



Uisenis Wind Farm

Volume 3a

Figures to support Chapters 1-7 of the EIA Report

August 2023

# VOLUME 3A - EIA REPORT FIGURES (CH1-7)

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## VOLUME 3A - EIA REPORT FIGURES (CH1-7)

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120000

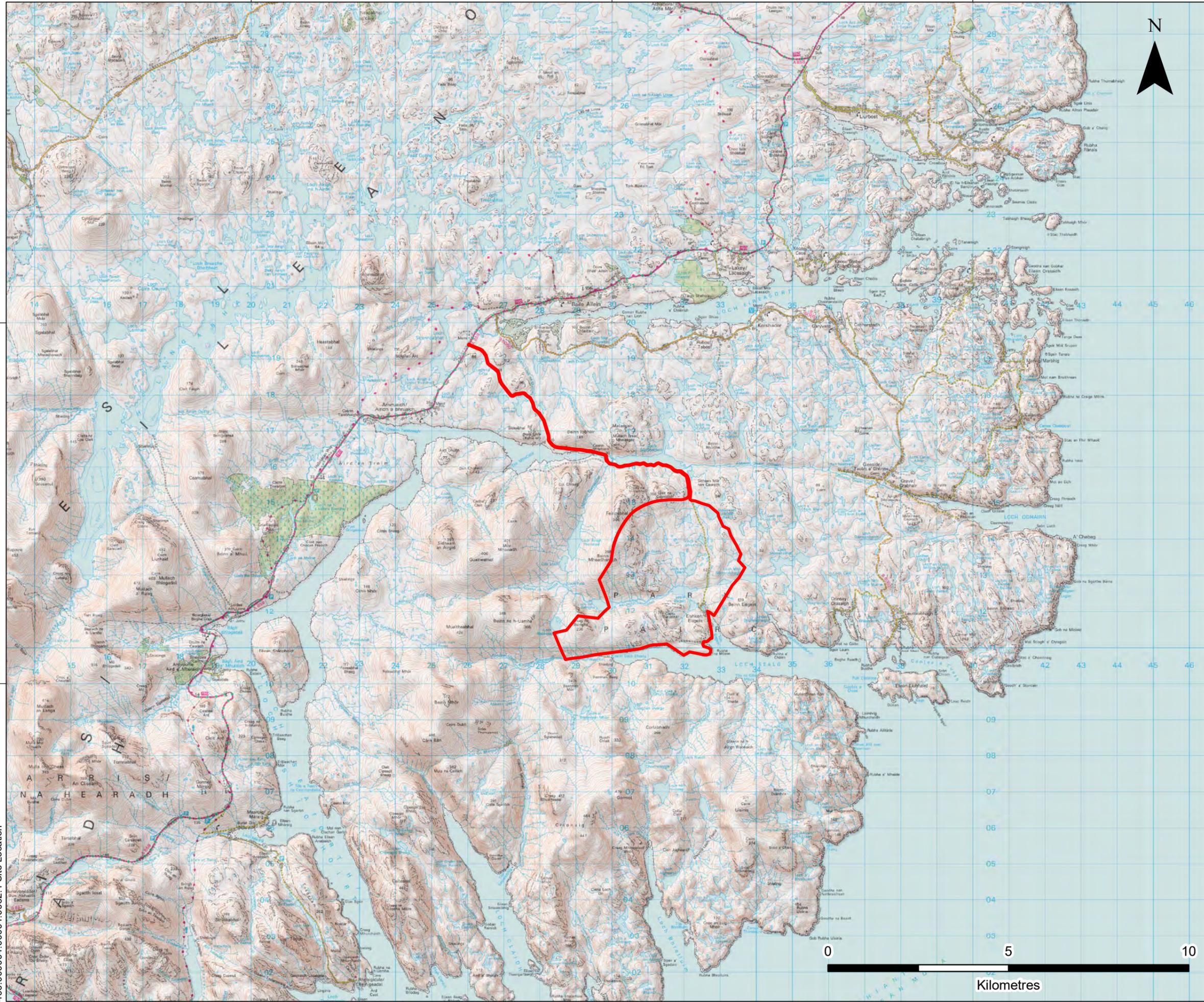
130000

140000

920000

910000

406.00004.00001.0082.1 Site Location



**LEGEND**

Application Boundary

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**INTRODUCTION**

**SITE LOCATION PLAN**

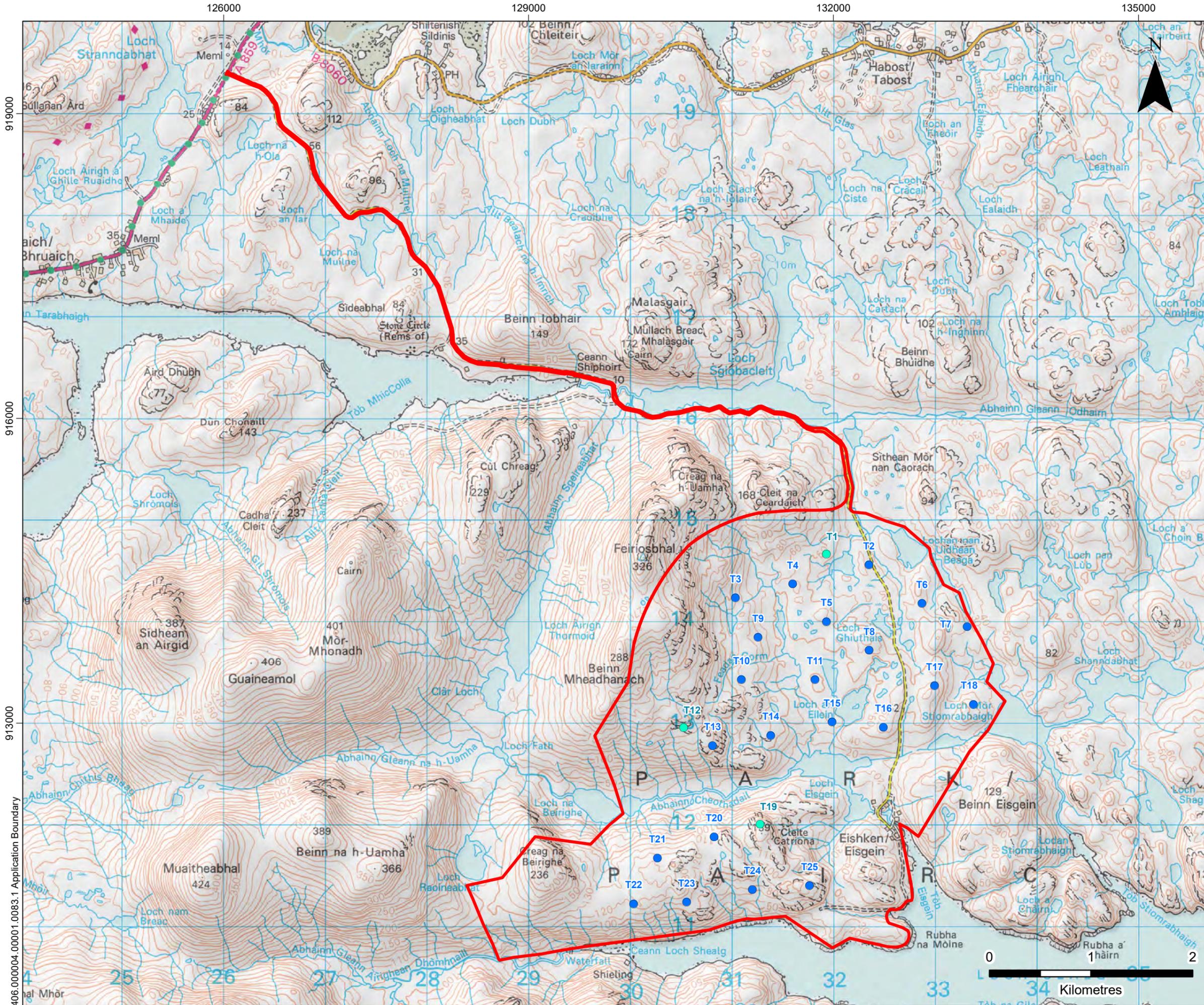
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**FIGURE 1.1**

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Scale 1:100,000 @ A3	Date AUGUST 2023
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**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)



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INTRODUCTION

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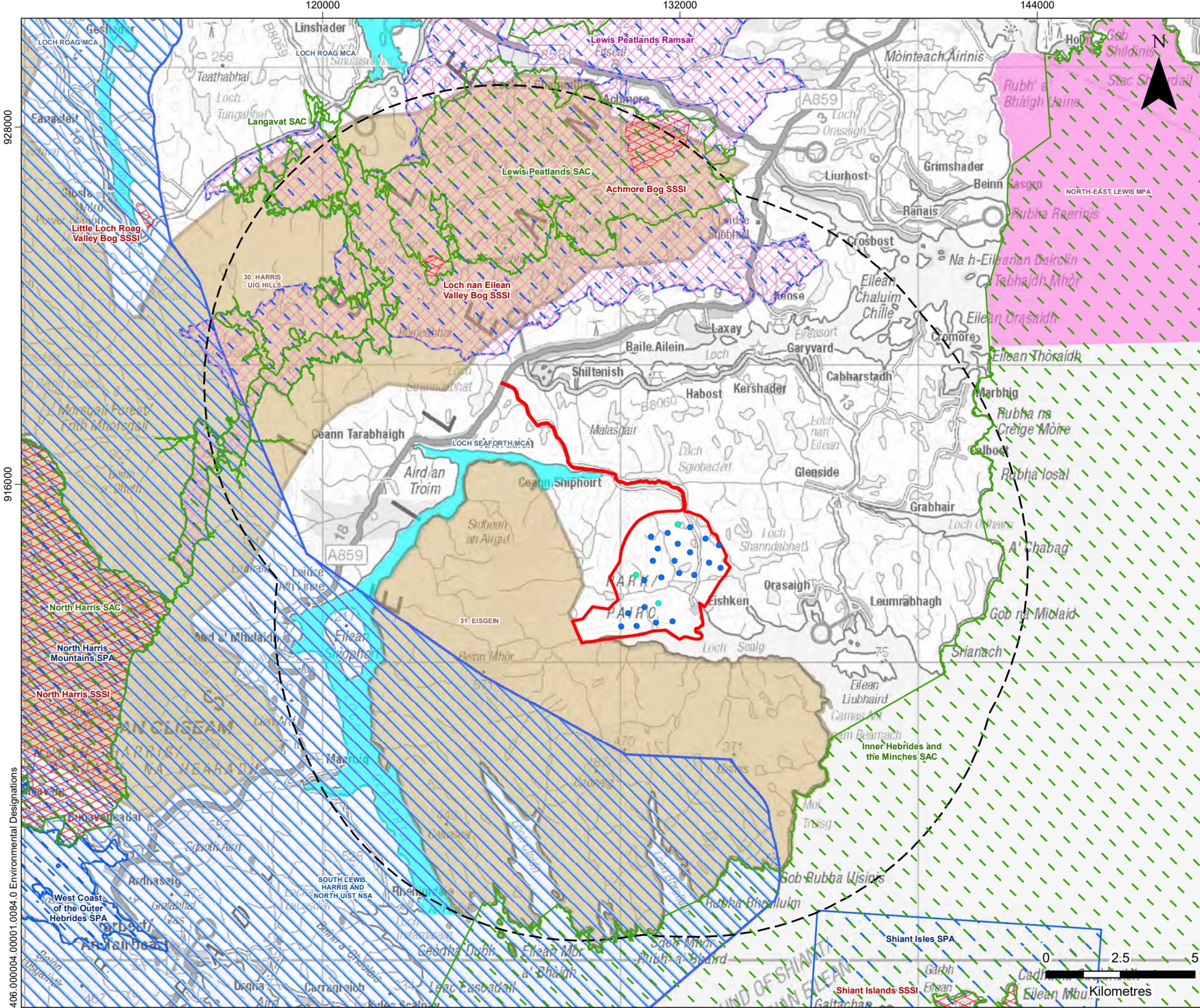
**APPLICATION BOUNDARY**

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**FIGURE 1.2**

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Scale 1:35,000 @ A3      Date AUGUST 2023



**LEGEND**

- Application Boundary
- Application Boundary 10 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)

**Environmental Designation**

- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Ramsar
- Site of Special Scientific Interest (SSSI)
- National Scenic Area (NSA)
- Wild Land Area
- Marine Consultation Area
- Marine Protection Area



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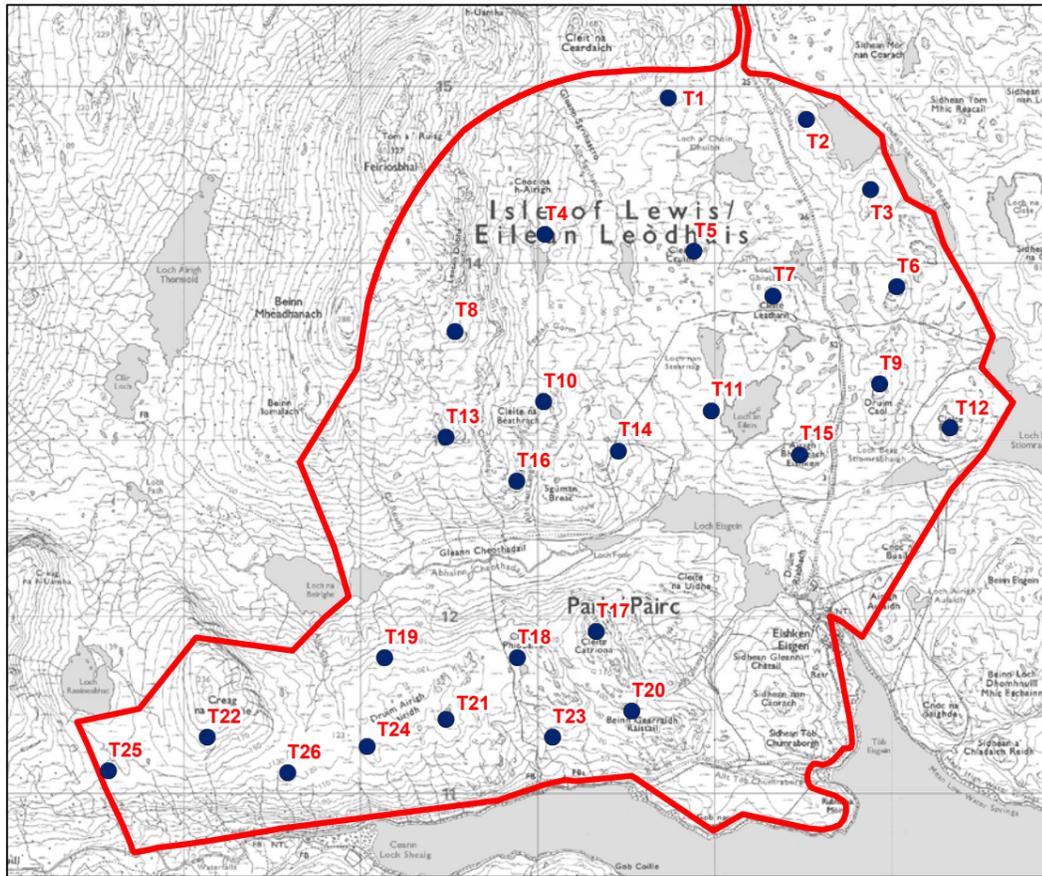
**UISENIS WIND FARM - EIA**

**SITE DESCRIPTION AND DESIGN EVOLUTION**

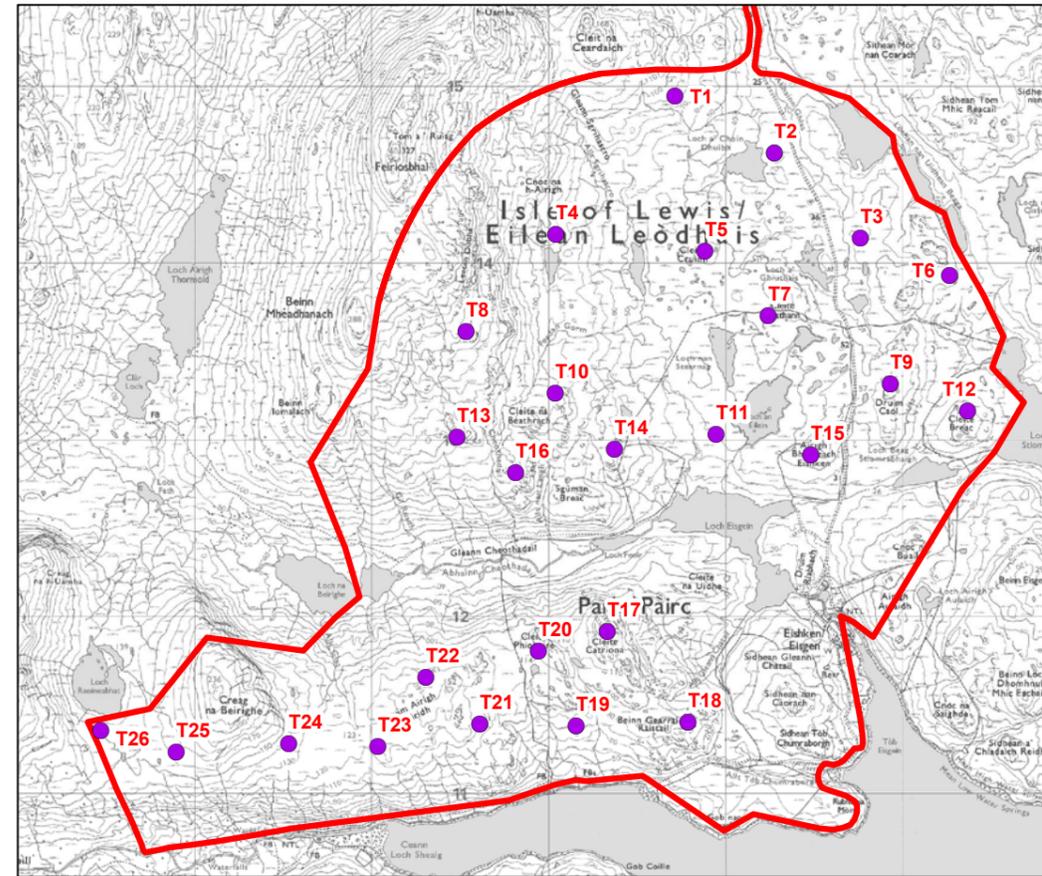
**ENVIRONMENTAL DESIGNATIONS**

**FIGURE 2.1**

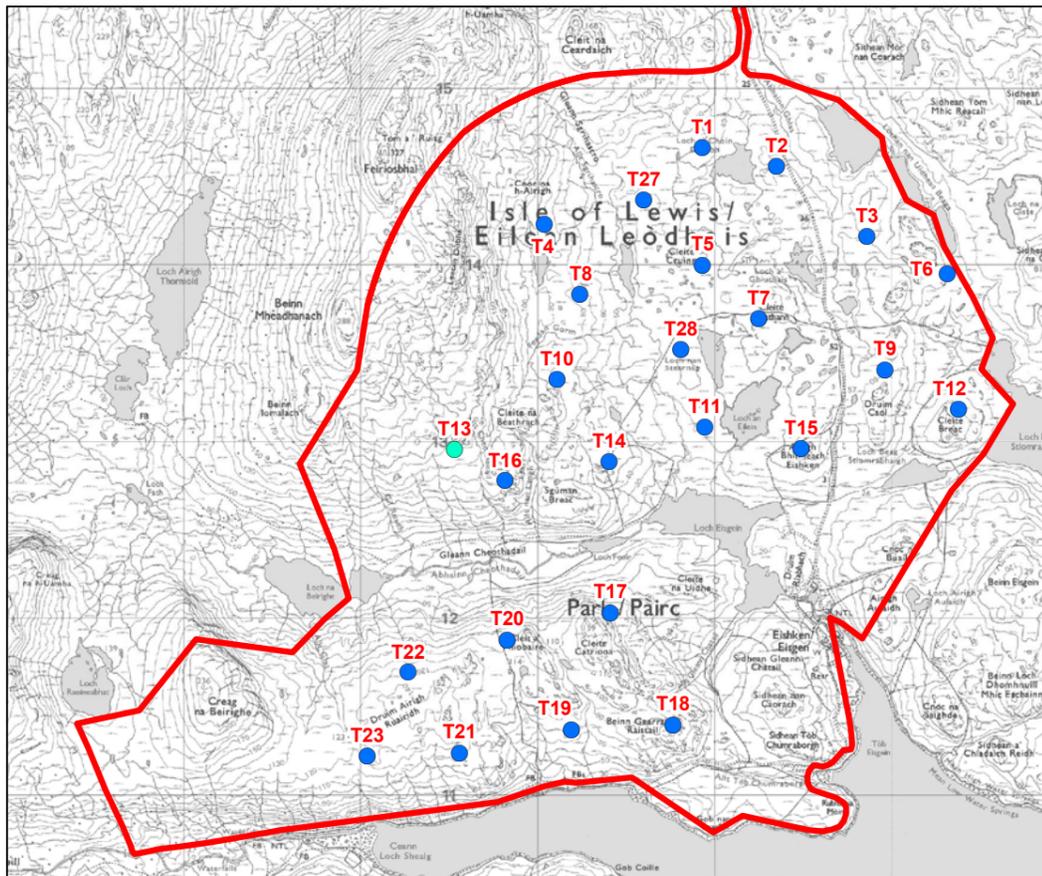
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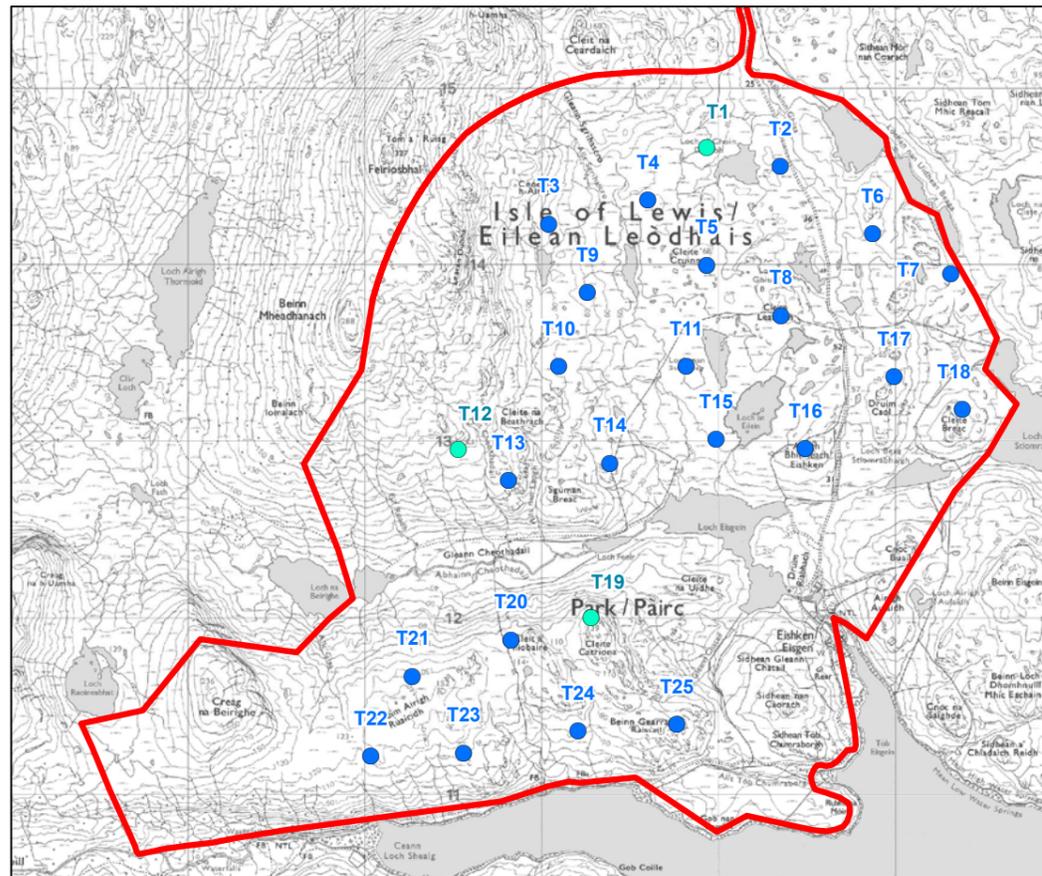
LAYOUT A - SCOPING LAYOUT



LAYOUT B - FIRST PUBLIC EXHIBITION LAYOUT



LAYOUT C - GATECHECK REPORT LAYOUT



LAYOUT D - PROPOSED DEVELOPMENT

LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Turbine Location (215 m Blade Tip Height)
- Proposed Turbine Location (225 m Blade Tip Height)
- 1 Initial Turbine Number
- 1 Final Turbine Number



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SITE DESCRIPTION AND  
DESIGN EVOLUTION

SITE LAYOUT EVOLUTION

**FIGURE 2.2**

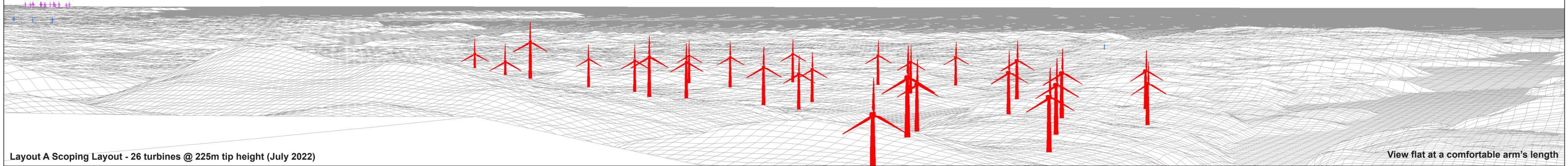
Scale  
1:40,000 @ A3

Date  
AUGUST 2023

Arnish Moor  
Drum Leathann

Uisenis

Lemreway



Layout A Scoping Layout - 26 turbines @ 225m tip height (July 2022)

View flat at a comfortable arm's length



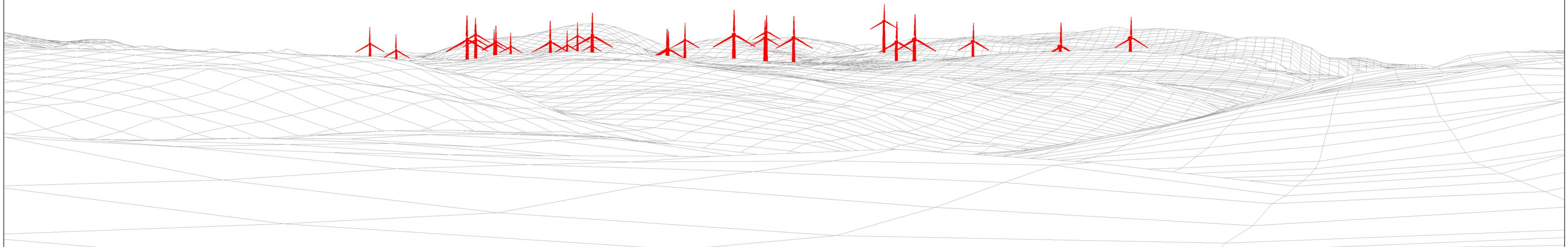
OS reference:	125433E 909534N	Horizontal field of view:	53.5° (planar projection)
AOD:	566 m	Principal distance:	812.5 mm
Direction of view:	60°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	3.5 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented

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Layout A Scoping Layout - 26 turbines @ 225m tip height (July 2022)

View flat at a comfortable arm's length

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OS reference:	137942E 915827N	Horizontal field of view:	53.5° (planar projection)
AOD:	54 m	Principal distance:	812.5 mm
Direction of view:	250°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	5.3 km	Correct printed image size:	820 x 260 mm

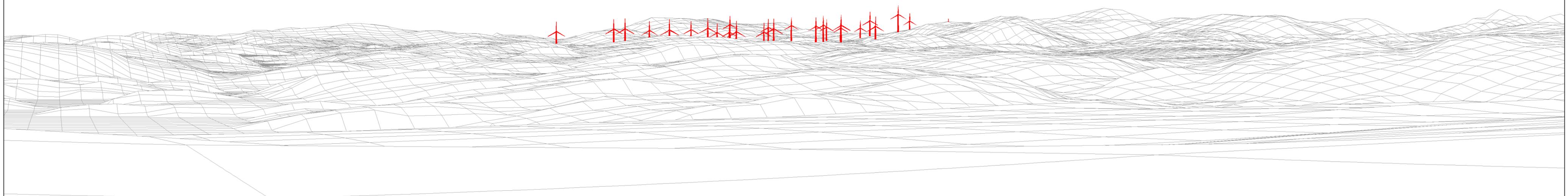
Wind Farm Developments key  
(by status):

- Proposed scheme
- Operational
- Consented

Uisenis Wind Farm  
Figure 2.3b

Viewpoint 4: Taobh a' Ghlinne (Glenside)

Uisenis



Layout A Scoping Layout - 26 turbines @ 225m tip height (July 2022)

View flat at a comfortable arm's length



OS reference: 137284E 925851N  
AOD: 46 m  
Direction of view: 205°  
Nearest turbine: 12.0 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

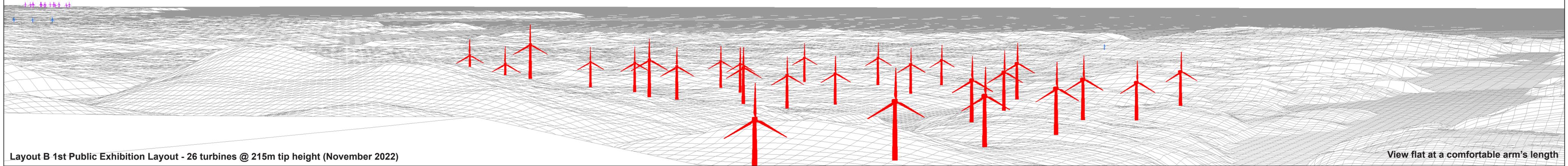
Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented

Arnish Moor  
Druim Leathann

Uisenis

Lemreway



Layout B 1st Public Exhibition Layout - 26 turbines @ 215m tip height (November 2022)

View flat at a comfortable arm's length



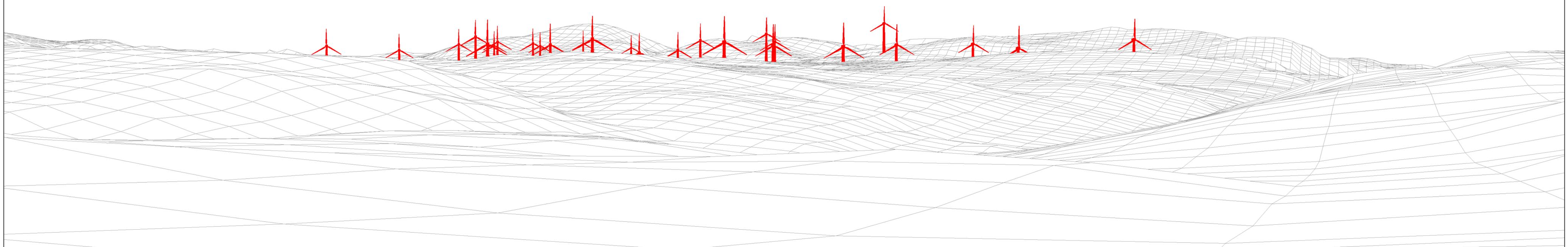
OS reference:	125433E 909534N	Horizontal field of view:	53.5° (planar projection)
AOD:	566 m	Principal distance:	812.5 mm
Direction of view:	60°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	3.6 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented

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Layout B 1st Public Exhibition Layout - 26 turbines @ 215m tip height (November 2022)

View flat at a comfortable arm's length

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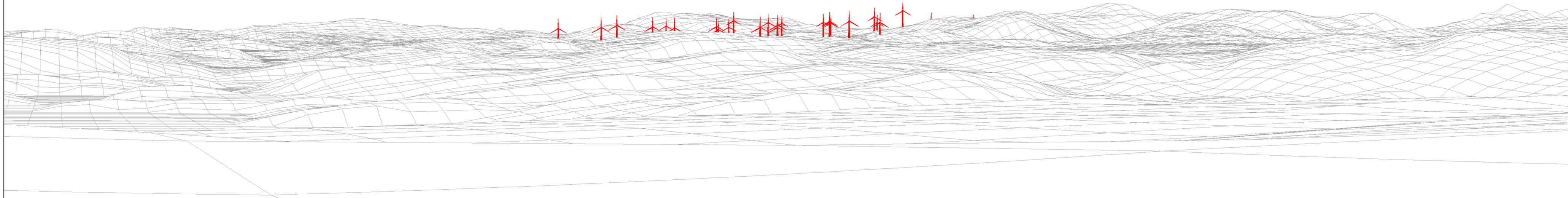


OS reference:	137942E 915827N	Horizontal field of view:	53.5° (planar projection)
AOD:	54 m	Principal distance:	812.5 mm
Direction of view:	250°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	5.0 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

- Proposed scheme
- Operational
- Consented

Uisenis



Layout B 1st Public Exhibition Layout - 26 turbines @ 215m tip height (November 2022)

View flat at a comfortable arm's length



OS reference: 137284E 925851N  
 AOD: 46 m  
 Direction of view: 205°  
 Nearest turbine: 12.2 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

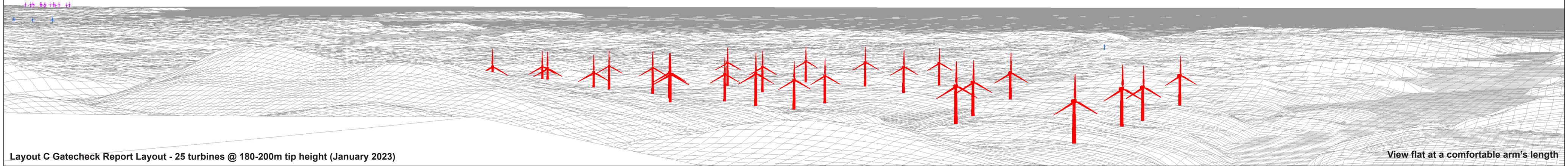
Proposed scheme  
 Operational  
 Consented

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Uisenis

Lemreway



Layout C Gatecheck Report Layout - 25 turbines @ 180-200m tip height (January 2023)

View flat at a comfortable arm's length



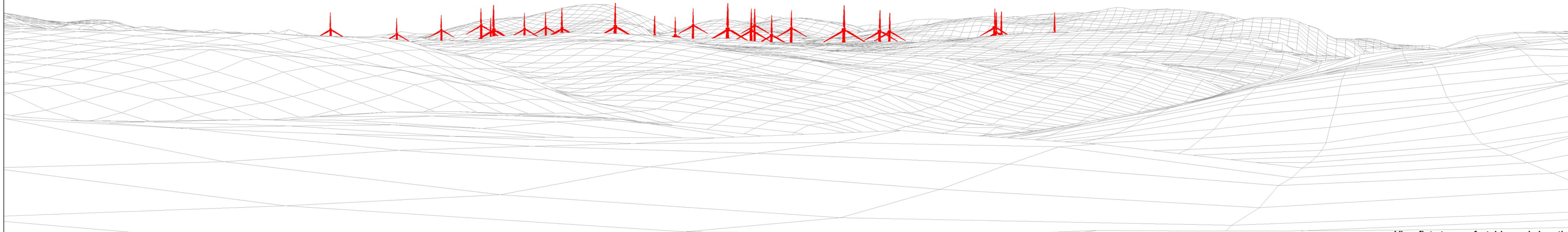
OS reference:	125433E 909534N	Horizontal field of view:	53.5° (planar projection)
AOD:	566 m	Principal distance:	812.5 mm
Direction of view:	60°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	4.8 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

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- Consented

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Layout C Gatecheck Report Layout - 25 turbines @ 180-200m tip height (January 2023)

View flat at a comfortable arm's length

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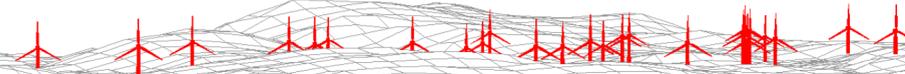


OS reference:	137942E 915827N	Horizontal field of view:	53.5° (planar projection)
AOD:	54 m	Principal distance:	812.5 mm
Direction of view:	250°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	5.0 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

Proposed scheme
Operational
Consented

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Layout C Gatecheck Report Layout - 25 turbines @ 180-200m tip height (January 2023)

View flat at a comfortable arm's length

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OS reference:	137284E 925851N	Horizontal field of view:	53.5° (planar projection)
AOD:	46 m	Principal distance:	812.5 mm
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	12.3 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented

Uisenis Wind Farm

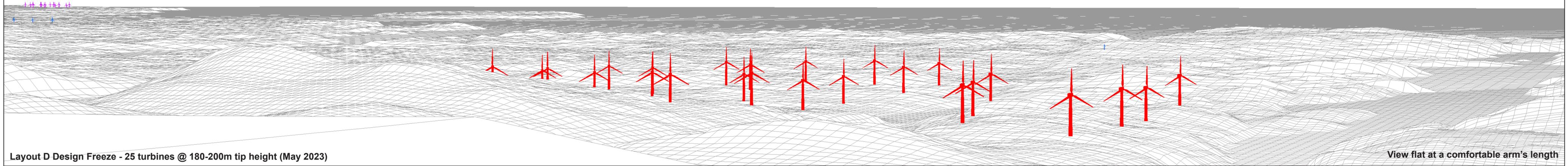
Figure 2.5c

Viewpoint 11: Liurbost

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Druim Leathann

Uisenis

Lemreway



Layout D Design Freeze - 25 turbines @ 180-200m tip height (May 2023)

View flat at a comfortable arm's length



OS reference: 125433E 909534N  
 AOD: 566 m  
 Direction of view: 60°  
 Nearest turbine: 4.9 km

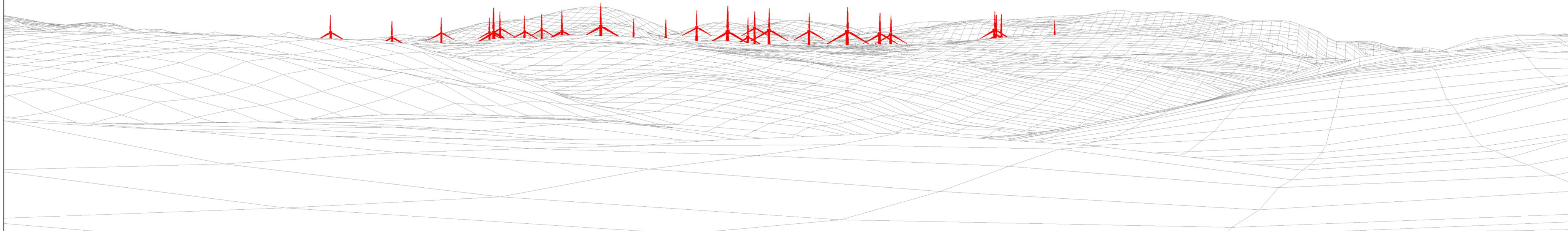
Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented

