

APPENDIX 12

Appendix 12-1 Landscape and Visual Maps

Figure 12.1 Study Area

Figure 12.3 Landscape Designations

Figure 12.4 Landscape Designations with Tip Height ZTV

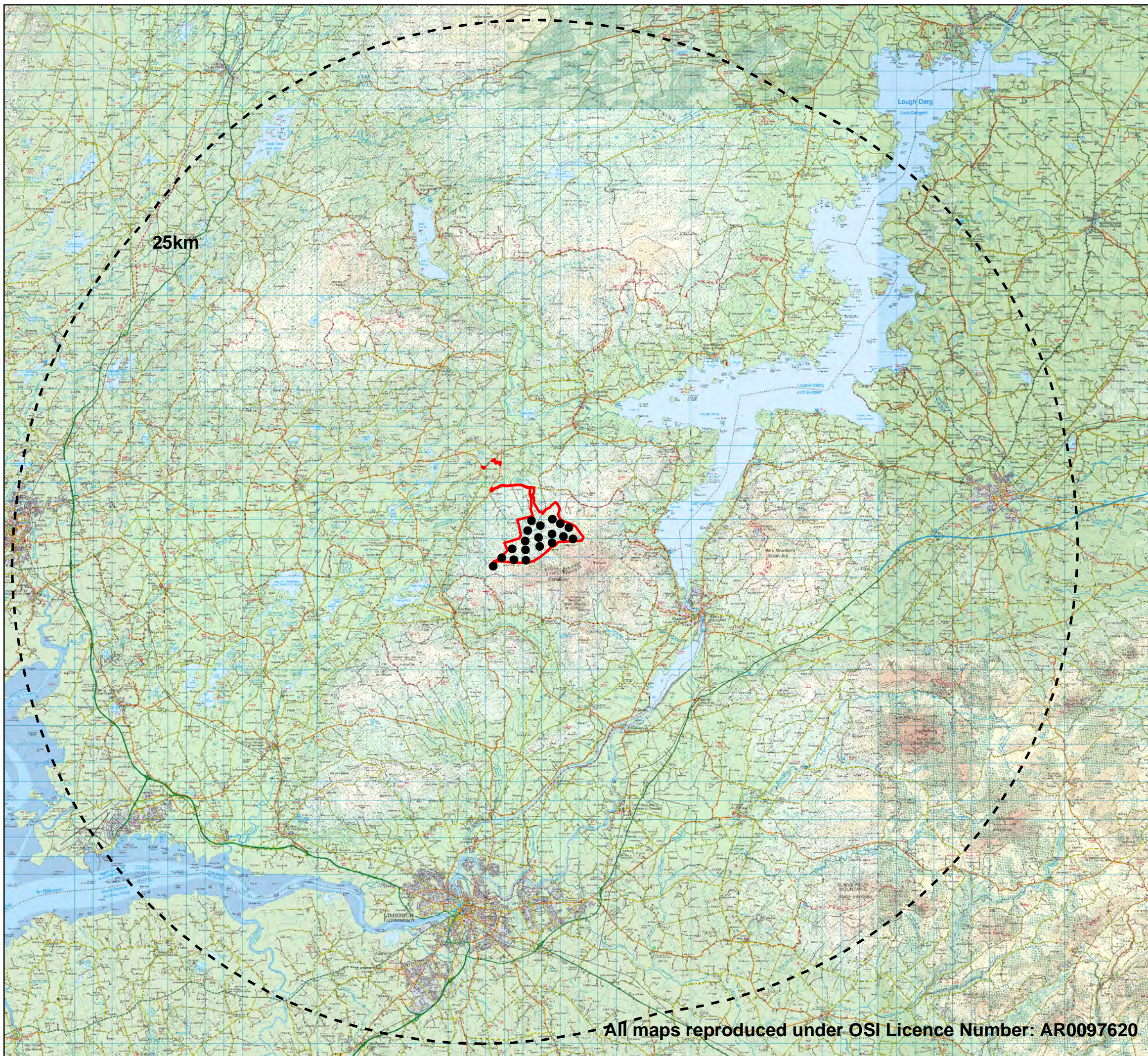
Figure 12.9 Waymarked trails

Figure 21.11 Zone of Theoretical Visibility Map – Hub Height

