Figure 9.6

Solar PV Detailed Screening ZTVs

Extent of figure 9.5b

Extent of figure 9.5c

Extent of figure 9.5d

NORTH KESTEVEN DISTRICT

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Viewpoints
- Existing Woodland and Vegetation higher than 2.5m
- Solar PV Modules may be visible
- Extent of Detail Sheets

NOTES:
Layout file: D004-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. The locations of buildings have been taken from the OS Open Map Local dataset and vegetation/woodland from the Environment Agency's Vegetation Object Model (2021) dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m^2 resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

Rev	Date	Description	Drn	Chk	App
00	24/10/2023	First Issue	MP	JI	

Springwell Solar Farm

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DOCUMENT:
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TITLE:
Detailed ZTV of Solar PV Modules

FIGURE NUMBER:
9.6a

0 1 2
Kilometers

Scale: 1:60,000 @ A3

REV 00

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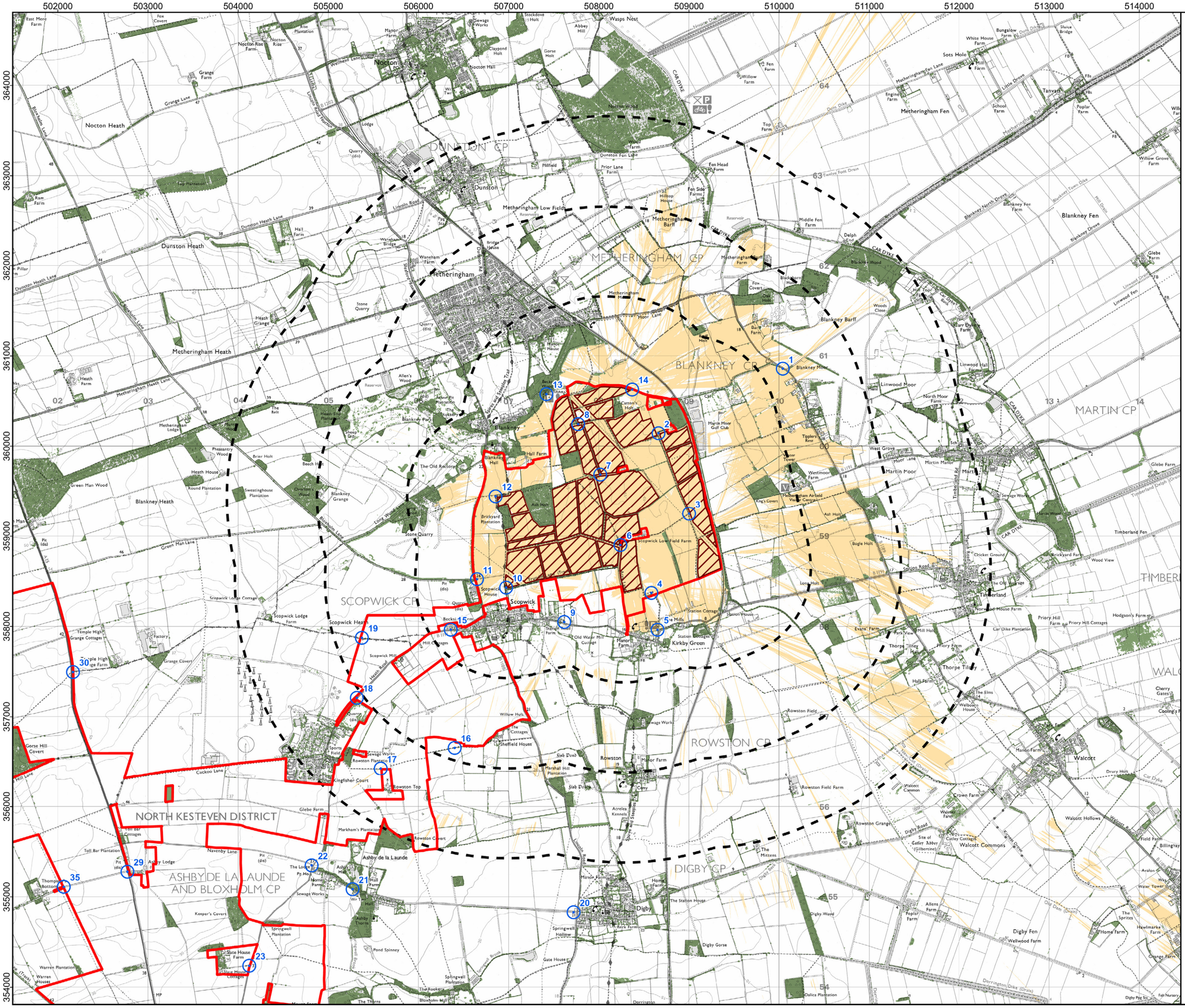

