

Duxhurst Solar Farm



Figure 1
Site Location

Key
 Site boundary

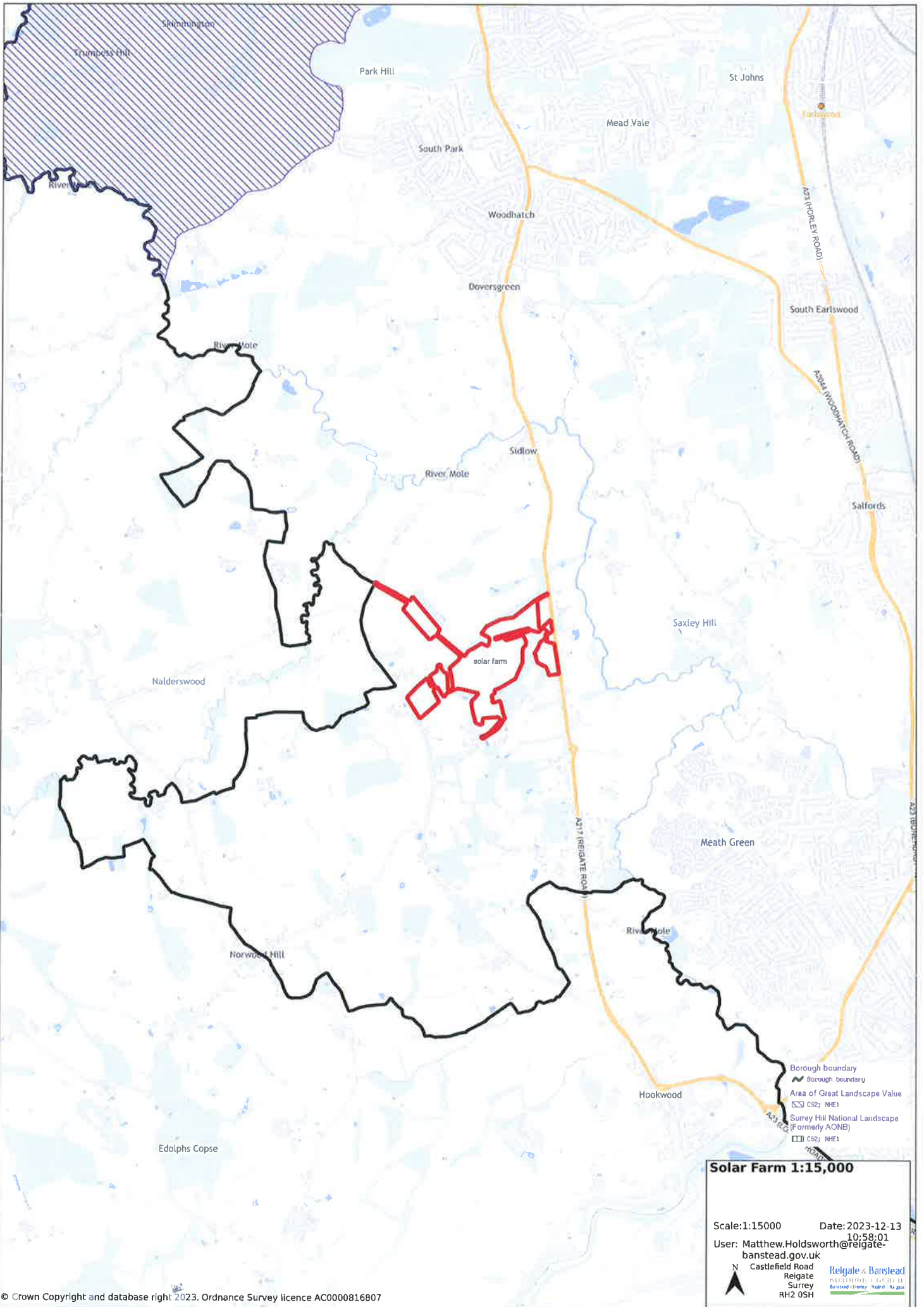


0 50 100 200
Metres

N

Scale @ A3:
1:5,000

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Ordnance survey licence number 100031673.



Solar Farm 1:15,000

Scale: 1:15000 Date: 2023-12-13
 10:58:01
 User: Matthew.Holdsworth@reigate-banstead.gov.uk
 Castlefield Road
 Reigate
 Surrey
 RH2 0SH

Reigate & Banstead
 Borough Council
 Planning & Regeneration



Skylark Indicative Plots
(not to scale)

- Key**
- EXISTING TREE AND WOODLAND
 - EXISTING HEDGEROW
 - PROPOSED HEDGEROW
 - PROPOSED PUBLIC FOOTPATH
 - PROPOSED PERENNIAL STRIP OF GRASS
 - EXISTING FENCE
 - PROPOSED FENCE
 - PROPOSED UNDERGROUND CABLE
 - PROPOSED 10M TREE BELT
 - PROPOSED 15M TREE BELT
 - PROPOSED 3M TREE BELT
 - PROPOSED 3M SCRUB STRIP
 - PROPOSED WOODLAND UNDERSTORY PLANTING
 - PROPOSED CUSTOMER SUBSTATION
 - PROPOSED CONSTRUCTION CAMP/STORAGE
 - PROPOSED SECURITY FENCING
 - PROPOSED GATE
 - PROPOSED SOLAR PANELS
 - PROPOSED UNDERGROUND CABLE
 - SKYLARK PLOT INDICATIVE LOCATION (ON A 15M)

GRID NORTH

Duxhurst Solar Farm

Landscape and Ecological Management Plan

Scale: 1:2000

Drawn by: AD

Checked by: JO

Approved by: BK

Issue: 01

Project: LUM_018_04

Date: 13/10/2023

BRITISH NATIONAL GRID - NEWLYN DATUM (AGD)