Figure 21.12 Zone of Theoretical Visibility Map – Blade Tip Height

Figure 21.13 Zone of Theoretical Visibility Map: Cumulative – Hub Height

Figure 12.14 Initial and Selected Viewpoints



Legend

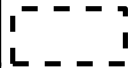



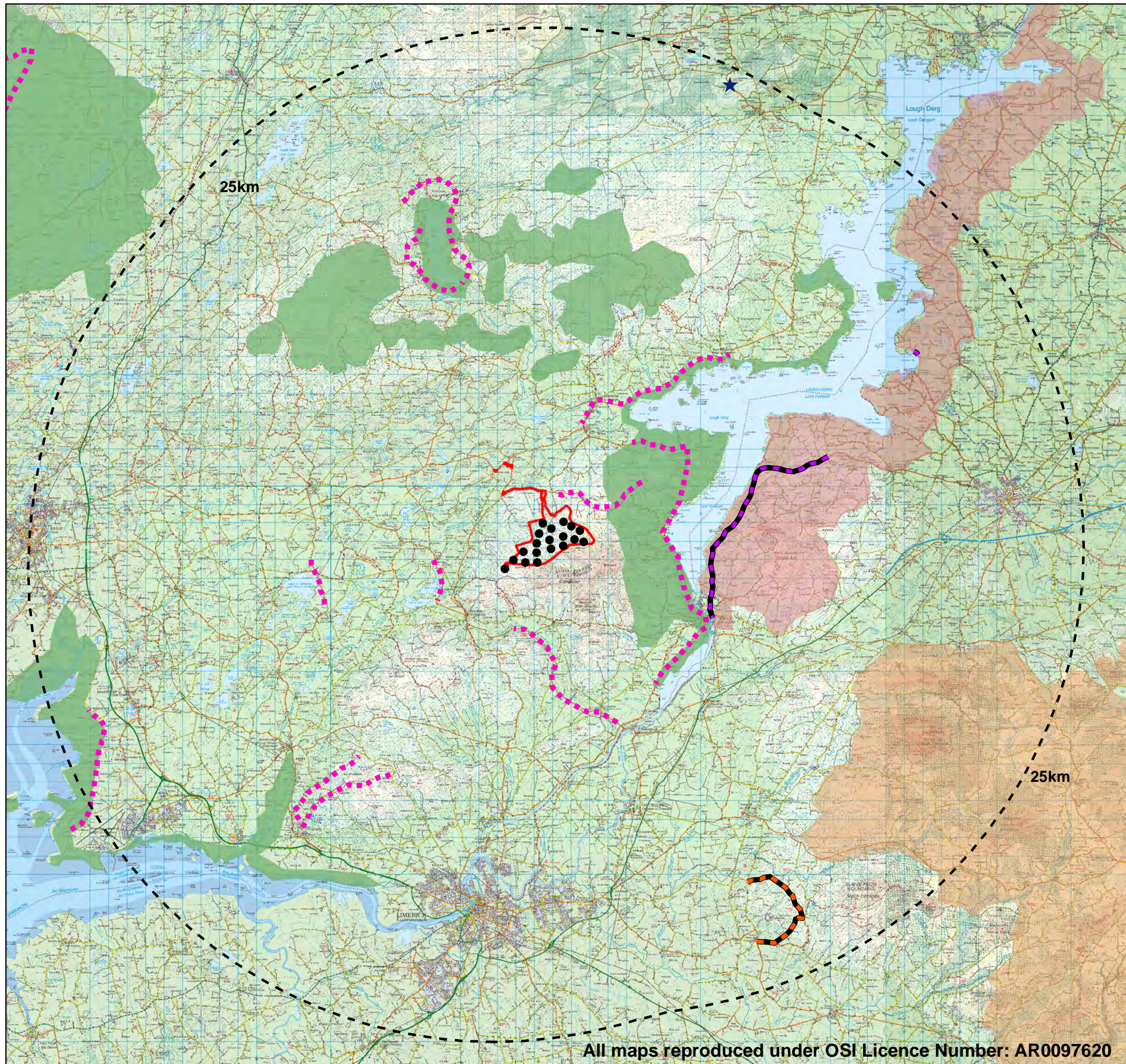
-  25km buffer
-  Site Boundary
-  Proposed Turbines

