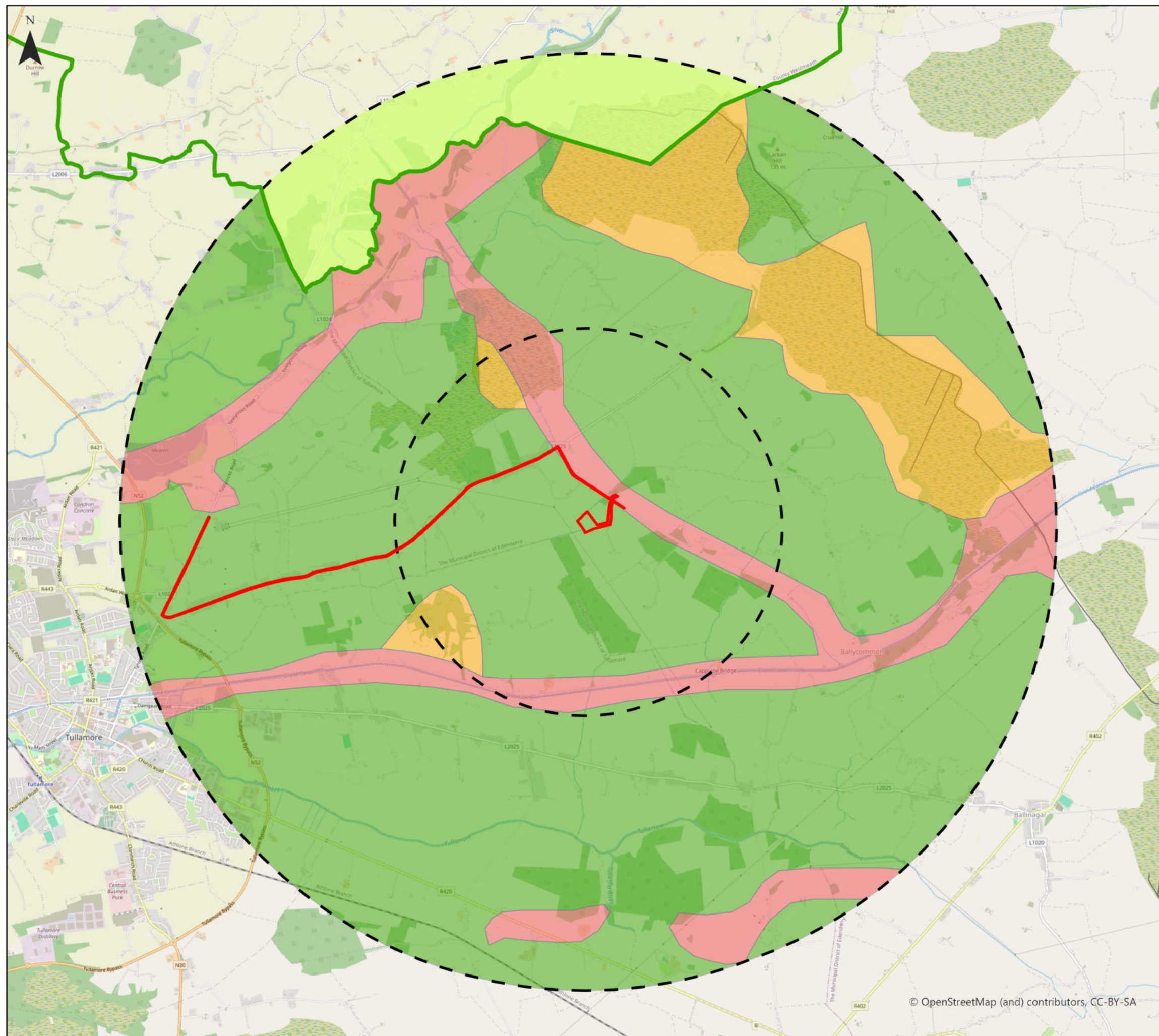




Appendix 1A- Figures



Colehill 110kV Substation Landscape Sensitivity and Landscape Character Areas Figure 1.1



Key

- County Boundary
- Development Boundary w/ Grid Connection
- 2km, 5km Study Areas

