The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-ONS-REP-0083

North Humber to High Marnham

Volume 6: Environmental Statement

Document 6.12.F2 Environmental Statement Figure 12.2 - Bedrock Geology

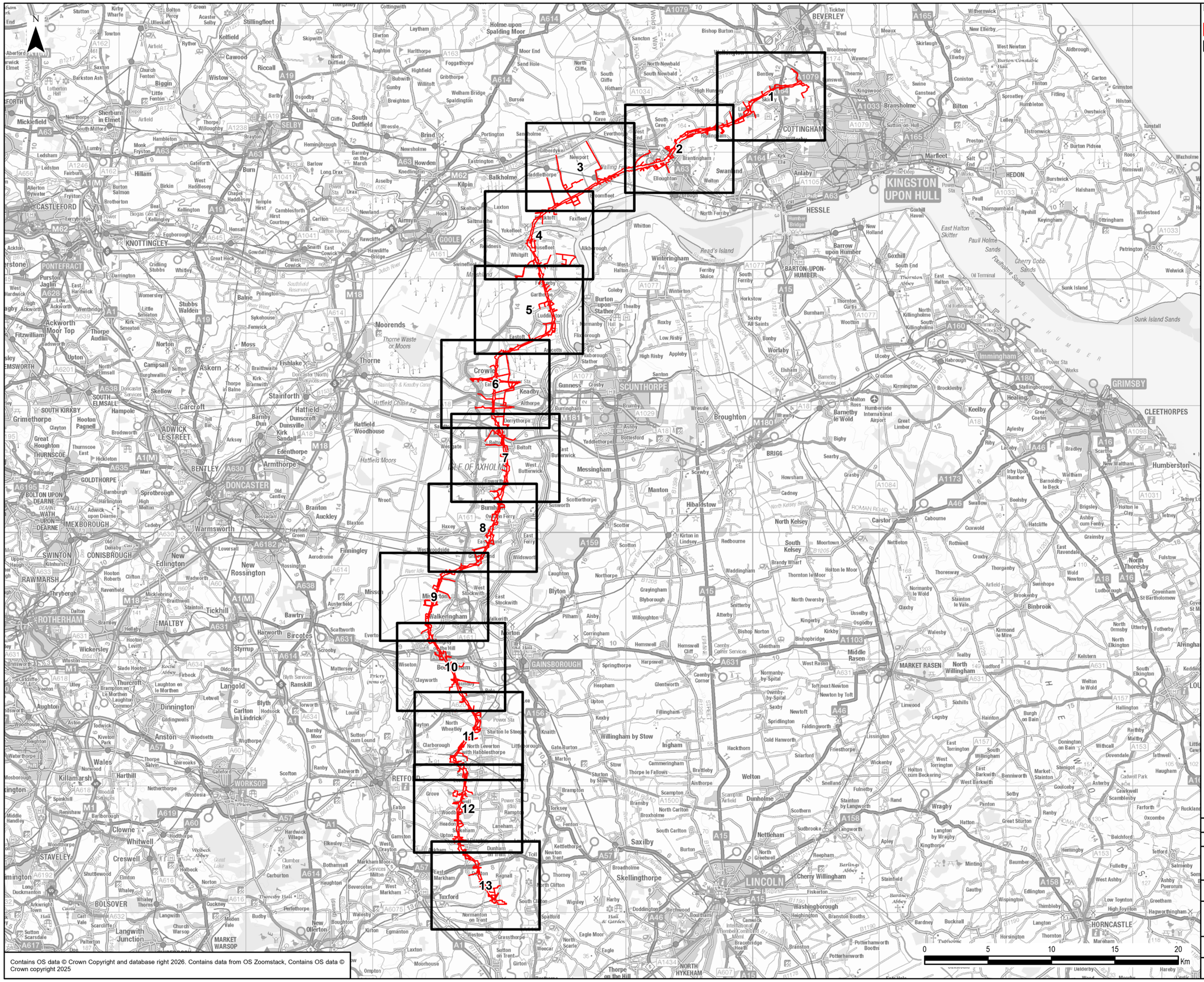
Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

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

nationalgrid



Legend

- Order Limits
- Map Sheet

Rev	Date	Description	GIS	Chk	App
0	03/08/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY KEY PLAN

Creator:	Date:	Checker:	Date:	Approver:	Date:
JH	03/08/2026	JG	03/08/2026	NC	03/08/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Sheet 1 and 2

0 0.5 1 1.5 2 Km

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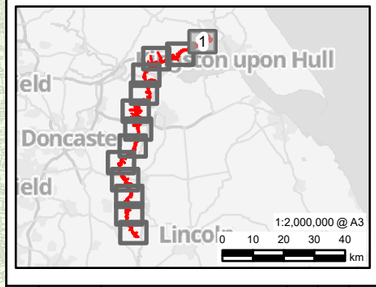
Legend