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Layout D Design Freeze - 25 turbines @ 180-200m tip height (May 2023)

View flat at a comfortable arm's length

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OS reference:	137942E 915827N	Horizontal field of view:	53.5° (planar projection)
AOD:	54 m	Principal distance:	812.5 mm
Direction of view:	250°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	5.0 km	Correct printed image size:	820 x 260 mm

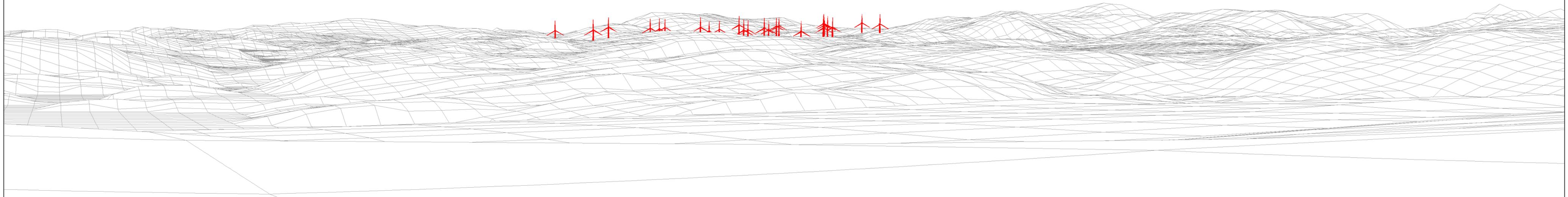
Wind Farm Developments key  
(by status):

- Proposed scheme
- Operational
- Consented

Uisenis Wind Farm  
Figure 2.6b

Viewpoint 4: Taobh a' Ghlinne (Glenside)

Uisenis



Layout D Design Freeze - 25 turbines @ 180-200m tip height (May 2023)

View flat at a comfortable arm's length

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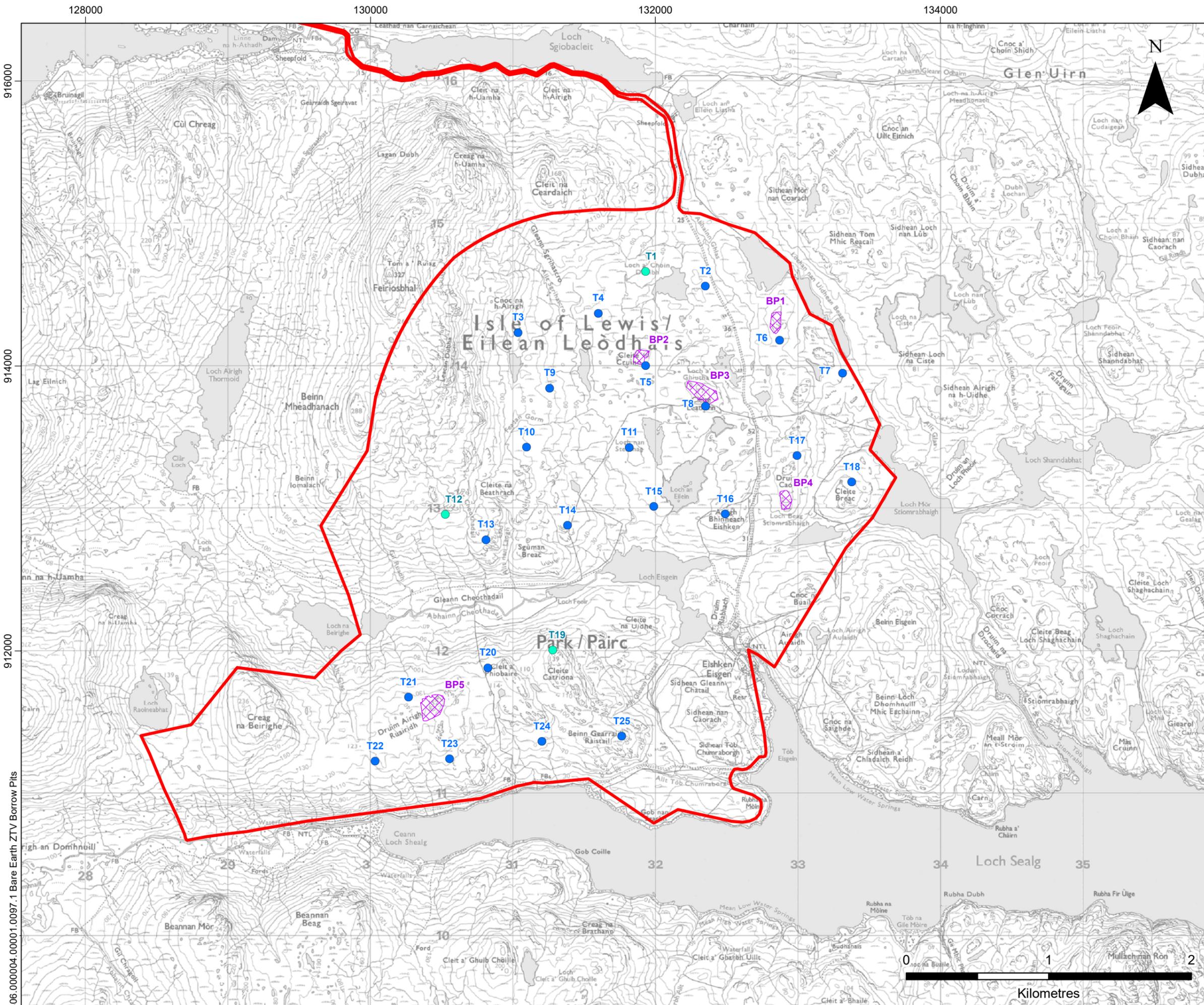


OS reference:	137284E 925851N	Horizontal field of view:	53.5° (planar projection)
AOD:	46 m	Principal distance:	812.5 mm
Direction of view:	205°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	12.3 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

Proposed scheme
Operational
Consented

Uisenis Wind Farm  
Figure 2.6c  
Viewpoint 11: Liurbost



**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Potential Borrow Pit



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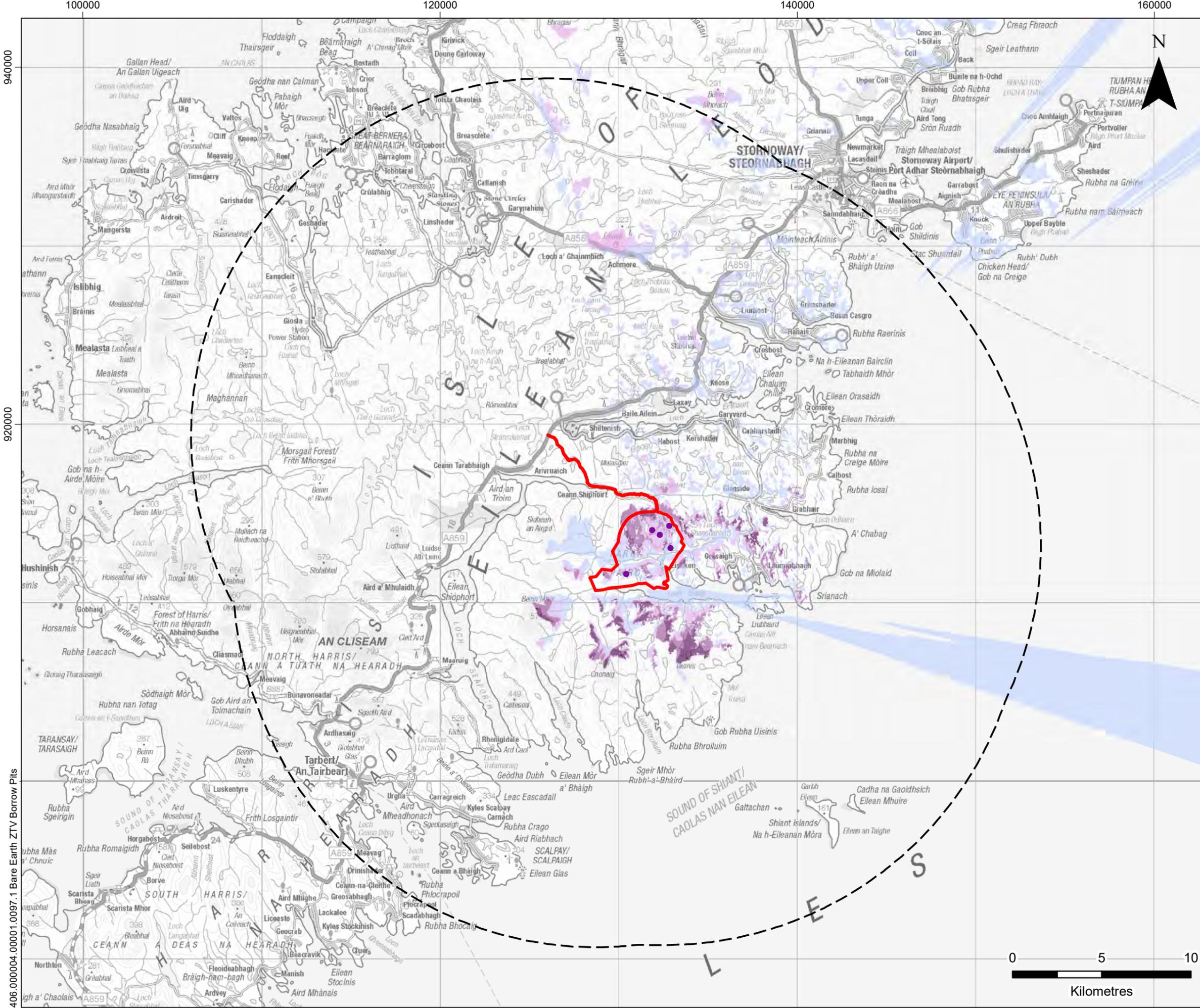
**UISENIS WIND FARM - EIA**

**SITE DESCRIPTION AND DESIGN EVOLUTION**

**POTENTIAL BORROW PITS - BARE EARTH ZTV**

**FIGURE 2.7a**

Scale 1:25,000 @ A3
Date AUGUST 2023



**LEGEND**

- Application Boundary
- Application Boundary 20 km Buffer
- Potential Borrow Pit

**Zone of Theoretical Visibility - Bare Earth Scenario**

**No of Borrow Pits Visible**

- 5 Borrow Pits Visible
- 4 Borrow Pits Visible
- 3 Borrow Pits Visible
- 2 Borrow Pits Visible
- 1 Borrow Pit Visible

**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 (+/-2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using a 20 m point grid based on the borrow pit locations for Uisenis Wind Farm.
- The borrow pits heights of 0 m (ground level) have been used in 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



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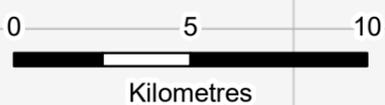
**SITE DESCRIPTION AND DESIGN EVOLUTION**

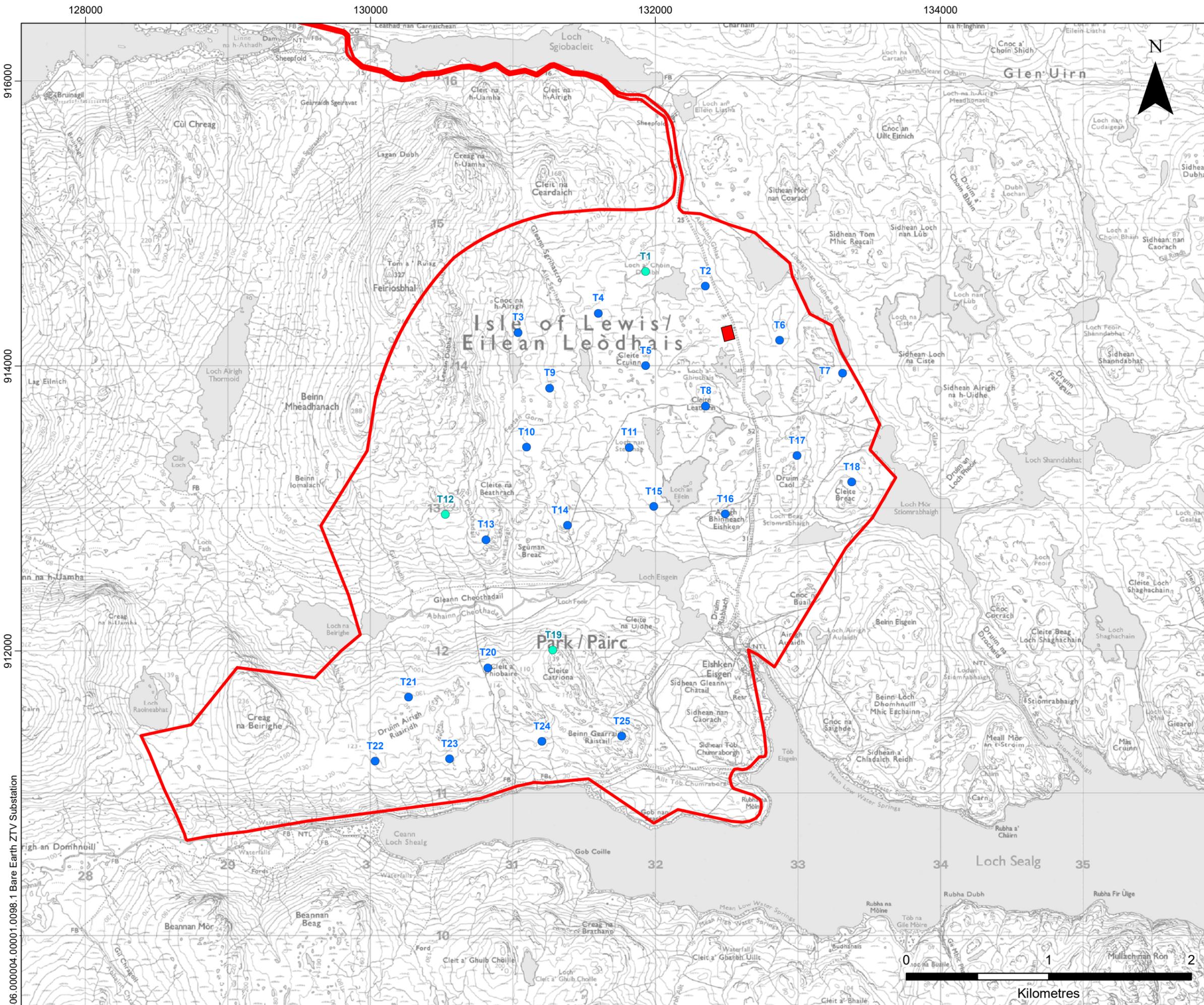
**POTENTIAL BORROW PITS - BARE EARTH ZTV**

**FIGURE 2.7b**

Scale 1:200,000 @ A3 Date AUGUST 2023

406.00004.00001.0097.1 Bare Earth ZTV Borrow Pits





**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Permanent Substation



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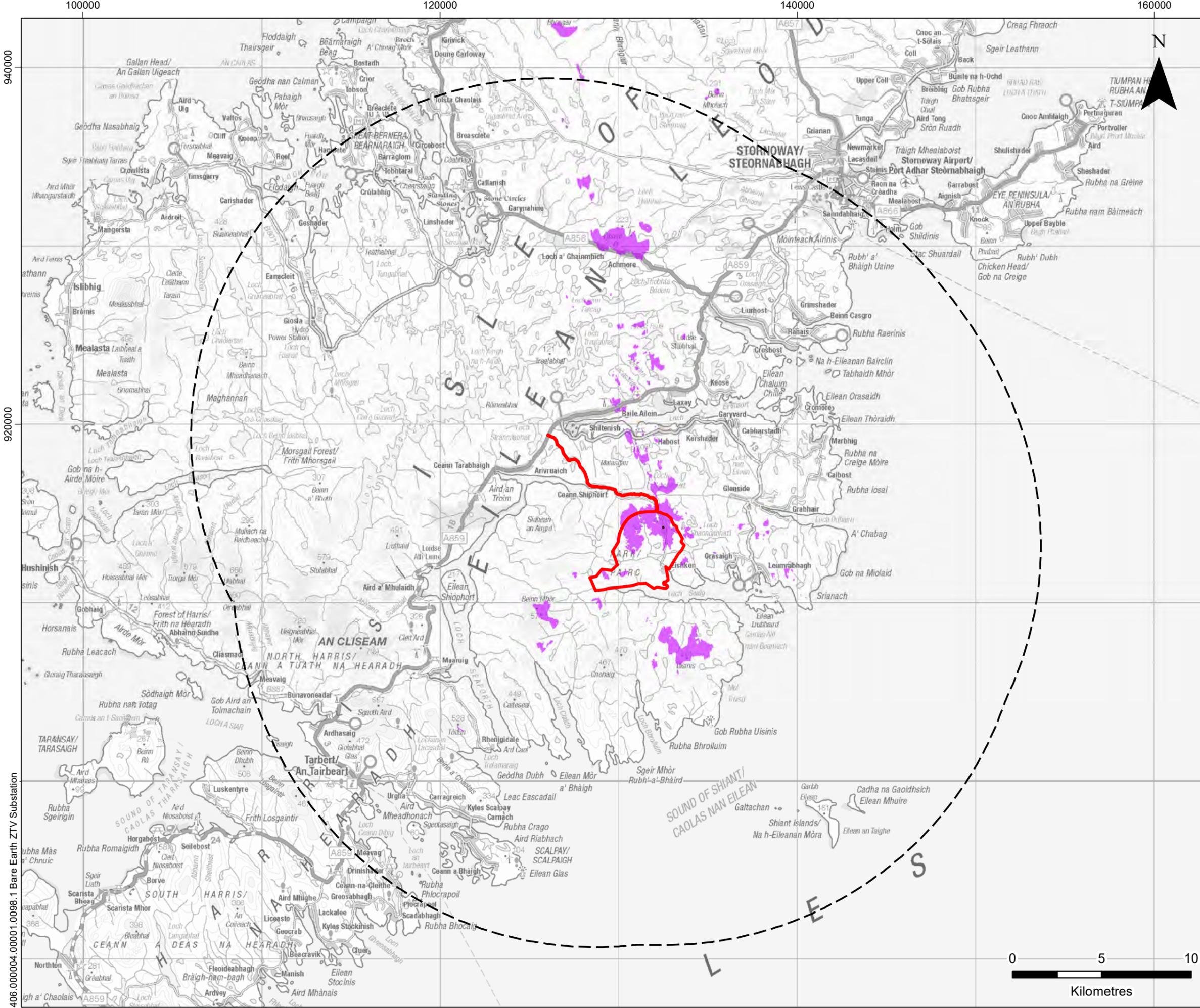
**UISENIS WIND FARM - EIA**

**SITE DESCRIPTION AND DESIGN EVOLUTION**

**PROPOSED SUBSTATION - BARE EARTH ZTV**

**FIGURE 2.8a**

Scale 1:25,000 @ A3	Date AUGUST 2023
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**LEGEND**

- Application Boundary
- Application Boundary 20 km Buffer
- Proposed Permanent Substation

**Zone of Theoretical Visibility - Bare Earth Scenarion**

- Substation Visible

**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 (+/-2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using a 20 m point grid at the proposed substation location for Uisenis Wind Farm.
- The substation height of 7 m has been used in 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.



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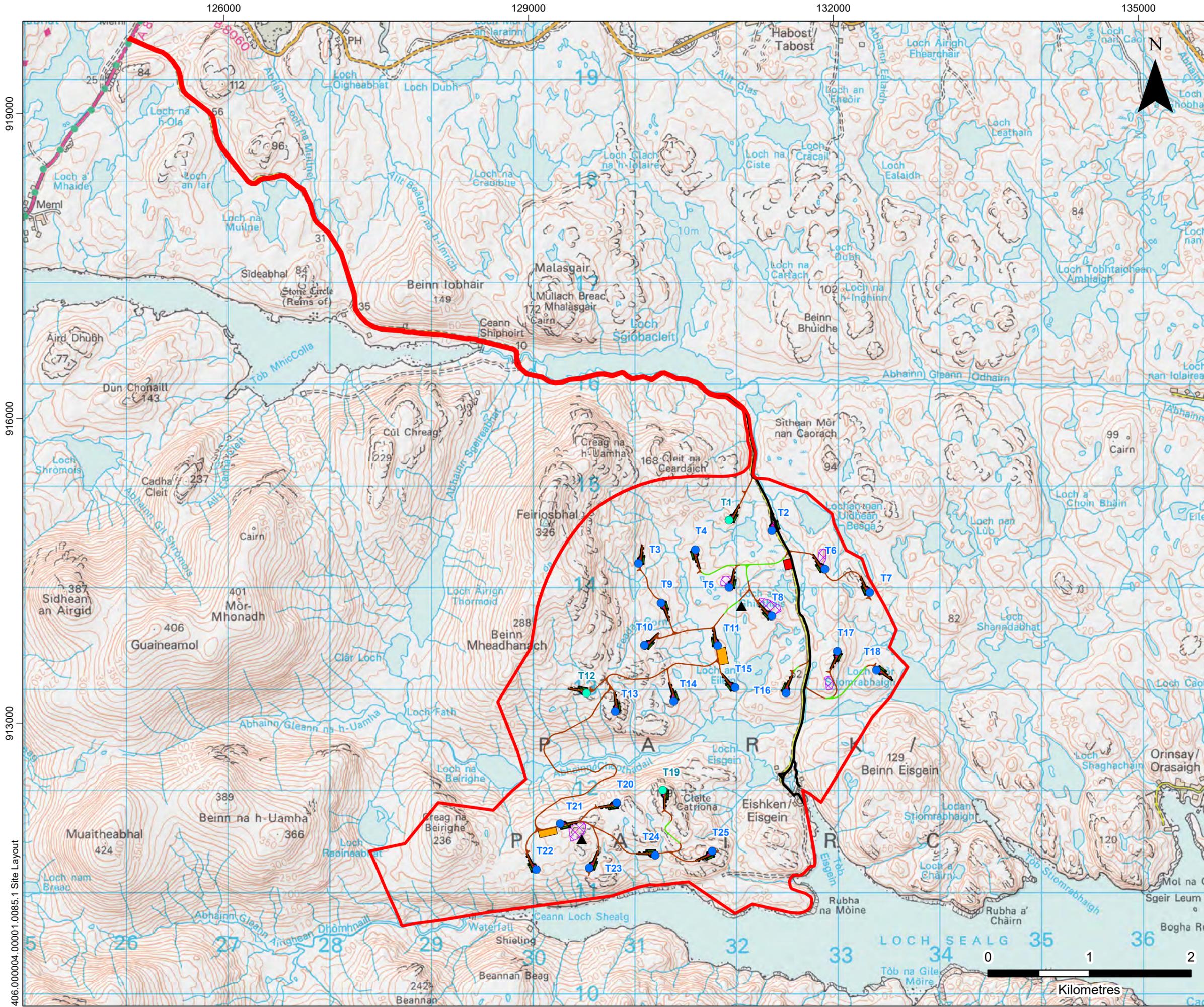
**UISENIS WIND FARM - EIA**

**SITE DESCRIPTION AND DESIGN EVOLUTION**

**PROPOSED SUBSTATION - BARE EARTH ZTV**

**FIGURE 2.8b**

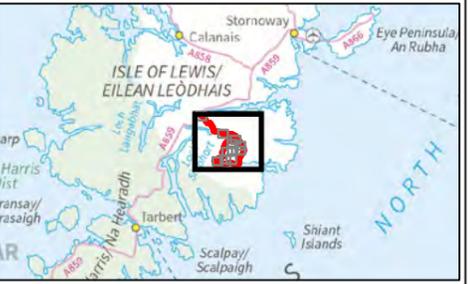
Scale: 1:200,000 @ A3      Date: AUGUST 2023



**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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**UISENIS WIND FARM - EIA**

**DESCRIPTION OF THE DEVELOPMENT**

**SITE LAYOUT**

**FIGURE 3.1a**

Scale 1:35,000 @ A3      Date AUGUST 2023

125600

126000

126400

126800

920000

919600

919200

406.000004.00001.0085.1 Site Layout

# Cnoc Mór nan Annscothan

## A859

### Loch na h-Ola

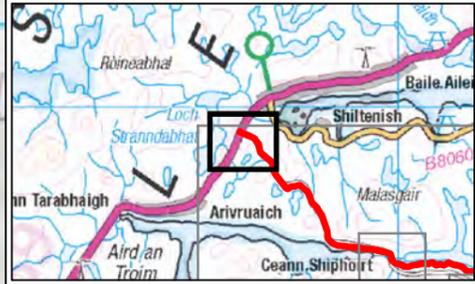
### Allt Goidamol



**LEGEND**

- Application Boundary
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



**Eurowind Energy**



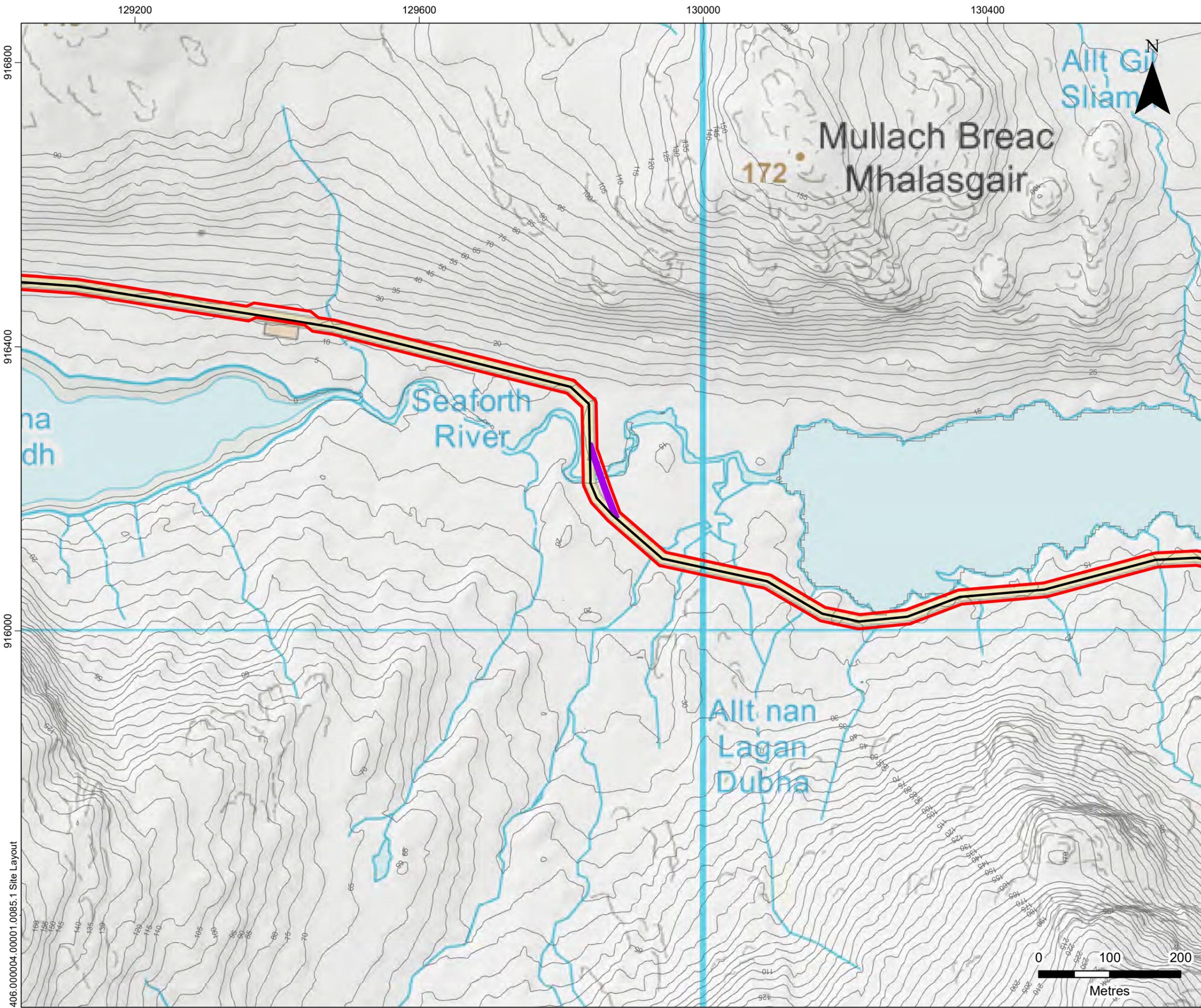
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

**FIGURE 3.1b**



Scale 1:5,000 @ A3 Date AUGUST 2023



**LEGEND**

- Application Boundary
- Proposed Temporary Bridge Alignment
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



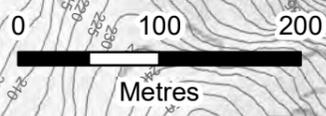
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

**FIGURE 3.1c**

Scale 1:5,000 @ A3      Date AUGUST 2023



406.00004.00001.0085.1 Site Layout

131600

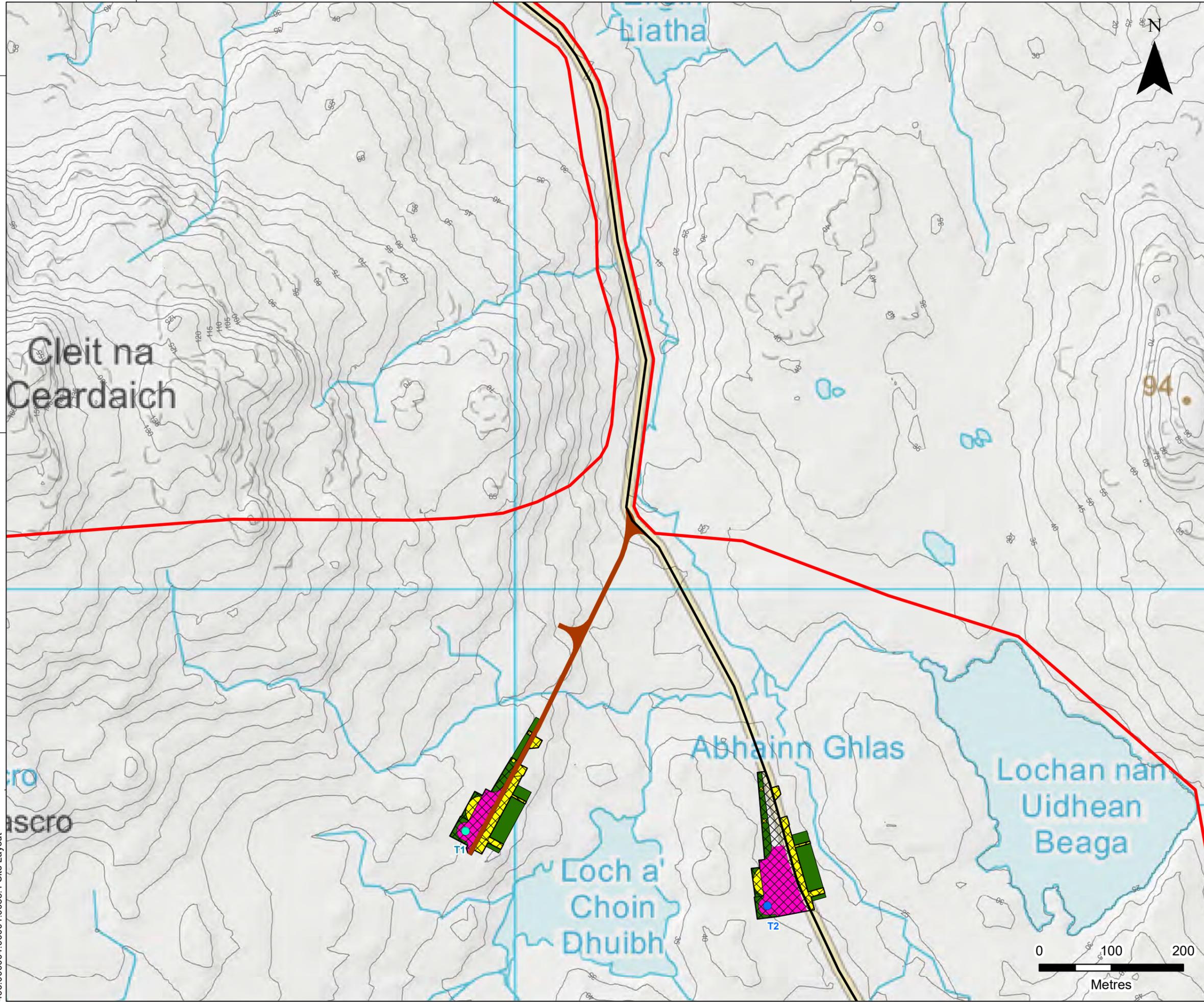
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132400

915600

915200

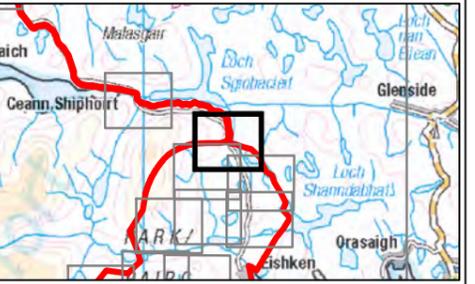
406.00004.00001.0085.1 Site Layout



**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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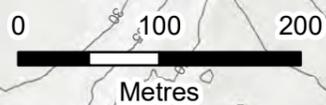
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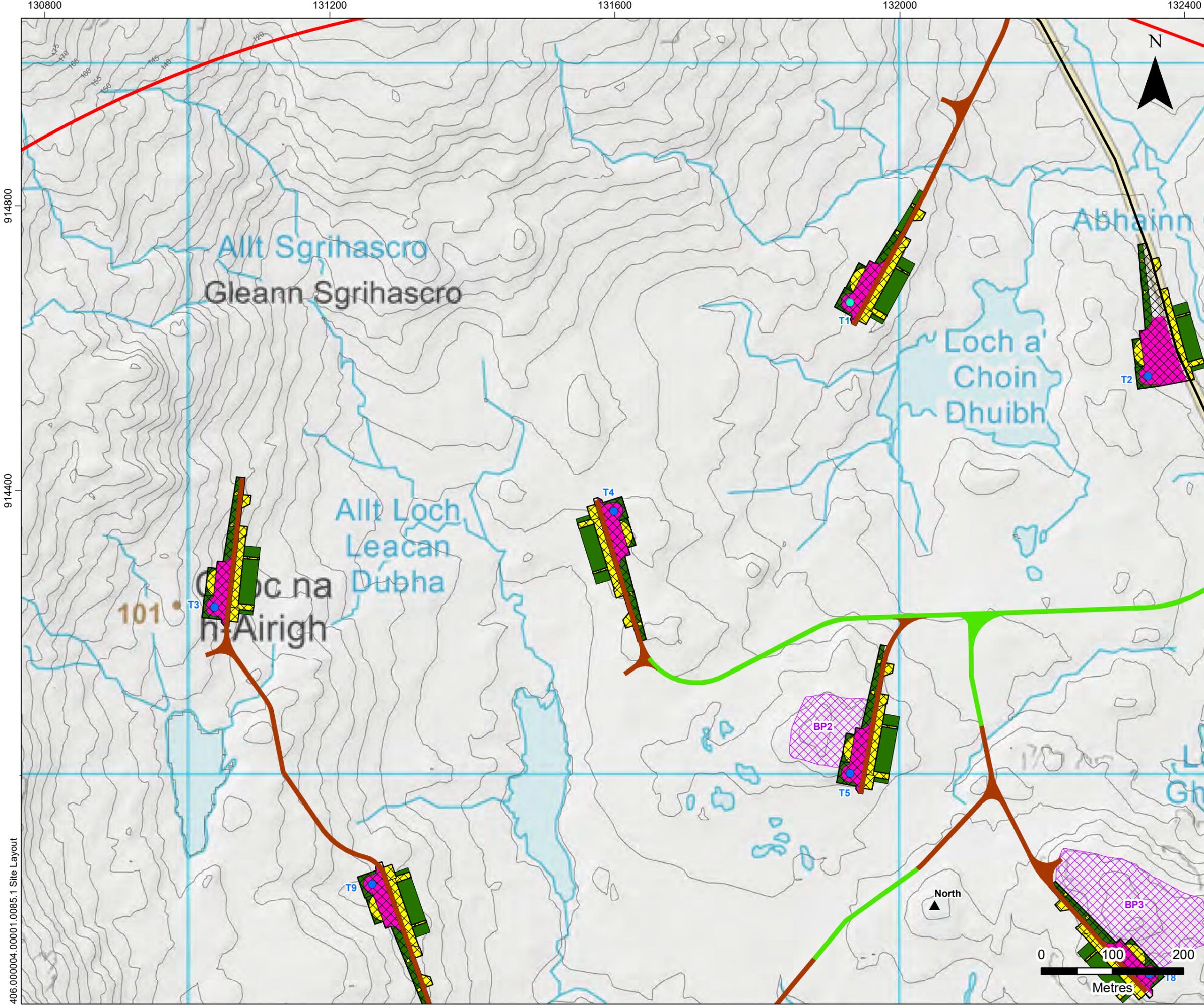
SLR

UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

FIGURE 3.1d

Scale 1:5,000 @ A3	Date AUGUST 2023
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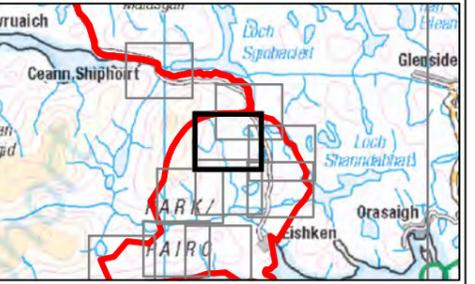




