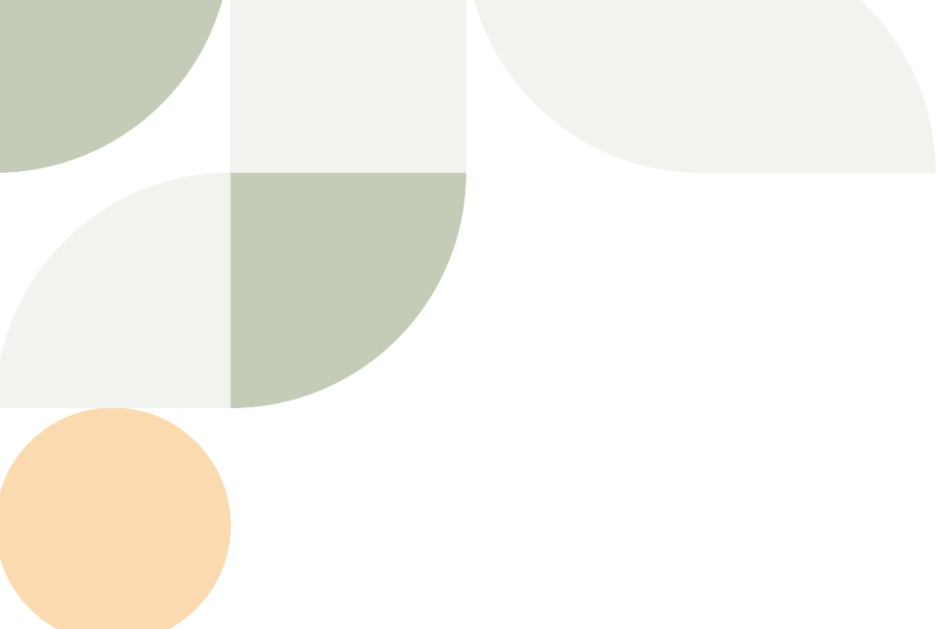




Lime Down

Solar Park

Environmental Statement

Volume 3, Appendix 3-3: Illustrative Drawings (Clean)

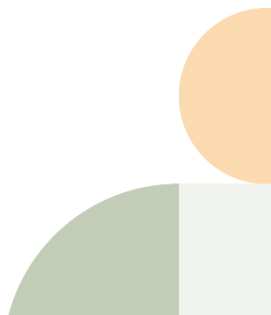
August 2026

Revision 3

Planning Inspectorate Reference: EN010168

Document Reference: APP/6.3

APFP Regulation 5(2)(a)



Schedule of Changes

Revision	Section Reference	Description of Changes	Reason for Revision
2	Throughout	Updated to provide higher resolution images with clear dimensions, and show proposed fencing for the 400 kV Substation.	Updated in response to an action from Issue Specific Hearing 1.
3	1.6	Updated access road specification drawings for the access roads to the 400 kV Substation and BESS Area, and 132 kV Substations.	Reflecting information used for updated trip generation calculations and details presented in 9.64 Highways Technical Note in response to Appendix A of the SLD Deadline 4 submission [EN010168/EXAM/9.64] submitted at Deadline 5.

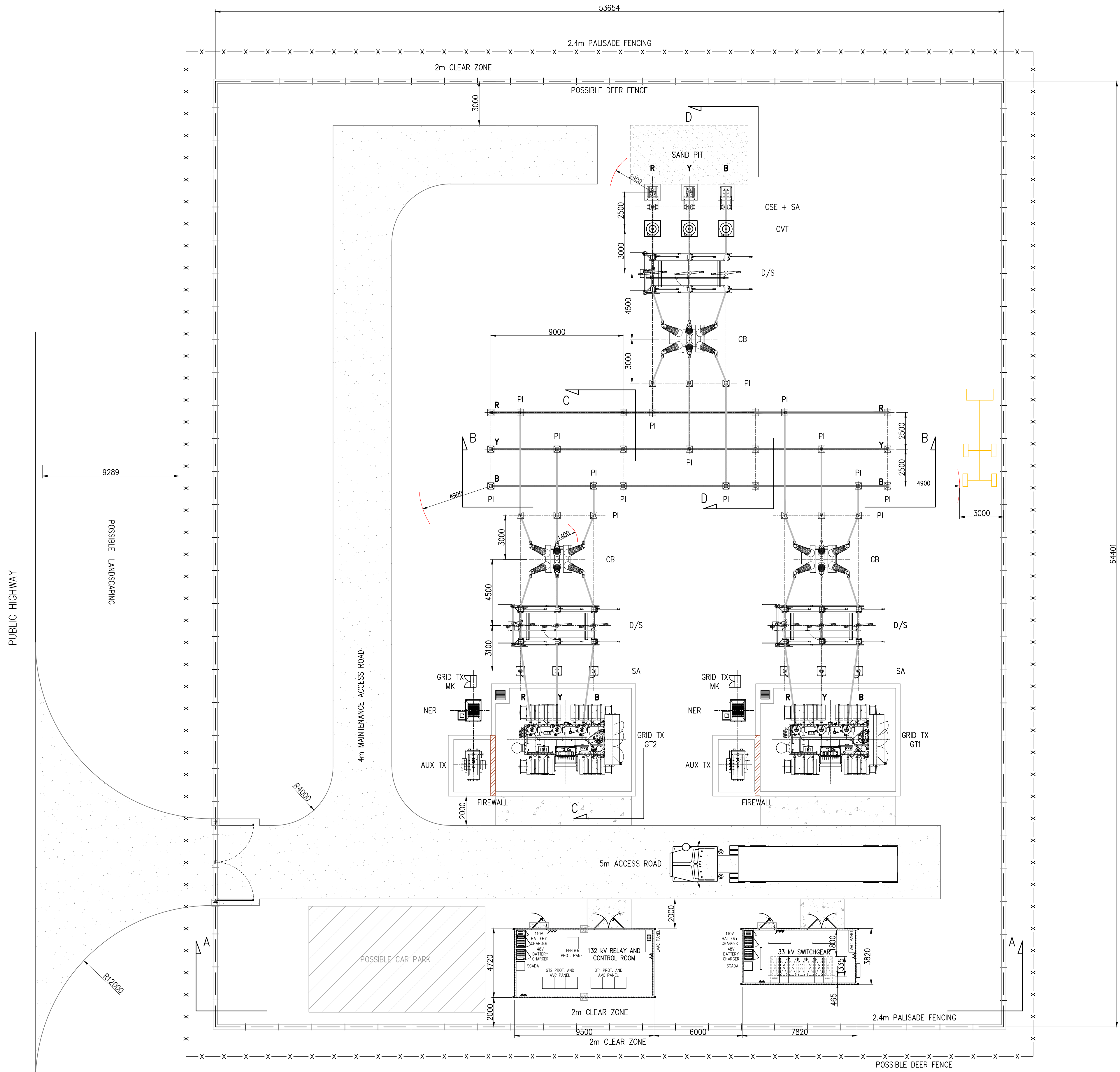
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Appendix 3-3: Illustrative Drawings

1.1 Illustrative Substation Compound Layouts

132 kV Substation



132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.4
PHASE TO EARTH CLEARANCE	1.1
DESIGN CLEARANCE FOR SAFETY (VERTICAL) D _{st}	3.8
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) D _{sh}	2.9
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	1.4
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) D _{st}	5.8
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) D _{sh}	4.9

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
MK	MARSHALLING KIOSK
NER	NEUTRAL EARTHING RESISTOR
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH ELEVATIONS DRAWING OP-PR0918-LAY006.

