The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-ONS-REP-0082

North Humber to High Marnham

Volume 6: Environmental Statement

Document 6.12.F1 Environmental Statement Figure 12.1 - Superficial Geology

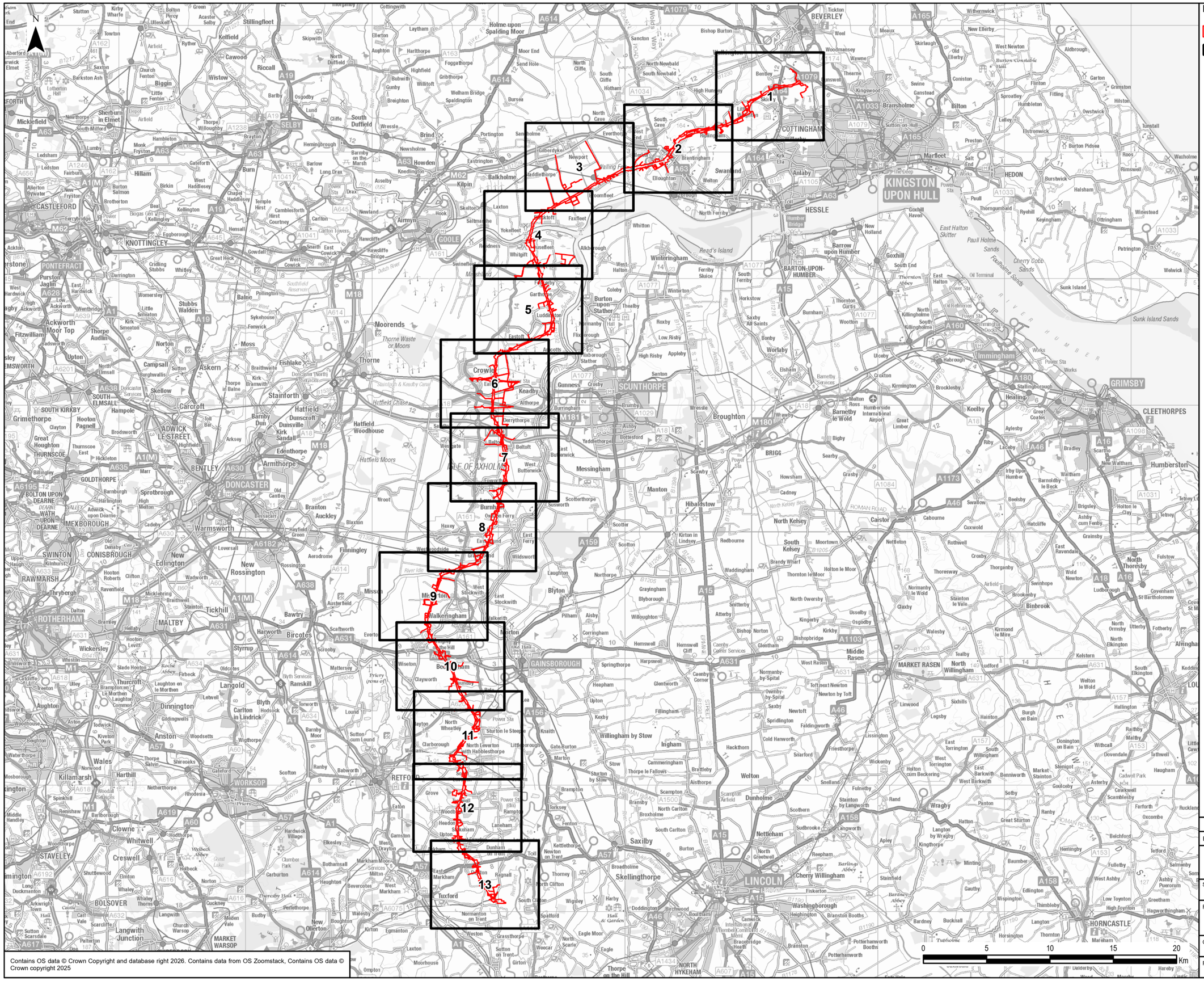
Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

nationalgrid



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0	03/08/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

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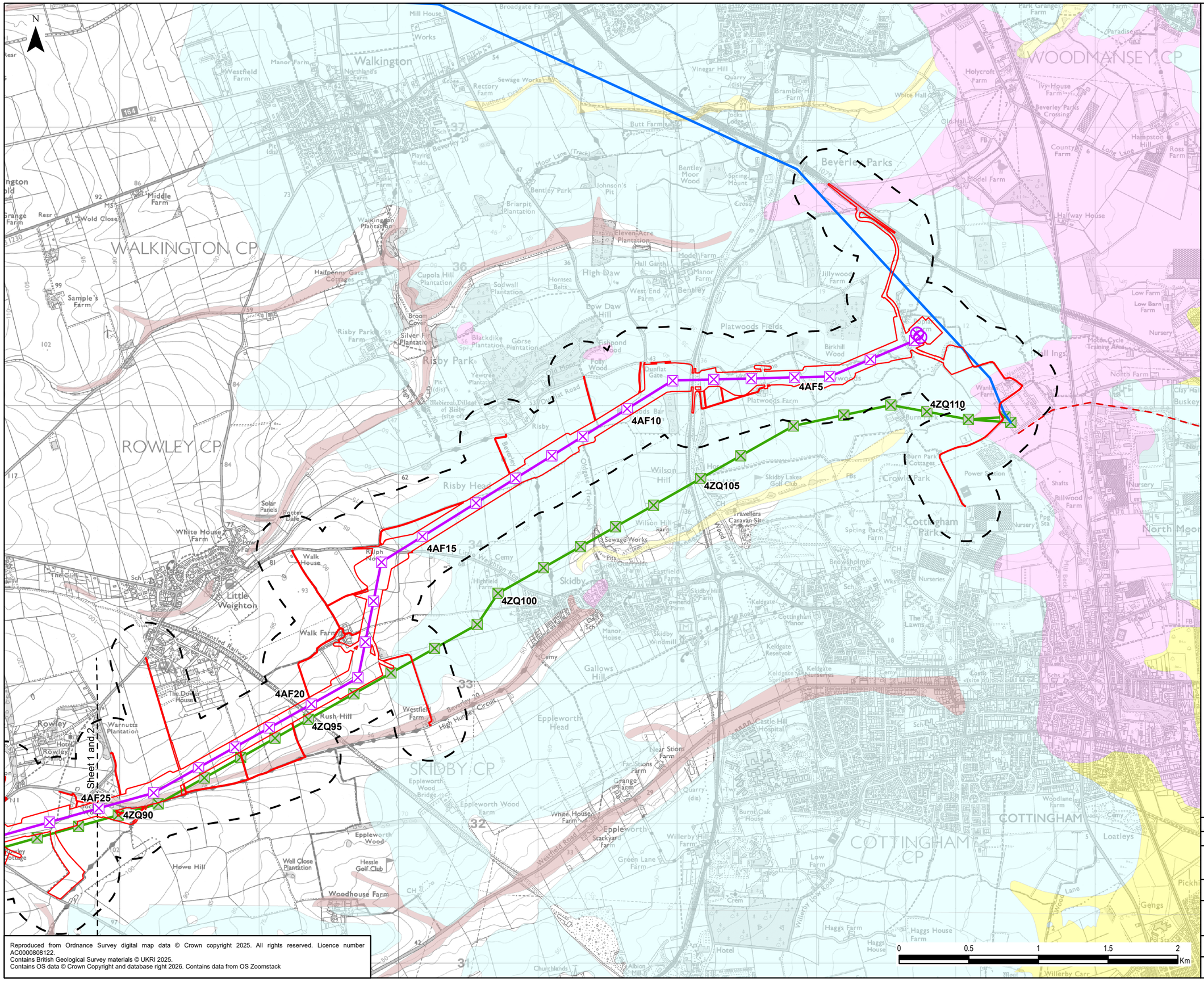
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Figure Title: FIGURE 12.1 - SUPERFICIAL GEOLOGY KEY PLAN

