

# Preliminary Environmental Information Report

Volume 2: Chapter 7 Figures

February 2025

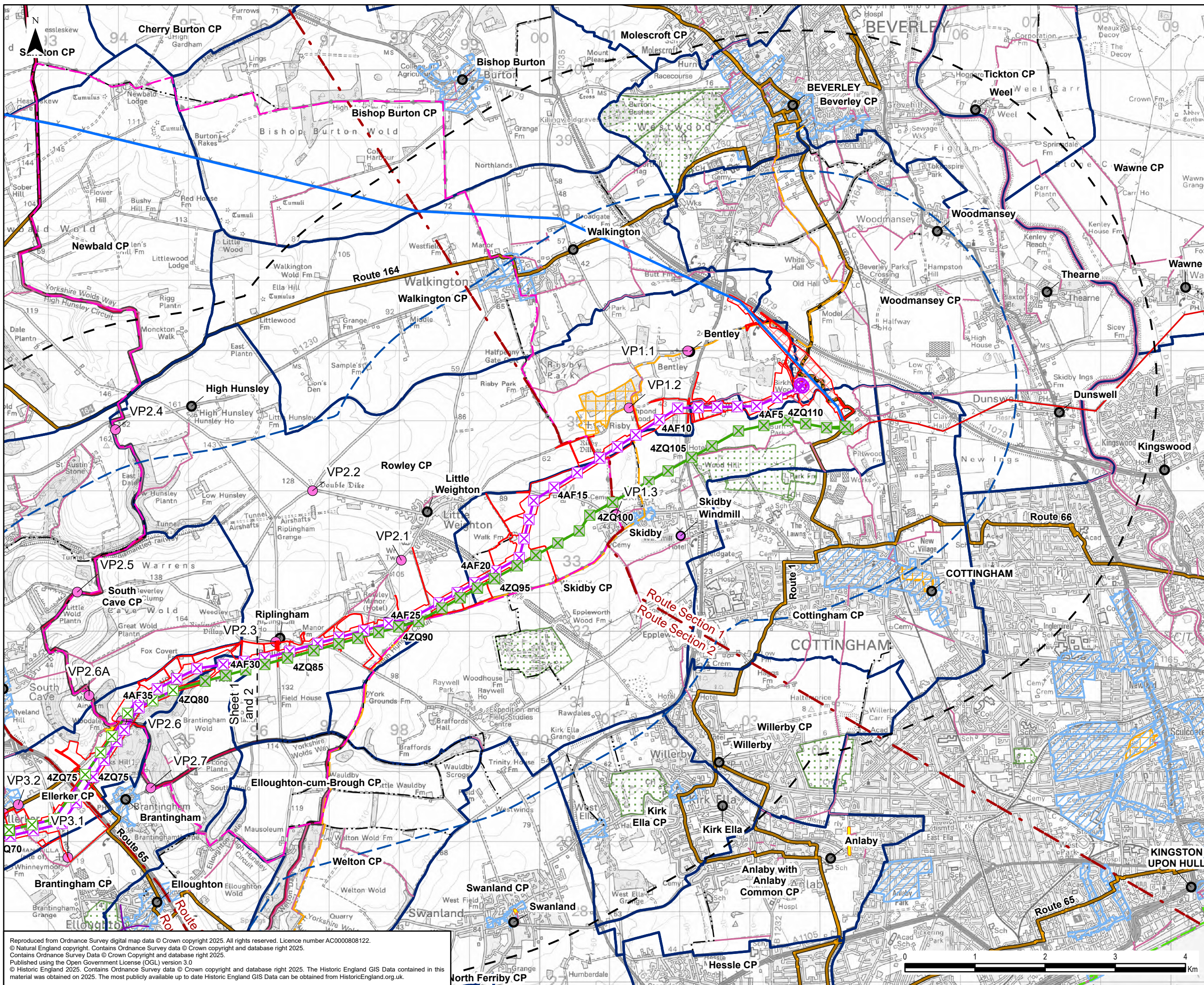


**The Great Grid Upgrade**

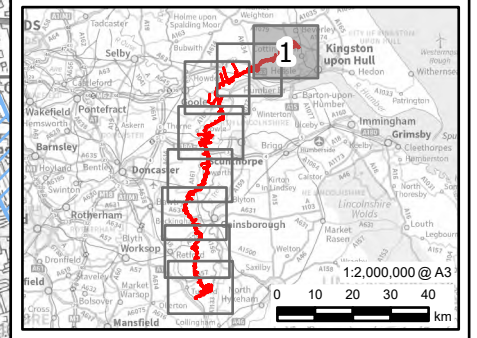
North Humber to High Marnham

**nationalgrid**





- Legend**
- Draft Order Limits
  - Proposed Substation Works
  - 3 km Study Area
  - 5 km Study Area
  - Route Section
  - Existing Overhead Line
  - 275 kV
  - 400 kV
  - Proposed Project Design Details**
  - Indicative New Overhead Line
  - Indicative New Lattice Pylon
  - Indicative New Gantry
  - Existing Overhead Line Not Affected
  - Existing Overhead Line to be Reconstructed
  - Existing Overhead Line to be Dismantled
  - Existing Lattice Pylon Not Affected
  - Existing Lattice Pylon To Be Modified
  - Visual Receptors**
  - Viewpoint Location
  - Settlement
  - Visitor Attraction
  - Yorkshire Wolds Way
  - High Hunslet Circuit
  - Beverley 20 Footpath
  - Trans Pennine Trail
  - National Cycle Network Route
  - Parish
  - Conservation Area
  - Registered Parks and Gardens Grade II
  - Golf Course
  - Public Rights of Way**
  - Bridleway
  - Byway Open to All Traffic
  - Footpath
  - Restricted Byway



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Rev	Date	Description	GIS	Chk	App

**nationalgrid**

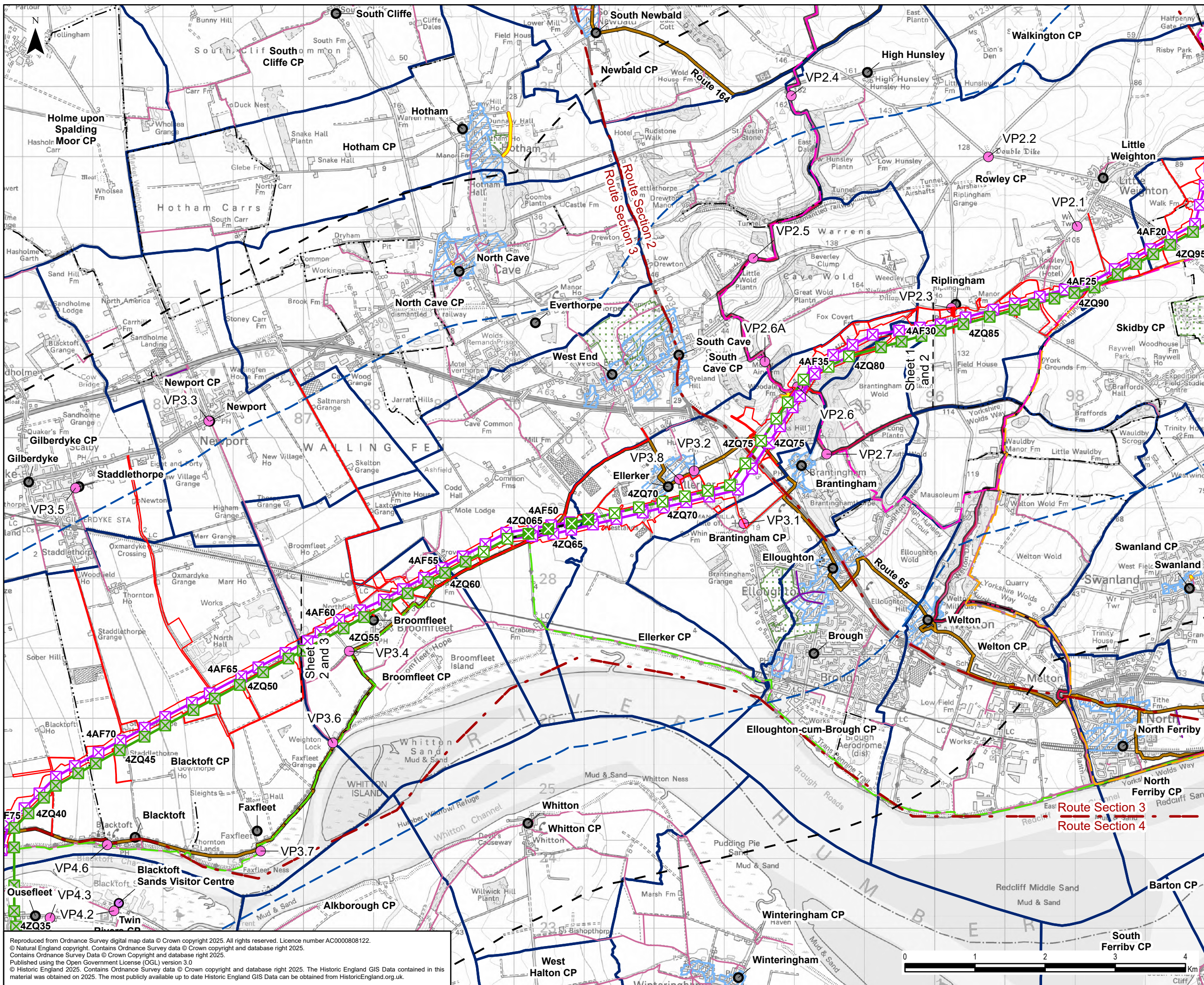
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 7.1 - VISUAL RECEPTORS AND VIEWPOINTS

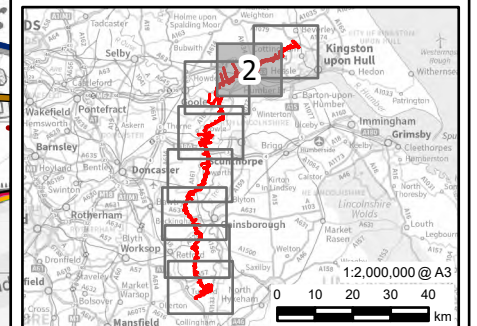
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**nationalgrid**

