

EAST STOUR SOLAR FARM

SEI Volume 3 - SEI Figures

PREPARED ON BEHALF OF



January 2024



engena

EAST STOUR SOLAR FARM - SEI VOLUME 3 - SEI FIGURES

PREFACE

This Supplementary Environmental Information (SEI) Figures Volume forms the third part of a four volume SEI which provides additional information addressing points raised by consultees subsequent to the submission of the East Stour Solar Farm planning application (Ashford Borough Council reference 22/00668/AS). This information supplements the findings of the Environmental Impact Assessment (EIA), the ES of which accompanied the planning application. The volumes of the complete SEI document are:

Document	Title	Contents
SEI Volume 1	SEI Non-Technical Summary	Summarises the key contents of the SEI for the non-technical reader
SEI Volume 2A	SEI Written Statement	Presents the full SEI text
SEI Volume 2B	SEI Appendices	Presents the appendices referred to in the SEI Written Statement
SEI Volume 3	SEI Figures	Presents updated and additional figures referred to in the SEI Written Statement
SEI Volume 4	Visualisations	Presents additional visualisations referred to within the SEI Written Statement

A complete set of application and SEI documents can be downloaded from the project website, as detailed in the box below.

Printed SEI copies can be purchased at a cost of £200+VAT or digital versions, either as a download or on CD-ROM free of charge.

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Creeting St Mary, IP6 8LL.

info@engena.co.uk

or download from:

<https://www.edf-re.uk/renewables/east-stour>

The Developer may also be contacted at:

east.stour@edf-re.uk or 0800 0194 576

SEI FIGURE LIST

Introduction

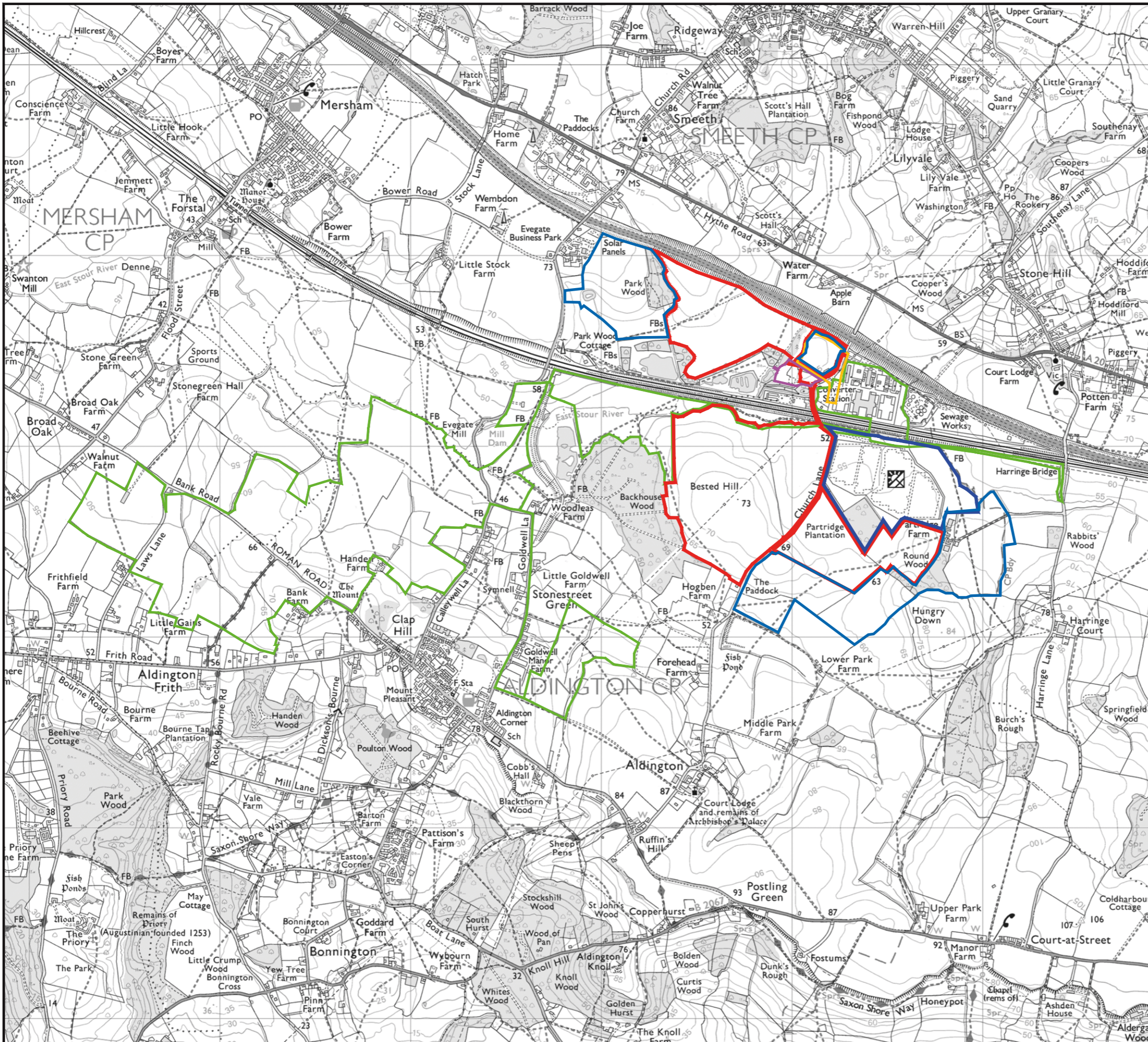
- 1.1 - Cumulative Developments
- 1.2 - Proposed Site Layout (North) REV M [replaces ES Figure 1.2 north]
- 1.2 - Proposed Site Layout (South) REV M [replaces ES Figure 1.2 south]
- 1.3 - Proposed Site Layout (Aerial Image Underlay - North) [replaces ES Figure 1.3 north]
- 1.3 - Proposed Site Layout (Aerial Image Underlay - South) [replaces ES Figure 1.3 south]

Landscape and Visual Impact Assessment

ES Figures referred to in the SEI LVIA Chapter have been updated to include for the amended red line boundary. These are provided as updates rather than new information and presented maintaining the ES Figure numbers as SEI Figures 11.1 to 11.9 'Rev A'. Additional SEI LVIA figures then follow on the numbering nomenclature.

- 11.1 Rev A - 5km ZTV
- 11.2 Rev A - Landscape Character Plan - Kent County LCAs
- 11.3 Rev A - Landscape Character Plan - Ashford
- 11.4 Rev A - Landscape Character within Kent Downs AONB
- 11.5 Rev A - Landscape Designations
- 11.6 Rev A - Recreation Routes and Visitor Attractions
- 11.7 Rev A - Public Rights of Way
- 11.8 Rev A - Cumulative ZTV with Sellindge Solar Farm
- 11.9 Rev A - Mitigation Proposals Plan
- 11.10 - Layout Progression
- 11.11 - Viewpoint 6 (Layout Refinement)
- 11.12 - Viewpoint 7 (Layout Refinement)
- 11.13 - Viewpoint 8 (Layout Refinement)
- 11.14 - Cross Section Locations
- 11.15 - Cross Section A
- 11.16 - Cross Section B
- 11.17 - Cross Section C
- 11.18 - Cross Section D

- 11.19 - Cross Section E
- 11.20 - Cross Section F
- 11.21 - Cross Section G
- 11.22 - Cross Section H
- 11.23 - Cross Section I
- 11.24 - Cross Section J
- 11.25 - East Stour SEI CZTV Development Scenario 2
- 11.26 - East Stour SEI CZTV Development Scenario 3



Project: **East Stour Solar Farm**

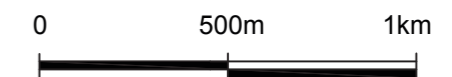


- Key:**
- East Stour Solar Farm application boundary
 - Sellidge Solar Farm boundary
 - Sellidge BESS boundary
 - Sellidge Grid Stability Facility boundary
 - Stonestreet Green Solar boundary
 - Red line landowner's immediately adjoining landholding

Notes:

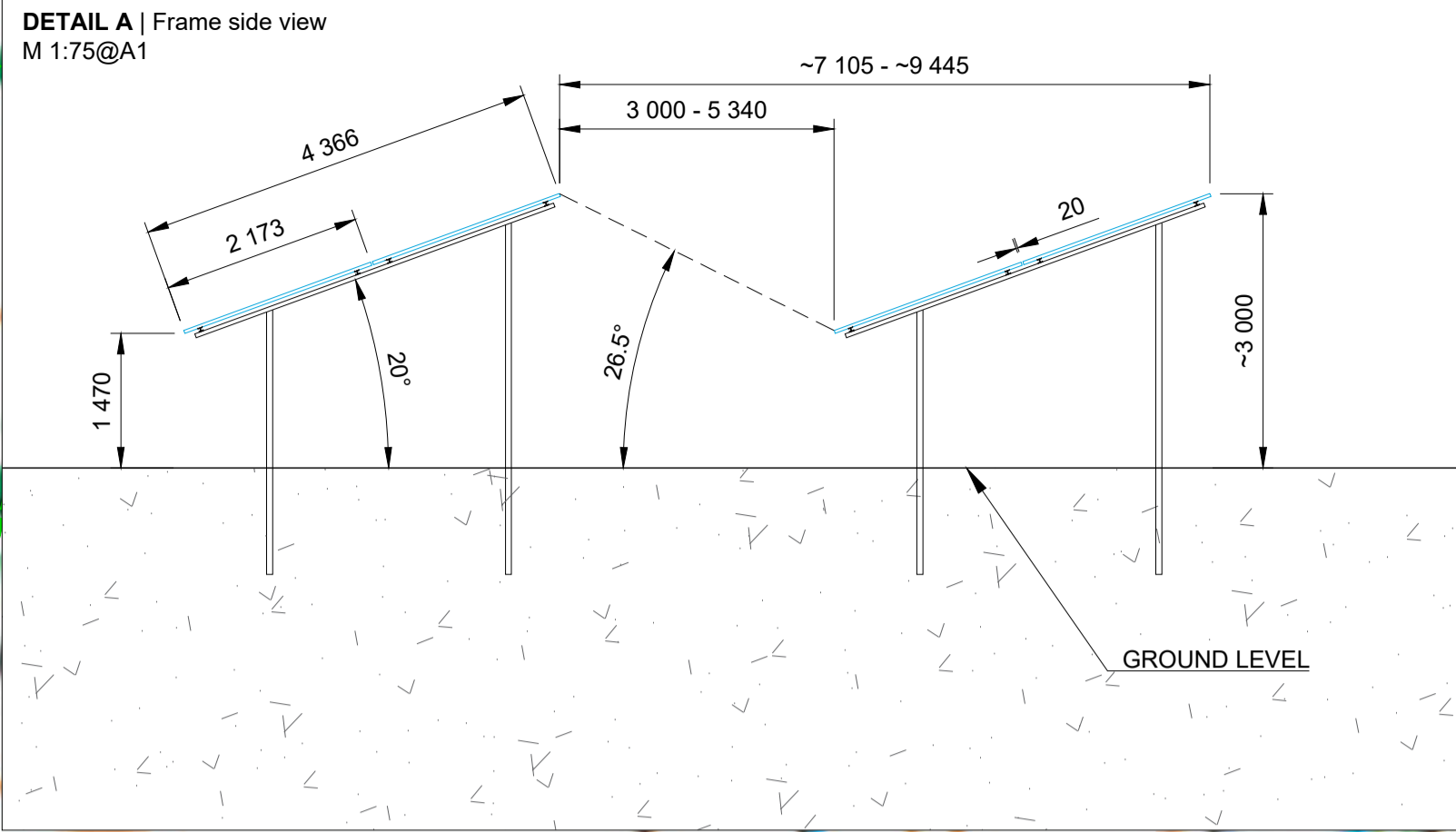
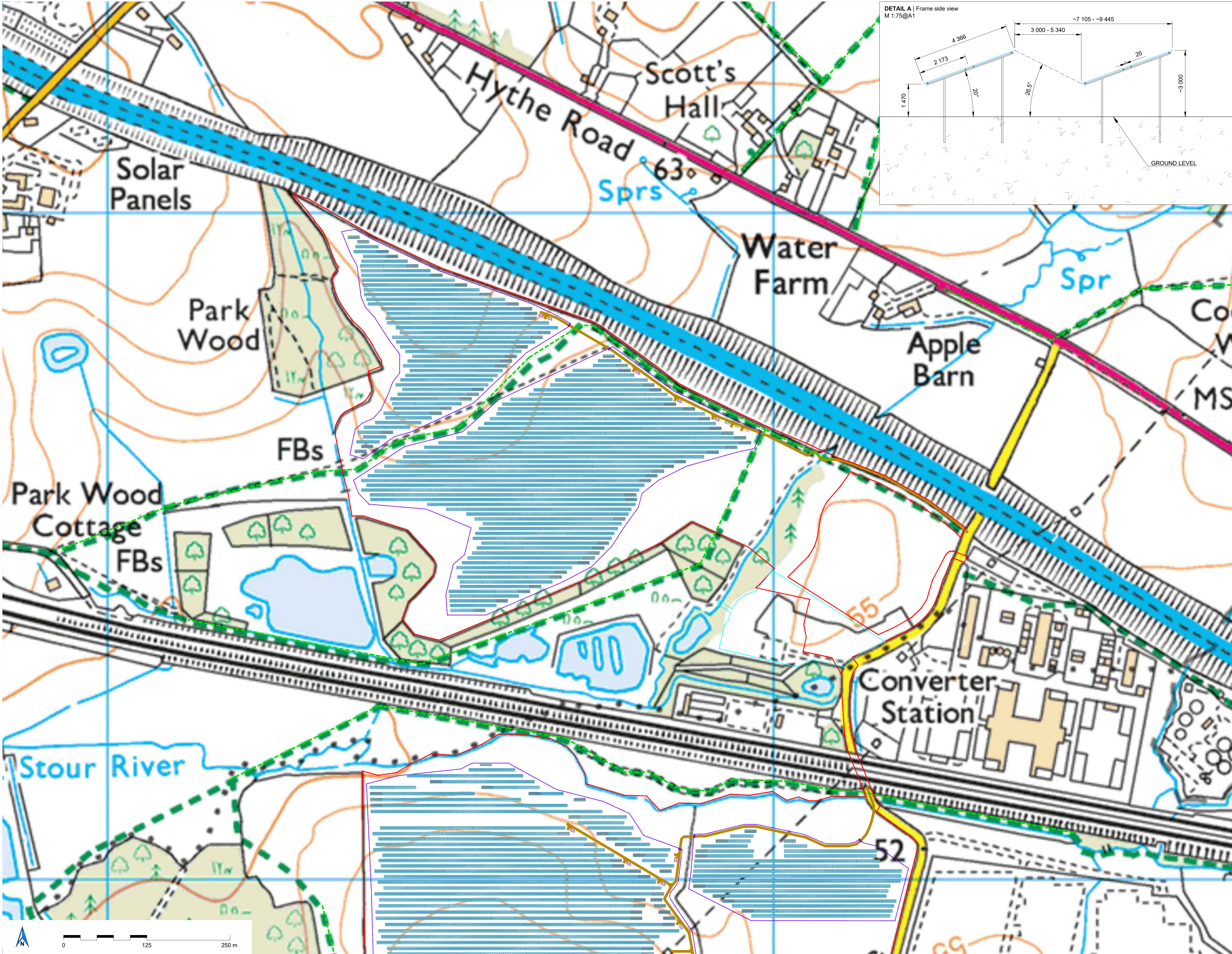
- Reproduced from Ordnance Survey digital map data © Crown copyright 2023. All rights reserved. Licence number 100053544.