Figure 12.1 Study Area
Carrownagowan Wind Farm
Drawn: E. Sikora
Date: 15/09/2020

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 Scale 1:200,000



Legend

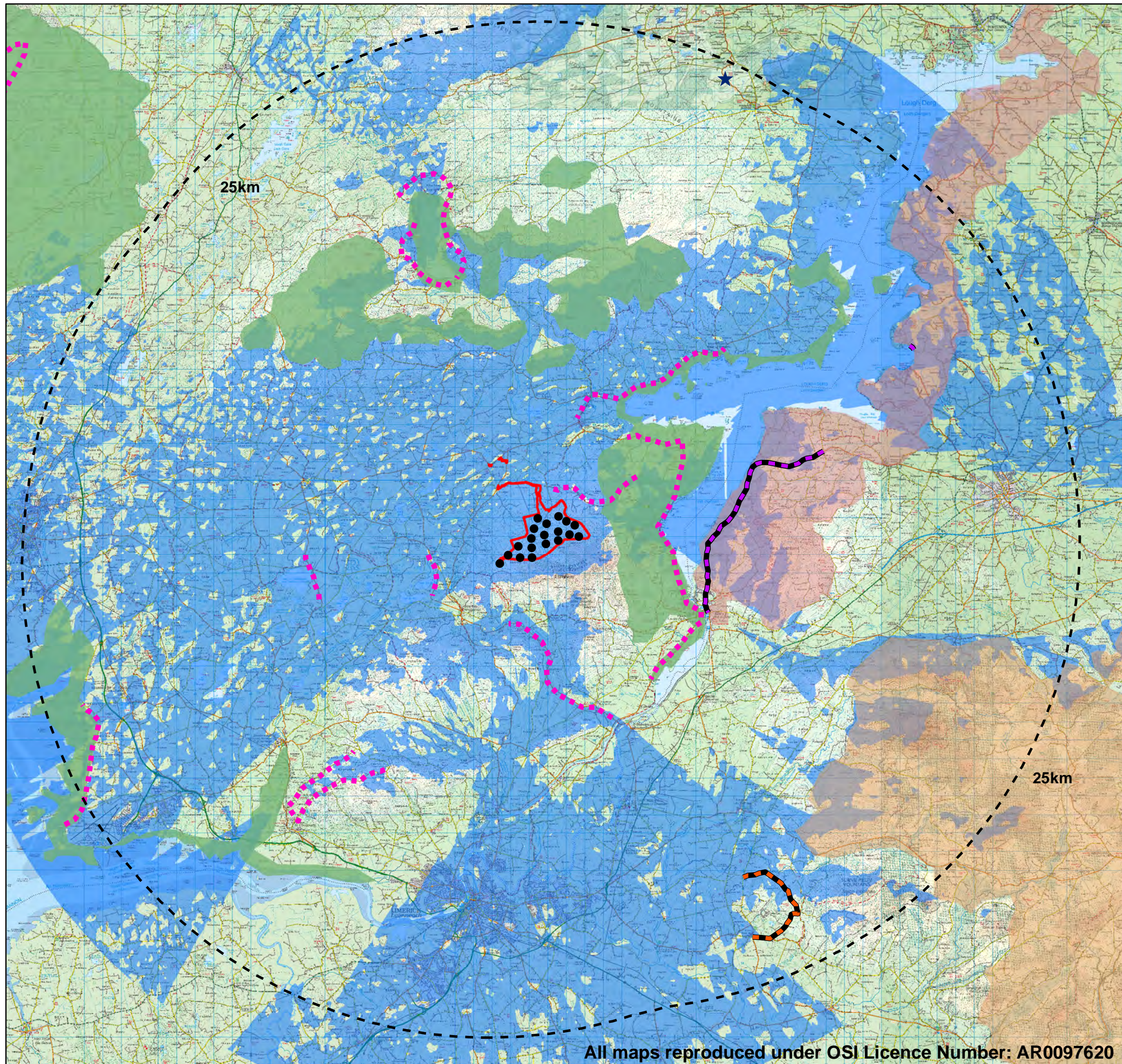
- Clare Heritage Landscape
- Clare Scenic Routes
- Tipperary Scenic Routes
- Limerick Scenic Routes
- Tipperary Primary Amenity Areas
- Tipperary Secondary Amenity Areas
- Galway Protected Views
- Proposed Turbines
- Site Boundary
- 25km buffer

