

Preliminary Environmental Information Report

Volume 2: Chapter 16 Figures

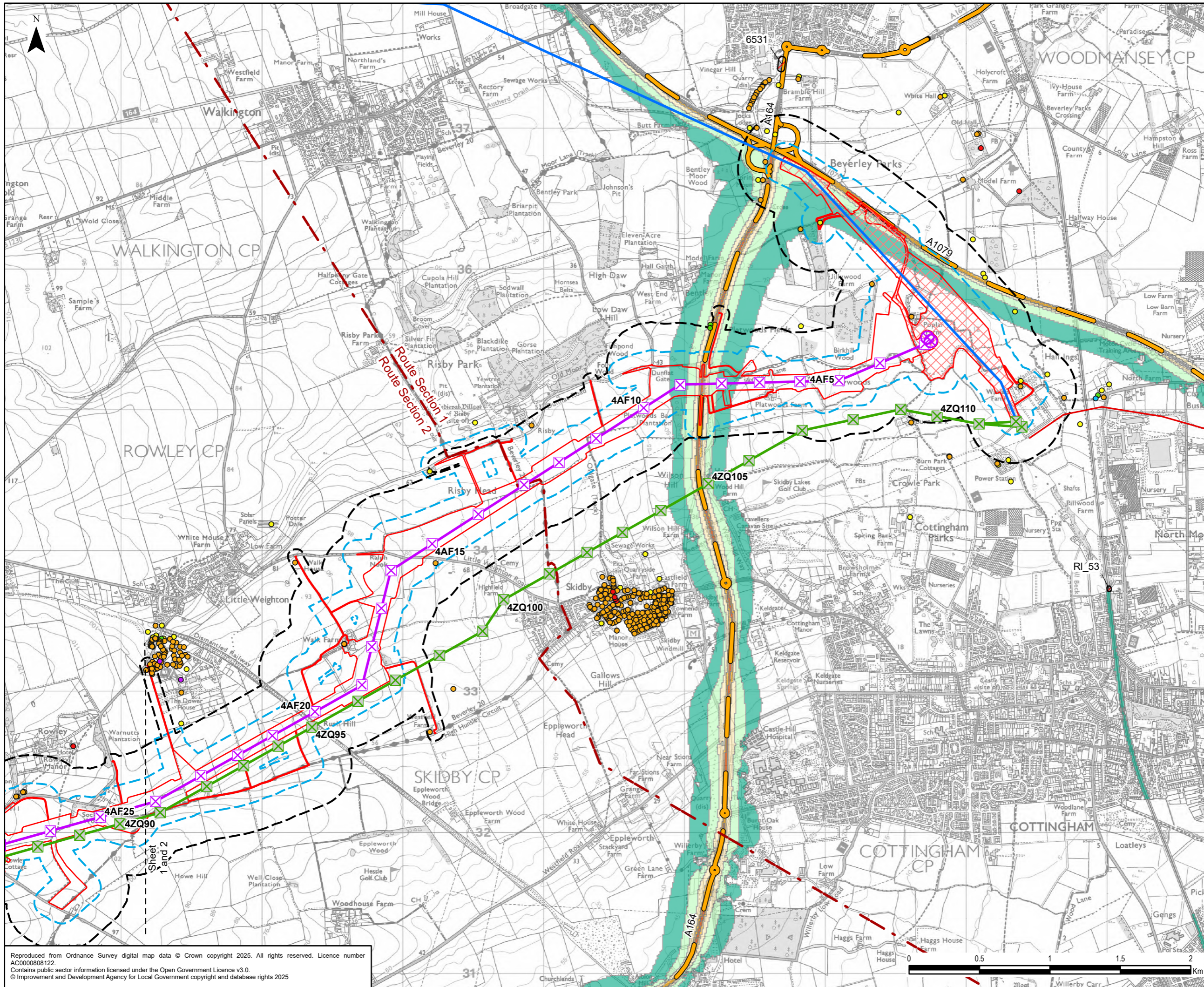
February 2025



The Great Grid Upgrade

North Humber to High Marnham

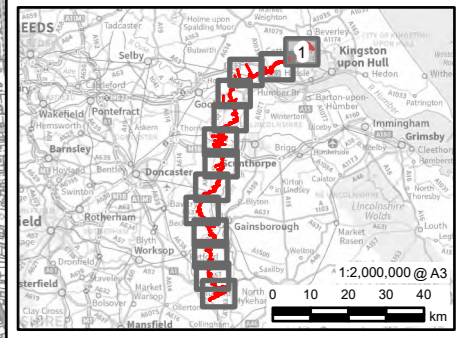
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Legend

- Draft Order Limits
- Proposed Substation Works
- 100 m Construction Vibration Study Area
- Construction Noise Study Area¹
- 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 Lattice Pylon Not Affected
- Noise and Vibration Data
 - Major Transport Route
 - Department for Environment, Food & Rural Affairs (DEFRA) Noise Important Area
 - Department for Environment, Food & Rural Affairs Road Noise, dBA
 - 55.0-59.9
 - 60.0-64.9
 - 65.0-69.9
 - 70.0-74.9
 - >=75.0
 - Department for Environment, Food & Rural Affairs Rail Noise, dBA
 - 55.0-59.9
- Address Receptor
 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Education
 - Residential
 - Other

Note: 1. The construction noise study area is comprised of a 300m study area from construction activities and 50m from roads within the draft Order Limits



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Rev	Date	Description	GIS	Chk	App

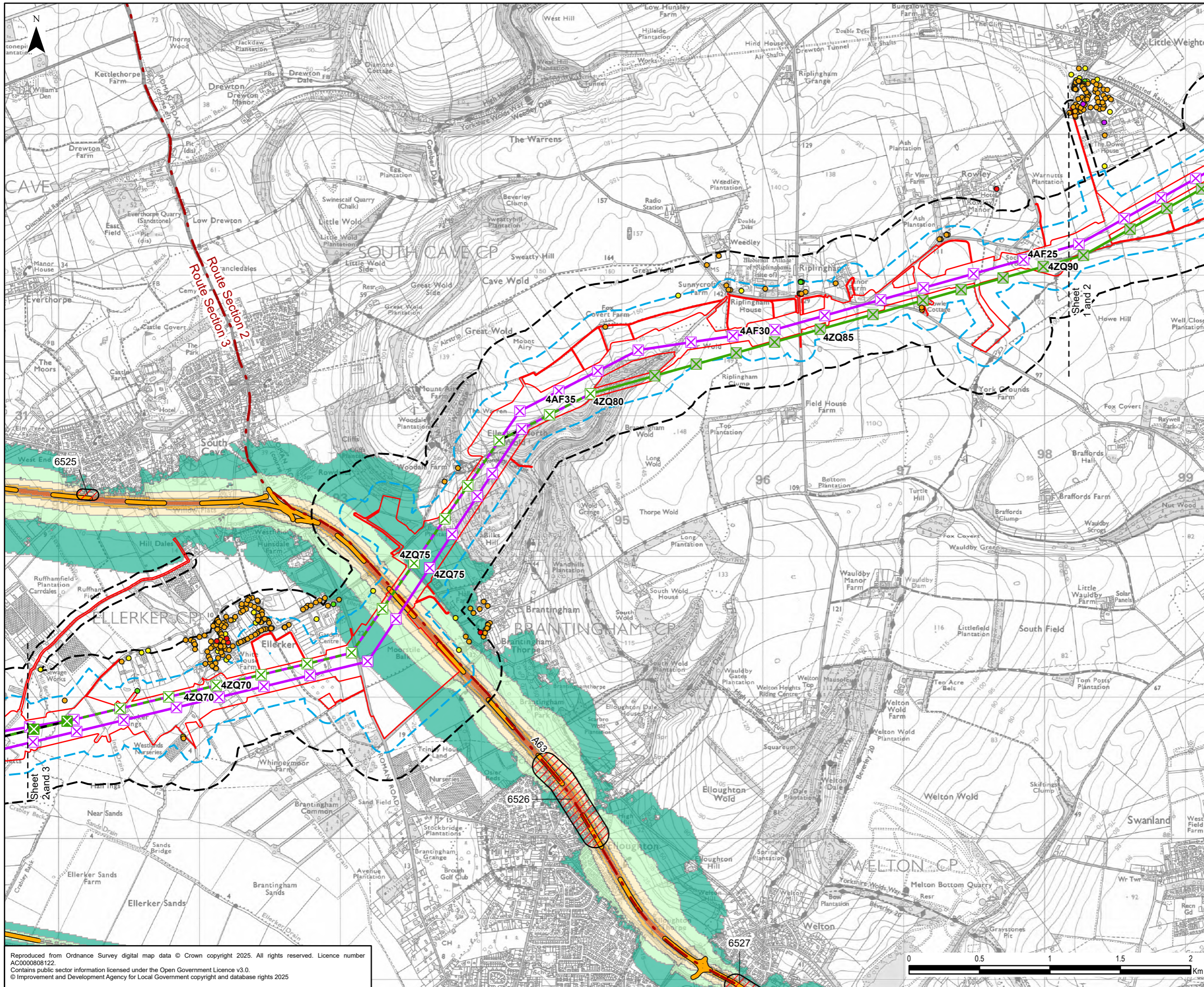
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: **FIGURE 16.1 - BASELINE CONDITIONS**

Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.1	Scale: 1:25,000	Format: A3	Sheets: 1 OF 13	Rev: 0.1	

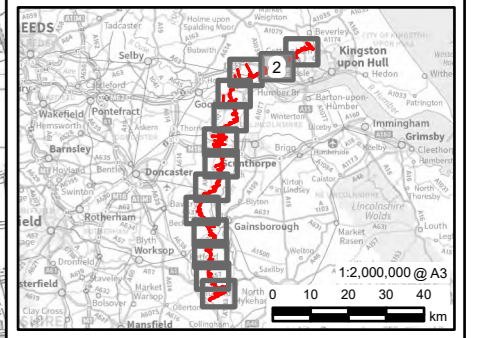
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- 100 m Construction Vibration Study Area
- Construction Noise Study Area¹
- Route Section
- Proposed Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconstructed
- Existing Overhead Line to be Dismantled
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- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
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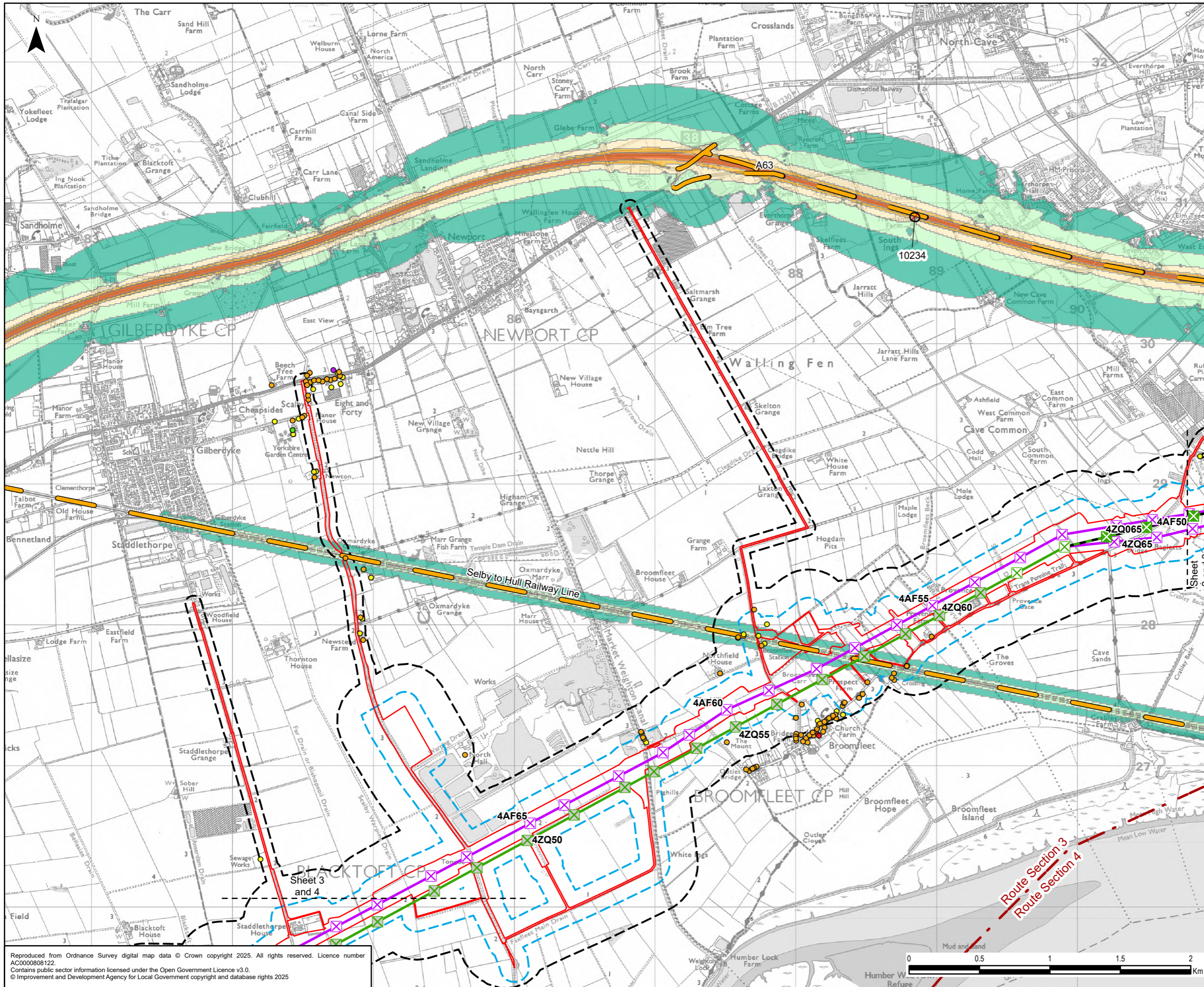
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Proposed Project Design Details

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- Indicative New Lattice Pylon
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- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
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- Existing Lattice Pylon To Be Removed

Noise and Vibration Data

- Major Transport Route
- Department for Environment, Food & Rural Affairs (DEFRA) Noise Important Area

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- 60.0-64.9
- 65.0-69.9
- 70.0-74.9
- >=75.0

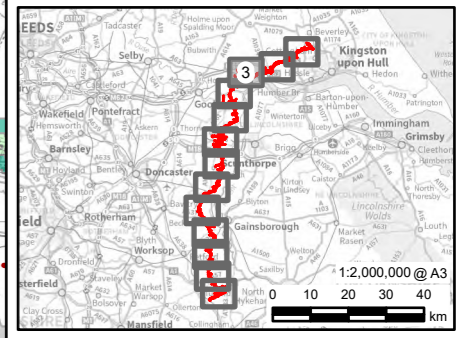
Department for Environment, Food & Rural Affairs Rail Noise, dBA