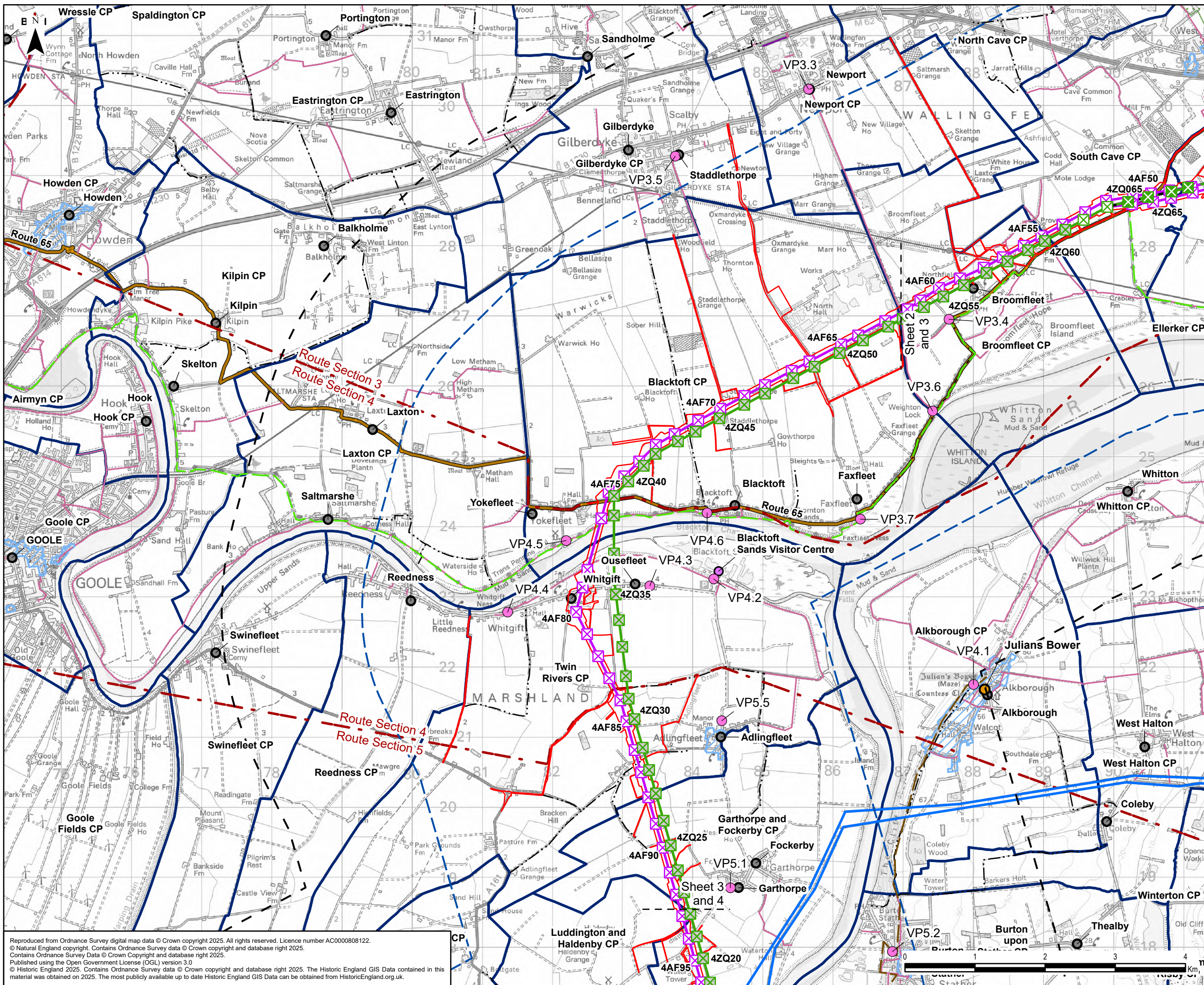
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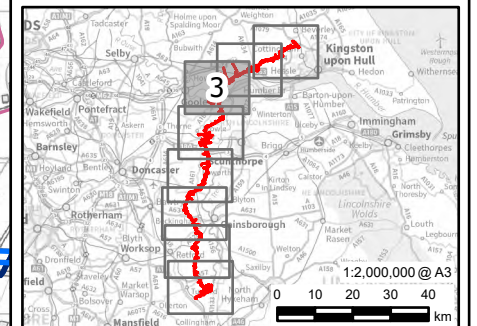
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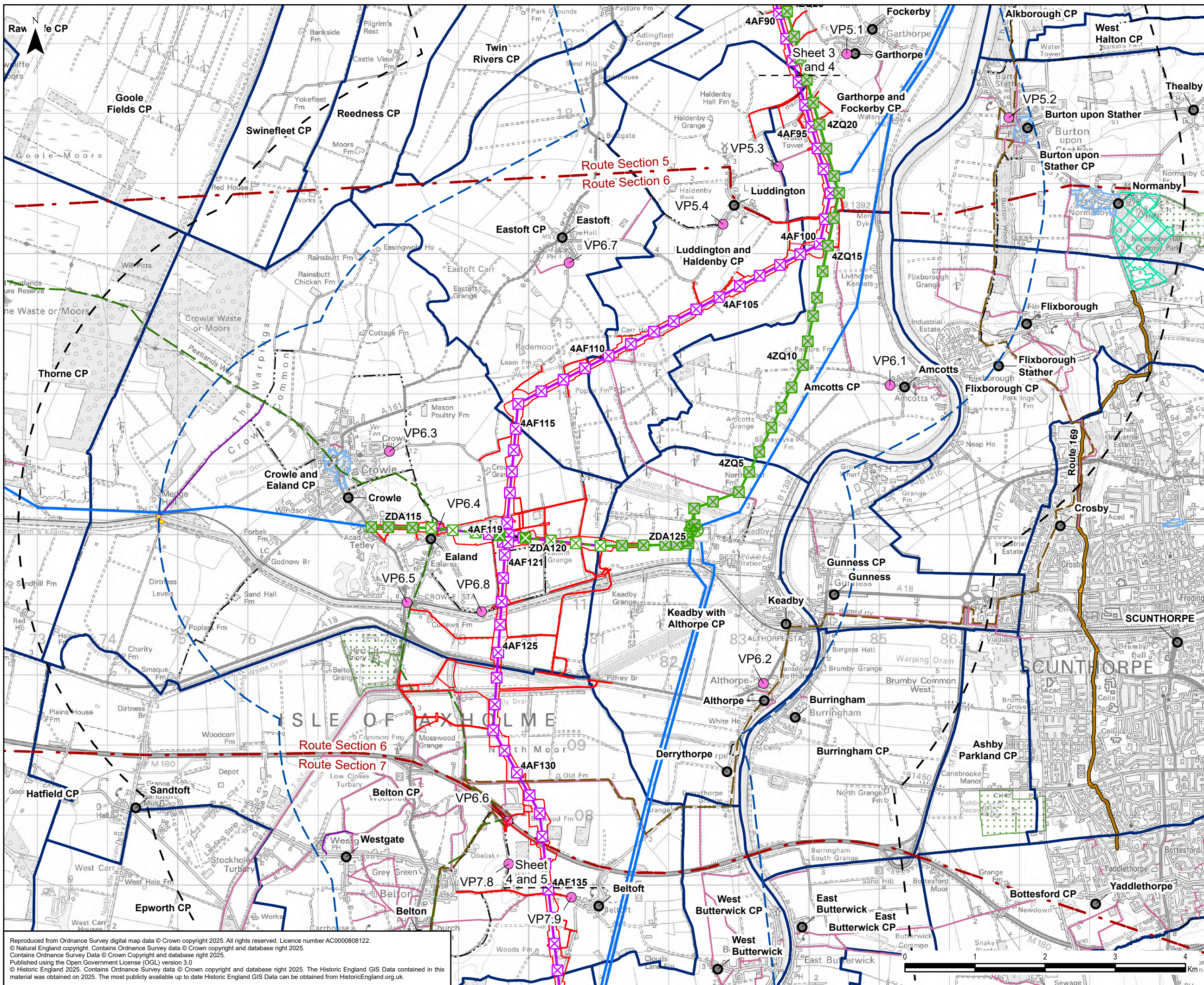
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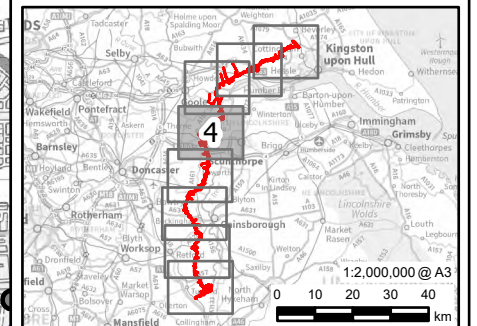
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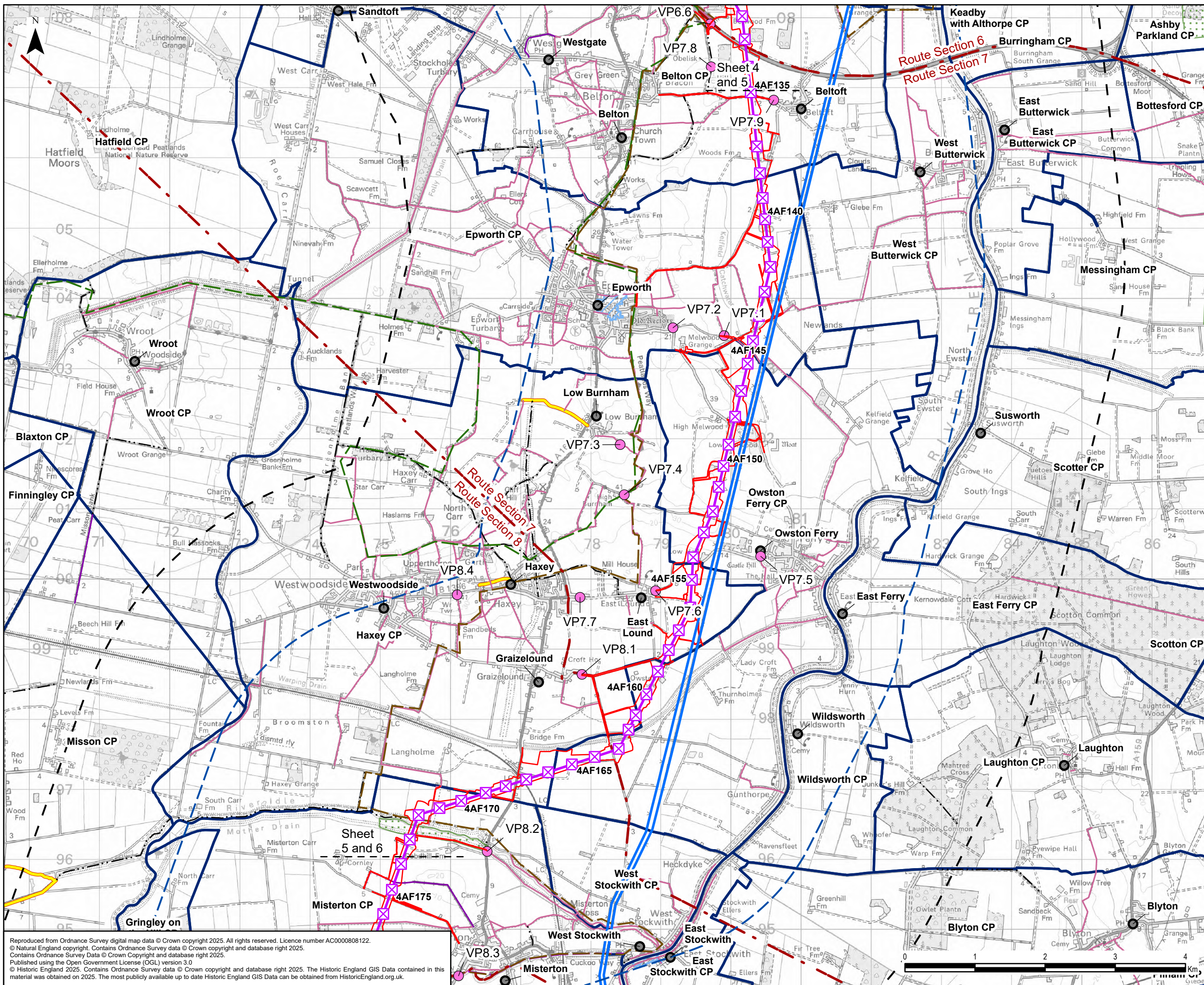
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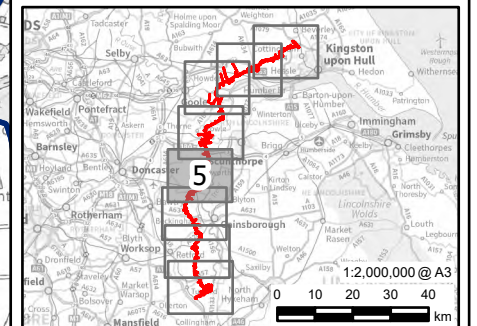
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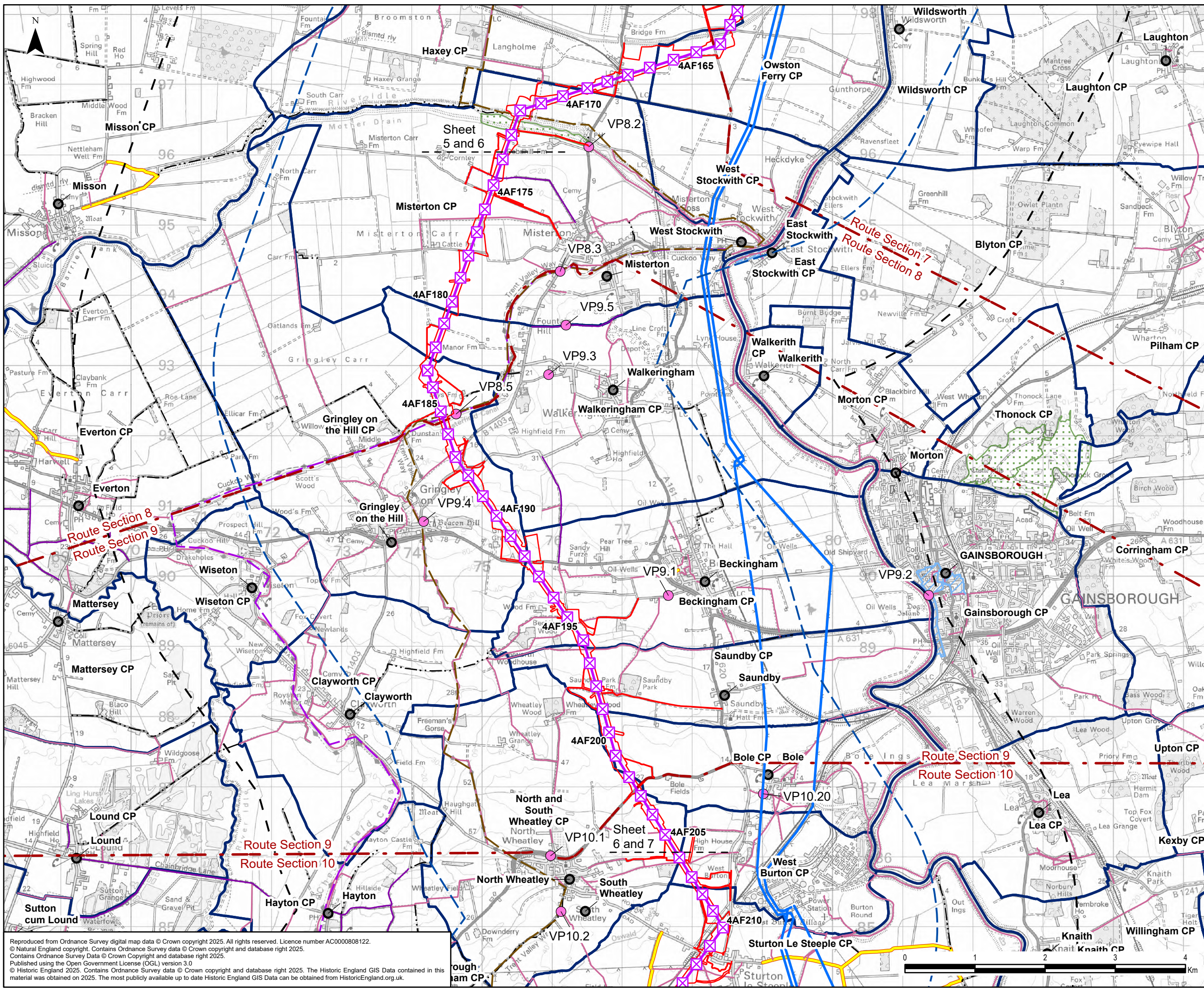
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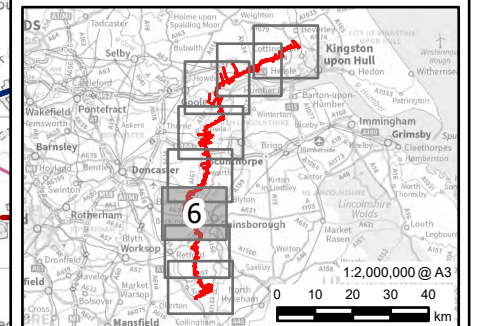
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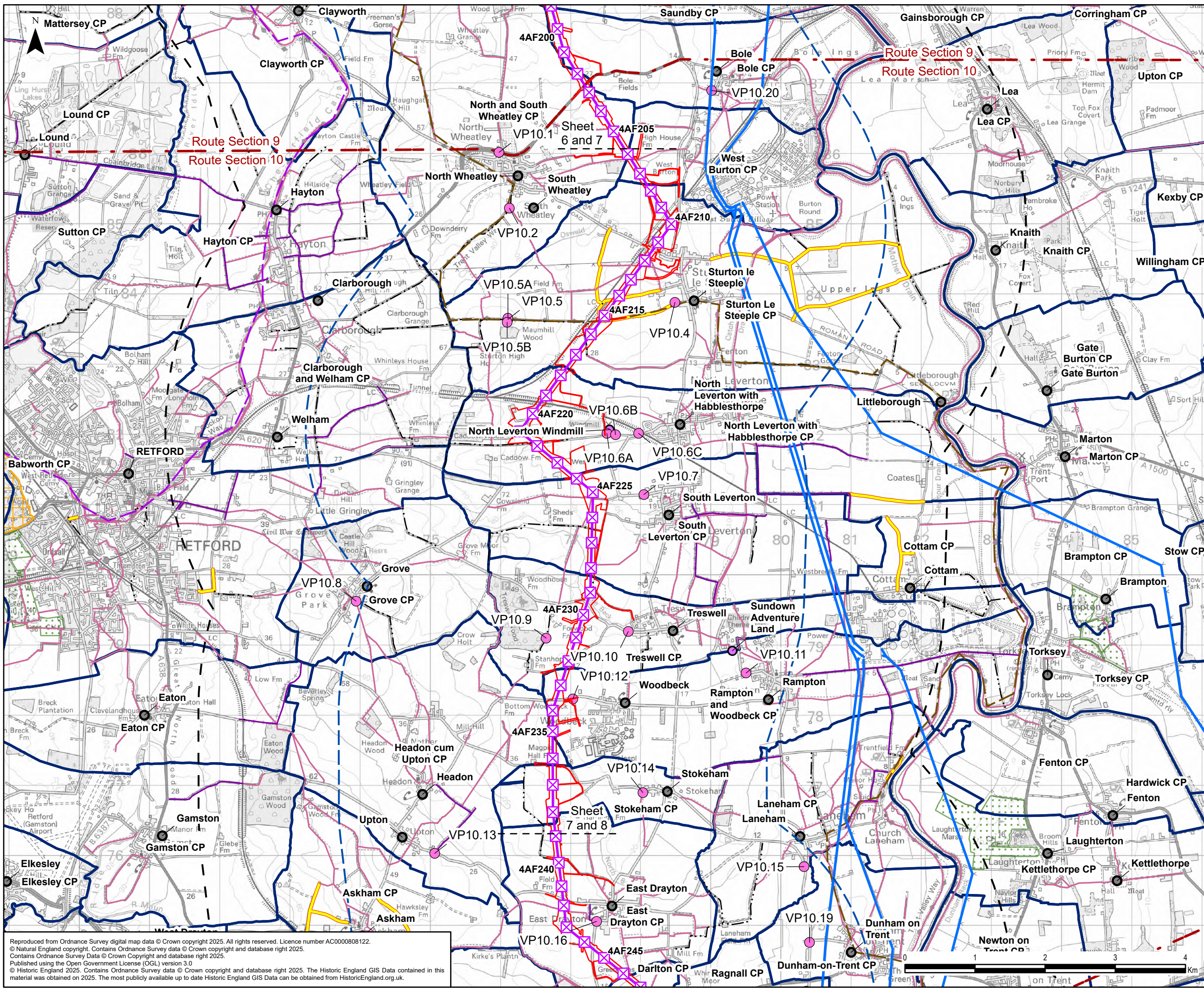