Figure 12.3 Landscape Designations

Carrowmagowan Wind Farm
Drawn: E. Sikora
Date: 15/09/2020



Scale: 1:200,000

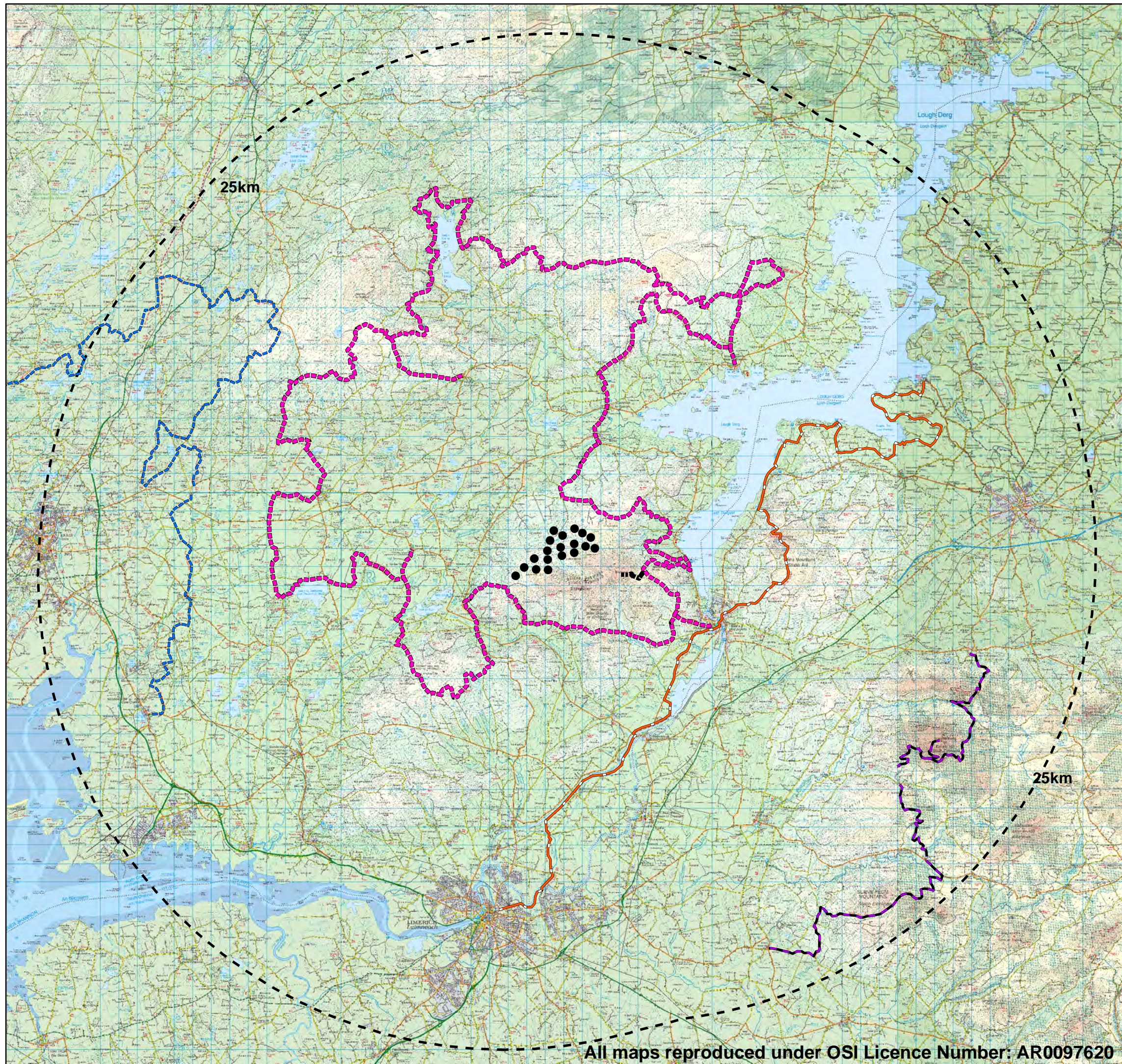


Legend

- Clare Heritage Landscape
- Clare Scenic Routes
- Tipperary Scenic Routes
- Limerick Scenic Routes
- Tipperary Primary Amenity Areas
- Tipperary Secondary Amenity Areas
- Galway Protected Views
- Proposed Turbines
- Site Boundary
- 25km buffer
- Tip Height ZTV (solid colour)**
-

Figure 12.4: Landscape Designations with Tip Height ZTV
Carrowmagowan Wind Farm
 Drawn: E. Sikora
 Date: 15/09/2020

