

- VP1 RENTON BARN:
X:382387, Y:665910
- VP2 UPPER HOWPARK ROAD / JUNCTION
PROW TO COLDINGHAM:
X:383189, Y:667472
- VP3 LOWER HOWPARK ROAD:
X:382788, Y:666882
- VP4 SOUTHERN UPLAND WAY ABOVE
HARELAWSIDE:
X:380919, Y:666143
- VP5 LOCAL ROAD NEAR BUTTERDENE:
X:379885, Y:665046
- VP6 HIGHVIEW CARAVAN PARK:
X:384597, Y:666389
- VP7 LOCAL FOOTPATH SOUTH OF PROPOSED
DEVELOPMENT:
X:383682, Y:665914

LEGEND

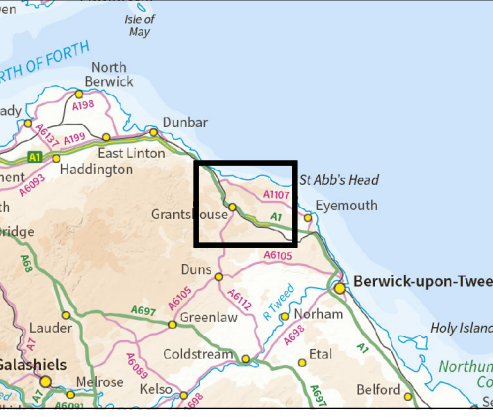
- Site Boundary
- Landscape Study Area 5 km Buffer
- Proposed Solar Array
- Viewpoint
- Other Receptor

**Zone of Theoretical Visibility (ZTV):
Bare Earth Scenario**

- High
- Low

Note:
This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 5km from solar array. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using NatureScot guidance settings. The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

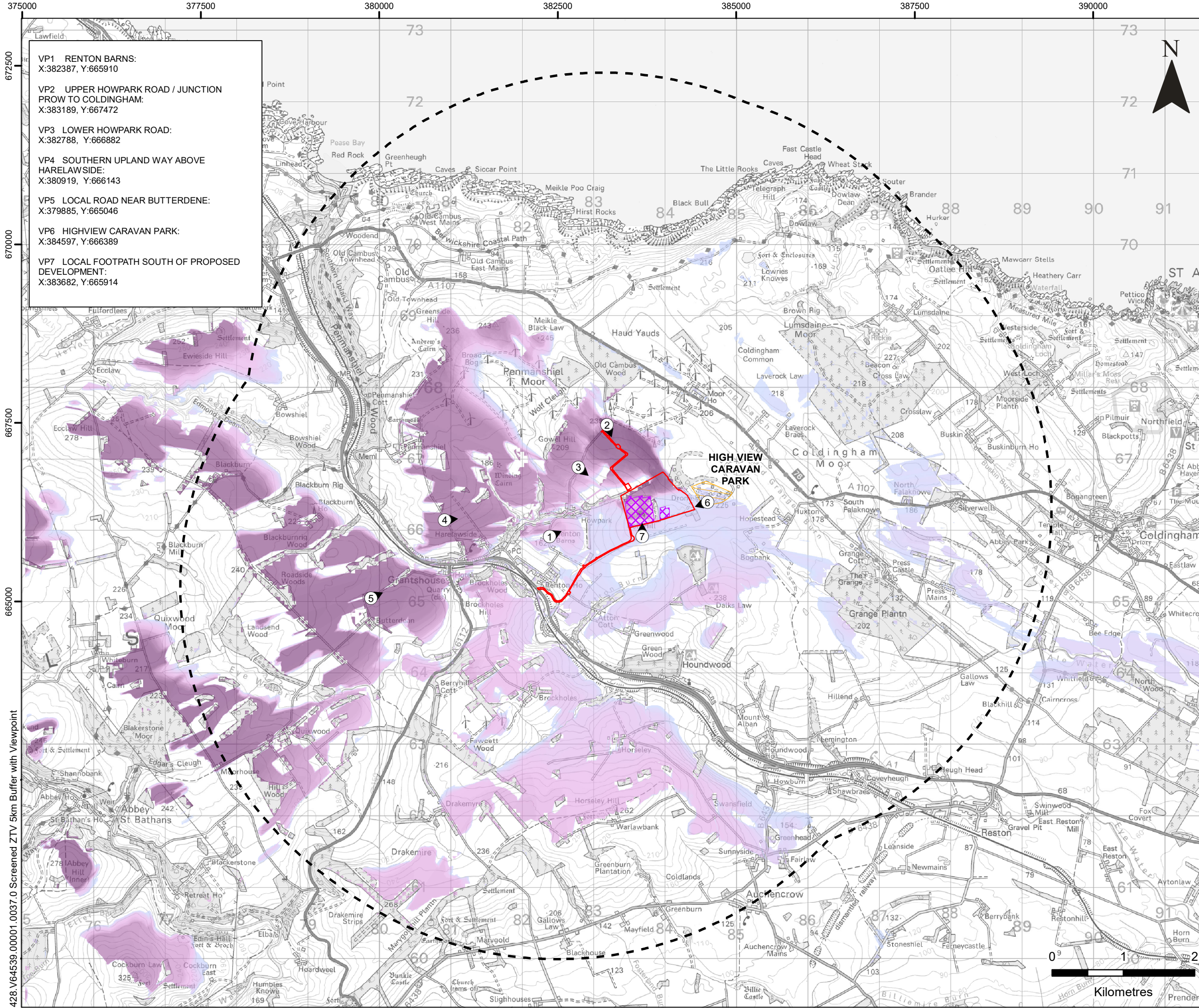
- The ZTV has been generated from a viewing height of 2 m above ground.
- The ZTV has been generated using a 50m grid for the maximum proposed solar array within Howpark.
- A proposed solar array panel height of 4.5m has been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.