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Viewpoints
- Existing Woodland and Vegetation higher than 2.5m
- Solar PV Modules may be visible

NOTES:
Layout file: D004-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
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The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m^2 resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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DOCUMENT:
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TITLE:
Detailed Screening ZTV of Solar PV Modules - East Parcel

FIGURE NUMBER:
9.6b

0 0.5 1
Kilometers

Scale: 1:40,000 @ A3

REV 00

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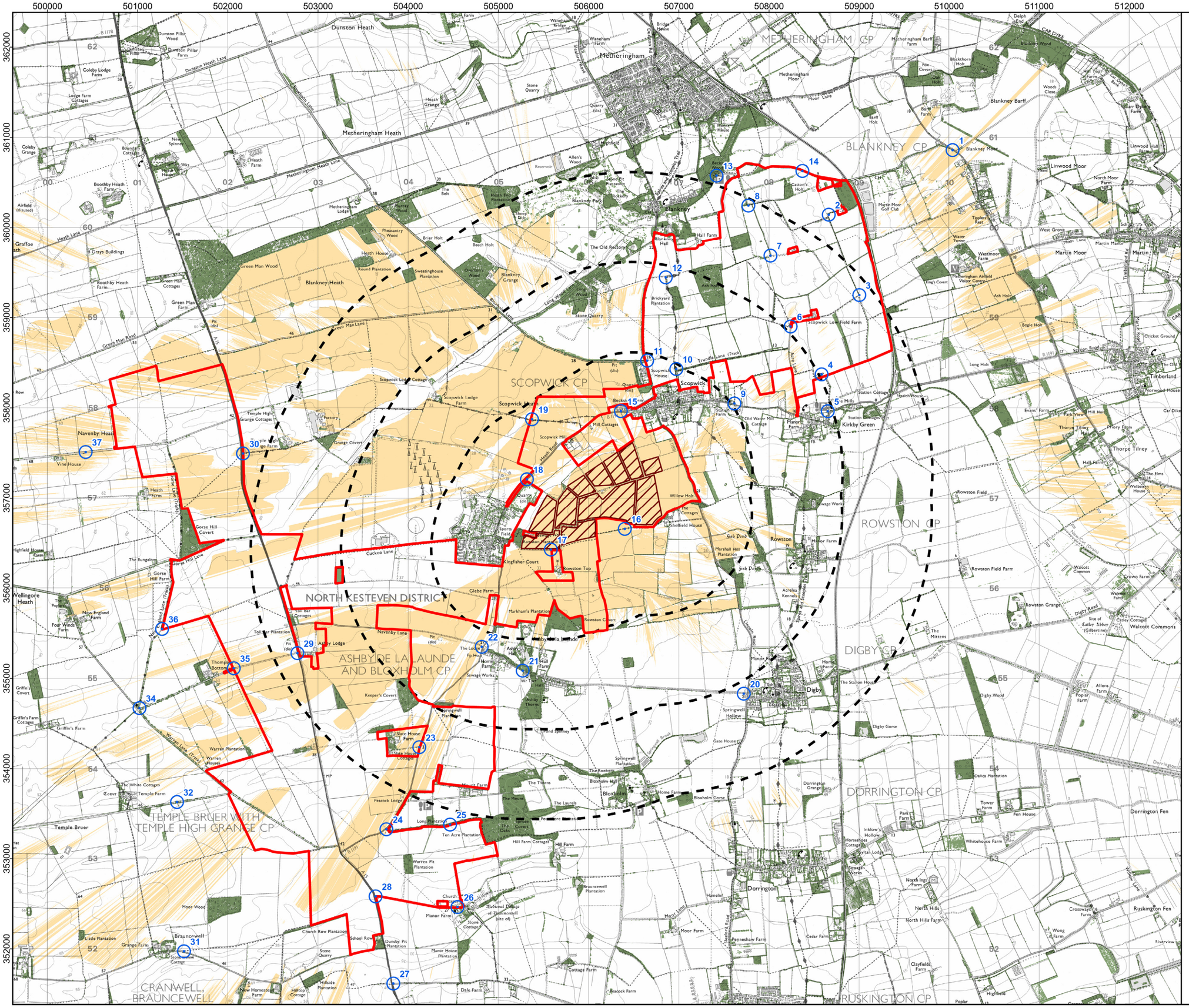