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Address Receptor

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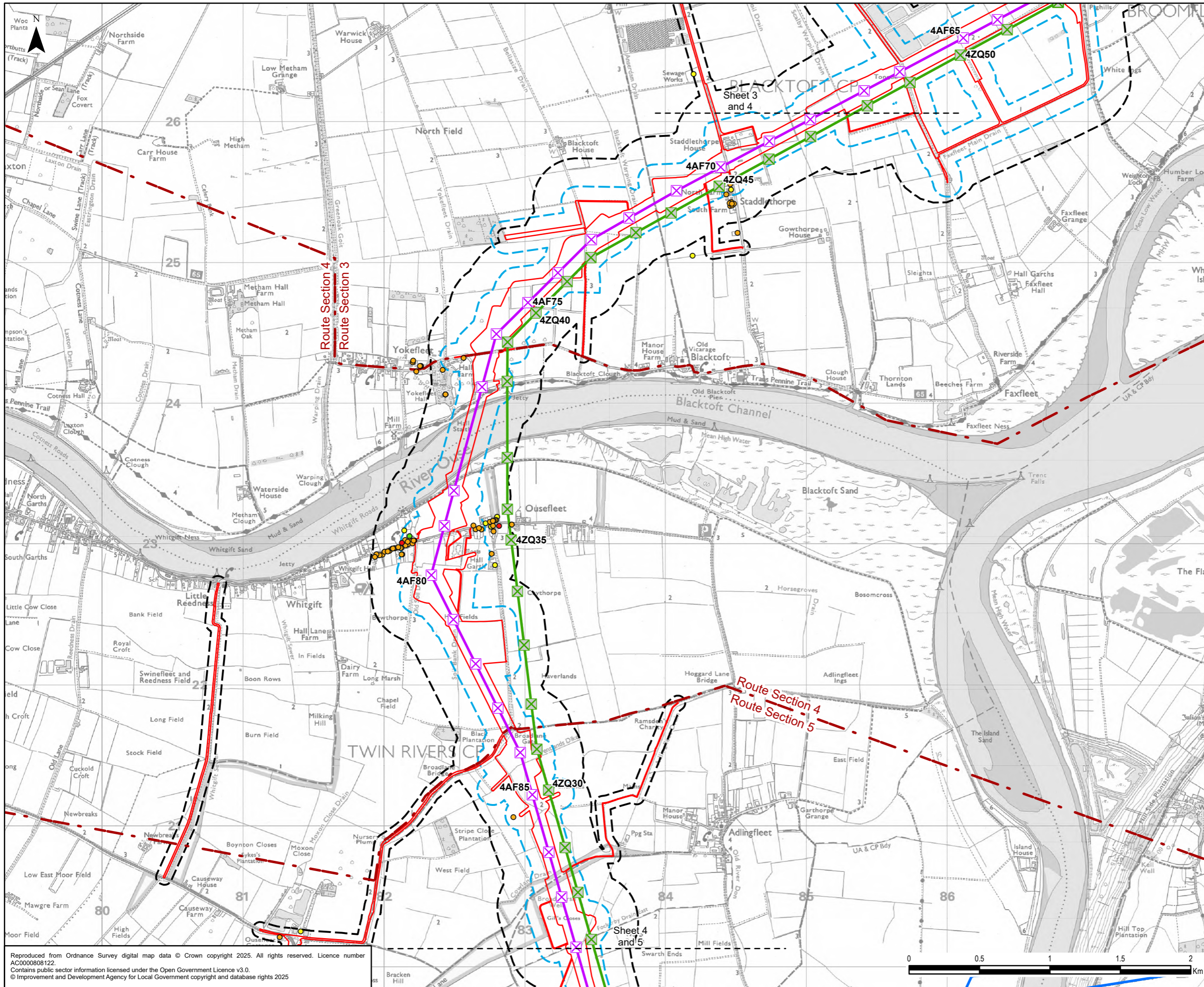
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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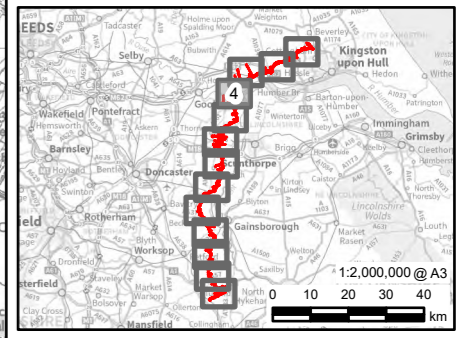
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- Construction Noise Study Area¹
- Route Section
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- 400 kV
- Proposed Project Design Details**
- Indicative New Overhead Line
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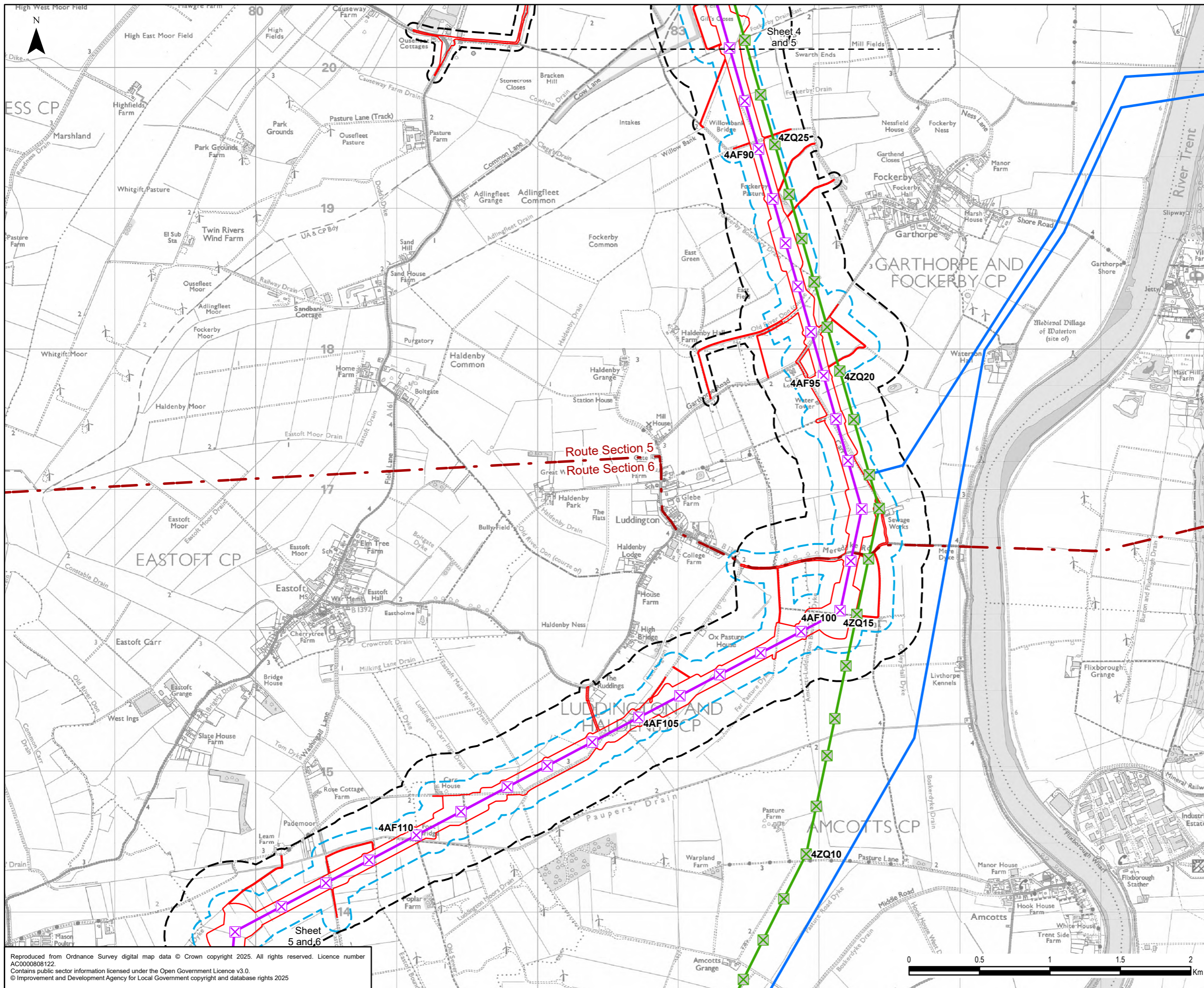
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM
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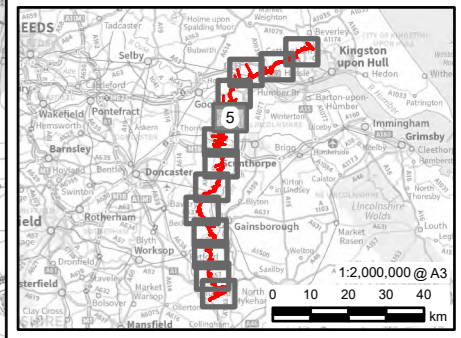
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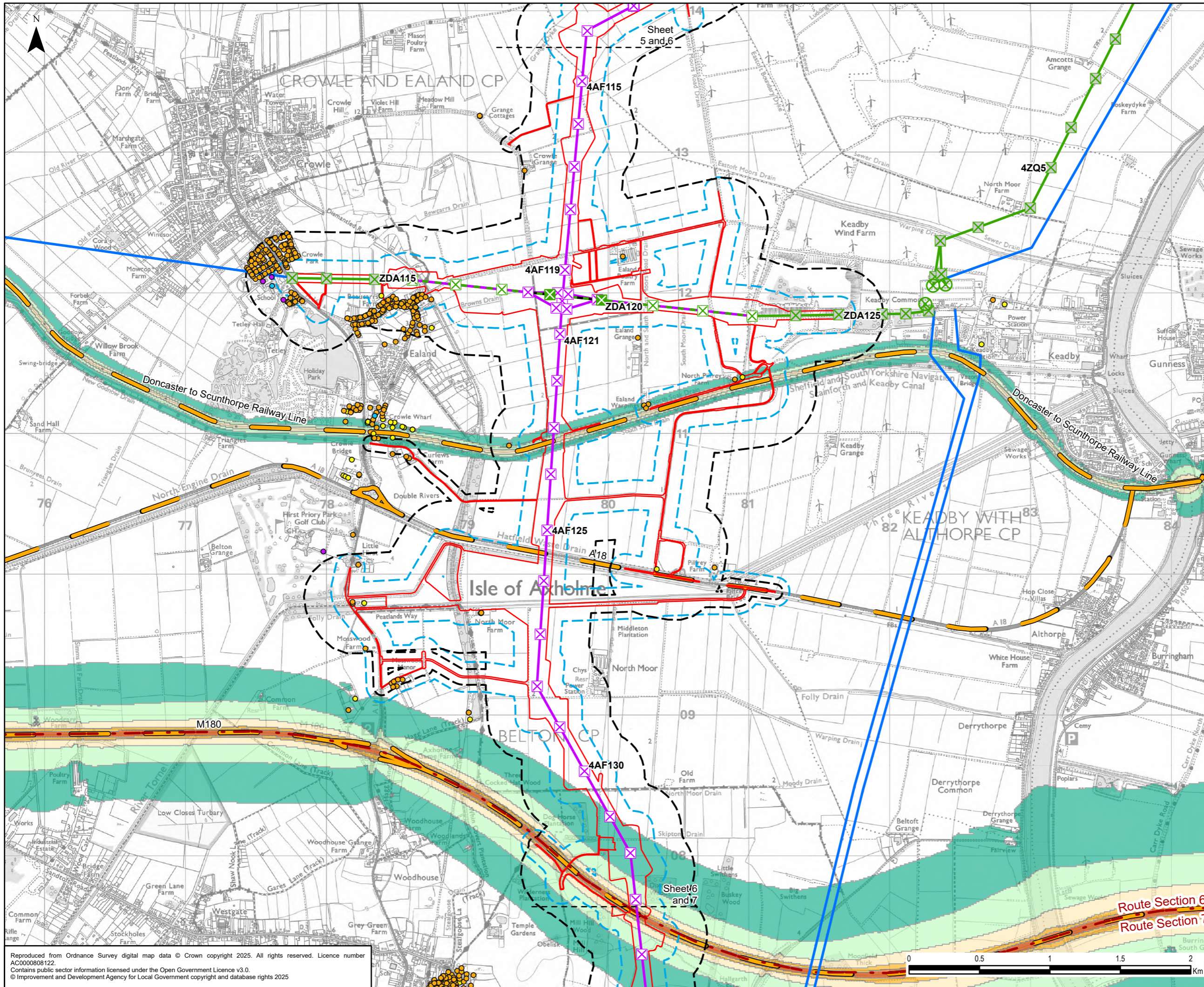
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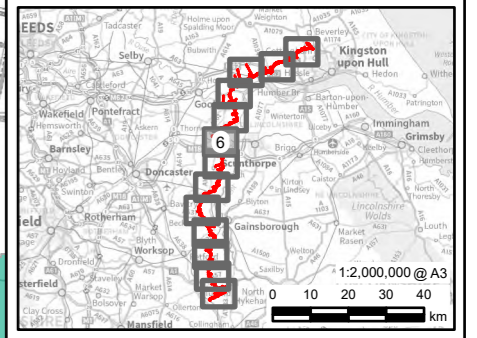
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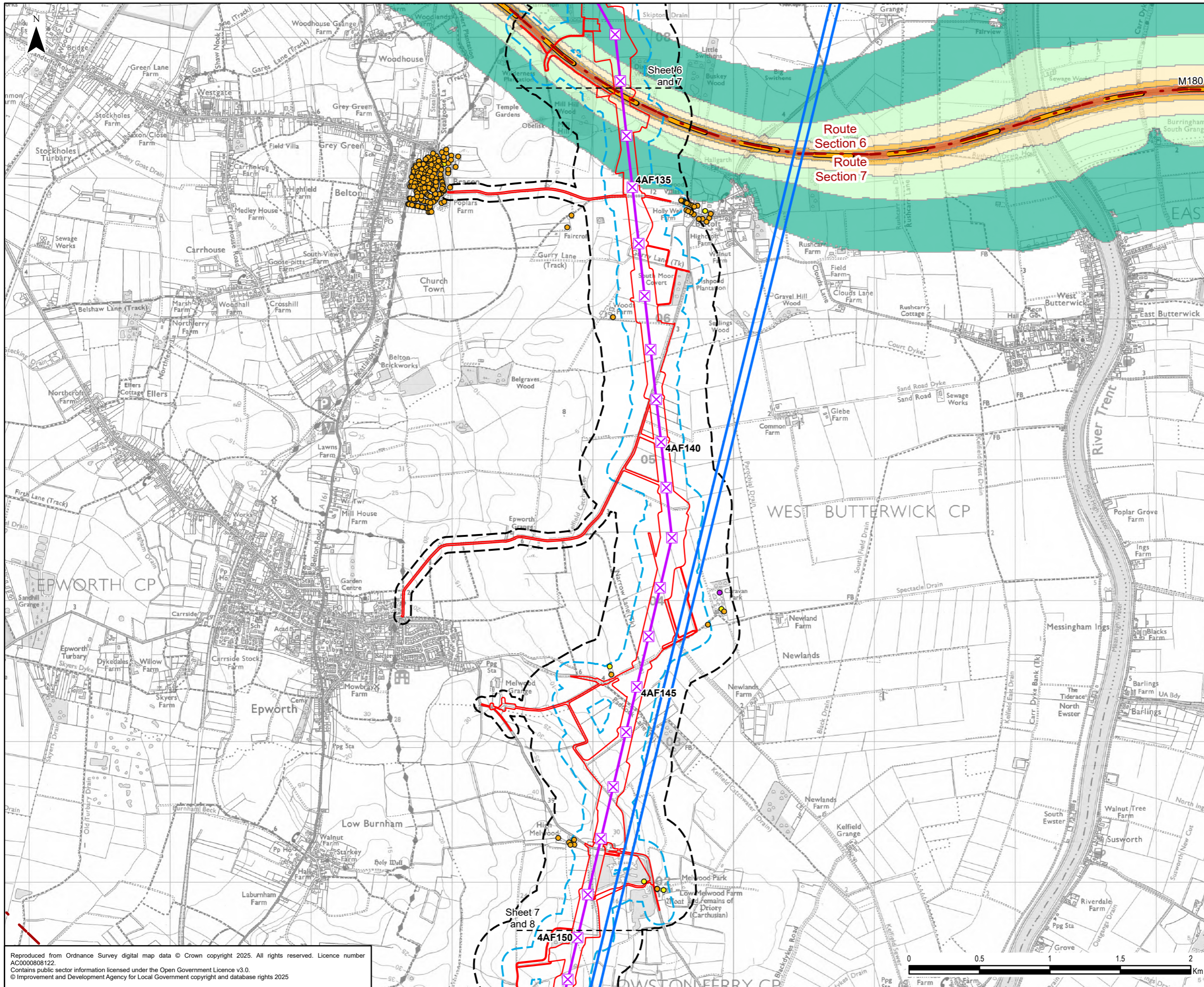
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 16.1 - BASELINE CONDITIONS

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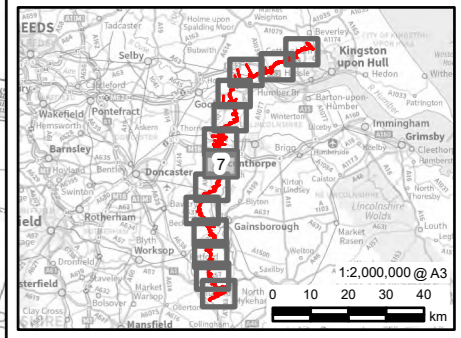
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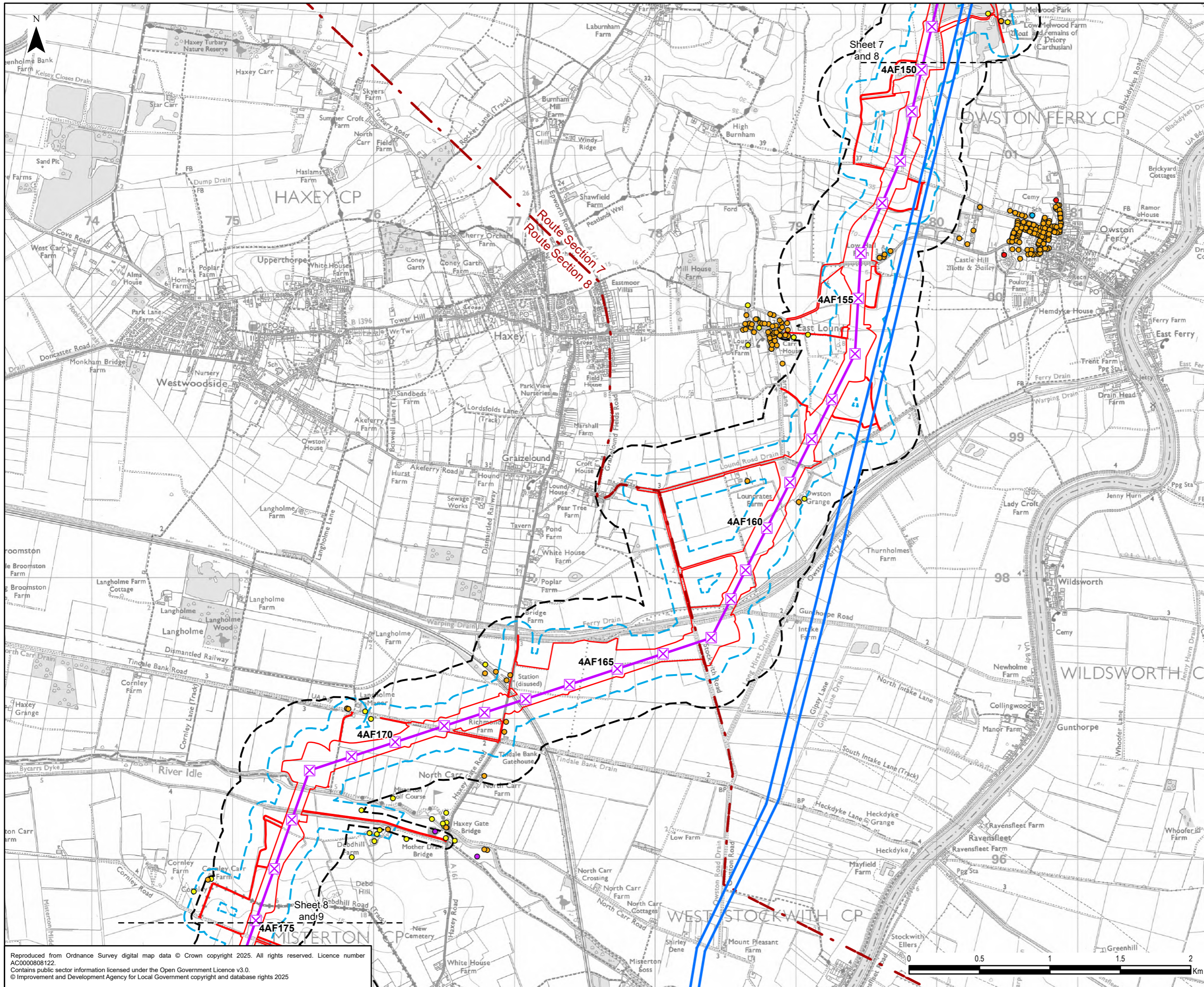
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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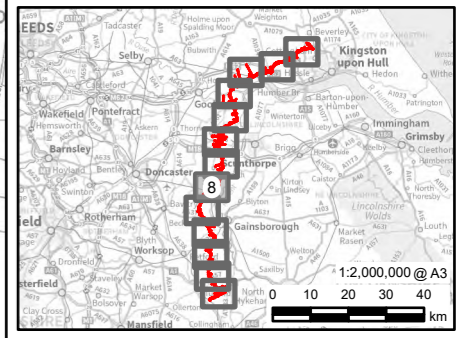
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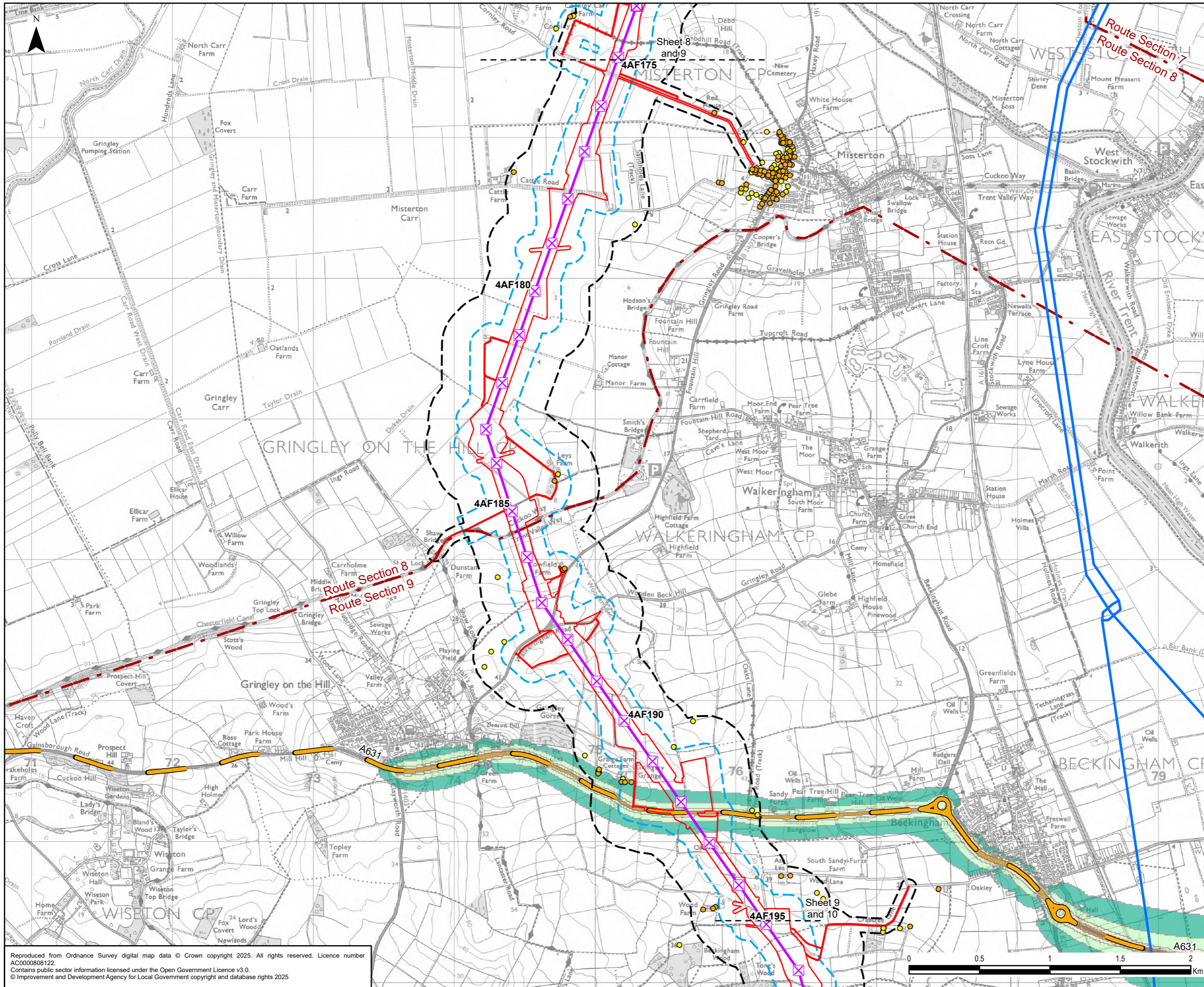
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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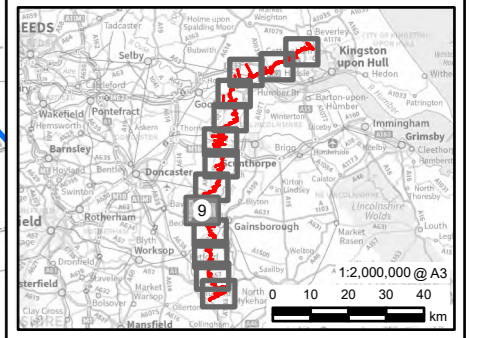
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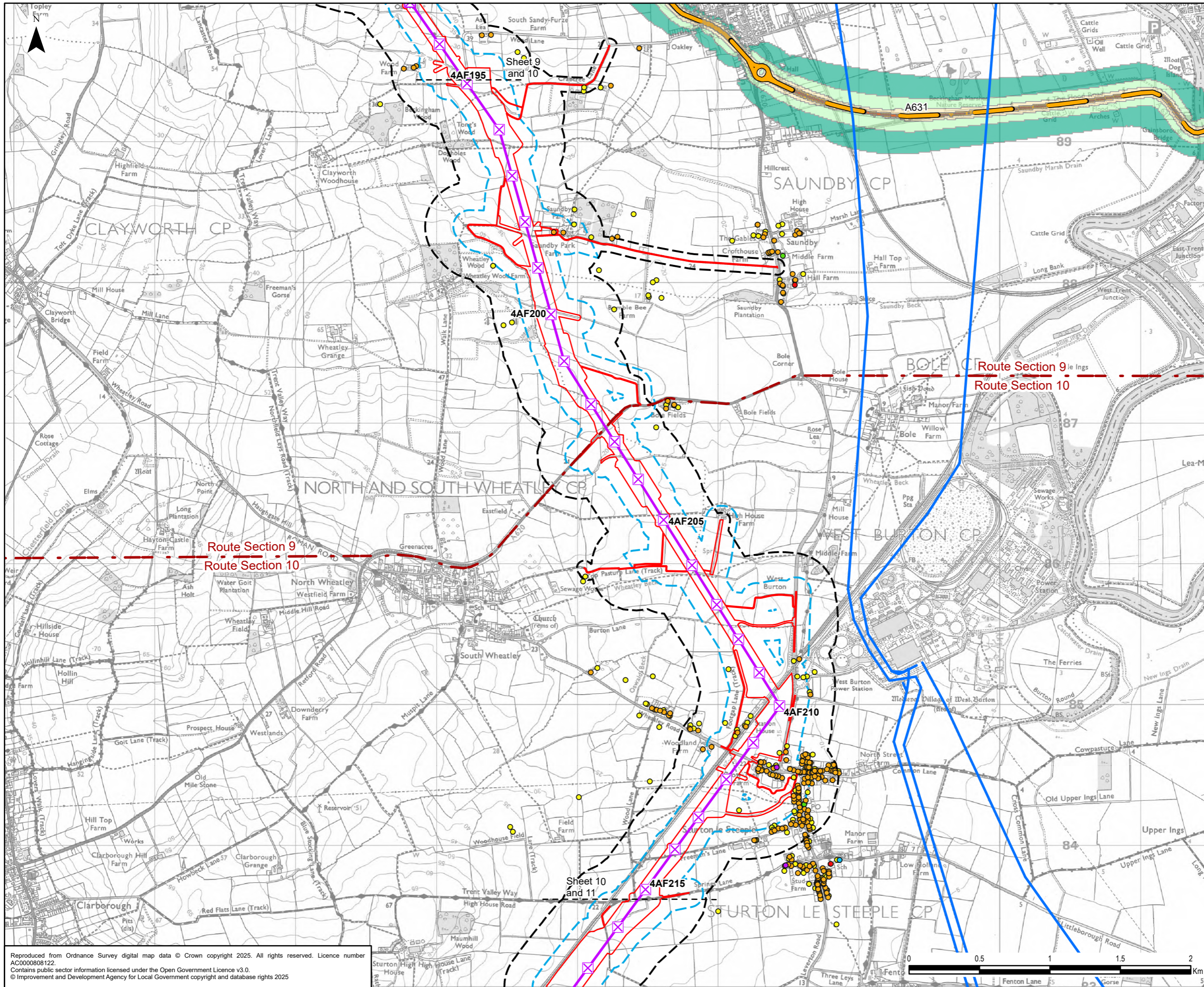
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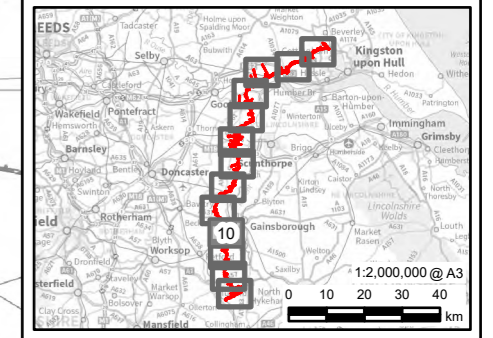
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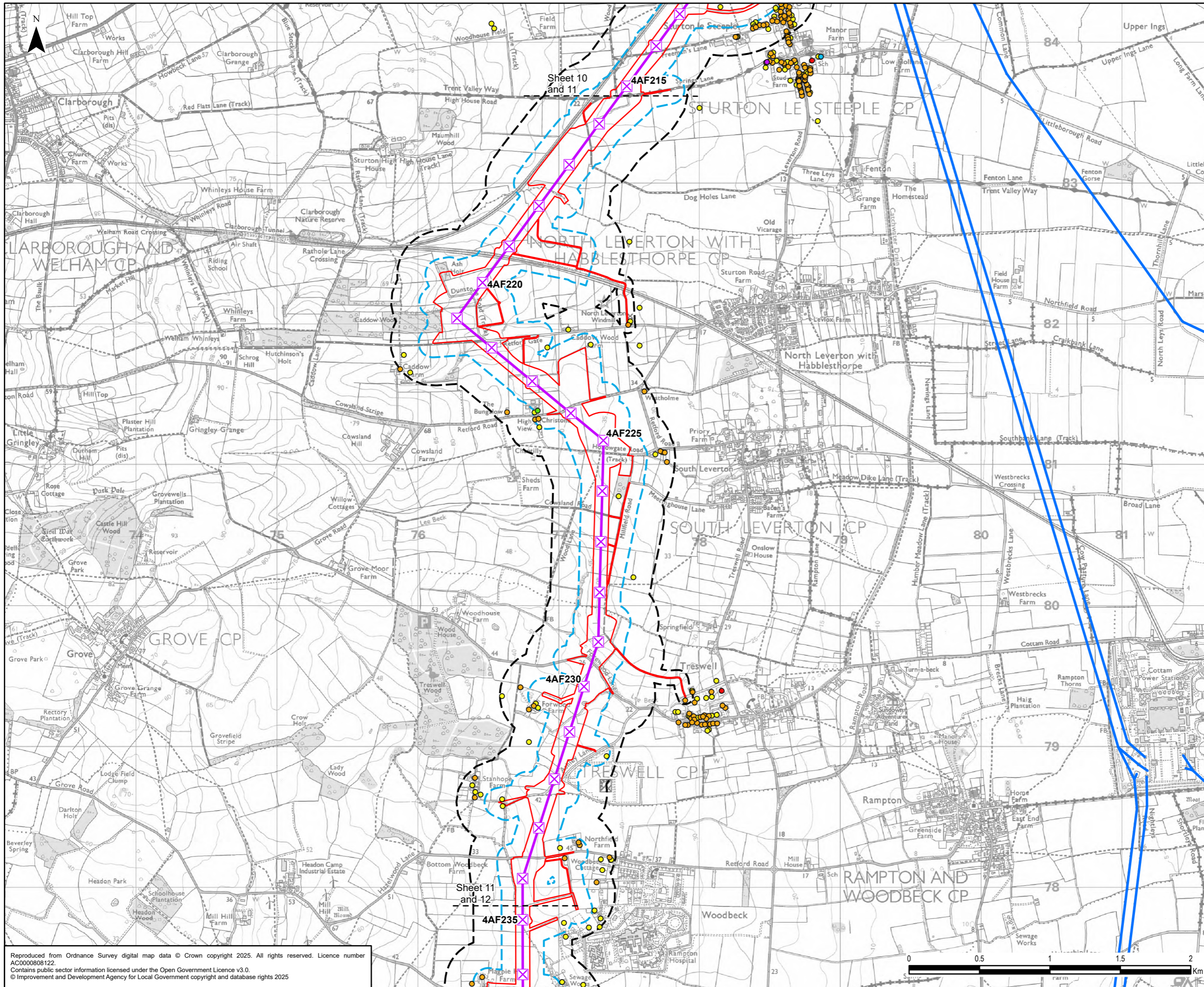
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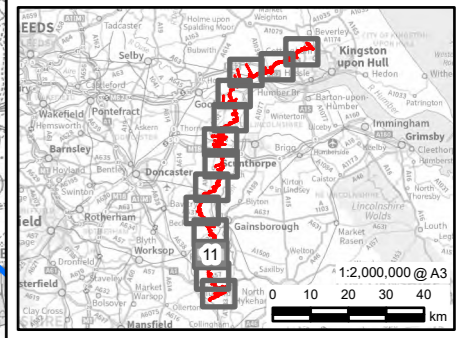
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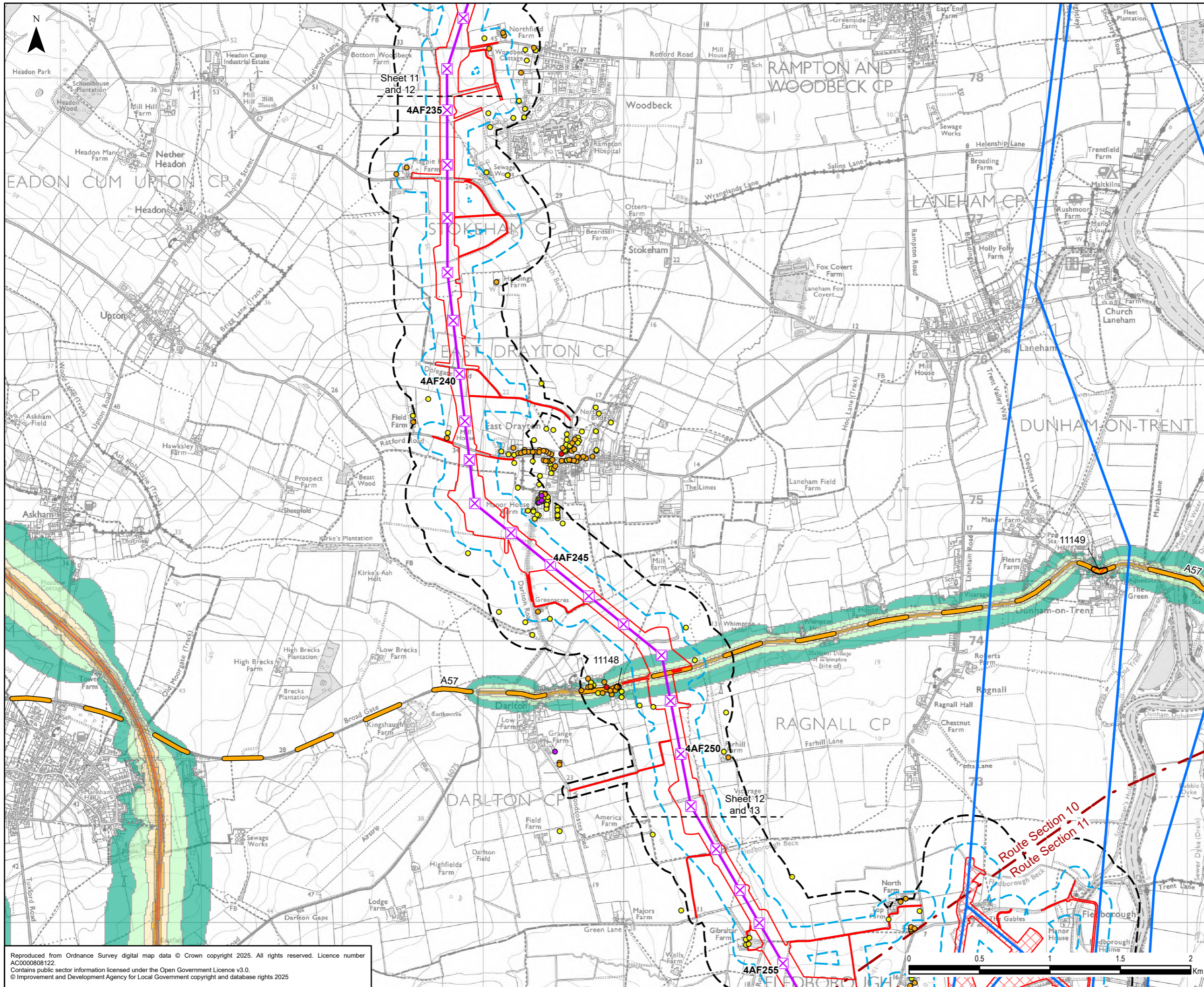
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Scheme: NORTH HUMBER TO HIGH MARNHAM