SLR
4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH
T: +44 (0)131 335 6830
www.slrconsulting.com

**HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL
BARE EARTH ZTV
FIGURE L-01**

Scale 1:50,000 @ A3 Date NOVEMBER 2023



- VP1 RENTON BARN:
X:382387, Y:665910
- VP2 UPPER HOWPARK ROAD / JUNCTION
PROW TO COLDINGHAM:
X:383189, Y:667472
- VP3 LOWER HOWPARK ROAD:
X:382788, Y:666882
- VP4 SOUTHERN UPLAND WAY ABOVE
HARELAWSIDE:
X:380919, Y:666143
- VP5 LOCAL ROAD NEAR BUTTERDENE:
X:379885, Y:665046
- VP6 HIGHVIEW CARAVAN PARK:
X:384597, Y:666389
- VP7 LOCAL FOOTPATH SOUTH OF PROPOSED
DEVELOPMENT:
X:383682, Y:665914

LEGEND

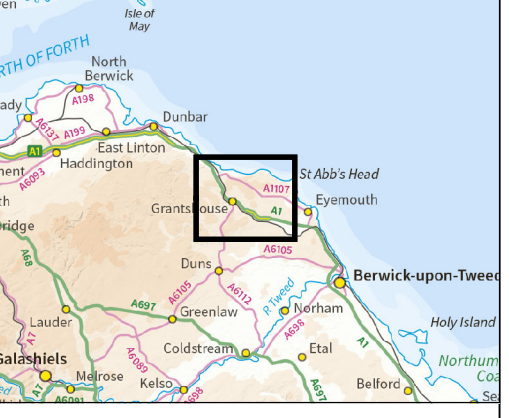
- Site Boundary
- Landscape Study Area 5km Buffer
- Proposed Solar Array
- Viewpoint

Zone of Theoretical Visibility (ZTV): Screened Scenario

 High
 Low

Note:
This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5 m Root Mean Square Error [RMSE]) up to 5 km from solar array. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using NatureScot guidance settings. The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated from a viewing height of 2 m above ground.
- The ZTV has been generated using a 50 m grid for the maximum proposed solar array within Howpark.
- A proposed solar array panel height of 4.5 m has been used for generating the ZTV.
- The ZTV accounts for the screening effect of settlements and woodland blocks using a height value of 8m for buildings and 10m for woodland. The ZTV does not account for the localised screening effects of vegetation (i.e., hedgerows, individual trees, small tree groups or scrub). It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been generated for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.



