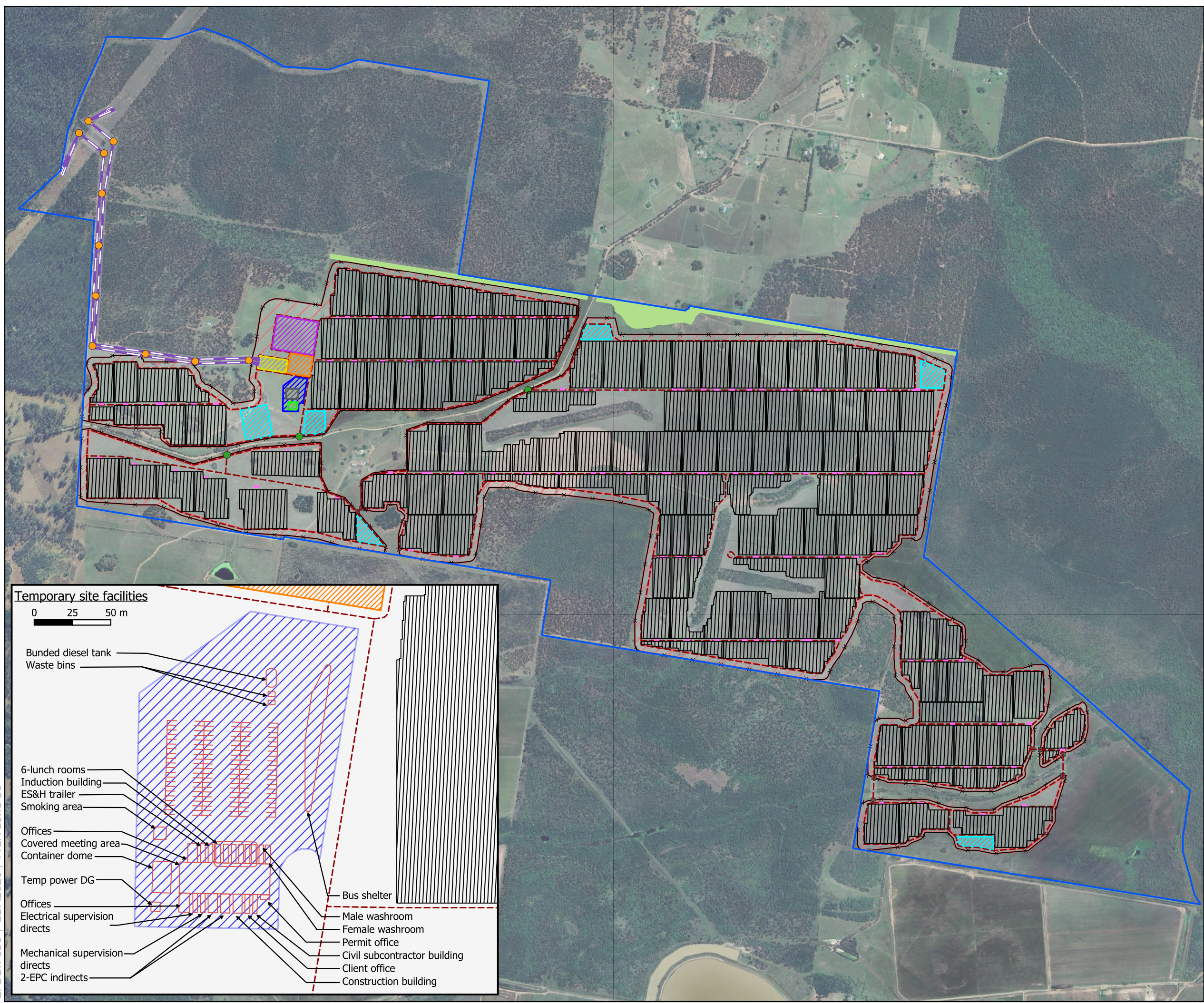


## APPENDIX 2

### Detailed Maps and Plans



**LEGEND**

- Project Area
- Site access points
- Security fence
- Solar array block
- Inverters
- Access gates
- Assest Protection Zone
- Access tracks
- Biodiversity corridor
- Substation
- Switching substation
- Battery Energy Storage System
- Powerpoles
- Transmission lines
- O&M facility
- Parking lot
- Temporary site facilities footprint
- Temporary laydown areas
- Development Footprint