**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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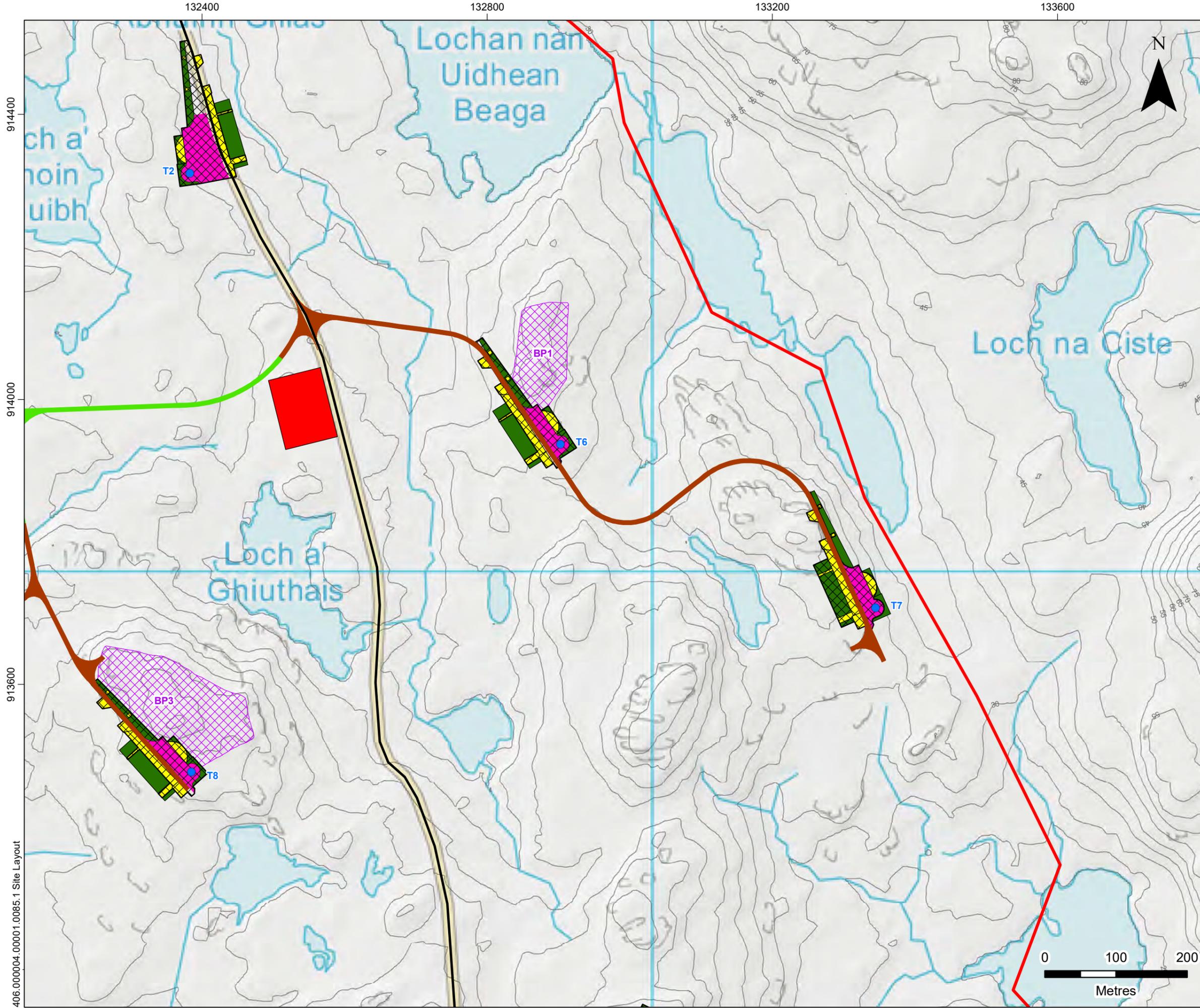
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**UISENIS WIND FARM - EIA**  
**DESCRIPTION OF THE DEVELOPMENT**  
**SITE LAYOUT**

**FIGURE 3.1e**

Scale 1:5,000 @ A3      Date AUGUST 2023

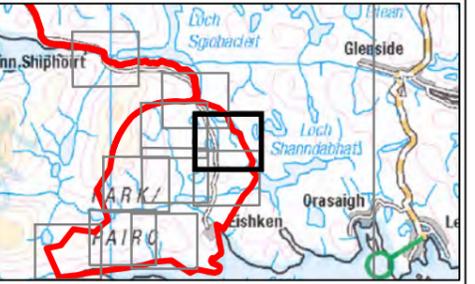
406.00004.00001.0085.1 Site Layout



**LEGEND**

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

**FIGURE 3.1f**  
Scale 1:5,000 @ A3 Date AUGUST 2023



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914000

913600

132400

132800

133200

133600

130800

131200

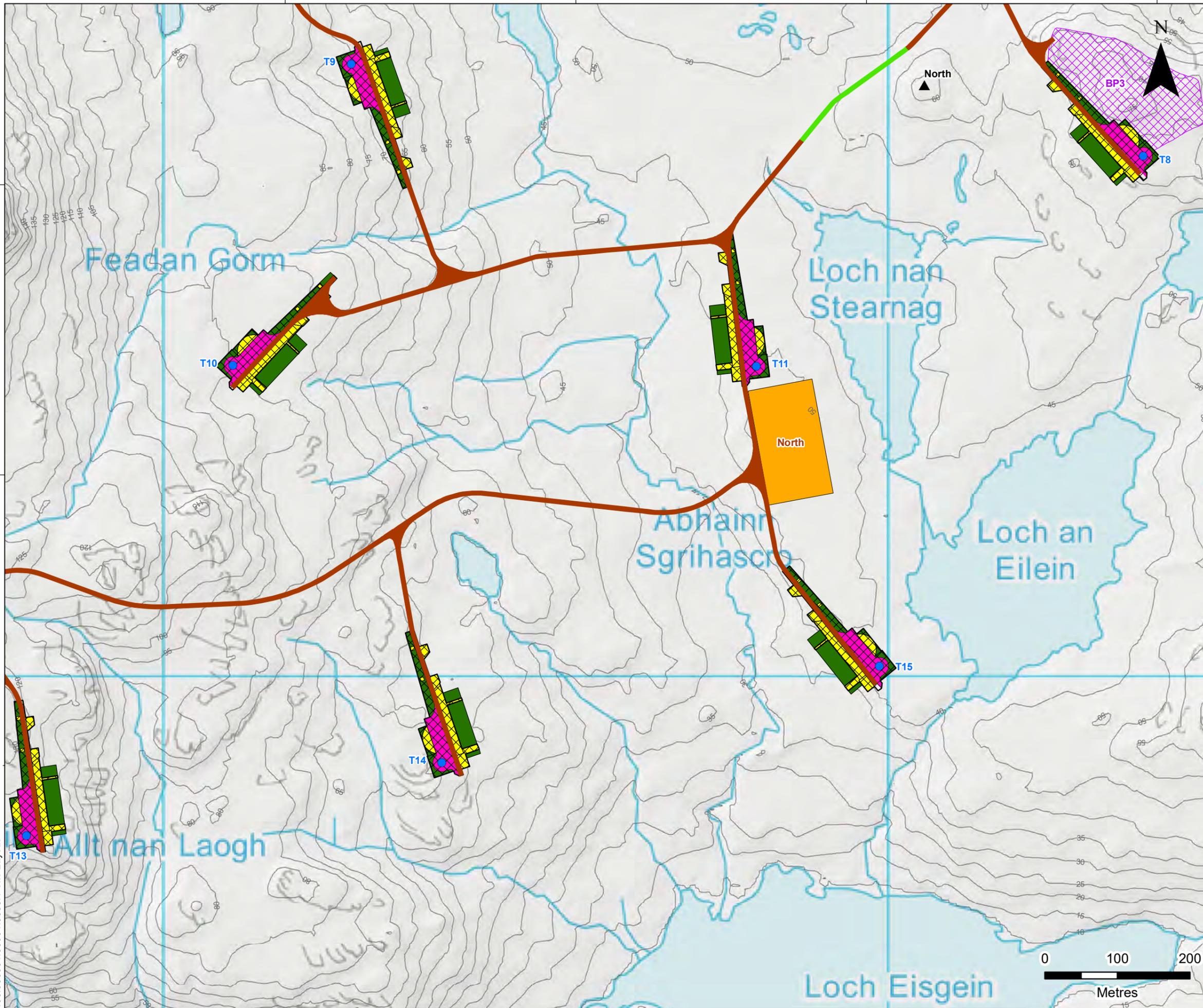
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132000

913600

913200

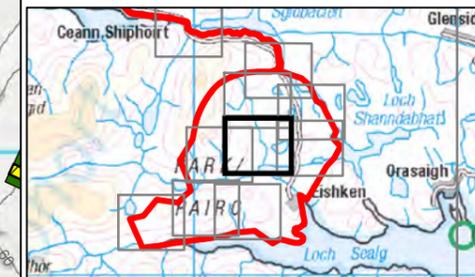
406.00004.00001.0085.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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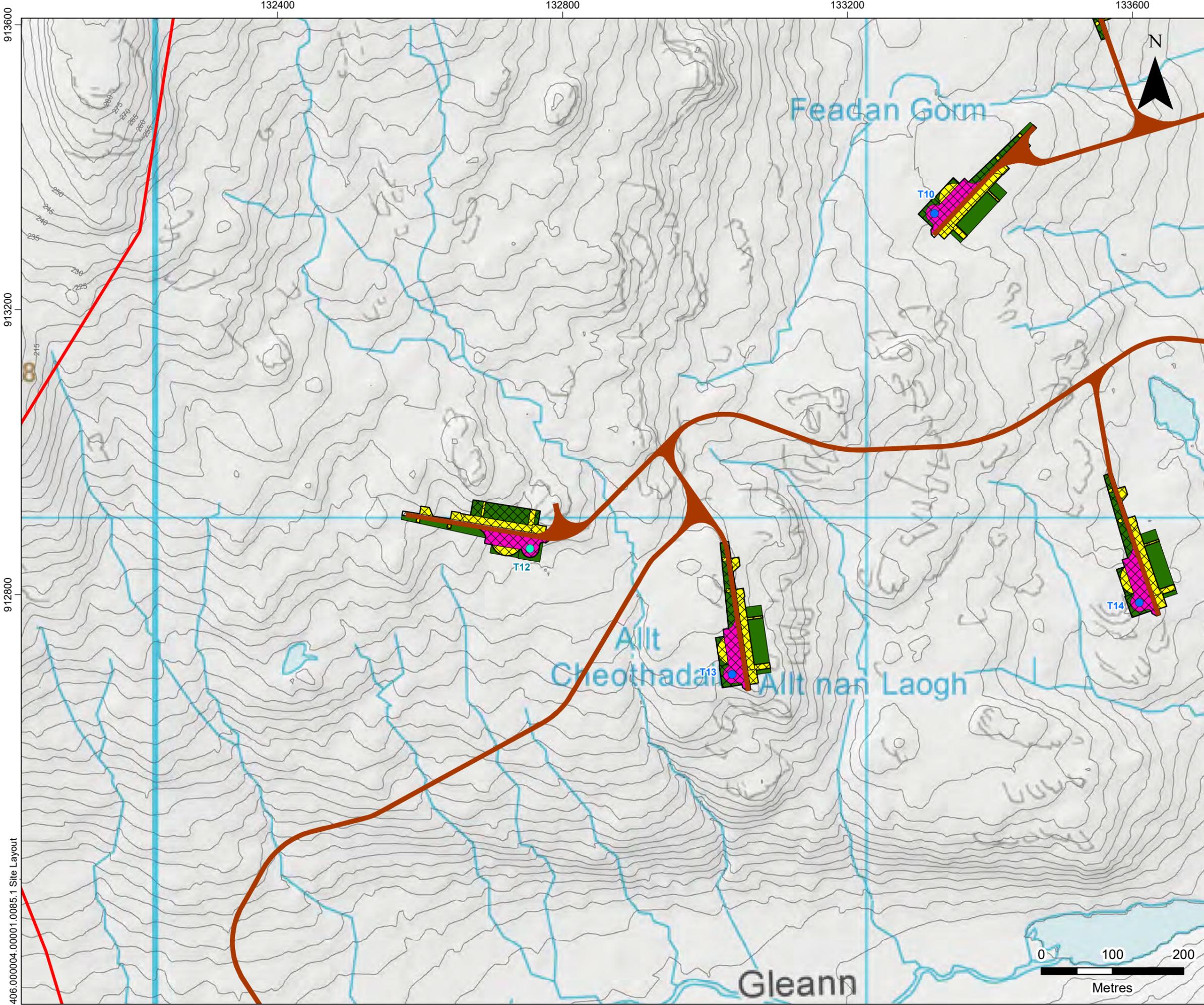
UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

**FIGURE 3.1g**

Scale 1:5,000 @ A3

Date AUGUST 2023

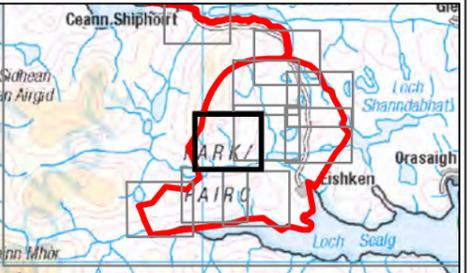




**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

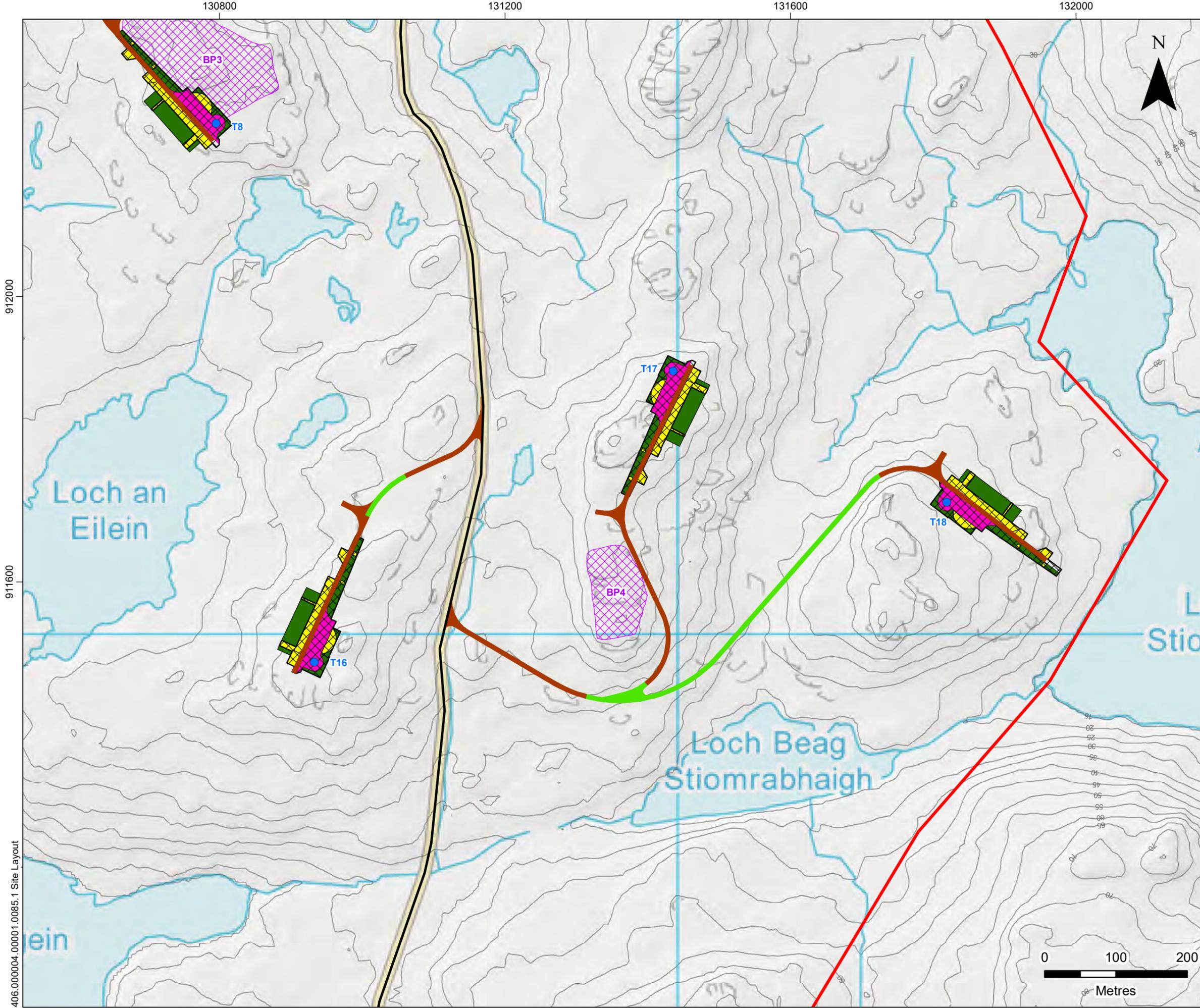
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**FIGURE 3.1h**

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Scale 1:5,000 @ A3	Date AUGUST 2023
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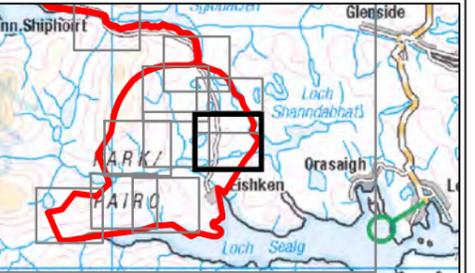




**LEGEND**

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



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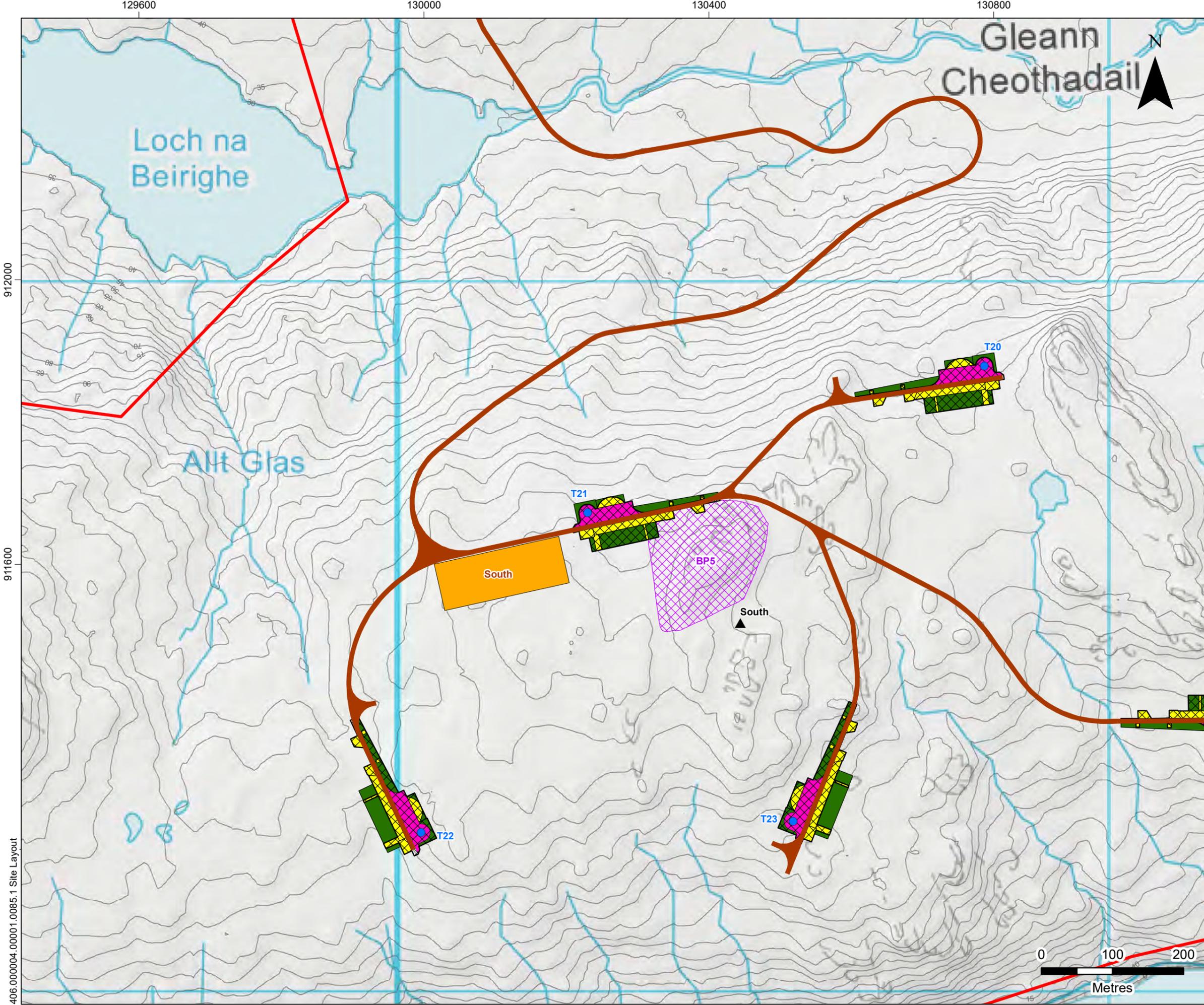
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT  
**FIGURE 3.1i**

Scale 1:5,000 @ A3      Date AUGUST 2023

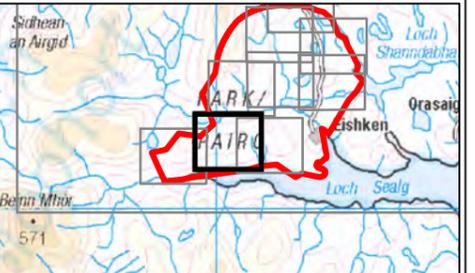
406.00004.00001.0085.1 Site Layout



**LEGEND**

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



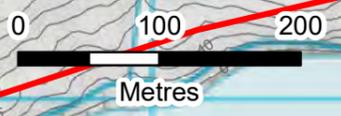
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
**SITE LAYOUT**

**FIGURE 3.1j**

Scale 1:5,000 @ A3	Date AUGUST 2023
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912000

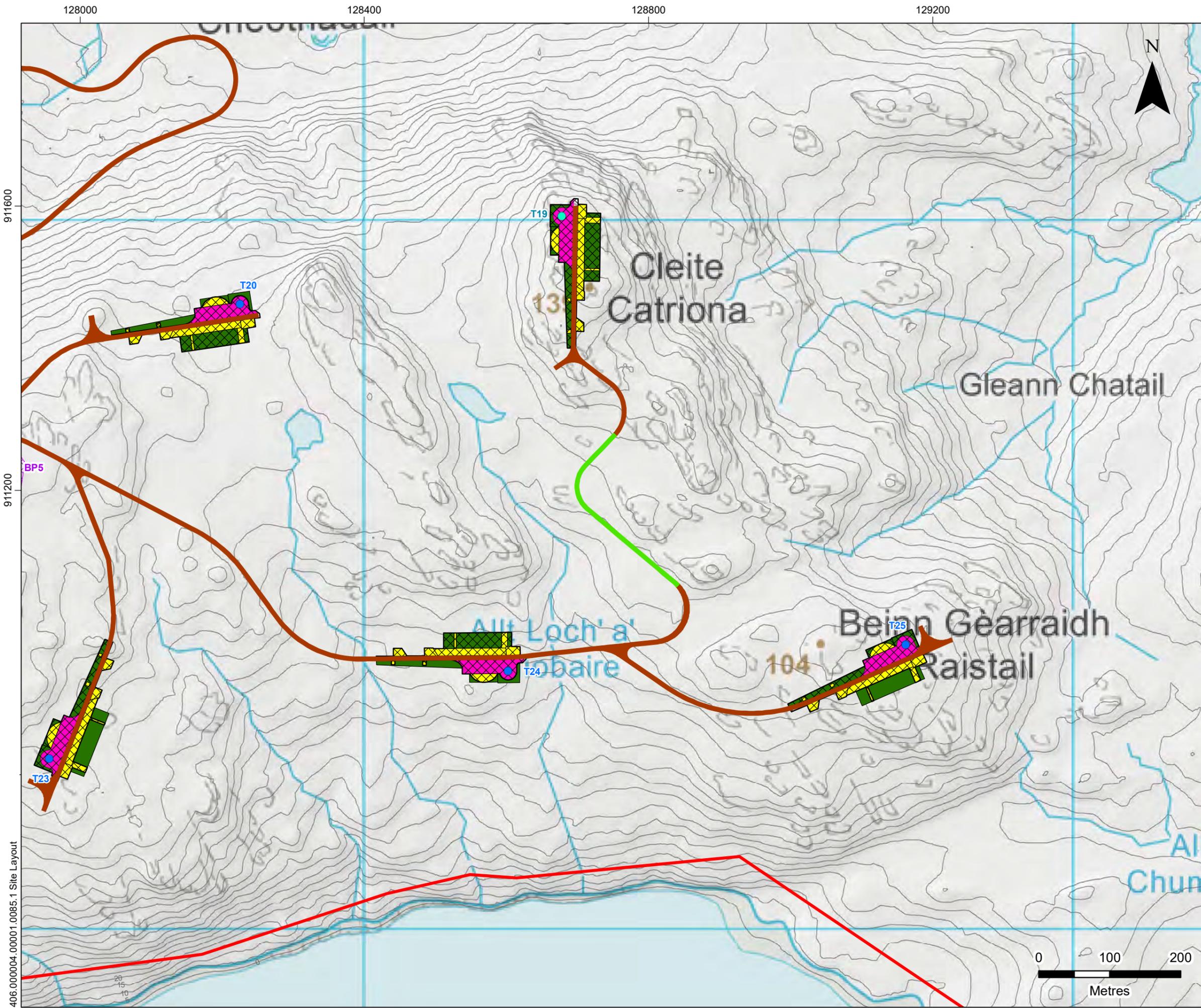
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129600

130000

130400

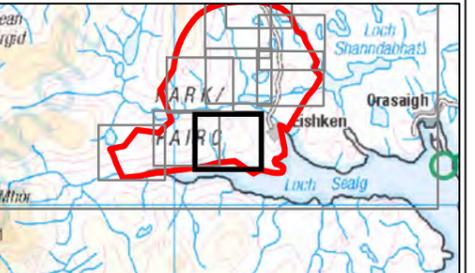
130800



**LEGEND**

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

**Note**  
Turbine 19 to 25 have Painted Blade Mitigation

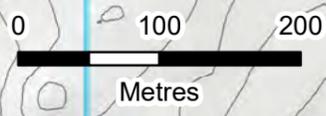


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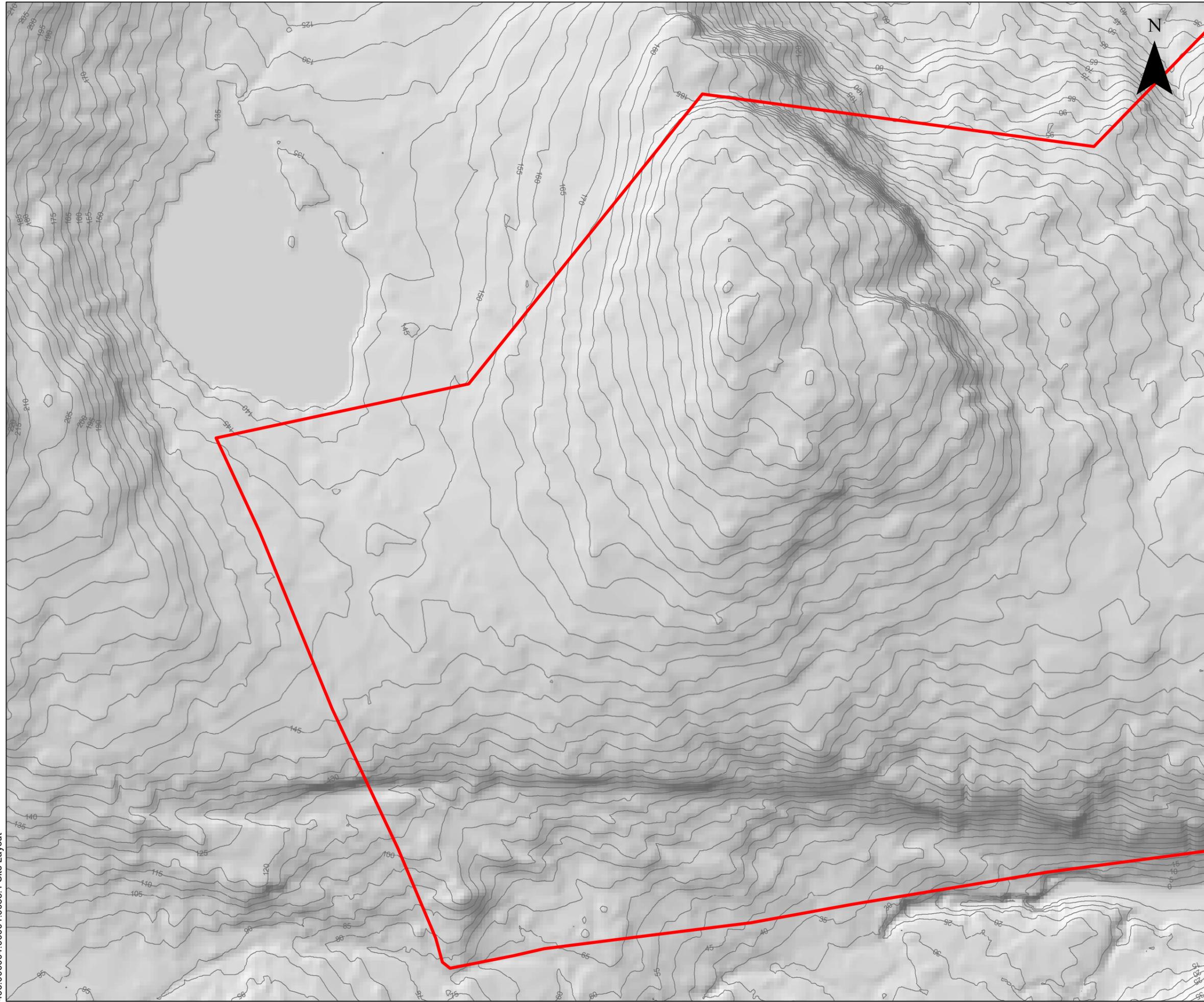
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT

**FIGURE 3.1k**  
Scale 1:5,000 @ A3 Date AUGUST 2023



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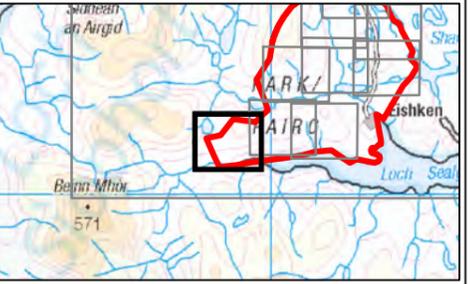


**LEGEND**

 Application Boundary



**Note**  
Turbine 19 to 25 have Painted Blade Mitigation



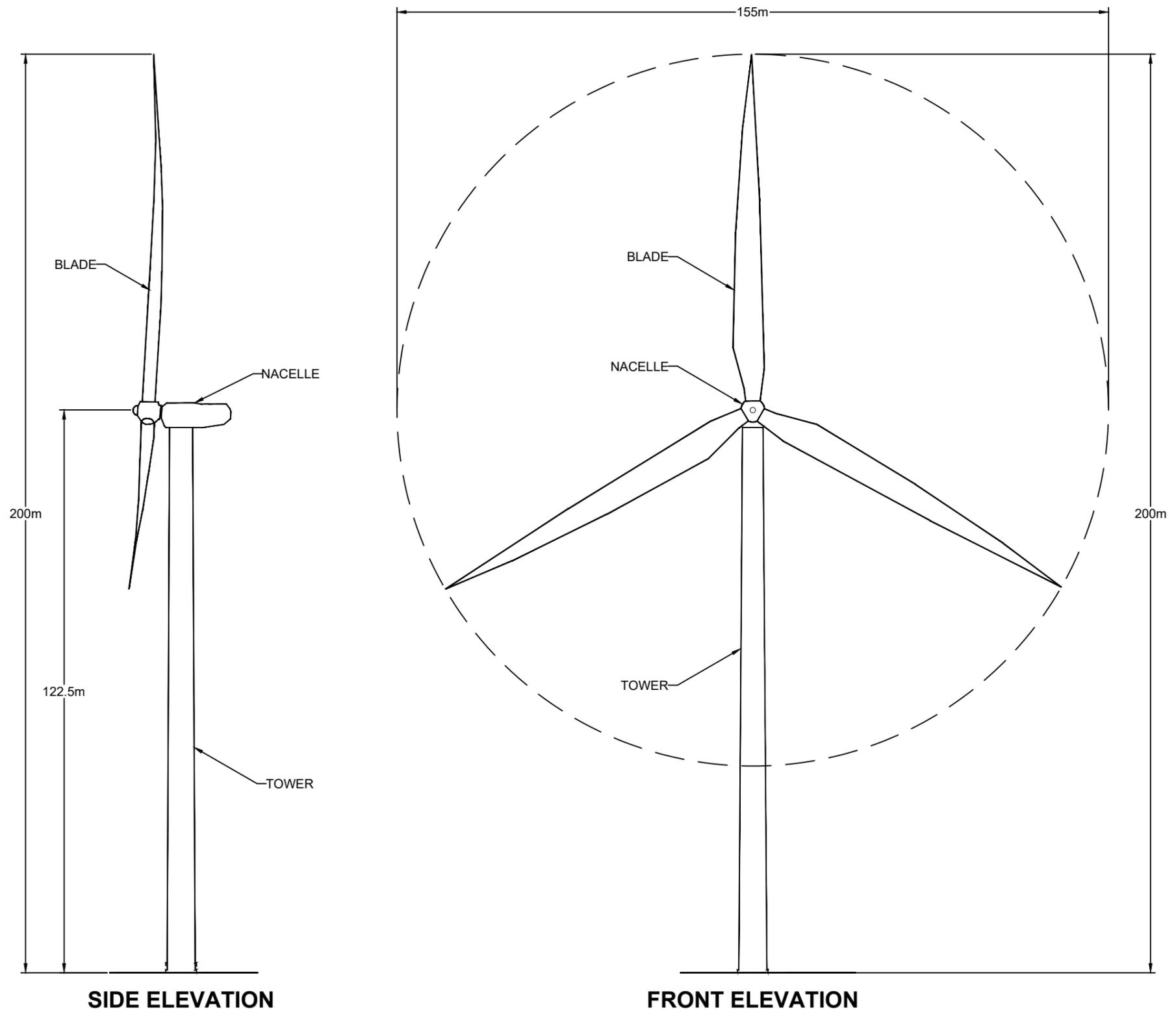
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UISENIS WIND FARM - EIA  
DESCRIPTION OF THE DEVELOPMENT  
SITE LAYOUT  
**FIGURE 3.11**

Scale 1:5,000 @ A3 Date AUGUST 2023

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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
TYPICAL TURBINE ELEVATION

**FIGURE 3.2a**

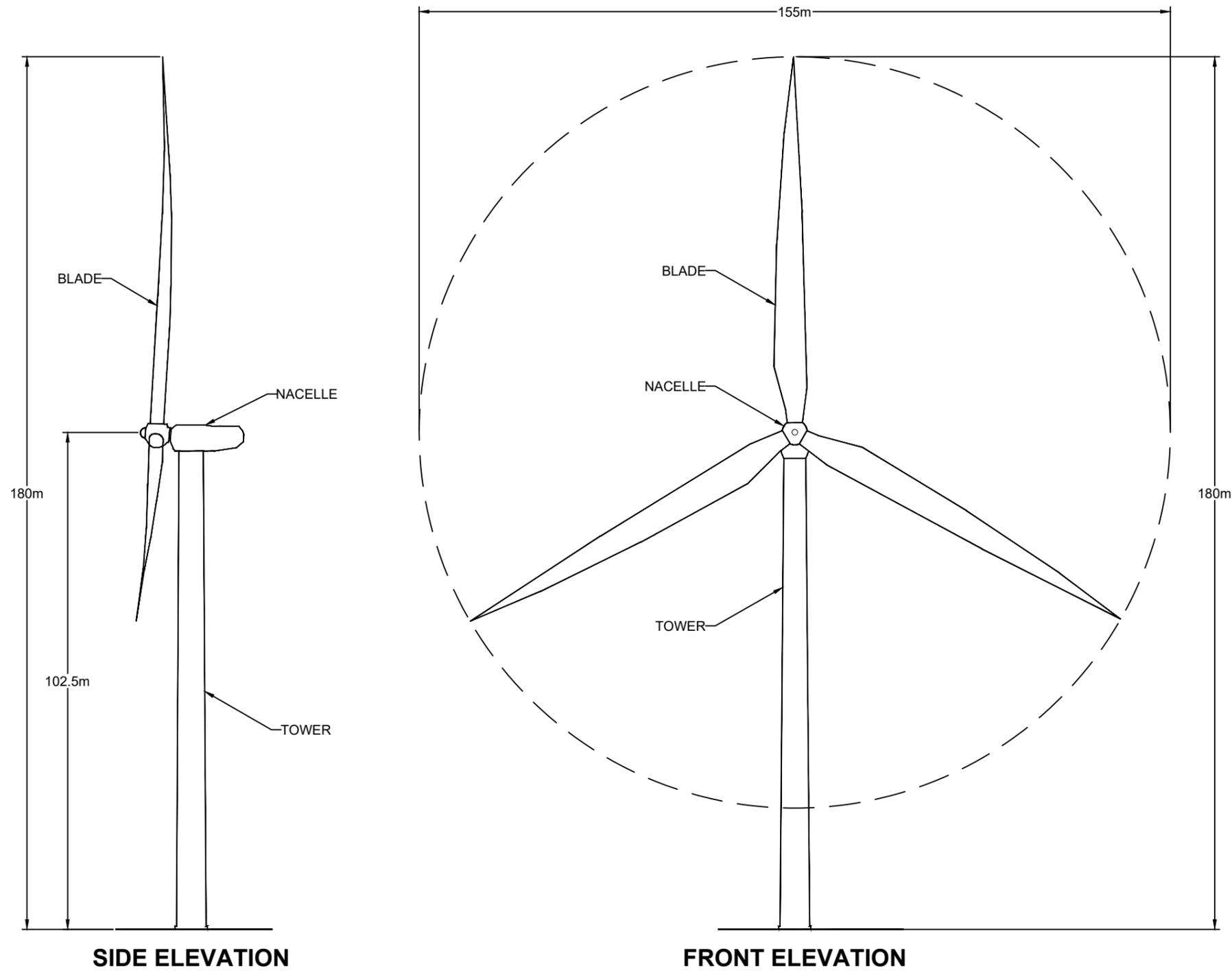
Scale  
1:1000 @ A3

Date  
AUGUST 2023



64341.00001.Fig-3.2a.1\_Typical\_Turbine\_Elevation.dwg

64341.00001.Fig-3.2b.1\_Typical\_Turbine\_Elevation.dwg



LEGEND

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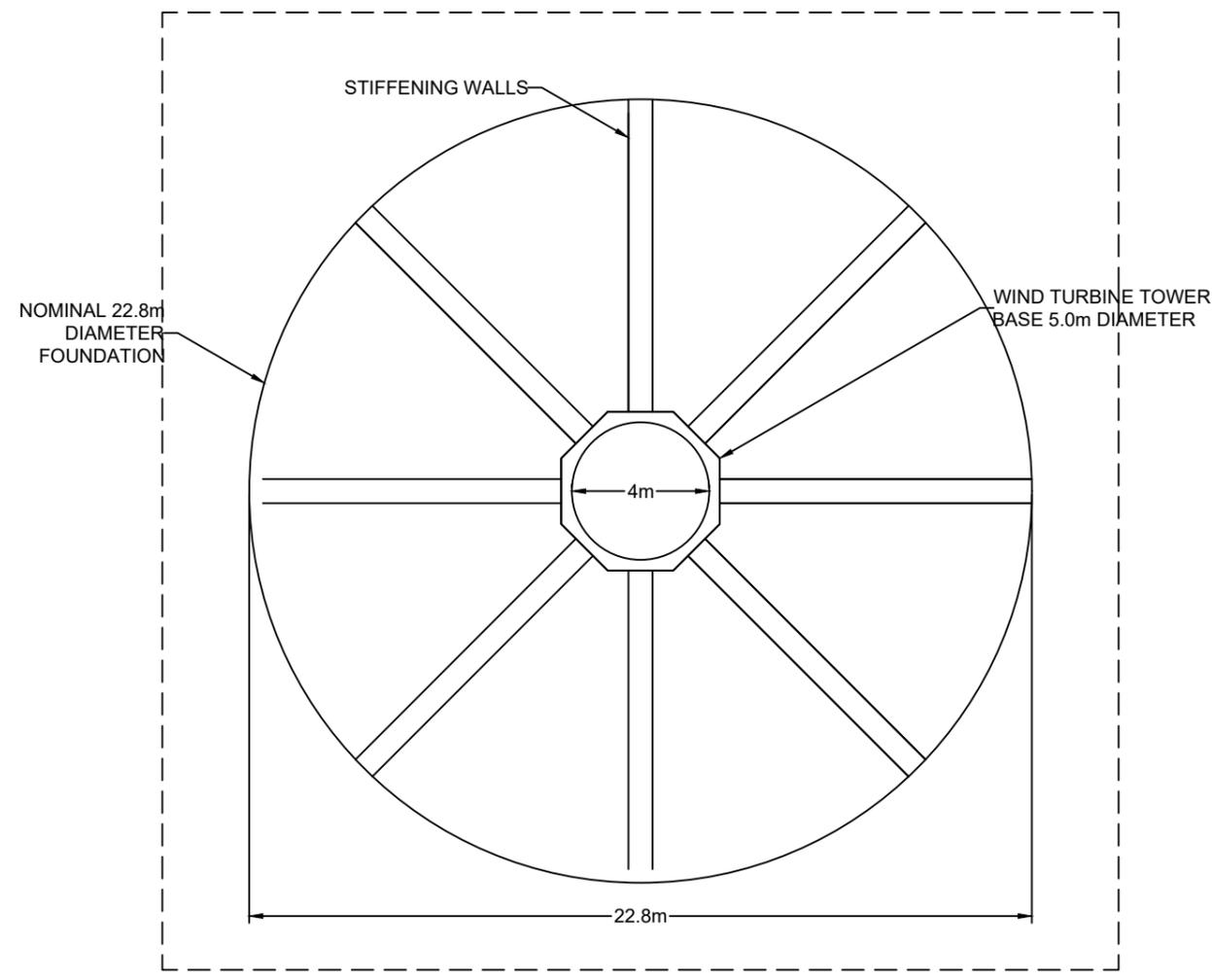
UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
TYPICAL TURBINE ELEVATION

**FIGURE 3.2b**

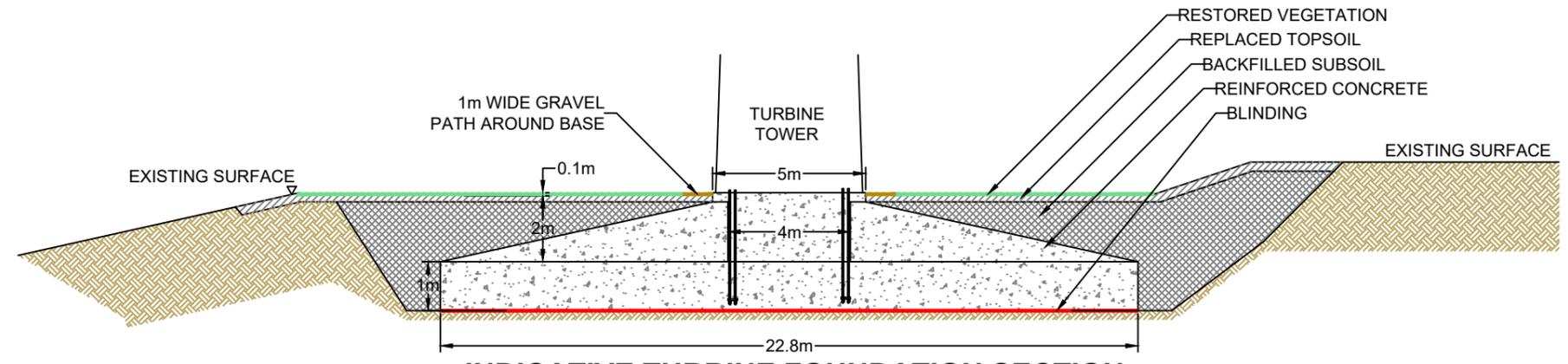
Scale 1:1000 @ A3 Date AUGUST 2023

NOTES

1. FOUNDATIONS OVER AN AREA OF AROUND 22.8m x 22.8m WOULD BE LAID.
2. THE AREA OF GROUND EXCAVATED FOR EACH FOUNDATION WILL VARY TO ACCOMMODATE ACCESS FOR CONSTRUCTION AND FOR ANY FOUNDATION PREPARATORY WORKS.