Eurowind Energy™

SLR

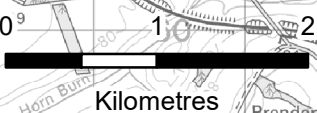
4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH
T: +44 (0)131 335 6830
www.slrconsulting.com

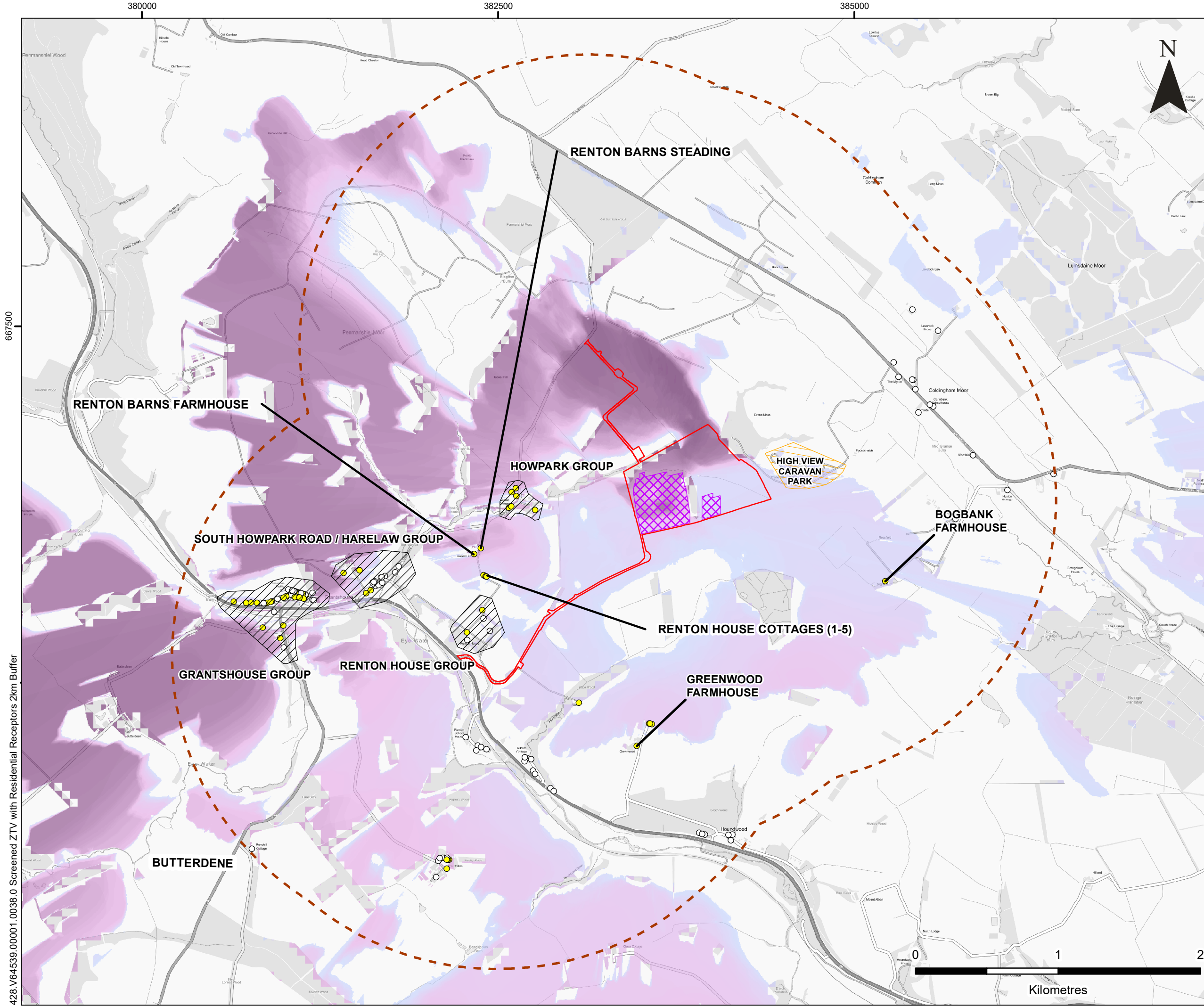
HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL
SCREENED ZTV WITH
PROPOSED VIEWPOINTS
FIGURE L-02

Scale 1:50,000 @ A3 Date NOVEMBER 2023

428.V64539.00001.0037.0 Screened ZTV 5km Buffer with Viewpoint

375000 377500 380000 382500 385000 387500 390000





LEGEND

- Site Boundary
- Landscape Study Area 2 km Buffer
- Proposed Solar Array
- Nearby Residential Receptor - Solar Array Visible
- Nearby Residential Receptor - Solar Array not Visible
- Residential Receptor Group
- Caravan Park