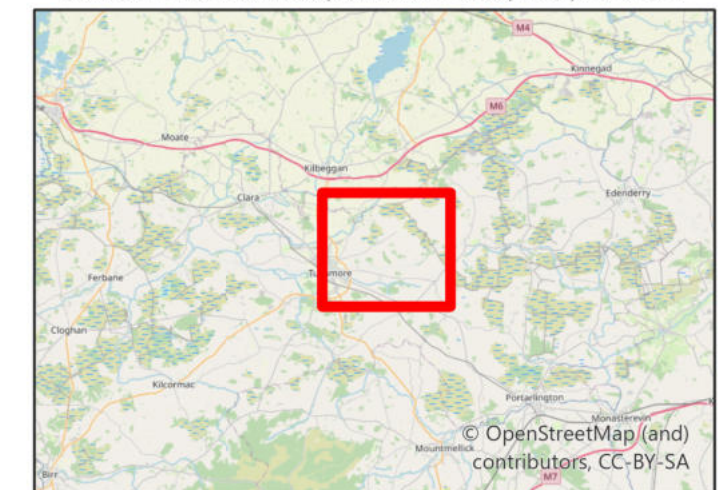
Landscape Sensitivity

- High Sensitivity
- Moderate Sensitivity
- Low Sensitivity

Westmeath Landscape Character Areas

- South Westmeath Eskers

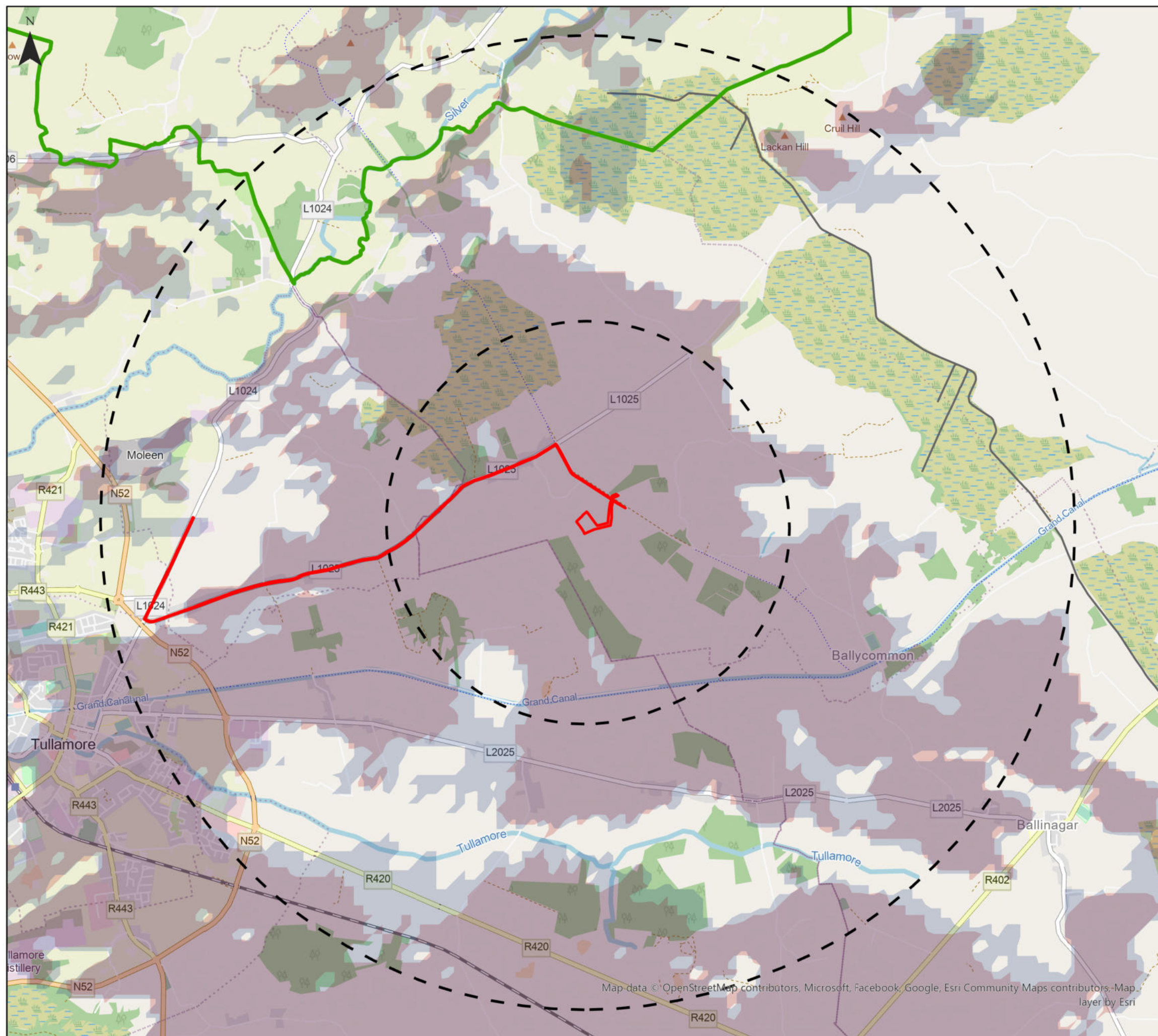
Neo Office Address:
Johnstown Business Centre, Johnstown House, Naas, Co. Kildare