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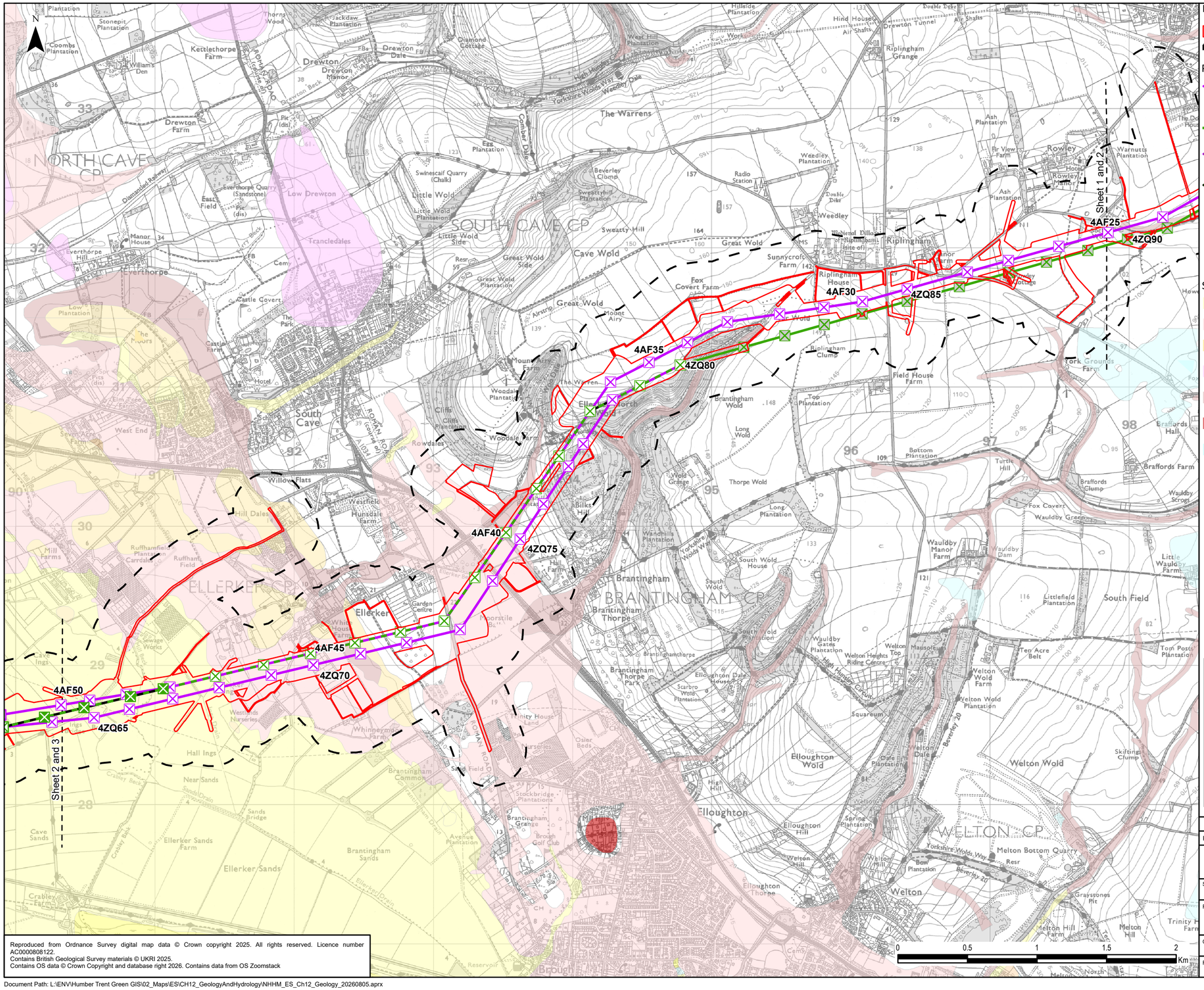
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.1 - SUPERFICIAL GEOLOGY

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Legend

- Order Limits
- 250 m Study Area

Project Design Details

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

Superficial Geology

- Alluvium - clay, silt, sand and gravel
- Bielby sand member - sand, gravelly
- Blown sand - sand
- Glaciofluvial Deposits, Mid Pleistocene - Sand and gravel
- Head - clay, silt, sand and gravel
- Interglacial beach deposits - sand and gravel
- Till, devensian - diamicton

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.1 - SUPERFICIAL GEOLOGY

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4AF50
4ZQ65
4AF55
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4ZQ55
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4ZQ50
4AF70

Sheet 2 and 3

Sheet 3 and 4

GILBERDYKE CP
NEWPORT CP
BROOMFLEET CP
BLACKTOFT CP

Walking Fen

Newport
Gilberdyke
Staddlethorpe
Bennetland
Bellasize
Warwicks
North Field
Cave Common
Broomfleet
Broomfleet Hope
Broomfleet Island
Mud and Sand
White Ings
Pighills
Nettle Hill
North Cave
Crosslands
Trawlams
South Ings
Jarratt Hills
Cave Sands
The Groves

0 0.5 1 1.5 2 Km

Legend

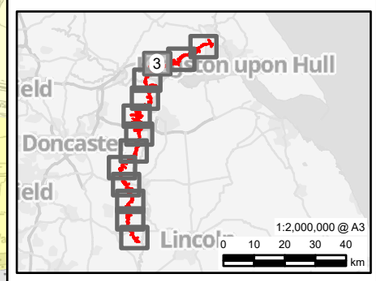
- Order Limits
- 250 m Study Area

Project Design Details

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- 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

Superficial Geology

- Alluvium - clay, silt, sand and gravel
- Breighton sand formation (sand)
- Glaciofluvial deposits, Devensian - sand and gravel
- Hemingbrough glaciolacustrine formation - clay, silty
- Warp - clay and silt



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Scheme: NORTH HUMBER TO HIGH MARNHAM