Scale: 1: 20,000 @A3



SEI Figure: 1.1
Cumulative Developments

Drawn by: **BJD**
 Checked by:
 Date: **11-12-23**



- Notes:**
- All dimensions to be confirmed on site prior to installation.
 - All dimensions are indicative only and in mm unless otherwise specified.
 - Drawing based on:
 - *East Stour - EA Agreed 51.3m contour.png;
 - *Delta-Solar_Ground-Mount_Project Form - East Stour.docx*;
 - *OS_1_25_000_raster_-_Explorer_691545_900093*;
 - *OS_Terrain_5_691545_900094*;
 - *Sellidg - All Constraints Merged V3.gpkg*;
 - *Sellidg - Access Tracks V3.gpkg*;
 - *SEL-PP-TCL-DRG-P001-O_122.08.16).dwg*;
 - GE Imager Date: 30/03/21

- Legend:**
- Site boundary
 - BESS boundary
 - Perimeter fence
 - Maintenance track
 - Welfare
 - Store
 - Inverter/ Substation Unit
 - Substation container

System description:

No. of modules:	107 926
Module type:	Canadian Solar CS7L-590MB
Dimensions:	2173x1305x35
Substructure type:	2 modules in portrait
Tilt angle:	20°
Shading angle:	-26.5°
Azimuth from South:	Due south
Pitch distance:	-7 105mm -9 445mm
Row to row distance:	3 000mm - 5 340mm
No. of Inverters:	252
Inverter type:	Huawei SUN2000-215KTL-H0
Power ratio:	1.21 / 1.28 @215kVA
No. of AC combiners:	20
No. of Transformers:	-
Fence area:	-65.49 ha
Fence length:	-9 038 m
Total area:	-103.90 ha



Revisions:

Rev	Date	Comments	Drawn
E	14/12/21	Additional equipment	AP
F	25/03/22	Central substation added	AP
G	11/04/22	Side elevation changed	AP
H	07/06/22	Substation relocated	AP
L	27/06/22	OS Map amendment	AP
J	22/09/23	Site boundary updated	IM
K	10/10/23	Site boundary updated	IM
L	04/12/23	Map added	IM
M	03/01/24	OS map, BESS boundary added	IM

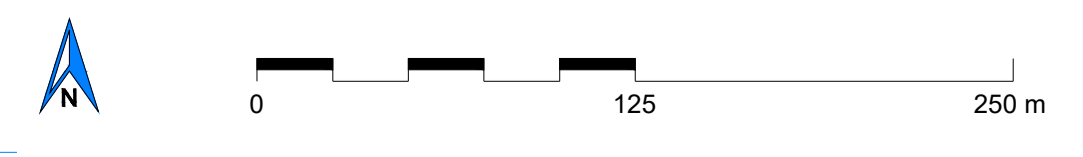
Project: East Stour
Location: Church Lane, Aldington, UK
 51°6'3.99"N 0°57'57.56"E
Title: Figure 1.2 Proposed Site Layout (North) REV M

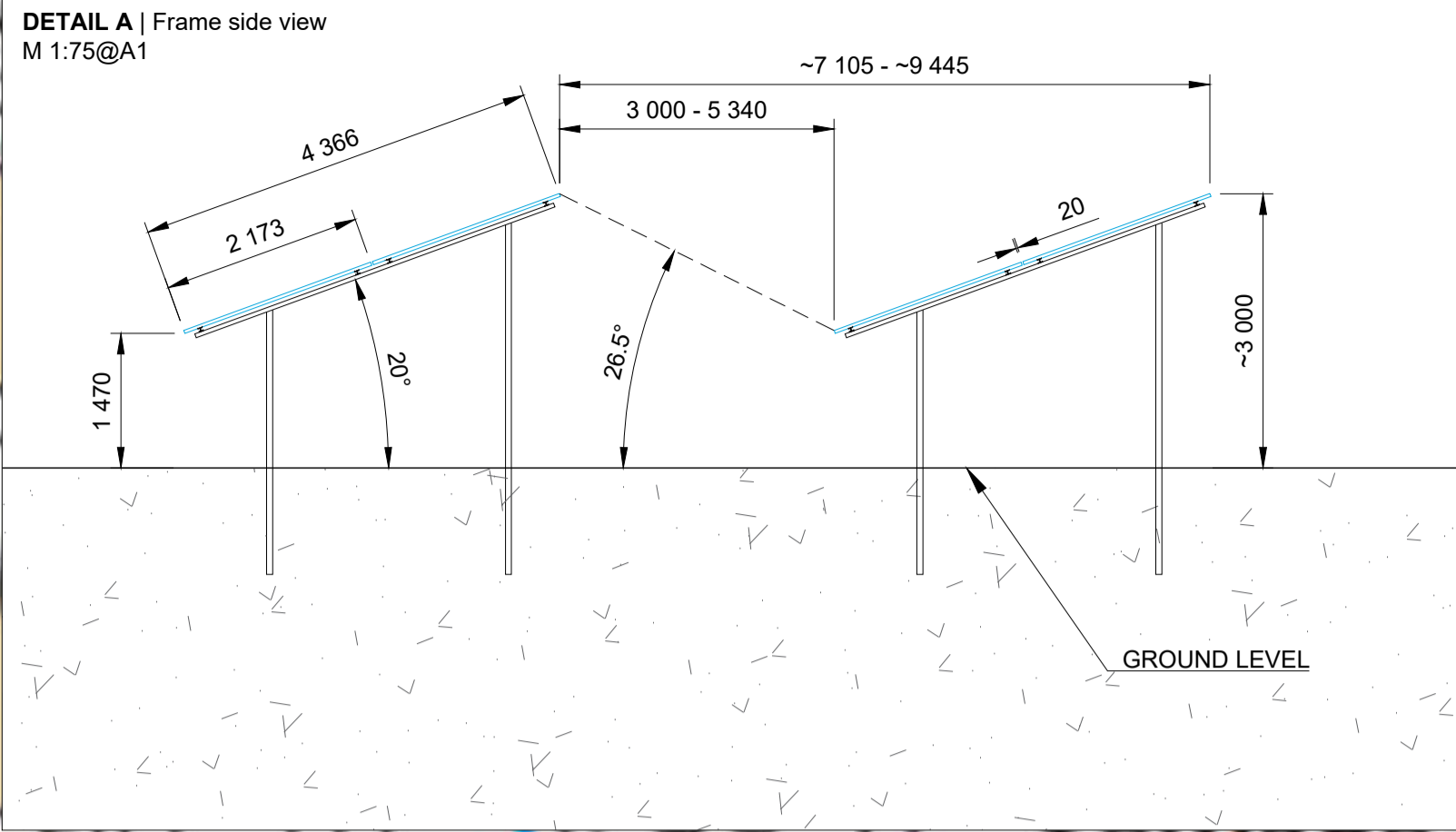
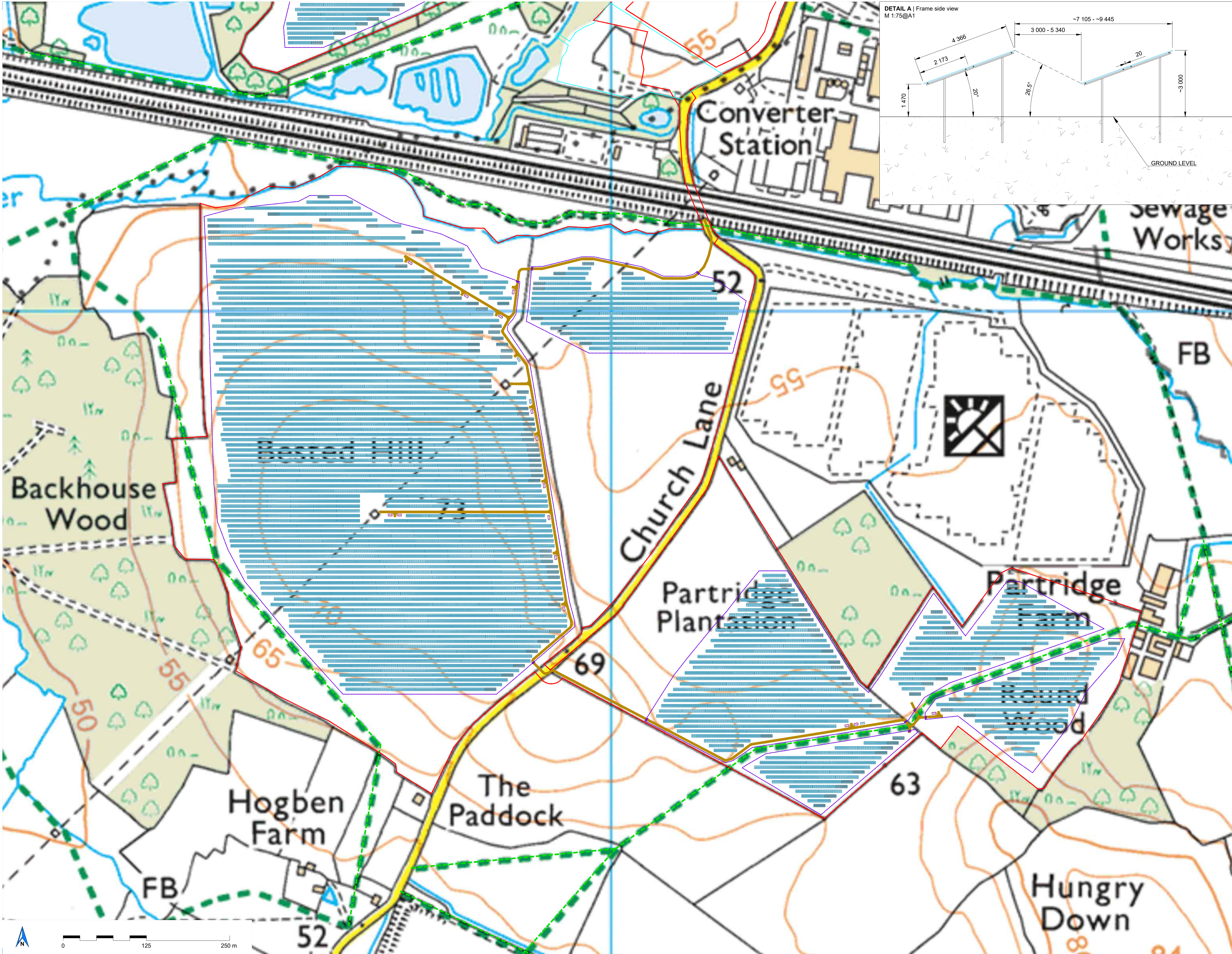
Drawn: DETRA / AP **Checked:** IB
Scale: 1:2500@A1 **Date:** 03/01/24
Drawing No: ENGN1006-100 **Rev:** M



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 - All dimensions are indicative only and in mm unless otherwise specified.
 - Drawing based on:
 - *East Stour - EA Agreed 51.3m contour.png;
 - *Detra-Solar_Ground-Mount_Project Form - East Stour.docx*;
 - *OS_1_25_000_raster_-_Explorer_691545_900093*;
 - *OS_Terrain_5_691545_900094*;
 - *Sellindge - All Constraints Merged V3.gpkg*;
 - *Sellindge - Access Tracks V3.gpkg*;
 - *SEL-PP-TCL-DRG-P001-O_122.08.16*.dwg*;
 - GE Imager Date: 30/03/21

- Legend:
- Site boundary
 - BESS boundary
 - Perimeter fence
 - Maintenance track
 - Wellfare
 - Store
 - Inverter/ Substation Unit
 - Substation container

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Row to row distance:	3 000mm - 5 340mm
No. of inverters:	252
Inverter type:	Huawei SUN2000-215KTL-H0
Power ratio:	1.21 / 1.28 @215kVA
No. of AC combiners:	-
No. of Transformers:	20
Fence area:	-65.49 ha
Fence length:	-9 038 m
Total area:	-103.90 ha



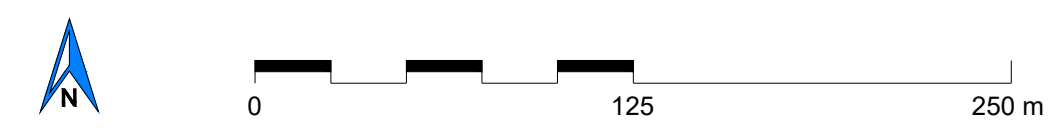
Revisions:

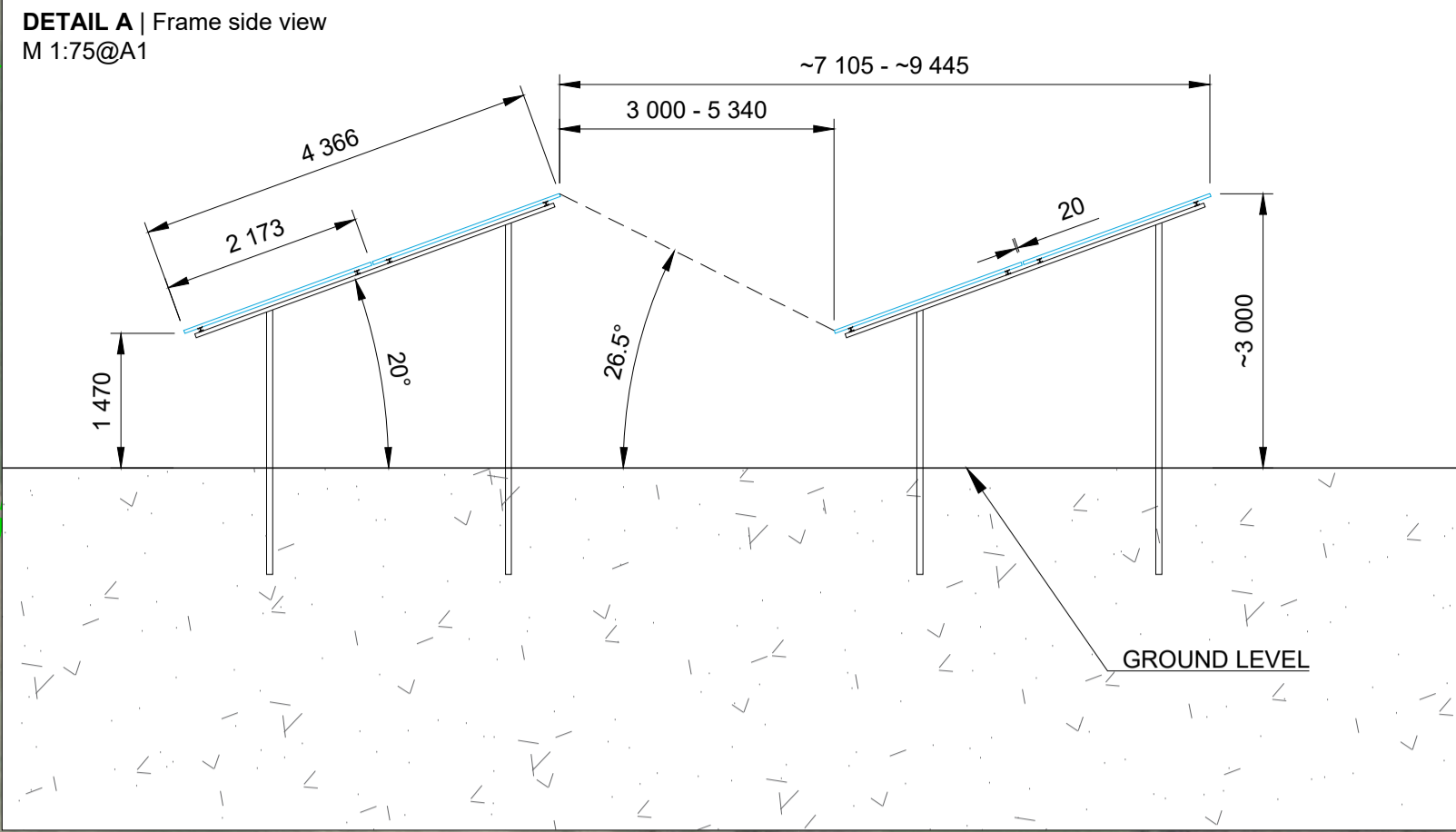
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E	14/12/21	Additional equipment	AP
F	25/03/22	Central substation added	AP
G	11/04/22	Side elevation changed	AP
H	07/06/22	Substation relocated	AP
L	27/06/22	OS Map amendment	AP
J	22/09/23	Site boundary updated	IM
K	10/10/23	Site boundary updated	IM
L	04/12/23	Map added	IM
M	03/01/24	OS map, BESS boundary added	IM

Project: East Stour
 Location: Church Lane, Aldington, UK
 51°6'3.99"N 0°57'57.56"E
 Title: Figure 1.2 Proposed Site Layout (South) REV M
 Drawn: DETRA / AP Checked: IB
 Scale: 1:2500@A1 Date: 03/01/24
 Drawing No: ENGN1006-100 Rev: M

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 - *OS_1_25_000_raster_-_Explorer_691545_900093*;
 - *OS_Terrain_5_691545_900094*;
 - *Sellindge - All Constraints Merged V3.gpkg*;
 - *Sellindge - Access Tracks V3.gpkg*;
 - *SEL-PP-TCL-DRG-P001-O_122.08.16.dwg*;
 - GE Imager Date: 30/03/21

Legend:

- Site boundary
- BESS boundary
- Perimeter fence
- Maintenance track
- Welfare
- Store
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Shading angle:	~26.5°
Azimuth from South:	Due south
Pitch distance:	~7 105mm - ~9 445mm
Row to row distance:	3 000mm - 5 340mm
No. of inverters:	252
Inverter type:	Huawei SUN2000-215KTL-H0
Power ratio:	1.21 / 1.28 @215KVA
No. of AC combiners:	-
No. of Transformers:	20
Fence area:	~65.49 ha
Fence length:	~9 038 m
Total area:	~103.90 ha

Proposed location:



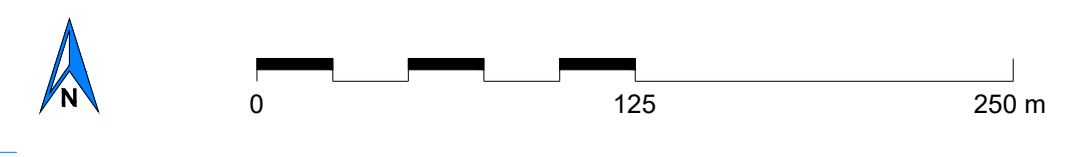
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Rev	Date	Comments	Drawn
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K	10/10/23	Site boundary updated	IM
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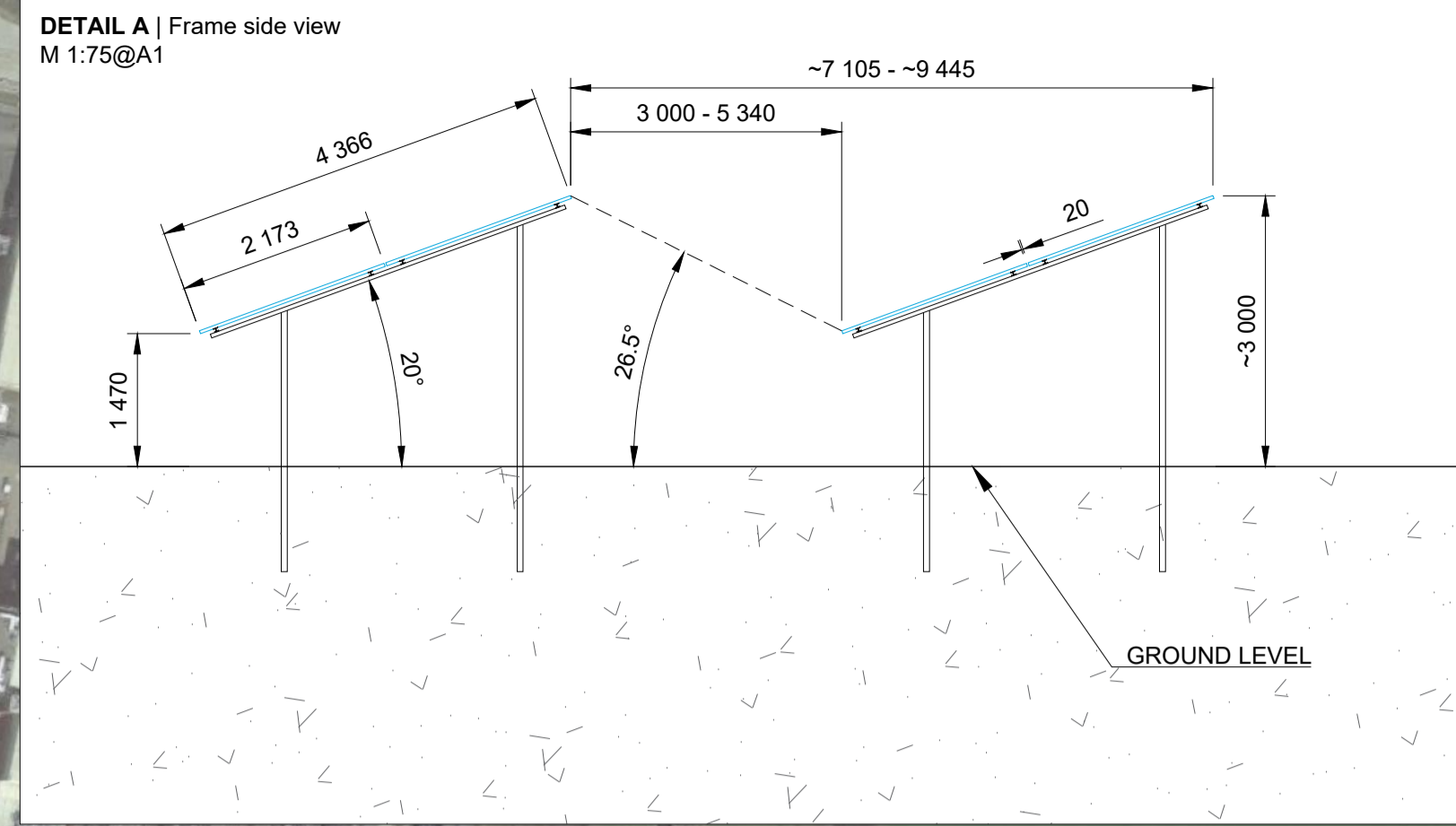
Project: East Stour
Location: Church Lane, Aldington, UK
 51°6'3.99"N 0°57'57.56"E
Title: SEI Figure 1.3 Proposed Site Layout (Aerial Image) - North
Drawn: DETRA / AP **Checked:** IB
Scale: 1:2500@A1 **Date:** 03/01/24
Drawing No: ENGN1006-100 **Rev:** M



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 - GE Imager Date: 30/03/21

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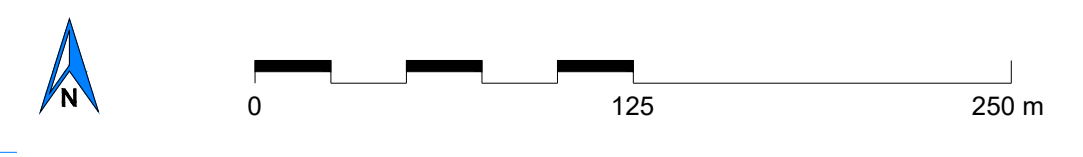
Project: East Stour
Location: Church Lane, Aldington, UK
 51°6'3.99"N 0°57'57.56"E
Title: SEI Figure 1.3 Proposed Site Layout (Aerial Image) - South

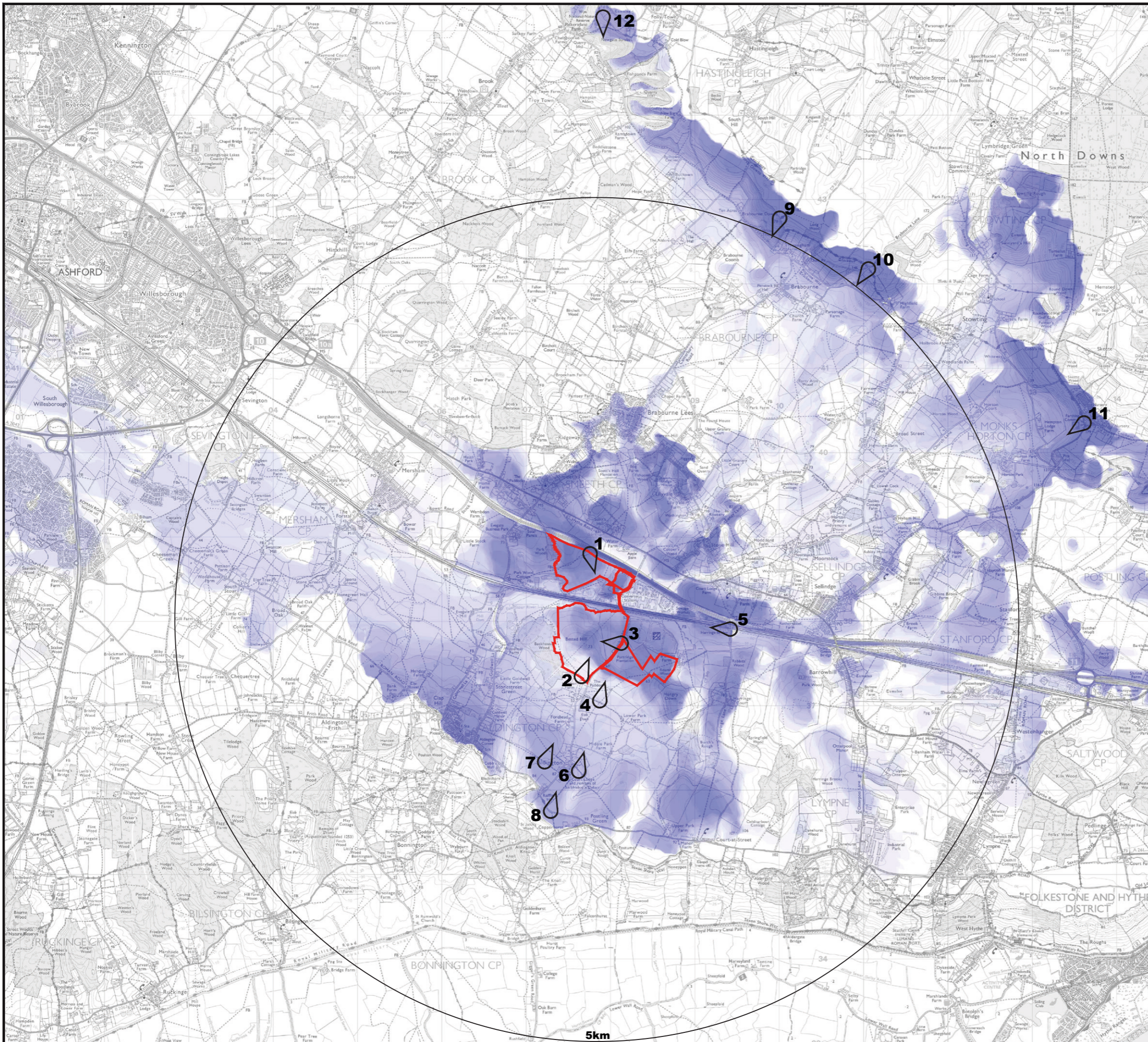
Drawn: DETRA / AP **Checked:** IB
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Drawing No: ENGN1006-100 **Rev:** M



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Project: **East Stour Solar Farm**



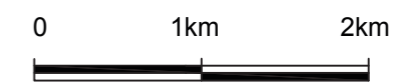
Key:

- Application boundary
- Zone of Theoretical Visibility of proposed highest points of solar panels @ 3m above ground level
- 👁 Viewpoint location

Notes:

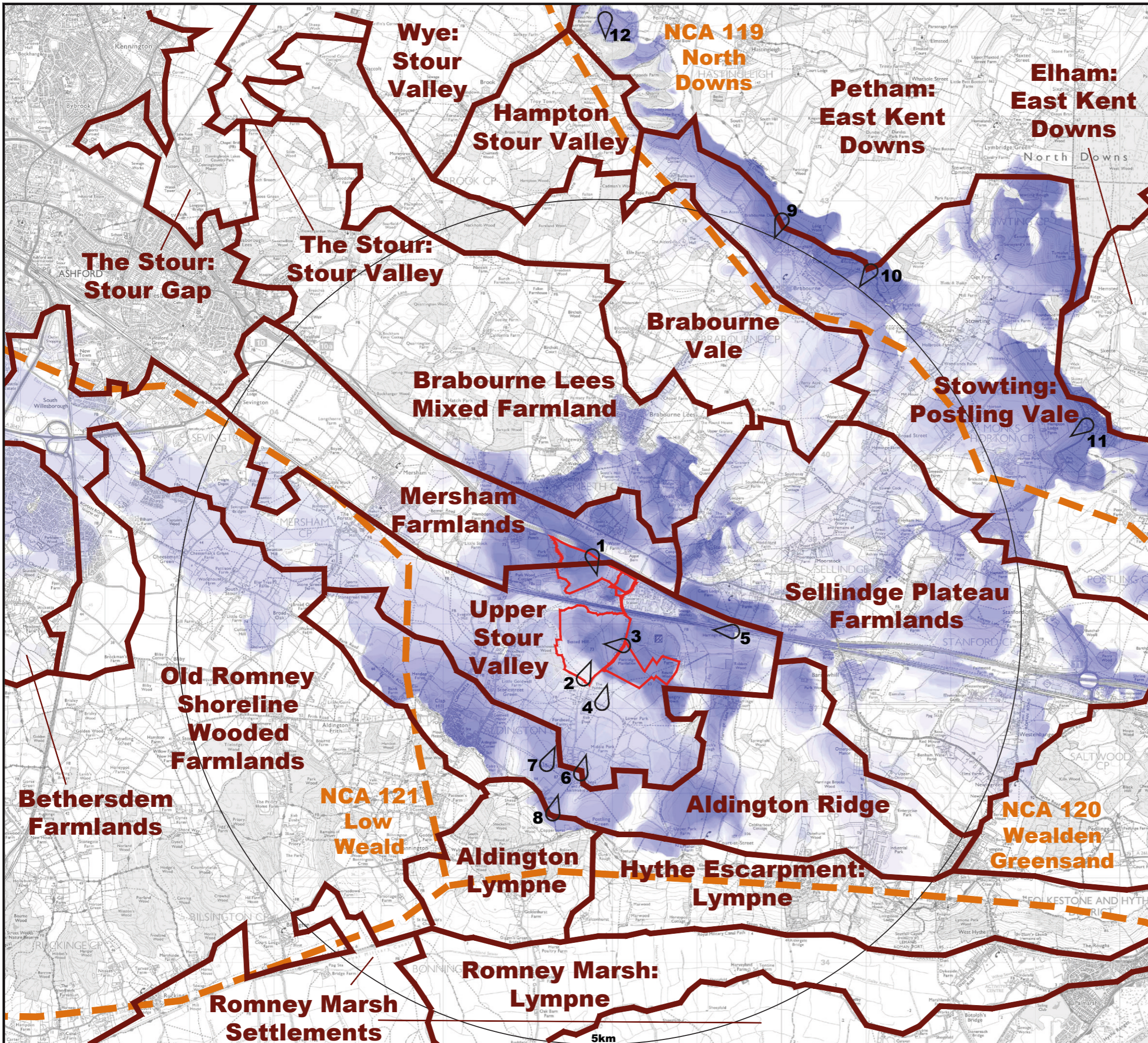
1. ZTV, generated 16th December 2021.
2. Predicted visibility is for observer eye level 2m above ground level.
3. The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
4. Created using Ordnance Survey digital 5m terrain data.
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Scale:



SEI Figure: 11.1 Revision A
5km Radius Zone of Theoretical Visibility

Drawn by: **BJD**
 Checked by:
 Date: **05-12-23**

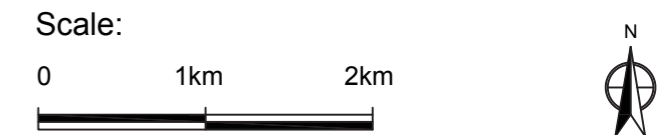


Project: **East Stour Solar Farm**



- Key:
- Application boundary
 - - - National Character Area boundary
 - Viewpoint location

- Notes:
1. For information regarding the ZTV plase refer to Figure 11.1.
 2. Reproduced from Ordnance Survey digital map data © Crown copyright 2023. All rights reserved. Licence number 100053544.