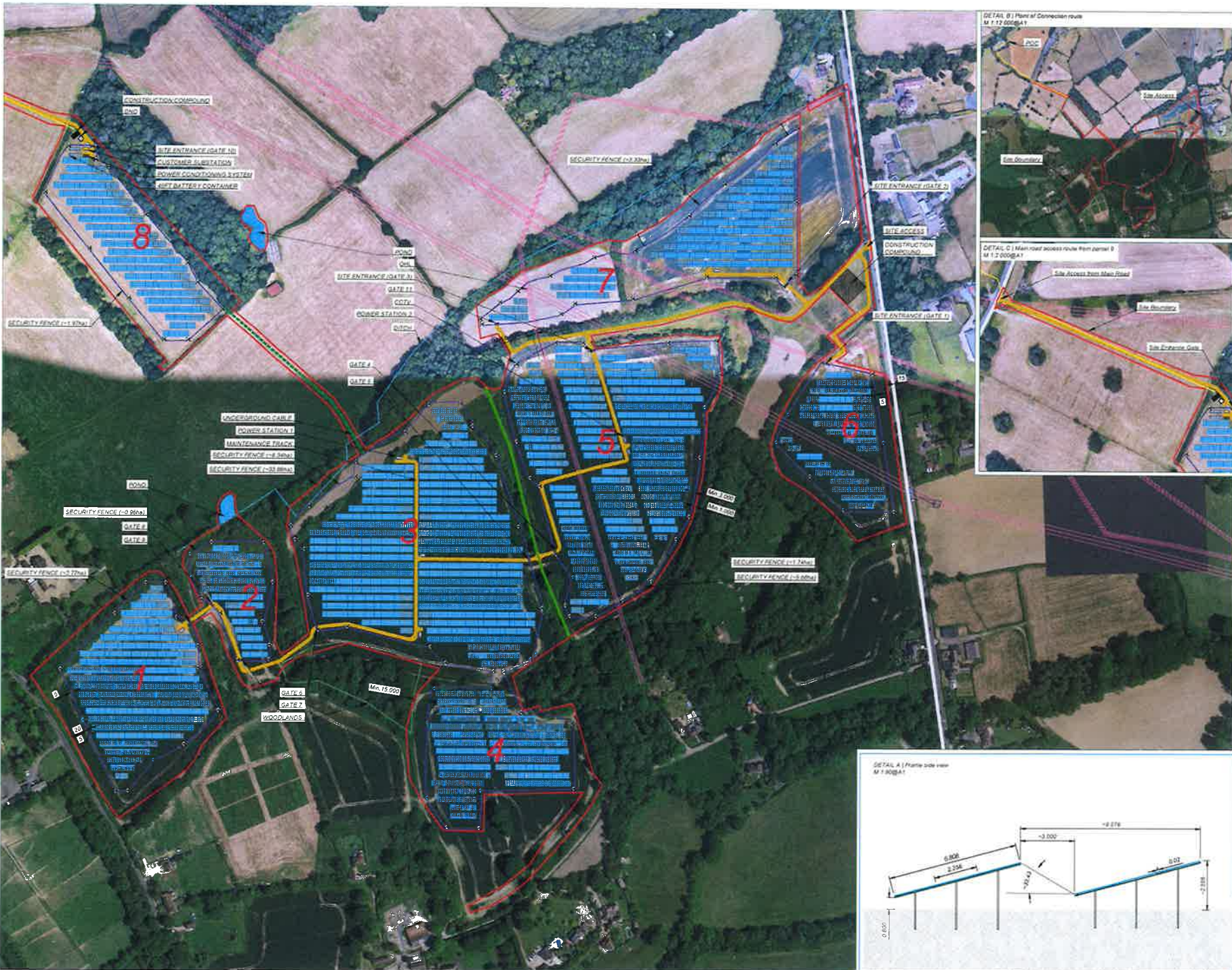
LUMINOUS ENERGY

100% RENEWABLE ENERGY



REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDERS	13/10/2023
2	REVISIONS TO ADDRESS COMMENTS FROM CLIENT	13/10/2023
3	REVISIONS TO ADDRESS COMMENTS FROM CLIENT	13/10/2023
4	REVISIONS TO ADDRESS COMMENTS FROM CLIENT	13/10/2023
5	REVISIONS TO ADDRESS COMMENTS FROM CLIENT	13/10/2023



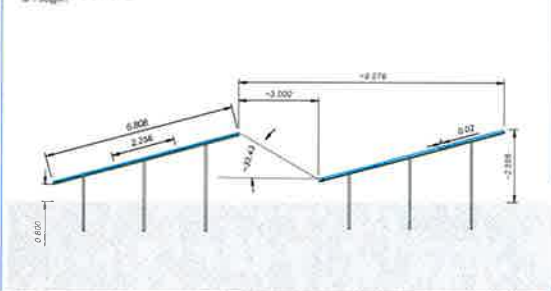
DETAIL B | Plan of Connection route
M 1:12 000@A1



DETAIL C | Main road access route from parcel B
M 1:2 000@A1



DETAIL A | Frame side view
M 1:800@A1



Notes

- All dimensions to be confirmed on site prior to installation.
- All dimensions are indicative only and in m unless otherwise specified.
- Drawings based on satellite data imagery date: 06/08/21.

Designation

Code	Description	Color
01	Site boundary (0-0.88m)	Red
02	Planning fence (0-0.88m)	Blue
03	Overall fenced area (0-24.79m)	Yellow
04	Main road	White
05	POND	Blue
06	Proposed permeable right of way	Green
07	Ditch	Light Blue
08	Underground cable	Orange
09	CHL	Pink
10	Maintenance track	Yellow
11	Customer substation	White
12	DVD	White
13	40kV Battery storage container	White
14	Power conditioning system	White
15	20kV Power station (2x 2000kVA)	White
16	20kV Power station (2x 2000kVA)	White
17	Table of 3075 modules (124.6ac)	Blue
18	Table of 3075 modules (124.6ac)	Blue
19	Gate	White

System Information

DC Power kWp	24 328.80
AC Power kWp	20 088.80
No. of modules	44 818
Module type	Compl 510 200Wp/200W
Dimensions	2256x1326x35
Structure type	3 module in parallel
Modules per array	26
Number of arrays	1 716
Pitch angle	11.00
Shading angle	11.00
Asympt. Azim South	1.00
Inverter model	SMA 323000W/323000W
Inverter power, kW	3000 / 23000 (Phase)
No. of inverters	2
DC/AC ratio	1.24 (3/Phase)

Physical location

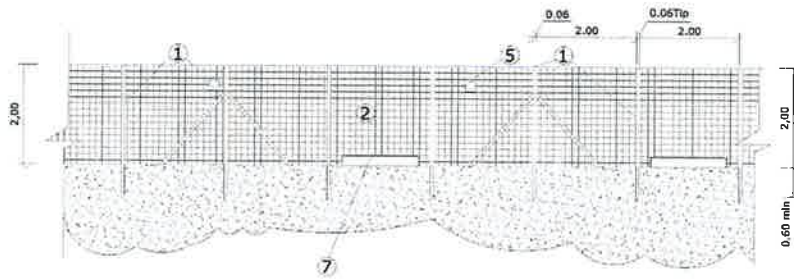
Reference	Area	Estimate	Start Date

Project Durburtt Solar Farm
Location Salfords and Salford, Wokingham County, UK
Type PV Layout
Client Durburtt Solar Farm
Date 12/08/21
Drawing No. LUM/008-102 Rev: 1

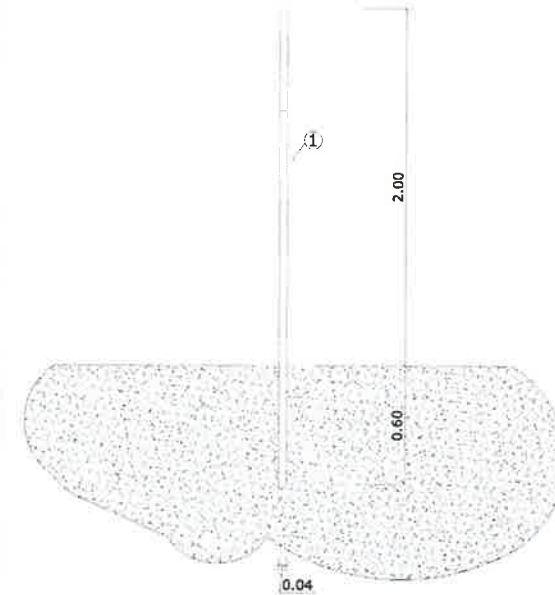
LUMINOUS ENERGY
 100% Renewable Energy
 100% Carbon Neutral
 100% British Made
 100% Quality Guaranteed

1 2 3 4 5 6

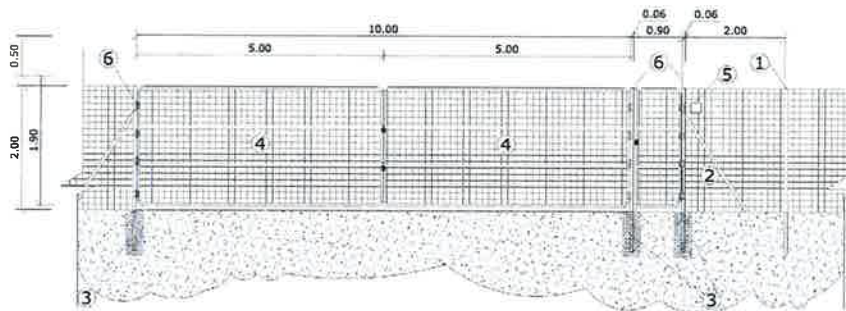
DETAIL LATERAL FENCE.
S/E



FENCE SECTION.
S/E



DETAIL ACCESS GATE.
S/E



TABLE

- ①: The posts should measure 60/40/2 mm. They should be made from wood and be placed 2000 mm apart, and should be buried to a minimum depth of 0.60 m.
- ②: The wire mesh surrounding the perimeter should be made from Ø 3 mm galvanized steel, the hole density should be 50/200 mm.
- ③: Mounted on B25 concrete bases (350 x 600 mm).
- ④: Galvanized steel hot gate with a minimum of 6m opening.
- ⑤: There should also be rain and UV resistant signs that read "Danger High Voltage".
- ⑥: The posts should measure 60/40/2 mm and have rain caps, they should be made from galvanized steel. They should be buried to a depth of 0.50 m.
- ⑦: Hole for passage of animals 1.5x0.2m