**INDICATIVE TURBINE FOUNDATION LAYOUT PLAN  
(DEPENDENT ON GROUND CONDITIONS)**



**INDICATIVE TURBINE FOUNDATION SECTION**



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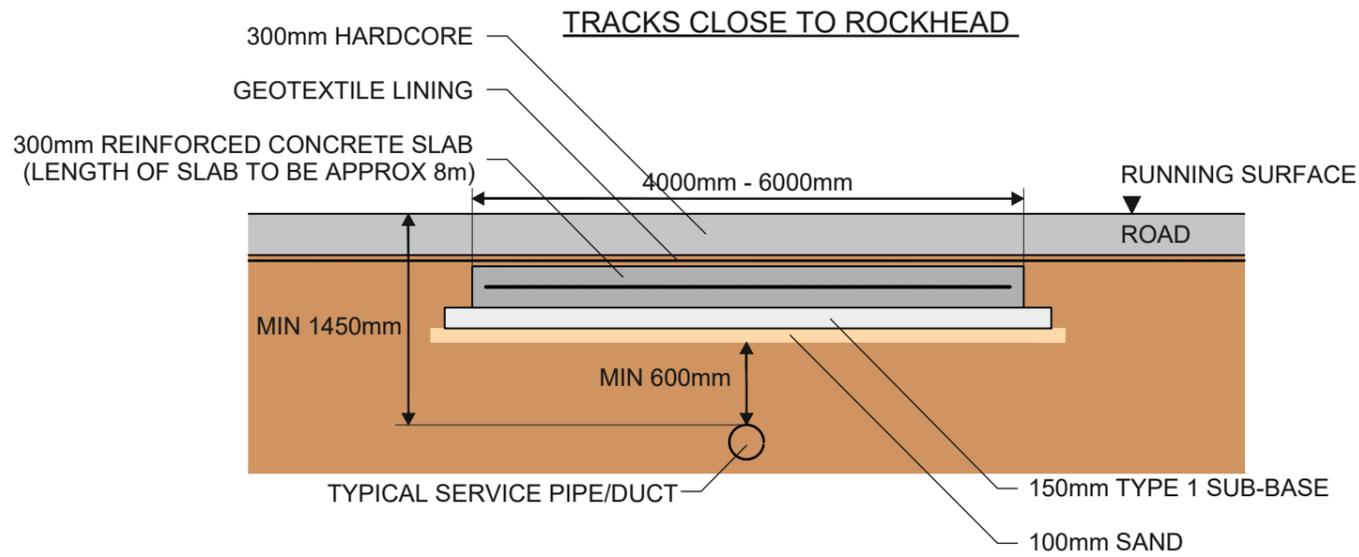
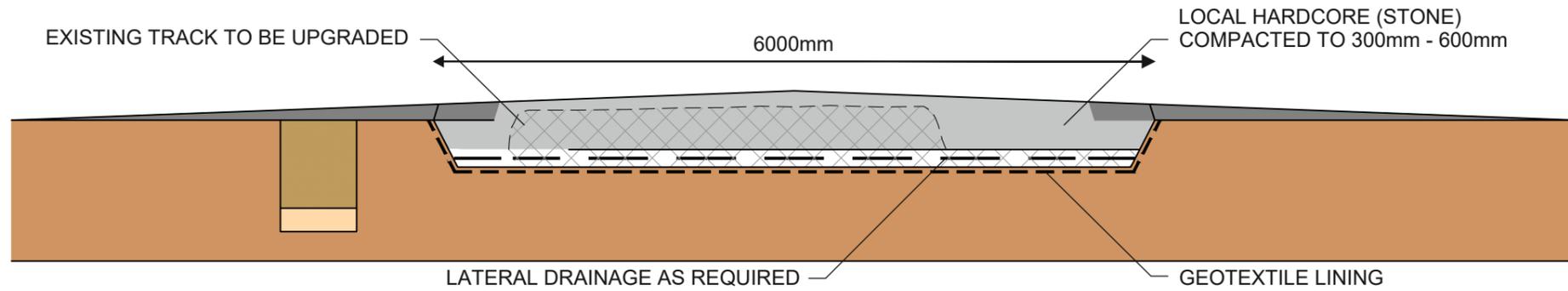
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
**INDICATIVE TURBINE FOUNDATIONS**

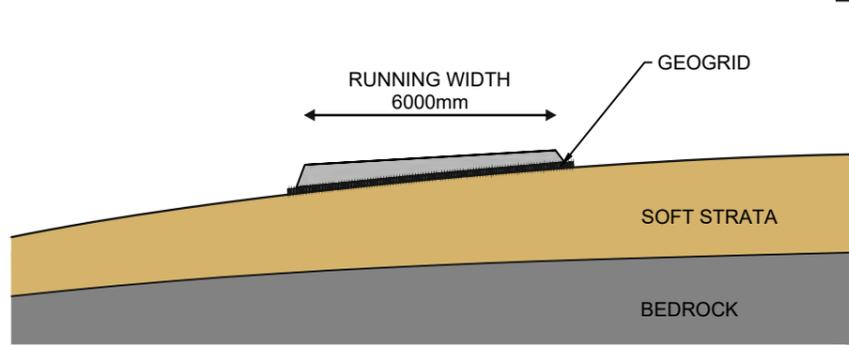
**FIGURE 3.3**

Scale 1:200 @ A3 Date AUGUST 2023

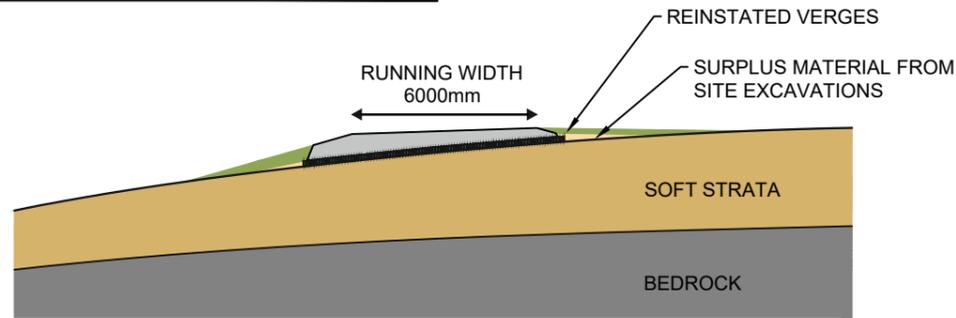
64341.00001.Fig-3.3.1\_Ind\_Turbine\_Foundations.dwg



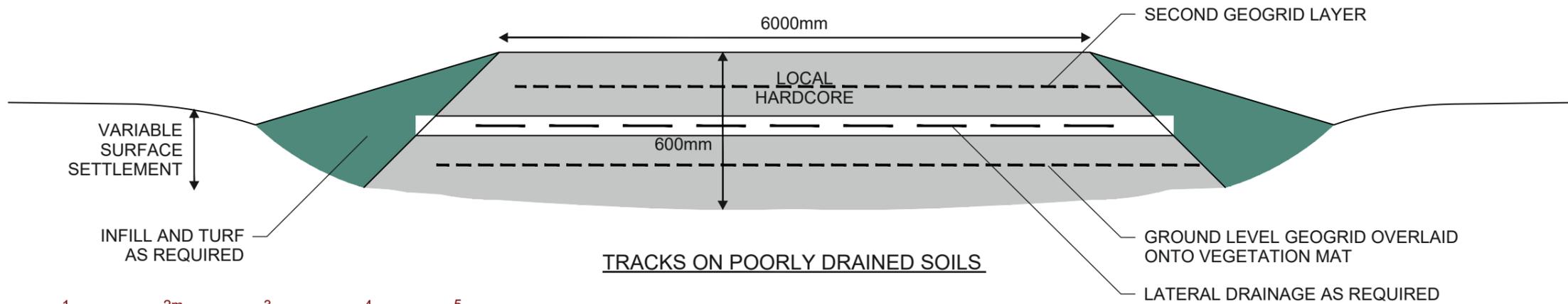
**INDICATIVE PROTECTION TO SERVICES**



**FLOATING ROAD, BASIC CONSTRUCTION**  
N.T.S.



**FLOATING ROAD REINSTATEMENT**  
N.T.S.



**TRACKS ON POORLY DRAINED SOILS**



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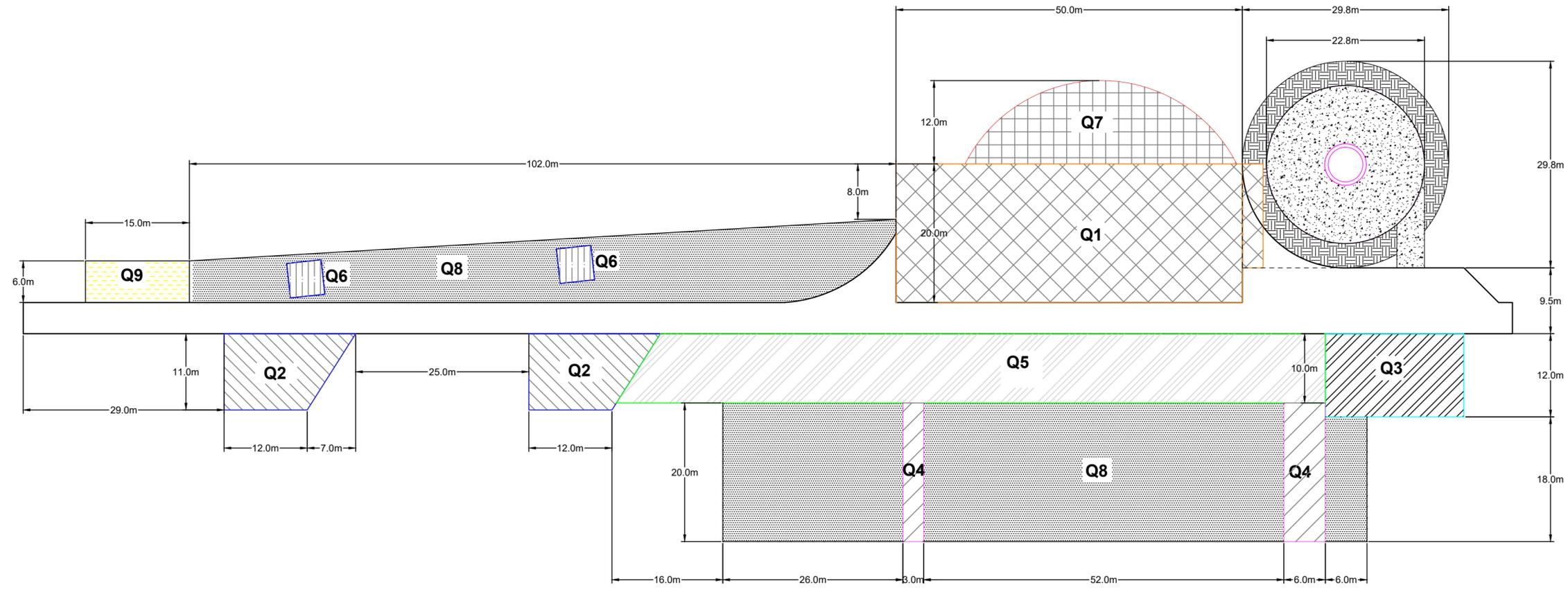
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE TRACK DETAILS

**FIGURE 3.4**

Scale  
AS SHOWN @ A3

Date  
AUGUST 2023



**Legend**

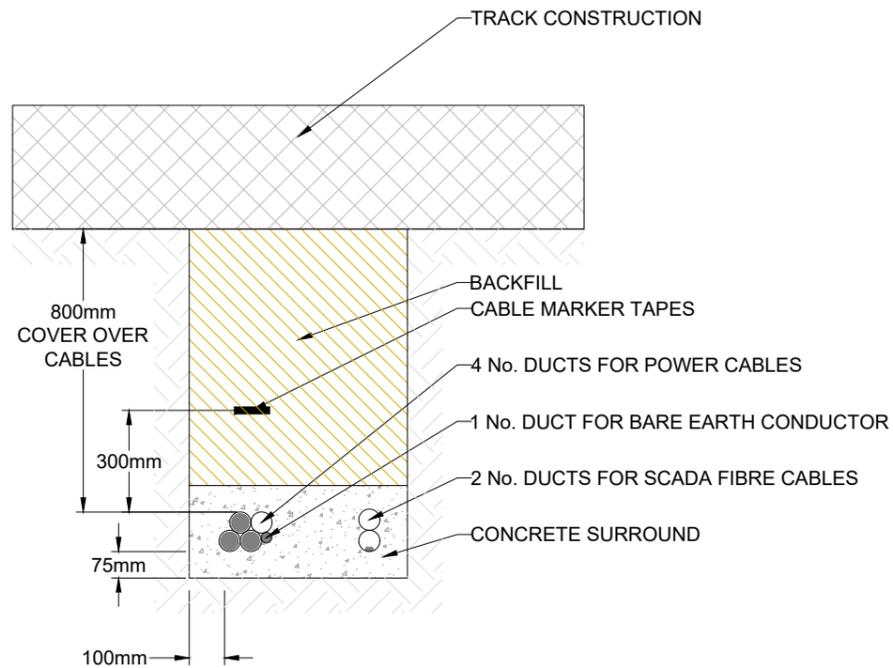
- |   |  |  |
|---|--|--|
| SITE ROAD (PERMANENT)                     | Q4 TRESTLE AREA FOR BLADES (TEMPORARY)     | Q8 WORKING AREA AROUND THE BLADES AND BOOM (CLEARANCE ONLY)              |
| Q1 HARDSTAND FOR MAIN CRANE (PERMANENT)   | Q5 STORAGE AREA FOR COMPONENTS (TEMPORARY) | Q9 WORKING AREA AROUND THE BOOM END (TEMPORARY)                          |
| Q2 HARDSTAND FOR ASSIST CRANE (TEMPORARY) | Q6 SUPPORT AREA BOOM ASSEMBLY (TEMPORARY)  | CLEARED AREA OF ANY OBSTACLES AND PREPARED AS A WORKING AREA (TEMPORARY) |
| Q3 STORAGE & CONTAINER AREA (TEMPORARY)   | Q7 FLYING BALLAST LAYDOWN AREA (TEMPORARY) | FOUNDATION AREA, IDEALLY LEVELED WITH Q1 AND SITE ROAD (PERMANENT)       |



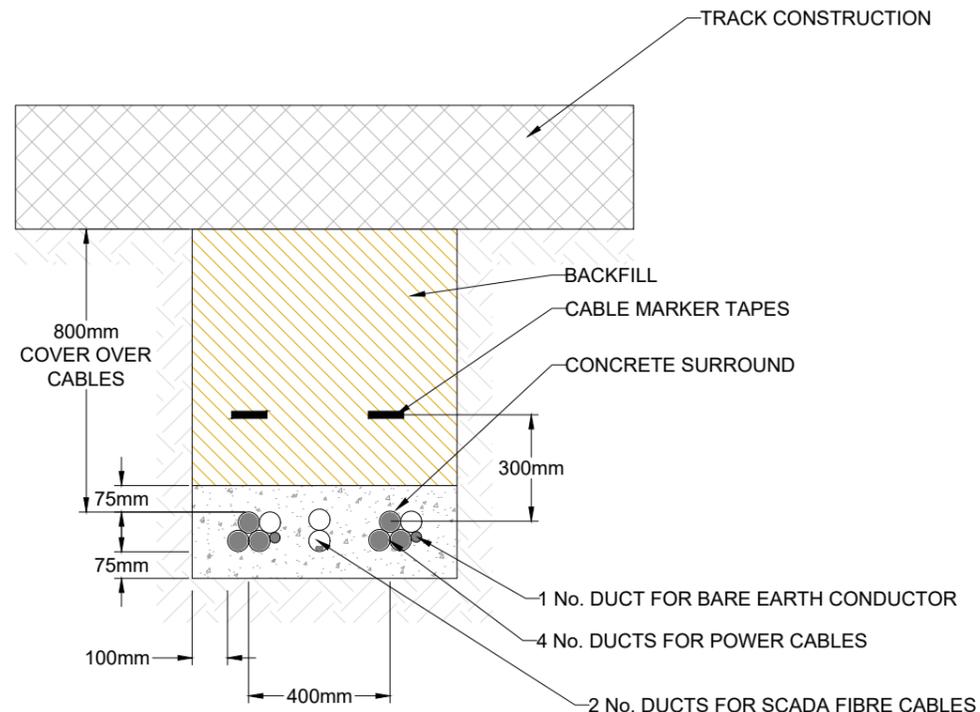
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UISENIS WIND FARM - EIA  
 DESCRIPTION OF DEVELOPMENT  
**INDICATIVE CRANE HARDSTANDING**  
**FIGURE 3.5**  
 Scale 1:500 @ A2 Date AUGUST 2023

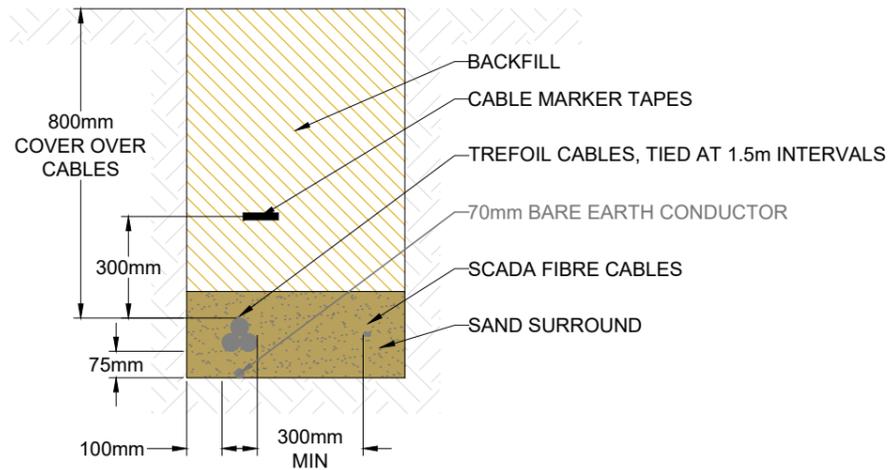


**SINGLE CIRCUIT**

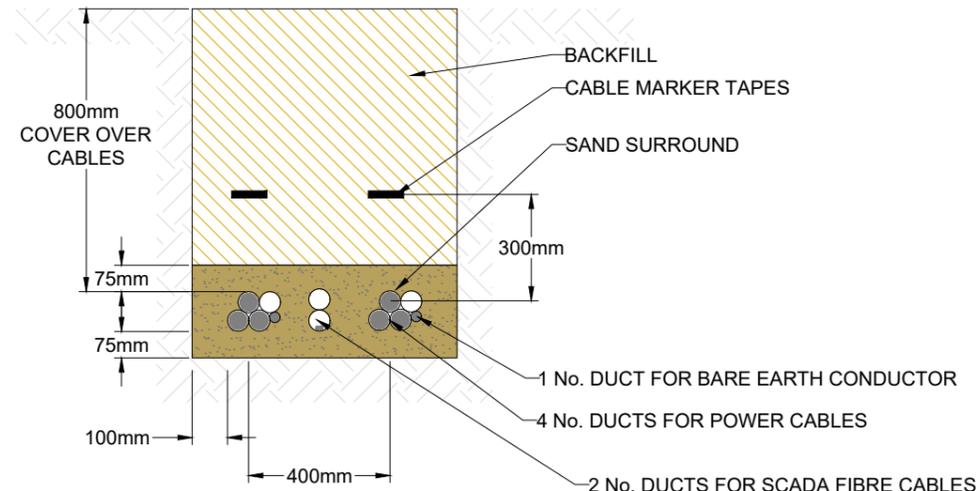


**DOUBLE CIRCUIT**

**TYPICAL SECTION THROUGH TRACK CROSSING CABLE TRENCH**

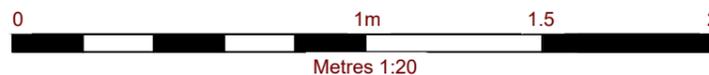


**SINGLE CIRCUIT**



**DOUBLE CIRCUIT**

**TYPICAL SECTION THROUGH CABLE TRENCH**



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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE CABLE TRENCH DETAILS

**FIGURE 3.6**

Scale 1:50 @ A3

Date AUGUST 2023

LEGEND

Indicative SSEN 132/32kV substation  
(Subject to a separate application)



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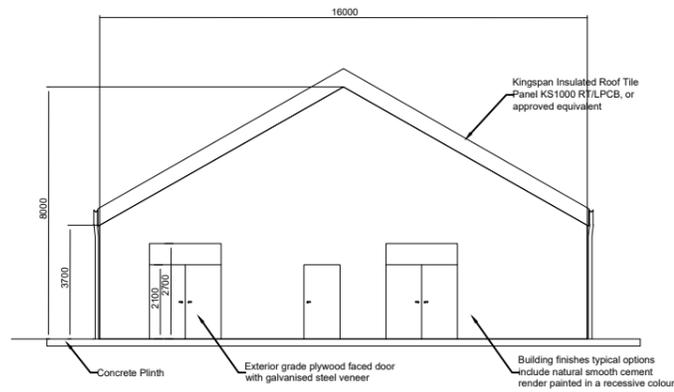
UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE SUBSTATION COMPOUND

**FIGURE 3.7**

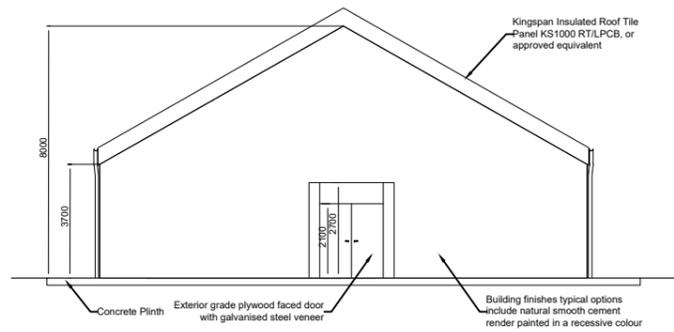
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Date AUGUST 2023

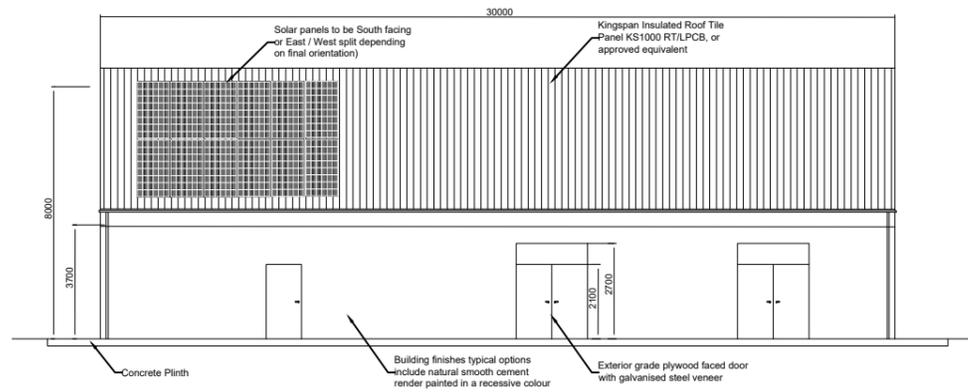
64341.00001.Fig-3.8.1\_Indicative\_Control\_Building\_Elevations.dwg



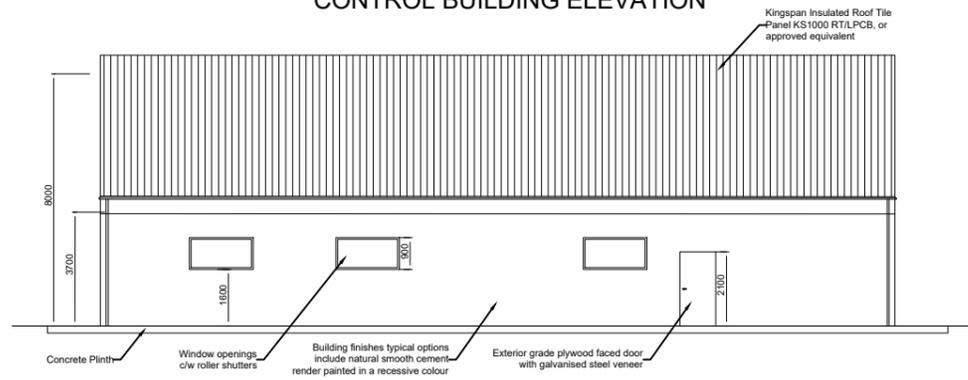
CONTROL BUILDING ELEVATION



CONTROL BUILDING ELEVATION



CONTROL BUILDING ELEVATION



CONTROL BUILDING ELEVATION

LEGEND

Note - All Building Measurements are Indicative

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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE SUBSTATION  
CONTROL BUILDING ELEVATIONS

FIGURE 3.8



Scale 1:200 @ A3

Date AUGUST 2023

64341.00001.Fig-3.9a.1\_Borrow\_Pit\_Profile\_BP1.dwg

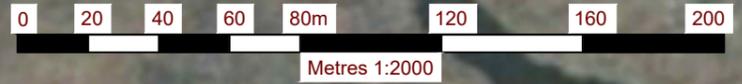


LEGEND	
	SITE BOUNDARY
	POTENTIAL BORROW PIT
	PROPOSED TRACK LAYOUT
	PROPOSED CRANE HARDSTANDING
	PROPOSED TURBINE

65.84m

151.71m

**BP1**



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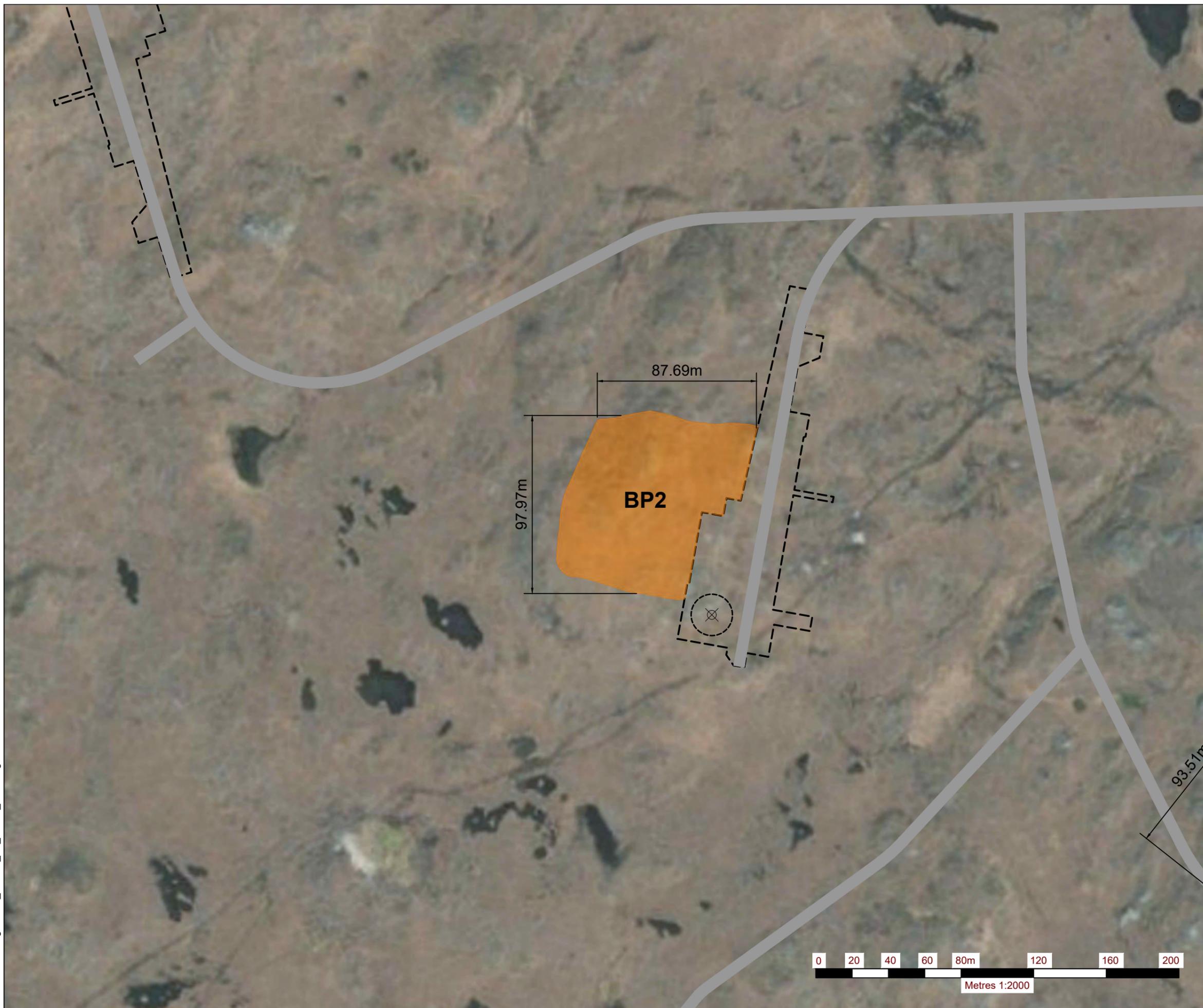
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
**BORROW PIT PROFILES - BP1**

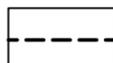
**FIGURE 3.9a**

Scale 1:2000 @ A3	Date AUGUST 2023
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64341.00001.Fig-3.9b.1\_Borrow\_Pit\_Profile\_BP2.dwg



**LEGEND**

-  SITE BOUNDARY
-  POTENTIAL BORROW PIT
-  PROPOSED TRACK LAYOUT
-  PROPOSED CRANE HARDSTANDING
-  PROPOSED TURBINE

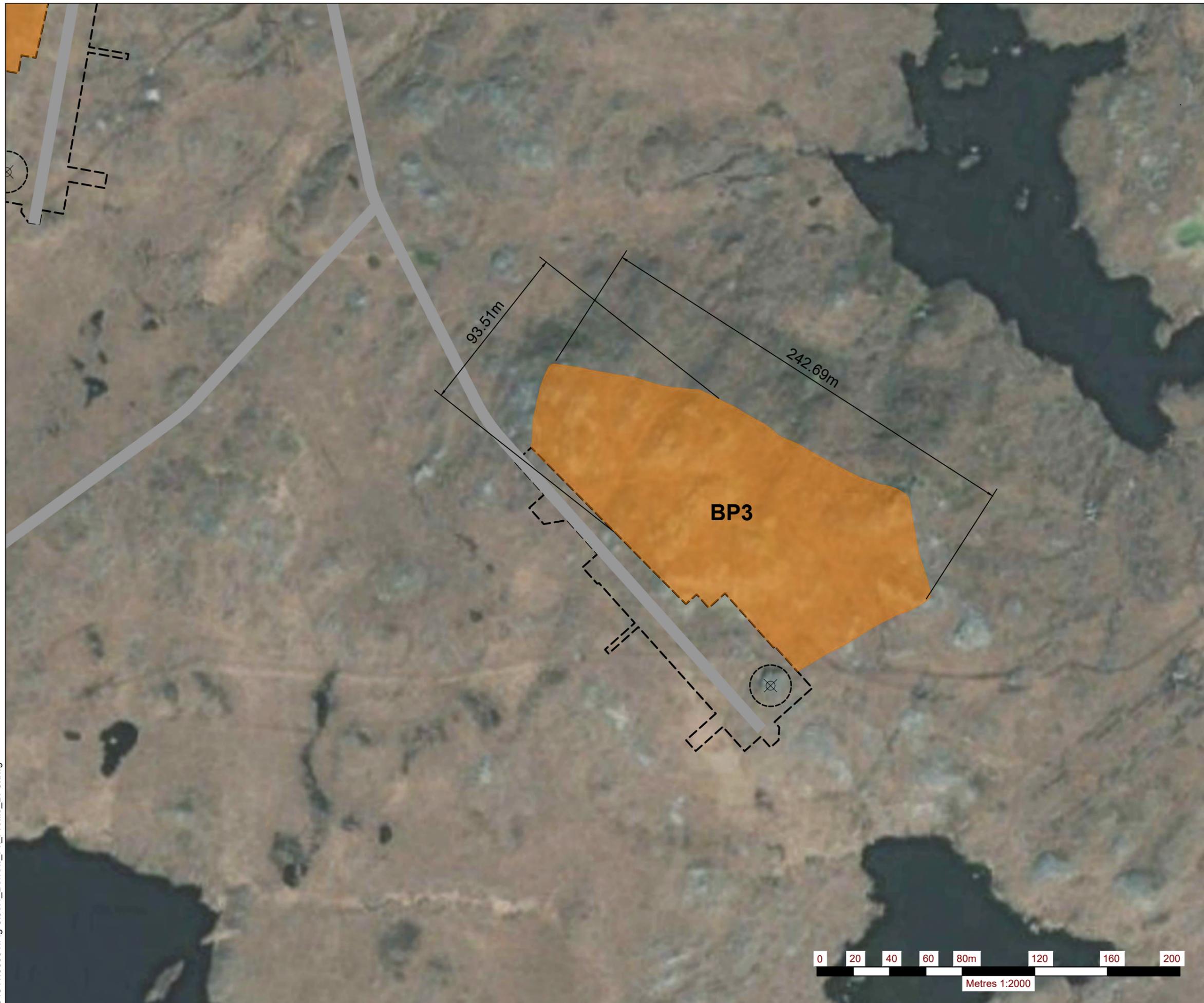
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
BORROW PIT PROFILES - BP2

**FIGURE 3.9b**

Scale 1:2000 @ A3      Date AUGUST 2023



LEGEND	
	SITE BOUNDARY
	POTENTIAL BORROW PIT
	PROPOSED TRACK LAYOUT
	PROPOSED CRANE HARDSTANDING
	PROPOSED TURBINE

64341.00001.Fig-3.9c-1\_Borrow\_Pit\_Profile\_BP3.dwg

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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
**BORROW PIT PROFILES - BP3**