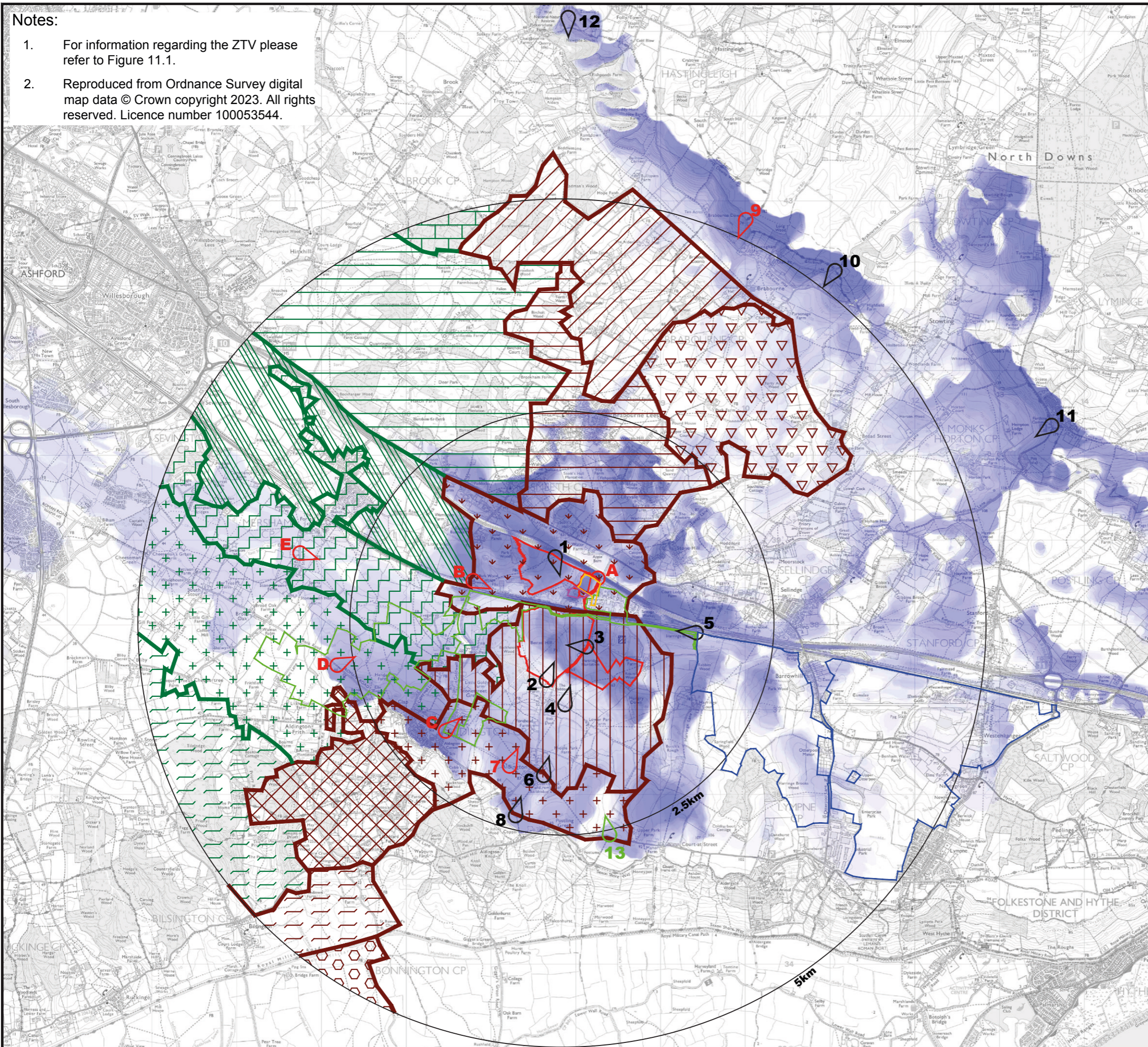


SEI Figure: 11.2 Revision A
Landscape Character Plan - Kent County LCAs

Drawn by: BJD
 Checked by:
 Date: 05-12-23

Notes:

1. For information regarding the ZTV please refer to Figure 11.1.
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Project:
East Stour Solar Farm



Key:

- East Stour application boundary
- Sellindge BESS boundary
- Sellindge Grid Stability Facility boundary
- Otterpool Park Garden Town boundary
- Stonestreet Green Solar boundary

Landscape Character Areas Ashford (Urban):

- Aldington Ridge
- Brabourne Vale
- Brabourne Lees Mixed Farmlands
- Mersham Farmlands
- Old Romney Shoreline Woodland Farmlands
- Upper Stour Valley

Landscape Character Areas Ashford:

- Brabourne Farmlands
- Brabourne Arable Farmlands
- Brabourne Lees Hilly Farmlands
- Evegate Mixed Farmlands
- East Stour Valley
- Aldington Ridgeline
- Bonnington Wooded Farmlands
- Old Romney Shoreline Settlements
- Royal Military Marshlands
- East Stour LVIA viewpoint locations
- East Stour CLVIA viewpoint locations
- Additional AONB Viewpoint

Note: ZTV information is contained on Figure 11.1

Scale: @A3

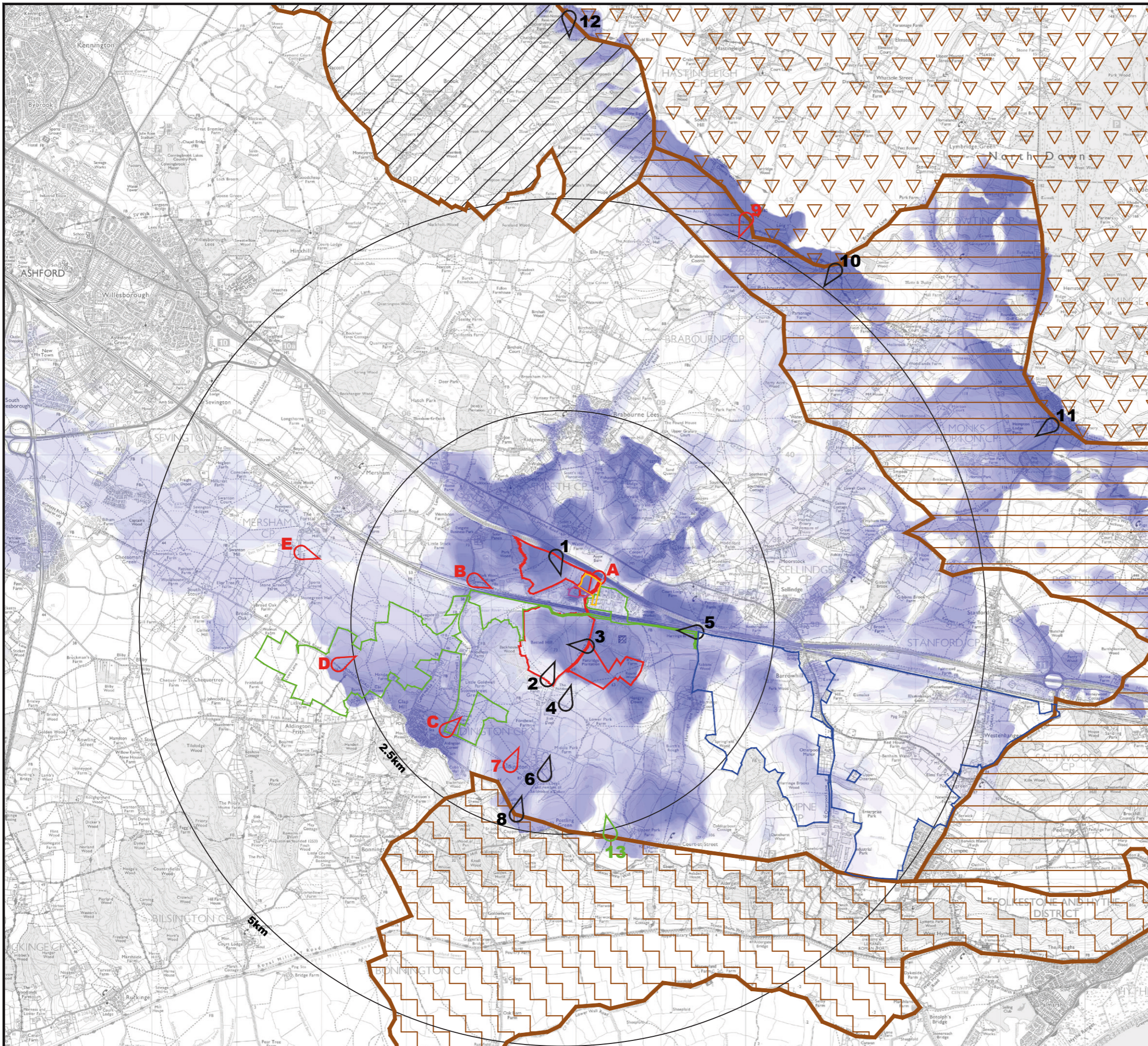
0 1km 2km

SEI Figure: 11.3 Revision A
Landscape Character Plan - Ashford

Drawn by: BJD

Checked by:

Date: 05-12-23



Project: **East Stour Solar Farm**



Key:

- East Stour application boundary
- Sellindge BESS boundary
- Sellindge Grid Stability Facility boundary
- Otterpool Park Garden Town boundary
- Stonestreet Green Solar boundary

Landscape Character Areas within the AONB:

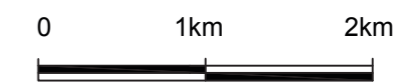
- Stour Valley
- East Kent Downs
- Postling Scarp and Vale
- Lympe Greensand Escarpment

- East Stour LVIA viewpoint locations
- East Stour CLVIA viewpoint locations
- Additional AONB Viewpoint

Notes:

1. For information regarding the ZTV please refer to Figure 11.1.
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Scale: @A3



SEI Figure: 11.4 Revision A
Landscape Character within the AONB

Drawn by: BJD
 Checked by:
 Date: 05-12-23

Project: **East Stour Solar Farm**



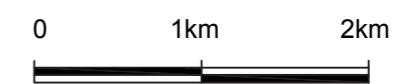
Key:

- East Stour application boundary
- Sellindge BESS boundary
- Sellindge Grid Stability Facility boundary
- Otterpool Park Garden Town boundary
- Stonestreet Green Solar boundary
- Approximate location of AONB boundary
- Historic Parks and Gardens
- 1 East Stour LVIA viewpoint locations
- A East Stour CLVIA viewpoint locations
- 13 Additional AONB Viewpoint

Notes:

1. For information regarding the ZTV please refer to Figure 11.1.
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Scale: @A3



SEI Figure: 11.5 Revision A
Landscape Designations

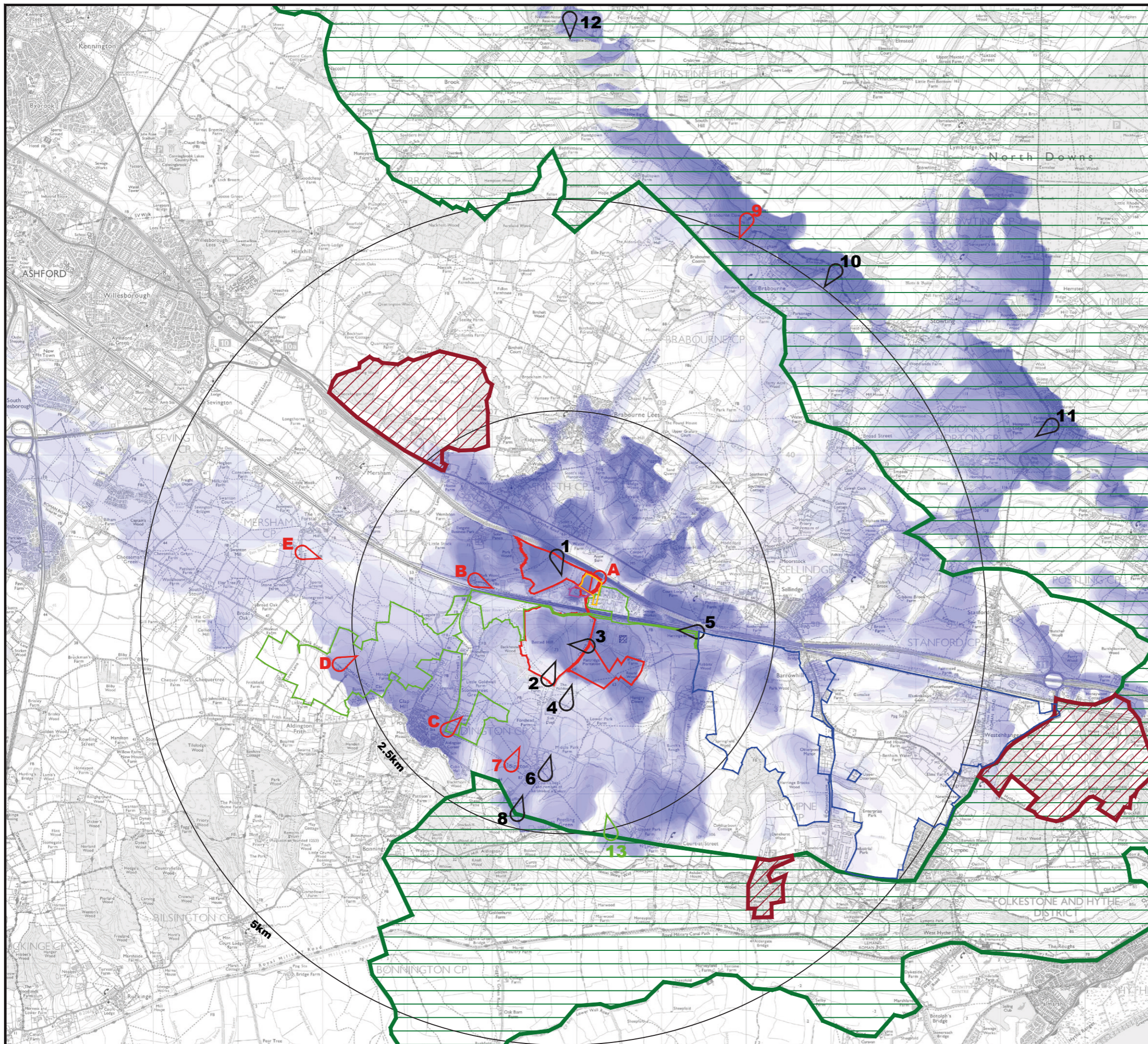
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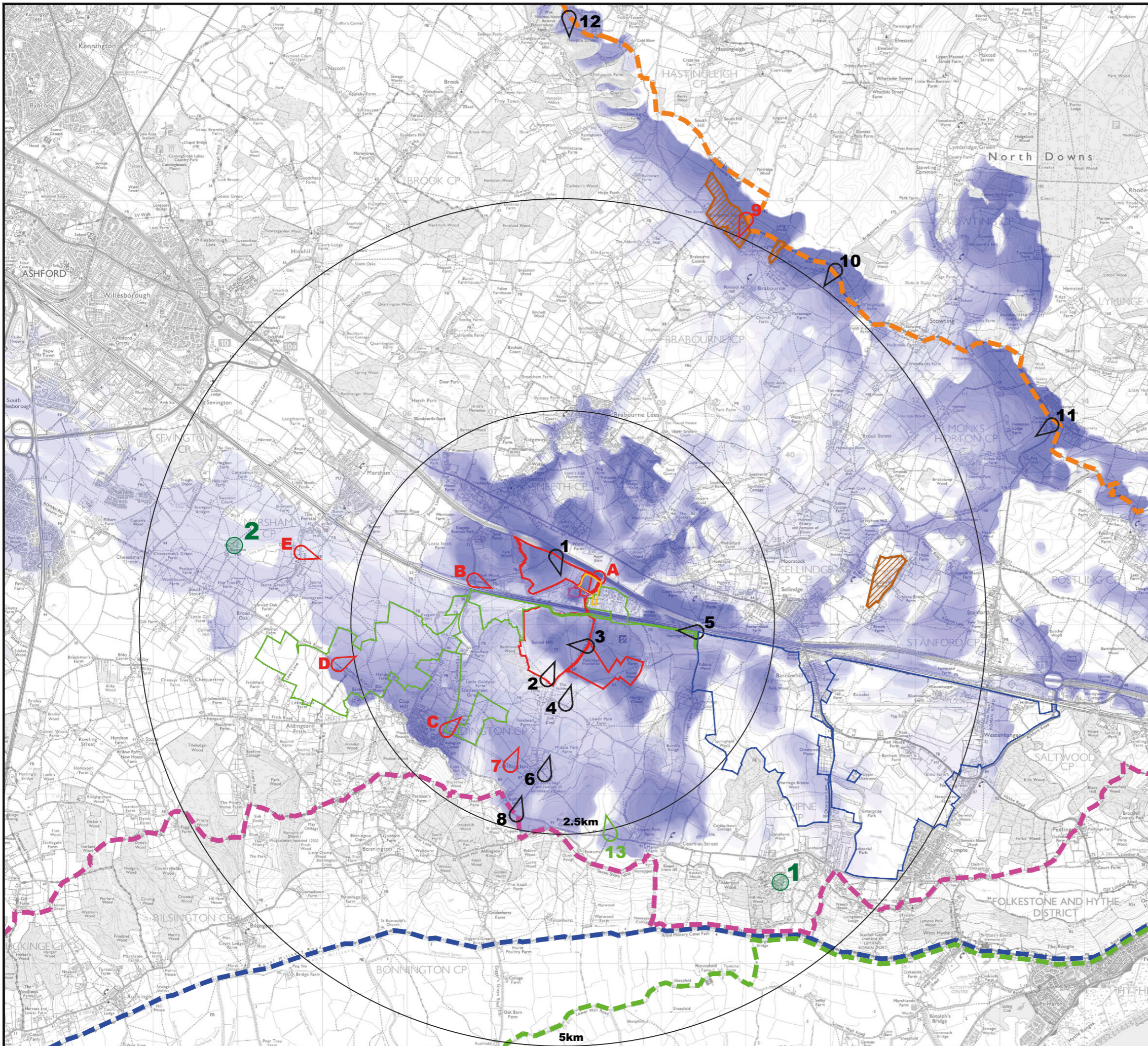
BJD