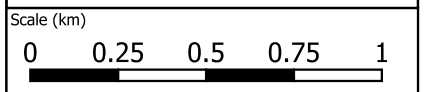
**PV SYSTEM SPECIFICATIONS**

Module	CS 690W
Avg Module Wp	690
Inverter	SMA MVPS SC 4200
Nbr Inverters	118
MWp DC	500
MWp AC	450
Tracker	Nexttracker, Single Axis Tracker
Row Length (M)	119.5    80.4    41.1
Strings per Row	87    58    29
Nbr of Rows	7643    1075    1285
Row Pitch (M)	5.4
GCR	0.441
Modules per String	29

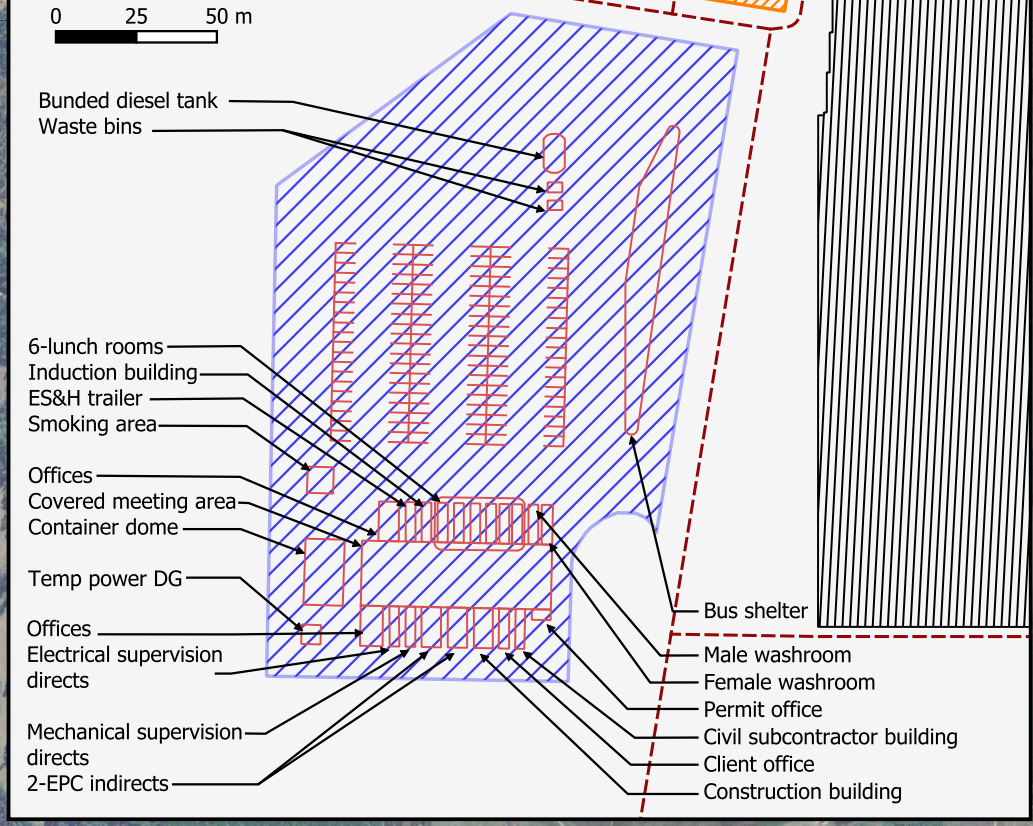
Status	Preliminary	Paper Size	A3
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Drawn	Approved	Date
ST	ST	08/05/2024