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Date: 18/09/2025
Drawn By: Shaun Dowse
Scale (A3): 1:41,636
Drawing No: NEO01104/0241/A





Colehill 110kV Substation Zone of Theoretical Visibility (ZTV) Figure 1.2

Key

- County Boundary
- Development Boundary w/ Grid Connection
- 2km, 5km Study Areas

Zone of Theoretical Visibility (ZTV)

- Masts and Comms Tower (Upper 6m)
- Control Building and Transformers
- Both Features Theoretically Visible

Notes on ZTV Methodology:

The development has been interpreted as a series of spot heights: points at 12m height represent 2/3 of the total height of the 18m Lightning Masts; and a matrix of points 8.4m high represent the proposed Control Building. Ground levels are sourced from the OSi National DTM 10m Height Data - Series 2 (accuracy +/- 1.5m).

The ZTV was calculated on a worst case scenario i.e. no account has been made for screening effects of woodlands, hedges, homesteads, farm buildings or urban areas etc.

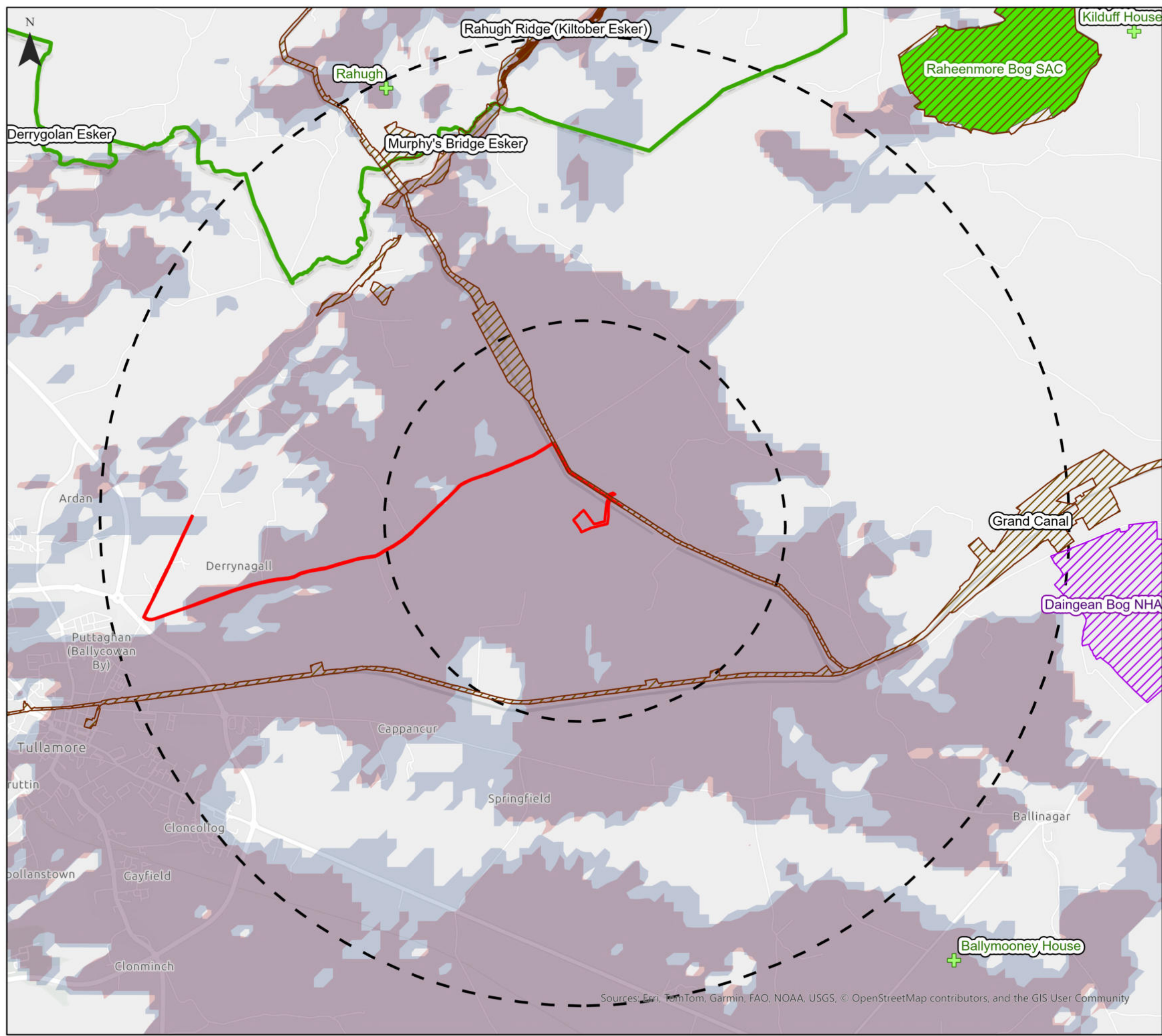
The viewer eye-level for the ZTV is 1.7m as recommended in the GLVIA v3 (Landscape Institute, 2013). The ZTV takes into account earth curvature and atmospheric refraction.

