TotalEnergies

Candwr Solar Farm

Pre-Application Consultation

Environmental Statement

Figure 4.2 General Arrangement Drawings

2 July 2026

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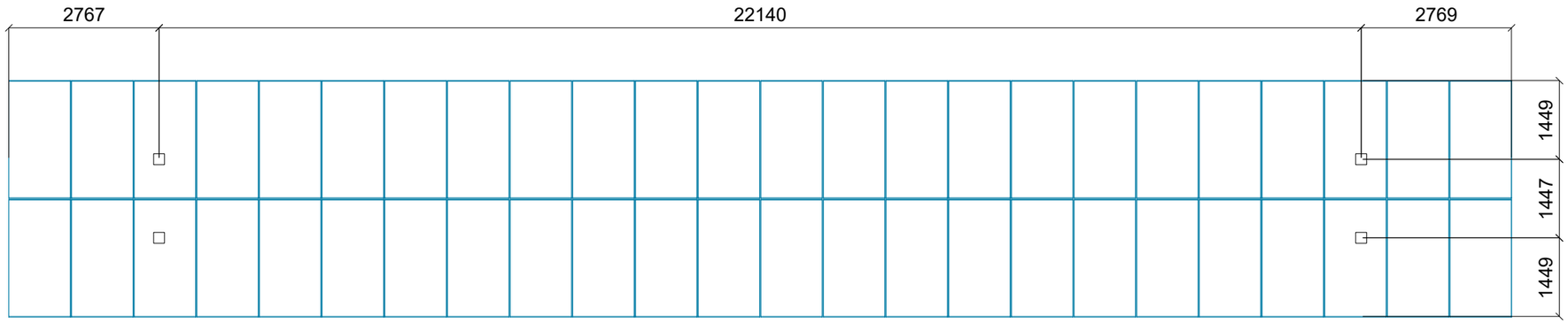
Revisions:

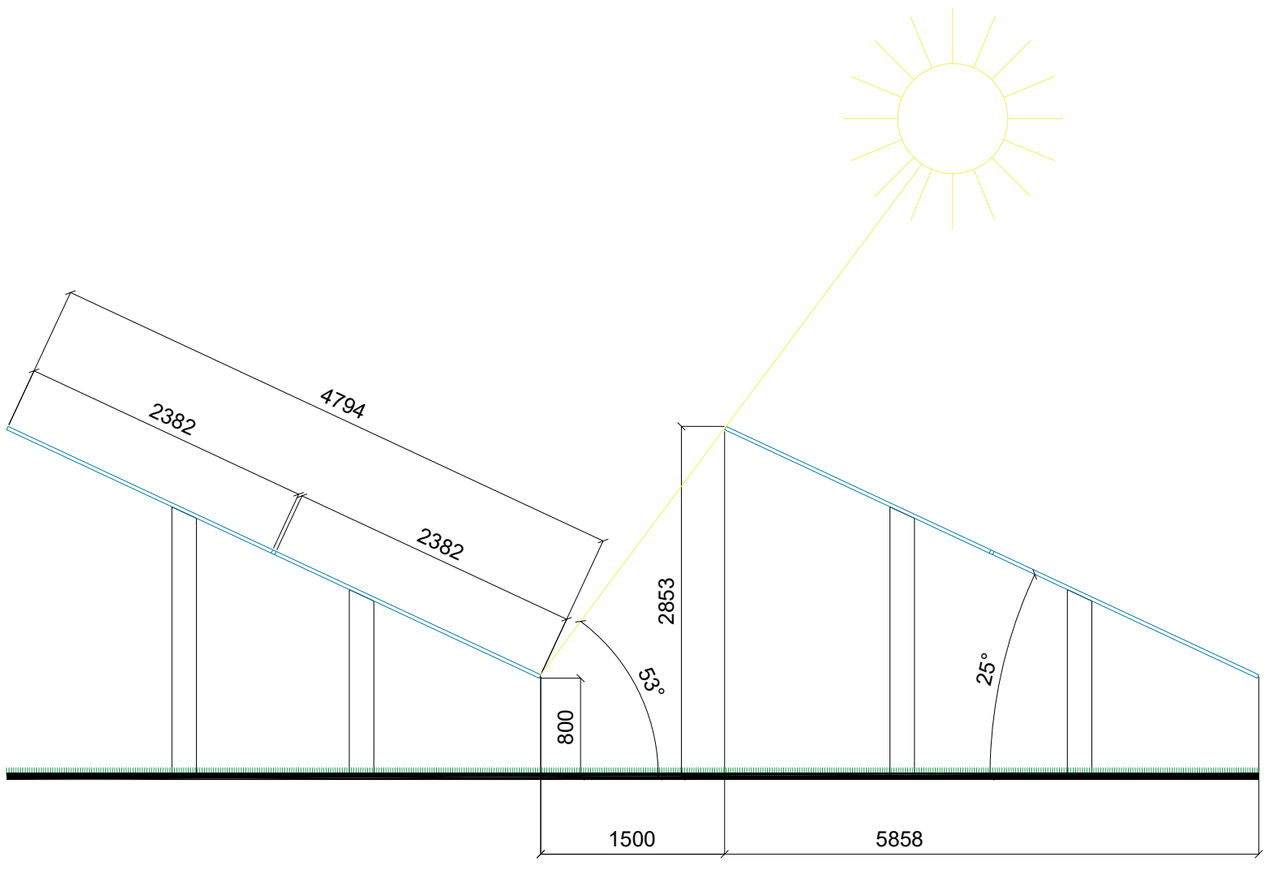
Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	10.10.25	Frame height at lowest point / inter row spacing adjusted, front panel elevation added, project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH

LEGEND:



0 1 2 3 4 5 6m

SCALE 1:100



0 1 2 3m

SCALE 1:50

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

UTU DESIGN LTD

Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD

+44(0) 1684 850019 design@utu.design www.utu.design

Drawing Title:

STANDARD DRAWING

PV ARRAY

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	A.N	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-04***	**03**

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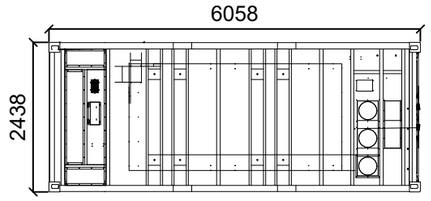
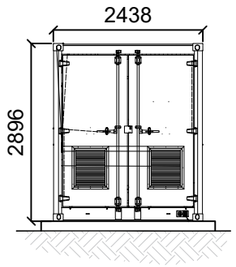
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.25	Titleblock changed	RR	TH

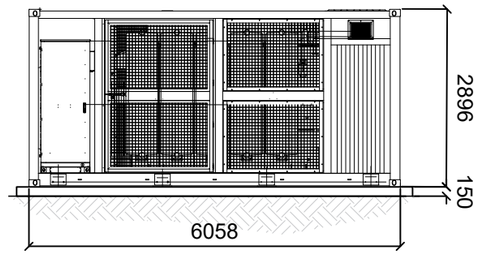
LEGEND:



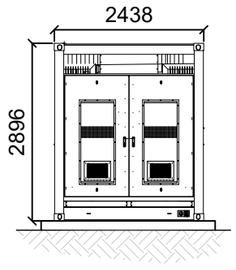
PLAN VIEW



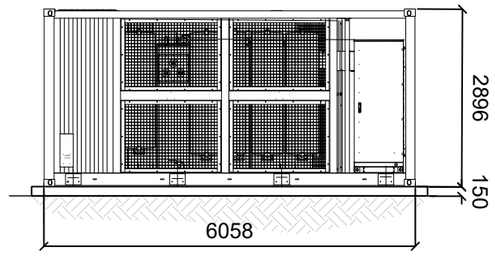
SIDE ELEVATION



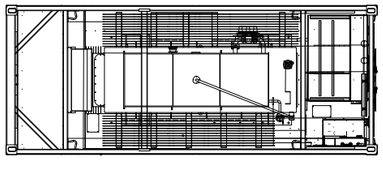
FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION



PLAN VIEW (internal distribution)

0 1 2 3 4 5 6m

SCALE 1:100

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

UTU DESIGN LTD

Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD

+44(0) 1684 850019 design@utu.design www.utu.design

Drawing Title:

STANDARD DRAWING

TRANSFORMER STATION

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	1:100	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-01***	**03**