Order Limits
250 m Study Area

Existing Overhead Line
- 275 kV
- 400 kV

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

Bedrock Geology
- Burnham chalk formation - chalk
- Flamborough Chalk Formation - Chalk



Rev	Date	Description	GIS	Chk	App
0	30/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
JH	30/09/2026	JG	30/09/2026	NC	30/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Sheet 2 and 3

Sheet 1 and 2

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Legend

Order Limits

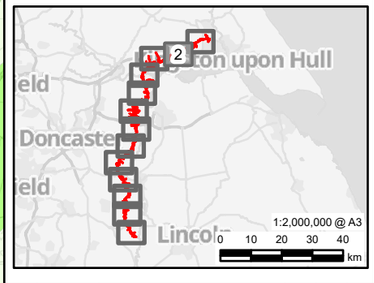
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Project Design Details

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

Bedrock Geology

- Ancholme group - mudstone
- Brantingham member - sandstone
- Charmouth mudstone formation - mudstone
- Ferriby chalk formation - chalk
- Frodingham ironstone member - ironstone
- Hunstanton formation - chalk
- Kellaways formation and Brantingham member - sandstone and siltstone, interbedded
- Kirton cementstone beds - mudstone and limestone, interbedded
- Lower Lincolnshire limestone member - limestone
- Marlstone rock formation - ferruginous limestone and ferruginous sandstone
- Mercia mudstone group - mudstone
- Whitby mudstone formation - mudstone
- Pecten ironstone (bed) - ironstone
- Penarth group - mudstone
- Scunthorpe mudstone formation - limestone
- Scunthorpe mudstone formation - mudstone and limestone, interbedded
- Thorncroft sand member - sandstone, siltstone and mudstone
- Upper Lincolnshire limestone member - limestone, ooidal
- Welton chalk formation - chalk
- West Walton formation - mudstone and siltstone



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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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4ZQ60
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4ZQ55
4AF65
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4AF70

Sheet 2 and 3

Sheet 3 and 4

GILBERDYKE CP
NEWPORT CP
BROOMFLEET CP
BLACKTOFT CP

Newport
Gilberdyke
Staddlethorpe
Bennetland
Sandholme
Cheapsides
Broomfleet
Walling Fen
Cave Common
North Cave
Nettle Hill
Warwicks
Bellasize
North Field

0 0.5 1 1.5 2 Km

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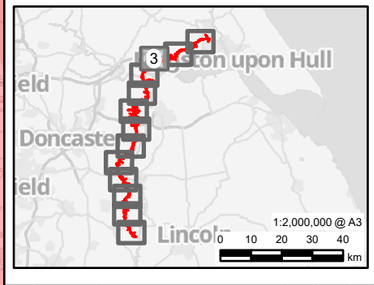
Order Limits
250 m Study Area

Project Design Details

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

Bedrock Geology

Mercia mudstone group - mudstone
Scunthorpe mudstone formation - limestone



Rev	Date	Description	GIS	Chk	App
0	30/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

