

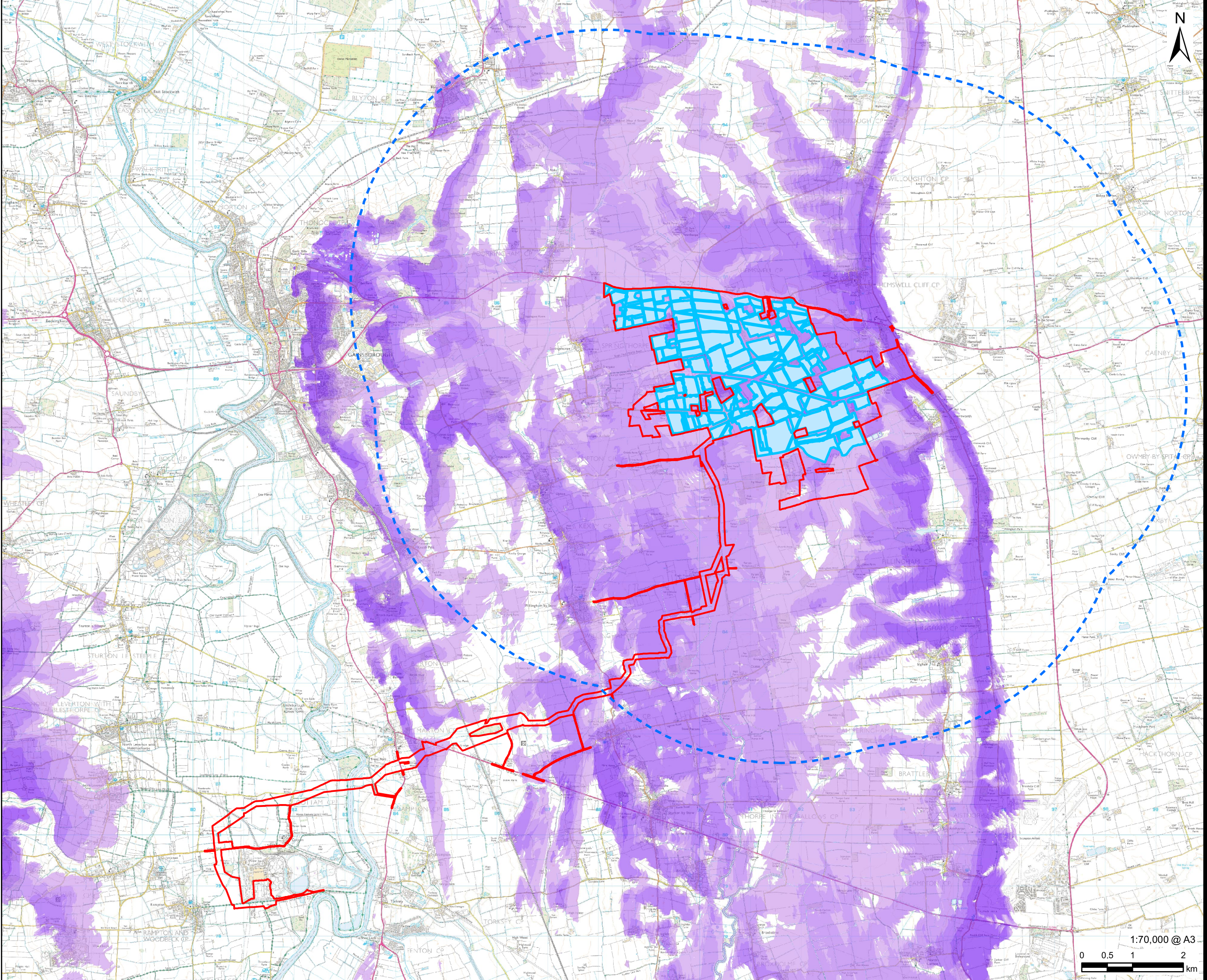
Tillbridge Solar Project
EN010142

Volume 6
Environmental Statement
Figure 12-4A-H: Zones of Theoretical Visibility
Document Reference: EN010142/APP/6.3

Regulation 5(2)(a)
Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

June 2024
Revision Number: 01

tillbridgesolar.com



LEGEND

- Order limits
- Principal Site - 5km Buffer
- Indicative Solar Panel Boundary

Zone of Theoretical Visibility - Degree of Maximum Visibility of the Solar Panel Area

- Not Visible
- 1- 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%

NOTES

Contains Ordnance Survey Data © Crown Copyright and database right 2024. All content is available under the Open Government licence v3.0 unless otherwise stated © Crown Copyright 2024.