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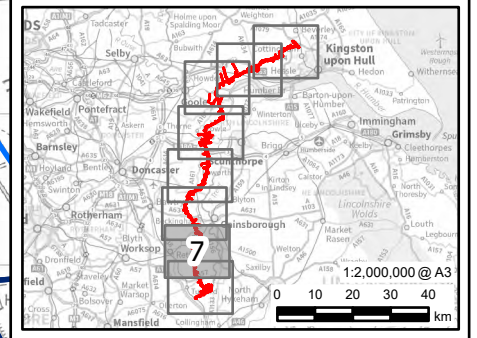
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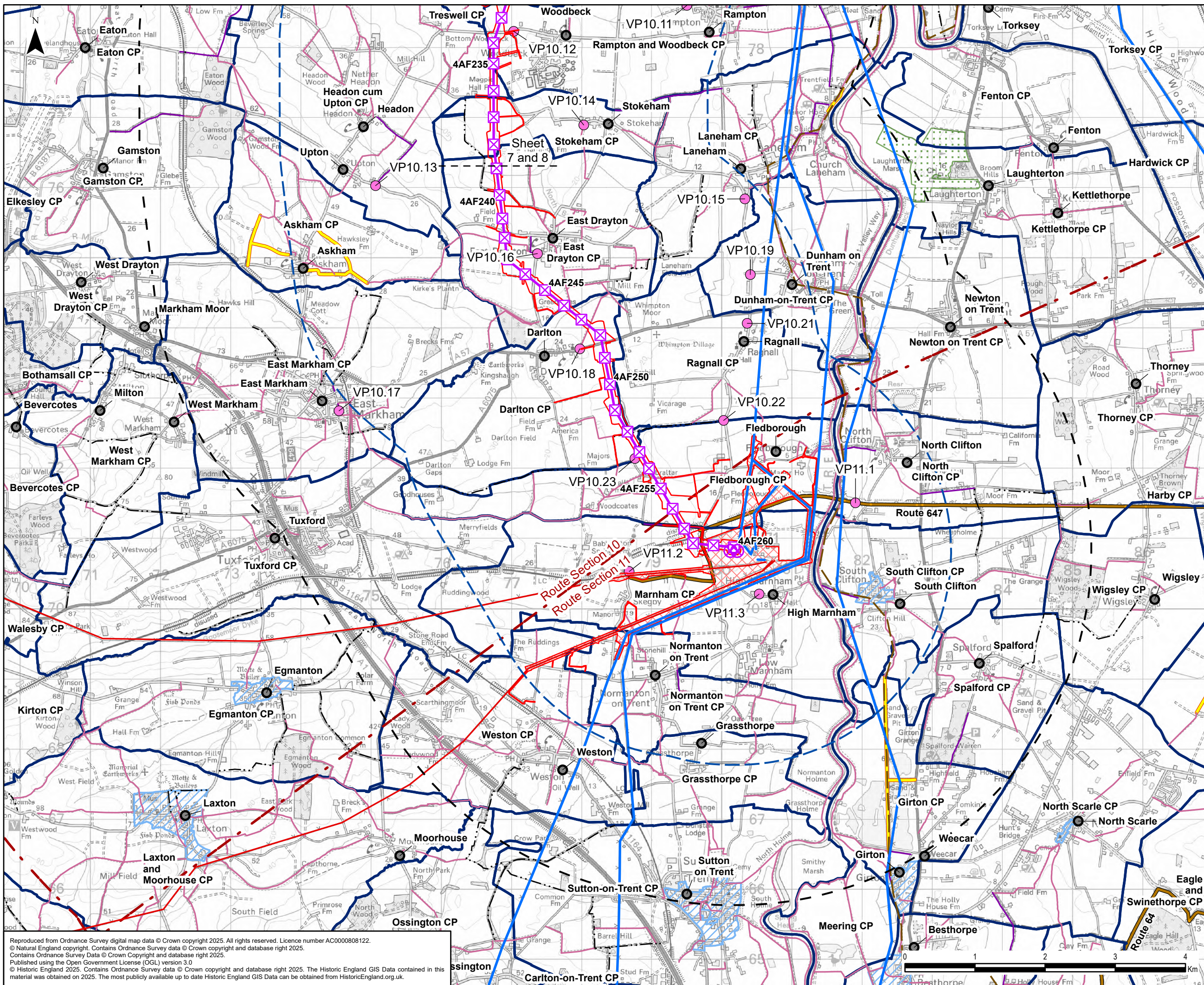
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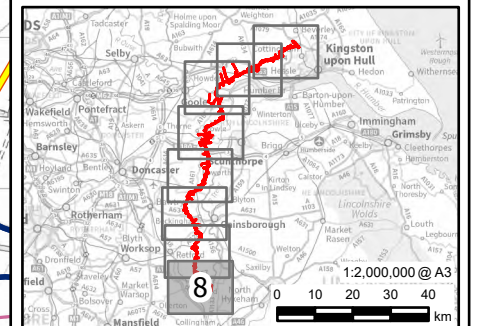
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### Legend

