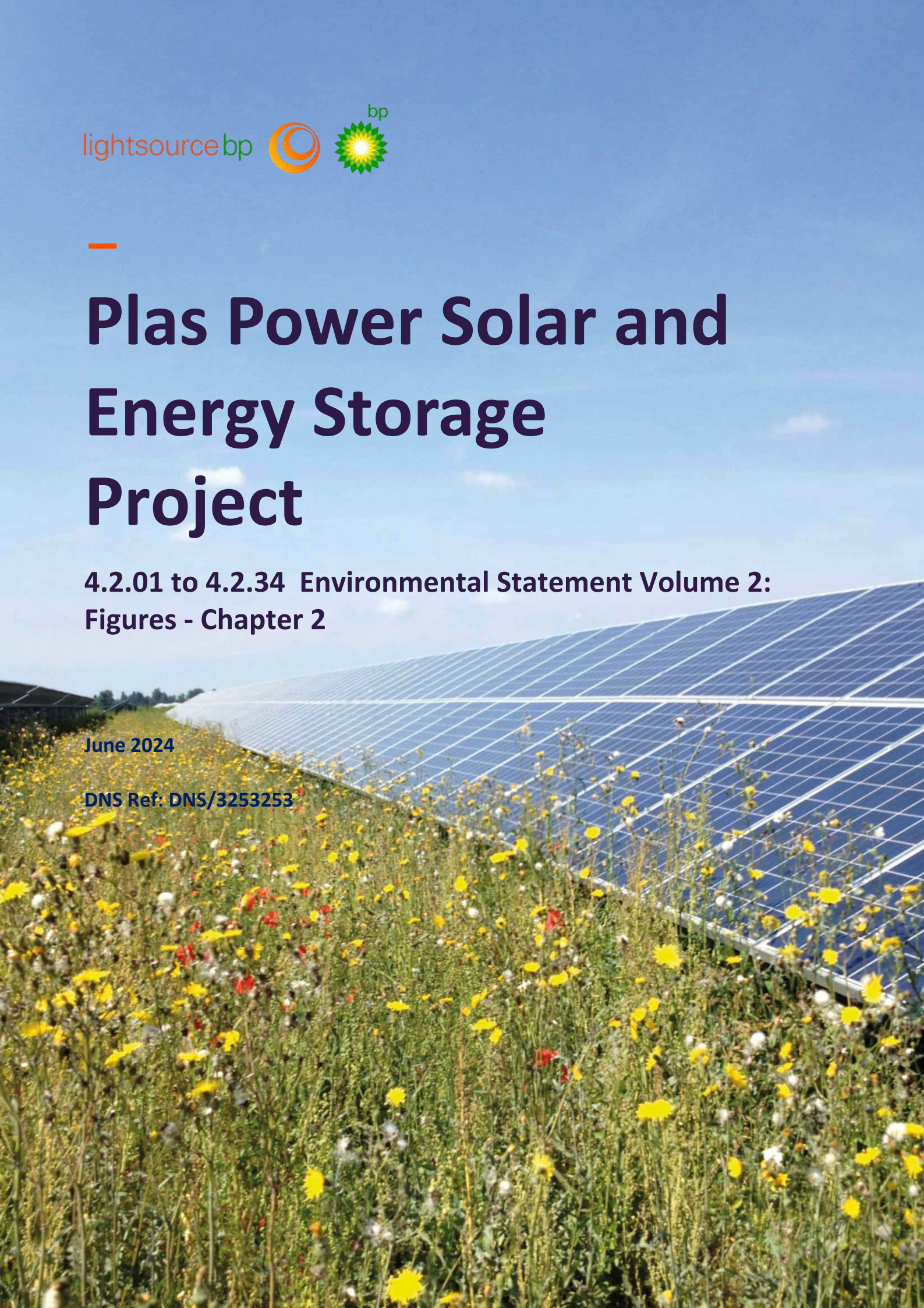


Plas Power Solar and Energy Storage Project

4.2.01 to 4.2.34 Environmental Statement Volume 2: Figures - Chapter 2

June 2024

DNS Ref: DNS/3253253

Chapter 2: Proposed Development Description
Figures

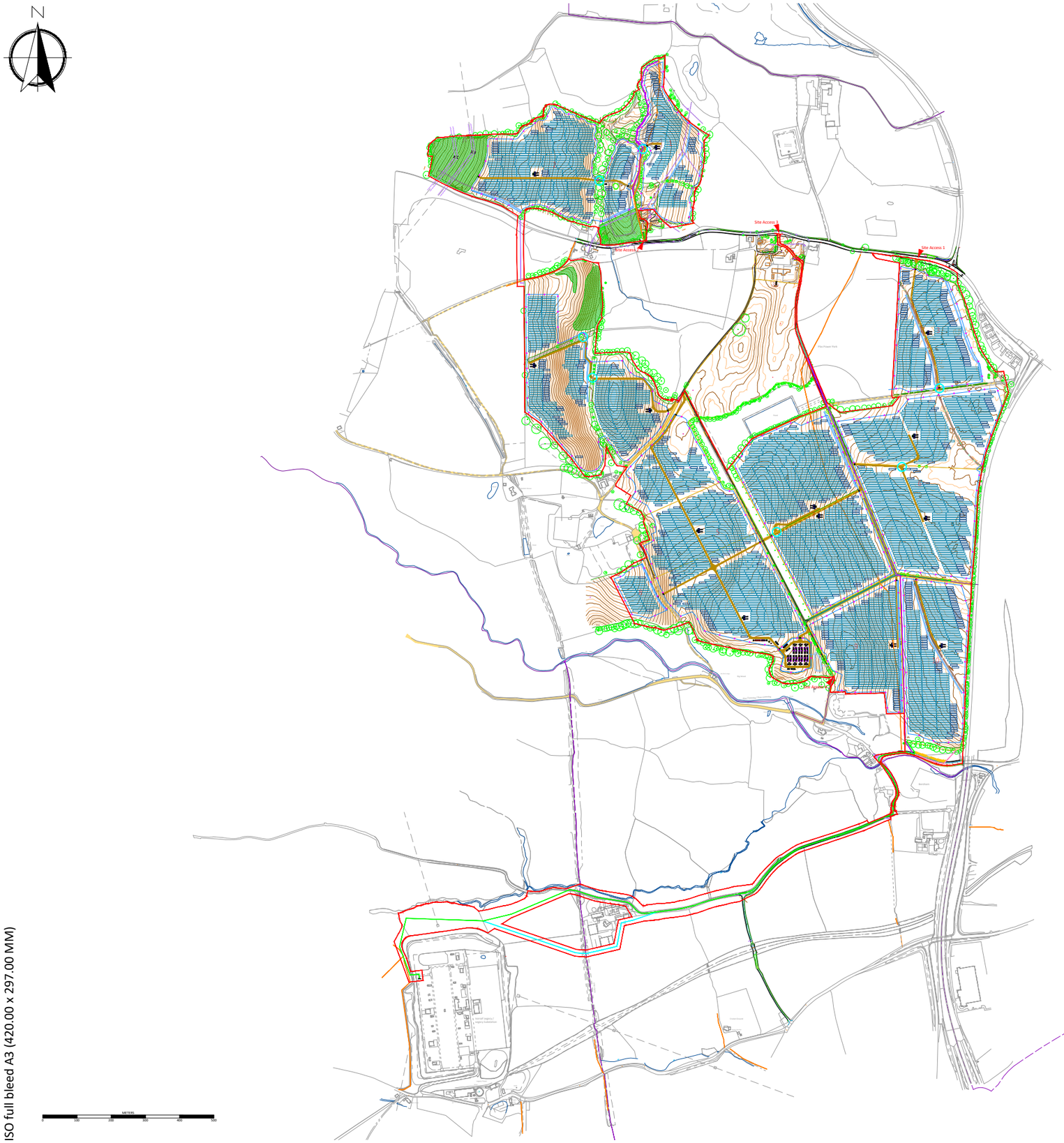
Figure 2.1
Site Location Plan (Drawing Number: JPW1473-DNS-007)


N
A525
Plas Power Park
Overton Hall
Bay Wood
Beeham
Overton Grange
Kennel Lodge
Kennel Lodge Kennels
Kennel Lodge Cottage
Kennel Lodge Farm
Kennel Lodge Solar Farm
Kennel Lodge Substation
Overton Hall
Overton Hall Cottage
Overton Hall Farm
Overton Hall Farm Cottages
Overton Hall Farm Barn
Overton Hall Farm Barn
Overton Hall Farm Barn

Figure 2.2a
Indicative Site Layout Plan (Solar and Battery) (Drawing Number: LP2-PDL)

GBR_Plas Power Solar & Battery Project_LP2 - Indicative Site layout_15

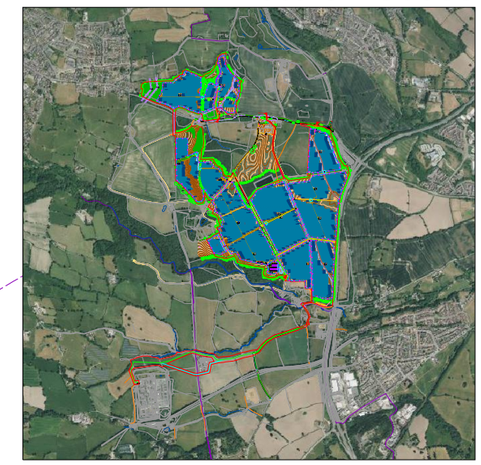
Area 1,355,959 m2 (335.06 acres)



- Site Boundary
- Site Access
- Security Fence
- Module Table 30 x 2
- Module Table 15 x 2
- Transformer
- Inverter
- Switchgear Substation
- PV Intake Substation
- GRP
- Customer Substation
- Monitoring House
- Auxiliary Transformer
- Spares Container
- Access Road
- Access Gates
- CCTV
- Toilet
- BESS Enclosure x 4
- BIC
- Twin MV Skid
- Backup Generator
- BESS Intake Substation
- Spares Container
- BESS Security Fence
- Landscape / Biodiversity
- Preferred Cable Route Option
- Cable Route Option 1
- Cable Route Option 2
- Cable Route Option 3
- Cable Route
- Existing PRoW
- Proposed PRoW diversion
- Possible hedge removal
- Indicative Swales
- Attenuation Pond
- Existing Access Road
- Existing Tree
- Existing Hedgerow/Vegetation
- Existing Ditch
- Cable Sealing End

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Scale 1:50000



DA			22.05.2024
DRAWN	CHECKED	APPROVED	DATE

PROJECT NAME & ADDRESS:
Location: Plas Power Estate, Rhosrobin
Postcode: Caego, Wrexham, Wales

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Paper Size:	Scale:	Sheet:
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CAPACITY:

DRAWING TITLE:
GBR_Plas Power Solar & Battery Project_LP2 - Indicative Site Layout_15

DRAWING NUMBER:	STATUS:
LP2-PDL	

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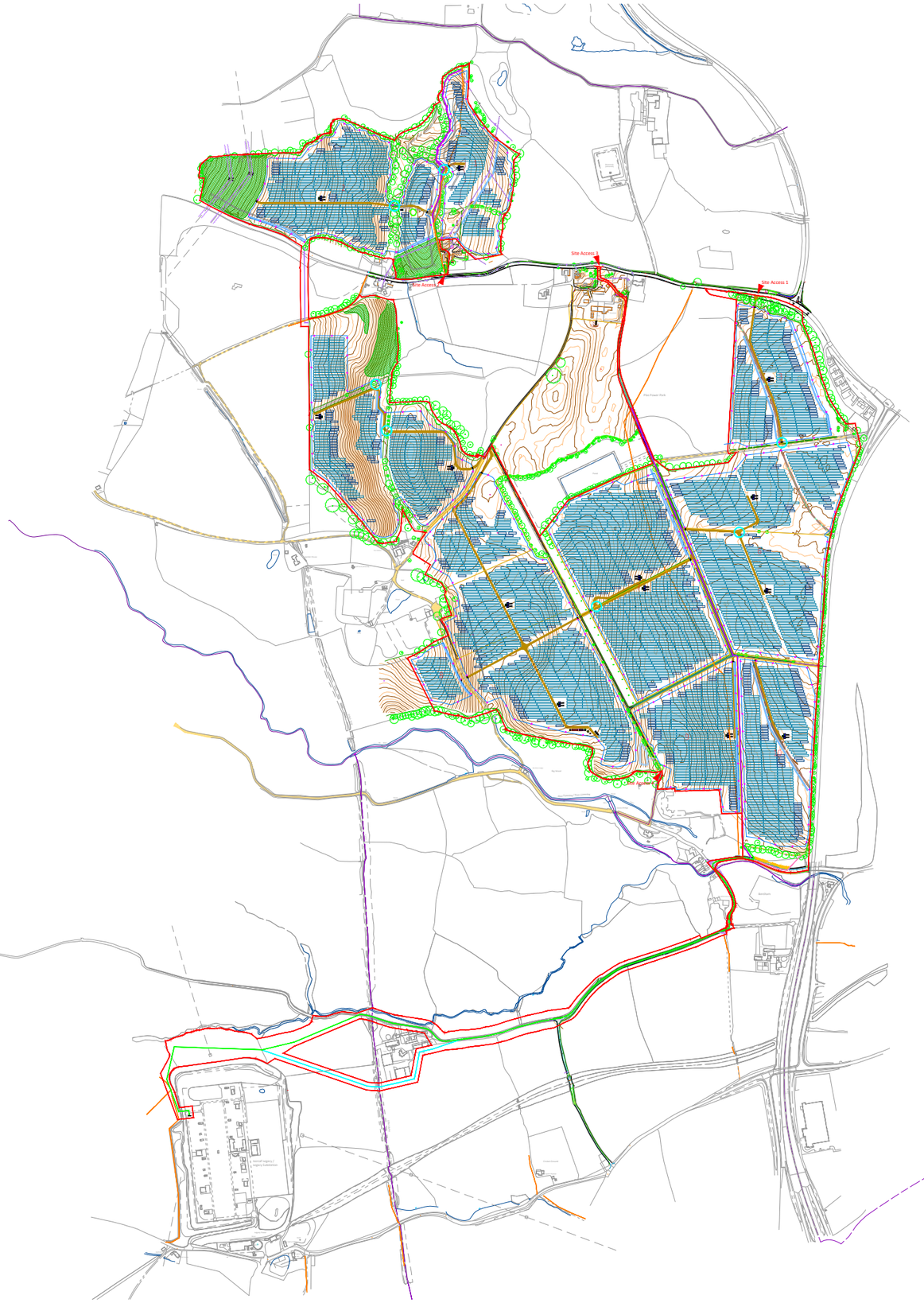
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ISO full bleed A3 (420.00 x 297.00 MM)

Figure 2.2b
Indicative Site Layout Plan (Solar) (Drawing Number: LP2-PDL-S)

GBR_Plas Power Solar & Battery Project_LP2 - Indicative Site layout_15

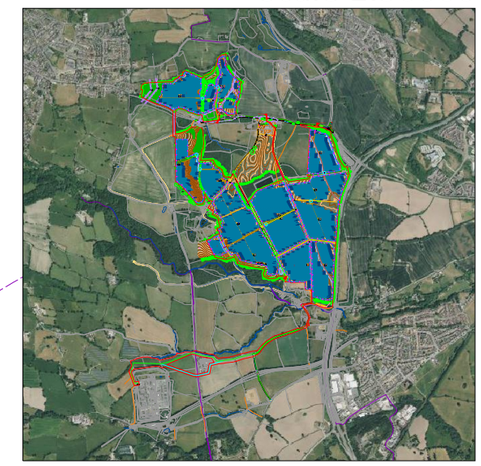
Area 1,355,959 m2 (335.06 acres)



- Site Boundary
- Site Access
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- Module Table 30 x 2
- Module Table 15 x 2
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- Inverter
- Switchgear Substation
- PV Intake Substation
- GRP
- Customer Substation
- Monitoring House
- Auxiliary Transformer
- Spares Container
- Access Road
- Access Gates
- CCTV
- Toilet
- BESS Enclosure x 4
- BIC
- Twin MV Skid
- Backup Generator
- BESS Intake Substation
- Spares Container
- BESS Security Fence
- Landscape / Biodiversity
- Preferred Cable Route Option
- Cable Route Option 1
- Cable Route Option 2
- Cable Route Option 3
- Cable Route
- Existing PRoW
- Proposed PRoW diversion
- Possible hedge removal
- Indicative Swales
- Attenuation Pond
- Existing Access Road
- Existing Tree
- Existing Hedgerow/Vegetation
- Existing Ditch
- Cable Sealing End

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Location: Plas Power Estate, Rhosrobin
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CAPACITY:

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DRAWING NUMBER:	STATUS:
LP2-PDL-S	Pre-application Consultation

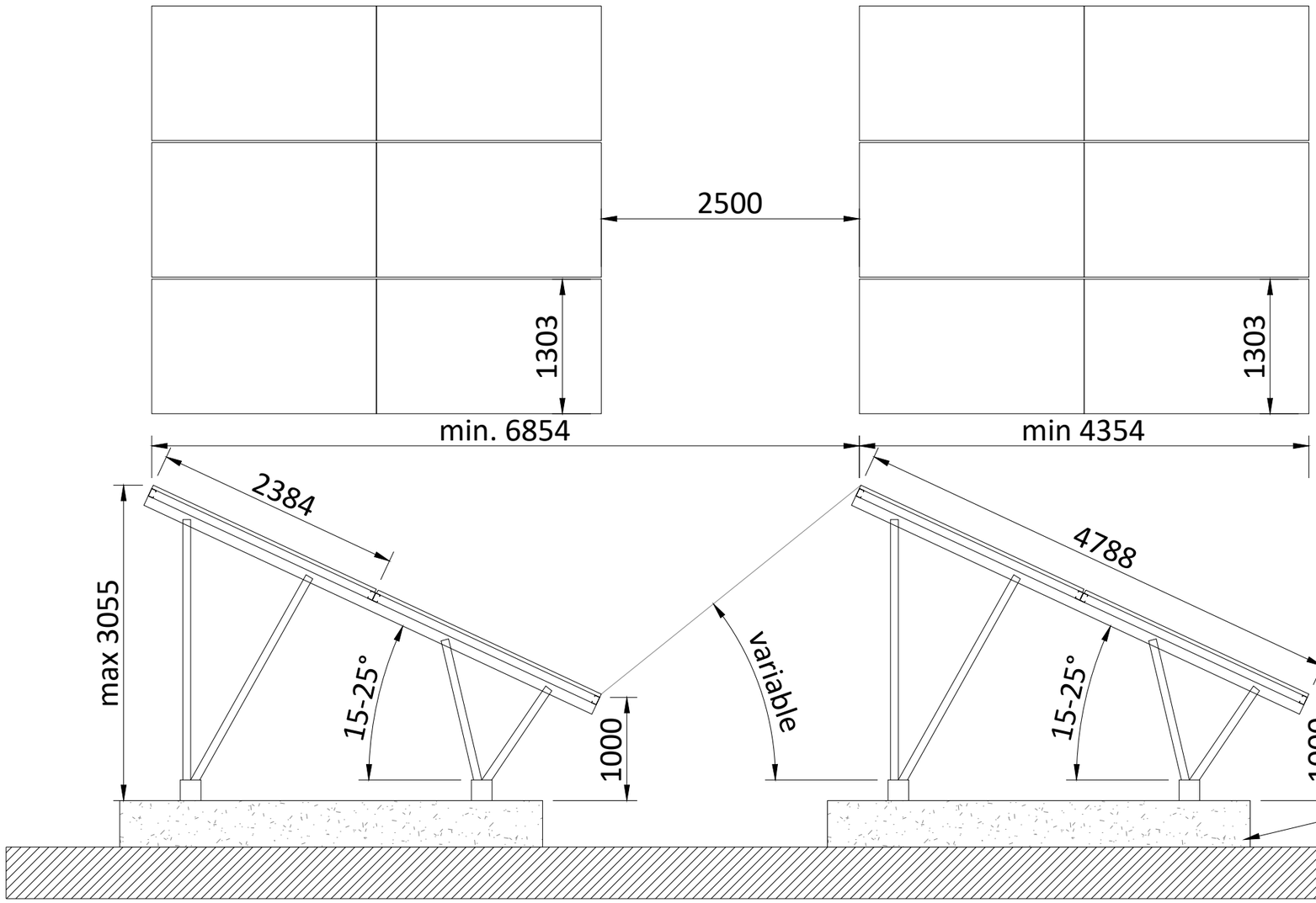
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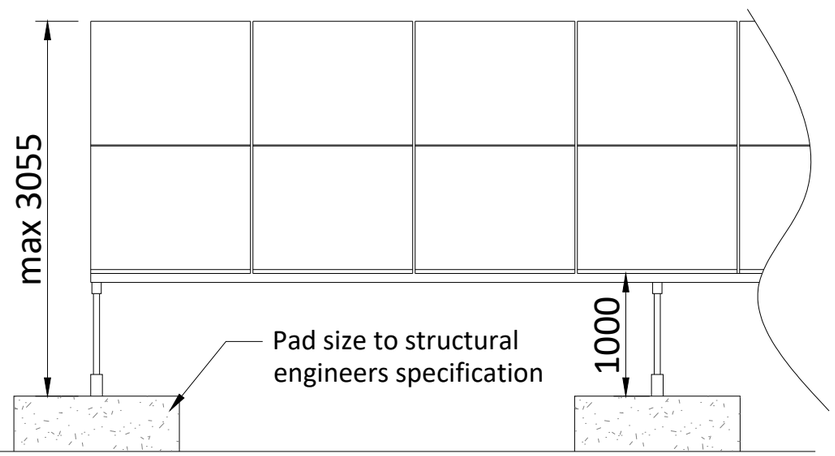
Figure 2.3
Indicative Panel Elevation with Concrete Feet (Drawing Number: FT-2P-25-6854-cf)