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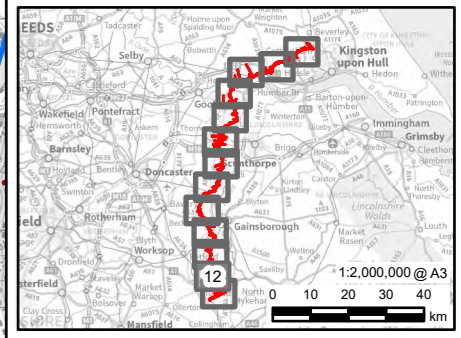
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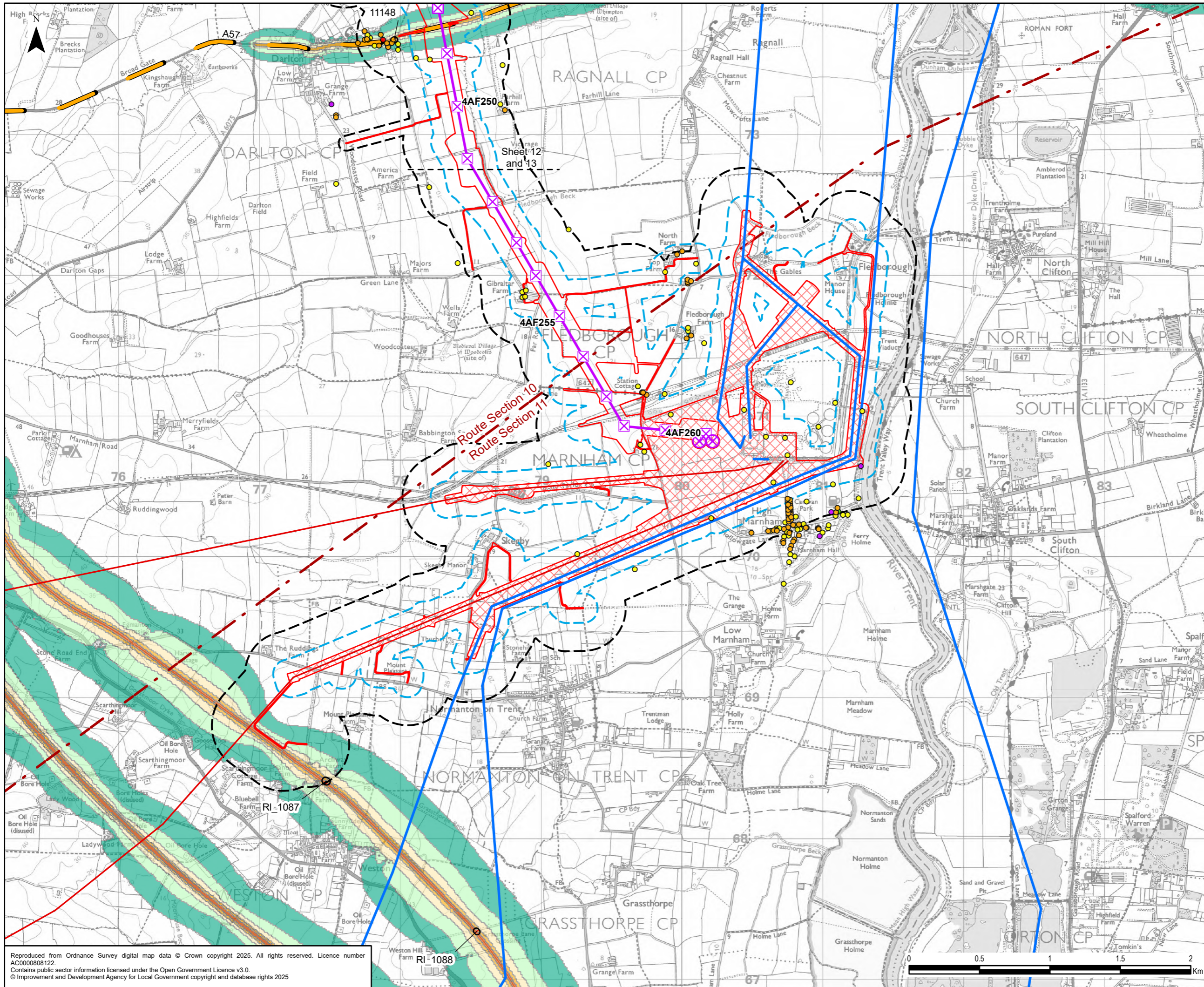
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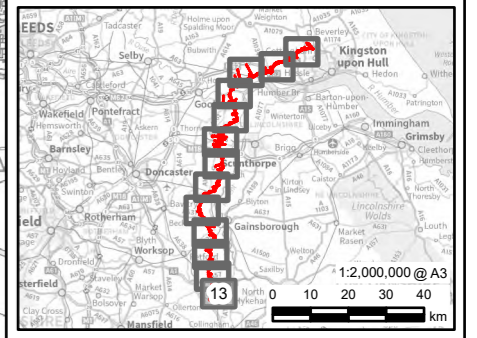
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- Other

Note: 1. The construction noise study area is comprised of a 300m study area from construction activities and 50m from roads within the draft Order Limits



Rev	Date	Description	GIS	Chk	App
0.1	15/01/2025	PEIR	MH	JG	WW

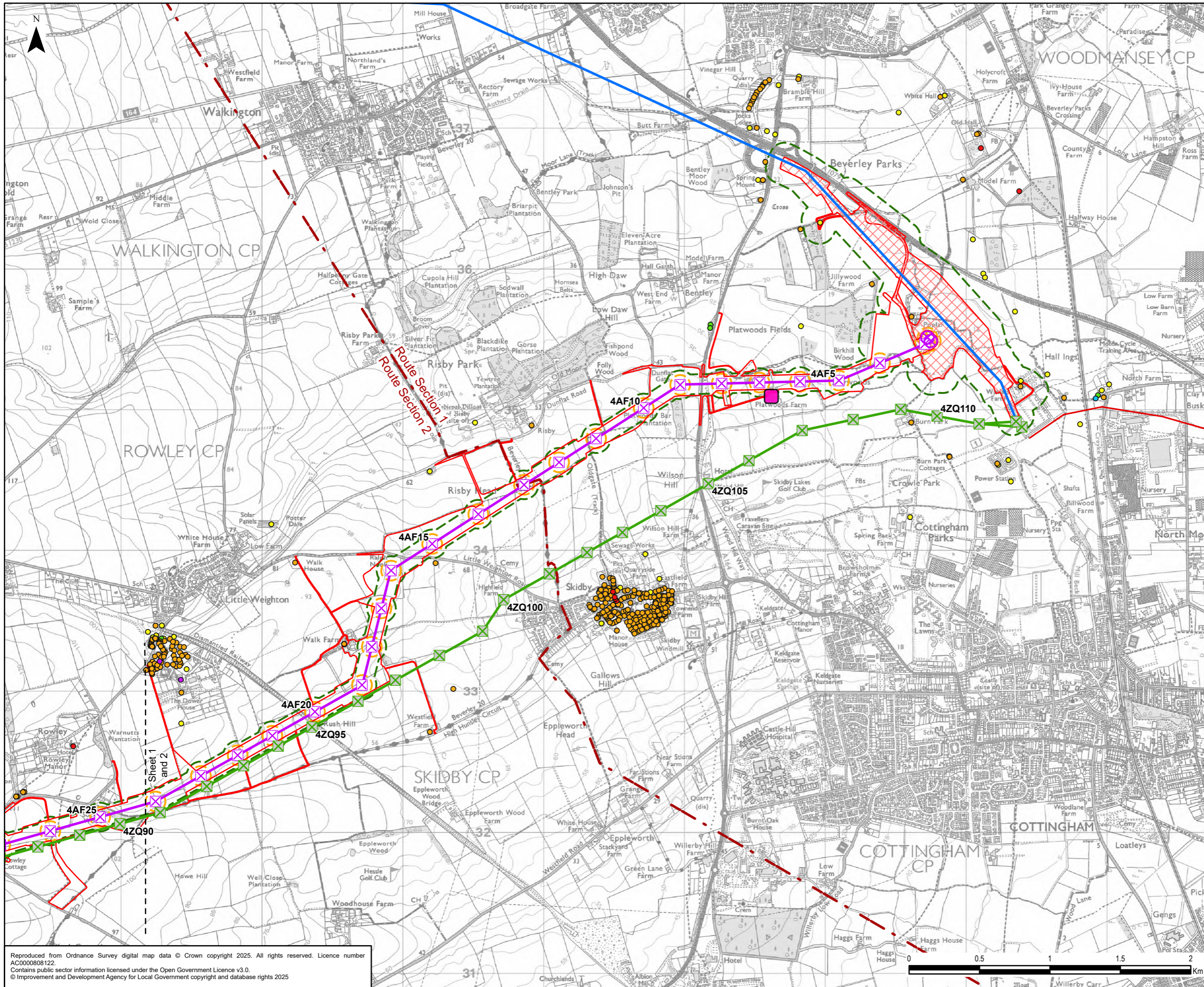
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Scheme: NORTH HUMBER TO HIGH MARNHAM

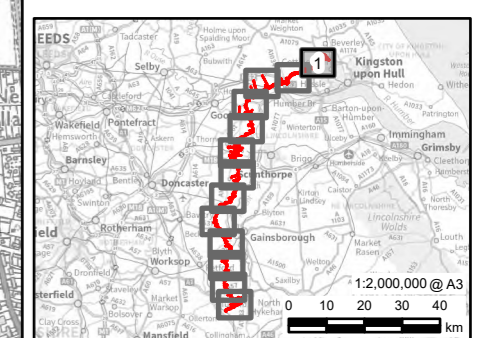
Figure Title: **FIGURE 16.1 - BASELINE CONDITIONS**

Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.1	Scale: 1:25,000	Format: A3	Sheets: 13 OF 13	Rev: 0.1	

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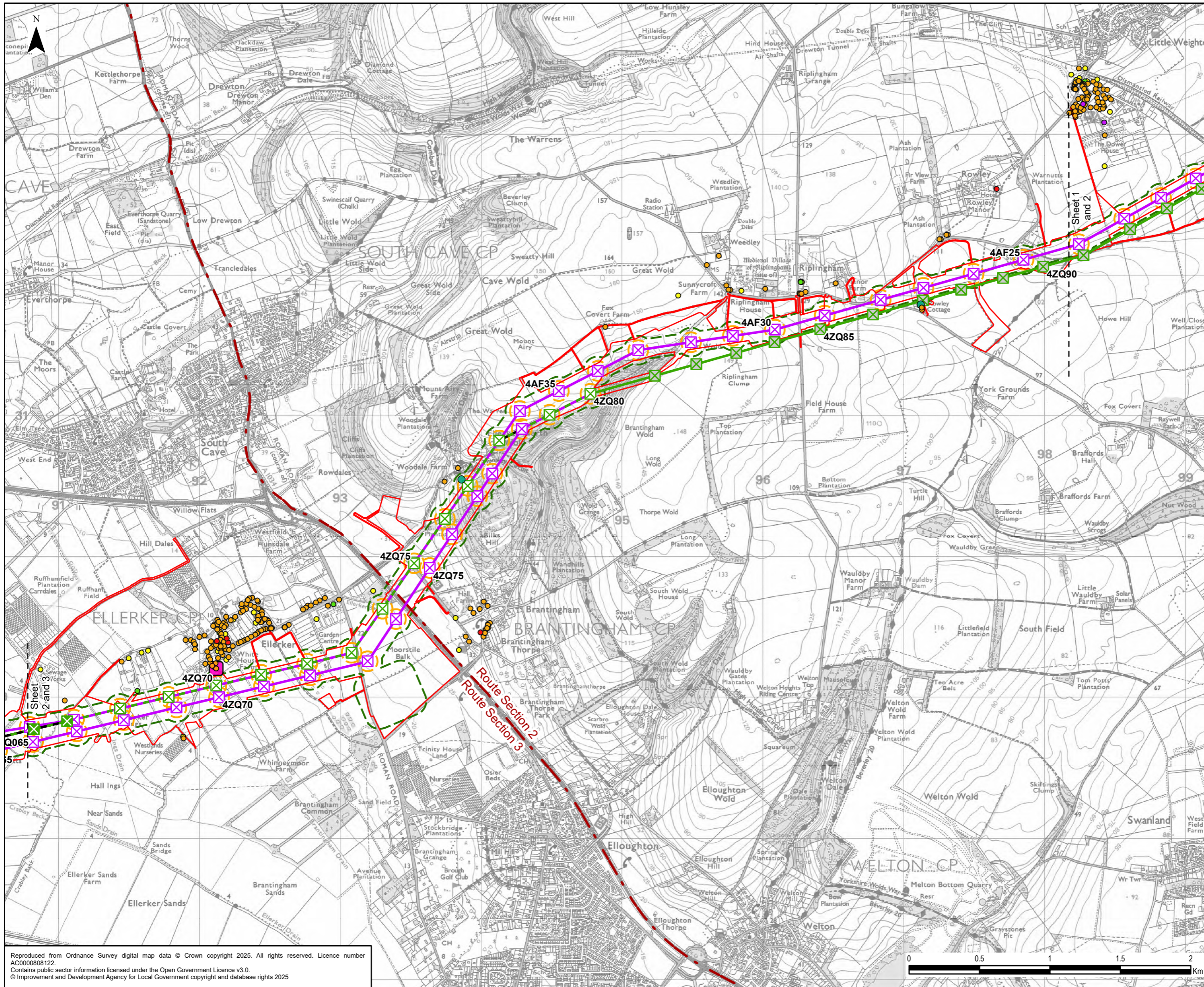


- ### Legend
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Indicative New Gantry
 - Existing Overhead Line Not Affected
 - Existing Lattice Pylon Not Affected
 - Noise and Vibration Data
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)
 - High Sensitivity Noise
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Education
 - Residential
 - Other

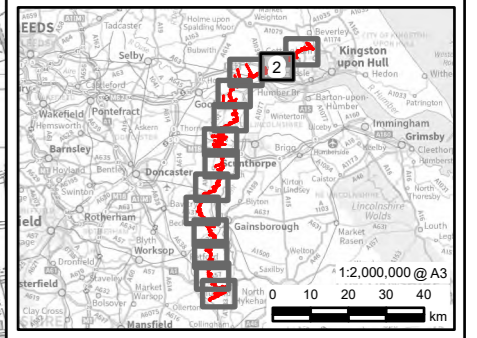


0.1	15/01/2025	PEIR	MH	JG	WW
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH HUMBER TO HIGH MARNHAM					
Figure Title: FIGURE 16.2 - CONSTRUCTION NOISE AND VIBRATION BUFFER ZONE					
Creator:	Date:	Checker:	Date:	Approver:	Date:
MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
16.2	1:25,000	A3	1 OF 13	0.1	