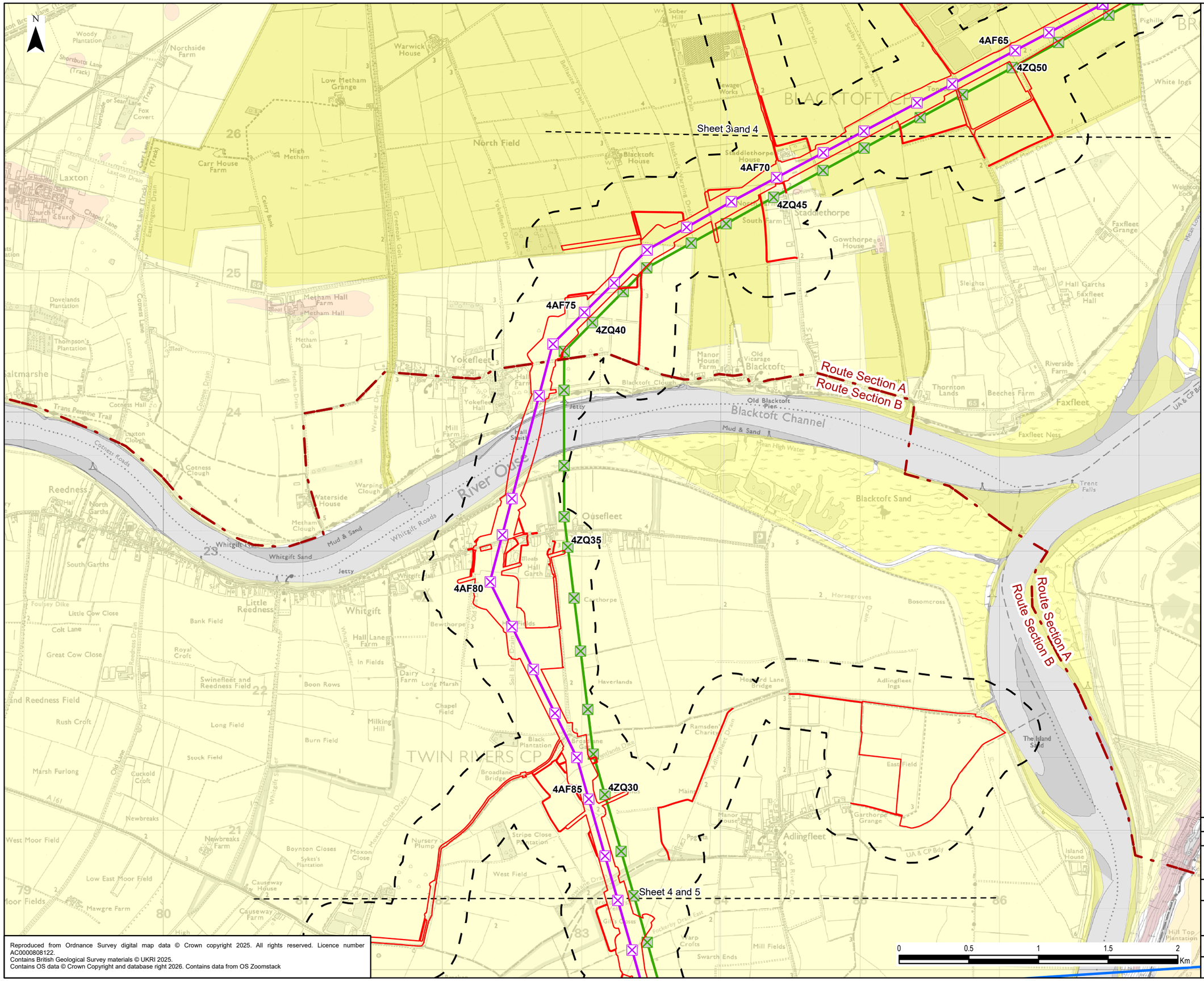
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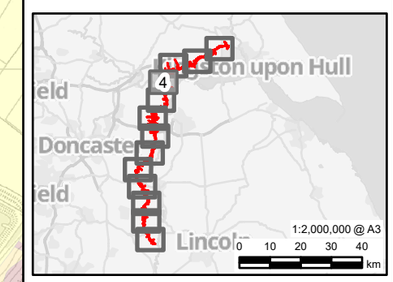
Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Breighton sand formation (sand)
- Warp - clay and silt
- Tidal flat deposits - clay and silt



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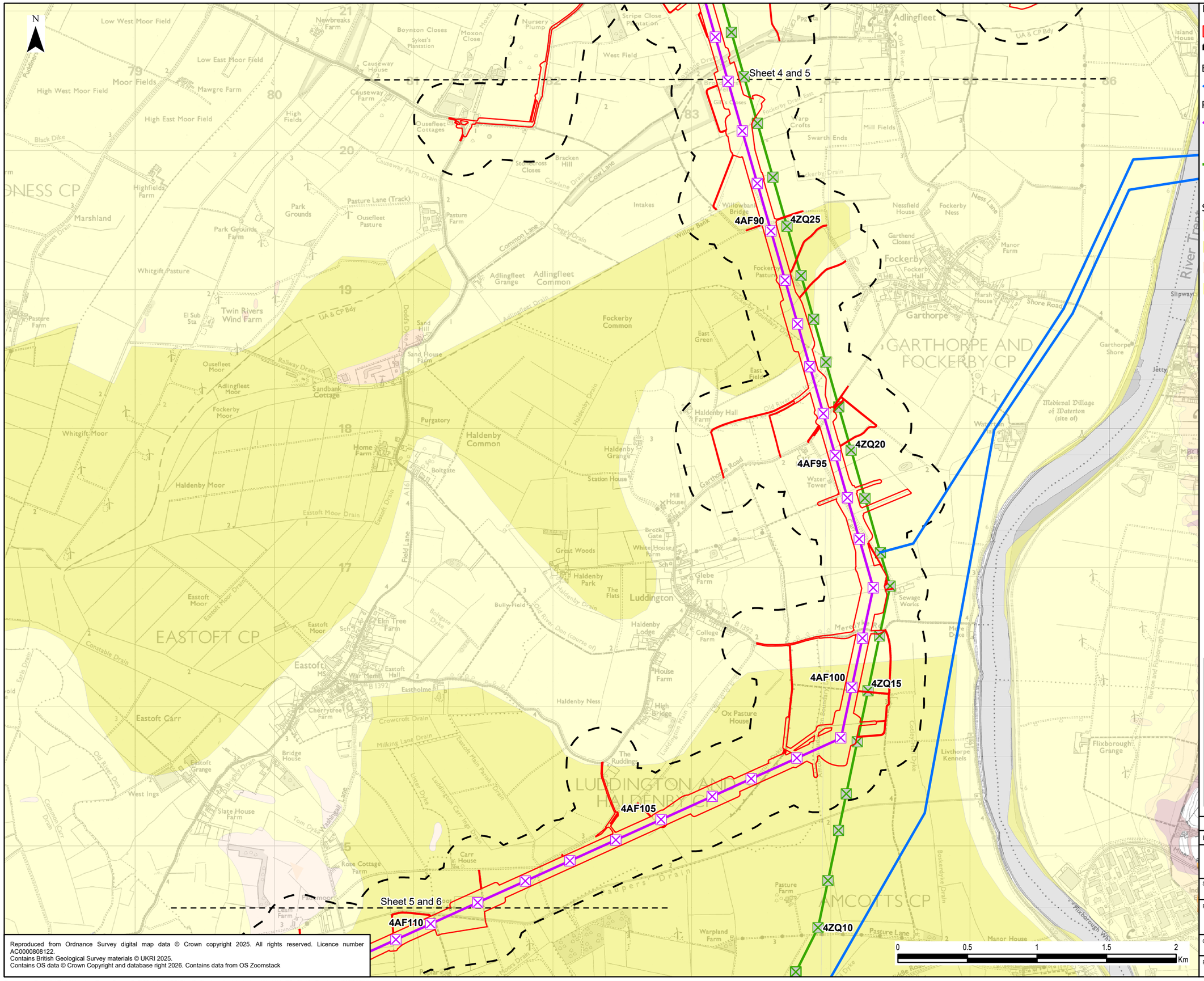
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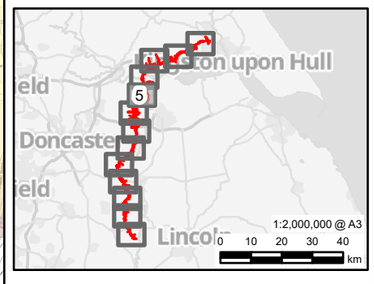
Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Warp - clay and silt
- Sutton sand formation - sand
- Tidal flat deposits - clay and silt