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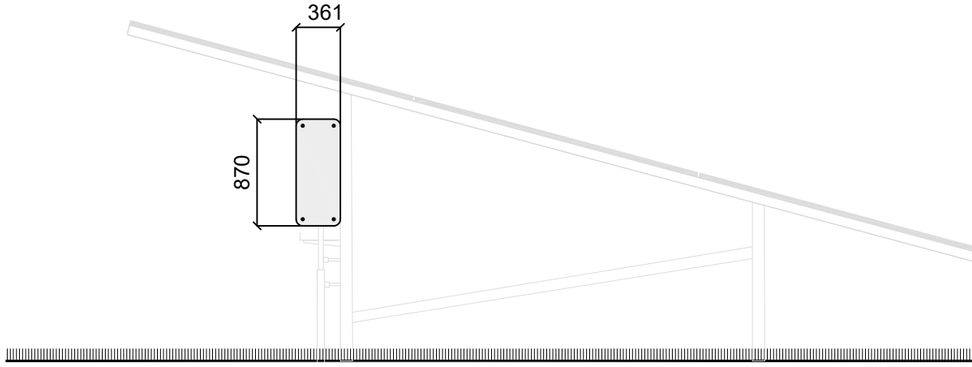
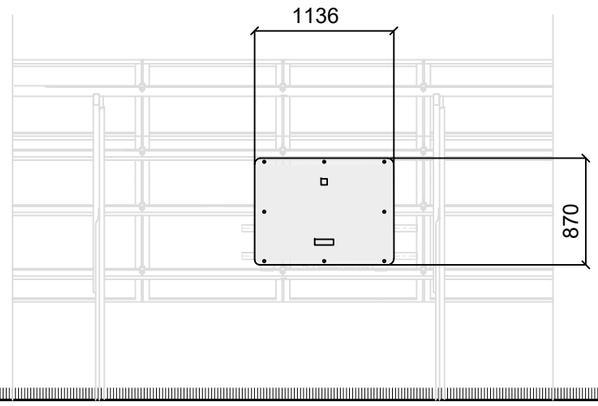
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH

LEGEND:



SIDE ELEVATION



FRONT ELEVATION

0 1 2 3m

SCALE 1:50

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

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Drawing Title:

STANDARD DRAWING

STRING INVERTER

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	1:50	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-02***	**03**

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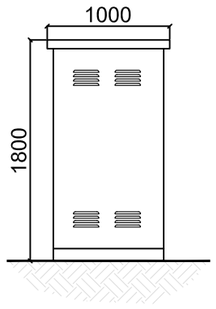
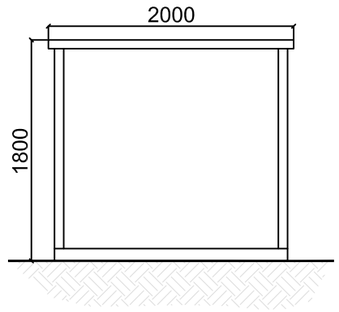
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH
04	26.05.26	Drawing Renamed	MR	TH

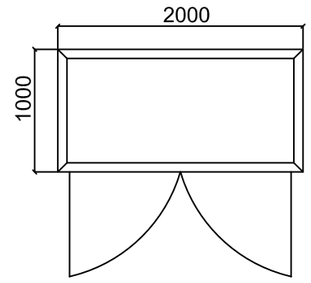
LEGEND:



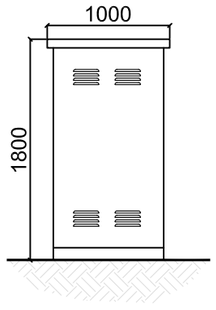
SIDE ELEVATION



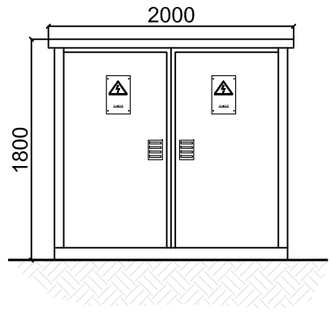
REAR ELEVATION



PLAN



SIDE ELEVATION



FRONT ELEVATION

0 1 2 3m

SCALE 1:50

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

UTU DESIGN LTD

Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD

+44(0) 1684 850019 design@utu.design www.utu.design

Drawing Title:

STANDARD DRAWING

MV STATION

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	1:50	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-03***	**04**

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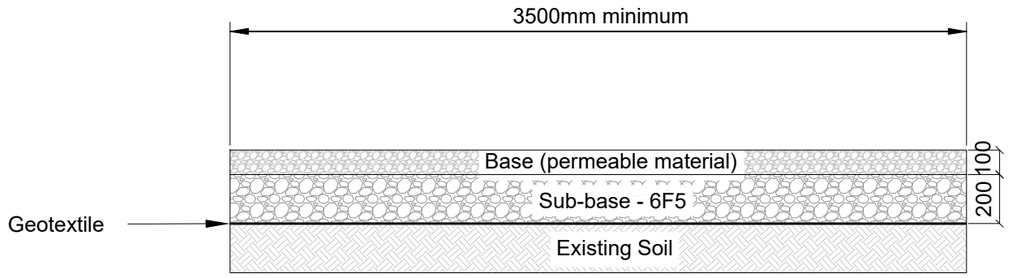
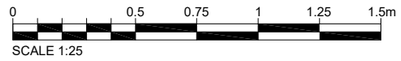
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH
04	15.06.26	Adjusted track width to 3.5m and depth to 200mm	RR	AZ

LEGEND:



SECTION VIEW



SCALE 1:25

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

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Drawing Title:

STANDARD DRAWING

ACCESS TRACK

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	1:25	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-05***	**04**

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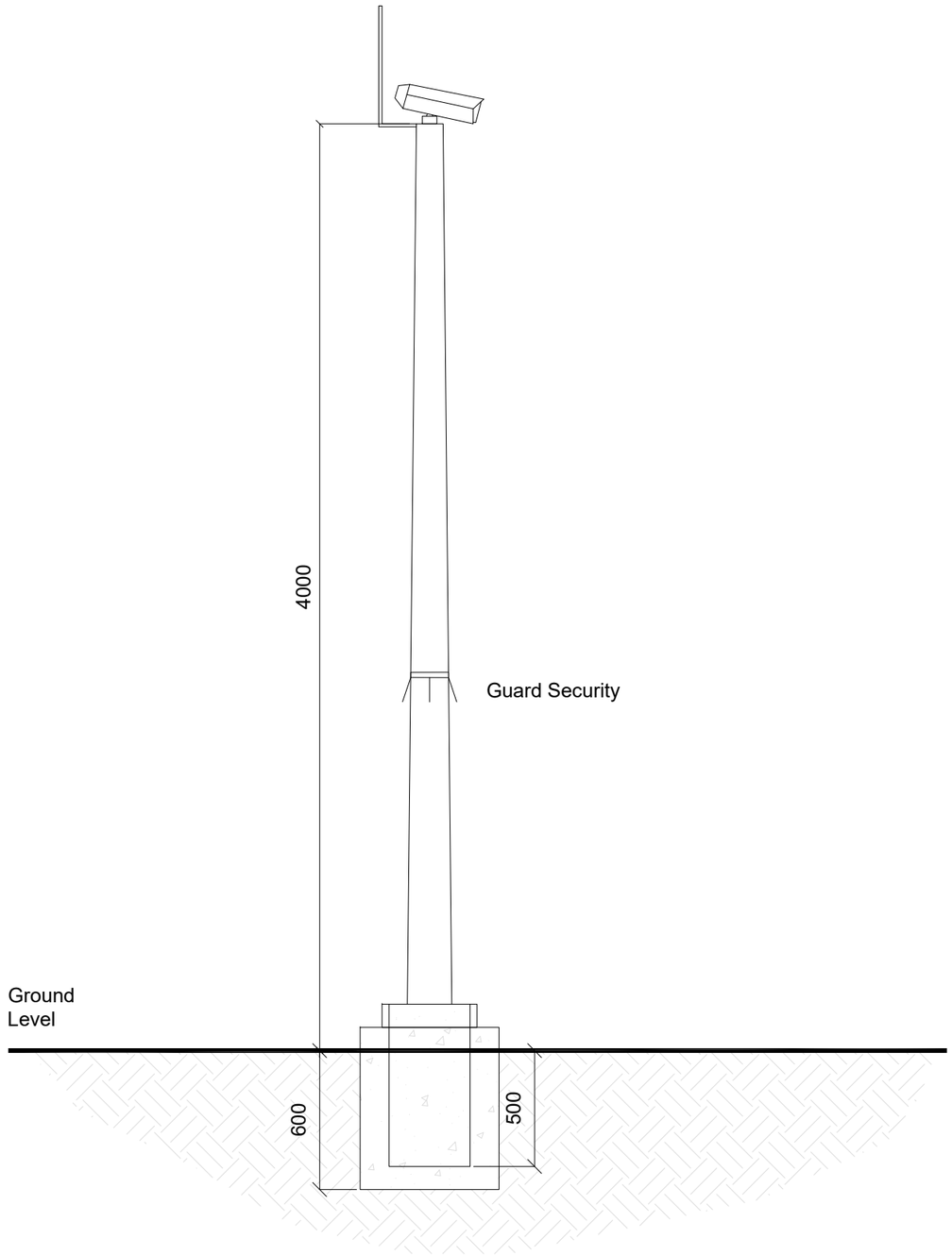
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH

LEGEND:



0 0.5 0.75 1 1.25 1.5m

SCALE 1:25

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com **www.solar.totalenergies.co.uk**

Designer:

utu

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Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD

+44(0) 1684 850019 **design@utu.design** **www.utu.design**

Drawing Title:

STANDARD DRAWING

CCTV CAMERA AND POLE

Drawn	Checked	Drawing Scale	Size
RR	EHF	1:25	A3
Project Code		Drawing Number	Revision
PEG002-		***SD-06***	**03**

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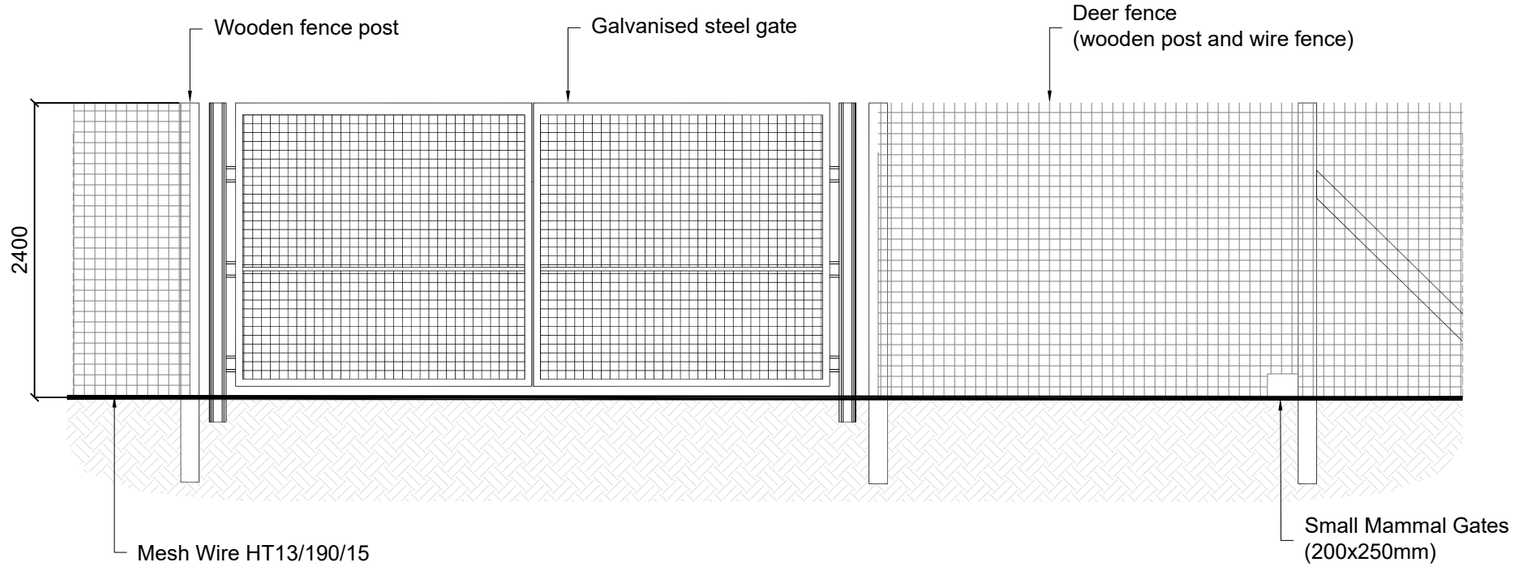
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.25	First Issue	RR	EHF
02	19.09.25	Project name changed	RR	EHF
03	18.05.26	Titleblock changed	RR	TH
04	15.06.26	Removed 'optional' from mammal gate description	RR	AZ

LEGEND:



0 1 2 3m

SCALE 1:50

Status:

PLANNING

Project:

CANDWR SOLAR FARM

LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com **www.solar.totalenergies.co.uk**

Designer:

utu

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+44(0) 1684 850019 **design@utu.design** **www.utu.design**

Drawing Title:

STANDARD DRAWING

PERIMETER FENCE

Drawn:	Checked:	Drawing Scale:	Size:
RR	EHF	1:50	A3

Project Code:	Drawing Number:	Revision:
PEG002-	***SD-07***	**04**

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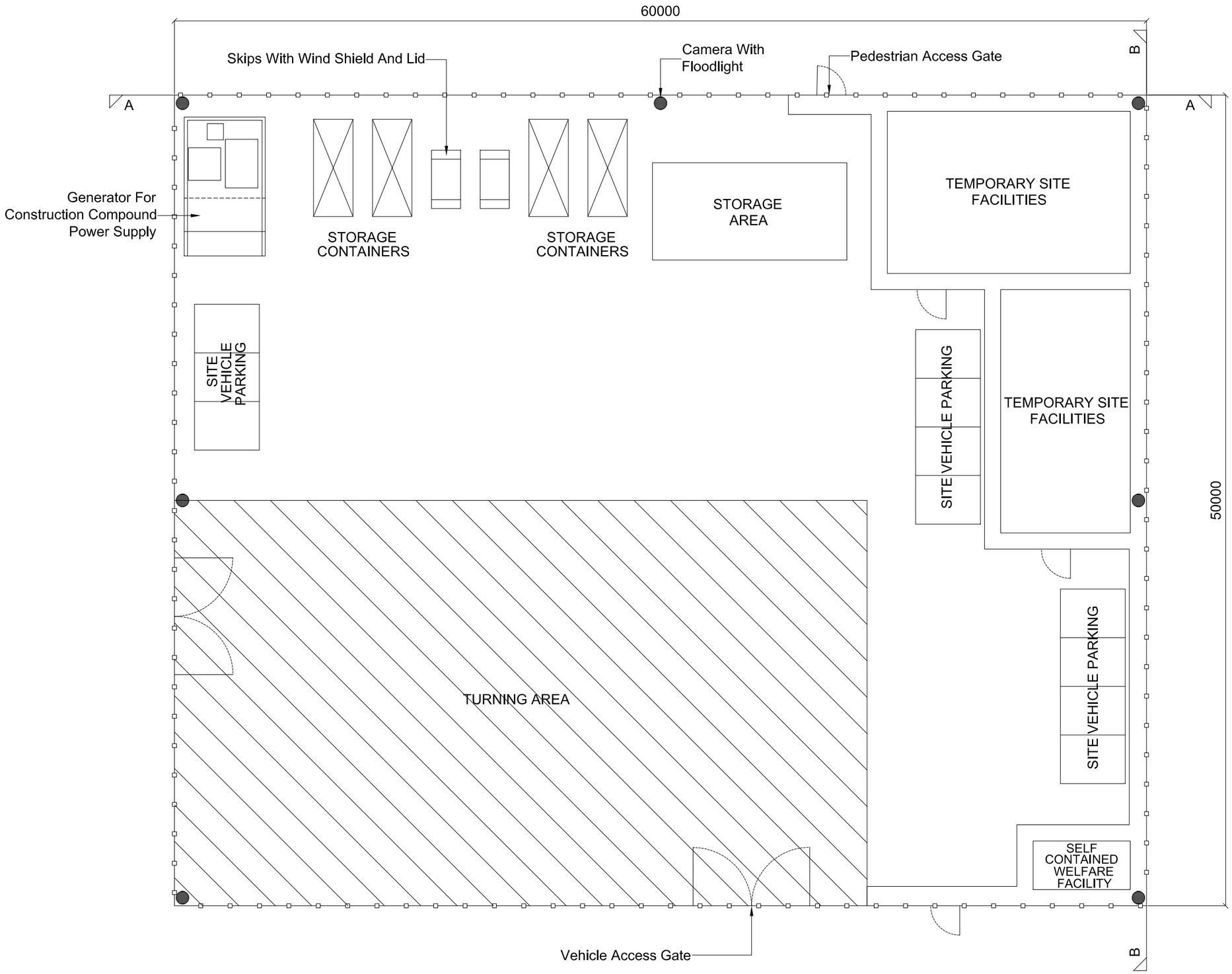
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	06.05.26	First Issue	RR	TH

LEGEND:



0 5 10 15m

SCALE 1:250

Status:

PLANNING

Project:

Candwr Solar Farm

Land at Court Farm, Ponthir, Monmouthshire

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF

solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

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Drawing Title:

STANDARD DRAWING

CONSTRUCTION COMPOUND

Drawn:	Checked:	Drawing Scale:	Size:
RR	TH	1:250	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-08***	**01**

