

CHANGING THE VIEW Visual Impact of Existing Wirescape

Figure 3.2a: SPEN Network in Loch Lomond and the Trossachs National Park

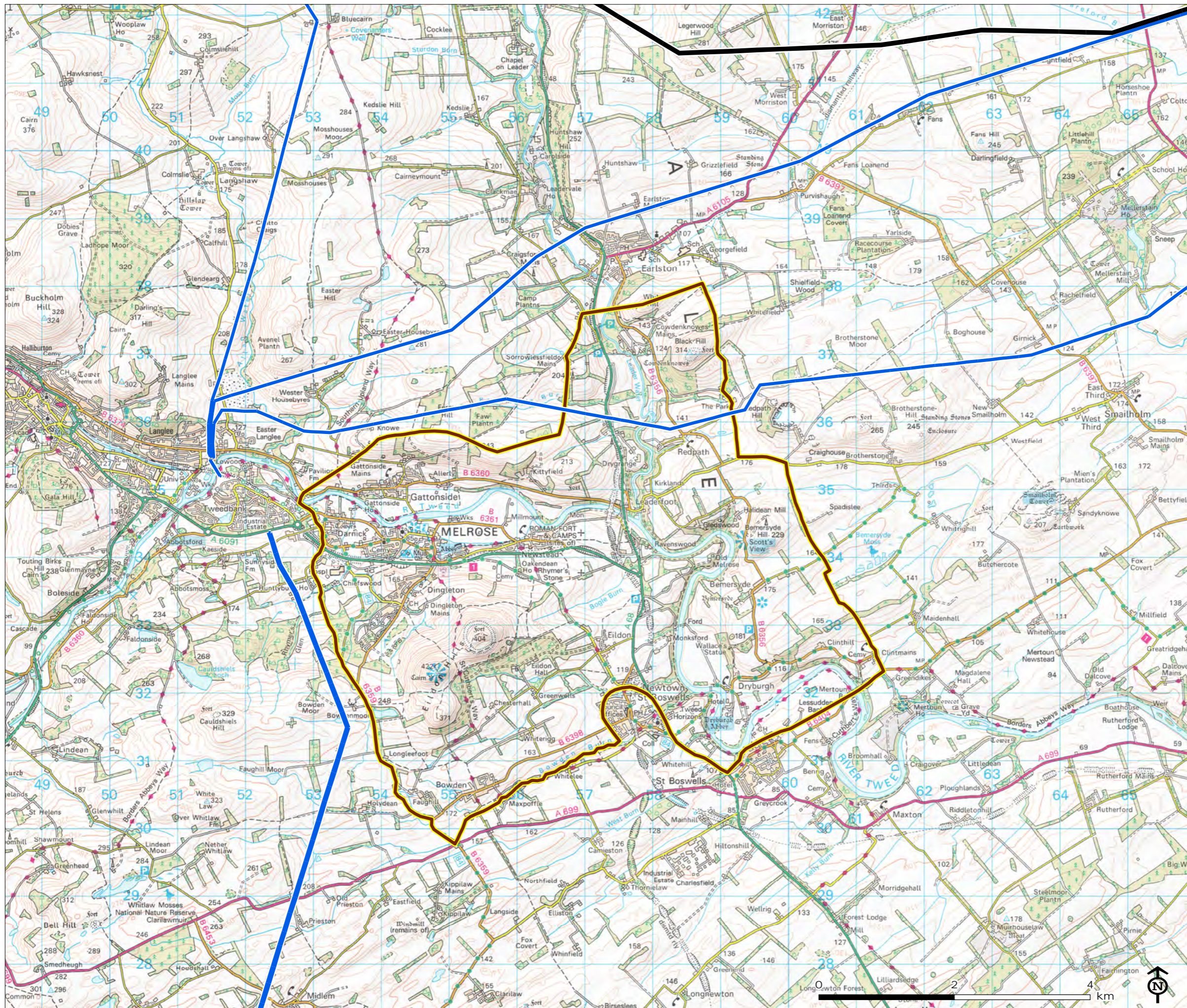
- National Park boundary
 - National Scenic Area
 - 1: Ben Nevis and Glen Coe
 - 2: Loch Rannoch and Glen Lyon
 - 3: River Earn (Comrie to St Fillans)
 - 4: Loch Lomond
 - 5: The Trossachs
 - 6: Kyles of Bute
- SPEN overhead line
- 132kV
 - 275kV
- SHET overhead line
- 132kV

Map Scale @ A3: 1:240,000



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Figure 3.2b: SPEN Network in
Eildon and Leaderfoot National
Scenic Area










- Eildon and Leaderfoot National Scenic Area
- SPEN overhead line
- 132kV
- 400kV

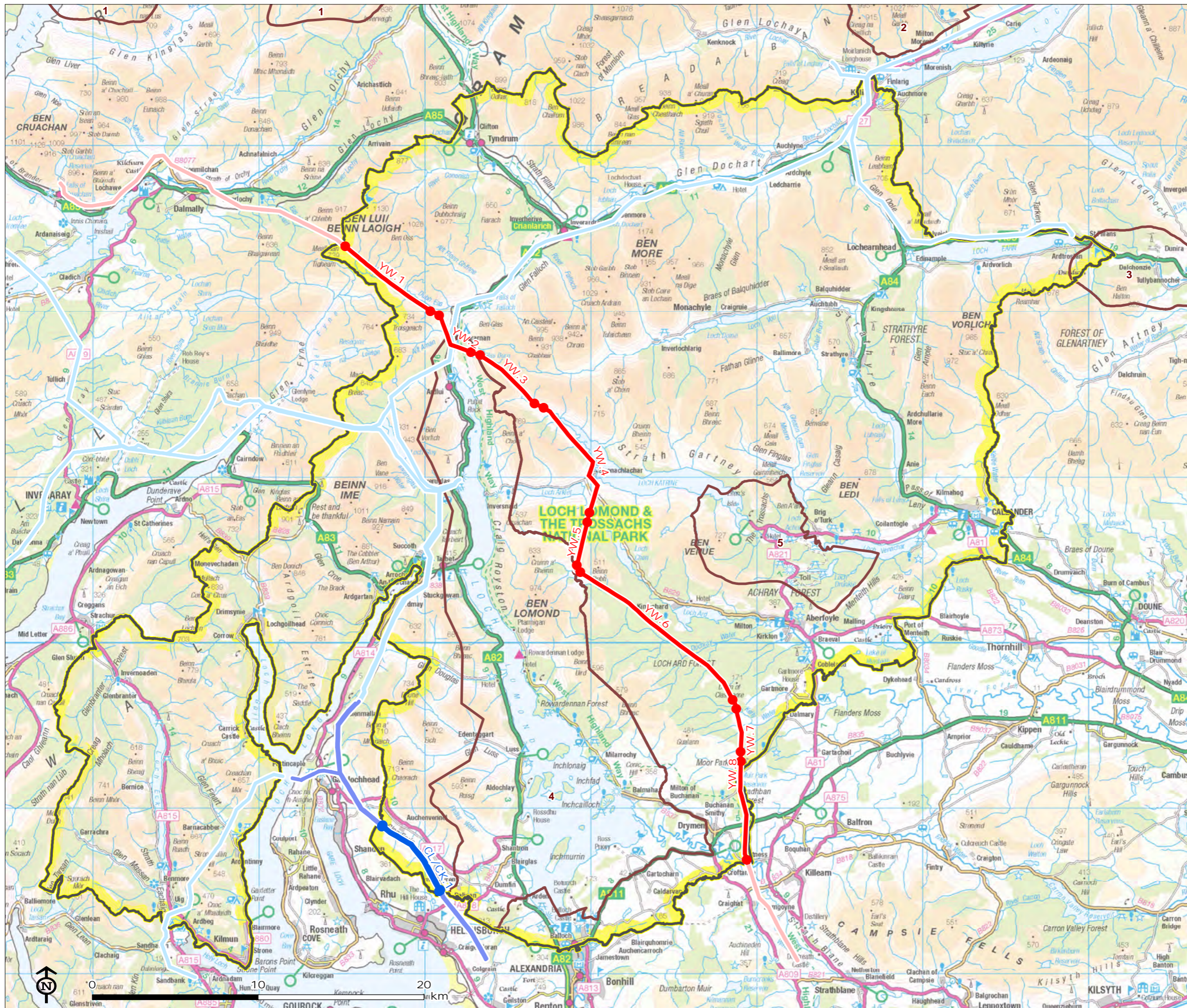
Map Scale @ A3: 1:55,000



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Figure 3.3a: Assessment Sections in Loch Lomond and the Trossachs National Park

-  National Park boundary
-  National Scenic Area
- 1: Ben Nevis and Glen Coe
- 2: Loch Rannoch and Glen Lyon
- 3: River Earn (Comrie to St Fillans)
- 4: Loch Lomond
- 5: The Trossachs
- Assessed overhead line sections
-  132kV overhead line
-  275kV overhead line
- Other SPEN overhead line
-  132kV
-  275kV
- SHET overhead line
-  132kV







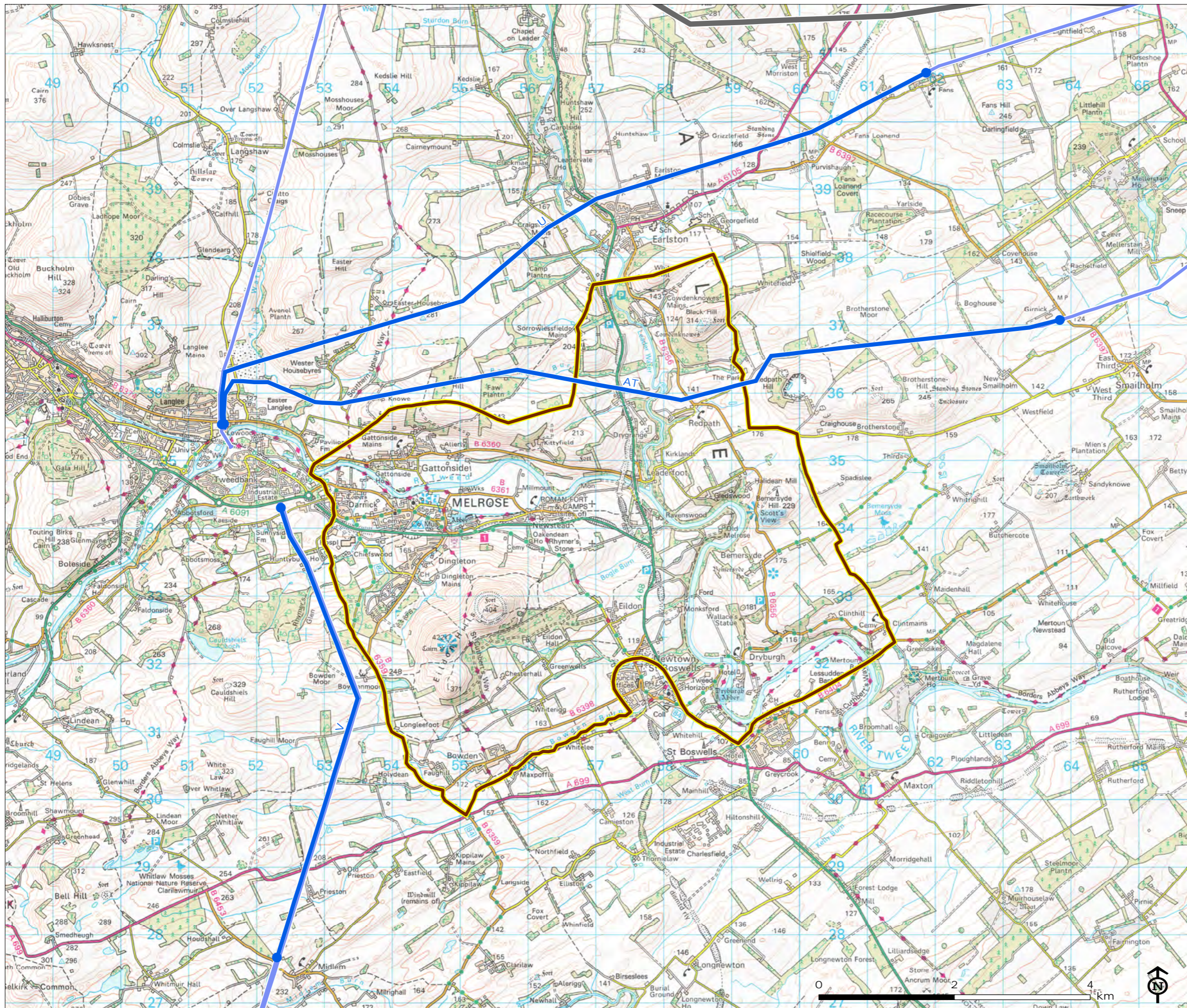
Map Scale @ A3: 1:225,000



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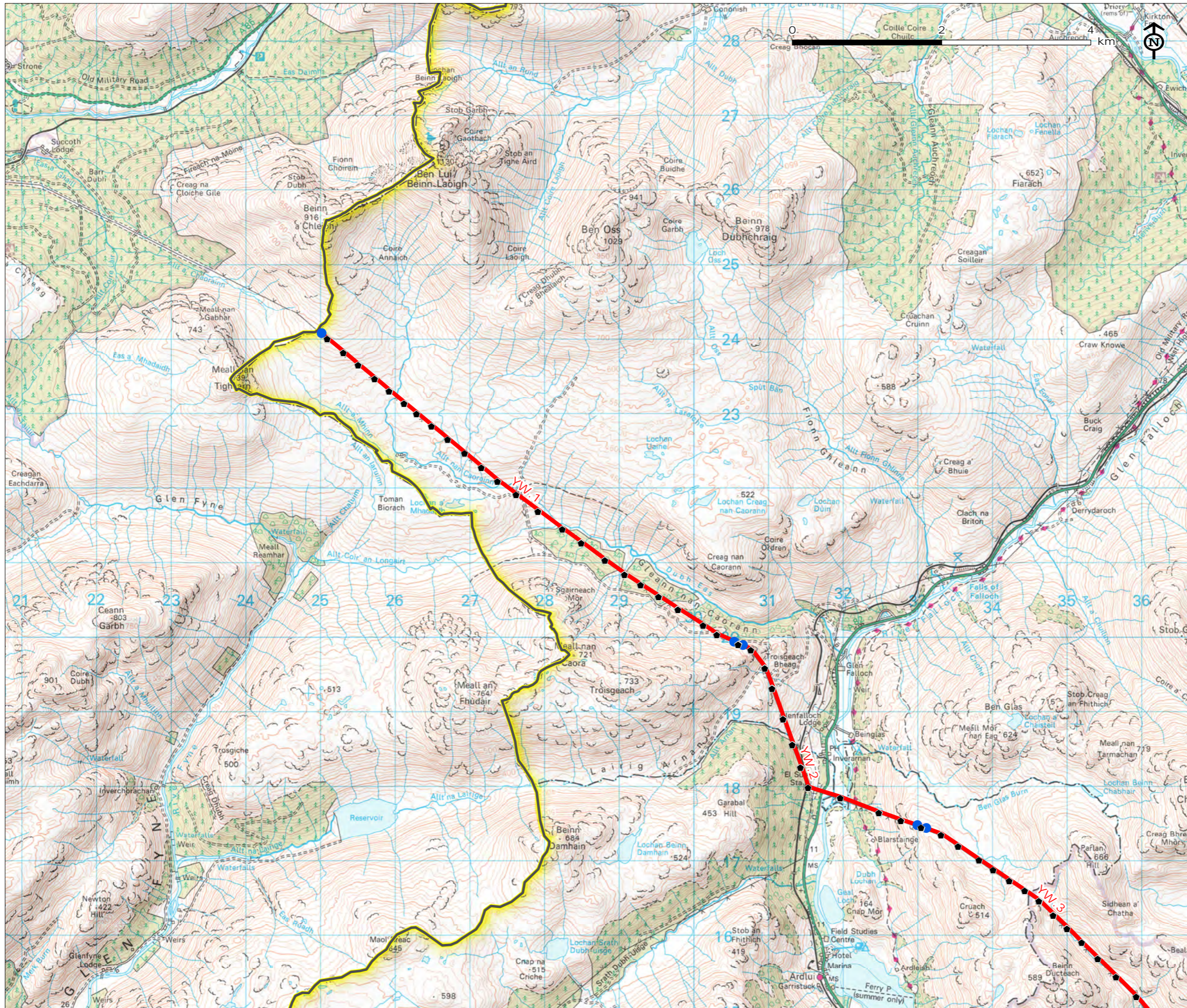
Figure 3.3b: Assessment
Sections in Eildon and
Leaderfoot NSA

-  Eildon and Leaderfoot National Scenic Area
-  Assessed 132kV overhead powerline sections
- Other SPEN overhead line
 -  132kV
 -  400kV



Map Scale @ A3: 1:55,000

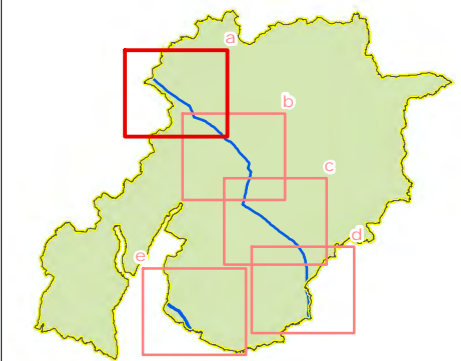




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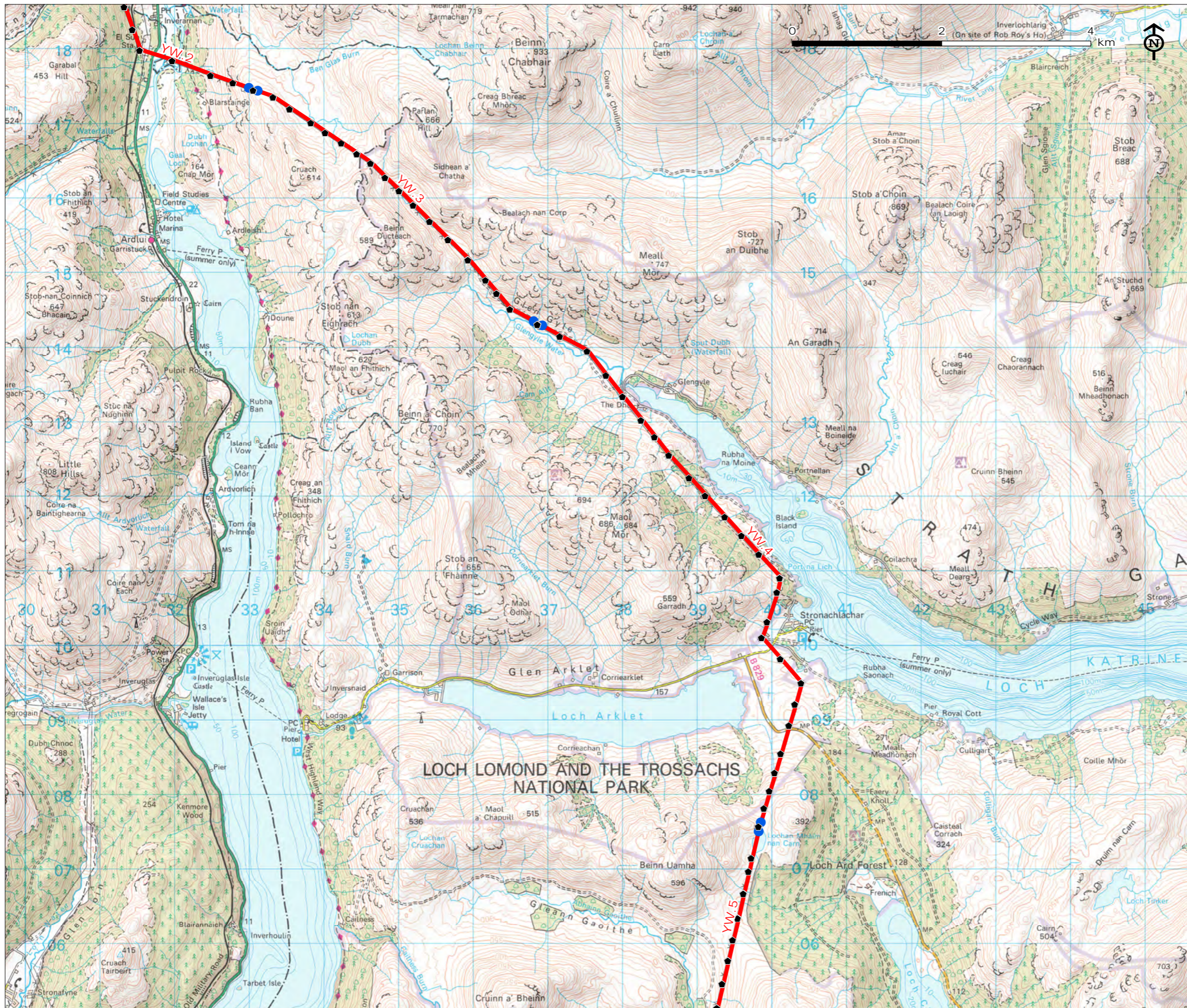
Figure 3.4a: Overhead Line Sections in Loch Lomond and the Trossachs National Park