Galvanized hot steel
DIN EN ISO 1461

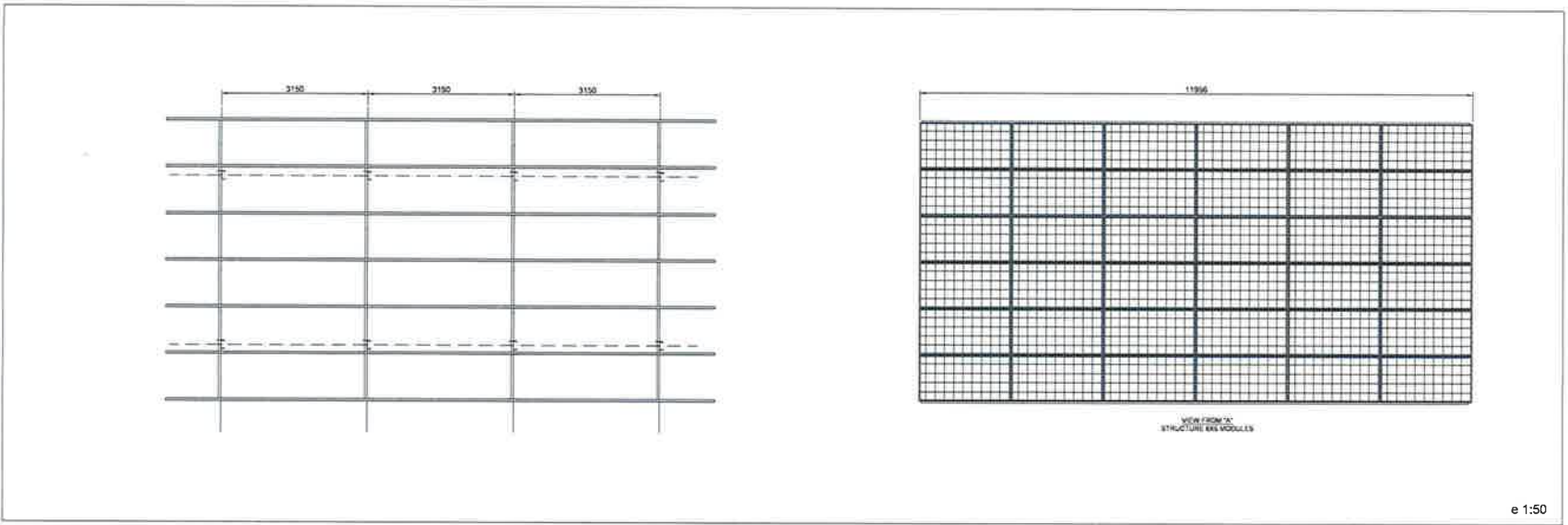
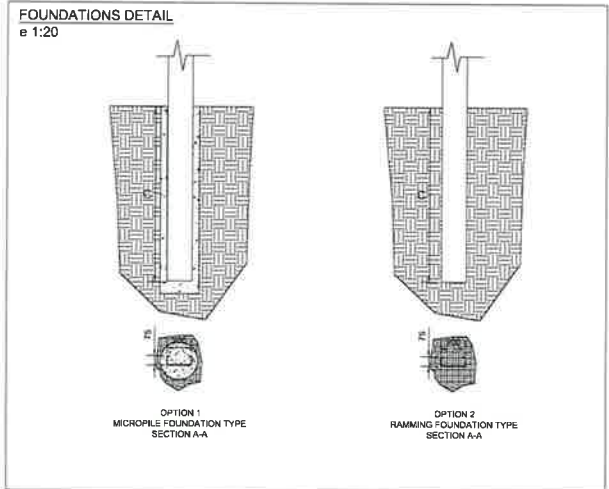
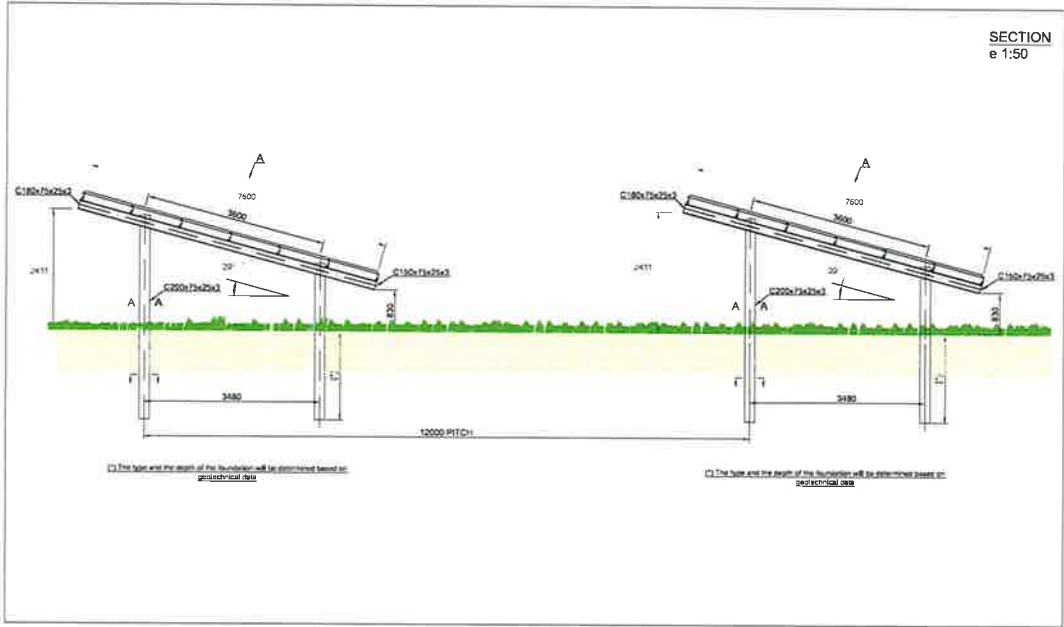
Thickness Part	Local value (minimum) (µm)	Average (minimum) (µm)
Steel > 6mm	70	85
3 mm < Steel < 6 mm	55	70
1,5 mm < Steel < 3 mm	45	55
Steel < 1,5 mm	35	45

INDICATIVE IMAGE



E
D
C
B
A

CLIENT
DRAWING NUMBER
PROJECT NO.:
Figure 10
SHEET TITLE
FENCE AND GATE DETAILS
ORIGINAL SIZE "841 X 594"
SHEET SIZE "A-1"
A4 A3 A2 A1 A0
STAMP:
DATE: 20-02-2024
DRAWN BY: FAC
ENGINEER: SUTS
APPROVED BY: CEI
NO. REVISION DATE INT.
PROJECT PHASE: APPROVAL
SCALE: AS SHOWN
SHEET NO.:
1 OF 1



NOTE:
These profiles sections and screws must be confirmed and verified by the structure calculations and according with the applicable country regulations
This is a preliminar design that can be modified in order to withstand the requirements of the projects

E																																																																		
D																																																																		
C		Figure 3																																																																
B		PV Panel Details																																																																
A		<p>ORIGINAL SIZE "841 X 594" SHEET SIZE "A-1"</p> <p style="text-align: center;">A4 A3 A2 A1 A0</p> <p>STAMP:</p> <p><small>Warning: The drawing contains information and instructions which are confidential and of the property of the company. It is not to be reproduced, copied, or used in any way without the written permission of the company. If you have any questions, please contact the company.</small></p> <p>DATE: 20 - 01 - 2021 DRAWN BY: MAC ENGINEER: CEP APPROVED BY: CEP</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>AUT.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>PROJECT TITLE: APPROVAL SCALE: AS SHOWN SHEET NO: 1 OF 1</p>	NO.	REVISION	DATE	AUT.																																																												
NO.	REVISION	DATE	AUT.																																																															



Solar panel extent 6



Dushuti Solar Farm	Figure 8	Viewpoint 4 A212, Range Road of Lower Dushuti Farm	Light Selection None Height Above Ground	30.09.18 15:41 68.442 7.01	Source Location Coordinates 31.034444, 18.844444	Image Type Projection	Image Size 68.442 x 18.844444	Horizontal Field of View = 90° Vertical Field of View = 27.1°	Cylindrical Projection	Principal distance of the image = 81 cm	Paper Size = 61.1 x 29.7 cm (A1 warm)	View (at) a comfortable arm's length, if viewing this image on a screen, enlarge to full screen height	Image Size = 69.01 x 29.0 cm	
--------------------	----------	---	--	----------------------------------	--	-----------------------------	----------------------------------	--	------------------------	---	---------------------------------------	--	------------------------------	--