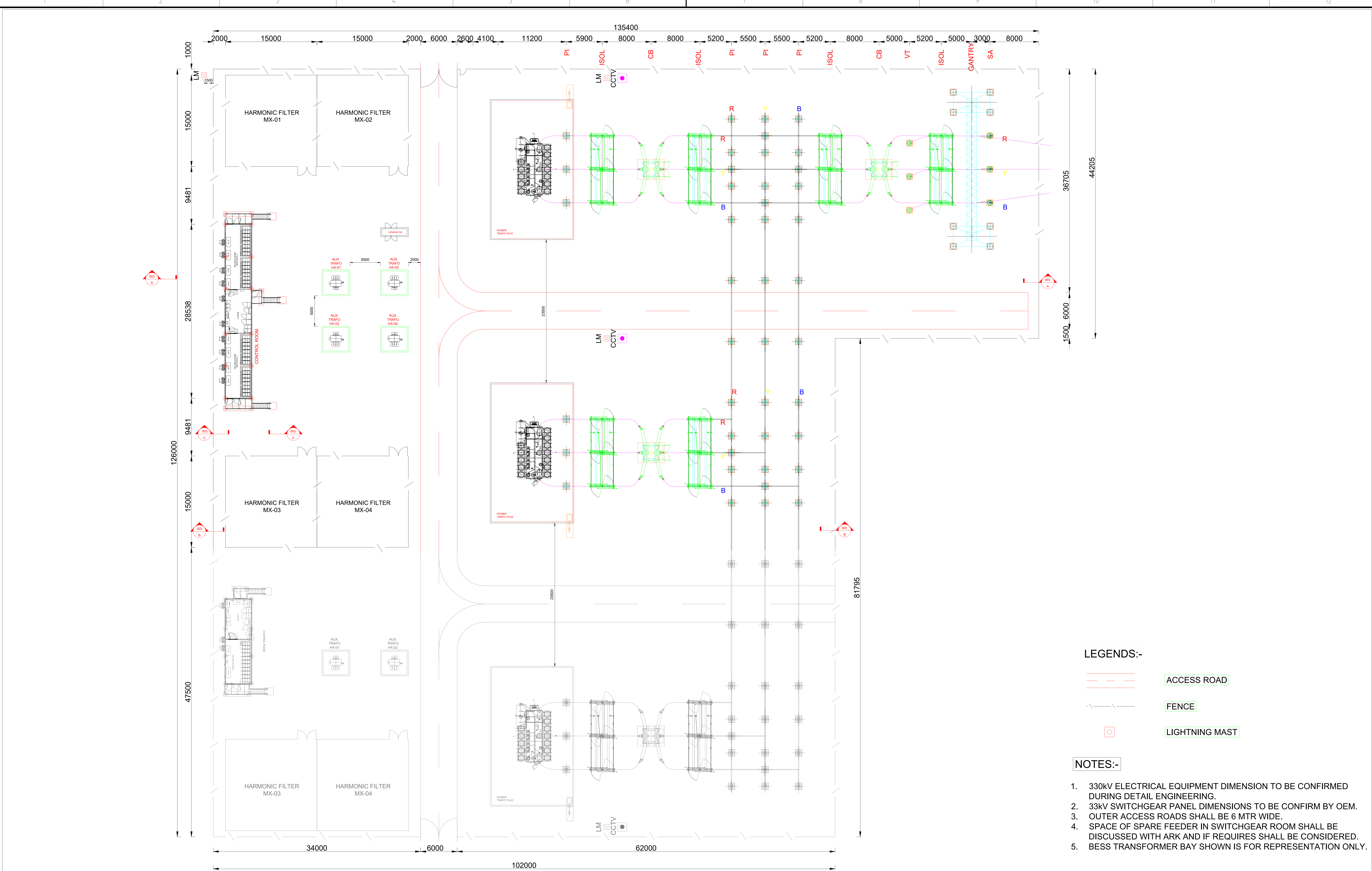
Project Name  
**Richmond Valley Solar and BESS**