- National Park boundary
- ● Assessed 275kV overhead line
- Tower






Map Scale @ A3: 1:50,000

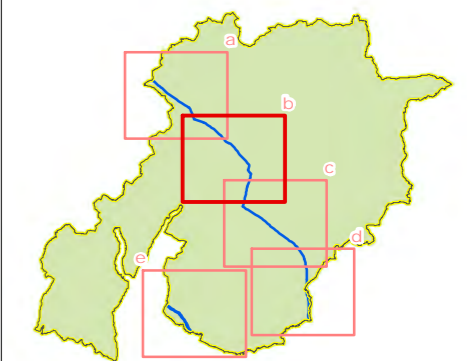




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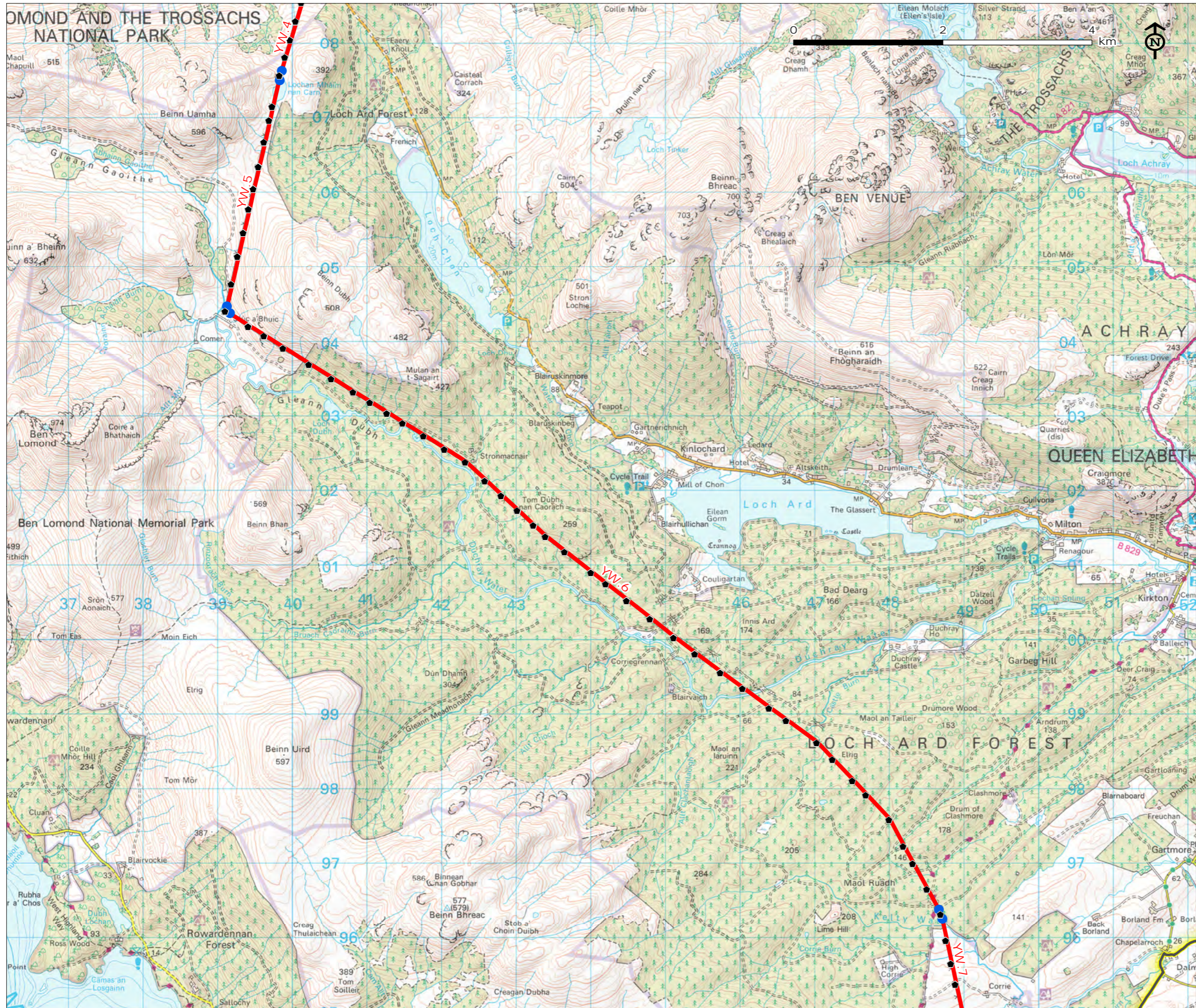
Figure 3.4b: Overhead Line Sections in Loch Lomond and the Trossachs National Park

-  National Park boundary
-  Assessed 275kV overhead line
-  Tower



Map Scale @ A3: 1:50,000

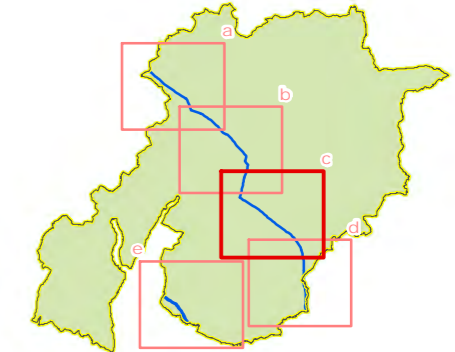




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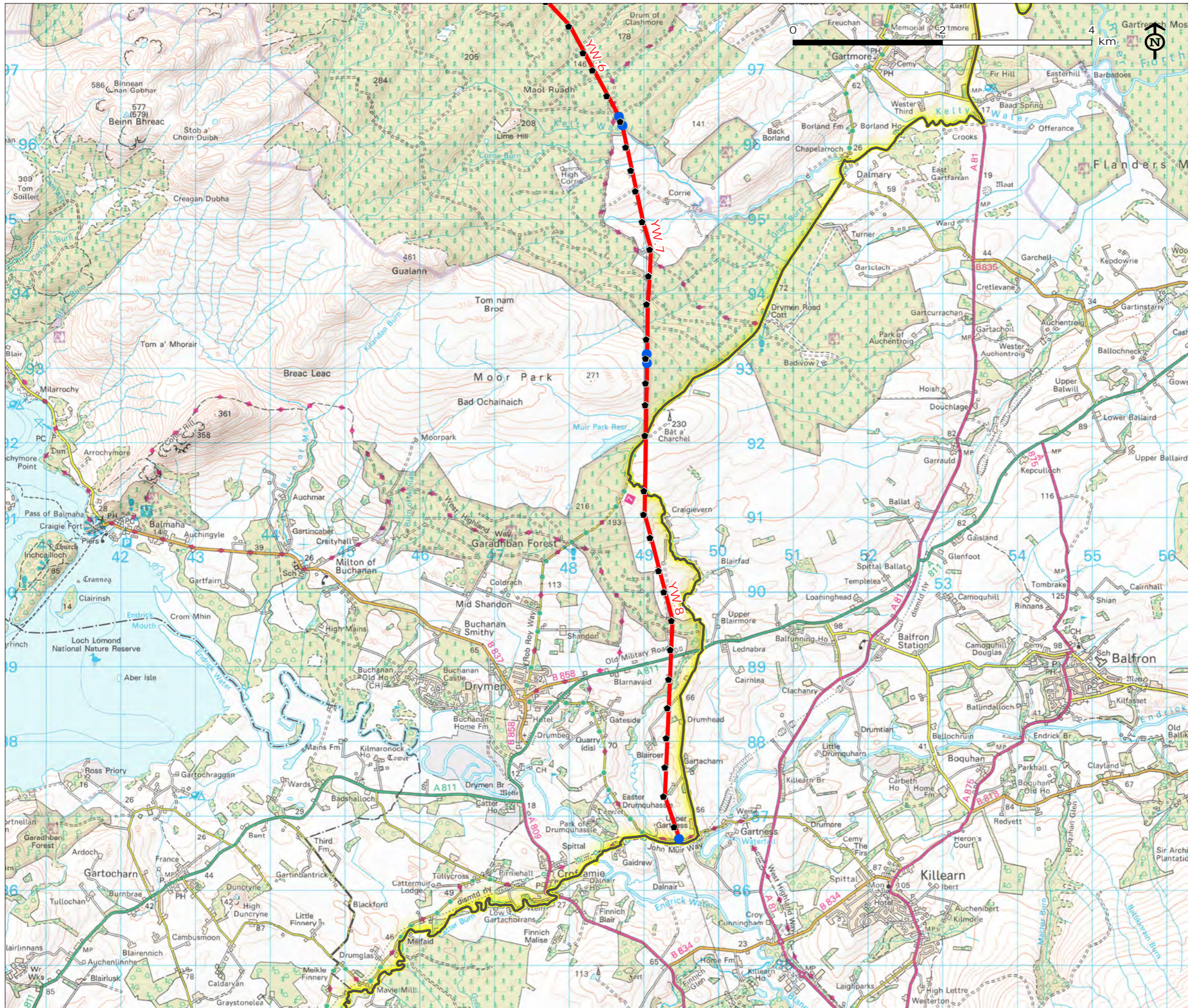
Figure 3.4c: Overhead Line Sections in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Tower



Map Scale @ A3: 1:50,000

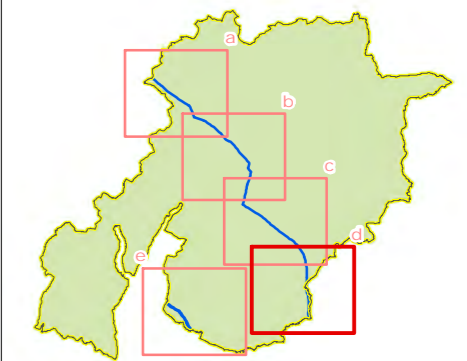




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Figure 3.4d: Overhead Line Sections in Loch Lomond and the Trossachs National Park

- National Park boundary
- ● Assessed 275kV overhead line
- Tower



Map Scale @ A3: 1:50,000

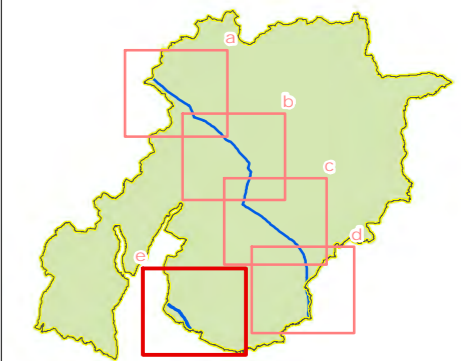




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Figure 3.4e: Overhead Line Sections in Loch Lomond and the Trossachs National Park

- National Park boundary
- — Assessed 132kV overhead line
- Tower

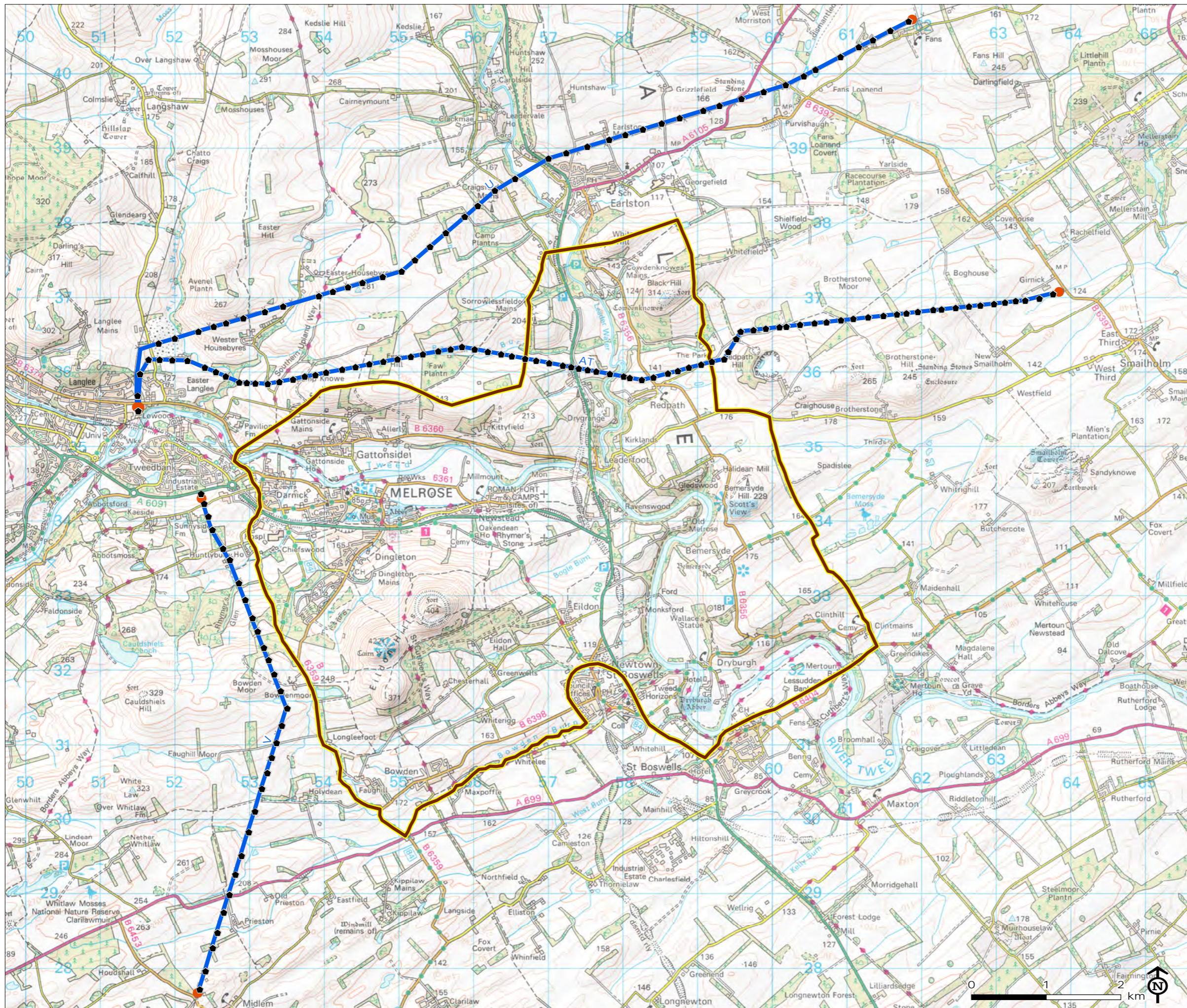


Map Scale @ A3: 1:50,000



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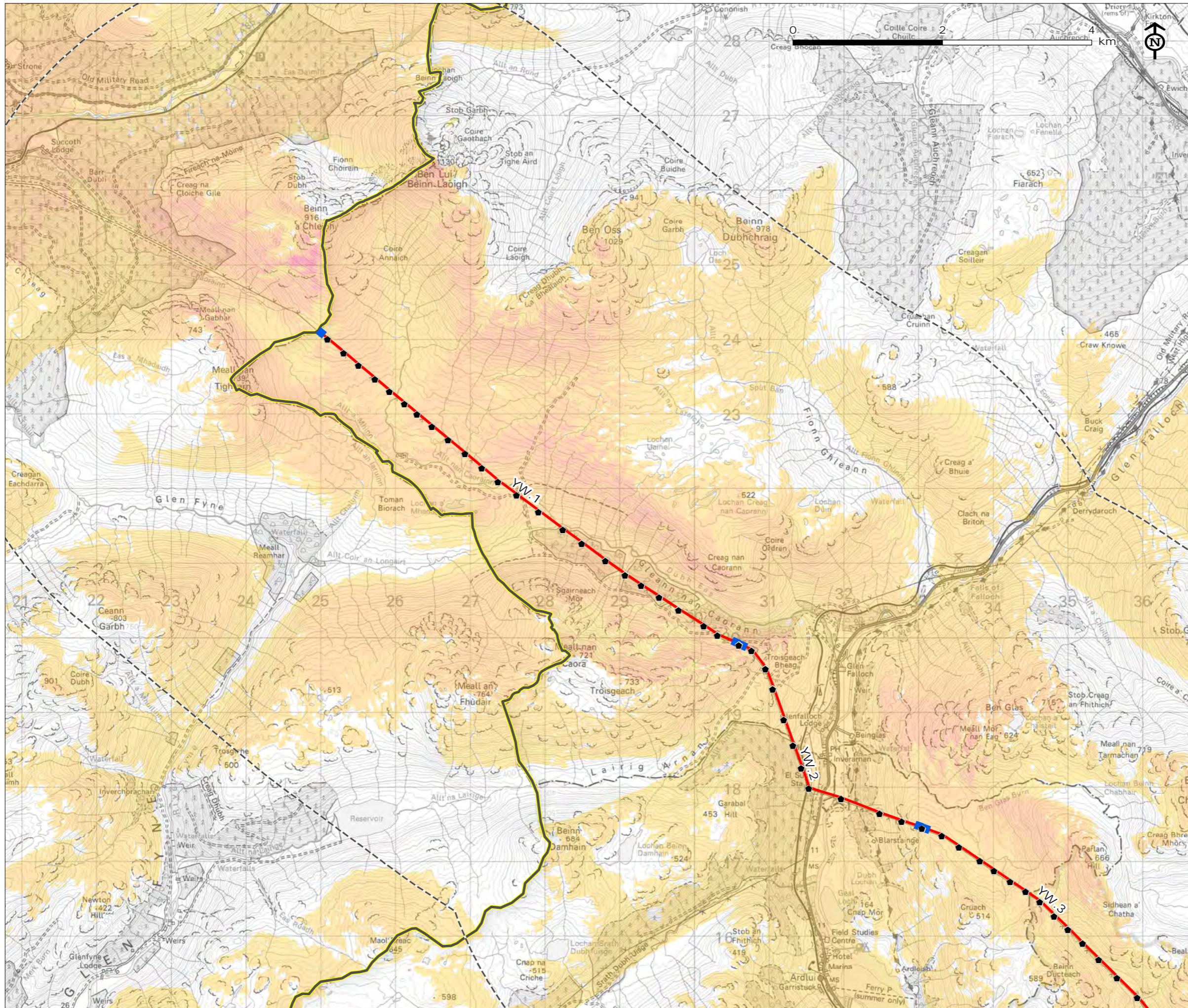
Figure 3.5: Overhead Line Sections in Eildon and Leaderfoot NSA



- Eildon and Leaderfoot National Scenic Area
- ● Assessed 132kV overhead line
- Tower

Map Scale @ A3: 1:50,000



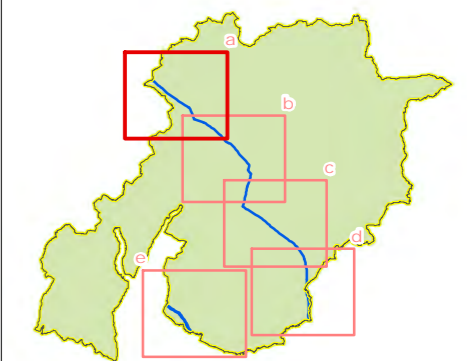


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Figure 3.6a: Zone of Theoretical Visibility of Lines in Loch Lomond and the Trossachs National Park