GBR_Indicative EPD_Fixed Tilt-2 Portrait-Tilt 25-Pitch 6854-Concrete Feet_01

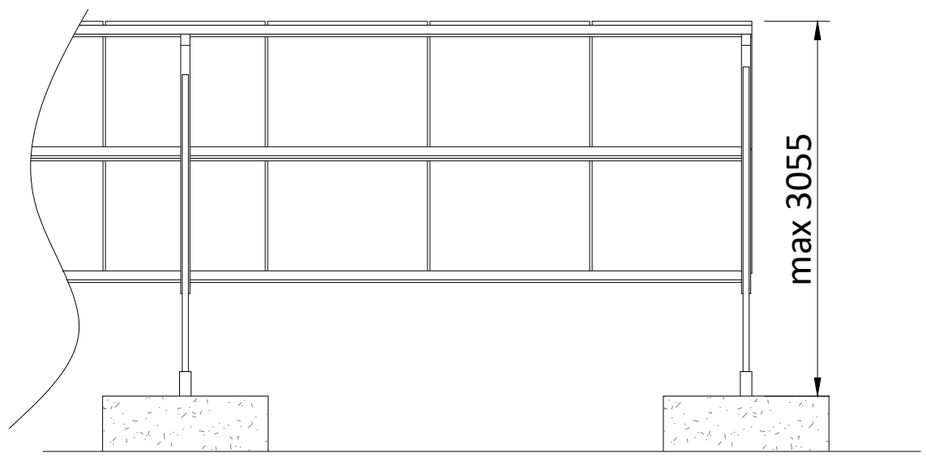


Plan

Typical
Section



Typical Elevation



Typical Rear Elevation

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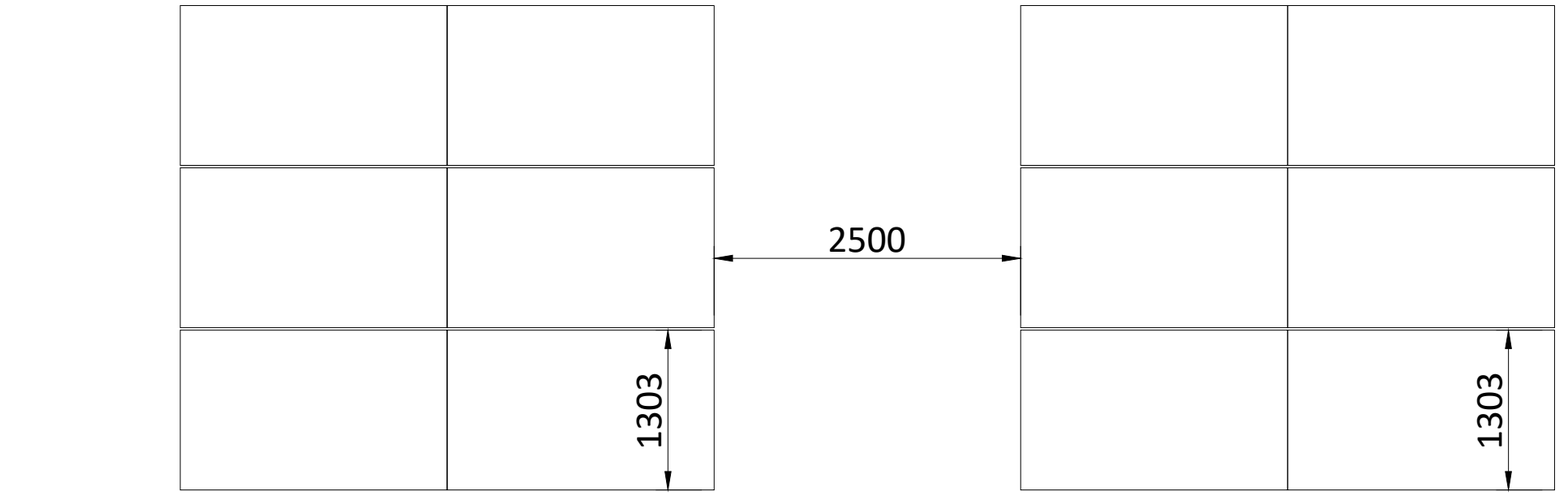
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DA			Nov. 2023
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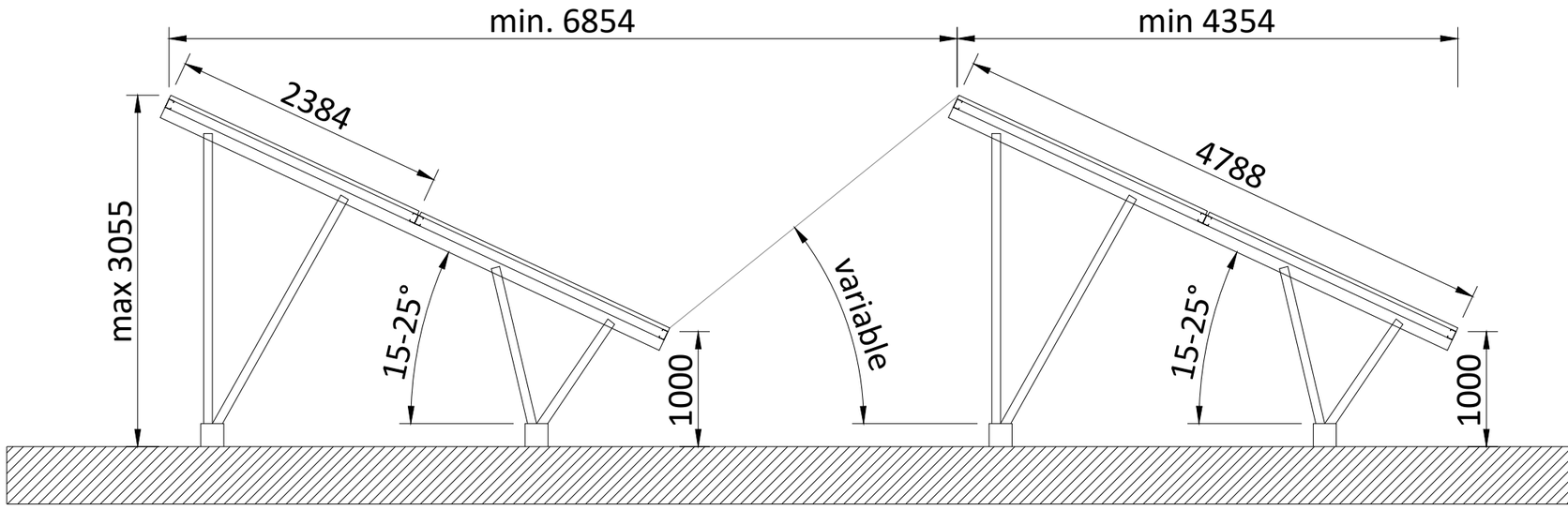
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Figure 2.4
Indicative Panel Elevation (Drawing Number: FT-2P-25-6854)

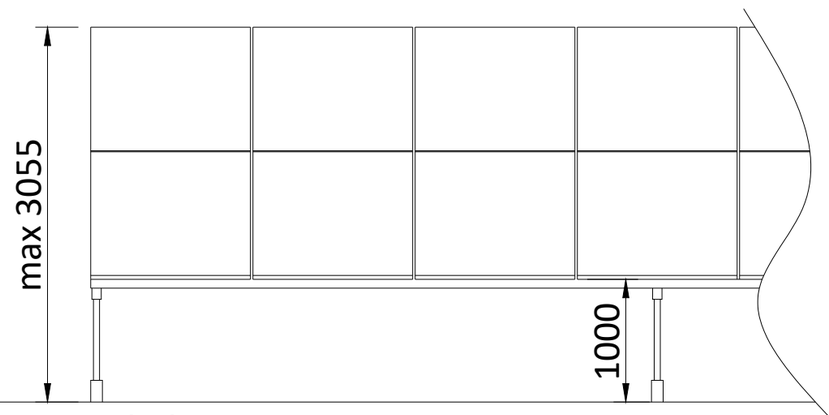
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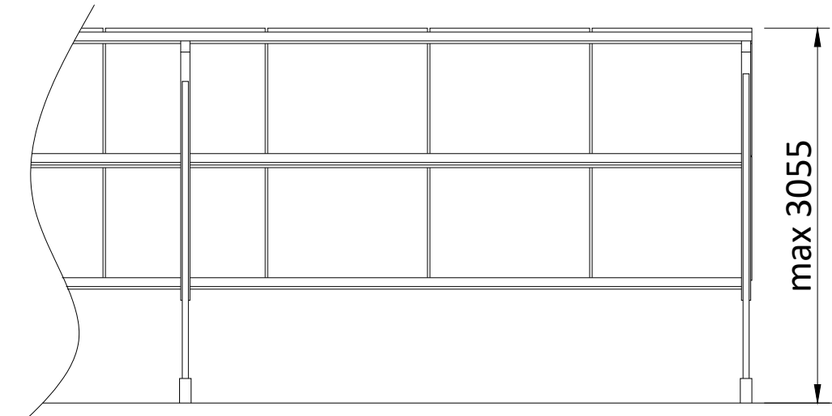
Plan



Typical Section



Typical Elevation



Typical Rear Elevation

METERS

0 1 2 3 4 5

A3 - (420 x 297)mm

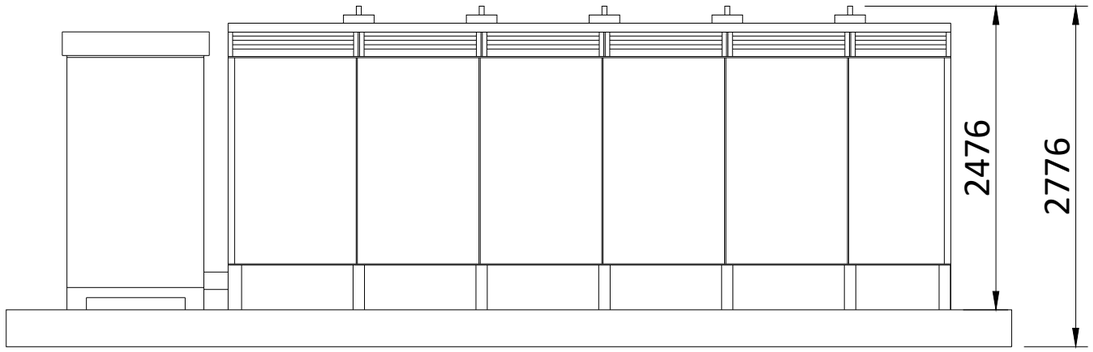
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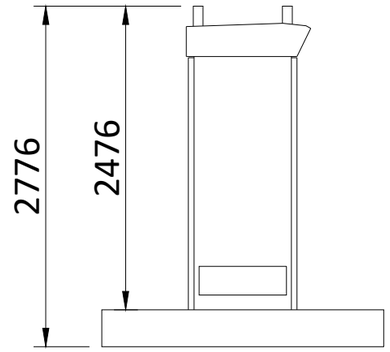
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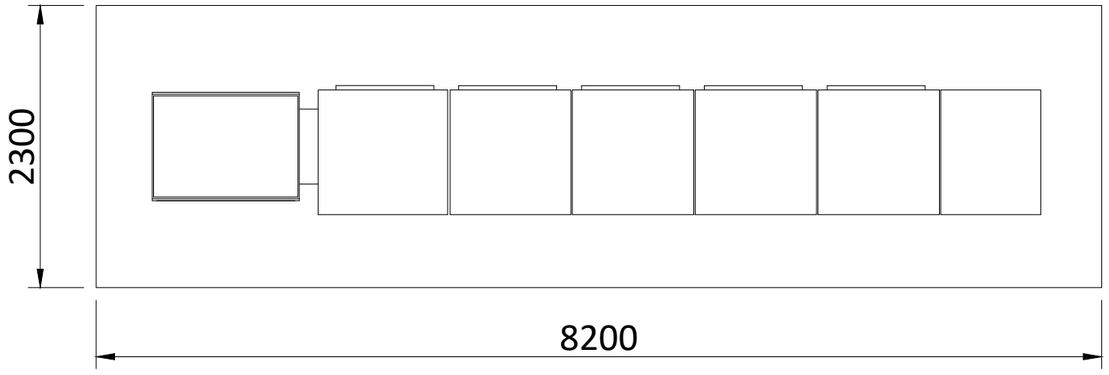
Figure 2.5
Inverters (Drawing Number: GBR_EPD_INV)



Front View



Side View



Plan View

A3 - (420 x 297)mm

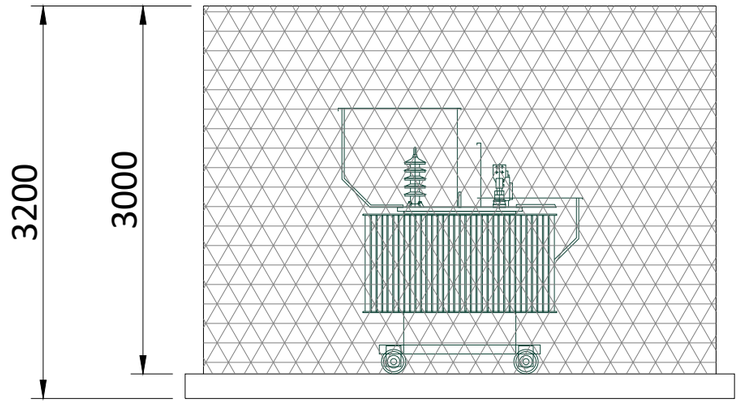


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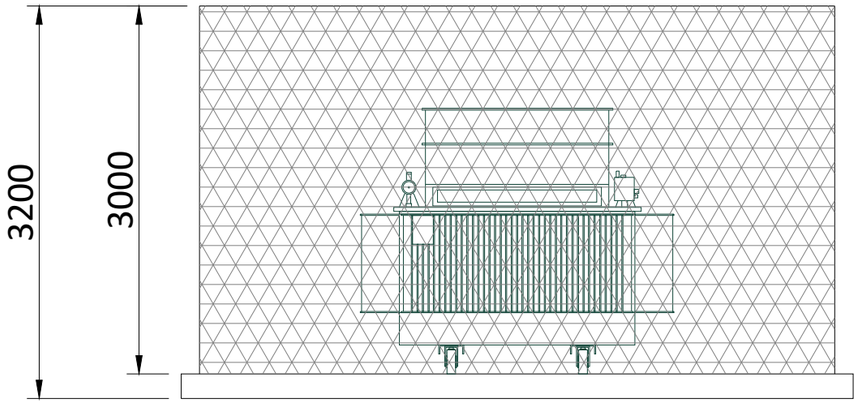
GBR_EPD_Inverter_01			
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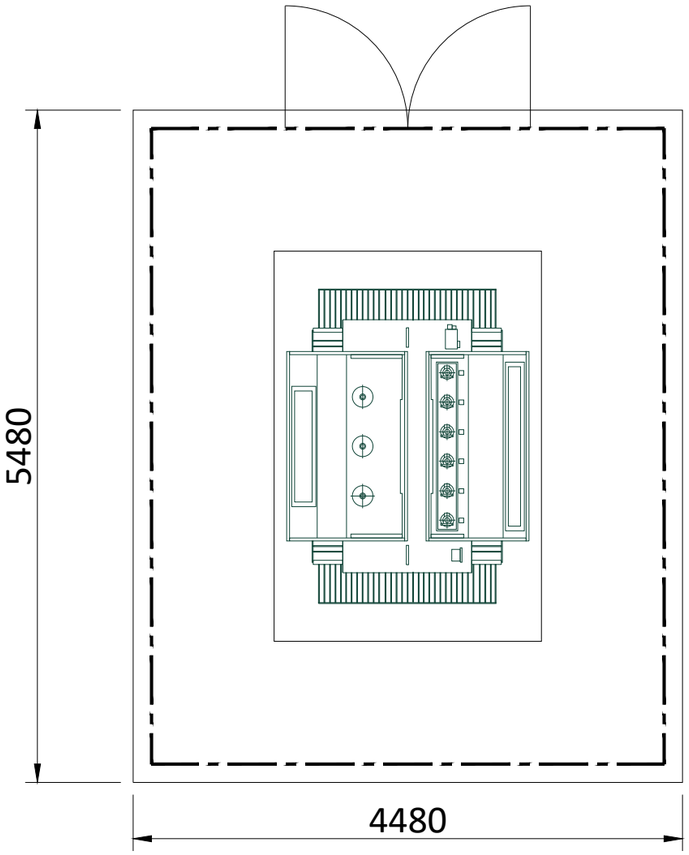
Figure 2.6
Transformers (Drawing Number: GBR_EPD_TFM)



Front View



Side View



Plan View

METERS
0 1 2 3 4 5

A3 - (420 x 297)mm

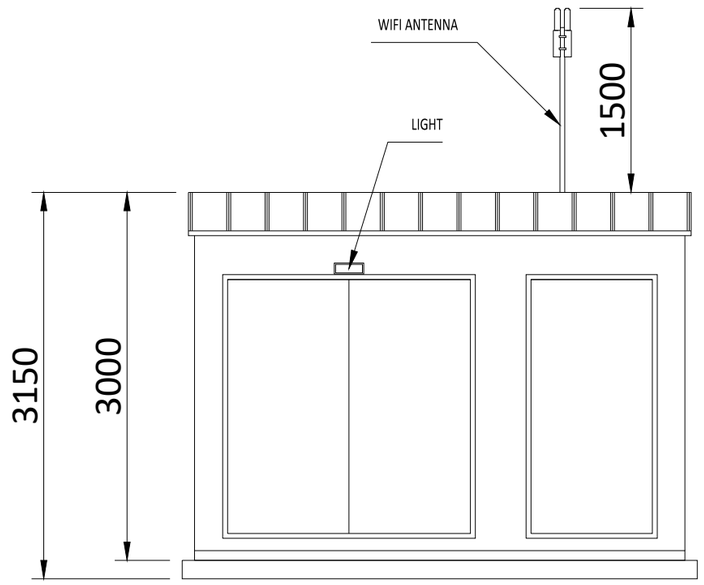
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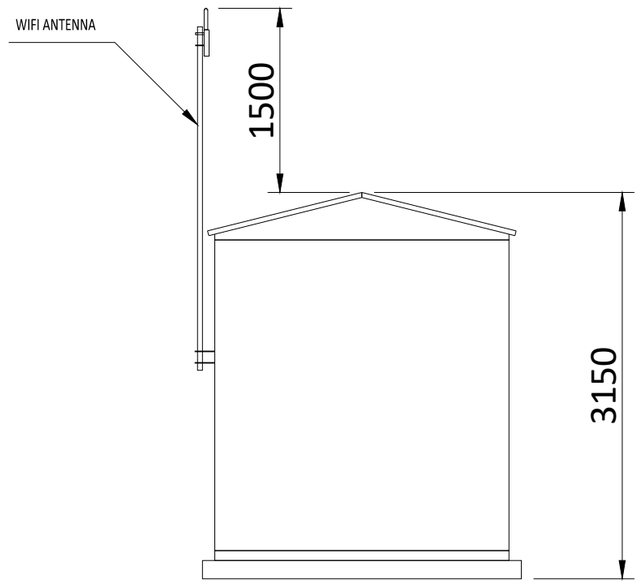
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Figure 2.7
Switchgear Substations (Drawing Number: GBR_EPD_SWG)