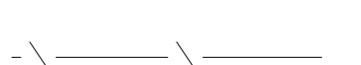

**Temporary site facilities**



EPSG:7856 | GDA2020 / MGA zone 56



**LEGENDS:-**

-  ACCESS ROAD
-  FENCE
-  LIGHTNING MAST


**NOTES:-**

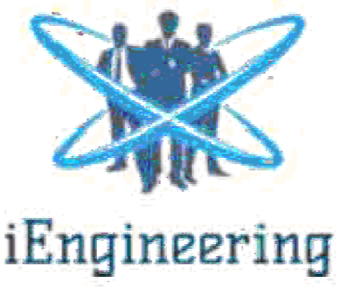
1. 33kV ELECTRICAL EQUIPMENT DIMENSION TO BE CONFIRMED DURING DETAIL ENGINEERING.
2. 33kV SWITCHGEAR PANEL DIMENSIONS TO BE CONFIRM BY OEM.
3. OUTER ACCESS ROADS SHALL BE 6 MTR WIDE.
4. SPACE OF SPARE FEEDER IN SWITCHGEAR ROOM SHALL BE DISCUSSED WITH ARK AND IF REQUIRES SHALL BE CONSIDERED.
5. BESS TRANSFORMER BAY SHOWN IS FOR REPRESENTATION ONLY.

This drawing is the exclusive property of iEngineering and must not be copied or reproduced in any way whatsoever without the express consent in writing of iEngineering. The drawing is to be used only for the purpose for which it is supplied. The contents of the drawing must moreover be treated as strictly confidential & must not be disclosed to any third party without the express consent in writing of iEngineering.

AMDT	DESCRIPTION	DESIGN/CHKD	DRAWN/CHKD	APPD	DATE	
A1	FIRST ISSUE FOR REVIEW	BK	AD	RK	PD	25/01/2024
	AMENDMENT DETAILS					

REFERENCE DRAWINGS:  
RCM-IENG-ARK-PS-PLD-001-01 PRIMARY SINGLE LINE DIAGRAM

CLIENT:  


DESIGN:  


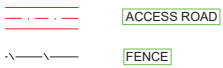
DESIGNED	BK
CHECKED	AD
DRAWN	RK
CHECKED	PD
APPROVED	

