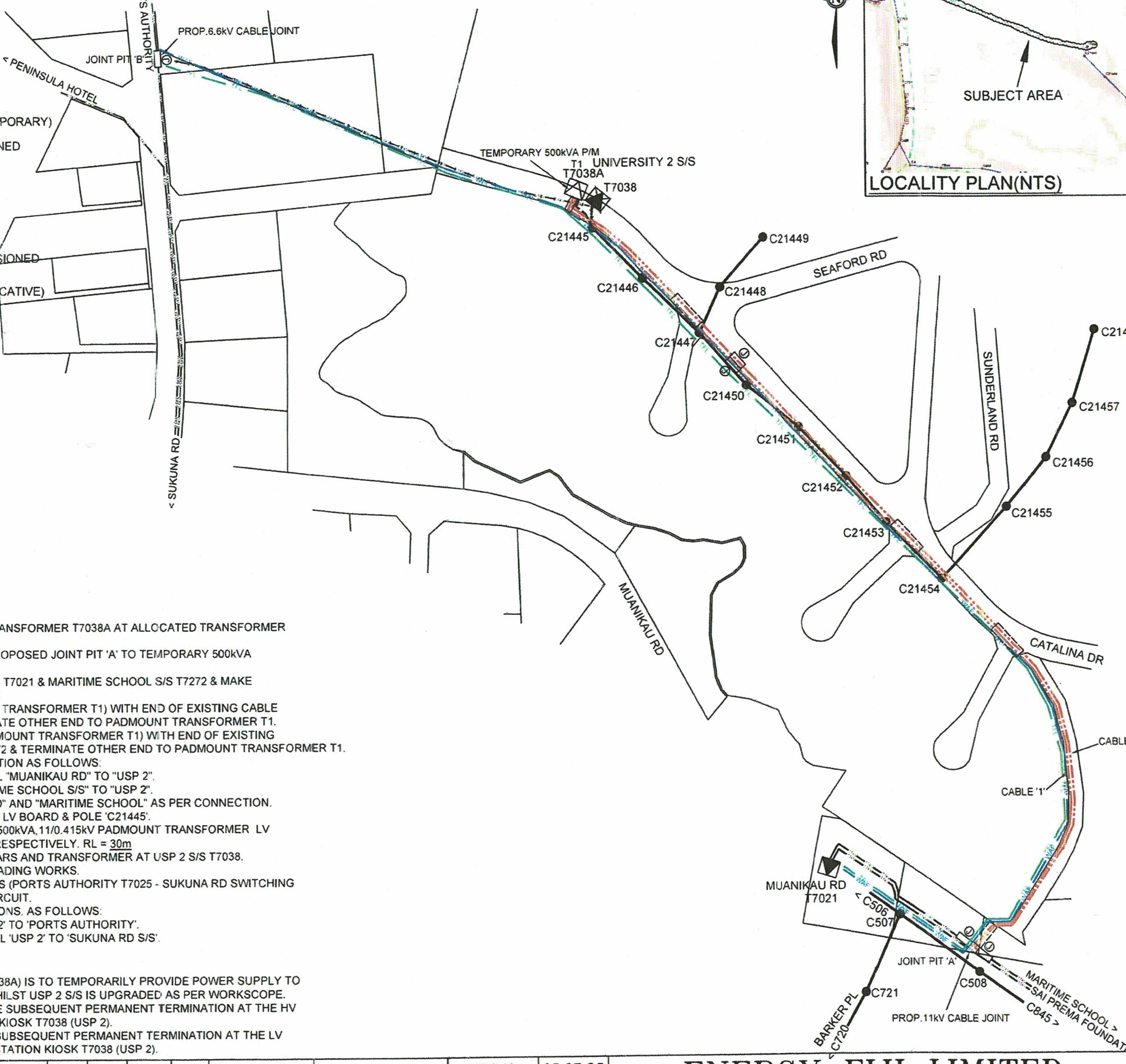
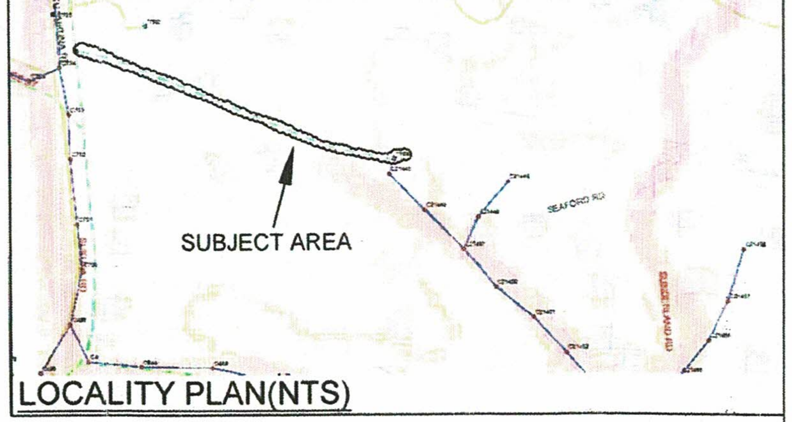
LEGEND