**FIGURE 3.9c**

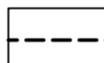


Scale 1:2000 @ A3	Date AUGUST 2023
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64341.00001.Fig-3.9d.1\_Borrow\_Pit\_Profile\_BP4.dwg



**LEGEND**

-  SITE BOUNDARY
-  POTENTIAL BORROW PIT
-  PROPOSED TRACK LAYOUT
-  PROPOSED CRANE HARDSTANDING
-  PROPOSED TURBINE

65.08m

128.64m

**BP4**



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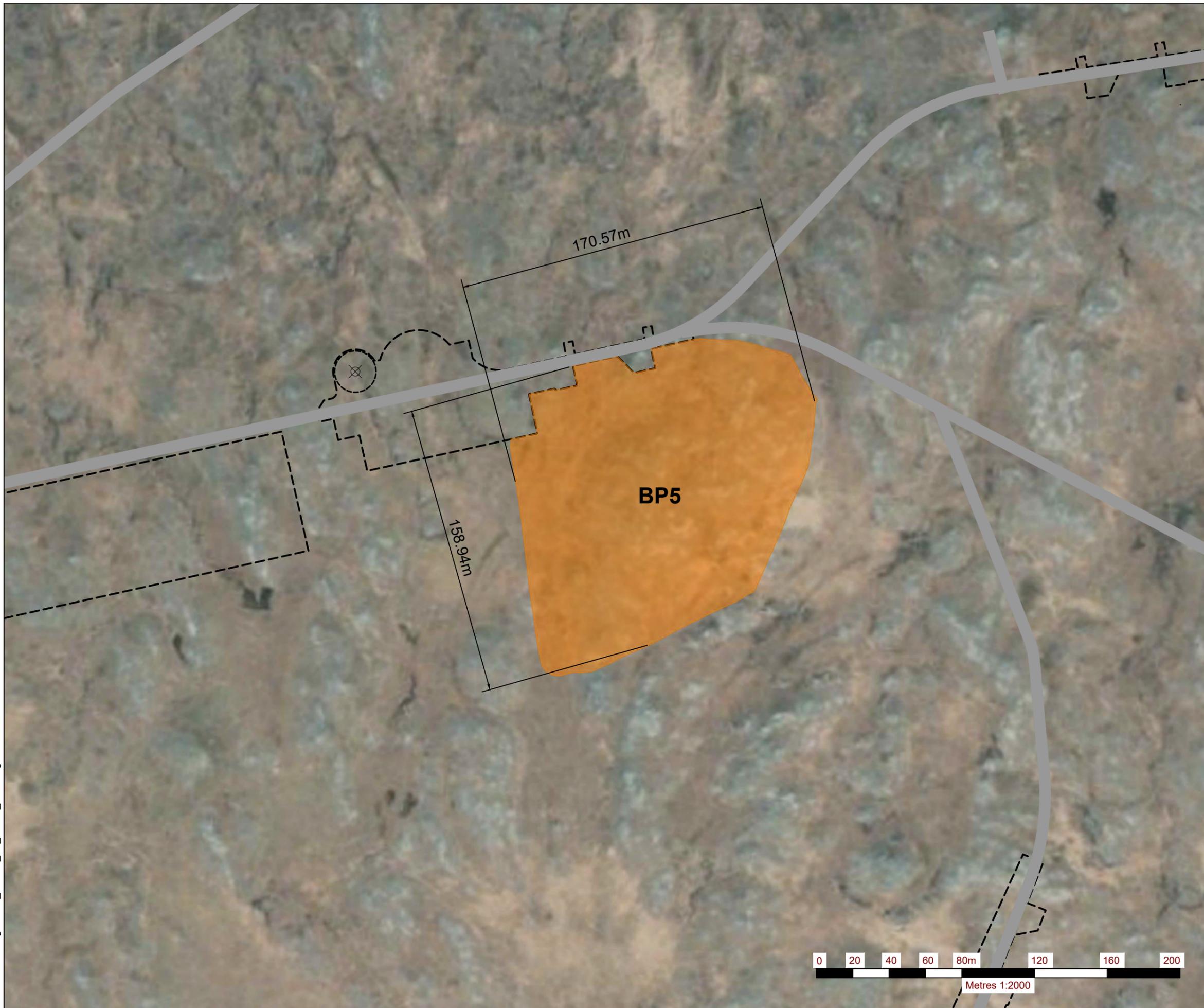
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
**BORROW PIT PROFILES - BP4**

**FIGURE 3.9d**

Scale 1:2000 @ A3 Date AUGUST 2023

64341.00001.Fig-3.9e.1\_Borrow\_Pit\_Profile\_BP5.dwg



LEGEND	
	SITE BOUNDARY
	POTENTIAL BORROW PIT
	PROPOSED TRACK LAYOUT
	PROPOSED CRANE HARDSTANDING
	PROPOSED TURBINE

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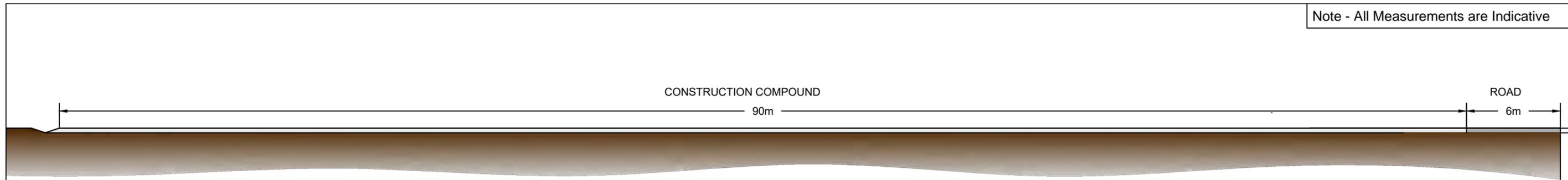
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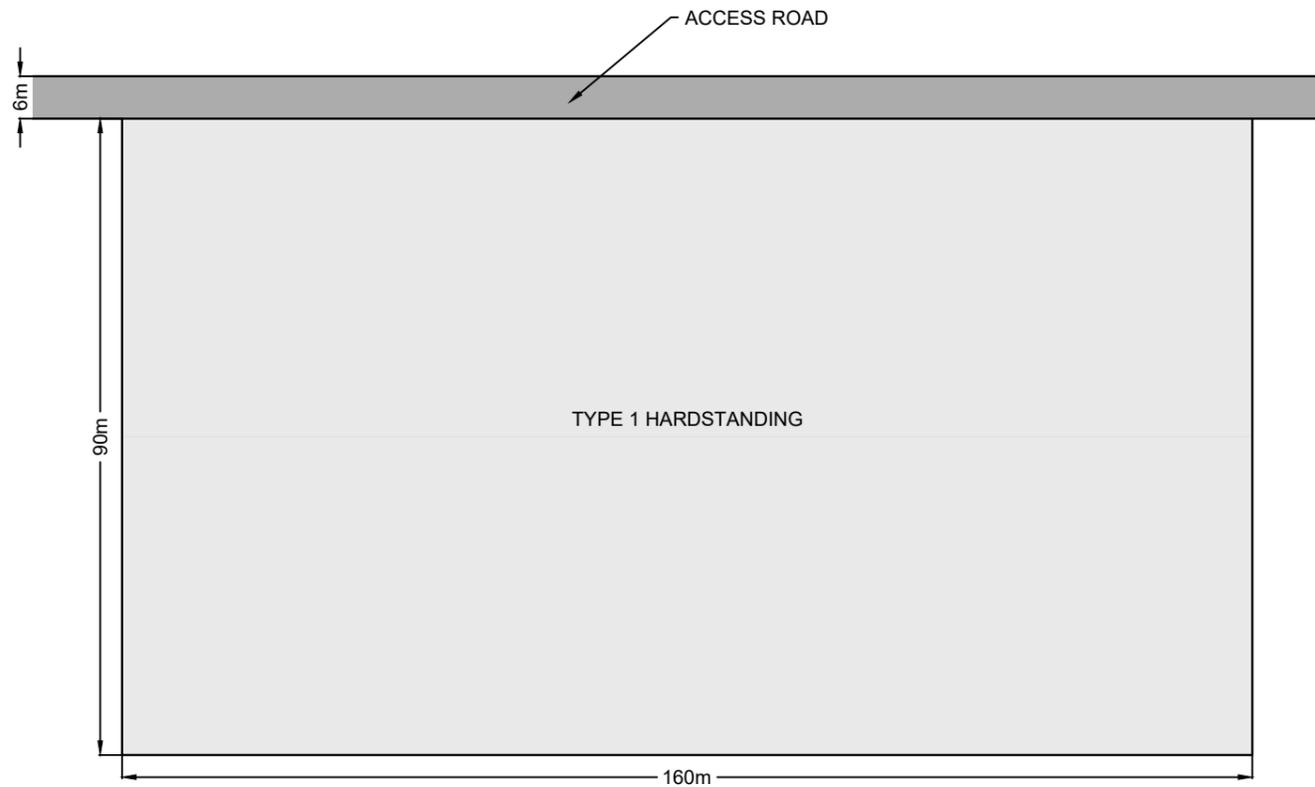
UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
**BORROW PIT PROFILES - BP5**

**FIGURE 3.9e**

Scale 1:2000 @ A3	Date AUGUST 2023
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**SECTION**  
SCALE 1:250



**PLAN**  
SCALE 1:1000

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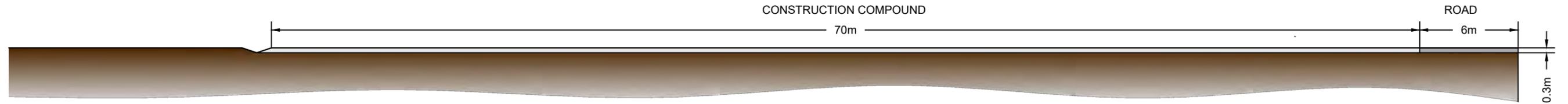
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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE TEMPORARY CONSTRUCTION  
COMPOUND - NORTH

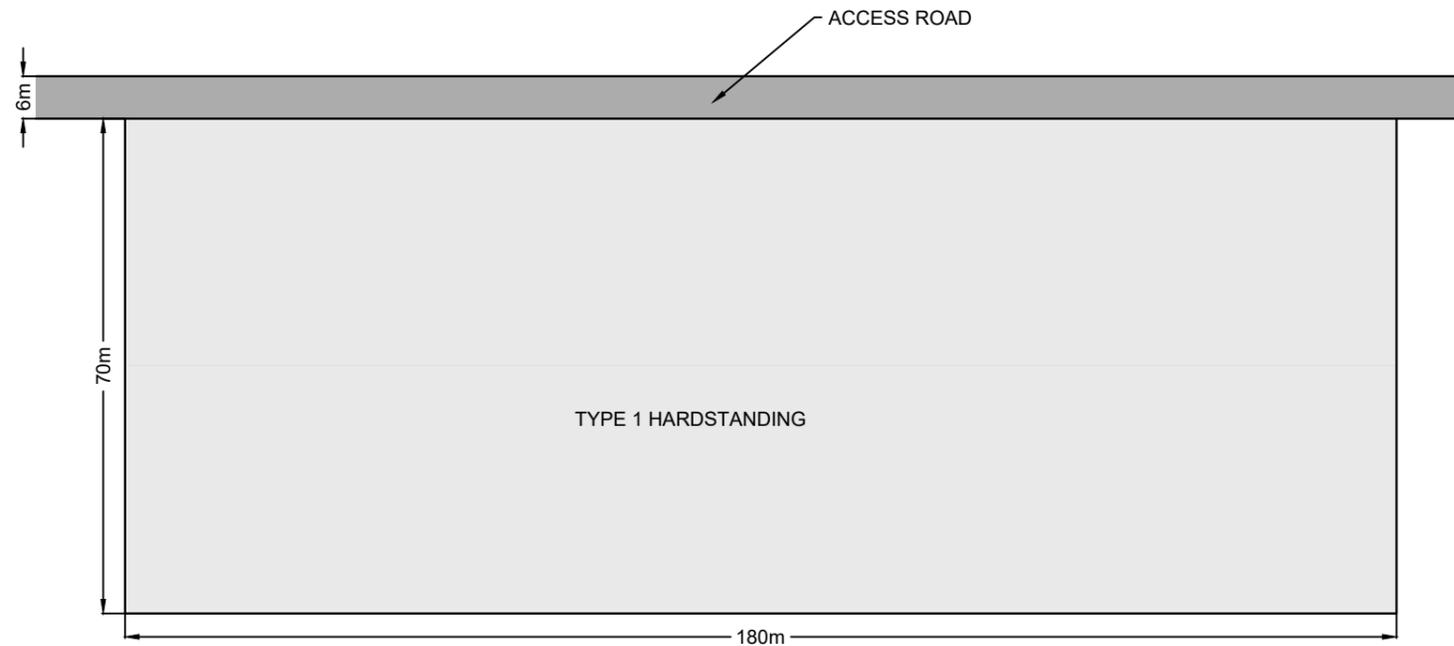
**FIGURE 3.10a**

Scale  
AS SHOWN @ A3

Date  
AUGUST 2023



**SECTION**  
SCALE 1:250



**PLAN**  
SCALE 1:1000

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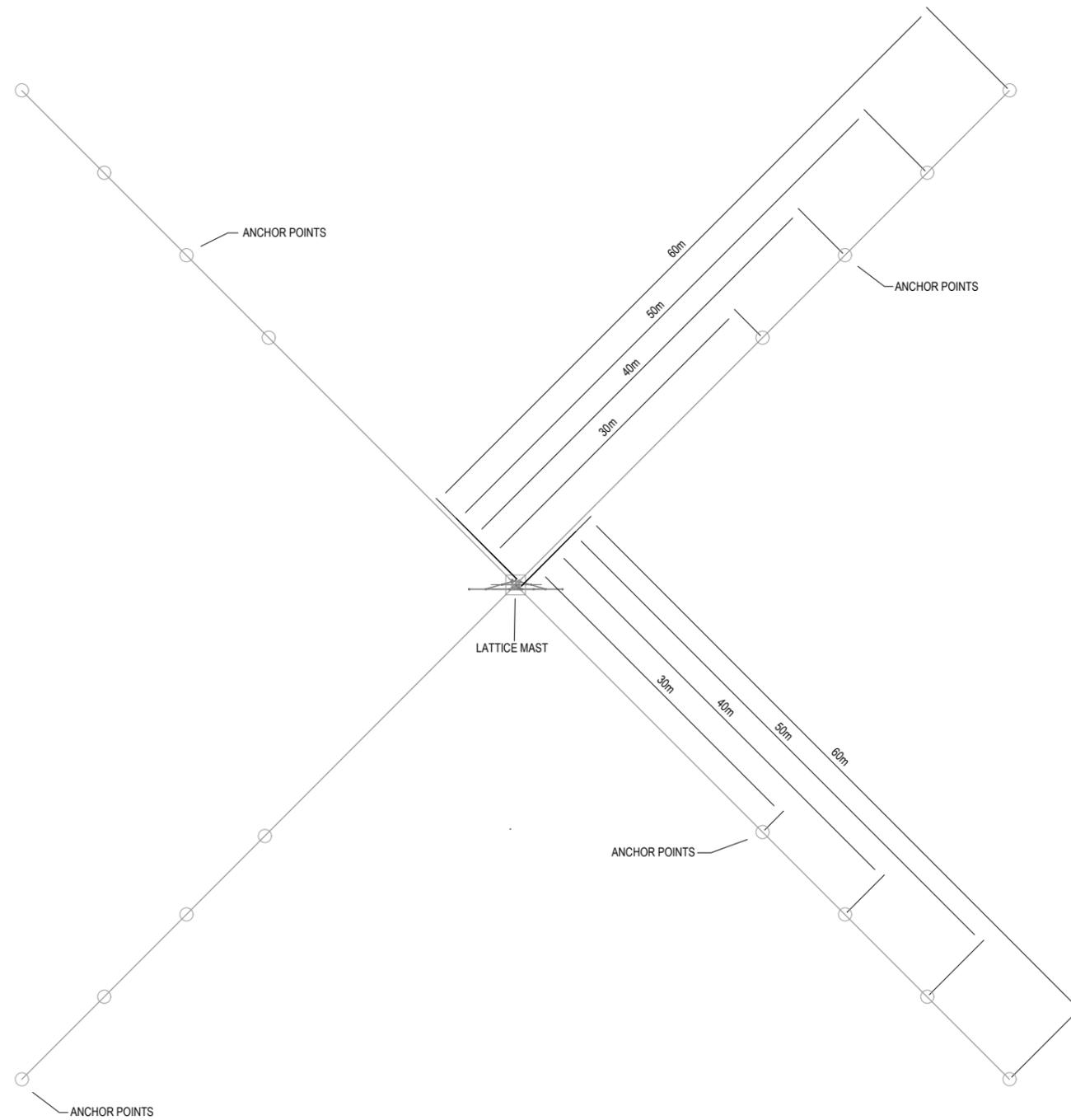
UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE TEMPORARY CONSTRUCTION  
COMPOUND - SOUTH

**FIGURE 3.10b**

Scale  
AS SHOWN @ A3

Date  
AUGUST 2023

64341.00001.Fig-3.11a.1\_Met\_Mast\_Plan.dwg



LEGEND

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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE MET MAST - PLAN

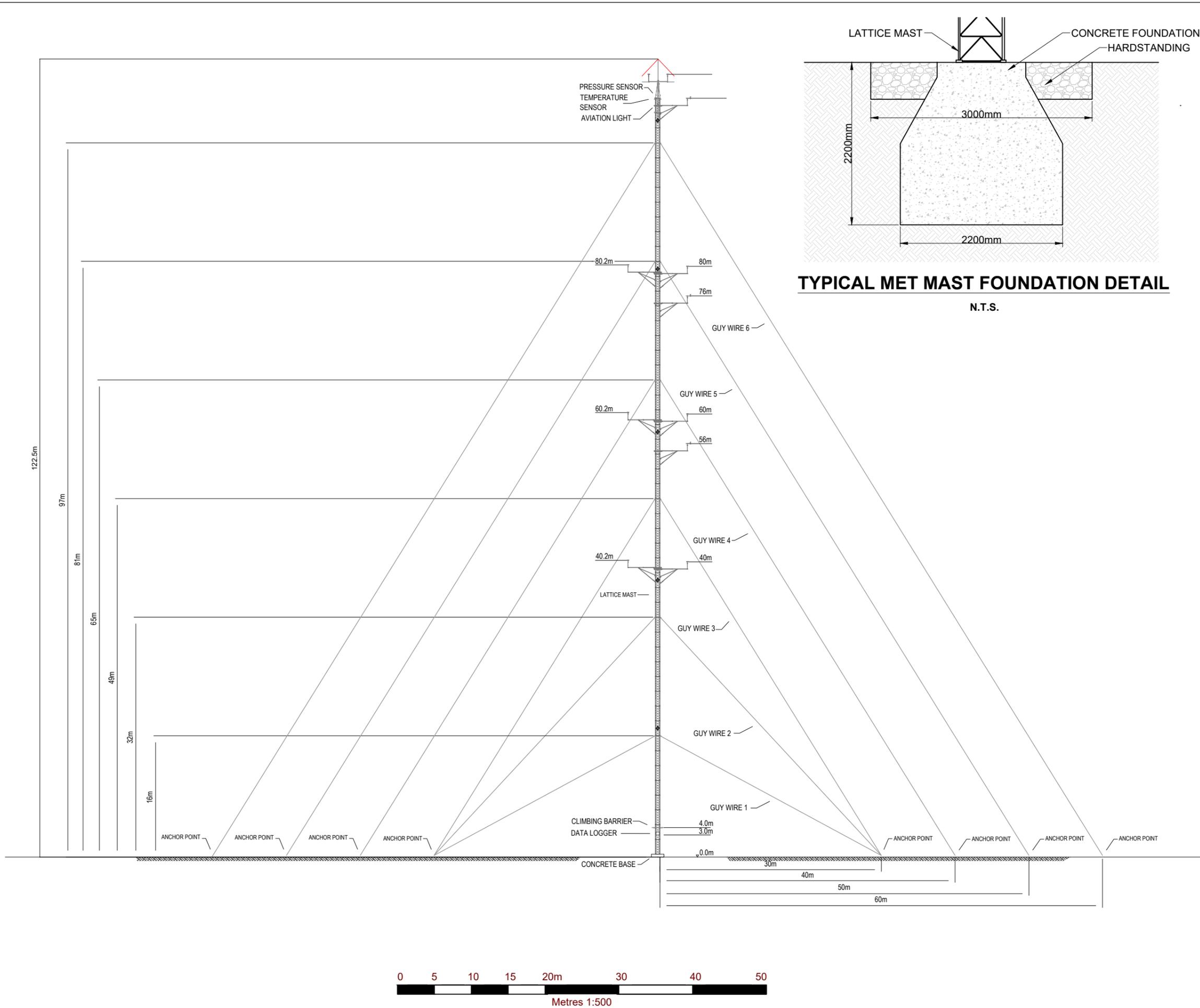
**FIGURE 3.11a**



Scale 1:500 @ A3

Date AUGUST 2023

64341.00001.Fig-3.11b.1\_Met\_Mast\_Elevation.dwg



LEGEND

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UISENIS WIND FARM - EIA  
DESCRIPTION OF DEVELOPMENT  
INDICATIVE MET MAST - ELEVATION

**FIGURE 3.11b**

Scale 1:500 @ A3

Date AUGUST 2023



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



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**LVIA**

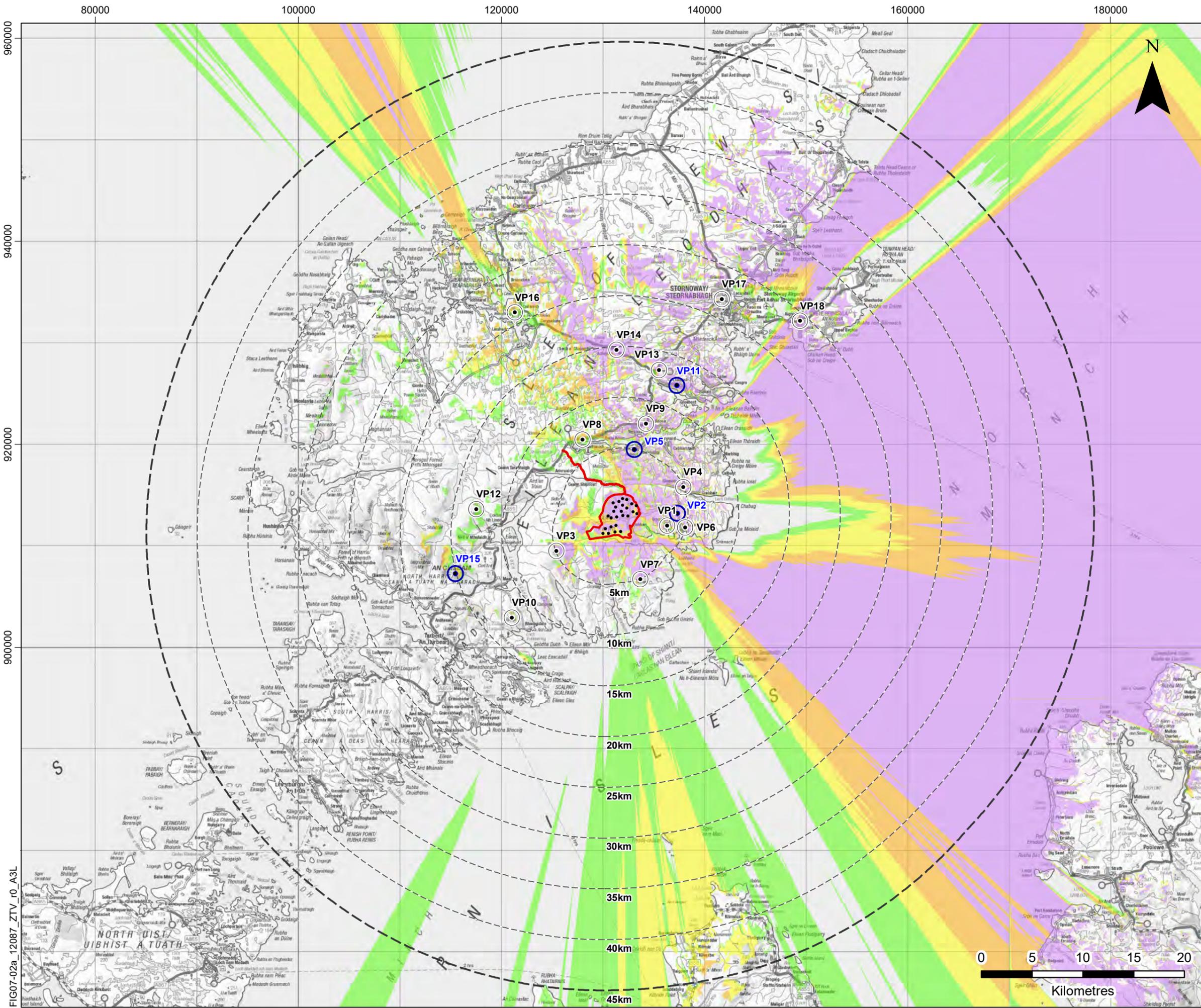
**FIGURE 7.1**

**LVIA STUDY AREA**

Scale: 1:350,000 @ A3      Date: AUGUST 2023



FIG07-01\_12087\_LVIAStudyArea\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- Viewpoint

- |   |                              |
|---|------------------------------|
| 1: Orasaigh (Orinsay)                   | 10: Todun                    |
| 2: B8060, east of the Site              | 11: Liurbost                 |
| 3: Beinn Mhor                           | 12: Liuthaid                 |
| 4: Taobh a' Ghlinne (Glenside)          | 13: A859 near Liurbost       |
| 5: B8060 near Tabost (Habost) Church    | 14: Acha Mor (Achamore)      |
| 6: Leumrabhagh                          | 15: An                       |
| 7: Uisinis                              | 16: Calanais Standing Stones |
| 8: Baile                                | 17: Stornoway War Memorial   |
| 9: A859 near Lacasaigh (Laxay) Cemetery | 18: An-Cnoc (Knock)          |

**Theoretical blade tip visibility (180/200m)**

- 1-6 turbines visible
- 7-12 turbines visible
- 13-18 turbines visible
- 19-25 turbines visible

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



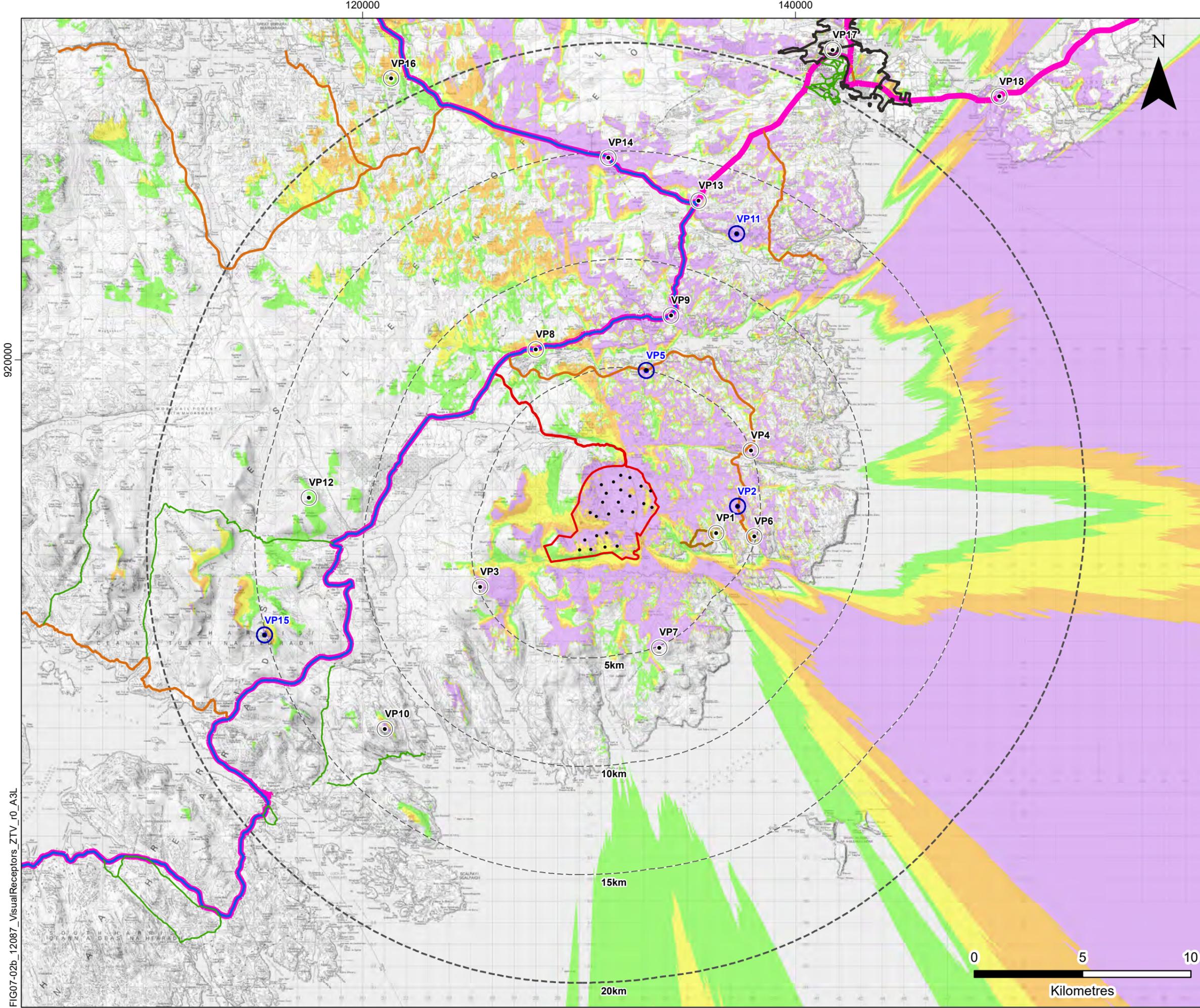
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**UISENIS WIND FARM**  
 LVIA  
**BLADE TIP HEIGHT (180-200M) ZTV AND VIEWPOINT LOCATIONS**

**FIGURE 7.2a**  
 Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-02a\_12087\_ZTV\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 20km LVIA study area
- 5km intervals from turbines
- Stornoway
- A Road
- B Road
- Paicr Trust Stornoway walk route
- The Hebridean Way NR 780
- Core Path
- Viewpoint

<ul style="list-style-type: none"> <li>1: Orasigh (Orinsay)</li> <li>2: B8060, east of the Site</li> <li>3: Beinn Mhor</li> <li>4: Taobh a' Ghlinne (Glenside)</li> <li>5: B8060 near Tabost (Habost) Church</li> <li>6: Leumrabhagh</li> <li>7: Uisinis</li> <li>8: Baile</li> <li>9: A859 near Lacasaigh (Laxay) Cemetery</li> <li>10: Todun</li> </ul>	<ul style="list-style-type: none"> <li>11: Liurbost</li> <li>12: Liuthaid</li> <li>13: A859 near (Achamore)</li> <li>14: Acha Mor (Achamore)</li> <li>15: An</li> <li>16: Calanais Standing Stones</li> <li>17: Stornoway War Memorial</li> <li>18: An-Cnoc</li> </ul>
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**Theoretical blade tip visibility (180/200m)**

- 1-6 turbines
- 7-12 turbines
- 13-18 turbines
- 19-25 turbines

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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**UISENIS WIND FARM**

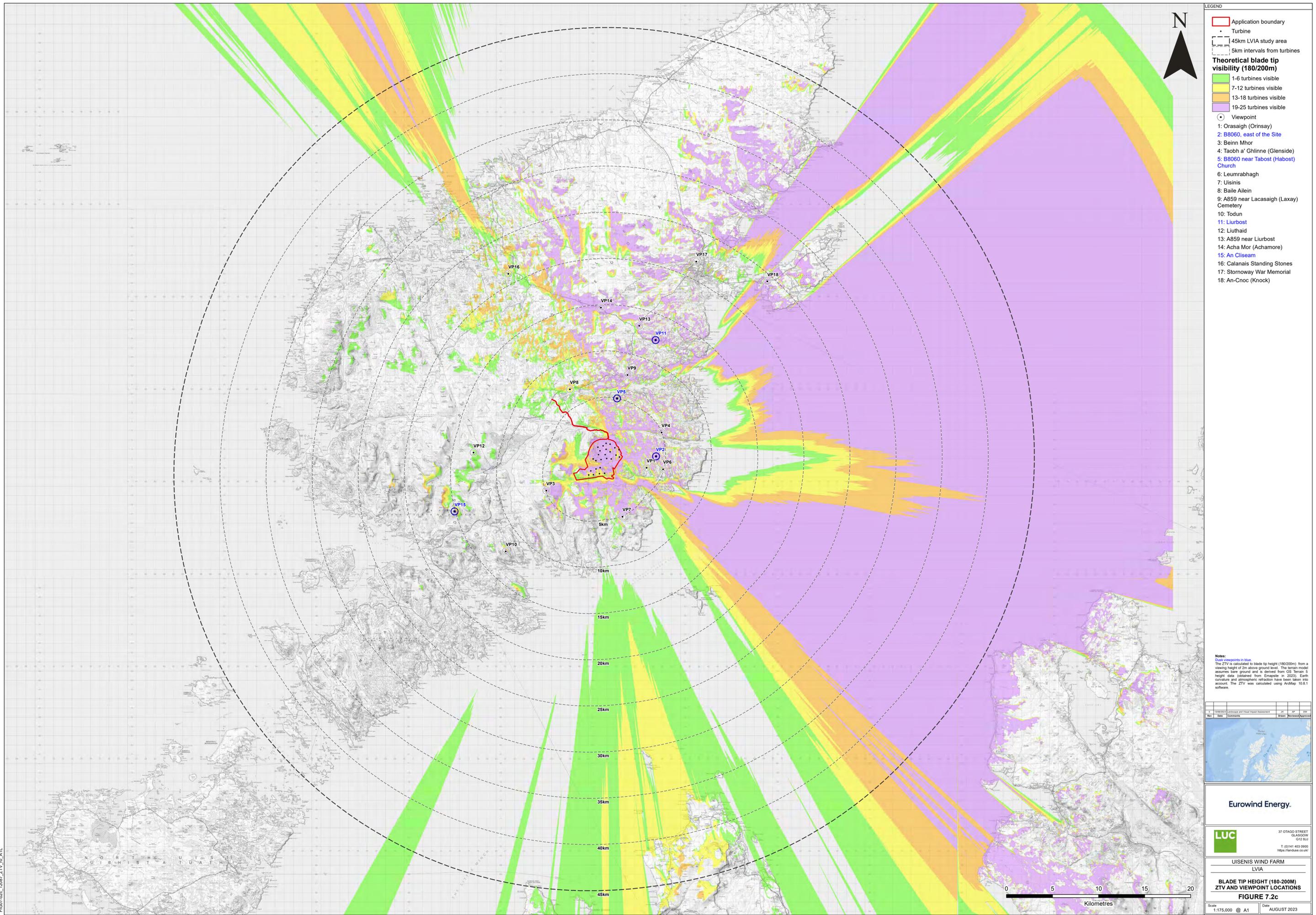
**LVIA**

**BLADE TIP HEIGHT (180-200M) ZTV AND VISUAL RECEPTORS**

**FIGURE 7.2b**

Scale 1:165,000 @ A3	Date AUGUST 2023
----------------------	------------------

FIG07-02b\_VisualReceptors\_ZTV\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines

**Theoretical blade tip visibility (180/200m)**

- 1-6 turbines visible
- 7-12 turbines visible
- 13-18 turbines visible
- 19-25 turbines visible

**Viewpoint**

- 1: Orasaigh (Orinsay)
- 2: B8060, east of the Site
- 3: Beinn Mhor
- 4: Taobh a' Ghlinne (Glenside)
- 5: B8060 near Tabost (Habost) Church
- 6: Leumrabhagh
- 7: Uisinis
- 8: Baile Allein
- 9: A859 near Lacasaigh (Laxay) Cemetery
- 10: Todun
- 11: Liurbost
- 12: Liuthaid
- 13: A859 near Liurbost
- 14: Acha Mor (Achamore)
- 15: An Cliseam
- 16: Calanais Standing Stones
- 17: Stornoway War Memorial
- 18: An-Cnoc (Knock)

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to blade tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emagis in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	By	SP	DR
1	10/08/2023	Author and Visual Impact Assessment	JH	SP	DR

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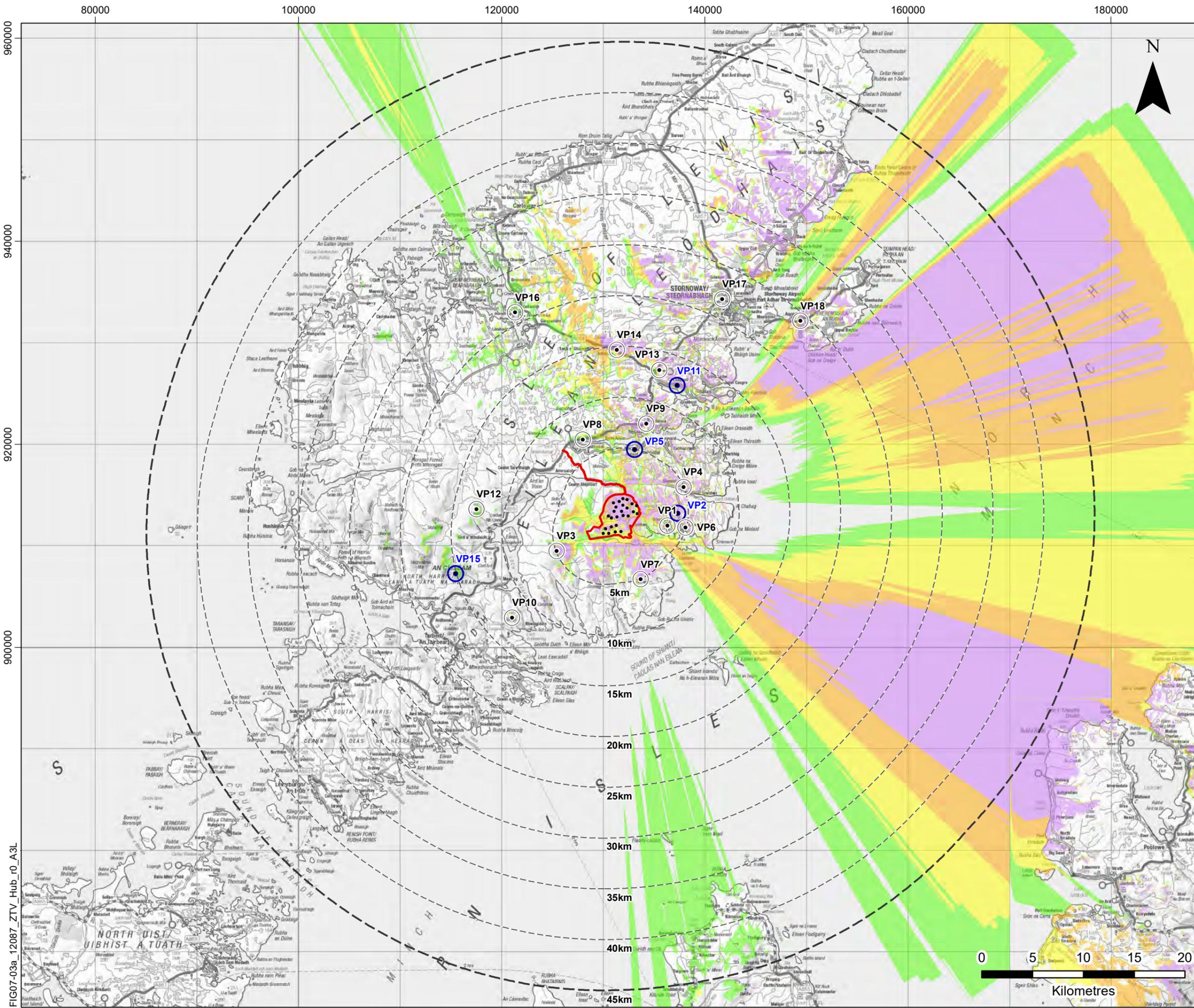
**UISENIS WIND FARM  
 LVIA**