THE PROPOSED SUBSTATION LAYOUT IS BASED ON ASSUMPTION THAT THERE IS NO SITE RESTRICTIONS.

THE PROPOSED BUSBAR SIZE IS 90mm x 6mm Al CONDUCTOR (2000A RATING). THE BUSBAR SIZED SHALL BE CONFIRMED DURING DETAILED DESIGN.

PI	19.05.25	PRELIMINARY	DCP	EC	PD
REV	DATE	DESCRIPTION	DRN	DES	REV& APP

Do not scale from this drawing. All dimensions given in millimeters unless otherwise stated. Copyright owned by 'Omnia Projects'. This drawing may not be used or copied without written consent.

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LIMEDOWN SOLAR FARM LIMITED

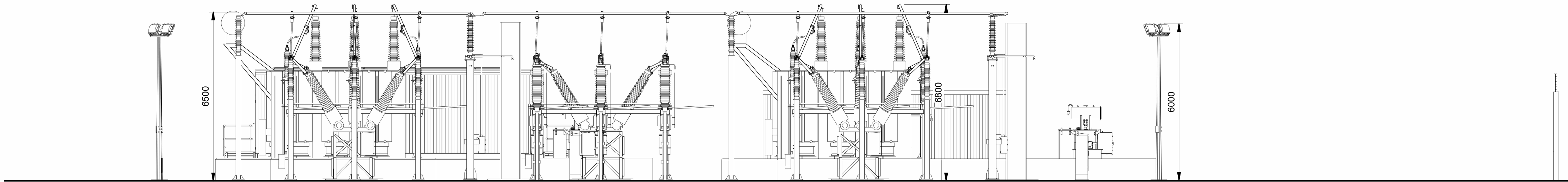
LIMEDOWN SOLAR FARM
132/33kV SUBSTATION COMPOUND
DUAL TRANSFORMERS

PROJECT NAME LIMEDOWN SOLAR FARM		STATUS PRELIMINARY	
CUSTOMER ISLAND GREEN POWER		REVISION P1	
CUSTOMER DRAWING NUMBER ****		SCALE 1:150	
DRAWING NUMBER PR01212-02-LAY-004		SIZE A1	

