

The background image shows two women walking on a dirt path through a field of tall grass and wildflowers. The woman on the left is wearing a plaid shirt, a dark vest, and jeans, and is holding a leash for a black and white dog. The woman on the right is wearing a dark jacket and leggings. In the background, there are several high-voltage power lines and a clear blue sky with scattered white clouds.

The Great Grid Upgrade

Grimsby to Walpole

Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 2 New Grimsby West Substation to New Lincolnshire
Connection Substation A

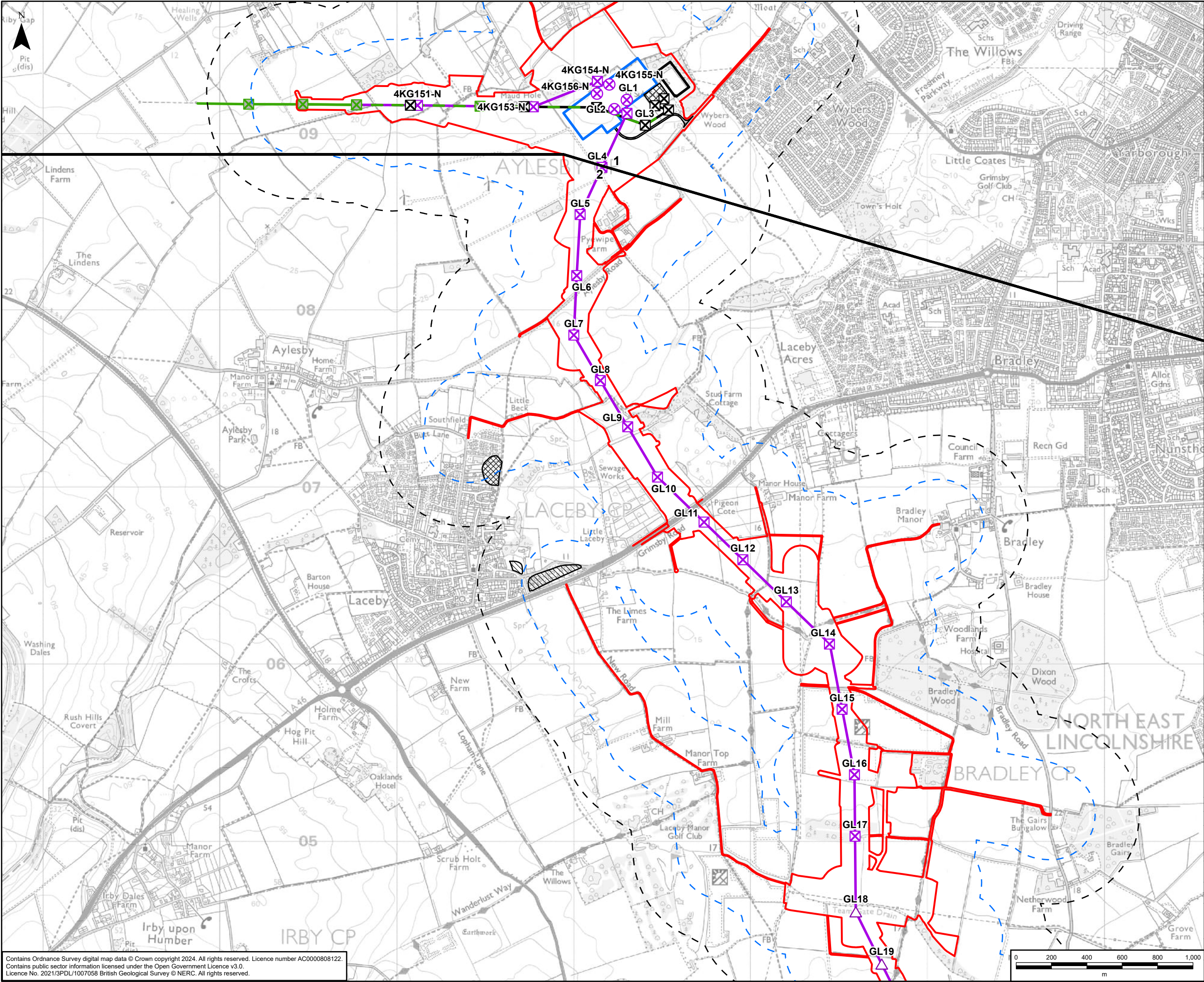
Chapter 7 Geology and Hydrogeology

Figures

June 2025

Volume 2 Part B Section 2 Chapter 7 – Figure List

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Figure 7.2	Superficial Geology
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Figure 7.6	Aquifer Designations: Bedrock Geology
Figure 7.7	Landfills, Waste and Potentially Contaminative Previous Land Uses



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Artificial Geology (BGS 50k)

- Infilled Ground - Artificial Deposit
- Made Ground (Undivided) - Artificial Deposit

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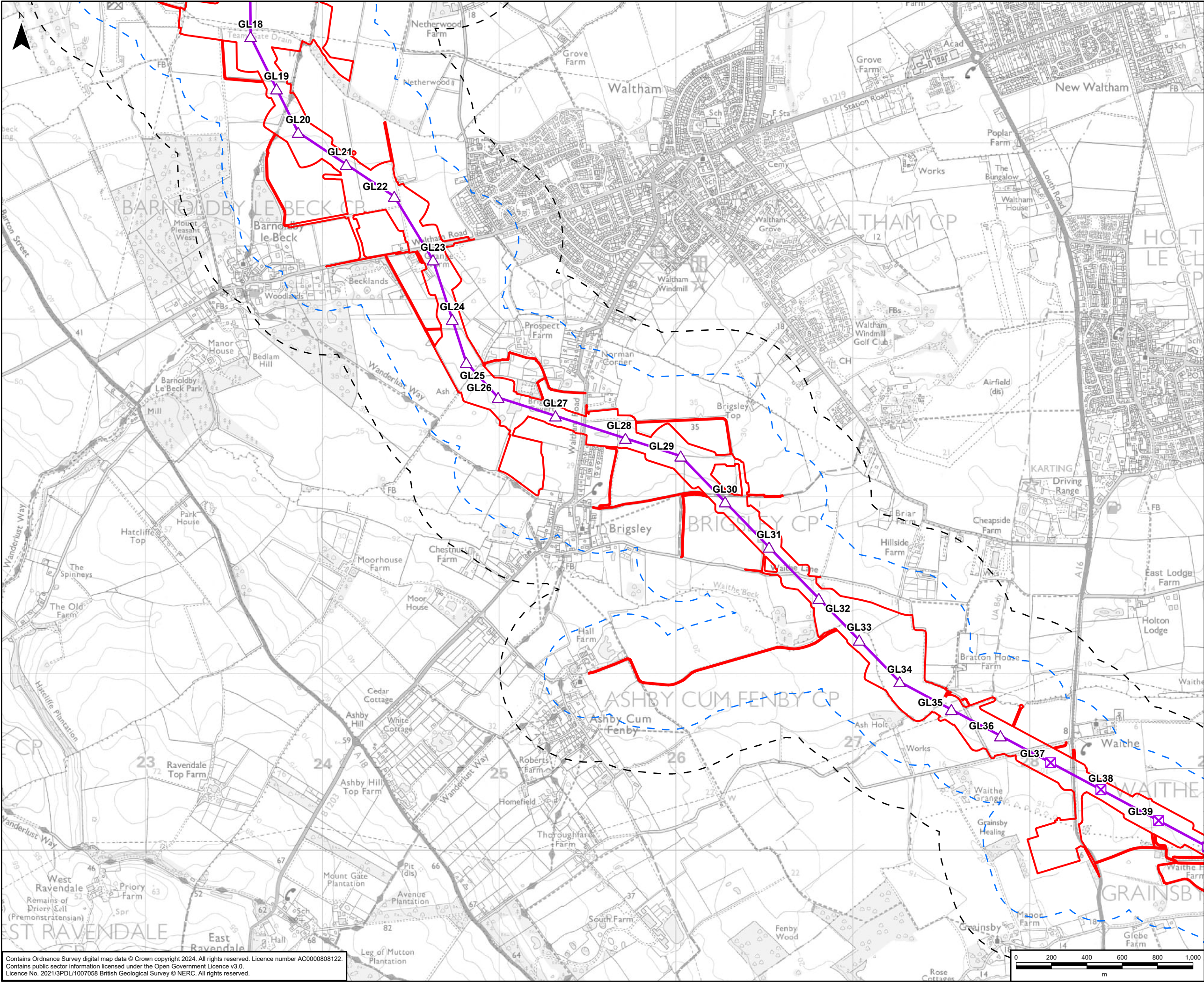
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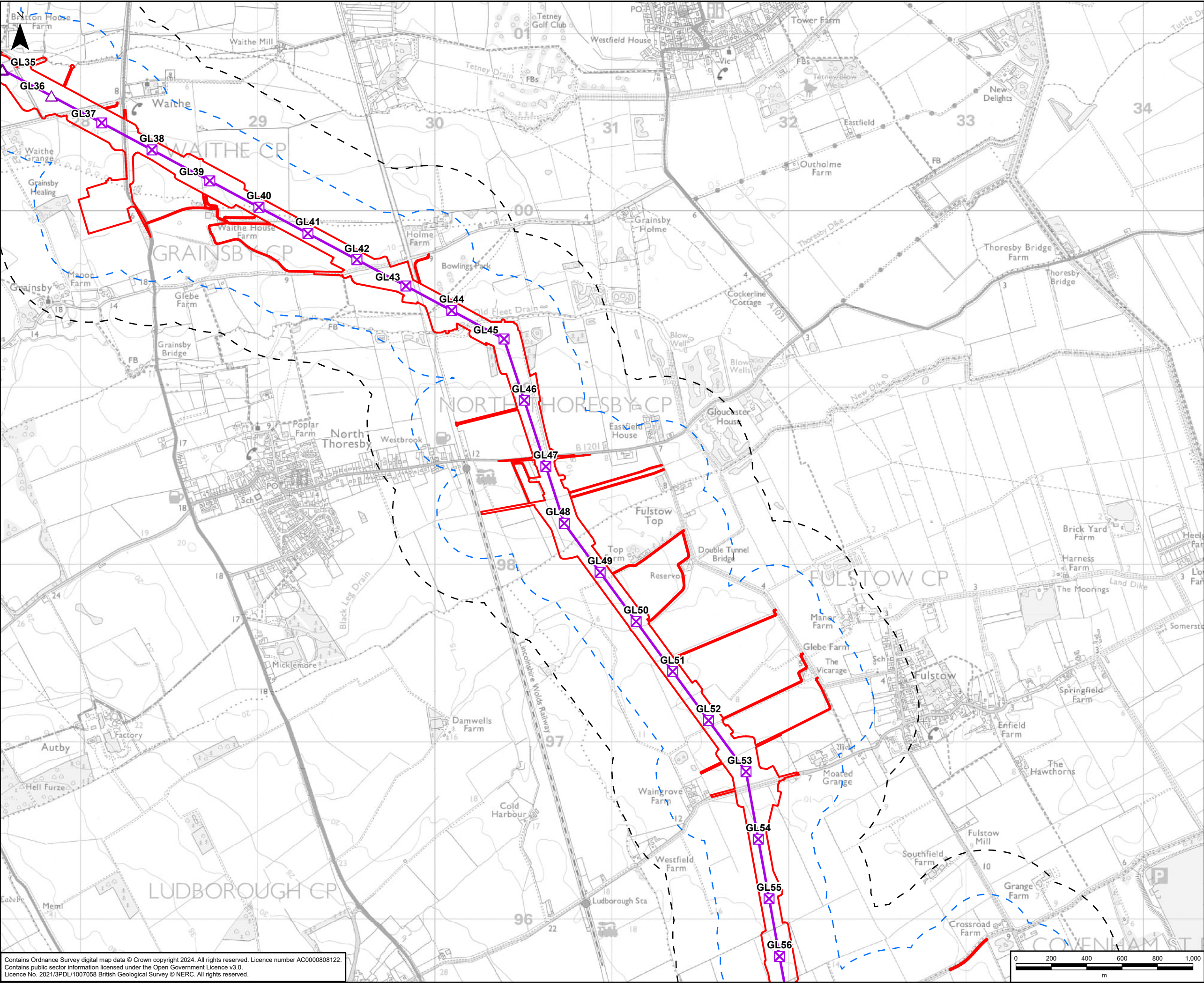
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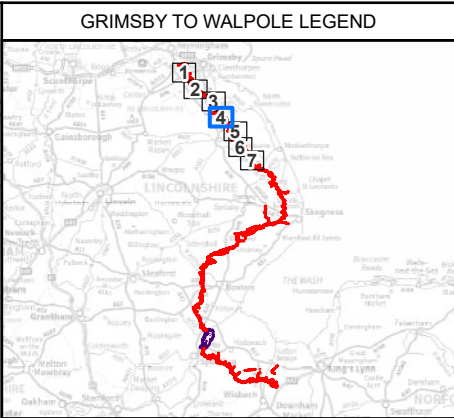
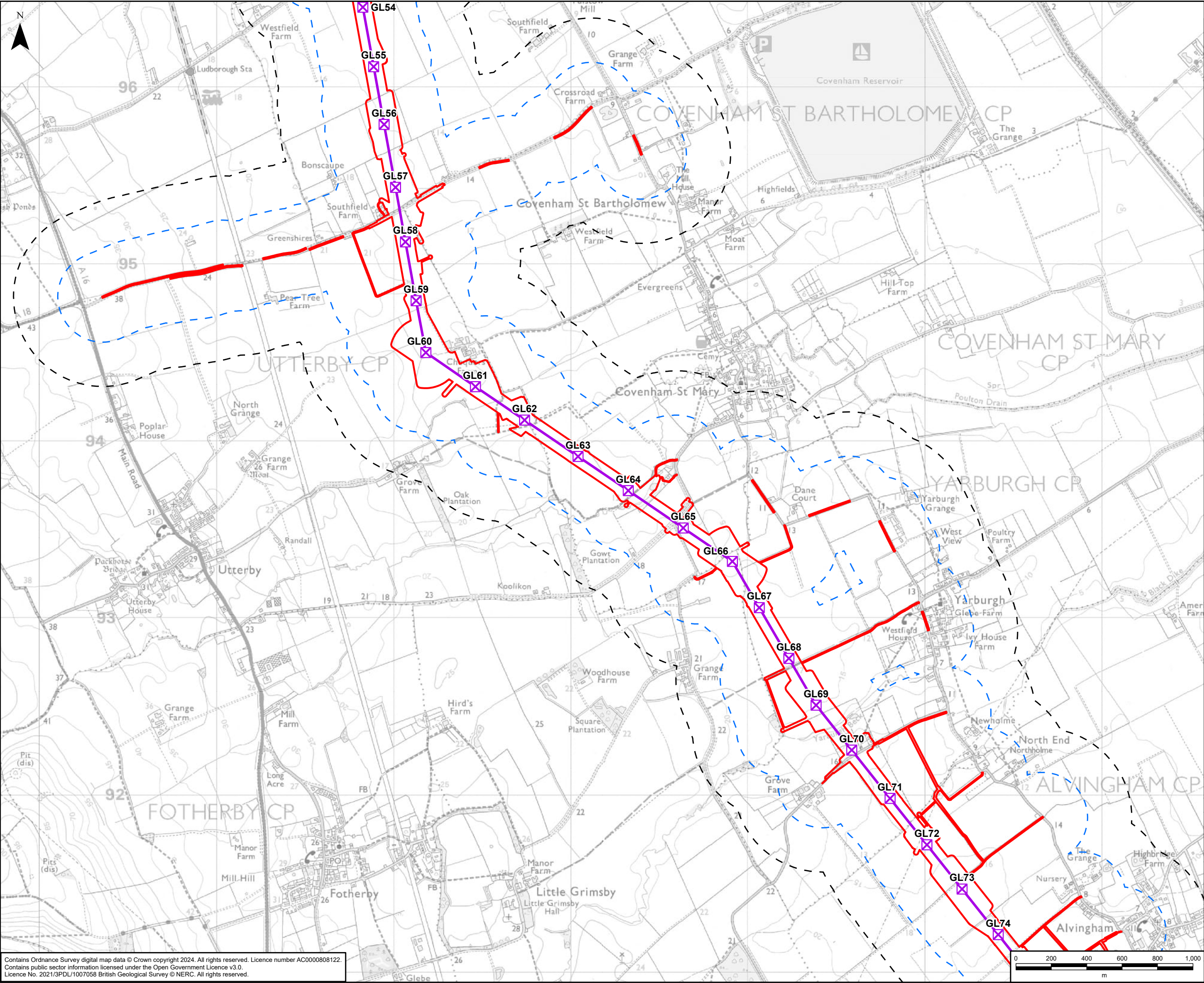
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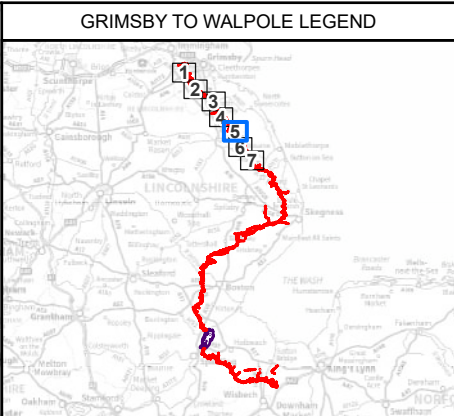
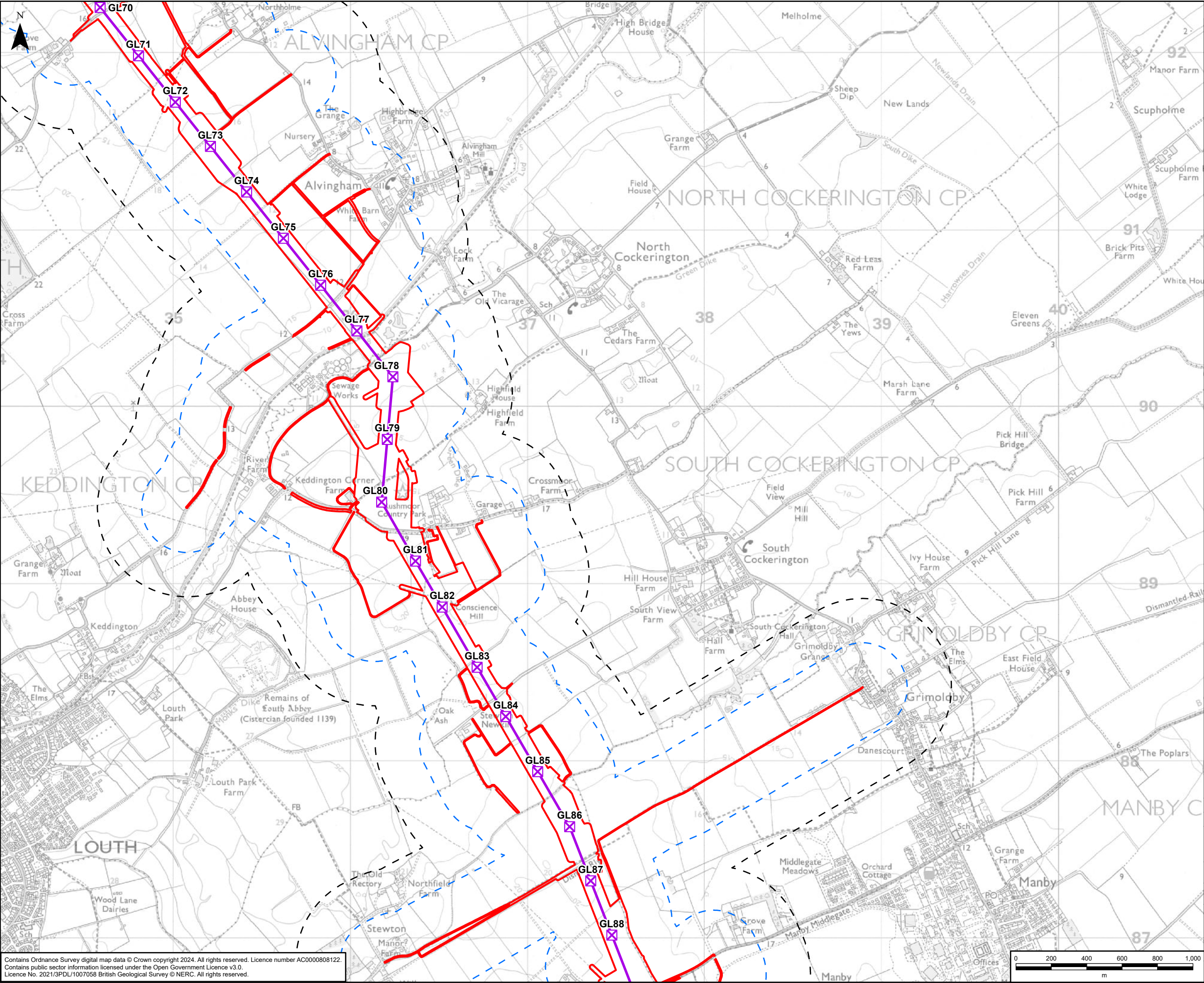
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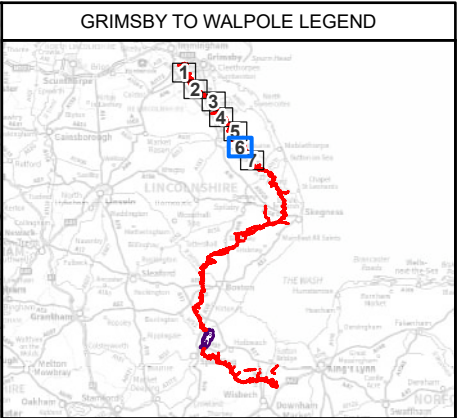
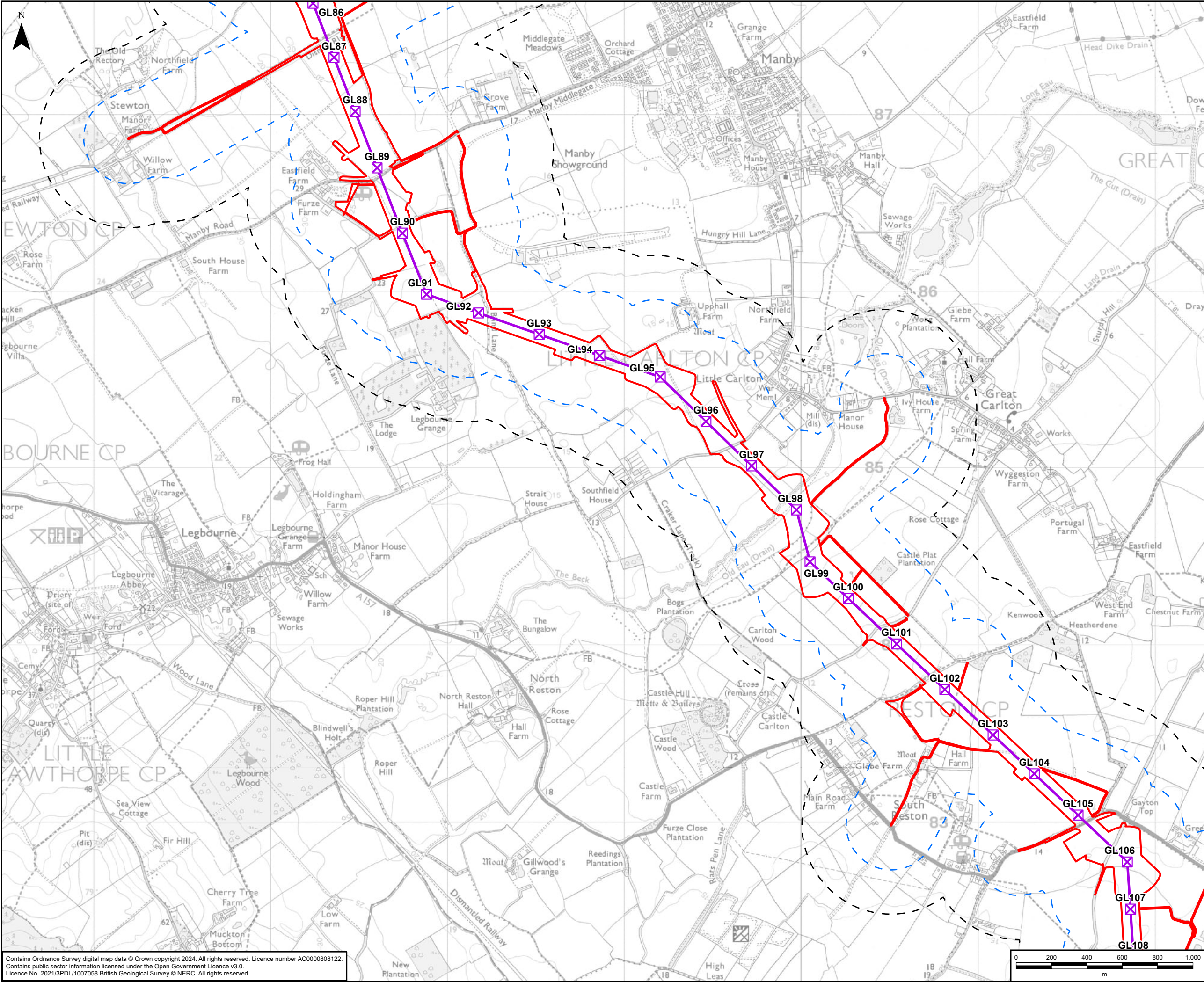