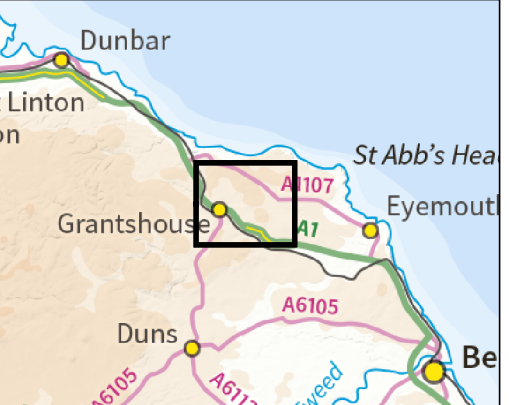
Zone of Theoretical Visibility (ZTV)
Screened Scenario

High

Low

Note:
 This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 5km from solar array. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using NatureScot guidance settings. The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated from a viewing height of 2 m above ground.
- The ZTV has been generated using a 50m grid for the maximum proposed solar array within Howpark.
- A proposed solar array panel height of 4.5m has been used for generating the ZTV.
- The ZTV accounts for the screening effect of settlements and woodland blocks using a height value of 8m for buildings and 10m for woodland. The ZTV does not account for the localised screening effects of vegetation (i.e., hedgerows, individual trees, small tree groups or scrub). It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been generated for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.



4/5 LOCHSIDE VIEW
 EDINBURGH PARK
 EDINBURGH
 EH12 9DH

SLR

T: +44 (0)131 335 6830
 www.slrconsulting.com

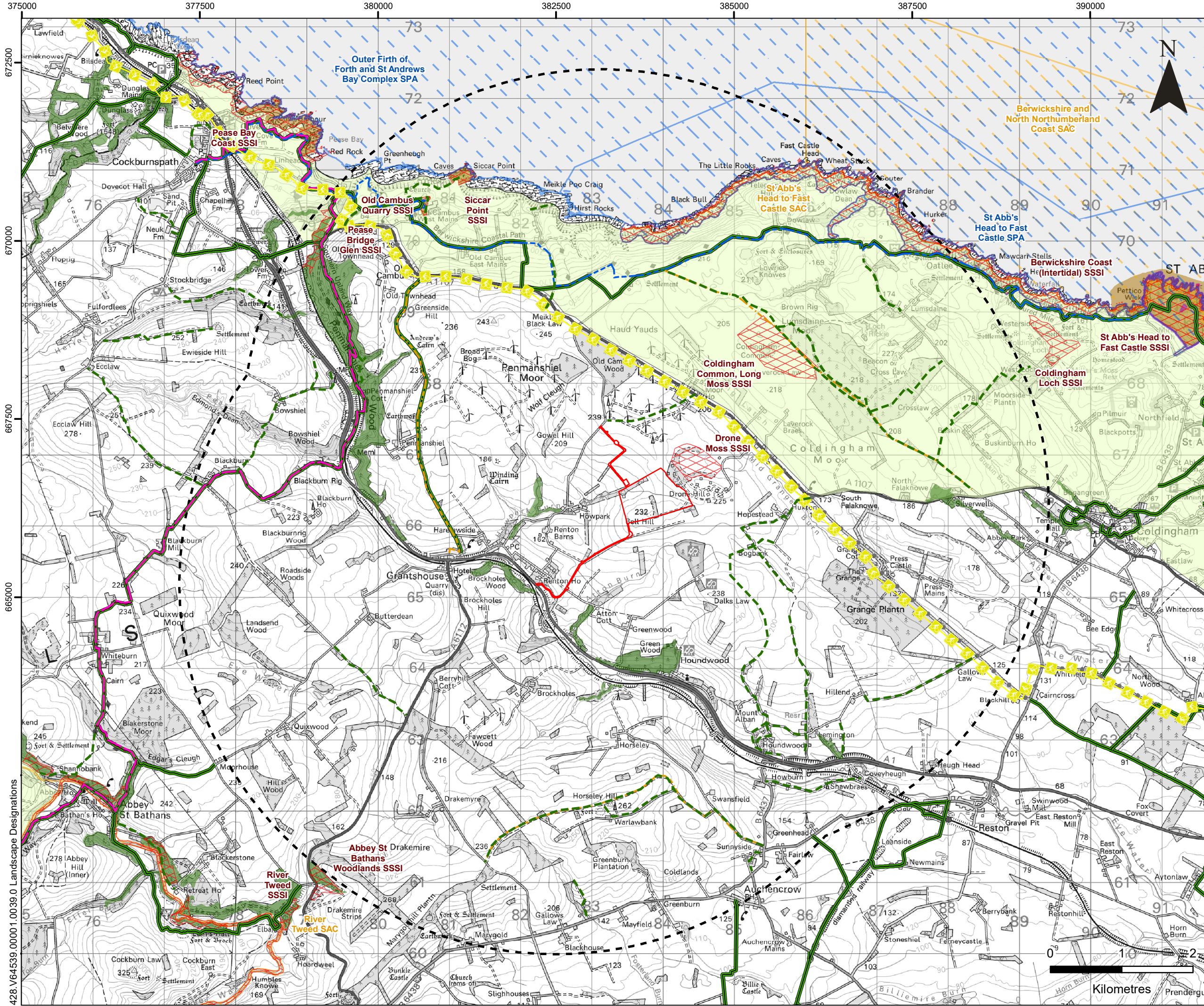
HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL