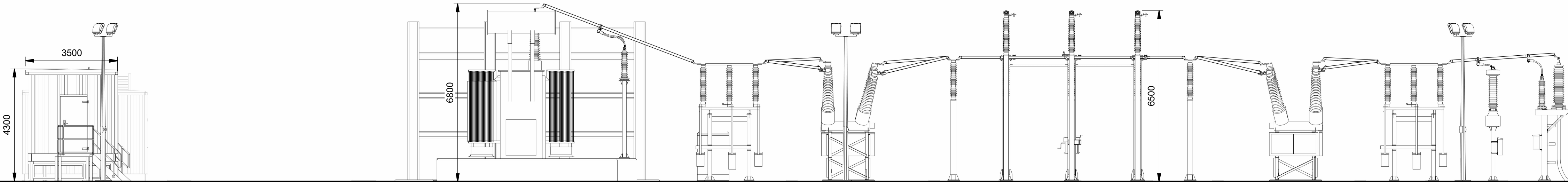
PRELIMINARY
NOT FOR SITE USE

1.2 Illustrative Substation Side Elevations

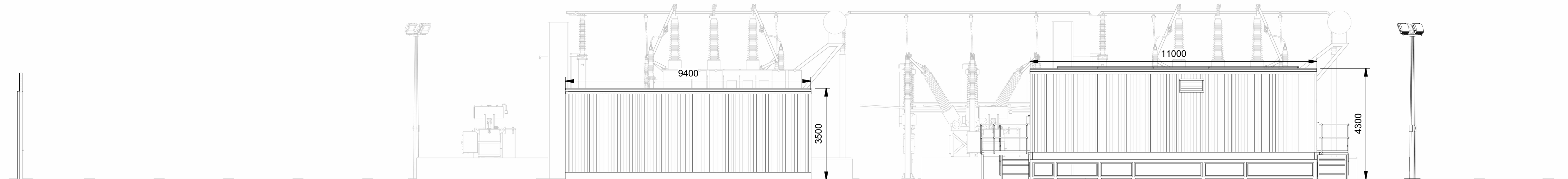
132 kV Substation



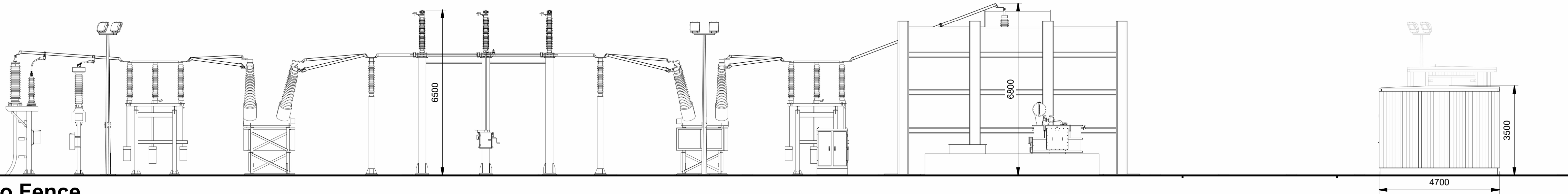
1 North Elevation - No Fence
1 : 100



2 East Elevation - No Fence
1 : 100



3 South Elevation - No Fence
1 : 100



4 West Elevation - No Fence
1 : 100

ISSUE	P1		
DRAWN	JB	FIRST ISSUE	
CHECKED	MG		
APPROVED	JA	DATE	01/04/25

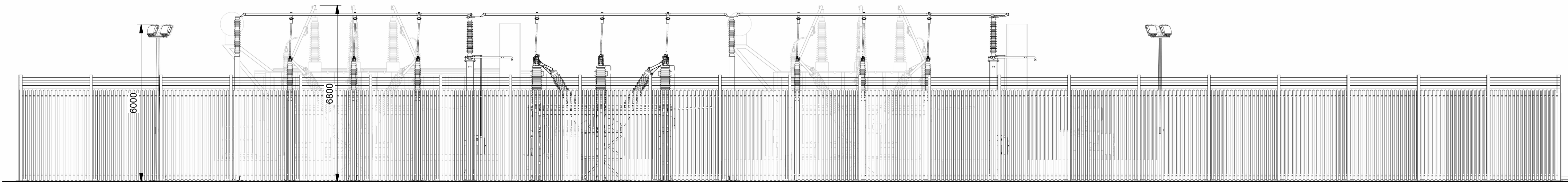


PRELIMINARY

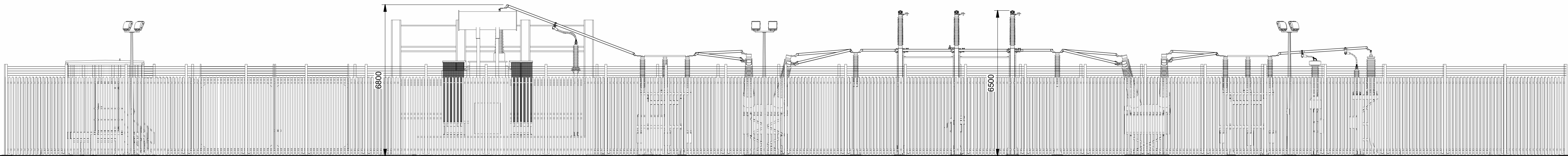
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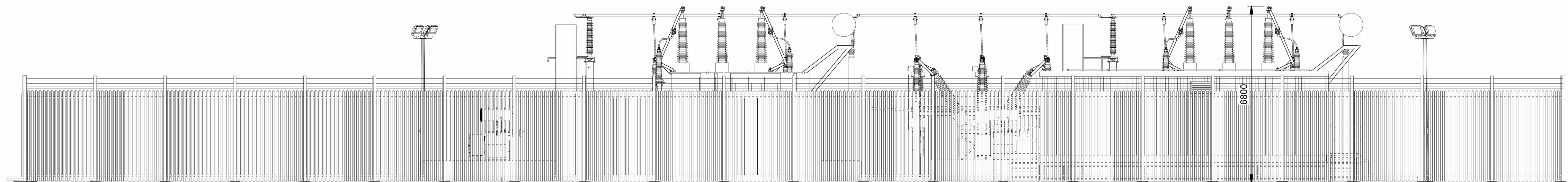
ISLAND GREEN POWER DUAL 132/33kV TRANSFORMER ELEVATIONS		
SITE	LIME DOWN SOLAR PARK	
ORIGINATOR DRAWING NUMBER	PRO1492-LAY-006	
SCALE	SHEET No.	TOTAL No. OF SHEETS
1 : 100	1	2
		ISSUE
		P1



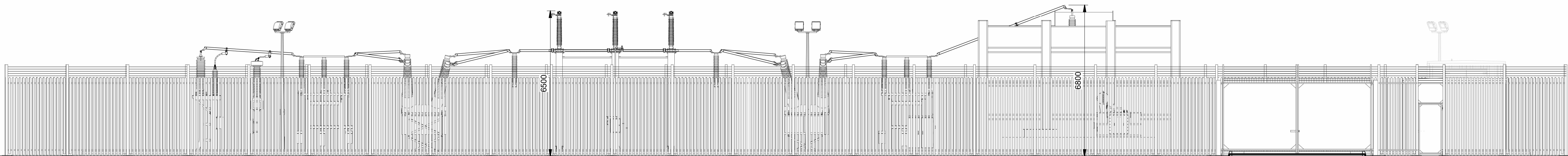
1 North Elevation
1 : 100



2 East Elevation
1 : 100



3 South Elevation
1 : 100



4 West Elevation
1 : 100

ISSUE	P1		
DRAWN	JB	FIRST ISSUE	
CHECKED	MG		
APPROVED	JA	DATE	01/04/25



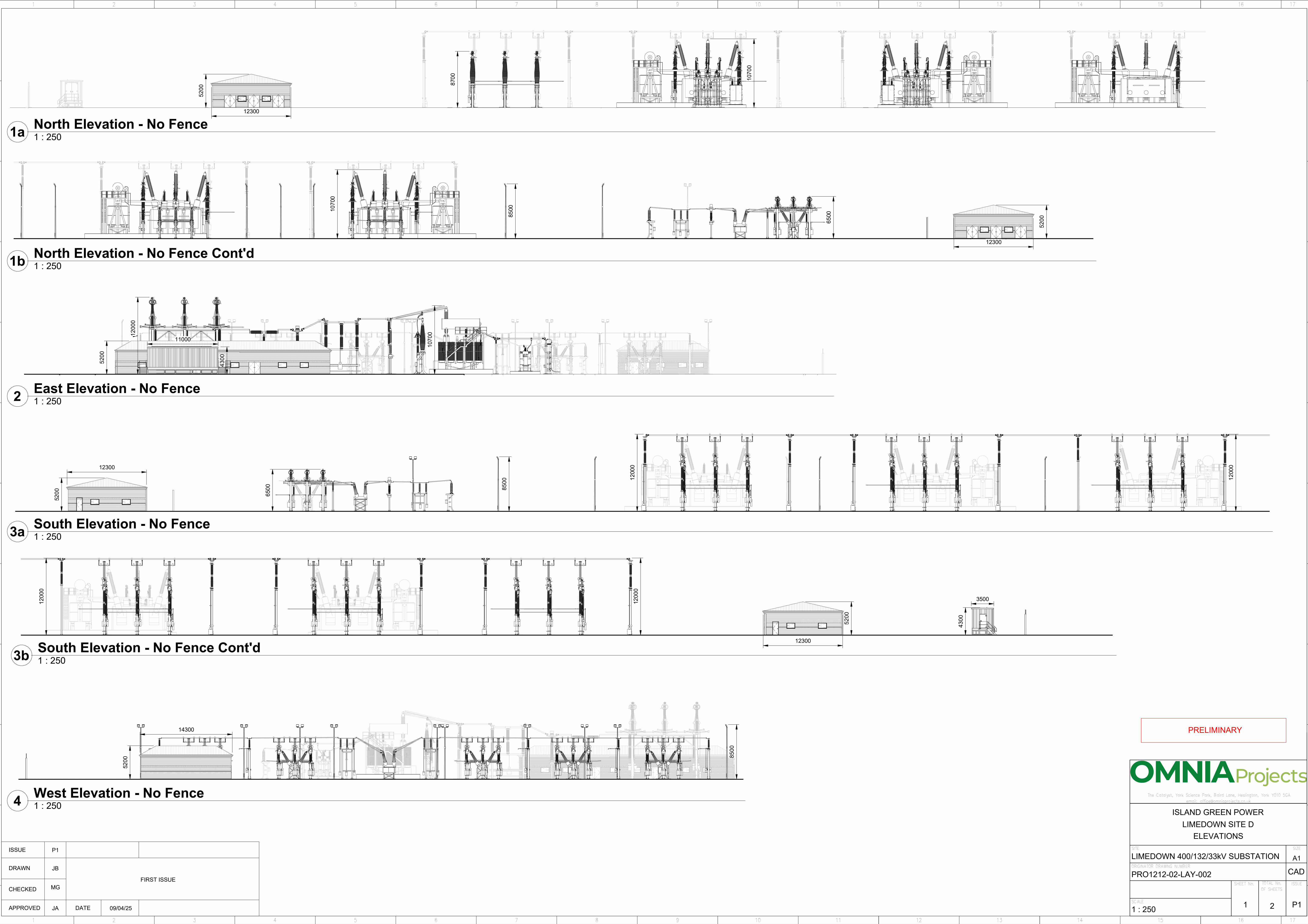
PRELIMINARY

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ISLAND GREEN POWER DUAL 132/33kV TRANSFORMER ELEVATIONS		
SITE	LIME DOWN SOLAR PARK	
ORIGINATOR DRAWING NUMBER	PRO1492-LAY-006	
SCALE	SHEET No.	TOTAL No. OF SHEETS
1 : 100	2	2
		ISSUE
		P1