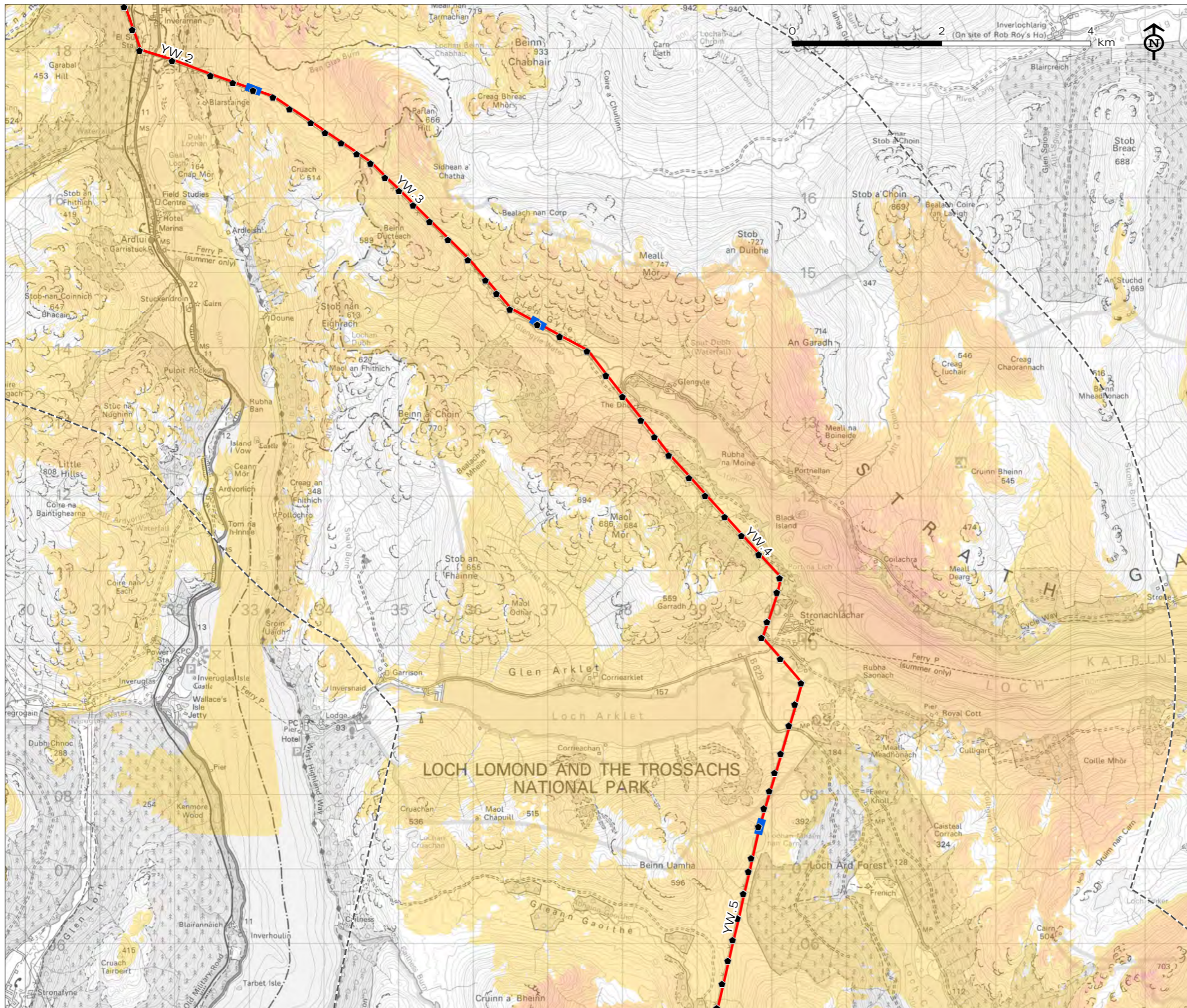
- National Park boundary
 - Assessed 275kV overhead line
 - 5km from overhead line
 - Tower
- Theoretical number of visible towers
-
- High
 - Low

Note
 The ZTV is calculated to tower height:
 132kV steel tower: 35m
 275kV steel tower: 40m
 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 Dec 2014)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.



Map Scale @ A3: 1:50,000





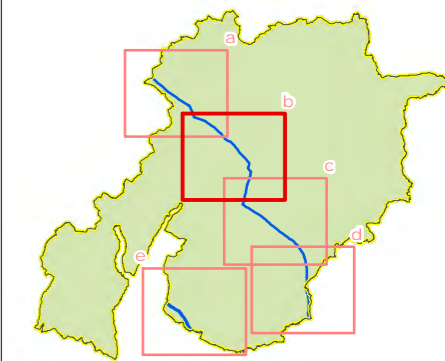
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Figure 3.6b: Zone of Theoretical Visibility of Lines in Loch Lomond and the Trossachs National Park

- National Park boundary
 - Assessed 275kV overhead line
 - 5km from overhead line
 - Tower
- Theoretical number of visible towers
- High

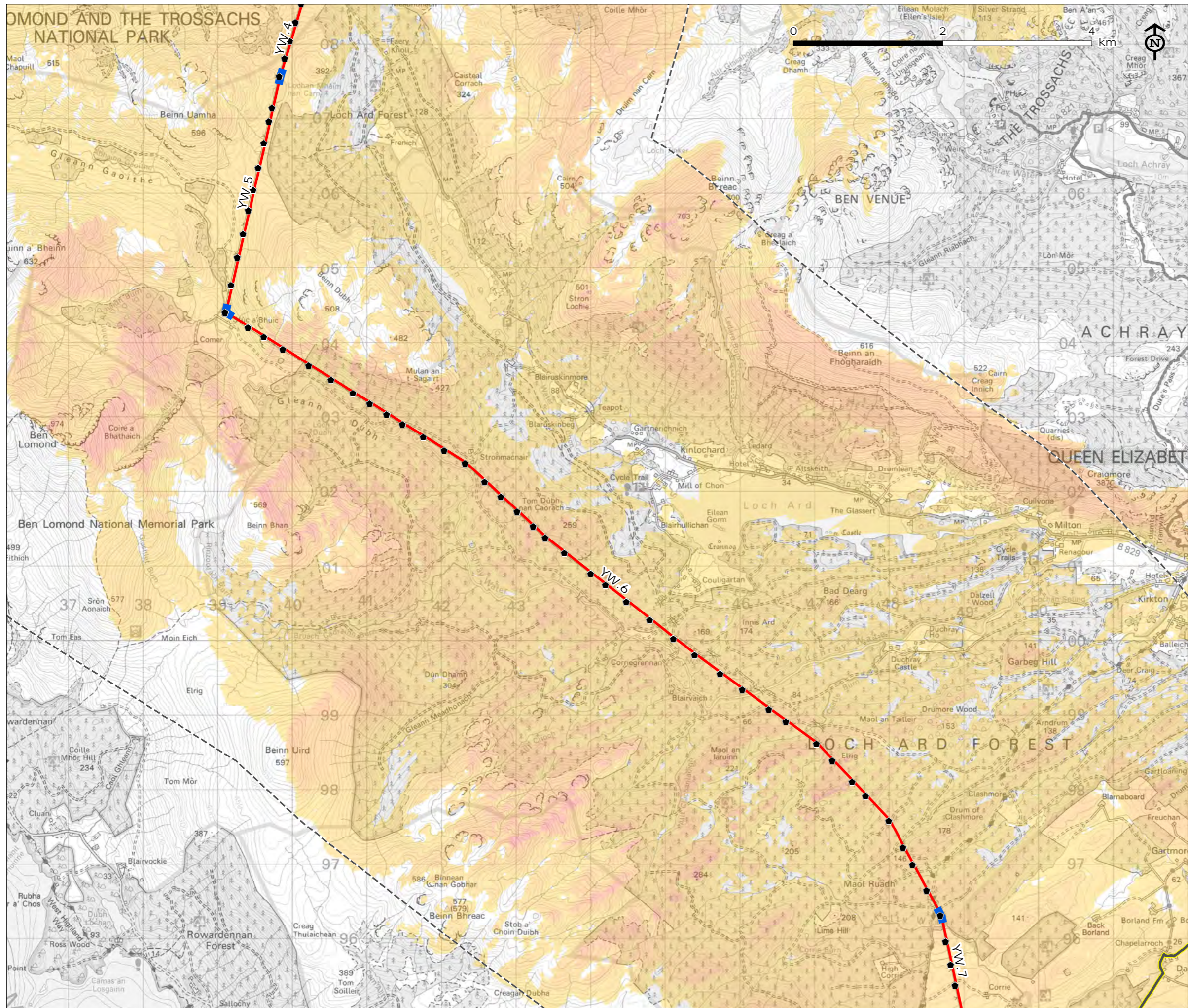
Low

Note
 The ZTV is calculated to tower height:
 132kV steel tower: 35m
 275kV steel tower: 40m
 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 Dec 2014)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.



Map Scale @ A3: 1:50,000



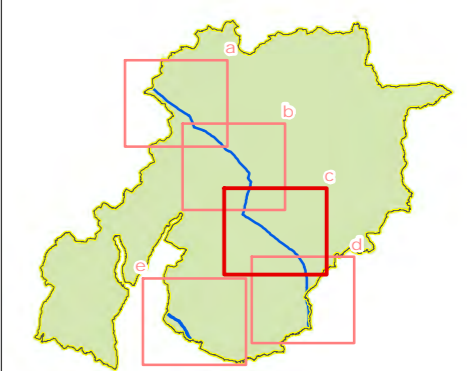


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Figure 3.6c: Zone of Theoretical Visibility of Lines in Loch Lomond and the Trossachs National Park

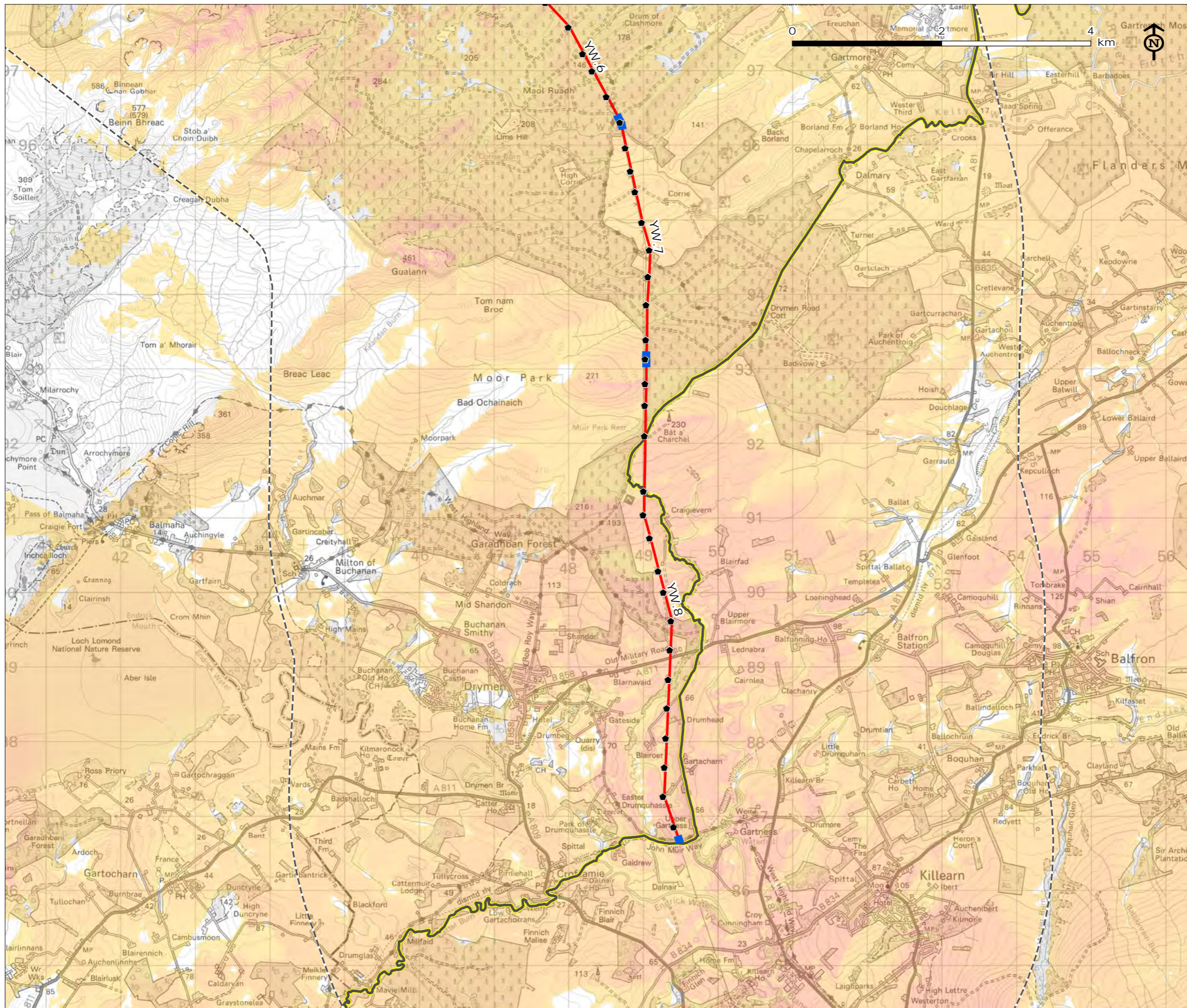
- National Park boundary
 - Assessed 275kV overhead line
 - 5km from overhead line
 - Tower
- Theoretical number of visible towers
- High
- Low

Note
 The ZTV is calculated to tower height:
 132kV steel tower: 35m
 275kV steel tower: 40m
 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 Dec 2014)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.



Map Scale @ A3: 1:50,000





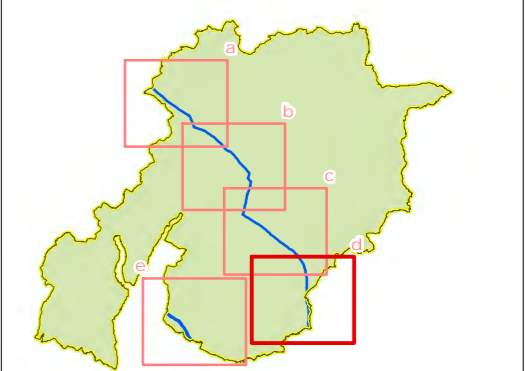
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Figure 3.6d: Zone of Theoretical Visibility of Lines in Loch Lomond and the Trossachs National Park

- National Park boundary
 - Assessed 275kV overhead line
 - 5km from overhead line
 - Tower
- Theoretical number of visible towers
- High

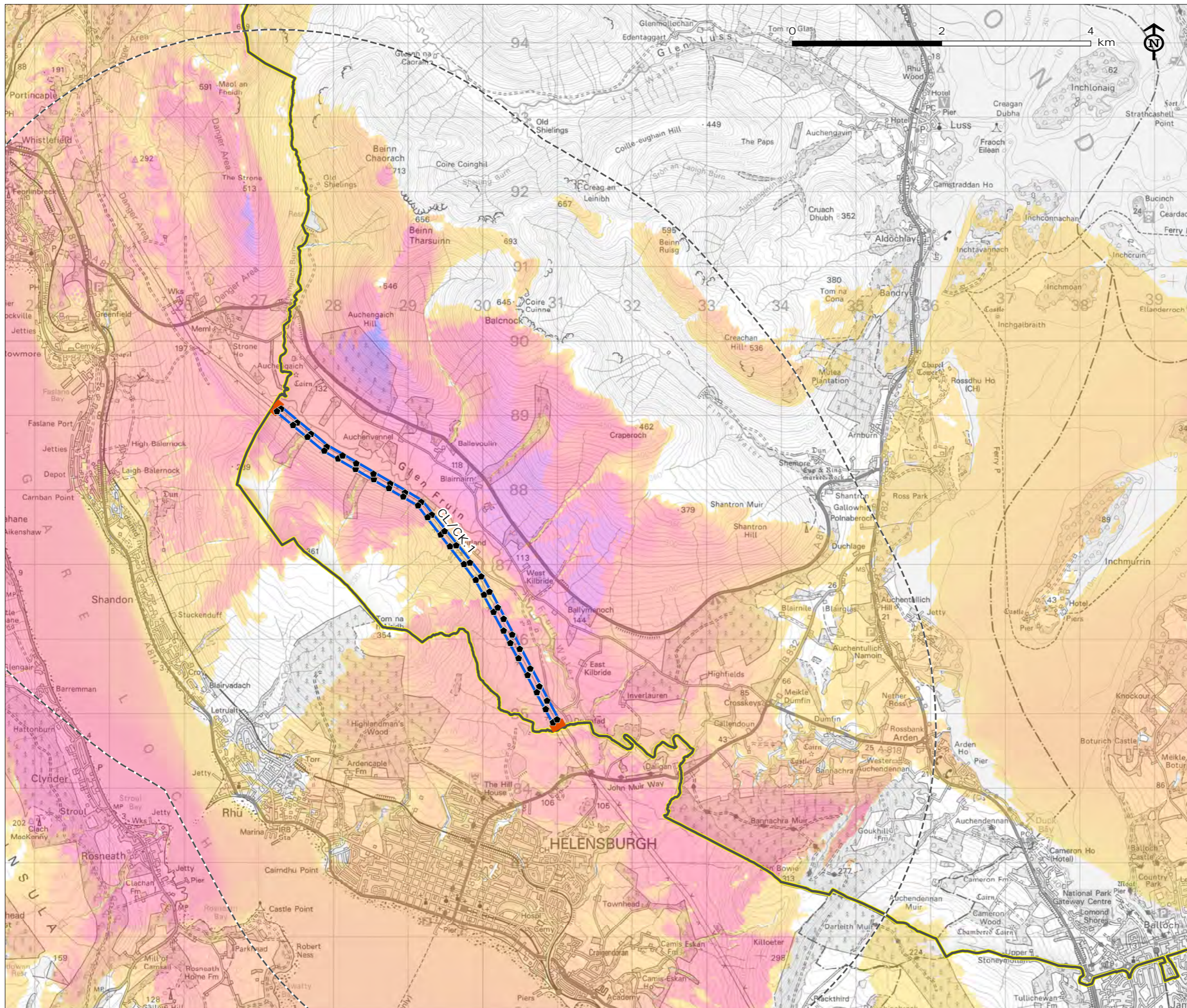
Low

Note
 The ZTV is calculated to tower height:
 132kV steel tower: 35m
 275kV steel tower: 40m
 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 Dec 2014)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.



Map Scale @ A3: 1:50,000



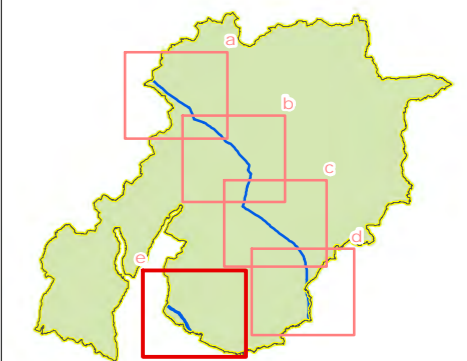


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Figure 3.6e: Zone of Theoretical Visibility of Lines in Loch Lomond and the Trossachs National Park

- National Park boundary
 - Assessed 132kV overhead line
 - 5km from overhead line
 - Tower
- Theoretical number of visible towers
-
- High
-
- Low

Note
 The ZTV is calculated to tower height:
 132kV steel tower: 35m
 275kV steel tower: 40m
 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 Dec 2014)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.