Checked by:

Date:

05-12-23





Project: **East Stour Solar Farm**



- Key:**
- East Stour application boundary
 - Sellindge BESS boundary
 - Sellindge Grid Stability Facility boundary
 - Otterpool Park Garden Town boundary
 - Stonestreet Green Solar boundary
 - Areas of Open Access Land
 - Saxon Shore Way
 - Royal Military Canal Path
 - North Downs Way
 - SUSTRANS route 2

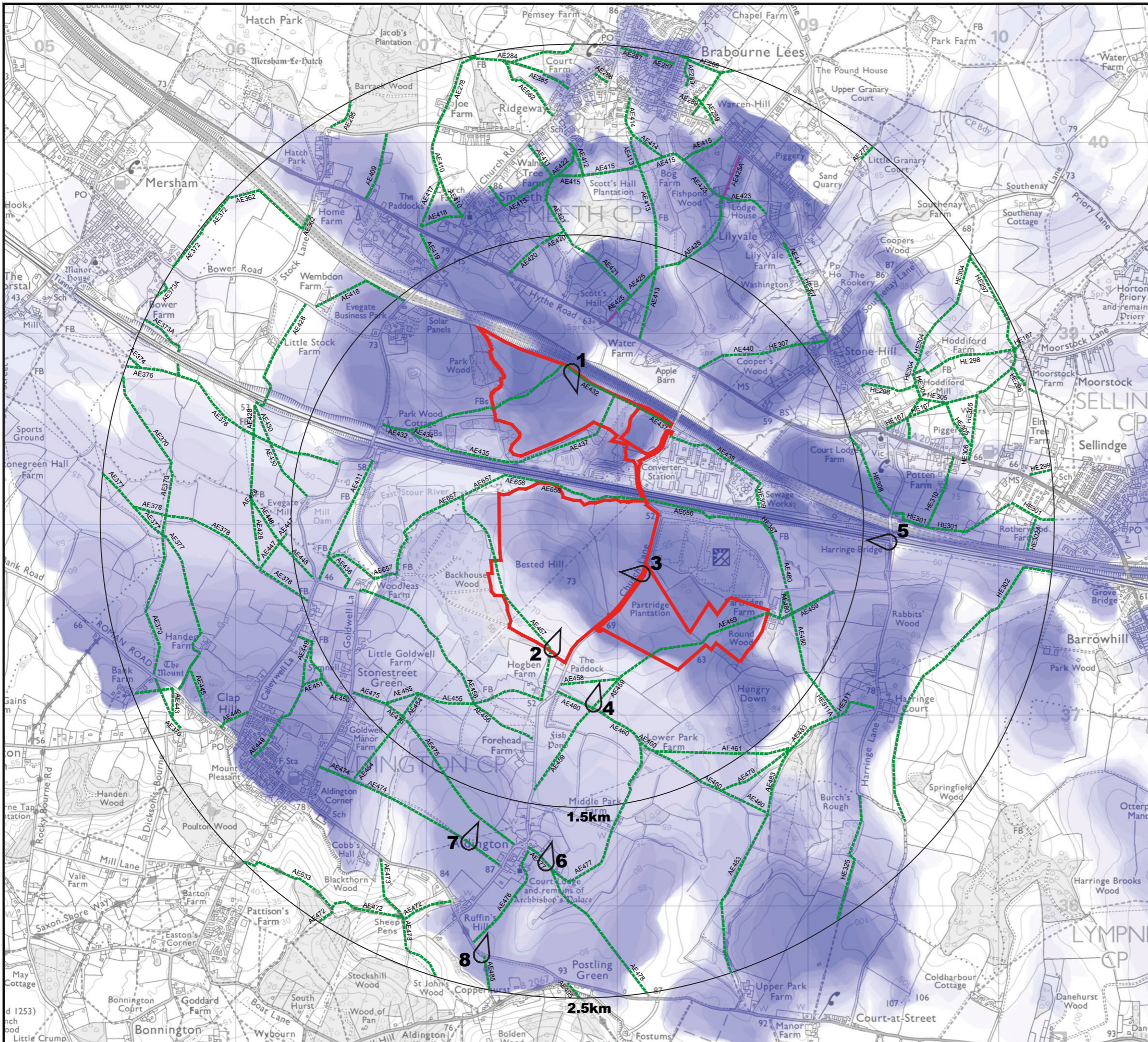
- Visitor Attractions:**
- 1 Port Lympe Wild Animal Park
 - 2 Sawnton Mill
 - 10 East Stour LVIA viewpoint locations
 - A East Stour CLVIA viewpoint locations
 - 13 Additional AONB Viewpoint

- Notes:**
1. For information regarding the ZTV please refer to Figure 11.1.
 2. Reproduced from Ordnance Survey digital map data © Crown copyright 2023. All rights reserved. Licence number 100053544.



SEI Figure: 11.6 Revision A
Recreational Routes and Visitor Attractions

Drawn by: BJD
 Checked by:
 Date: 05-12-23



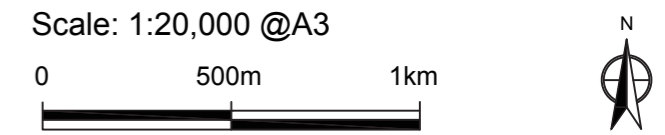
Project:

East Stour Solar Farm



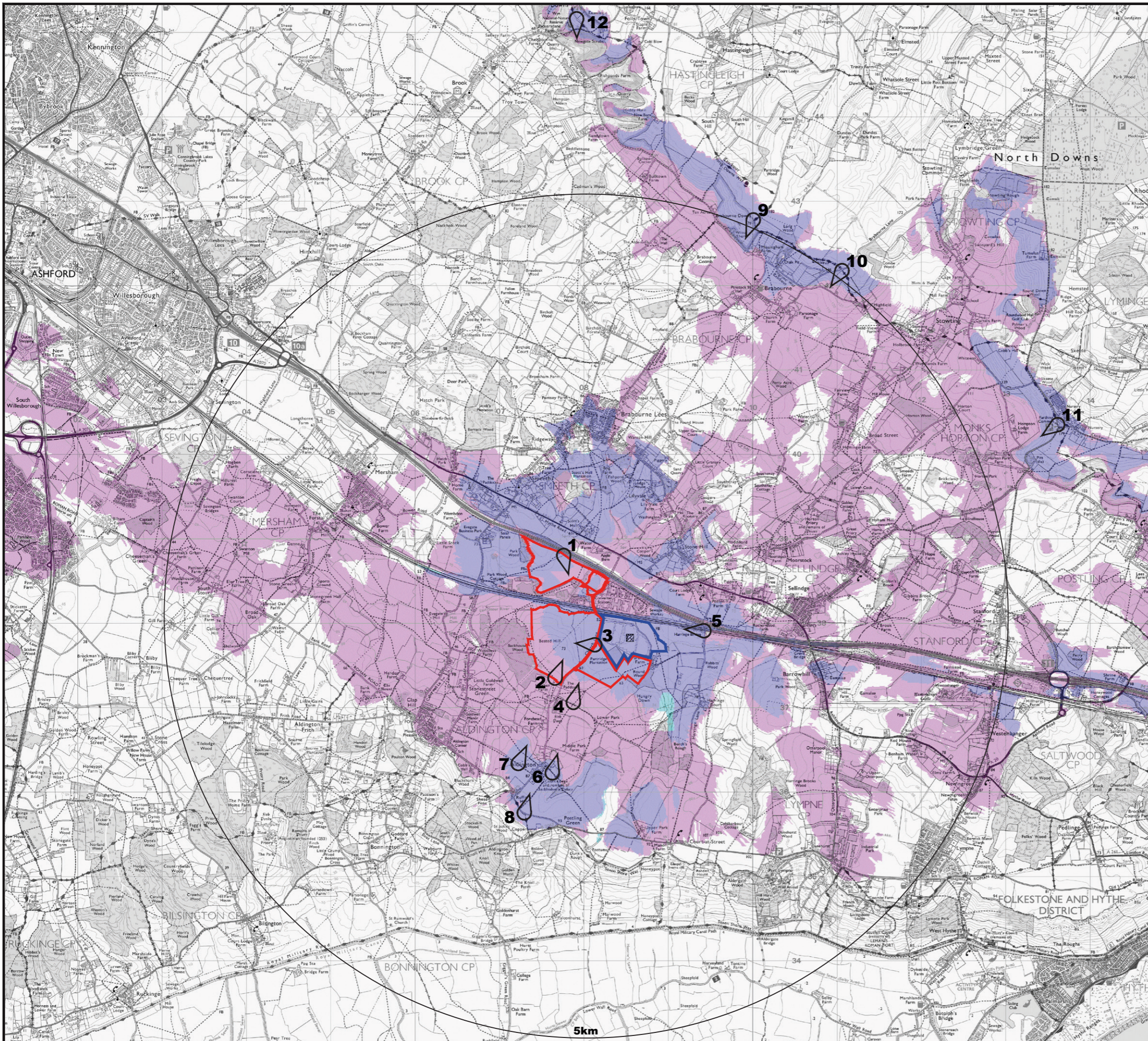
- Key:**
- Application boundary
 - - - Footpath
 - - - Restricted Byway
 - Viewpoint location

- Notes:**
1. For information regarding the ZTV please refer to Figure 11.1.
 2. Reproduced from Ordnance Survey digital map data © Crown copyright 2023. All rights reserved. Licence number 100053544.



SEI Figure: 11.7 Revision A
Public Rights of Way

Drawn by: BJD
 Checked by:
 Date: 05-12-23



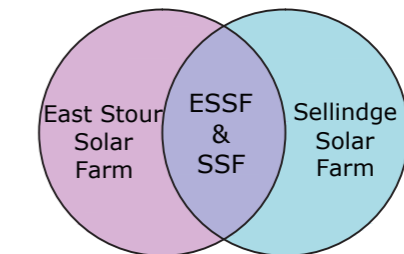
Project: **East Stour Solar Farm**



Key:

- East Stour application boundary -(proposed) 3.0m solar panel height
- Sellindge Solar Farm -(operational) 2.6m solar panel height

Theoretical visibility of:

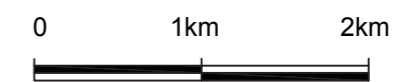


Viewpoint location

Notes:

1. CZTV, generated 17th December 2021.
2. Predicted visibility is for observer eye level 2m above ground level.
3. The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
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Scale:



SEI Figure 11.8: Revision A
Cumulative ZTV with Sellindge Solar Farm

Drawn by: **BJD**

Checked by:

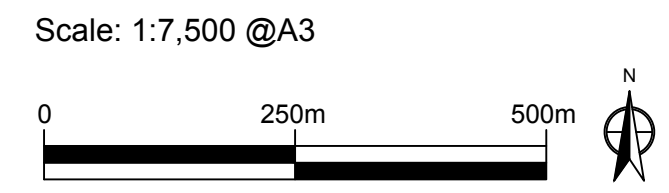
Date: **05-12-23**



- Key:
- Application boundary
 - New hedgerow
 - New low density native tree planting
 - Wildflower / grassland / Riparian mix planting
 - Existing hedgerow
 - Existing field boundary improvements (where necessary)

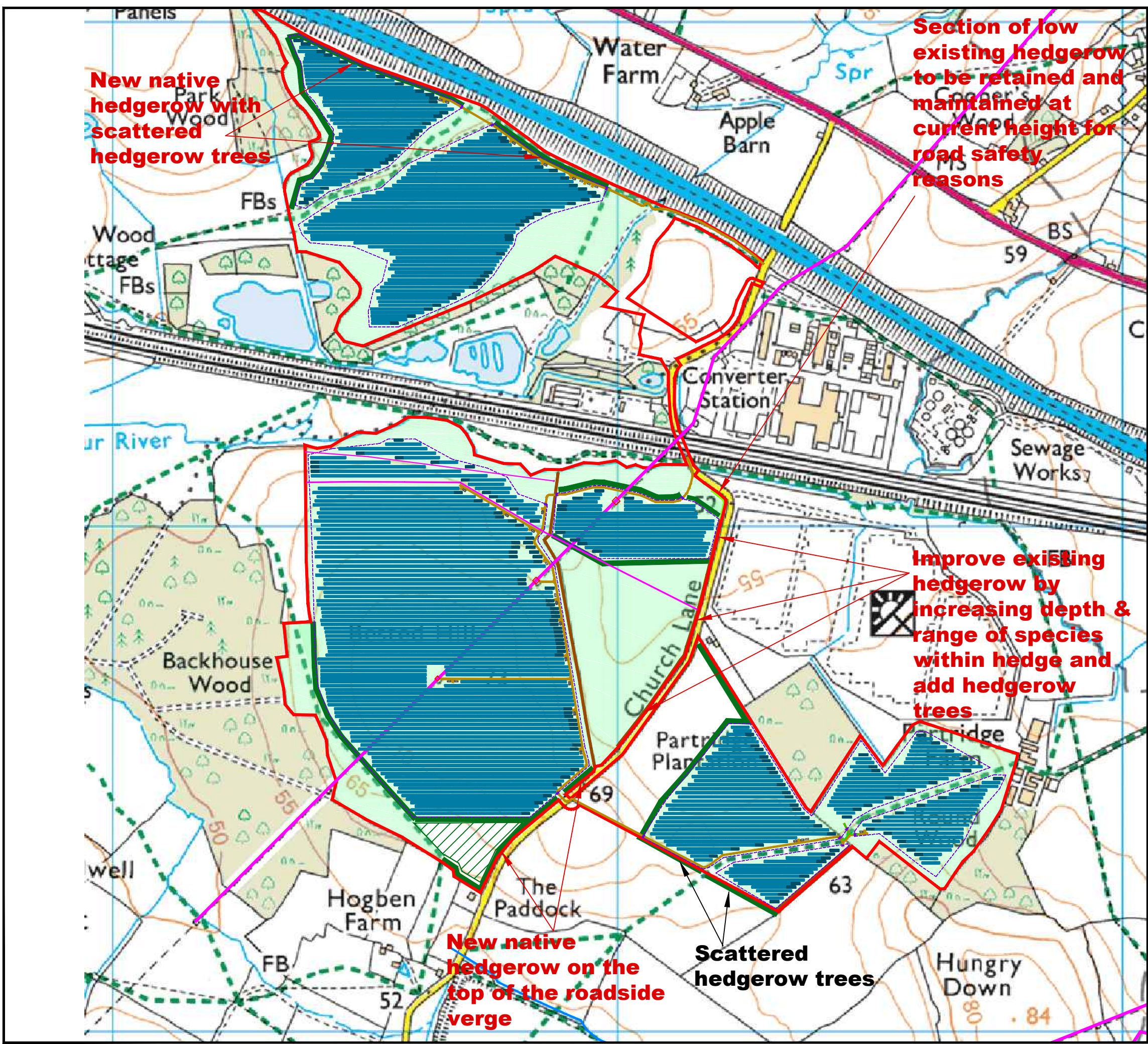
Notes:

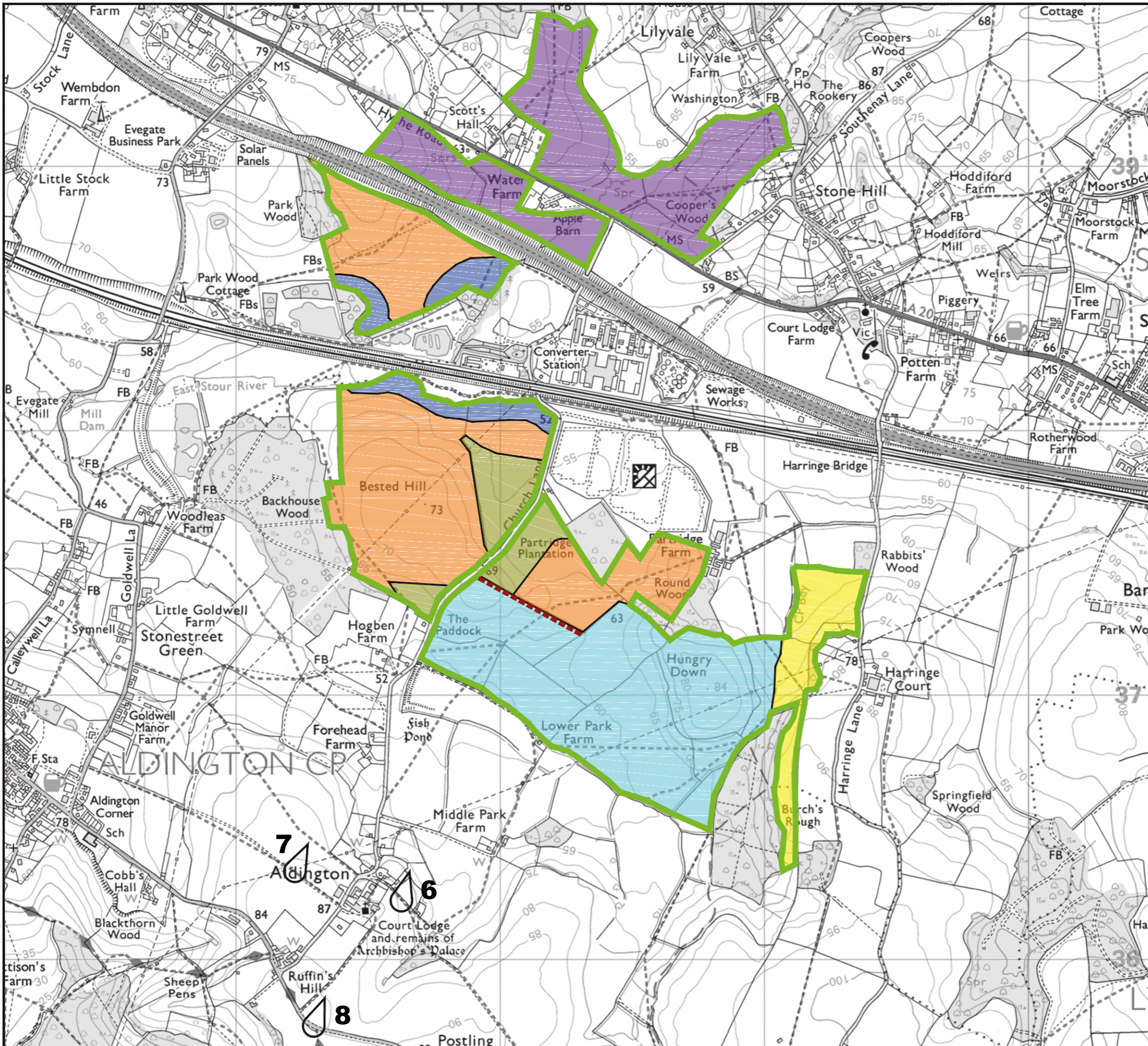
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SEI Figure: 11.9 Revision A
Mitigation Plan

Drawn by: BJD
Checked by:
Date: 05-12-23





Project: **East Stour Solar Farm**



- Key:**
- Overall Landholding
 - Areas retained within solar layout
 - Ridgeline
 - Viewpoints used for layout refinement
- Areas removed from layout for:
- Flooding concerns
 - Residential visual amenity
 - Broad visual amenity reasons
 - Limited solar capacity once constraints are taken into account
 - Area out of district

Notes:

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SEI Figure: 11.10 Layout Progression

Drawn by: BJD
 Checked by:
 Date: 10-10-23

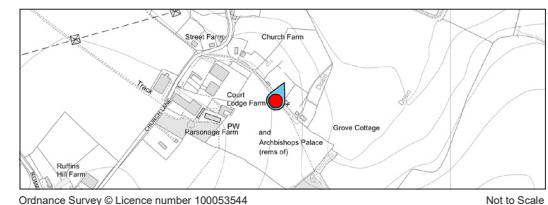


Photomontage at completion

VIEWPOINT 6: Footpath AE477 near Grove Cottage, Aldington

SEI FIGURE 11.11 - VP6 (Layout Refinement), area shaded cyan represents area excluded for 'Broad visual amenity reasons' (as per SEI Figure 11.10)

East Stour Solar Farm



Location Plan

OS reference: 607625E 136220N
 AOD: 79m
 Direction of view: 18°
 Nearest solar panel: 1203m

Visualisation Type:
 Horizontal field of view:
 Vertical field of view:
 Enlargement factor:

Type 3
 90° (cylindrical projection)
 25°
 96% @ A1

Camera: Canon 6D Mk II
 Lens: Canon 50mm FFL
 Camera height: 1.5m AGL
 Date and time: 11/10/2021 10:37

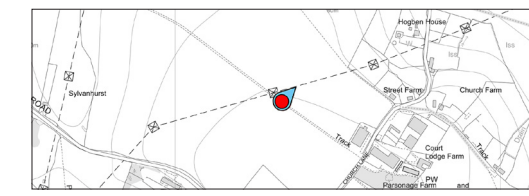


Photomontage at completion - based on submitted layout

VIEWPOINT 7: Footpath AE474 west of Aldington

SEI FIGURE 11.12 - VP7 (Layout Refinement), area shaded cyan represents area excluded for 'Broad visual amenity reasons' (as per SEI Figure 11.10)

East Stour Solar Farm



Location Plan

OS reference: 607222E 136331N
 AOD: 85m
 Direction of view: 20°
 Nearest solar panel: 1161m

Visualisation Type: Type 3
 Horizontal field of view: 90° (cylindrical projection)
 Vertical field of view: 25°
 Enlargement factor: 96% @ A1

Camera: Canon 6D Mk II
 Lens: Canon 50mm FFL
 Camera height: 1.5m AGL
 Date and time: 11/10/2021 10:37

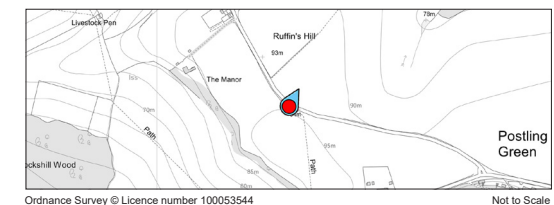


Photomontage at completion

VIEWPOINT 8: Footpath AE485 Saxon Shore Way by Roman Road near Postling Green

SEI FIGURE 11.13 - VP8 (Layout Refinement), area shaded cyan represents area excluded for 'Broad visual amenity reasons' (as per SEI Figure 11.10)

East Stour Solar Farm



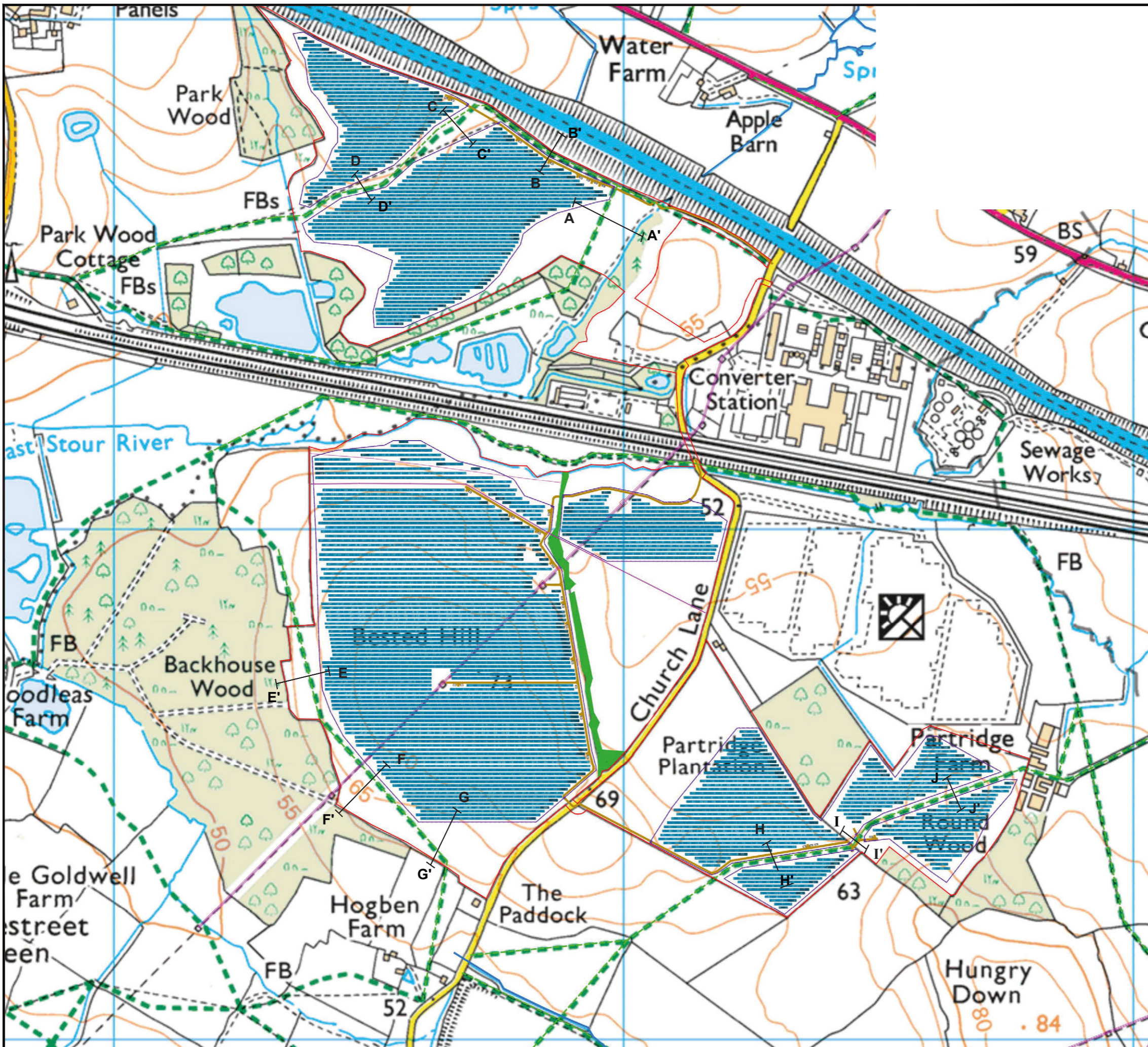
Location Plan

OS reference: 607294E 135743N
 AOD: 96m
 Direction of view: 20°
 Nearest solar panel: 1713m

Visualisation Type:
 Horizontal field of view:
 Vertical field of view:
 Enlargement factor:

Type 3
 90° (cylindrical projection)
 25°
 96% @ A1

Camera: Canon 6D Mk II
 Lens: Canon 50mm FFL
 Camera height: 1.5m AGL
 Date and time: 11/10/2021 11:11



Project: **East Stour Solar Farm**



- Key:
- Approximate application boundary
 - A Cross section locations

- Notes:
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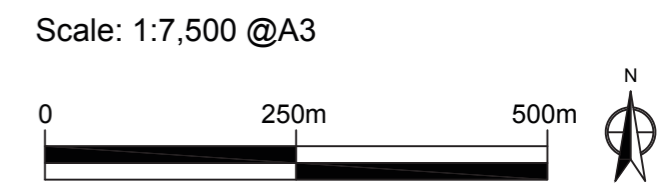


Figure: 11.14
Cross Section Locations

Drawn by: BJD
 Checked by:
 Date: 26-09-23

Illustrative cross-section at year 10 post construction

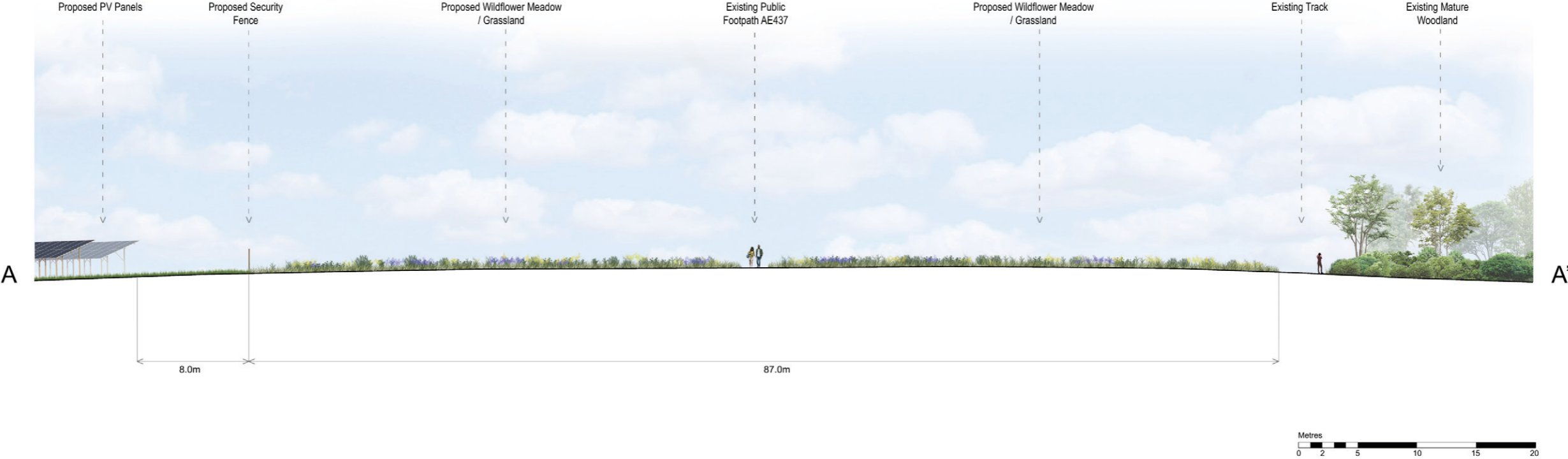


Fig 11.15: Cross-section A - A'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

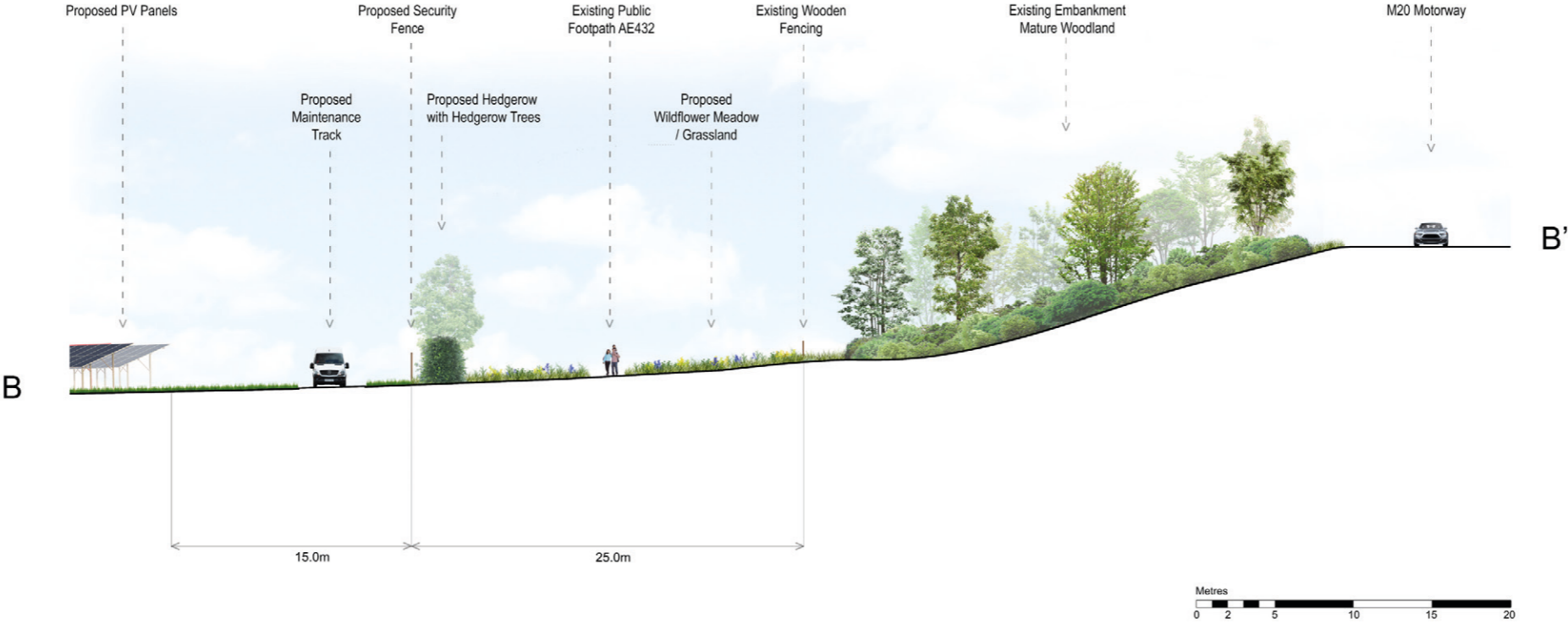


Fig 11.16: Cross-section B - B'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

