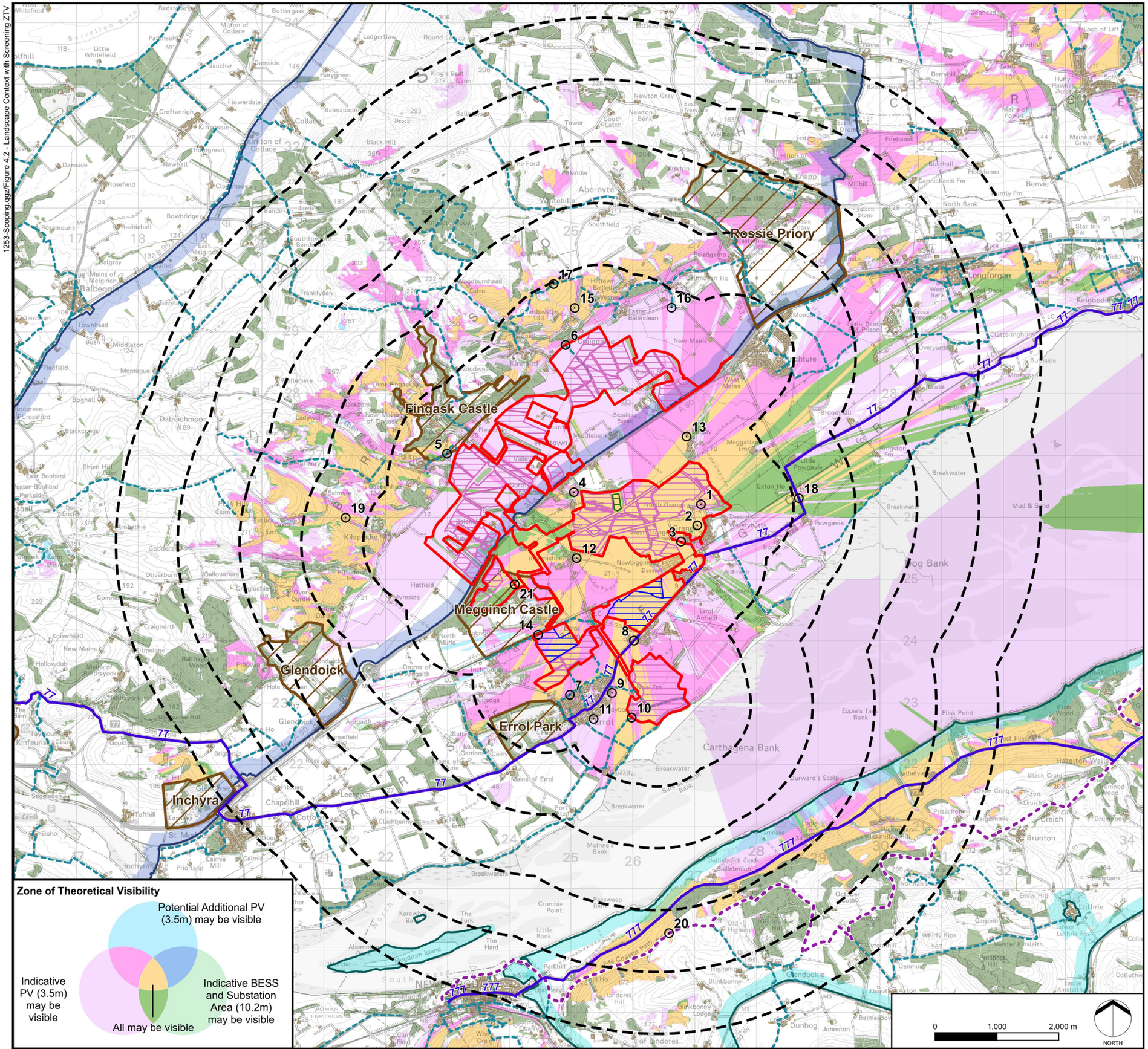
1253-Scoping.qgz/Figure 4.2 - Landscape Context with Screening ZTV



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AUKERA

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an RSK company

HALFWAY ENERGY PARK

FIGURE 4.2

Landscape Context With Screening Zone of Theoretical Visibility

KEY

- Site Boundary
- Indicative PV Area
- Potential Additional Option for PV
- Indicative Preferred BESS and Substation Area
- Distance Radii from Site (1, 2, 3, 4, 5km)
- Potential Viewpoints
- Buildings
- Woodland
- Sidlaw Hills Local Landscape Area
- Tay Coast Local Landscape Area
- Gardens and Designed Landscapes
- Core Paths
- Fife Coastal Path
- National Cycle Network Route
- Regional Route, Link Route or Other Cycle Route

FIGURE DATA:
This figure has been based on the following data:
Layout file: D002-obvs-Panels-T5-4km.shp, D002-obvs-OptionalPanels-T5-4km.shp, D002-obvs-BESS_Substn-T5-4km.shp
Terrain data: T5-DTM.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m

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, and is based on the maximum heights of the infrastructure.
A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of buildings and woodland are 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^2 resolution.
Projected Coordinate System: OSGB36 / British National Grid

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