N
 Scale: 1:200,000



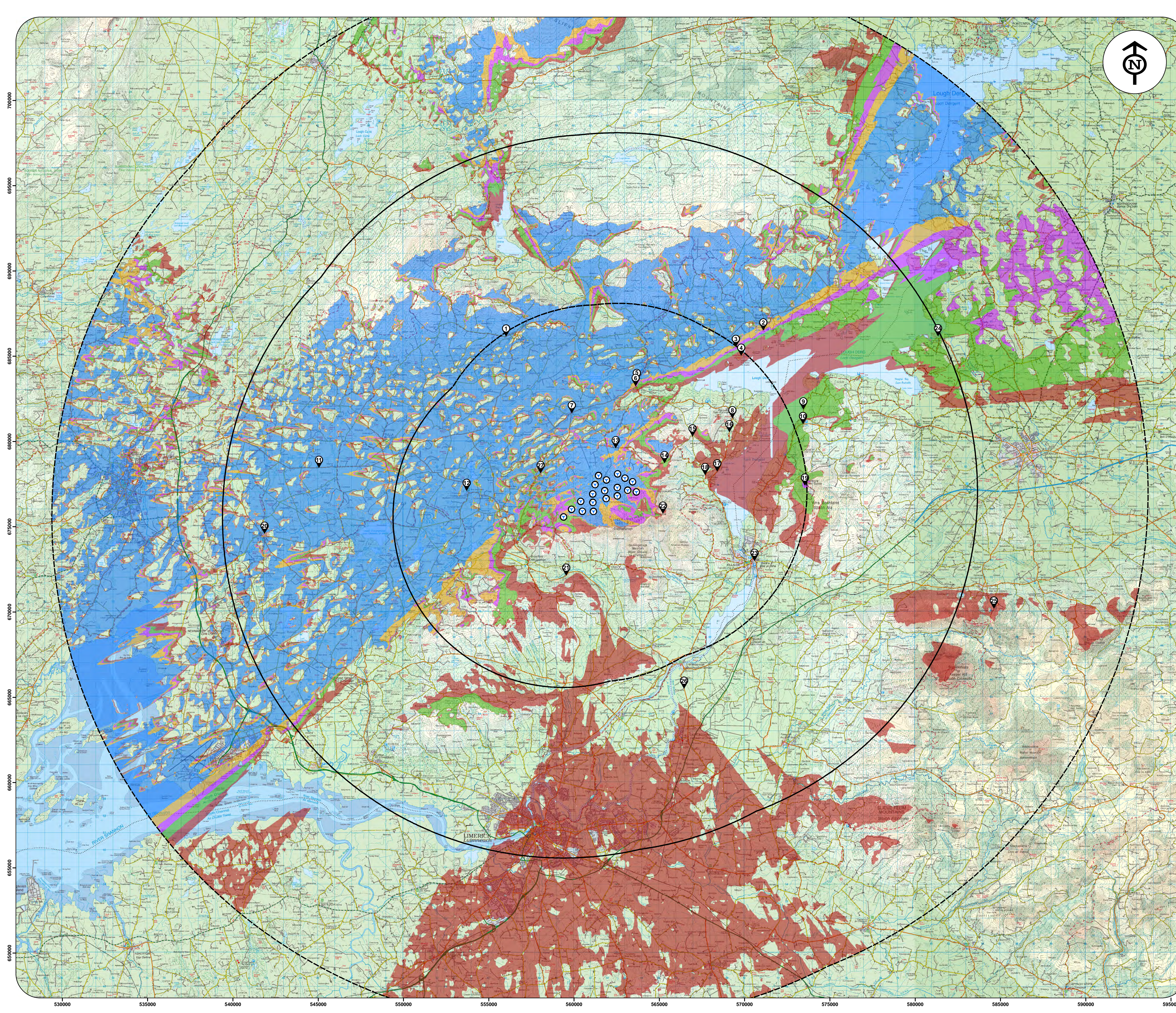
Legend

- Proposed Turbines
- █ East Clare Way
- █ Moylussa trail
- █ Lough Derg Way
- █ Slieve Feilim Way
- █ Mid Clare Way
- █ 25km buffer

Figure 12.9: Waymarked trails

Carrowmagowan Wind Farm
Drawn: E. Sikora
Date: 15/09/2020

N
 ▲ Scale: 1:200,000@A3



Zone of Theoretical Visibility (ZTV) Map indicating areas with a theoretical view of the proposed Carrownagowan turbines

Calculated to Hub Height (101m)