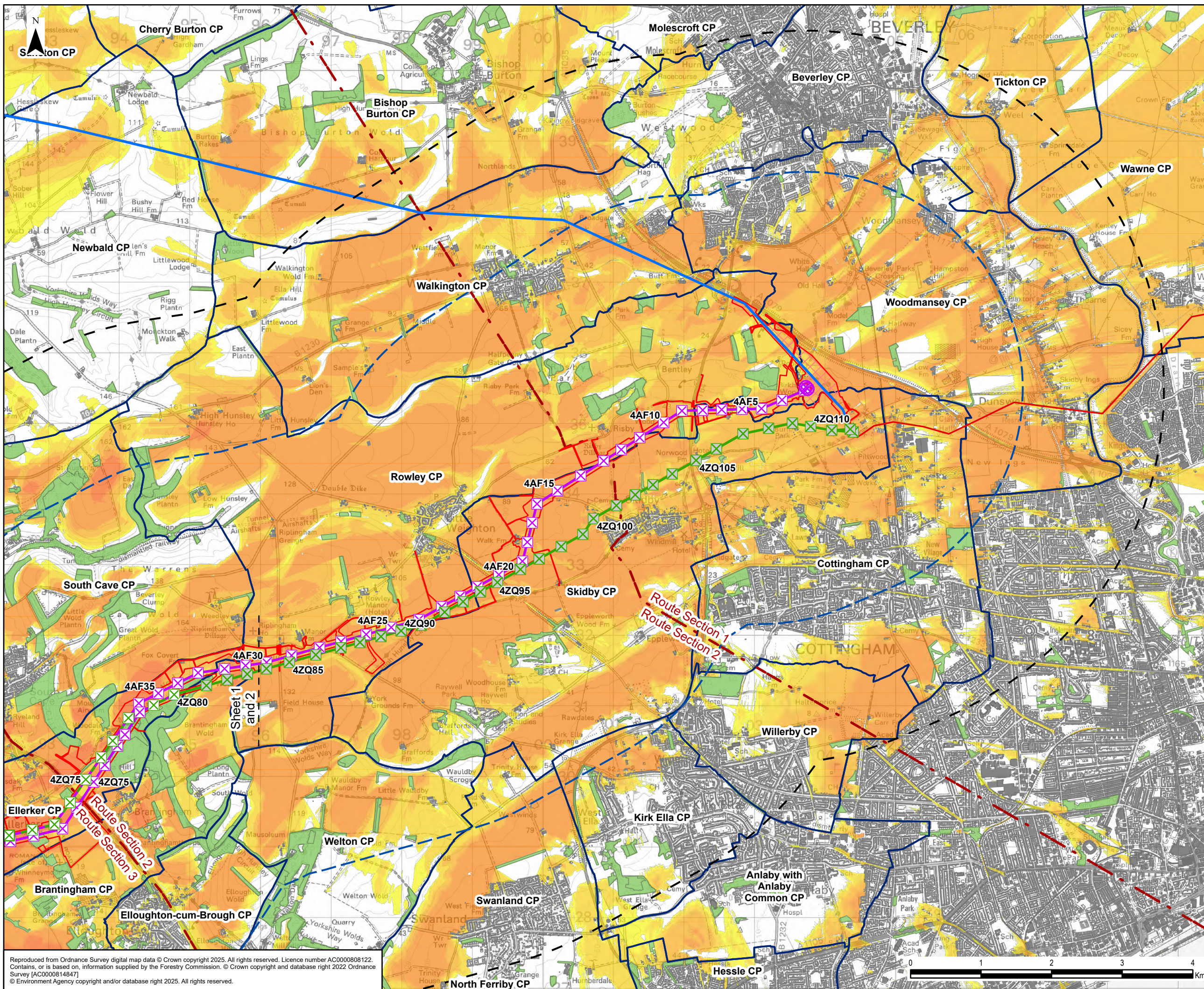
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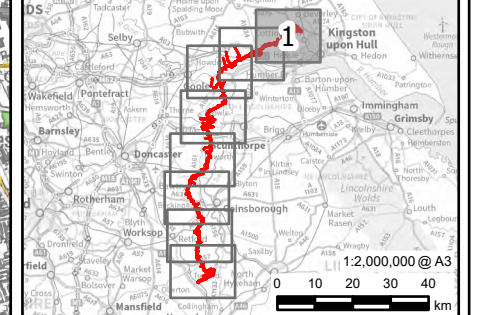
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  - Existing Overhead Line to be Dismantled
  - Existing Lattice Pylon Not Affected
  - Existing Lattice Pylon To Be Modified
  - Visual Technical Details
  - Civil Parish (CP)
  - Existing Building - 8 m Height
  - National Forest Inventory - Woodland - 15 m Height
  - Zone of Theoretical Visibility (ZTV)**
  - Number of New Pylons Partly or Entirely Visible**
  - 1 - 2
  - 3 - 10
  - 11 - 20
  - 21 - 40
  - 41 - 60
  - 61 - 70