- ● LV POLE
- 150mm Ø PVC CONDUIT
- PROPOSED PADMOUNT TRANSFORMER (TEMPORARY)
- EXISTING SUBSTATION TO BE DECOMMISSIONED
- PROPOSED STRAIGHT THRU JOINT
- EXISTING 11kV U/G CABLE
- PROPOSED 11kV U/G CABLE
- EXISTING 6.6kV U/G CABLE
- EXISTING O/H CONDUCTOR
- EXISTING 415V U/G CABLE TO BE DECOMMISSIONED
- PROPOSED 415V U/G CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)
- EXISTING TELECOM LINE (INDICATIVE)





LOCALITY PLAN(NTS)

SCOPE OF WORK:

1. INSTALL TEMPORARY 500kVA 11/0.415kV PADMOUNT TRANSFORMER T7038A AT ALLOCATED TRANSFORMER SITE ADJACENT TO USP 2 S/S T7038.
2. DIG & LAY 2 x 240mm² 3C 11kV XLPE HV CABLE FROM PROPOSED JOINT PIT 'A' TO TEMPORARY 500kVA PADMOUNT T7038A. RL = 650m
3. CUT EXISTING 11kV CABLE BETWEEN MUANIKAU RD S/S T7021 & MARITIME SCHOOL S/S T7272 & MAKE JOINTS WITH NEW CABLE AS FOLLOWS AT JOINT PIT 'A':
   i. CABLE '1' - JOIN END FIRST CABLE (FROM PADMOUNT TRANSFORMER T1) WITH END OF EXISTING CABLE FROM MUANIKAU RD S/S T7021 & TERMINATE OTHER END TO PADMOUNT TRANSFORMER T1.
   ii. CABLE '2' - JOIN END OF SECOND CABLE (FROM PADMOUNT TRANSFORMER T1) WITH END OF EXISTING CABLE FROM MARITIME SCHOOL S/S T7272 & TERMINATE OTHER END TO PADMOUNT TRANSFORMER T1.
4. LABEL SWITCHGEARS RESPECTIVELY AS PER CONNECTION AS FOLLOWS:
   a. AT MARITIME SCHOOL S/S 'T7272': CHANGE S/M LABEL "MUANIKAU RD" TO "USP 2".
   b. AT MUANIKAU RD 'T7021: CHANGE S/M LABEL "MARITIME SCHOOL S/S" TO "USP 2".
   c. AT USP 2 P/M 'T7038A': LABEL TWO S/M "MUANIKAU RD" AND "MARITIME SCHOOL" AS PER CONNECTION.
5. DECOMMISSION & REMOVE LV CABLES FROM USP 2 S/S LV BOARD & POLE 'C21445'.
6. DIG & LAY 1 x 240mm² 4C Cu CABLE FROM TEMPORARY 500kVA,11/0.415kV PADMOUNT TRANSFORMER LV BOARD TO POLE C21445 & TERMINATE AT BOTH ENDS RESPECTIVELY. RL = 30m
7. DECOMMISSION & REMOVE EXISTING 6.6KV SWITCHGEARS AND TRANSFORMER AT USP 2 S/S T7038. CARRYOUT CIVIL WORKS INSIDE THE KIOSK FOR UPGRADING WORKS.
8. MAKE JOINT ON EXISTING 6.6kV UNDERGROUND CABLES (PORTS AUTHORITY T7025 - SUKUNA RD SWITCHING STATION) AT JOINT PIT 'B' FOR CONTINUITY OF 6.6kV CIRCUIT.
9. UPDATE 6.6kV SWITCHGEAR LABELS IN 6.6kV SUBSTATIONS, AS FOLLOWS:
   a. AT SUKUNA RD S/S. T7034 - CHANGE S/M LABEL 'USP 2' TO 'PORTS AUTHORITY'.
   b. AT PORTS AUTHORITY S/S. T7025 - CHANGE S/M LABEL 'USP 2' TO 'SUKUNA RD S/S'.

NOTES:

1. THE 500kVA,11/0.415kV PADMOUNT TRANSFORMER (T7038A) IS TO TEMPORARILY PROVIDE POWER SUPPLY TO CUSTOMERS SUPPLIED FROM USP 2 6.6kV S/S T7038 WHILST USP 2 S/S IS UPGRADED AS PER WORKSCOPE.
2. ENSURE SUFFICIENT 11kV CABLE IS LAID TO FACILITATE SUBSEQUENT PERMANENT TERMINATION AT THE HV SWITCHGEAR INSIDE THE UPGRADE 11kV SUBSTATION KIOSK T7038 (USP 2).
3. ENSURE SUFFICIENT LV CABLE IS LAID TO FACILITATE SUBSEQUENT PERMANENT TERMINATION AT THE LV DISTRIBUTION BOARD INSIDE THE UPGRADE 11kV SUBSTATION KIOSK T7038 (USP 2).