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- Legend**
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 - Indicative New Lattice Pylon
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 - Existing Overhead Line to be Dismantled
 - Existing Lattice Pylon Not Affected
 - Existing Lattice Pylon To be Modified
 - Existing Lattice Pylon To be Removed
 - Noise and Vibration Data**
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)**
 - Noise
 - High Sensitivity Noise
 - Address Receptor**
 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

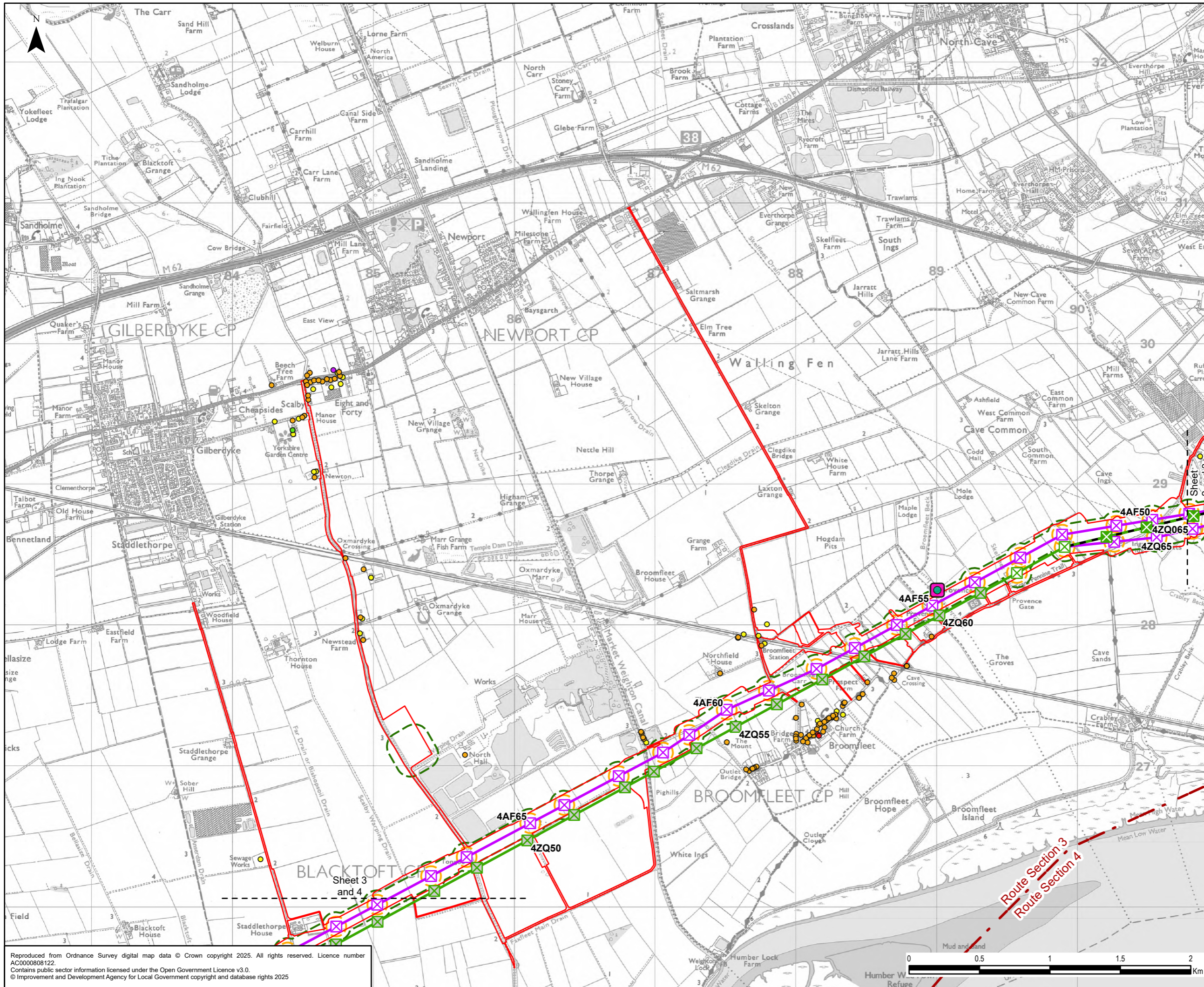
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Scheme: NORTH HUMBER TO HIGH MARNHAM

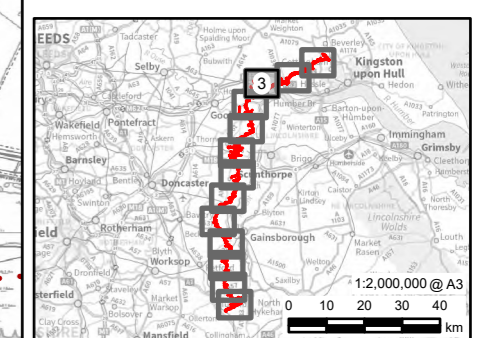
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Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.2	Scale: 1:25,000	Format: A3	Sheets: 2 OF 13	Rev: 0.1	

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- ### Legend
- Draft Order Limits
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Existing Overhead Line Not Affected
 - Existing Overhead Line to be Dismantled
 - Existing Lattice Pylon Not Affected
 - Existing Lattice Pylon To Be Modified
 - Existing Lattice Pylon To Be Removed
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Noise
 - High Sensitivity Noise
 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

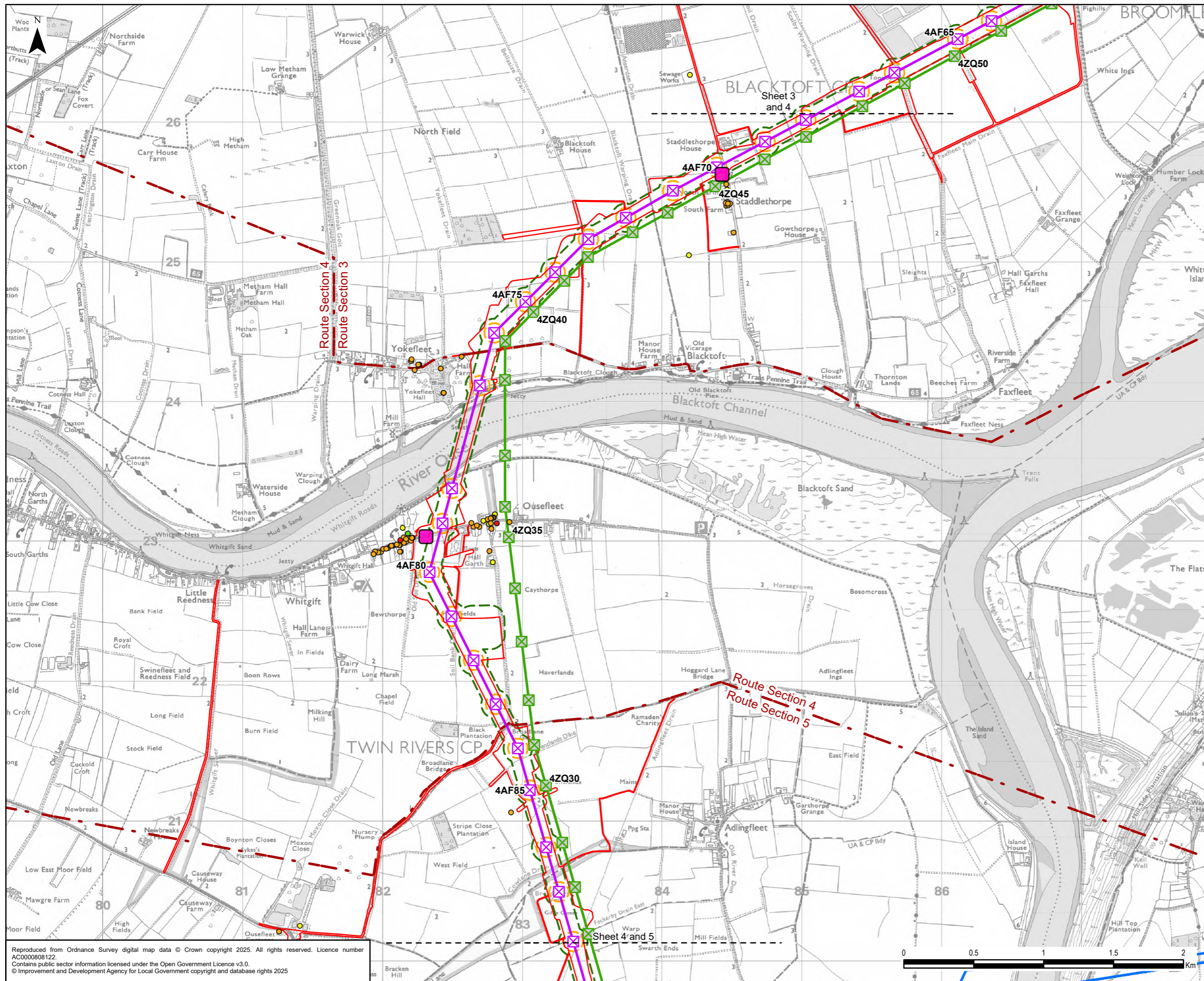
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Scheme: NORTH HUMBER TO HIGH MARNHAM

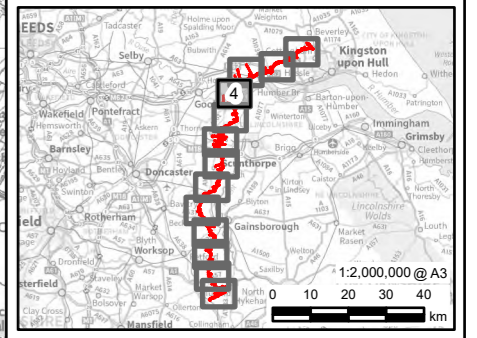
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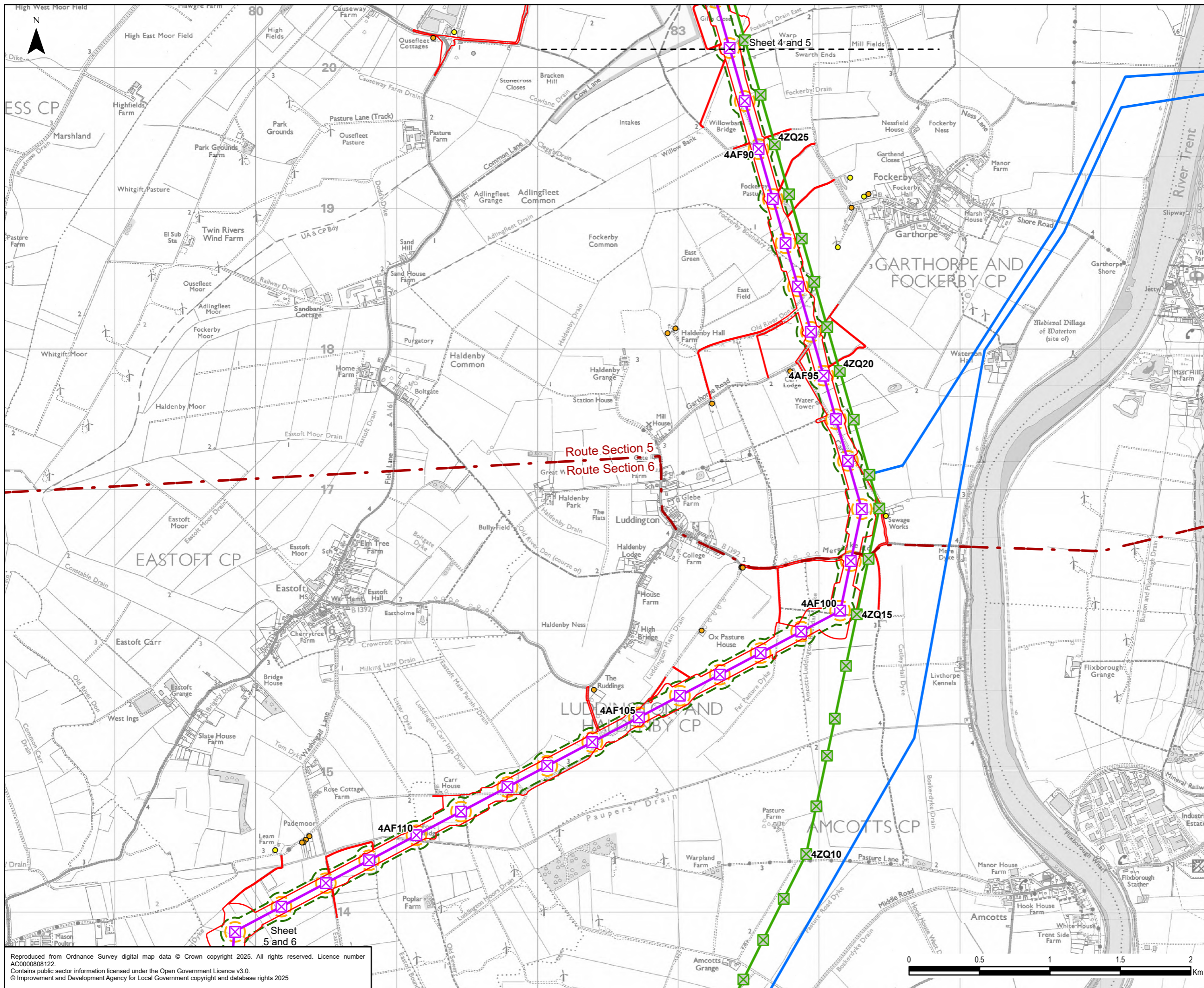


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- Draft Order Limits
 - Route Section
 - Existing Overhead Line
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Existing Overhead Line Not Affected
 - Existing Lattice Pylon Not Affected
 - Noise and Vibration Data
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)
 - High Sensitivity Noise
 - Address Receptor
 - Commercial
 - Community Services
 - Residential
 - Other

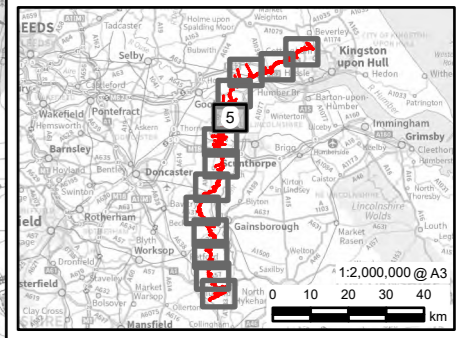


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Rev	Date	Description	GIS	Chk	App
nationalgrid					
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Creator:	Date:	Checker:	Date:	Approver:	Date:
MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
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- Legend**
- Draft Order Limits
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Existing Overhead Line Not Affected
 - Existing Lattice Pylon Not Affected
 - Noise and Vibration Data
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Address Receptor
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

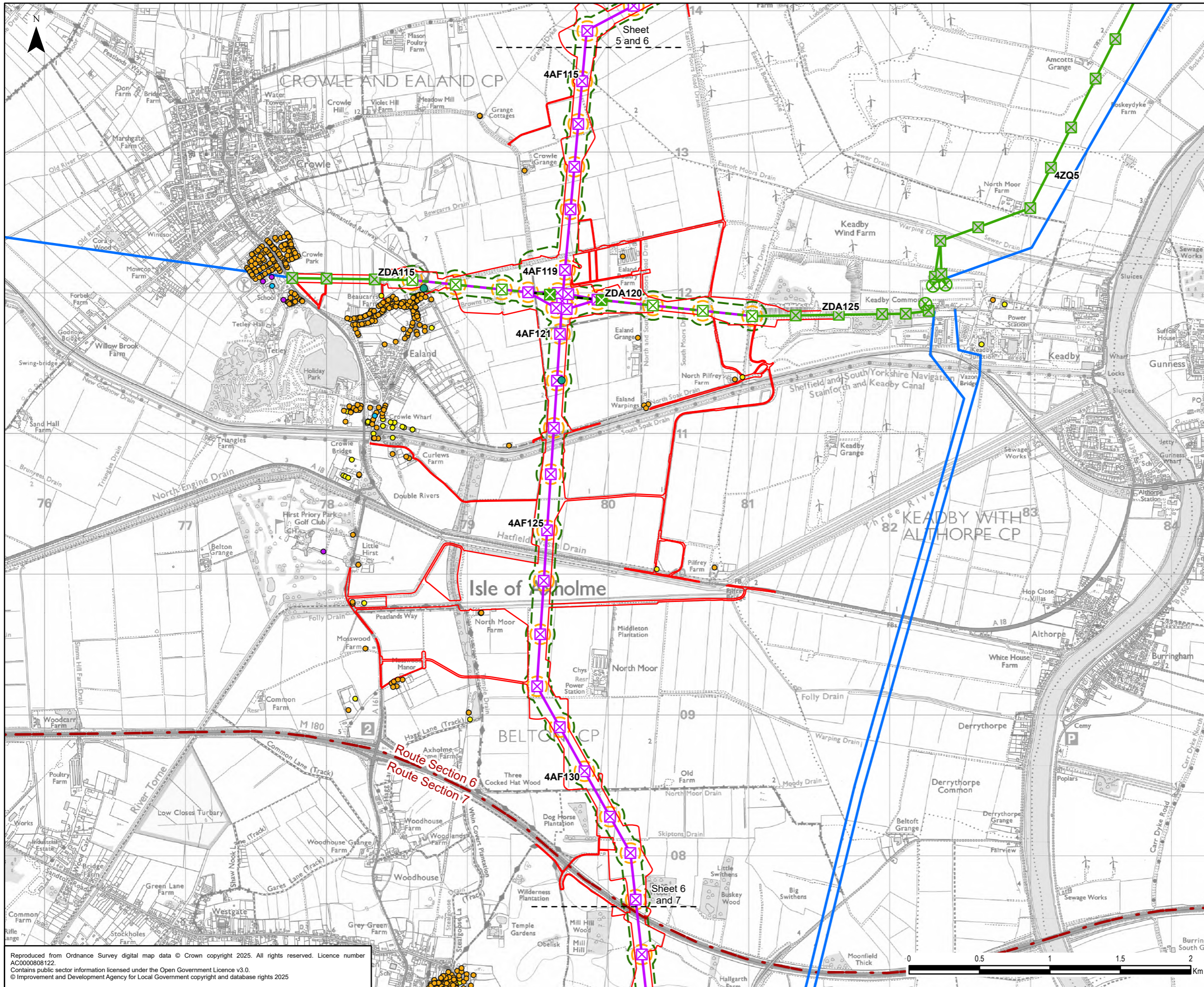
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Scheme: NORTH HUMBER TO HIGH MARNHAM

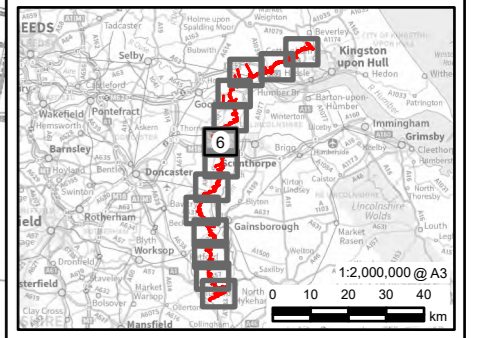
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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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- Legend**
- Draft Order Limits
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 - Existing Overhead Line
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 - 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
 - Noise and Vibration Data
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)
 - Noise
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Commercial
 - Education
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

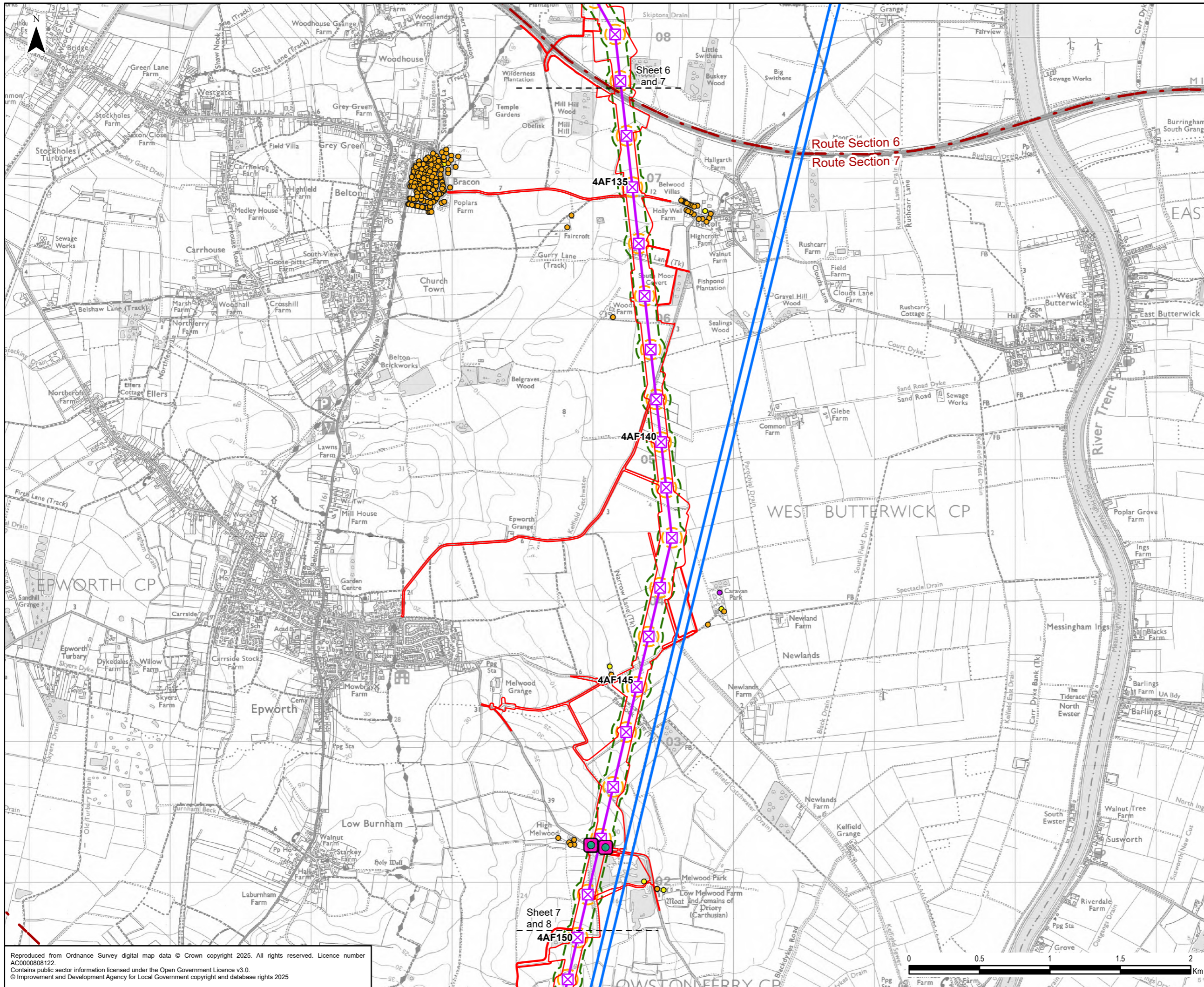
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Scheme: NORTH HUMBER TO HIGH MARNHAM

