PDAS Appendix B – Landscape and Visual Impact Assessment

Supporting Figures - Part 1 of 2

Application Site

Main Site

Substation Site

N

0 500 750 1000m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 1

Figure Title

Site Location

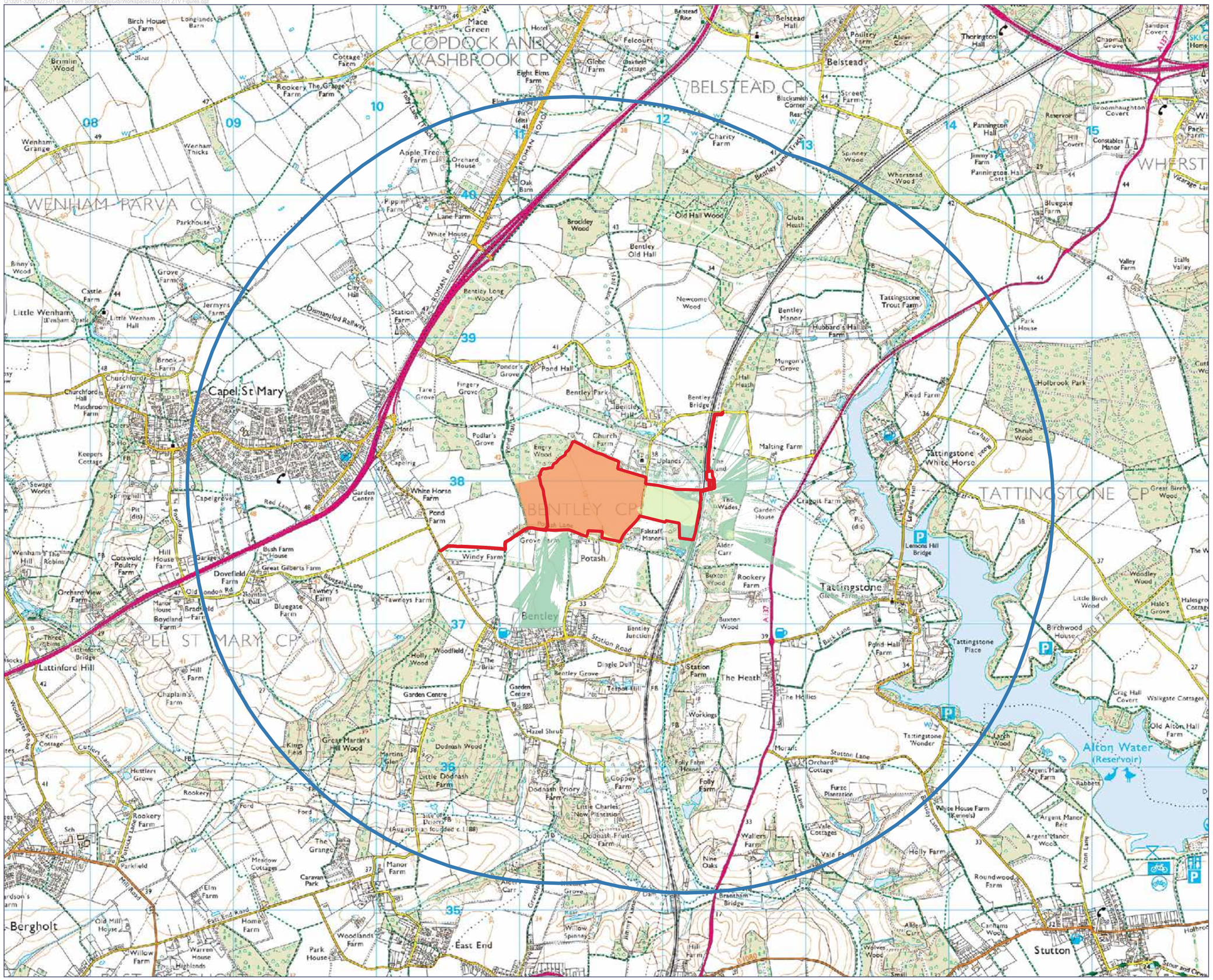
Scale

1:10,000 @A3

Date

June 2023

Q:\3201-3250\3223-01 Grove Farm Solar\Dwgs\GIS\Workspaces\3223-01 ZTV Figures.qgz