1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the indicative solar panel area with an anticipated panel height of 3.5m and an observer height of 1.5m. It does not reflect all theoretical visibility arising from panels located within the external solar panel boundary.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and is based on a 'bare earth' model that does not include effects of screening derived from buildings or vegetation.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE

DCO Submission

PROJECT NUMBER

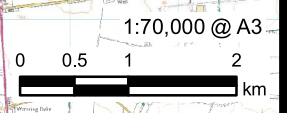
60677969

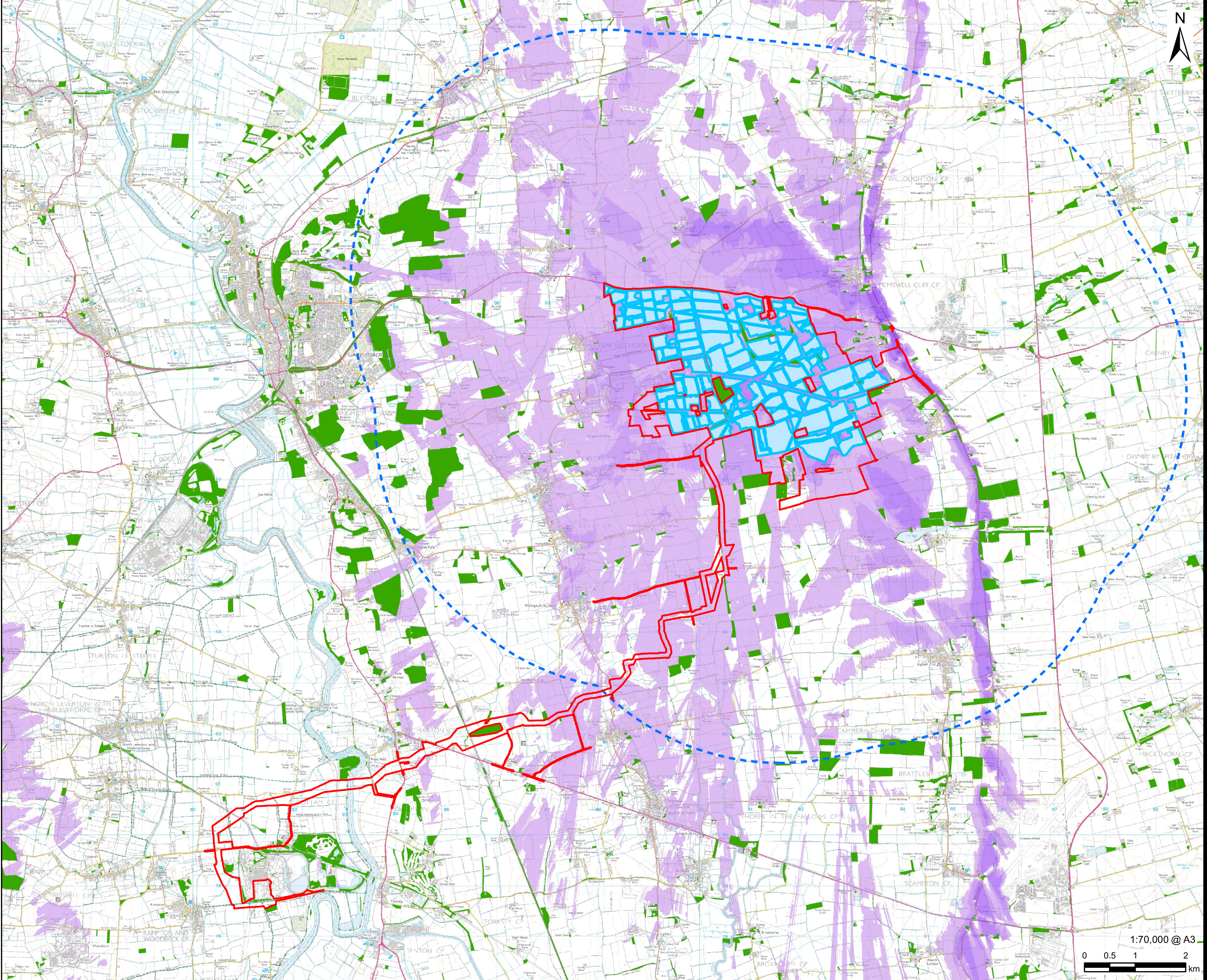
FIGURE TITLE

Zone of Theoretical Visibility - Panels Bare Earth

FIGURE NUMBER

Figure 12-4a





AECOM

PROJECT
Tillbridge Solar Project

CLIENT
Tillbridge Solar Ltd

CONSULTANT
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom
T +44-0207-645-2000