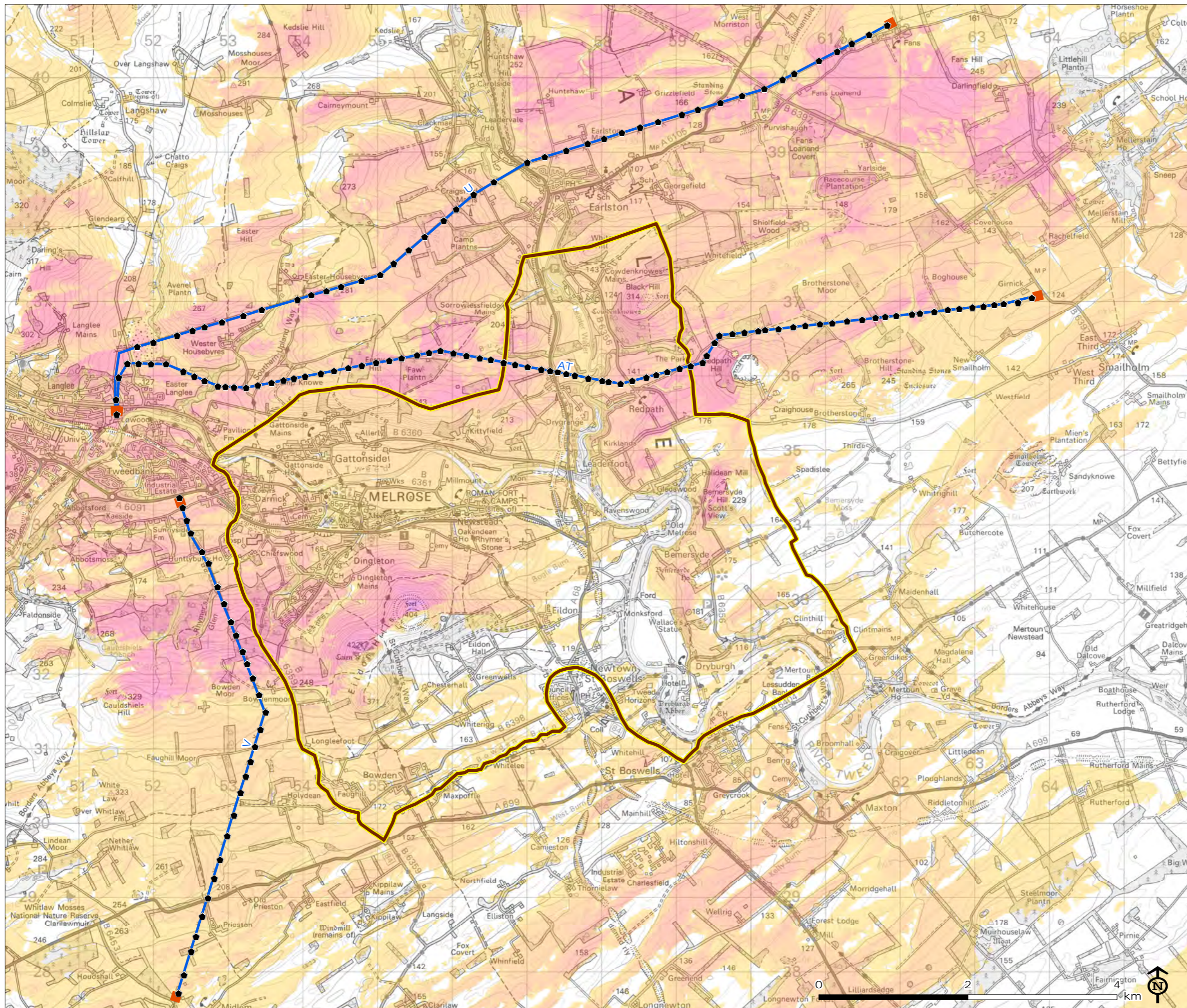


Map Scale @ A3: 1:50,000



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Figure 3.7: Zone of Theoretical Visibility of Lines in Eildon and Leaderfoot NSA



- Eildon and Leaderfoot National Scenic Area
 - Assessed 132kV overhead line sections
 - Tower
- Theoretical number of visible towers
- High
 - Low

Note
 The ZTV is calculated to tower/pole height:
 AT Route pole/tower: 17m height
 U Route steel tower: 35m
 V route steel tower: 35m 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 Aug 2015)
 Earth curvature and atmospheric refraction have been taken into account.
 The ZTV was calculated using ArcMap 10.3.1.

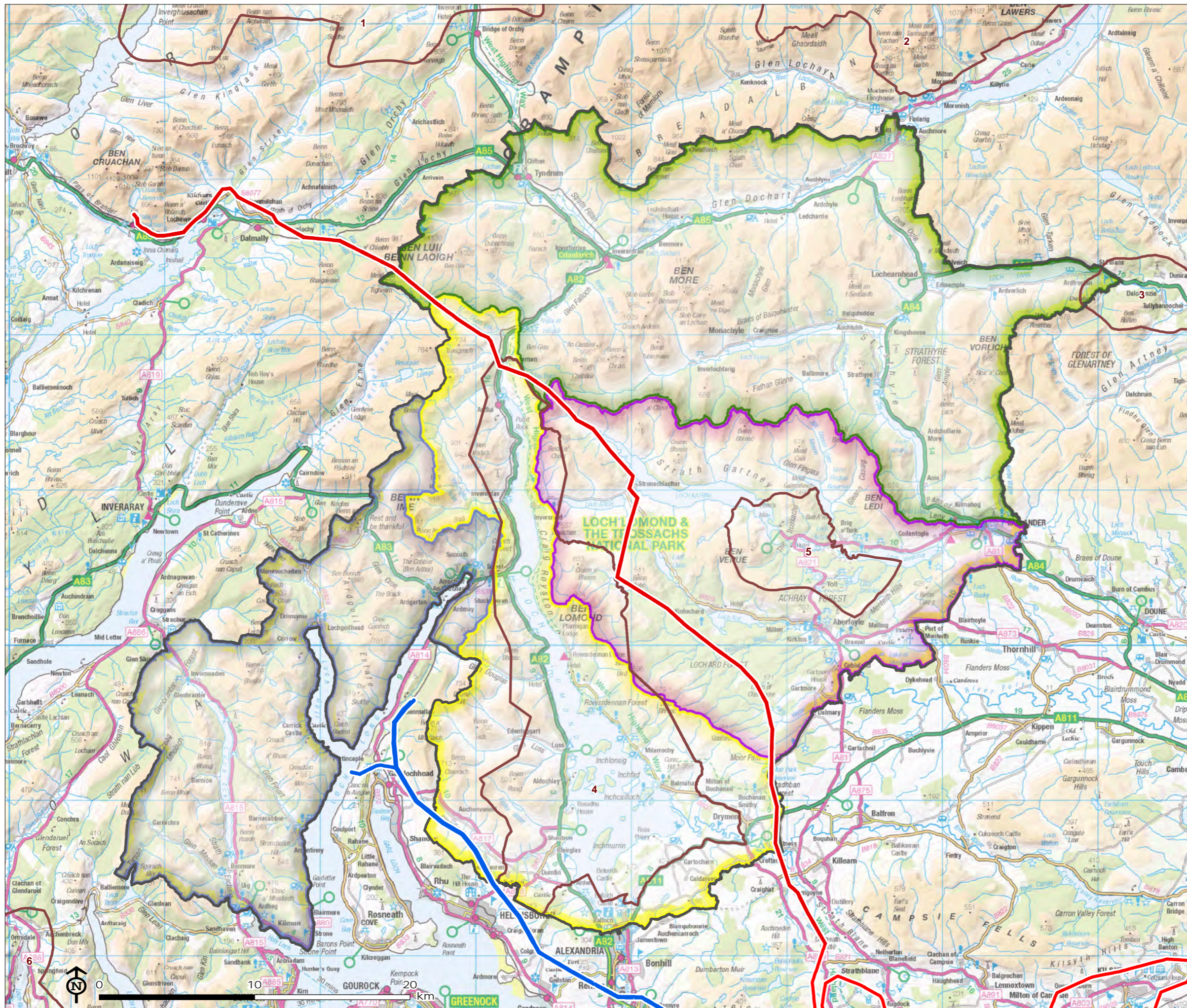
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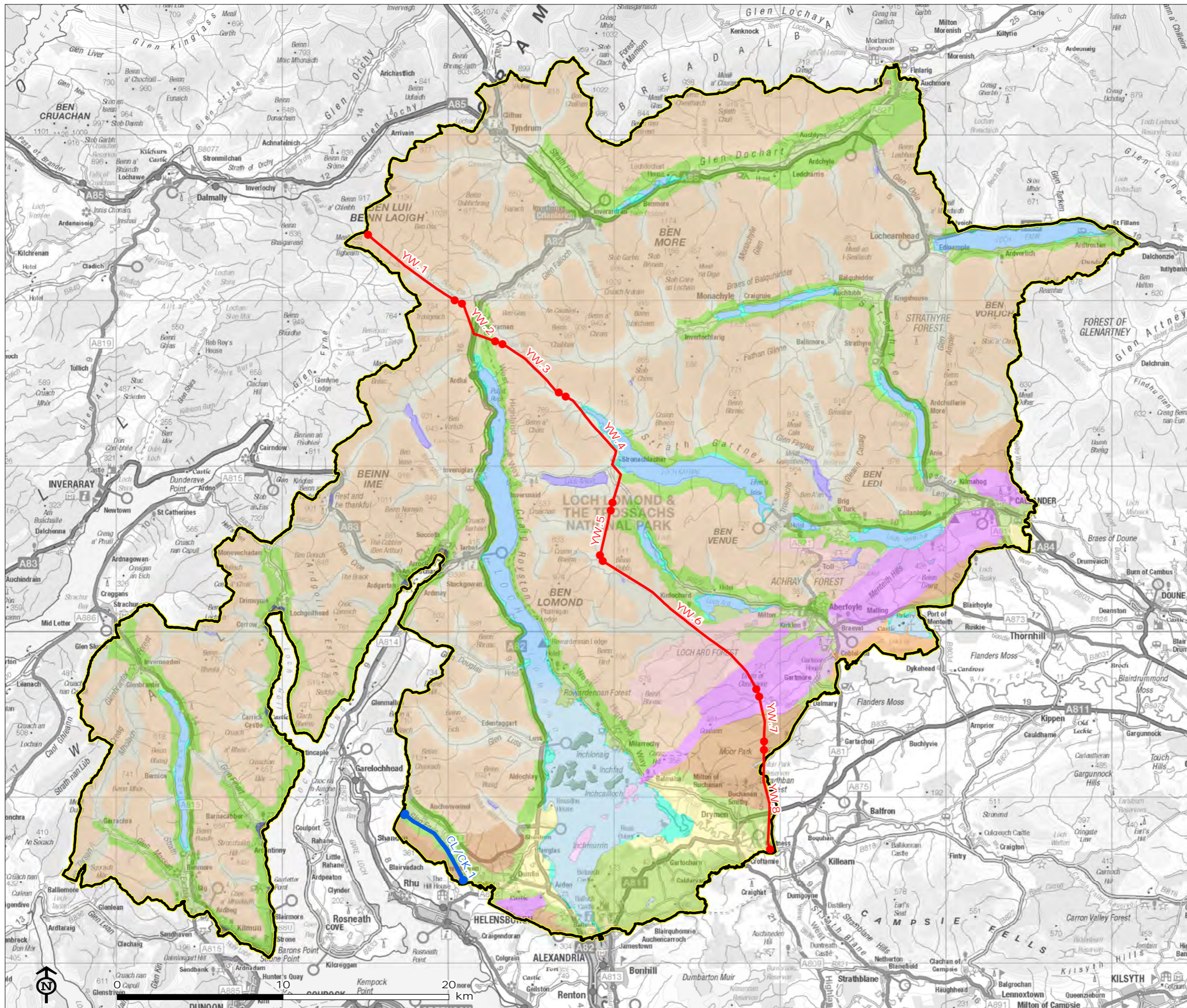
Figure 4.1: Landscape Areas of Loch Lomond and the Trossachs National Park

-  National Park boundary
 -  National Scenic Area
 - 1: Ben Nevis and Glen Coe
 - 2: Loch Rannoch and Glen Lyon
 - 3: River Earn (Comrie to St Fillans)
 - 4: Loch Lomond
 - 5: The Trossachs
 - 6: Kyles of Bute
- Landscape Areas
-  Argyll Forest
 -  Breadalbane
 -  Loch Lomond
 -  The Trossachs
- SPEN overhead line
-  132kV
 -  275kV



Map Scale @ A3: 1:240,000





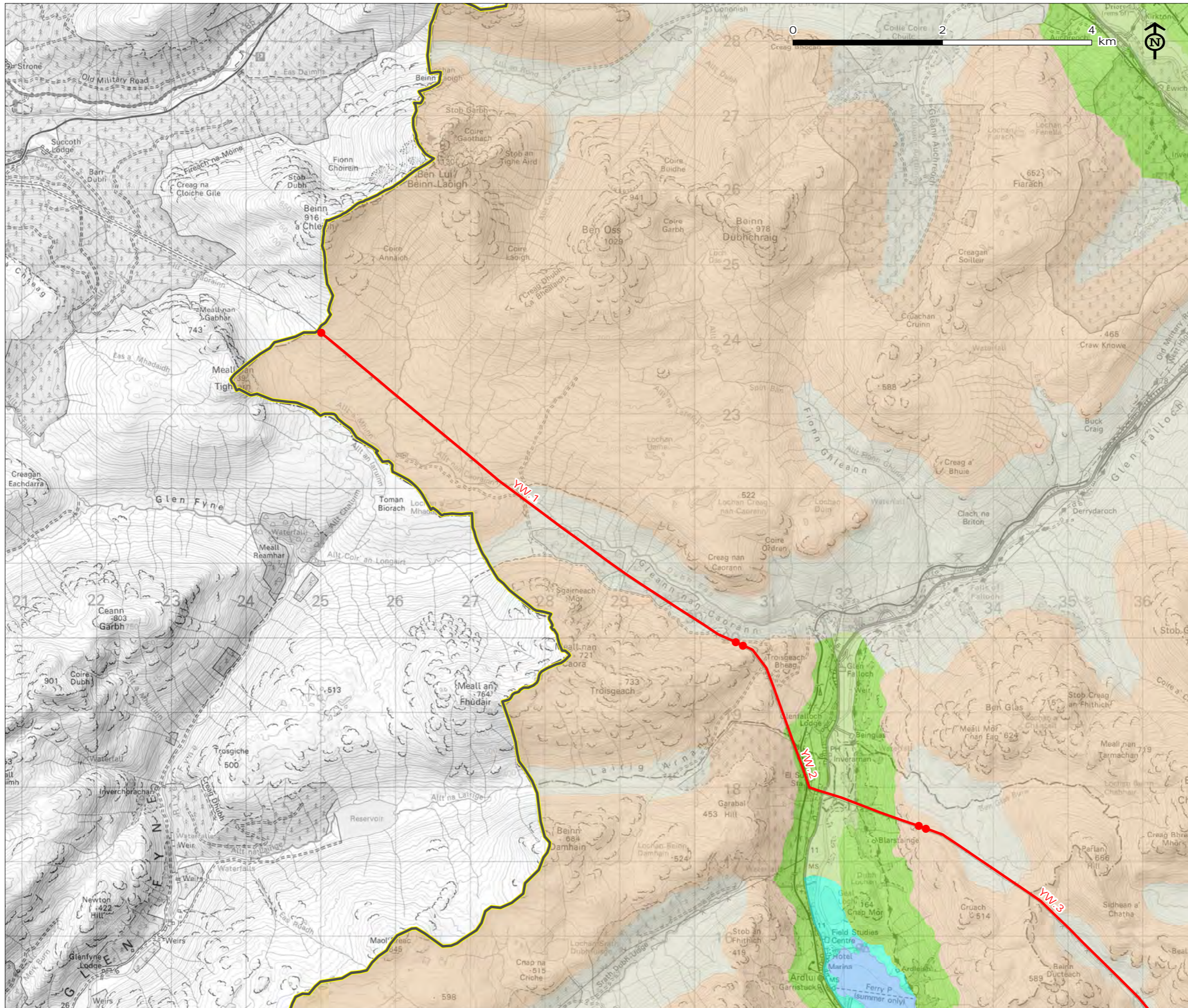
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Figure 4.2: Landscape Character Overview in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed overhead line sections
- 132kV overhead line
- 275kV overhead line
- Highland Landscape
- Hill
- Upland Glen
- Glen Side
- Strath and Glen Floor
- Transitional Landscape
- Parallel Ridge
- Upland Ridge
- Knolls with Estates
- Moorland
- Lowland Landscape
- Moss
- Rolling Farmland with Estates
- River Valley Farmland with Estates
- Lochs
- Upland Glen Loch (Highland)
- Glen Floor Loch (Highland)
- Transitional Loch (Loch Lomond only)
- Lowland Loch
- Loch Feature
- Loch Shore Fringe
- Sea Lochshore Fringe
- Sea Loch Foreshore
- Loch Island
- Loch Lomond Island (HBF)

Map Scale @ A3: 1:225,000

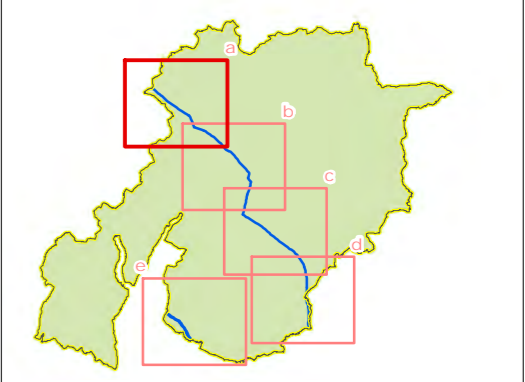




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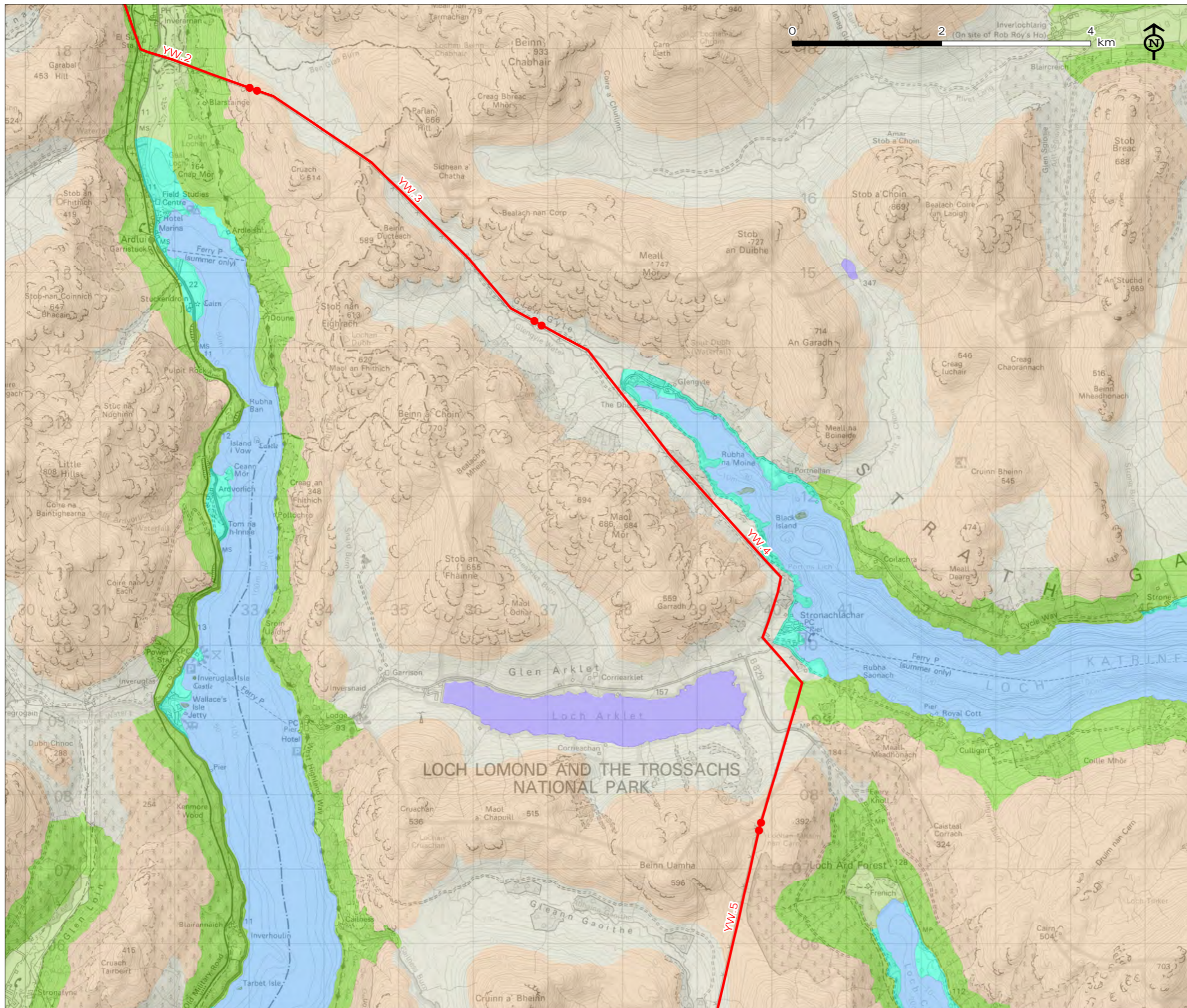
Figure 4.3a: Landscape Character Types in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Highland Landscape**
 - Hill
 - Upland Glen
 - Glen Side
 - Strath and Glen Floor
- Lochs**
 - Glen Floor Loch (Highland)
- Loch Feature**
 - Loch Shore Fringe



