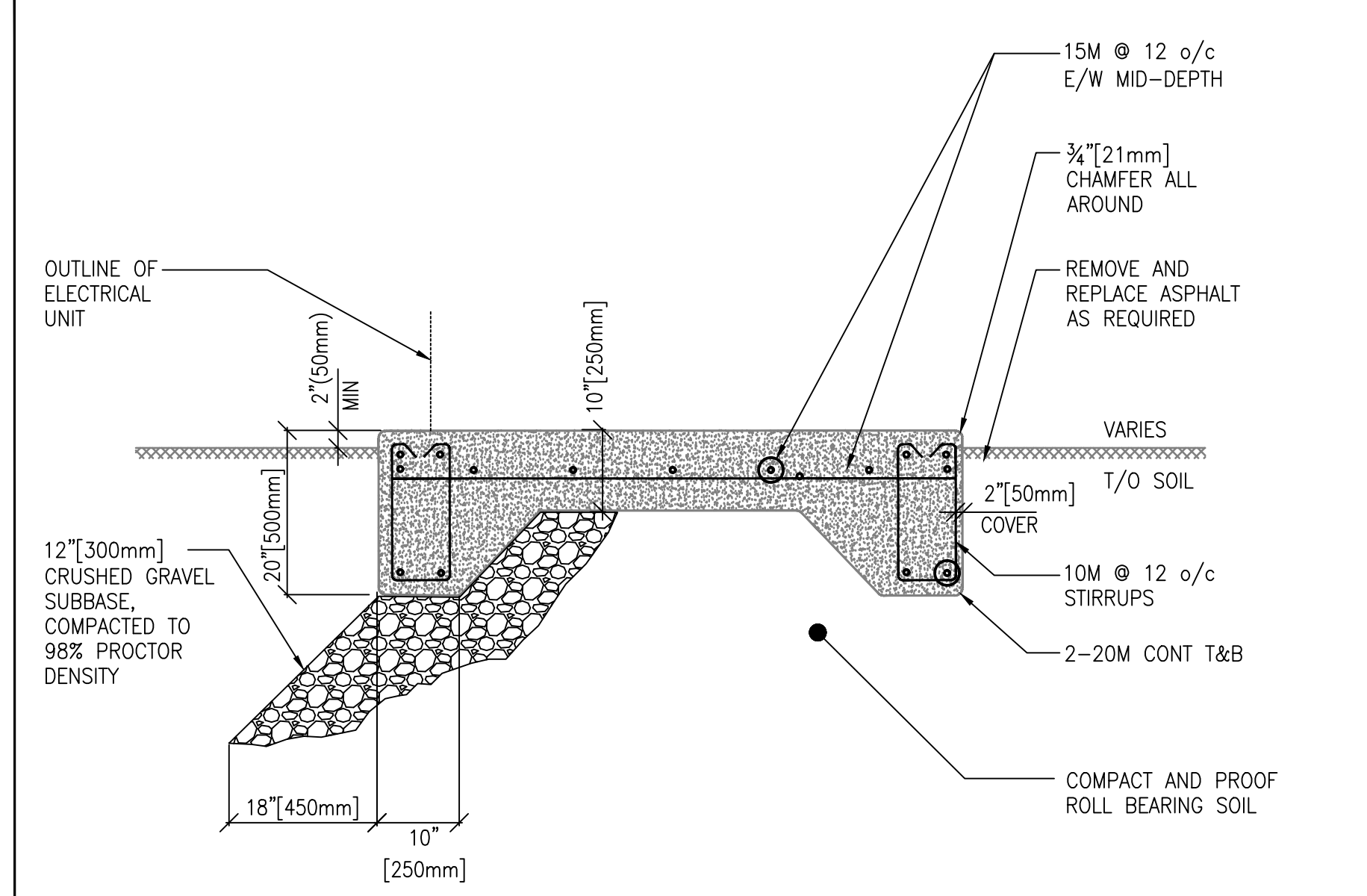
CLASS OF CONCRETE	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	NOMINAL SIZE OF AGGREGATE (mm)	AIR CONTENT (%)	MAXIMUM WATER/CEMENTING MATERIALS RATIO
EQUIPMENT PADS	F-2	30	20	5-8	0.50