Neo Office Address:
BIA INNOVATOR CAMPUS, Ballygarraun West, Co. Galway, H65 DD86



Date: 18/09/2025
Drawn By: Shaun Dowse
Scale (A3): 1:40,000
Drawing No: NEO01104/025I/A





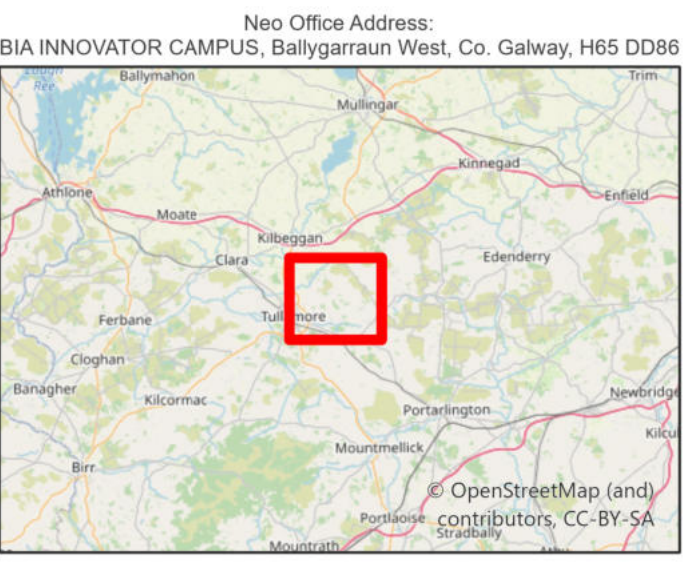
Colehill 110kV Substation
Landscape Designations with
Zone of Theoretical Visibility
Figure 1.3

Key

- County Boundary
- Development Boundary w/ Grid Connection
- 2km, 5km Study Areas
- Natural Heritage Area (NHA)
- Proposed Natural Heritage Area
- Nature Reserve / SAC
- Ancient and Long Established Woodland
- Gardens and Designed Landscapes

Zone of Theoretical Visibility (ZTV)

- Masts and Comms Tower (Upper 6m)
- Control Building and Transformers
- Both Features Theoretically Visible



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Colehill 110kV Substation Viewpoint Locations with Zone of Theoretical Visibility Figure 1.4

Key

 110kV Substation Boundary

 2km, 5km Study Areas

 Viewpoint Locations

Ireland's Cycle Network (Proposed)

 Greenway

 Inter-Urban

 Urban Primary

Local Road Schedule

 Local Primary

 Local Secondary

 Local Tertiary

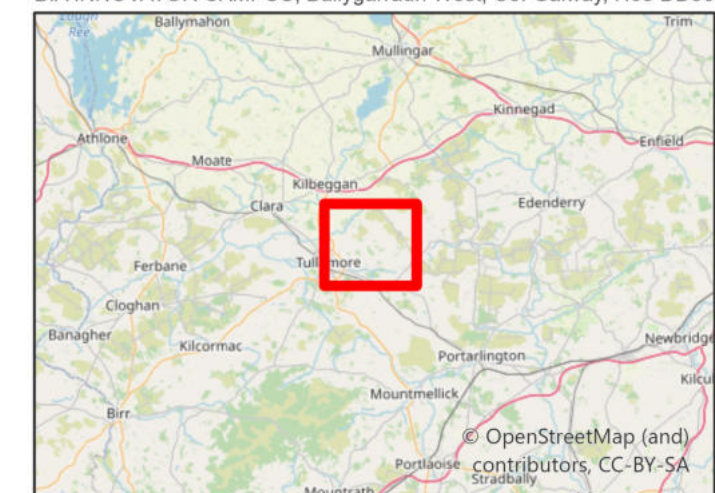
Zone of Theoretical Visibility (ZTV)

 Masts and Comms Tower (Upper 6m)