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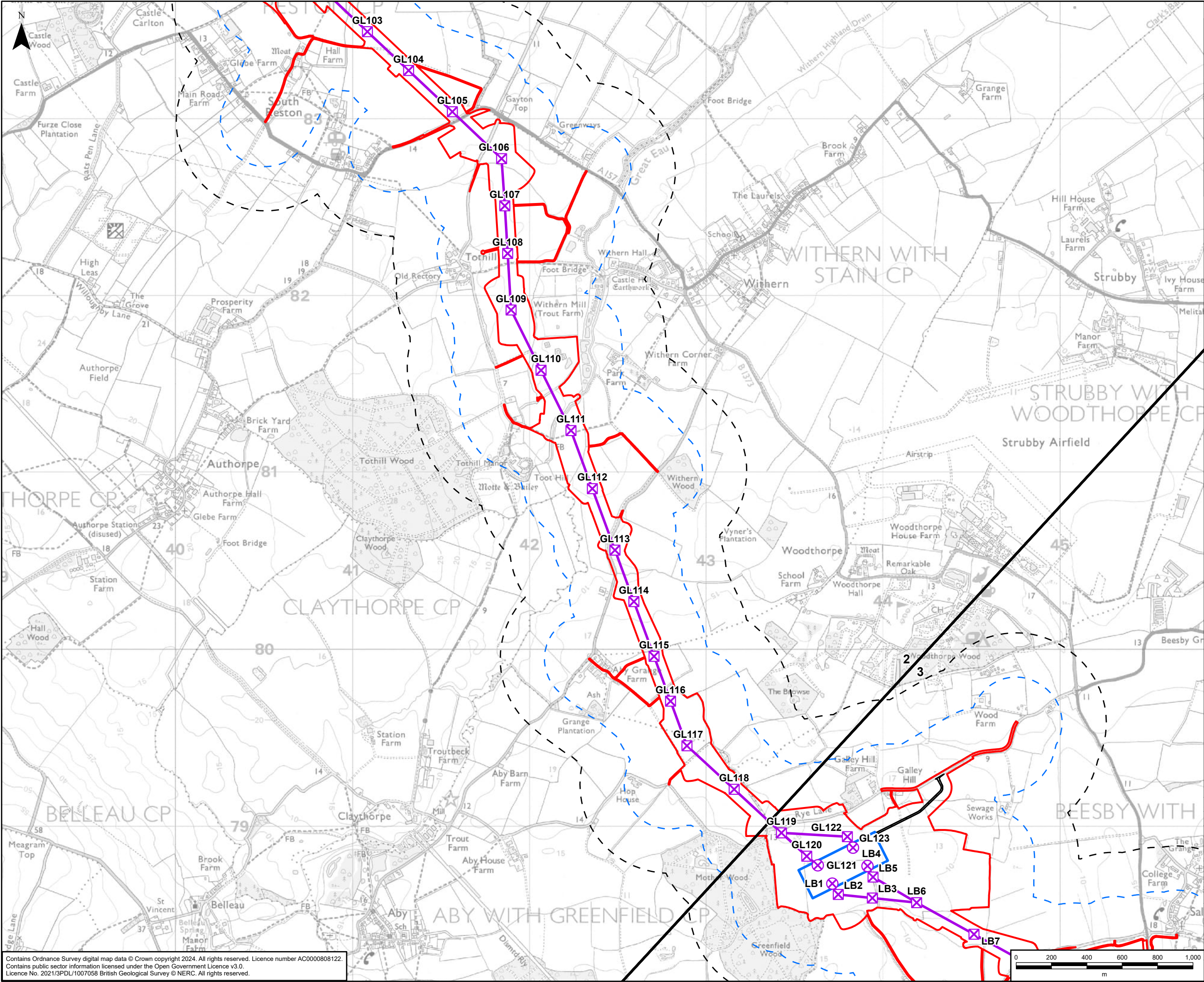
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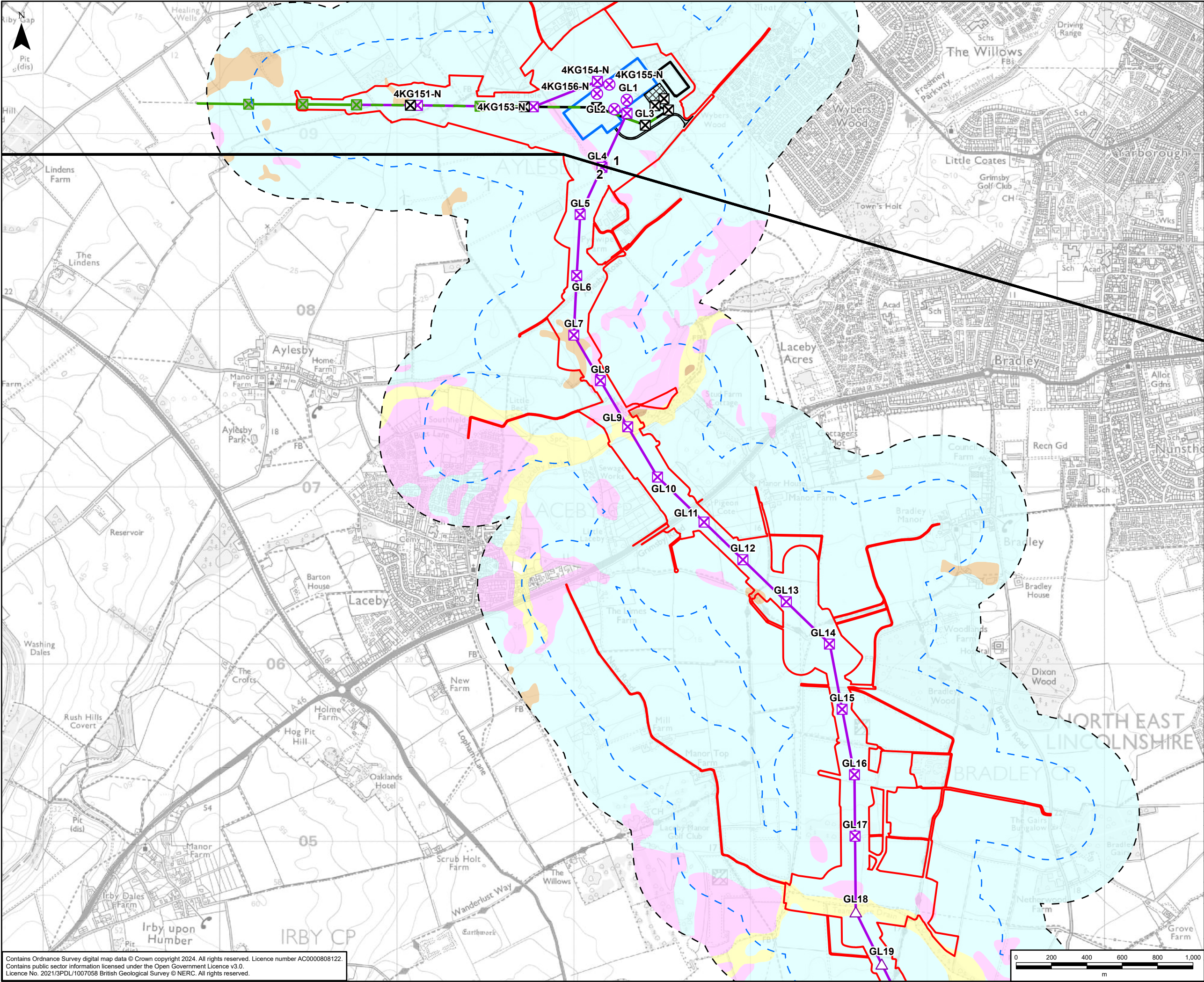
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Superficial Geology (BGS 50k)

- Alluvium - Clay, Silt, Sand and Gravel
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Glaciofluvial Sheet Deposits, Devensian - Sand and Gravel
- Lacustrine Deposits - Sand, Silt and Clay
- Peat
- Till, Devensian - Diamicton

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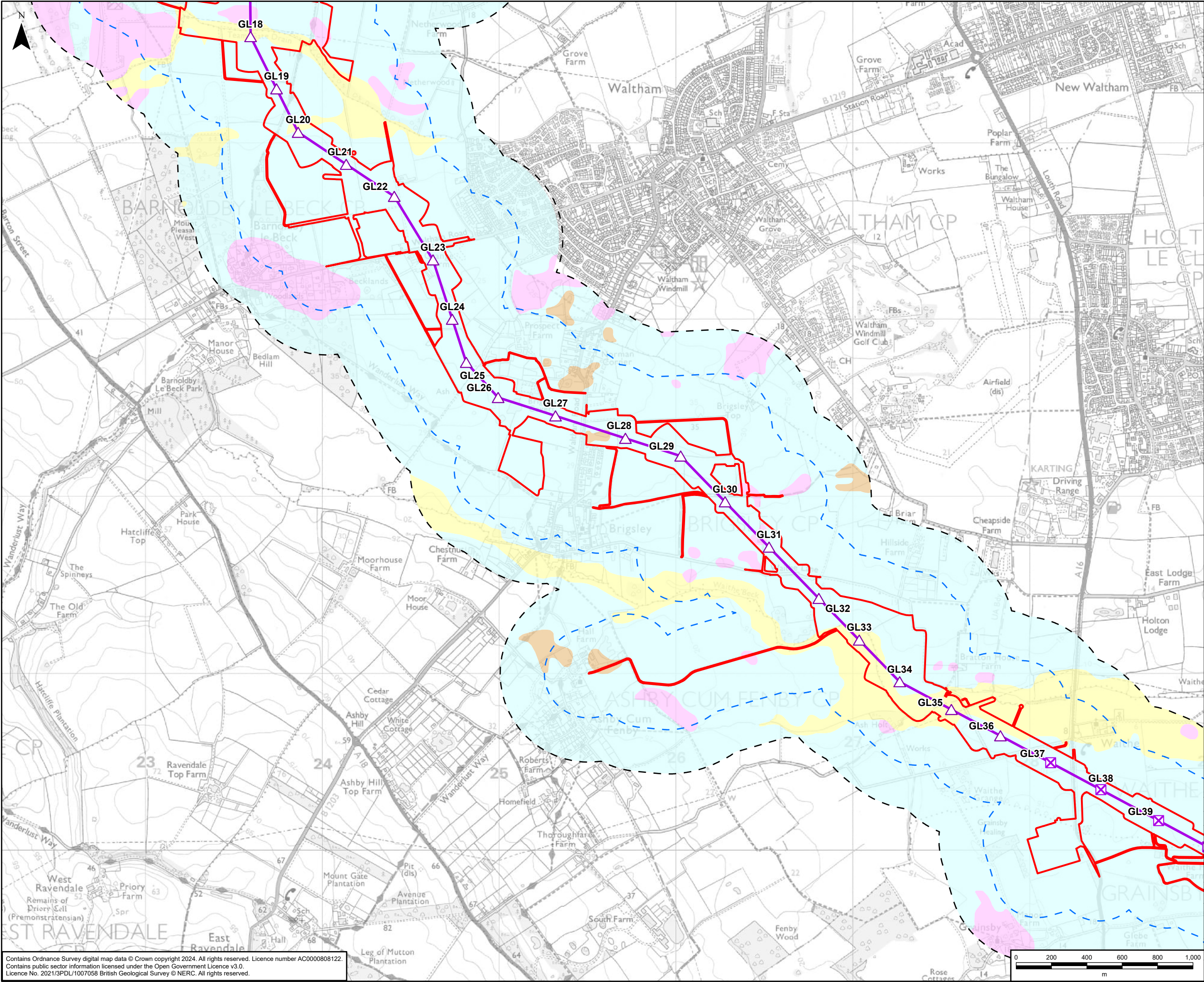
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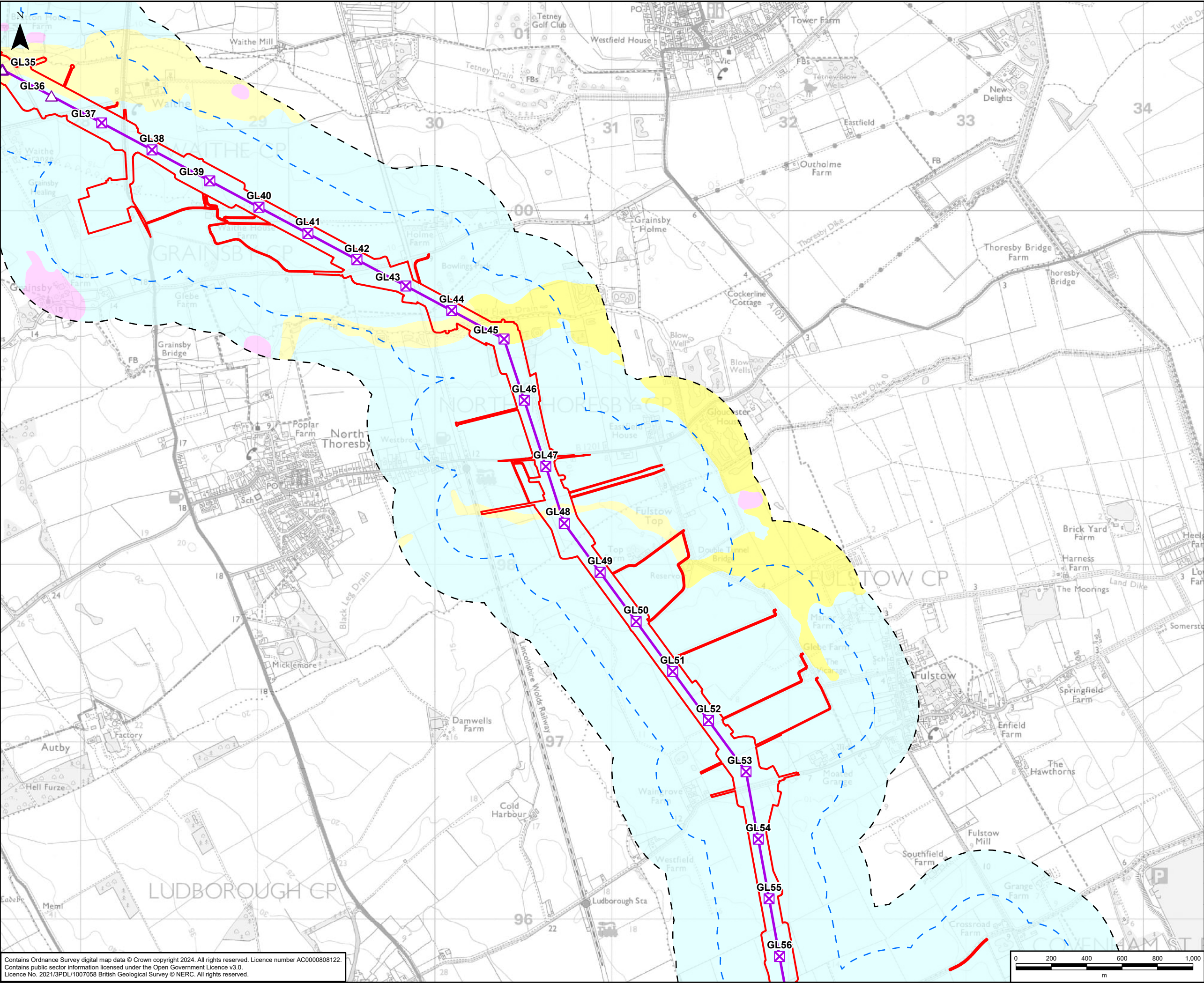
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- Tidal Flat Deposits - Clay and Silt
- Till, Devensian - Diamicton