LEGEND

- Order limits
- Principal Site - 5km Buffer
- Indicative Solar Panel Boundary
- Building
- Woodland

Zone of Theoretical Visibility - Degree of Maximum Visibility of the Solar Panels Area

- Not Visible
- 1 - 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%

NOTES

Contains Ordnance Survey Data © Crown Copyright and database right 2024. All content is available under the Open Government licence v3.0 unless otherwise stated © Crown Copyright 2024.

- The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the indicative solar panel area with an anticipated panel height of 3.5m and an observer height of 1.5m. It does not reflect all theoretical visibility arising from panels located within the external solar panel boundary.
- The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
- The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
- ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
- Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
DCO Submission

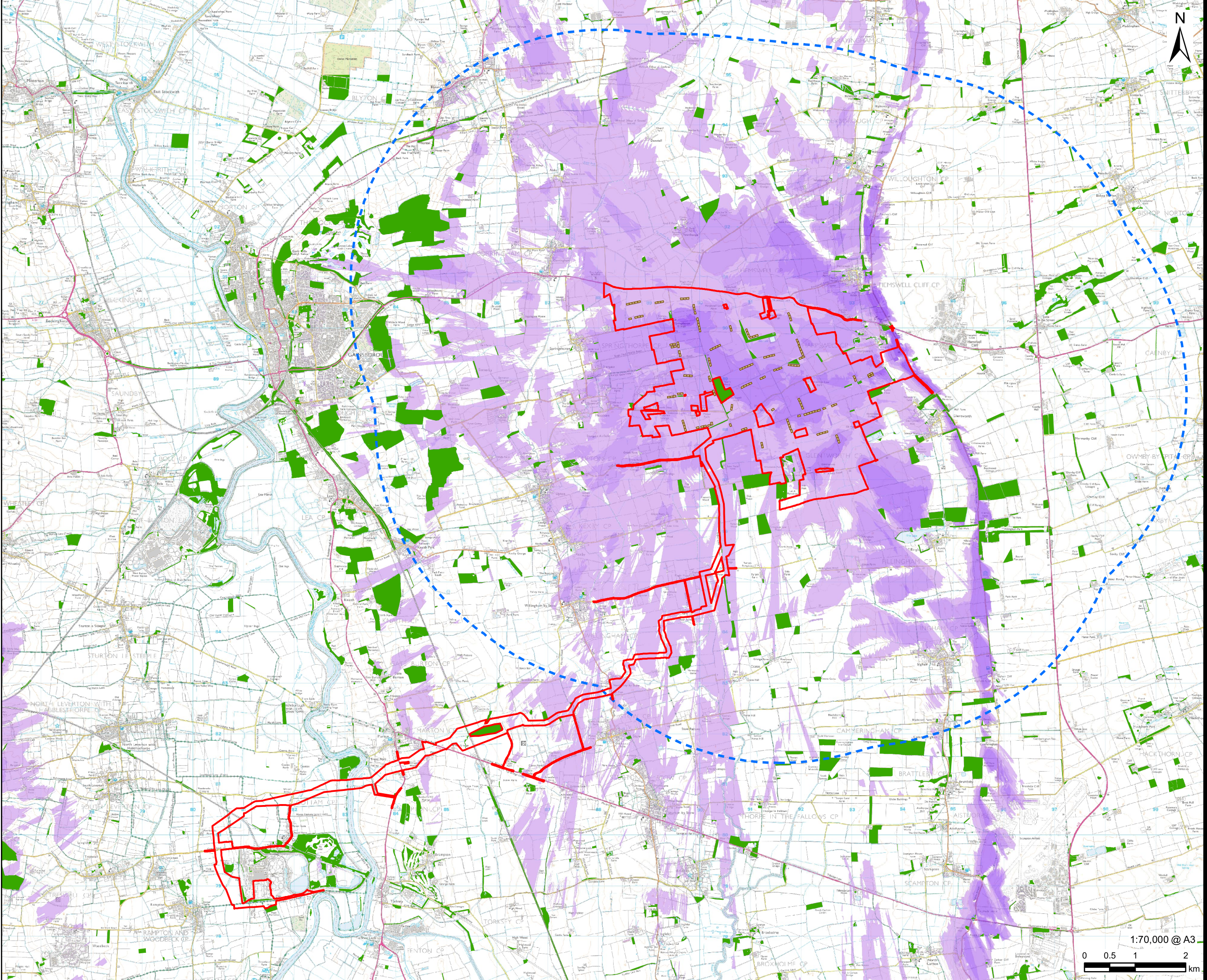
PROJECT NUMBER
60677969

FIGURE TITLE
Zone of Theoretical Visibility - Solar Panels with Buildings and Woodland Screening

FIGURE NUMBER
Figure 12-4b

1:70,000 @ A3
0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



PROJECT
 Tillbridge Solar Project

CLIENT
 Tillbridge Solar Ltd

CONSULTANT
 Aldgate Tower
 2, Leman Street
 London, E1 8FA
 United Kingdom
 T +44-0207-645-2000

- LEGEND**
- Order limits
 - Principal Site - 5km Buffer
 - Building
 - Woodland
 - Indicative BESS/Solar Station Boundary

- Zone of Theoretical Visibility - Degree of Maximum Visibility of all Solar Stations/BESS Combined**
- Not Visible
 - 1 - 25%
 - 25 - 50%
 - 50 - 75%
 - 75 - 100%

NOTES

Contains Ordnance Survey Data © Crown Copyright and database right 2024. All content is available under the Open Government licence v3.0 unless otherwise stated © Crown Copyright 2024.

1. The Zone of Theoretical Visibility (ZTV) is based on points along the solar station/battery storage boundaries with an anticipated height of 4m and an observer height of 1.5m.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
 PEI Report