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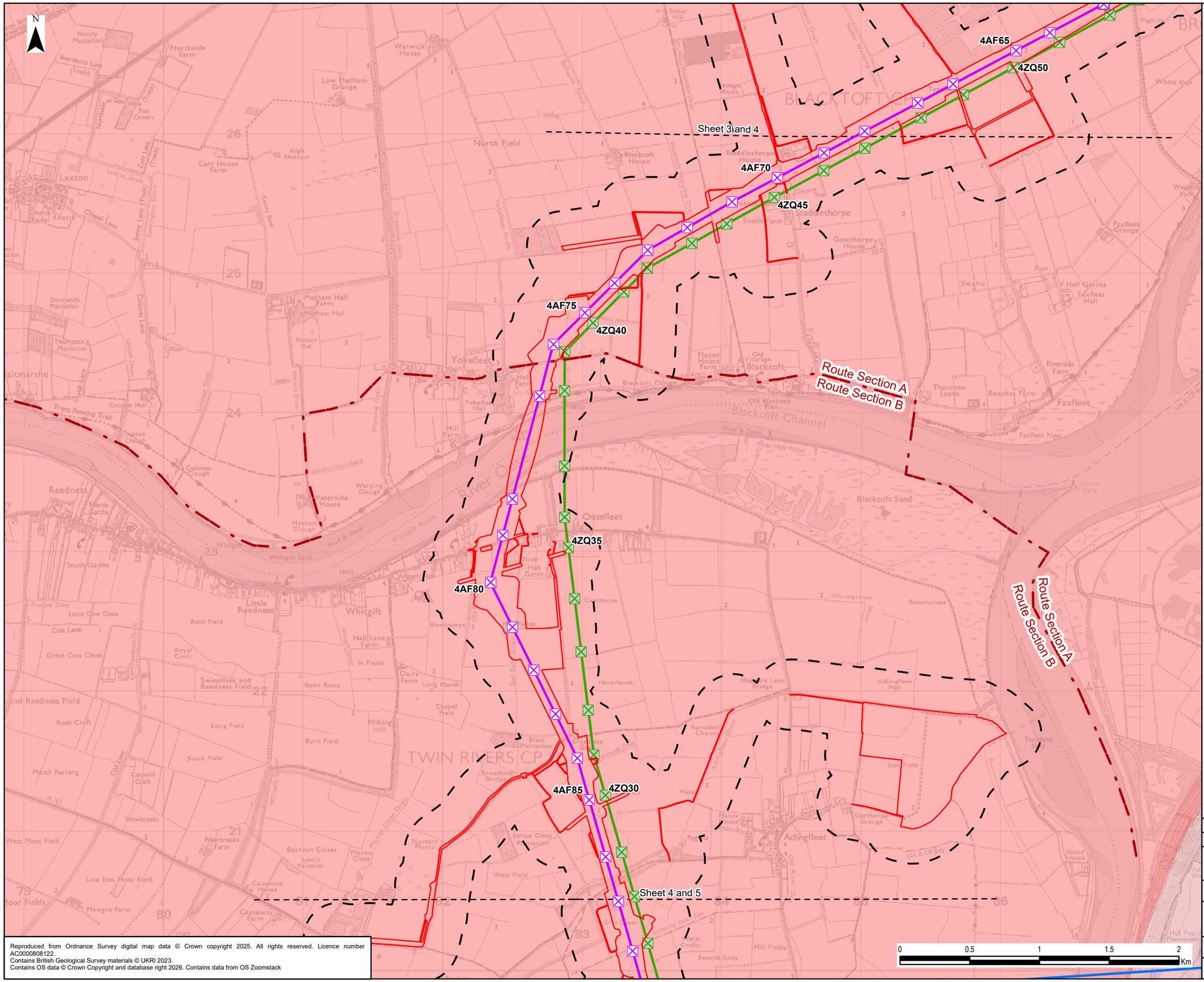
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

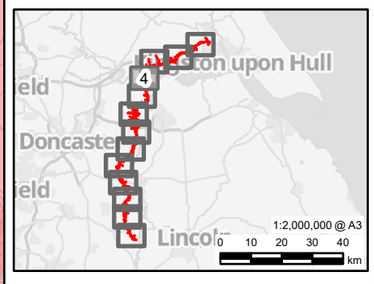
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Project Design Details

- Existing Lattice Pylon Not Affected
- Indicative New Lattice Pylon
- Existing Overhead Line Not Affected
- Indicative New Overhead Line

Bedrock Geology

- Mercia mudstone group - mudstone



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

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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Sheet 5 and 6

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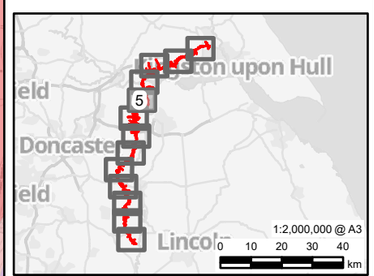
Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line
- 400 kV

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

Bedrock Geology
- Mercia mudstone group - mudstone
- Scunthorpe mudstone formation - limestone



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

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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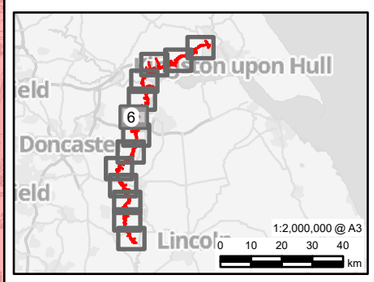
Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

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

Bedrock Geology
- Mercia mudstone group - mudstone
- Mercia mudstone group - siltstone, dolomitic



Rev	Date	Description	GIS	Chk	App
0	30/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

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Scheme: NORTH HUMBER TO HIGH MARNHAM