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

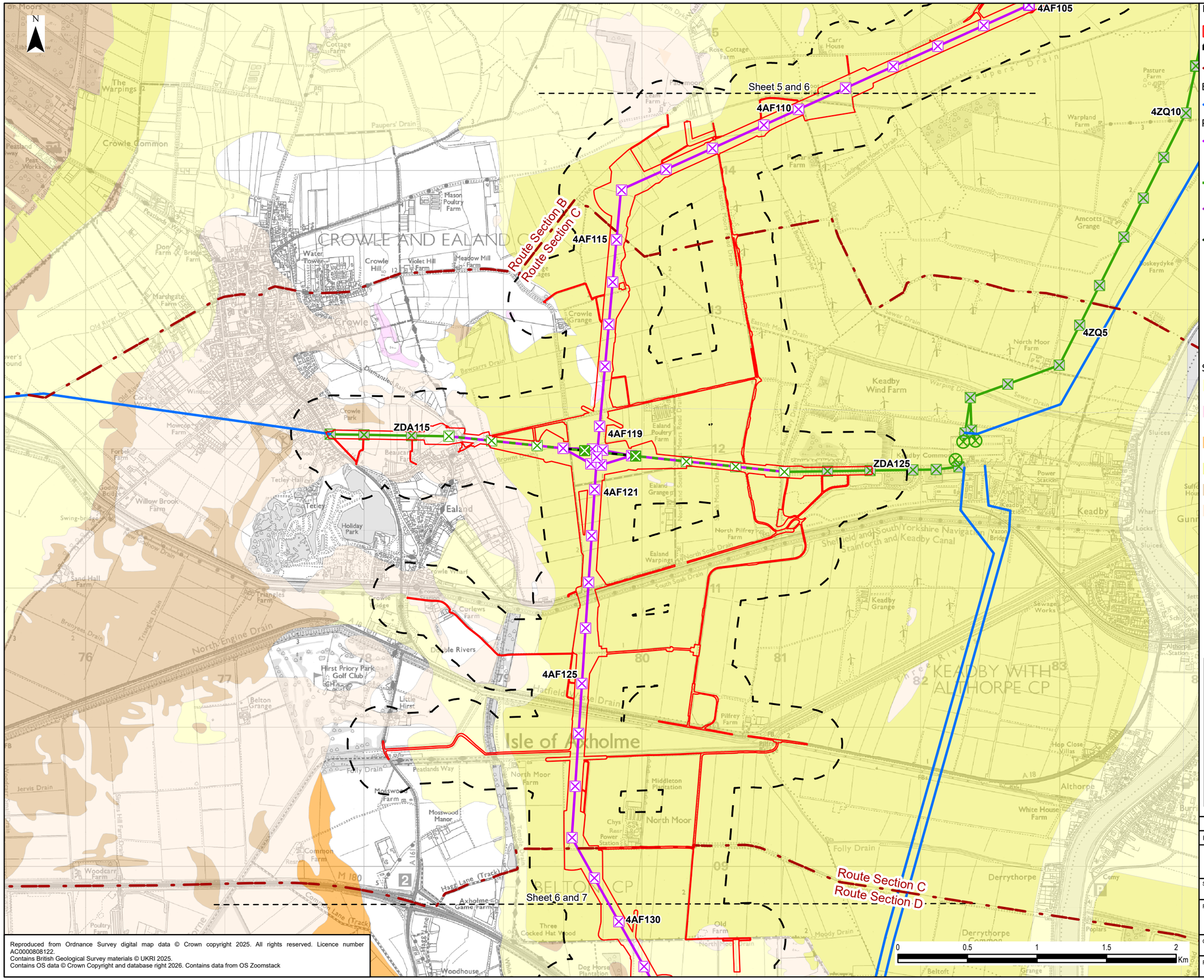
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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- 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

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Glaciofluvial deposits, Devensian - sand and gravel
- Hemingbrough glaciolacustrine formation - clay, silty
- Warp - clay and silt
- Peat - peat
- Sutton sand formation - sand

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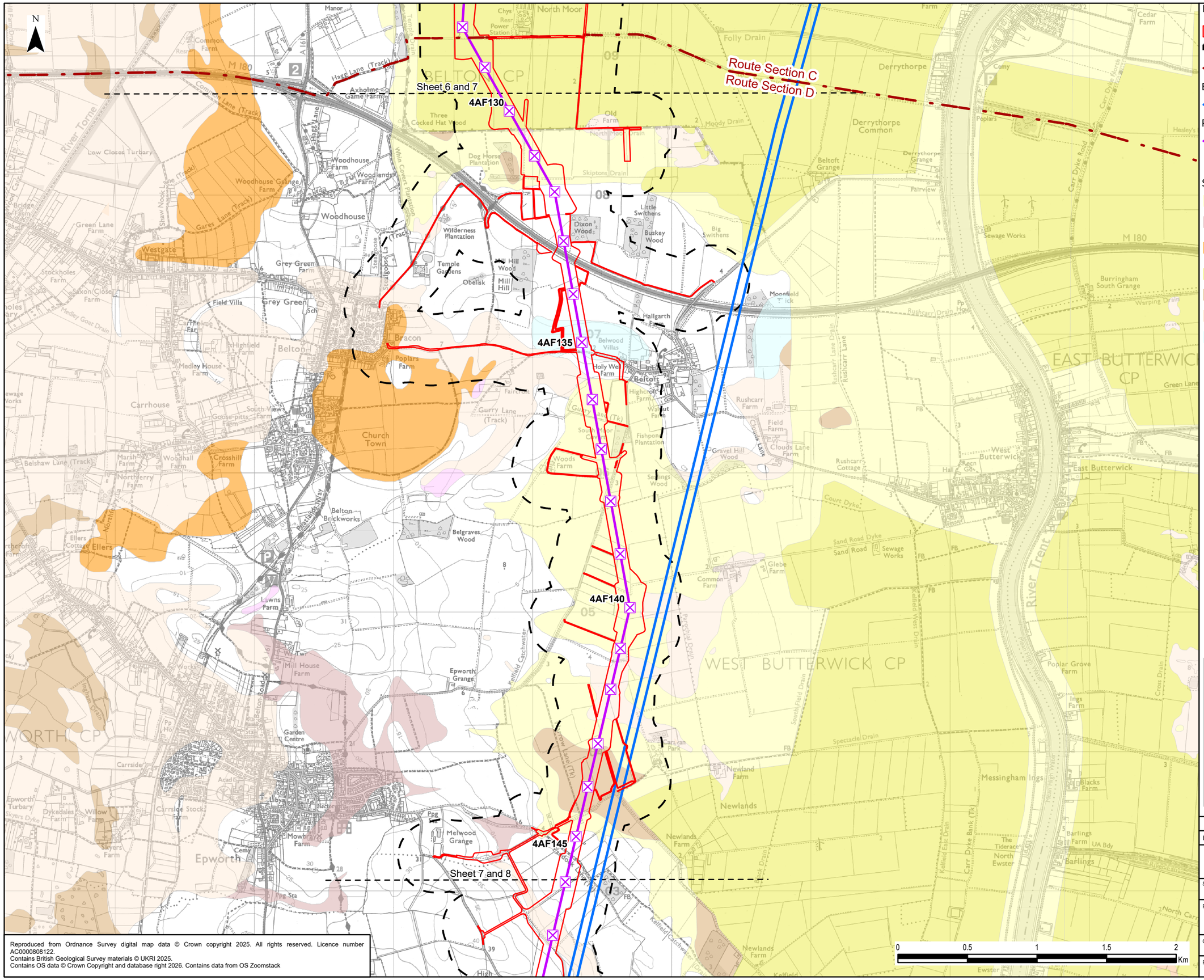
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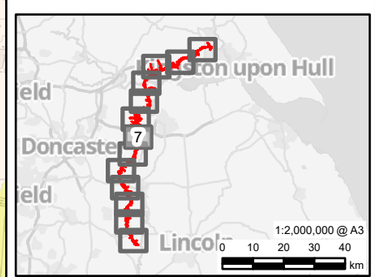
Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Head - clay, silt, sand and gravel
- Hemingbrough glaciolacustrine formation - clay, silty
- Warp - clay and silt
- Peat - peat
- Sutton sand formation - sand
- Till, mid pleistocene - diamicton