Proposed Carrownagowan Turbines



Number of Turbines Visible

- 1 - 4
- 5 - 8
- 9 - 12
- 13 - 16
- 17 - 19

Proposed Photomontage Location



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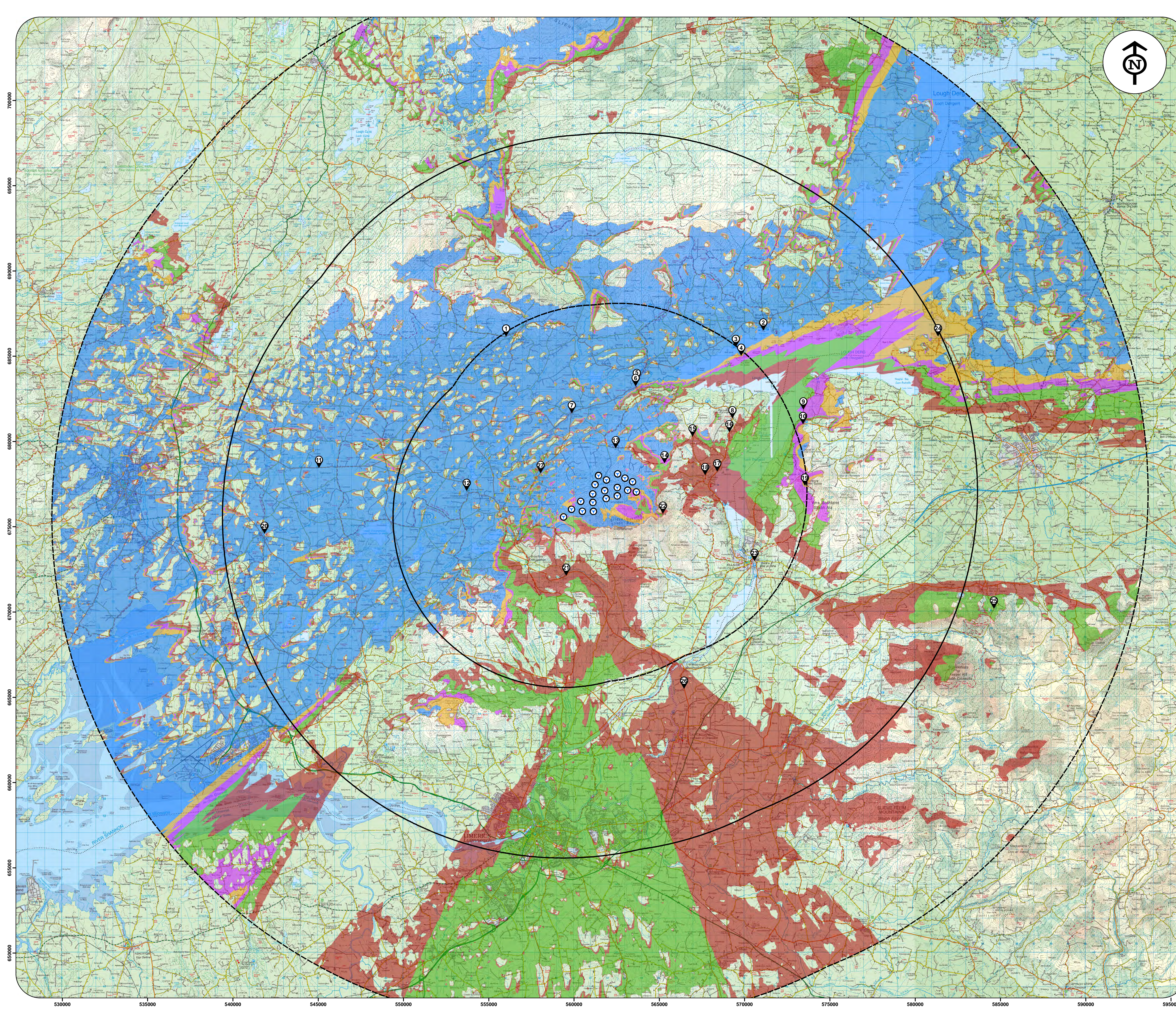
Date: 7th February 2020

Scale when printed at A1 Size = 1:100,000

1 centimeter = 1,000 meters

- Notes:
- Theoretical visibility is based on an observer being able to see at least a full turbine blade.
 - Theoretical visibility is based on an observer eye level of 2m above ground level.
 - Calculation does not account for screening due to vegetation, forestry, buildings or any other similar forms of screening.
 - Calculation has been run using Ordnance Survey 10m DTM height data.
 - Earth curvature and light refraction has been included in this calculation.





Zone of Theoretical Visibility (ZTV) Map indicating areas with a theoretical view of the proposed Carrownagowan turbines

Calculated to Blade Tip Height (169m)