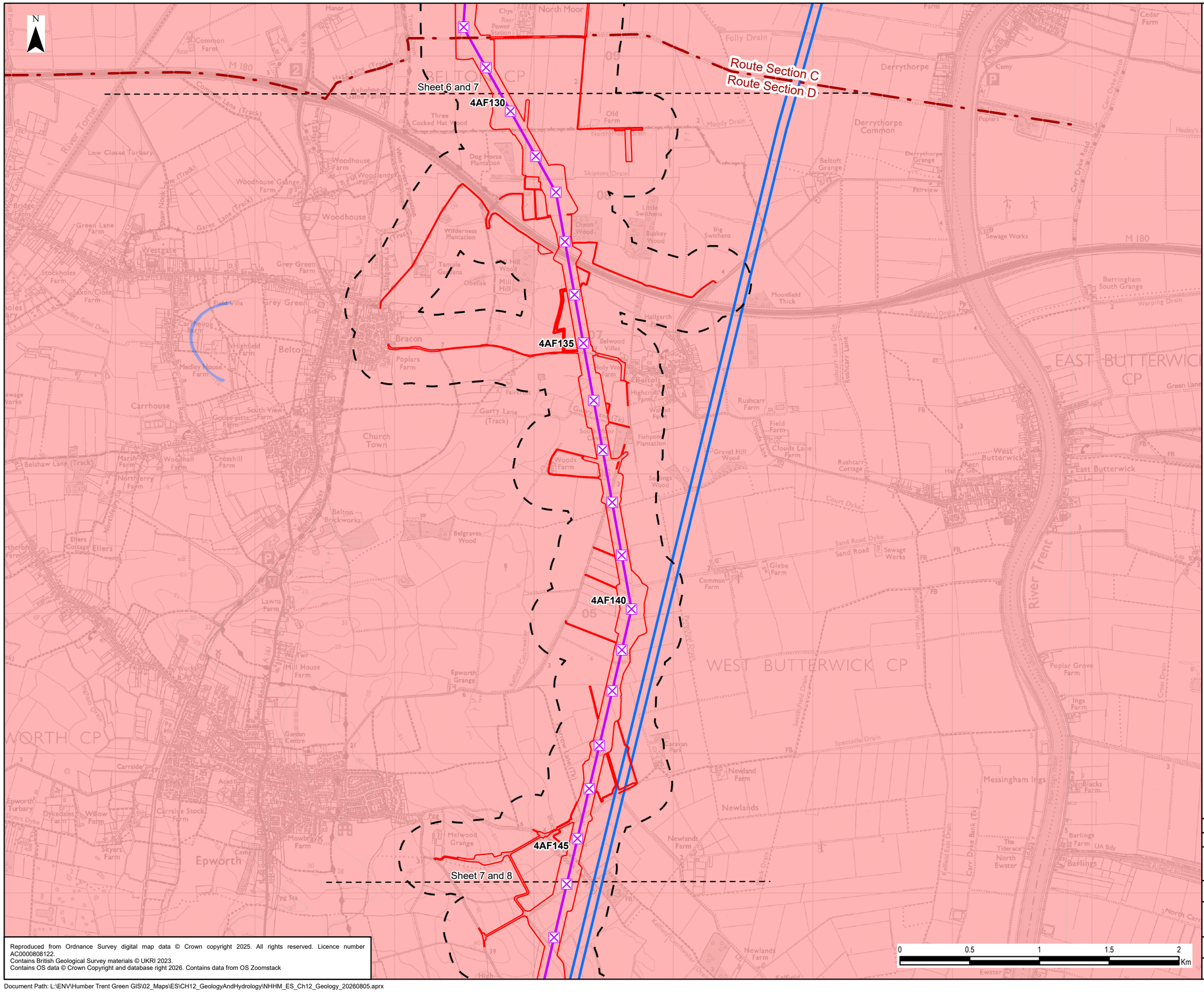
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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

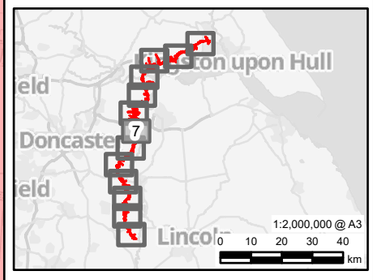
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Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology

- Mercia mudstone group - mudstone
- Mercia mudstone group - siltstone, dolomitic



Rev	Date	Description	GIS	Chk	App
0	30/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

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Scheme: NORTH HUMBER TO HIGH MARNHAM