Zone of Theoretical Visibility (ZTV) has been generated using Environment Agency 5m (DTM). The DTM does not take into account the screening effect of vegetation, buildings and other structures. Existing buildings have been incorporated into the DTM from OS OpenMap Local buildings with assigned individual heights at an assumed height of 8m. Woodland has been incorporated into the DTM from the National Forest Inventory with an assumed height of 15m. ZTV is based upon a point at each Indicative New Lattice Pylon and Indicative New Gantry at designed heights, with an observer height of 1.6m. Visual banding is due to view of each pylon/gantry being limited to 10km. All heights mentioned above are above ground level (AGL) unless otherwise specified.



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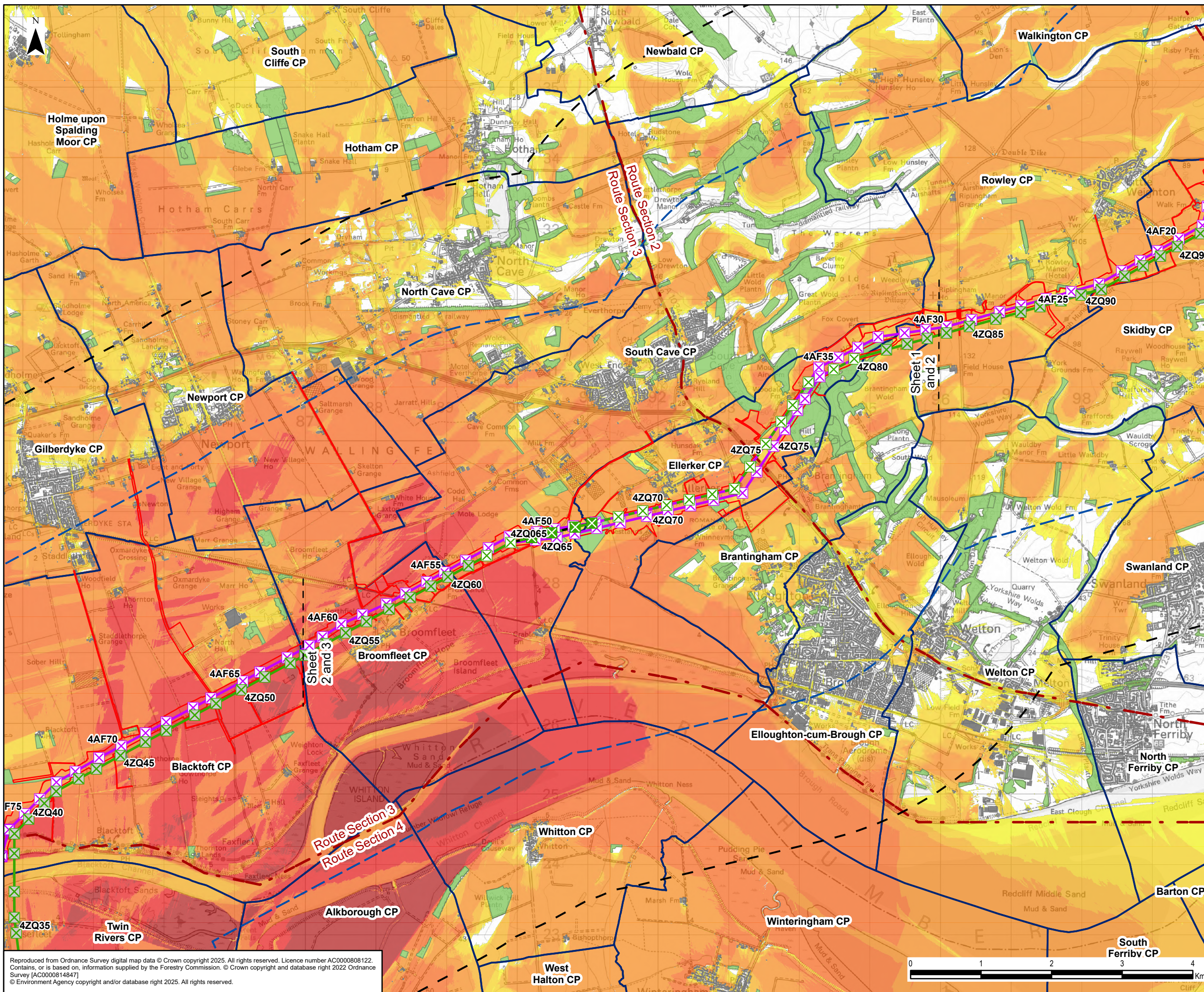
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**Legend**

- Draft Order Limits
- 3 km Study Area
- 5 km Study Area
- Route Section

**Proposed Project Design Details**

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
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**Visual Technical Details**

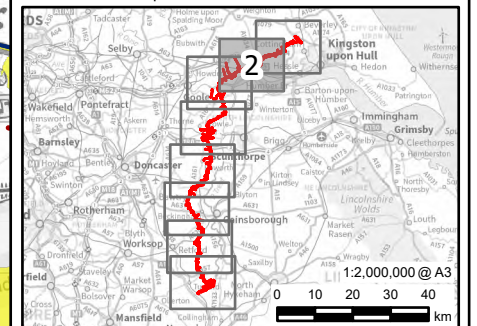
- Civil Parish (CP)
- Existing Building - 8 m Height
- National Forest Inventory - Woodland - 15 m Height

**Zone of Theoretical Visibility (ZTV)**

Number of New Pylons Partly or Entirely Visible

- 1 - 2
- 3 - 10
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- 21 - 40
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- 61 - 70
- 71 - 77

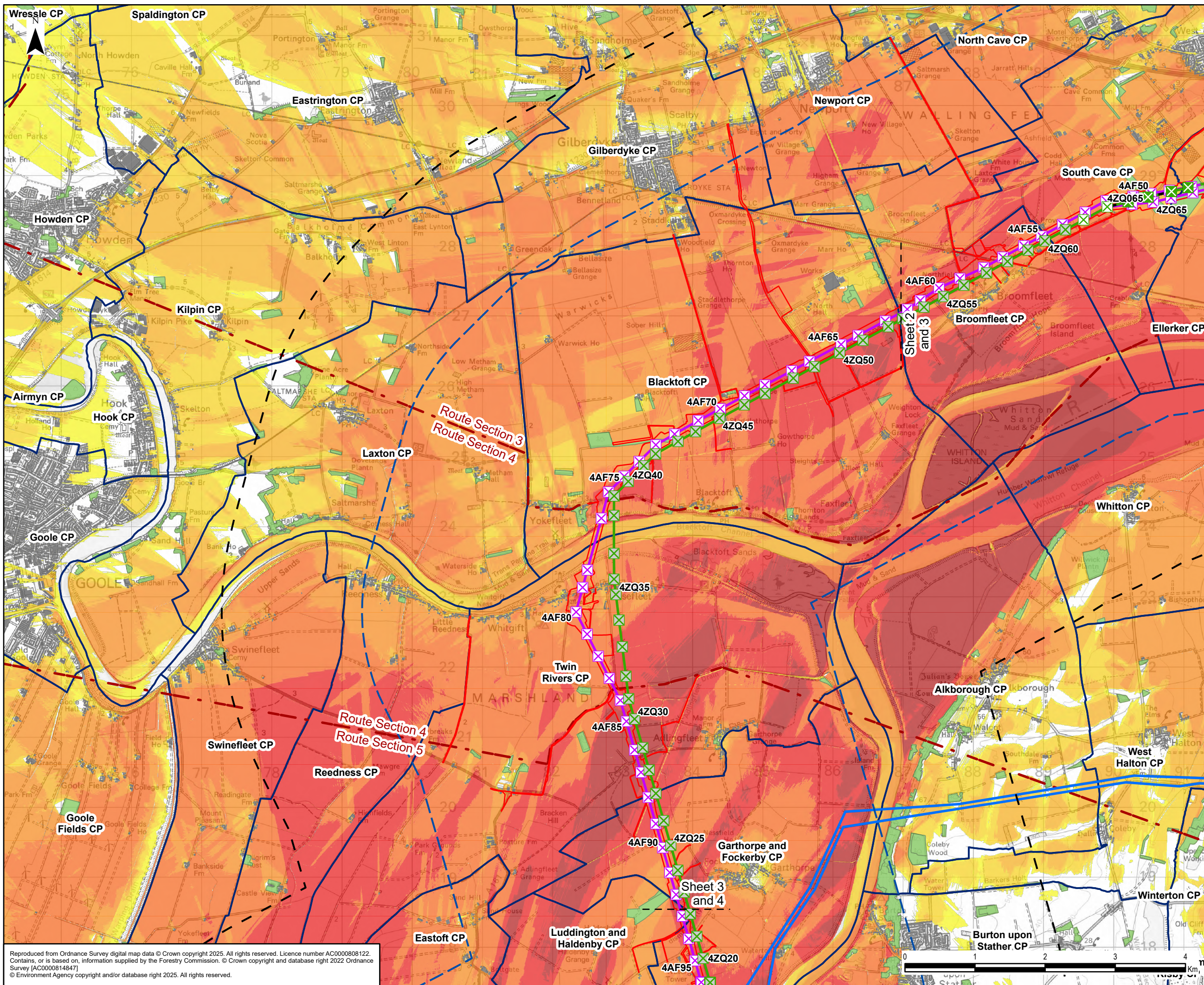
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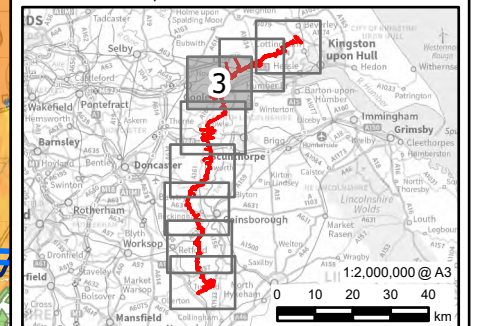