Rev	Date	Description			
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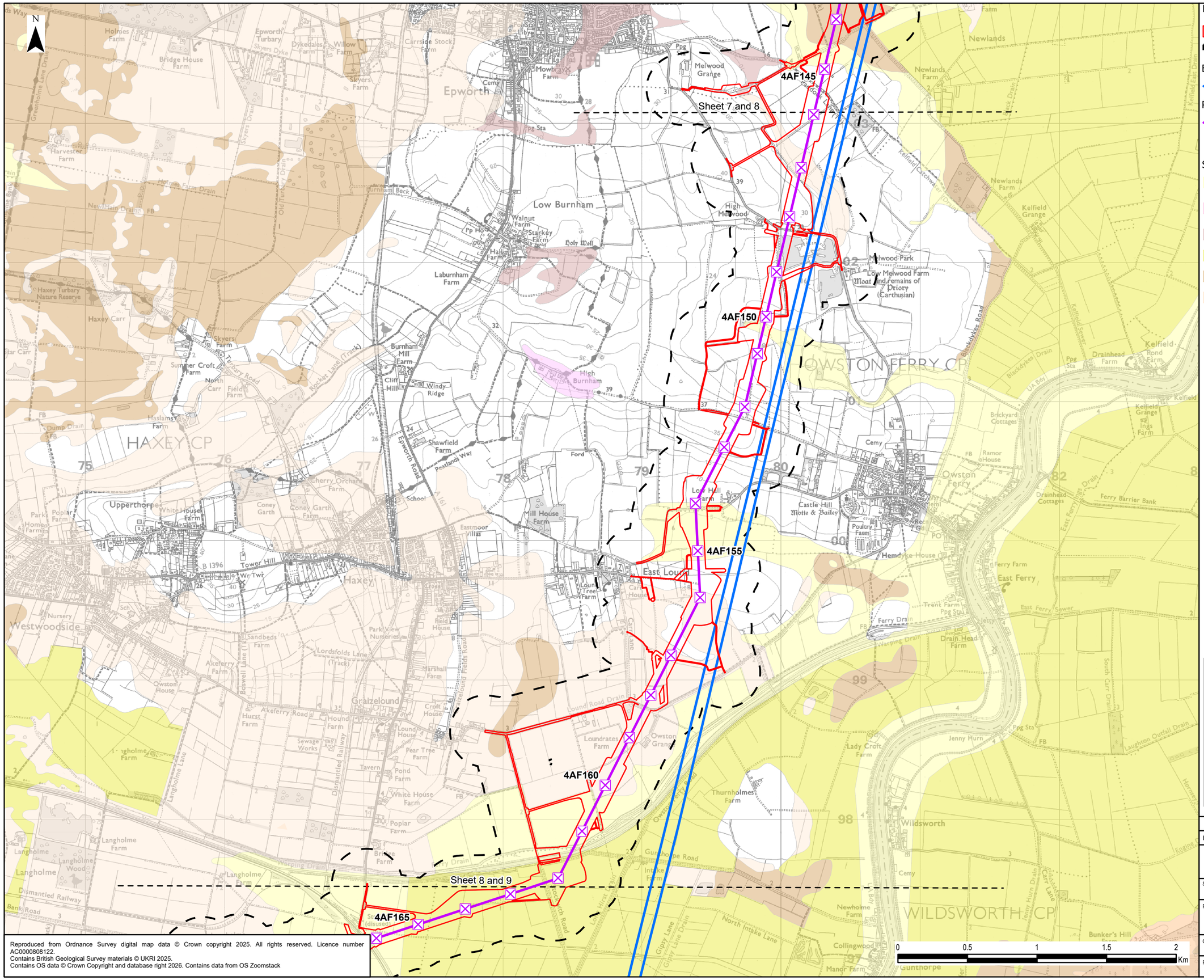
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Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Glaciofluvial deposits, Devensian - sand and gravel
- Head - clay, silt, sand and gravel
- Warp - clay and silt
- Peat - peat
- Sutton sand formation - sand

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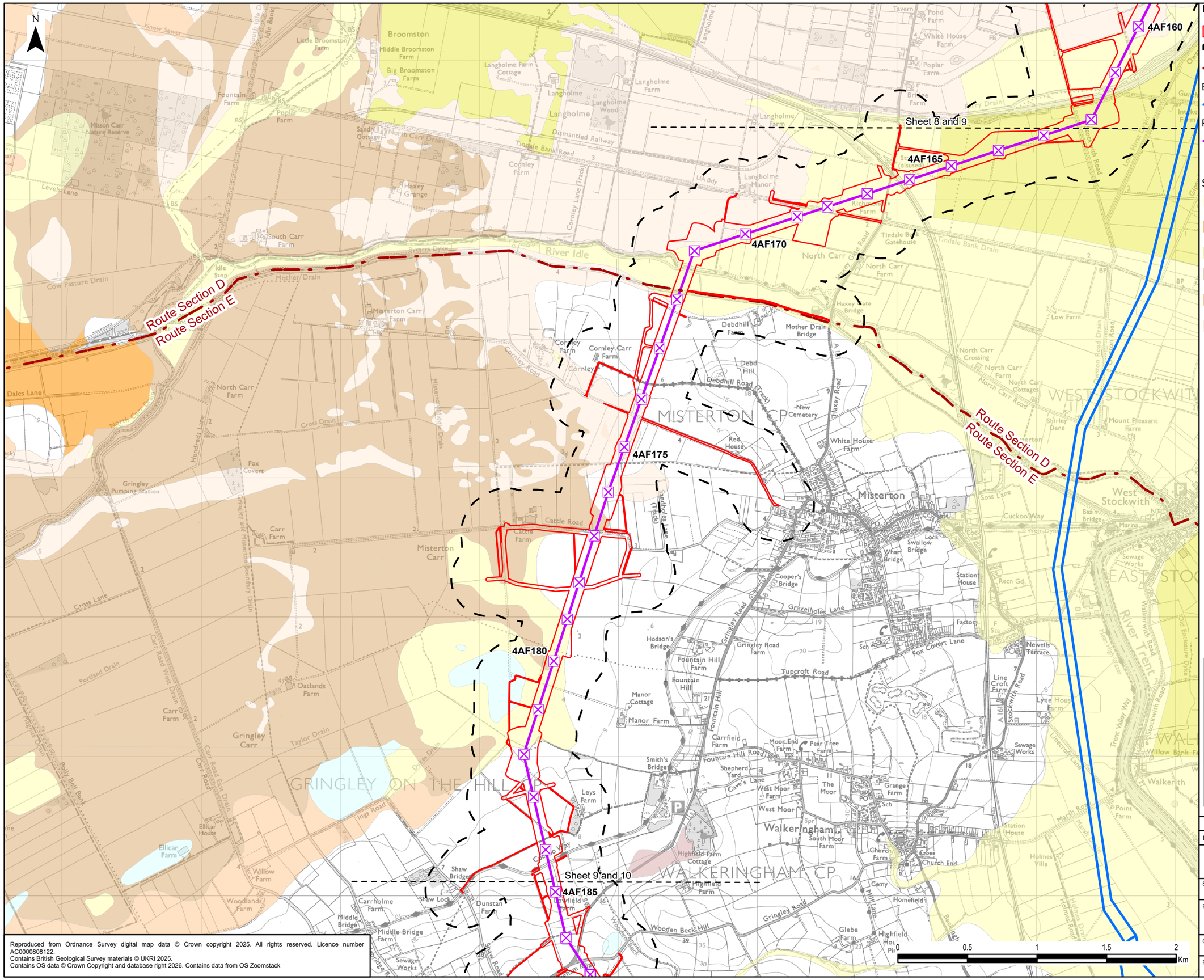
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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