SCREENED ZTV WITH
RESIDENTIAL RECEPTORS

FIGURE L-03

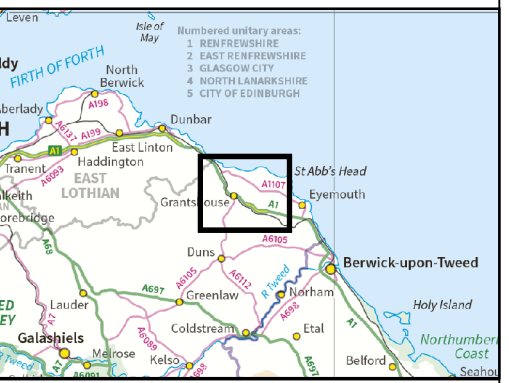
Scale 1:25,000 @ A3 Date NOVEMBER 2023

428.V64539.00001.0038.0 Screened ZTV with Residential Receptors 2km Buffer



LEGEND

- Site Boundary
- Landscape Study Area 5 km
- Scottish Hill Track 31
- Berwickshire Coastal Path
- Heritage Path
- Southern Upland Way
- Rights Of Way
- Core Path
- National Cycle Network (76)
- Special Protection Area (SPA)
- Site of Special Scientific Interest
- Special Area of Conservation (SAC)
- National Nature Reserve
- Ancient Woodland Inventory
- Special Landscape Area (Scottish Borders)
- Geological Conservation Review