Map Scale @ A3: 1:50,000

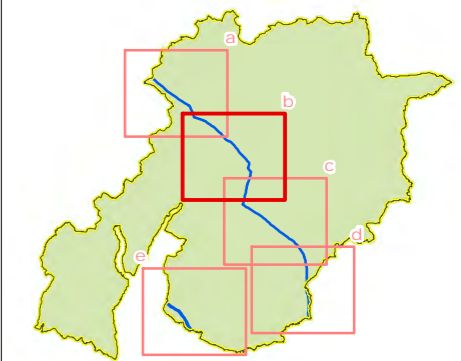




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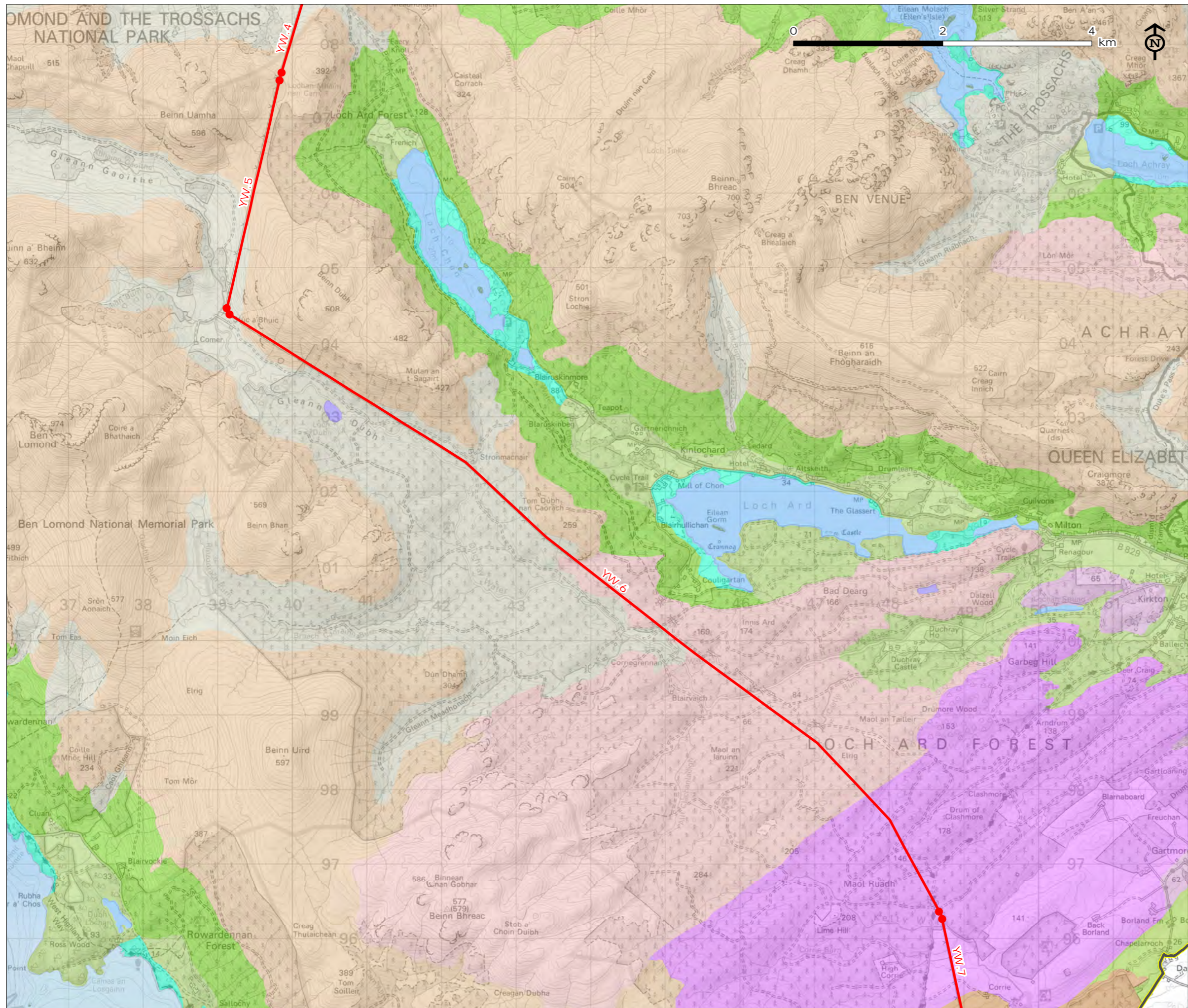
Figure 4.3b: Landscape Character Types in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Highland Landscape**
 - Hill
 - Upland Glen
 - Glen Side
 - Strath and Glen Floor
- Lochs**
 - Upland Glen Loch (Highland)
 - Glen Floor Loch (Highland)
- Loch Feature**
 - Loch Shore Fringe
 - Loch Island



Map Scale @ A3: 1:50,000



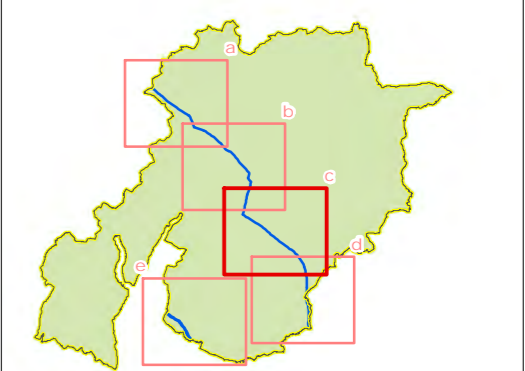


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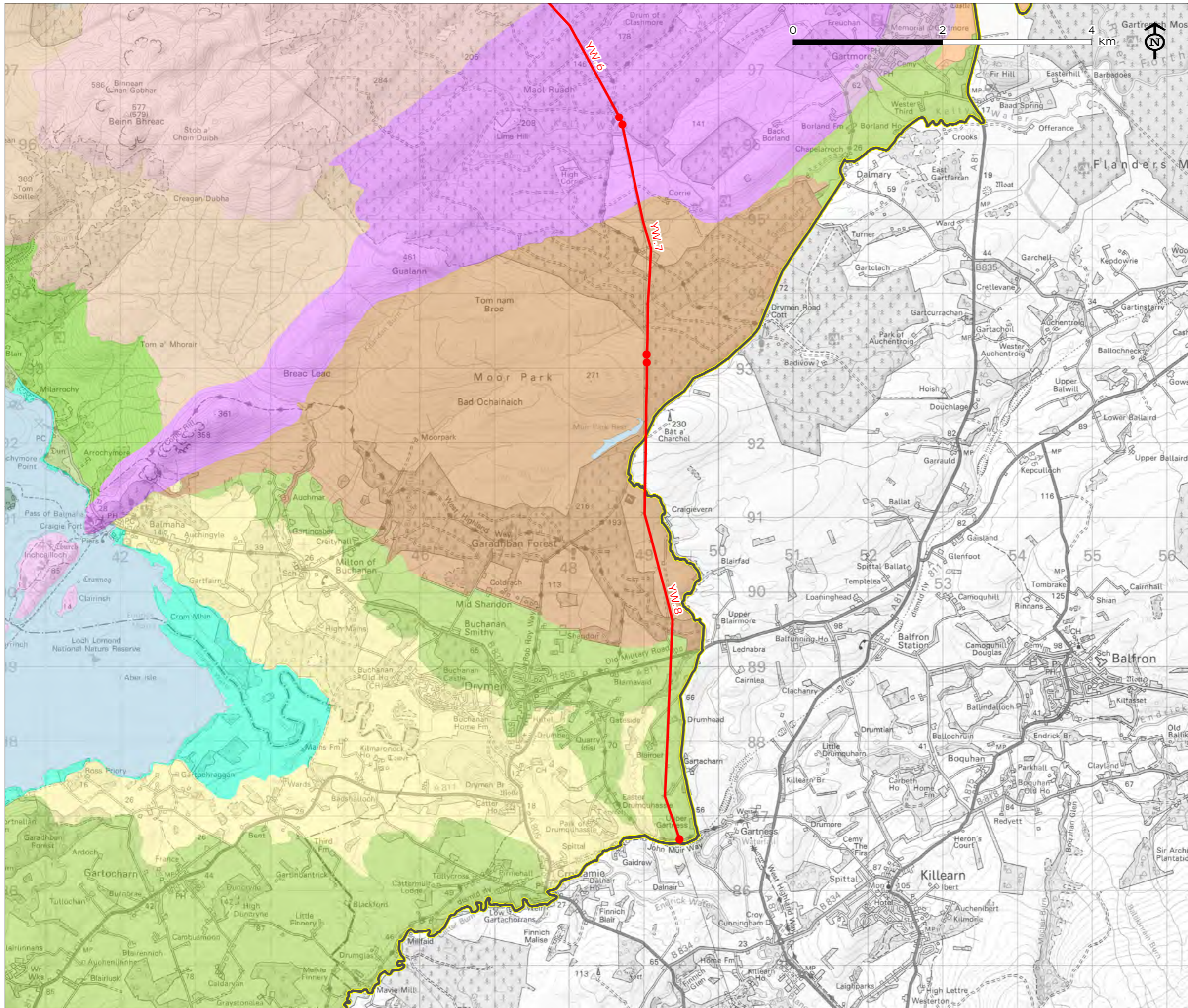
Figure 4.3c: Landscape Character Types in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Highland Landscape**
 - Hill
 - Upland Glen
 - Glen Side
 - Strath and Glen Floor
- Transitional Landscape**
 - Parallel Ridge
 - Upland Ridge
 - Knolls with Estates
 - Moorland
- Lowland Landscape**
 - Rolling Farmland with Estates
- Lochs**
 - Upland Glen Loch (Highland)
 - Glen Floor Loch (Highland)
 - Transitional Loch (Loch Lomond only)
 - Lowland Loch
- Loch Feature**
 - Loch Shore Fringe
 - Loch Island



Map Scale @ A3: 1:50,000

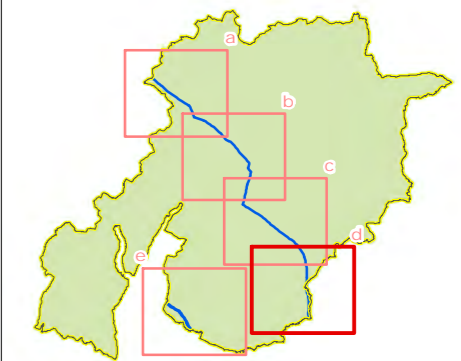




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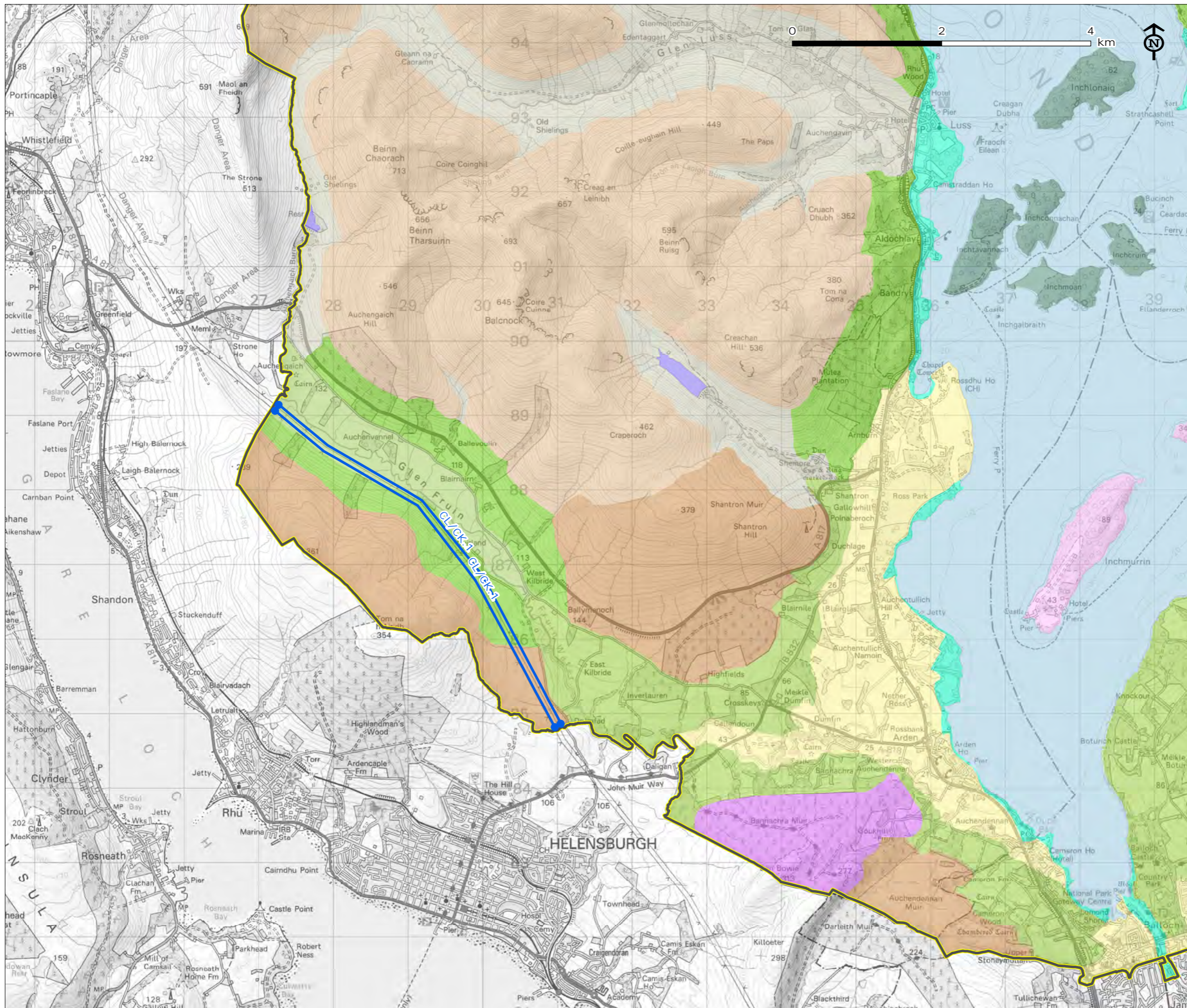
Figure 4.3d: Landscape Character Types in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Highland Landscape**
 - Hill
 - Upland Glen
 - Glen Side
 - Strath and Glen Floor
- Transitional Landscape**
 - Parallel Ridge
 - Upland Ridge
 - Knolls with Estates
 - Moorland
- Lowland Landscape**
 - Moss
 - Rolling Farmland with Estates
 - River Valley Farmland with Estates
- Lochs**
 - Lowland Loch
- Loch Feature**
 - Loch Shore Fringe
 - Loch Island
 - Loch Lomond Island (HBF)



Map Scale @ A3: 1:50,000

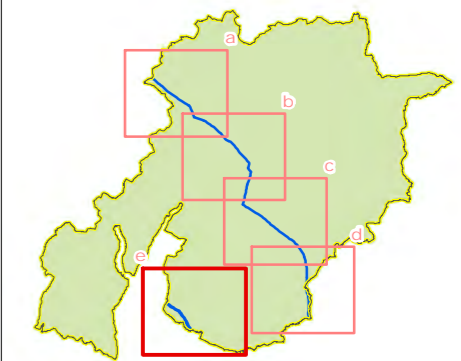




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Figure 4.3e: Landscape Character Types in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 132kV overhead line
- Highland Landscape**
 - Hill
 - Upland Glen
 - Glen Side
 - Strath and Glen Floor
- Transitional Landscape**
 - Parallel Ridge
 - Moorland
- Lowland Landscape**
 - Rolling Farmland with Estates
 - River Valley Farmland with Estates
- Lochs**
 - Upland Glen Loch (Highland)
 - Lowland Loch
- Loch Feature**
 - Loch Shore Fringe
 - Loch Island
 - Loch Lomond Island (HBF)