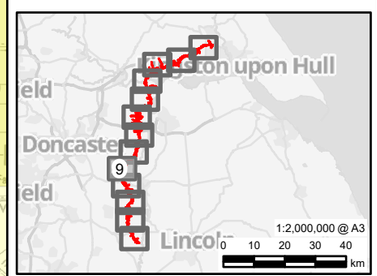
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Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Superficial Geology

- Alluvium - clay, silt, sand and gravel
- Hemingbrough glaciolacustrine formation - clay, silty
- Warp - clay and silt
- Peat - peat
- River terrace deposits, 1 - sand and gravel
- Sutton sand formation - sand



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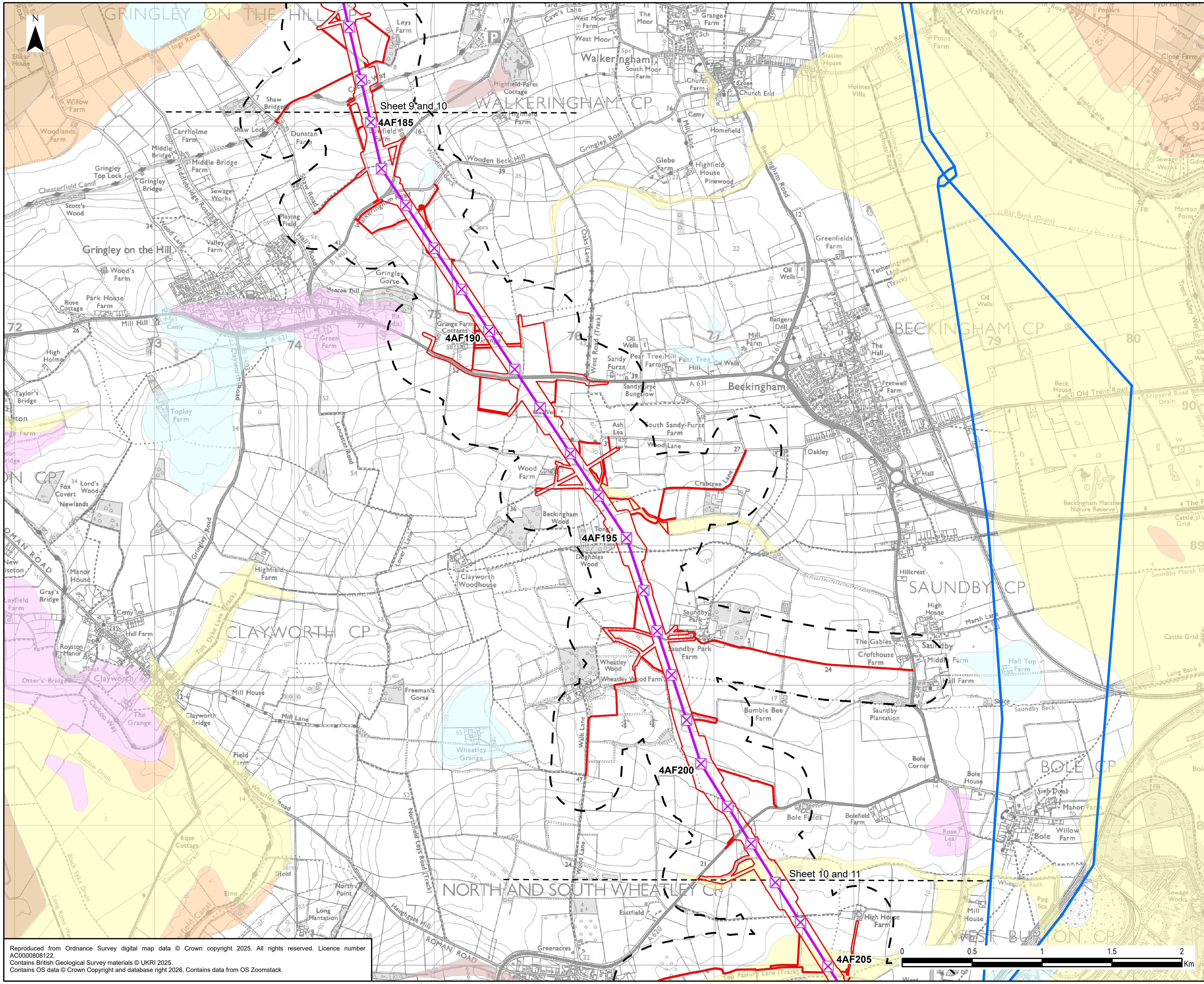
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Legend