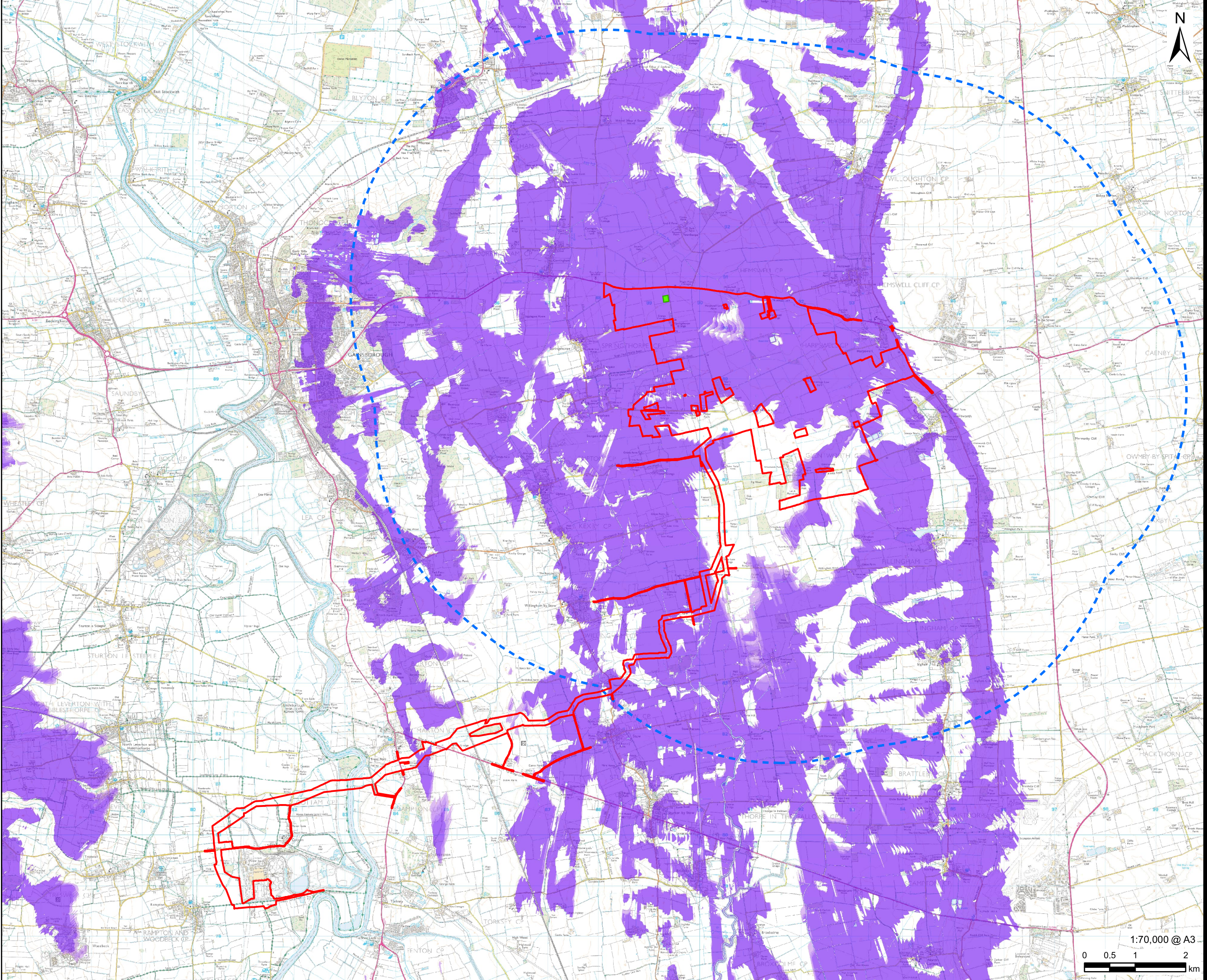
PROJECT NUMBER
 60677969

FIGURE TITLE
 Zone of Theoretical Visibility - Solar Stations and Battery Storage (BESS) with Buildings and Woodland Screening

FIGURE NUMBER
 Figure 12-4d

1:70,000 @ A3
 0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this document. All measurements must be obtained from the stated dimensions.



PROJECT
 Tillbridge Solar Project

CLIENT
 Tillbridge Solar Ltd

CONSULTANT
 Aldgate Tower
 2, Leman Street
 London, E1 8FA
 United Kingdom
 T +44-0207-645-2000

- LEGEND**
- Order limits
 - Principal Site - 5km Buffer
 - Indicative Location of Substation B

- Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation B Area**
- Not Visible
 - 1 - 25%
 - 25 - 50%
 - 50 - 75%
 - 75 - 100%

NOTES

Contains Ordnance Survey Data © Crown Copyright and database right 2024 All content is available under the Open Government licence v3.0 unless otherwise stated © Crown Copyright 2024.

1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the Substation A Area with an anticipated height of 10m and an observer height of 1.5m.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and is based on a 'bare earth' model that does not include effects of screening derived from buildings or vegetation.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
5. 5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
 DCO Submission