400 kV Substation



1a North Elevation - No Fence

1 : 250

1b North Elevation - No Fence Cont'd

1 : 250

2 East Elevation - No Fence

1 : 250

3a South Elevation - No Fence

1 : 250

3b South Elevation - No Fence Cont'd

1 : 250

4 West Elevation - No Fence

1 : 250

PRELIMINARY

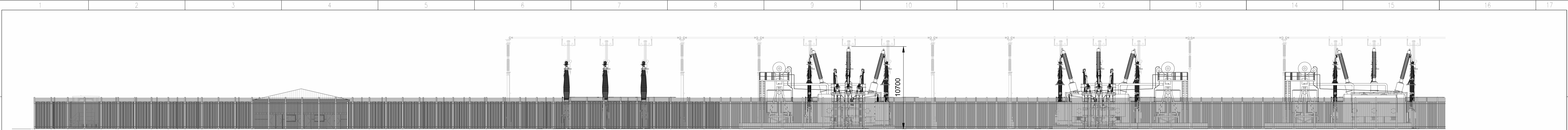
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email: office@omniaprojects.co.uk

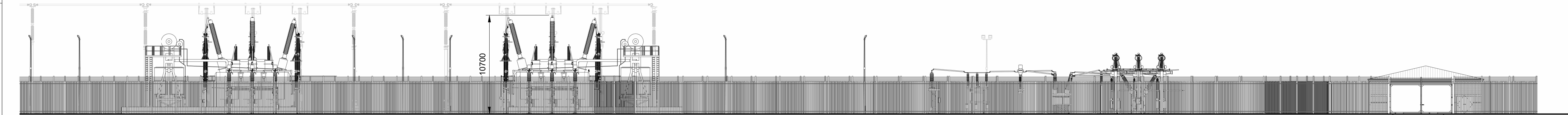
ISLAND GREEN POWER
LIMEDOWN SITE D
ELEVATIONS

SITE LIMEDOWN 400/132/33kV SUBSTATION		SIZE A1
ORIGINATOR DRAWING NUMBER PRO1212-02-LAY-002		CAD
SCALE 1 : 250		SHEET No. 1
		TOTAL No. OF SHEETS 2
		ISSUE P1

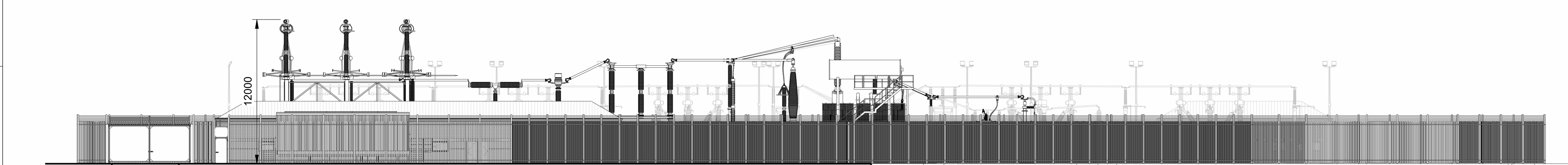
ISSUE	P1			
DRAWN	JB	FIRST ISSUE		
CHECKED	MG			
APPROVED	JA	DATE	09/04/25	