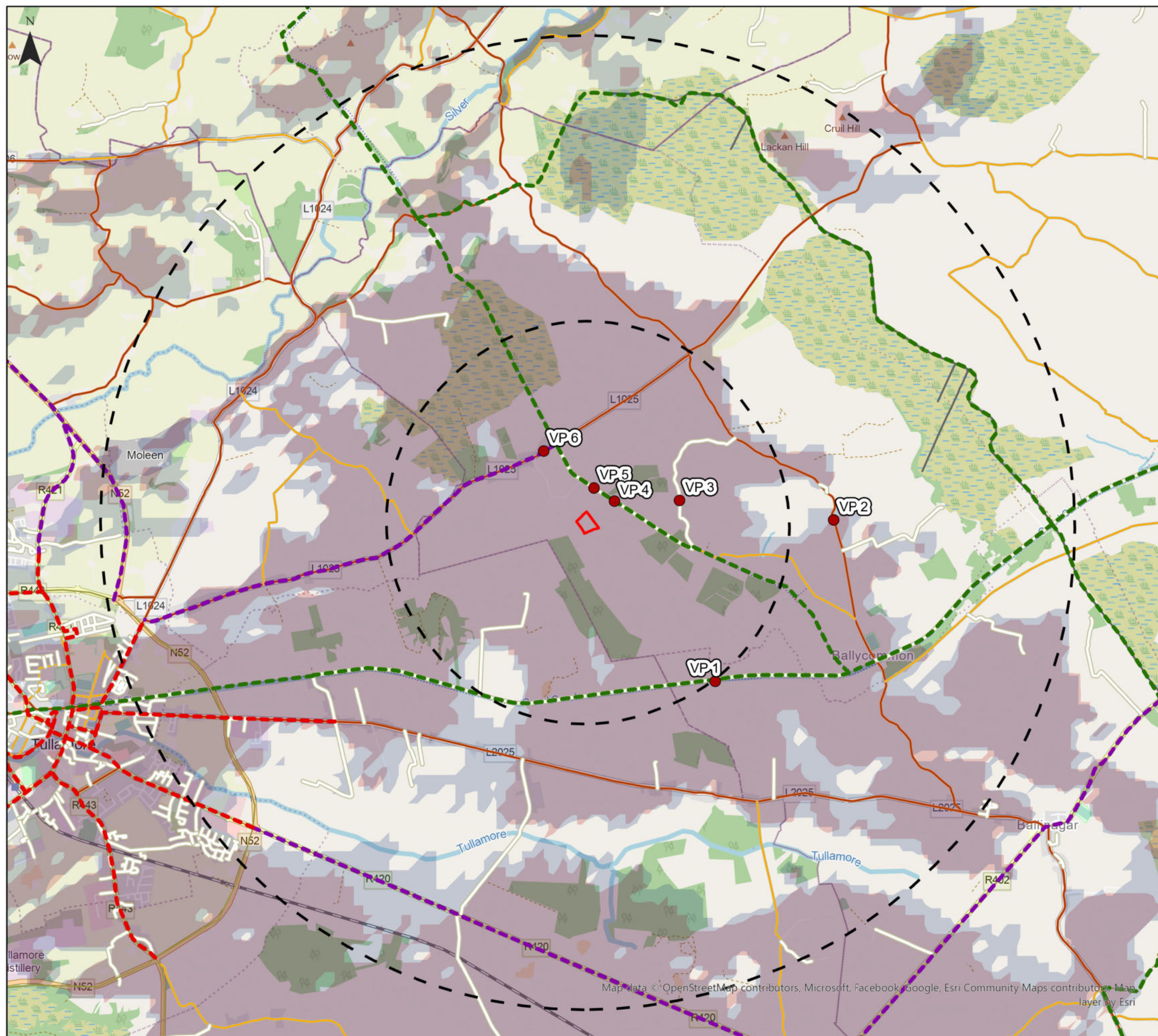
 Control Building and Transformers

 Both Features Theoretically Visible

Neo Office Address:
BIA INNOVATOR CAMPUS, Ballygarraun West, Co. Galway, H65 DD86

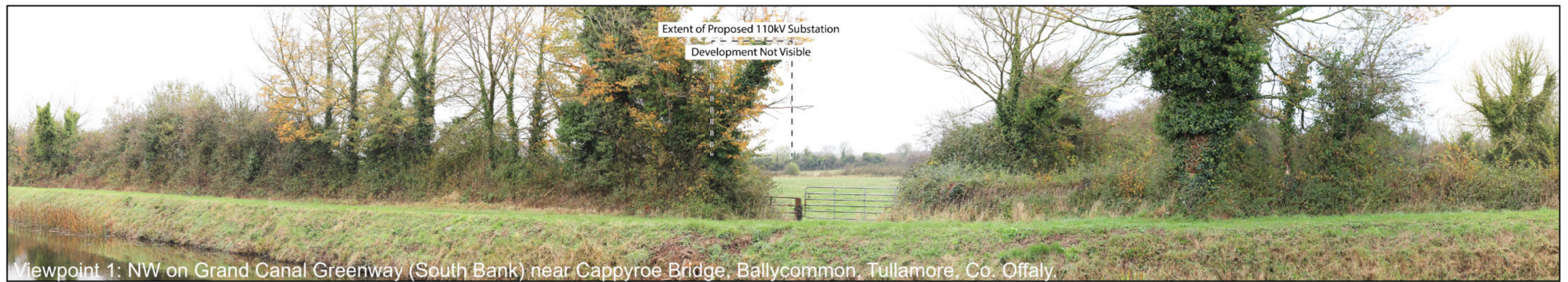


Date: 22/09/2025
Drawn By: Shaun Dowse
Scale (A3): 1:40,000
Drawing No: NEO01104/0271/A