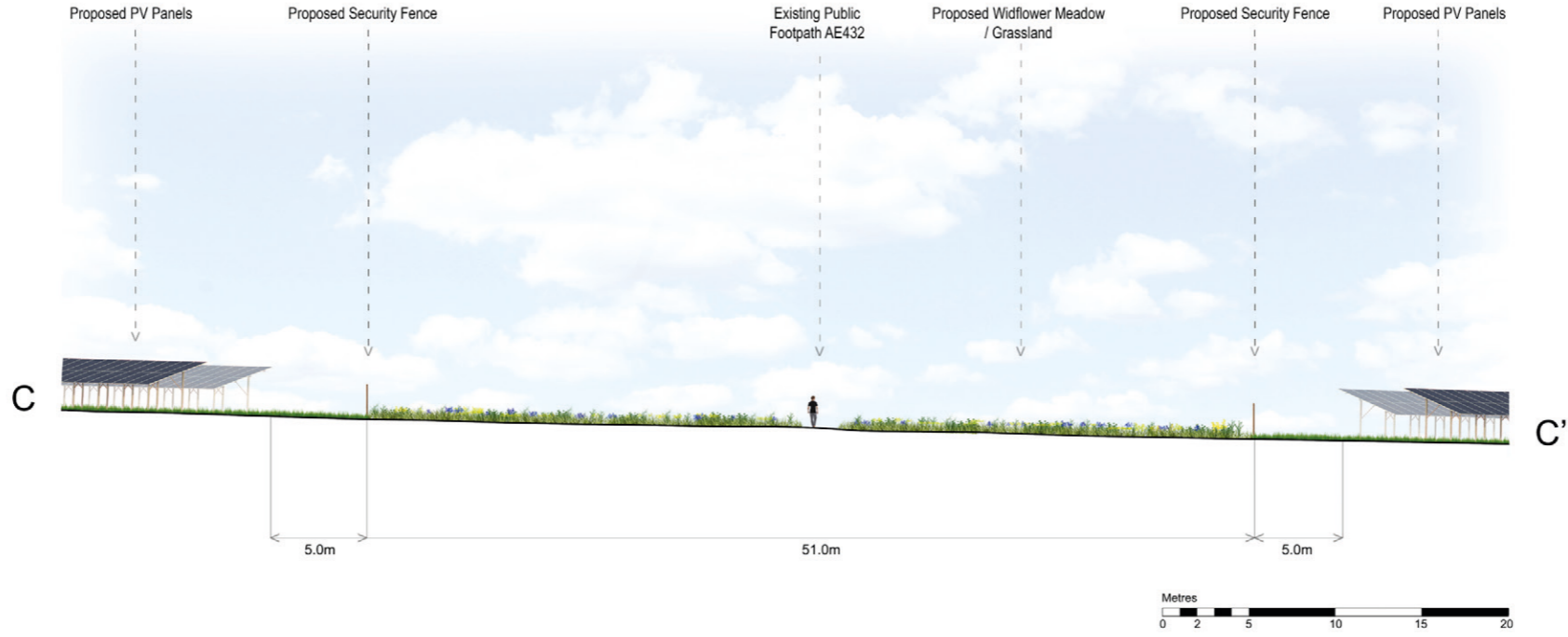


Fig 11.17: Cross-section C - C'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

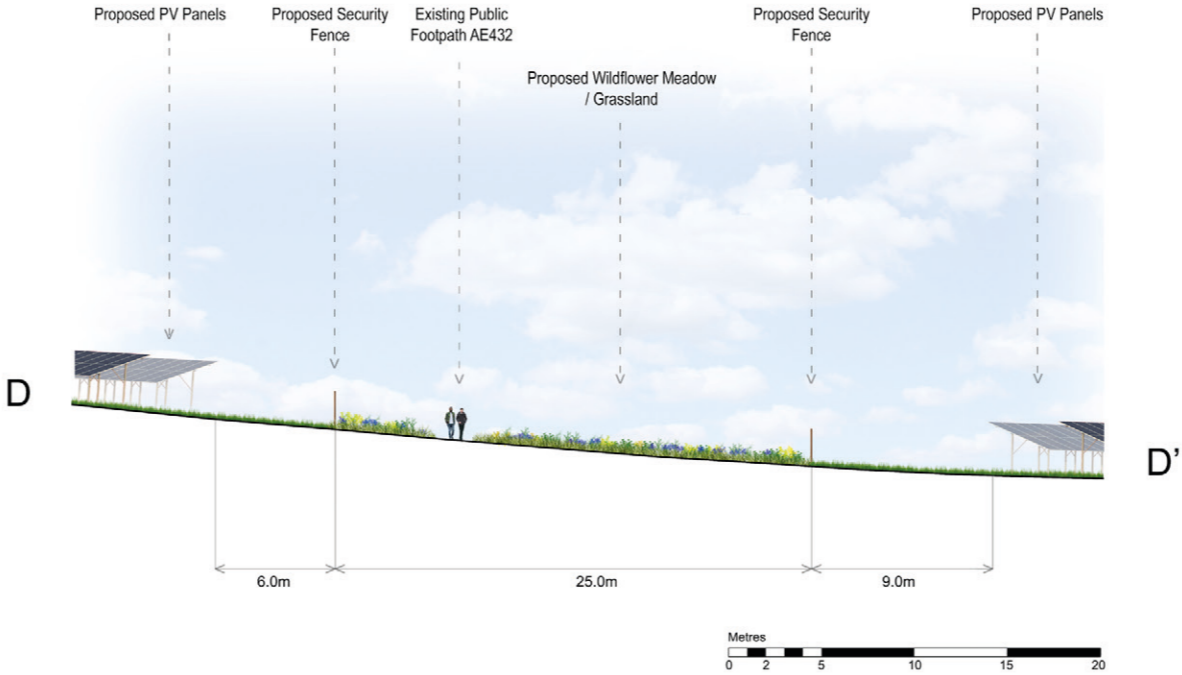


Fig 11.18: Cross-section D - D'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

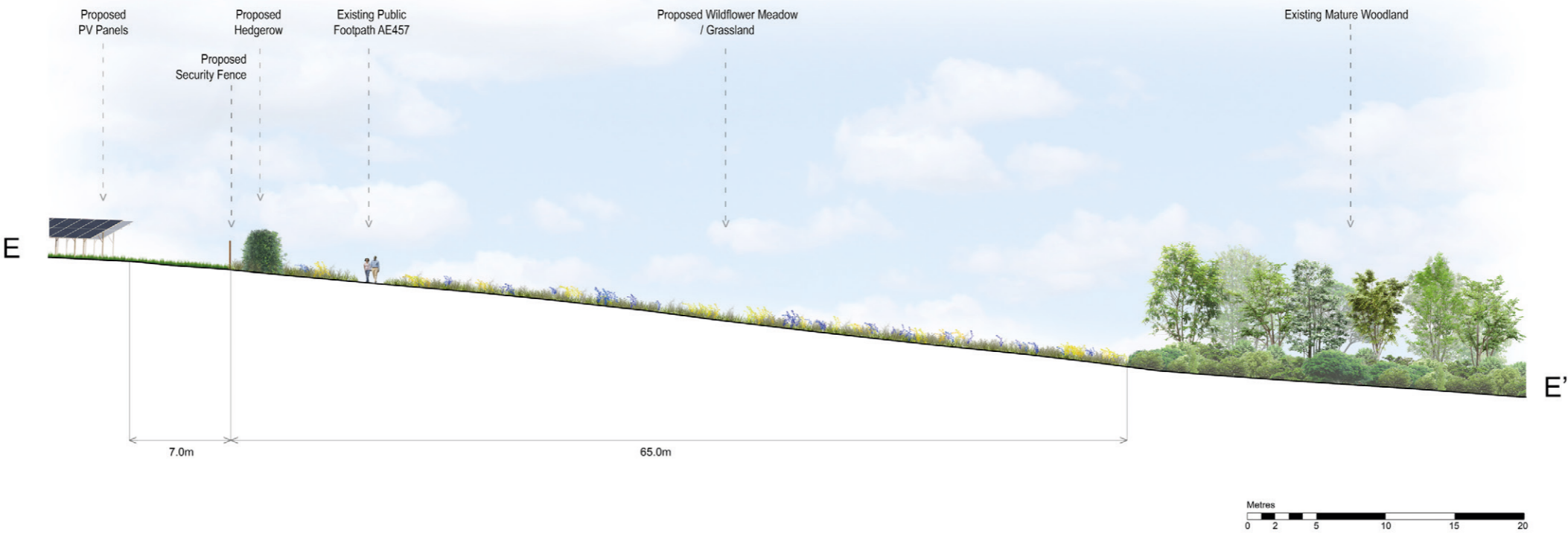


Fig 11.19: Cross-section E - E'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

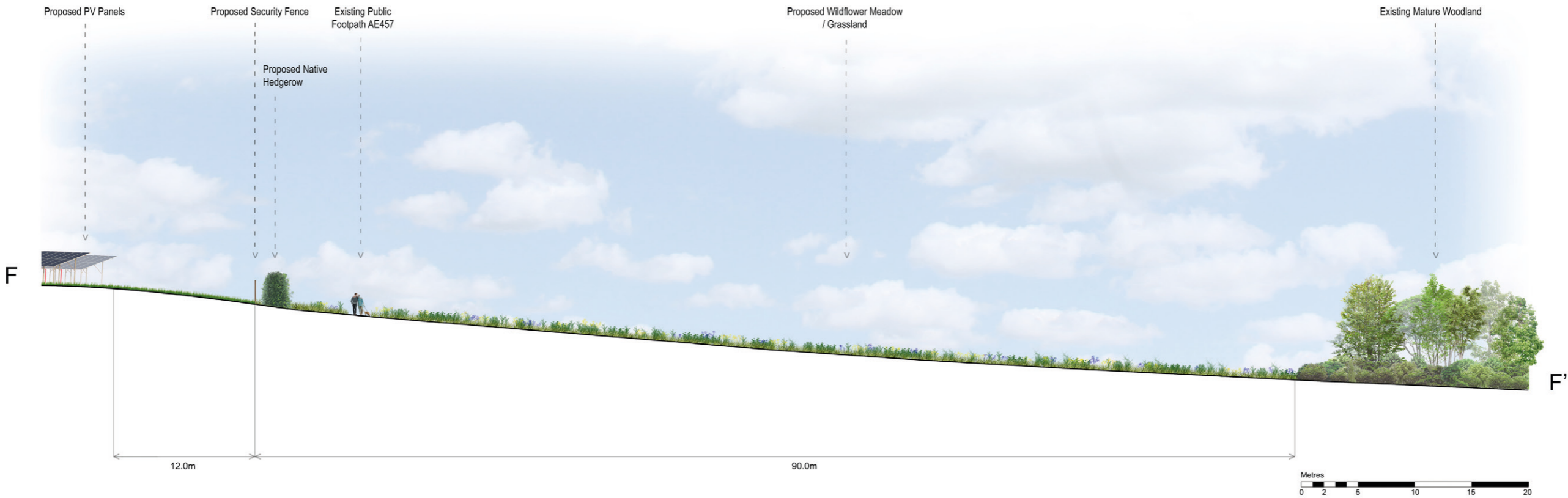


Fig 11.20: Cross-section F - F'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

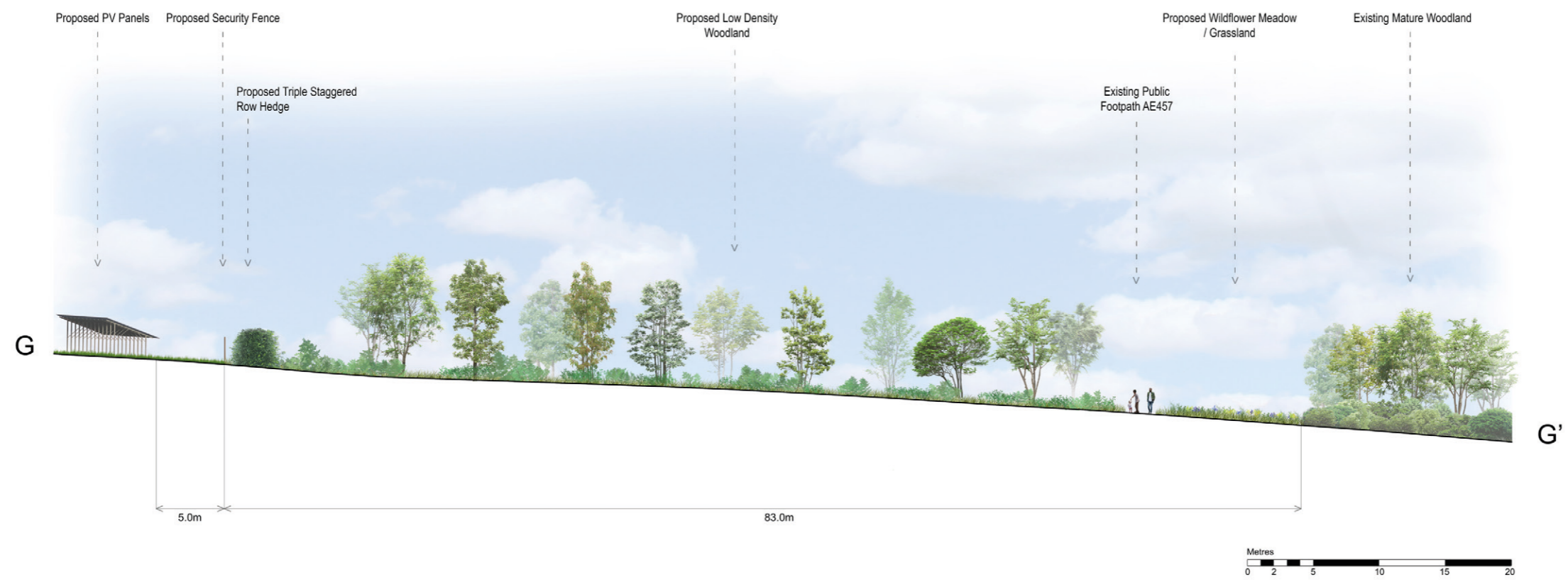


Fig 11.21: Cross-section G - G'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

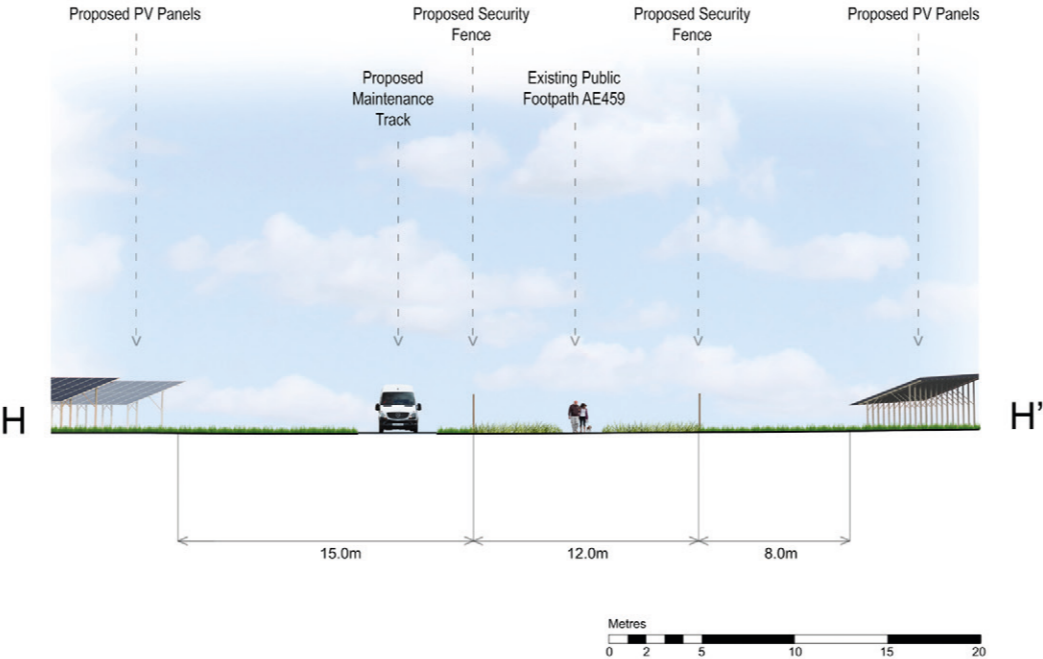


Fig 11.22: Cross-section H - H'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