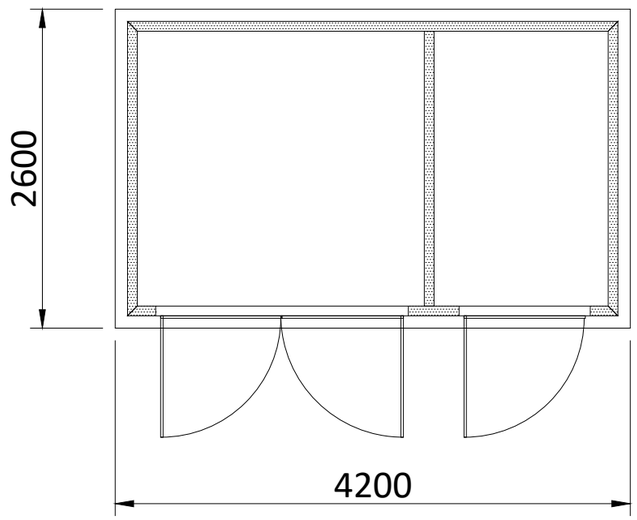
GBR_EPD_Switchgear/Production Substation/LV&MV Kiosk_01



Front View



Side View



Plan View

A3 - (420 x 297)mm

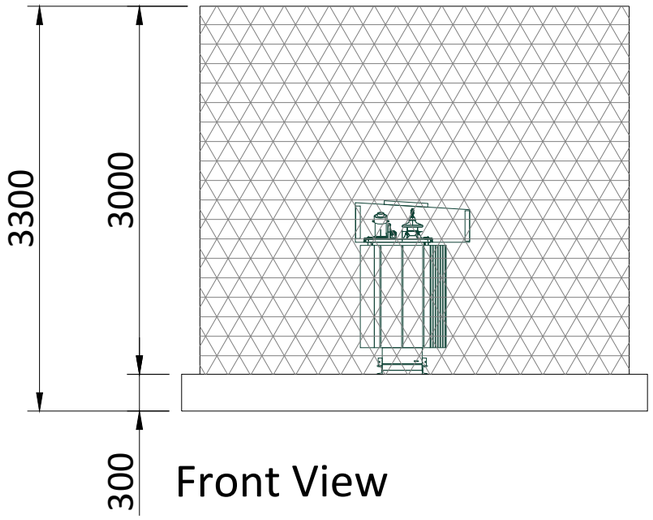
METERS
0 1 2 3 4 5

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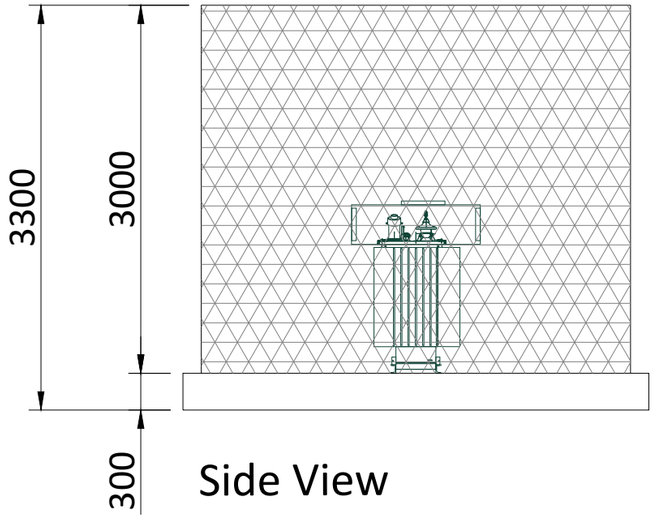
GBR_EPD_Switchgear/Production Substation/LV&MV Kiosk_01			
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DRAWING NUMBER: GBR_EPD_SWG	STATUS: Rev 01		

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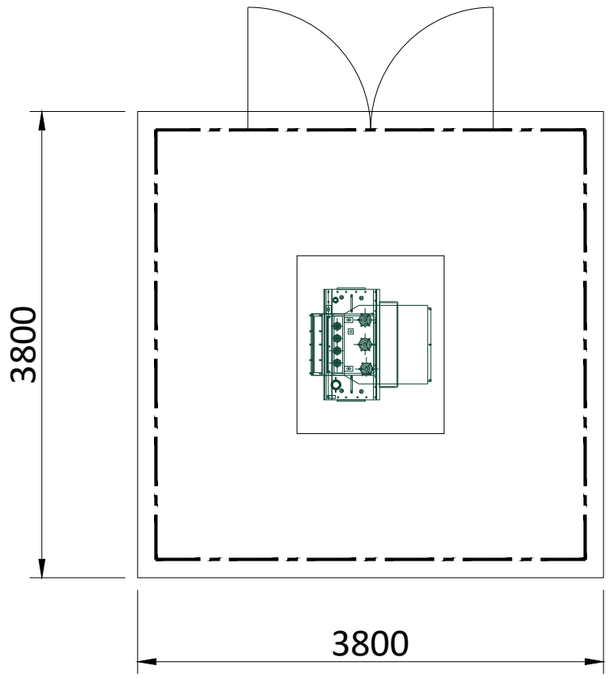
Figure 2.8
Auxiliary Transformer (Drawing Number: GBR_EPD_AUX)



Front View



Side View



Plan View



A3 - (420 x 297)mm

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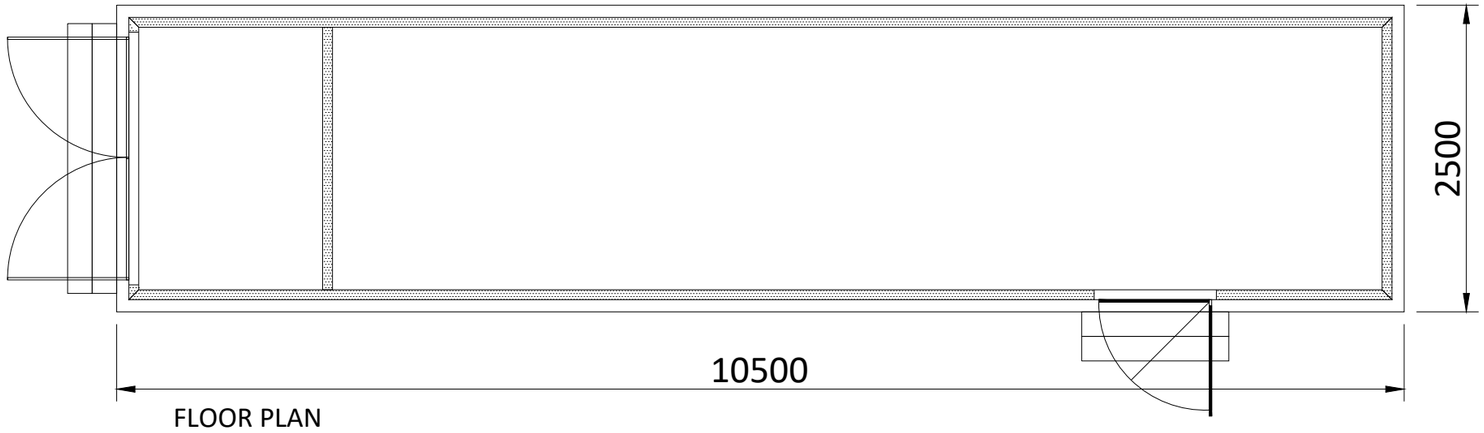
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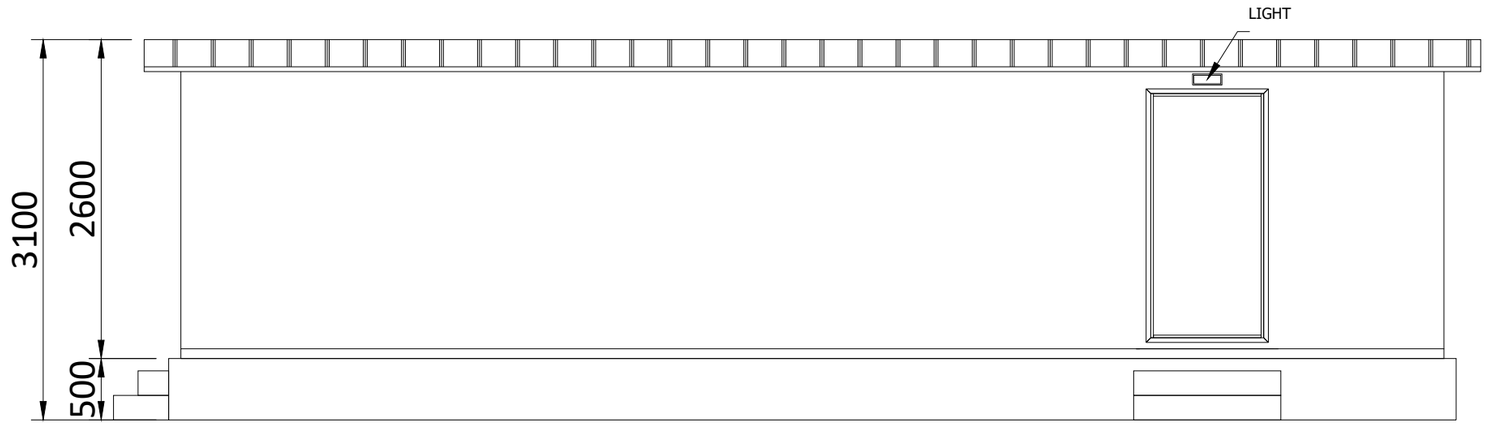
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Figure 2.9
PV Intake Substation (Drawing Number: GBR_EPD_PVI)

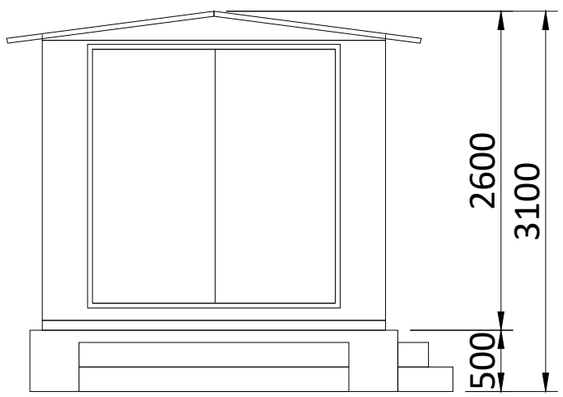
GBR_EPD_PV Intake Substation_00



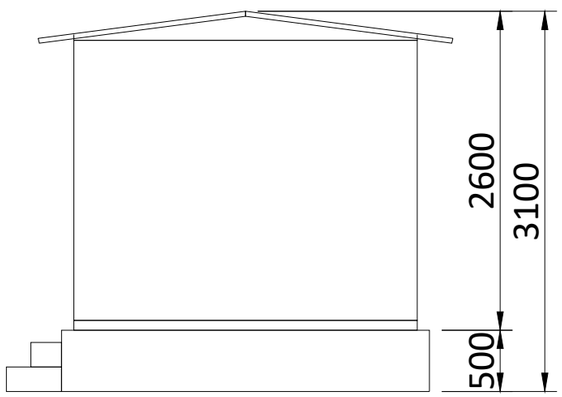
FLOOR PLAN



FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

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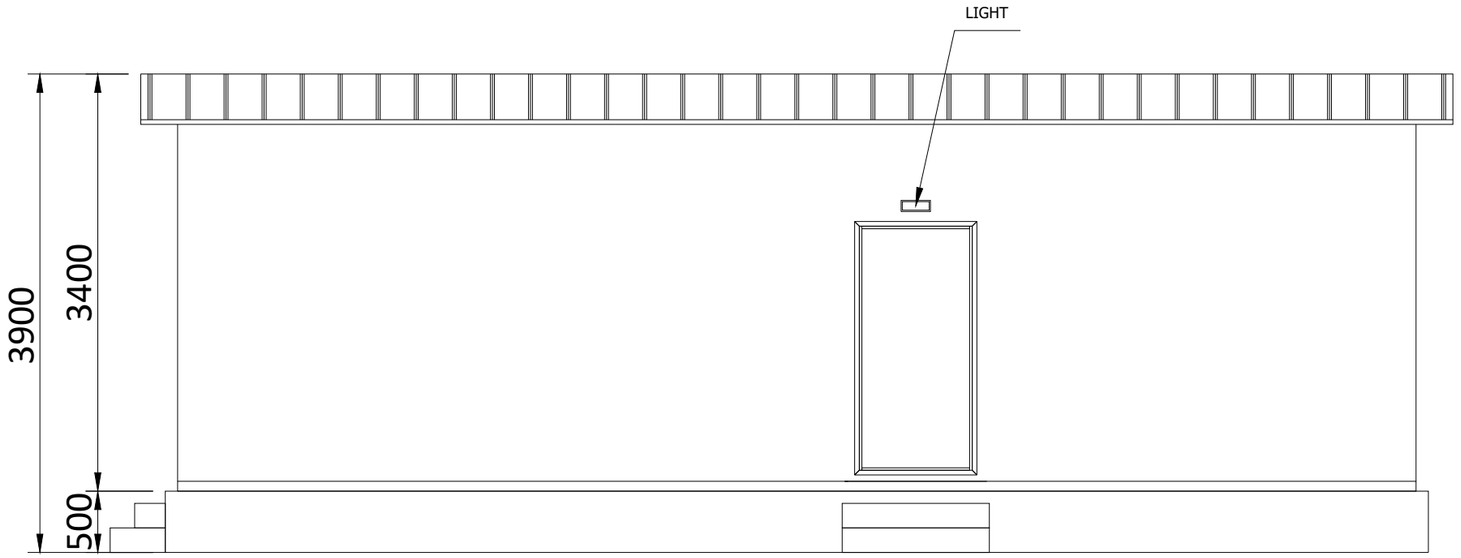
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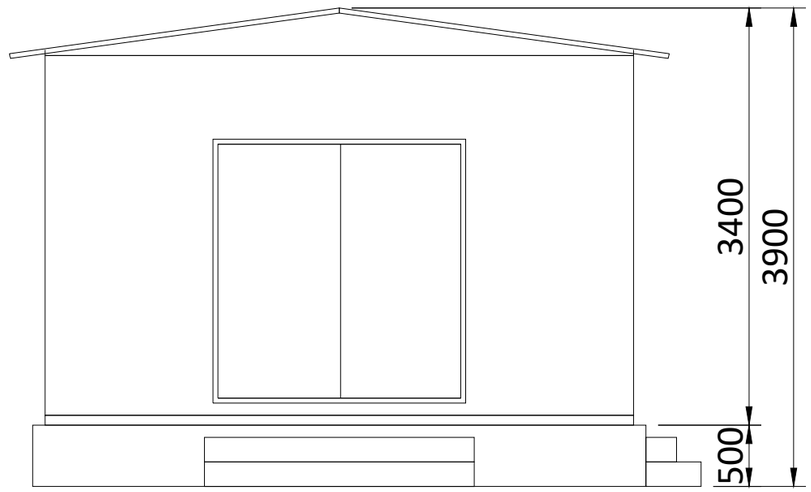
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Figure 2.10
Customer Substation (Drawing Number: GBR_EPD_CSS)