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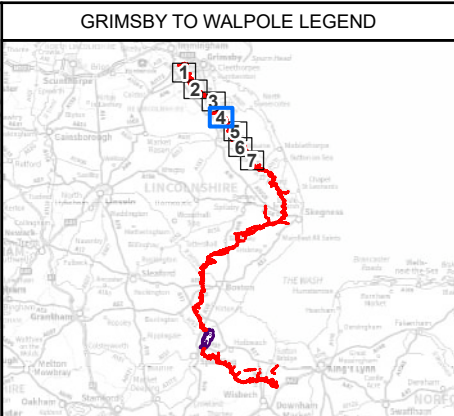
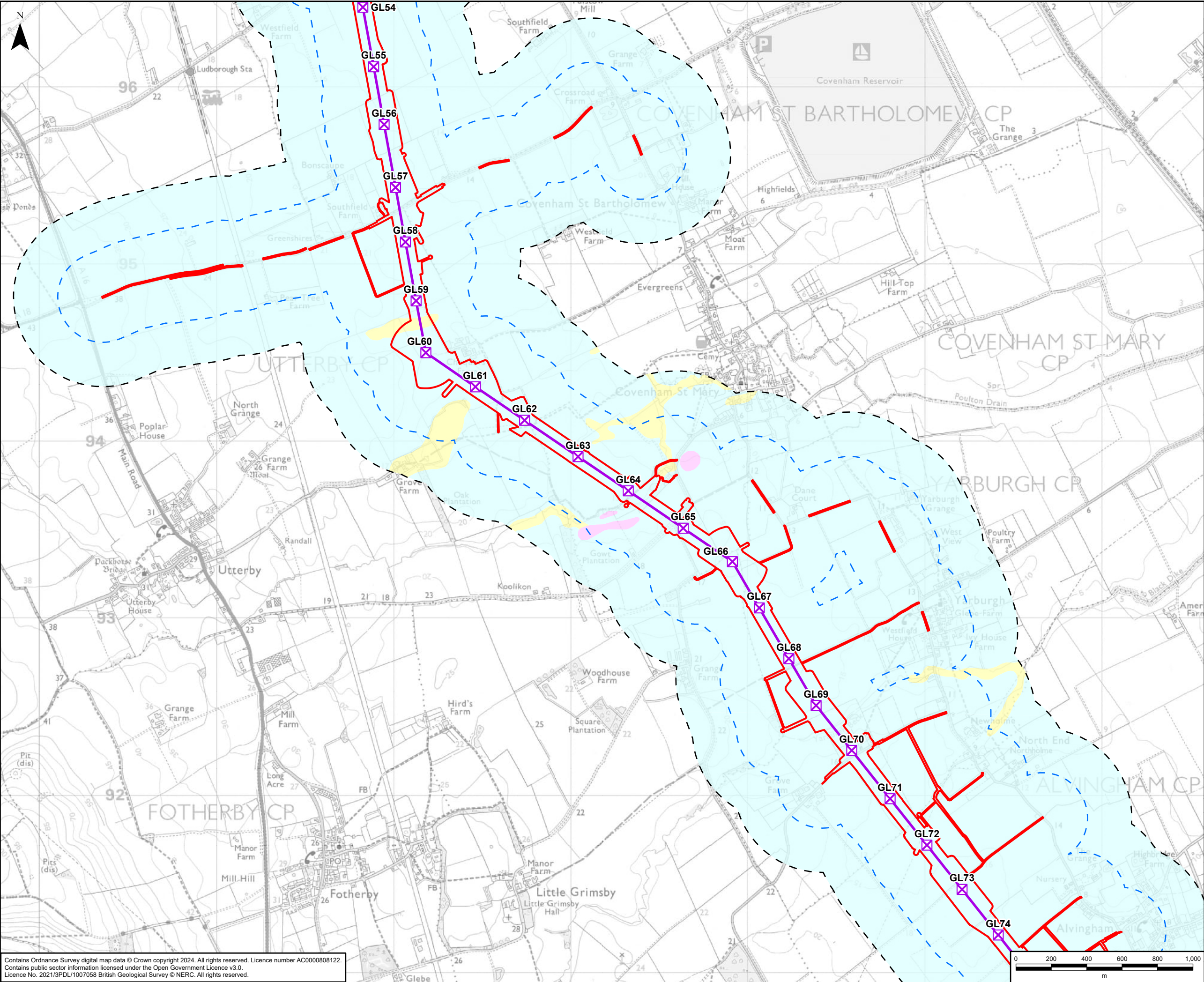
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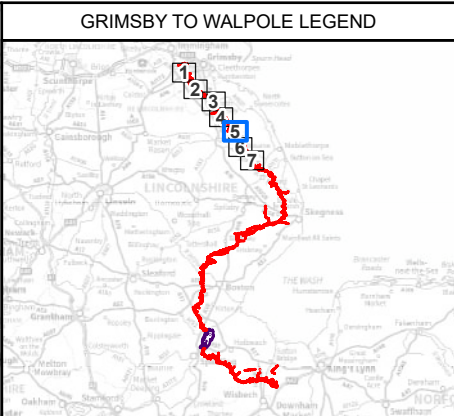
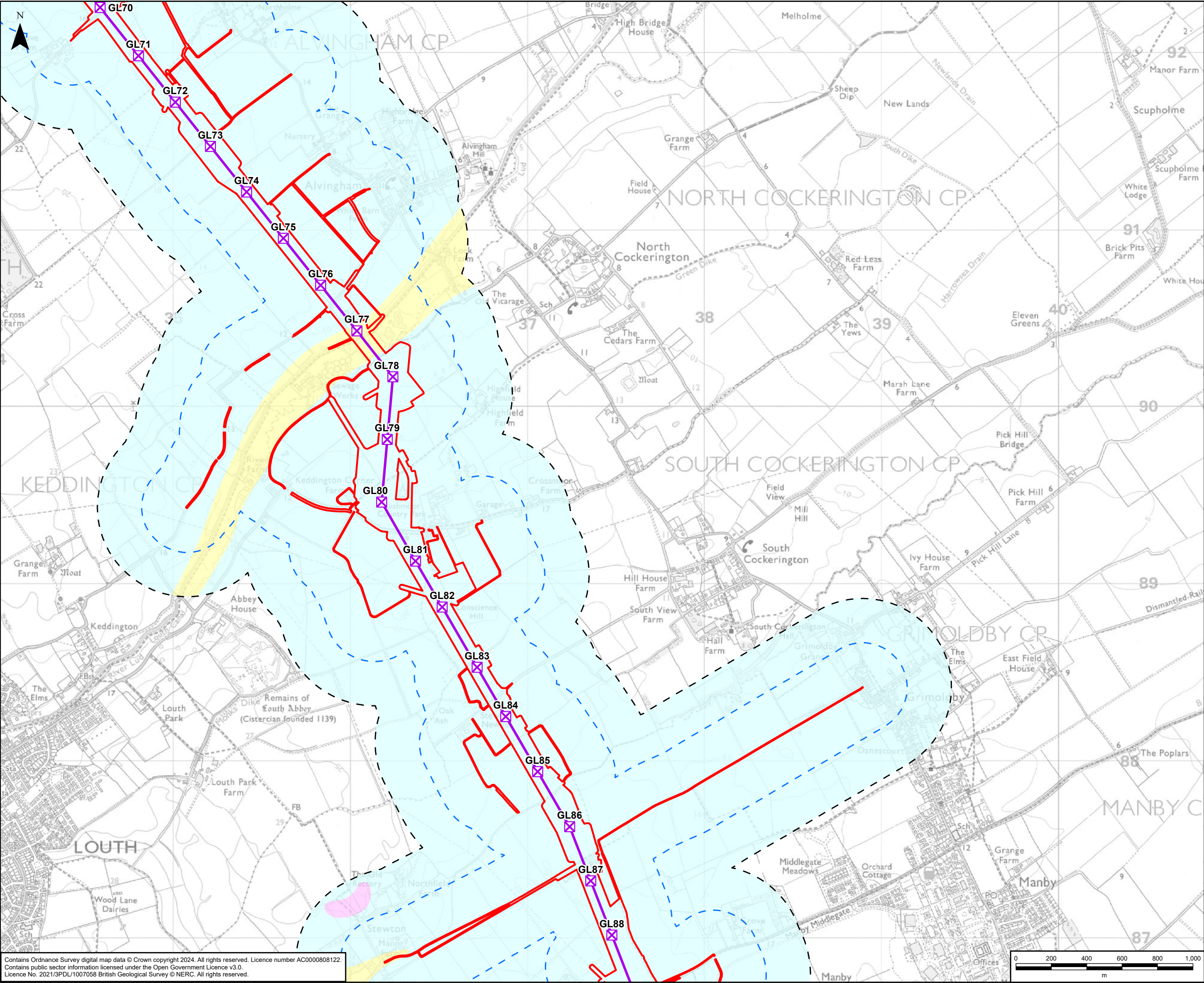
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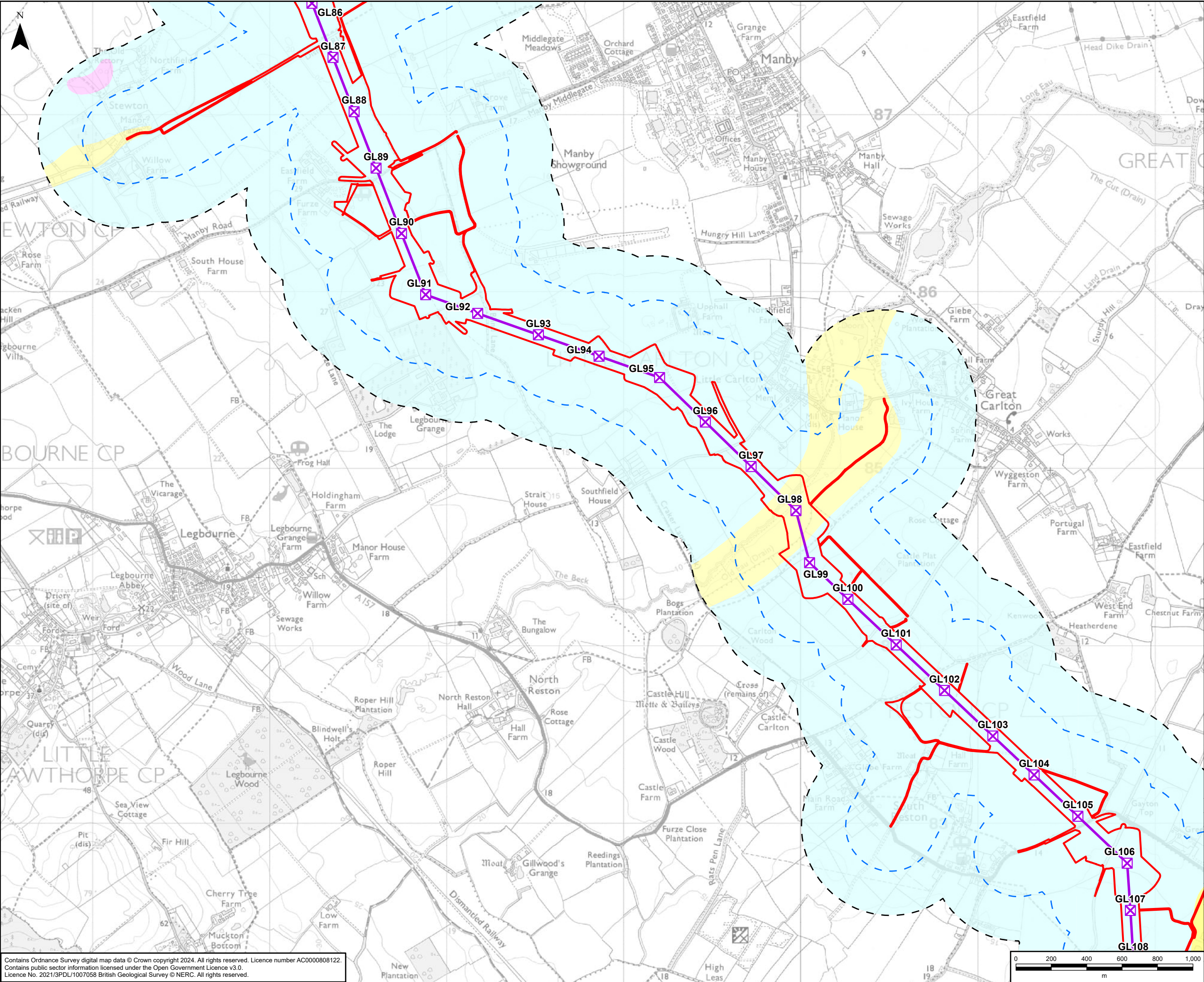


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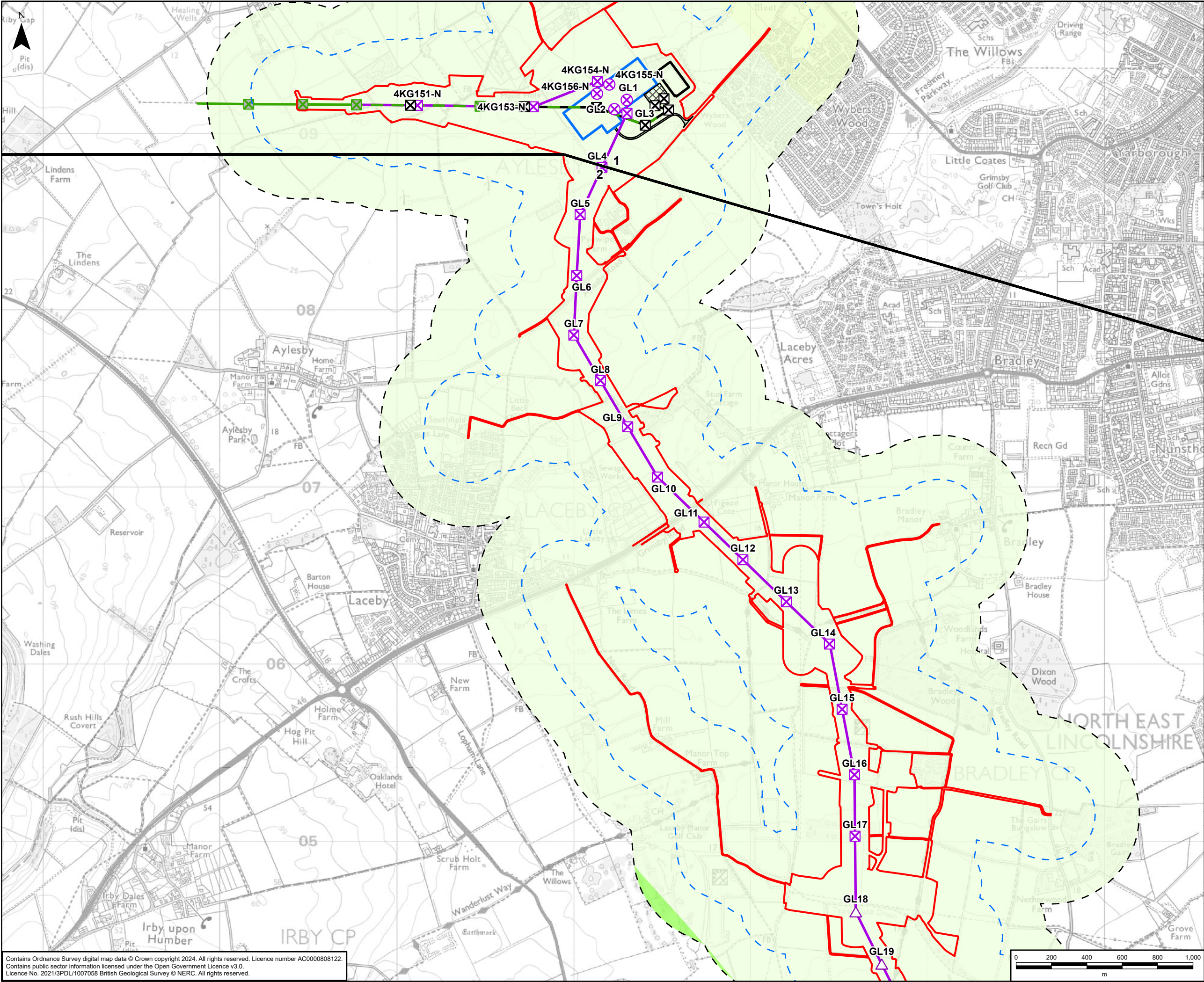
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Indicative New Substation Boundary

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Bedrock Geology (BGS 50k)