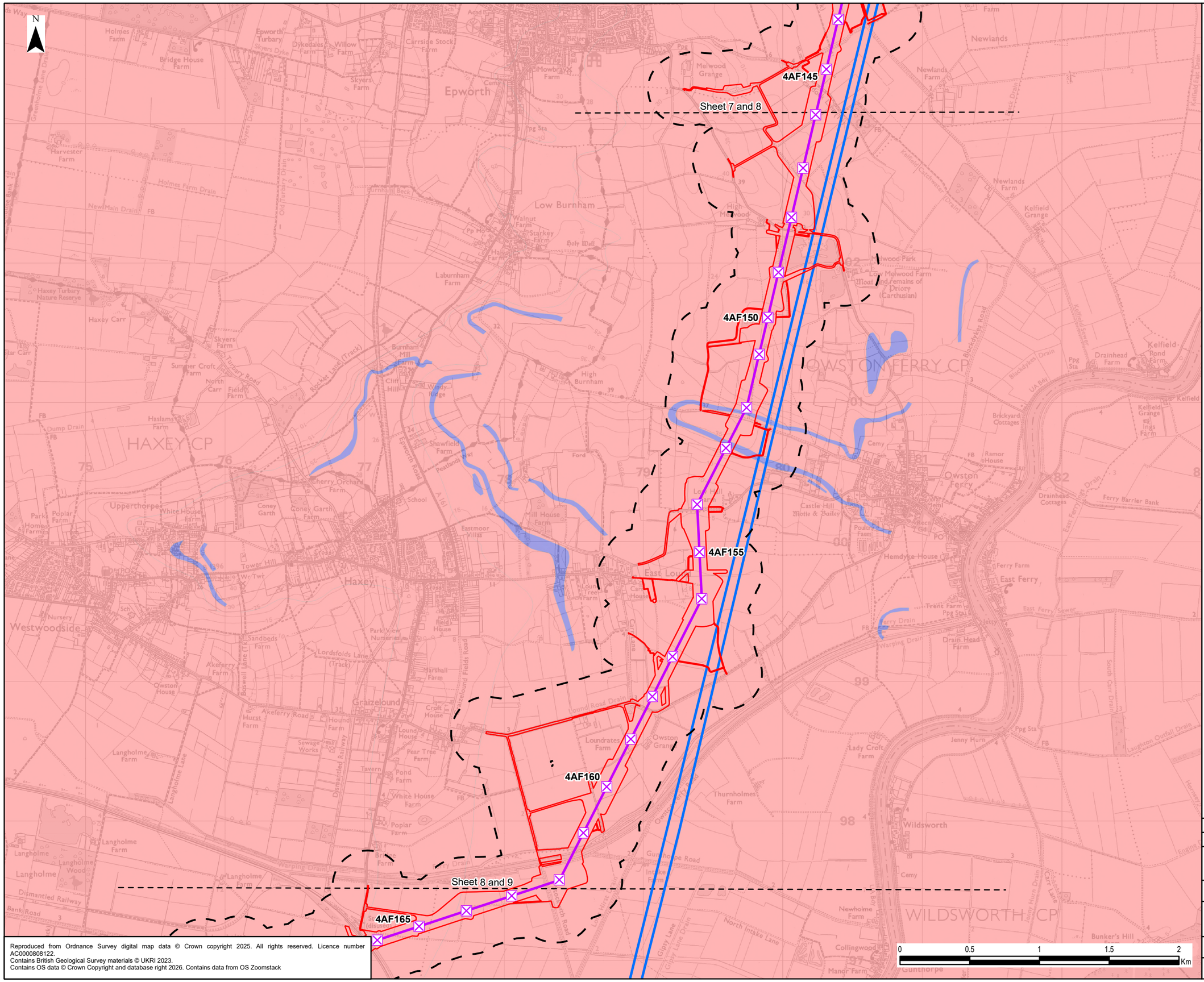
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Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

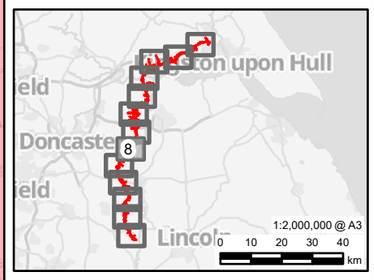
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Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology

- Mercia mudstone group - mudstone
- Mercia mudstone group - siltstone, dolomitic