Duxford Solar Farm

Figure 7

Viewpoint 3: South from Road at Edgeway Stud and F&W

Viewpoint 3: South from Road at Edgeway Stud and F&W

03/07/2024 14:42:07

03/07/2024 14:42:07

03/07/2024 14:42:07

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03/07/2024 14:42:07

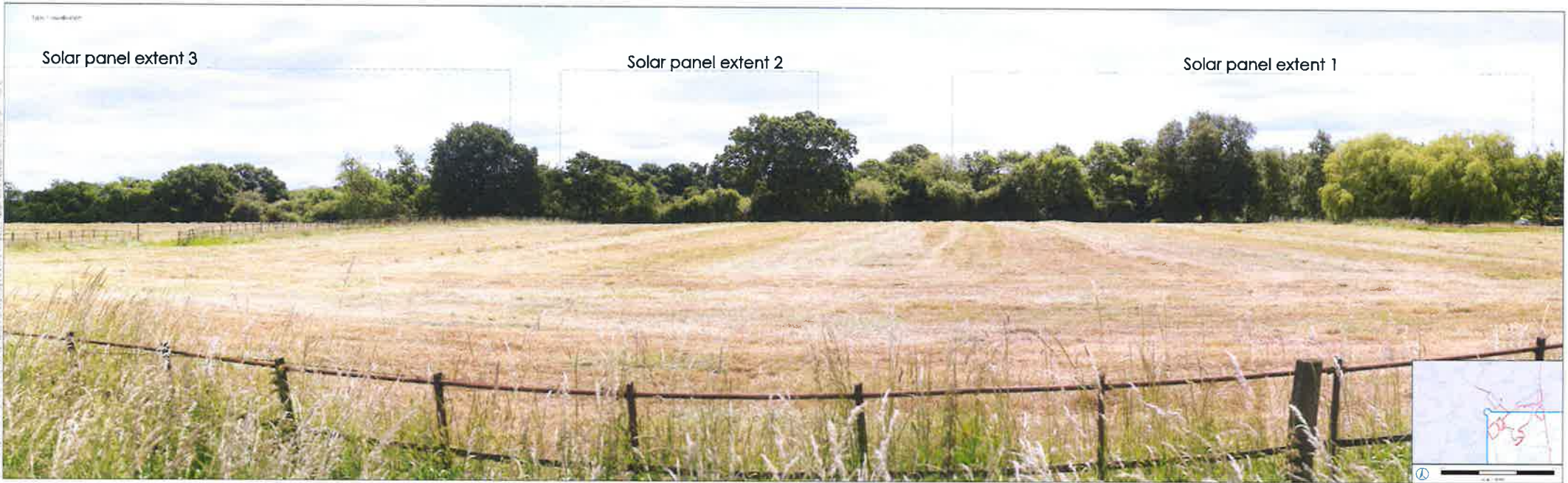
03/07/2024 14:42:07

03/07/2024 14:42:07



03/07/2024 14:42:07







Solar panel extent 8

Solar panel extent 7

Dukhoni Solar Farm

Figure 5a

Viewpoint 1a:
PoleW Northeast of Wolven Home Farm

UTM Zone
18QUD

55742E, 4948446
UTM Zone
18QUD

Location: 18QUD
Northeast of Wolven Home Farm

Image 2
18QUD
Northeast of Wolven Home Farm

Image 3
18QUD
Northeast of Wolven Home Farm

Horizontal Field of View = 90°
Vertical Field of View = 27.4°

Cylindrical Projection

Final publication of the image = 81 cm

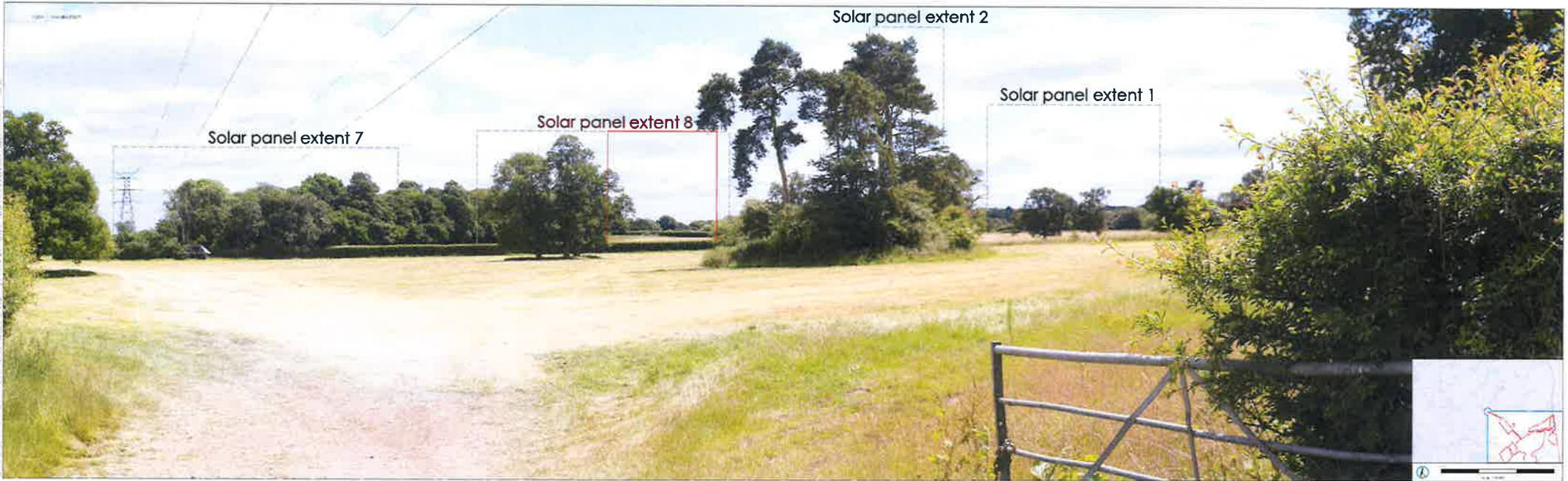
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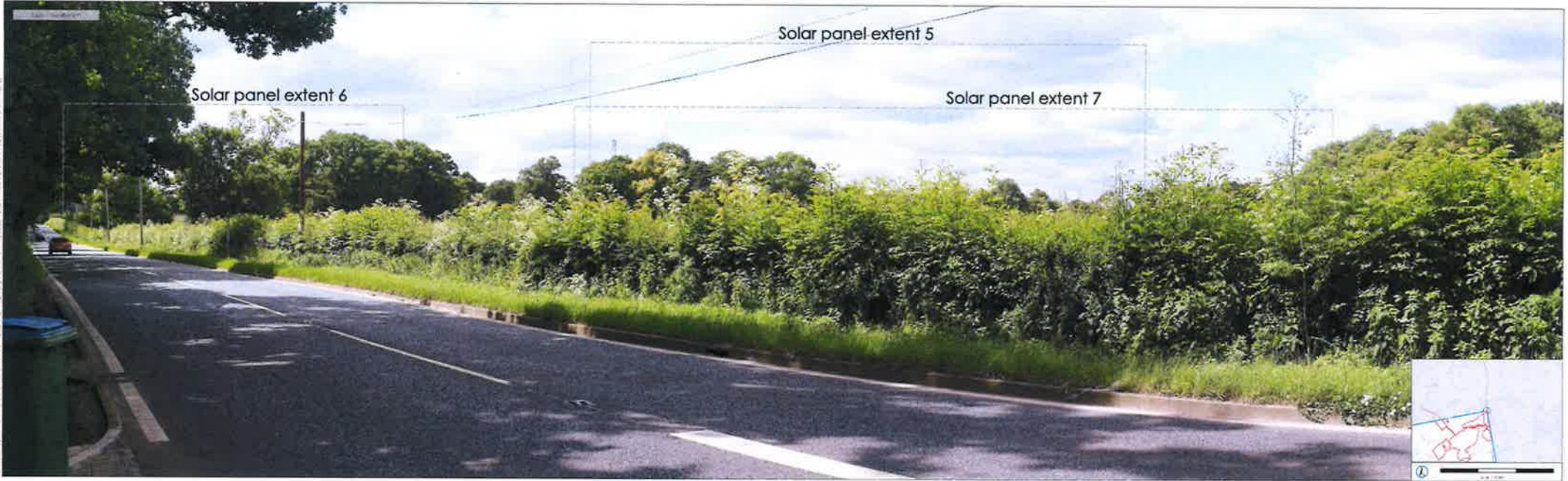
View flat at a comfortable arm's length. If viewing this image on a screen, enlarge to full screen height