0 5 Kilometres

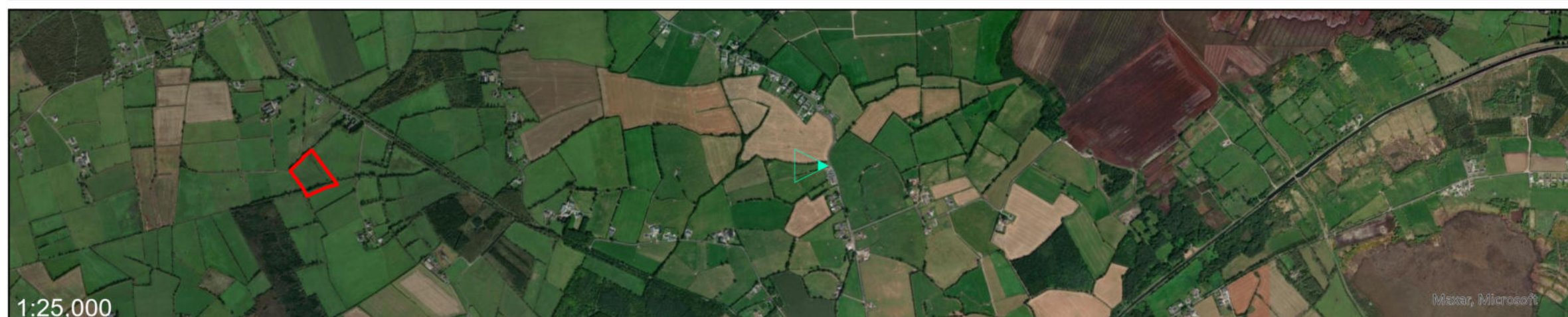
Map data © OpenStreetMap contributors, Microsoft, Facebook, Google, Esri Community Maps contributors, Map layer by Esri



OS Reference: E240737 N225667
 Eye Level: 74.5m
 Direction of View: 320°
 Distance to Site: 2.100km

Horizontal Field of View: 90 Degrees
 Vertical Field of View: 18.7 Degrees
 Paper Size (A3): 420x270mm

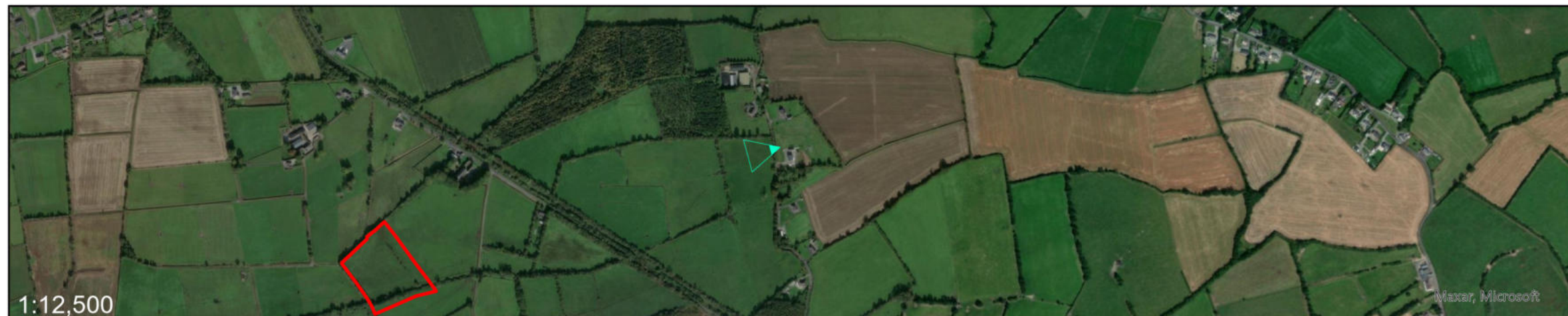
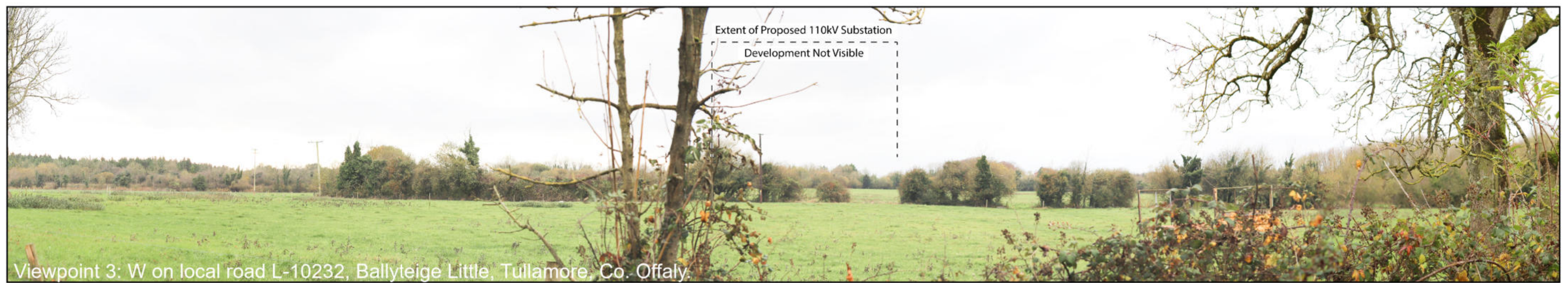
Camera: Canon 6D
 Lens: 50mm
 Camera Height: 1.5m AGL
 View flat at comfortable arm's length