SHEET 1 OF 5

No.	REVISION	DATE	BY	CHK	DEPT ENG	HOD
0	ORIGINAL ISSUE FOR SR06.15B-3	05.07.25	PS	[signature]	RK	[signature]

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GIS COORDINATOR	[signature]	17/9/25
TEAM LEADER DESIGN & PLANNING	[signature]	10.09.25
ENGINEER	[signature]	12/09/25
HEAD OF DEPARTMENT	[signature]	17.9.25

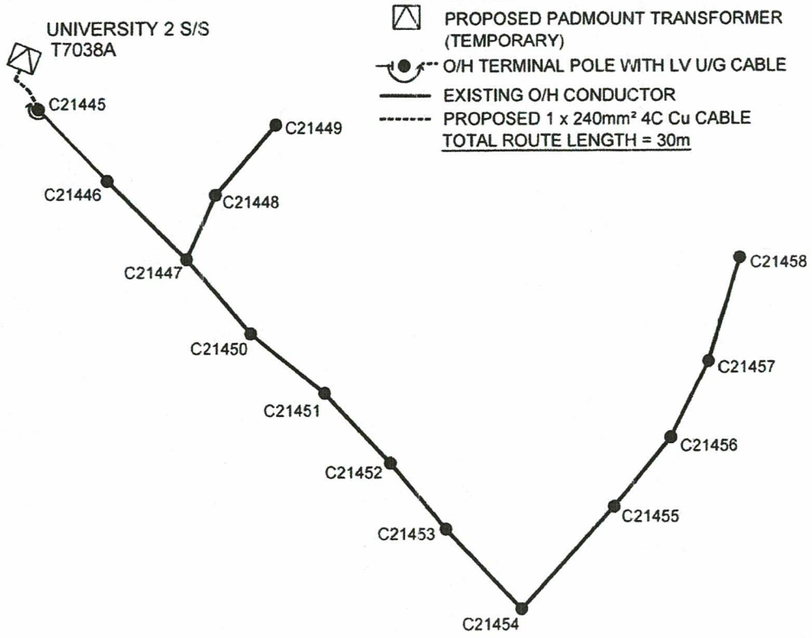
ENERGY FIJI LIMITED

UPGRADING OF 6.6kV TO 11kV GRID (TEMPORARY)
UNIVERSITY 2 S/S T7038, ON DAMODAR FEEDER
SUVA DISTRICT (SR06.15B-3) STAGE 1

DRAWING NUMBER: A3 | 09 | N48 | 484

SCALE 1 : 2000

FINAL LV CIRCUIT

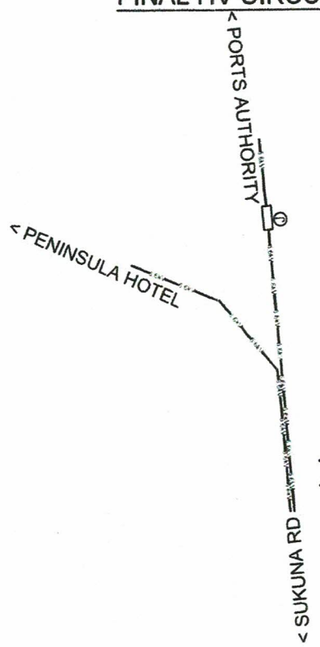


LEGEND - LV CIRCUIT

- LV POLE
- PROPOSED PADMOUNT TRANSFORMER (TEMPORARY)
- O/H TERMINAL POLE WITH LV U/G CABLE
- EXISTING O/H CONDUCTOR
- PROPOSED 1 x 240mm² 4C Cu CABLE

TOTAL ROUTE LENGTH = 30m

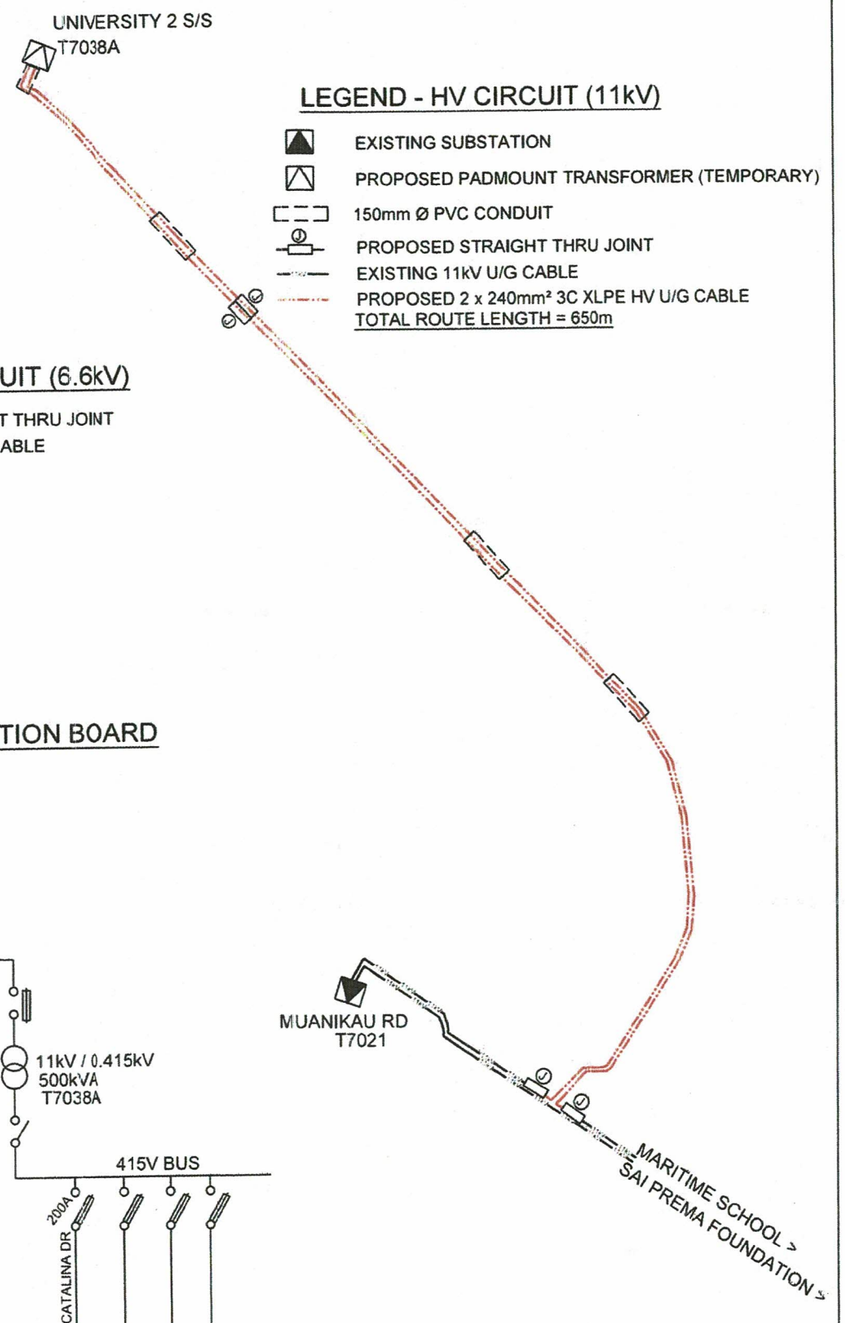
FINAL HV CIRCUIT (6.6kV)