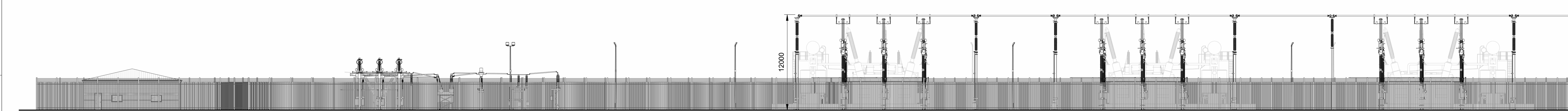
1a North Elevation
1 : 250



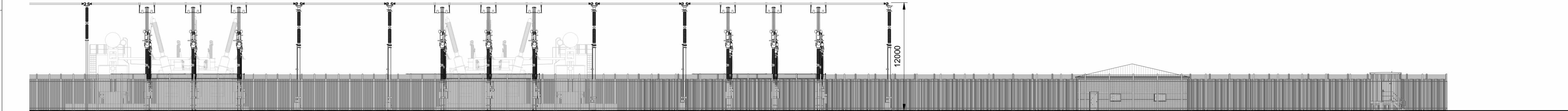
1b North Elevation - Cont'd
1 : 250



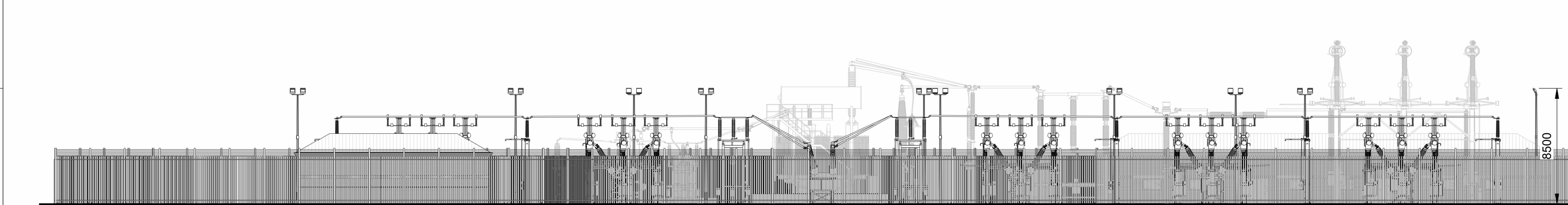
2 East Elevation
1 : 250



3a South Elevation
1 : 250



3b South Elevation - Cont'd
1 : 250



4 West Elevation
1 : 250

ISSUE	P1			
DRAWN	JB	FIRST ISSUE		
CHECKED	MG			
APPROVED	JA	DATE	09/04/25	

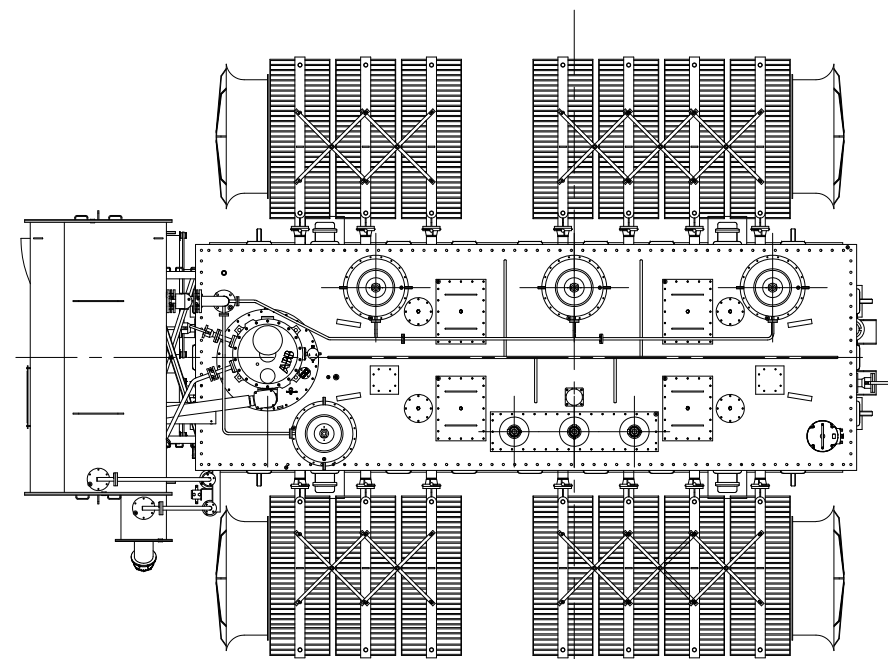
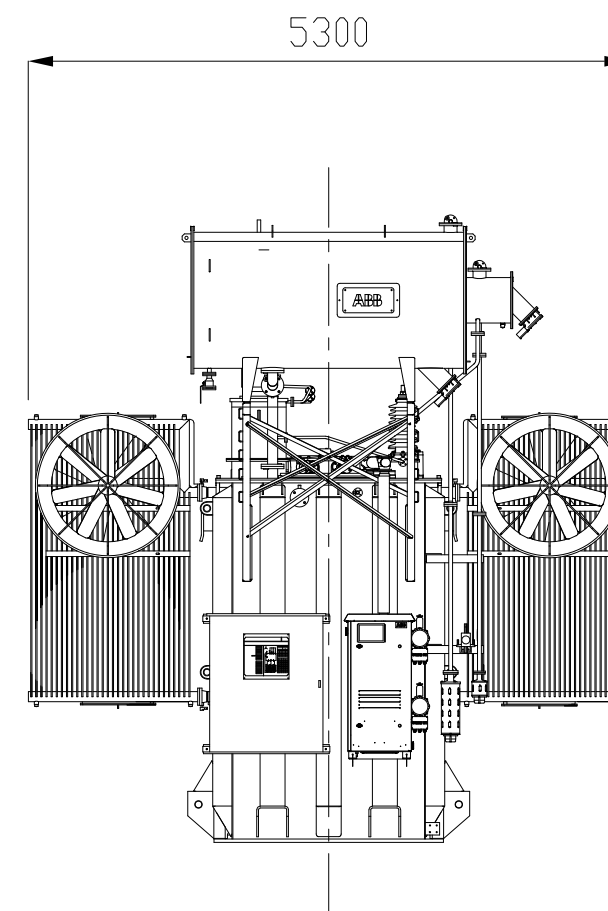
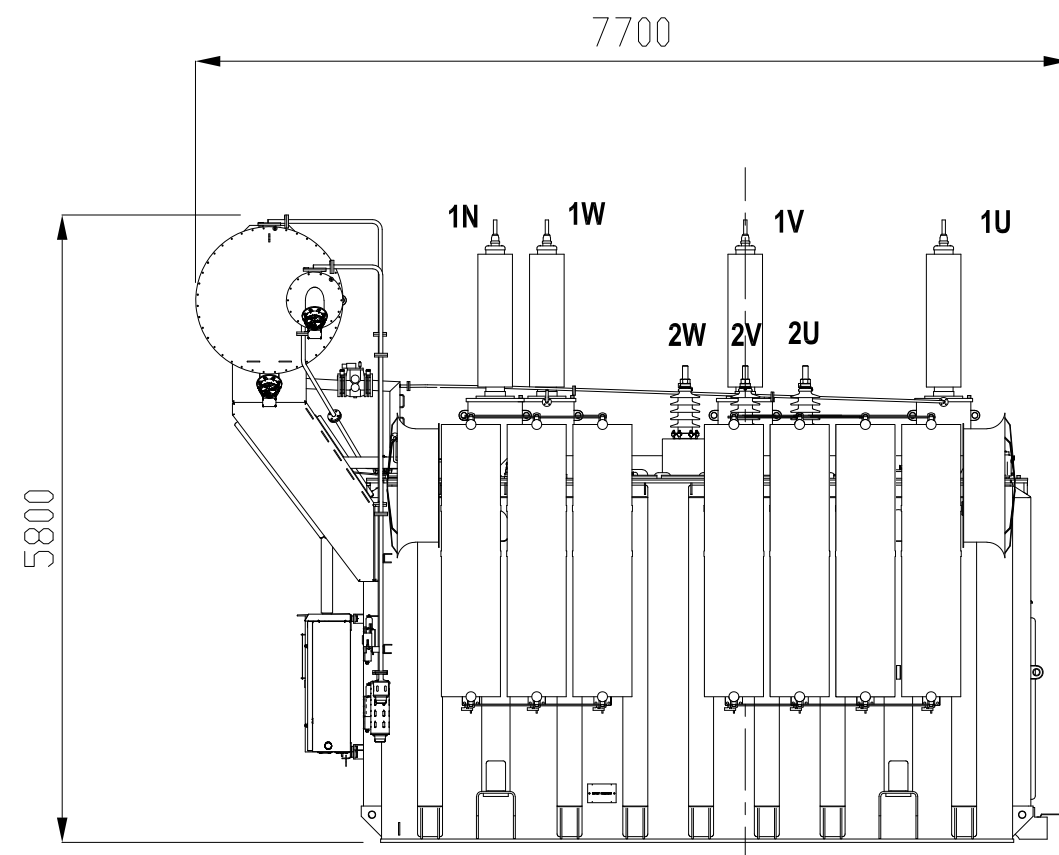
PRELIMINARY

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ISLAND GREEN POWER LIMEDOWN SITE D ELEVATIONS			
SITE LIMEODWN 400/132/33kV SUBSTATION	SIZE A1		
ORIGINATOR DRAWING NUMBER PRO1212-02-LAY-002		CAD	
SCALE 1 : 250	SHEET No. 2	TOTAL No. OF SHEETS 2	ISSUE P1