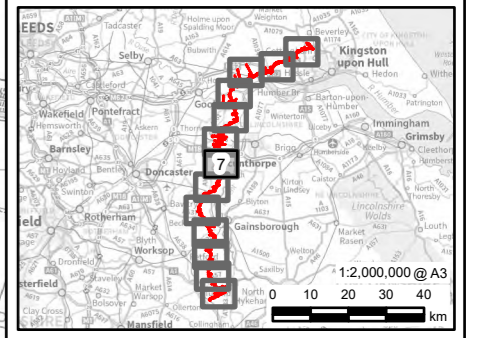
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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
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 - Indicative New Lattice Pylon
 - Noise and Vibration Data
 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)
 - Noise
 - High Sensitivity Noise
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

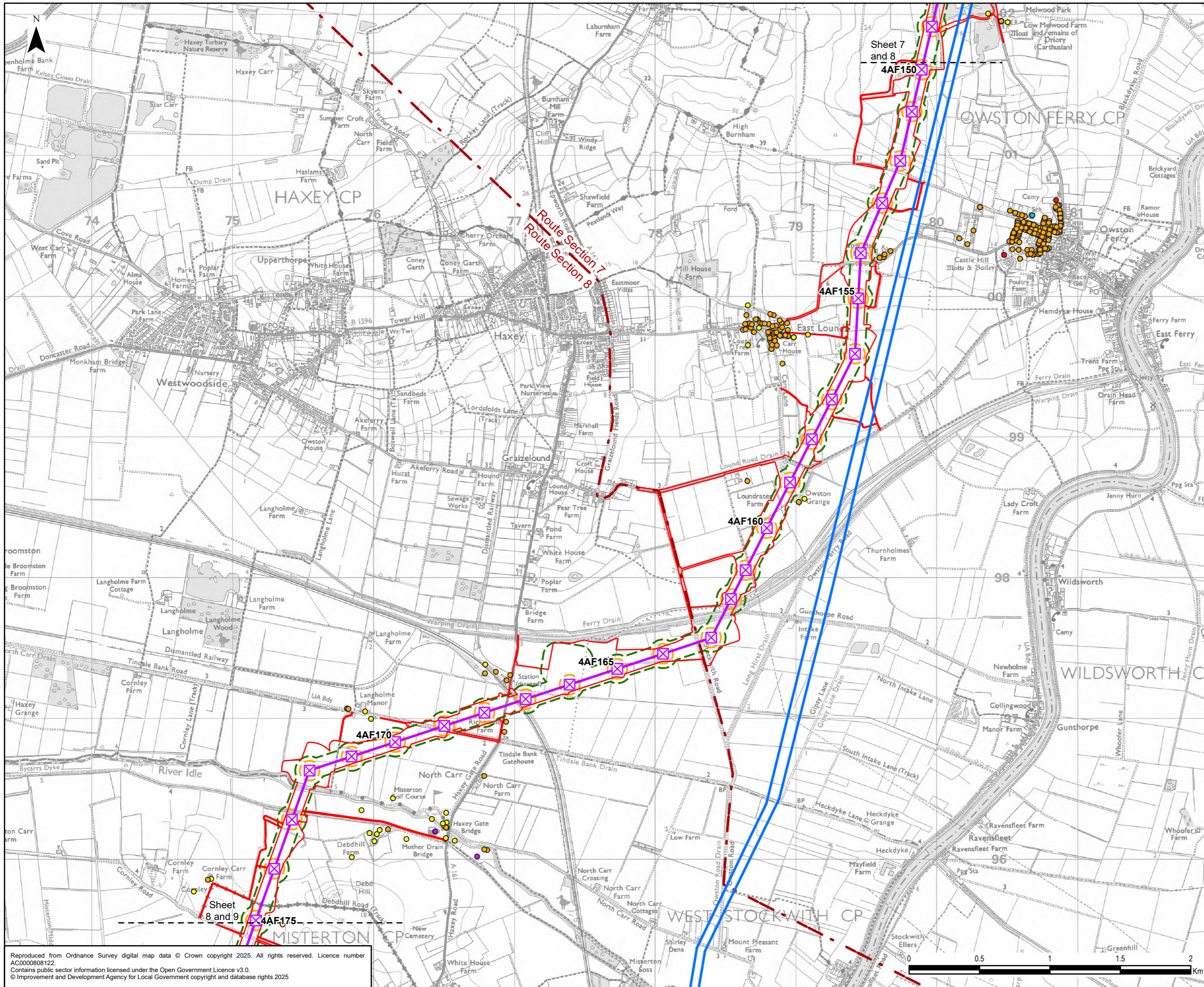
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Scheme: NORTH HUMBER TO HIGH MARNHAM

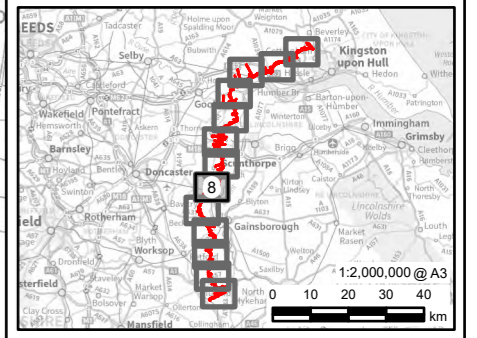
FIGURE 16.2 - CONSTRUCTION NOISE AND VIBRATION BUFFER ZONE

Creator:	Date:	Checker:	Date:	Approver:	Date:
MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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16.2	1:25,000	A3	7 OF 13	0.1	

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- Legend**
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 - Noise and Vibration Data
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0.1	15/01/2025	PEIR	MH	JG	WW
Rev	Date	Description	GIS	Chk	App

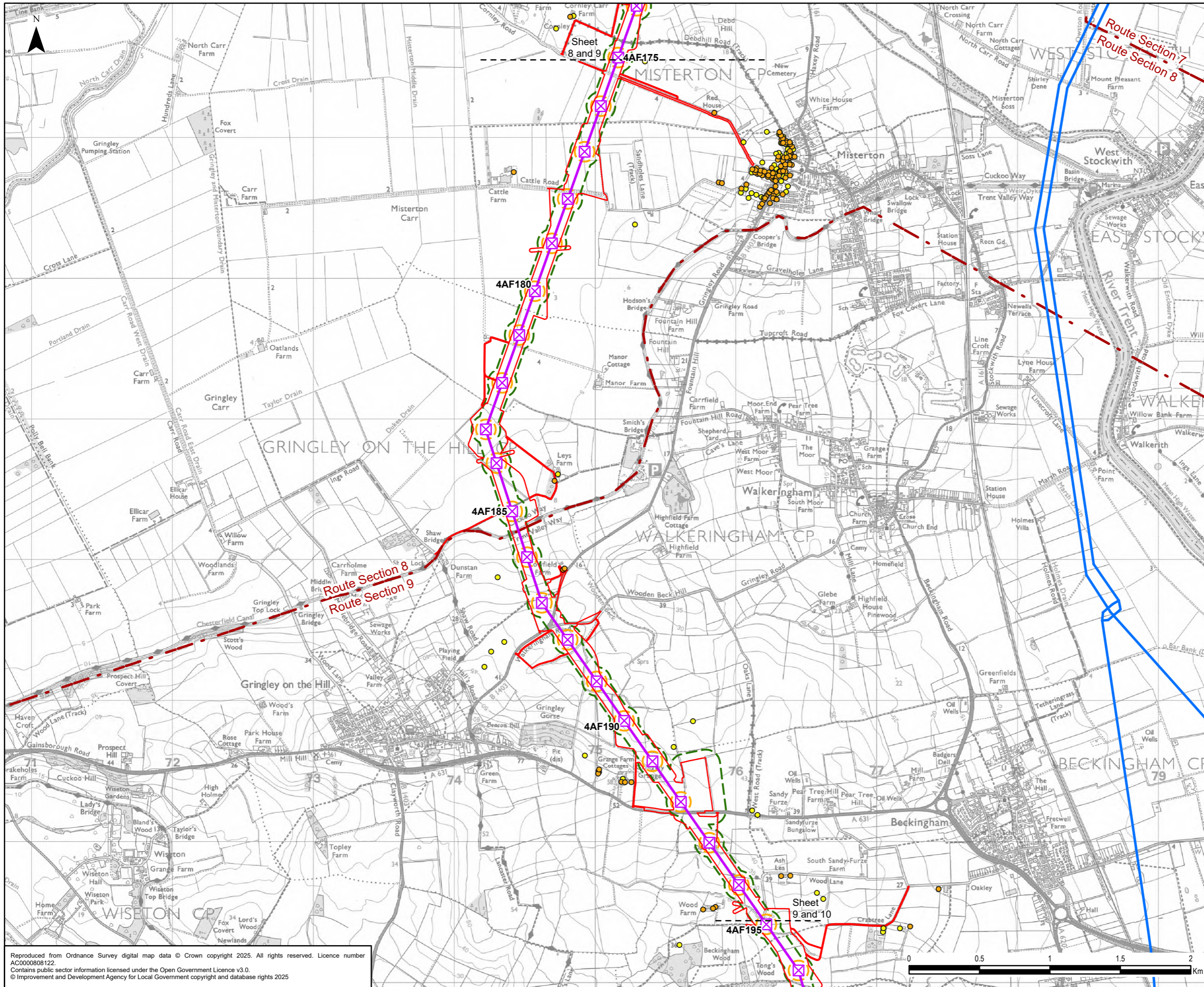
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Scheme: NORTH HUMBER TO HIGH MARNHAM

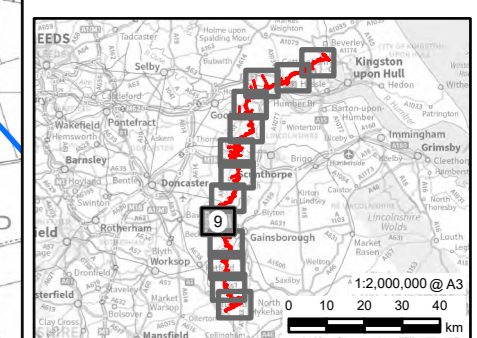
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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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16.2	1:25,000	A3	8 OF 13	0.1	

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 - Significant Observed Adverse Effect Level Noise Buffer
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 - Residential
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Rev	Date	Description	GIS	Chk	App

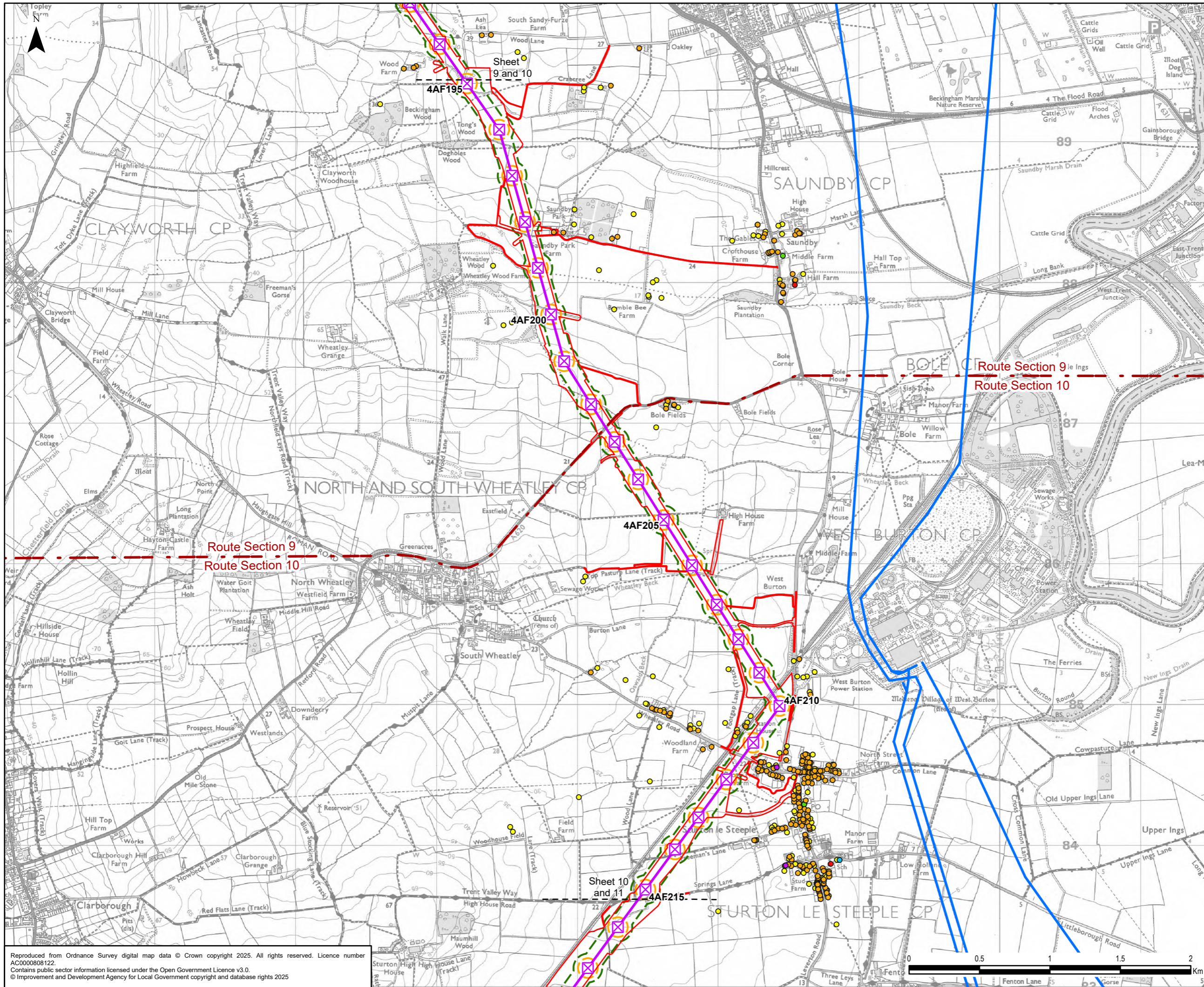
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Scheme: NORTH HUMBER TO HIGH MARNHAM

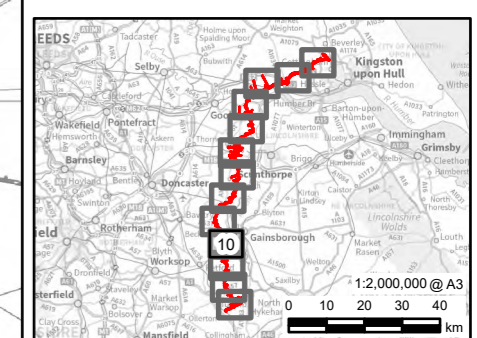
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Rev	Date	Description	GIS	Chk	App

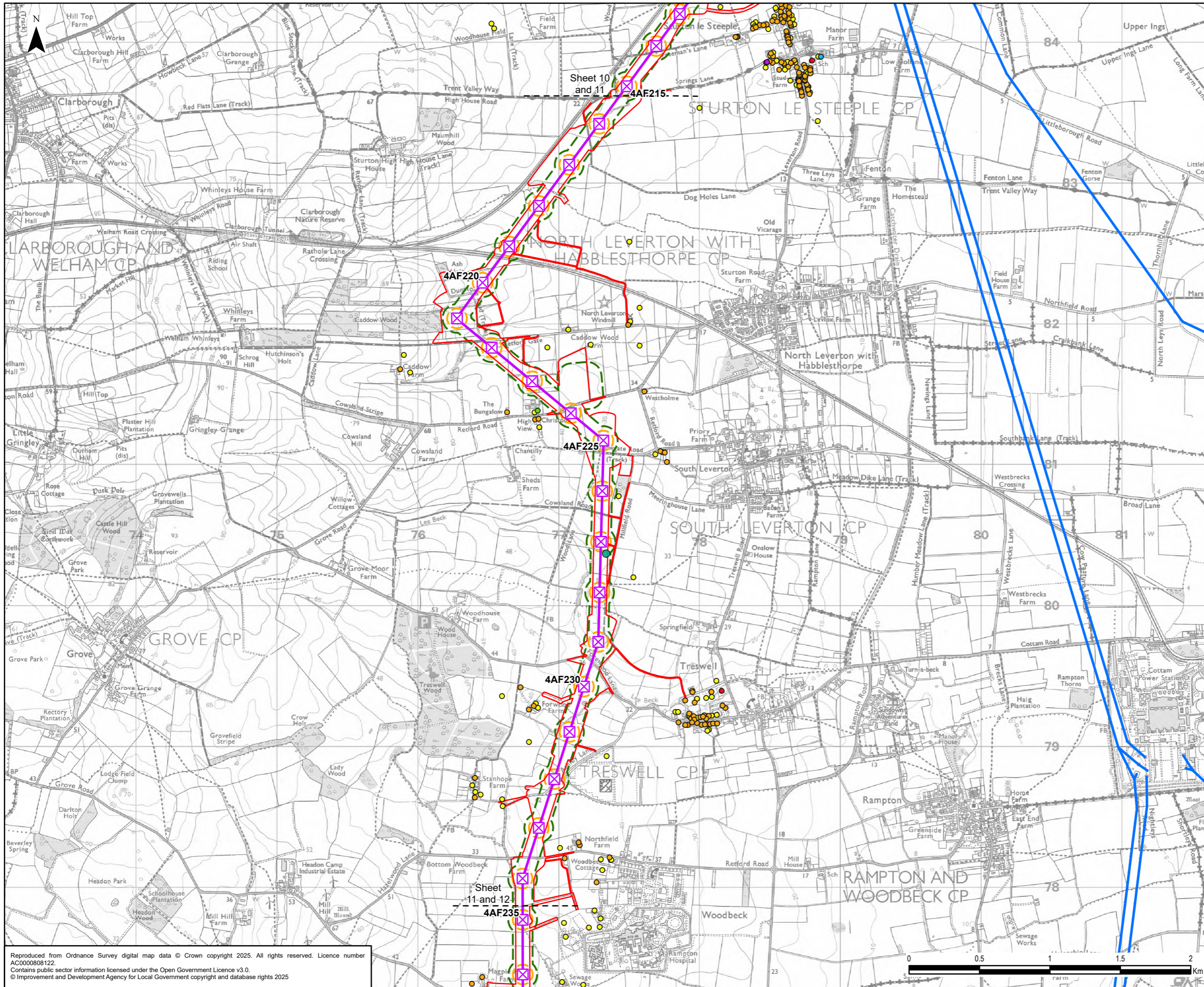
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Scheme: NORTH HUMBER TO HIGH MARNHAM

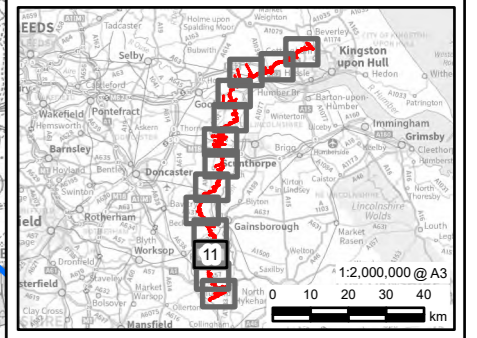
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Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.2	Scale: 1:25,000	Format: A3	Sheets: 10 OF 13	Rev: 0.1	

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 - Significant Observed Adverse Effect Level Vibration Buffer
 - Significant Observed Adverse Effect Level Noise Buffer
 - Potential Significant Effects (Without Migration)
 - Noise
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Rev	Date	Description	GIS	Chk	App

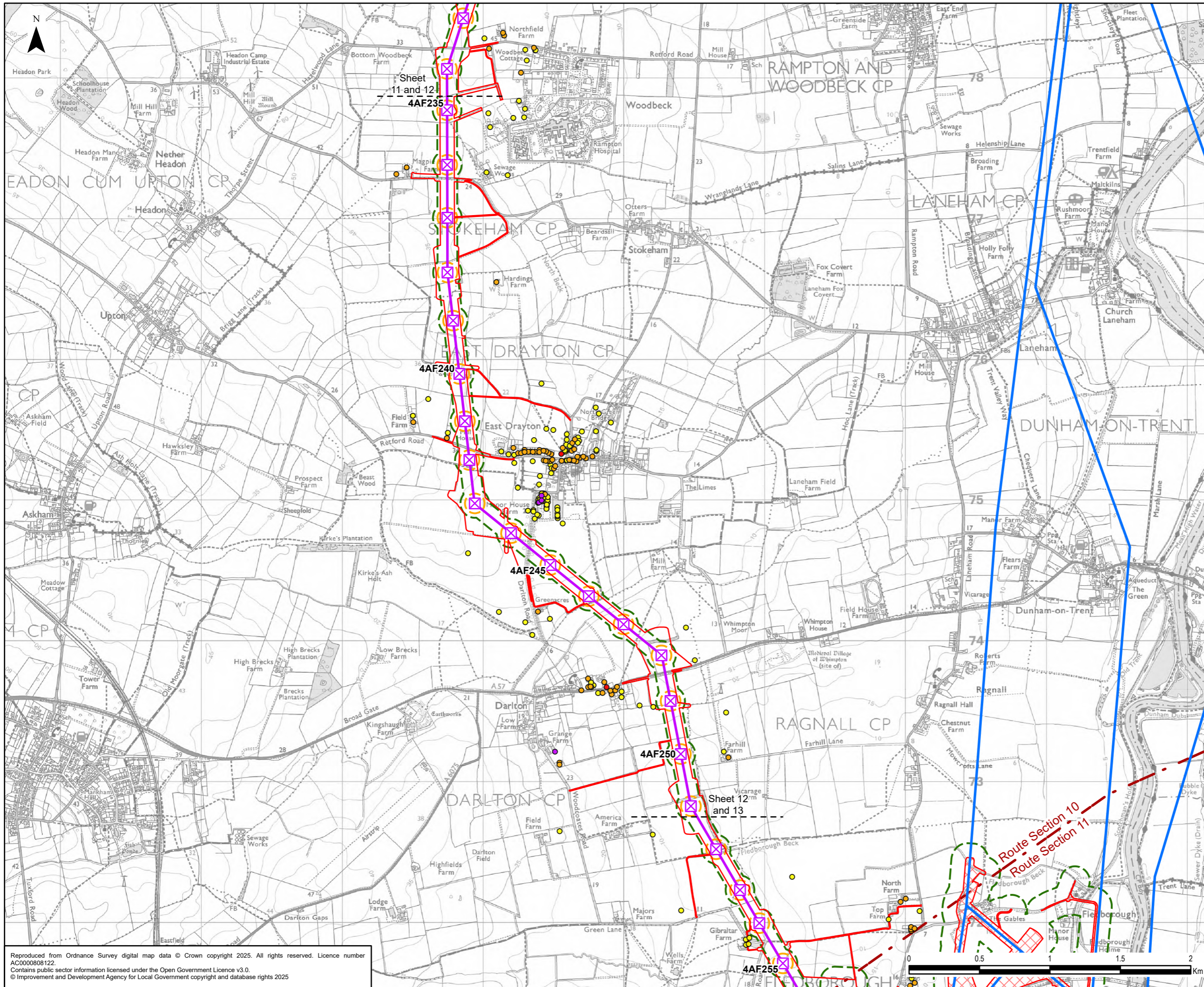
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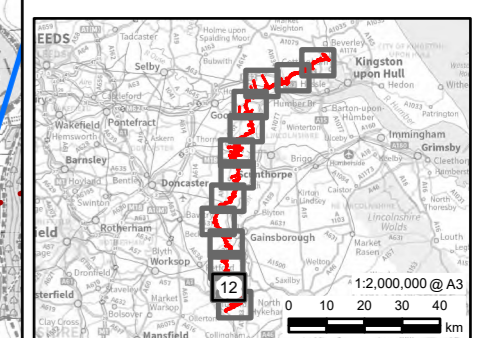
Figure Title: **FIGURE 16.2 - CONSTRUCTION NOISE AND VIBRATION BUFFER ZONE**