LEGEND - HV CIRCUIT (6.6kV)

- PROPOSED STRAIGHT THRU JOINT
- EXISTING 6.6kV U/G CABLE

FINAL HV CIRCUIT (11kV)



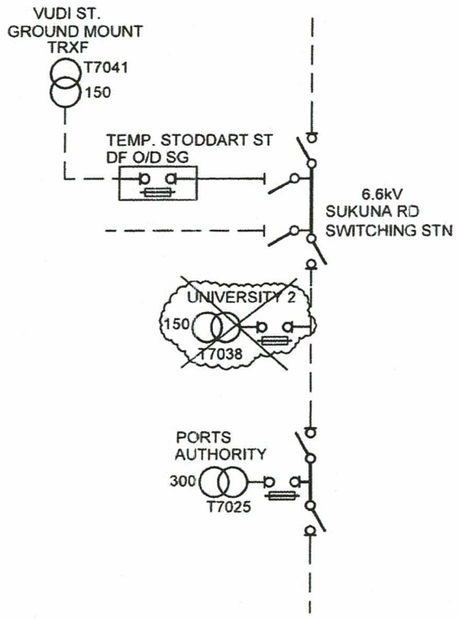
LEGEND - HV CIRCUIT (11kV)

- EXISTING SUBSTATION
- PROPOSED PADMOUNT TRANSFORMER (TEMPORARY)
- 150mm Ø PVC CONDUIT
- PROPOSED STRAIGHT THRU JOINT
- EXISTING 11kV U/G CABLE
- PROPOSED 2 x 240mm² 3C XLPE HV U/G CABLE

TOTAL ROUTE LENGTH = 650m

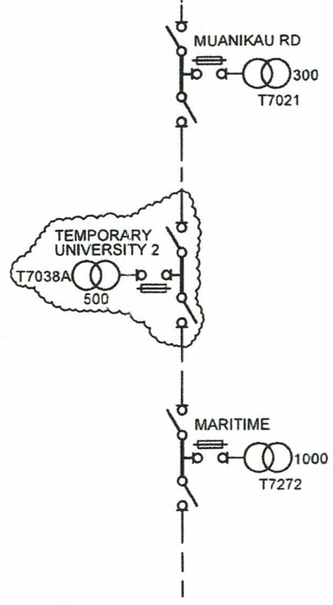
FINAL SINGLE LINE DIAGRAM (6.6kV)

REF SLD NO. 05 N10 001



FINAL SINGLE LINE DIAGRAM (11kV)

REF. DRWG 04 N10 021



LV DISTRIBUTION BOARD

0	ORIGINAL ISSUE FOR SR06.15B-3	05.07.25	PS	KP	RK		
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ENERGY FIJI LIMITED

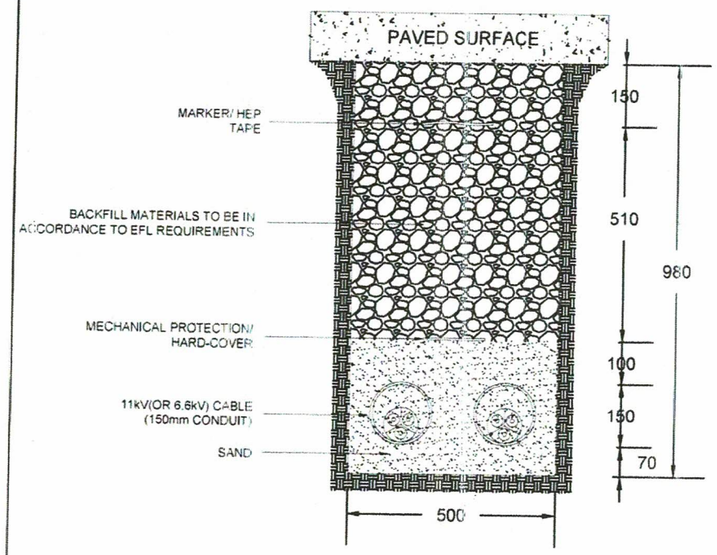
UPGRADING OF 6.6kV TO 11kV GRID (TEMPORARY)
UNIVERSITY 2 S/S T7038, ON DAMODAR FEEDER
. SUVA DISTRICT (SR06.15B-3) STAGE 1