Order Limits

250 m Study Area

Existing Overhead Line

400 kV

Project Design Details

Indicative New Overhead Line

Indicative New Lattice Pylon

Superficial Geology

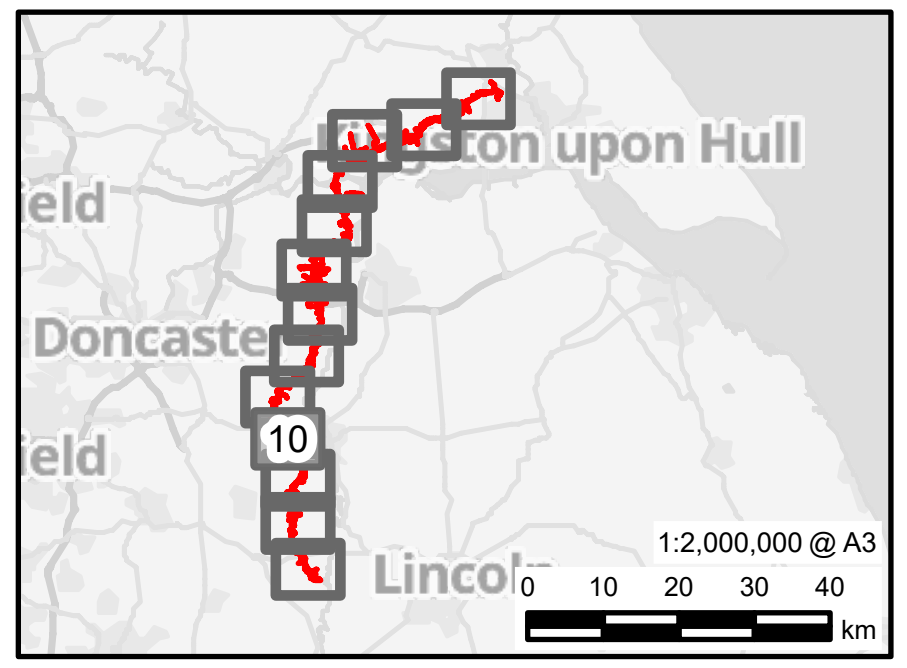
Alluvium - clay, silt, sand and gravel

Glaciofluvial Deposits, Mid Pleistocene - Sand and gravel

Head - clay, silt, sand and gravel

River terrace deposits, 1 - sand and gravel

Till, mid pleistocene - diamicton



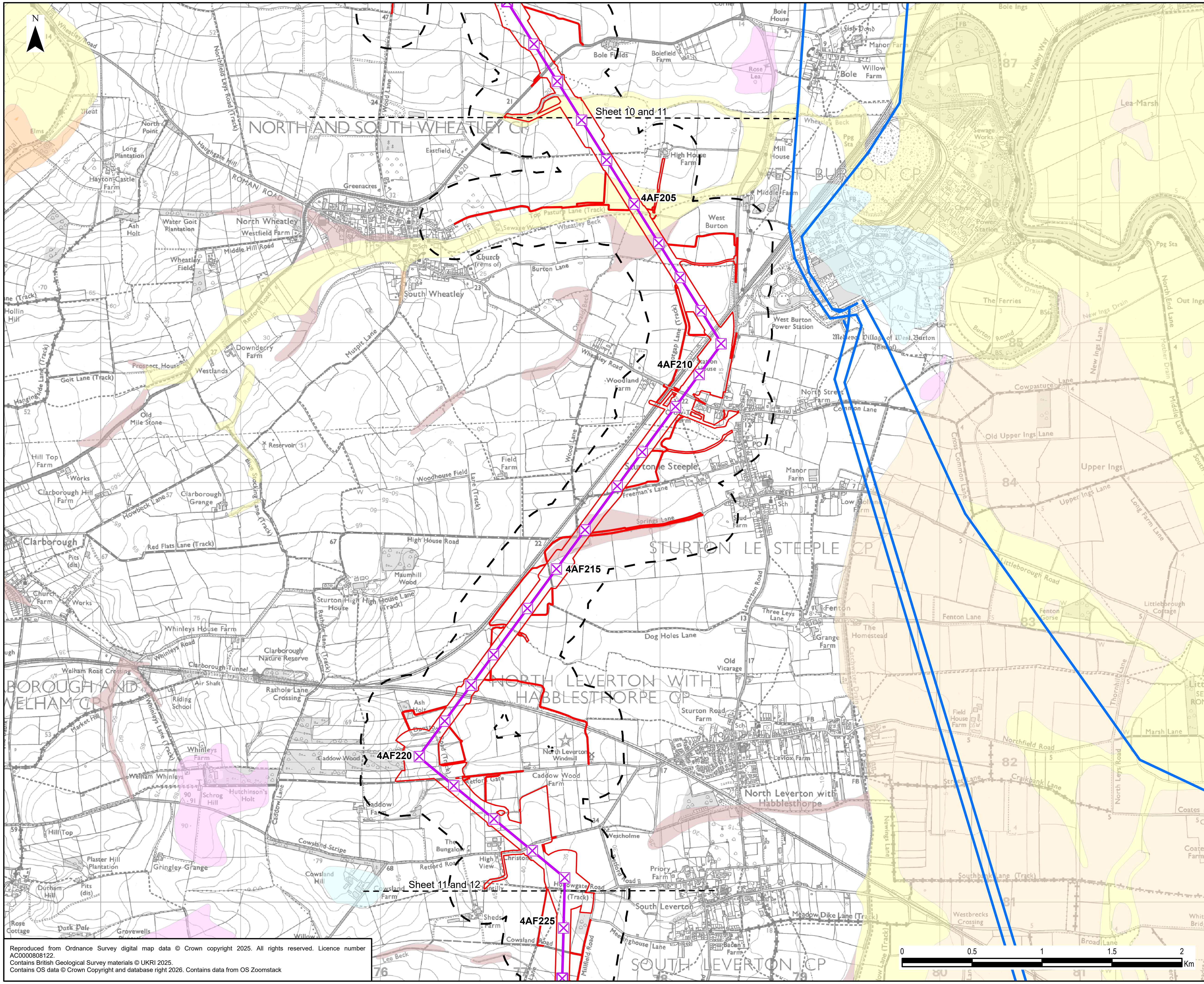
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Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

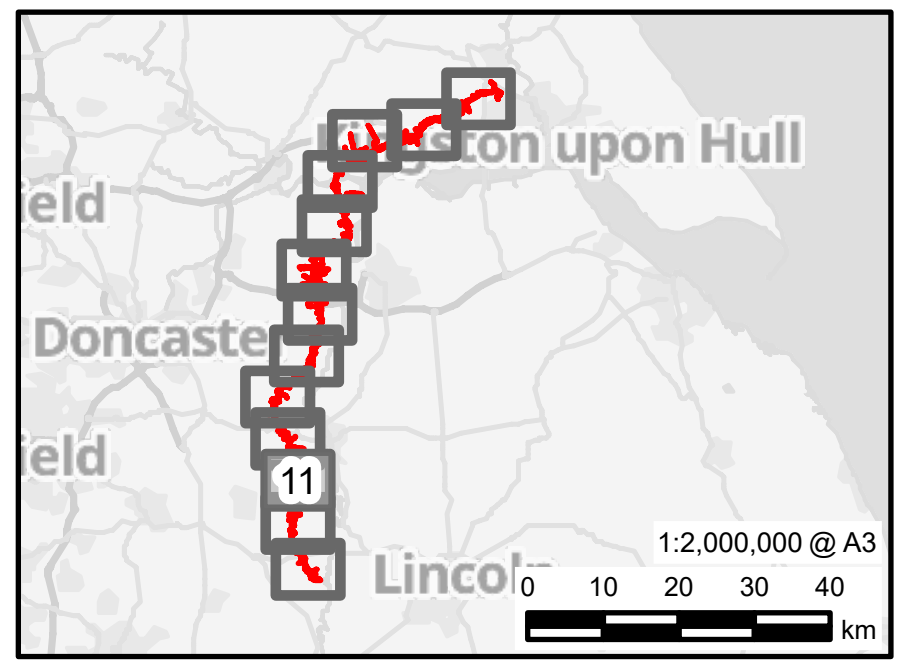
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Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Superficial Geology

- Glaciofluvial Deposits, Mid Pleistocene - Sand and gravel
- Head - clay, silt, sand and gravel
- Holme Pierrepont sand and gravel member - sand and gravel
- River terrace deposits, 1 - sand and gravel