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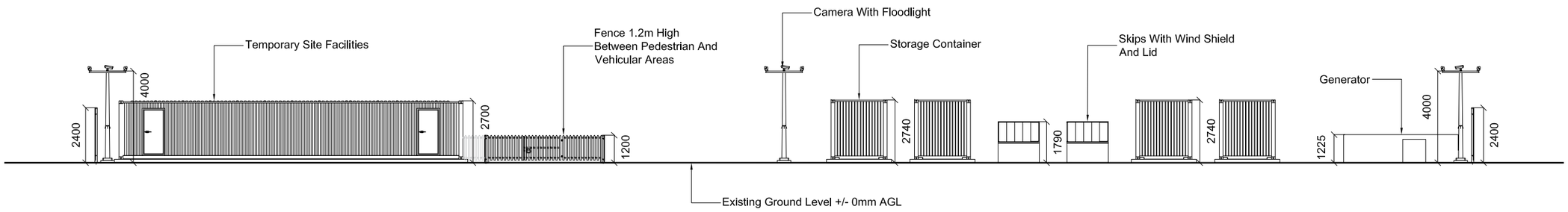
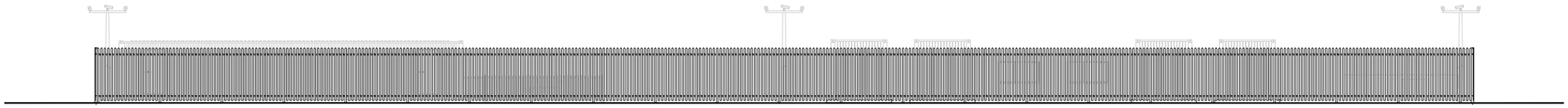
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	08.05.26	First Issue	RR	TH

LEGEND:

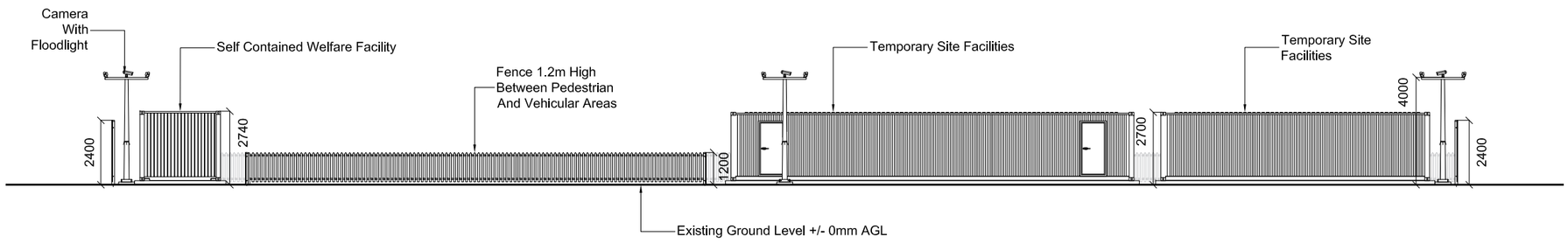


SECTION A-A (UNFENCED)
REFER TO PLAN DRAWING SD-08

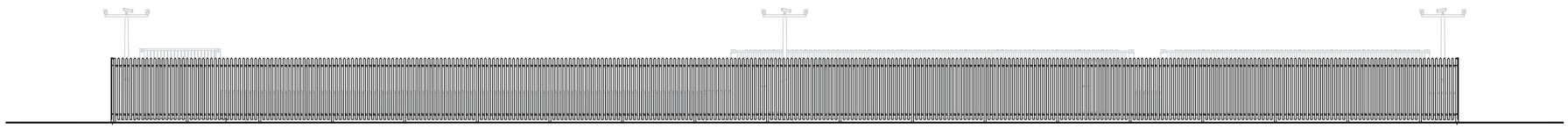


SECTION A-A (FENCED)
REFER TO PLAN DRAWING SD-08

0 2 4 6 8 10 12m
SCALE 1:200



SECTION B-B (UNFENCED)
REFER TO PLAN DRAWING SD-08



SECTION B-B (FENCED)
REFER TO PLAN DRAWING SD-08

0 2 4 6 8 10 12m
SCALE 1:200

Status:
PLANNING

Project:
Candwr Solar Farm
Land at Court Farm, Ponthir, Monmouthshire

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF
solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

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Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD
+44(0) 1684 850019 design@utu.design www.utu.design

Drawing Title:
STANDARD DRAWING
CONSTRUCTION COMPOUND SECTIONS

Drawn:	Checked:	Drawing Scale:	Size:
RR	TH	1:200	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-09***	**01**

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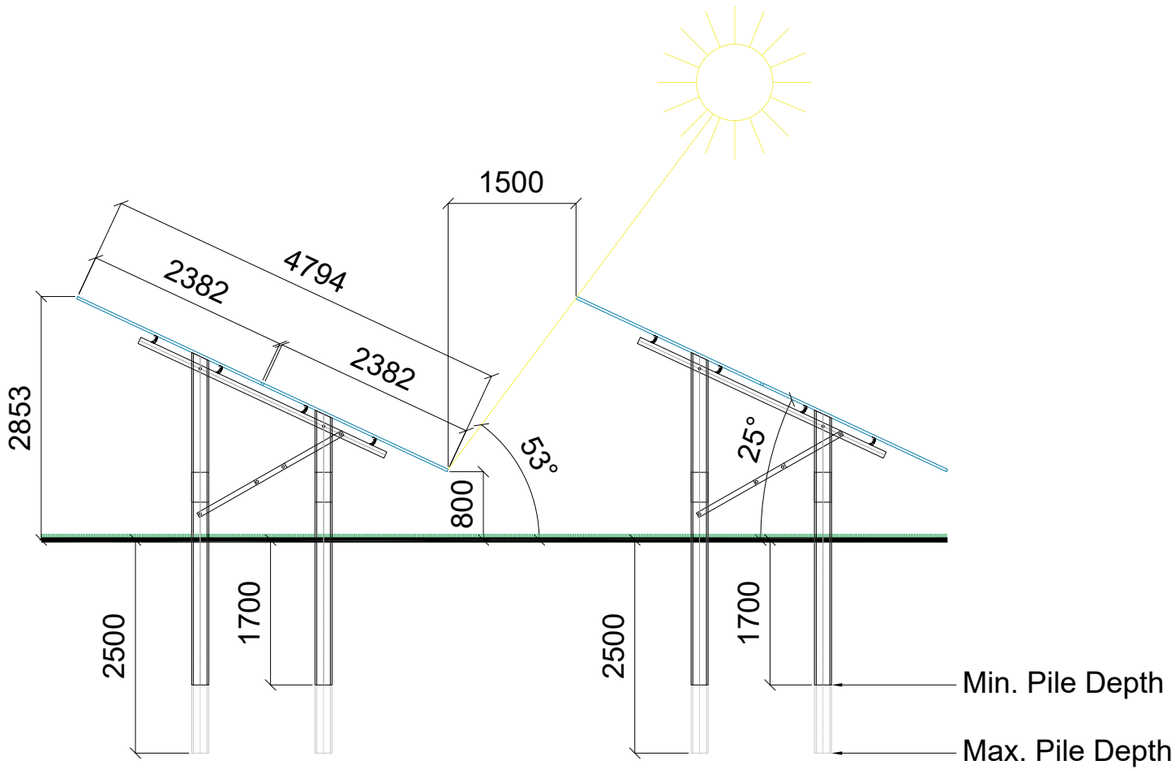
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	20.05.26	First Issue	RR	TH

LEGEND:



0 1 2 3 4 5 6m

SCALE 1:100

Status:

PLANNING

Project:

CANDWR SOLAR FARM
LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF
solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

utu

UTU DESIGN LTD
Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD
+44(0) 1684 850019 design@utu.design www.utu.design

Drawing Title:

STANDARD DRAWING
INDICATIVE PILE

Drawn:	Checked:	Drawing Scale:	Size:
RR	TH	1:100	A3
Project Code:		Drawing Number:	Revision:
PEG002-		***SD-10***	**01**

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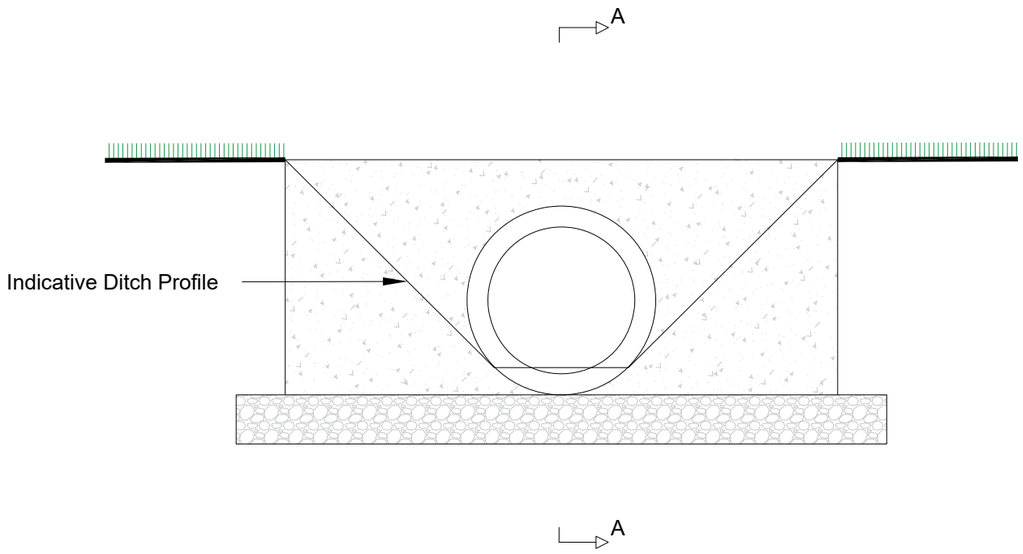
This drawing is to be submitted for planning purposes only. All dimensions are to be confirmed on site prior to commencement of work