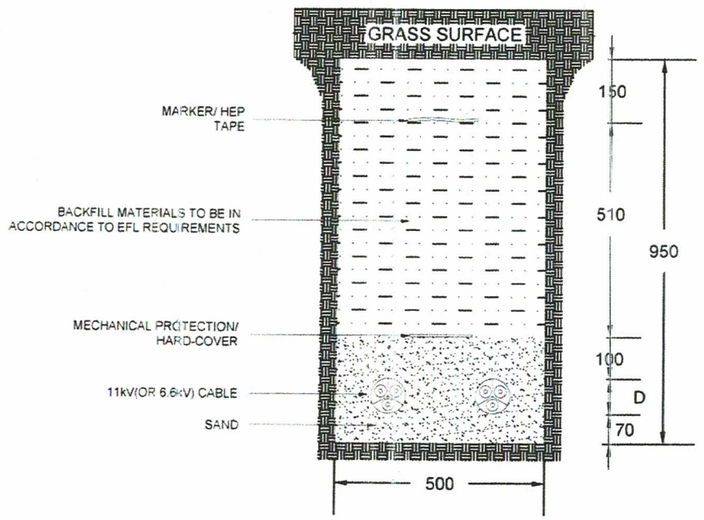
DRAWING NUMBER: A3 | 09 | N48 | 484

SCALE 1 : 250

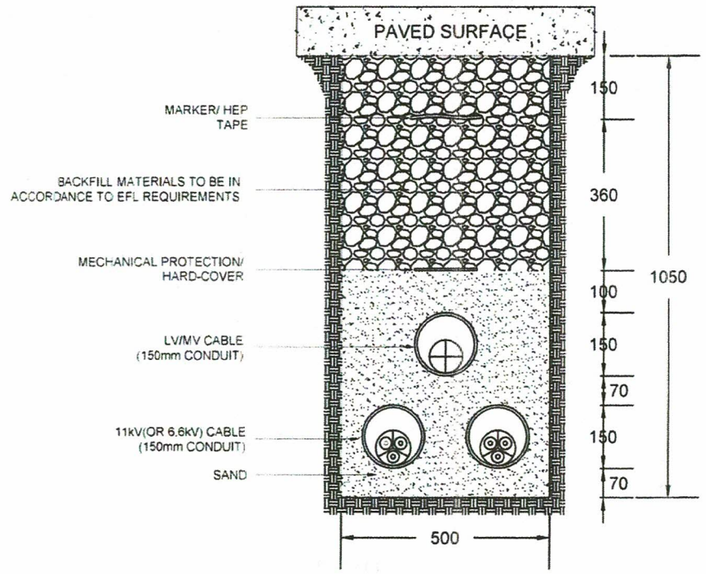
A3	09	N48	484

11kV TRENCH

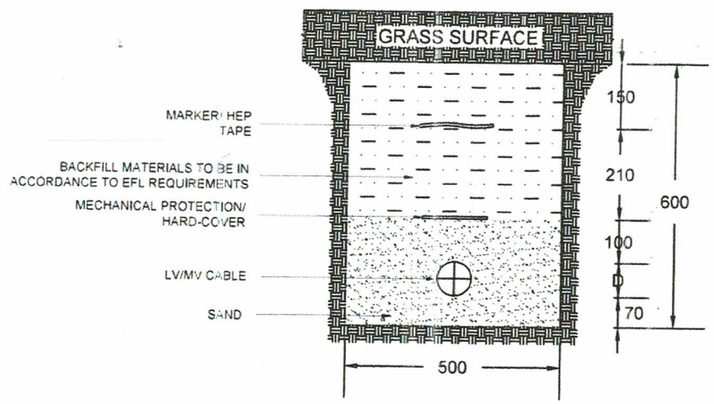


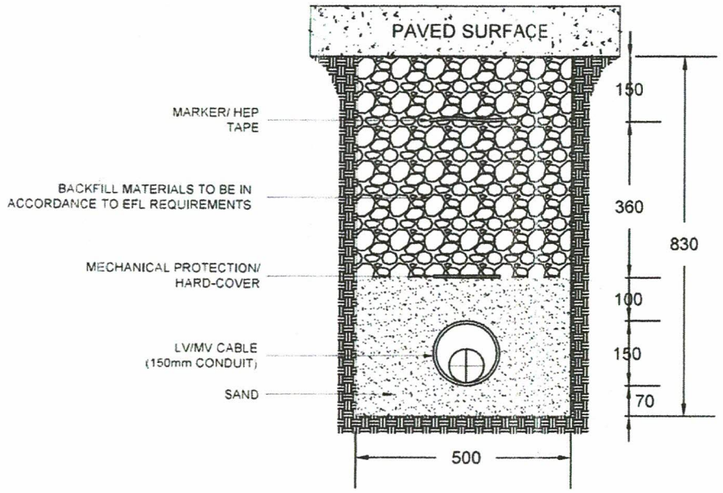


11kV + LV/MV TRENCH



LV/MV TRENCH





No.	REVISION	DATE	BY	CHK	DEPT ENG	HOD
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ENGINEER		12/09/25
HEAD OF DEPARTMENT		17.9.25