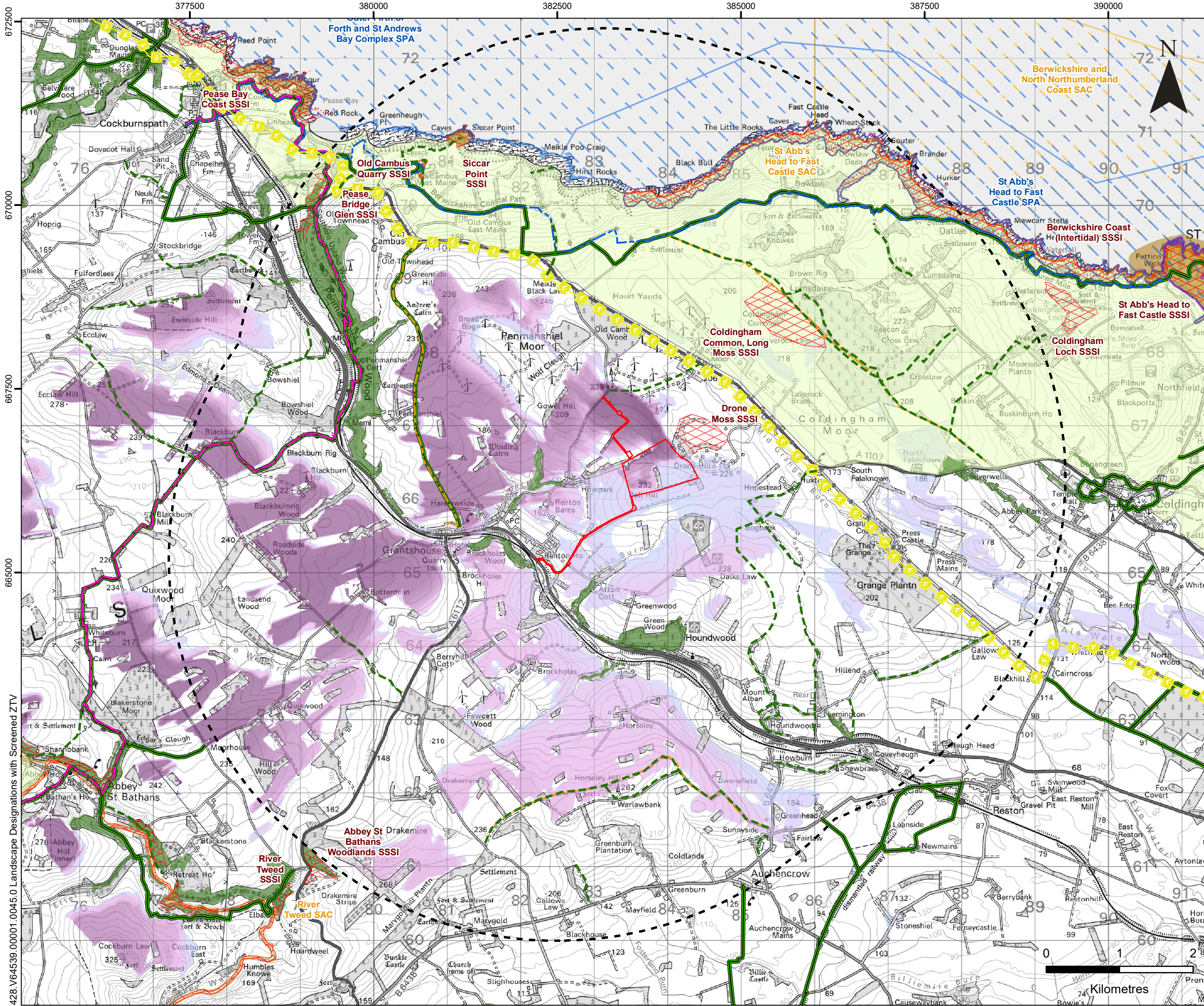
Eurowind Energy

SLR

4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH
T: +44 (0)131 335 6830
www.slrconsulting.com

**HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL
LANDSCAPE DESIGNATIONS
FIGURE L-04**

Scale 1:50,000 @ A3 Date NOVEMBER 2023



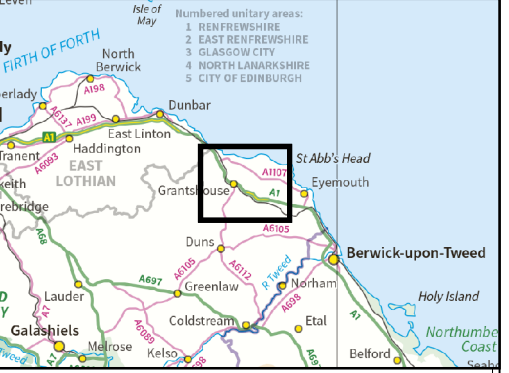
LEGEND

- Site Boundary
- Landscape Study Area 5 km Buffer
- Scottish Hill Track 31
- Berwickshire Coastal Path
- Heritage Path
- Southern Upland Way
- Rights Of Way
- Core Path
- National Cycle Network (76)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- National Nature Reserve (NNR)
- Ancient Woodland Inventory
- Special Landscape Area (Scottish Borders)
- Geological Conservation Review Site