Revisions:

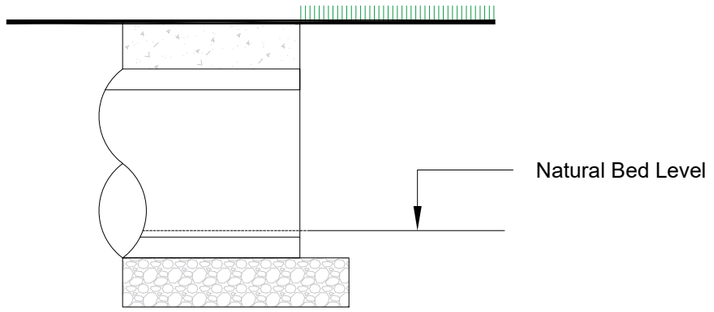
Revision	Date	Revision Notes	Drawn	Inspected
01	27.05.26	First Issue	RR	TH

Indicative Drawing Not To Scale



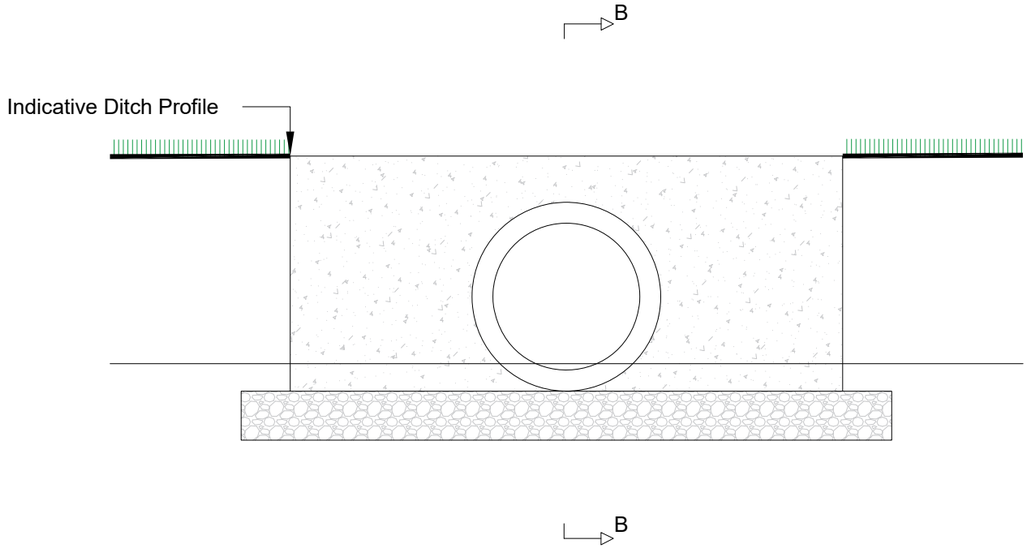
FRONT VIEW

Indicative Drawing Not To Scale



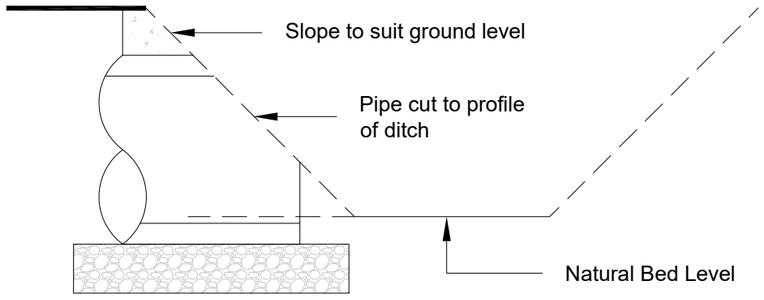
SECTION A-A

Indicative Drawing Not To Scale

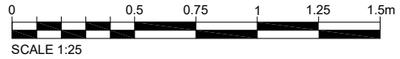


FRONT VIEW

Indicative Drawing Not To Scale



SECTION B-B



SCALE 1:25

Status:
PLANNING

Project:
INDICATIVE STOCK CULVERT DRAWING

Client:

TotalEnergies

19th Floor, 10 Upper Bank Street, Canary Wharf, London, E14 5BF
solaruk@totalenergies.com www.solar.totalenergies.co.uk

Designer:

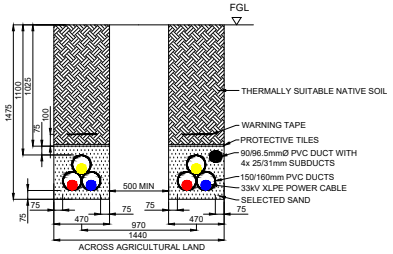
utu

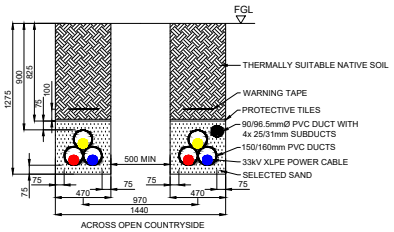
UTU DESIGN LTD
Unit B2, The Courtyard, Severn Drive, Tewkesbury Business Park, GL20 8GD
+44(0) 1684 850019 design@utu.design www.utu.design

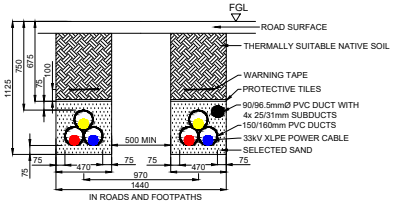
Drawing Title:
INDICATIVE CULVERT

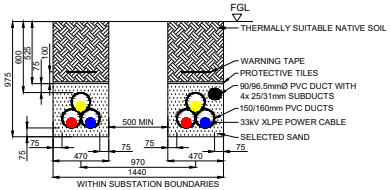
Drawn:	Checked:	Drawing Scale:	Size:
RR	TH	1:25	A3
Project Code:		Drawing Number:	Revision:
TEN-		***SD-01***	**01**

TYPICAL TRENCH CROSS SECTIONS - DUCTED INSTALLATION

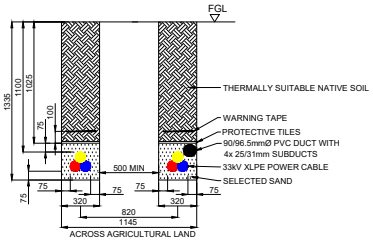


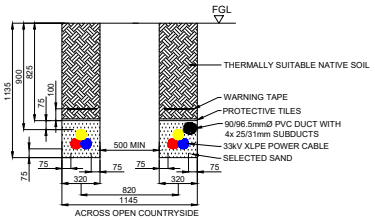


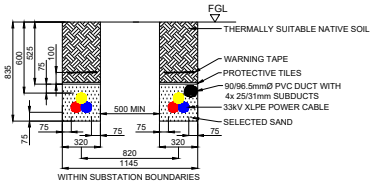




TYPICAL TRENCH CROSS SECTIONS - DIRECT BURIED INSTALLATION







N.T.S. IF PRINTED FROM PDF

132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DST	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSHT	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSV	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSHZ	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
0	PLANNING ISSUE	TB	TB	LGOS	25.10.25

FuturEnergySystems

Project Title
HEDGEHOG GROVE 132/33kV SOLAR PV

Title
TYPICAL CABLE CROSS SECTION 33kV 2-CIRCUIT

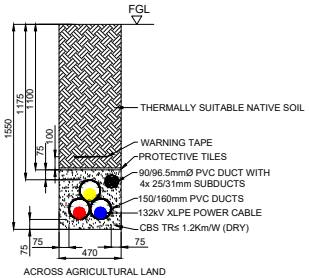
Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.10.25

TotalEnergies

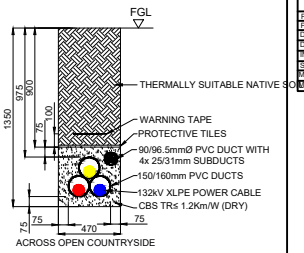
Drawing No
TYPICAL 001-02 33kV-2 CIRCUIT