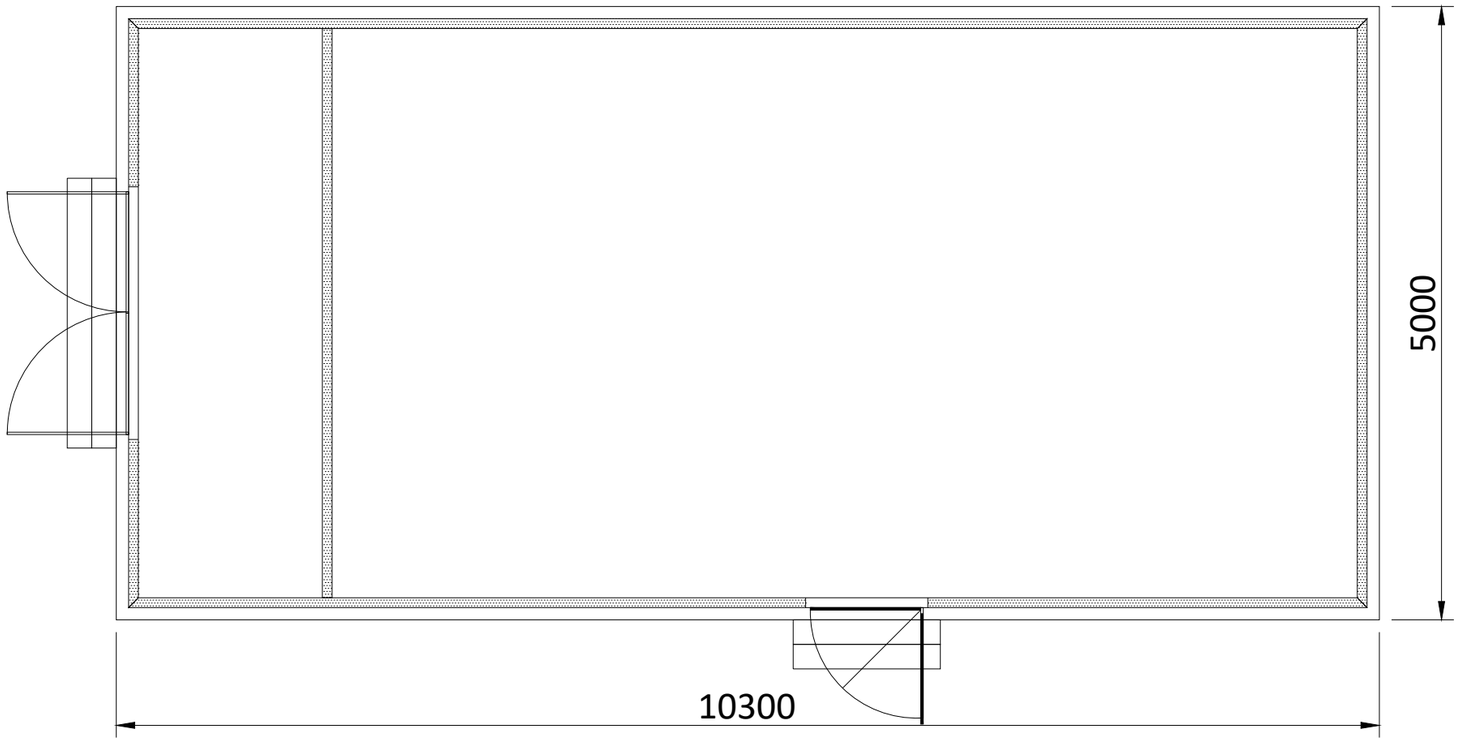
GBR_EPD_Customer Substation_00



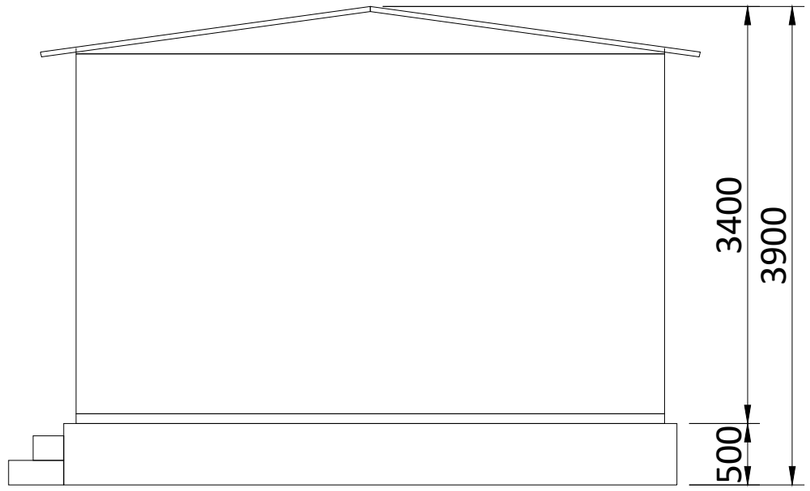
FRONT ELEVATION



SIDE ELEVATION



FLOOR PLAN



SIDE ELEVATION

METERS

0 1 2 3 4 5

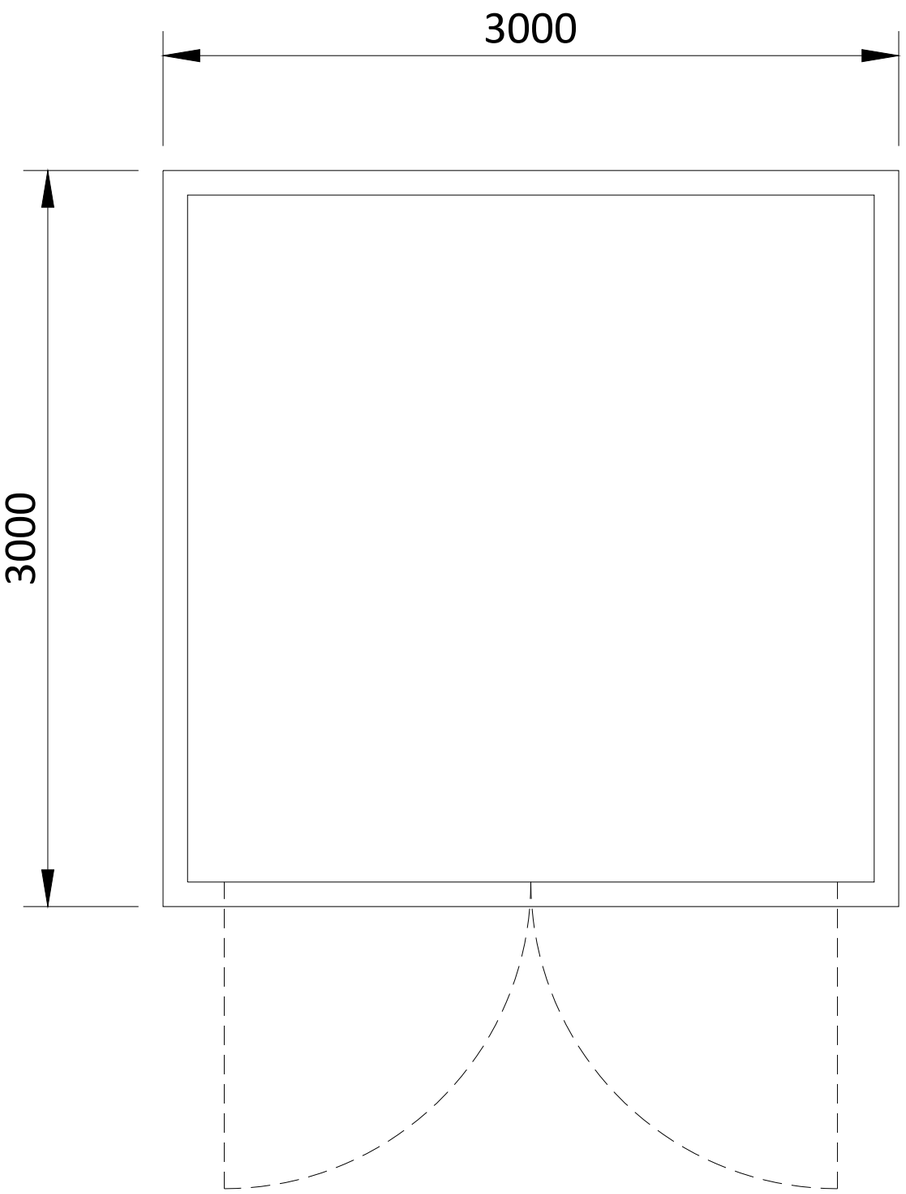
A3 - (420 x 297)mm

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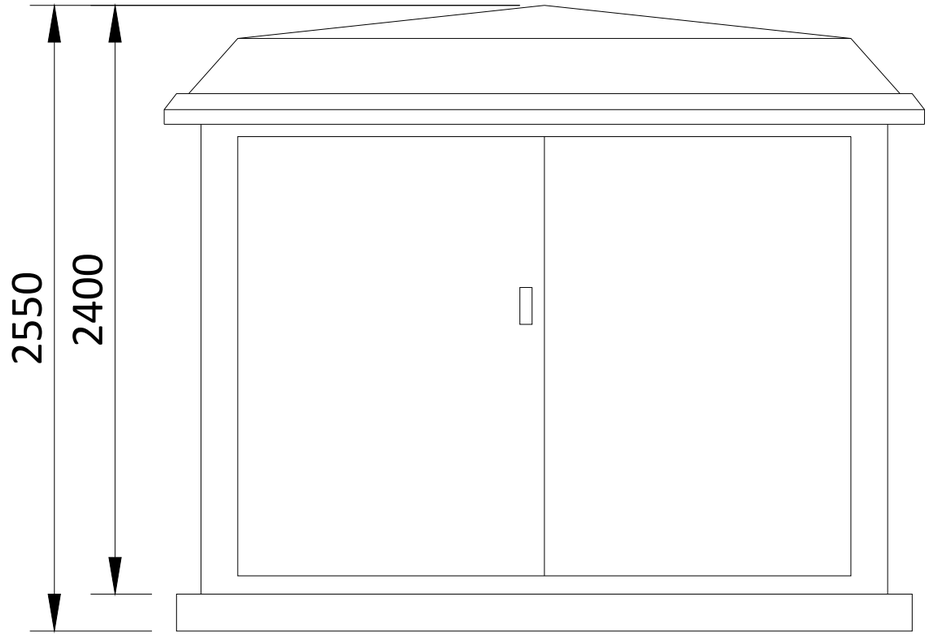
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Figure 2.11
GRP Substation (Drawing Number: GBR_EPD_GRP)



FLOOR PLAN



FRONT ELEVATION

SIDE ELEVATION

METERS

0 1 2 3 4 5

A3 - (420 x 297)mm

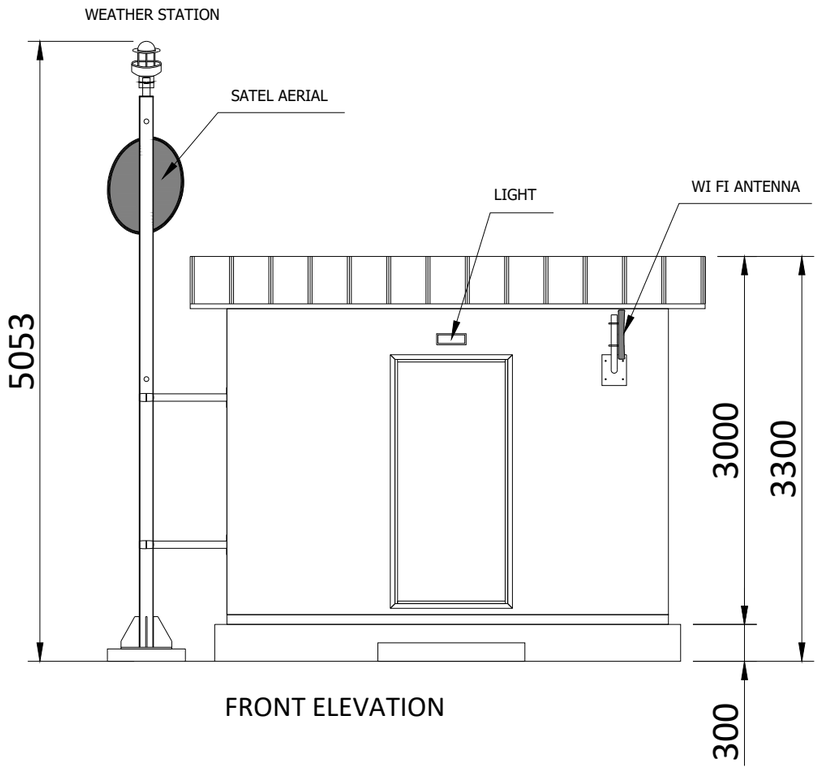
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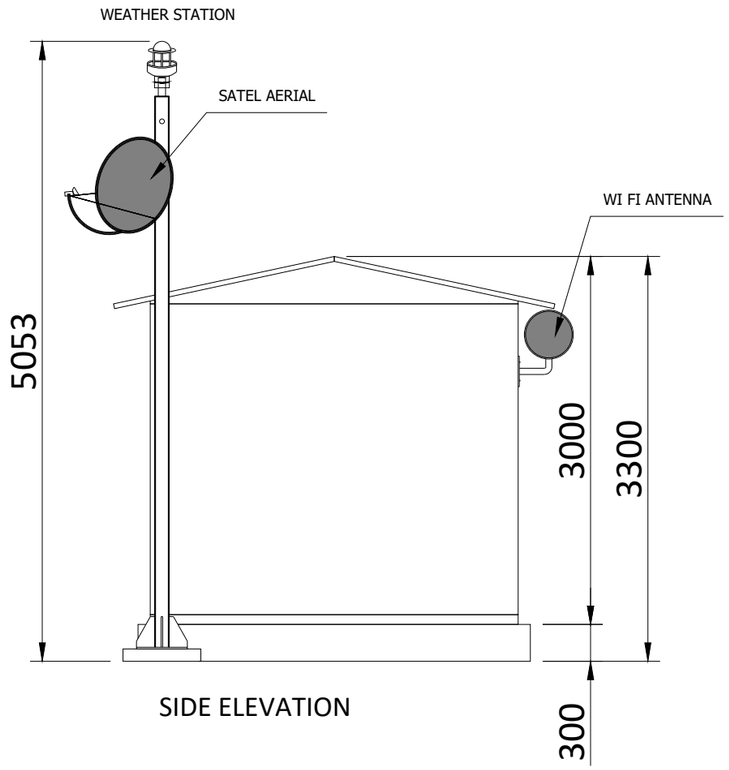
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Figure 2.12
Monitoring House (Drawing Number: GBR_EPD_MH/CB)

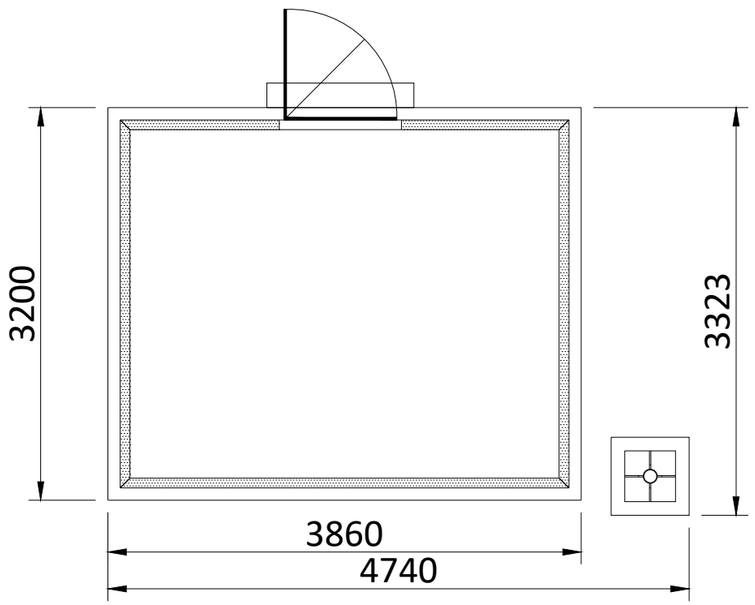
GBR_EPD_Monitoring House/Communication Building_01



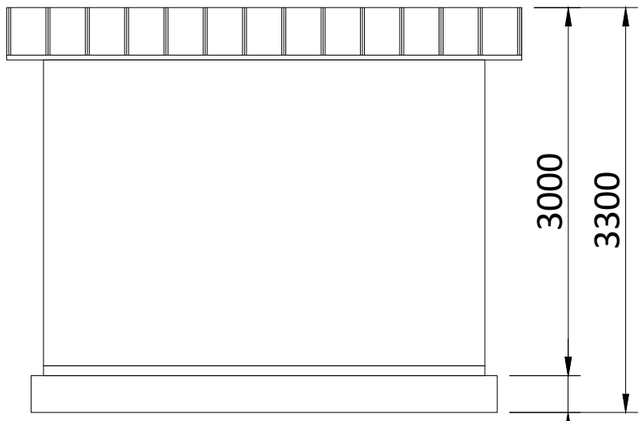
FRONT ELEVATION



SIDE ELEVATION



FLOOR PLAN



BACK ELEVATION

A3 - (420 x 297)mm

METERS
0 1 2 3 4 5

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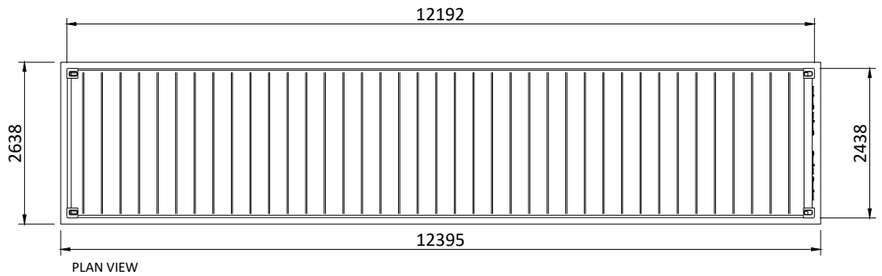
GBR_EPD_Monitoring House/Communication Building_01			
DA			Nov. 2023
DRAWN	CHECKED	APPROVED	DATE
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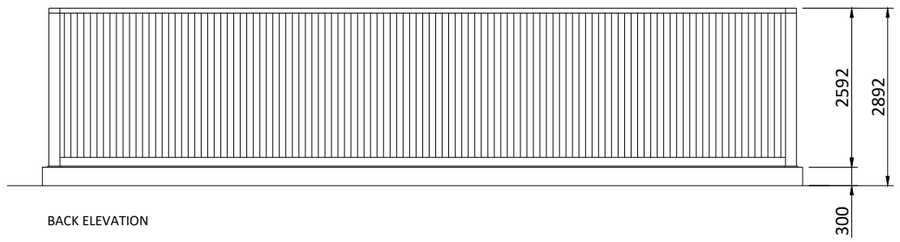
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Figure 2.13
Spares Container 40ft BESS Twin Battery Blocks (Drawing Number: GBR_EPD_S40)

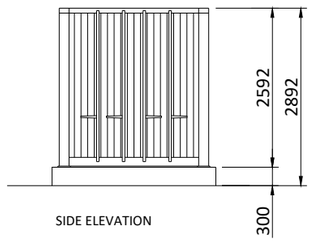
GBR_EPD_Spares 40' Container_00



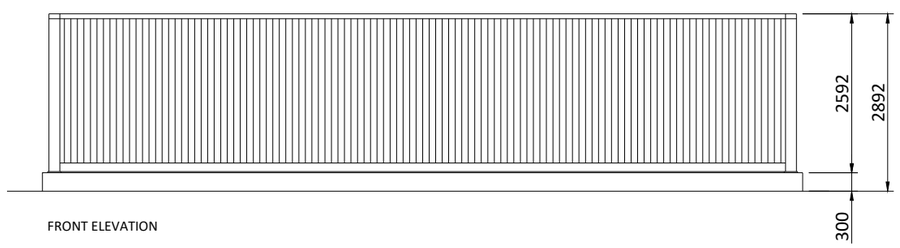
PLAN VIEW



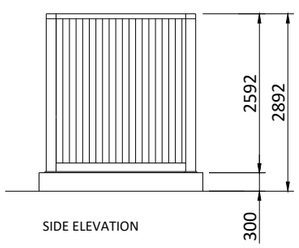
BACK ELEVATION



SIDE ELEVATION



FRONT ELEVATION



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

0 5 10 15

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GBR_EPD_Spares 40' Container_01

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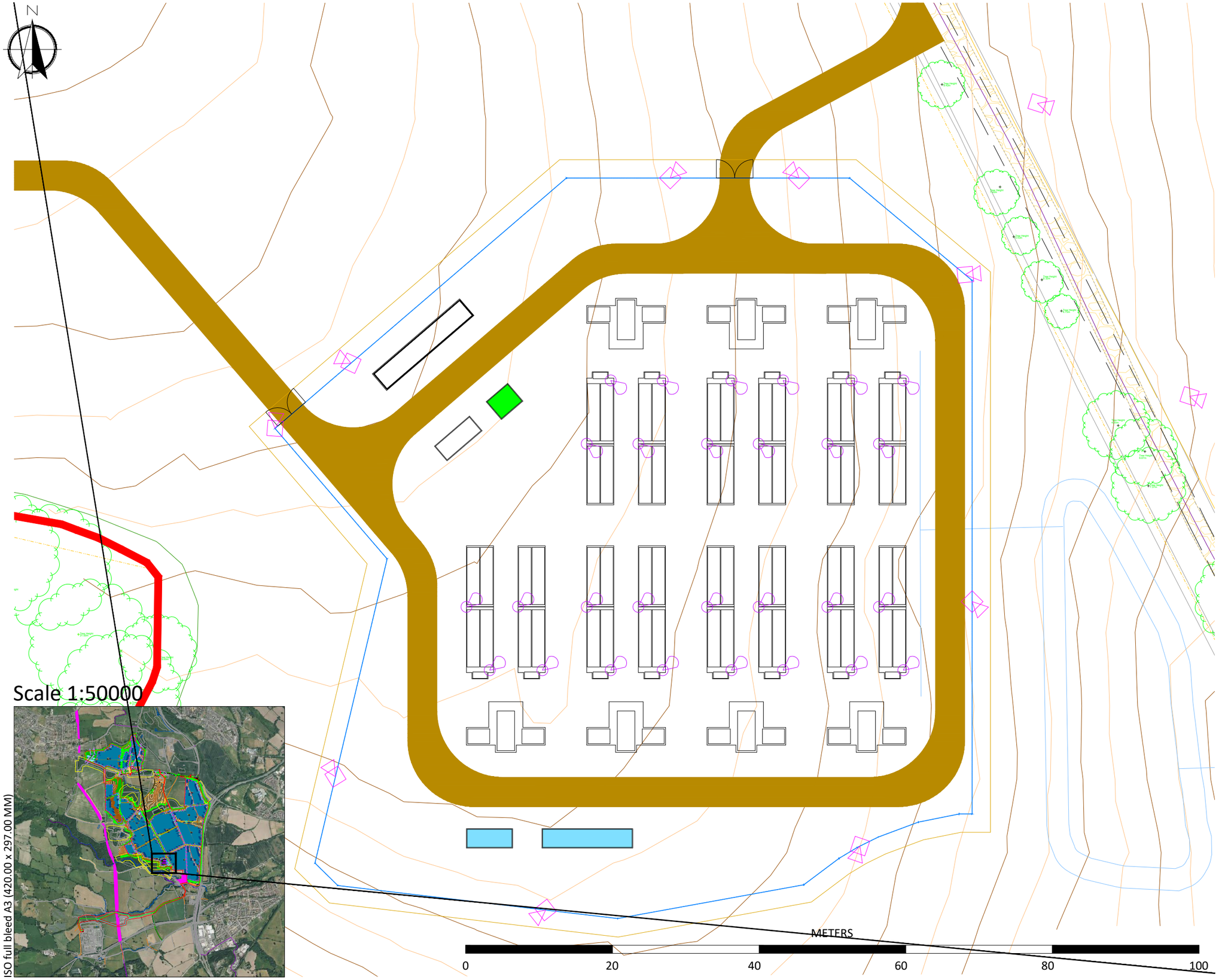
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Figure 2.14
Indicative BESS Layout (Drawing Number: BESS_LYT)

GBR_Plas Power Solar & Battery Project_Indicative BESS Layout_03



Scale 1:50000

ISO full bleed A3 (420.00 x 297.00 MM)

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DRAWN	CHECKED	APPROVED	DATE
DA			22.05.2024

PROJECT NAME & ADDRESS:
Location: Plas Power Estate, Rhosrobin
Postcode: Caego, Wrexham, Wales

NOTES:
-
-
-
-

Paper Size:	Scale:	Sheet:
A3	1:500	1

CAPACITY:

DRAWING TITLE:
GBR_Plas Power Solar & Battery Project_Indicative BESS Layout_03

DRAWING NUMBER:	STATUS:
BESS_LYT	

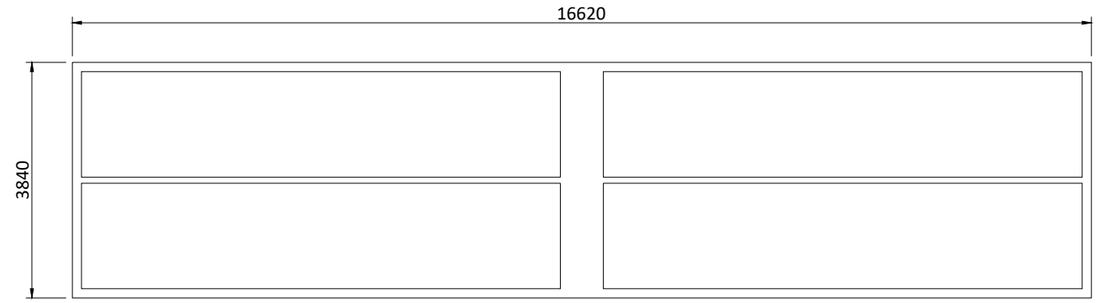
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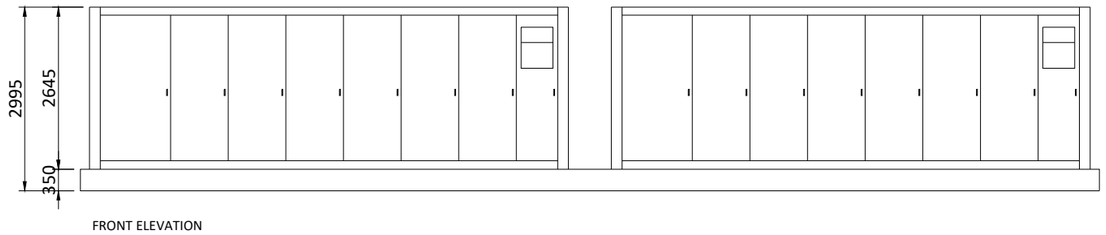
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Figure 2.15
BESS Enclosures (Drawing Number: K_EPD_BSS)