Zone of Theoretical Visibility (ZTV) Screened Scenario

- High
- Low

Note:
Please refer to Figure L-01 for detailed ZTV methodology



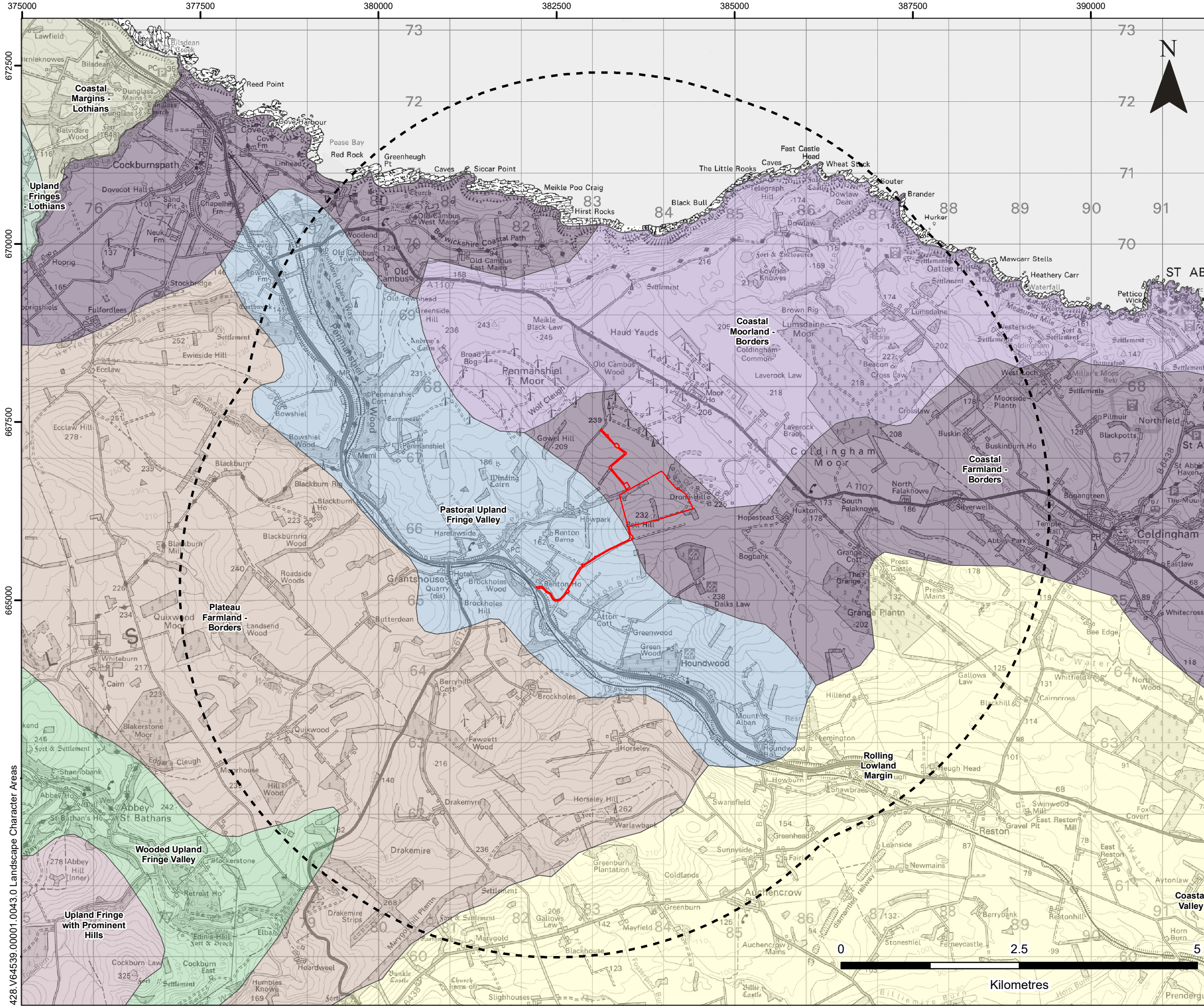
SLR

4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH

T: +44 (0)131 335 6830
www.slrconsulting.com

**HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL
LANDSCAPE DESIGNATIONS
WITH SCREENED ZTV
FIGURE L-04 A**

Scale 1:48,490 @ A3 Date NOVEMBER 2023



LEGEND

- Site Boundary
- Landscape Study Area 5 km Buffer

Landscape Character Area

- 100: Plateau Farmland - Borders
- 102: Upland Fringe with Prominent Hills
- 107: Rolling Lowland Margin
- 110: Coastal Farmland - Borders
- 112: Coastal Moorland - Borders
- 117: Pastoral Upland Fringe Valley
- 119: Wooded Upland Fringe Valley
- 121: Coastal Valley
- 269: Upland Fringes - Lothians
- 277: Coastal Margins - Lothians