OS Reference: E241979 N227362
 Eye Level: 90.5m
 Direction of View: 270°
 Distance to Site: 2.500km

Horizontal Field of View: 90 Degrees
 Vertical Field of View: 18.7 Degrees
 Paper Size (A3): 420x270mm

Camera: Canon 6D
 Lens: 50mm
 Camera Height: 1.5m AGL
 View flat at comfortable arm's length



OS Reference: E240632 N227566
 Eye Level: 85.5m
 Direction of View: 255°
 Distance to Site: 0.930km

Horizontal Field of View: 90 Degrees
 Vertical Field of View: 18.7 Degrees
 Paper Size (A3): 420x270mm

Camera: Canon 6D
 Lens: 50mm
 Camera Height: 1.5m AGL
 View flat at comfortable arm's length



OS Reference: E239679 N227559
 Eye Level: 81.5m
 Direction of View: 235°
 Distance to Site: 0.330km

Horizontal Field of View: 90 Degrees
 Vertical Field of View: 18.7 Degrees
 Paper Size (A3): 420x270mm

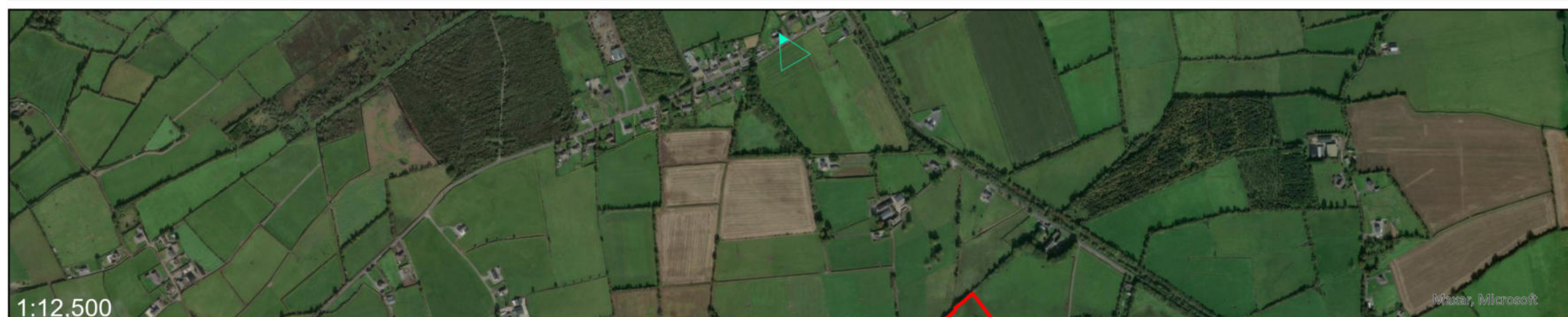
Camera: Canon 6D
 Lens: 50mm
 Camera Height: 1.5m AGL
 View flat at comfortable arm's length



OS Reference: E239464 N227697
Eye Level: 79.5m
Direction of View: 195°
Distance to Site: 0.290km

Horizontal Field of View: 90 Degrees
Vertical Field of View: 18.7 Degrees
Paper Size (A3): 420x270mm