ENERGY FIJI LIMITED

UPGRADING OF 6.6kV TO 11kV GRID (PERMANENT)
UNIVERSITY 2 S/S T7038, ON DAMODAR FEEDER
SUVA DISTRICT (SR06.15B-3) STAGE 1

SHEET 3 OF 5

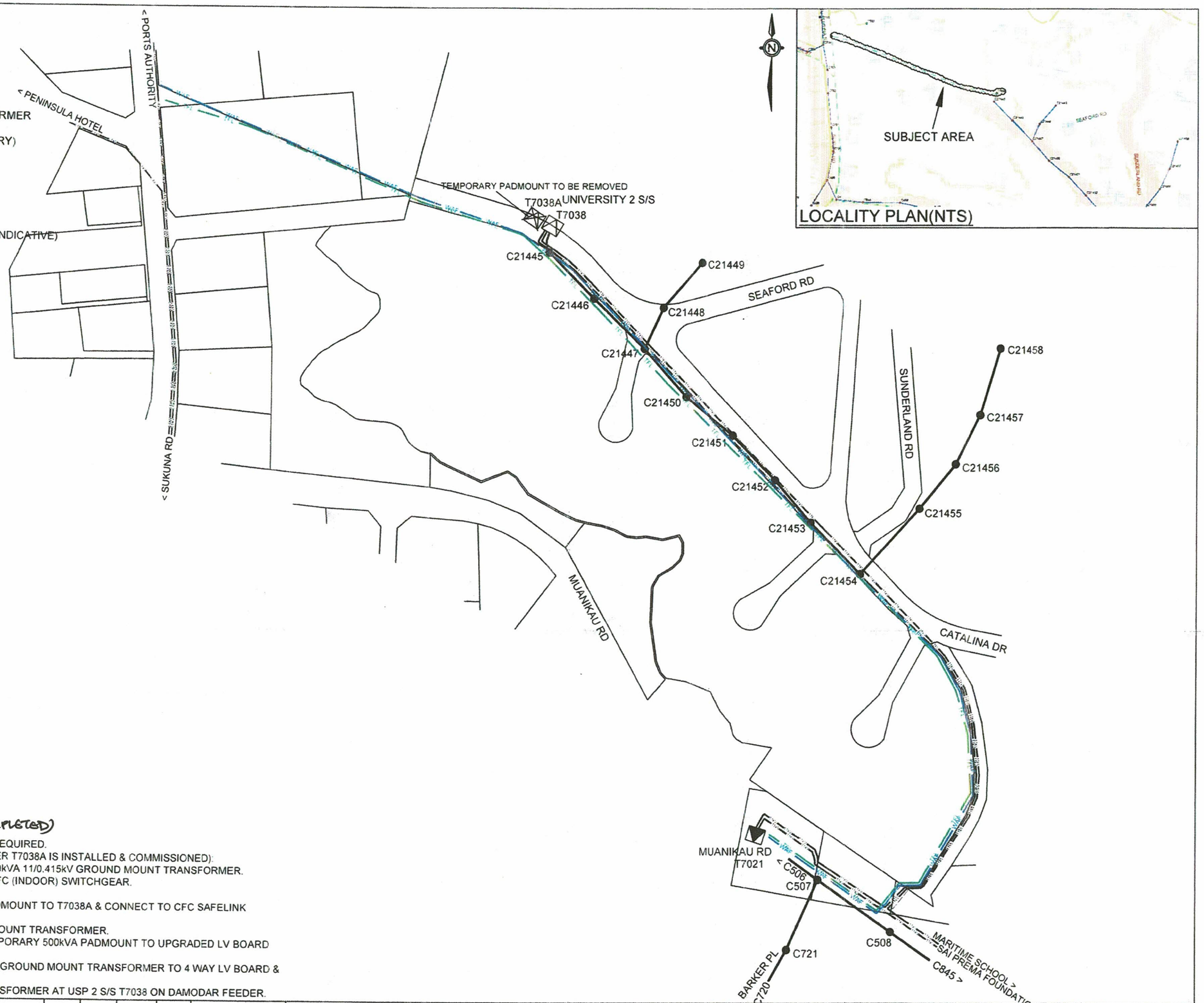
DRAWING NUMBER: A3 | 09 | N48 | 484

SCALE 1 : 250

A3	09	N48	484

LEGEND

- LV POLE
- EXISTING GROUND MOUNT KIOSK
- PROPOSED GROUND MOUNT TRANSFORMER
- PADMOUNT TRANSFORMER (TEMPORARY) TO BE DECOMMISSIONED & REMOVED
- EXISTING 11kV U/G CABLE
- EXISTING 6.6kV U/G CABLE
- EXISTING O/H CONDUCTOR
- PROPOSED 415V U/G CABLE
- EXISTING WATER AUTHORITY PIPE LINE (INDICATIVE)
- EXISTING TELECOM LINE (INDICATIVE)



SCOPE OF WORK (AFTER STAGE 1 WORK COMPLETED)