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

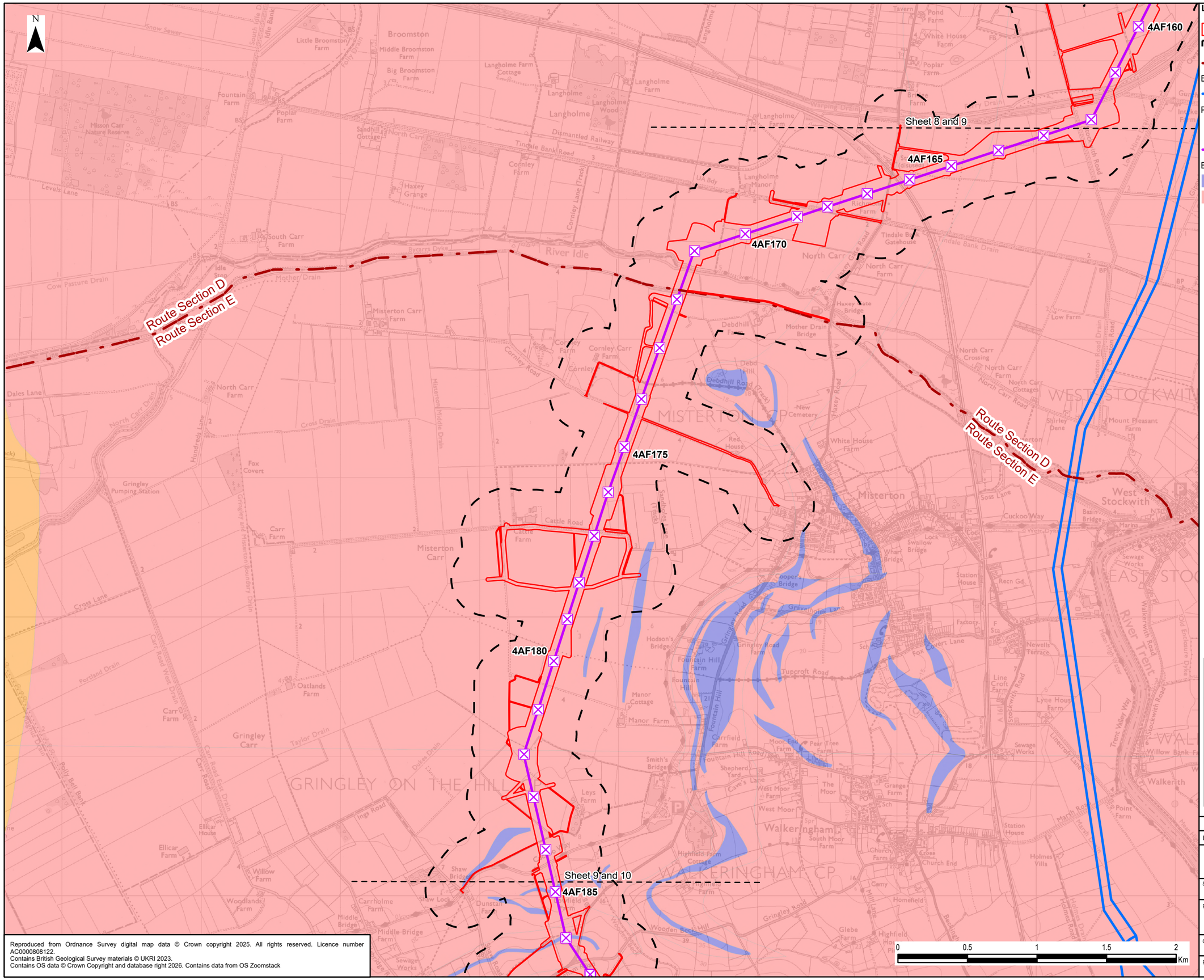
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Legend

- Order Limits
- 250 m Study Area
- Route Section

Existing Overhead Line

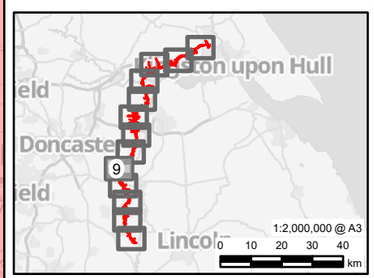
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Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology

- Clarborough member - siltstone, dolomitic
- Mercia mudstone group - mudstone



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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Sheet 9 and 10

4AF185

4AF190

4AF195

4AF200

Sheet 10 and 11

4AF205

0 0.5 1 1.5 2 Km

Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

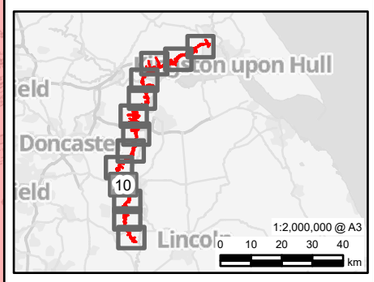
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Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology

- Clarborough member - siltstone, dolomitic
- Mercia mudstone group - mudstone
- Mercia mudstone group - siltstone, dolomitic
- Tarporley siltstone formation - siltstone, mudstone and sandstone



Rev	Date	Description	GIS	Chk	App
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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