**BLADE TIP HEIGHT (180-200M)  
 ZTV AND VIEWPOINT LOCATIONS**

**FIGURE 7.2c**

Scale: 1:175,000 @ A1 Date: AUGUST 2023

FIG07-02c\_12087\_ZTV\_01\_A1L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- Viewpoint

1: Orasaigh (Orinsay)	11: Liurbost
2: B8060, east of the Site	12: Liuthaid
3: Beinn Mhor	13: A859 near
4: Taobh a' Ghlinne (Glenside)	14: Acha Mor (Achamore)
5: B8060 near Tabost (Habost) Church	15: An Cliseam
6: Leumrabhagh	16: Calanais Standing Stones
7: Uisinis	17: Stornoway War Memorial
8: Baile Ailein	18: An-Cnoc (Knock)
9: A859 near Lacasaigh (Laxay) Cemetery	
10: Todun	

**Theoretical turbine hub visibility (102.5/122.5m)**

- 1-6 turbines visible
- 7-12 turbines visible
- 13-18 turbines visible
- 19-25 turbines visible

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine hub height (102.5/122.5m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



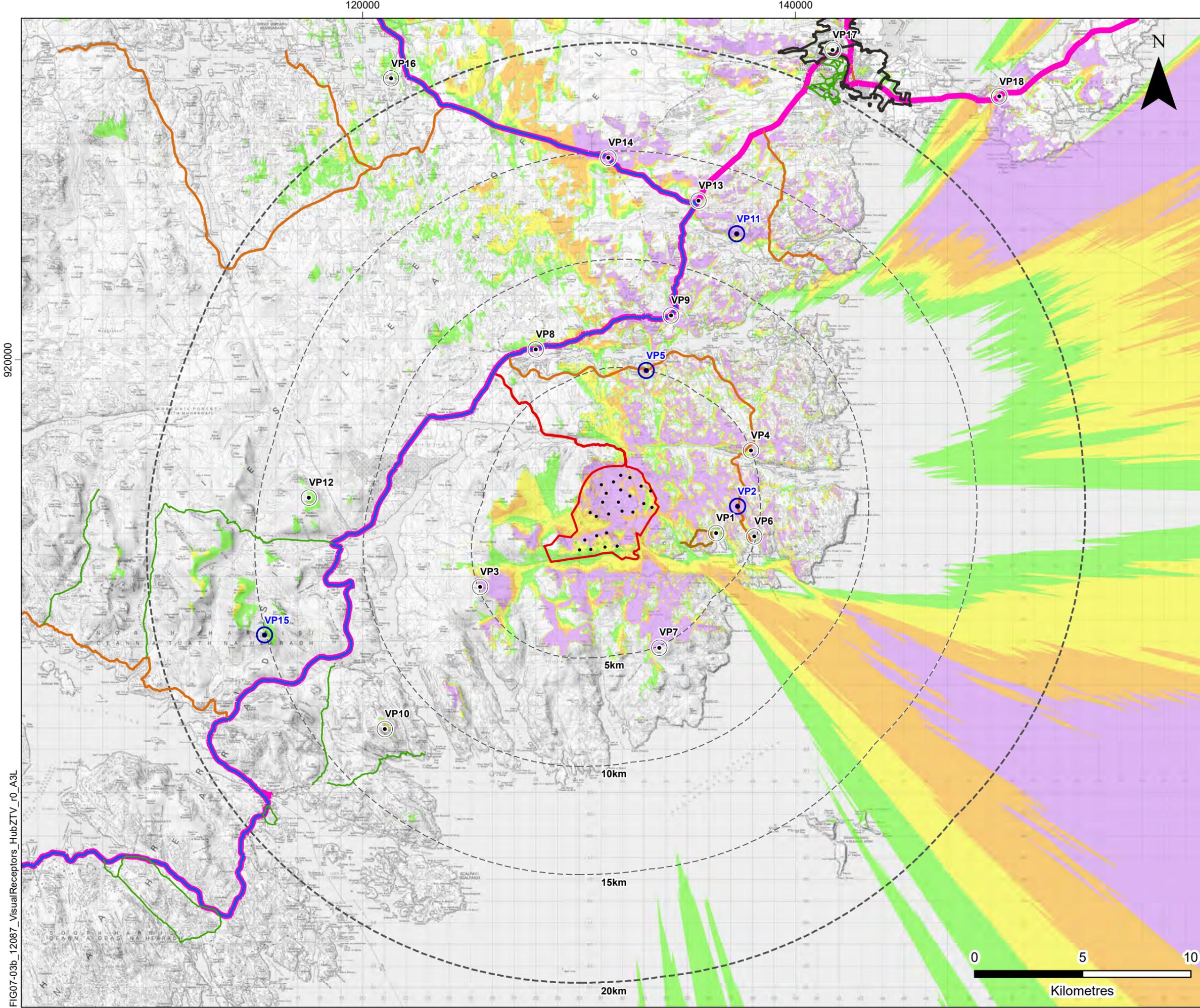
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**UISENIS WIND FARM**  
 LVIA  
**HUB HEIGHT (102.5-122.5M) ZTV  
 AND VIEWPOINT LOCATIONS**

**FIGURE 7.3a**

Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-03a\_12087\_ZTV\_Hub\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 20km LVIA study area
- 5km intervals from turbines
- Stornoway
- A Road
- B Road
- Pairc Trust Stiomrabhaigh walk route
- The Hebridean Way NR 780
- Core Path
- Viewpoint

1: Orasaigh (Orinsay)	10: Todun
2: B8060, east of the Site	11: Liurbost
3: Beinn Mhor	12: Liuthaid
4: Taobh a' Ghlinne (Glenside)	13: A859 near
5: B8060 near Tabost (Habost) Church	14: Acha Mor (Achamore)
6: Leunrabhagh	15: An
7: Uisinis	16: Calanais Standing Stones
8: Baile	17: Stornoway War Memorial
9: A859 near Lacasaigh (Laxay) Cemetery	18: An-Cnoc

**Theoretical turbine hub visibility (102.5/122.5m)**

- 1-6 turbines visible
- 7-12 turbines visible
- 13-18 turbines visible
- 19-25 turbines visible

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine hub height (102.5/122.5m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



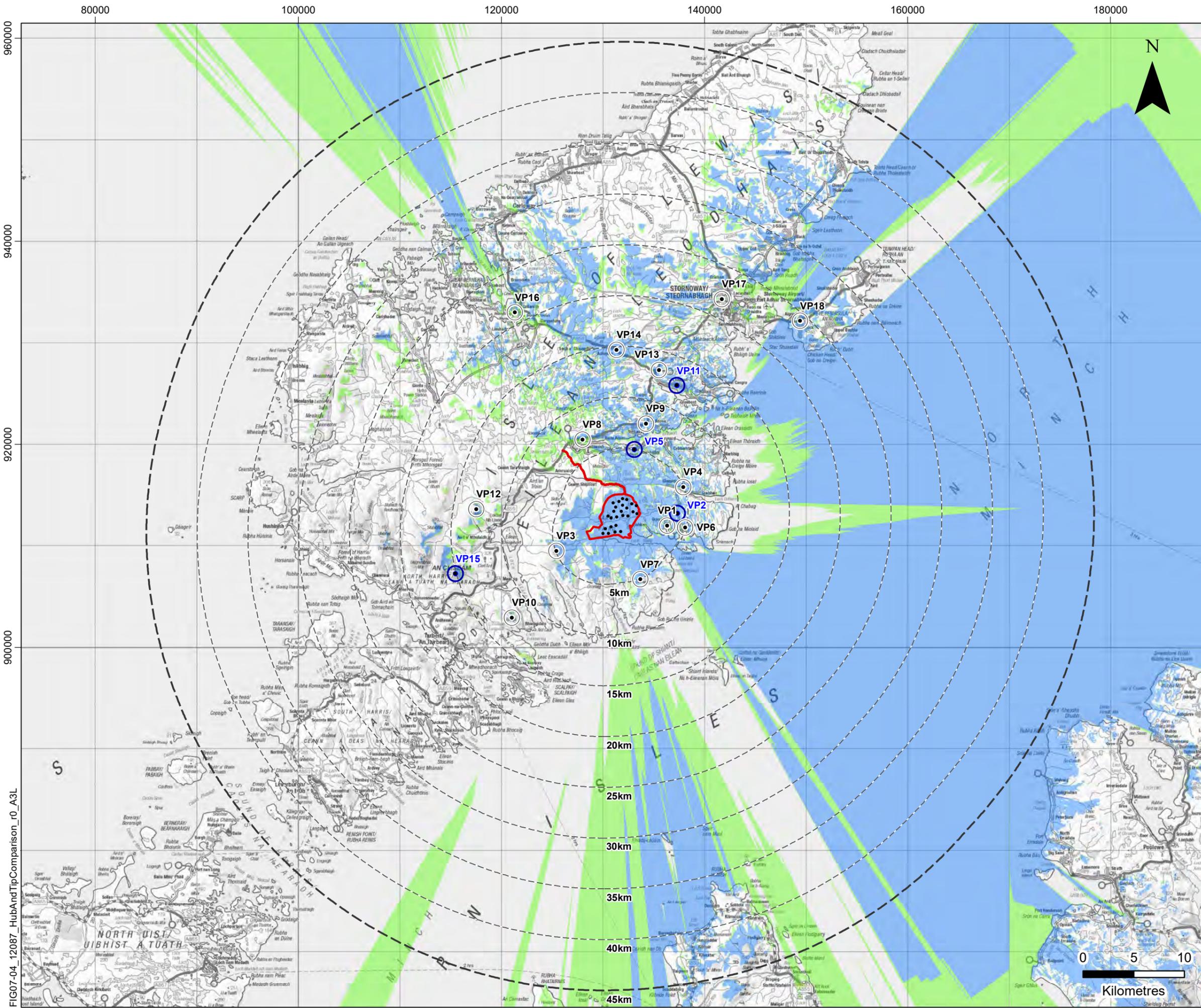
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**UISENIS WIND FARM**  
 LVIA  
**HUB HEIGHT (102.5-122.5M)**  
**ZTV AND VISUAL RECEPTORS**  
**FIGURE 7.3b**

Scale: 1:165,000 @ A3      Date: AUGUST 2023

FIG07-03b\_12087\_VisualReceptors\_HubZTV\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- Turbine tip visible
- Turbine tip and hub visible
- Viewpoint

1: Orasigh (Orinsay)	10: Todun
2: B8060, east of the Site	11: Liurbost
3: Beinn Mhor	12: Liuthaid
4: Taobh a' Ghlinne (Glenside)	13: A859 near Liurbost (Achamore)
5: B8060 near Tabost (Habost) Church	15: An Cliseam
6: Leumrabhagh	16: Calanais Standing Stones
7: Uisinis	17: Stornoway War Memorial
8: Baile Ailein	18: An-Cnoc (Knock) (Laxay) Cemetery

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height (180/200m) and turbine hub height (102.5/122.5m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1

Rev	Date	Comments	Drawn	Reviewed	Approved
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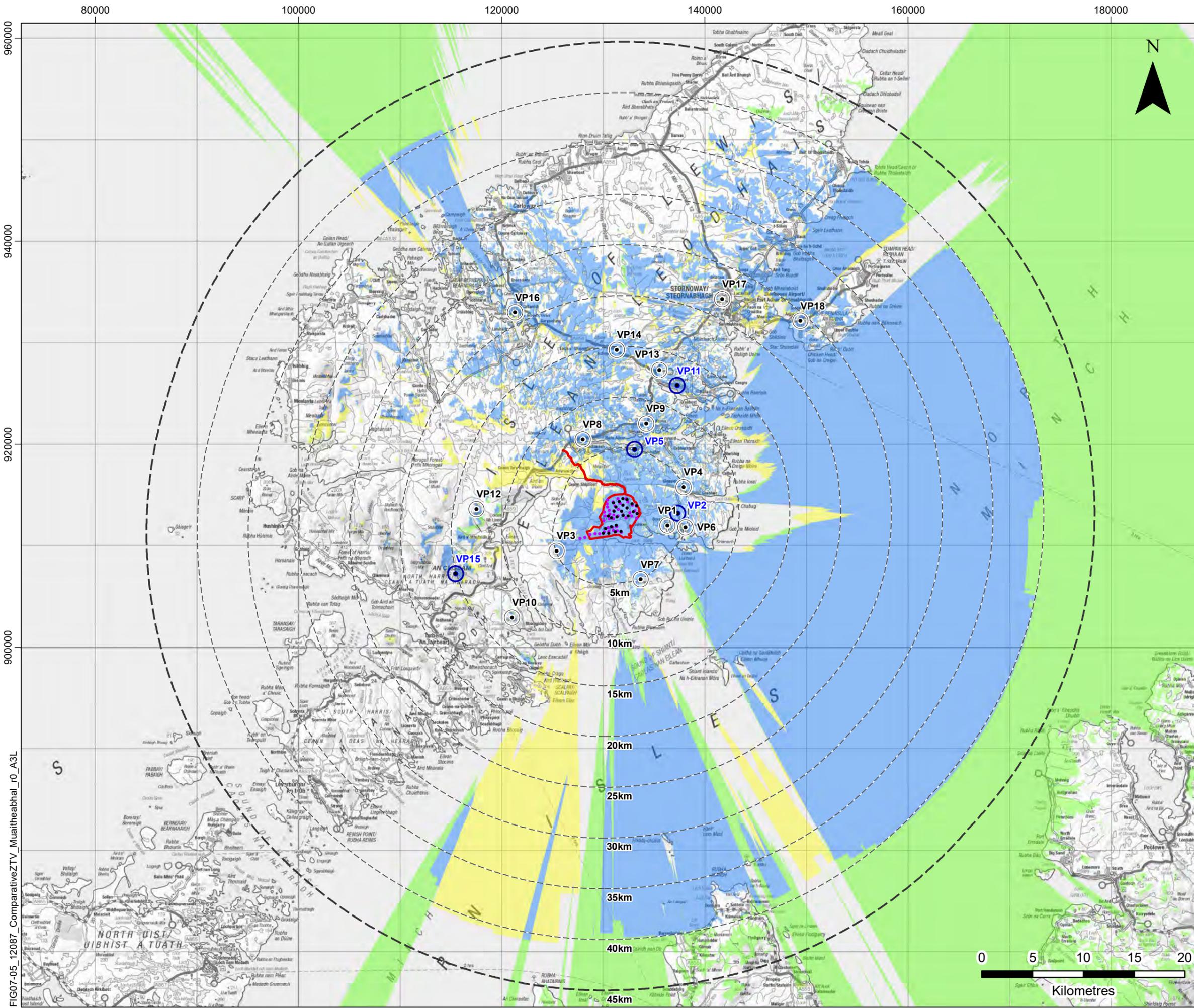


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**UISENIS WIND FARM**  
 LVIA  
**BLADE TIP HEIGHT (180-200M) AND HUB HEIGHT (102.5-122.5M) COMPARATIVE ZTV AND VIEWPOINT LOCATIONS**  
**FIGURE 7.4**

Scale: 1:350,000 @ A3 Date: AUGUST 2023

FIG07-04\_12087\_HubAndTipComparison\_r0\_A3L



- LEGEND**
- Application boundary
  - Turbine
  - Consented Muaitheabhal turbine
  - 45km LVIA study area
  - 5km intervals from turbines
  - Viewpoint
- |   |                              |
|---|------------------------------|
| 1: Orasaigh (Orinsay)                   | 10: Todun                    |
| 2: B8060, east of the Site              | 11: Liurbost                 |
| 3: Beinn Mhor                           | 12: Liuthaid                 |
| 4: Taobh a' Ghlinne (Glenside)          | 13: A859 near Liurbost       |
| 5: B8060 near Tabost (Habost) Church    | 14: Acha Mor (Achamore)      |
| 6: Leumrabhagh                          | 15: An Cliseam               |
| 7: Uisinis                              | 16: Calanais Standing Stones |
| 8: Baile Ailein                         | 17: Stornoway War Memorial   |
| 9: A859 near Lacasaigh (Laxay) Cemetery | 18: An-Cnoc (Knock)          |

- Only Muaitheabhal visible
- Only Uisenis visible
- Both schemes visible

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



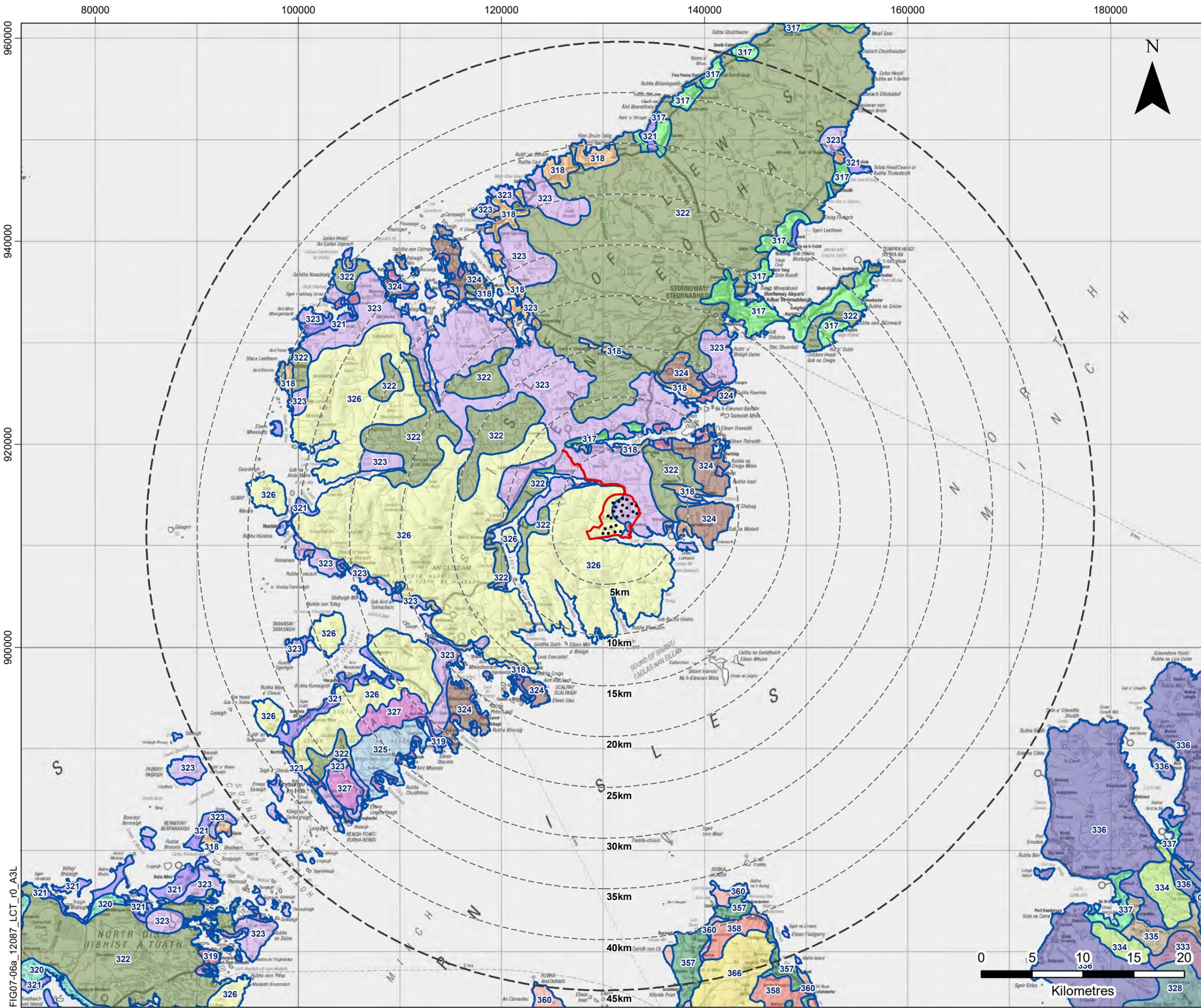
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**UISENIS WIND FARM**  
 LVIA  
 COMPARATIVE BLADE TIP HEIGHT ZTV –  
 CONSENTED MUAITHEABHAL  
 (130M – 150M) AND UISENIS (180-200M)

**FIGURE 7.5**

Scale: 1:350,000 @ A3      Date: AUGUST 2023

FIG07-05\_12087\_ComparativeZTV\_Muaitheabhal\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines

**Landscape Character Type**

- 0: Water
- 317: Gently Sloping Crofting
- 318: Linear Crofting
- 319: Dispersed Crofting
- 320: Low-lying Crofting
- 321: Machair
- 322: Boggy Moorland - Outer Hebrides
- 323: Rocky Moorland - Outer Hebrides
- 324: Cnoc and Lochan
- 325: Rock and Lochan
- 326: Prominent Hills and Mountains
- 327: Rounded Rocky Hills - Outer Hebrides
- 328: Rugged Mountain Massif - Ross & Cromarty
- 333: Rocky Moorland and Rugged Hills
- 334: Cnocan - Ross & Cromarty
- 335: Wooded Glens and Rocky Moorland
- 336: Coastal Moorlands and Crofts
- 337: Wooded and Settled Rocky Coasts
- 357: Farmed and Settled Lowlands - Skye & Lochalsh
- 358: Low Smooth Moorland
- 360: Stepped Moorland
- 366: Landslide Edge and Undulating Ridge

Rev	Date	Comments	Drawn	Reviewed	Approved
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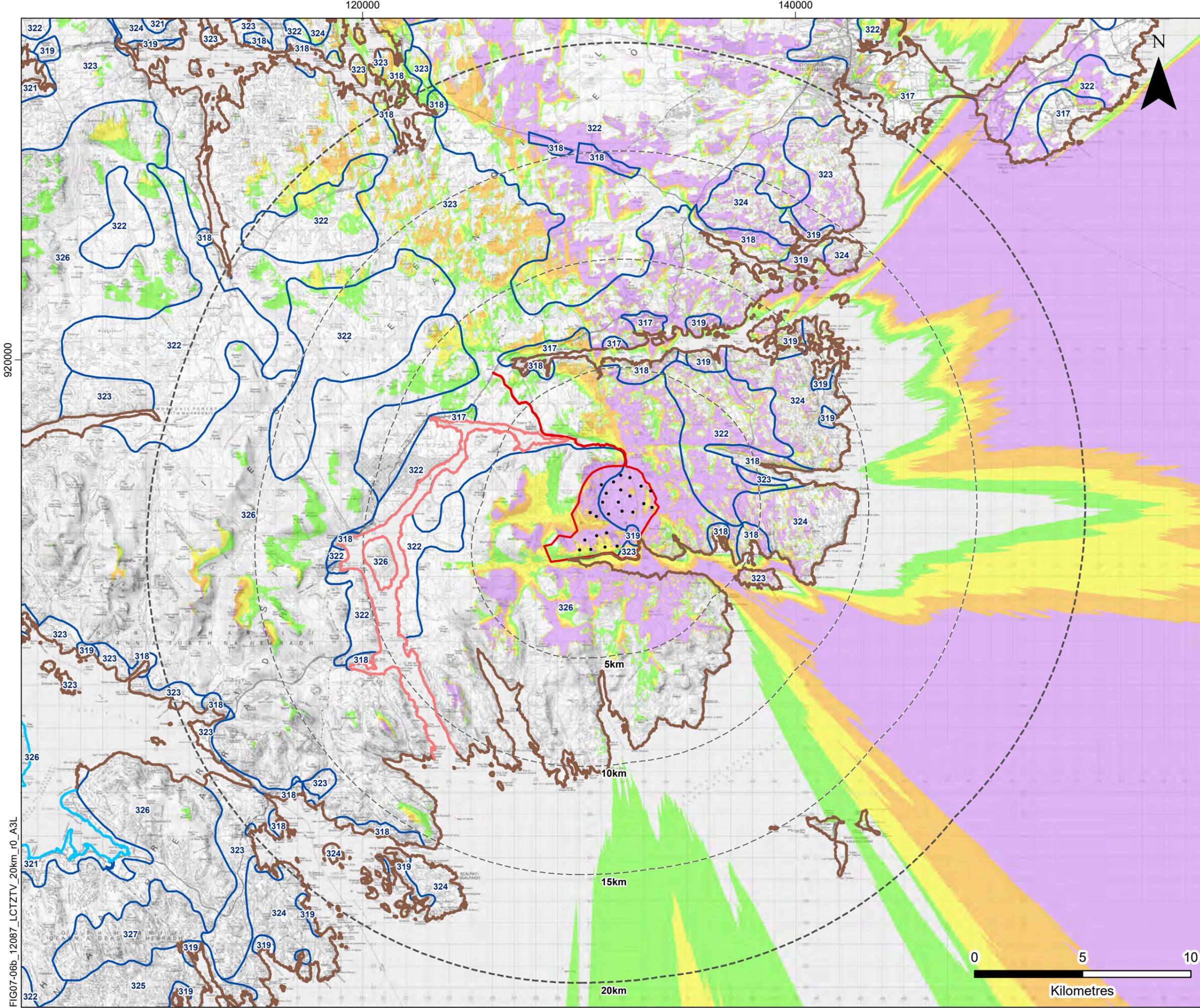
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**LANDSCAPE CHARACTER TYPES**

**FIGURE 7.6a**

Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-06a\_12087\_LCT\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 20km LVIA study area
- 5km intervals from turbines
- Landscape Character Type
  - 317: Gently Sloping Crofting
  - 318: Linear Crofting
  - 319: Dispersed Crofting
  - 321: Machair
  - 322: Boggy Moorland - Outer Hebrides
  - 323: Rocky Moorland - Outer Hebrides
  - 324: Cnoc and Lochan
  - 325: Rock and Lochan
  - 326: Prominent Hills and Mountains
  - 327: Rounded Rocky Hills - Outer Hebrides
- National Coastal Character Type (Indicative)**
  - Type 9: Sounds, Narrows and Islands
  - Type 12: Deposition Coasts of Islands
  - Type 13: Low Rocky Island Coasts
- Theoretical blade tip visibility (180/200m)**
  - 1-6 turbines visible
  - 7-12 turbines visible
  - 13-18 turbines visible
  - 19-25 turbines visible

**Notes:**  
 The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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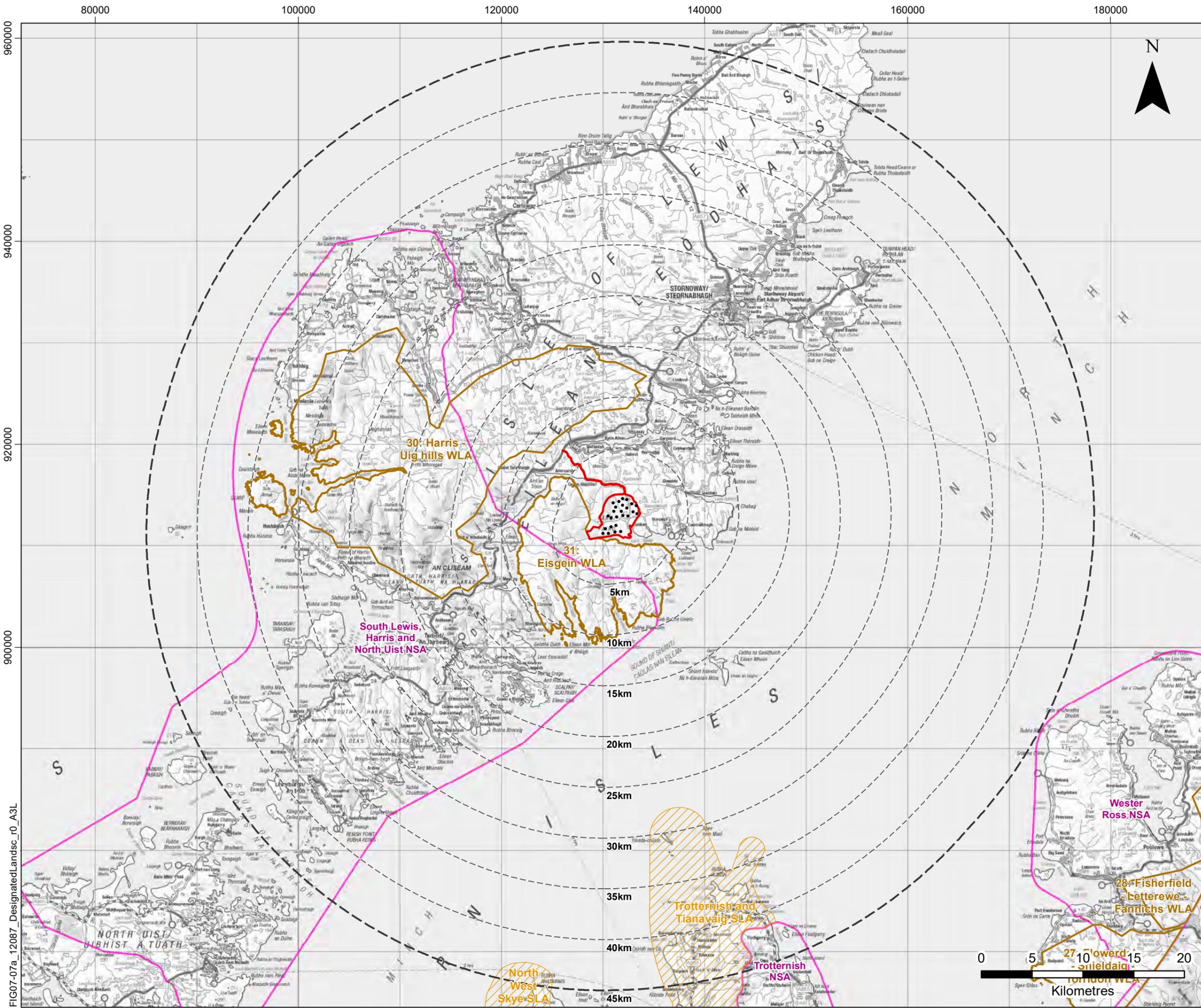
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**UISENIS WIND FARM**  
 LVIA  
**LANDSCAPE AND COASTAL CHARACTER TYPES WITH BLADE TIP HEIGHT (180-200M) ZTV**

**FIGURE 7.6b**  
 Scale 1:165,000 @ A3 Date AUGUST 2023

FIG07-06b\_12087\_LCTZTV\_20km\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- National Scenic Area (NSA)
- Wild Land Area (WLA)
- Special Landscape Area (SLA)

Rev	Date	Comments	Drawn	Reviewed	Approved
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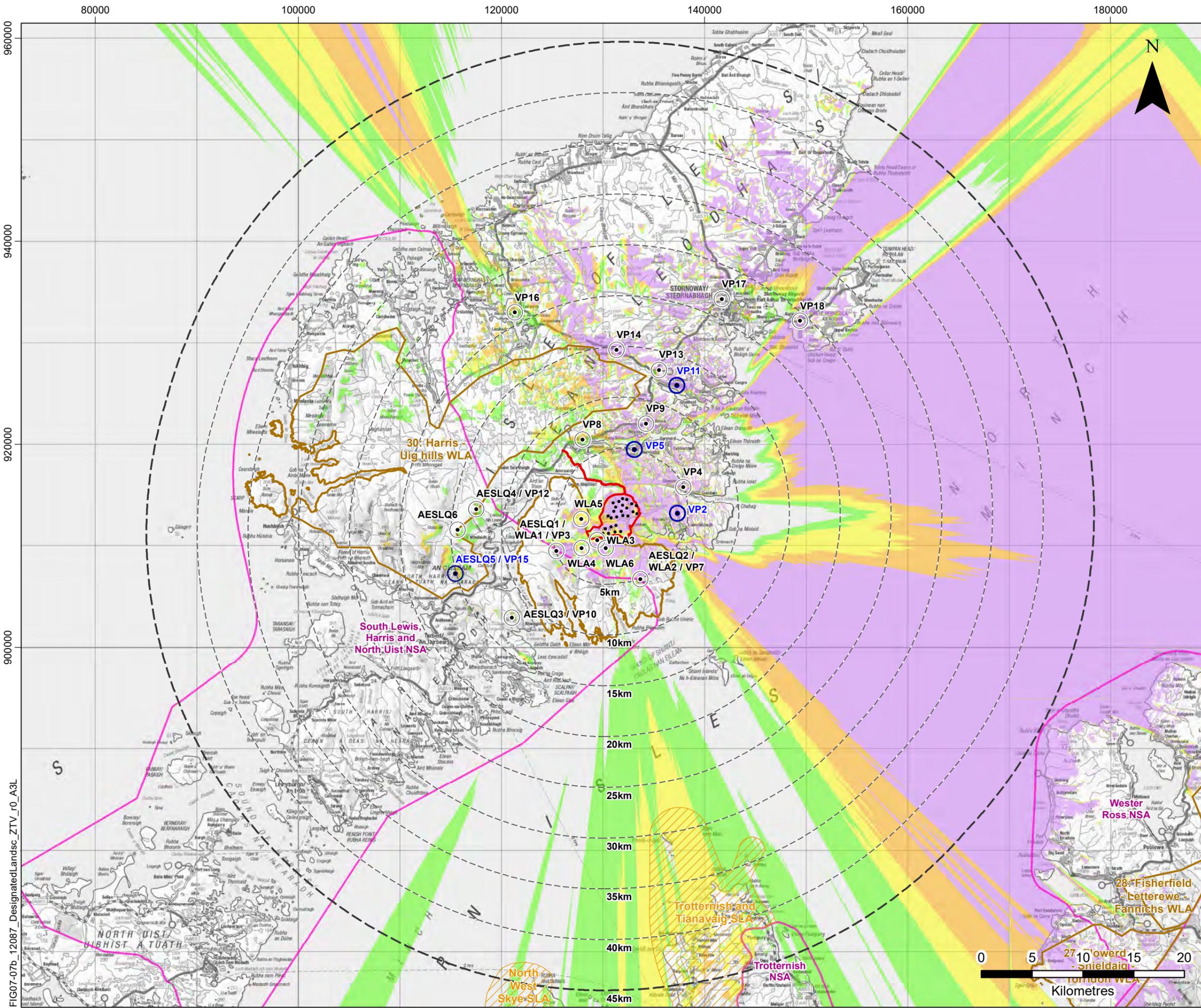
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**DESIGNATED LANDSCAPES & WILD LAND AREAS**

**FIGURE 7.7a**

Scale: 1:350,000 @ A3      Date: AUGUST 2023

FIG07-07a\_12087\_DesignatedLandsc\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- National Scenic Area (NSA)
- Wild Land Area (WLA)
- Special Landscape Area (SLA)
- Viewpoint

- |   |                                     |
|---|-------------------------------------|
| 1: Orasaigh (Orinsay)                   | 13: A859 near Liurbost              |
| 2: B8060, east of the Site              | 14: Acha Mor (Achamore)             |
| 3: Beinn Mhor (AELSQ1 / WLA1)           | 15: An Cliseam (AELSQ 5)            |
| 4: Taobh a' Ghlinne (Glenside)          | 16: Calanais Standing Stones        |
| 5: B8060 near Tabost (Habost) Church    | 17: Stornoway War Memorial          |
| 6: Leumrabhagh                          | 18: An-Cnoc (Knock)                 |
| 7: Uisinis (AELSQ2 / WLA2)              | AELSQ6: Bealach na h-Uamha          |
| 8: Baile Ailein                         | WLA3: Track near head of Loch Sealg |
| 9: A859 near Lacasaigh (Laxay) Cemetery | WLA4: Track near Abhainn Chragoil   |
| 10: Todun (AELSQ3 / VP10)               | WLA5: Abhainn Gleann na h-Uamha     |
| 11: Liurbost                            | WLA6: Track near Tigh Shealg        |
| 12: Liuthaid (AELSQ 4)                  |                                     |