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Zone of Theoretical Visibility (ZTV) has been generated using Environment Agency 5m (DTM). The DTM does not take into account the screening effect of vegetation, buildings and other structures. Existing buildings have been incorporated into the DTM from OS OpenMap Local buildings with assigned individual heights at an assumed height of 8m. Woodland has been incorporated into the DTM from the National Forest Inventory with an assumed height of 15m. ZTV is based upon a point at each Indicative New Lattice Pylon and Indicative New Gantry at designed heights, with an observer height of 1.6m. Visual banding is due to view of each pylon/gantry being limited to 10km. All heights mentioned above are above ground level (AGL) unless otherwise specified.



0.1	29/01/2025	PEIR	JG	LC	HJ
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

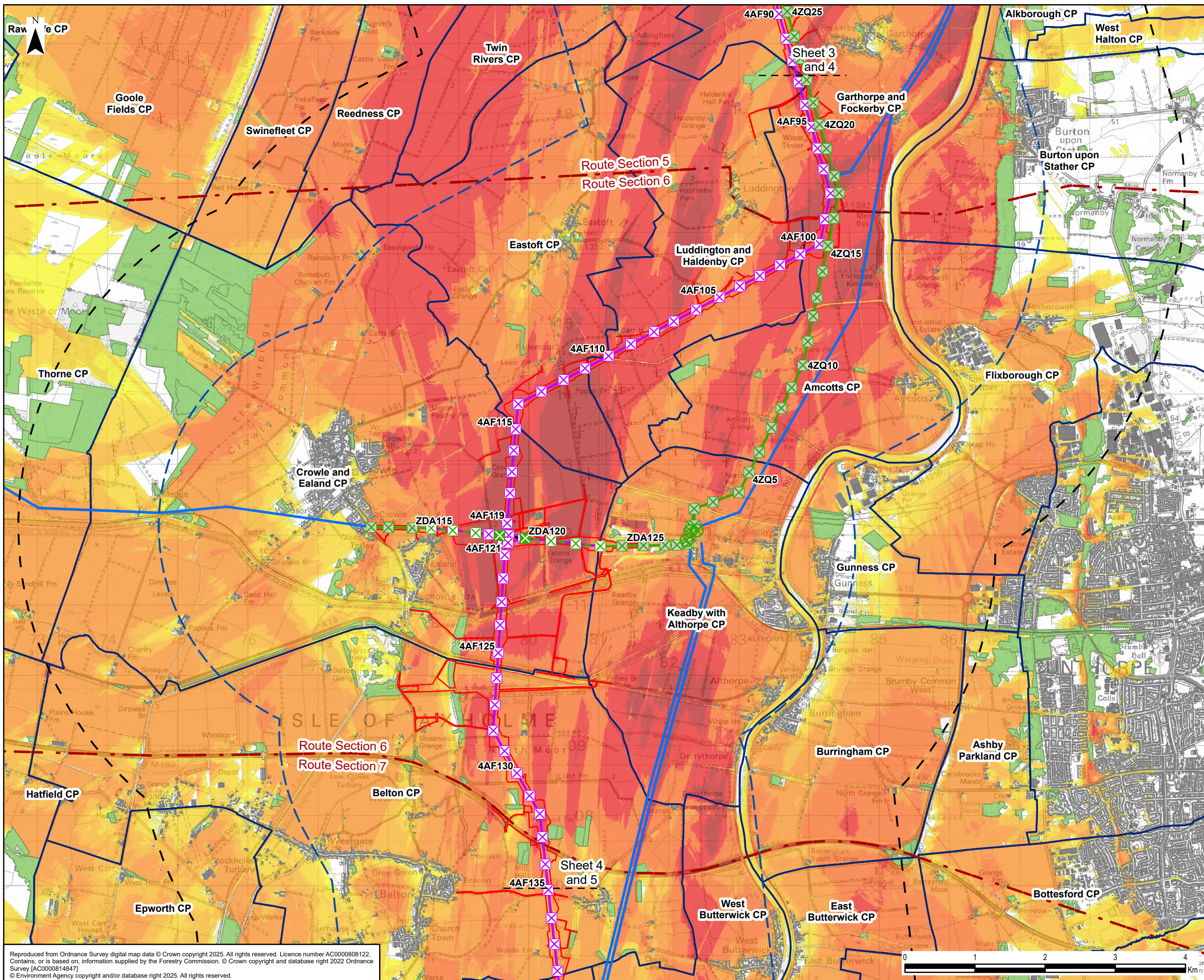
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 7.2 - ZONE OF THEORETICAL VISIBILITY (ZTV)

Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
7.2	1:50,000	A3	3 OF 8	0.1	

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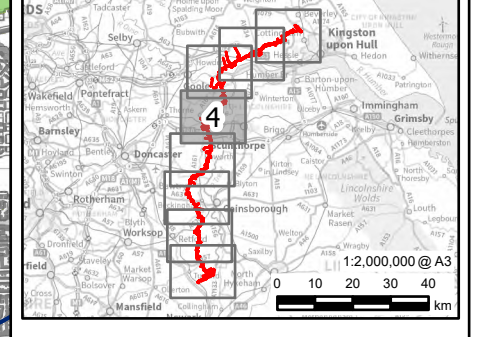




**Legend**

- Draft Order Limits
- 3 km Study Area
- 5 km Study Area
- Route Section
- Existing Overhead Line
- 400 kV
- Proposed Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconstructed
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Gantry Not Affected
- Existing Lattice Pylon To Be Removed
- Visual Technical Details
- Civil Parish (CP)
- Existing Building - 8 m Height
- National Forest Inventory - Woodland - 15 m Height
- Zone of Theoretical Visibility (ZTV)
- Number of New Pylons Partly or Entirely Visible
- 1 - 2
- 3 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 70
- 71 - 77

Zone of Theoretical Visibility (ZTV) has been generated using Environment Agency 5m (DTM). The DTM does not take into account the screening effect of vegetation, buildings and other structures. Existing buildings have been incorporated into the DTM from OS OpenMap Local buildings with assigned individual heights at an assumed height of 8m. Woodland has been incorporated into the DTM from the National Forest Inventory with an assumed height of 15m. ZTV is based upon a point at each Indicative New Lattice Pylon and Indicative New Gantry at designed heights, with an observer height of 1.6m. Visual banding is due to view of each pylon/gantry being limited to 10km. All heights mentioned above are above ground level (AGL) unless otherwise specified.



0.1	29/01/2025	PEIR	JG	LC	HJ
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