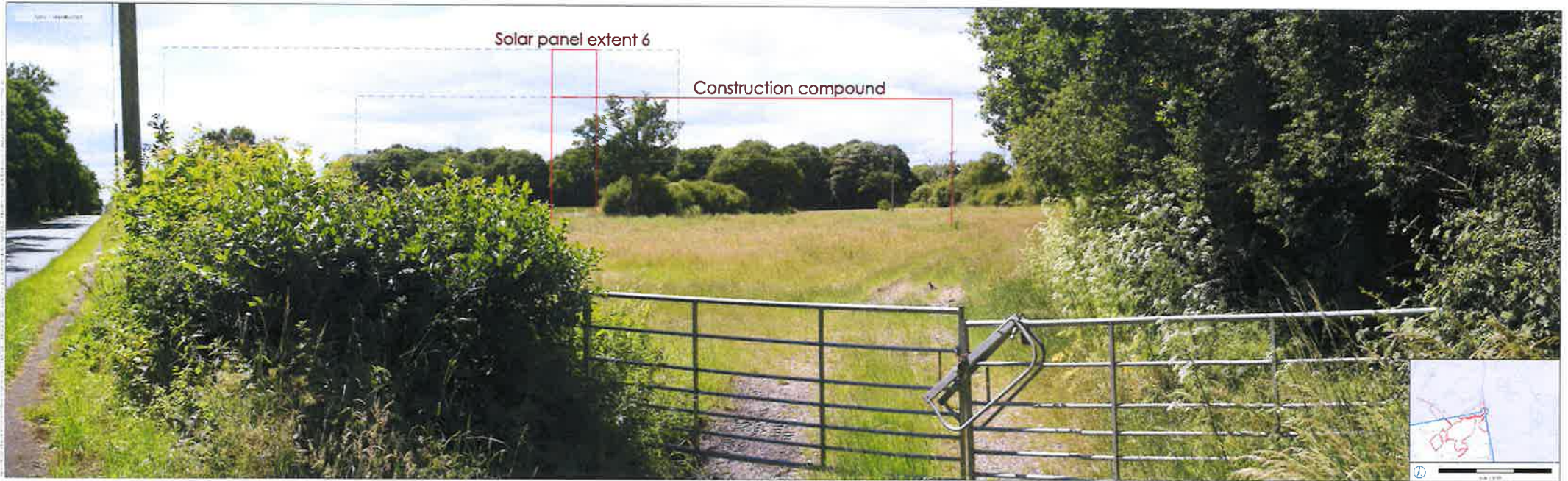
Image Size = 87.0 x 26.0 cm

almas









Solar panel extent 6

Construction compound

Duxford Solar Farm

Figure 3

Viewpoint 6
A214, Priggin Road - Fenigrove Railway Path

1:1000
Scale

01/11/2023
Date

01/11/2023
Date

01/11/2023
Date

01/11/2023
Date

Height of Field of View = 70'
Vertical Angle of View = 27.4°

01/11/2023
Date

Principal distance of the image = 80' ft

Aperture width = 1 x 29.7 cm (1 x 11.7 in)

View field of a camera lens of length 1 ft viewing this image on a screen, aperture to full 12 inch height

Image size = 693 x 261 mm

01/11/2023
Date

01/11/2023
Date

01/11/2023
Date



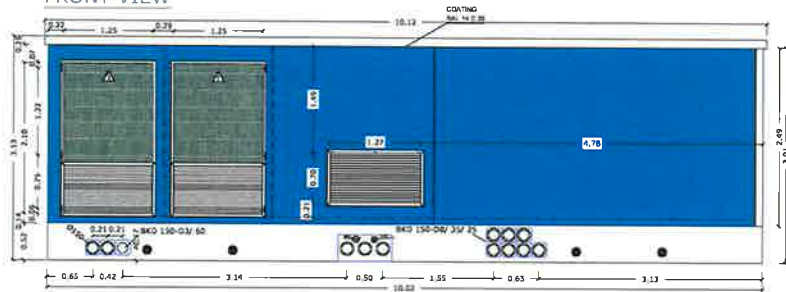
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2

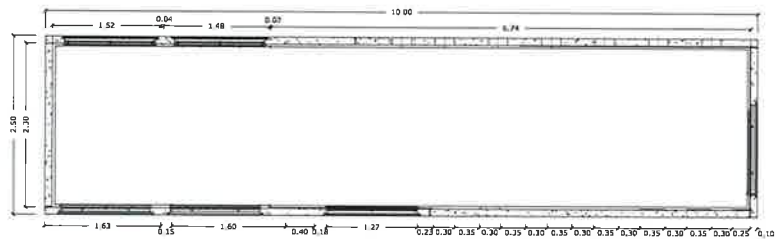
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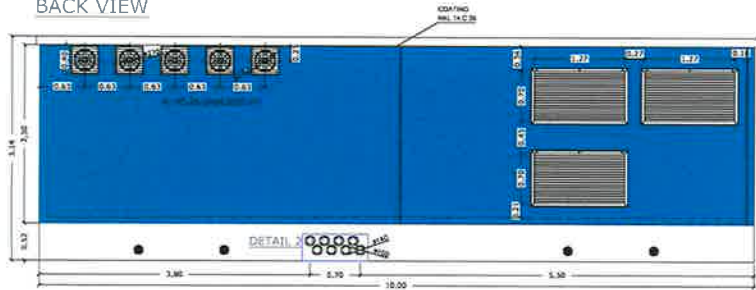
FRONT VIEW



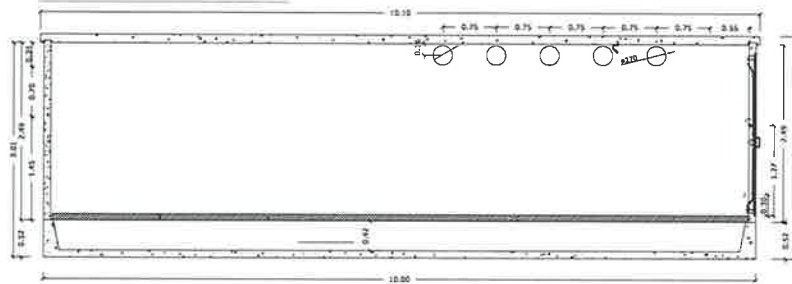
TOP VIEW



BACK VIEW

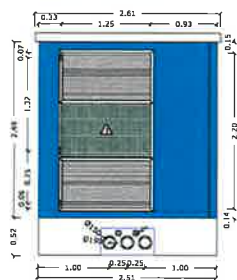


LONGITUDINAL SECTION

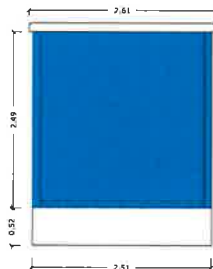


CABIN 10,00 x 2,50 x 3,14 m.