Burnham Chalk Formation - Chalk

Flamborough Chalk Formation - Chalk

Welton Chalk Formation - Chalk

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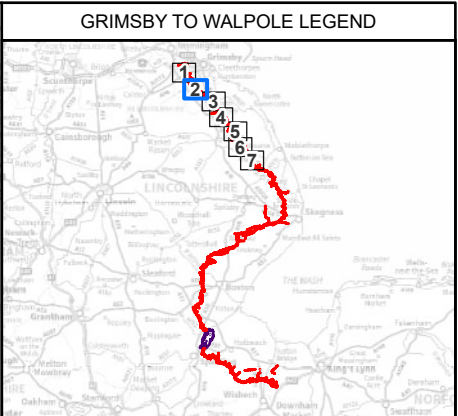
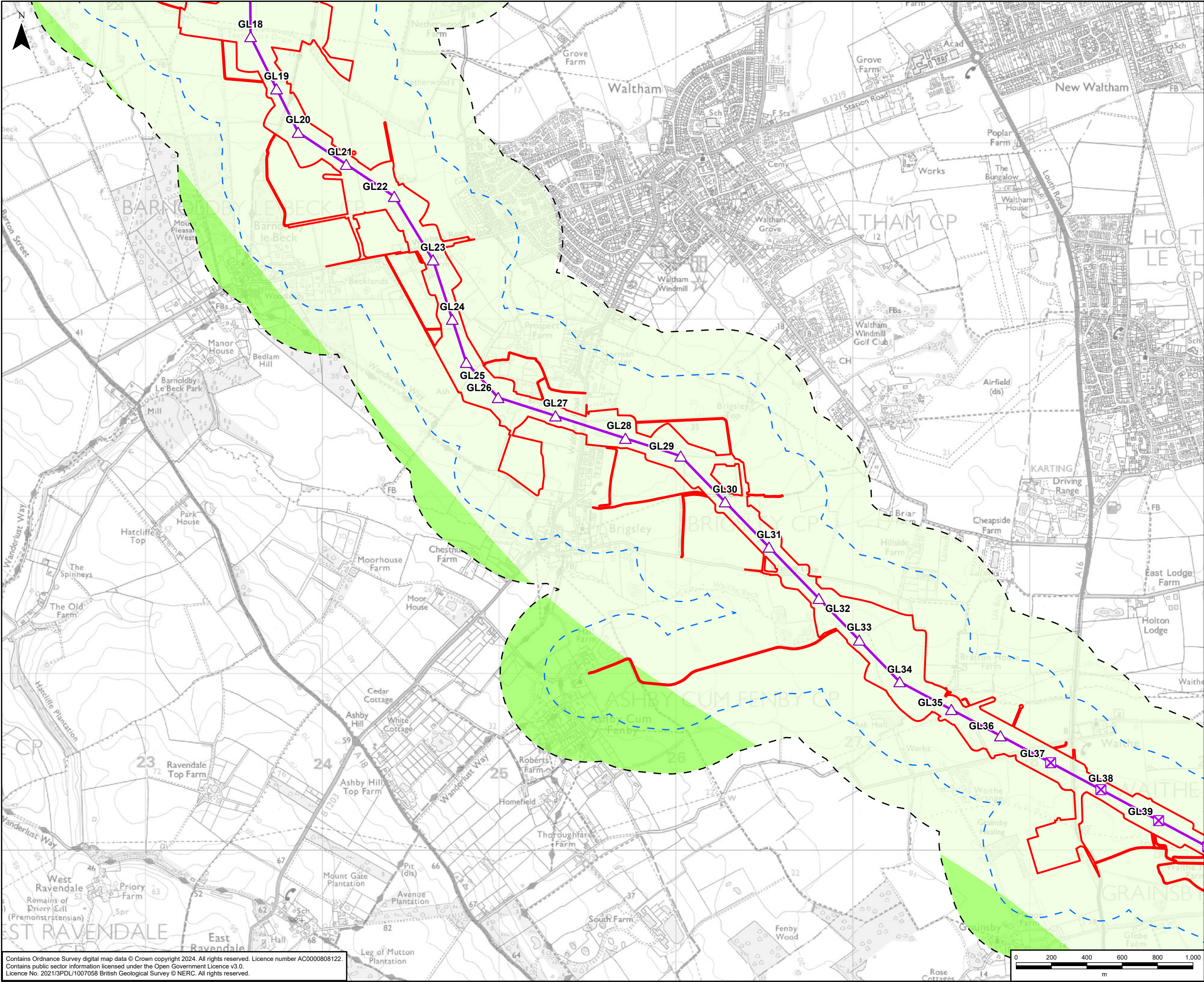
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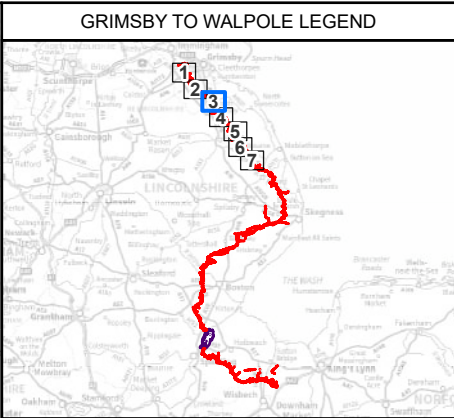
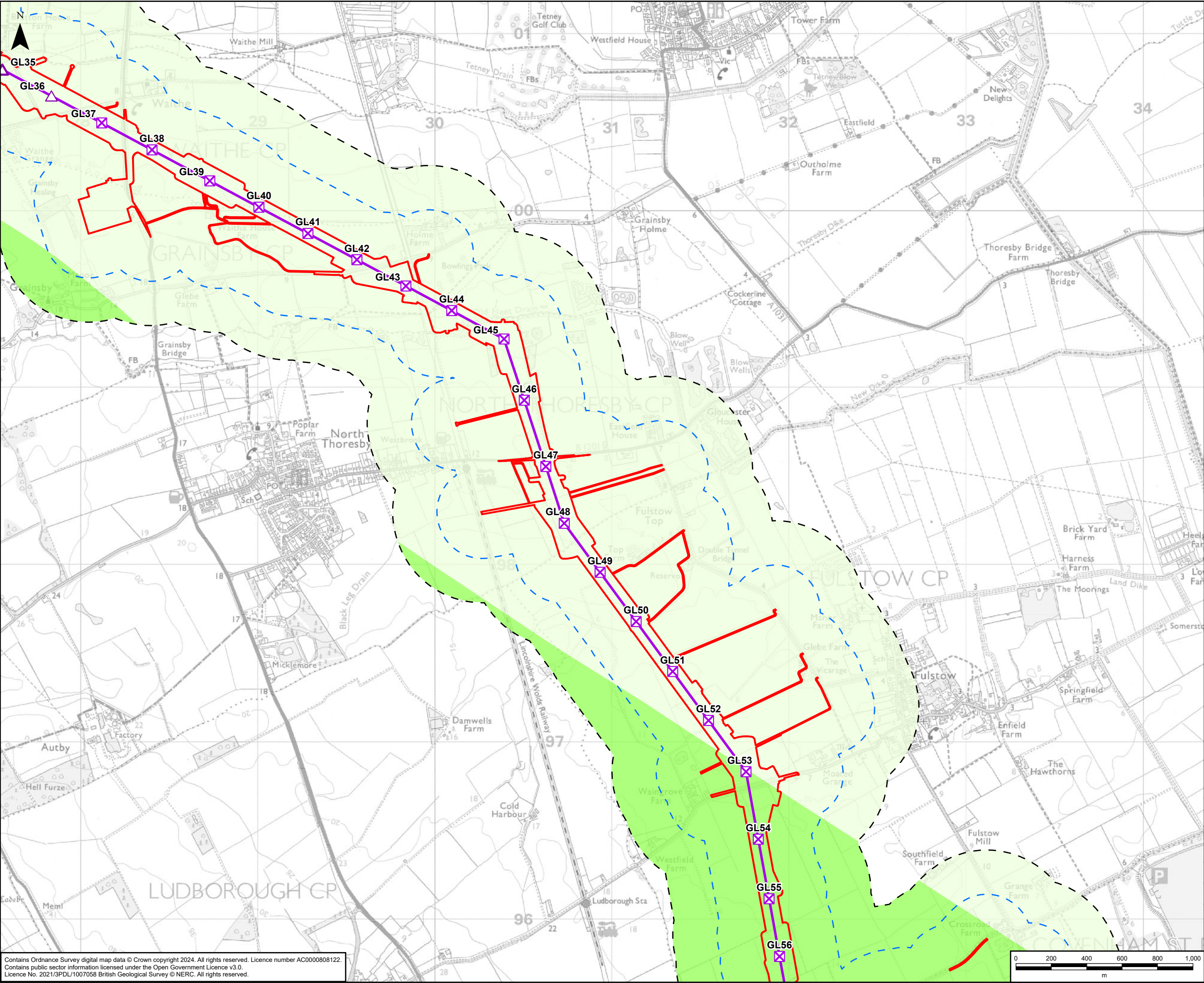
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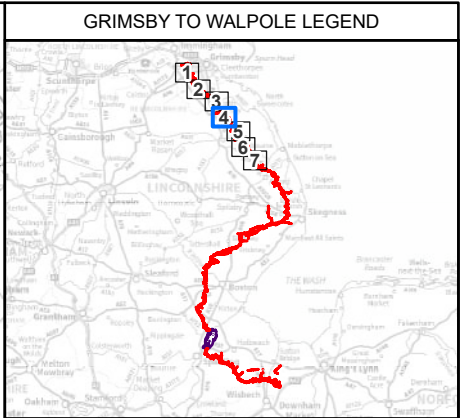
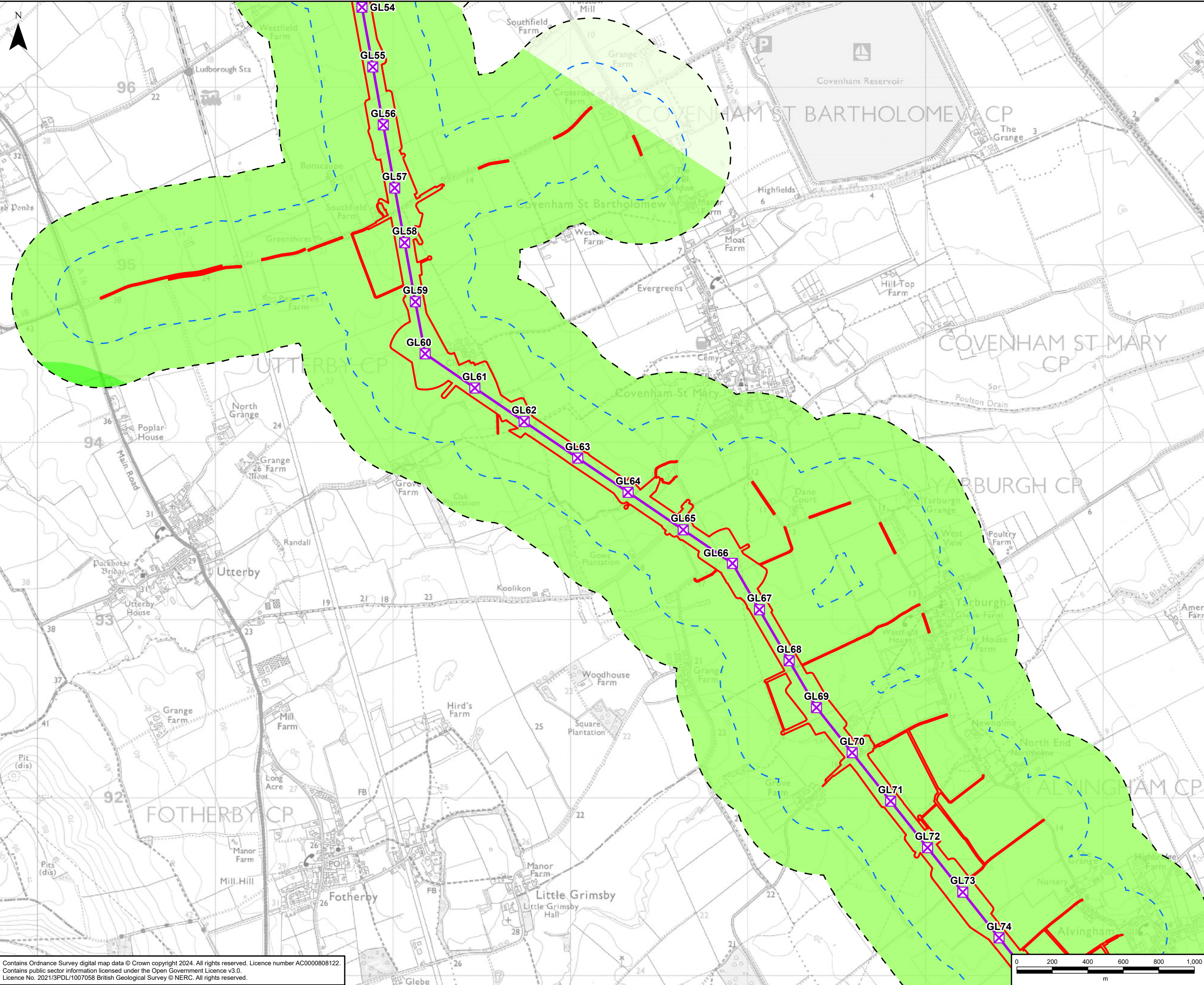
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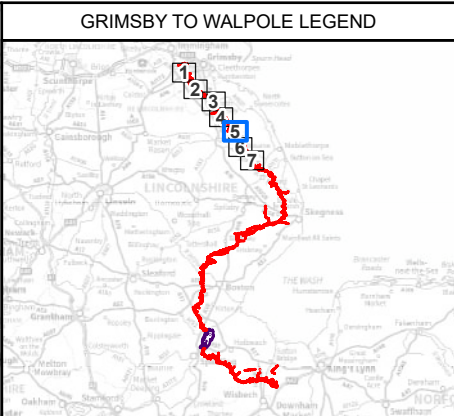
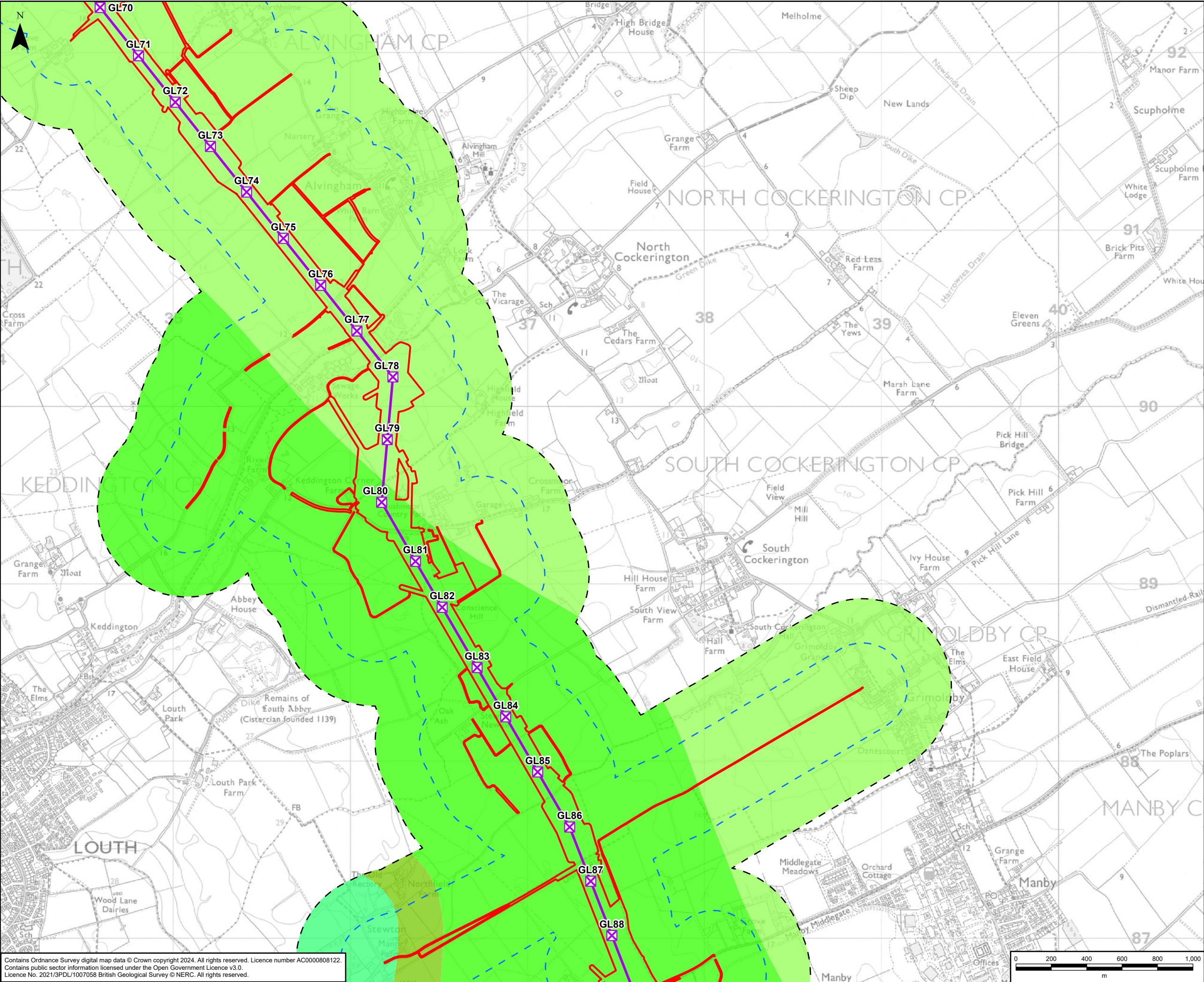
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- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Bedrock Geology (BGS 50k)
- Burnham Chalk Formation - Chalk
 - Ferriby Chalk Formation - Chalk
 - Welton Chalk Formation - Chalk

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Scheme:		GRIMSBY TO WALPOLE			
Document Title:		FIGURE 7.3 BEDROCK GEOLOGY			
Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	07/04/2025	SG	07/04/2025	DR	07/04/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:20,000	A3	4 OF 7	A	

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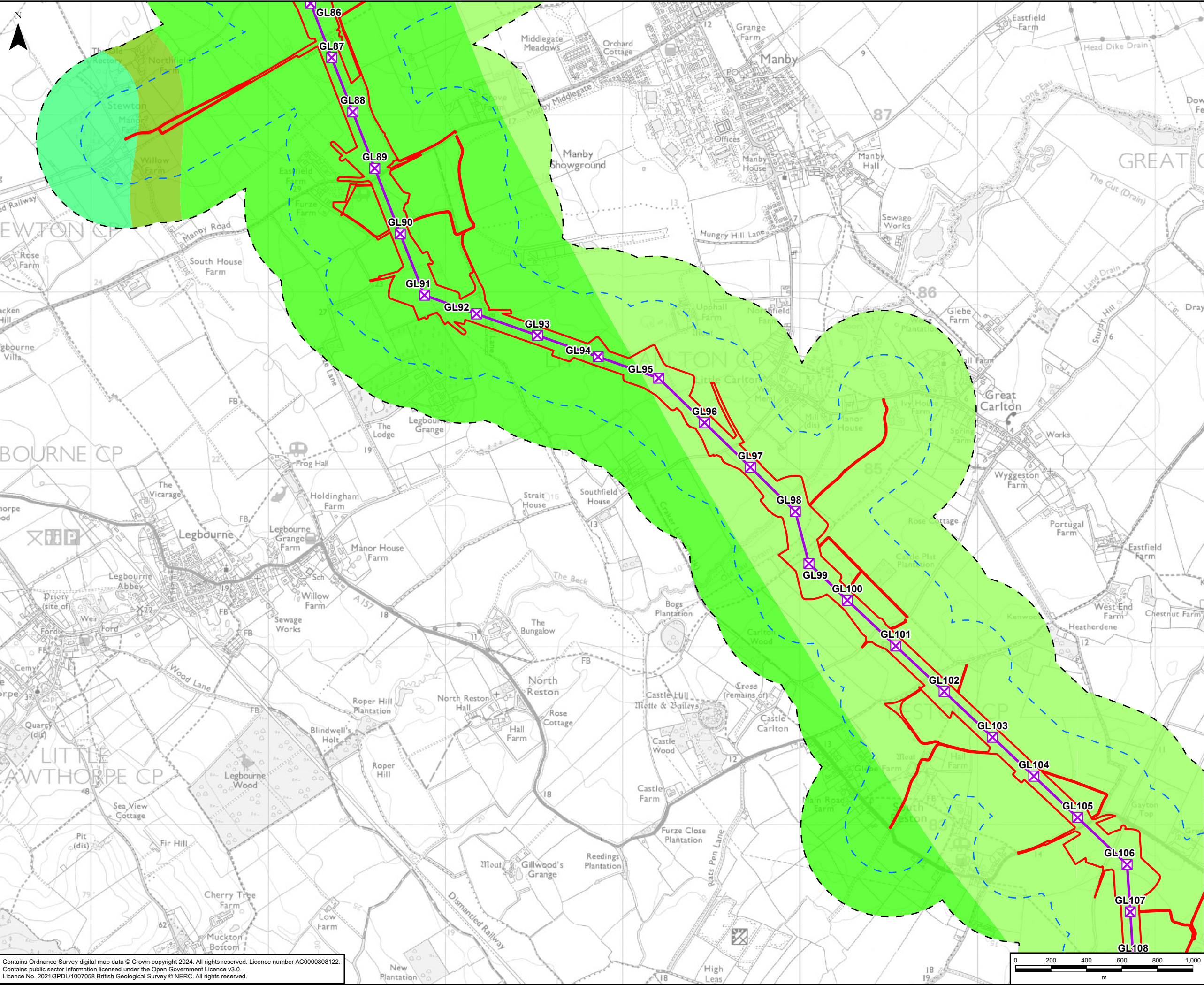


- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Bedrock Geology (BGS 50k)
- Carstone Formation - Sandstone
 - Ferriby Chalk Formation - Chalk
 - Hunstanton Formation - Chalk
 - Welton Chalk Formation - Chalk

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Bedrock Geology (BGS 50k)

- Carstone Formation - Sandstone
- Ferriby Chalk Formation - Chalk
- Hunstanton Formation - Chalk
- Welton Chalk Formation - Chalk

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Rev	Date	Description	GIS	Chk	App

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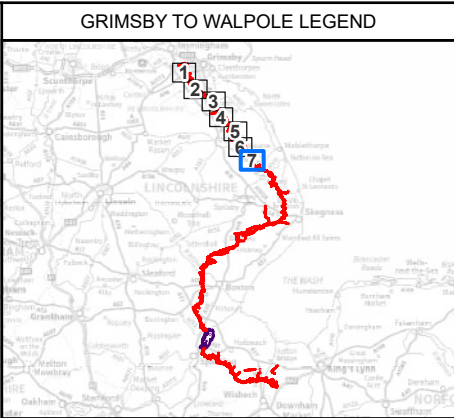
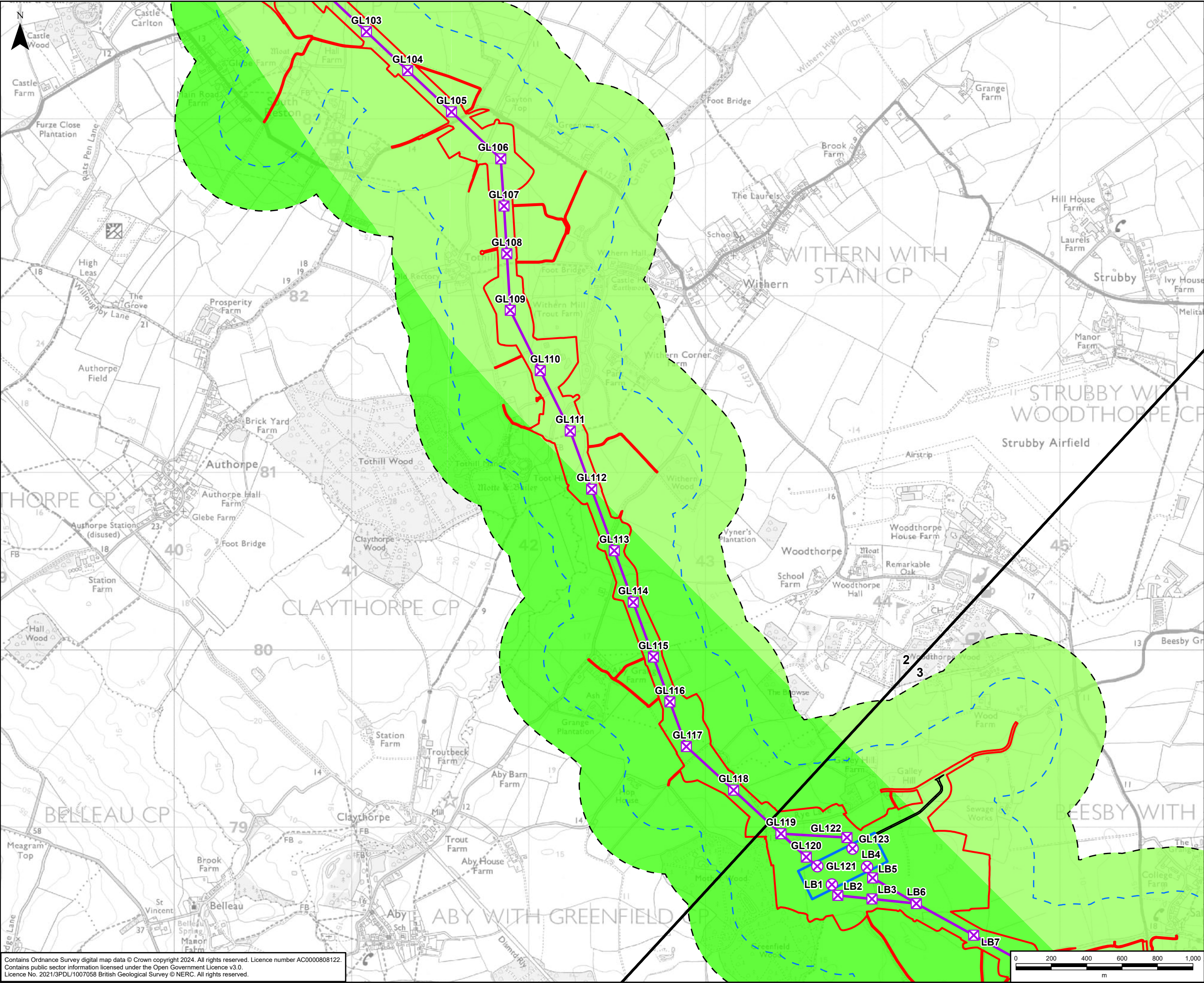
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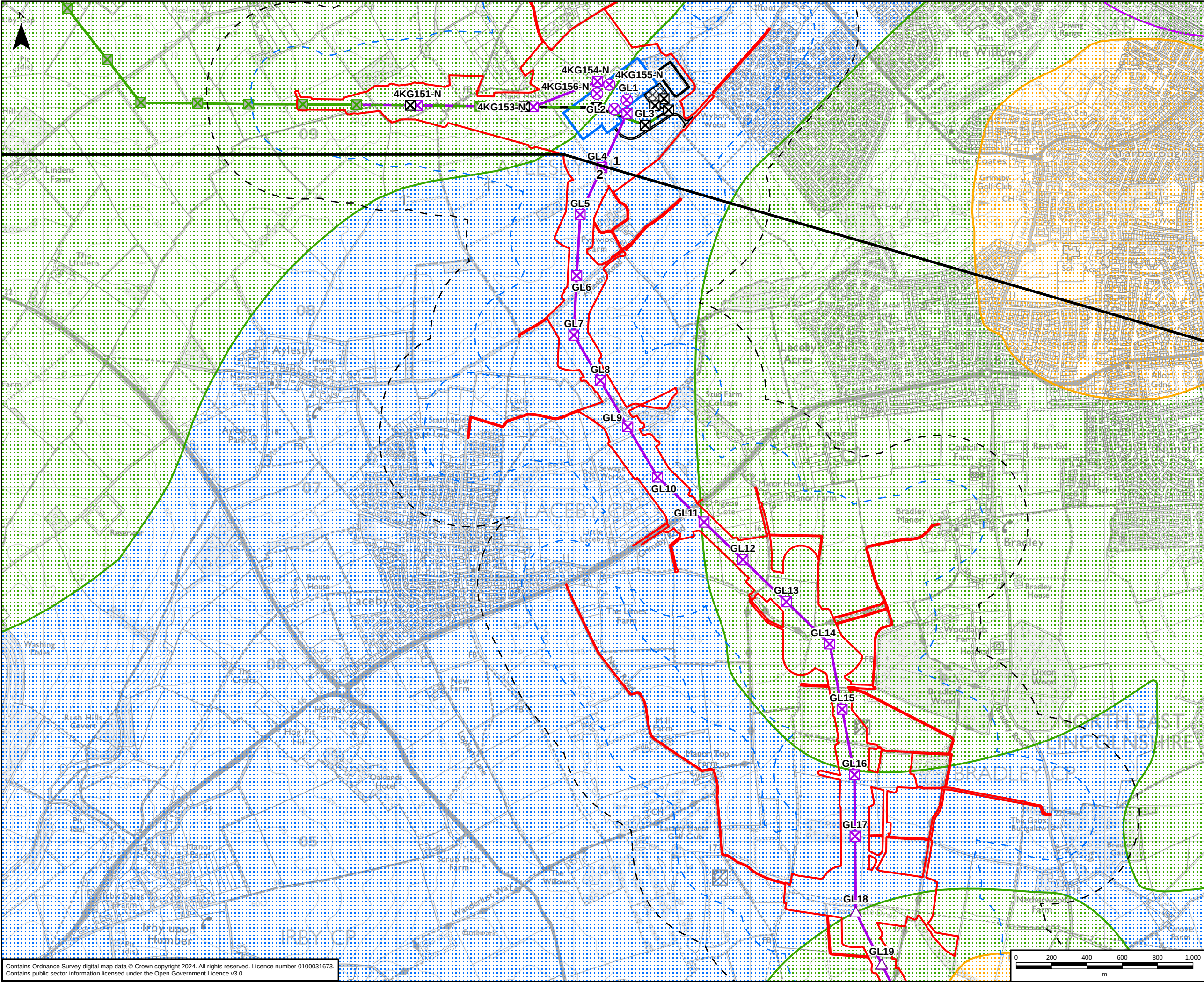
- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Bedrock Geology (BGS 50k)

- Ferriby Chalk Formation - Chalk
- Welton Chalk Formation - Chalk

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Purpose:		PEI REPORT - SECTION 2			
Scheme:		GRIMSBY TO WALPOLE			
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LC	07/04/2025	SG	07/04/2025	DR	07/04/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Existing Lattice Pylon - Not Affected

Existing Lattice Pylon - To Be Dismantled

Indicative New Low Height Lattice Pylon

Indicative New Overhead Line

Existing Overhead Line - Not Affected

Existing Overhead Line - To Be Dismantled

Existing Overhead Line - To Be Modified

Existing Substation Boundary

Existing Substation to be Demolished

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Source Protection Zone

Zone 1

Zone 2

Zone 2c

Zone 3

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Document Title:

FIGURE 7.4
GROUNDWATER SOURCE PROTECTION ZONES

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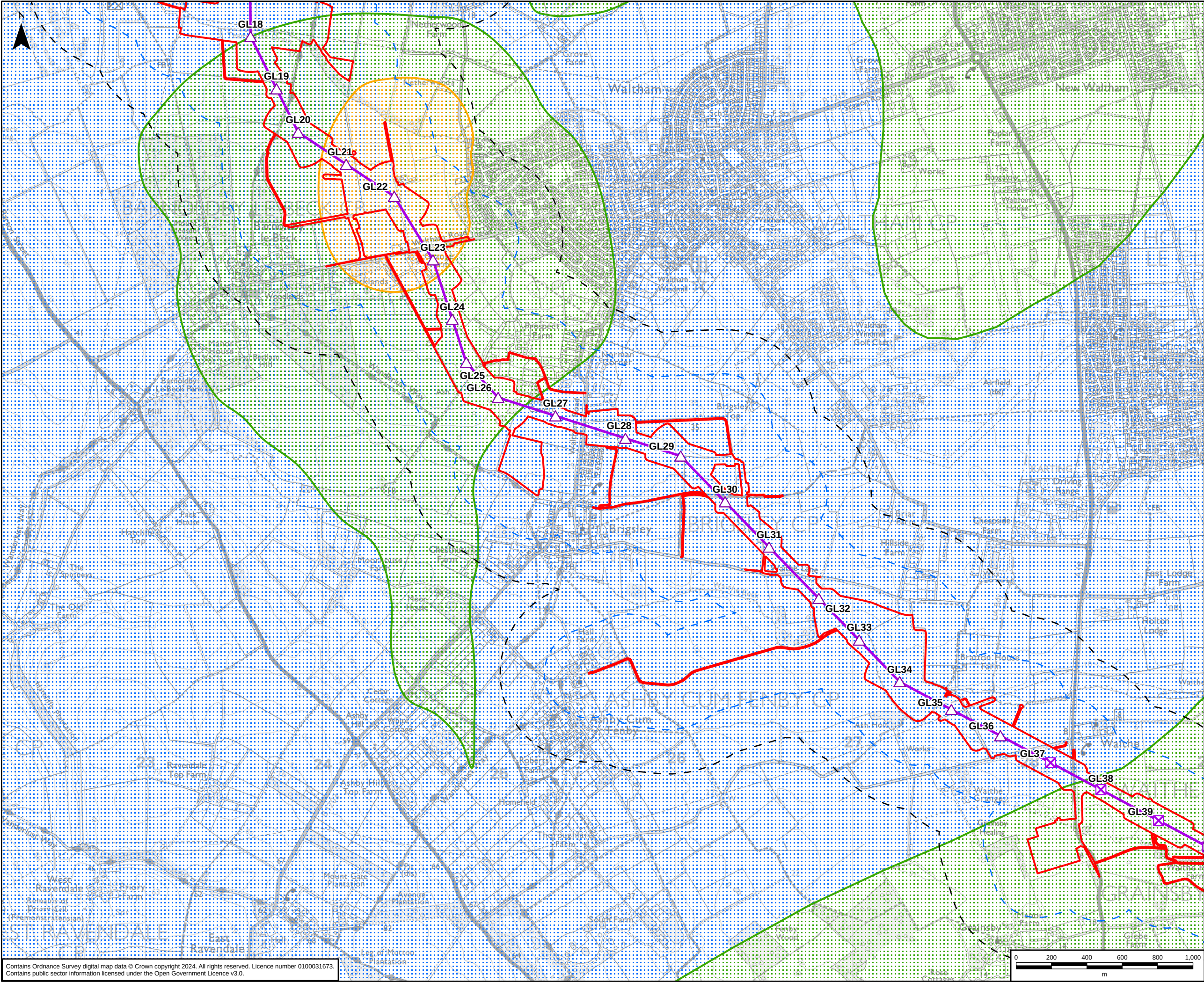
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Source Protection Zone

- Zone 1
- Zone 2
- Zone 3

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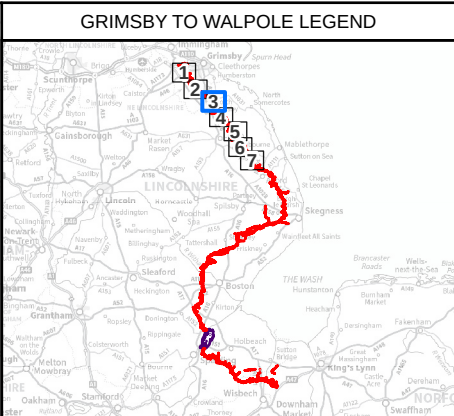
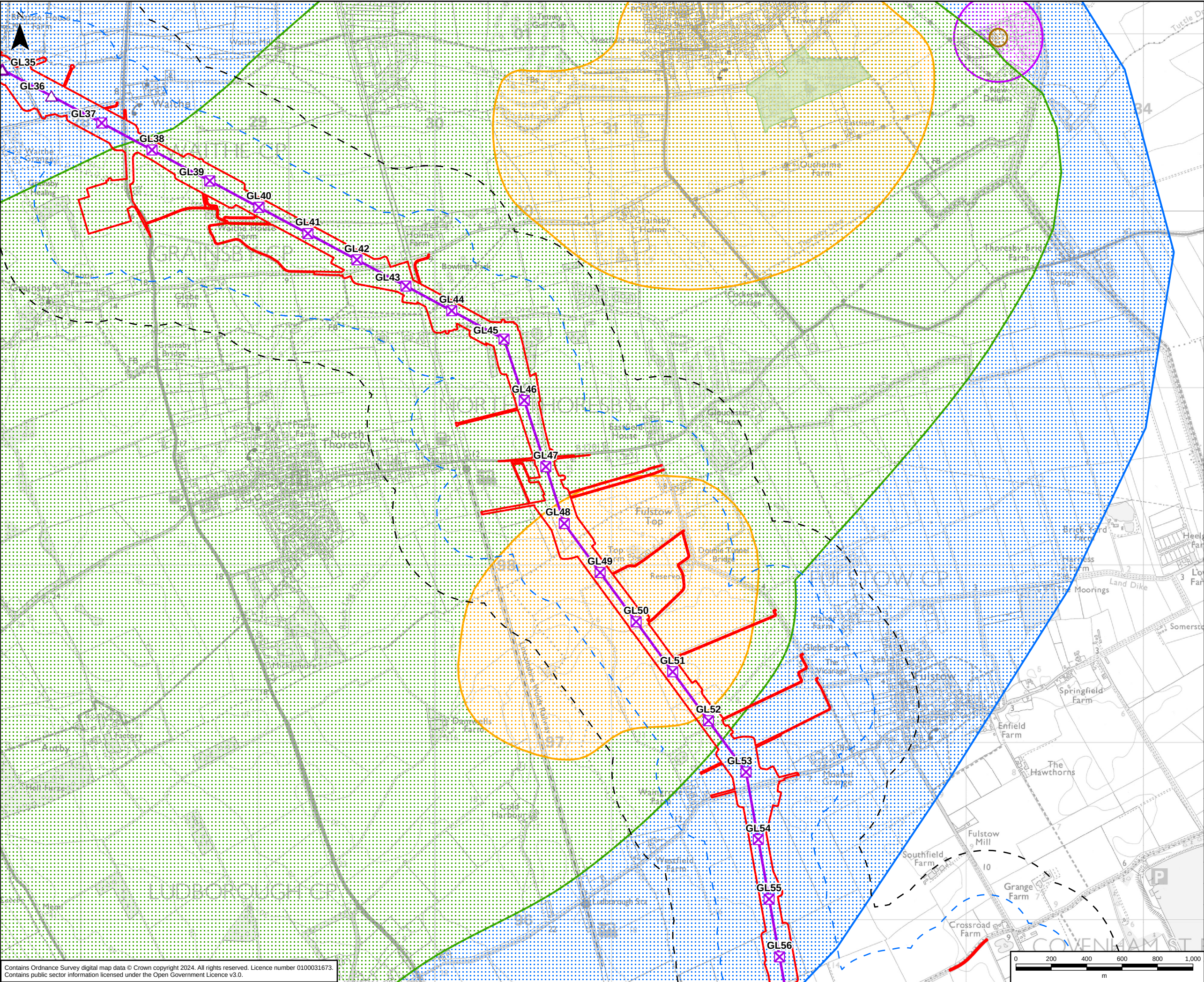
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GRIMSBY TO WALPOLE