N

0 500 1,000 1,500 2,000 2,500 m

Application Site

Zone of Theoretical Visibility (ZTV) modelled area (2.5 km buffer)

ZTV of solar arrays at Main Site, modelled at 3m height:

- Approximately 1-20% of the development theoretically visible
- Approximately 21-40% of the development theoretically visible
- Approximately 41-60% of the development theoretically visible
- Approximately 61-80% of the development theoretically visible
- Approximately 81-100% of the development theoretically visible

1. ZTV has been generated using EA LiDAR 2m photogrammetric Digital Surface Model (DSM) data, which reflects the presence of vegetation, buildings and other structures.

2. ZTV generation has allowed for the curvature of the earth, and for light refraction.

3. ZTV has been generated based upon an observer eye height of 1.7m above ground level.

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Project

Grove Farm Solar

Figure Number

LVIA Figure 2

Figure Title

Zone of Theoretical Visibility Main Site

Scale

1:25000@A3

Date

June 2023

Application Site

Zone of Theoretical Visibility (ZTV) modelled area (2.5km buffer)

ZTV of substation gantries at Substation Site, modelled at 7.2m height:

Area in which development theoretically visible

1. ZTV has been generated using EA LiDAR 2m photogrammetric Digital Surface Model (DSM) data, which reflects the presence of vegetation, buildings and other structures.

2. ZTV generation has allowed for the curvature of the earth, and for light refraction.

3. ZTV has been generated based upon an observer eye height of 1.7m above ground level.

N

0 500 1,000 1,500 2,000 2,500 m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 3

Figure Title

Zone of Theoretical Visibility Substation Site

Scale

1:25000@A3

Date

June 2023

Q:\3201-3250\3223-01 Grove Farm Solar\Dwgs\GIS\Workspaces\3223-01 LVIA Study Area.qgz

Application Site

LVIA Study Area

N

0 250 500 750 1,000 1,200 m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 4