Status	Scale	Rev
PRELIMINARY	NTS	1

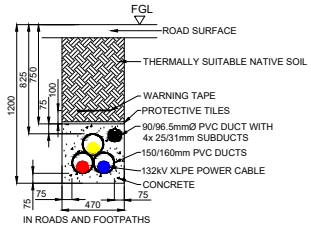
TYPICAL TRENCH CROSS SECTIONS - DUCTED INSTALLATION



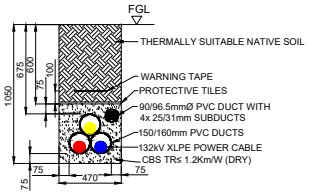
ACROSS AGRICULTURAL LAND



ACROSS OPEN COUNTRYSIDE

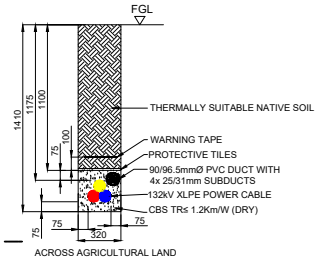


IN ROADS AND FOOTPATHS

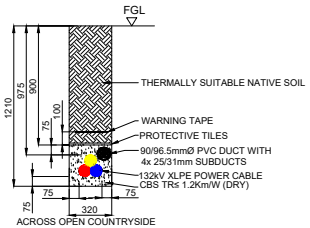


WITHIN SUBSTATION BOUNDARIES

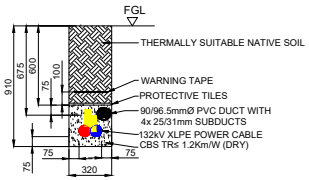
TYPICAL TRENCH CROSS SECTIONS - DIRECT BURIED INSTALLATION



ACROSS AGRICULTURAL LAND



ACROSS OPEN COUNTRYSIDE



WITHIN SUBSTATION BOUNDARIES

N.T.S. IF PRINTED FROM PDF

132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
DEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
DEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
0	PLANNING ISSUE	TB	TB	LGOS	25.10.25

FuturEnergySystems

Project Title

HEDGEHOG GROVE 132/33kV SOLAR PV

Title

TYPICAL CABLE CROSS SECTION 132kV 1-CIRCUIT

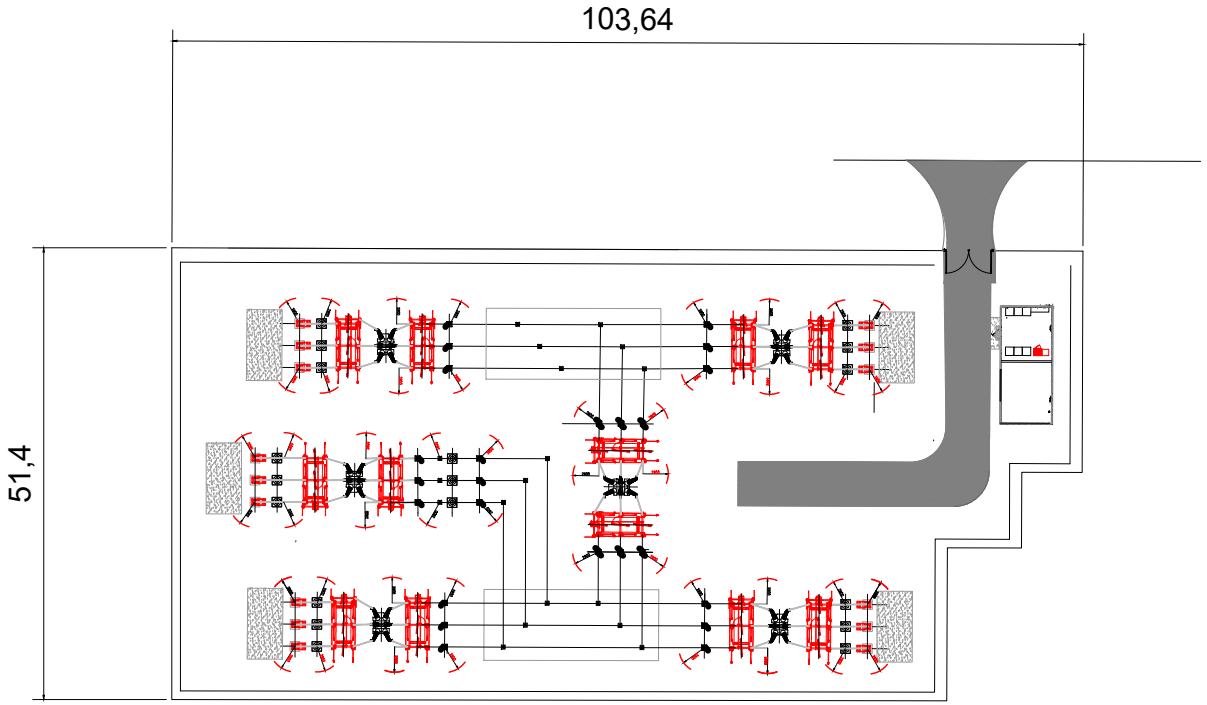
Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.10.25

TotalEnergies

Drawing No

TYPICAL 001-02 132kV-1 CIRCUIT

Status	Scale	Rev
PRELIMINARY	NTS	1



132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

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PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
3	PLANNING ISSUE- DESIGN CHANGE	TB	TB	LGOS	25.02.25
2	PLANNING ISSUE- DESIGN CHANGE	TB	TB	LGOS	25.10.25
1	PLANNING ISSUE- LAYOUT CHANGE	TB	TB	LGOS	15.10.25
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergySystems
FES

Project Title

COURTFARM 132/33/11kV SOLAR PV

Title

COURTFARM 132KV OHL AIS LOOP-IN SWITCHYARD SUBSTATION LAYOUT - FOR PLANNING ONLY

Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.02.26

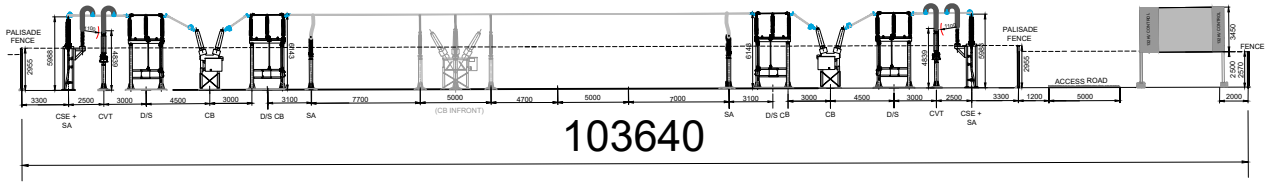
TotalEnergies

Drawing No
TE@CRF-14.13-PE-GA-AIS-019

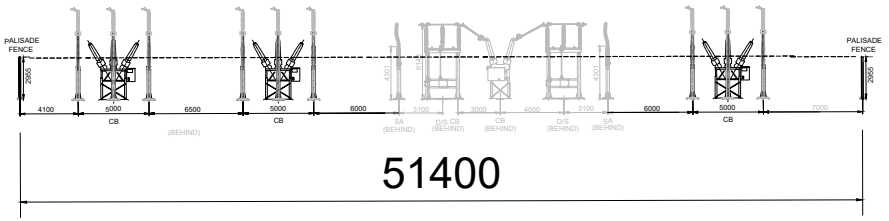
Status	Scale	Rev
PRELIMINARY	NTS	5

N.T.S. IF PRINTED FROM PDF

ELEVATION-A



ELEVATION-B



N.T.S. IF PRINTED FROM PDF

132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
INSIDE OF FENCE CLEARANCE	1.5
INSIDE OF FENCE CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSP1	2.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSP1	3.1
INSULATION HEIGHT (PROTECTION) ACCESS	2.4
INSULATION HEIGHT	2.4
DEVICE DISTANCE	2.5
DEVICE DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSP2	3.5
DEVICE DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSP2	4.6