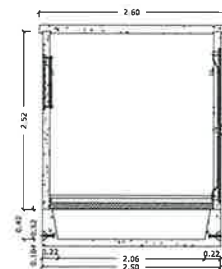
RIGHT VIEW



LEFT VIEW



SECTION



C

B

A

CLIENT:

DRAWING NUMBER:
Figure 7

SHEET TITLE:
CUSTOMER CABIN

ORIGINAL SIZE "594 X 420"
SHEET SIZE "A-2"



STAMP:

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DATE: 30-10-2014

DRAWN BY: MAC

ENGINEER: CEP

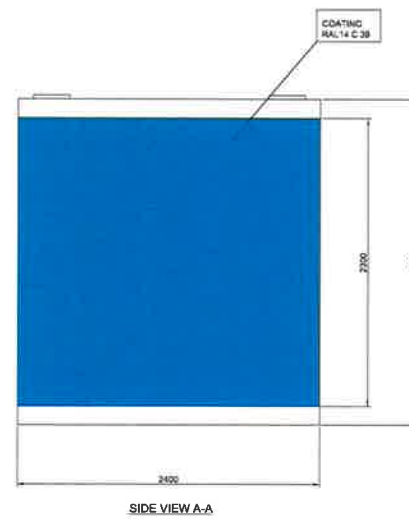
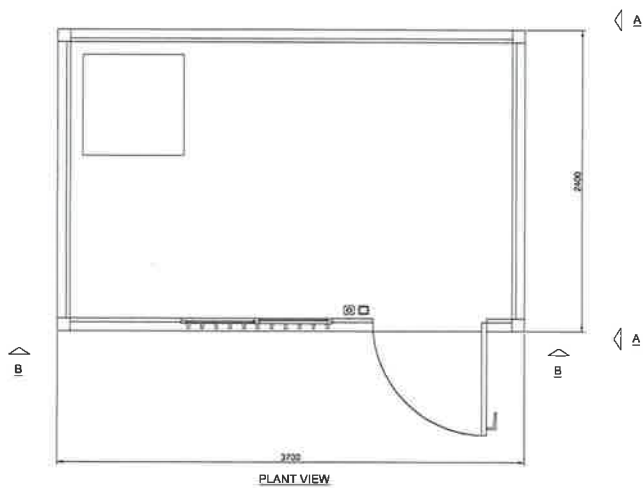
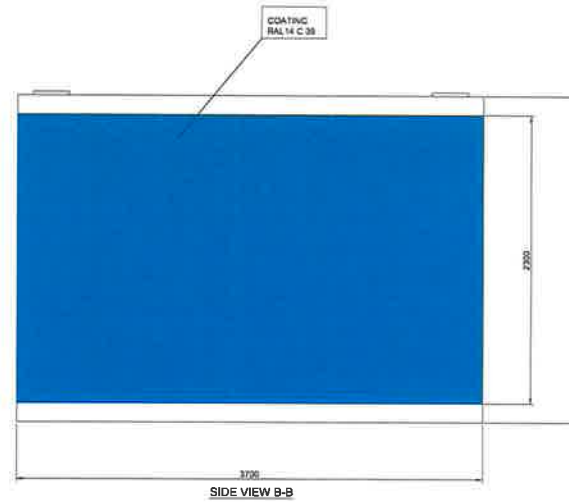
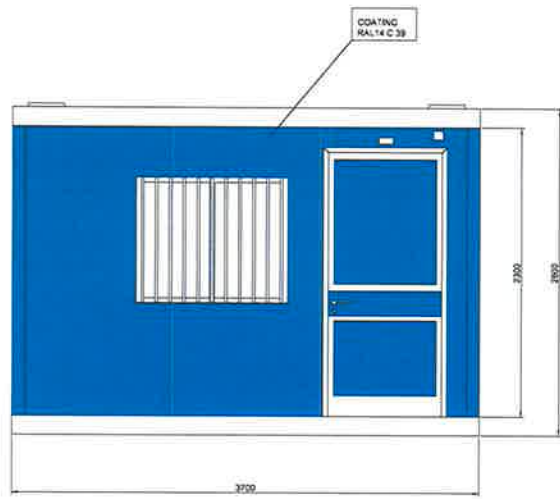
APPROVED BY: CEP

NO.	REVISION	DATE	INIT.

PROJECT PHASE: APPROVAL

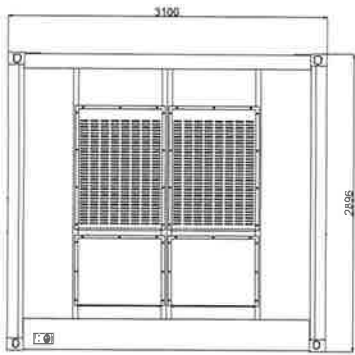
SCALE:
1:50

SHEET NO.:
1 OF 1

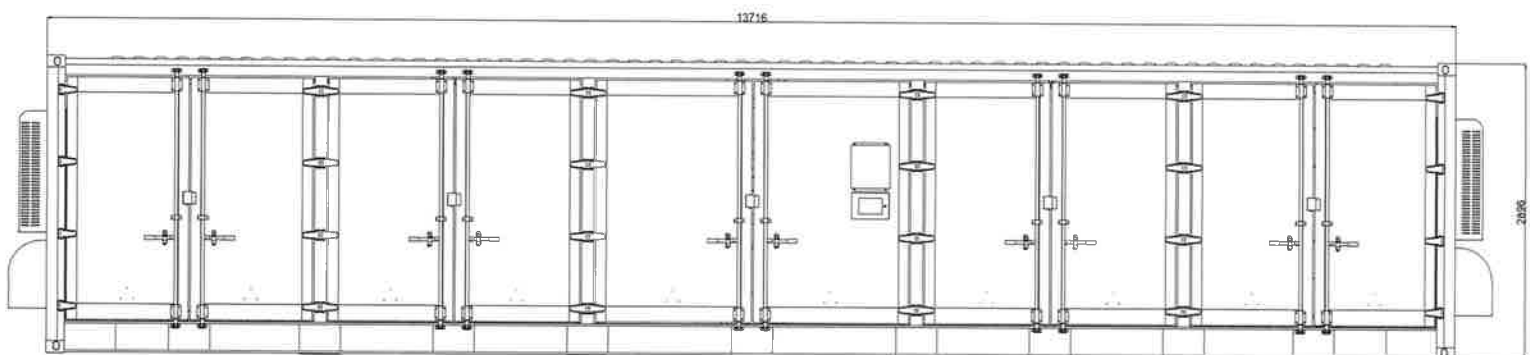


MATERIAL: aluminum sandwich panel

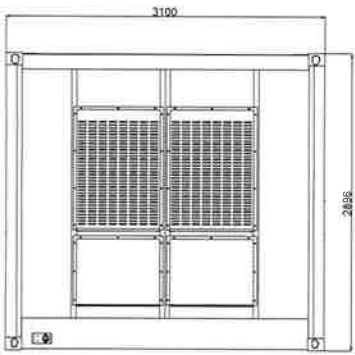
E					
D	CLIENT:				
	DRAWING NUMBER:	Figure 8			
C	SHEET TITLE:	CONTROL ROOM			
	SCALE:	ORIGINAL SIZE "B41 X 594" SHEET SIZE "A-1"			
B	DATE:	30-10-2014			
	DRAWN BY:	MAC			
	ENGINEER:	CEP			
	APPROVED BY:	CEP			
	NO.	REVISION	DATE	INT.	
	#				
A	PROJECT NAME:	APPROVAL			
	SCALE:	1:20			
	SHEET NO.:	1 OF 1			