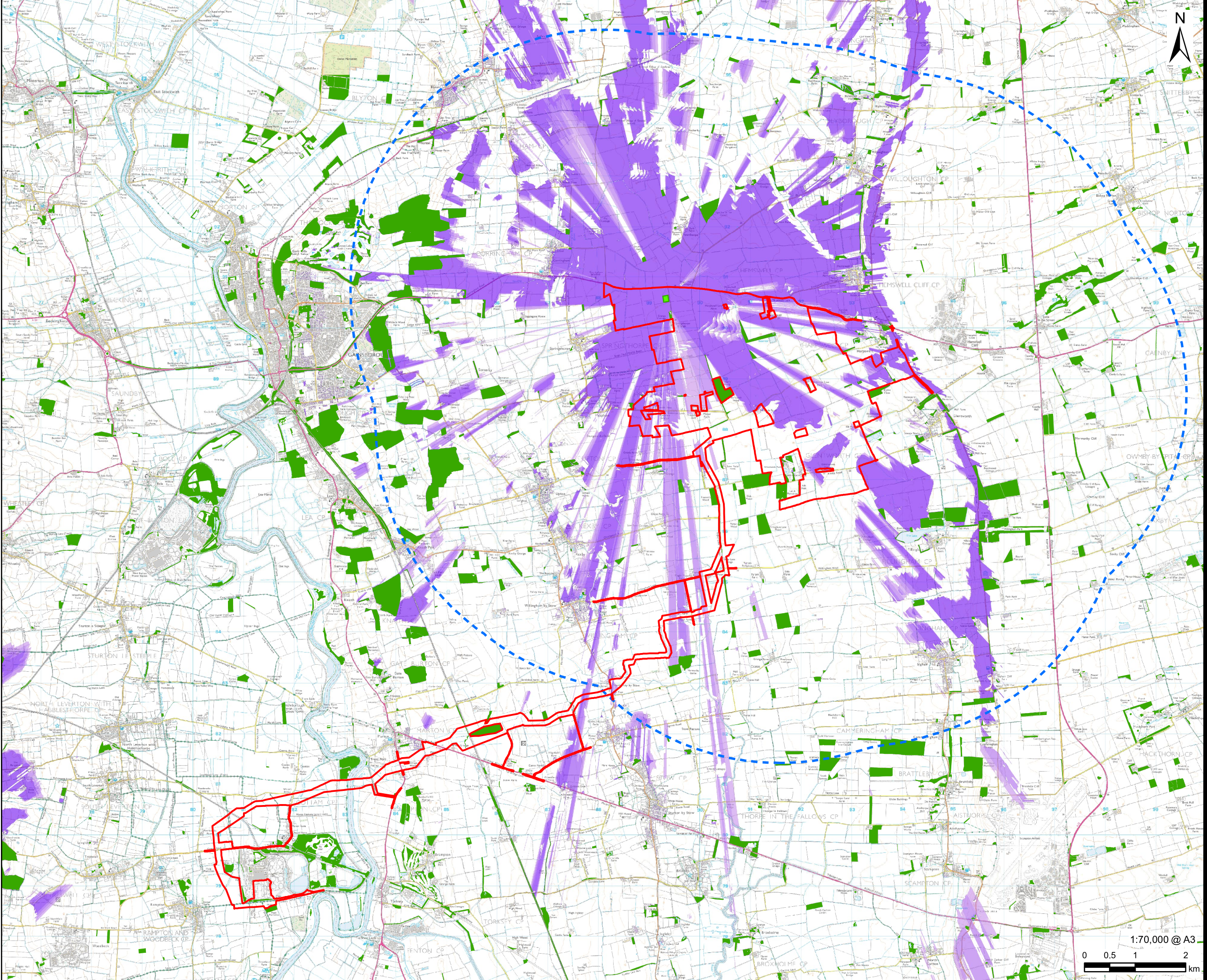
PROJECT NUMBER
 60677969

FIGURE TITLE
 Zone of Theoretical Visibility - Substation B Bare Earth

FIGURE NUMBER
 Figure 12-4e

1:70,000 @ A3
 0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



AECOM

PROJECT
 Tillbridge Solar Project

CLIENT
 Tillbridge Solar Ltd

CONSULTANT
 Aldgate Tower
 2, Leman Street
 London, E1 8FA
 United Kingdom
 T +44-0207-645-2000

LEGEND

- Order limits
- Principal Site - 5km Buffer
- Indicative Location of Substation B
- Building
- Woodland

Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation B Area

- Not Visible
- 1 - 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%

NOTES

1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the indicated Substation A Area with an anticipated station height of 10m and an observer height of 1.5m. It does not take account of theoretical visibility arising from panels within the solar panel area.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
 DCO Submission