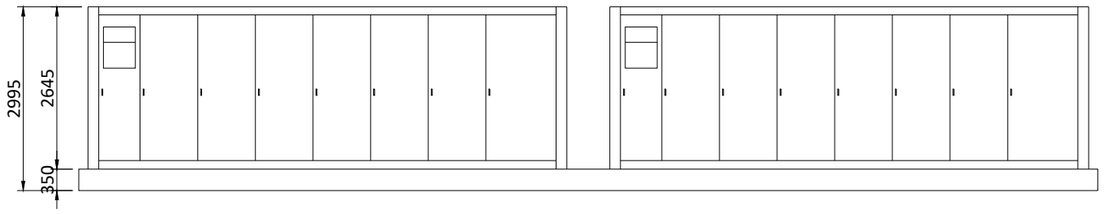
GBR_EPD_BESS Enclosures_00



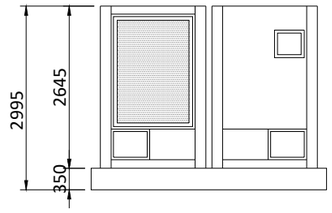
PLAN VIEW



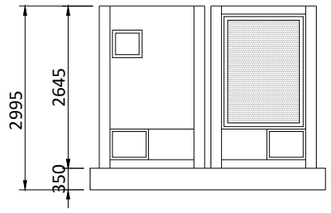
FRONT ELEVATION



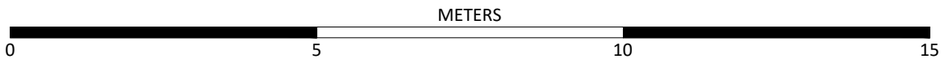
BACK ELEVATION



SIDE ELEVATION



SIDE ELEVATION



A3 - (420 x 297)mm

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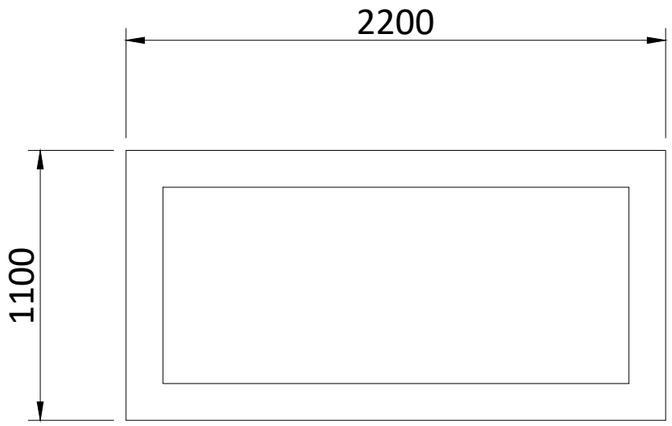
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DA			Nov. 2023
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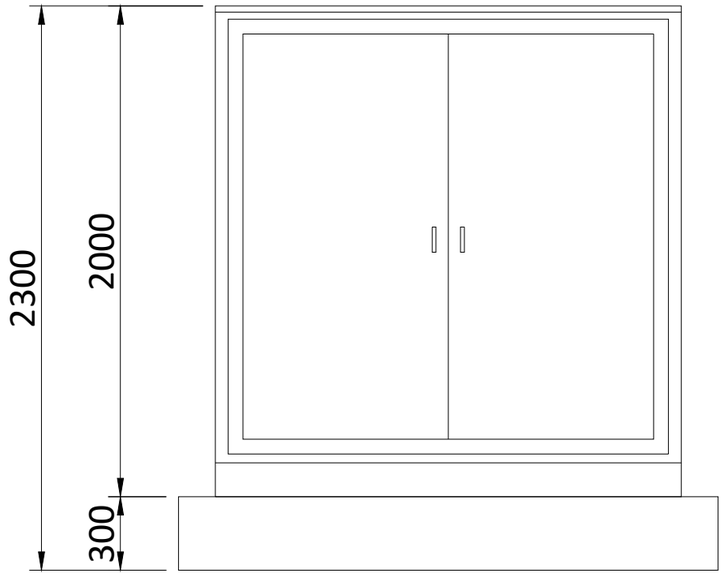
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Figure 2.16
BIC (Drawing Number: GBR_EPD_BIC)

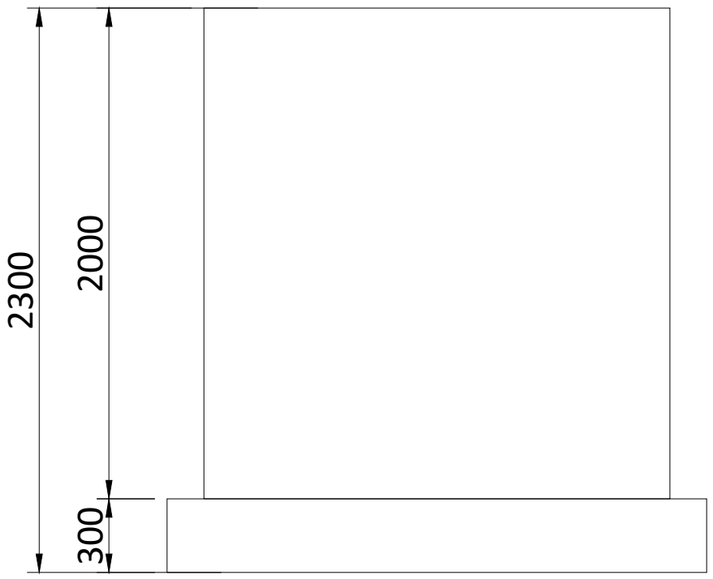
GBR_EPD_BIC_00



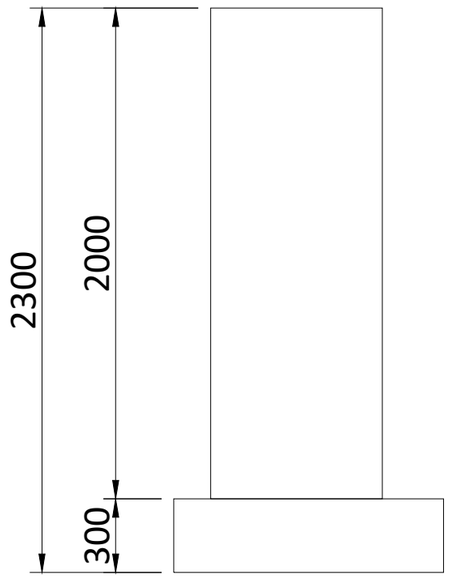
FLOOR PLAN



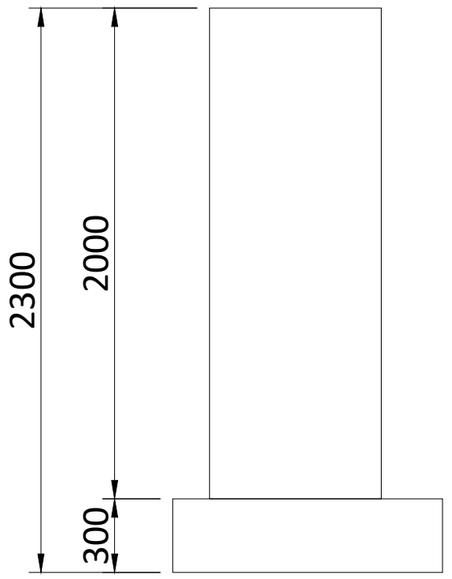
FRONT ELEVATION



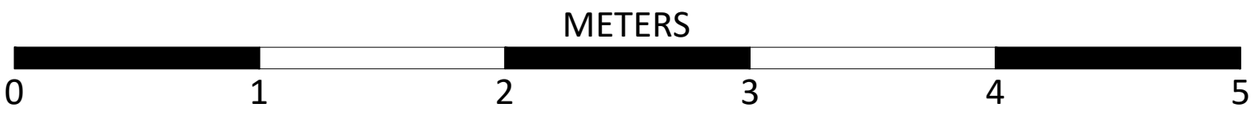
BACK ELEVATION



LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



A3 - (420 x 297)mm

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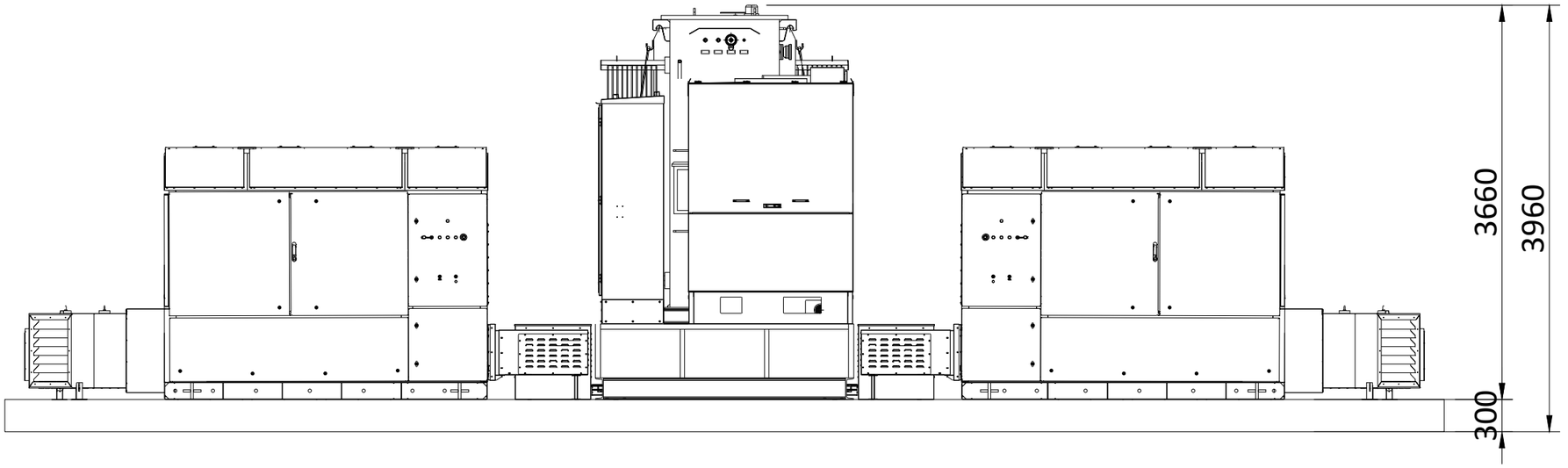
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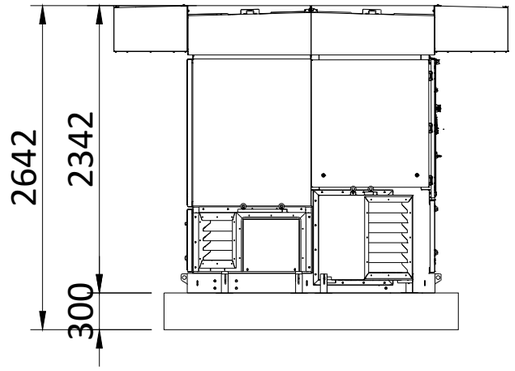
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Figure 2.17
Twin MV Skid (Drawing Number: UK_EPD_TWS-NR)

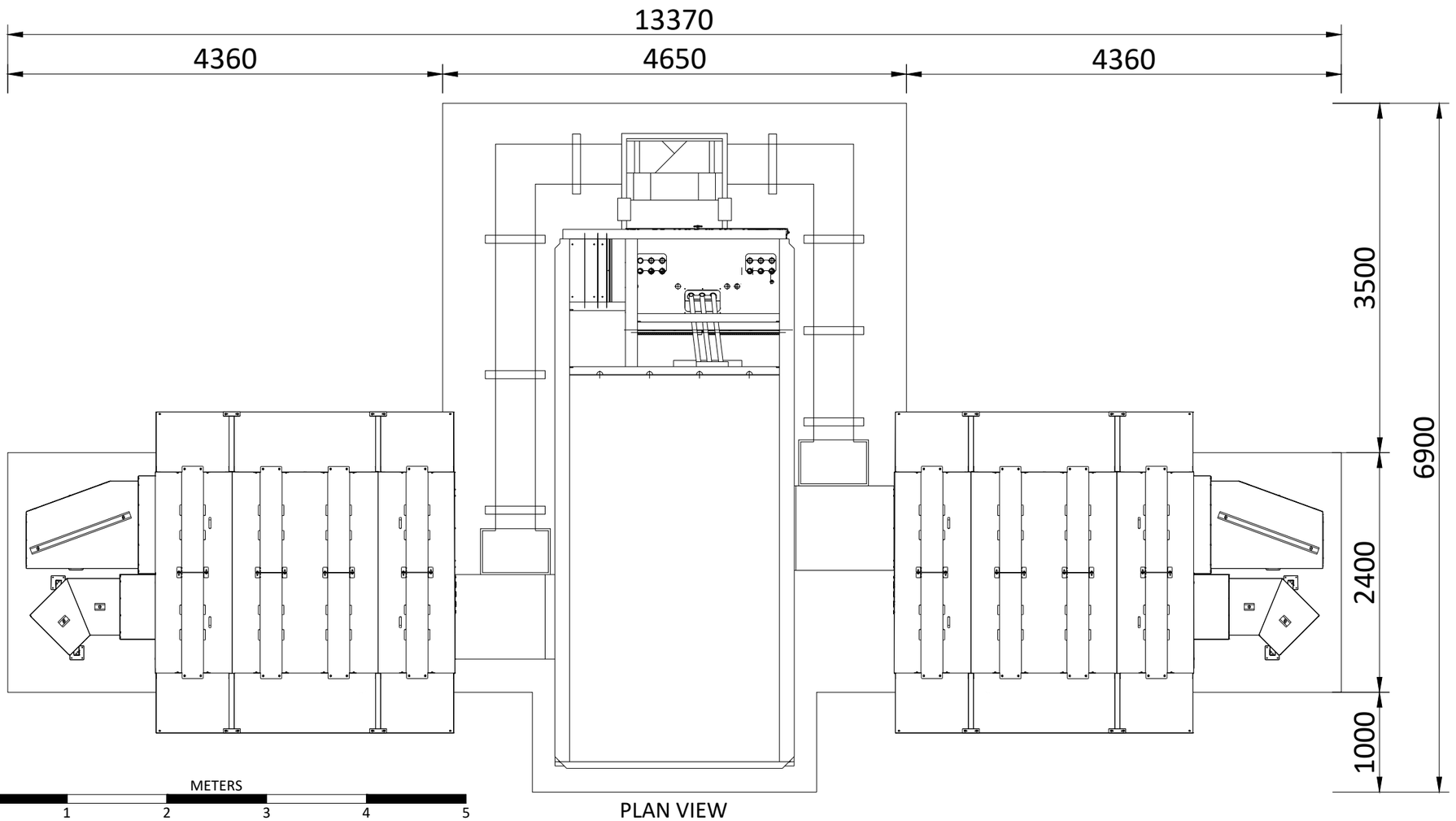
GBR_EPD_Twin MV Skid-NR_00



FRONT ELEVATION



SIDE ELEVATION



PLAN VIEW

A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

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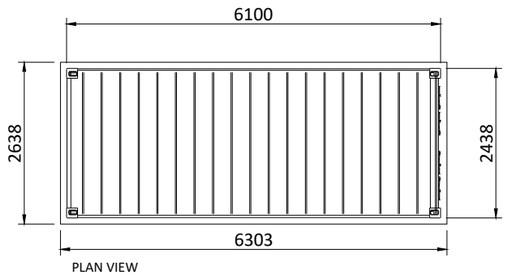
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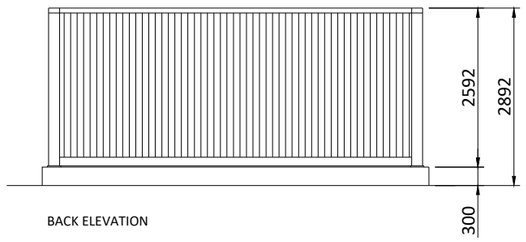
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Figure 2.18
BESS Backup Generator (Drawing Number: GBR_EPD_G20)

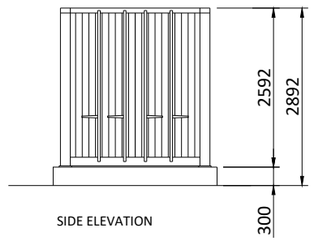
GBR_EPD_Backup Generator 20_00



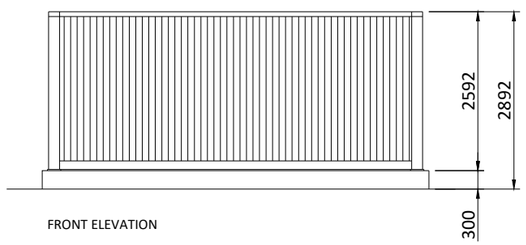
PLAN VIEW



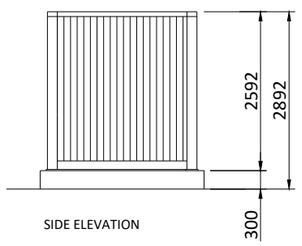
BACK ELEVATION



SIDE ELEVATION



FRONT ELEVATION



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

0 5 10 15

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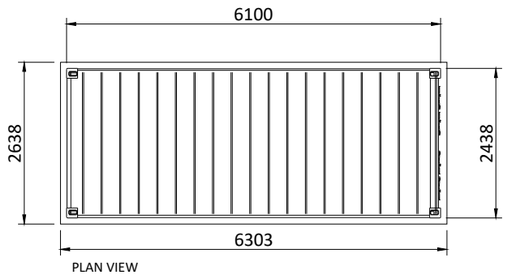
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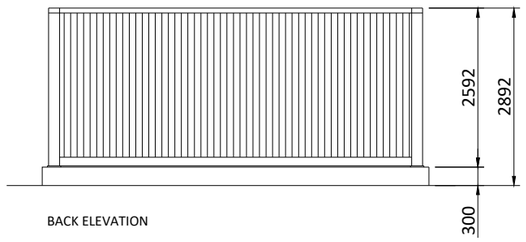
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Figure 2.19
BESS Spares Container 20ft (Drawing Number: GBR_EPD_S20)

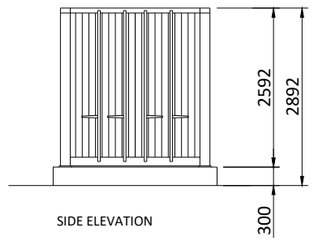
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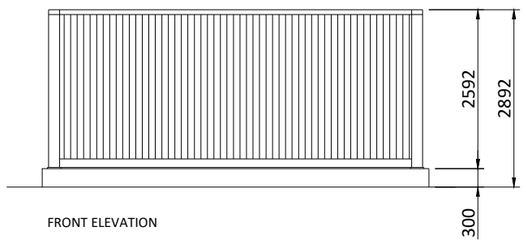
PLAN VIEW