1. CARRY OUT CIVIL WORKS INSIDE USP 2 S/S T7038 AS REQUIRED.
2. UPGRADE USP 2 S/S T7038 TO 11kV AS FOLLOWS (AFTER T7038A IS INSTALLED & COMMISSIONED):
   a. REPLACE EXISTING 150kVA TRANSFORMER WITH 300kVA 11/0.415kV GROUND MOUNT TRANSFORMER.
   b. REPLACE EXISTING SWITCHGEAR WITH SAFELINK CFC (INDOOR) SWITCHGEAR.
   c. UPGRADE LV DISTRIBUTION BOARD TO 4 WAY.
3. DIVERT 2 x 11kV CABLE FROM 500kVA TEMPORARY PADMOUNT TO T7038A & CONNECT TO CFC SAFELINK SWITCHGEAR.
4. DECOMMISSION & REMOVE TEMPORARY 500kVA PADMOUNT TRANSFORMER.
5. REMOVE & DIVERT 1 x 240mm² 4C Cu CABLE FROM TEMPORARY 500kVA PADMOUNT TO UPGRADED LV BOARD AT USP 2 S/S T7038.
6. LAY 4 x 240mm² 1C Cu CABLE FROM UPGRADED 300kVA GROUND MOUNT TRANSFORMER TO 4 WAY LV BOARD & CONNECT. RL = 8m
7. COMMISSION 300kVA GROUND MOUNT 11/0.415kV TRANSFORMER AT USP 2 S/S T7038 ON DAMODAR FEEDER.

No.	REVISION	DATE	BY	CHK	DEPT ENG	HOD
0	ORIGINAL ISSUE FOR SR06.15B-3	05.07.25	PS	RSP	RK	

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GIS COORDINATOR		
TEAM LEADER DESIGN & PLANNING		10.09.25
ENGINEER	Ravitesh	12/09/25
HEAD OF DEPARTMENT		17-9-25

ENERGY FIJI LIMITED

SHEET 4 OF 5

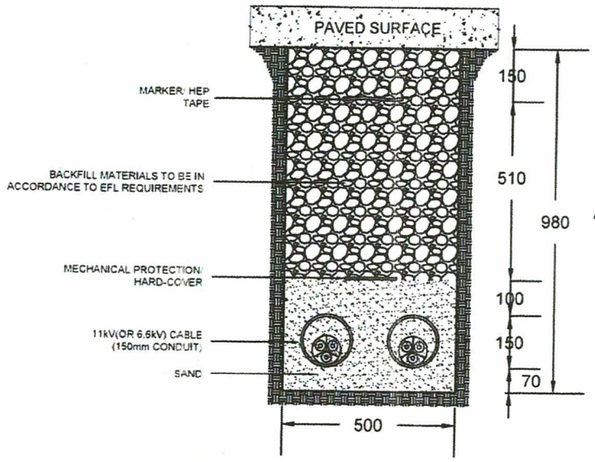
UPGRADING OF 6.6kV TO 11kV GRID (PERMANENT)
UNIVERSITY 2 S/S T7038, ON DAMODAR FEEDER
SUVA DISTRICT (SR06.15B-3) STAGE 2