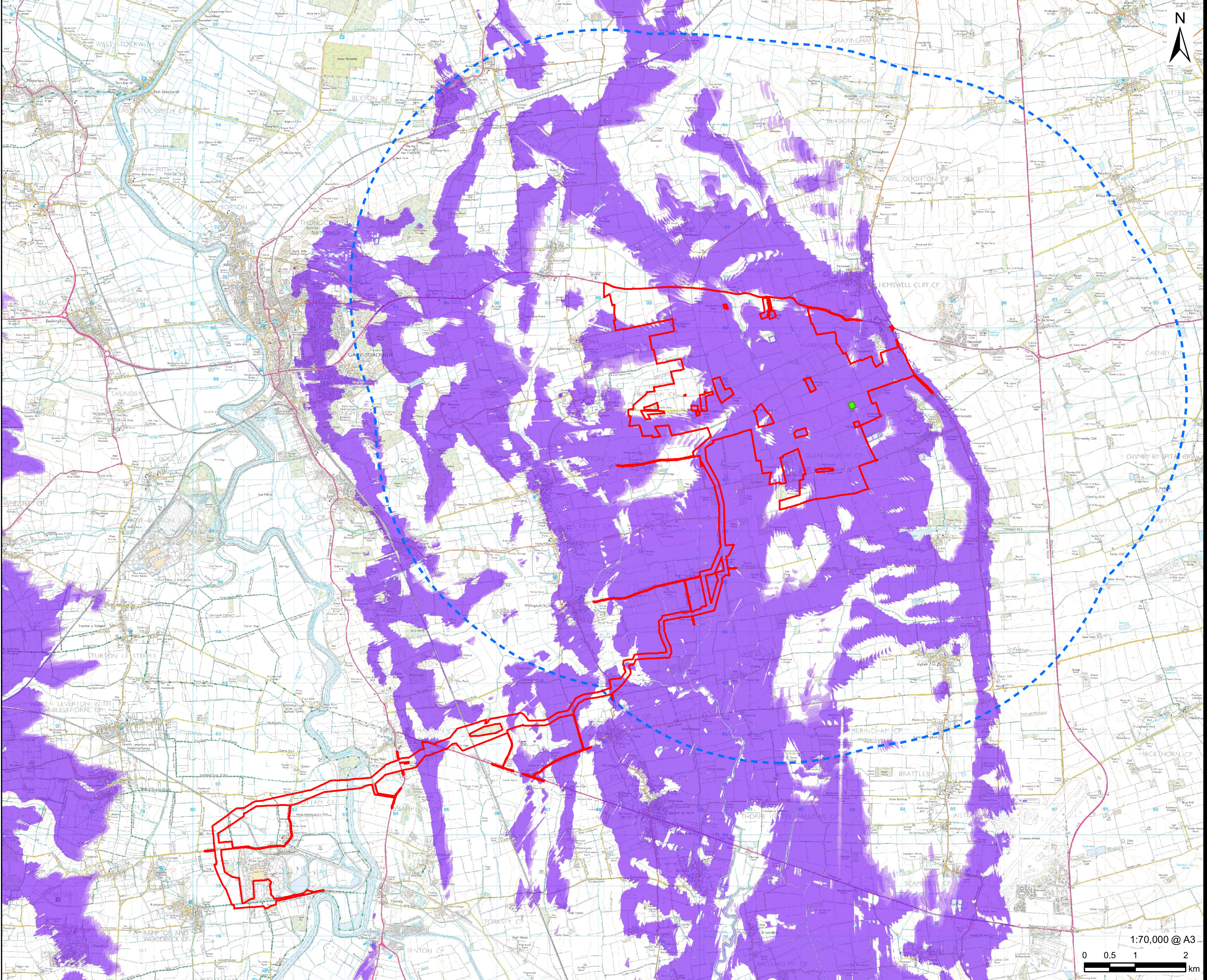
PROJECT NUMBER
 60677969

FIGURE TITLE
 Zone of Theoretical Visibility - Substation B with Buildings and Woodland Screening

FIGURE NUMBER
 Figure 12-4f

1:70,000 @ A3
 0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM's client. It may not be used, modified, reproduced or relied upon by any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



PROJECT
 Tillbridge Solar Project

CLIENT
 Tillbridge Solar Ltd

CONSULTANT
 Aldgate Tower
 2, Leman Street
 London, E1 8FA
 United Kingdom
 T +44-0207-645-2000

- LEGEND**
- Order limits
 - Principal Site - 5km Buffer
 - Indicative Location of Substation A
- Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation A Area**
- Not Visible
 - 1 - 25%
 - 25 - 50%
 - 50 - 75%
 - 75 - 100%

NOTES

Contains Ordnance Survey Data © Crown Copyright and database right 2024. All content is available under the Open Government licence v3.0 unless otherwise stated © Crown Copyright 2024.

1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the Substation B Area with an anticipated height of 10m and an observer height of 1.5m.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and is based on a 'bare earth' model that does not include effects of screening derived from buildings or vegetation.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
 DCO Submission