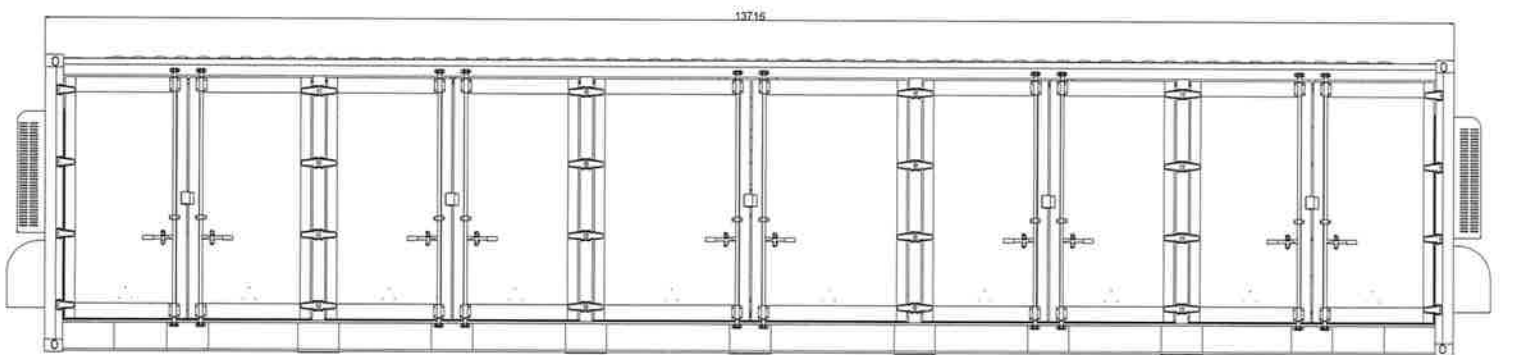
FRONT ELEVATION



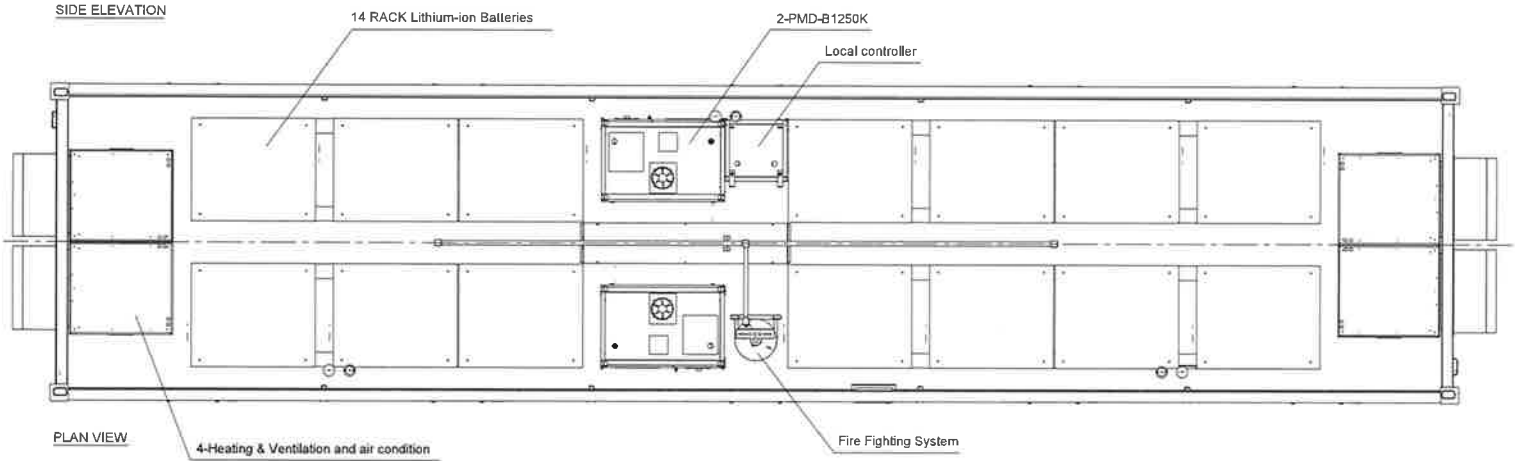
SIDE ELEVATION



FRONT ELEVATION



SIDE ELEVATION



PLAN VIEW



Drawn by	KB	Date	2021-01-20	Drawing Number	Figure 9
Checked by	KB	Date	2021-01-20	Drawing Name	Battery Storage Container Details
Approved by	DB	Date	2021-01-20		

REV	0	Project Name	Dukhurst Solar Farm
		Project Number	

Drawing Scale	1:50
Drawing Status	PLANNING

1 2 3 4 5 6

1

2

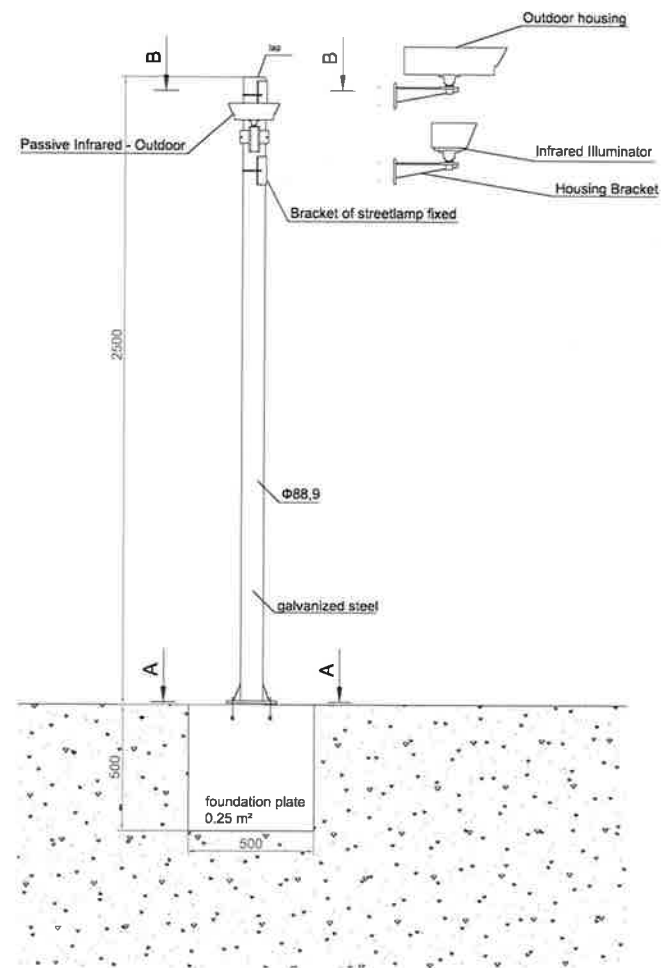
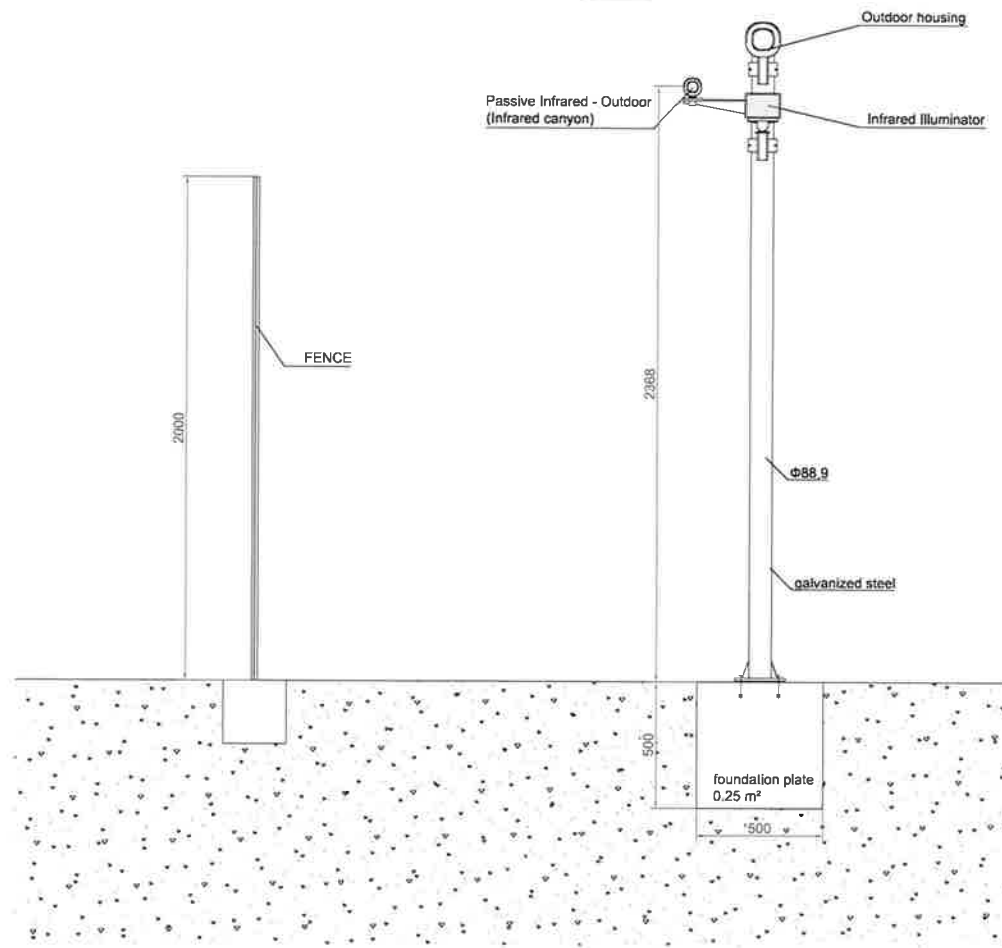
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4

5

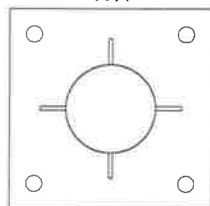
6

Pillar



Sections M1:50

A-A



B-B



NOTE: The design and specifications are preliminary and subject to change during detail design.