FIGURE 7.4
GROUNDWATER SOURCE PROTECTION ZONES

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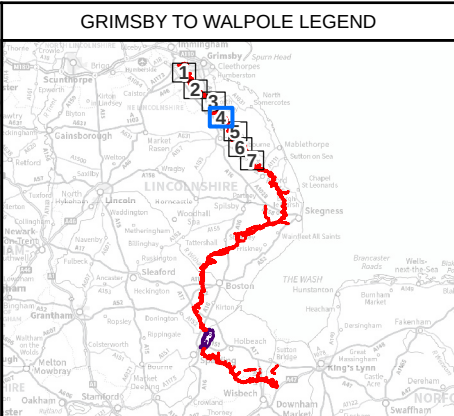
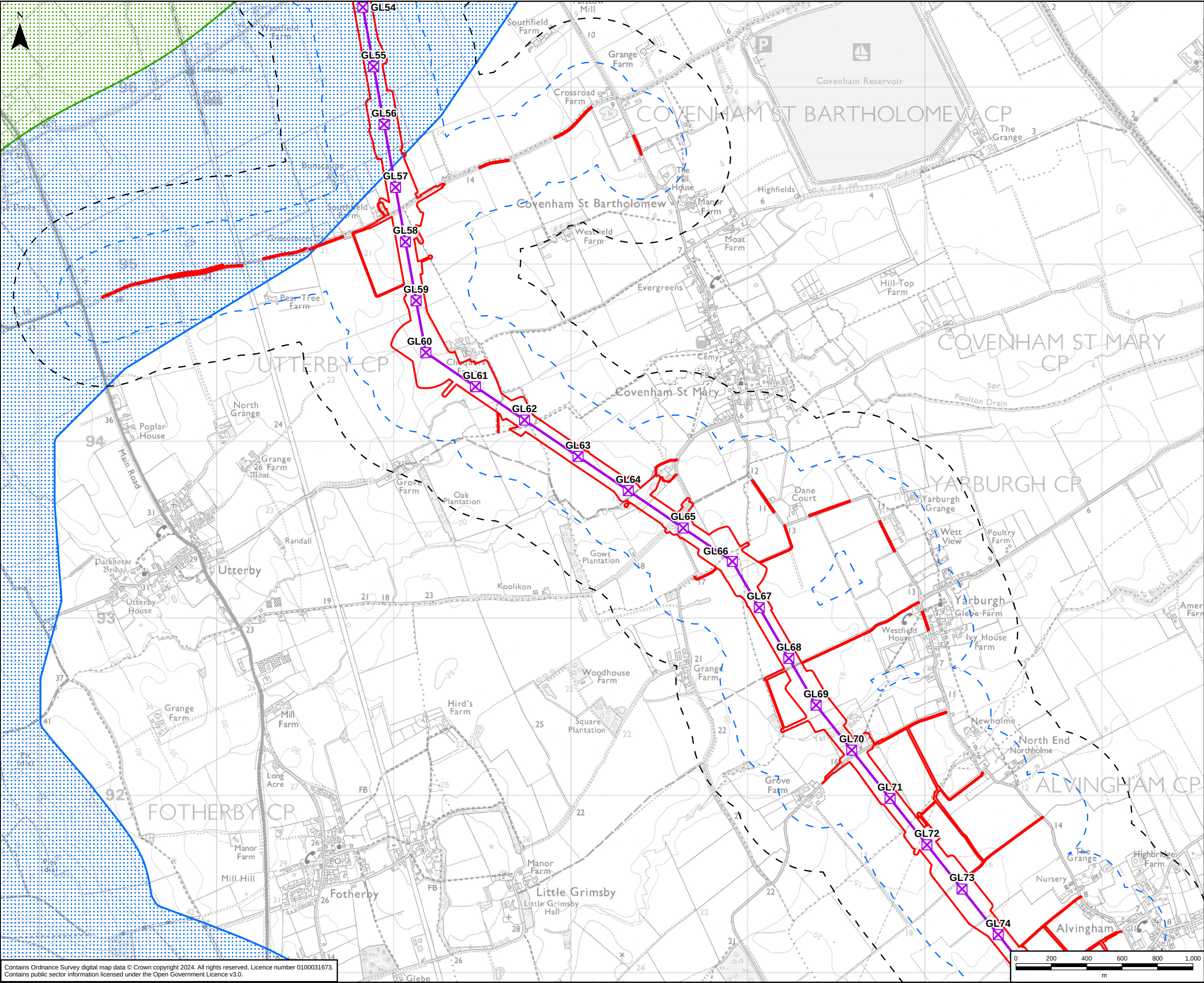
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- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Groundwater Dependent Terrestrial Ecosystem

Source Protection Zone

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3

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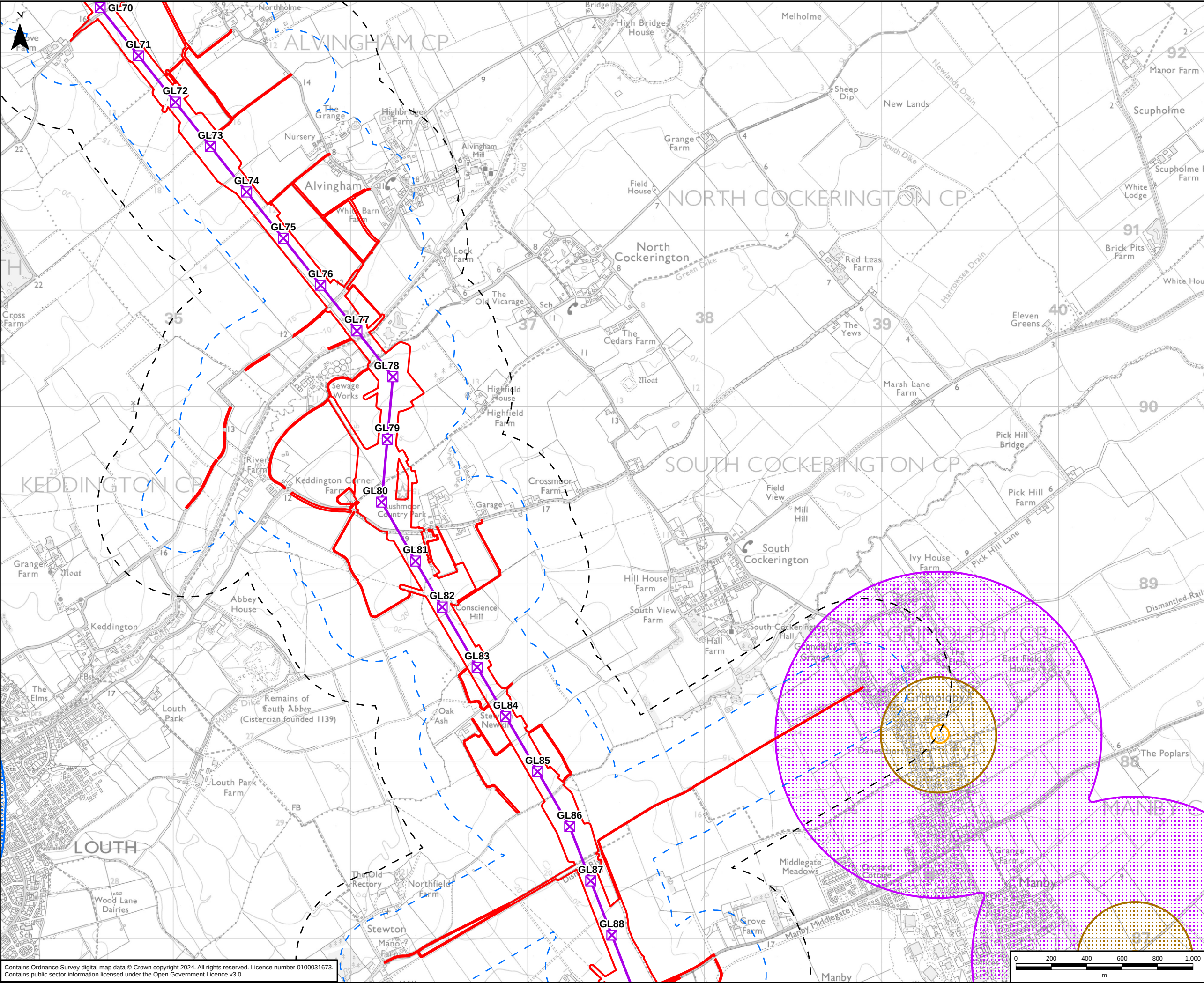
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- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Source Protection Zone
- Zone 2
 - Zone 3

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Source Protection Zone

- Zone 1
- Zone 1c
- Zone 2c
- Zone 3

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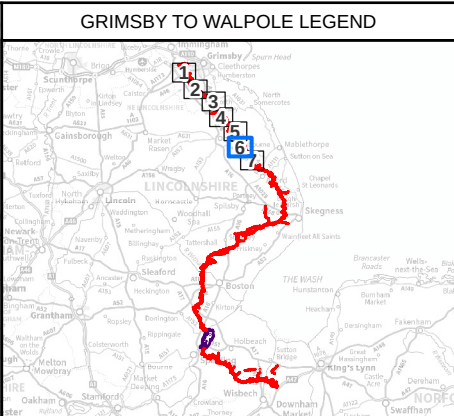
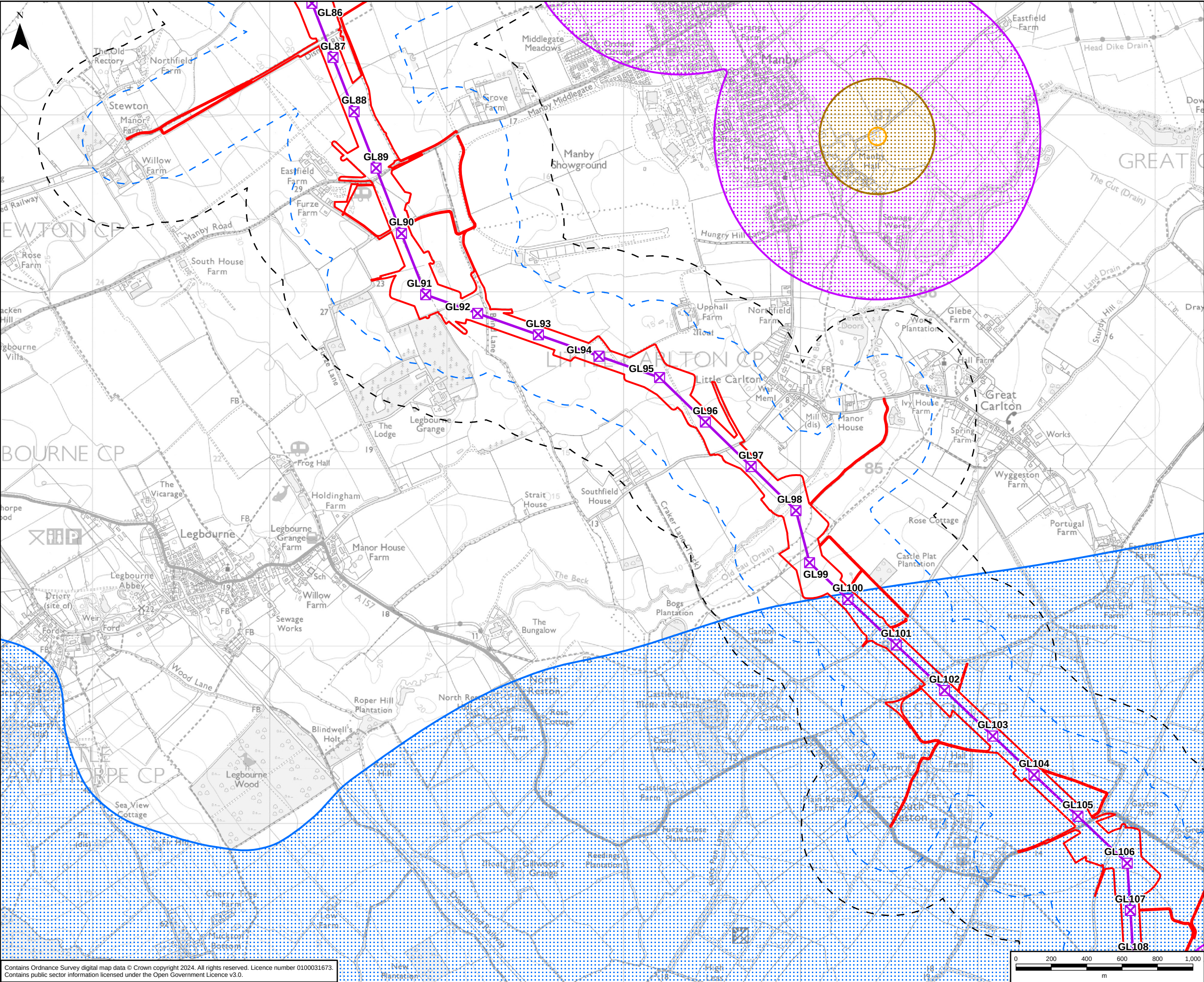
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GROUNDWATER SOURCE PROTECTION ZONES

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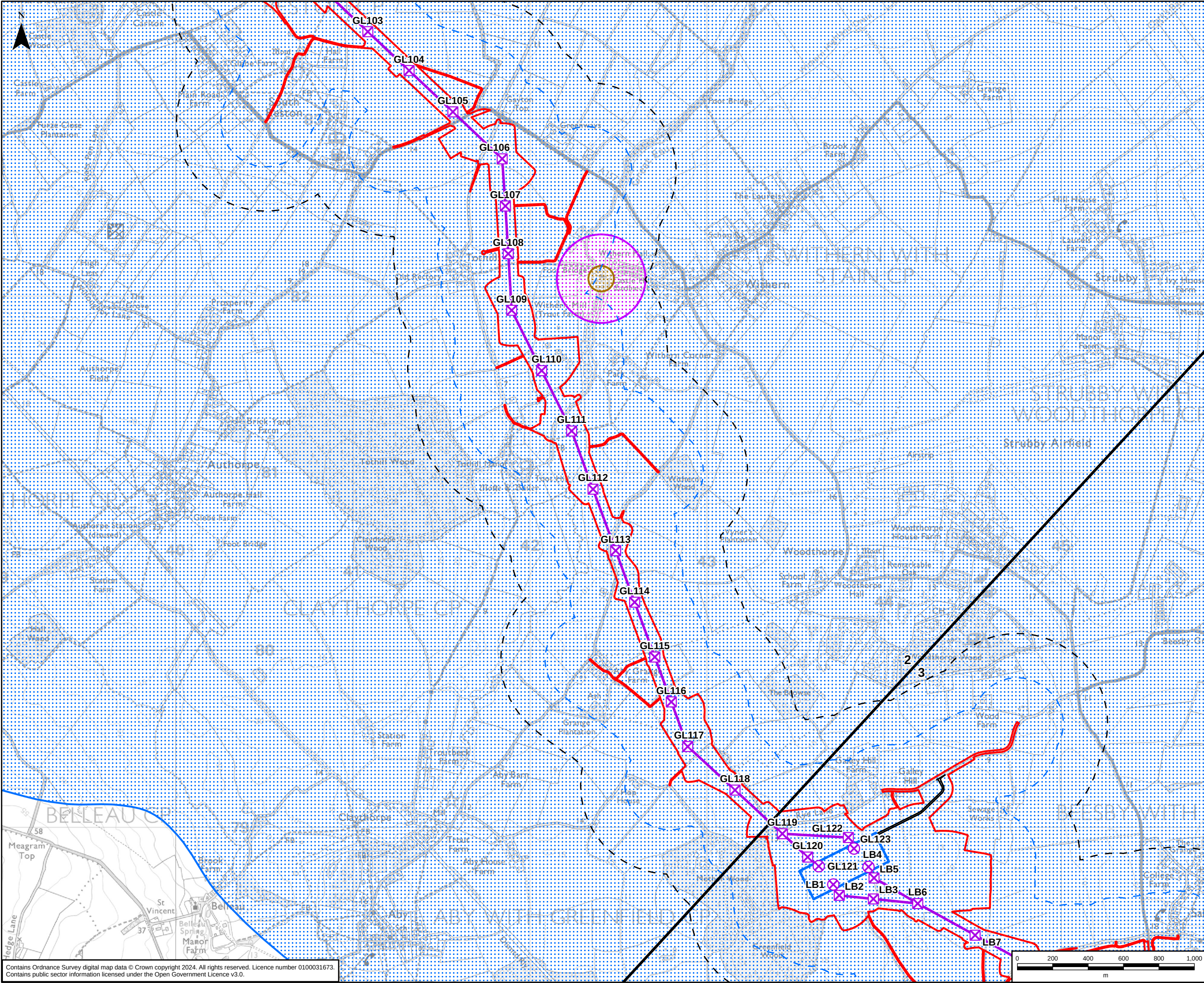
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- Legend**
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Source Protection Zone**
- Zone 1
 - Zone 1c
 - Zone 2c
 - Zone 3

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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Indicative New Overhead Line

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Source Protection Zone

Zone 1c

Zone 2c

Zone 3

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Scheme:

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Document Title:

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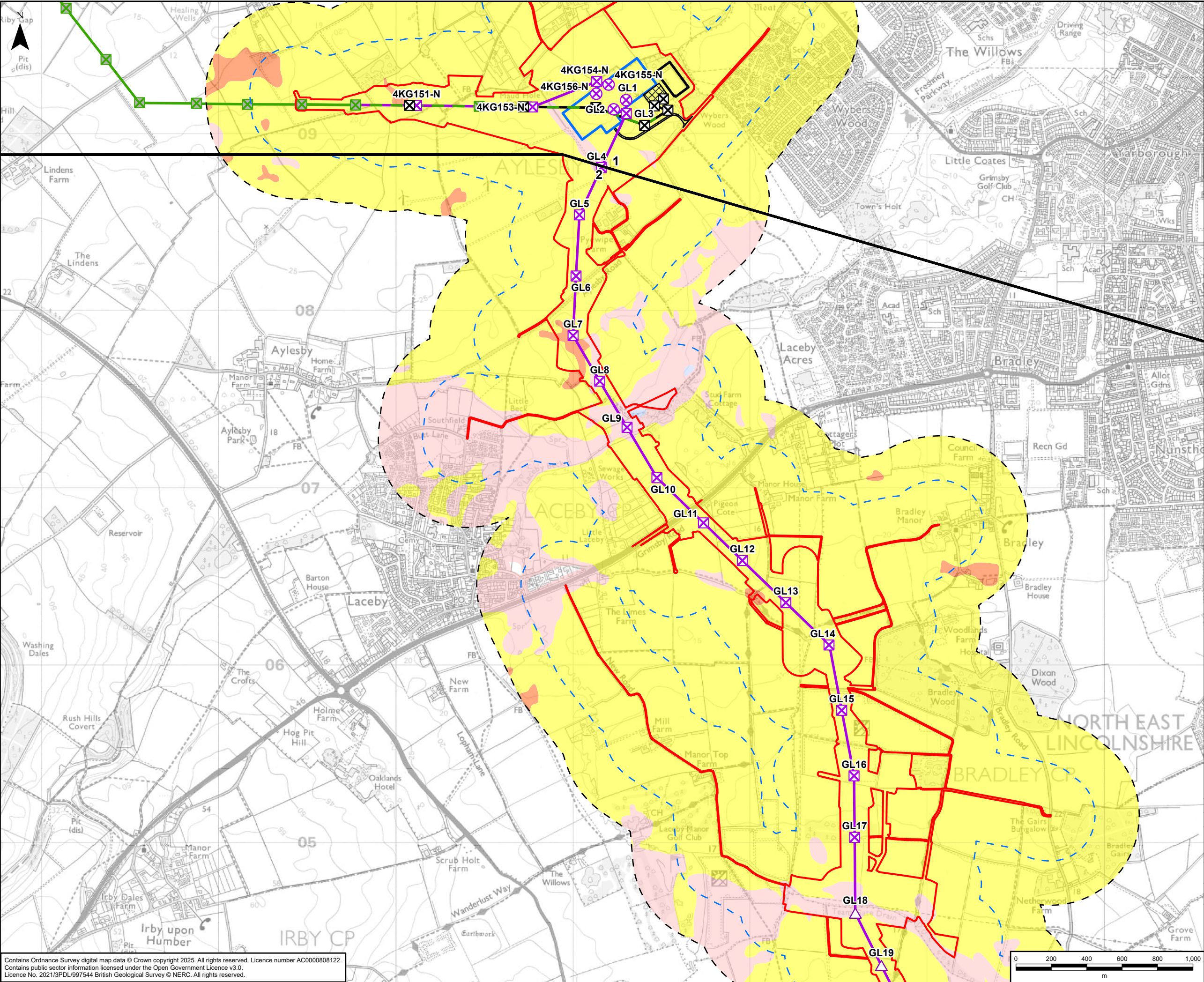
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Aquifer Designation: Superficial Deposits