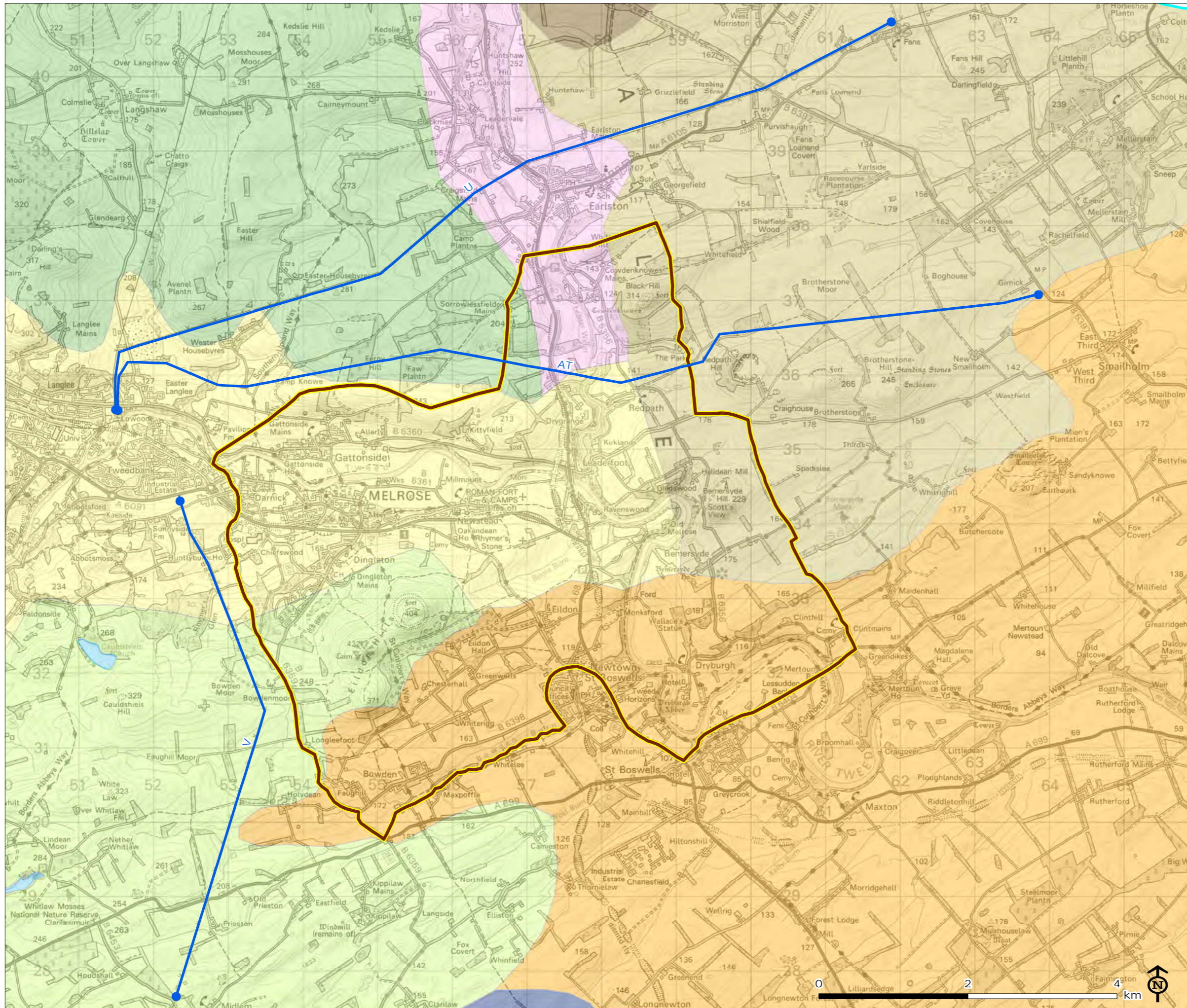
Map Scale @ A3: 1:50,000



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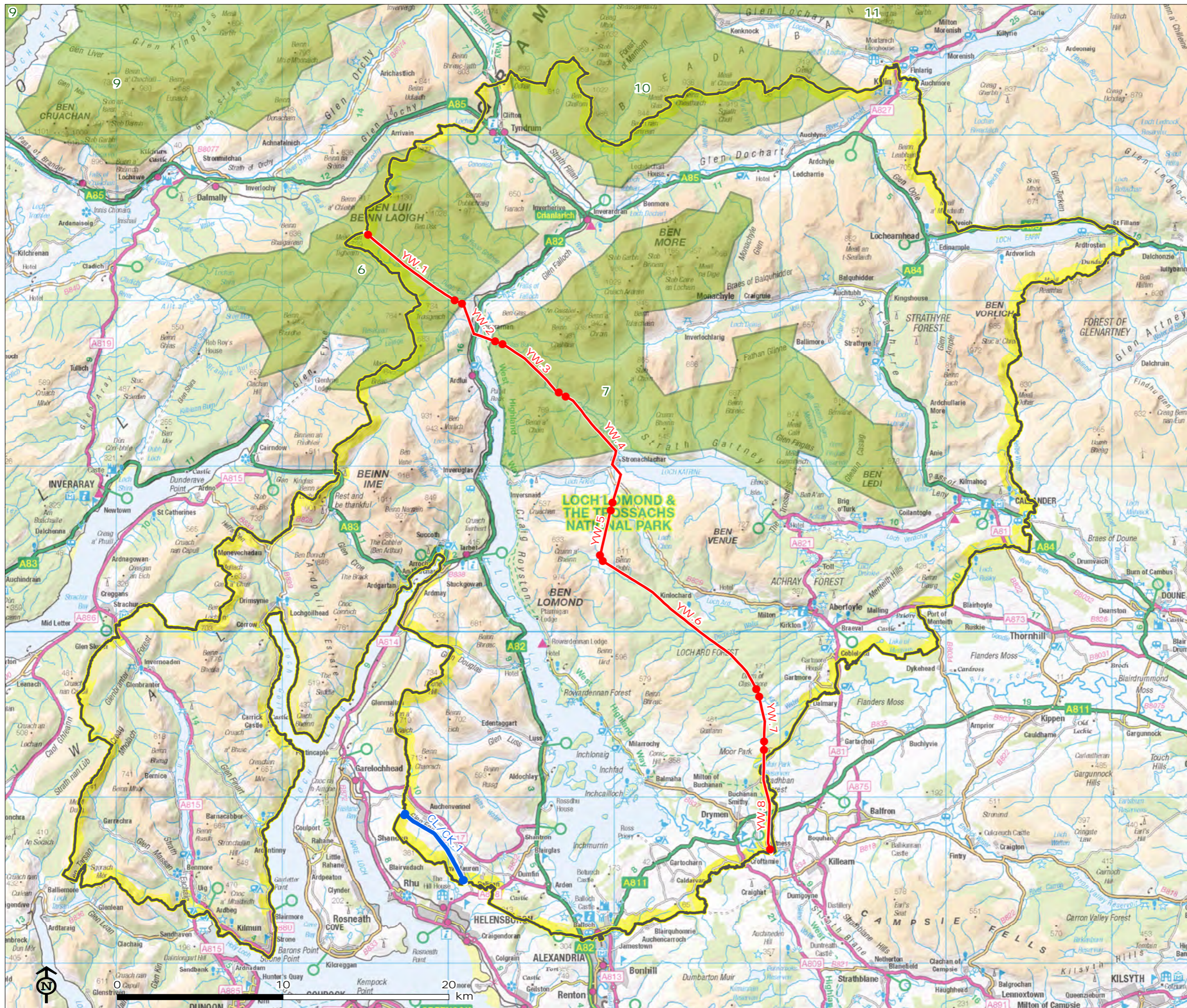
Figure 4.4: Landscape Character Types in Eildon and Leaderfoot NSA

-  Eildon and Leaderfoot National Scenic Area
 -  Assessed 132kV overhead line sections
- Landscape Character Type
-  Grassland with Hills
 -  Inland Loch
 -  Lowland Margin with Hills
 -  Lowland Valley with Farmland
 -  Pastoral Upland Fringe Valley
 -  Rolling Farmland
 -  Undulating Grassland
 -  Upland Fringe Valley with Settlements
 -  Wooded Upland Fringe Valley



Map Scale @ A3: 1:50,000





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Figure 4.5: Wild Land Areas in Loch Lomond and the Trossachs National Park

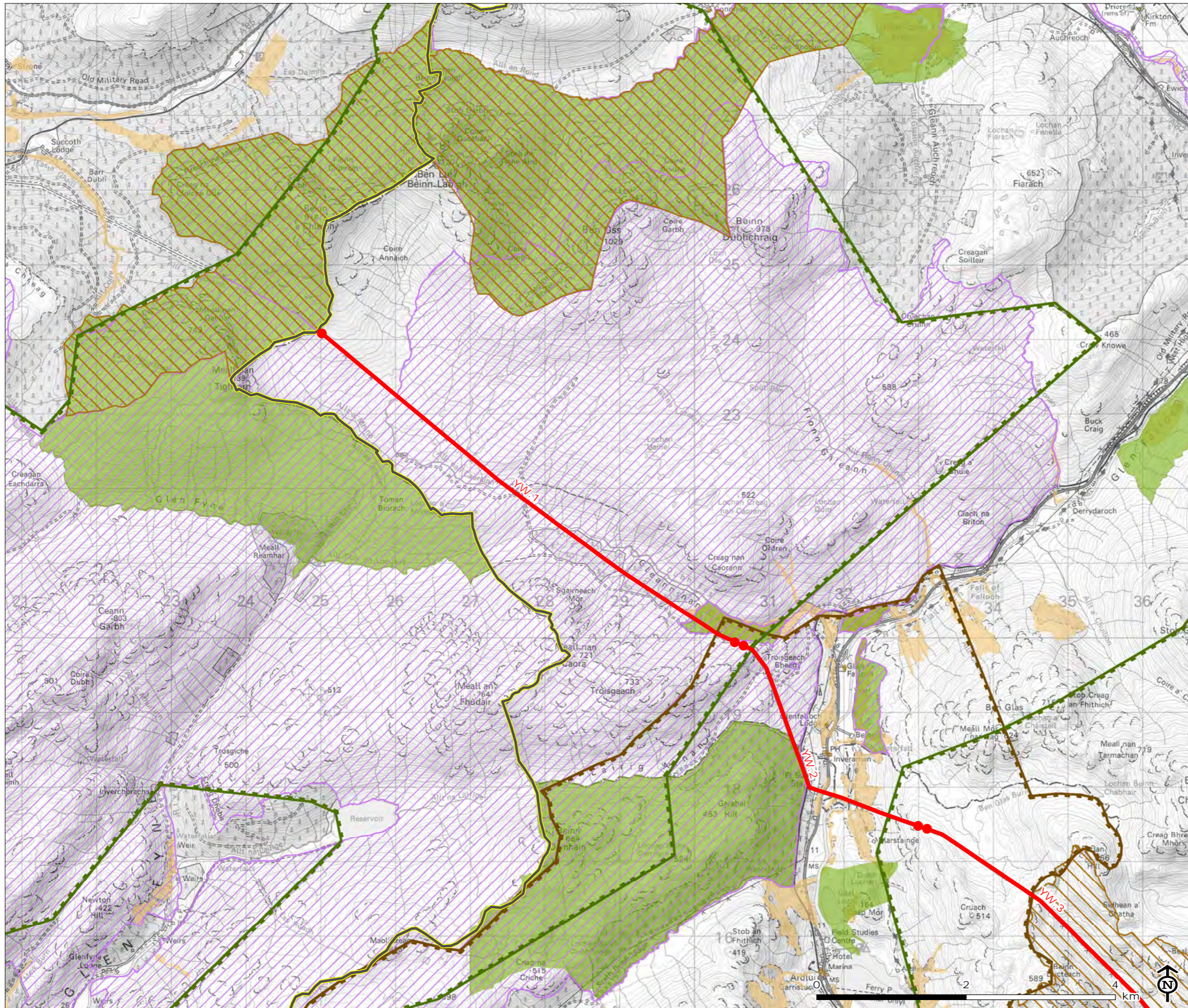
- National Park boundary
 - Assessed 132kV overhead line
 - Assessed 275kV overhead line
 - Wild land area
06. Ben Lui
07. Ben More - Ben Ledi
09. Loch Etive mountains
10. Breadalbane - Schiehallion
11. Lyon - Lochay

Map Scale @ A3: 1:225,000



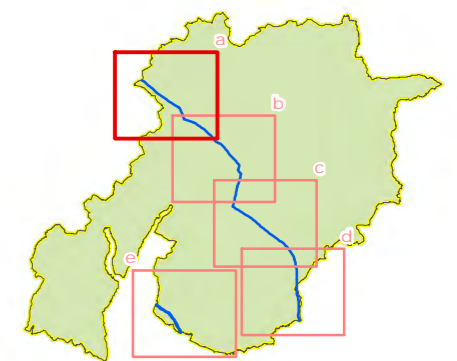
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Figure 4.6a: Environmental Designations in Loch Lomond and the Trossachs National Park



- National Park boundary
- Assessed 275kV overhead line
- Cultural heritage designation*
- International natural heritage designation**
- Local or national natural heritage designation***
- National Nature Reserve
- Regional or Country Park
- Wild land area
- Ancient Woodland Inventory

Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.

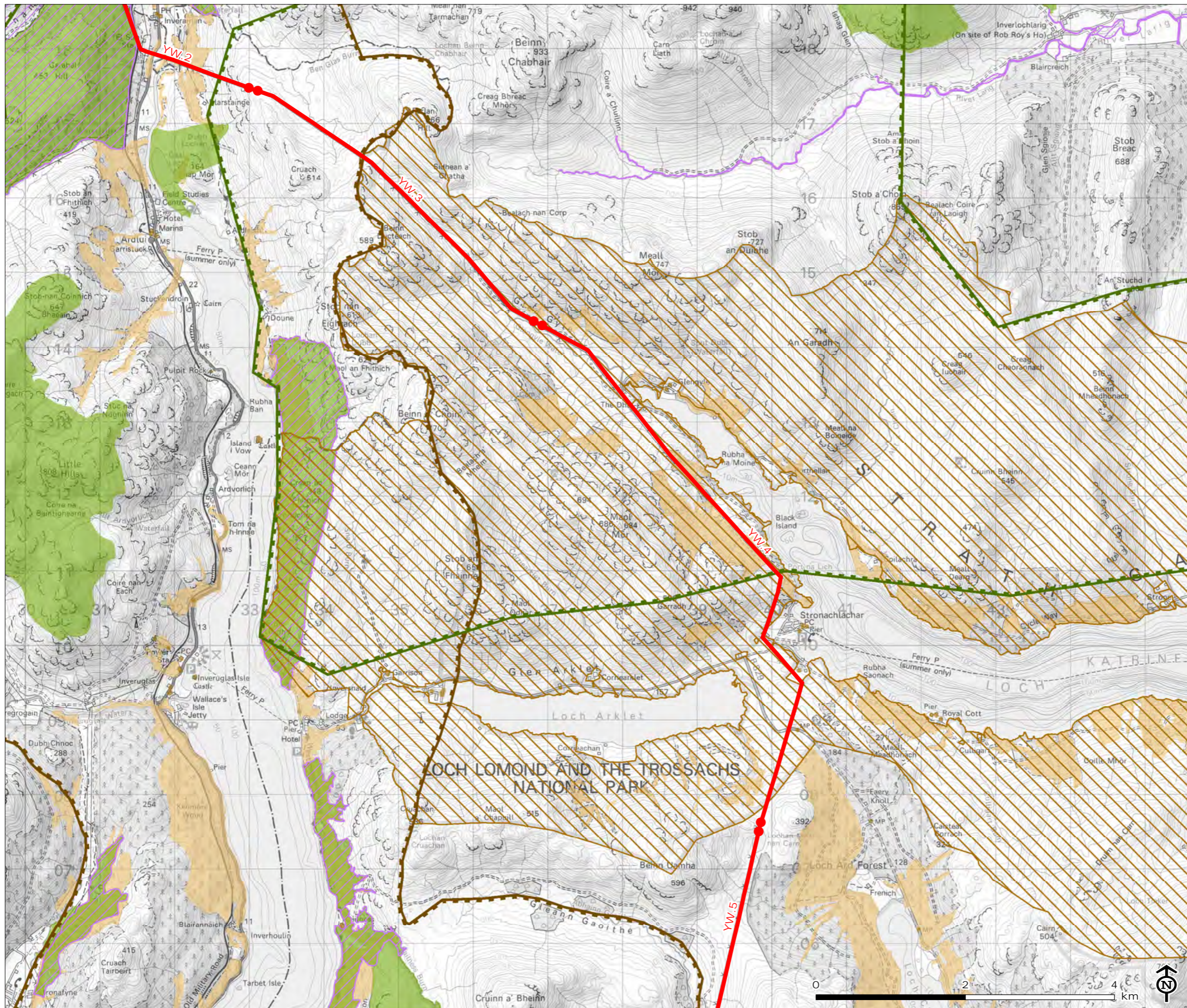


Map Scale @ A3: 1:50,000



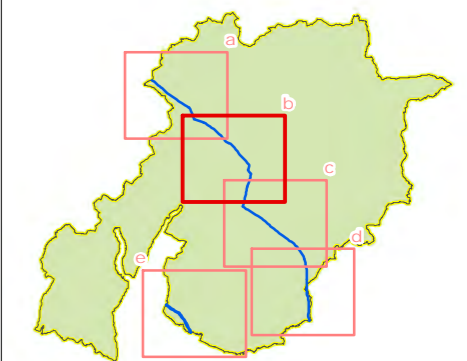
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Figure 4.6b: Environmental Designations in Loch Lomond and the Trossachs National Park



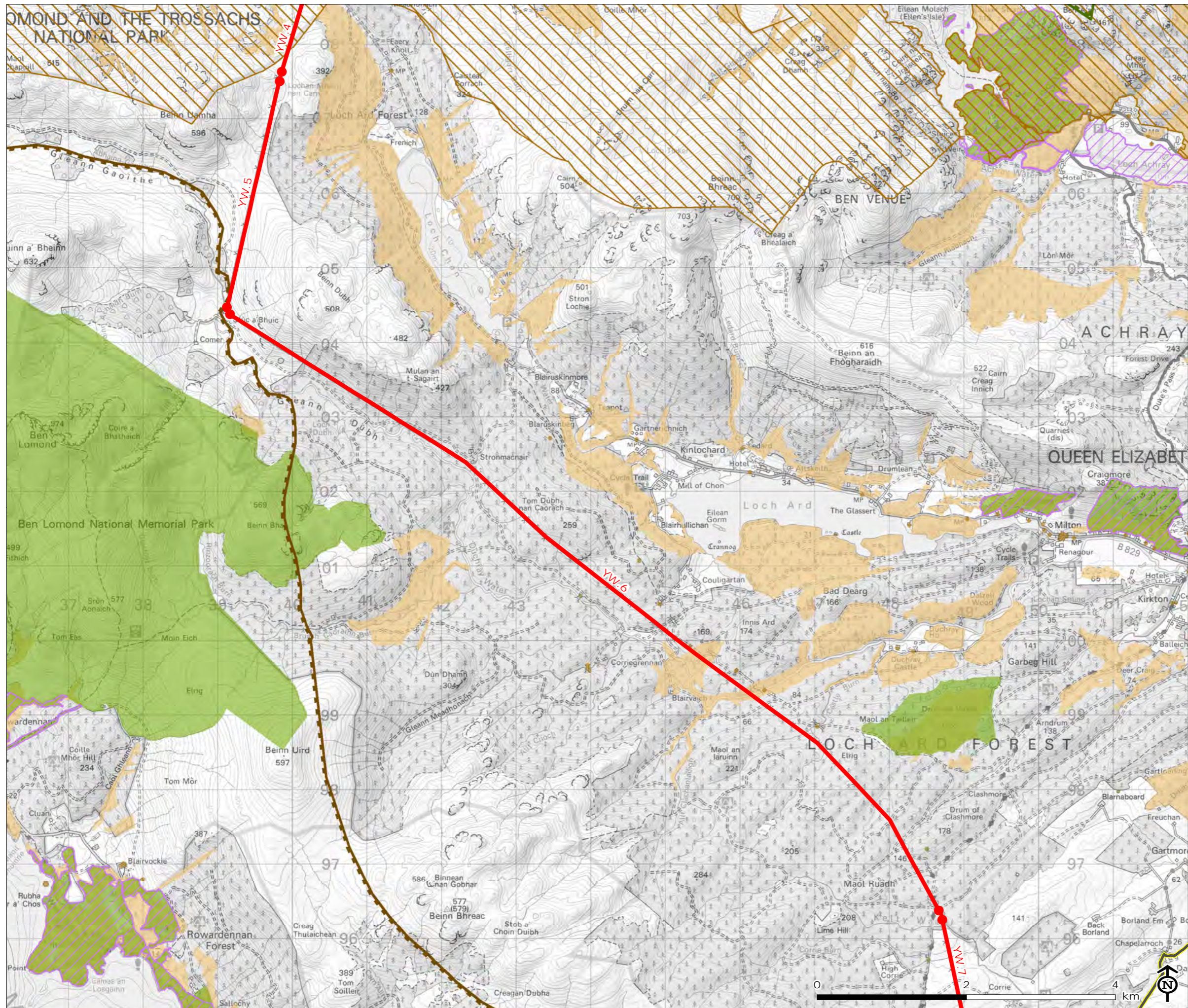
- National Park boundary
- Assessed 275kV overhead line
- Cultural heritage designation*
- International natural heritage designation**
- Local or national natural heritage designation***
- National Nature Reserve
- Regional or Country Park
- Wild land area
- Ancient Woodland Inventory

Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.



Map Scale @ A3: 1:50,000



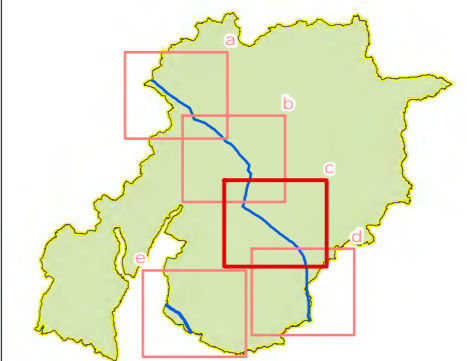


CHANGING THE VIEW Visual Impact of Existing Wirescape

Figure 4.6c: Environmental Designations in Loch Lomond and the Trossachs National Park

- National Park boundary
- Assessed 275kV overhead line
- Cultural heritage designation*
- International natural heritage designation**
- Local or national natural heritage designation***
- National Nature Reserve
- Regional or Country Park
- Wild land area
- Ancient Woodland Inventory

Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.