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergSystems

Project Title
COURTFARM 132/33/11kV SOLAR PV

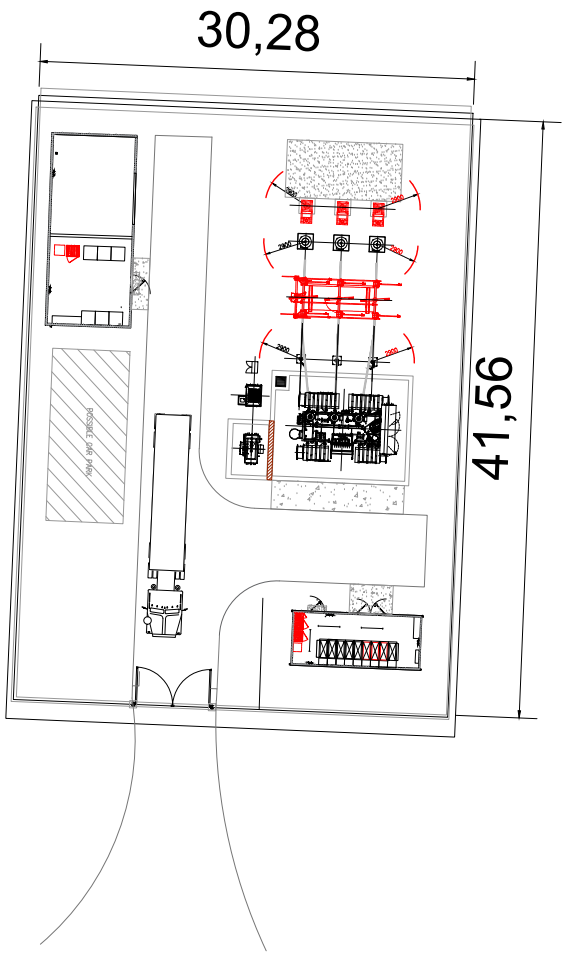
Title
COURTFARM 132KV OHL AIS LOOP-IN SWITCHYARD SUBSTATION ELEVATION - FOR PLANNING ONLY

Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	06.10.25

TotalEnergies

Drawing No
COURTFARM 132KV ELEVATION REV1

Status	Scale	Rev
PRELIMINARY	NTS	1



132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
2	PLANNING ISSUE - DESIGN CHANGE	TB	TB	LGOS	25.02.25
1	PLANNING ISSUE - LAYOUT CHANGE	TB	TB	LGOS	15.10.25
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergySystems
FES

Project Title

COURTFARM 132/33/11kV SOLAR PV

Title

COURTFARM 132/33KV
CUSTOMER SUBSTATION
LAYOUT - FOR PLANNING ONLY

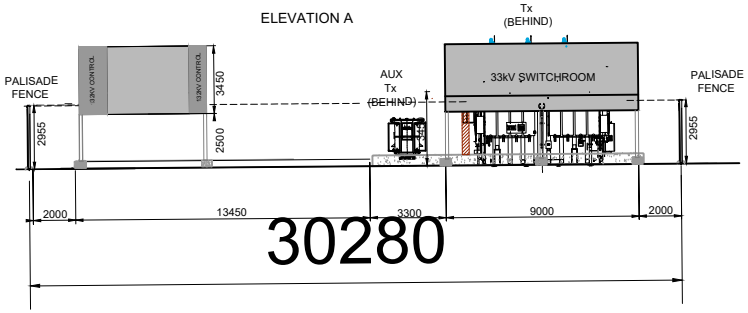
Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.02.25

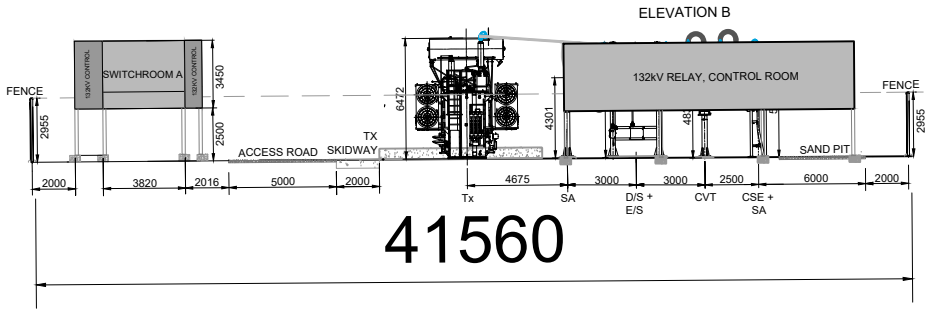
TotalEnergies

Drawing No
TE@CRF-14.13-PE-GA-33-003

Status	Scale	Rev
PRELIMINARY	NTS	3

N.T.S. IF PRINTED FROM PDF





N.T.S. IF PRINTED FROM PDF

132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
2	PLANNING ISSUE- DESIGN CHANGE	TB	TB	LGOS	25.02.25
1	PLANNING ISSUE- LAYOUT CHANGE	TB	TB	LGOS	15.10.25
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergySystems

Project Title
COURTFARM 132/33/11kV SOLAR PV

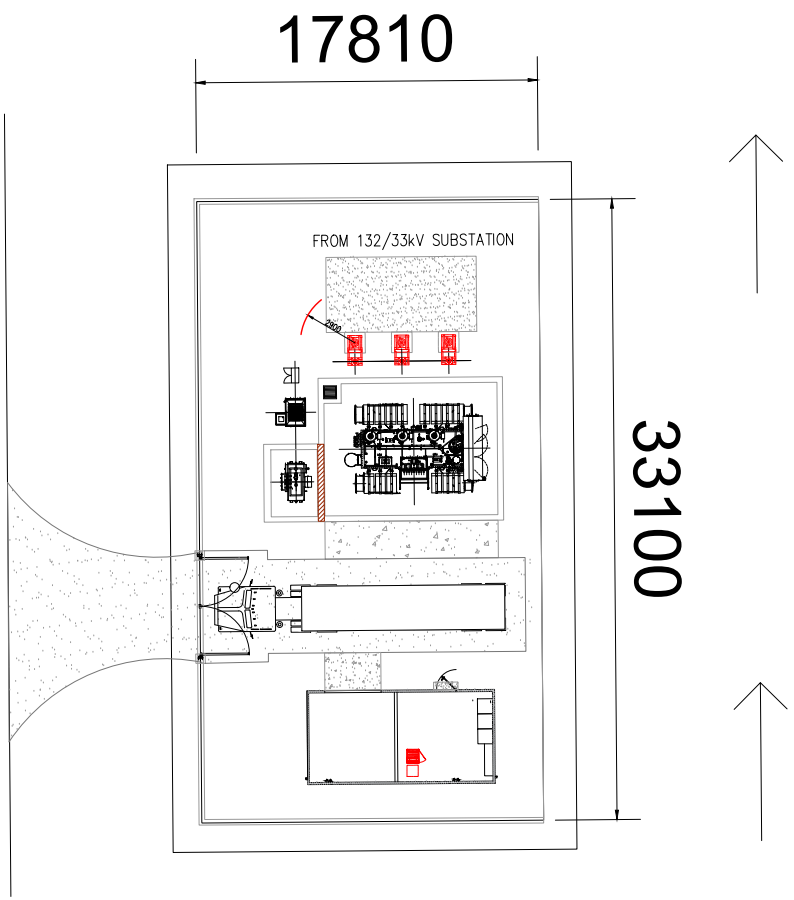
Title
COURTFARM 132/33KV CUSTOMER SUBSTATION ELEVATION - FOR PLANNING ONLY

Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.02.25

TotalEnergies

Drawing No
TE@CRF-14.13-PE-GA-33-004

Status	Scale	Rev
PRELIMINARY	NTS	4



132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
2	PLANNING ISSUE- DESIGN CHANGE	TB	TB	LGOS	25.02.25
1	PLANNING ISSUE- LAYOUT CHANGE	TB	TB	LGOS	15.10.25
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergySystems
FES