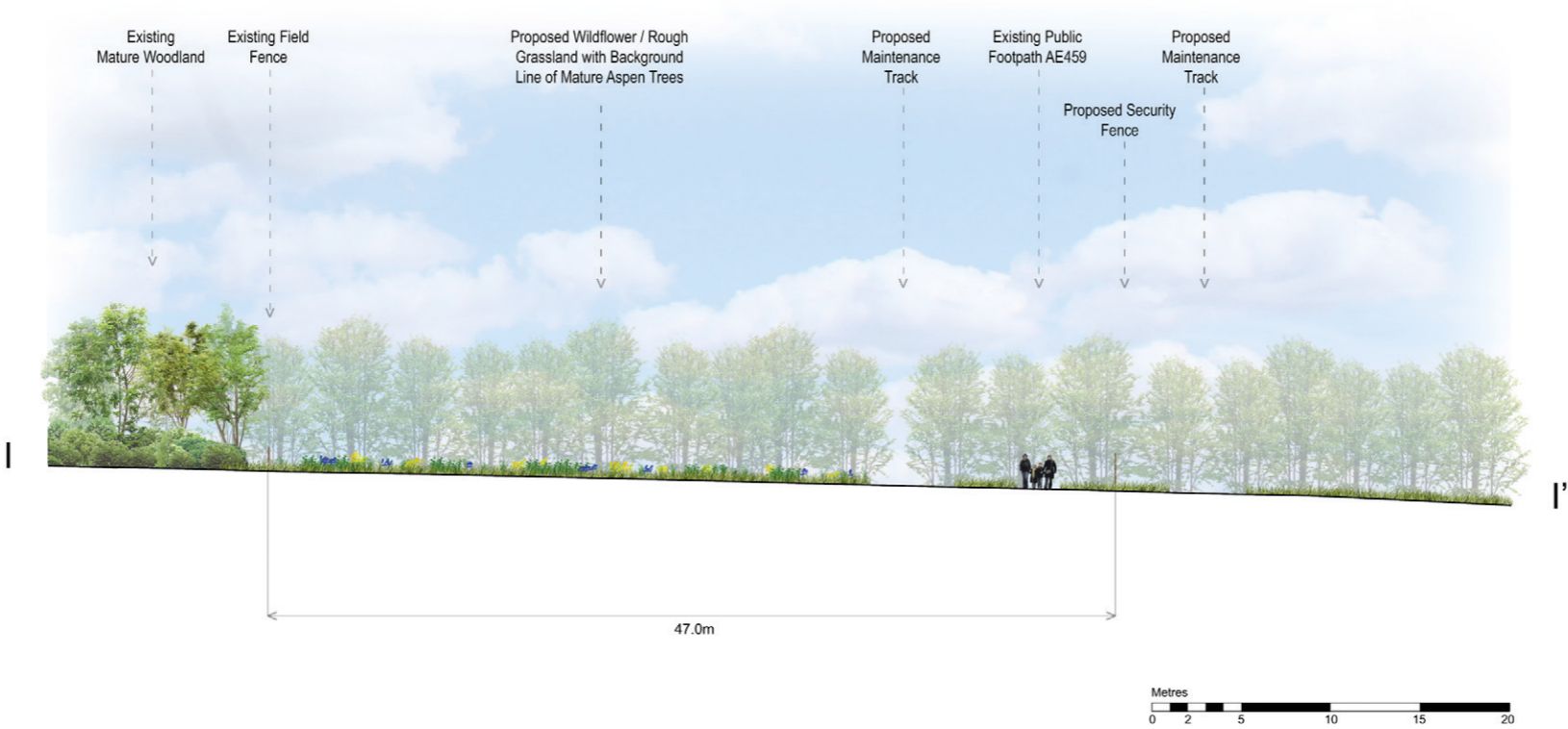


Fig 11.23: Cross-section I - I'

East Stour Solar Farm

Illustrative cross-section at year 10 post construction

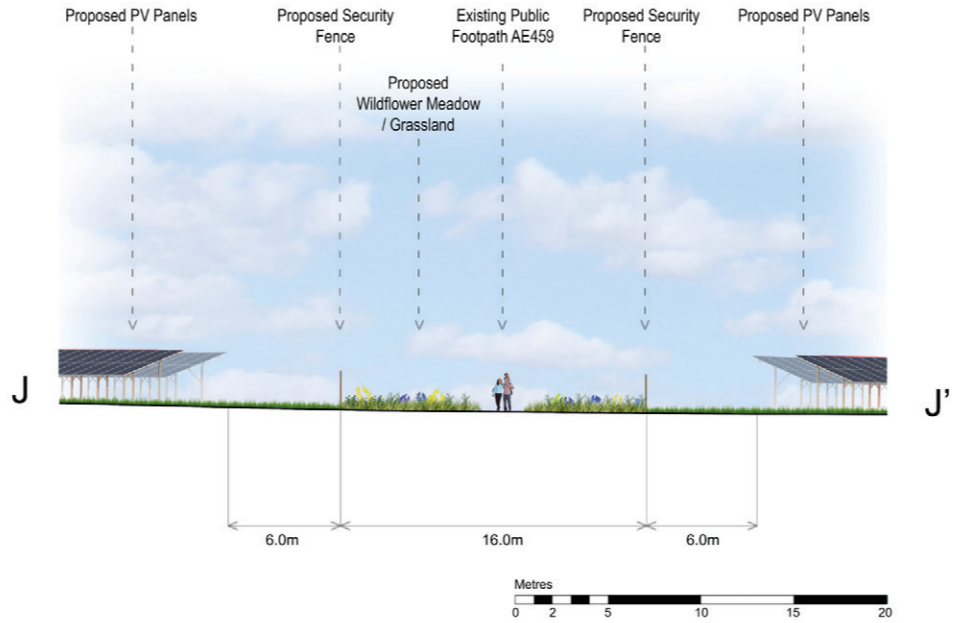
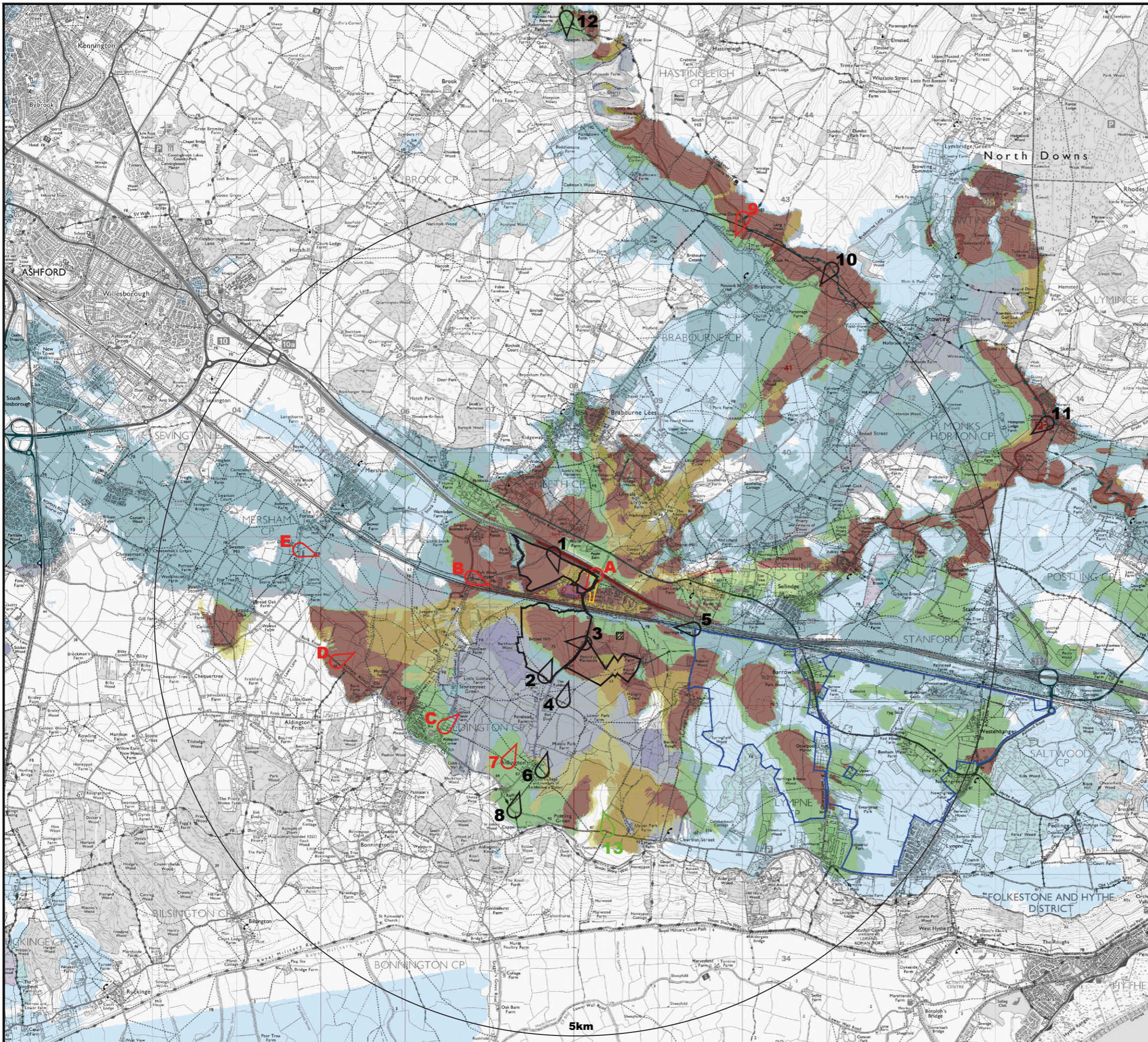


Fig 11.24: Cross-section J - J'

East Stour Solar Farm



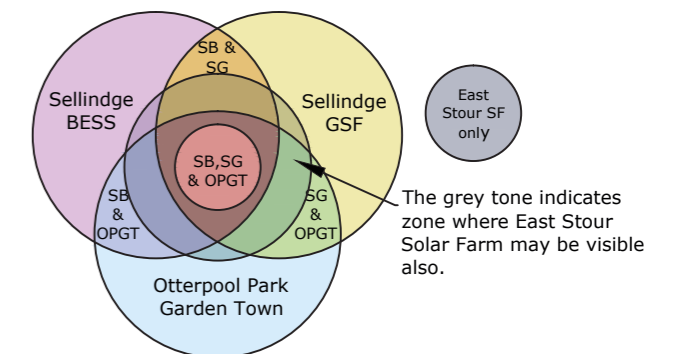
Project: **East Stour Solar Farm**



Key:

- East Stour approximate application boundary - (proposed) 3.0m AGL
- Sellindge BESS - (consented) 2.76m AGL
- Sellindge Grid Stability Facility - (consented) 12.0m AGL
- Otterpool Park Garden Town - (proposed) 12.0m, 15.0m & 18.0m AGL

Theoretical visibility of:



- East Stour LVIA viewpoint locations
- East Stour CLVIA viewpoint locations
- Additional AONB Viewpoint

Notes:

1. CZTV, generated 16th October 2023.
2. Predicted visibility is for observer eye level 2m above ground level.
3. The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
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Scale:

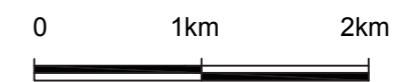
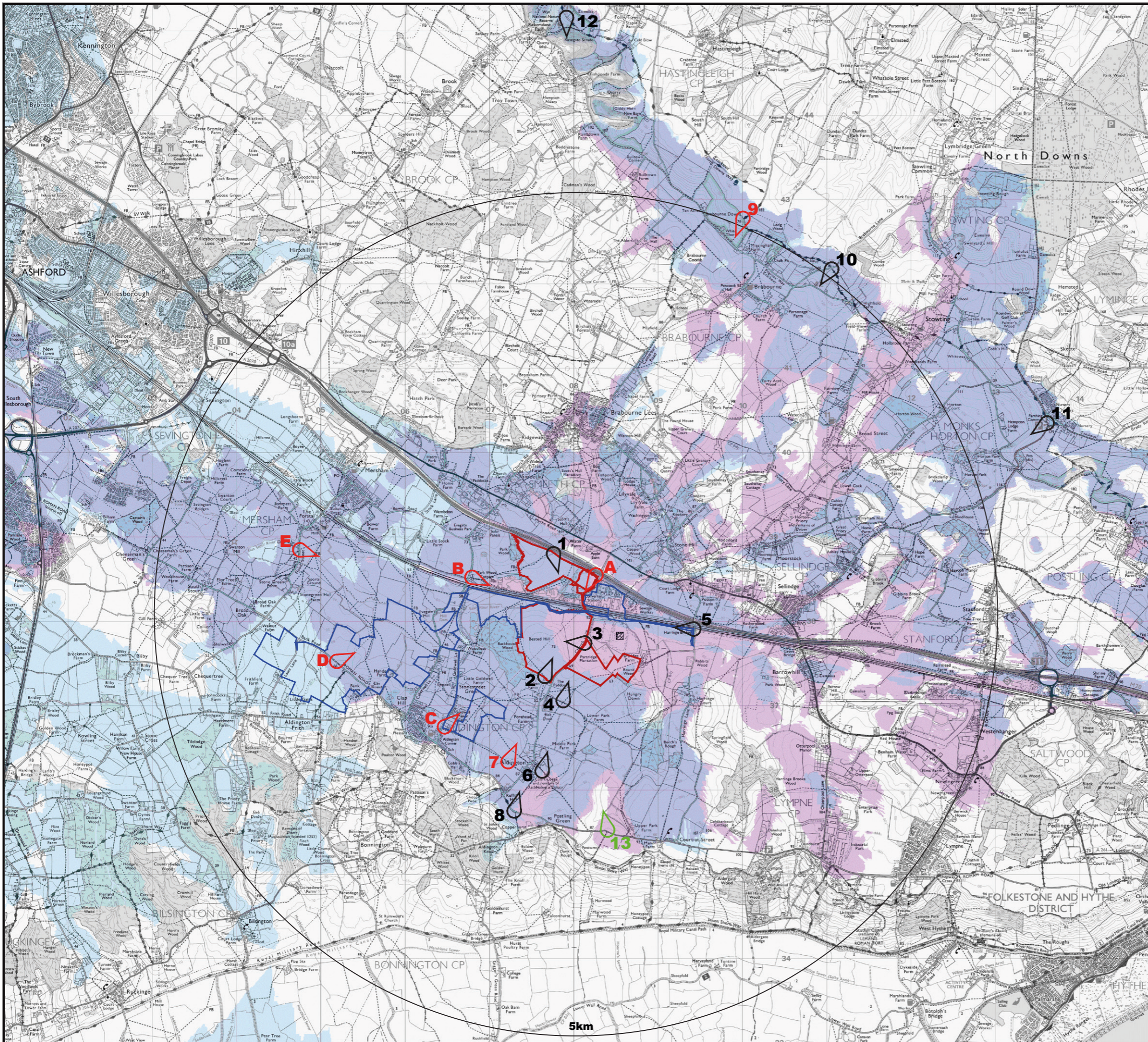


Figure: 11.25
Development Scenario 2

Drawn by: **BJD**
 Checked by:
 Date: **05-12-23**

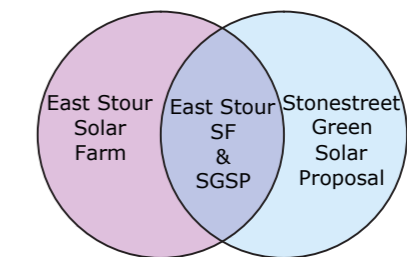


Project: **East Stour Solar Farm**



- Key:**
- East Stour approximate application boundary - (proposed) 3.0m AGL
 - Stonestreet Green Solar Proposal - (proposed) 3.2m AGL

Theoretical visibility of:



- 1 East Stour LVIA viewpoint locations
- A East Stour CLVIA viewpoint locations
- 13 Additional AONB Viewpoint

- Notes:**
1. CZTV, generated 16th October 2023.
 2. Predicted visibility is for observer eye level 2m above ground level.
 3. The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
 4. Created using Ordnance Survey digital 5m terrain data.
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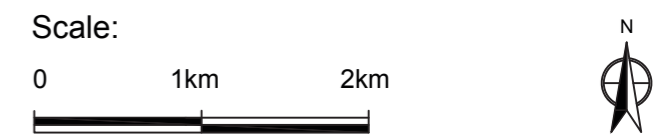


Figure: 11.26
Development Scenario 3

Drawn by: **BJD**
 Checked by:
 Date: **05-12-23**