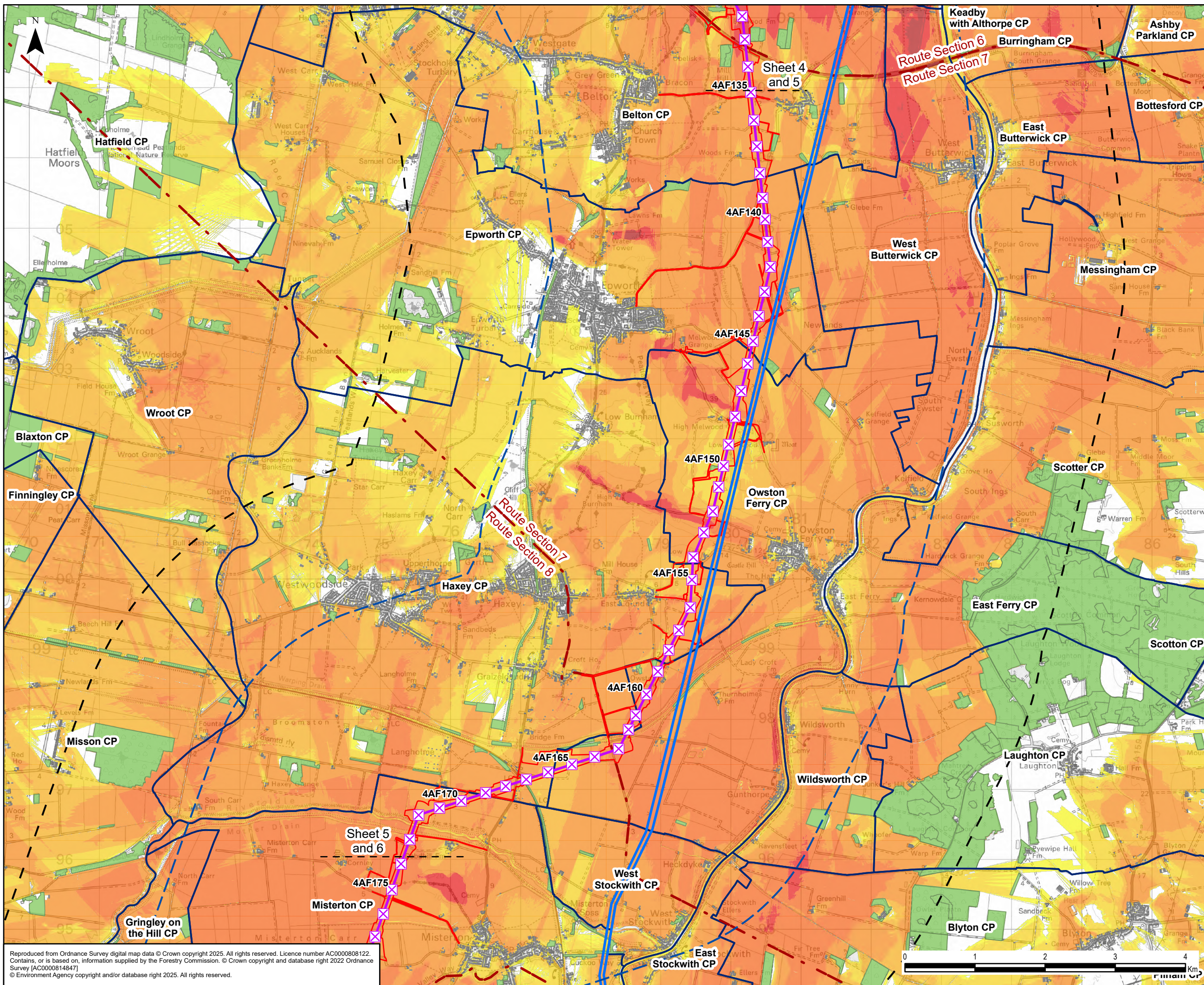
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 7.2 - ZONE OF THEORETICAL VISIBILITY (ZTV)

Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
7.2	1:50,000	A3	4 OF 8	0.1	

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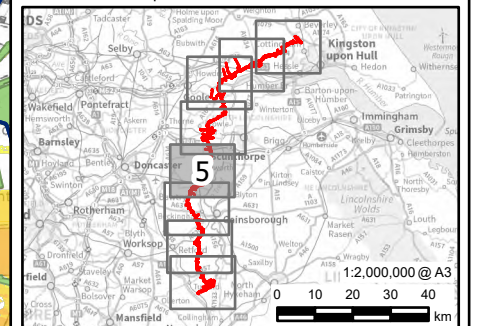




**Legend**

- Draft Order Limits
- 3 km Study Area
- 5 km Study Area
- Route Section
- Existing Overhead Line
- 400 kV
- Proposed Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Visual Technical Details
- Civil Parish (CP)
- Existing Building - 8 m Height
- National Forest Inventory - Woodland - 15 m Height
- Zone of Theoretical Visibility (ZTV)
- Number of New Pylons Partly or Entirely Visible
- 1 - 2
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Rev	Date	Description	GIS	Chk	App

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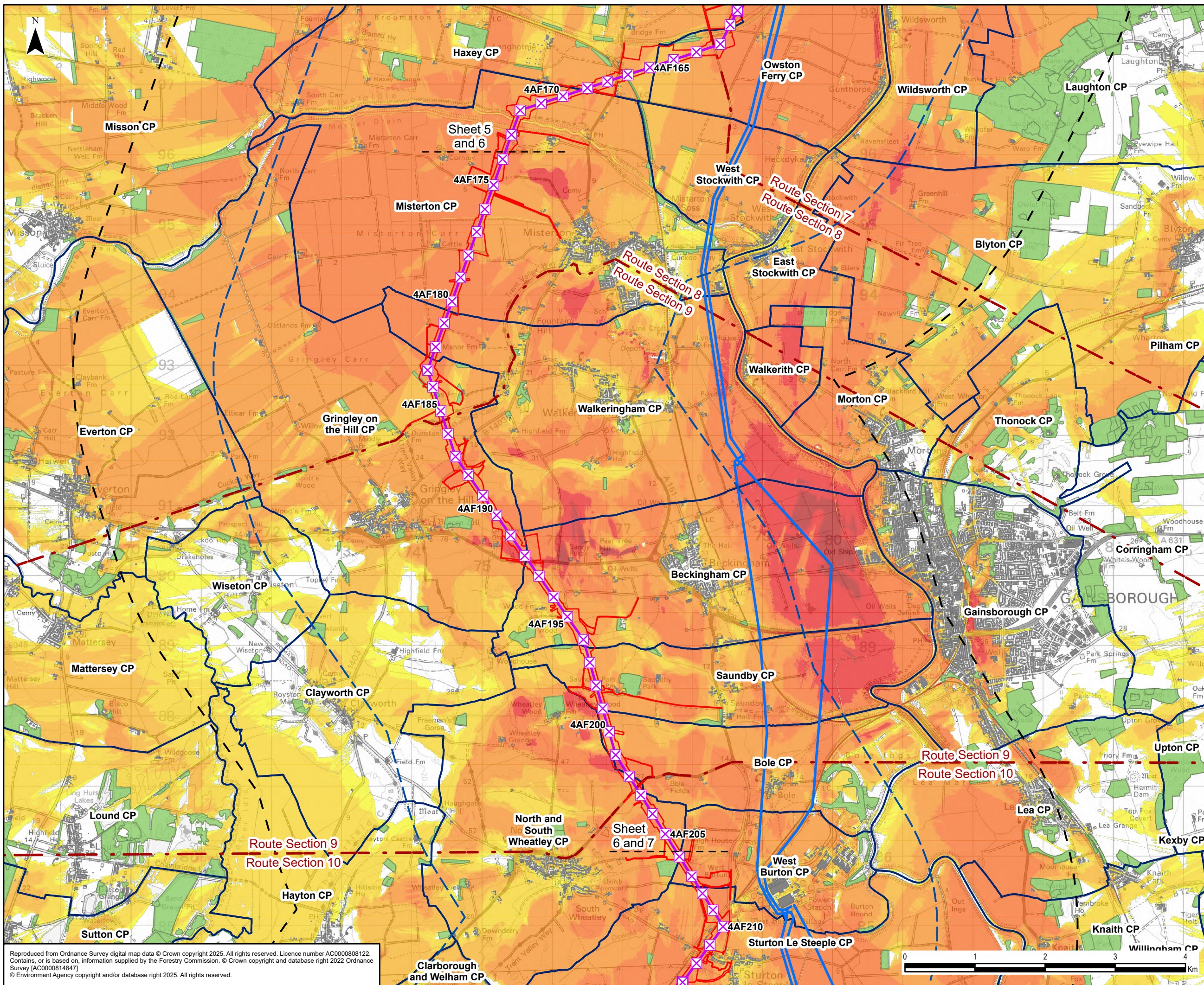
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 7.2 - ZONE OF THEORETICAL VISIBILITY (ZTV)

Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
7.2	1:50,000	A3	5 OF 8	0.1	

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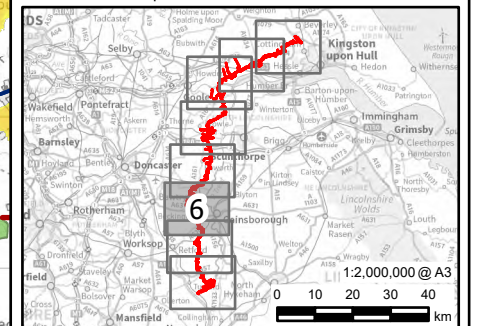




**Legend**

- Draft Order Limits
- 3 km Study Area
- 5 km Study Area
- Route Section
- Existing Overhead Line
- 400 kV
- Proposed Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Visual Technical Details
- Civil Parish (CP)
- Existing Building - 8 m Height
- National Forest Inventory - Woodland - 15 m Height
- Zone of Theoretical Visibility (ZTV)
- Number of New Pylons Partly or Entirely Visible
- 1 - 2
- 3 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 70
- 71 - 77

Zone of Theoretical Visibility (ZTV) has been generated using Environment Agency 5m (DTM). The DTM does not take into account the screening effect of vegetation, buildings and other structures. Existing buildings have been incorporated into the DTM from OS OpenMap Local buildings with assigned individual heights at an assumed height of 8m. Woodland has been incorporated into the DTM from the National Forest Inventory with an assumed height of 15m. ZTV is based upon a point at each Indicative New Lattice Pylon and Indicative New Gantry at designed heights, with an observer height of 1.6m. Visual banding is due to view of each pylon/gantry being limited to 10km. All heights mentioned above are above ground level (AGL) unless otherwise specified.