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Sheet 11 and 12

Sheet 12 and 13

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4AF235

4AF240

GROVE CP

SOUTH LEVERTON CP

TRESWELL CP

HEADON CUM UPTON CP

STOKEHAM CP

EAST DRAYTON CP

RAMPTON AND WOODBECK CP

LANEHAM CP

DUNHAM-ON-TRE

Hill Top
Plaster Hill Plantation
Gringley Grange
Durham Hill
Pits (dis)
Rose Cottage
Park Dale
Grovewells Plantation
Kirk Hill Earthwork
Castle Hill Wood
Reservoir
Grove Park
Grove
Grove Grange Farm
Rectory Plantation
Grovefield Stripe
Lodge Field Clump
Grove Road
Darlton Holt
Lady Wood
Crow Holt
Cowsland Stripe
Cowsland Hill
Cowsland Farm
Retford Road
The Bungalow
High View
Christons
Westholme
Priory Farm
Horsegate Road (Track)
Shed Farm
Cowsland Road
Willow Cottages
Grove Road
Lee Beck
Grove Moor Farm
Woodhouse Farm
Wood House
Treswell Wood
Woodhouse Farm
Springfield
Treswell
Rectory Road
Lee Beck
Stanhope Farm
Amer Lane
Northfield Farm
Woodbeck Cottage
Bottom Woodbeck Farm
Retford Road
Mill House
Headon Park
Schoolhouse Plantation
Headon Wood
Mill Hill Farm
Mill Hill
Mill Mound
Hazelwood Lane
Headon Camp Industrial Estate
Headon Manor Farm
Nether Headon
Shortwood
Thorpe Street
Headon
Upton
Bridle Lane (Track)
Wood Lane (Track)
Upton Road
Askham Field
Hawksley Farm
Ash Holt Lane (Track)
Prospect Farm
Beast Wood
Field Farm
Retford Road
East Drayton
Dolegate Hill
North Bridge
Manor Field Farm
The Limes
Laneham Field Farm
Woodbeck
Rampton Hospital
Sewage Works
Wranglands Lane
Otters Farm
Beardsall Farm
Stokeham
Hardings Farm
North Beck
Meadow Dike Lane (Track)
Meeting House Lane
Bacon Farm
Onslow House
Treswell Road
Millfield Road
Wood Lane
Rampton Lane
Westbrecks Crossing
Westbrecks Lane
Westbrecks Farm
Broad Lane
Overcoat Lane
Cottam Road
Cottam Power Station
Rampton Thorns
Haig Plantation
Humber Meadow Lane (Track)
Rampton Road
Turn-a-beck
Sundown Adventure Land
Manor House
Brecks Lane
Greenside Farm
East End Farm
Horse Farm
Rampton
Sewage Works
Helenship Lane
Broading Farm
Broading Lane
Holly Folly Farm
Fox Covert Farm
Laneham Fox Covert
Rampton Road
Trentfield Farm
Maltkilns
Holiday Park
Rushmoor Farm
Manor House
Church Laneham
Laneham
Mill House
Trent Valley Way
Hoo Lane (Track)
Chequers Lane
Fleet Bridges
Fleet Plantation
Meat
Floss

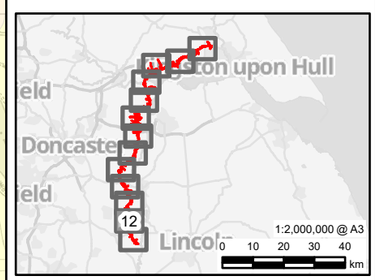
Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Superficial Geology
- Alluvium - clay, silt, sand and gravel
- Glaciofluvial Deposits, Mid Pleistocene - Sand and gravel
- Head - clay, silt, sand and gravel
- Till, mid pleistocene - diamicton



0 0.5 1 1.5 2 Km

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Rev	Date	Description	GIS	Chk	App
0	29/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

nationalgrid

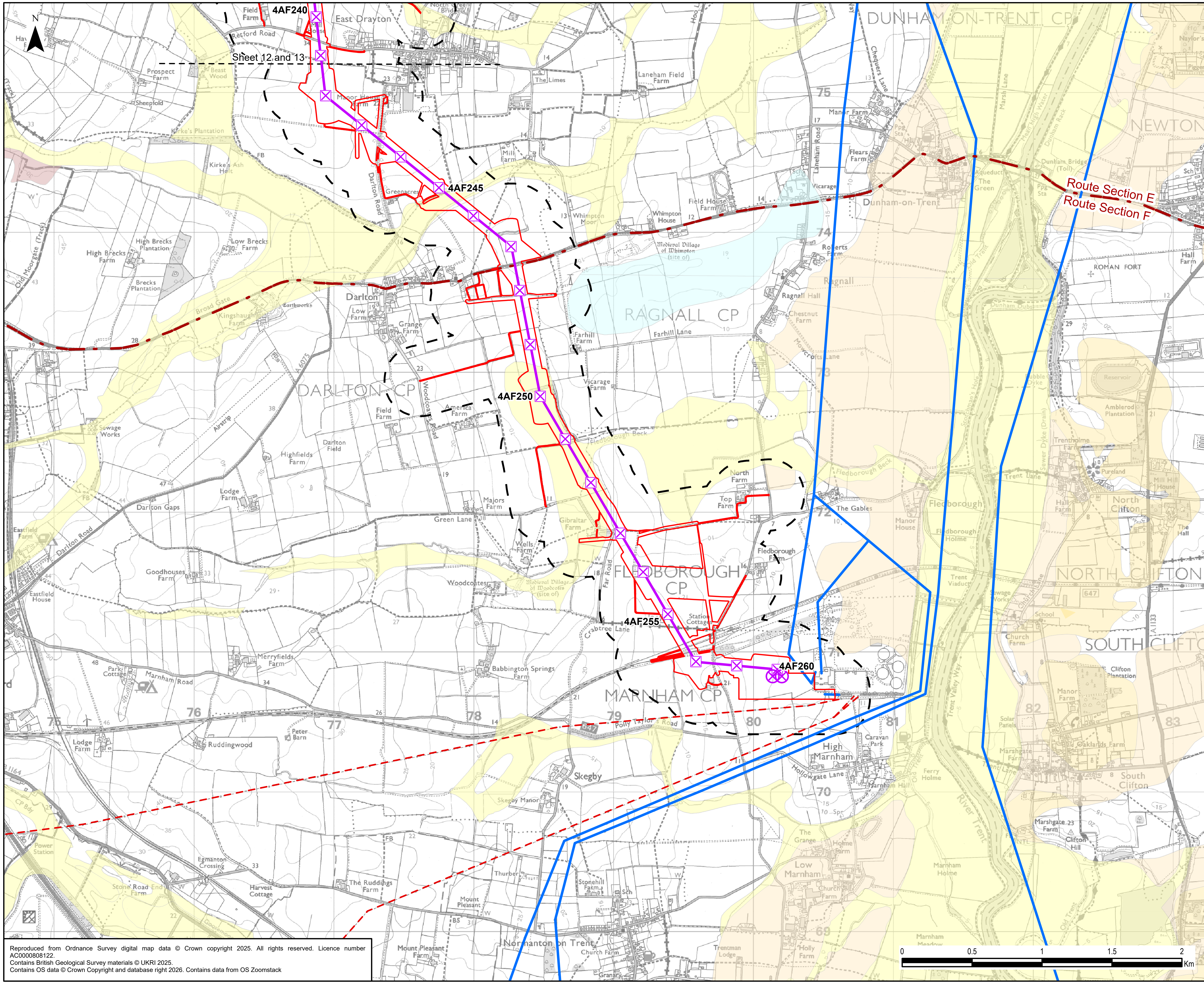
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.1 - SUPERFICIAL GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
JH	29/09/2026	JG	29/09/2026	NC	29/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
12.1	1:25,000	A3	12 OF 13	0

Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH12_GeologyAndHydrology\NHHM_ES_Ch12_Geology_20260805.aprx



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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH12_GeologyAndHydrology\NHHM_ES_Ch12_Geology_20260805.aprx

Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

- 275 kV
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry

Superficial Geology

- Alluvium - clay, silt, sand and gravel
- Blown sand - sand
- Holme Pierrepont sand and gravel member - sand and gravel
- Till, mid pleistocene - diamicton

Rev	Date	Description	GIS	Chk	App
0	29/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.1 - SUPERFICIAL GEOLOGY

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Figure Ref:	Scale:	Format:	Sheets:	Rev:
12.1	1:25,000	A3	13 OF 13	0