Figure Title

LVIA Study Area

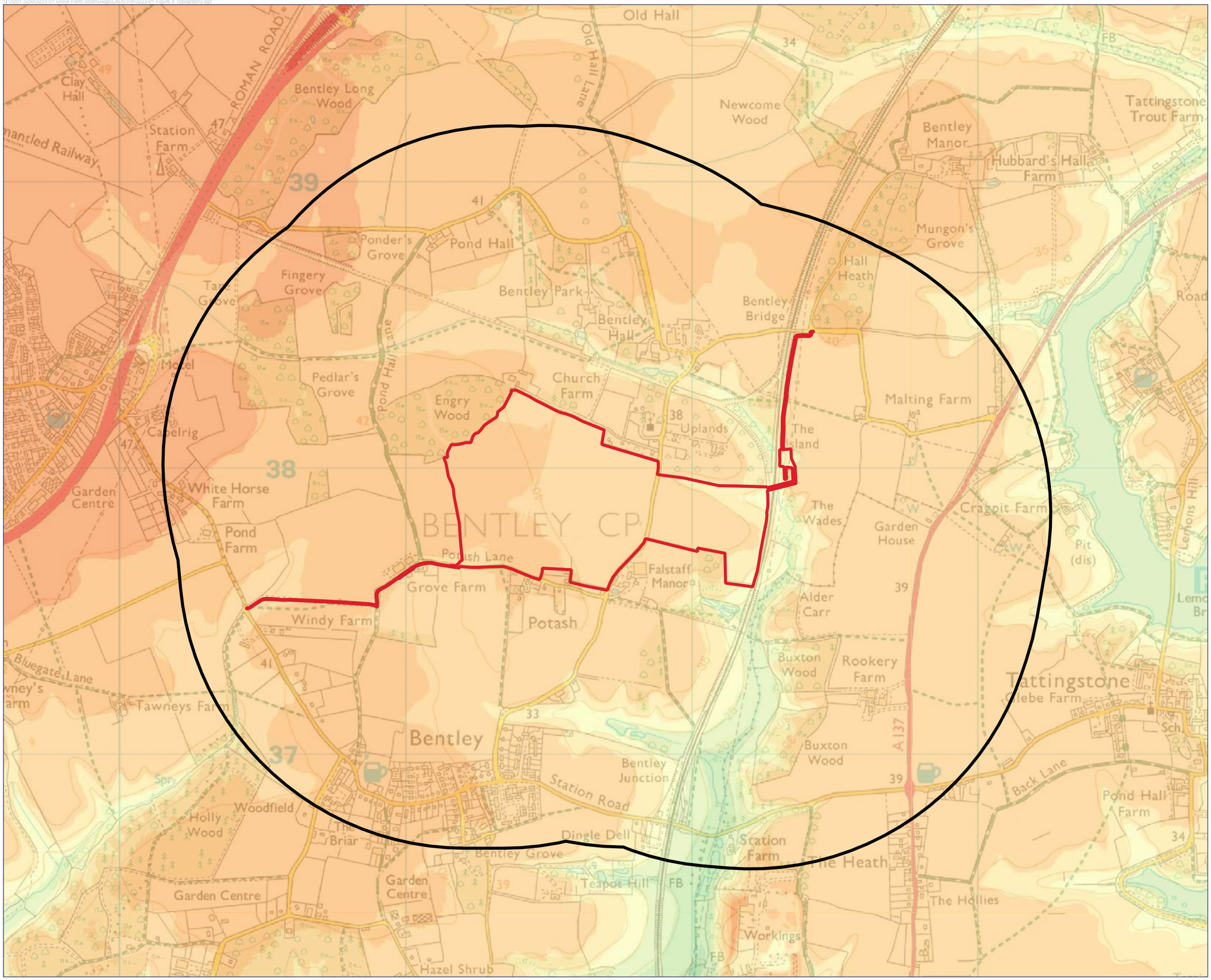
Scale

1:12500@A3

Date

June 2023

Q:\3201-3250\3223-01 Grove Farm Solar\Dwgs\CAD\LVIA\3223-01 Figure X Topography.qgz



Application Site

LVIA Study Area

Topography (metres above ordnance datum):

- <= 5
- 5 - 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- > 70

N

0 250 500 750 1,000 1,200 m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 5