1 CONCRETE SITE PLAN
 E-2 SCALE: 1/2"=1'-0"



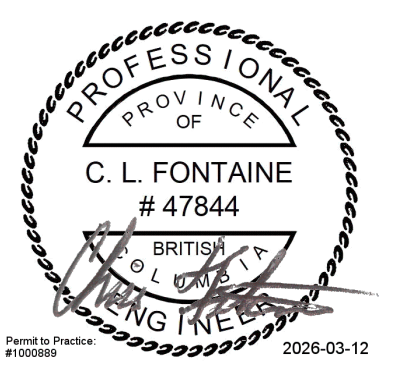
2 ELECTRICAL SERVICE
 E-2 SECONDARY TRENCH SECTION
 SCALE: NTS



3 CONCRETE PAD SECTION
 E-2 SCALE: 1/2"=1'-0"

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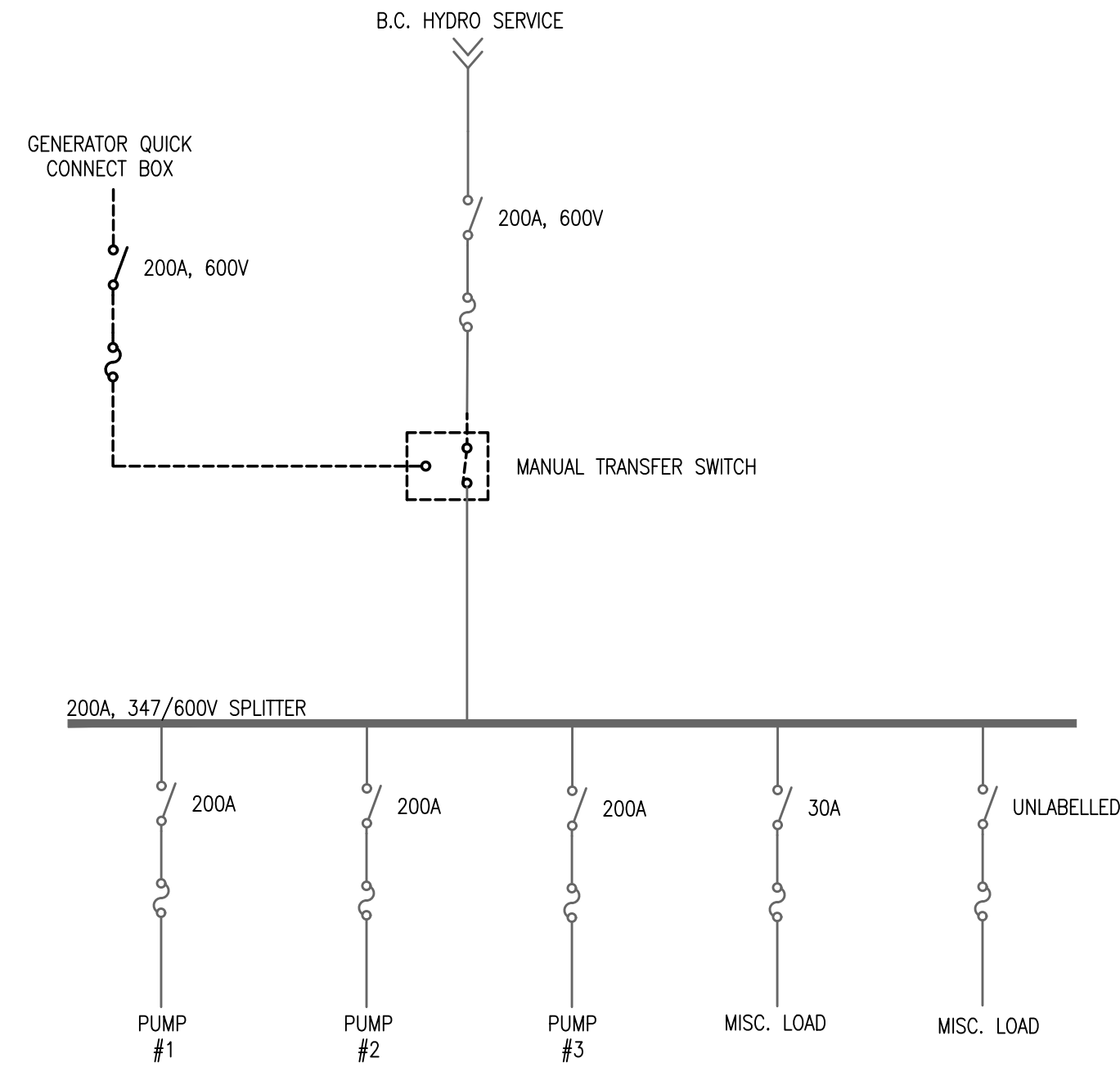
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DRAWING TITLE:
ELECTRICAL DETAILS