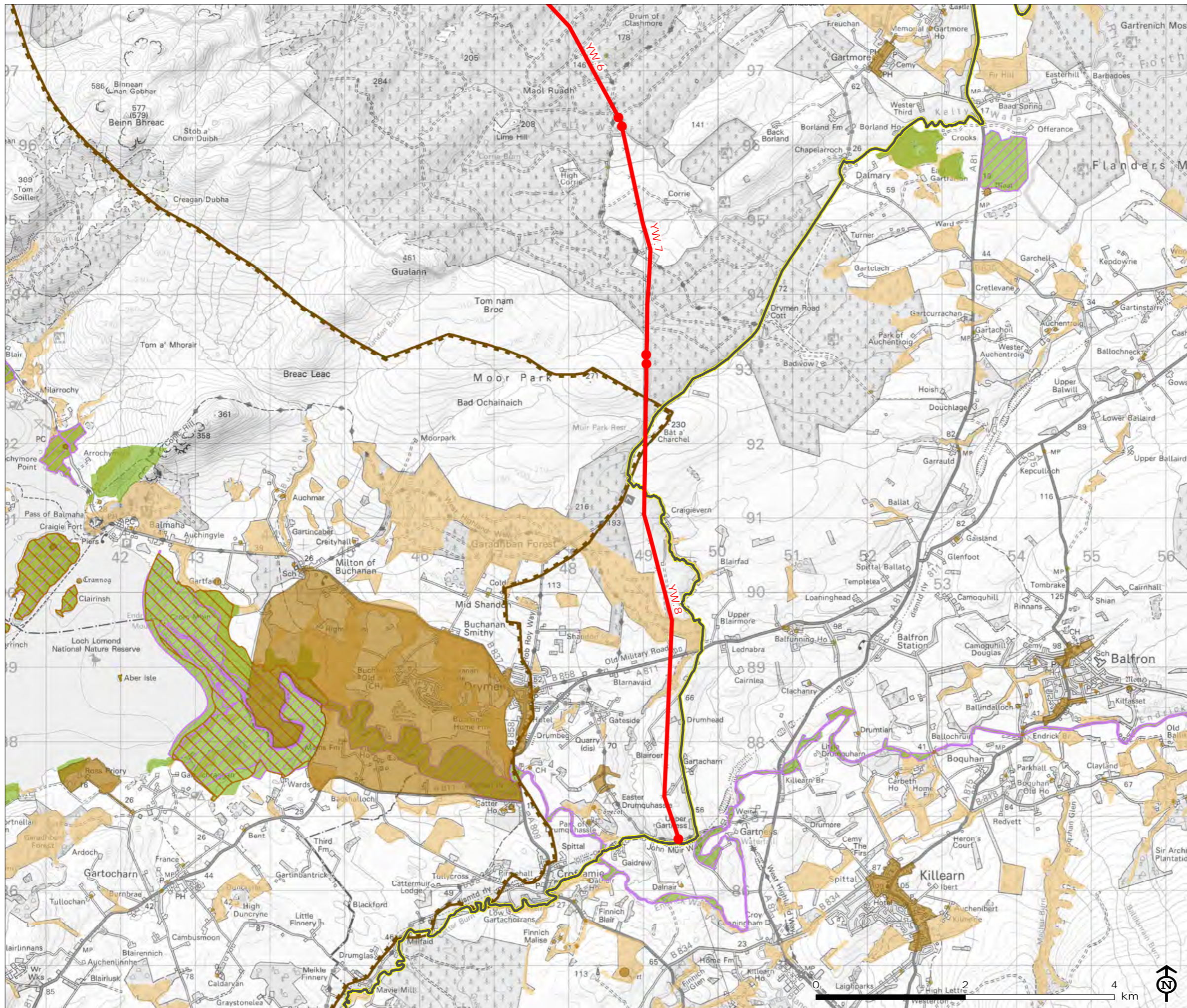


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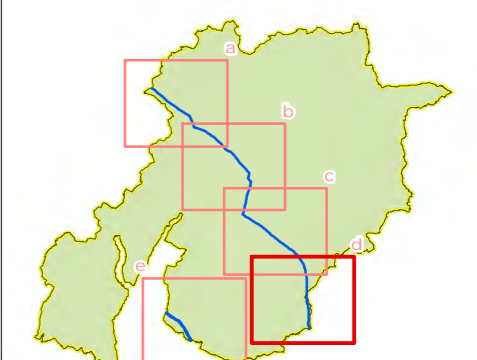
CHANGING THE VIEW Visual Impact of Existing Wirescape

Figure 4.6d: Environmental Designations in Loch Lomond and the Trossachs National Park



- National Park boundary
- Assessed 275kV overhead line
- Cultural heritage designation*
- International natural heritage designation**
- Local or national natural heritage designation***
- National Nature Reserve
- Regional or Country Park
- Ancient Woodland Inventory

Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.

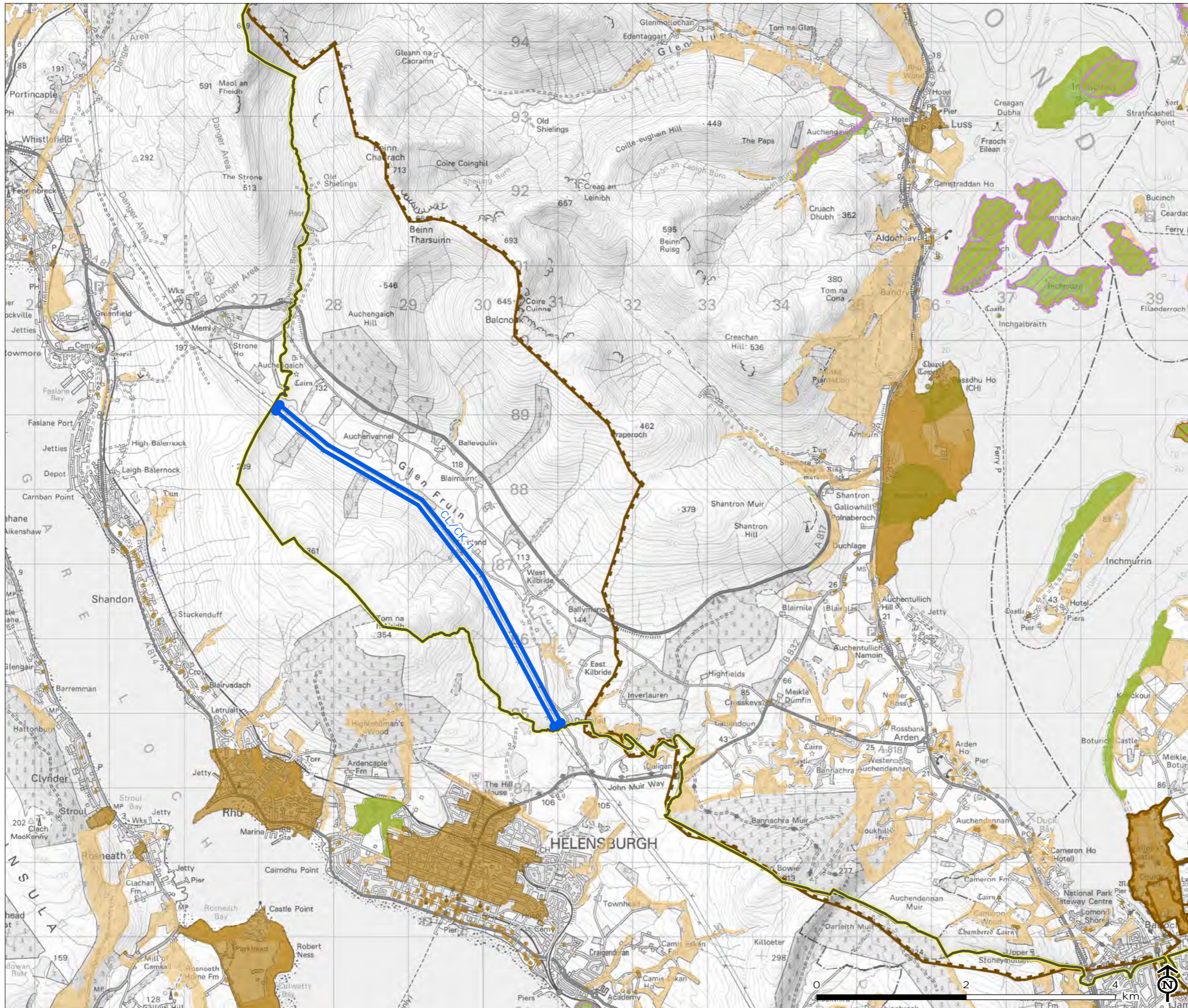


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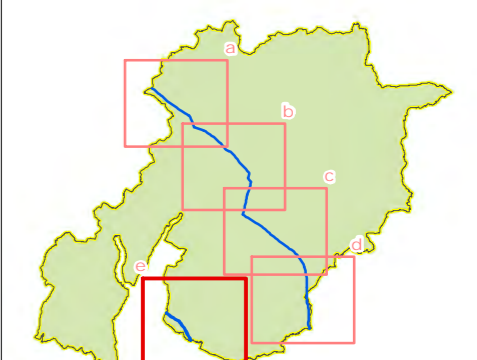
CHANGING THE VIEW
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Figure 4.6e: Environmental Designations in Loch Lomond and the Trossachs National Park



- National Park boundary
- Assessed 132kV overhead line
- Cultural heritage designation*
- International natural heritage designation**
- Local or national natural heritage designation***
- National Nature Reserve
- Regional or Country Park
- Ancient Woodland Inventory

Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.

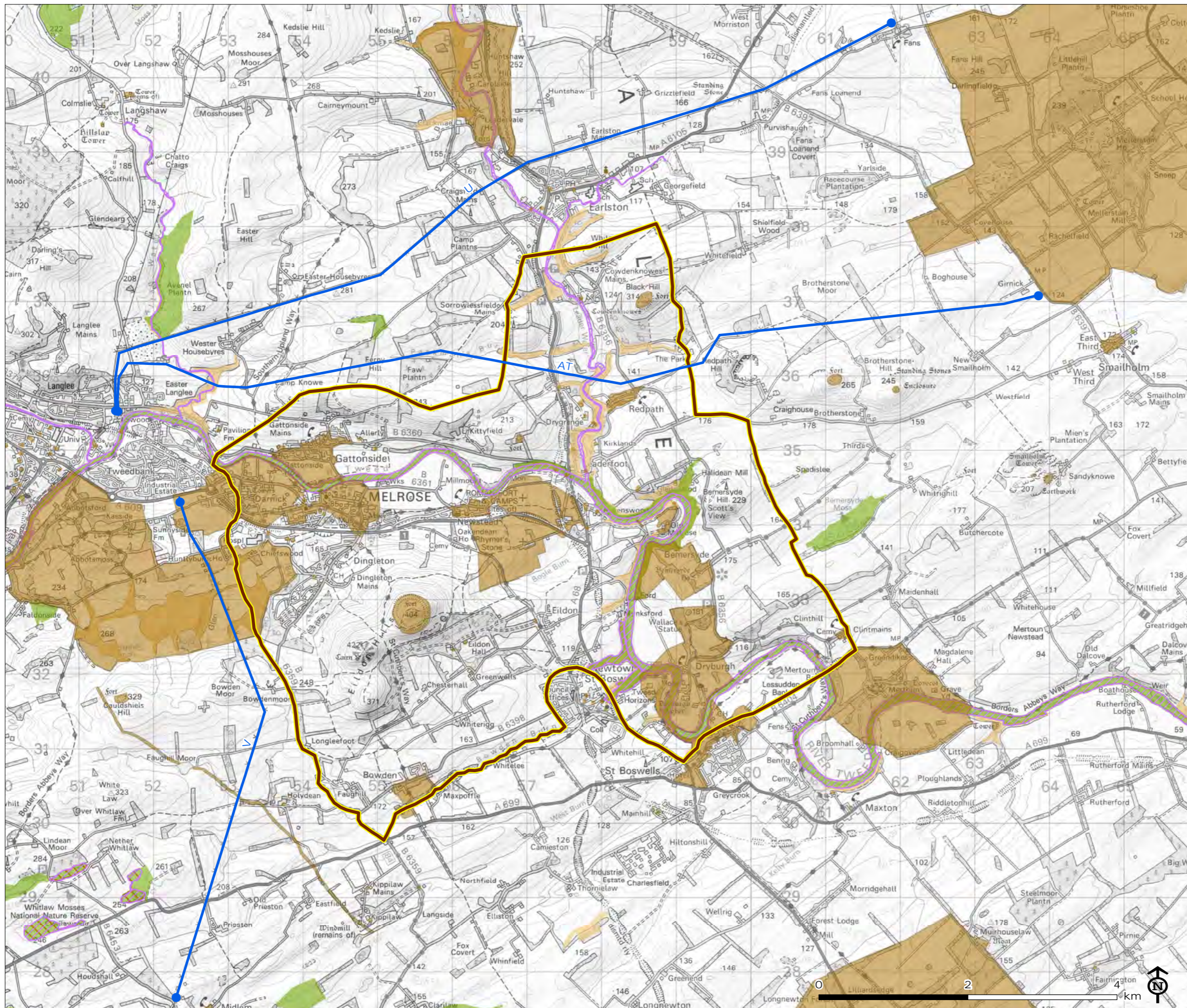


Map Scale @ A3: 1:50,000



CHANGING THE VIEW Visual Impact of Existing Wirescape

Figure 4.7: Environmental Designations in Eildon and Leaderfoot NSA



-  Eildon and Leaderfoot National Scenic Area
-  Assessed 132kV overhead line sections
-  Cultural heritage designation*
-  International natural heritage designation**
-  Local or national natural heritage designation***
-  National Nature Reserve
-  Ancient Woodland Inventory

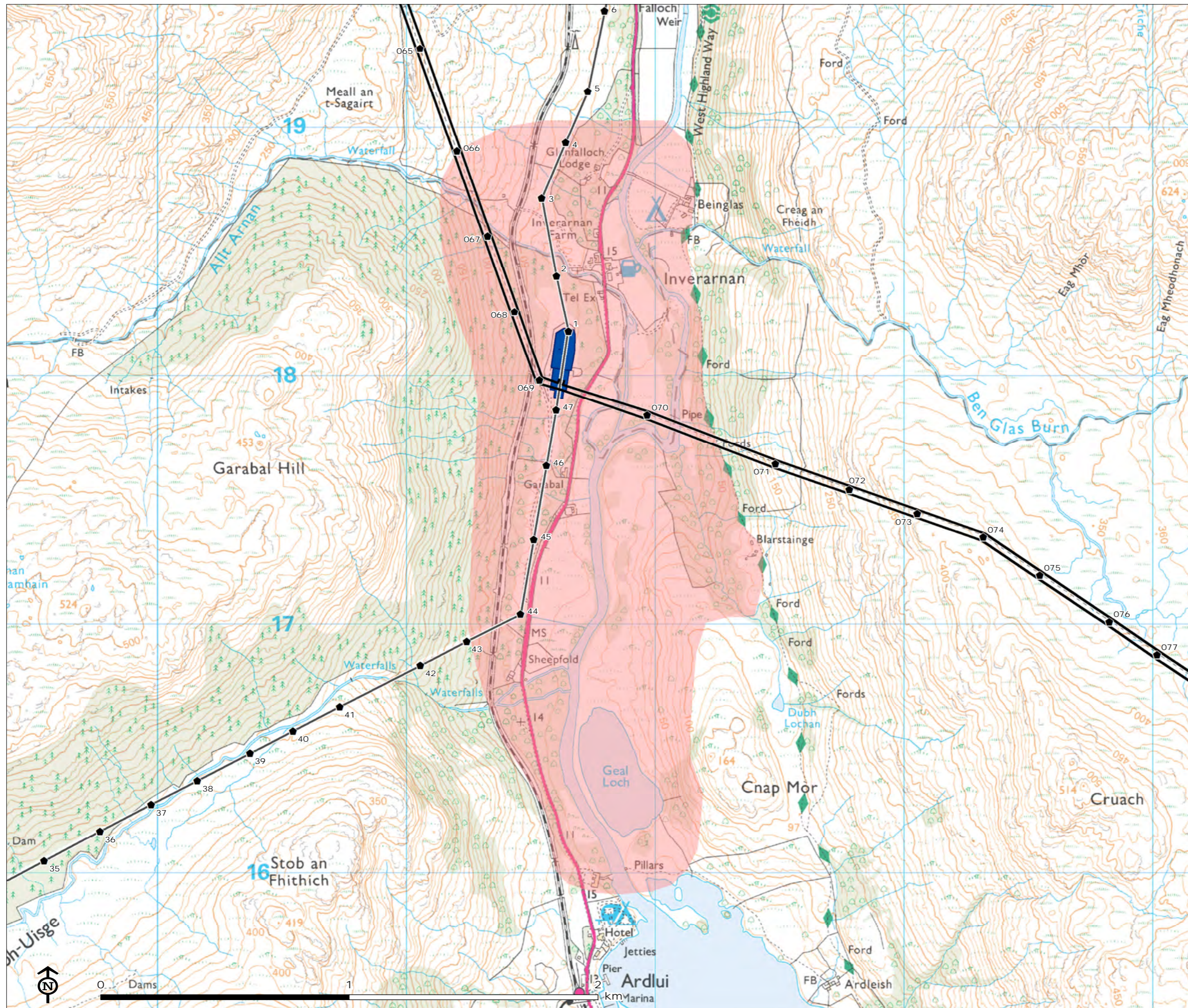
Note
 * Includes Scheduled Monuments, Listed Buildings, Conservation Areas, Historic Battlefields and Gardens and Designed Landscape.
 ** Includes Special Areas of Conservation, Special Protection Areas and Ramsar sites.
 *** Includes Sites of Special Scientific Interest and Local Nature Reserves.