Figure Title

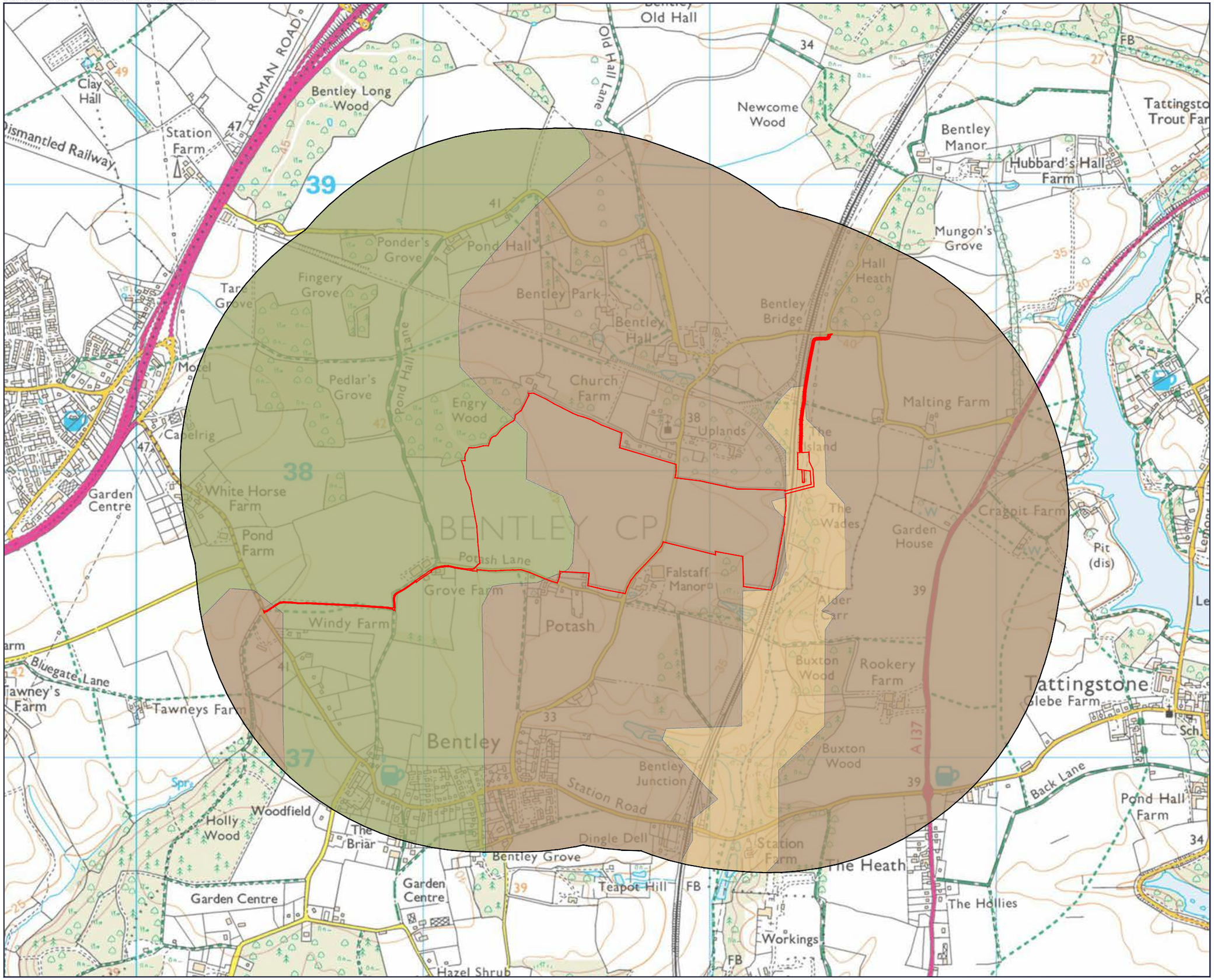
Topography

Scale

1:12500@A3

Date

June 2023



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Project

Grove Farm Solar

Figure Number

LVIA Figure 6

Figure Title

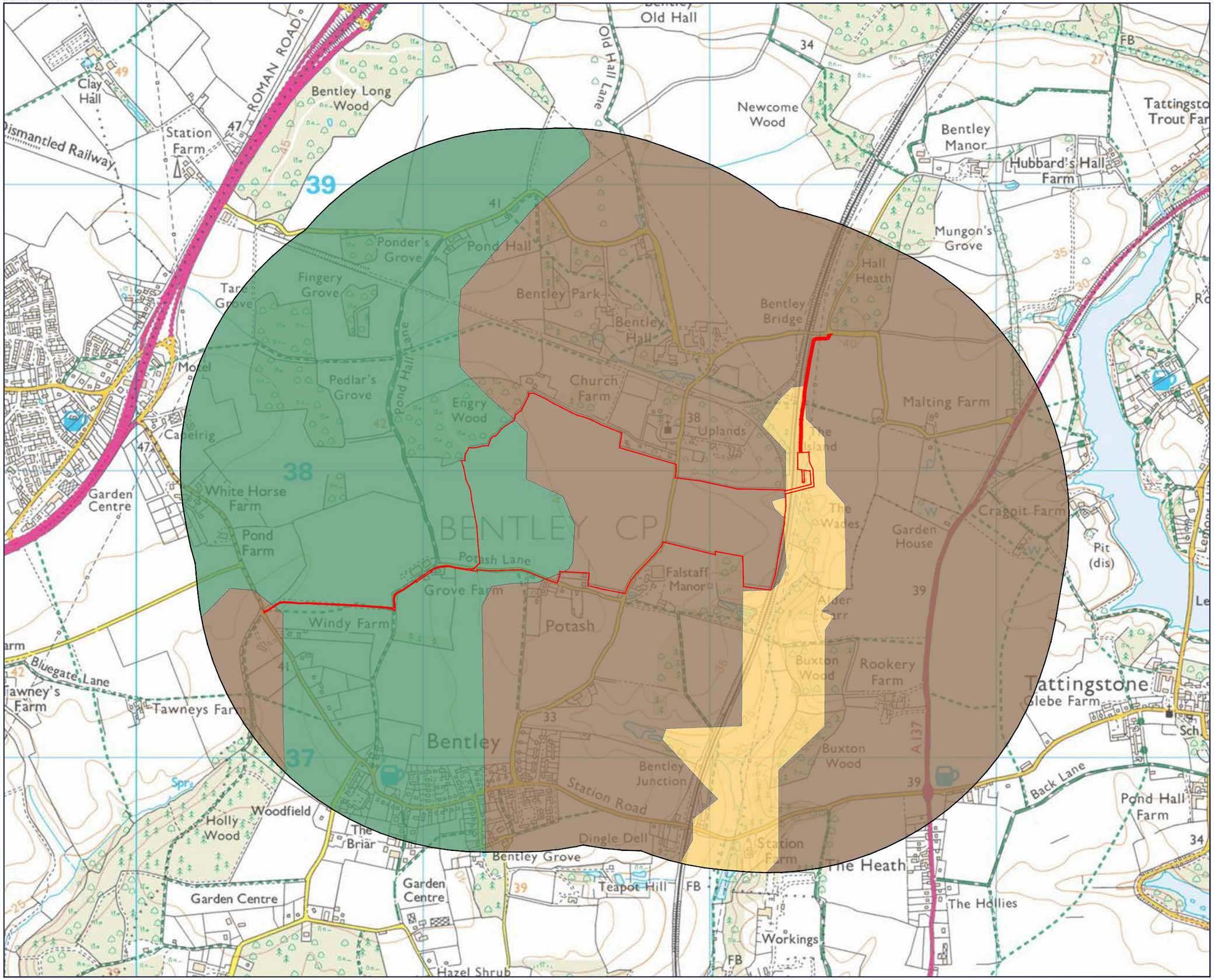
Regional Landscape Character Types

Scale

1:12,500 @A3

Date

June 2023



Application Site

LVIA Study Area

Babergh and Mid Suffolk Joint Landscape Guidance Landscape Character Areas (LCA):

- LCA 1 Wooded Estate Claylands
- LCA 2 Ancient Estate Farmlands
- LCA 18: Rolling Valley Farmlands

Note: *the boundaries of the Suffolk (County) Landscape Character Types are identical to those at the District level shown on this figure.*

N

0 500 750 1000 1250m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 7

Figure Title

District Landscape Character Areas

Scale

1:12,500 @A3

Date

June 2023

Q:\3201-3250\3223-01 Grove Farm Solar\Dwgs\GIS\Workspaces\3223-01 Viewpoint Locations.qgz

Application Site

LVIA Study Area

Viewpoint Locations (numbered)

BENTLEY CP

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N

0 250 500 750 1,000 1,200 m

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Grove Farm Solar

Figure Number

LVIA Figure 8

Figure Title

Viewpoint Locations

Scale

1:12500@A3

Date

June 2023

Proposed woodland belt to connect woodland blocks and provide long-term visual screening

Offset to avoid veteran tree

Offset to ancient woodland is greater than root protection area of trees to avoid impacts. The land between fenceline and woodland will be actively managed to naturally re-wild as woodland edge.