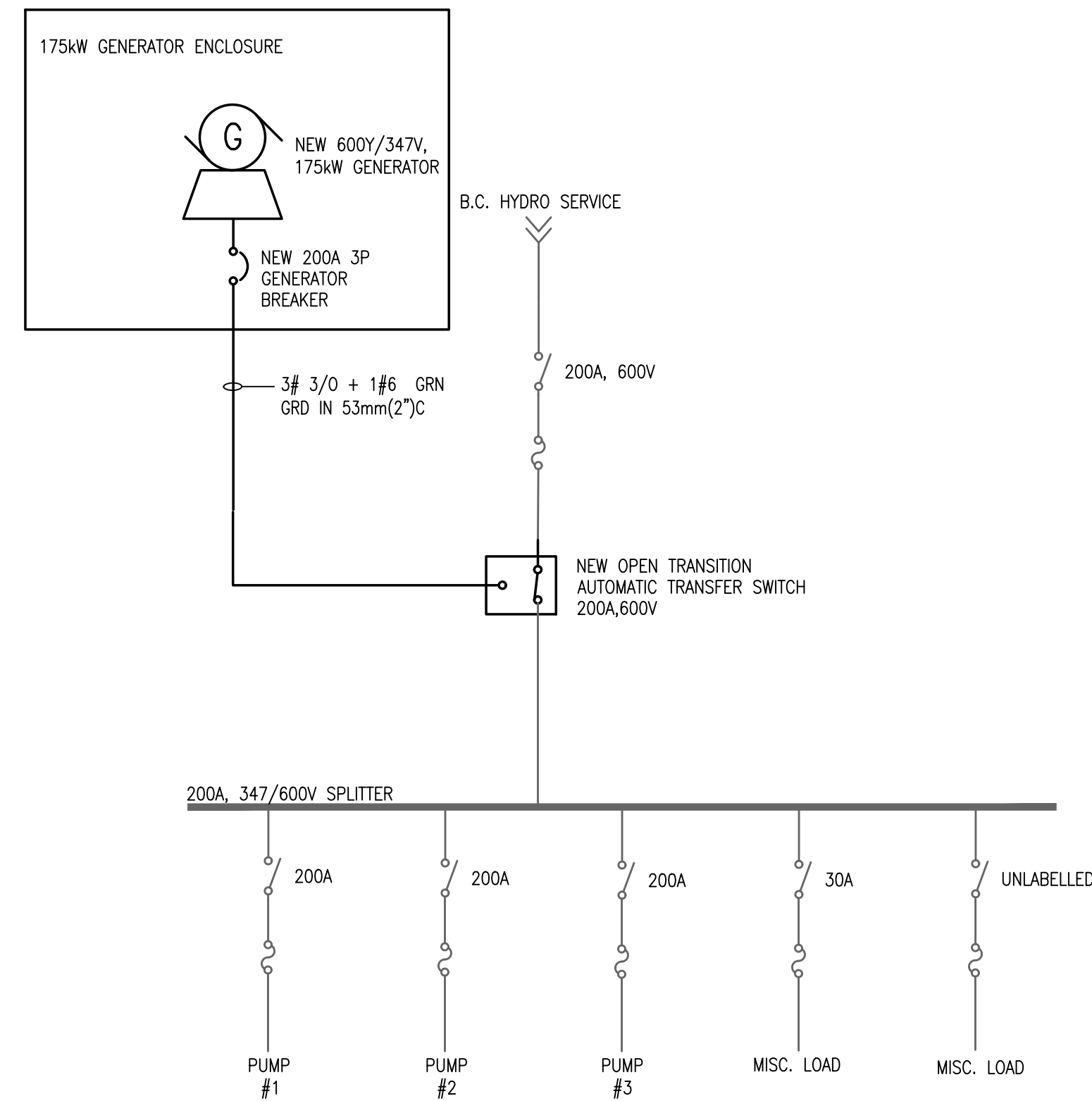
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E-2

LEGEND	
SYMBOL	DESCRIPTION
	DISCONNECT SWITCH
	CIRCUIT BREAKER
	FUSE
	TRANSFORMER
	METER
	GENERATOR



1 EXISTING PARTIAL SINGLE LINE DIAGRAM – MAIN DISTRIBUTION
E-3 SCALE: NTS

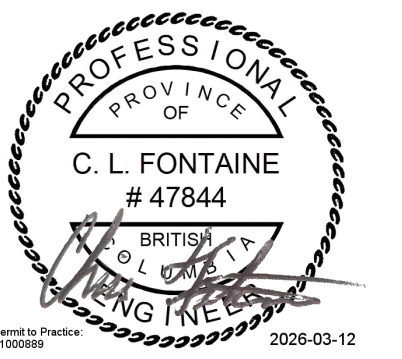


2 NEW PARTIAL SINGLE LINE DIAGRAM – EMERGENCY DISTRIBUTION
E-3 SCALE: NTS

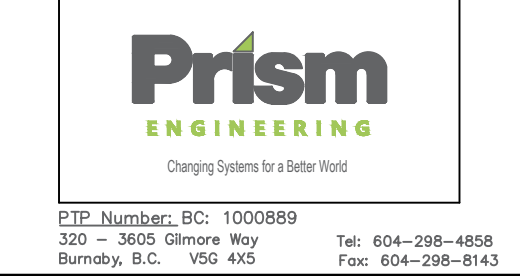
LOAD CALCULATION:	
CAPACITY BC HYDRO SERVICE: (200A, 600Y/347V, 80% RATED)	166kW
UV DISINFECTION:	25kW
DEHUMIDIFIER:	1.5kW
HEATING:	1.5kW
MISCELLANEOUS LOADS:	10kW
PUMP #1:	40kW
PUMP #2:	40kW
PUMP #3:	40kW
TOTAL EQUIPMENT LOAD:	158kW

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ELECTRICAL SINGLE LINE DIAGRAM

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