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Viewpoints
- Existing Woodland and Vegetation higher than 2.5m
- Solar PV Modules may be visible

NOTES:
Layout file: D004-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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Springwell Solar Farm

DOCUMENT:
PEIR

TITLE:
Detailed Screening ZTV of Solar PV Modules - Central Parcel

FIGURE NUMBER:
9.6c

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

REV 00

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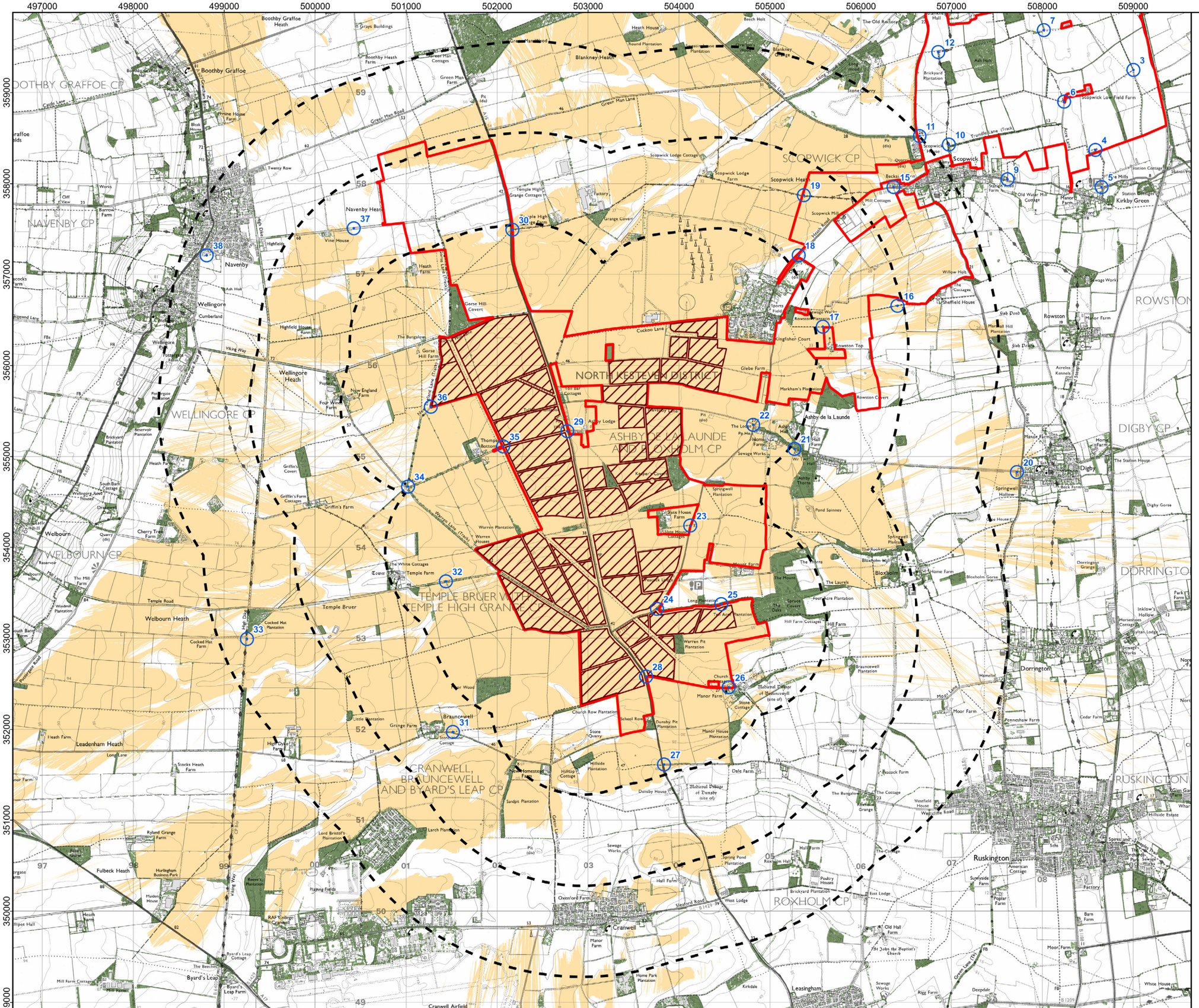

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Viewpoints
- Existing Woodland and Vegetation higher than 2.5m
- Proposed Solar PV Modules may be visible

NOTES:
Layout file: D004-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
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The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m^2 resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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DOCUMENT:
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TITLE:
Detailed Screening ZTV of Solar PV Modules - West Parcel

FIGURE NUMBER:
9.6d

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

REV 00

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