1.3 Illustrative Transformer Dimensions

132 kV Substation

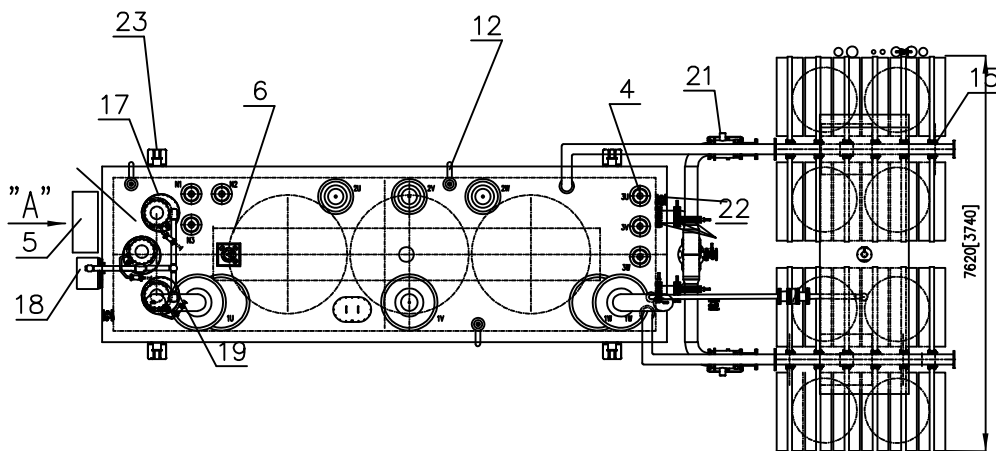
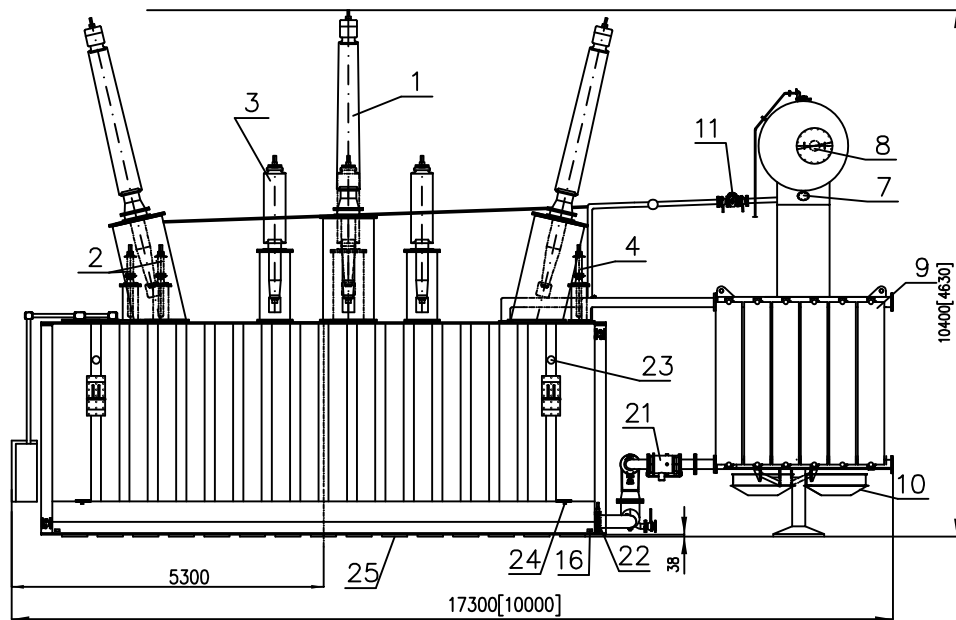


Preliminary Dimensions

RATED POWER MVA	90/120
RATED VOLTAGE kV	132 ±10×1% / 33
FREQUENCY Hz	50
VECTOR GROUP	YNd11
COOLING CLASS	ONAN/ONAF
UNTANKING MASS Kg	64000
TRANSFORMER TOTAL OIL Kg	22000
TRANSFORMER TOTAL MASS Kg	120000

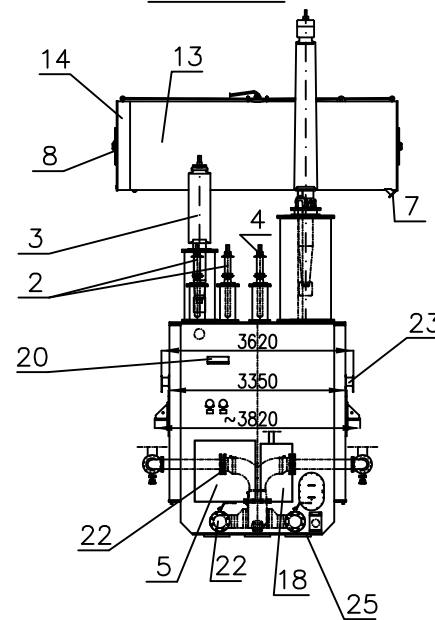
Prep.	Resp. dept. ENG	Title Preliminary Drawing		Lang. EN
App.	Takeover dept. ENG			
Rev. 00	Rev. by	Rev. App.	Scale -	Suffix
Doc.Numb.			Cont. 1 Sheet 1	

400 kV Substation



Dimensions and masses are preliminary and may change during the final design. They may not be used for construction purposes.

View "A"



Total mass ~340000kg
 Transp.mass without oil ~183000kg
 Untanking part ~121800kg
 Oil ~105200kg

Transport dimensions [....]

Item	SPECIFICATION
1	HV bushing(3 pcs.)
2	Common neutral bushing(3 pcs.)
3	LV bushing(3 pcs.)
4	TV bushing(3 pcs.)
5	Control cabinet
6	Core and beams ground outlook box
7	Oil level indicator for main conservator
8	Oil level indicator for OLTC conservator
9	Radiator
10	Fan
11	Buchholz relay with sampling device
12	Pressure relief device with directional piping
13	Main Conservator with air bag
14	OLTC Conservator
15	Butterfly valve for radiator
16	Grounding plate for tank
17	OLTC Tap changer(3 pcs.)
18	Motor drive for OLTC tap changer
19	Oil flow operated relay for OLTC protection
20	Impact recorder for transport
21	Oil pump
22	Butterfly valve for cooling system
23	Lifting lugs
24	Jacking pad
25	Antivibration pads

Preliminary outline drawing
 240MVA 400/132/33 kV , YNaOd , Transformer

Drq No.	Replaces	Date	ture
	Designed		
	Replaced by	Checked	
		Approved	
HITACHI ENERGY			Page Pages

1.4 Illustrative Drawings of Solar PV Concrete Feet

- 1.4.1 The second figure illustrates the use of one panel '1P' tracker panels with a height of 3.5m. This configuration has been selected for illustrative purposes because it is compatible with concrete footings. In contrast, two panel '2P' tracker panels —up to 4.5m high—are not compatible with the concrete feet.