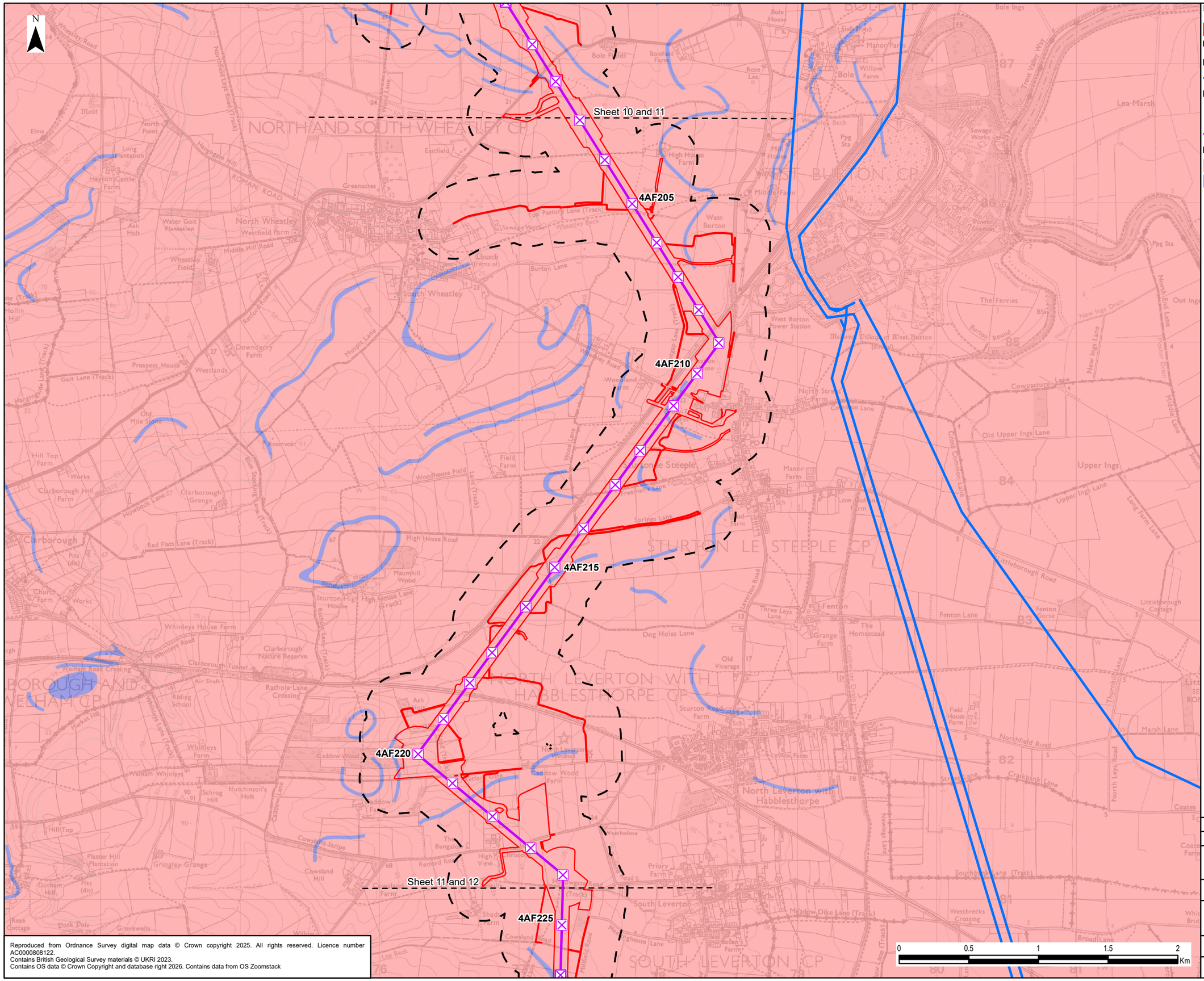
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Legend

- Order Limits
- 250 m Study Area

Existing Overhead Line

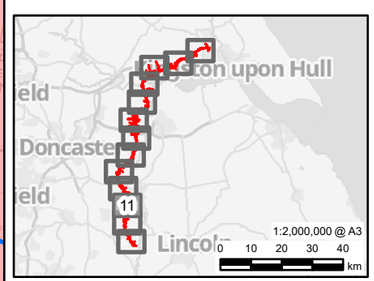
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Project Design Details

- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology

- Mercia mudstone group - mudstone
- Mercia mudstone group - siltstone, dolomitic



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nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