Proposed Carrownagowan Turbines



Number of Turbines Visible

- 1 - 4
- 5 - 8
- 9 - 12
- 13 - 16
- 17 - 19

Proposed Photomontage Location



DRAFT - FROZEN LO

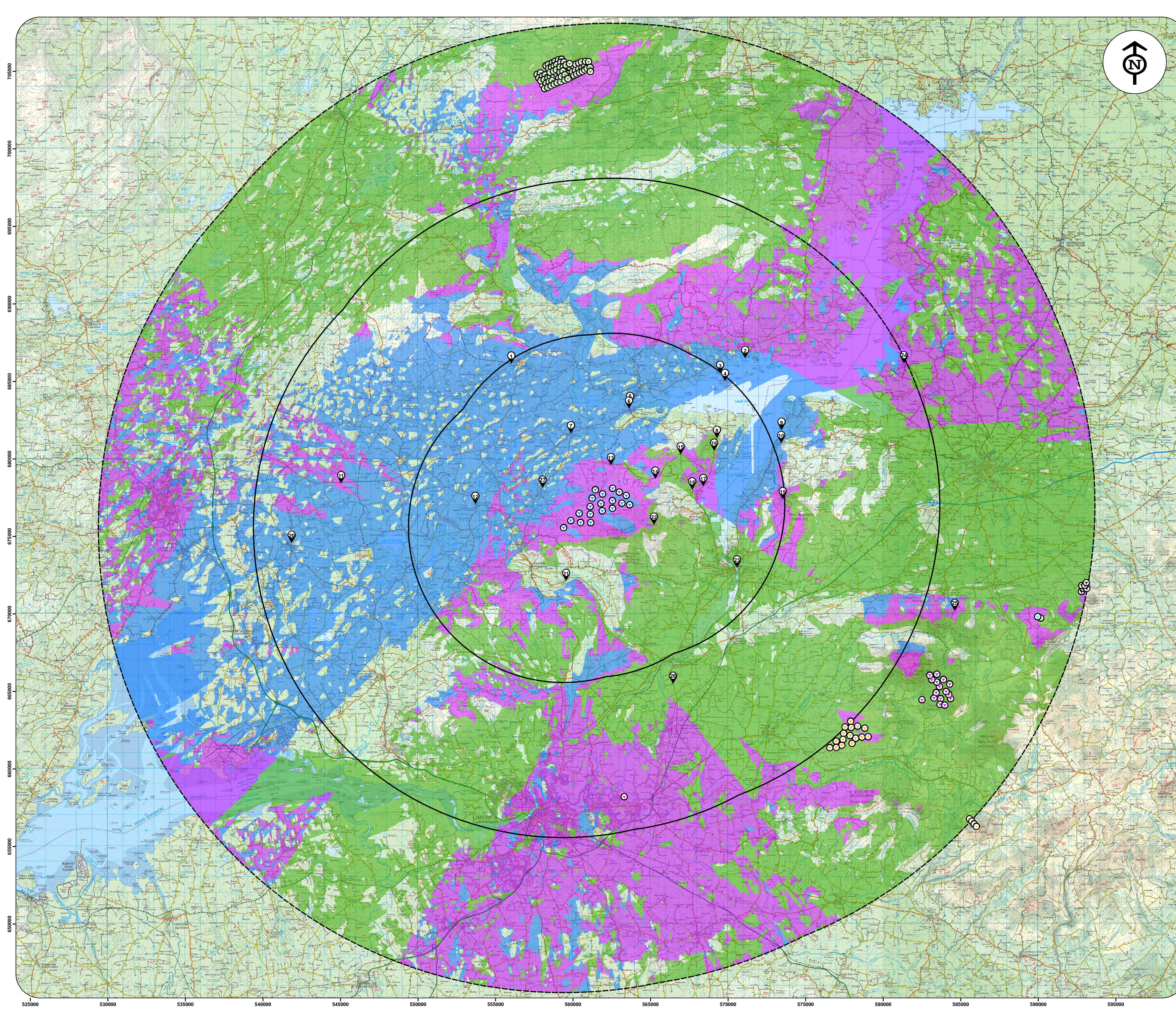
Date: 7th February 2020

Scale when printed at A1 Size = 1:100,000

1 centimeter = 1,000 meters

Notes:

- Theoretical visibility is based on an observer being able to see at least a turbine blade tip.
- Theoretical visibility is based on an observer eye level of 2m above ground level.
- Calculation does not account for screening due to vegetation, forestry, buildings or any other similar forms of screening.
- Calculation has been run using Ordnance Survey 10m DTM height data.
- Earth curvature and light refraction has been included in this calculation.



Zone of Theoretical Visibility (ZTV) Map indicating areas with a theoretical view of the proposed Carrownagowan wind farm, in combination with all other existing & permitted wind farms within the study area

Calculated to Hub Height (Varying Heights)

Proposed Carrownagowan Turbines



Cumulative Wind Farms

- Bunkimalta (Permitted)
- Castlewaller (Permitted)
- Curraghgraique (Existing)
- Derrybrien (Existing)
- Knockastanna (Existing)
- Templederry (Existing)
- Vistakon (Existing)

Wind Turbines Visible

- Carrownagowan Turbines Only
- Overlap of Carrownagowan turbines with all other cumulative turbines
- Cumulative Turbines Only