- Secondary A
- Secondary B
- Secondary (Undifferentiated)
- Unproductive Strata

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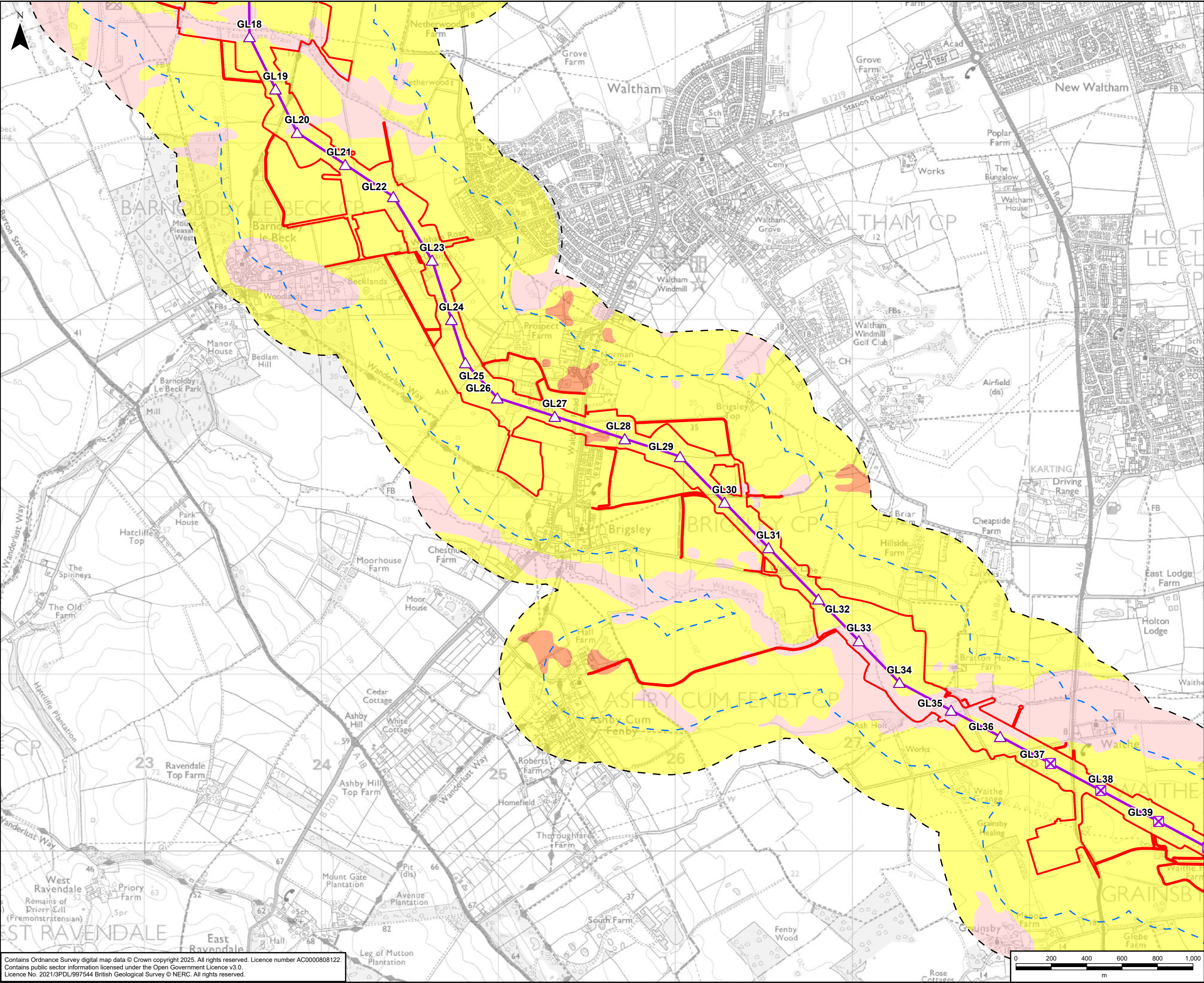
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Document Title: FIGURE 7.5
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line

Aquifer Designation: Superficial Deposits

- Secondary A
- Secondary B
- Secondary (Undifferentiated)

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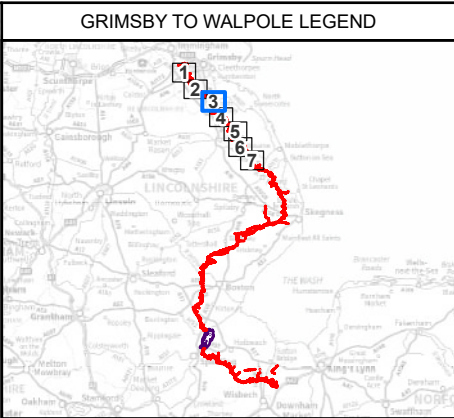
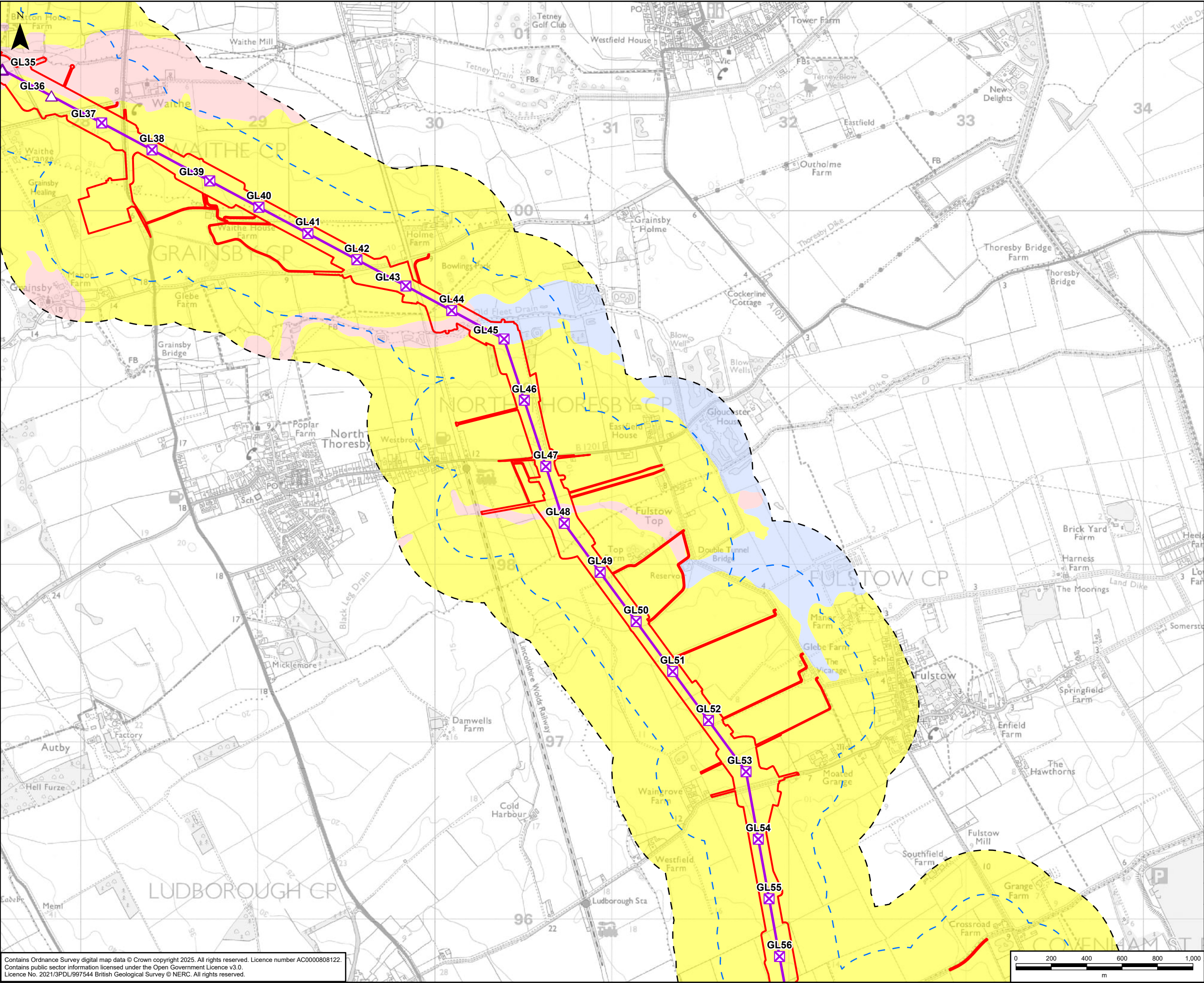
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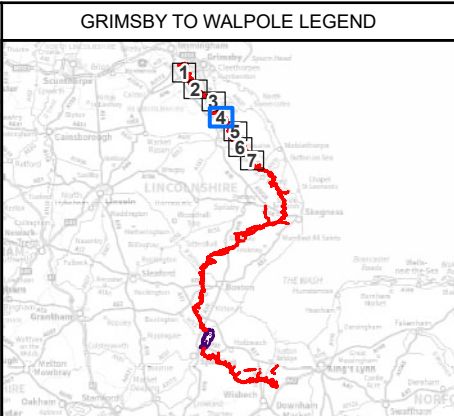
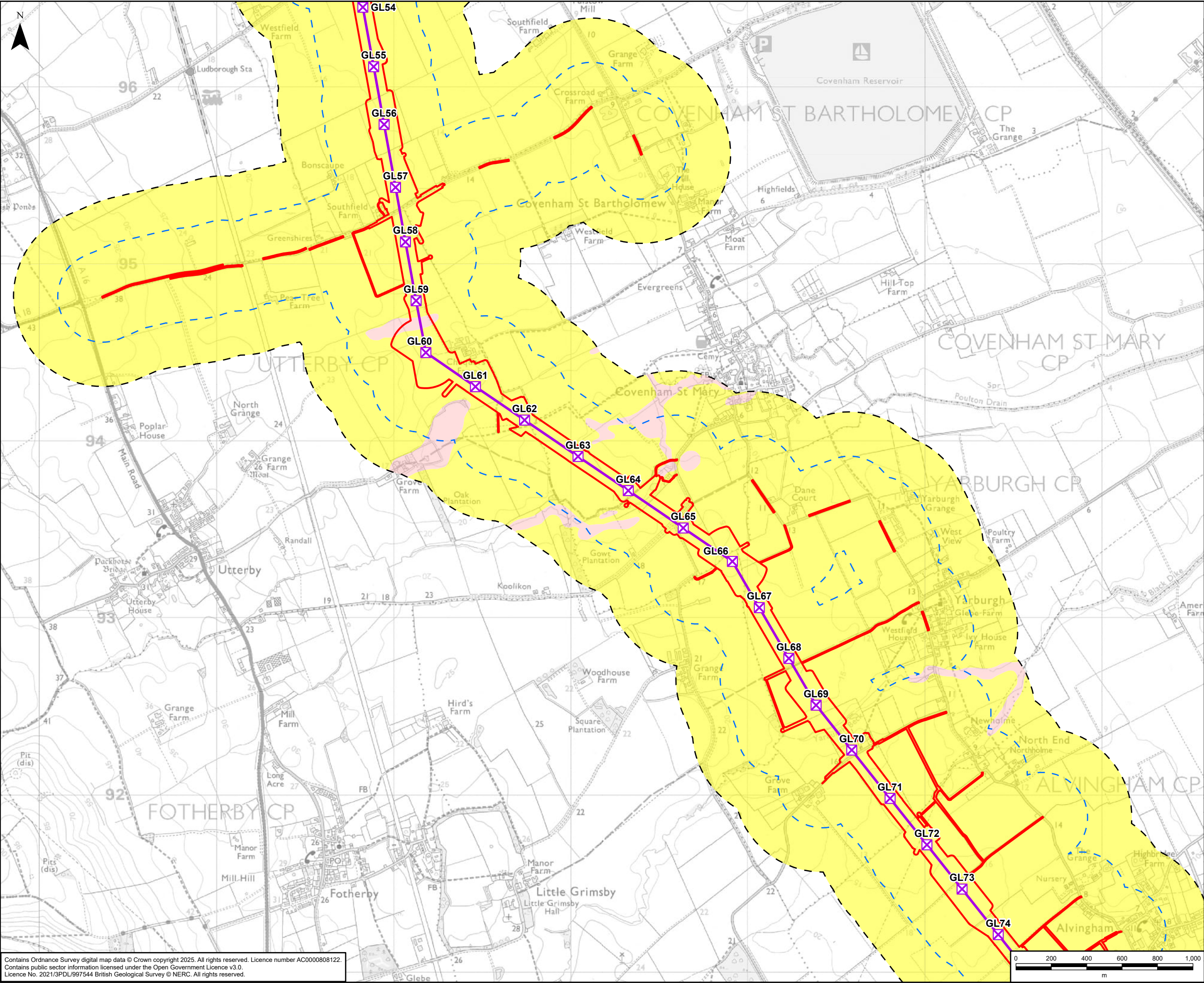
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- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Low Height Lattice Pylon
 - Indicative New Overhead Line
- Aquifer Designation: Superficial Deposits
- Secondary A
 - Secondary (Undifferentiated)
 - Unproductive Strata

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Document Title:		FIGURE 7.5 AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS			
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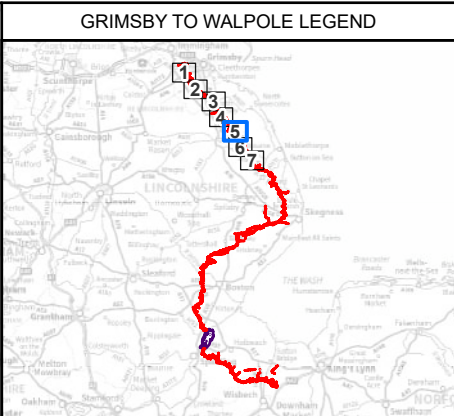
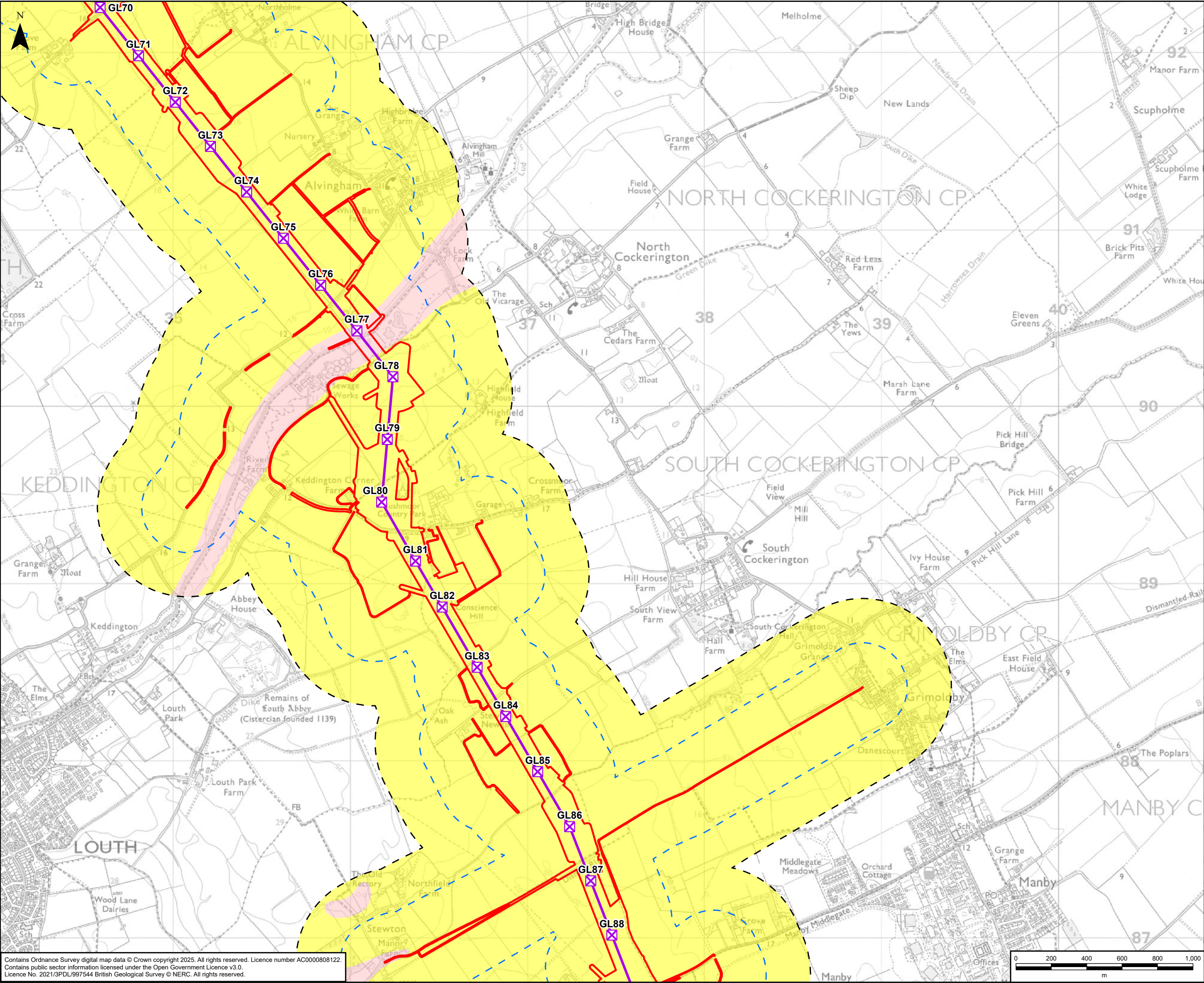
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- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
 - Aquifer Designation: Superficial Deposits
 - Secondary A
 - Secondary (Undifferentiated)