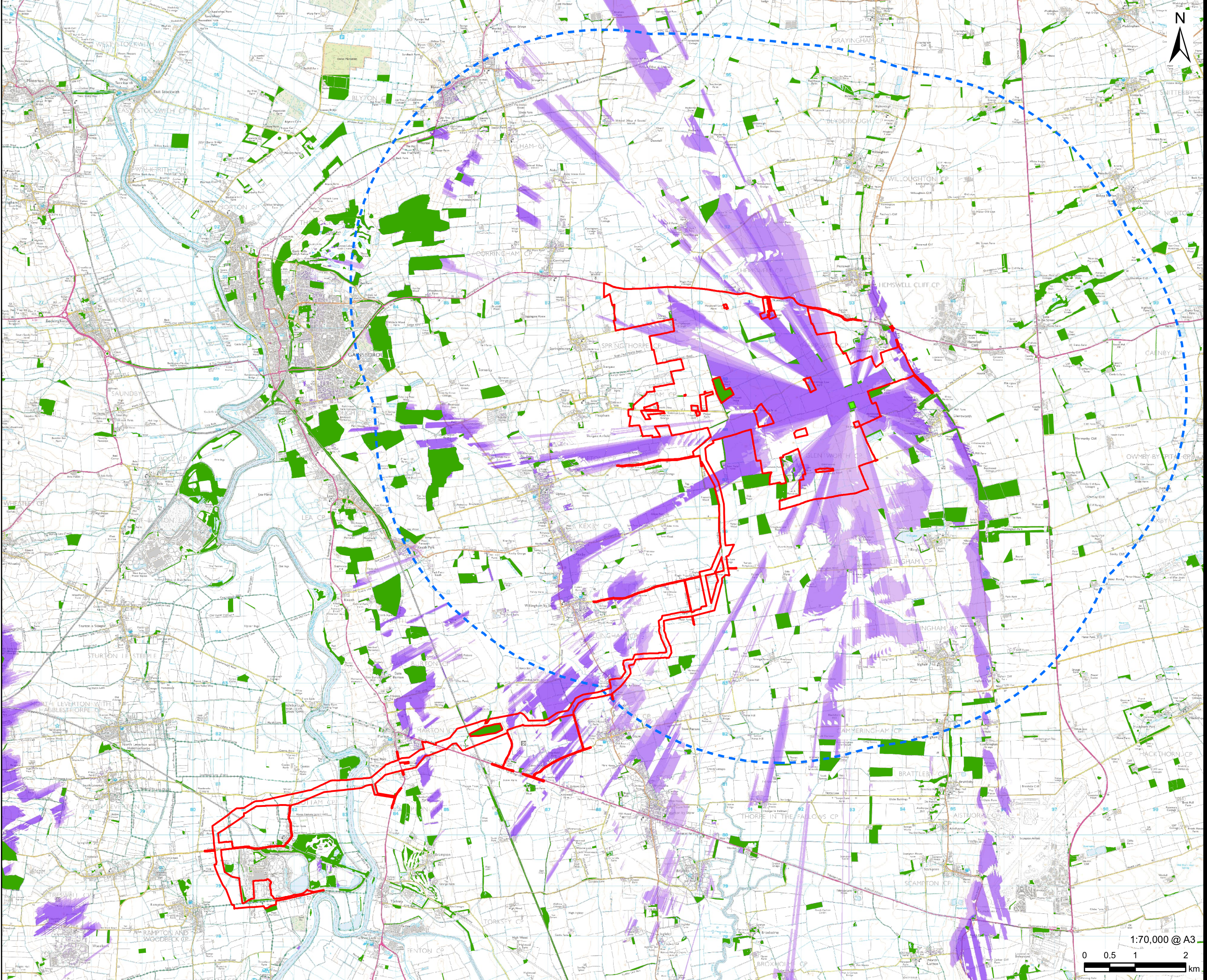
PROJECT NUMBER
 60677969

FIGURE TITLE
 Zone of Theoretical Visibility - Substation A Bare Earth

FIGURE NUMBER
 Figure 12-4g

1:70,000 @ A3
 0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this document. All measurements must be obtained from the stated dimensions.



PROJECT
Tillbridge Solar Project

CLIENT
Tillbridge Solar Ltd

CONSULTANT
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom
T +44-0207-645-2000

- LEGEND**
- Order limits
 - Principal Site - 5km Buffer
 - Indicative Location of Substation A
 - Building
 - Woodland
- Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation A Area**
- Not Visible
 - 1 - 25%
 - 25 - 50%
 - 50 - 75%
 - 75 - 100%

- NOTES**
1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the Substation B Area with an anticipated station height of 10m and an observer height of 1.5m. It does not take account of theoretical visibility arising from panels within the solar panel area.
 2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
 3. The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
 4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
 5. Reproduced from Ordnance Survey digital map data © Crown copyright 2024. All rights reserved. Licence number 0100031673.

ISSUE PURPOSE
DCO Submission

PROJECT NUMBER
60677969

FIGURE TITLE
Zone of Theoretical Visibility - Substation A with Buildings and Woodland Screening

FIGURE NUMBER
Figure 12-4h

1:70,000 @ A3
0 0.5 1 2 km

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this document. All measurements must be obtained from the stated dimensions.