West



West



West



4,94



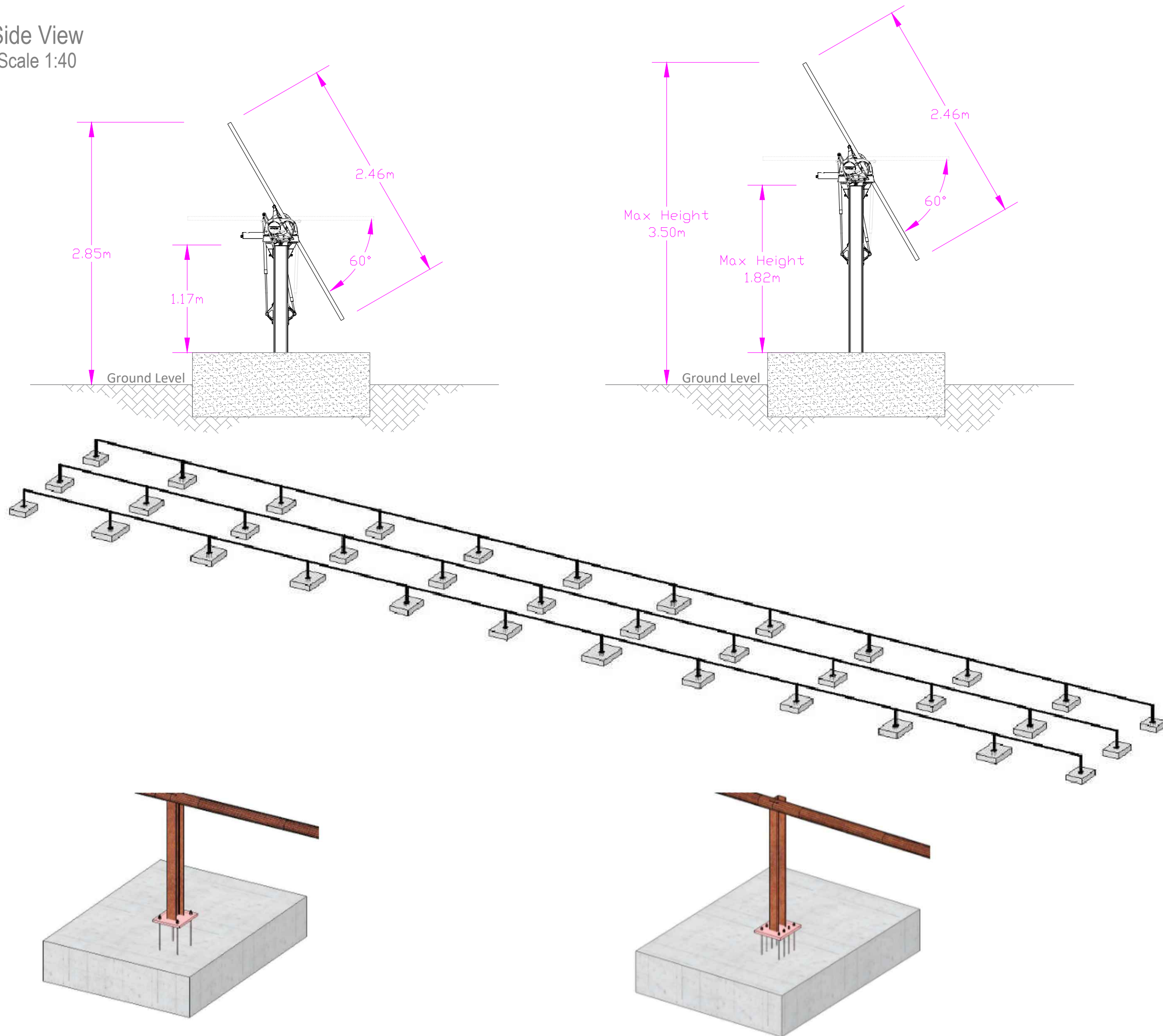
Ground Level

General Legend:

[illegible]

Document Title:	Mounting Structure Details - Fixed Concrete Feet - Side, Front and Top Views		
Sheet format:	A3 "420 x 297"	Scale:	Varies
Document amendments:	v.1	22/12/2022	M.N.
Company:	 Island Green Power UK Limited Unit 202, 202 D, Code Studio 189 Munster Road, London SW6 6AU		

Side View
Scale 1:40

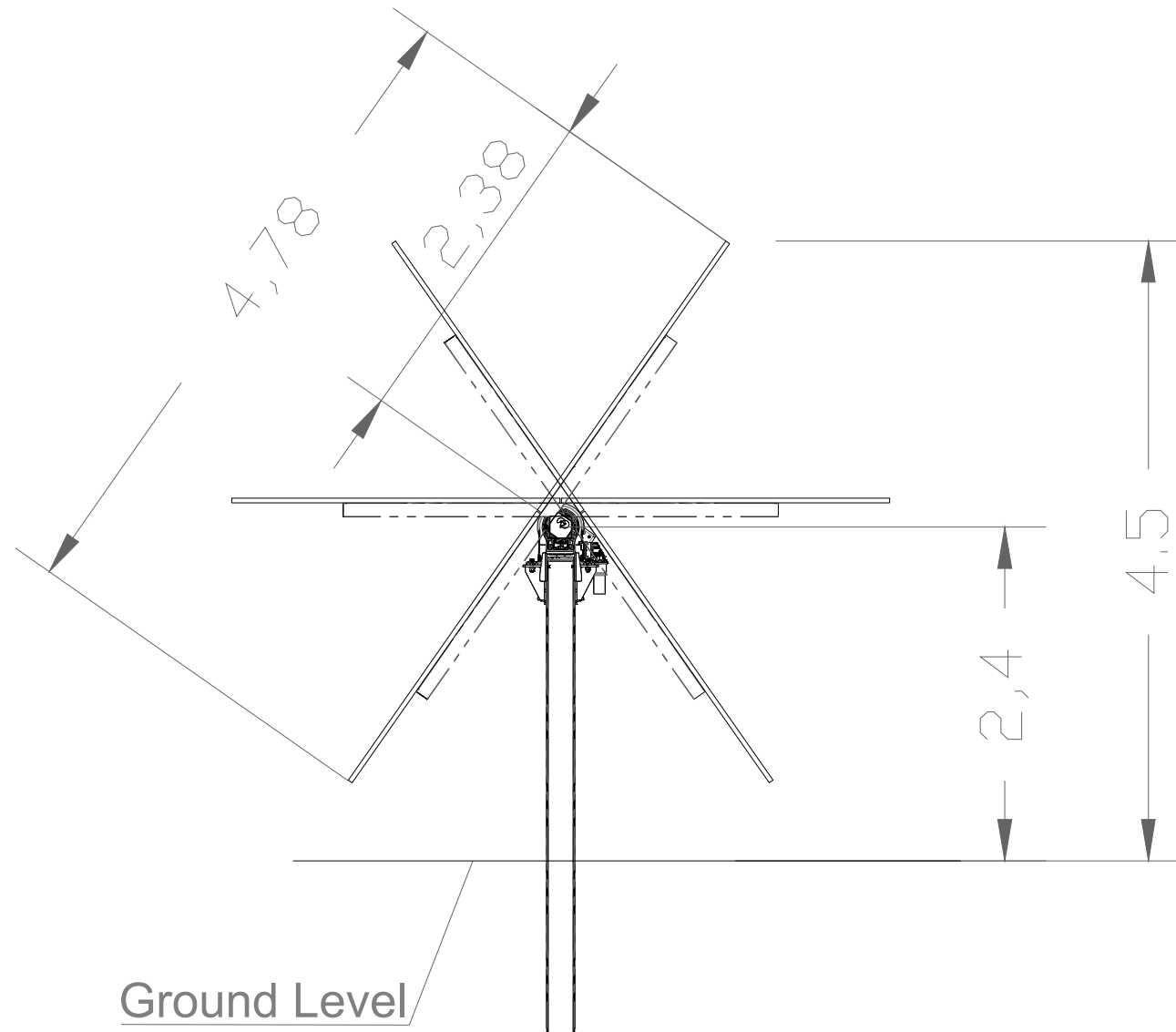
[illegible]