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Figure Ref: 16.2	Scale: 1:25,000	Format: A3	Sheets: 11 OF 13	Rev: 0.1	

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 - Indicative New Lattice Pylon
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 - Significant Observed Adverse Effect Level Noise Buffer
 - Address Receptor**
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Rev	Date	Description	GIS	Chk	App

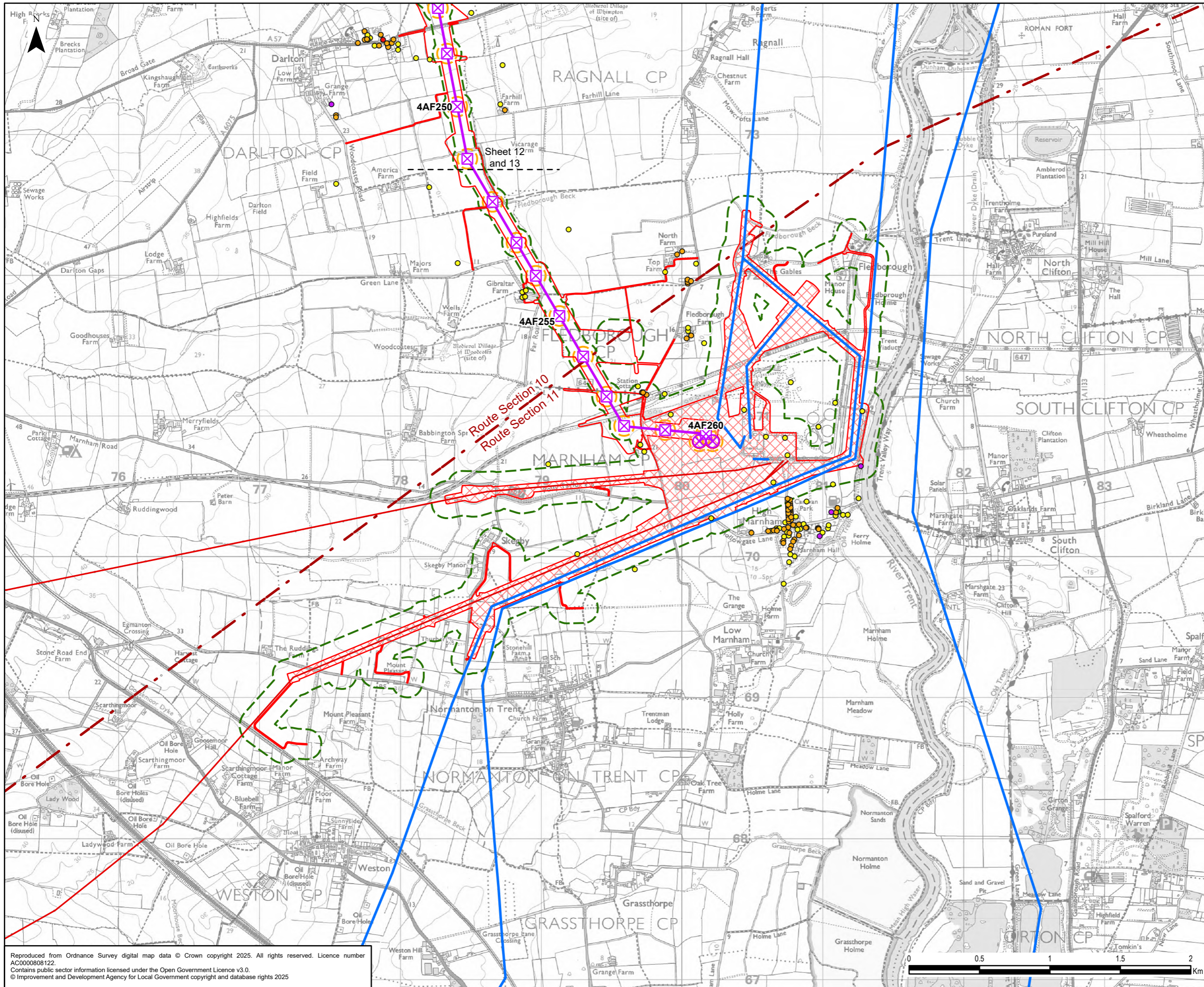
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Scheme: NORTH HUMBER TO HIGH MARNHAM

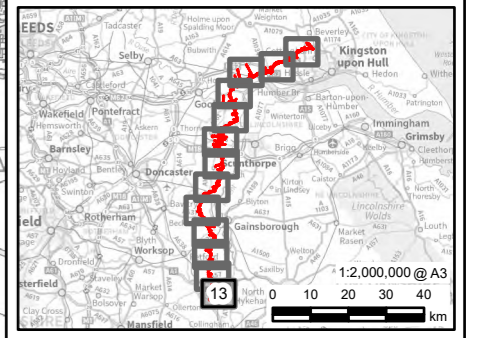
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Figure Ref: 16.2	Scale: 1:25,000	Format: A3	Sheets: 12 OF 13	Rev: 0.1	

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- Legend**
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 - Indicative New Lattice Pylon
 - Indicative New Gantry
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 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Residential
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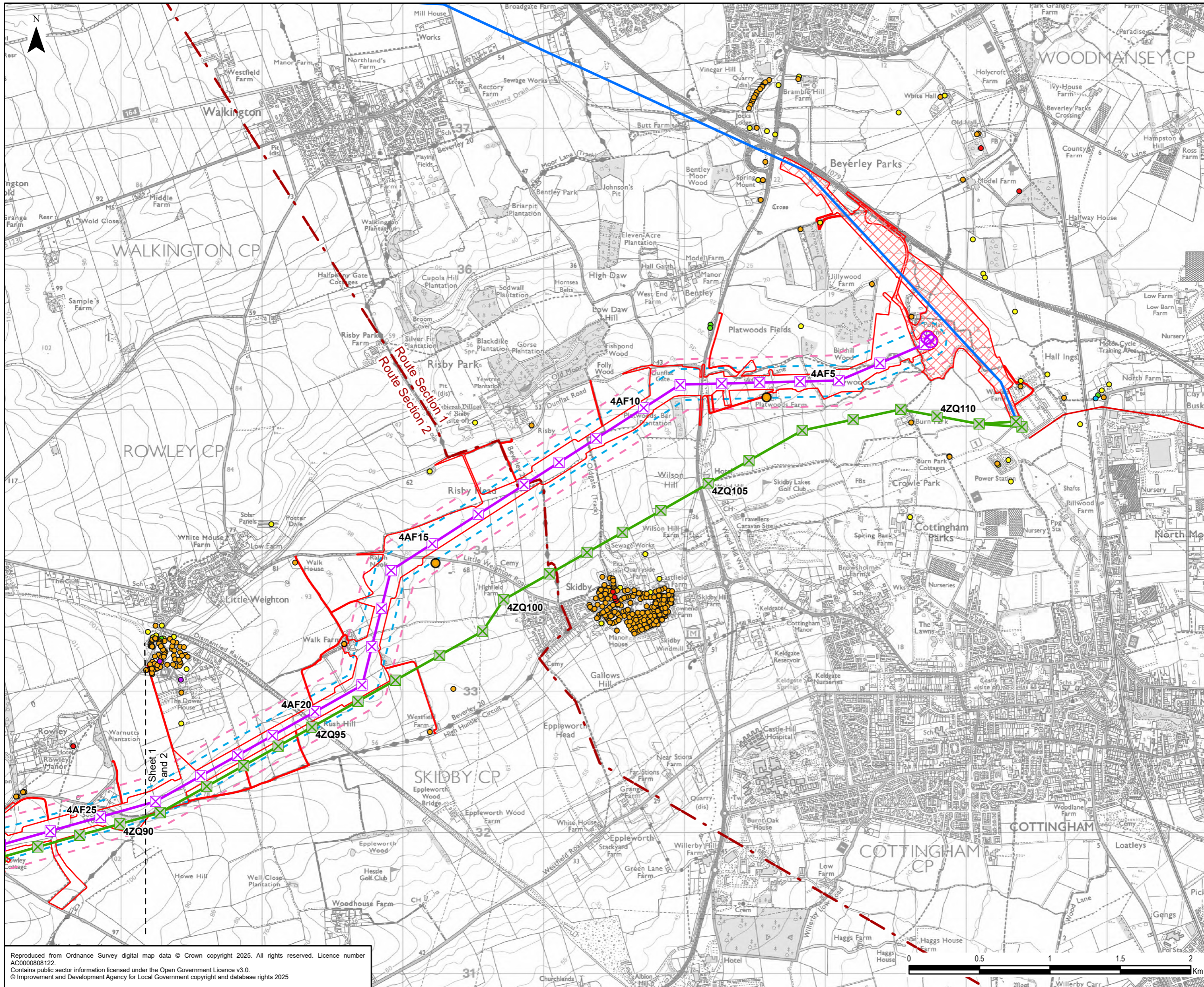
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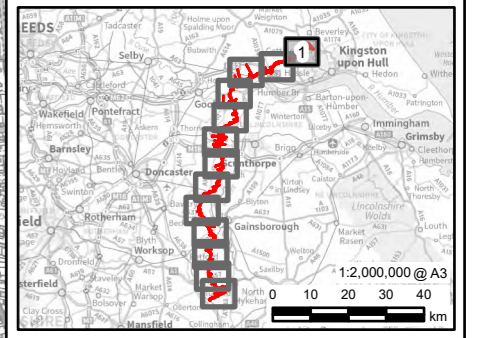
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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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- Legend**
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 - Indicative New Lattice Pylon
 - Indicative New Gantry
 - Existing Overhead Line Not Affected
 - Existing Lattice Pylon Not Affected
 - Address Receptor
 - Residential
 - Noise and Vibration Data
 - 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Education
 - Residential
 - Other



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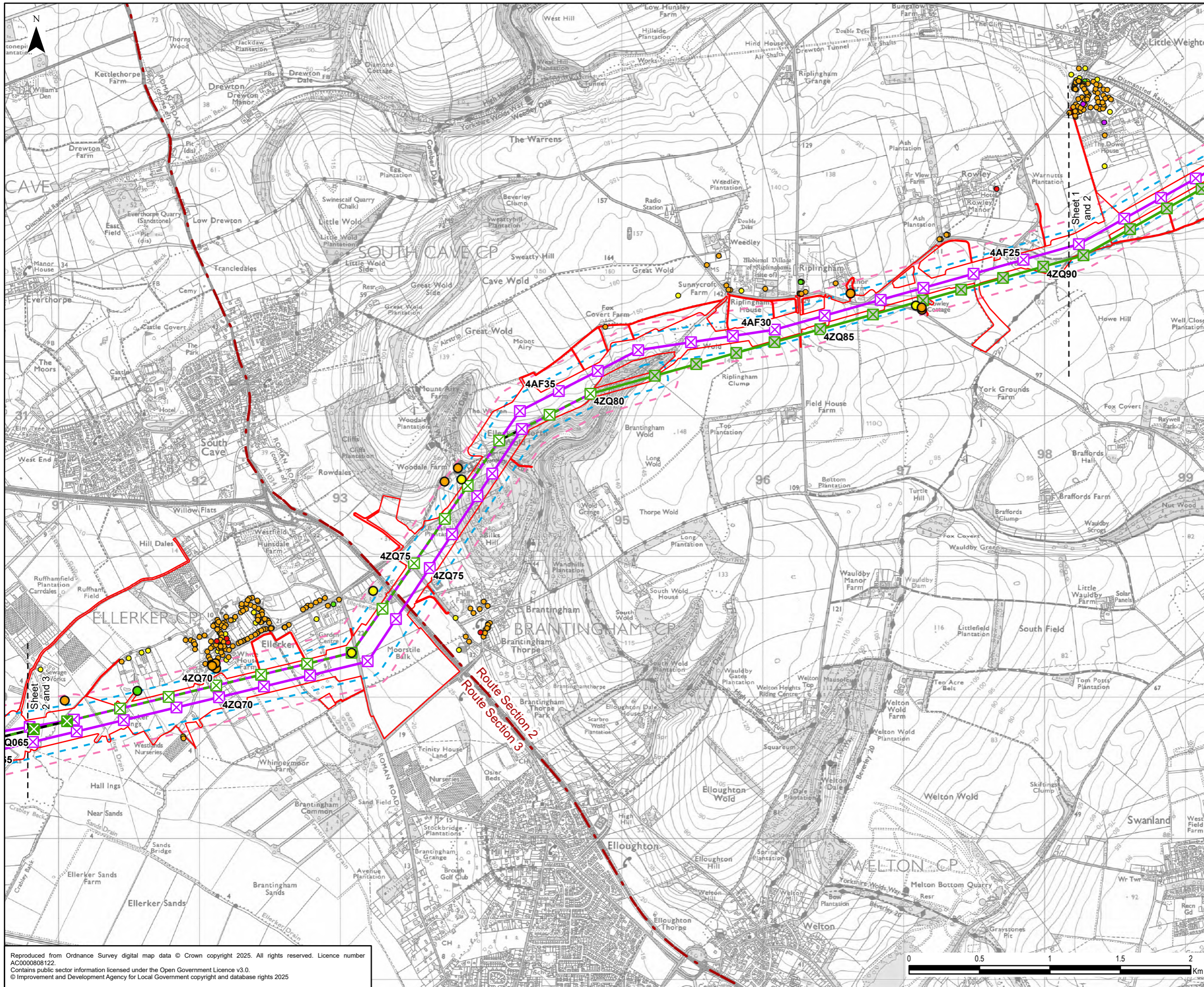
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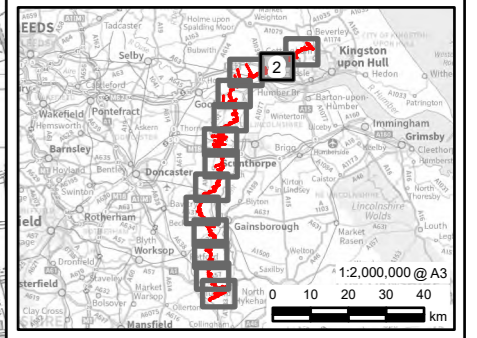
Figure Title: **FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE**

Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.3	Scale: 1:25,000	Format: A3	Sheets: 1 OF 13	Rev: 0.1	

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- Legend**
- Draft Order Limits
 - Route Section
- 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 Lattice Pylon To Be Removed
- Address Receptor**
- Commercial
 - Residential
 - Other
- Noise and Vibration Data**
- 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
- Address Receptor**
- Attraction, Sports and Entertainment
 - Commercial
 - Community Services
 - Residential
 - Other



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Rev	Date	Description	GIS	Chk	App

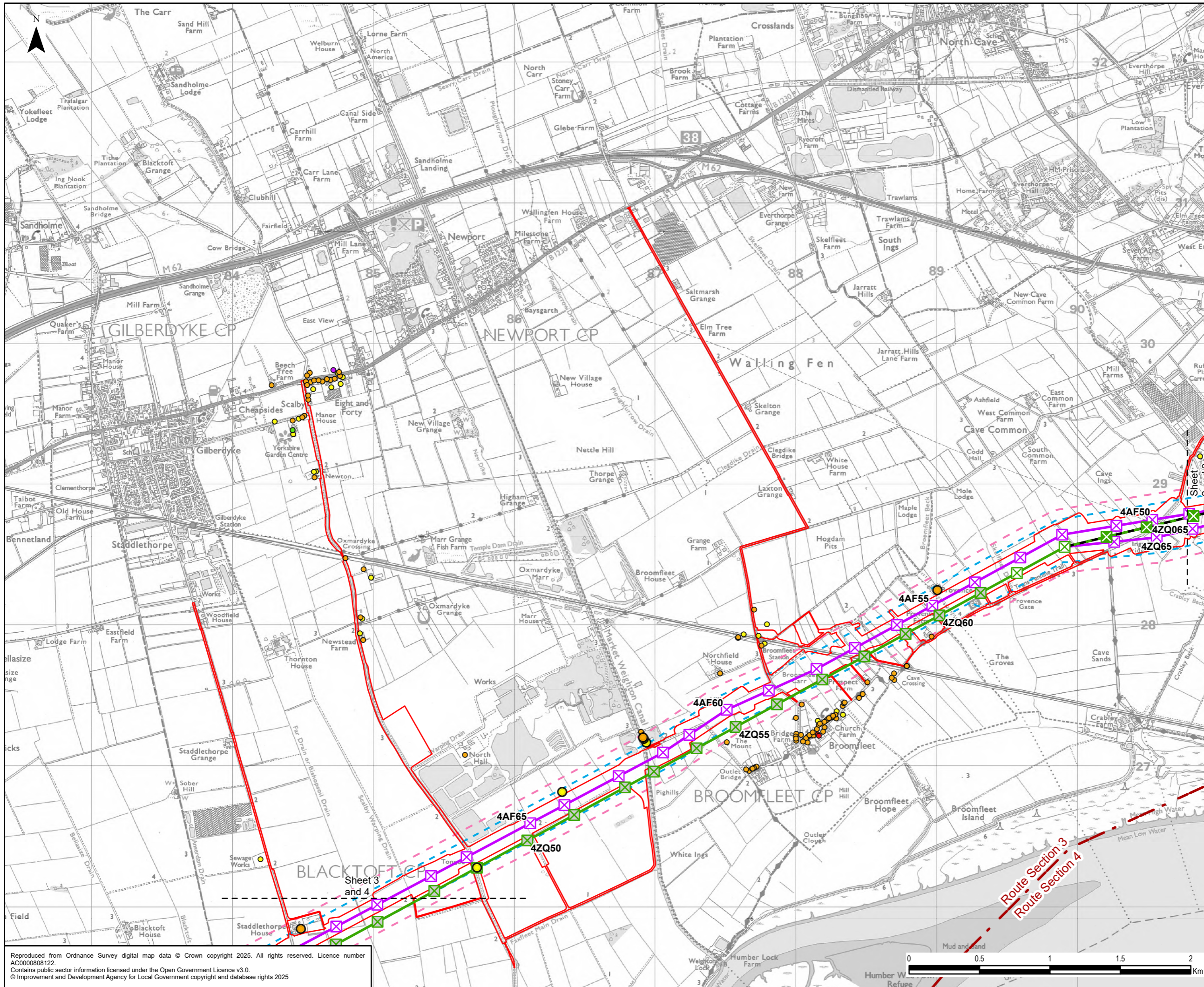
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Scheme: NORTH HUMBER TO HIGH MARNHAM

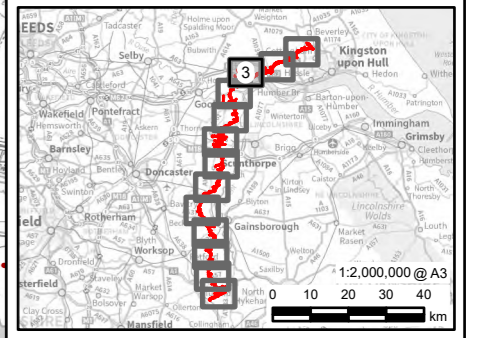
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Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.3	Scale: 1:25,000	Format: A3	Sheets: 2 OF 13	Rev: 0.1	

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- Legend**
- Draft Order Limits
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Existing Overhead Line Not Affected
 - Existing Overhead Line to be Dismantled
 - Existing Lattice Pylon Not Affected
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 - Residential
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Rev	Date	Description	GIS	Chk	App