Proposed Photomontage Location



DRAFT - FROZEN LO

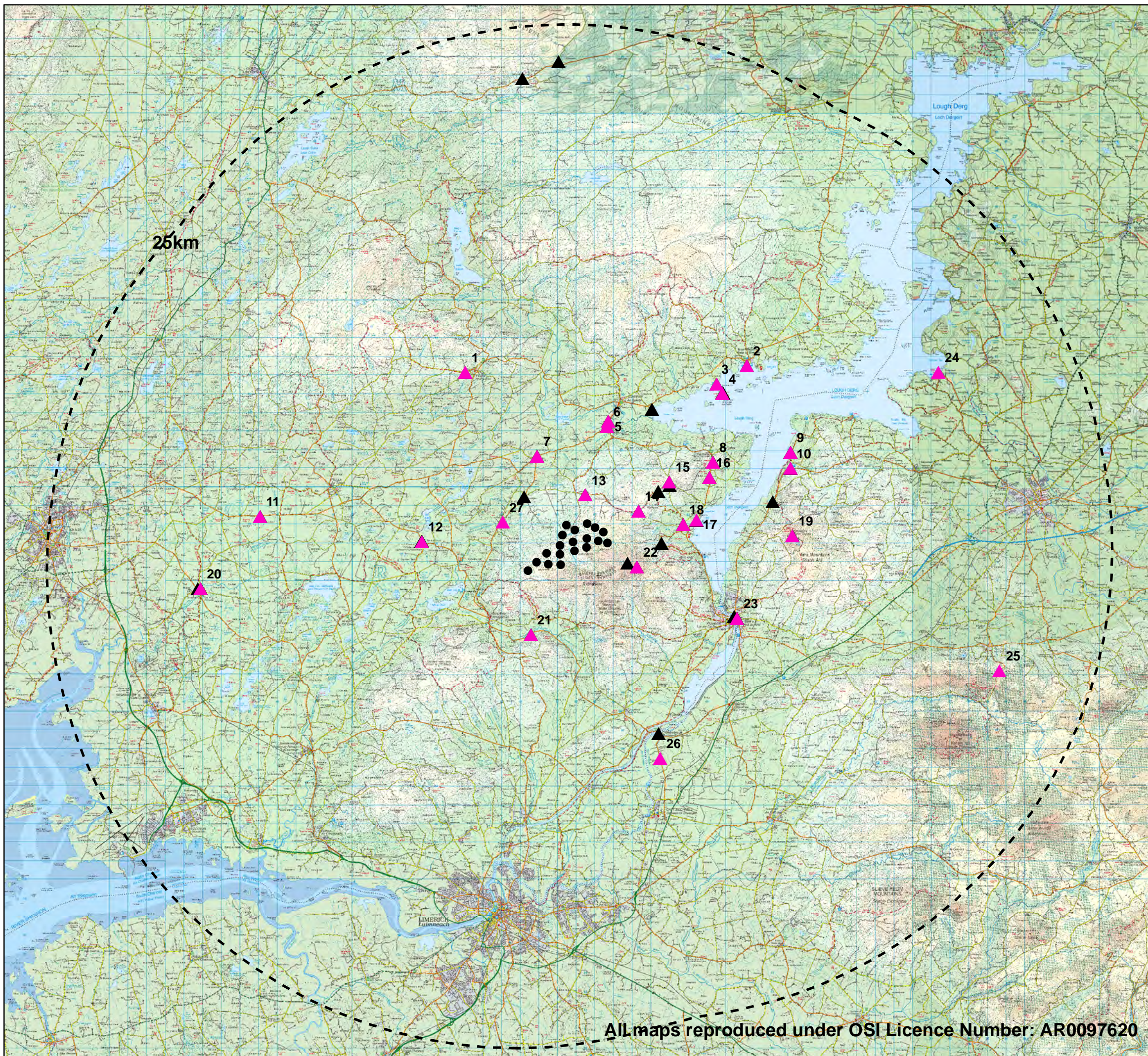
Date: 7th February 2020

Scale when printed at A1 Size = 1:110,000

1 centimeter = 1,100 meters

Notes:

- Theoretical visibility is based on an observer being able to see at least a full turbine blade.
- Theoretical visibility is based on an observer eye level of 2m above ground level.
- Calculation does not account for screening due to vegetation, forestry, buildings or any other similar forms of screening.
- Calculation has been run using Ordnance Survey 10m DTM height data.
- Earth curvature and light refraction has been included in this calculation.



Legend

- ▲ Selected Viewpoints 1-27
- ▲ Viewpoints captured
- Proposed Turbines
- 25km buffer

Figure 12.14: Initial and Selected Viewpoint Locations

Carrownagowan Wind Farm
Drawn: E. Sikora
Date: 15/09/2020

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N
 ▲ Scale 1:200,000 @A3