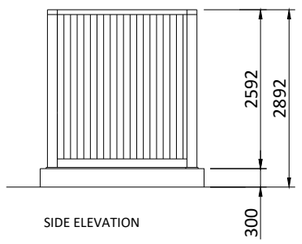
BACK ELEVATION



SIDE ELEVATION



FRONT ELEVATION



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

0 5 10 15

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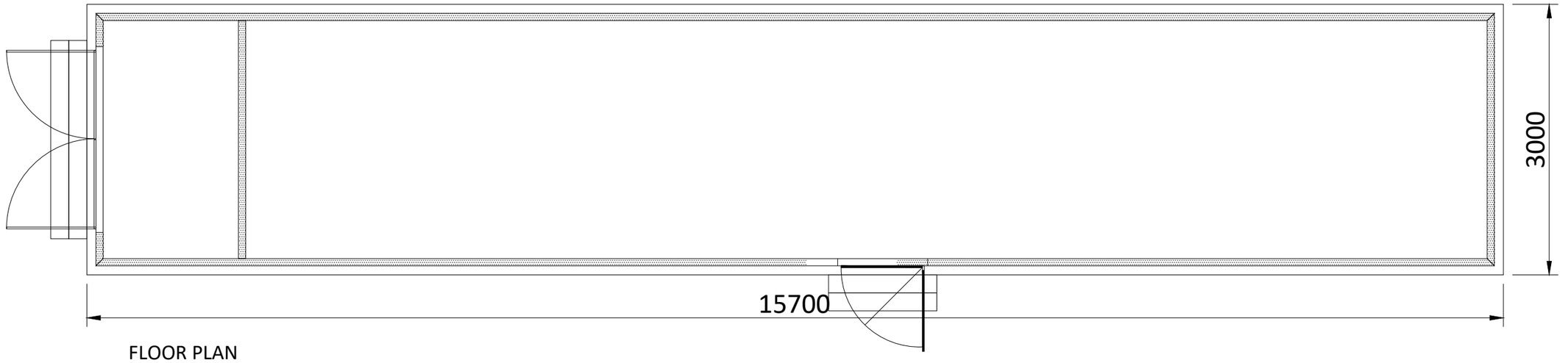
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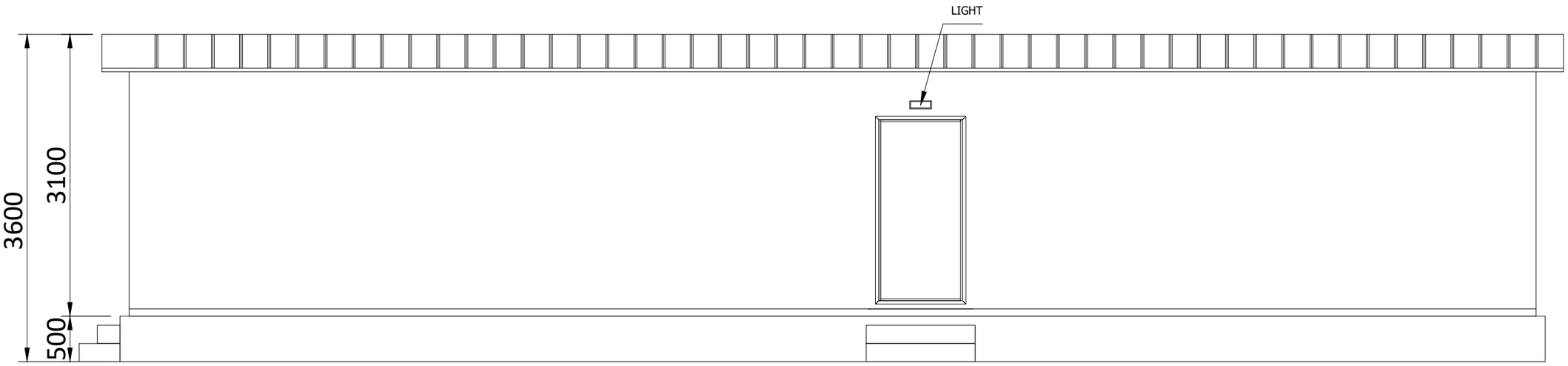
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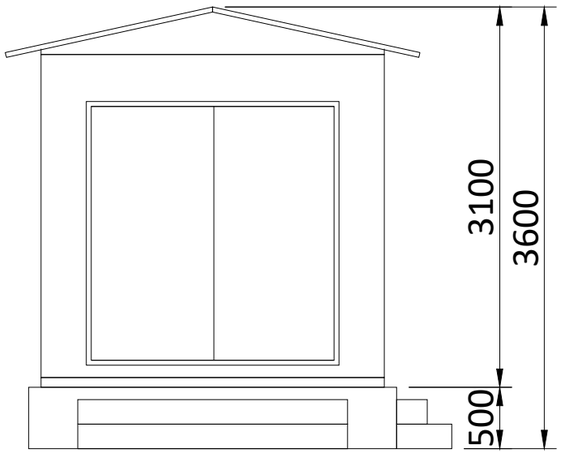
Figure 2.20
BESS Intake Substation (Drawing Number: GBR_EPD_BIS)



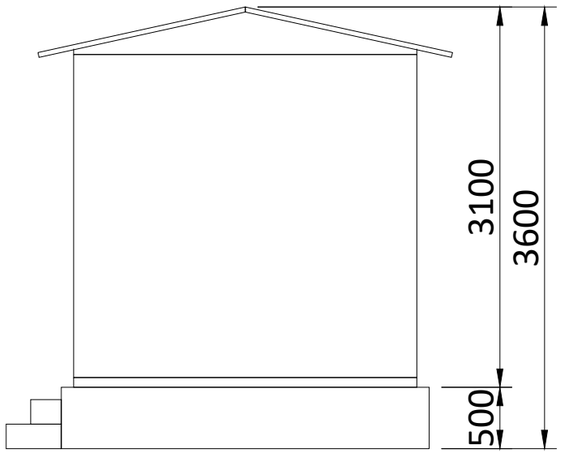
FLOOR PLAN



FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

GBR_EPD_BESS Intake Substation_00			
DA			Nov. 2023
DRAWN	CHECKED	APPROVED	DATE
Paper Size: A3	Scale: 1:50	Sheet: 1	
DRAWING NUMBER: GBR_EPD_BIS	STATUS: Rev 01		

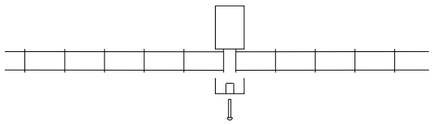
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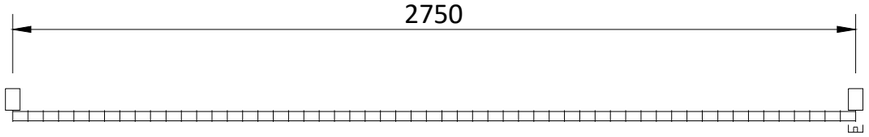
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Figure 2.21
BESS Security Fencing (Drawing Number: GBR_EPD_BSF)

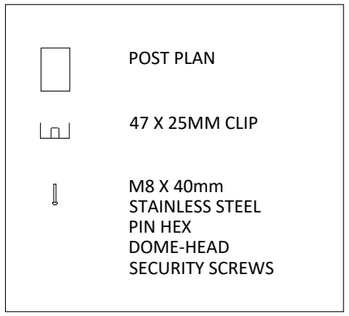
GBR_EPD_BESS Security Fence_02

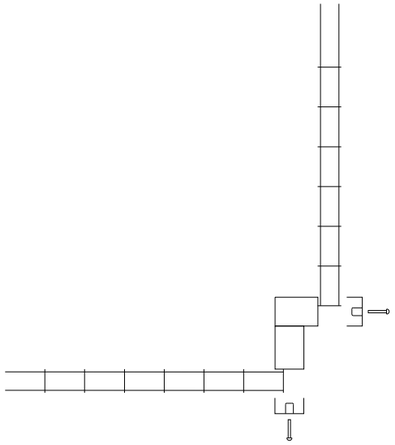


IN-LINE PLAN
(1:10)

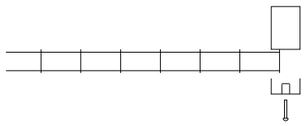


2.75m POST CENTRES

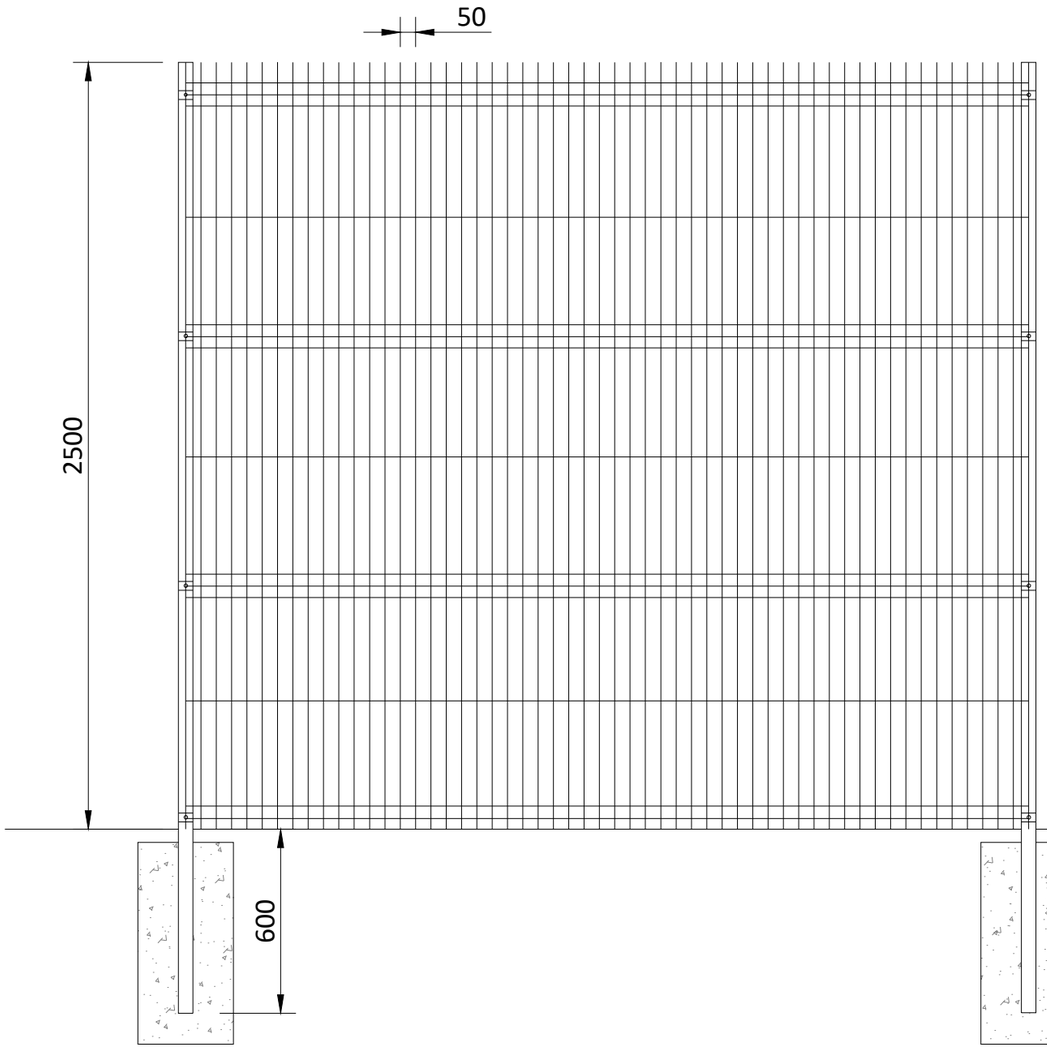




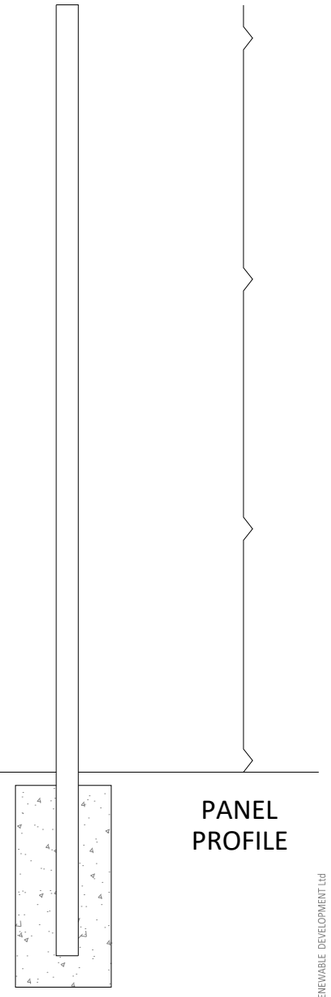
CORNER PLAN
(1:10)



END PLAN
(1:10)



SECURITY FENCING ELEVATIONS



POST PROFILE

PANEL
PROFILE

A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

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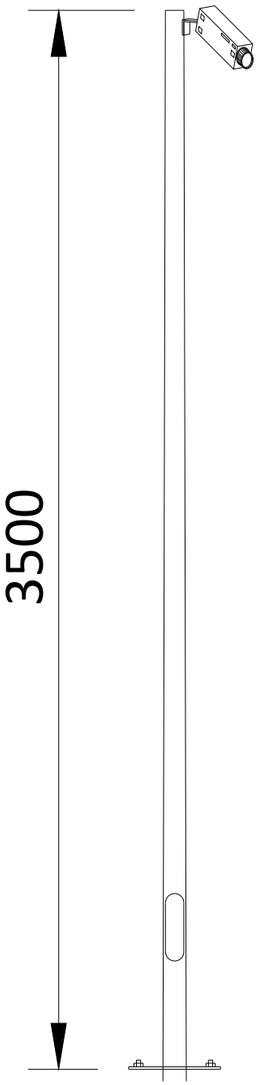
GBR_EPD_BESS Security Fence_02			
DA			Nov. 2023
DRAWN	CHECKED	APPROVED	DATE
Paper Size: A3	Scale: 1:20	Sheet: 1	
DRAWING NUMBER: GBR_EPD_BSF		STATUS: Rev 01	

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Figure 2.22
BESS CCTV (Drawing Number: GBR_EPD_BCC)

GBR_EPD_BESS CCTV_00



A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

GBR_EPD_BESS CCTV_00			
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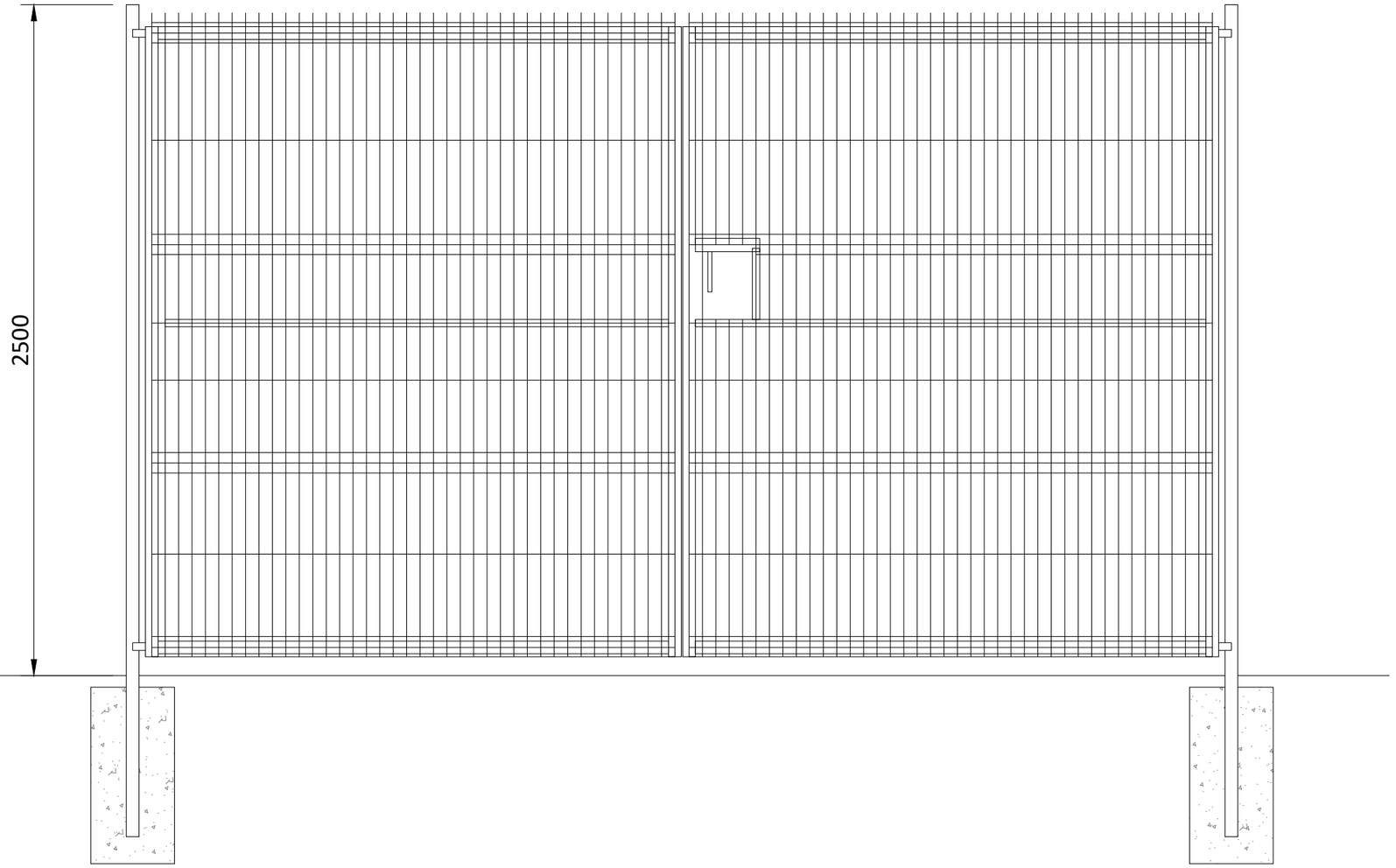
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Figure 2.23
BESS Gate (Drawing Number: GBR_EPD_BSG)

UK_EPD_BESS Gate_02



SECURITY GATE ELEVATION

METERS

0 1 2 3 4 5

A3 - (420 x 297)mm

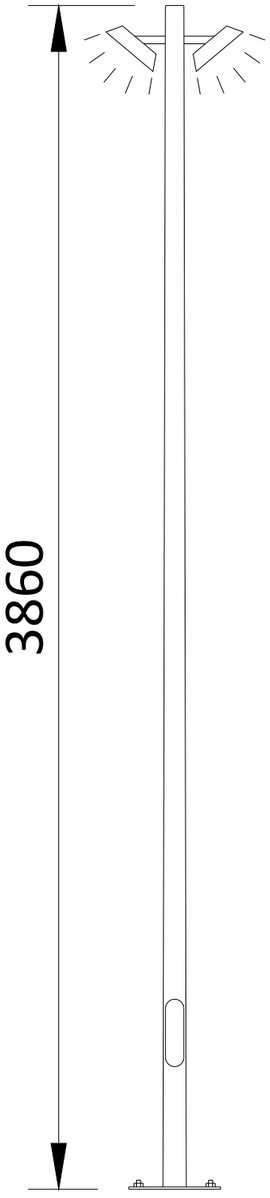
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Figure 2.24
BESS Lighting Pole (Drawing Number: GBR_EPD_BLG)



A3 - (420 x 297)mm

METERS

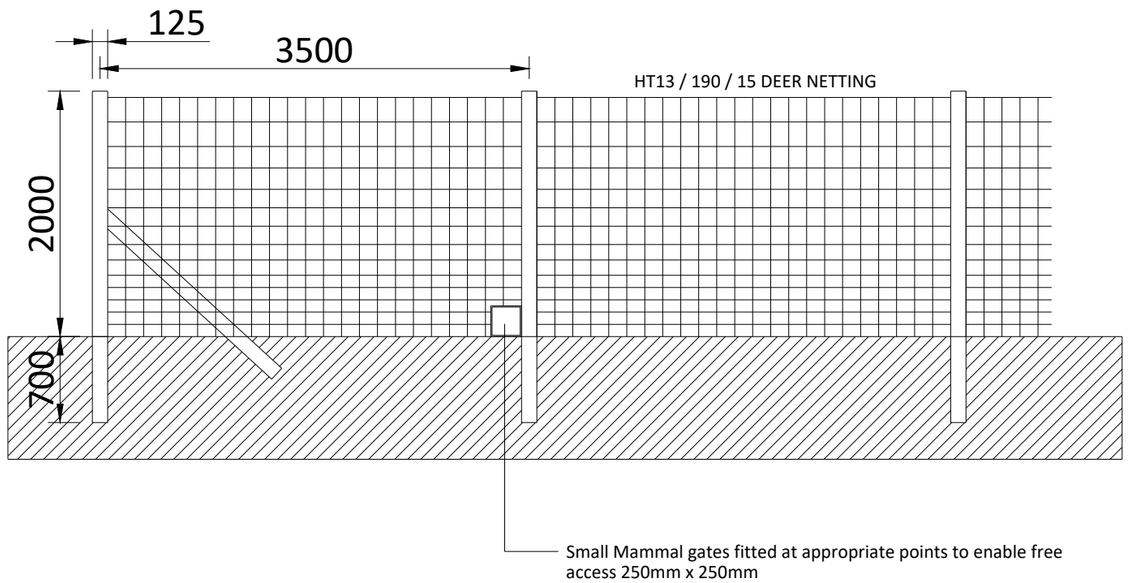
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GBR_EPD_BESS Lightning_00			
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DRAWING NUMBER: GBR_EPD_BLG	STATUS: Rev 01		

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Figure 2.25
Security Fencing (Drawing Number GBR_EPD_FNC)