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Rev	Date	Description	GIS	Chk	App

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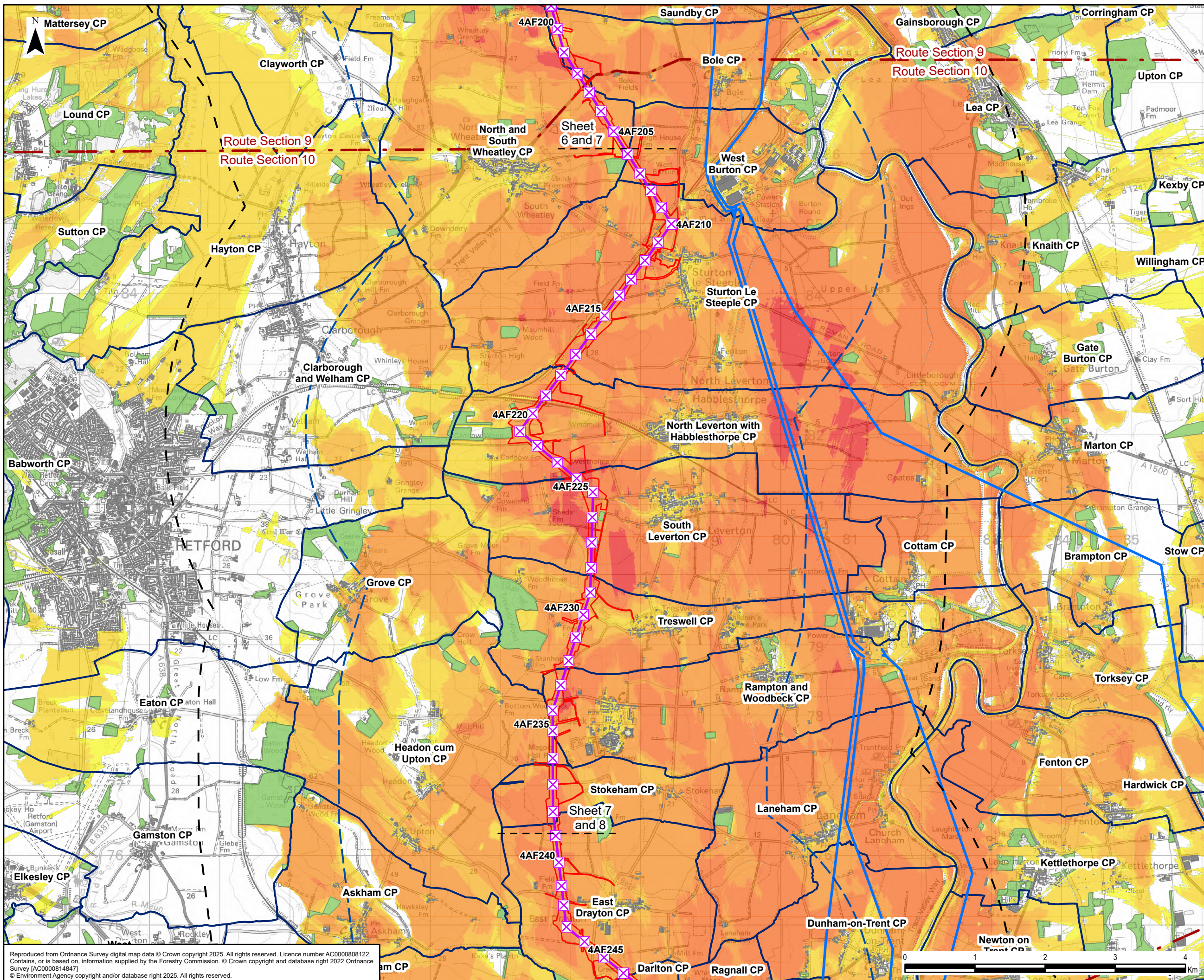
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 7.2 - ZONE OF THEORETICAL VISIBILITY (ZTV)

Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025
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7.2	1:50,000	A3	6 OF 8	0.1	

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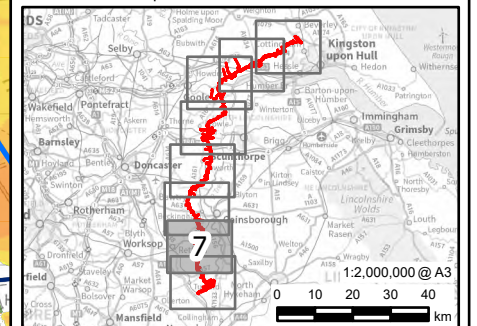




**Legend**

- Draft Order Limits
- 3 km Study Area
- 5 km Study Area
- Route Section
- Existing Overhead Line
- 400 kV
- Proposed Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Visual Technical Details
- Civil Parish (CP)
- Existing Building - 8 m Height
- National Forest Inventory - Woodland - 15 m Height
- Zone of Theoretical Visibility (ZTV)
- Number of New Pylons Partly or Entirely Visible
- 1 - 2
- 3 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 70

Zone of Theoretical Visibility (ZTV) has been generated using Environment Agency 5m (DTM). The DTM does not take into account the screening effect of vegetation, buildings and other structures. Existing buildings have been incorporated into the DTM from OS OpenMap Local buildings with assigned individual heights at an assumed height of 8m. Woodland has been incorporated into the DTM from the National Forest Inventory with an assumed height of 15m. ZTV is based upon a point at each Indicative New Lattice Pylon and Indicative New Gantry at designed heights, with an observer height of 1.6m. Visual banding is due to view of each pylon/gantry being limited to 10km. All heights mentioned above are above ground level (AGL) unless otherwise specified.



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Scheme: NORTH HUMBER TO HIGH MARNHAM

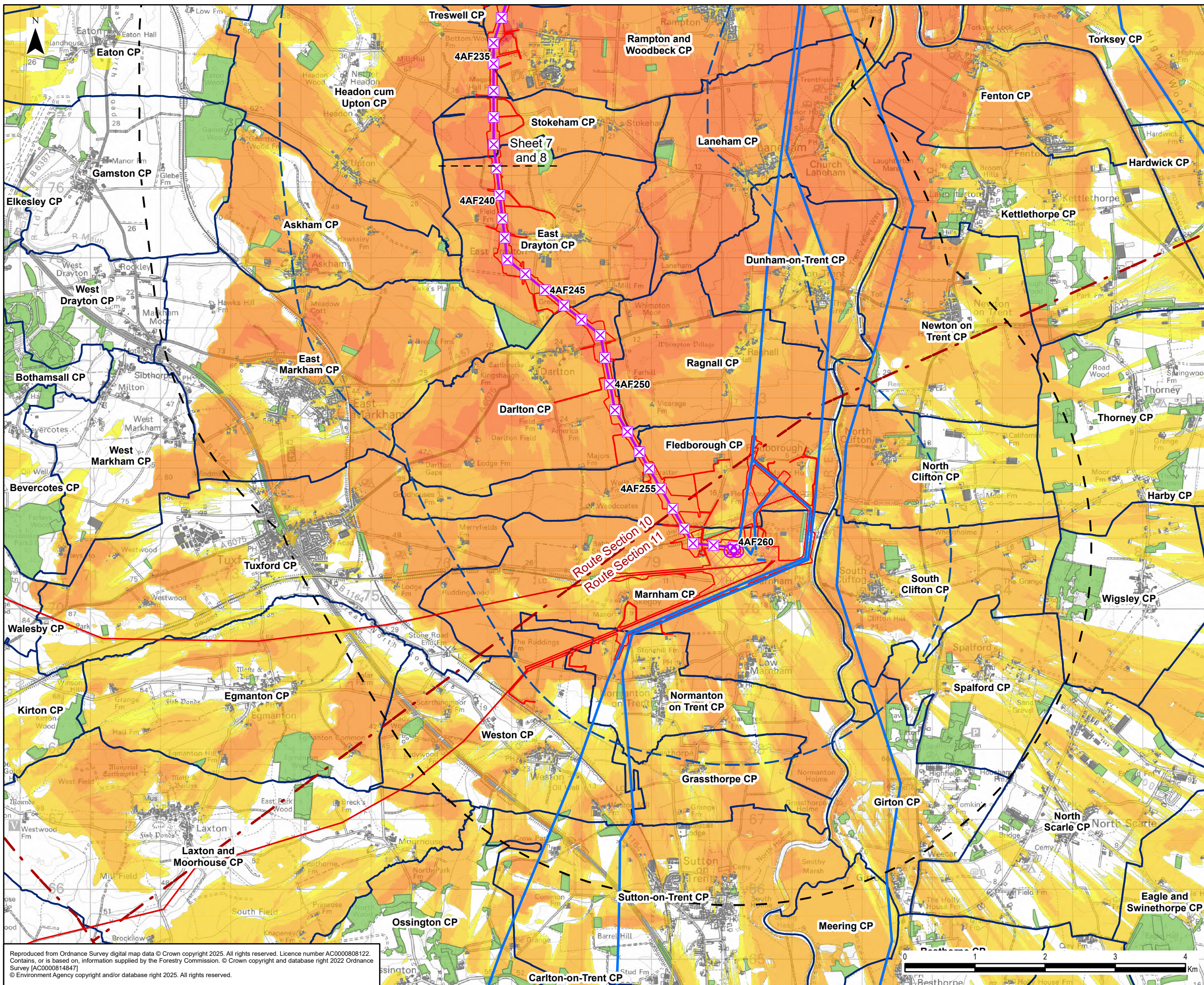
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JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025

Figure Ref:	Scale:	Format:	Sheets:	Rev:
7.2	1:50,000	A3	7 OF 8	0.1

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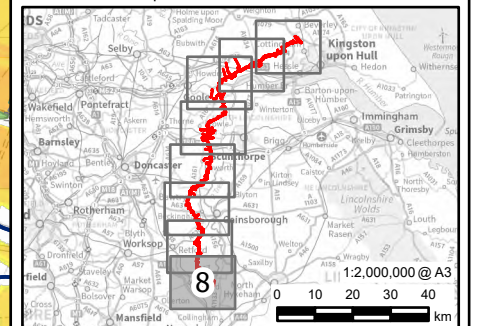




**Legend**

- Draft Order Limits
- Proposed Substation Works
- 3 km Study Area
- 5 km Study Area
- Route Section
- Existing Overhead Line
  - 275 kV
  - 400 kV
- Proposed Project Design Details
  - Indicative New Overhead Line
  - Indicative New Lattice Pylon
  - Indicative New Gantry
- Visual Technical Details
  - Civil Parish (CP)
  - Existing Building - 8 m Height
  - National Forest Inventory - Woodland - 15 m Height
- Zone of Theoretical Visibility (ZTV)
  - Number of New Pylons Partly or Entirely Visible
    - 1 - 2
    - 3 - 10
    - 11 - 20
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<b>nationalgrid</b>					
Scheme: NORTH HUMBER TO HIGH MARNHAM					
Figure Title: FIGURE 7.2 - ZONE OF THEORETICAL VISIBILITY (ZTV)					
Creator:	Date:	Checker:	Date:	Approver:	Date:
JG	29/01/2025	LC	29/01/2025	HJ	29/01/2025
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