Project:	Lime Down Solar Park		
Project Location:	Land near Whitley, Melksham, Wiltshire, SN12 8QB, England, United Kingdom		
Ownership:	TBC		
Document Title:	Mounting Structure Details - 1P Tracker - Concrete Feet		
Sheet format:	A3 "420 x 297"	Scale:	Varies
Document enforcements:	v.1 21/10/2024 M.N.	Comments:	
Company:	 	Island Green Power UK Limited Unit 25.7, Coda Studios 189 Munster Road, London SW6 6AU	

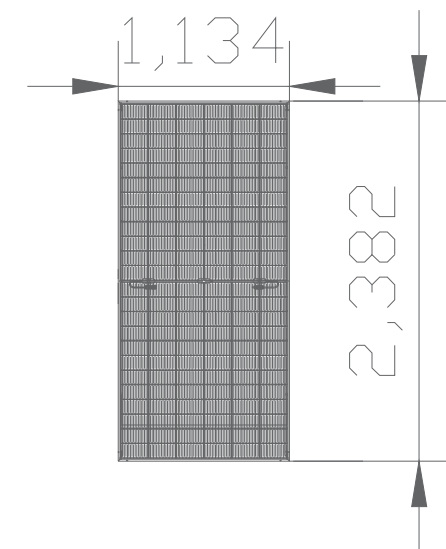
1.5 Single Axis Tracker Mounting Structure Side View

Side View
Scale 1:50

Side View



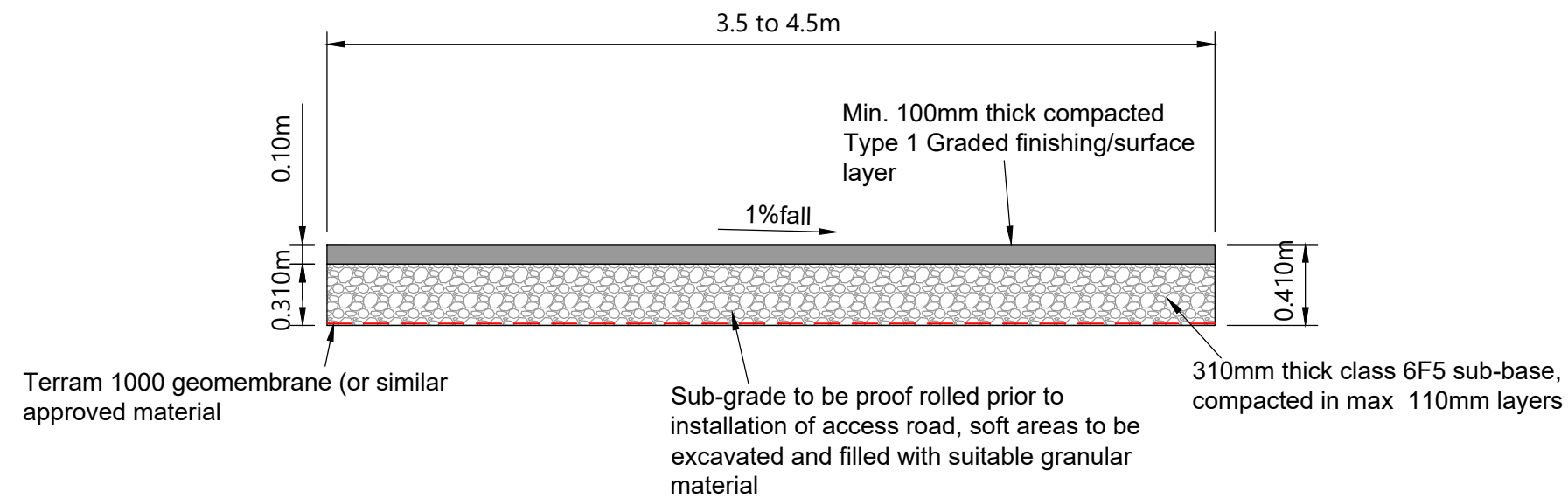
Indicative PV Panel

[illegible]

Project:	Lime Down Solar Park			
Project Location:	Land near Hullavington, Wiltshire England			
Ownership:	Lime Down Solar Park Ltd			
Document Title:	2P Tracker Solar Panel Mounting Structure			
Sheet format:	A3 "420 x 297"		Scale:	
Document amendments	v.1	06/05/2026	A.C.	First Revision
			Comments	
Company:	Island Green Power UK Limited Unit 25.7, Coda Studios 189 Munster Road, London SW6 6AW			

1.6 Illustrative Access Tracks

132 kV Substation



Permanent Access Road with Minimum specification

Table 9.1- Access Road Specification

Detail	Permanent Access Road
Excavation Depth	410mm minimum, subject to expected vehicles loads passing on
Road width	Subject to expected vehicles to pass on 3500mm for standard vehicles access. 4500mm for major plant installation, removal or replacement.
Filling Material	6F5 material placed, compacted and rolled to create the roadway sub-base layer placed on 1000 gauge geo-membrane
Finished Surface	Compacted and rolled to an even surface and a 1% gradient from one side to the other

Sub-grade depth varies depending on the CBR Value of the substrata in accordance with table 9.2. Substrates with a CBR of less than 2% require stabilisation and reinforcement prior to the road being constructed.

Table 9.2- CBR vs Subgrade Depth

CBR	Thickness
2%	370mm
4%	240mm
5%	200mm

NOTES:

Rev	Date	Details	Drawn by	Checked by	Approved by

Bristol
Cambridge
London
Welwyn Garden City



40 Berkeley Square
Clifton
Bristol
BS8 1HP

0117 925 9400
www.tpa.uk.com

CLIENT:

IGP SOLAR 15 LTD

PROJECT:

LIME DOWN SOLAR PARK

TITLE:

AIL Internal Access Road
Cross-Sections for 132kV
Substation

STATUS:

ILLUSTRATIVE

SCALE: NTS	DATE: 06.08.26	DRAWN: RG	CHECKED: STM	APPROVED: JD
JOB NO: 2306-020	DRAWING NO: PL216	REVISION: -		

400 kV Substation

ORIGINAL
PLOT SIZE

NOTES:



	Blacktop surface course
	Bituminous material
	Untreated granular material
	Natural ground

AIL Internal Access Road Cross-Sections for BESS and 400kV Substation

ILLUSTRATIVE

JOB NO: 2306-020	DRAWING NO: PL212	REVISION: A
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