E

D

C

B

A

CUSTOMER:

Figure 11

SHEET TITLE:

CAMERA DETAIL

ORIGINAL SIZE "B41 X 594"
SHEET SIZE "A-1"



SCALE:

Revised: 10/12/2014

DATE: 30-10-2014

DRAWN BY: MAC

ENGINEER: CJP

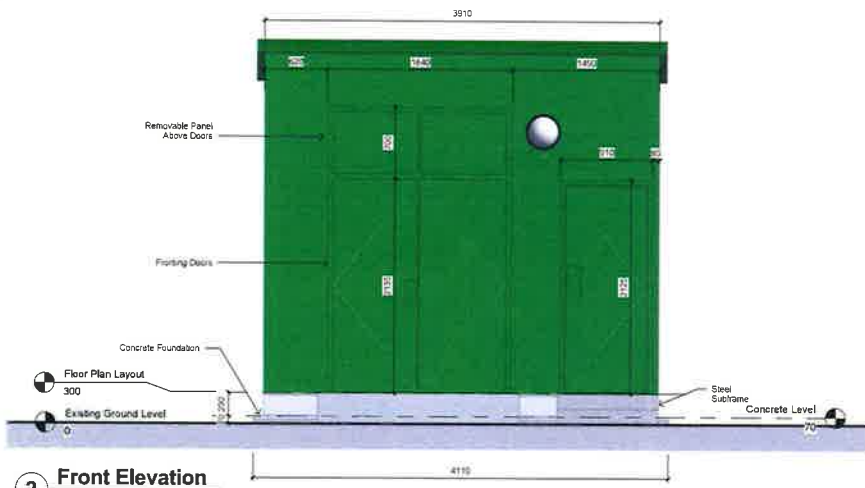
APPROVED BY: CJP

NO.	REVISION	DATE	INT.

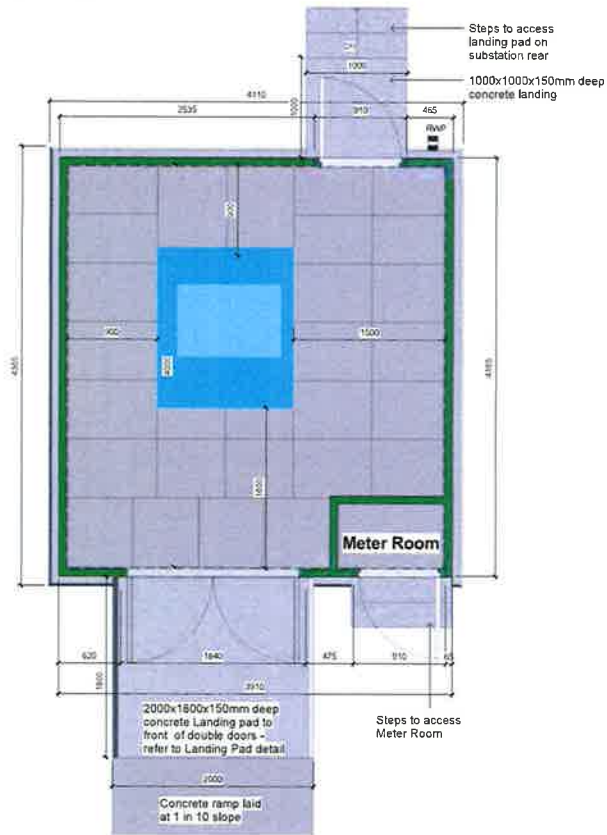
APPROVAL

1:10

1 OF 1



2 Front Elevation
1 : 25



1 Floor Plan Layout
1 : 25

Key to Drawing Items

Drawing number key
P678(01)-25-01-0

- Revision Number
- Sheet number
- Building number
- Phase number

Key to section lines

01/02

The arrow points in the section view direction
Sheet number the section is on

This example means the section is shown in item 01 on sheet 02 (in this case the sheet will be P678-25-02)

Key to elevation symbol

01

The arrow points in the view direction
Sheet number the elevation is shown on

This example means the elevation (which is looking from the location of the circle in the direction of the arrow) is shown in item 2 on sheet 01 (in this case the sheet will be P678-25-01)

Level key

Foundations

Tide of level
-600

Vertical spacing in mm from datum level (0 is at Ground Floor level)

Item label key

6

Section E

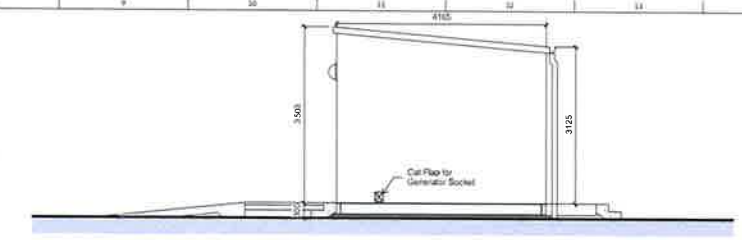
1 : 50

Scale of item
Item number

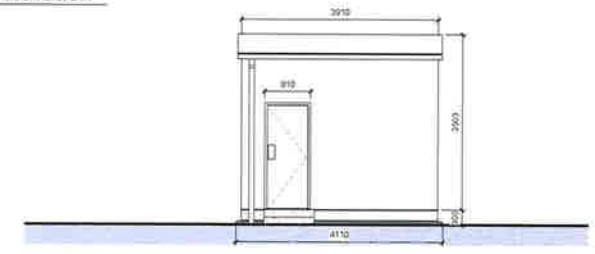
Gridline key

A

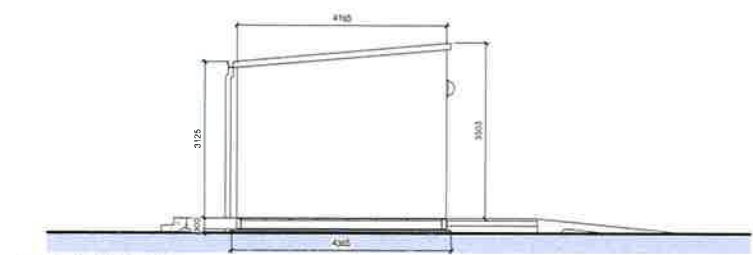
Grid line reference (can be a letter or number)



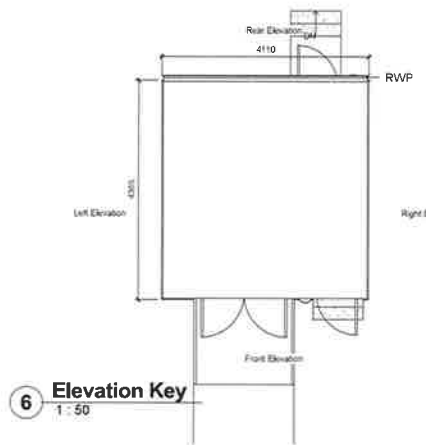
3 Right Elevation
1 : 50



4 Rear Elevation
1 : 50



5 Left Elevation
1 : 50



6 Elevation Key
1 : 50

- NOTES:**
- The housing is to be of GRP construction sitting on a concrete base with approximately 70mm of the concrete visible above finished ground level. The external wall colour to be BS4800 14-C-39 (Holy Bush Green) in a gelcoat finish.
 - A minimum ground bearing pressure of 50kN/m² must be achieved at formation level. This should be checked by a competent engineer and if 50kN/m² is not achieved, the design engineer should be consulted immediately.
 - All drawings should be read in conjunction with all other drawings.
 - The GRP container to obtain a u-value of 0.35w/m²k.
 - The GRP container is to provide a security rating of LPCB2 / SR2.

Finished ground level around bund wall to be a minimum 70mm below top of wall all around. Formed from aggregate compacted in layers of 150mm thickness. DTP Type 1 Material or Similar to be used.

Sheet List	
Sheet Number	Sheet Name

Revision Number	Date	Revision Description	Drawn/Checked	Approved By
0	FEB 21	Original		

Revision Schedule	

Project Number:
Project Title: **Duxhurst Solar Farm**
Client(s):
Project Issue Date:
Drawn By: **NJ** Checked By: **EG** Approved By: **CF**

Figure 6

Drawing Name: **DNO Substation Details**

Sheet Print Stamp:
Scale: As indicated Paper Size: **A1**
Drawing Status: **FOR APPROVAL**