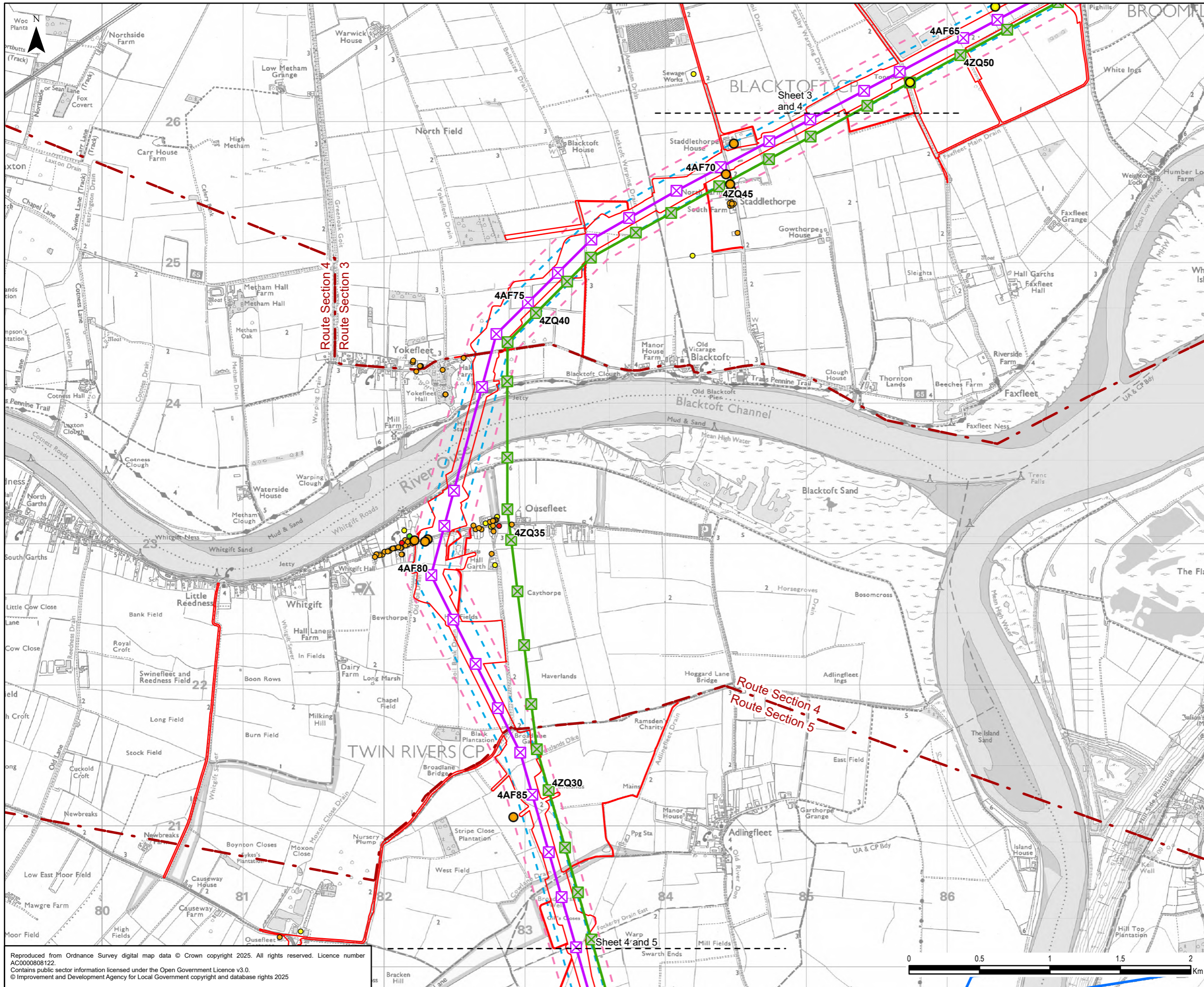
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Scheme: NORTH HUMBER TO HIGH MARNHAM

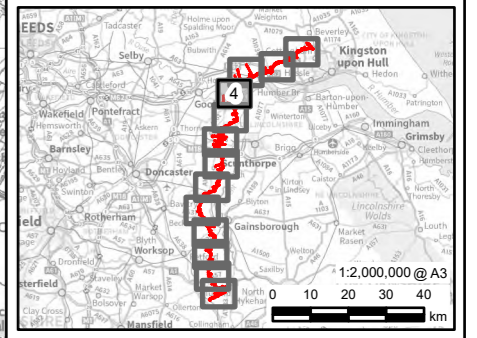
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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
Figure Ref:	Scale:	Format:	Sheets:	Rev:	
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- Legend**
- Draft Order Limits
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 - Indicative New Overhead Line
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 - Existing Overhead Line Not Affected
 - Existing Lattice Pylon Not Affected
 - Address Receptor
 - Residential
 - Other
 - Noise and Vibration Data
 - 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
 - Address Receptor
 - Commercial
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Rev	Date	Description	GIS	Chk	App

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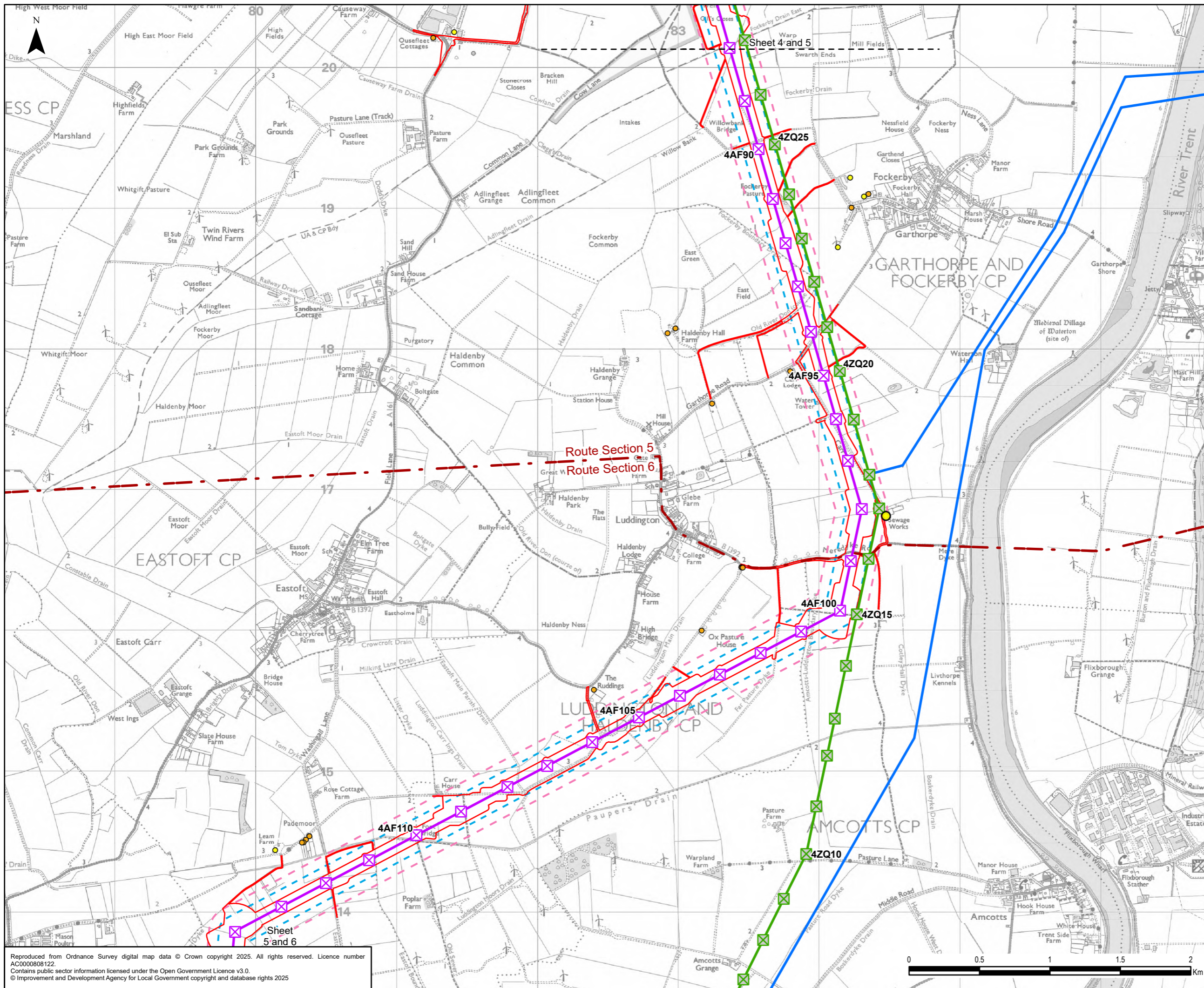
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Figure Title: FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE

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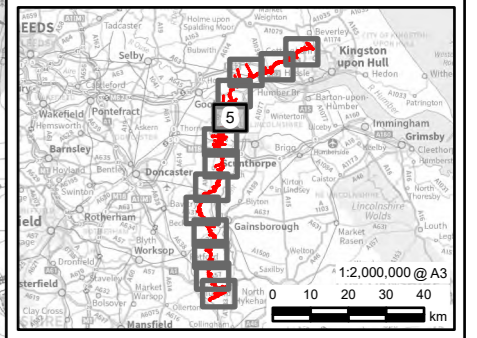
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Legend

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- Indicative New Overhead Line
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- Existing Lattice Pylon Not Affected
- Address Receptor
- Other
- Noise and Vibration Data
- 60 m Screening Distance for High Noise Sensitive Receptors
- 130 m Screening Distance for Residential Receptors
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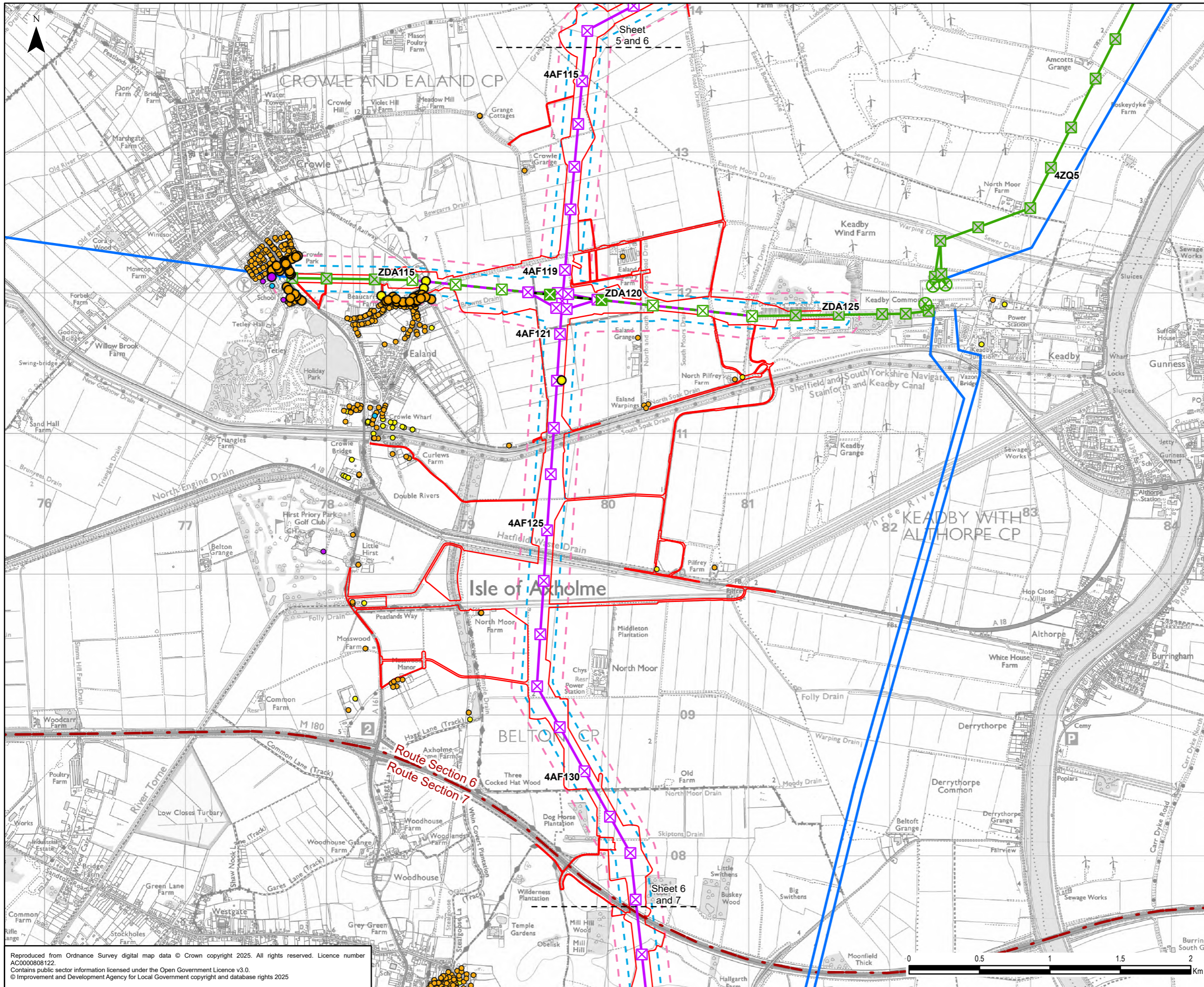
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Scheme: NORTH HUMBER TO HIGH MARNHAM

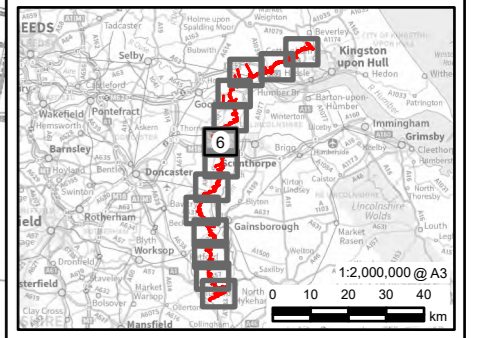
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Figure Ref:	Scale:	Format:	Sheets:	Rev:	
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- Legend**
- Draft Order Limits
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 - Indicative New Overhead Line
 - Indicative New Lattice Pylon
 - Existing 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
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Residential
 - Other
 - Noise and Vibration Data
 - 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
 - Address Receptor
 - Attraction, Sports and Entertainment
 - Commercial
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 - Other



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Rev	Date	Description	GIS	Chk	App

nationalgrid

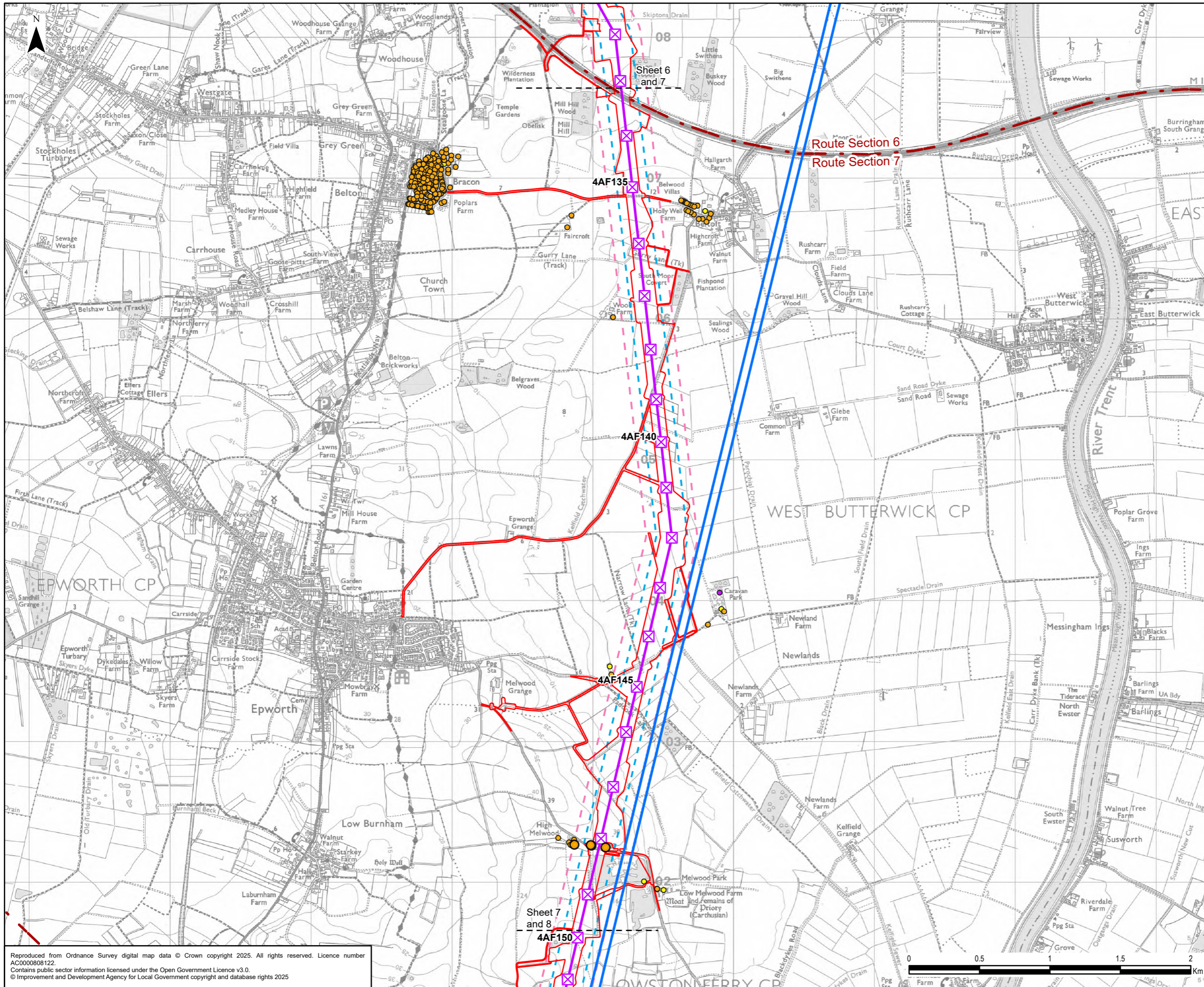
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE

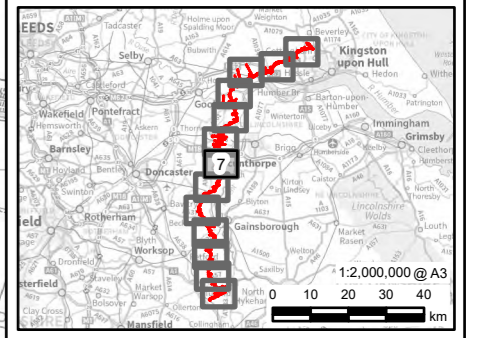
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- Legend**
- Draft Order Limits
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 - Residential
 - Noise and Vibration Data
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 - 130 m Screening Distance for Residential Receptors
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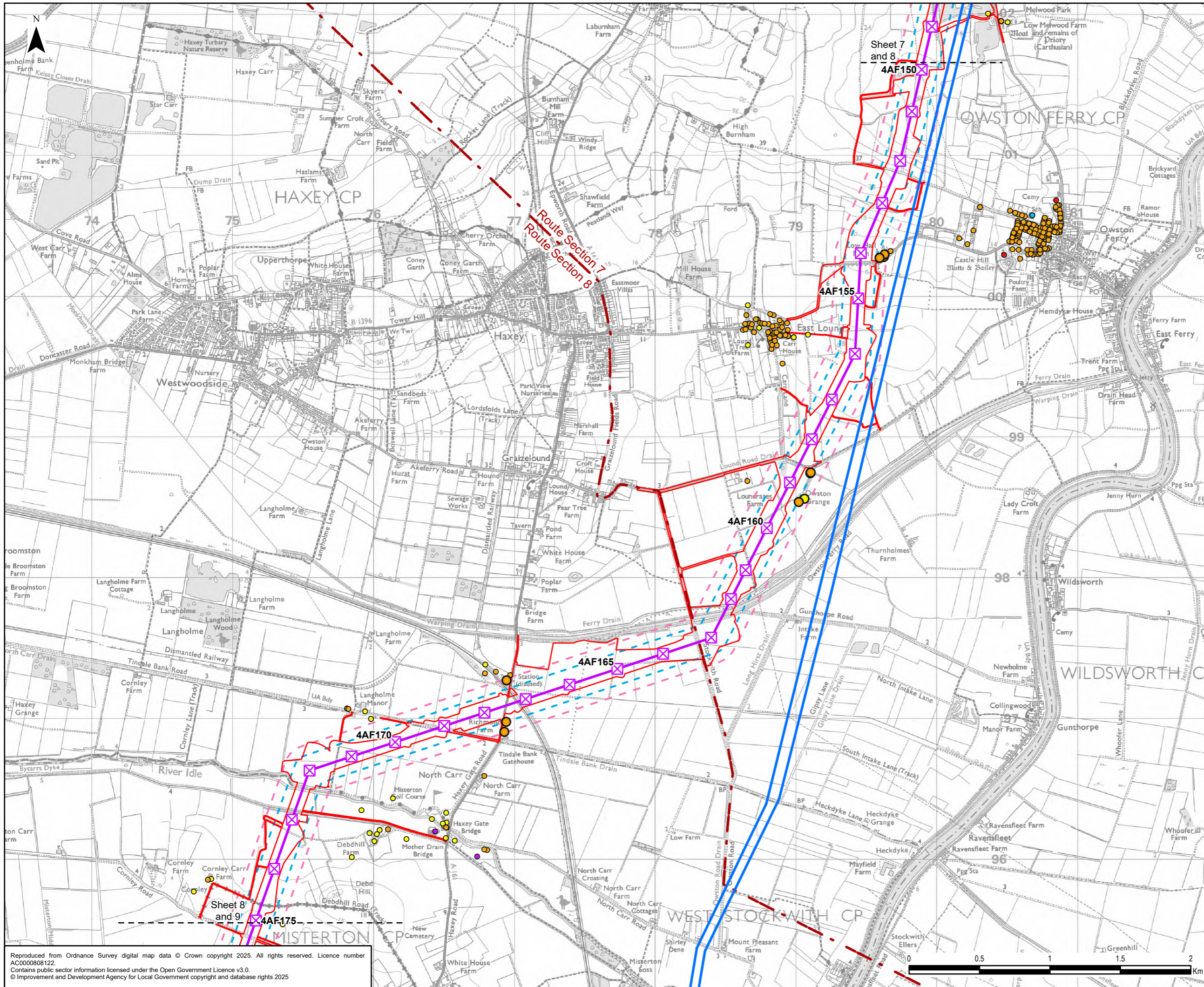
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Scheme: NORTH HUMBER TO HIGH MARNHAM

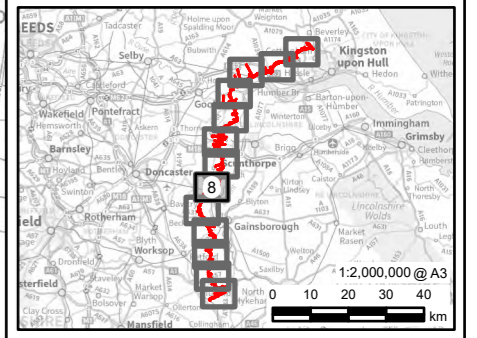
Figure Title: **FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE**

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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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- Legend**
- Draft Order Limits
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 - Noise and Vibration Data
 - 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
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 - Commercial
 - Community Services
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Rev	Date	Description	GIS	Chk	App

