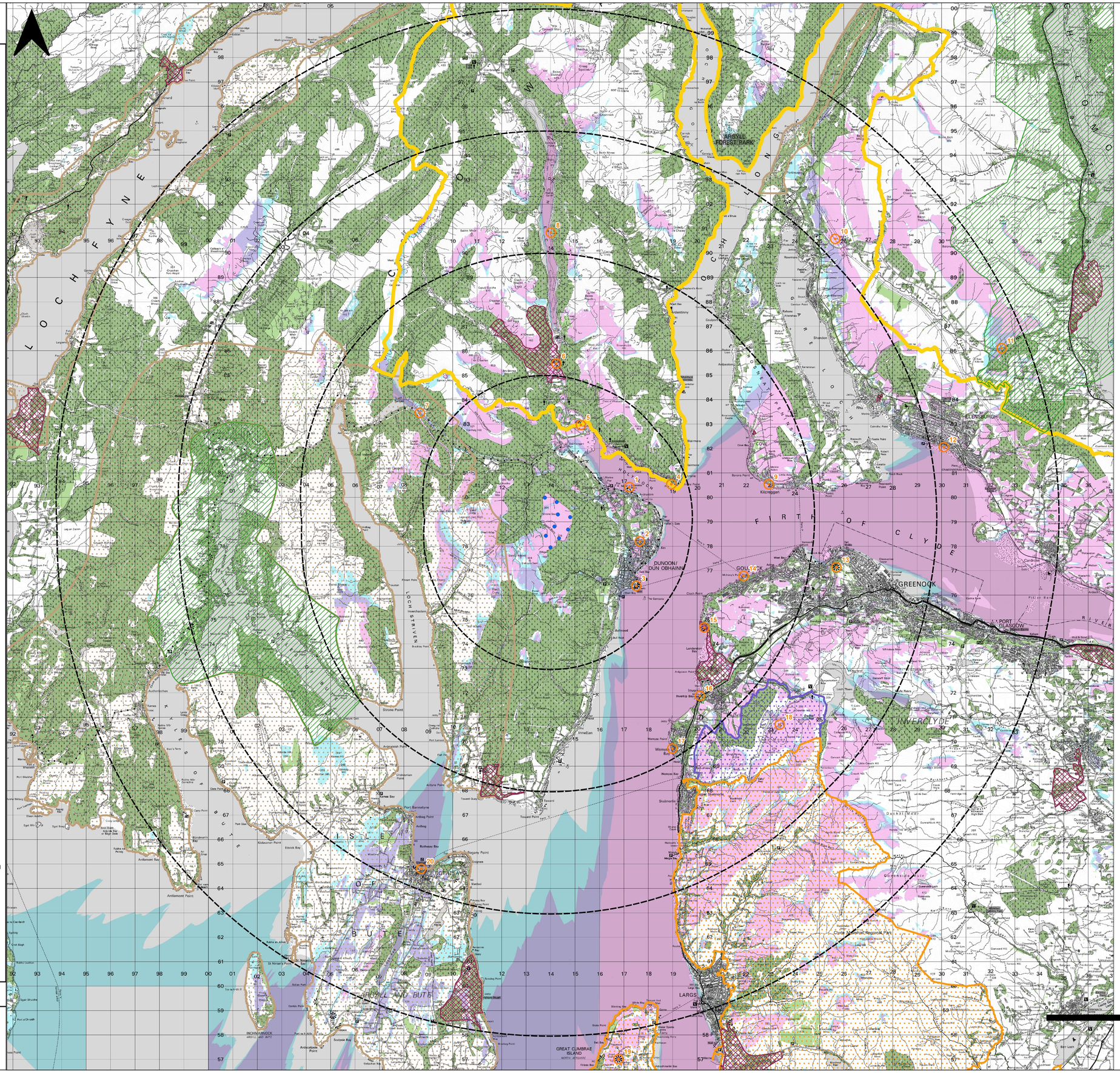
Project Name: Giant's Burn Wind Farm
Document Title: Figure 4.2 Detailed ZTV Study
Scale: 1:75,000 @ A1

Key:

- Proposed Turbines
- Distance from site (5, 10, 15, 20km)
- Proposed Viewpoints
- Loch Lomond and the Trossachs National Park
- National Scenic Areas
- Gardens and Designed Landscapes
- Area of Panoramic Quality
- Special Landscape Area
- Local Landscape Area
- Woodland (modelled at 15m high)

Zone of Theoretical Visibility (Blade Tip - 200m)

- 1-3 turbines
- 4-6 turbines
- 7-9 turbines



NOTES:
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m resolution.

FIGURE DATA:
Layout Version: 04-scoping
Object Height: 200m
Observer Height: 2m
DTM/DSM: 0020-T5-DSM

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Drawing By: Abseline LLP

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Version:
Author: MF
Checked By: ME
Approved By: MF
Date: 08/09/2023

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