Field access kept open to retain open aspect onto fields in views from Church Lane, and to provide access for farming/landscape maintenance

Proposed woodland belt around DNO Substation to screen it, and tie-in to woodland mosaic to south.

Land retained in agricultural use

Offset to avoid veteran tree

Short sections of hedgerow at access points to limit glimpsed views into the site for people moving along Church Lane

Proposed woodland belt along field edge

Proposed gapping up of existing hedgerow

No landscape proposals along upgraded existing access track west of this point

Meadows informed by historic landscape pattern as a buffer between houses to south and solar fenceline, and for ecological benefit.

Field access kept open to retain open aspect onto fields in views from Church Lane, and to provide access for farming/landscape maintenance

- Site Boundary
- Deer / Stock Fencing
- Proposed Native Species Woodland
- Proposed Native Species Hedgerow
- Proposed Hedgerow Tree
- Grazing Pasture
- Species Diverse Grassland
- Access Track
- Proposed Managed Rewilding
- Existing Vegetation (illustrative)
- Existing Hedgerows (illustrative)

N

0 100 200 300 400 500m

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Project

Grove Farm Solar

Figure Number

LVIA Figure 9

Figure Title

Landscape Proposals

Scale

1:5000 @A3

Date

June 2023

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Project

Grove Farm Solar

Figure Number

LVIA Figure 10

Figure Title

Post Decommissioning

Scale

1:5000 @A3

Date

June 2023