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Sheet 11 and 12

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4AF230

4AF235

4AF240

Sheet 12 and 13

GROVE CP

SOUTH LEVERTON CP

TRESWELL CP

RAMPTON AND WOODBECK CP

HEADON CUM UPTON CP

STOKEHAM CP

EAST DRAYTON CP

LANEHAM CP

DUNHAM-ON-TRE

0 0.5 1 1.5 2 Km

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Legend

Order Limits

250 m Study Area

Existing Overhead Line

400 kV

Project Design Details

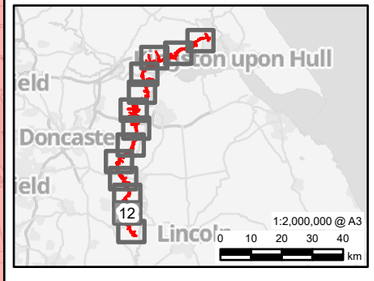
Indicative New Lattice Pylon

Indicative New Overhead Line

Bedrock Geology

Clarborough member - siltstone, dolomitic

Mercia mudstone group - mudstone



Rev	Date	Description	GIS	Chk	App
0	30/09/2026	ENVIRONMENTAL STATEMENT	JH	JG	NC

nationalgrid

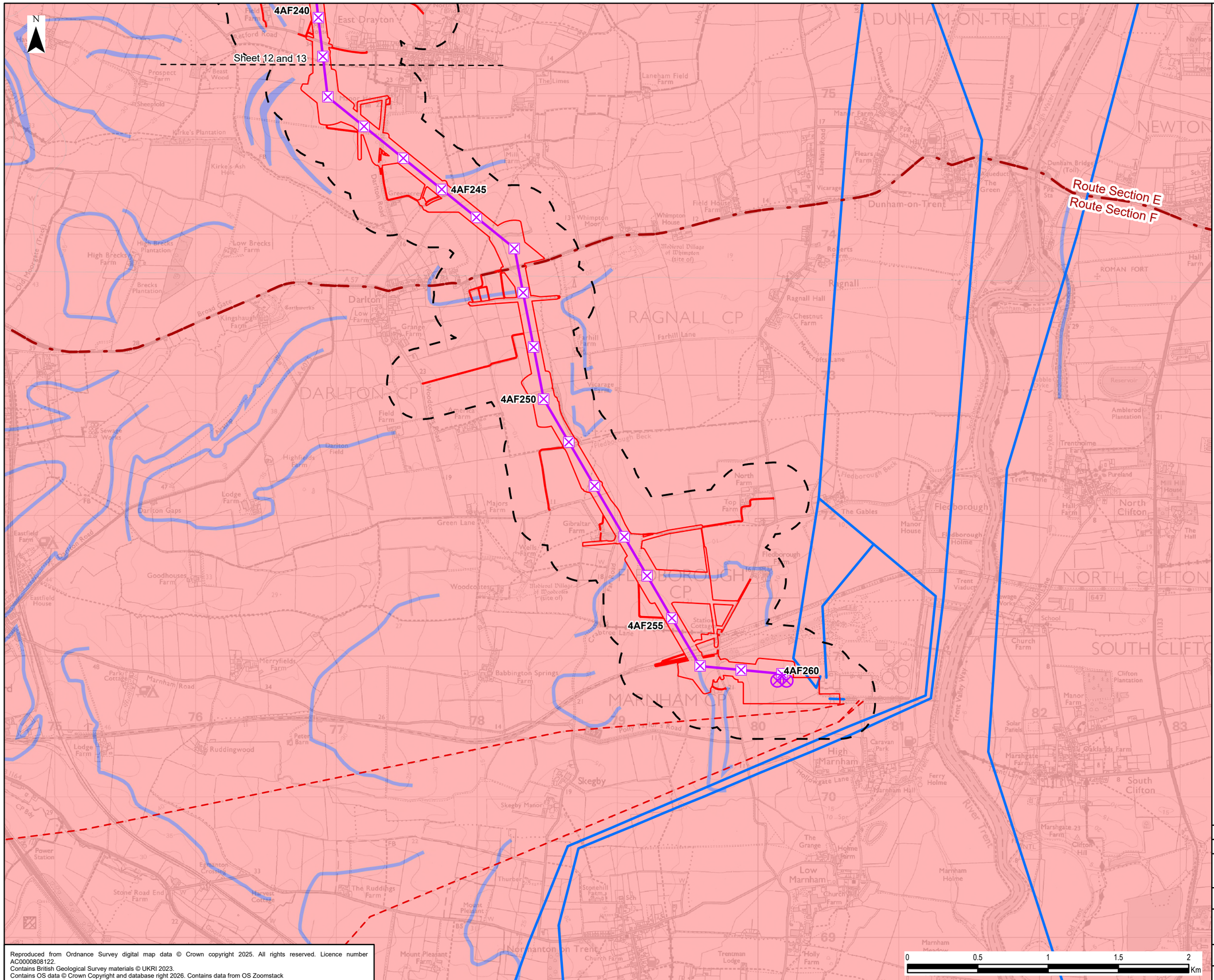
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.2 - BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
JH	30/09/2026	JG	30/09/2026	NC	30/09/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
12.2	1:25,000	A3	12 OF 13	0

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nationalgrid

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12.2	1:25,000	A3	13 OF 13	0

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