Map Scale @ A3: 1:50,000



CHANGING THE VIEW
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Figure 8.1: YW.2 Inverarnan
C: Landscape enhancement around
substation/A82/West Highland Way



-  National Park boundary
-  275kV overhead line
-  132kV overhead line
-  Tower
-  Substation
- Mitigation proposal
-  Landscape enhancement

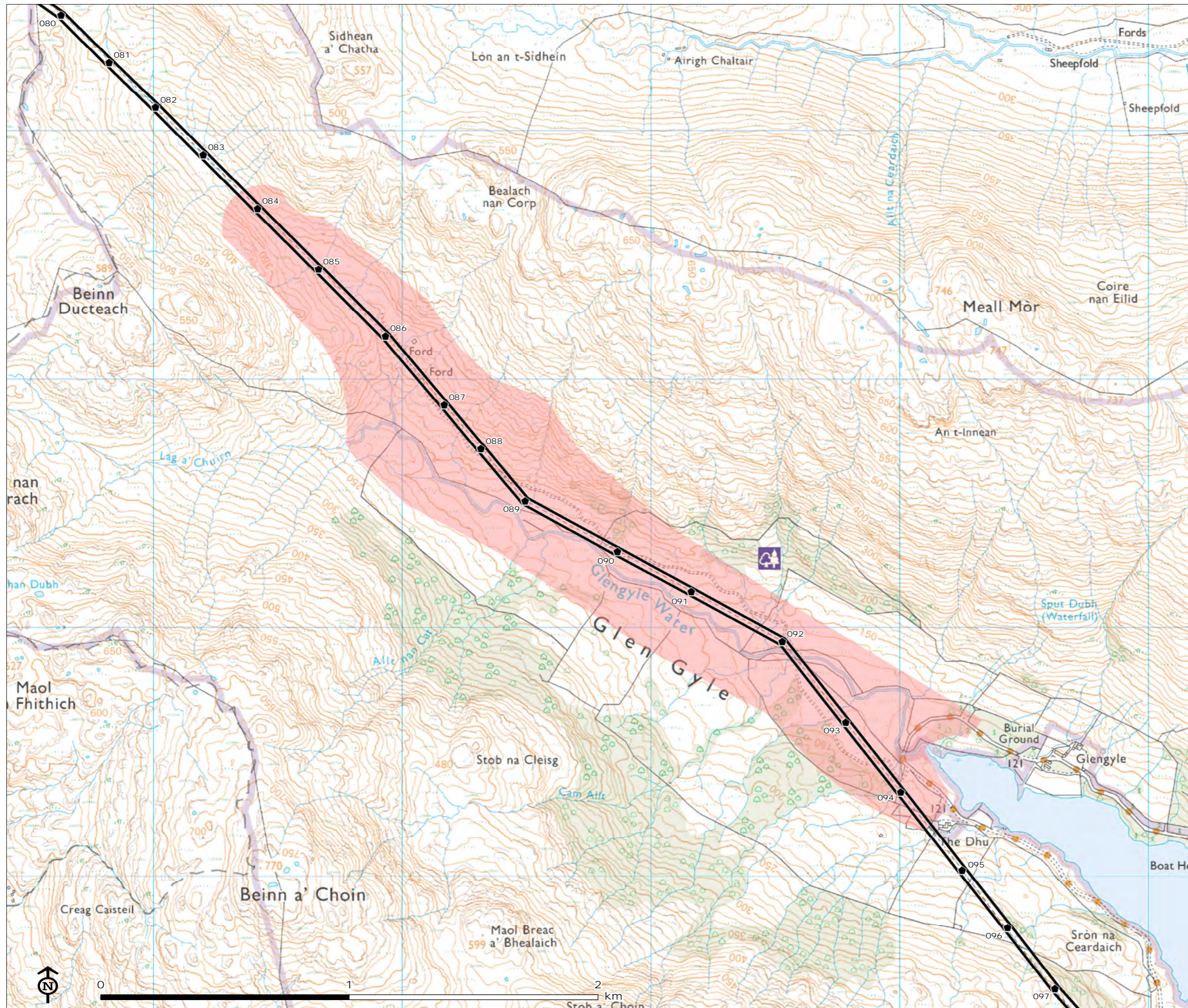






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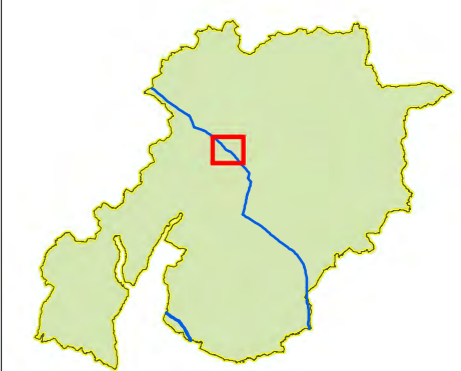


CHANGING THE VIEW
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Figure 8.2: YW.3 Glen Gyle
B: Landscape enhancement: native
woodland planting/restoration



-  National Park boundary
-  275kV overhead line
-  Tower
- Mitigation proposal
-  Landscape enhancement



Map Scale @ A3: 1:15,000



CHANGING THE VIEW
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Figure 8.3: YW.4
Stronachlachar, Loch Katrine
A: Re-routing a short section
above Stronachlachar Pier

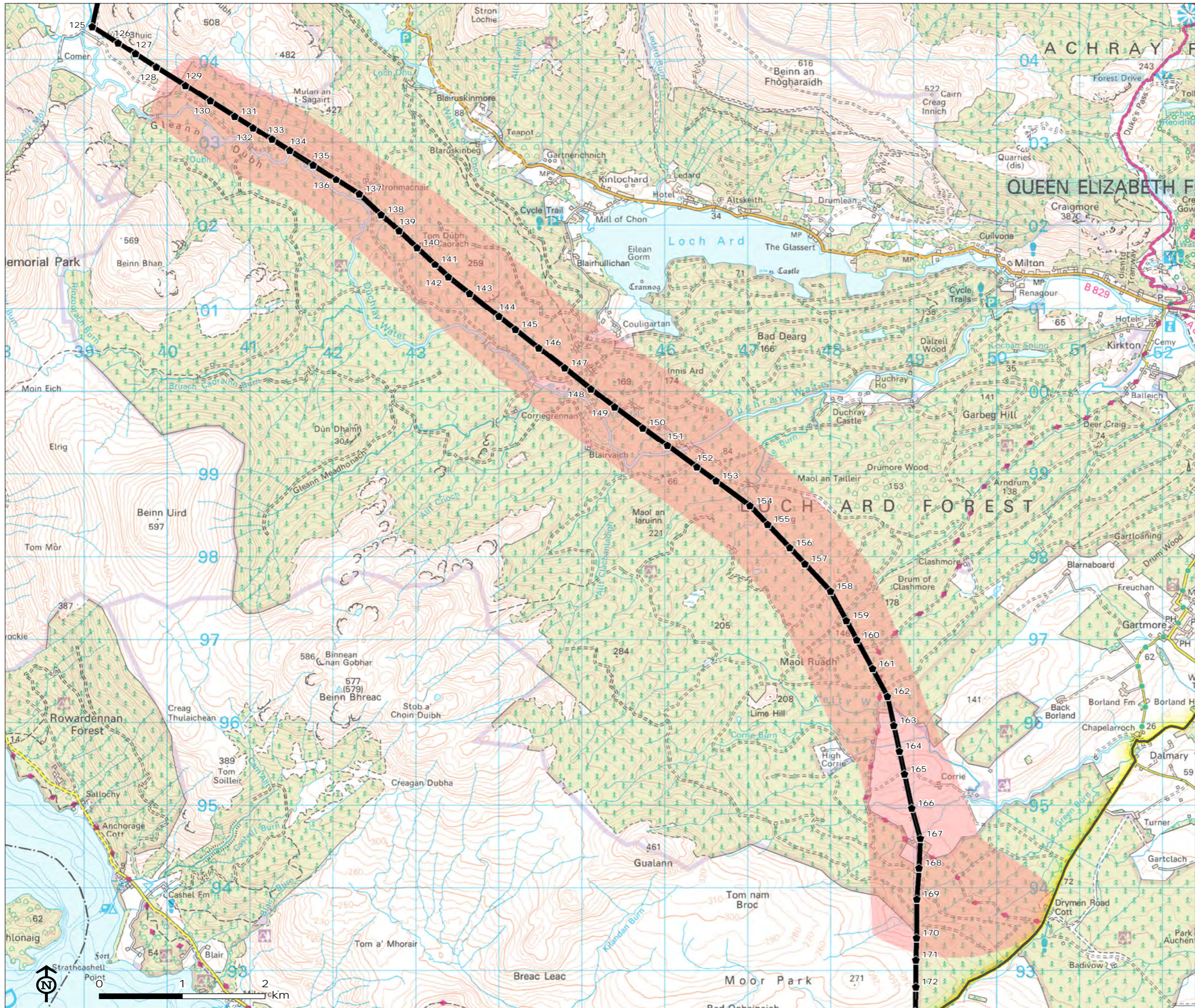


- National Park boundary
- 275kV overhead line
- Tower
- Mitigation proposal**
- Re-routing
- Possible sealing end compound







Map Scale @ A3: 1:20,000





CHANGING THE VIEW
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Wirescape

Figure 8.4: YW.6 / 7 Loch Ard Forest
A: Restructuring of forestry and wayleaves, improved access along aqueduct route

-  National Park boundary
-  275kV overhead line
-  Tower
- Mitigation proposal
-  Landscape enhancement

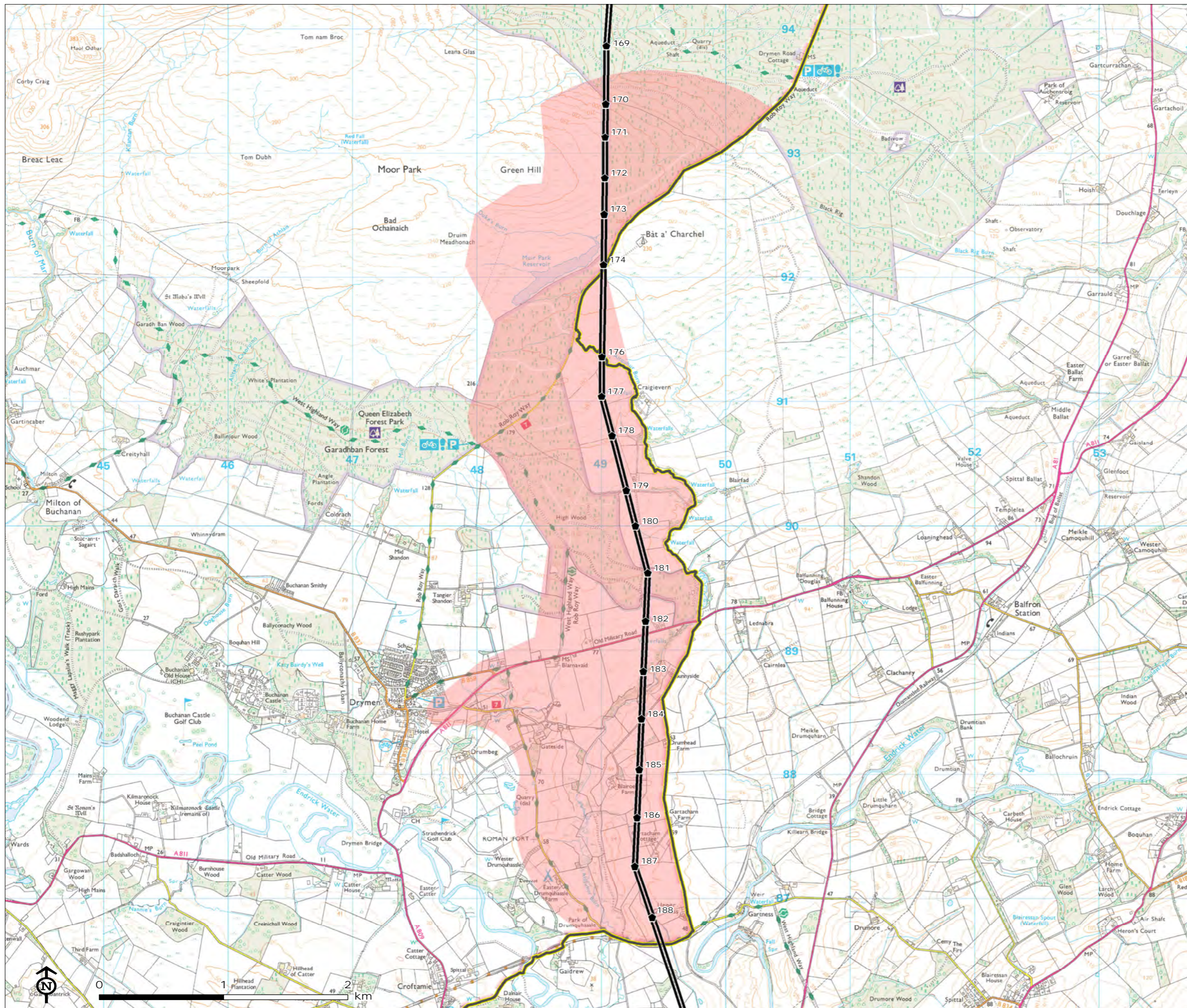






Map Scale @ A3: 1:45,000



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Figure 8.5: YW.8 East of Drymen
C: Landscape improvement along
key access routes to screen views

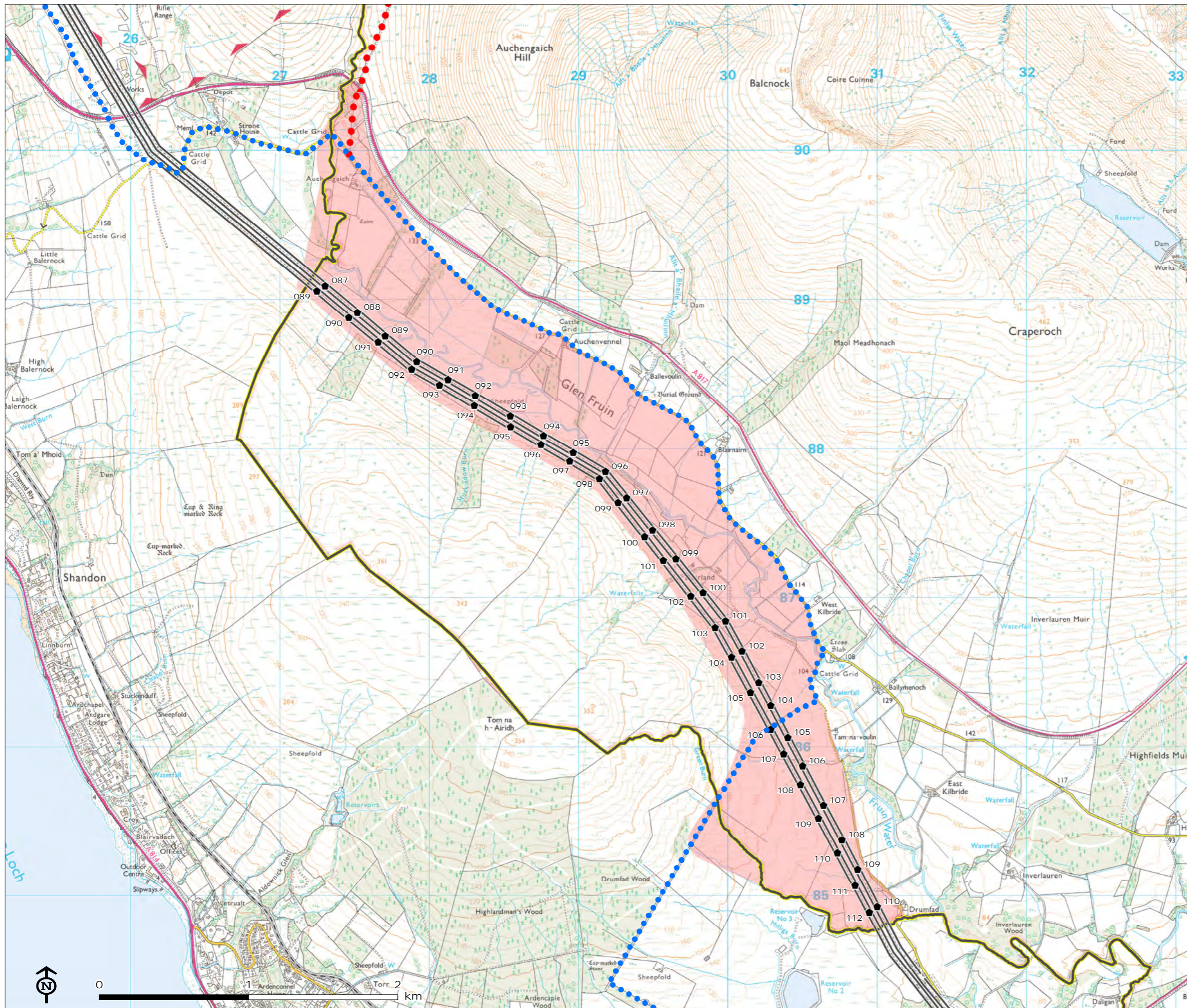


-  National Park boundary
-  275kV overhead line
-  Tower
- Mitigation proposal
-  Landscape enhancement



Map Scale @ A3: 1:30,000





CHANGING THE VIEW
 Visual Impact of Existing
 Wirescape

Figure 8.6: CL / CK.1 Glen Fruin
 C: Landscape enhancement along
 the Three Lochs Way and
 alternative walking route

- National Park boundary
- 132kV overhead line
- Tower
- Three Lochs Way
- Mitigation proposal
- Landscape enhancement
- Possible re-routing / alternative route of Three Lochs Way

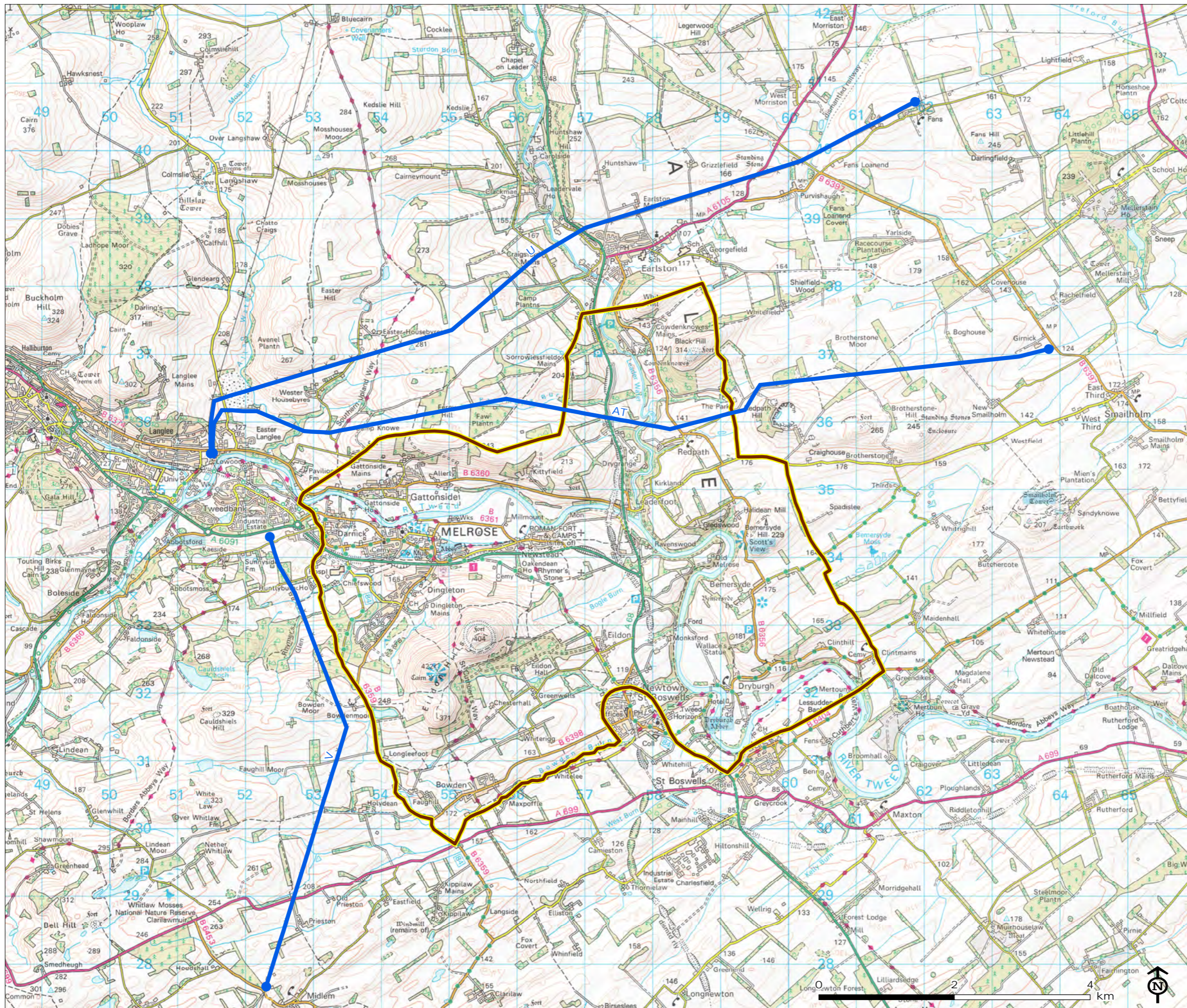


Map Scale @ A3: 1:25,000



CHANGING THE VIEW
Visual Impact of Existing
Wirescape

Figure 8.7: AT/U/V Eildon and Leaderfoot NSA
C: Development of an Eildon and Leaderfoot NSA Management Plan



- Eildon and Leaderfoot National Scenic Area
- Assessed 132kV overhead line sections

Map Scale @ A3: 1:55,000