Eurowind Energy™

SLR

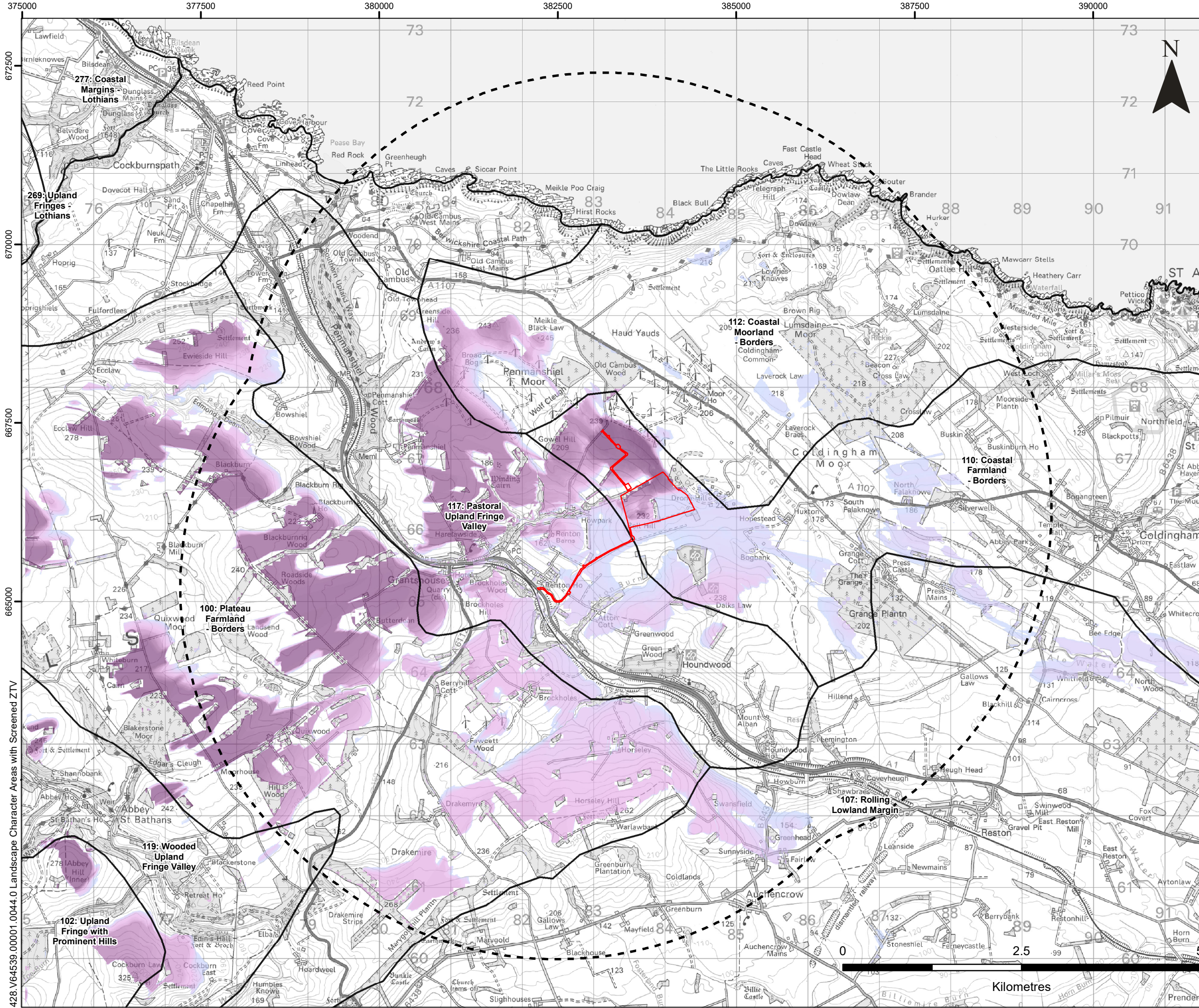
4/5 LOCHSIDE VIEW
EDINBURGH PARK
EDINBURGH
EH12 9DH

T: +44 (0)131 335 6830
www.slrconsulting.com

**HOWPARK SOLAR FARM
LANDSCAPE APPRAISAL
LANDSCAPE CHARACTER
AREAS**

FIGURE L-05

Scale 1:50,000 @ A3 Date NOVEMBER 2023



LEGEND

- Site Boundary
- Landscape Study Area 5 km
- Buffer
- Landscape Character Area

Zone of Theoretical Visibility (ZTV) Screened Scenario

- High
- Low

Note:
 This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 5km from solar array. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using NatureScot guidance settings. The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated from a viewing height of 2 m above ground.
- The ZTV has been generated using a 50m grid for the maximum proposed solar array within Howpark.
- A proposed solar array panel height of 4.5m has been used for generating the ZTV.
- The ZTV accounts for the screening effect of settlements and woodland blocks using a height value of 8m for buildings and 10m for woodland. The ZTV does not account for the localised screening effects of vegetation (i.e. hedgerows, individual trees, small tree groups or scrub). It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been generated for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.



Eurowind Energy™

SLR

4/5 LOCHSIDE VIEW
 EDINBURGH PARK
 EDINBURGH
 EH12 9DH
 T: +44 (0)131 335 6830
 www.slrconsulting.com

**HOWPARK SOLAR FARM
 LANDSCAPE APPRAISAL
 LANDSCAPE CHARACTER
 AREAS WITH SCREENED ZTV**

FIGURE L-06

Scale 1:50,000 @ A3 Date NOVEMBER 2023