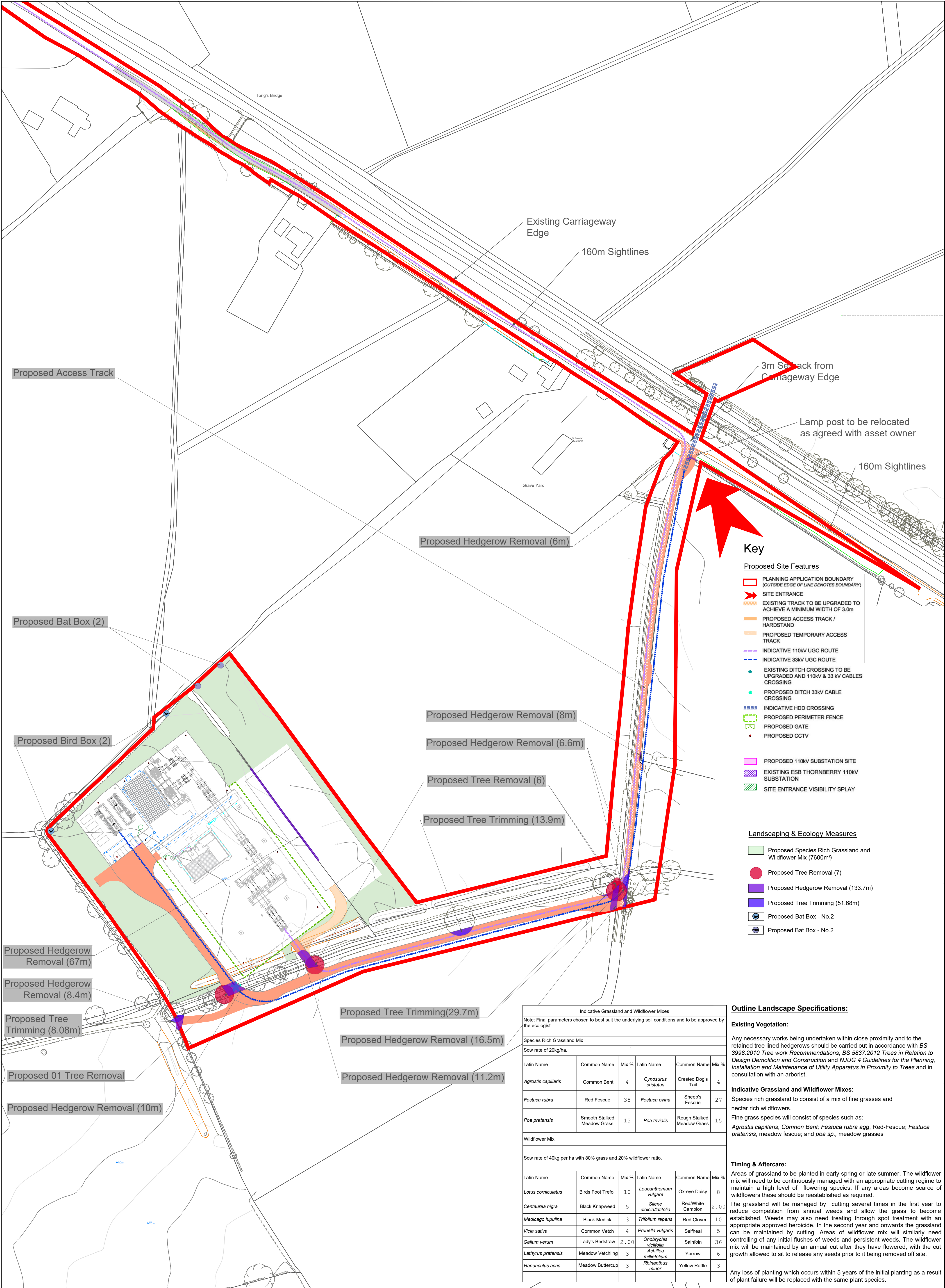
Camera: Canon 6D
Lens: 50mm
Camera Height: 1.5m AGL
View flat at comfortable arm's length



OS Reference: E238937 N228085
Eye Level: 79.5m
Direction of View: 150°
Distance to Site: 0.780km

Horizontal Field of View: 90 Degrees
Vertical Field of View: 18.7 Degrees
Paper Size (A3): 420x270mm

Camera: Canon 6D
Lens: 50mm
Camera Height: 1.5m AGL
View flat at comfortable arm's length



G	24/11/25	Landscape and Ecology Management Plan Updates
F	07/10/25	Landscape and Ecology Management Plan Updates
E	06/10/25	Landscape and Ecology Management Plan Updates
D	01/10/25	Landscape and Ecology Management Plan Updates
C	19/09/25	Landscape and Ecology Management Plan Updates
B	12/06/25	Landscape and Ecology Management Plan

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Do not scale from drawing- use dimensioned figures only

Project: Colehill 110Kv Substation
Client: RES Ltd.
Drawing: Landscape & Ecology Management Plan

Project No.: NEO01104
Drawing No. : NEO01104_016
Drawn:LP
Checked: KB
Approved:PN
Scale: 1:1000
Date: 24th November 2025

Revision:
G



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Figure: 1.9
Viewpoint 4 - View looking West from the Ballyteige Little Road, East of the Proposed 110kV Substation.