**iENGINEERING**

**RICHMOND SOLAR FARM SUBSTATION  
GENERAL ARRANGEMENT  
LAYOUT**

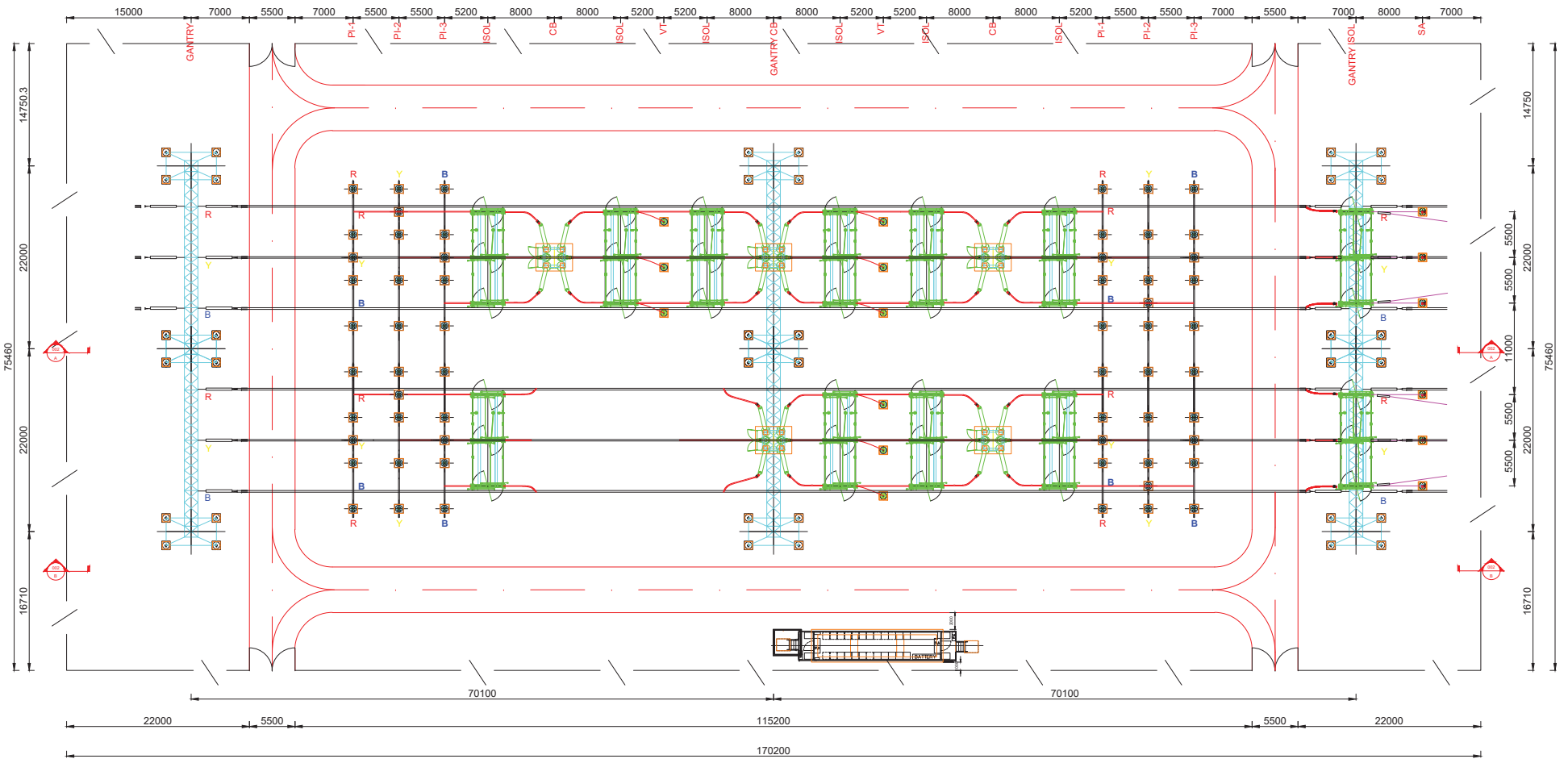
SCALE @ A1 <b>A1</b> 1:280	EPC CONTRACTOR <b>ARK</b>	IENG DRAWING No. RCM-IENG-ARK-PS-PLN-001	SHEET <b>01</b>	AMDT <b>A1</b>
----------------------------------	------------------------------	---	--------------------	-------------------

LEGENDS:-



NOTES:-

- 330KV ELECTRICAL EQUIPMENT DIMENSION TO BE CONFIRMED DURING DETAIL ENGINEERING.
- 33KV SWITCHGEAR PANEL DIMENSIONS TO BE CONFIRM BY OEM.
- OUTER ACCESS ROADS SHALL BE 6 MTR WIDE.
- SPACE OF SPARE FEEDER IN SWITCHGEAR ROOM SHALL BE DISCUSSED WITH ARK AND IF REQUIRES SHALL BE CONSIDERED.
- BESS TRANSFORMER BAY SHOWN IS FOR REPRESENTATION ONLY.



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A1	FIRST ISSUE FOR REVIEW	BK	AD	RK	PD	25/01/2024
AMD1	AMENDMENT DETAILS	DESIGN	CHKD	DRAWN	CHKD	APPD

REFERENCE DRAWINGS:

RCM-IENG-ARK-PS-SLD-001-01	PRIMARY SINGLE LINE DIAGRAM
----------------------------	-----------------------------

CLIENT:

DESIGN:

DESIGNED	BK
CHECKED	AD
DRAWN	RK
CHECKED	PD
APPROVED	
A1	SCALE @ A1
	1:250

**ENGINEERING**

**RICHMOND SWITCHING SUBSTATION**  
GENERAL ARRANGEMENT  
LAYOUT

EPC CONTRACTOR  
ARK

IENG DRAWING No.  
RCM-IENG-ARK-PS-PLN-002

SHEET  
01

CONFORM SCALE 1:100mm ON A1 ORIGINAL



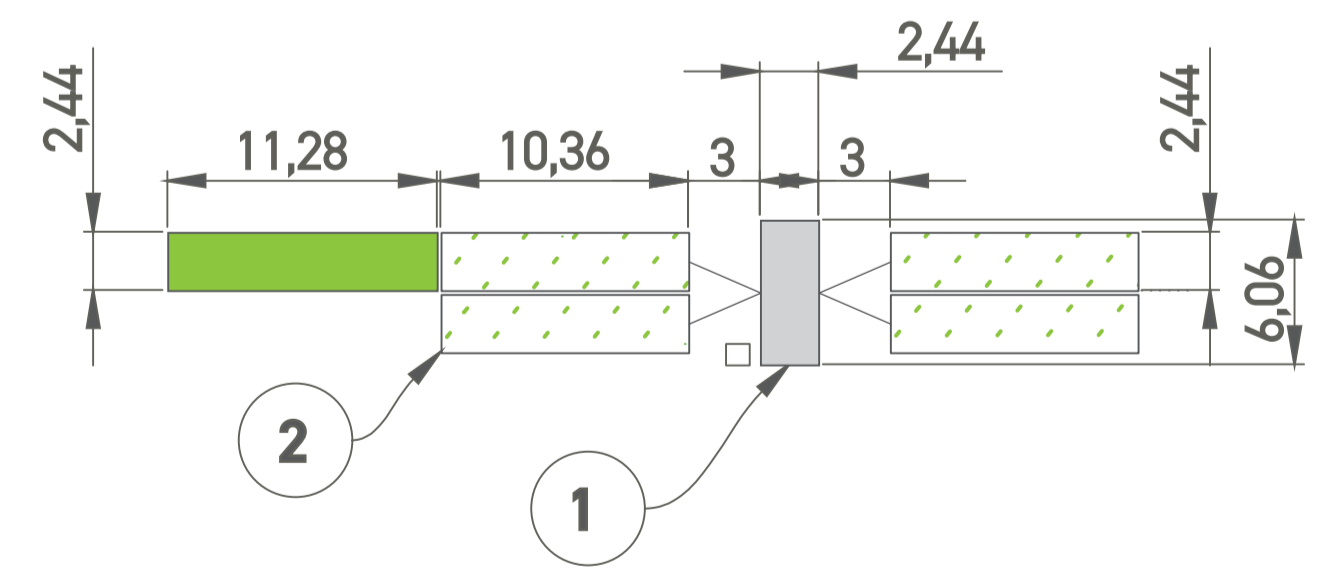
Gate 1 BESS AREA = 50175 SQ.M., 12.4 ACRES Gate 2

**Site Details**

- Access Road
- Gates

**Equipment Details**

- DC BESS Container
- Augmentation DC BESS Container
- Inverter



**NOTE:**  
 1) ALL DIMENSIONS ARE IN METERS.  
 2) ALL ACCESS ROADS ARE 6 METERS WIDE.

PRELIMINARY

ITEM NO.	QUANTITY	DESCRIPTION	SIZE (W x D x H)	WEIGHT
1	106	Inverter	6058 mm x 2438 mm x 2896 mm	< 18t
2	424	DC Battery Container	10363 mm x 2438 mm x 2926 mm	52,000 Kgs



ENGINEER DG	CHECKED BY	DRAWING TITLE	PROJECT SITE	1	10/05/2024	INDICATIVE BESS SITE LAYOUT
DRAWN BY GB	Date 10/05/2024	Indicative BESS Site Layout	RICHMOND VALLEY			
PROJECT SIZE 275MW /2200MWh	DRAWING NO					
PROJECT COD	SHEET NO 1 OF 1					