Project Title
COURTFARM 132/33/11kV SOLAR PV

Title
COURTFARM 33/11kV CUSTOMER SUBSTATION ELEVATION - FOR PLANNING ONLY

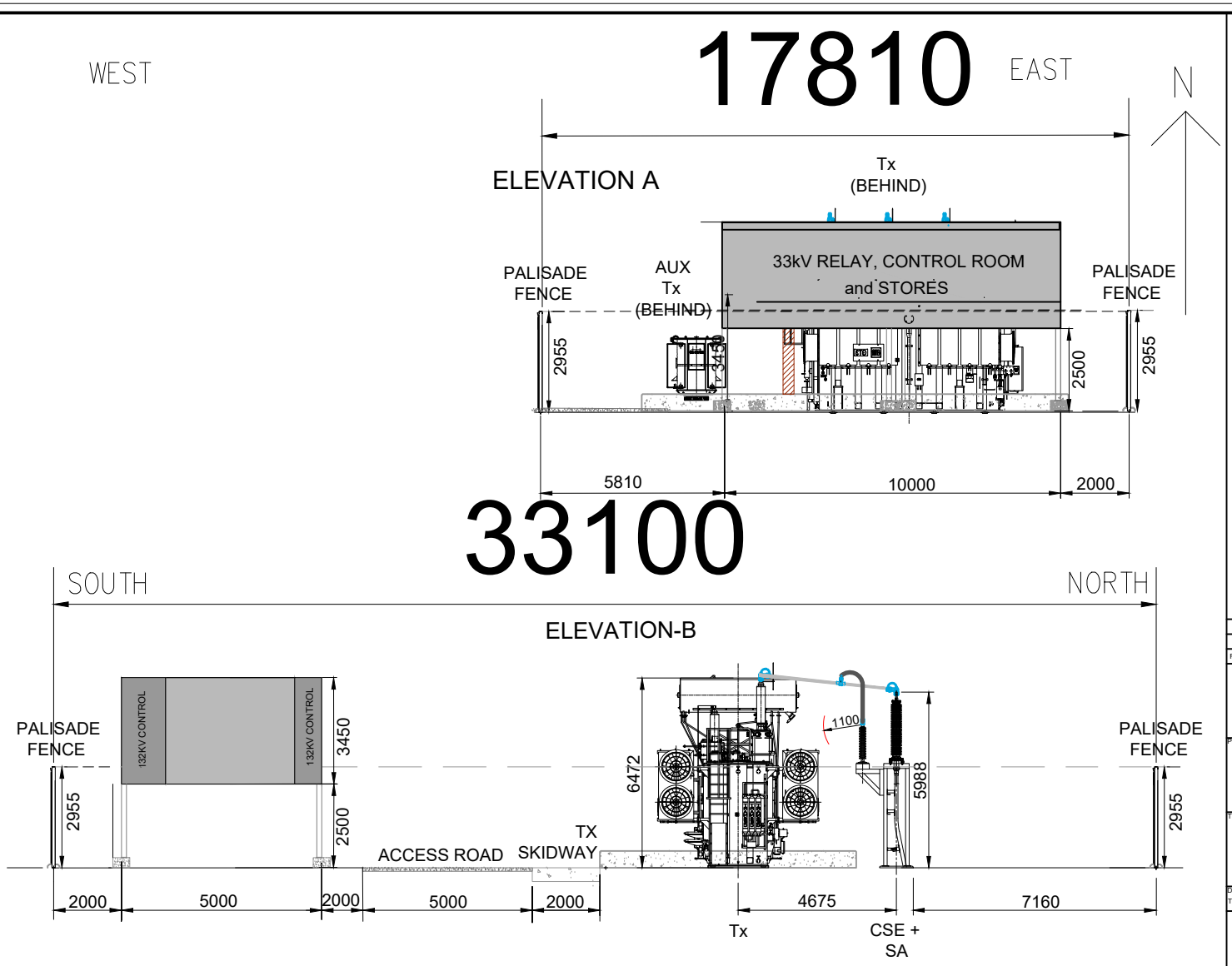
Drawn	Designer	Checked	Date Approved
TB	TB	LGOS	25.02.25

TotalEnergies

Drawing No
TE@CRF-14.13-PE-GA-11-003

Status	Scale	Rev
PRELIMINARY	NTS	3

N.T.S. IF PRINTED FROM PDF



132kV MINIMUM ELECTRICAL CLEARANCES	
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	1.6
PHASE TO EARTH CLEARANCE	1.5
DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	3.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	3.1
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.0
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS2	5.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.5

ABBREVIATION:

AUX TX	AUXILIARY TRANSFORMER
CB	CIRCUIT BREAKER
CSE	CABLE SEALING END
CVT	CAPACITIVE VOLTAGE TRANSFORMER
D/S	DISCONNECTOR
E/S	EARTH SWITCH
MK	MARSHALLING KIOSK
PA	PANTOGRAPH
PI	POST INSULATOR
SA	SURGE ARRESTER
TX	TRANSFORMER

TO BE VIEWED IN CONJUNCTION WITH LAYOUT DRAWING WEST BURTON 2 LAYOUT.

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

THE PROPOSED BAY BUSBAR SIZE IS 90mm x 7mm. THE BUSBAR SIZE SHALL BE CONFIRMED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR SITE USE

Rev	REVISION	Drawn	Design	Appd	Date
2	PLANNING ISSUE - DESIGN CHANGE	TB	TB	LGOS	25.10.25
1	PLANNING ISSUE- LAYOUT CHANGE	TB	TB	LGOS	15.10.25
0	PLANNING ISSUE	TB	TB	LGOS	06.10.25

FuturEnergySystems

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Drawing No
COURTFARM 33/11KV ELEVATION REV2

Status	Scale	Rev
PRELIMINARY	NTS	2

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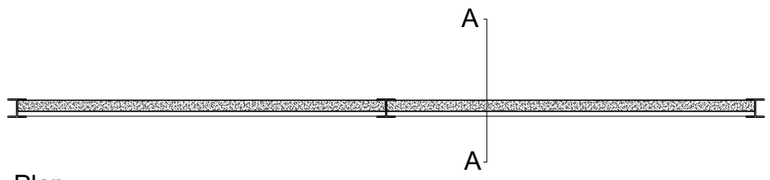
This drawing is to be submitted for planning purposes only. All dimensions are to be confirmed on site prior to commencement of work

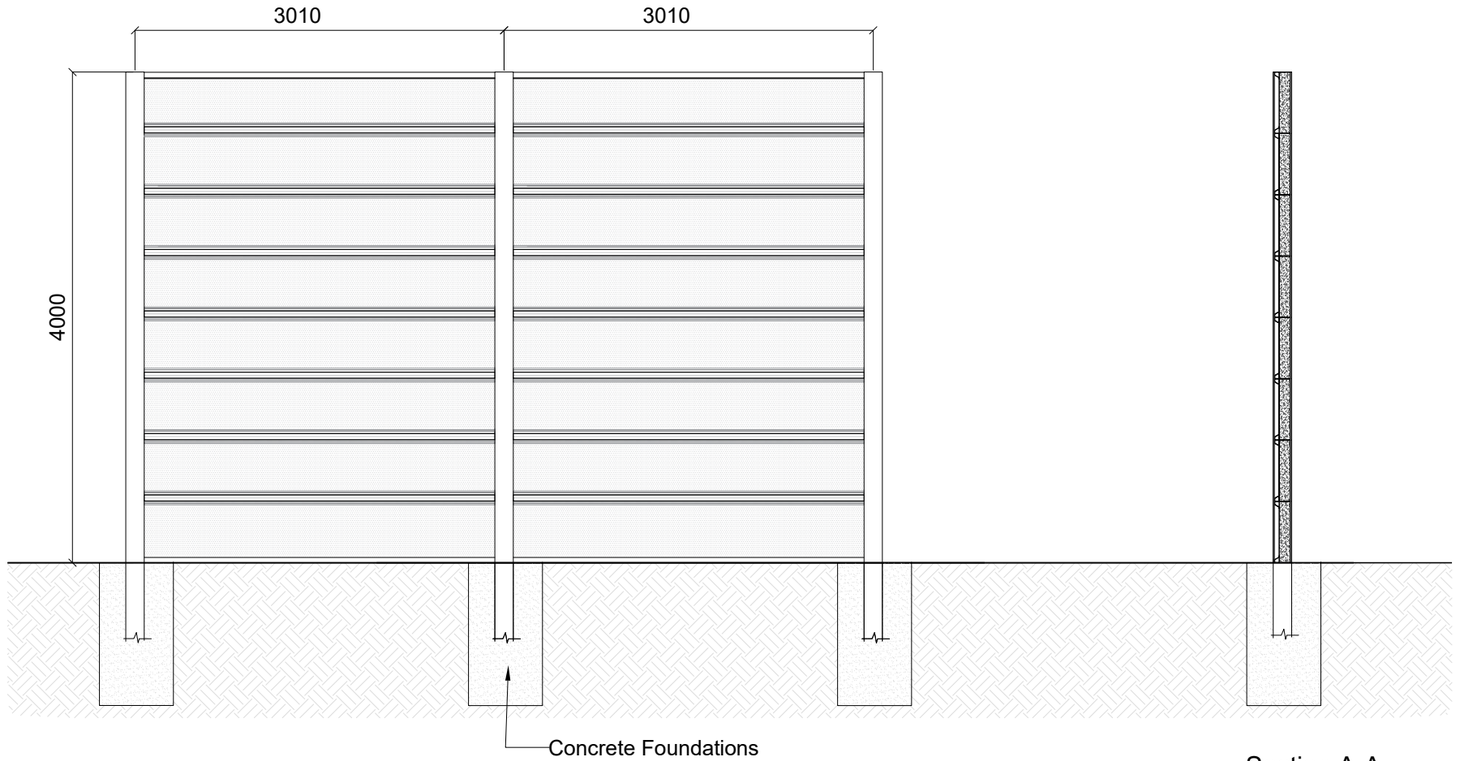
Revisions:

Revision	Date	Revision Notes	Drawn	Inspected
01	16.06.26	First Issue	WC	AZ

LEGEND:



Plan



Elevation

Section A-A

0 1 2 3m

SCALE 1:50

Status:

PLANNING

Project:

CANDWR SOLAR FARM
LAND AT COURT FARM, PONTHIR, MONMOUTHSHIRE

Client:

TotalEnergies

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Drawing Title:

STANDARD DRAWING
ACOUSTIC BARRIER

Drawn:	Checked:	Drawing Scale:	Size:
WC	AZ	1:50	A3
Project Code:		Drawing Number:	Revision:
PEG-002		***SD-12***	**01**