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW

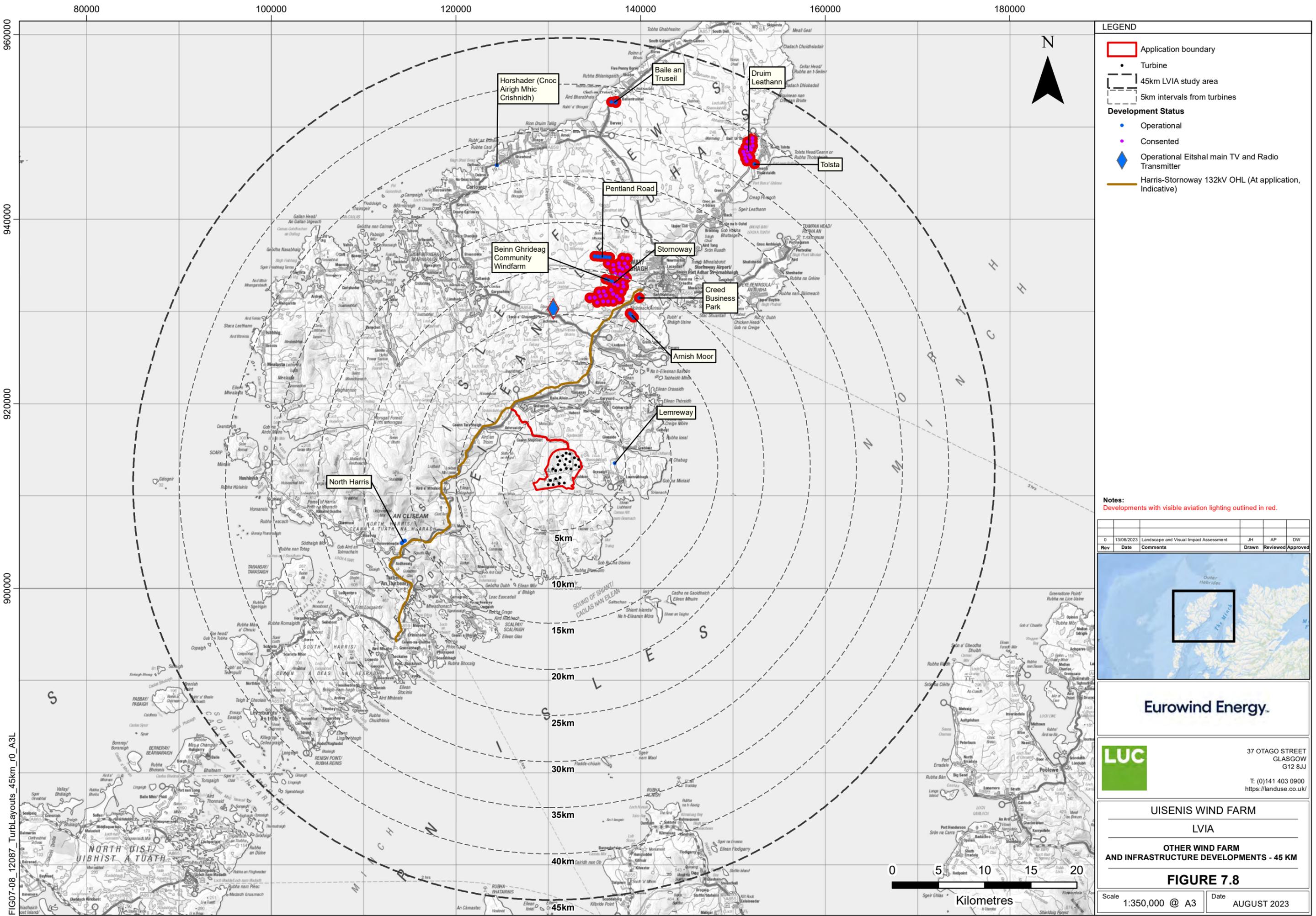


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**UISENIS WIND FARM**  
 LVIA  
**DESIGNATED LANDSCAPES & WILD LAND AREAS WITH BLADE TIP HEIGHT (180-200M) ZTV**

**FIGURE 7.7b**  
 Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-07b\_12087\_DesignatedLandsc\_ZTV\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines

**Development Status**

- Operational
- Consented
- ♦ Operational Eitshal main TV and Radio Transmitter
- Harris-Stornoway 132kV OHL (At application, Indicative)

**Notes:**  
Developments with visible aviation lighting outlined in red.

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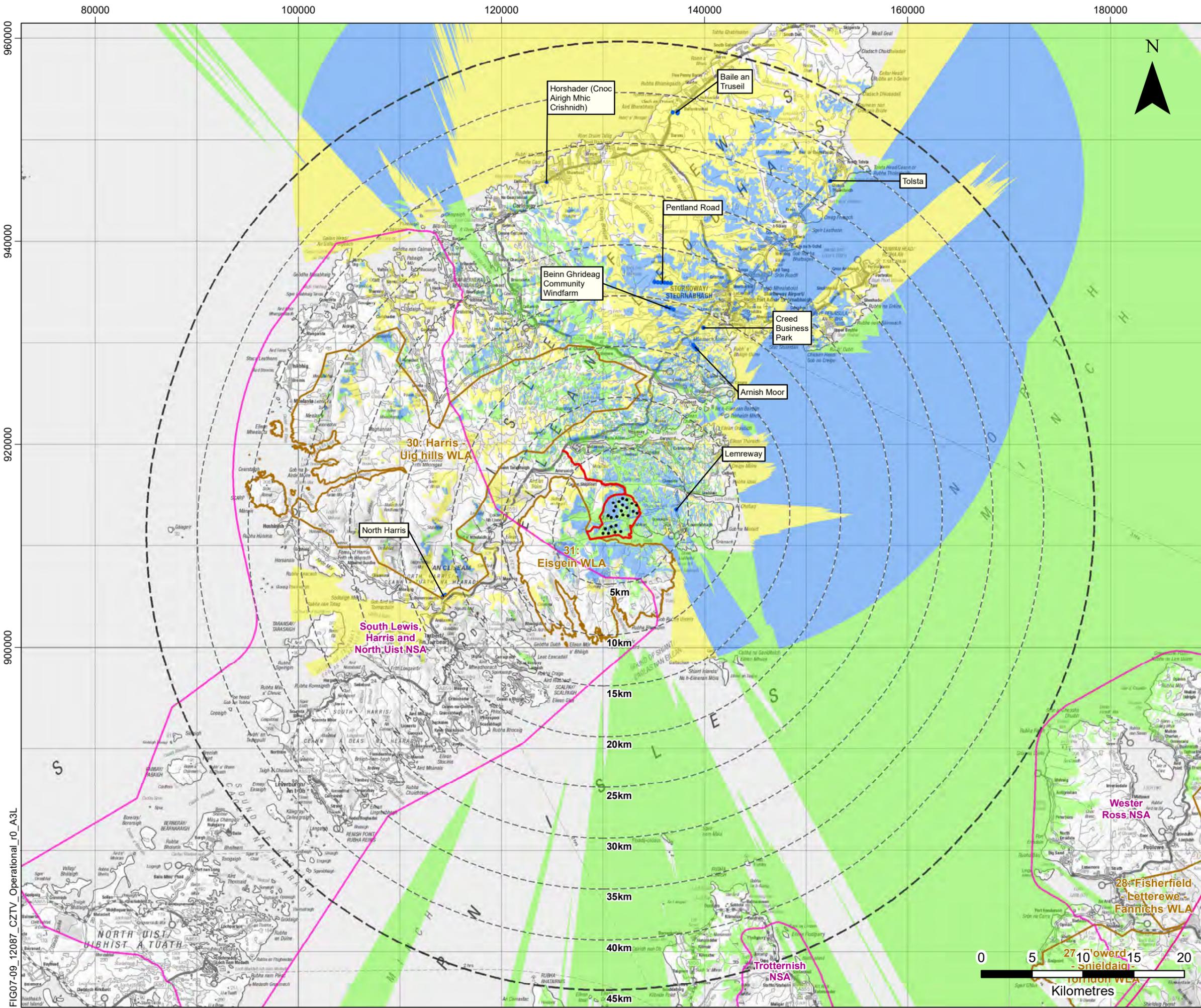
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**UISENIS WIND FARM**  
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**OTHER WIND FARM**  
**AND INFRASTRUCTURE DEVELOPMENTS - 45 KM**

**FIGURE 7.8**  
Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-08\_12087\_TurbLayouts\_45km\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- Wind Farm Status**
- Operational
- National Scenic Area (NSA)
- Wild Land Area (WLA)
- Only operational schemes visible
- Only Uisenis visible
- Operational Scheme(s) and Uisenis visible

**Notes:**  
 The ZTV is calculated to turbine tip height from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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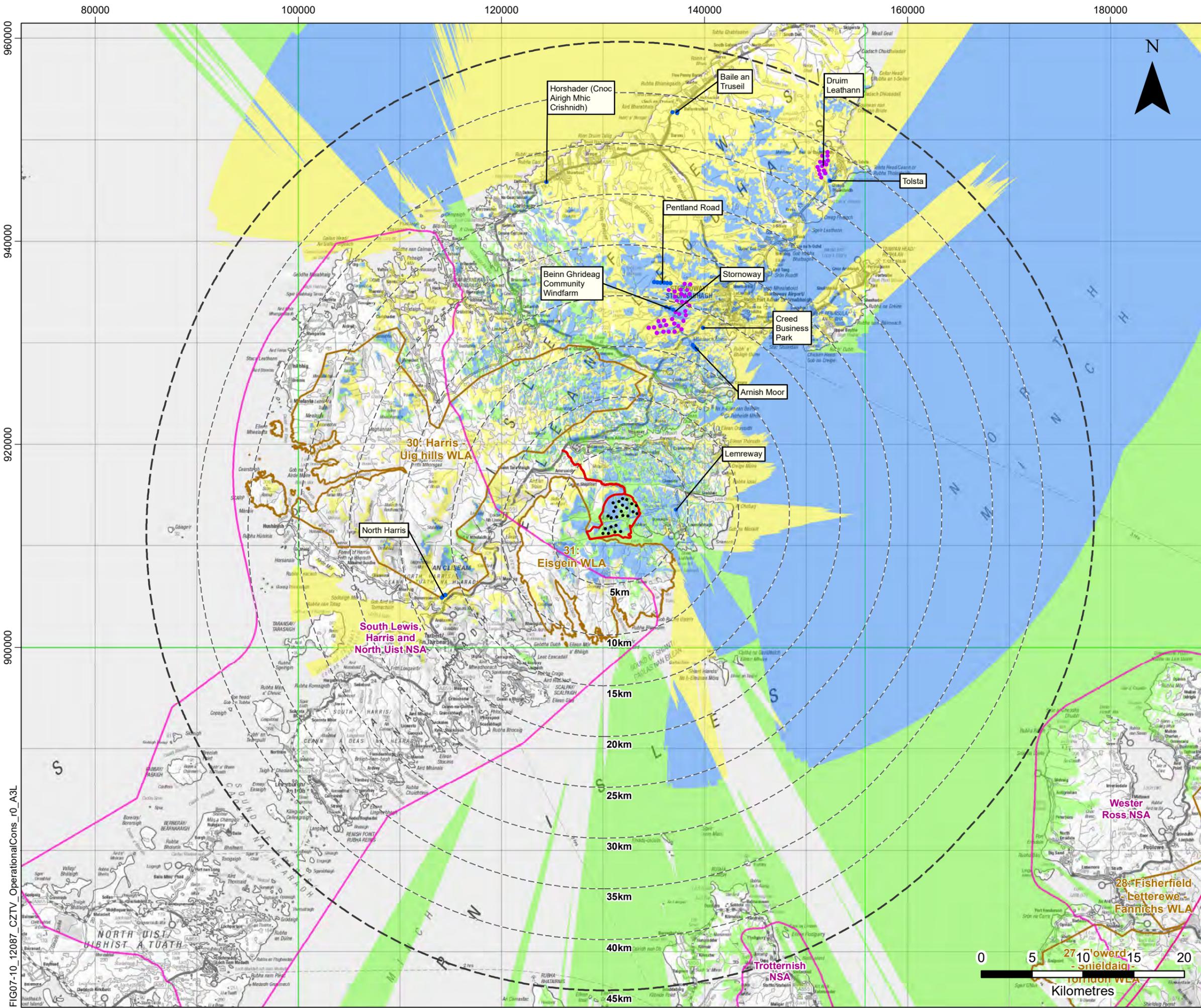
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**UISENIS WIND FARM**  
 LVIA  
**CUMULATIVE ZTV - OPERATIONAL WIND FARMS AND UISENIS**

**FIGURE 7.9**  
 Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-09\_12087\_CZTV\_Operational\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine
- 45km LVIA study area
- 5km intervals from turbines
- Wind Farm Status**
- Operational
- Consented
- Only operational and consented schemes visible
- Only Uisenis visible
- Operational and/or Consented Scheme(s) and Uisenis visible

**Notes:**  
 The ZTV is calculated to turbine tip height from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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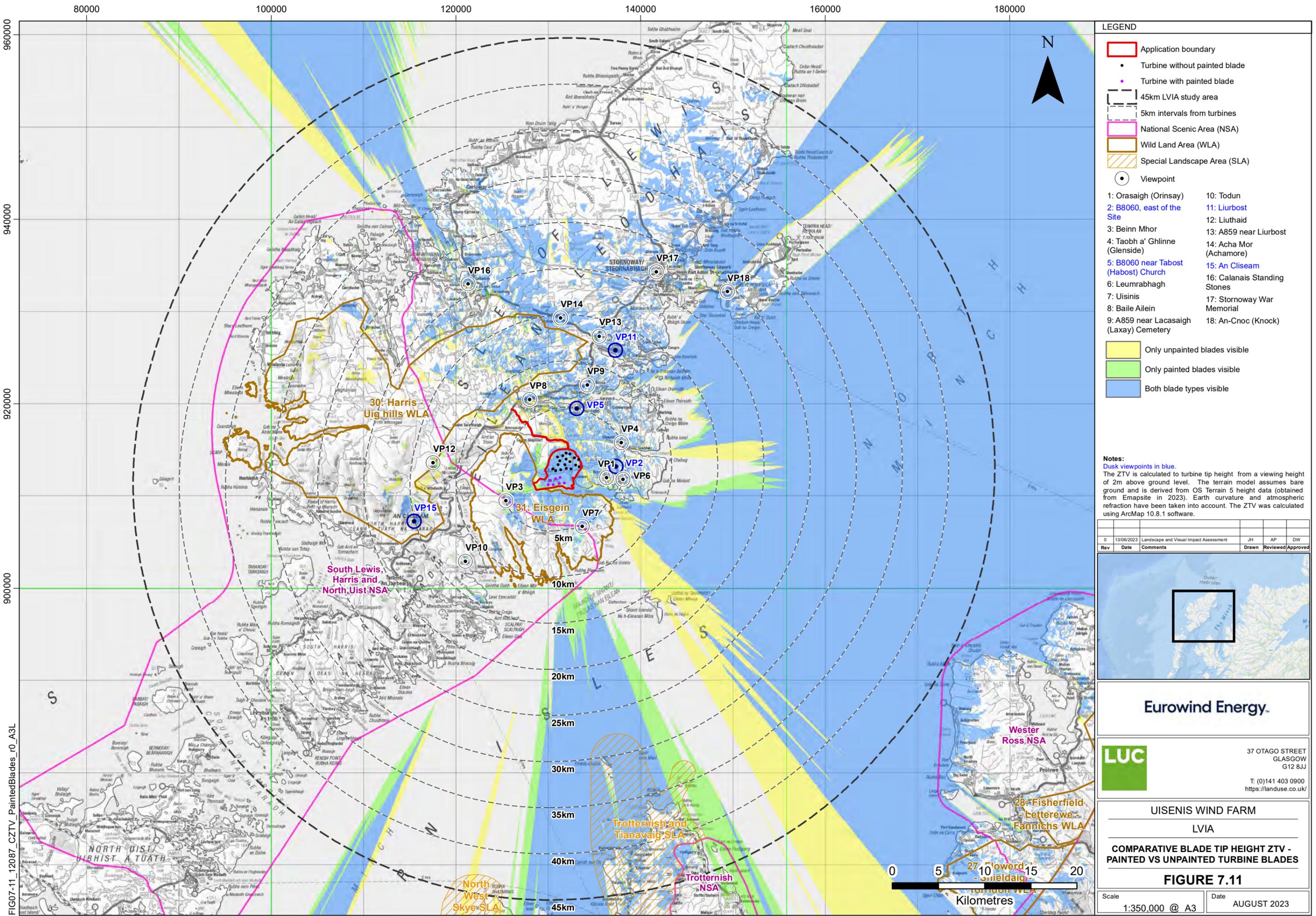
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**UISENIS WIND FARM**  
 LVIA  
**CUMULATIVE ZTV - OPERATIONAL AND CONSENTED WIND FARMS AND UISENIS**

**FIGURE 7.10**  
 Scale 1:350,000 @ A3 Date AUGUST 2023

FIG07-10\_12087\_CZTV\_OperationalCons\_r0\_A3L



**LEGEND**

- Application boundary
- Turbine without painted blade
- Turbine with painted blade
- 45km LVIA study area
- 5km intervals from turbines
- National Scenic Area (NSA)
- Wild Land Area (WLA)
- Special Landscape Area (SLA)
- Viewpoint

1: Orasaigh (Orinsay)	10: Todun
2: B8060, east of the Site	11: Liurbost
3: Beinn Mhor	12: Liuthaid
4: Taobh a' Ghlinne (Glenside)	13: A859 near Liurbost
5: B8060 near Tabost (Habost) Church	14: Acha Mor (Achamore)
6: Leumrabhagh	15: An Cliseam
7: Uisinis	16: Calanais Standing Stones
8: Baile Ailein	17: Stornoway War Memorial
9: A859 near Lacasaigh (Laxay) Cemetery	18: An-Cnoc (Knock)

- Only unpainted blades visible
- Only painted blades visible
- Both blade types visible

**Notes:**  
 Dusk viewpoints in blue.  
 The ZTV is calculated to turbine tip height from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsite in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	Drawn	Reviewed	Approved
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



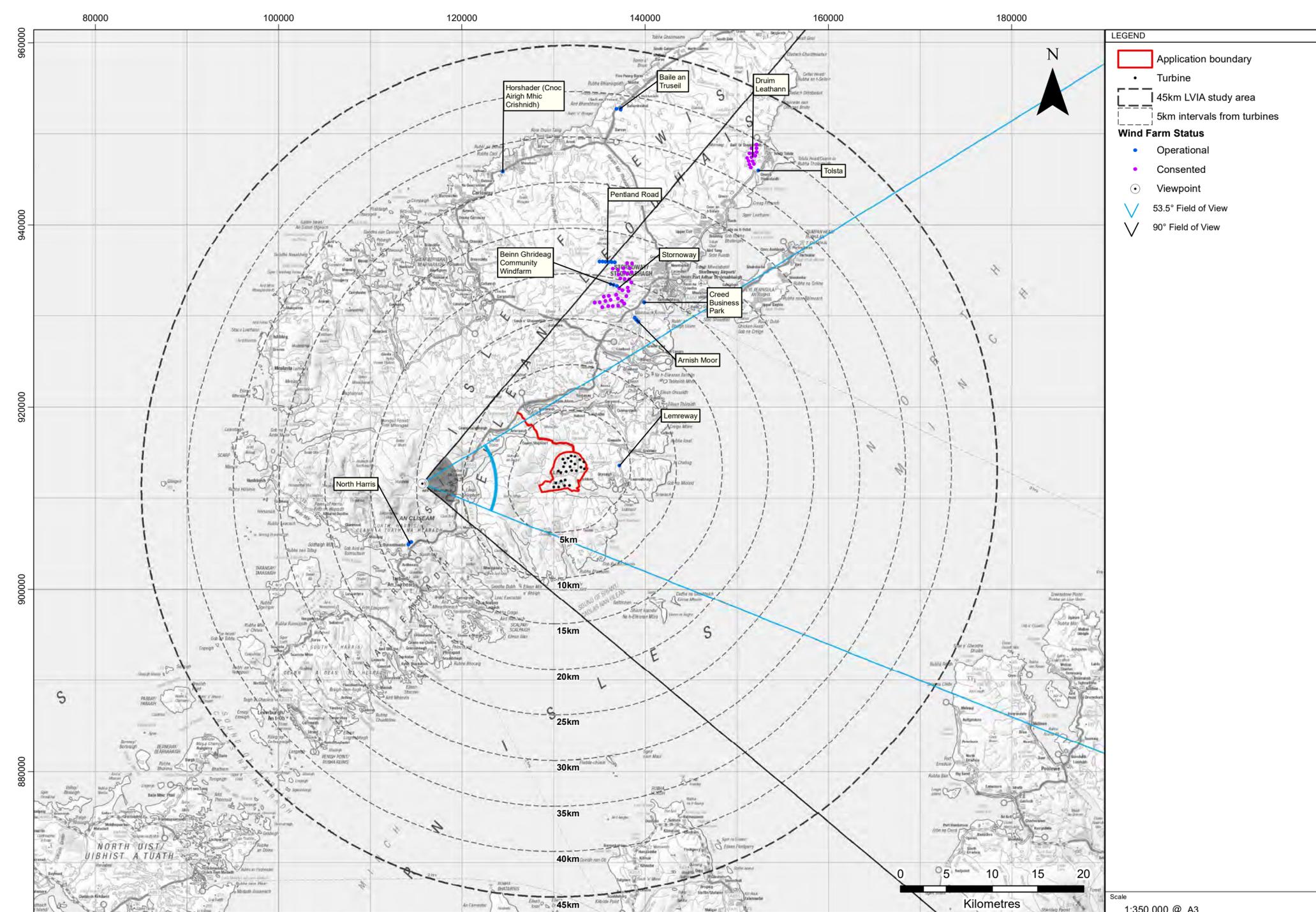
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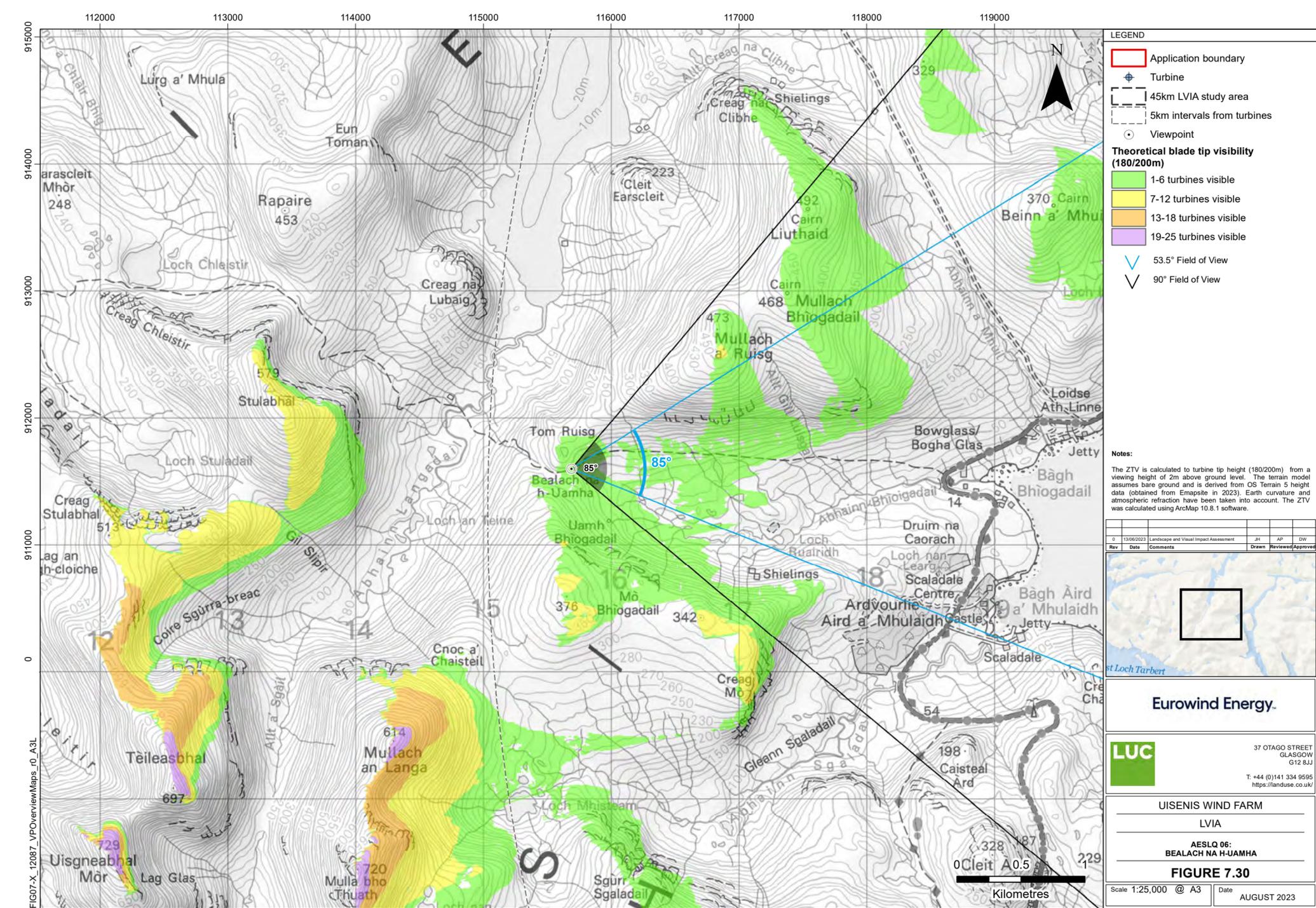
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LVIA  
**COMPARATIVE BLADE TIP HEIGHT ZTV - PAINTED VS UNPAINTED TURBINE BLADES**

**FIGURE 7.11**

Scale: 1:350,000 @ A3      Date: AUGUST 2023

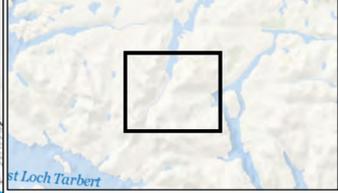


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**Notes:**  
 The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsle in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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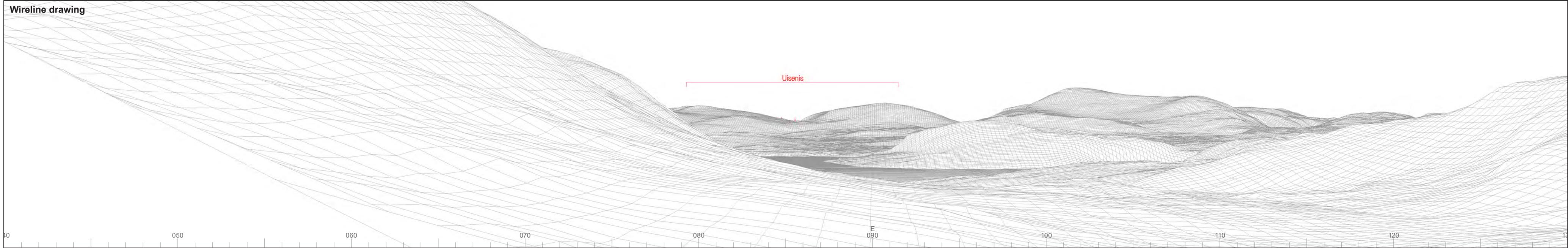
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**UISENIS WIND FARM**  
 LVIA:  
 AESLQ 06:  
 BEALACH NA H-UAMHA

**FIGURE 7.30**  
 Scale 1:25,000 @ A3 Date AUGUST 2023

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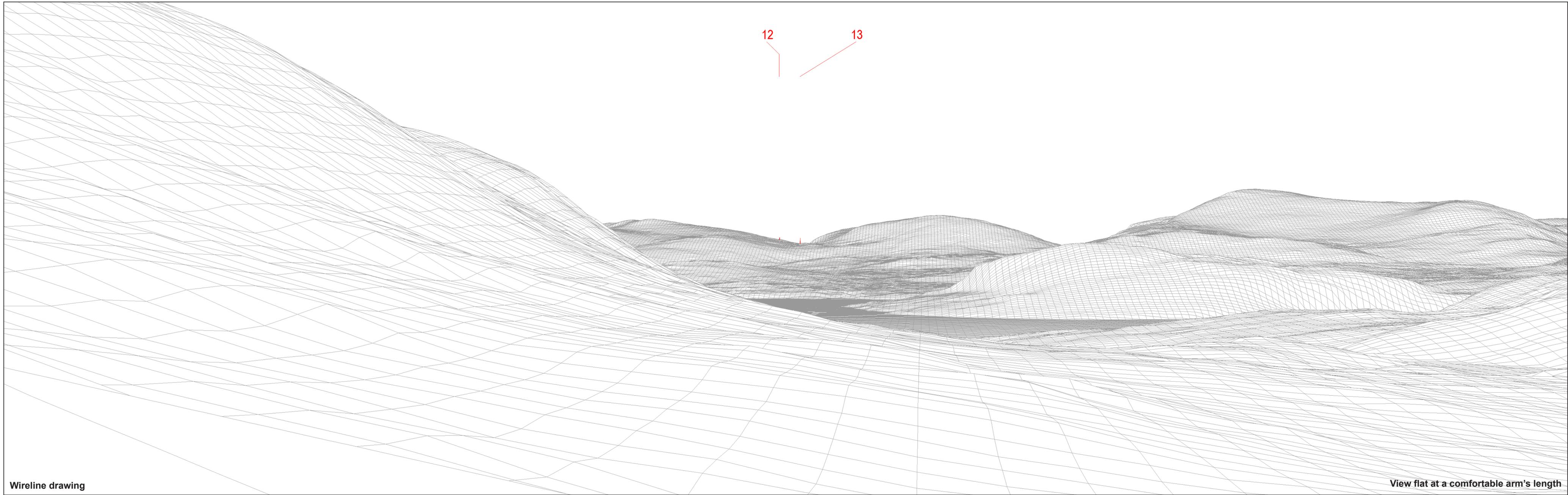
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OS reference:	115691E 911599N	Horizontal field of view:	90° (cylindrical projection)
AOD:	193.47 m	Principal distance:	522 mm
Direction of view:	85°	Paper size:	841 x 297 mm (half A1)
Nearest turbine:	14.35 km	Correct printed image size:	820 x 260 mm

Wind Farm Developments key  
(by status):

- Proposed scheme
- Operational
- Consented



Wireline drawing

View flat at a comfortable arm's length



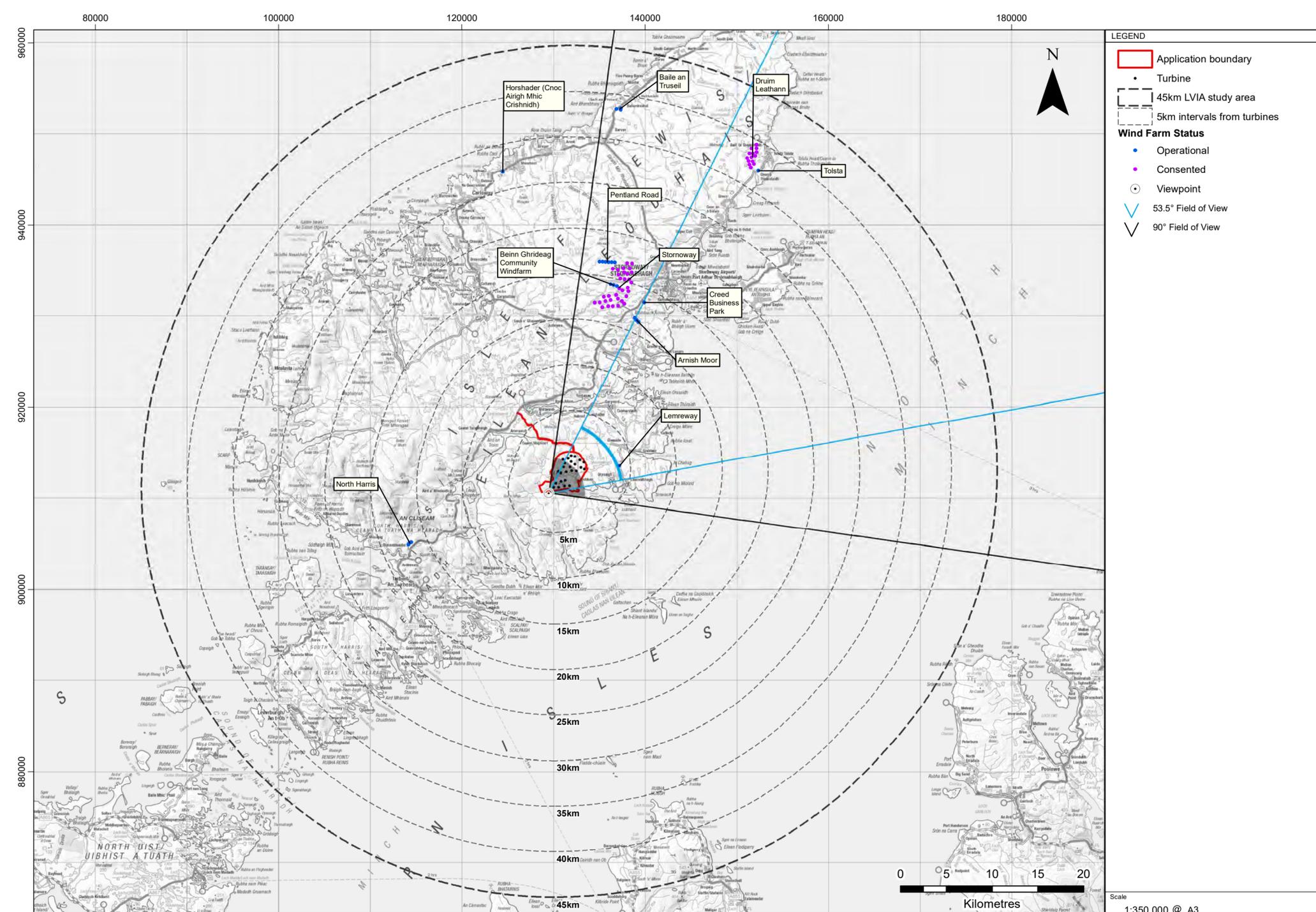
OS reference: 115691E 911599N  
 AOD: 193.47 m  
 Direction of view: 85°  
 Nearest turbine: 14.35 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

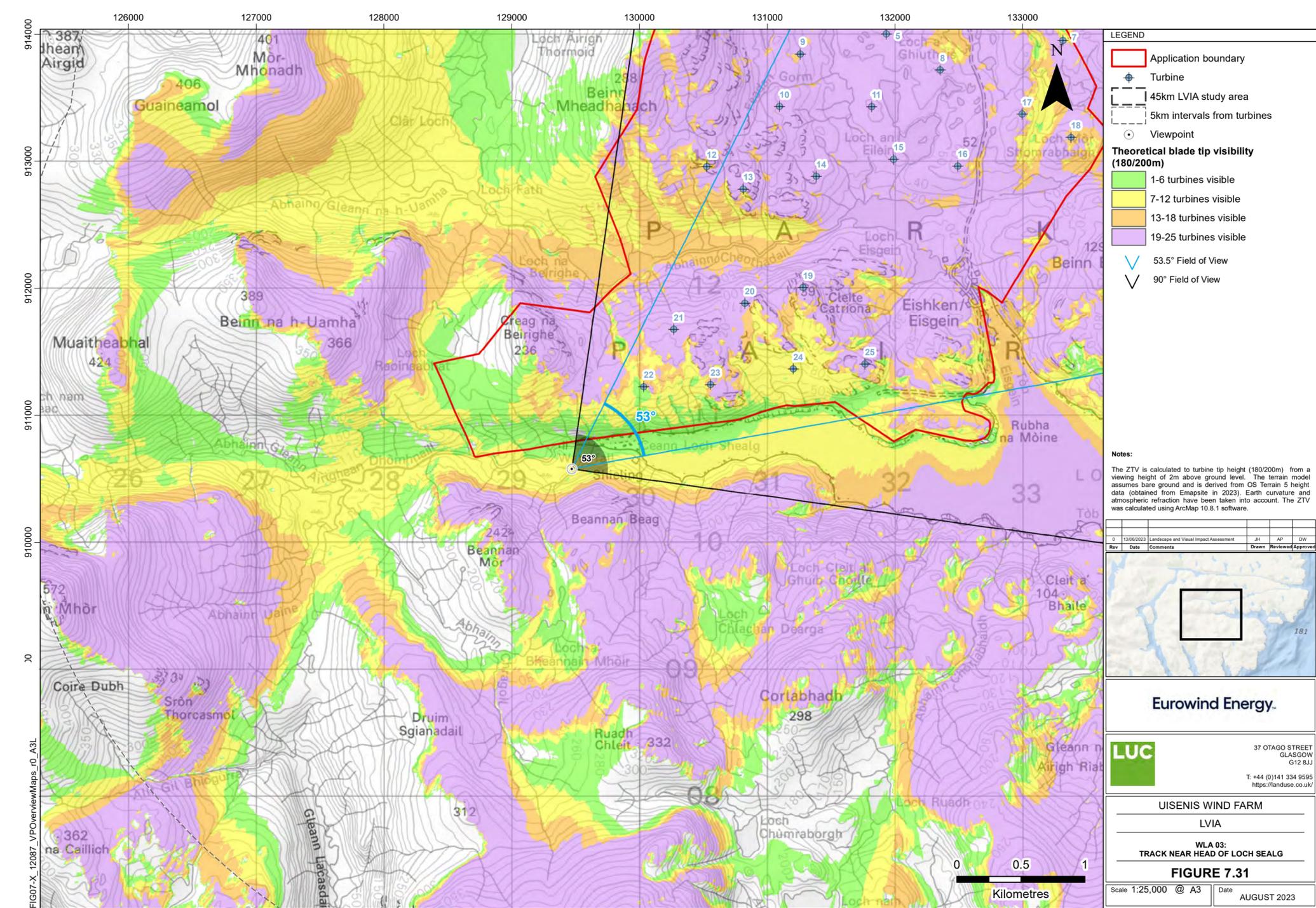
Wind Farm Developments key  
 (by status): **Proposed scheme**

**Notes:**  
 1) One turbine blade of T19-T25 to be painted black  
 2) Turbine lighting to be positioned on the nacelles of Turbines 1, 3, 7, 12, 18, 22, 25

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**Notes:**  
The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emaprise in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

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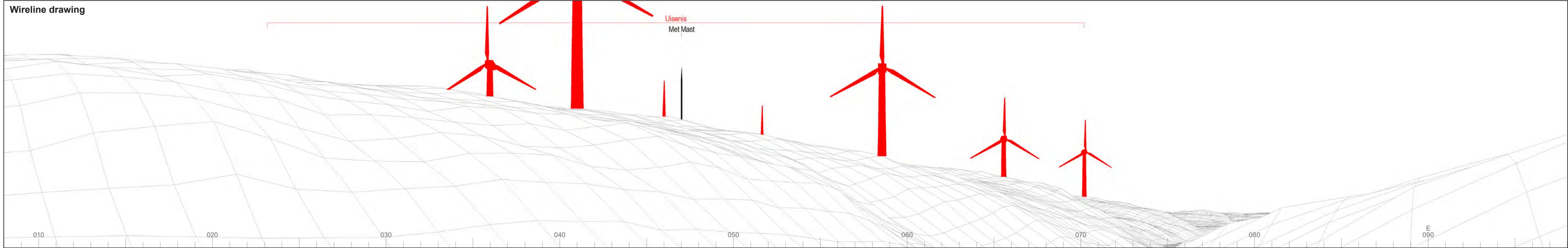
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**UISENIS WIND FARM**  
LVIA  
WLA 03:  
TRACK NEAR HEAD OF LOCH SEALG