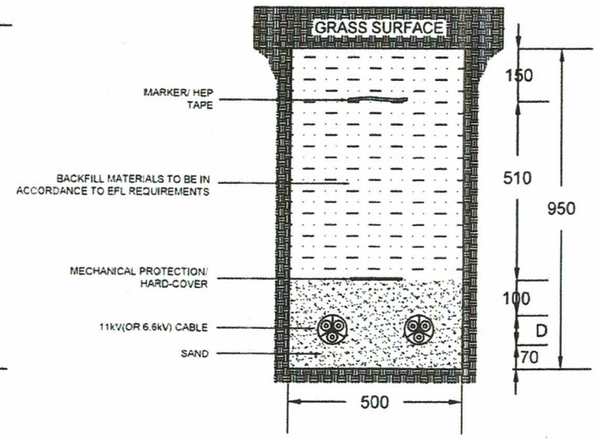
DRAWING NUMBER: A3 | 09 | N48 | 484

SCALE 1 : 2000

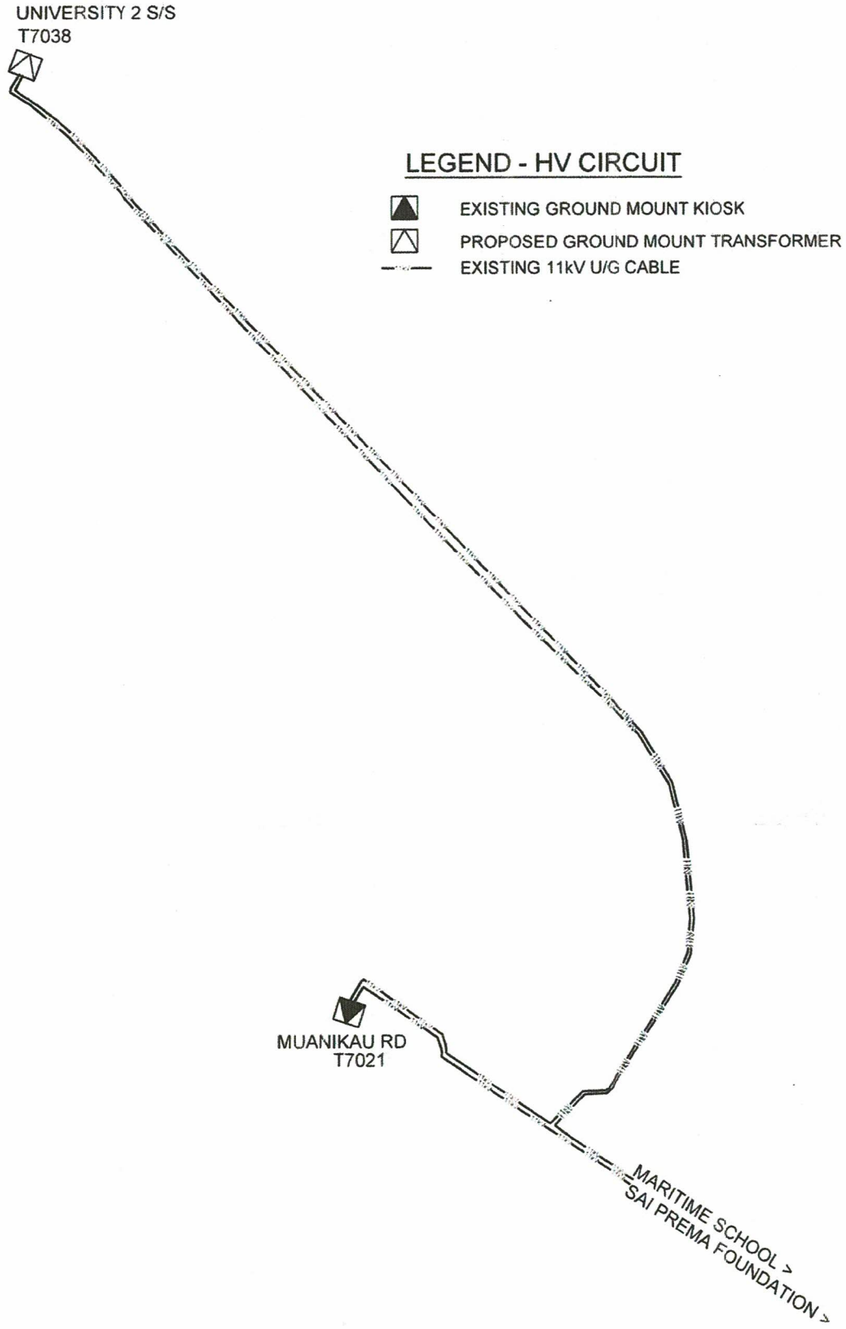
A3	09	N48	484

11kV TRENCH





FINAL HV CIRCUIT

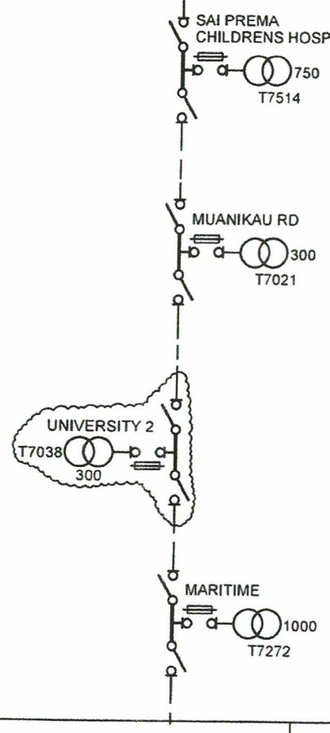


LEGEND - HV CIRCUIT

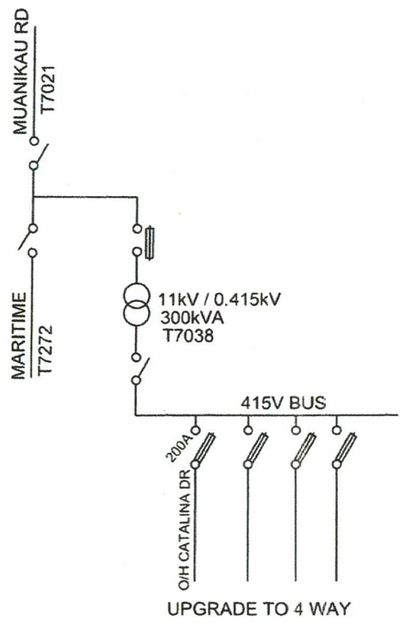
- EXISTING GROUND MOUNT KIOSK
- PROPOSED GROUND MOUNT TRANSFORMER
- EXISTING 11kV U/G CABLE

FINAL SINGLE LINE DIAGRAM (11kV)

REF. DRWG 04 N10 021



LV DISTRIBUTION BOARD



No.	REVISION	DATE	BY	CHK	DEPT ENG	HOD
0	ORIGINAL ISSUE FOR SR06.15B-3	05.07.25	PS	RNP	RK	

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GIS COORDINATOR		17/9/25
TEAM LEADER DESIGN & PLANNING		10.09.25
ENGINEER	Rakesh	12/09/25
HEAD OF DEPARTMENT		17-9-25

ENERGY FIJI LIMITED

UPGRADING OF 6.6kV TO 11kV GRID (PERMANENT)
UNIVERSITY 2 S/S T7038, ON DAMODAR FEEDER
SUVA DISTRICT (SR06.15B-3) STAGE 2

SHEET 5 OF 5

DRAWING NUMBER: A3 | 09 | N48 | 484

SCALE 1 : 250