NOTES:
Deer Fence Mesh dimensions are 150mm x 150mm

A3 - (420 x 297)mm

METERS
0 1 2 3 4 5

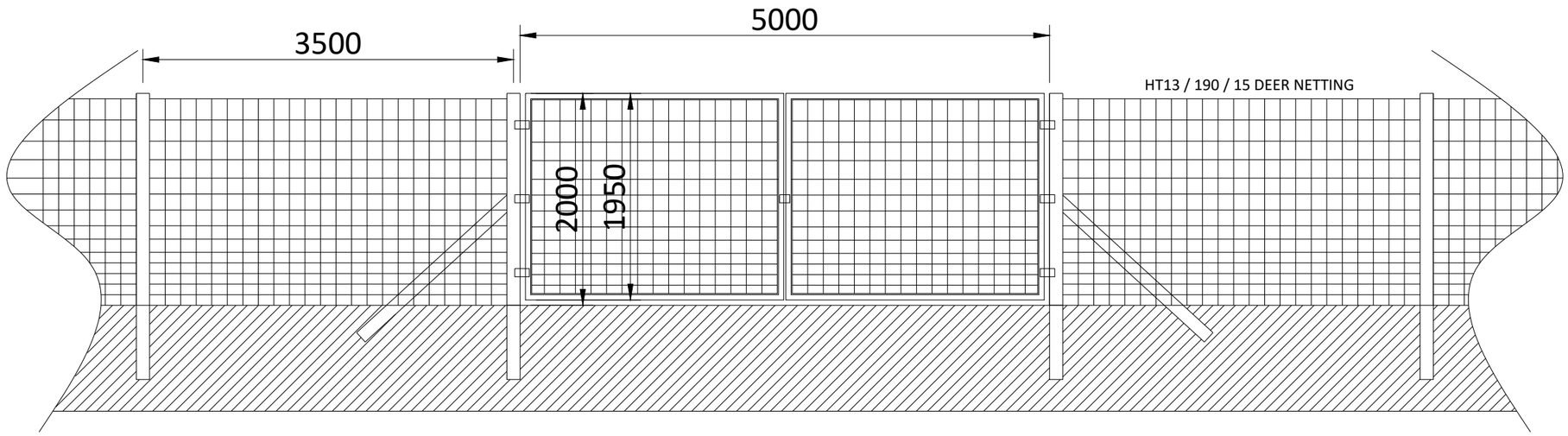
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GBR_EPD_Security Fence_01			
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Figure 2.26
Gates (Drawing Number: GBR_EPD_GTD)

GBR_EPD_Gate_01



METERS

0 1 2 3 4 5

A3 - (420 x 297)mm

GBR_EPD_Gate_01			
DA			Nov. 2023
DRAWN	CHECKED	APPROVED	DATE
Paper Size: A3	Scale: 1:50	Sheet: 1	
DRAWING NUMBER: GBR_EPD_GTD	STATUS: Rev 01		

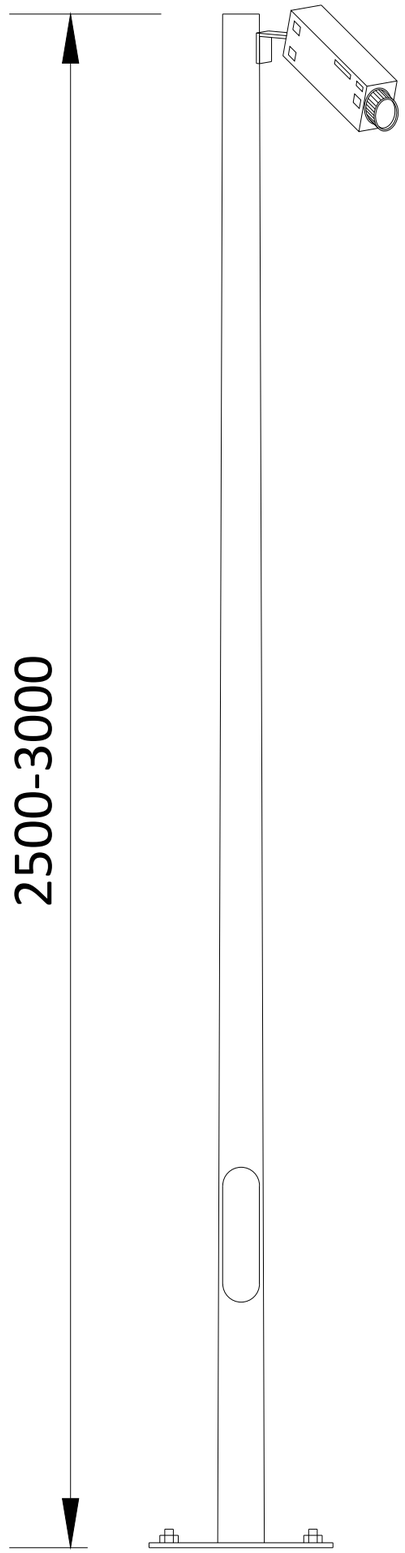
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Figure 2.27
Solar CCTV (Drawing Number: GBR_EPD_CTV)

GBR_EPD_PV CCTV_01



METERS

0 1 2 3

A3 - (420 x 297)mm

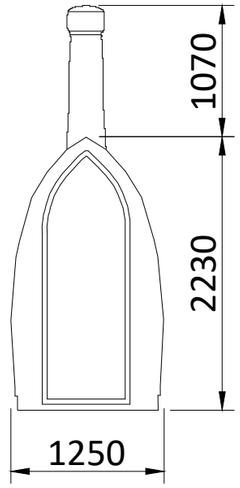
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DRAWING NUMBER: GBR_EPD_CTV	STATUS: Rev 01		

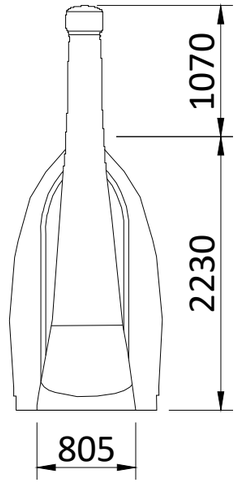
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Figure 2.28
Composting Toilet (Drawing Number: GBR_EPD_TLT)

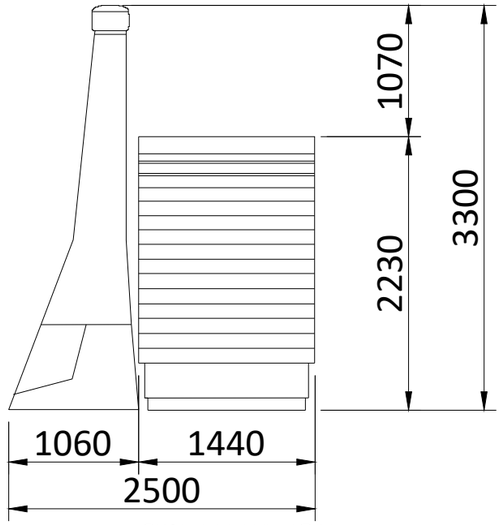
GBR_EPD_Toilet_01



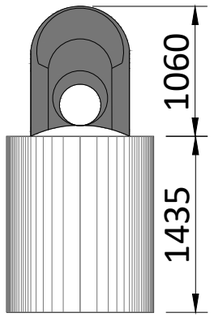
FRONT ELEVATION



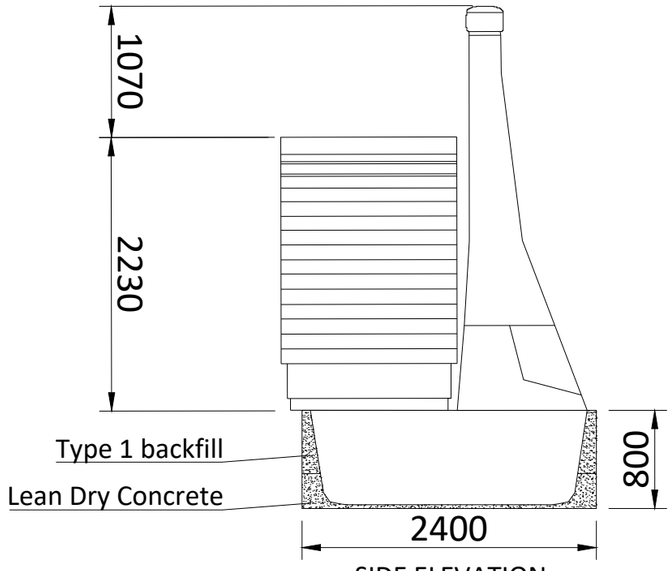
BACK ELEVATION



SIDE ELEVATION



FLOOR PLAN



SIDE ELEVATION

A3 - (420 x 297)mm

METERS

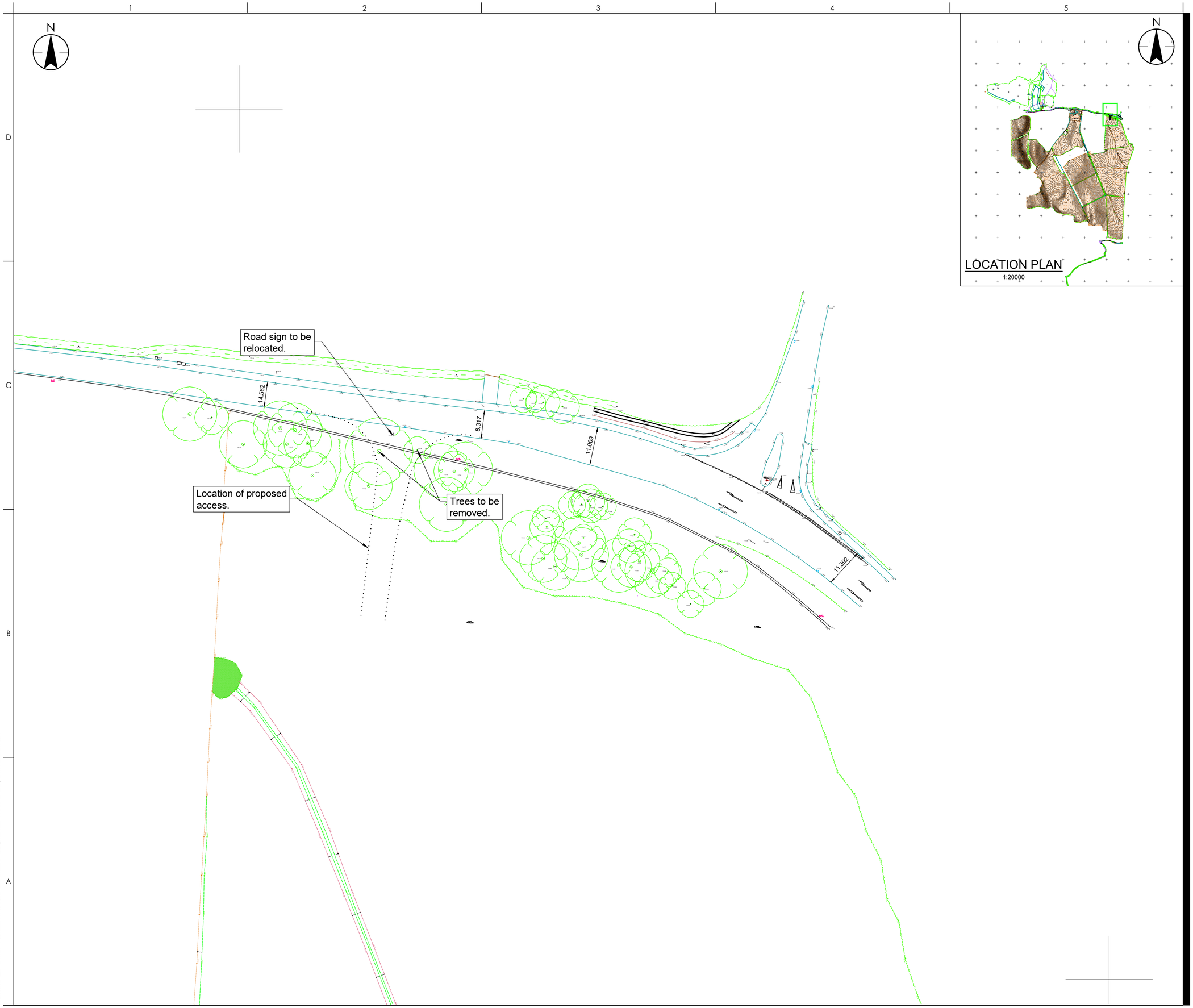
0 1 2 3 4 5

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DRAWING NUMBER: GBR_EPD_TLT	STATUS: Rev 01		

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Figure 2.29
Existing Southern Site Access (Drawing Number: Drawing Ref: 330610724-SK-1200-004)



Stantec

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LONDON
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LEGEND

UTILITY LINETYPES

British Telecom
Cable Television
Closed Circuit Television
Communications
Drainage
Drainage - Combined Water
Drainage - Foul Water
Drainage - Storm Water
Empty Duct
Electric
Fire Hydrant Main
Fibre Optic
Fuel
Gas
Heating Pipes
HV Cables
Multiple Services Route
Oil
Oxygen
Street Lighting
Traffic Signal Loop
Unknown found by GPR
Unknown
Unknown Cable
Unknown Pipeline
Water

Assumed Service Route - See GENERAL NOTES (Using abbreviation of service and colour as above)

UTILITY SURVEY INFORMATION

Area of Concern
Contracted Survey Area (SVY AREA)
Previous Survey Area (PREVIOUS)
Extent of (Post processed) GPR (GPR Survey)
Depth to Top of Service (metres) (0.60d)
Unable to Survey UTS
Unable to Lift (cover) UTL
Unable to Trace
Unable to Trace (due to blockage)
Unable to Trace Further
End of Trace

ABBREVIATIONS used on a PAS 128 Survey

(0.65d B2P) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

TOPOGRAPHIC & UTILITY DETAILS

Barrier (symbol - sized)
Bellalta Beacon (symbol) BS
Bollard (symbol) B
Borehole (symbol)
British Telecoms IC (sized) BTIC
Building (incomplete detail)
Cable into Ground (symbol)
Cable TV Box (symbol) CCTV
CCTV Camera (symbol)
Cover Level in metres CL 50.00
Direction of Flow (Drainage)
Distribution Board (symbol) DB
Earth Rod (symbol) ER
Electric Cabinet (sized) EC
Electric Pole (symbol) EP
Electric Sign (symbol) ES
Embankment
Feeder Pillar (sized) FP
Fire Hydrant (sized) FH
Flag Pole (symbol) FP
Flat Roof Level in metres FRL 50.00
Flood Light (symbol) FL
Gas Valve (symbol) GV
Gate
Ground Level in metres GL 50.00
Gulley (sized) GU
Inspection Cover (sized) IC
Invert Level in metres IL 50.00
Junction Box - BT (sized) JB BT
Junction Box - Comms (sized) JB COM
Junction Box - Elec (sized) JB
Lamp Post (symbol) LP
Light Bollard (symbol) LB
Light in ground (symbol) LIG
Manhole (sized) MH
Manhole Capped Port
Parapet Level in metres PL 50.00
Pipe Diameter in millimetres ⌀ 300
Pipe into Ground (symbol)
Post (symbol) PO
Rain Water Pipe (symbol) RWP
Road Sign (symbol) RS
Rodding Eye (symbol) RE
Sapling (symbol)
Sign Post (symbol) SP
Spot Light (symbol) SL
Spot Height 50.00 +
Stop Cock (symbol) SC
Stop Valve (symbol) SV
Survey Station (symbol)
Telephone Pole (symbol) TP
Traffic Bollard (symbol)
Tree (dimensions in metres - e.g.)
Diameter at 1mh. (bole) Dia. 0.3
Height: Ht. 7.5
Spread: Ht. 10.2
Species: Maple
Traffic Light (symbol) TL
Unknown Valve (symbol) UV
Vent Pipe (symbol) VP
Wall
Waste Pipe (symbol) WP
Water Meter (symbol) WM
Water Valve (symbol) WV
Building Canopy
Crash Barrier
Drainage Channel Drainage Channel
Drop Kerb (level in metres) 50.00
Edge Detail (level in metres) 50.00
Footpath (level in metres) 50.00
Fence
Heras Fence
Kerb channel (level in metres) 50.00
Kerb top (level in metres) 50.00 (0.15)
Overhead Service Line 50.00
Pedestrian Railing

WF	WF	TH	2023.10.03
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Issue Status

FOR INFORMATION

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Client/Project
LIGHTSOURCE BP

PLAS POWER SOLAR DEVELOPMENT

Title
EXISTING SOUTHERN SITE ACCESS

Project No.
330610724

Scale
AS SHOWN

Revision
-

Drawing No.
330610724-SK-1200-004

Plotted: 08.02.2024 12:04:02 BST | 4.06.21 PM By: Fowler, Wilson
Drawing Path: I:\GB\MAN\PP_plas power solar development_5555 - Ironpool\04_drawings\cad\330610724-sk-1200-004_existing southern construction access

Figure 2.30
Southern Site Access (Drawing Ref: 330610724-SK-1200-001)

PROPOSED JUNCTION LAYOUT

1:500

Absolute Minimum Visibility Splay determined from 85th percentile obtained from a speed survey undertaken for 2 weeks commencing 12th July 2023.

Existing solid double white centre lines.

Approximately 25m of stone wall will be relocated along the proposed access road radii.

85th percentile eastbound speed = 45.52mph. This equates to 97m minimum SSD. 131m is achievable.

Trees to be removed

New permanent private access to development with 2.4m set back for visibility splay.

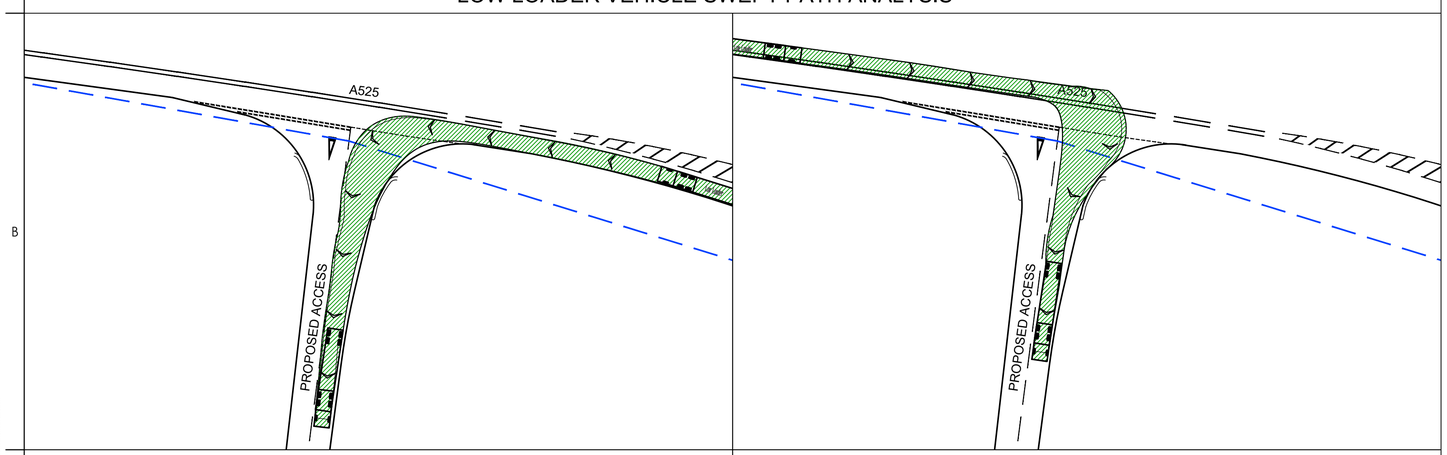
85th percentile westbound speed = 48.21mph. This equates to 106m minimum SSD. 122m is achievable.