**FIGURE 7.31**  
Scale 1:25,000 @ A3 Date AUGUST 2023

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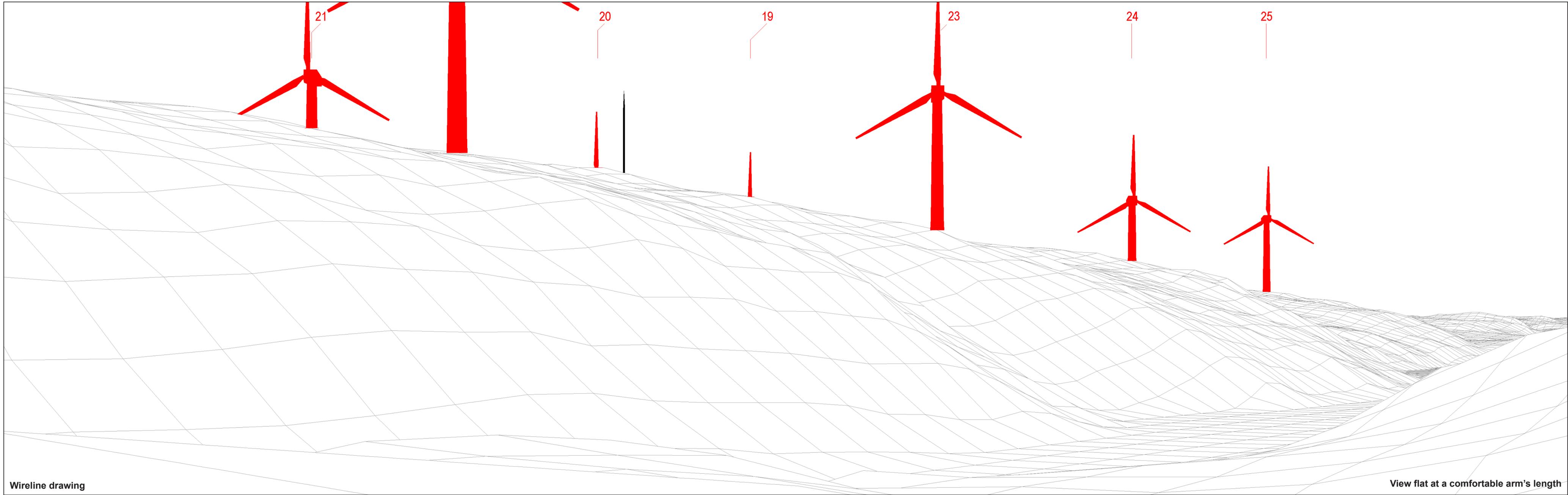


OS reference: 129469E 910577N  
 AOD: 31.67 m  
 Direction of view: 53°  
 Nearest turbine: 0.09 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented



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Wireline drawing

View flat at a comfortable arm's length



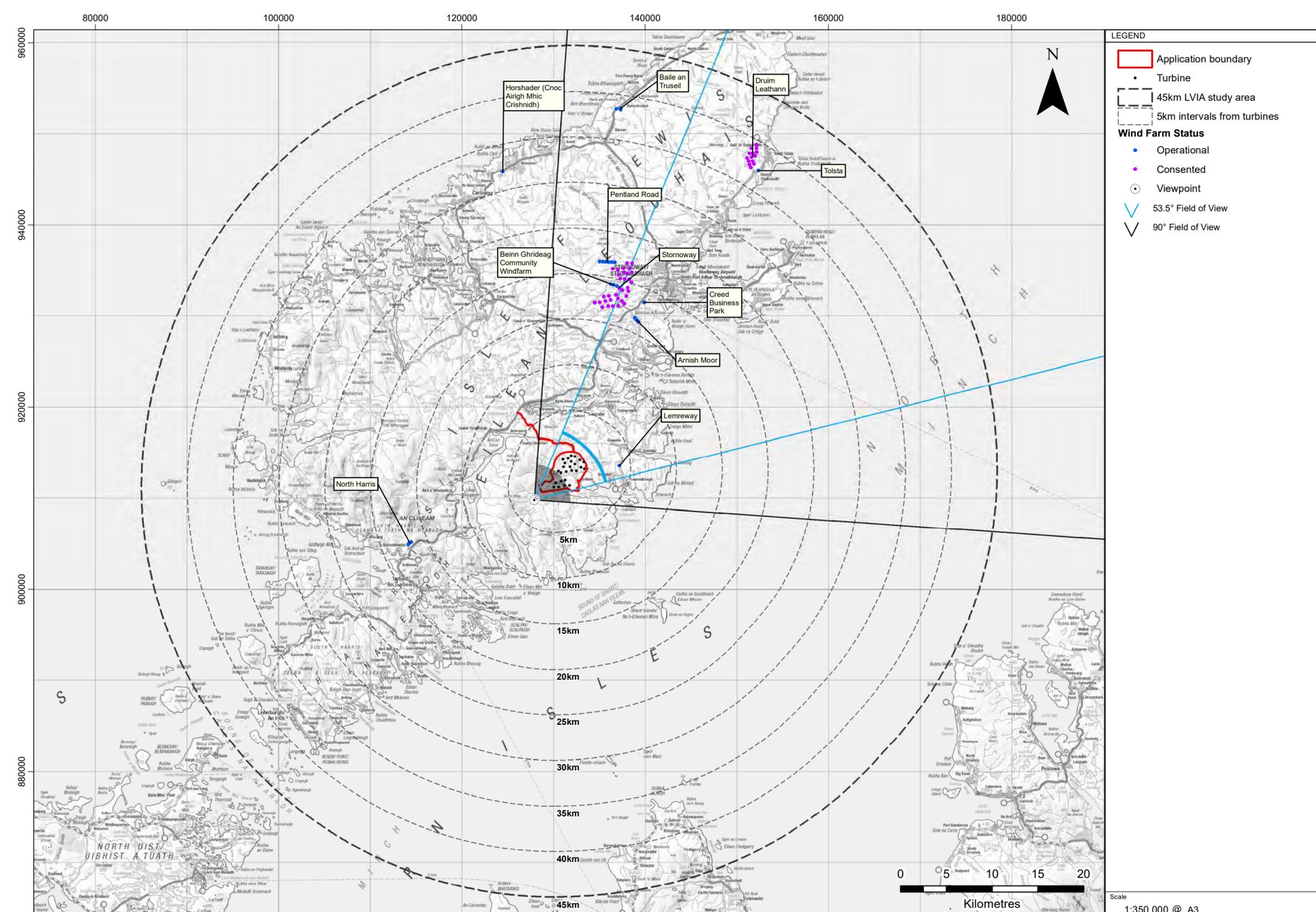
OS reference: 129469E 910577N  
 AOD: 31.67 m  
 Direction of view: 53°  
 Nearest turbine: 0.09 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

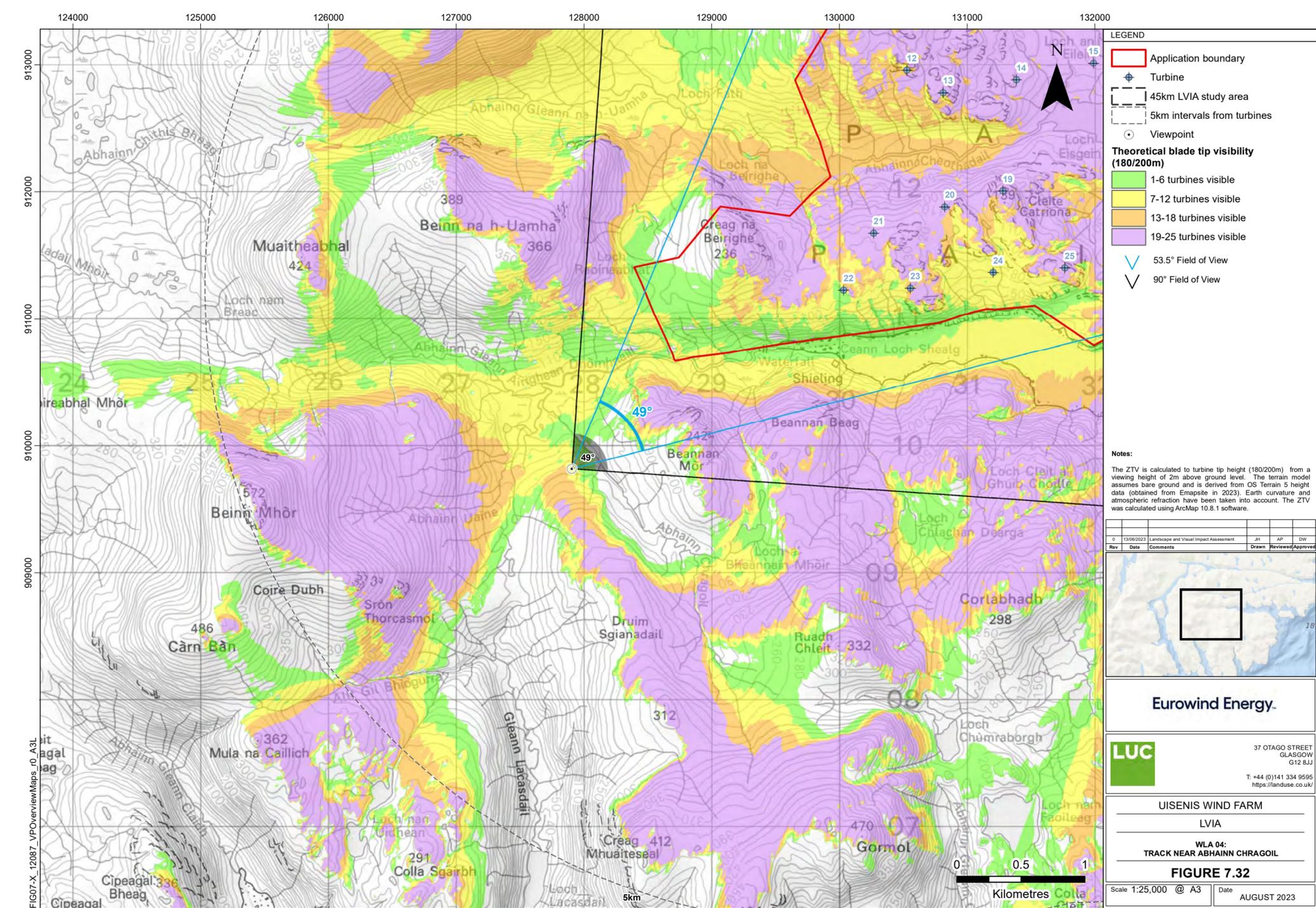
Wind Farm Developments key  
 (by status): Proposed scheme

Notes:  
 1) One turbine blade of T19-T25 to be painted black  
 2) Turbine lighting to be positioned on the nacelles of Turbines 1, 3, 7, 12, 18, 22, 25

Uisenis Wind Farm  
 Figure 7.31b  
 Assessment Point WLA 03: Track near head of Loch Sealg



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**Notes:**  
The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsle in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	JH	AP	DW
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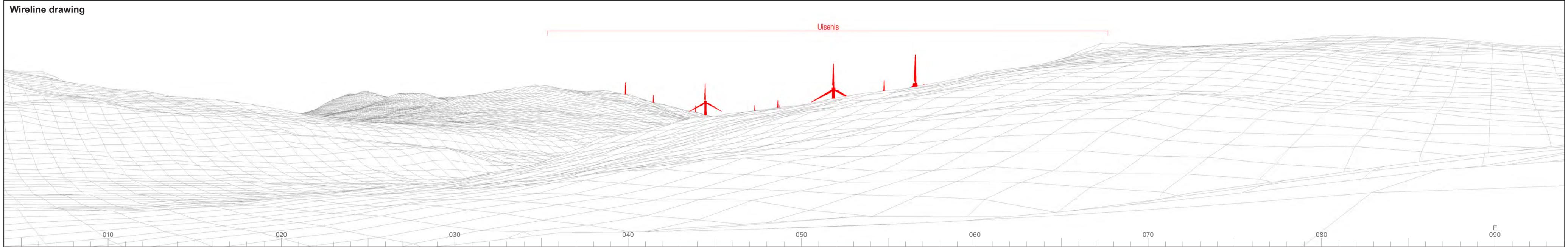


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**UISENIS WIND FARM**  
LVIA  
WLA 04:  
TRACK NEAR ABHAINN CHRAGOIL  
**FIGURE 7.32**  
Scale 1:25,000 @ A3 Date AUGUST 2023

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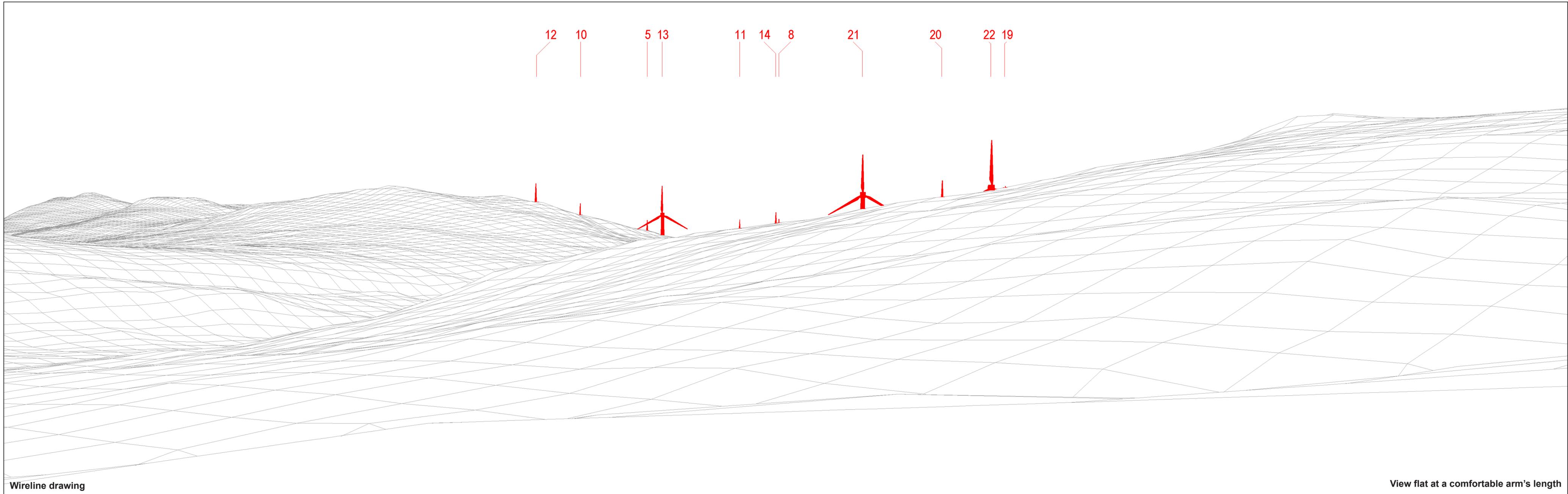


OS reference: 127904E 909818N  
 AOD: 146.59 m  
 Direction of view: 49°  
 Nearest turbine: 2.55 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented



Wireline drawing

View flat at a comfortable arm's length



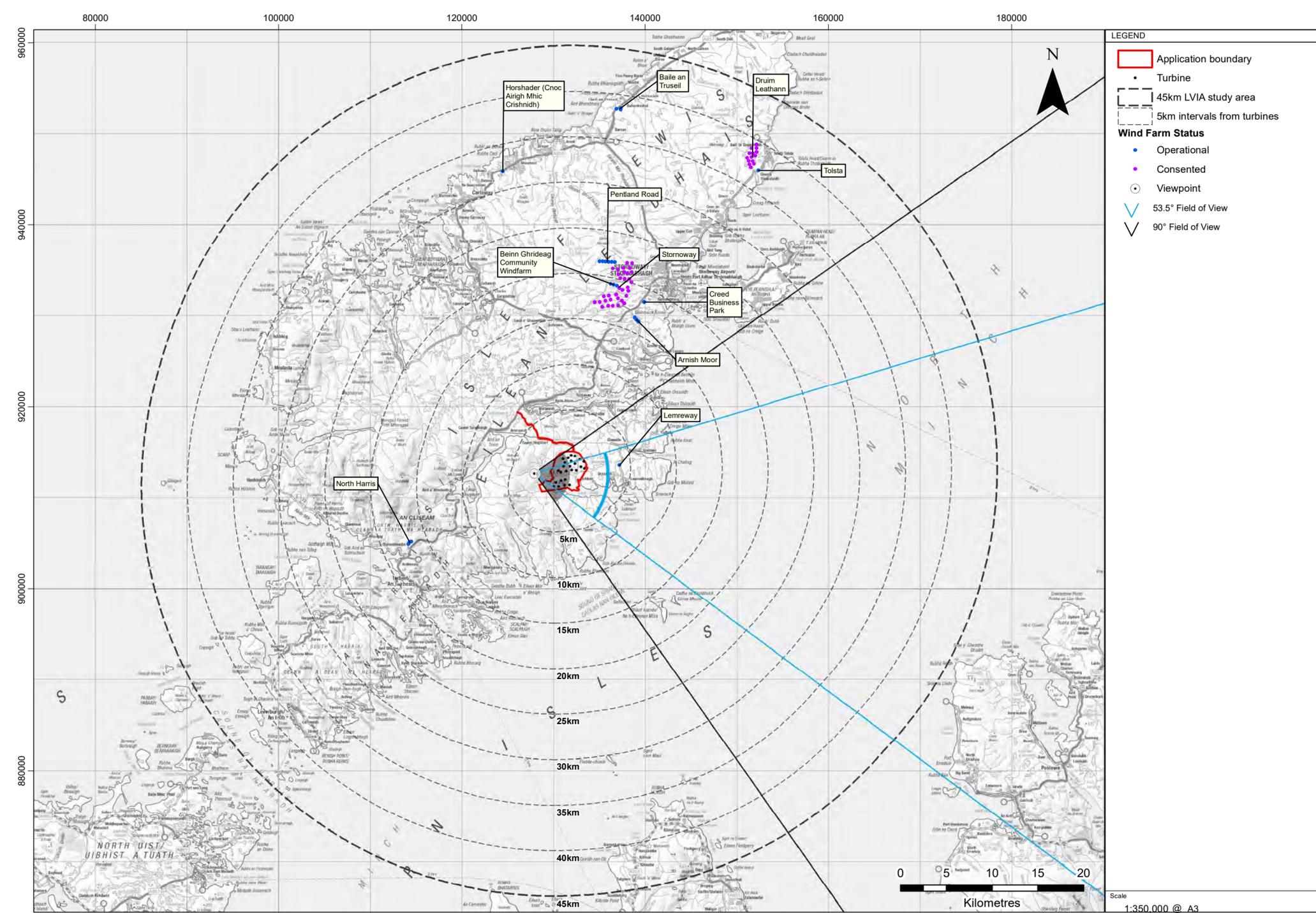
OS reference: 127904E 909818N  
 AOD: 146.59 m  
 Direction of view: 49°  
 Nearest turbine: 2.55 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

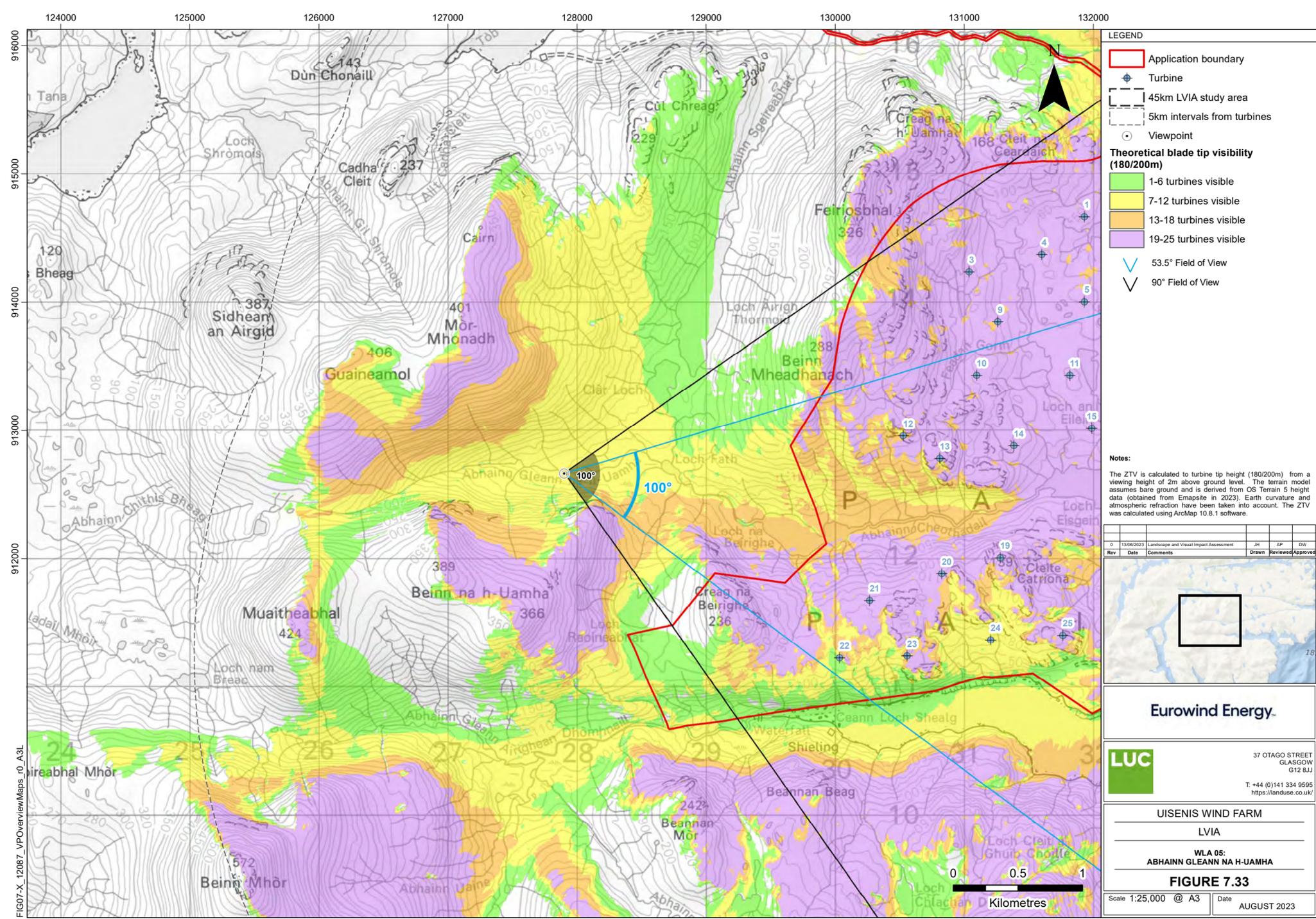
Wind Farm Developments key  
 (by status): Proposed scheme

Notes:  
 1) One turbine blade of T19-T25 to be painted black  
 2) Turbine lighting to be positioned on the nacelles of Turbines 1, 3, 7, 12, 18, 22, 25

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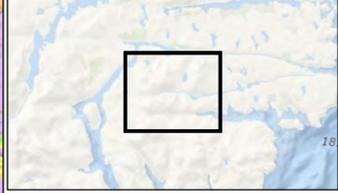


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**Notes:**  
The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsle in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	JH	AP	DW
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



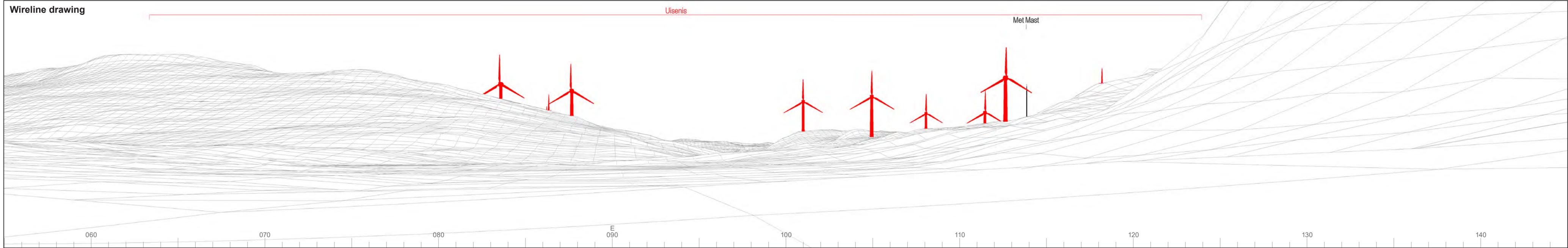
**Eurowind Energy.**

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T: +44 (0)141 334 9595  
https://landuse.co.uk/

**UISENIS WIND FARM**  
LVIA  
WLA 05:  
**ABHAINN GLEANN NA H-UAMHA**

**FIGURE 7.33**  
Scale 1:25,000 @ A3 Date AUGUST 2023

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Wireline drawing

Uisenis

Met Mast

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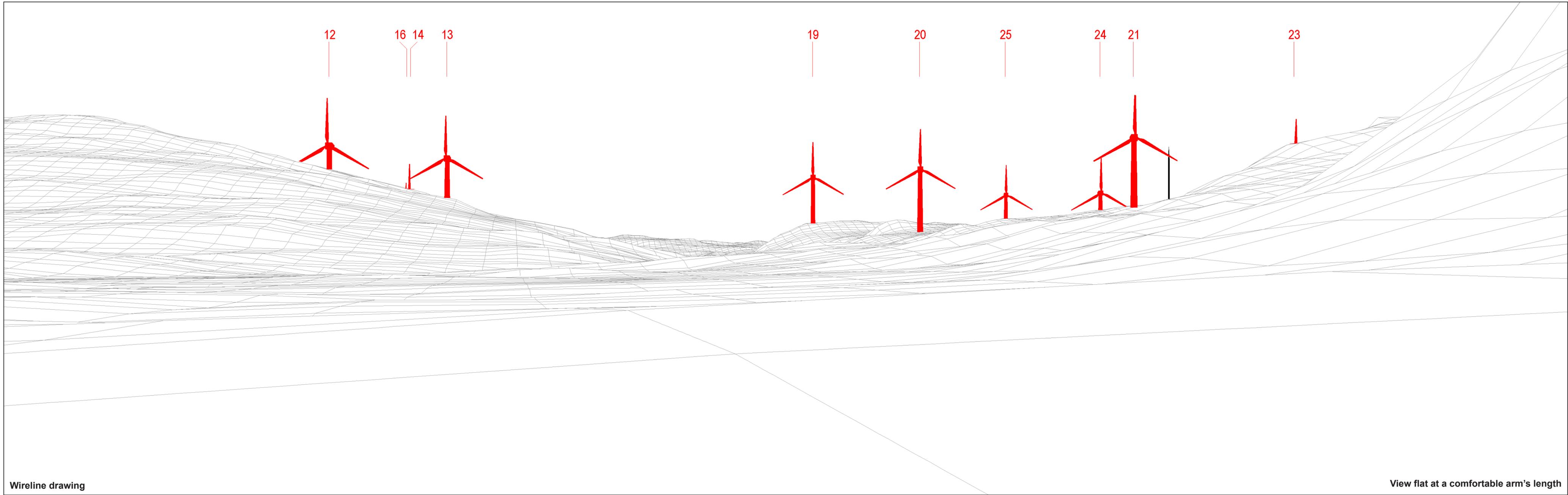


OS reference: 127899E 912663N  
 AOD: 71.08 m  
 Direction of view: 100°  
 Nearest turbine: 2.57 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented



Wireline drawing

View flat at a comfortable arm's length



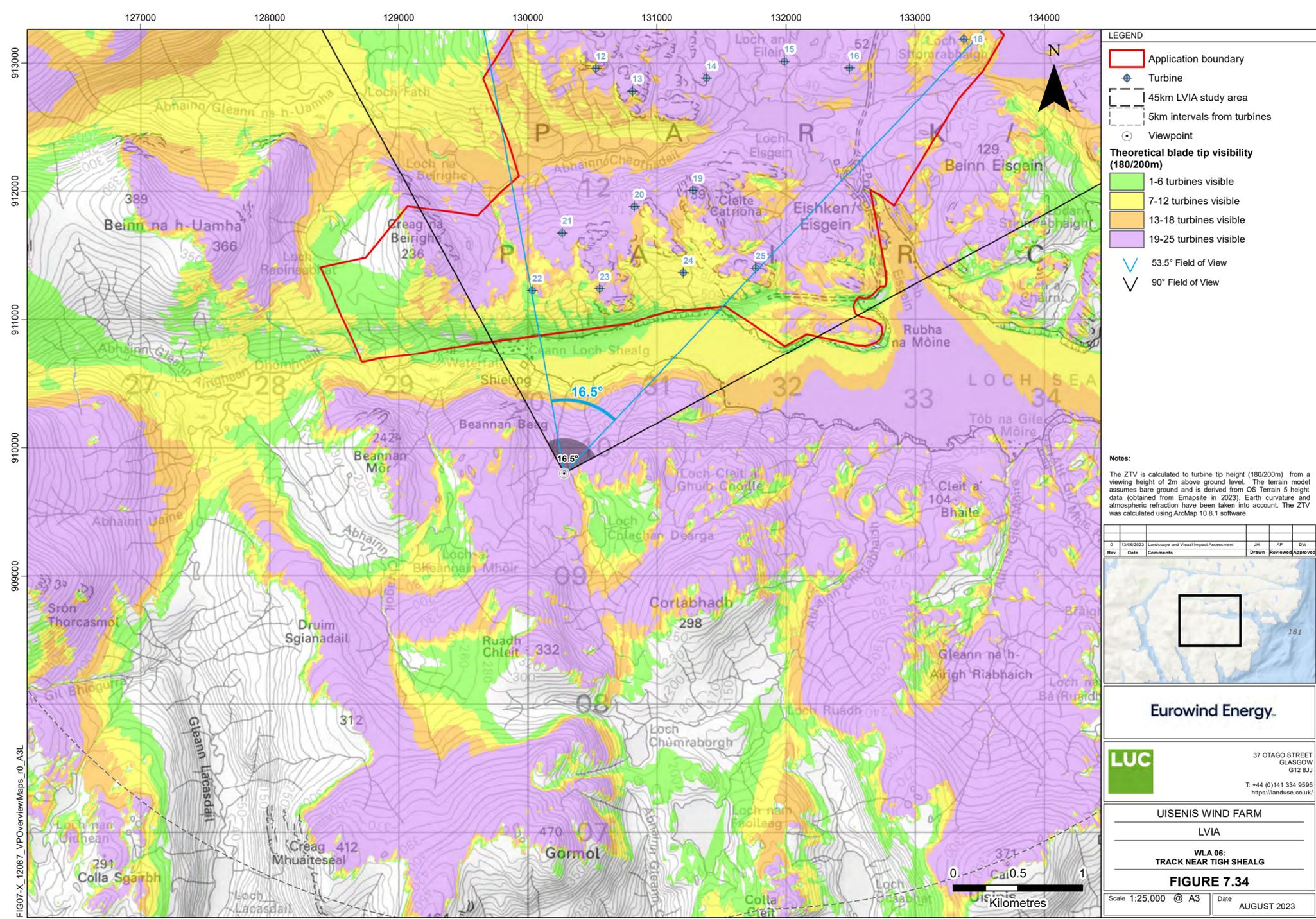
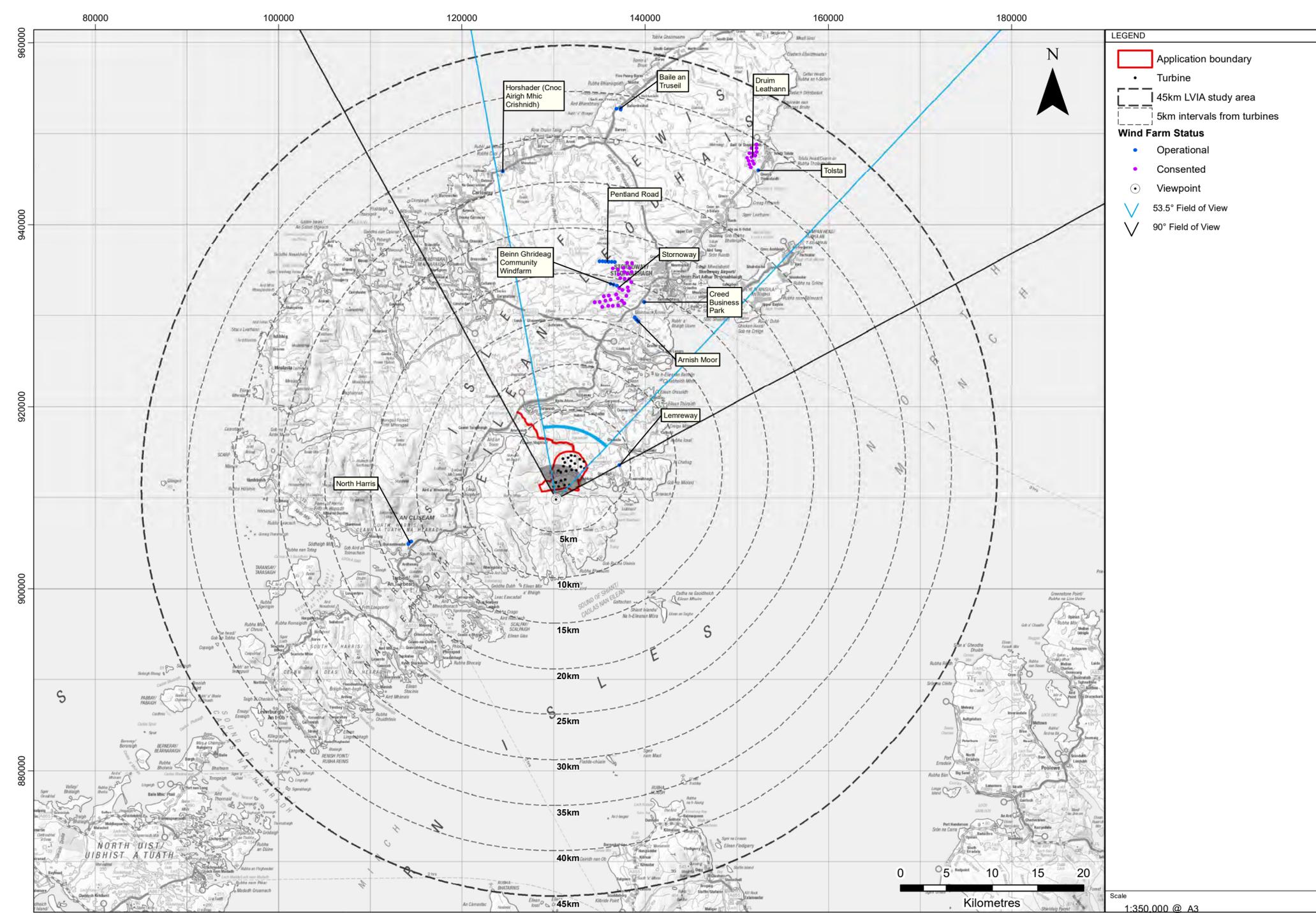
OS reference: 127899E 912663N  
 AOD: 71.08 m  
 Direction of view: 100°  
 Nearest turbine: 2.57 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status): Proposed scheme

Notes:  
 1) One turbine blade of T19-T25 to be painted black  
 2) Turbine lighting to be positioned on the nacelles of Turbines 1, 3, 7, 12, 18, 22, 25

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**Notes:**  
The ZTV is calculated to turbine tip height (180/200m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data (obtained from Emapsle in 2023). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.8.1 software.

Rev	Date	Comments	JH	AP	DW
0	13/06/2023	Landscape and Visual Impact Assessment	JH	AP	DW



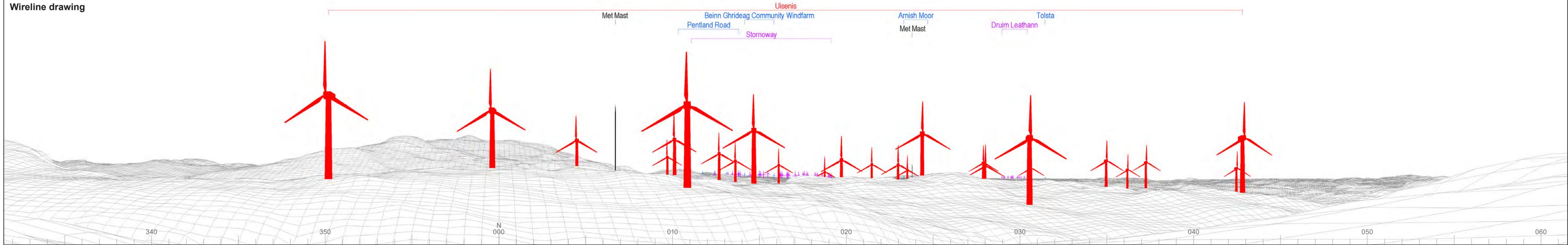
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**UISENIS WIND FARM**  
LVIA  
WLA 06:  
TRACK NEAR TIGH SHEALG

**FIGURE 7.34**  
Scale 1:25,000 @ A3 Date AUGUST 2023

Wireline drawing



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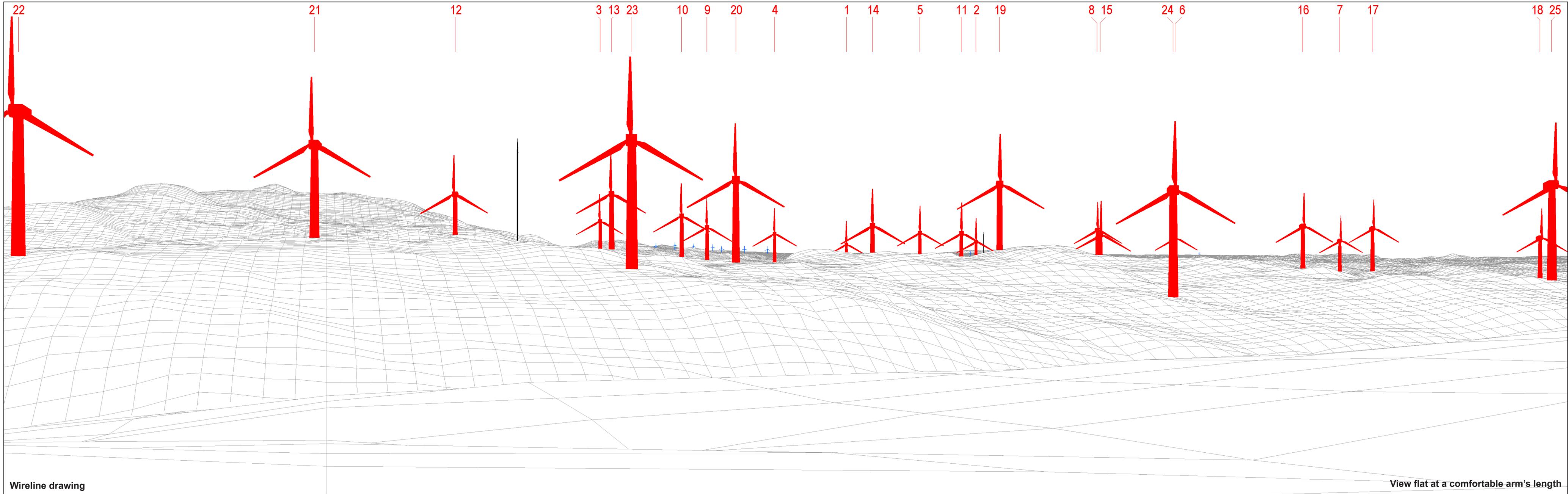


OS reference: 130280E 909799N  
 AOD: 130.43 m  
 Direction of view: 16.5°  
 Nearest turbine: 1.45 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented



Wireline drawing

View flat at a comfortable arm's length



OS reference: 130280E 909799N  
 AOD: 130.43 m  
 Direction of view: 16.5°  
 Nearest turbine: 1.45 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational

Notes:  
 1) One turbine blade of T19-T25 to be painted black  
 2) Turbine lighting to be positioned on the nacelles of Turbines 1, 3, 7, 12, 18, 22, 25

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