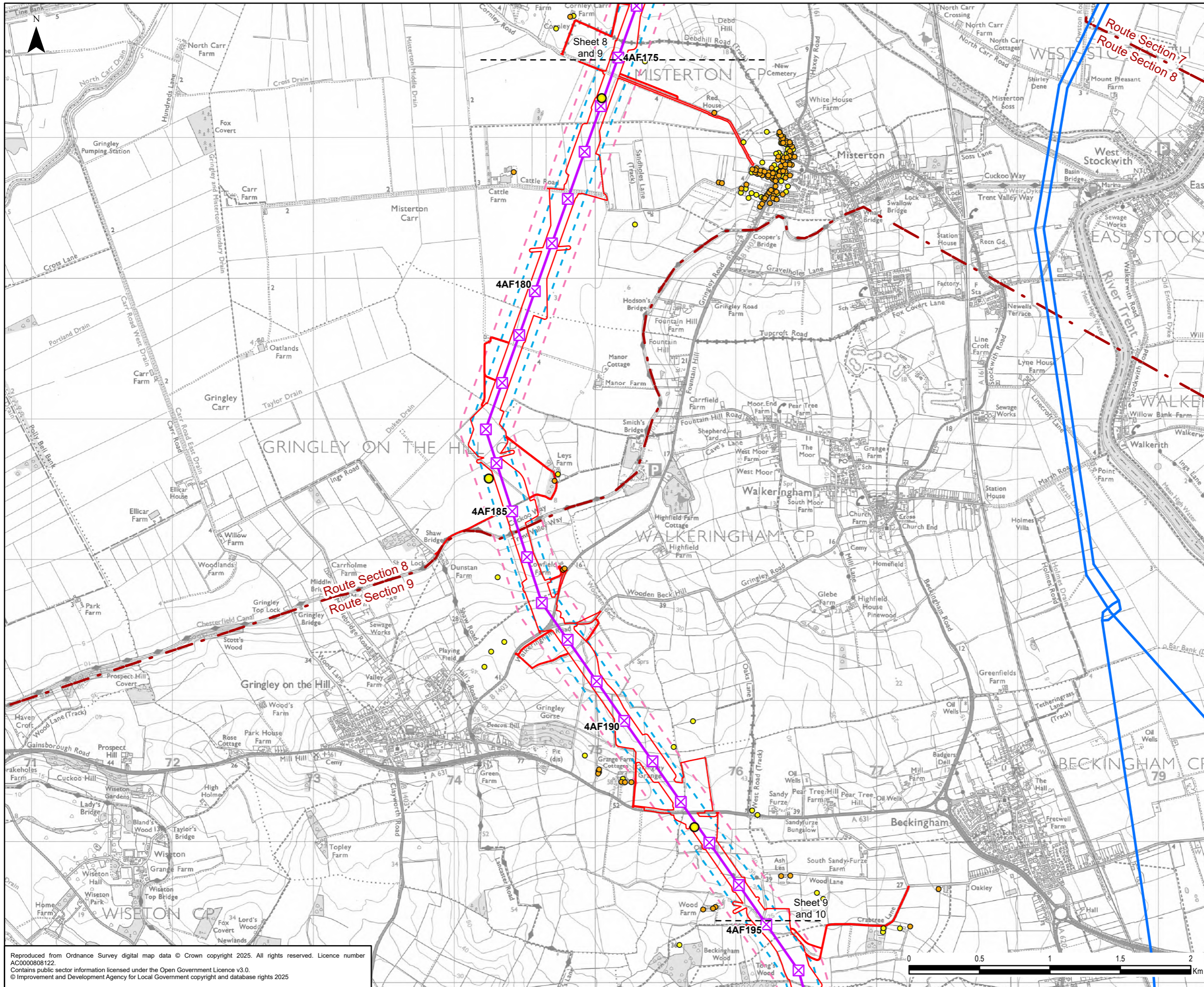
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Scheme: NORTH HUMBER TO HIGH MARNHAM

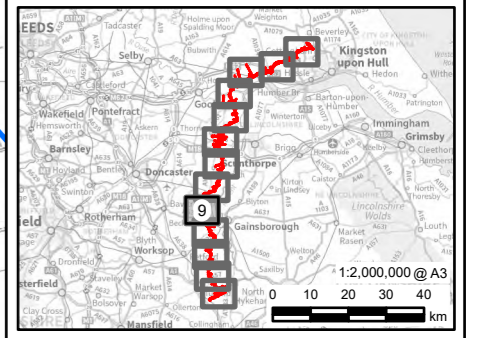
Figure Title: FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE

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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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- Legend**
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 - 60 m Screening Distance for High Noise Sensitive Receptors
 - 130 m Screening Distance for Residential Receptors
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 - Other



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Rev	Date	Description	GIS	Chk	App

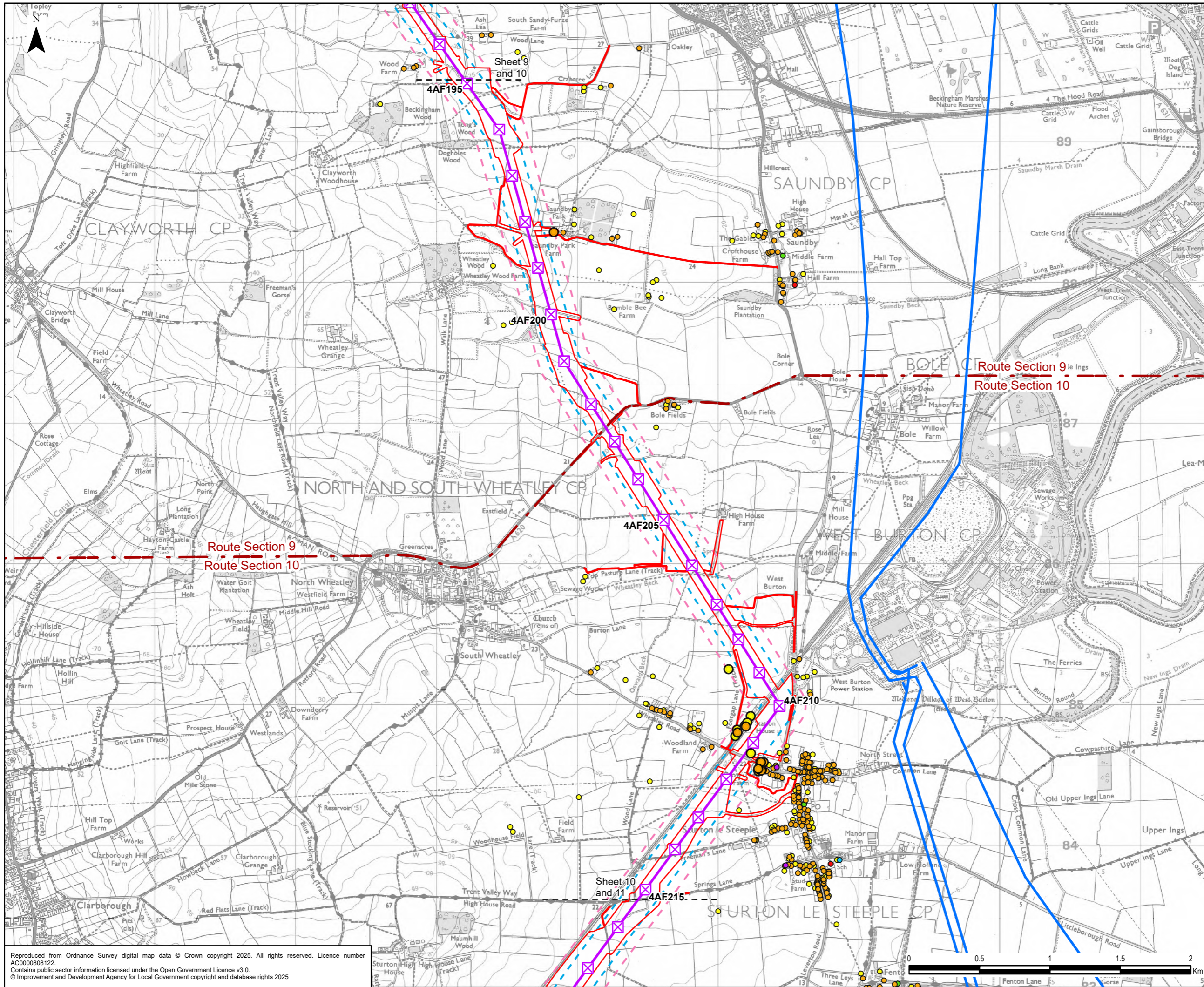
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Scheme: NORTH HUMBER TO HIGH MARNHAM

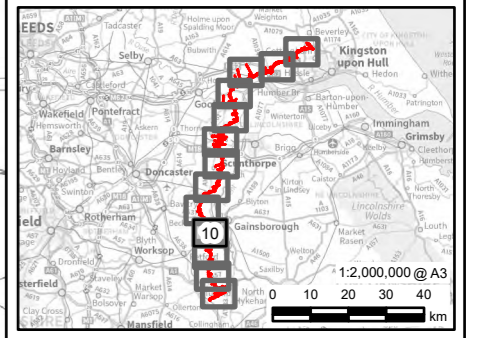
Figure Title: FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE

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MH	15/01/2025	JG	15/01/2025	WW	15/01/2025
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- Legend**
- Draft Order Limits
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 - Residential
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 - Address Receptor
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 - Education
 - Residential
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Rev	Date	Description	GIS	Chk	App

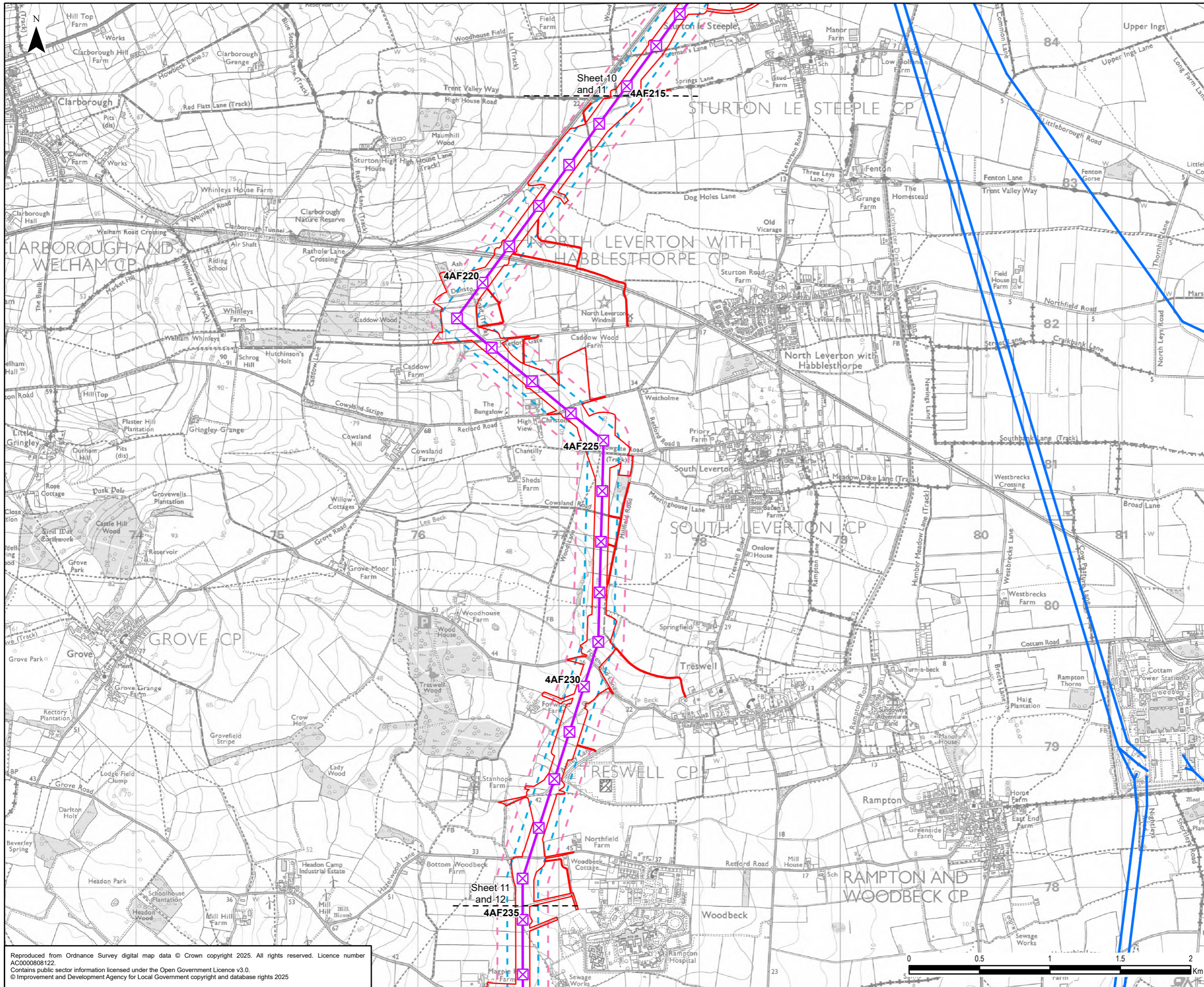
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Scheme: NORTH HUMBER TO HIGH MARNHAM

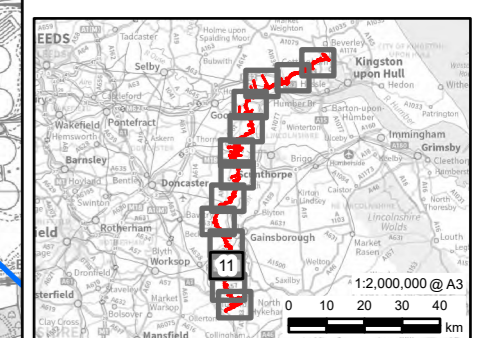
Figure Title: FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE

Creator: MH	Date: 15/01/2025	Checker: JG	Date: 15/01/2025	Approver: WW	Date: 15/01/2025
Figure Ref: 16.3	Scale: 1:25,000	Format: A3	Sheets: 10 OF 13	Rev: 0.1	

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- Legend**
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 - Residential
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 - 130 m Screening Distance for Residential Receptors
 - Address Receptor
 - Attraction, Sports and Entertainment
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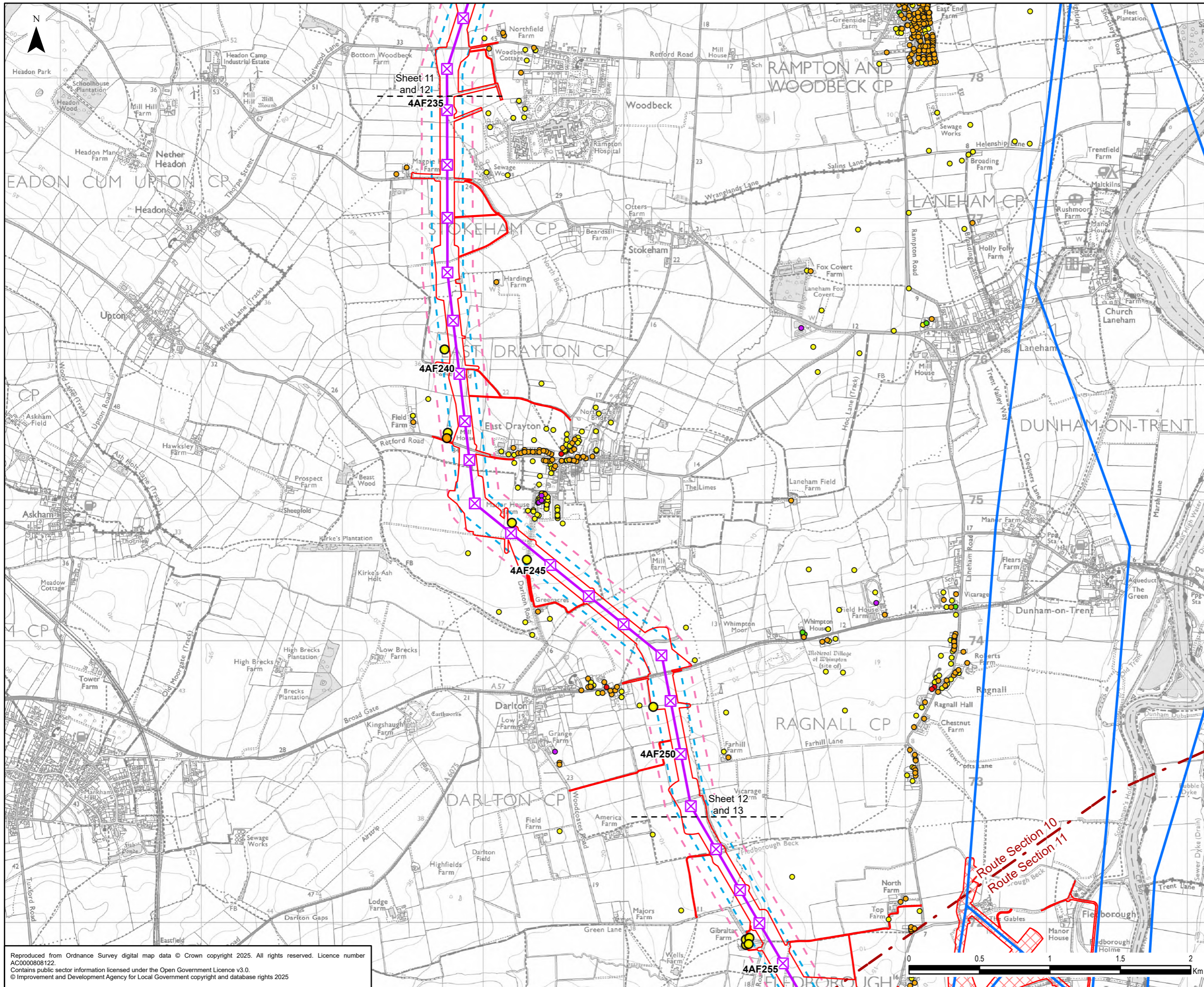
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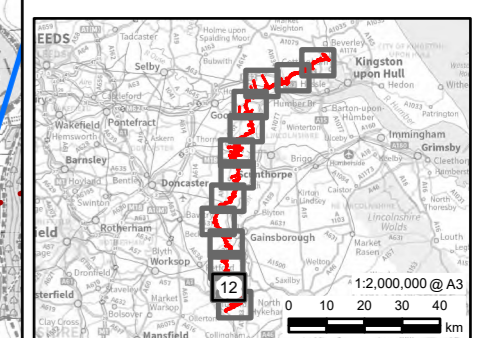
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- Legend**
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 - Noise and Vibration Data
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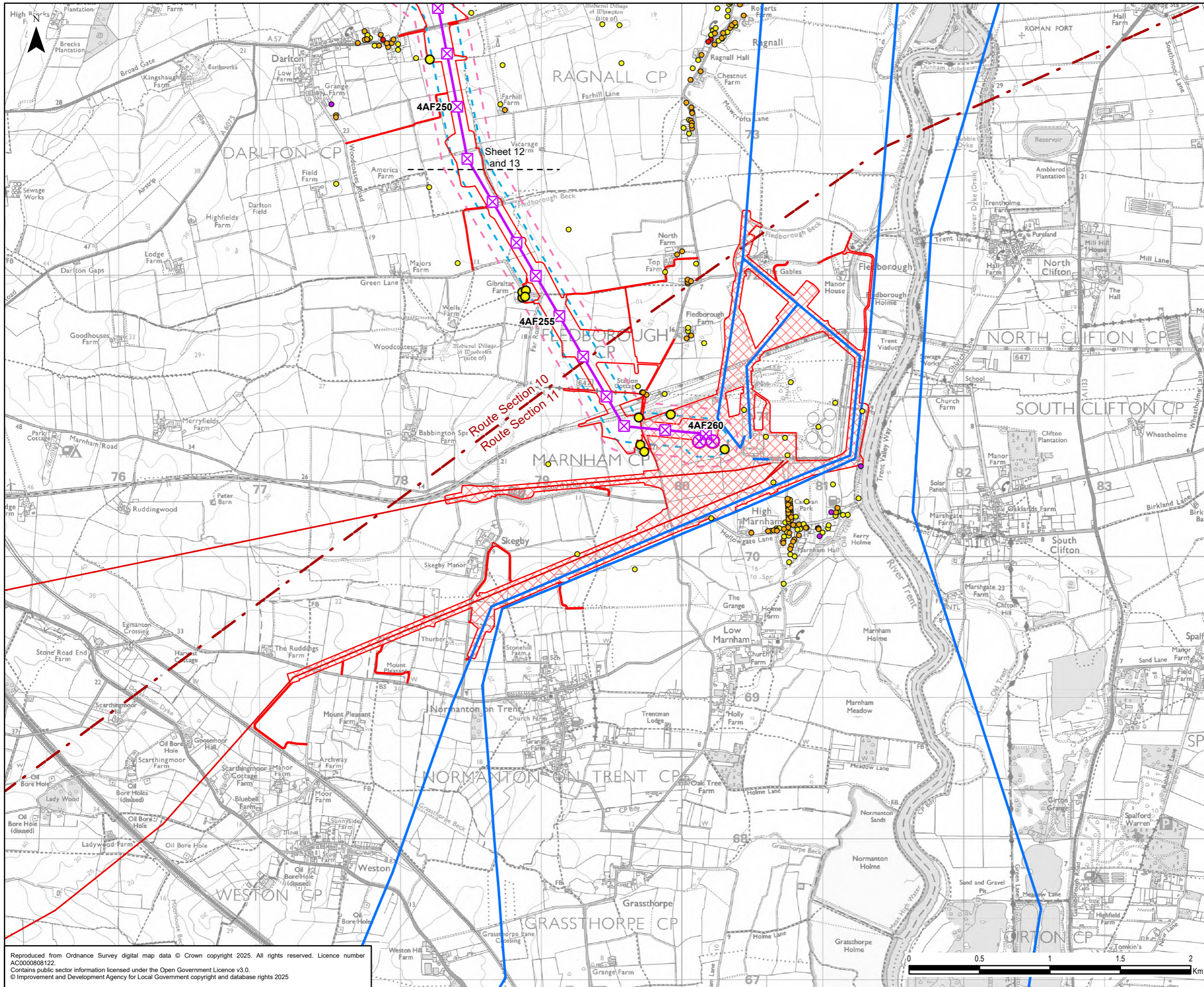
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Figure Title:
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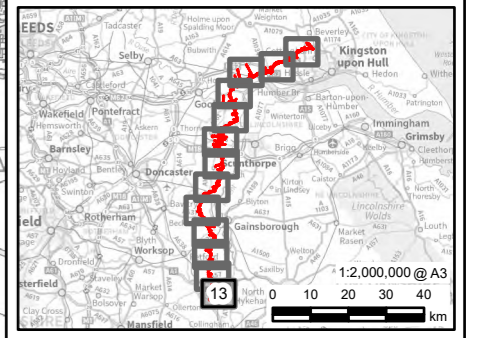
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- Legend**
- Draft Order Limits
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 - Indicative New Gantry
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 - Noise and Vibration Data
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 - Attraction, Sports and Entertainment
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: **FIGURE 16.3 - NOISE SENSITIVE RECEPTORS AFFECTED BY OVERHEAD LINE NOISE**

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