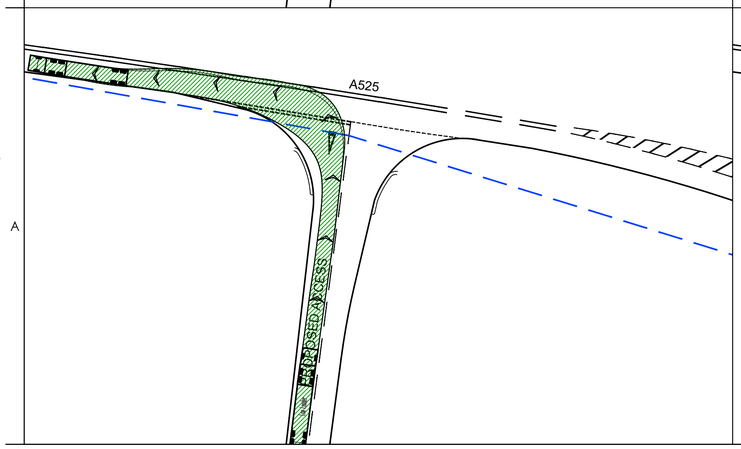
131m
122m
A525
R15
2.4m
PROPOSED ACCESS
7m

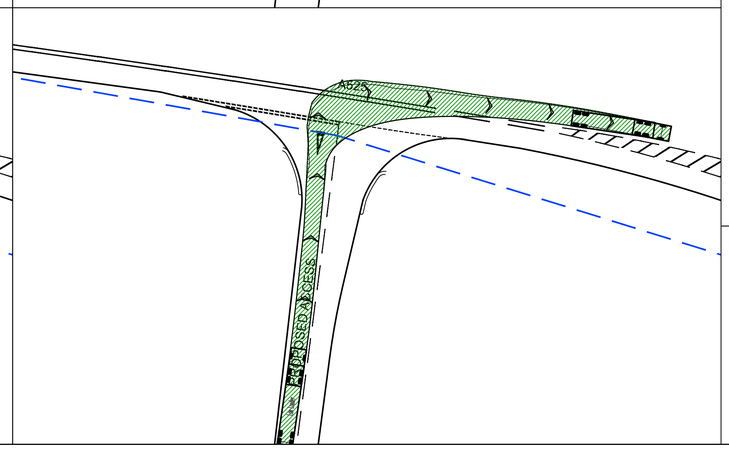
LOCATION PLAN

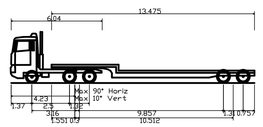
1:20000

LOW LOADER VEHICLE SWEPT PATH ANALYSIS









Low Loader	
Overall Length	16.154m
Overall Width	2.520m
Overall Body Height	3.393m
Min Body Ground Clearance	0.318m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.990m

Stantec

Stantec UK Limited
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NOTES:

1. SOUTHERN CONSTRUCTION ACCESS - SWEPT PATH ANALYSIS BASED ON 10mph/16kph SPEED.
2. SITE STOPPING DISTANCE (SSD) IS CALCULATED FROM THE AVERAGE DAILY 85TH PERCENTILE VEHICLE SPEED AND ASSUMES A 2 SECOND REACTION TIME AND DECELERATION RATE OF 0.375g.

KWM	MG	-	2024.02.06
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Title

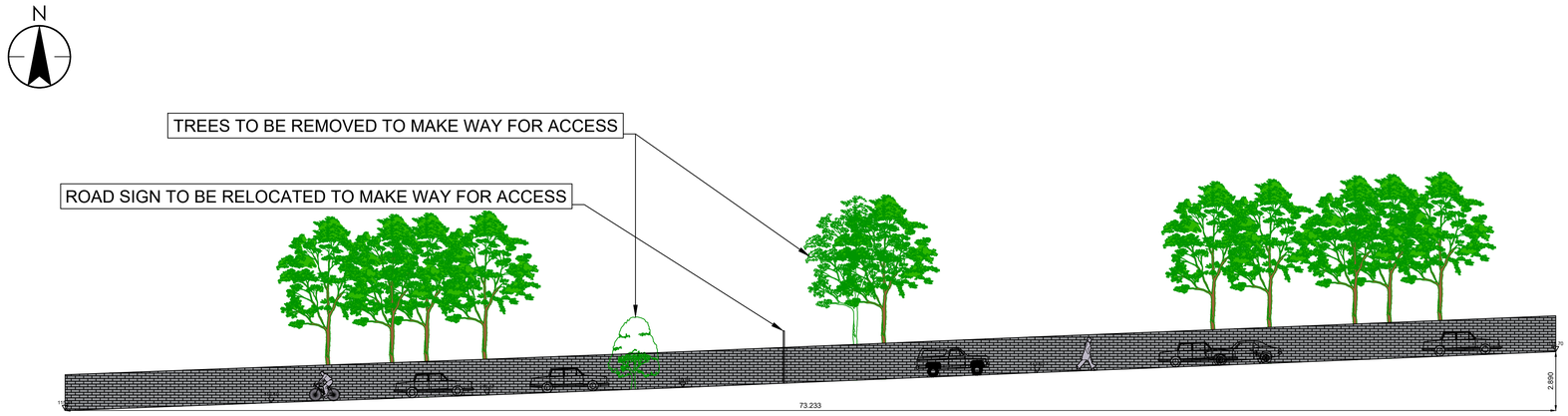
SOUTHERN SITE ACCESS

Project No.	Scale
330610724	AS SHOWN
Revision	**Drawing No.**
-	**330610724-SK-1200-001**

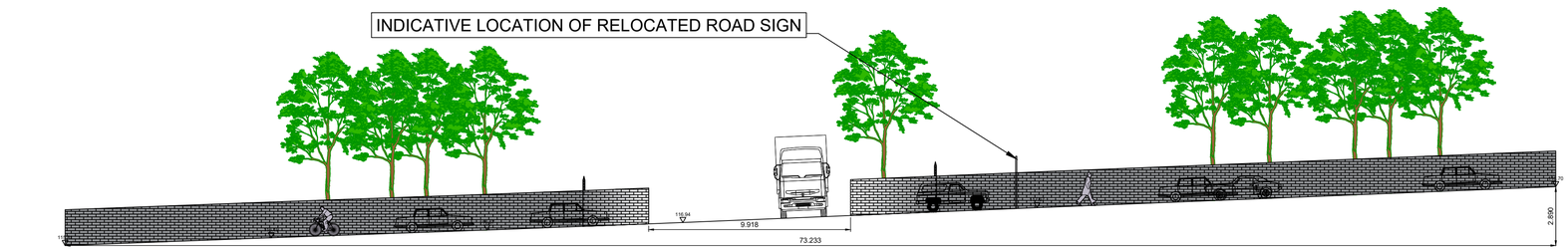
Plotted: 06.02.2024 20:42:28 3.57.77 PM By: Fowler, William
DrawingFullPath: C:\Users\WFOWLER\Stantec\plas power solar development - lightsource bp\Documents\330610724\Design\Drawings\Civil\330610724-SK-1200-001_Indicative southern construction access

Figure 2.31

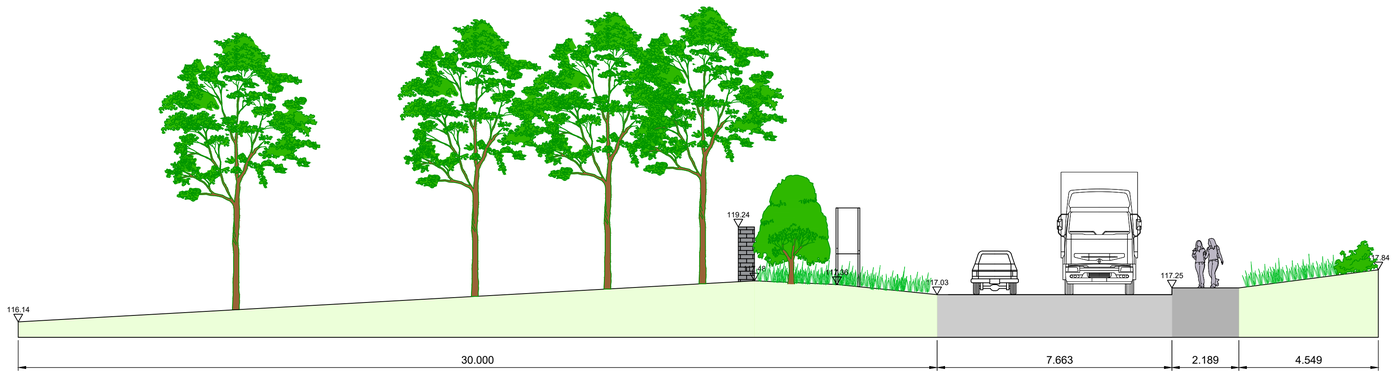
Southern Site Access Cross Section (Drawing Ref: 330610724-SK-1200-005)



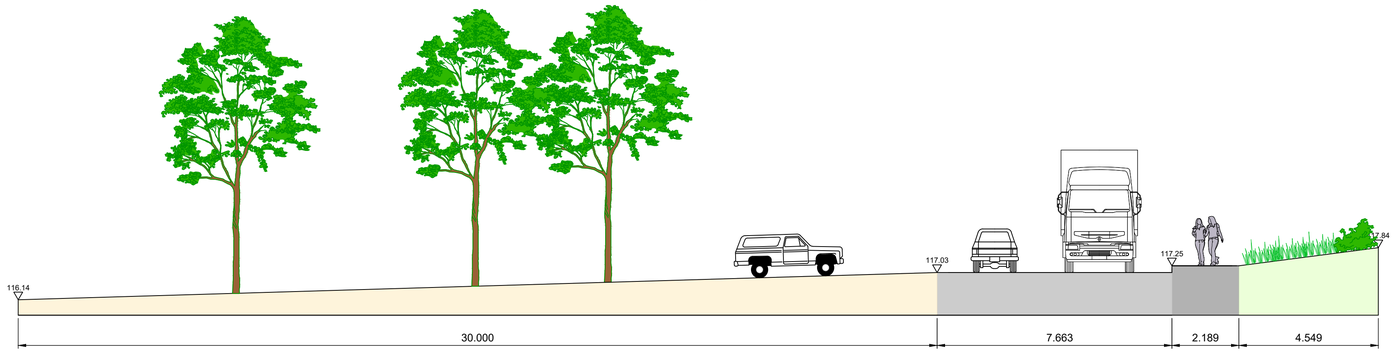
SECTION 1
EXISTING
1:150



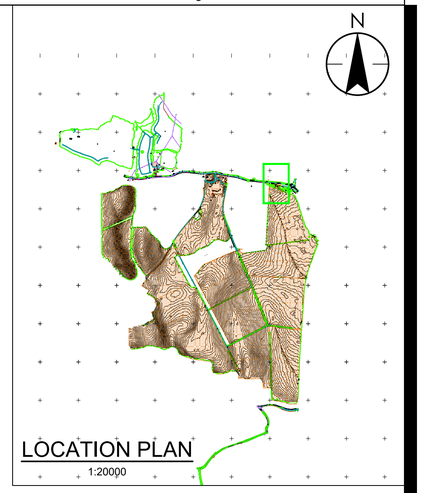
SECTION 1
PROPOSED
1:150



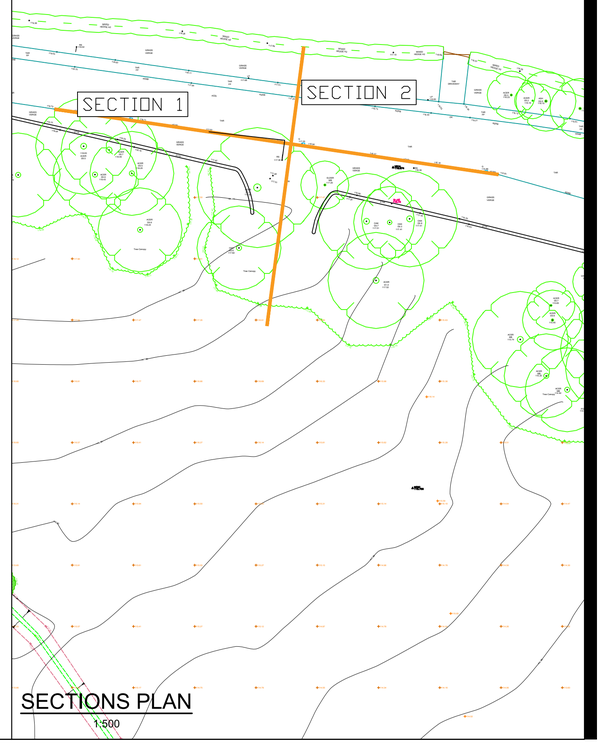
SECTION 2
EXISTING
1:100



SECTION 2
PROPOSED
1:100



LOCATION PLAN
1:20000



SECTIONS PLAN
1:500

KEY

- GRASS / VERGE
- FOOTWAY
- CARRIAGEWAY
- STONE WALL
- PROPOSED ACCESS ROAD

Stantec

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Notes

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WF	WD	TH	2023.10.10
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

CONCEPT DESIGN

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Client/Project Logo

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LIGHTSOURCE BP

PLAS POWER SOLAR DEVELOPMENT

Title
SOUTHERN SITE ACCESS CROSS SECTION

Project No.
330610724

Scale
AS SHOWN

Revision
-

Drawing No.
330610724-SK-1200-005

Plotted: 09.02.2024 20:40:28, 4.04.49 PM By: Fowler, William
File Name: C:\330610724 - plas power solar development\300 - Transport\04_drawings\cad\330610724-sk-1200-005_cross section

Figure 2.32
Northern Site Access (Drawing Number 330610724-SK-1200-003)

PROPOSED JUNCTION LAYOUT

1:500

Absolute Minimum Visibility Splay determined from 85th percentile obtained from a speed survey undertaken for 2 weeks commencing 12th July 2023.

Temporary widening during construction to existing access way.

2.0m visibility setback for construction access.

Existing solid double white centre lines.

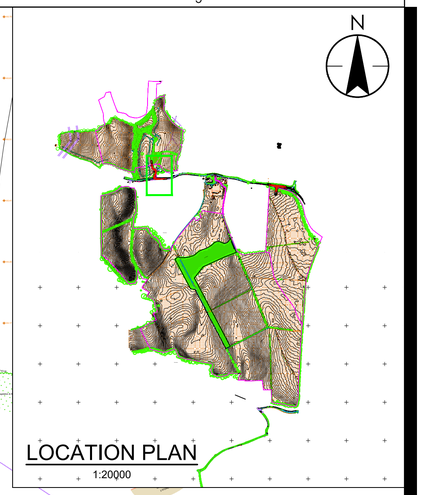
112m

15m

97m

85th percentile eastbound speed = 47.76mph. This equates to 105m minimum SSD. 112m is achievable.

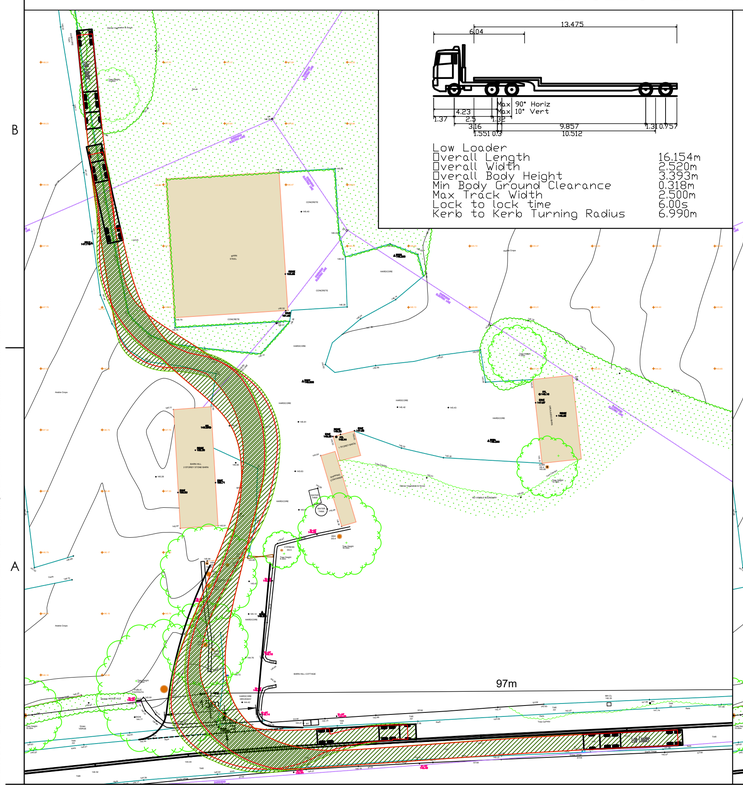
85th percentile westbound speed = 45.52mph. This equates to 97m minimum SSD. 97m is achievable to solid double white centre lines.



LOCATION PLAN

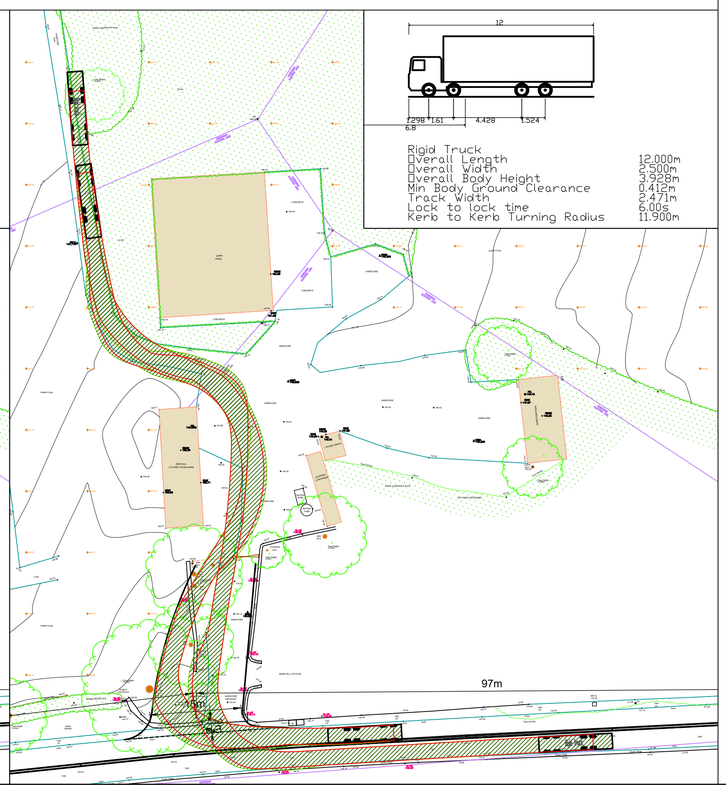
1:20000

VEHICLE SWEPT PATH ANALYSIS



Low Loader

Overall Length	16.154m
Overall Width	2.520m
Overall Body Height	3.353m
Min Body Ground Clearance	0.318m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.990m



Rigid Truck

Overall Length	12.000m
Overall Width	2.500m
Overall Body Height	3.928m
Min Body Ground Clearance	0.412m
Track Width	2.471m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	11.900m

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NOTES:

1. NORTHERN CONSTRUCTION ACCESS - SWEPT PATH ANALYSIS BASED ON 5mph/8kph RESTRICTED SPEED LIMIT.
2. SITE STOPPING DISTANCE (SSD) IS CALCULATED FROM THE AVERAGE DAILY 85TH PERCENTILE VEHICLE SPEED AND ASSUMES A 2 SECOND REACTION TIME AND DECELERATION RATE OF 0.375g.

KWM	KWM	-	2023.09.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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PLAS POWER SOLAR DEVELOPMENT

Title

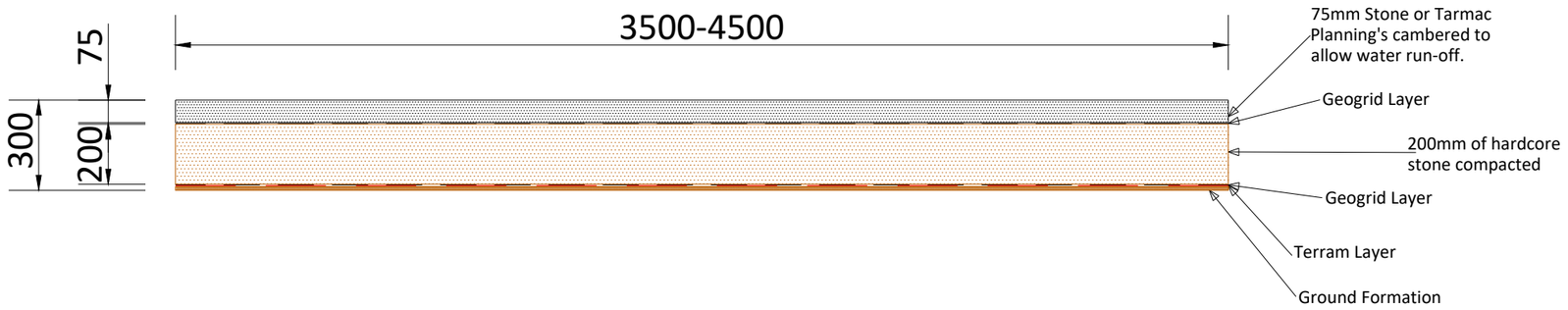
NORTHERN SITE CONSTRUCTION ACCESS

Project No.	Scale
330610724	AS SHOWN
Revision	Drawing No.
-	**330610724-SK-1200-003**

Plotted: 08.03.2024 10:42:28 AM By: Fowler, William
File Name: N:\GBR\WOF\Plas power\Solar development\SSD - transport\04_drawings\cad\330610724-sk-1200-003_indicative northern construction access

Figure 2.33
Indicative Road Cross Section (Drawing Ref: GBR_EPD_RCS)

Access Track Detail



A3 - (420 x 297)mm

METERS

0 1 2 3 4 5

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GBR_EPD_Indicative Road Cross Section_01			
DA			Nov. 2023
DRAWN	CHECKED	APPROVED	DATE
Paper Size: A3	Scale: 1:20	Sheet: 1	
DRAWING NUMBER: GBR_EPD_RCS	STATUS: Rev 01		

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