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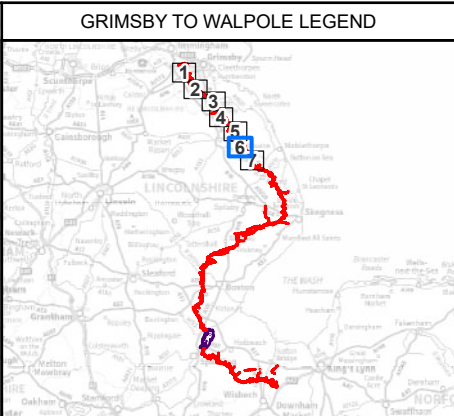
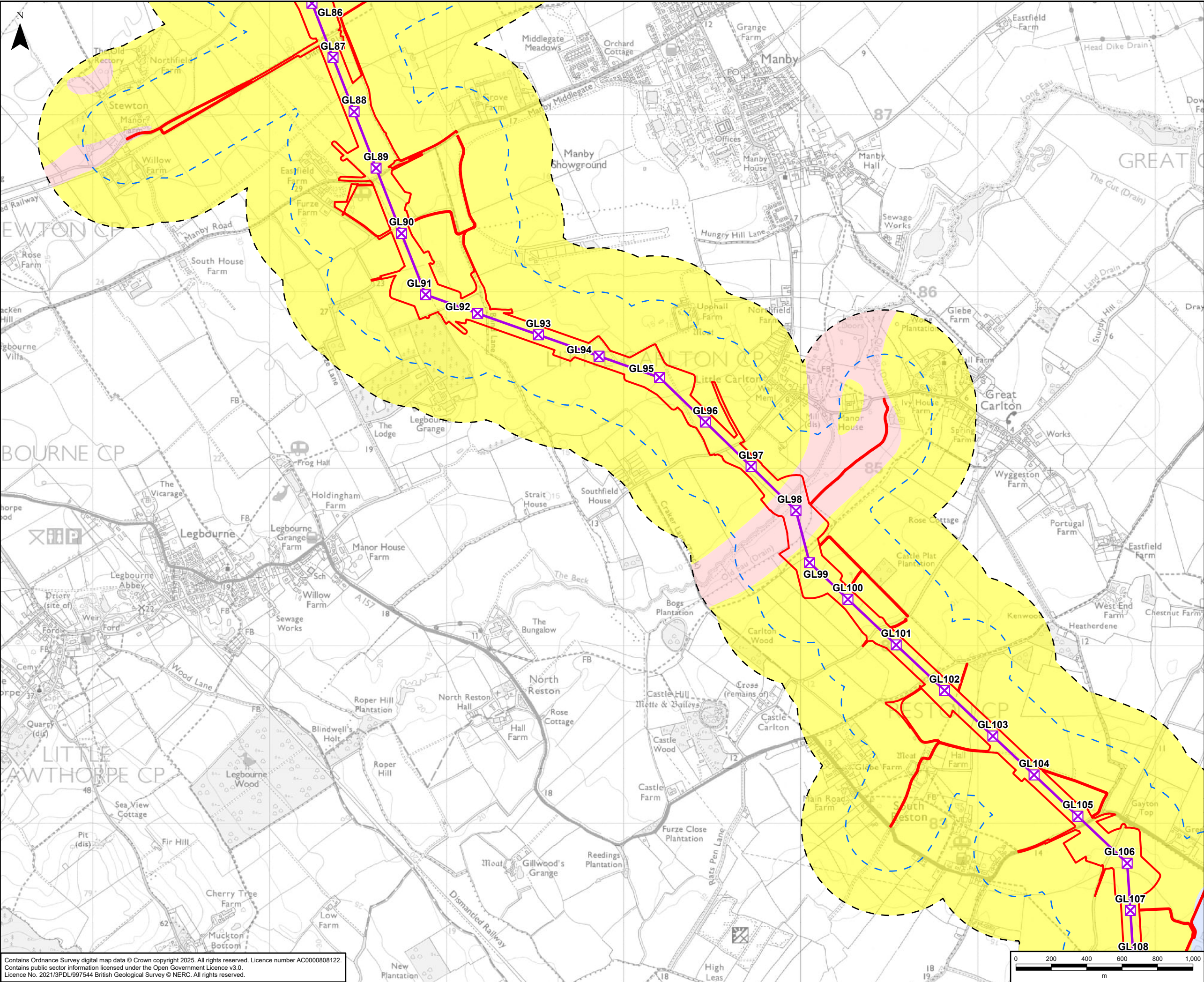


- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Aquifer Designation: Superficial Deposits
- Secondary A
 - Secondary (Undifferentiated)

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Creator:	Date:	Checker:	Date:	Approver:	Date:
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Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

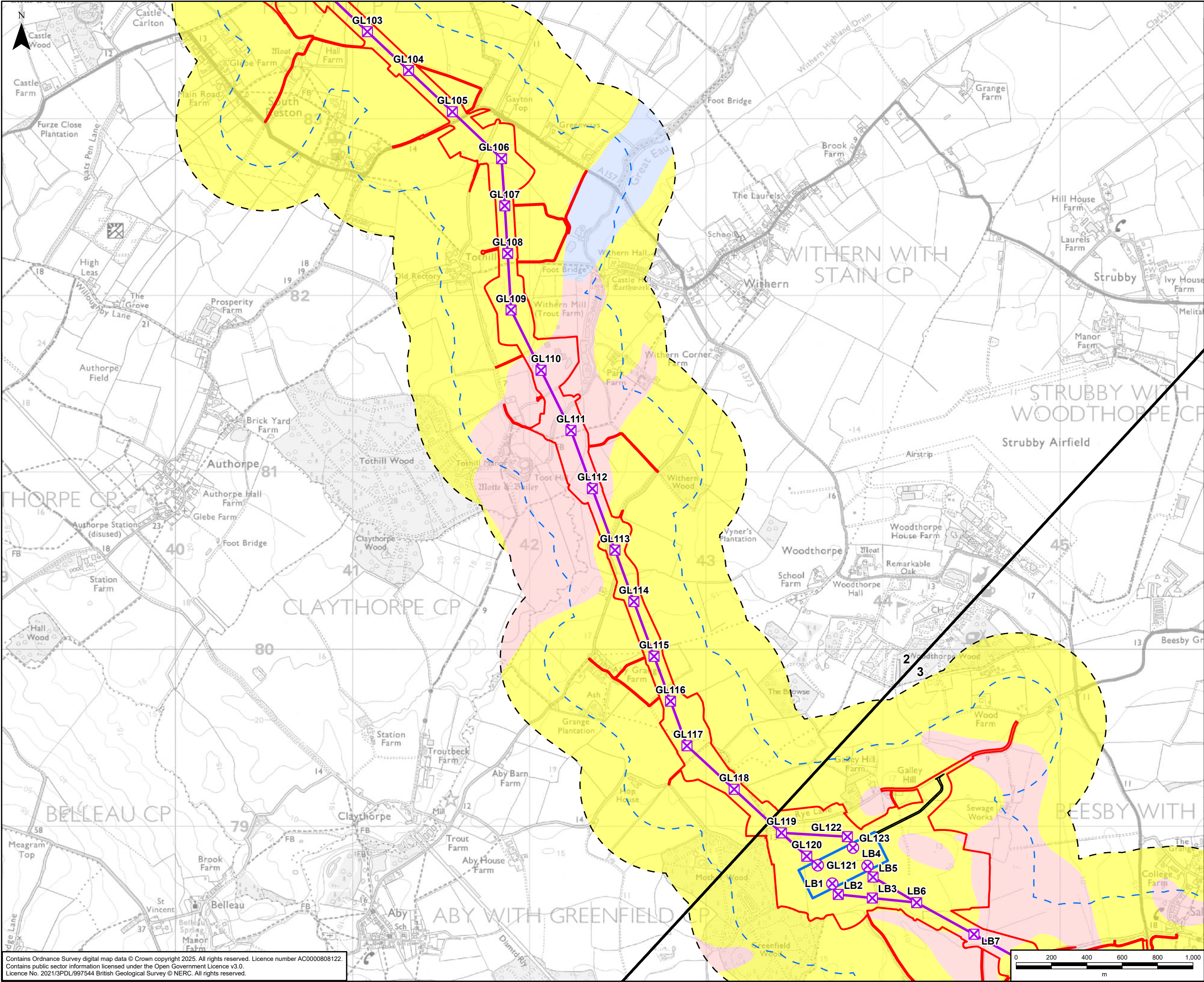
Aquifer Designation: Superficial Deposits

- Secondary A
- Secondary (Undifferentiated)
- Unproductive Strata

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Rev	Date	Description	GIS	Chk	App
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Purpose:		PEI REPORT - SECTION 2			
Scheme:		GRIMSBY TO WALPOLE			
Document Title:		FIGURE 7.5 AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS			
Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	28/04/2025	SG	28/04/2025	DR	28/04/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:20,000	A3	6 OF 7	A	



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Aquifer Designation: Superficial Deposits

- Secondary A
- Secondary (Undifferentiated)
- Unproductive Strata

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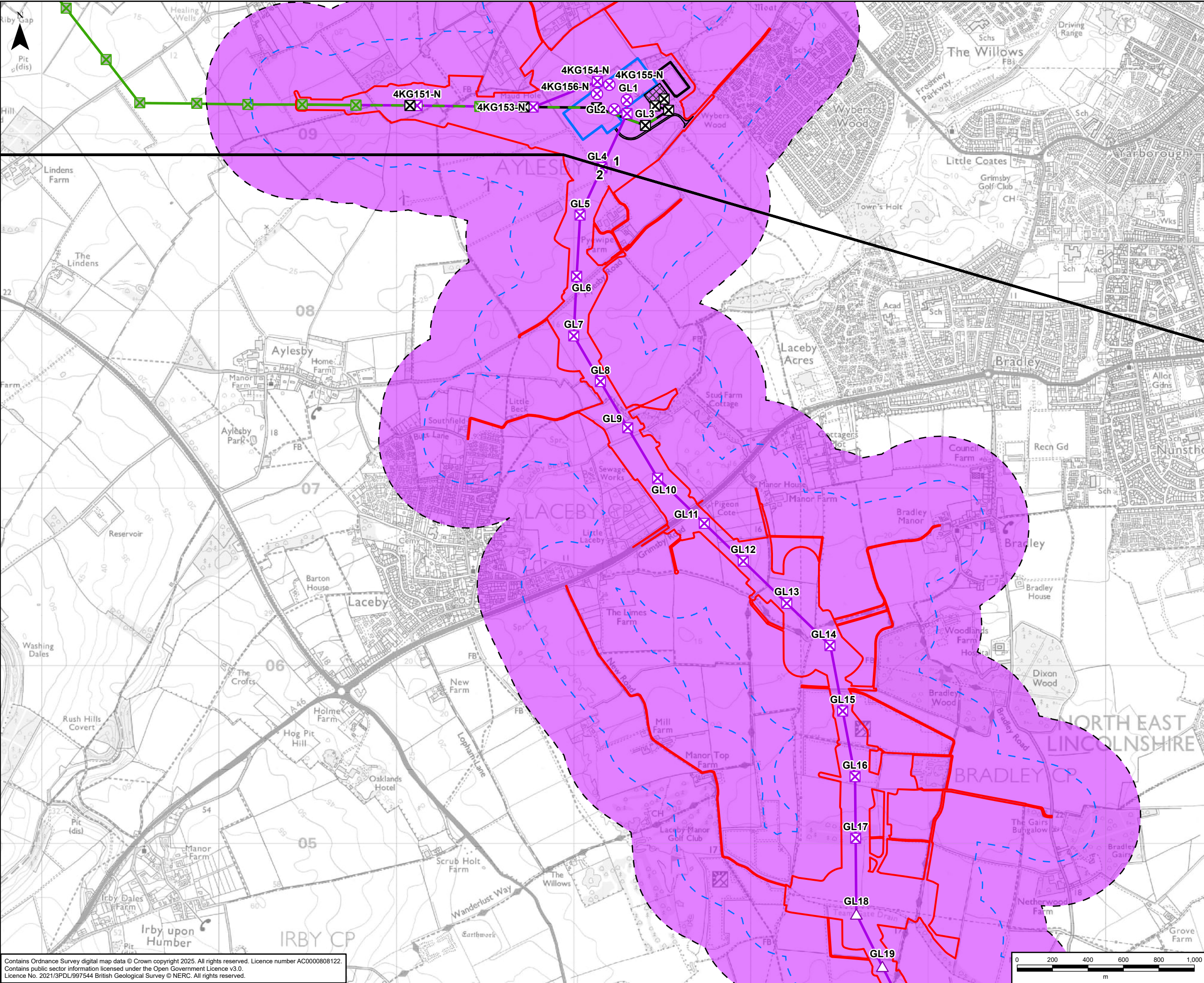
Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.5**
AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS

Creator: LC	Date: 28/04/2025	Checker: SG	Date: 28/04/2025	Approver: DR	Date: 28/04/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route
- Aquifer Designation: Bedrock Geology
- Principal

NOTE:
PWS - The abstracted unit is not known, and therefore may include abstractions from either superficial or bedrock geology.

The Environment Agency provides records of groundwater abstractions, which are not available under Open Government License (available under the Environment Agency Conditional License) and have therefore not been reproduced on this figure

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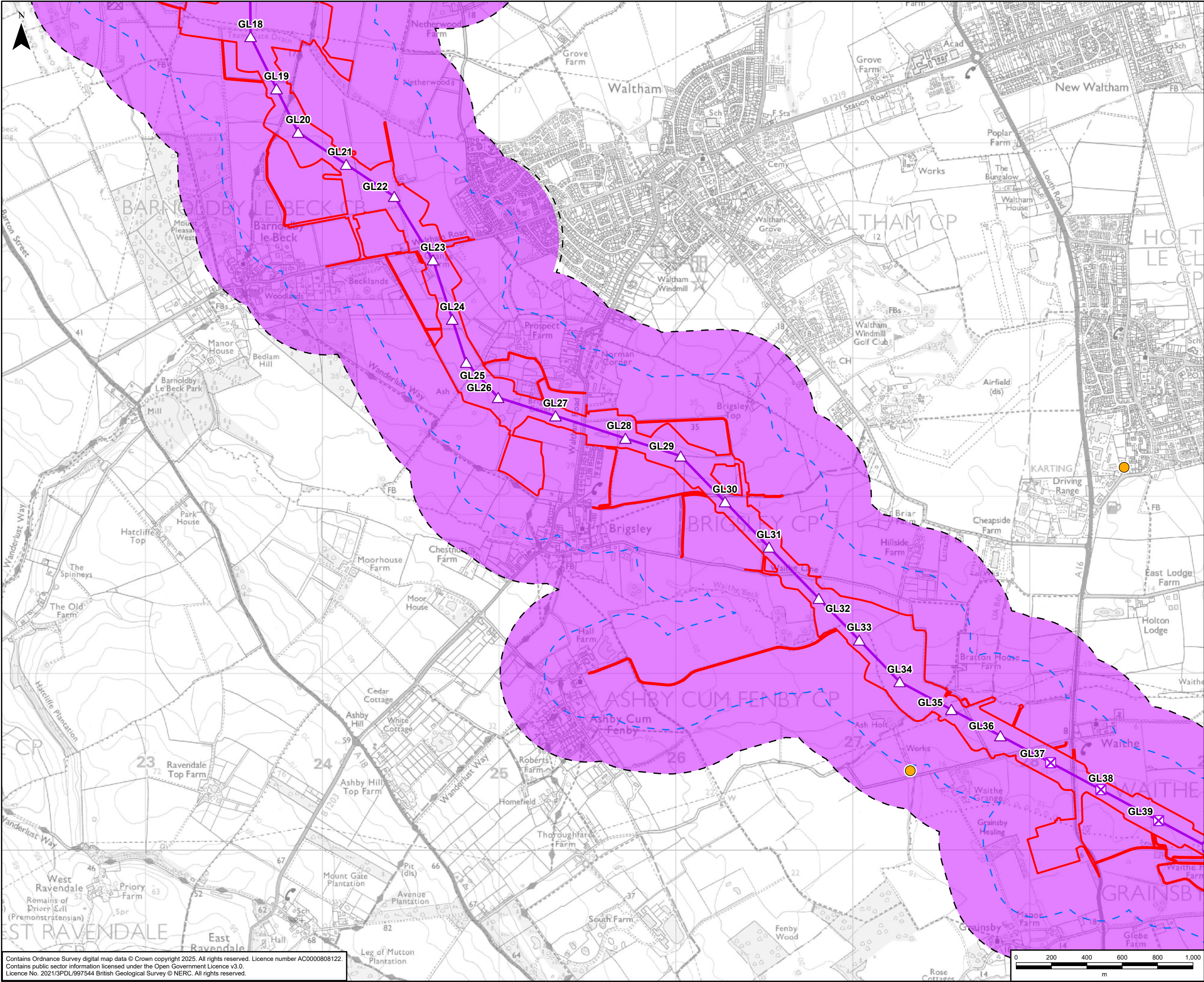
Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.6
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Private Water Supply Location

Aquifer Designation: Bedrock Geology

- Principal

NOTE:

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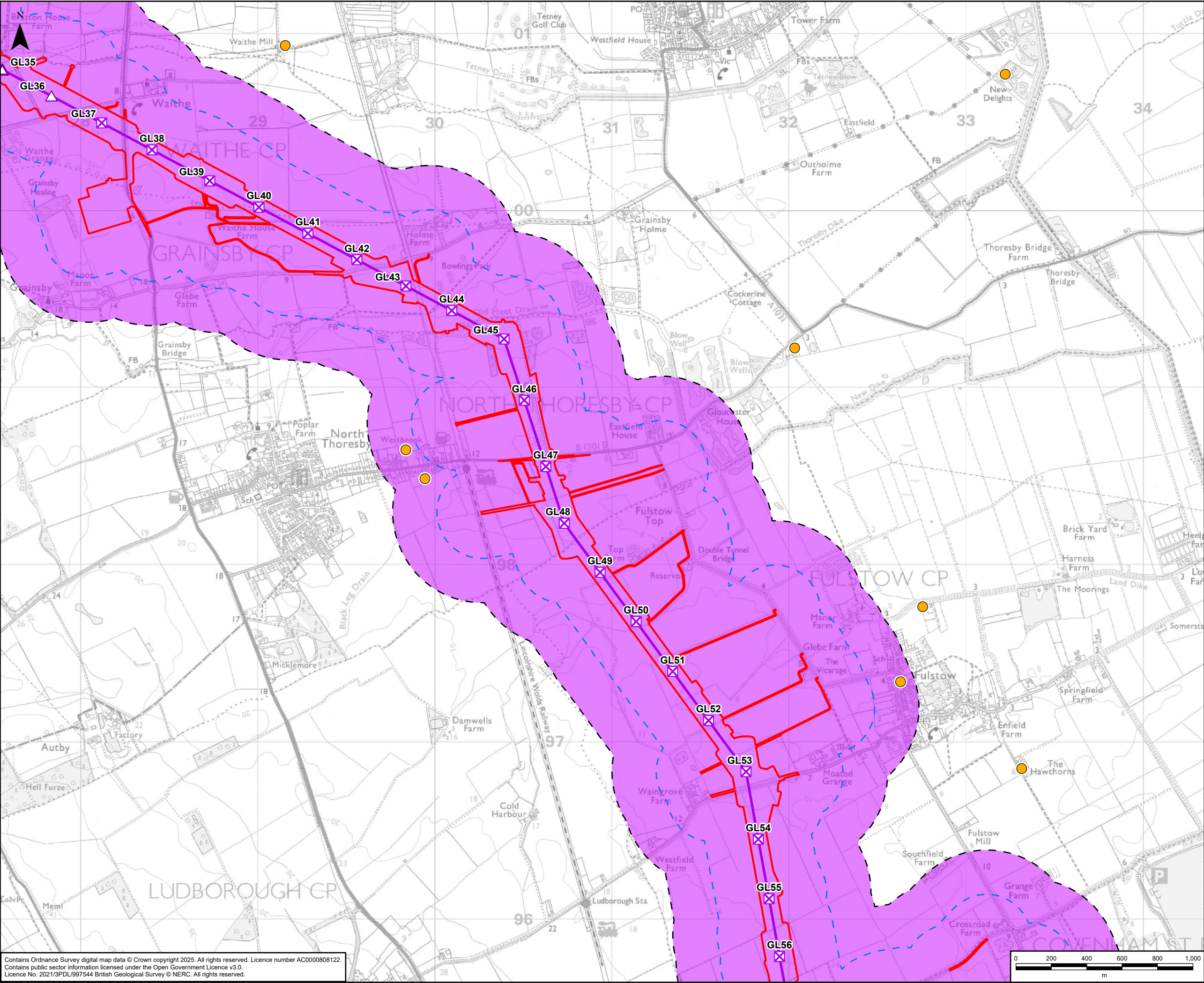
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Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.6
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Private Water Supply Location

Aquifer Designation: Bedrock Geology

- Principal

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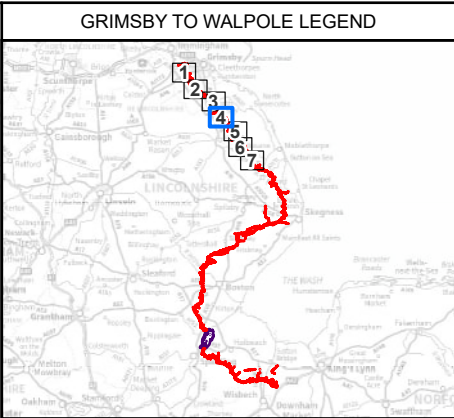
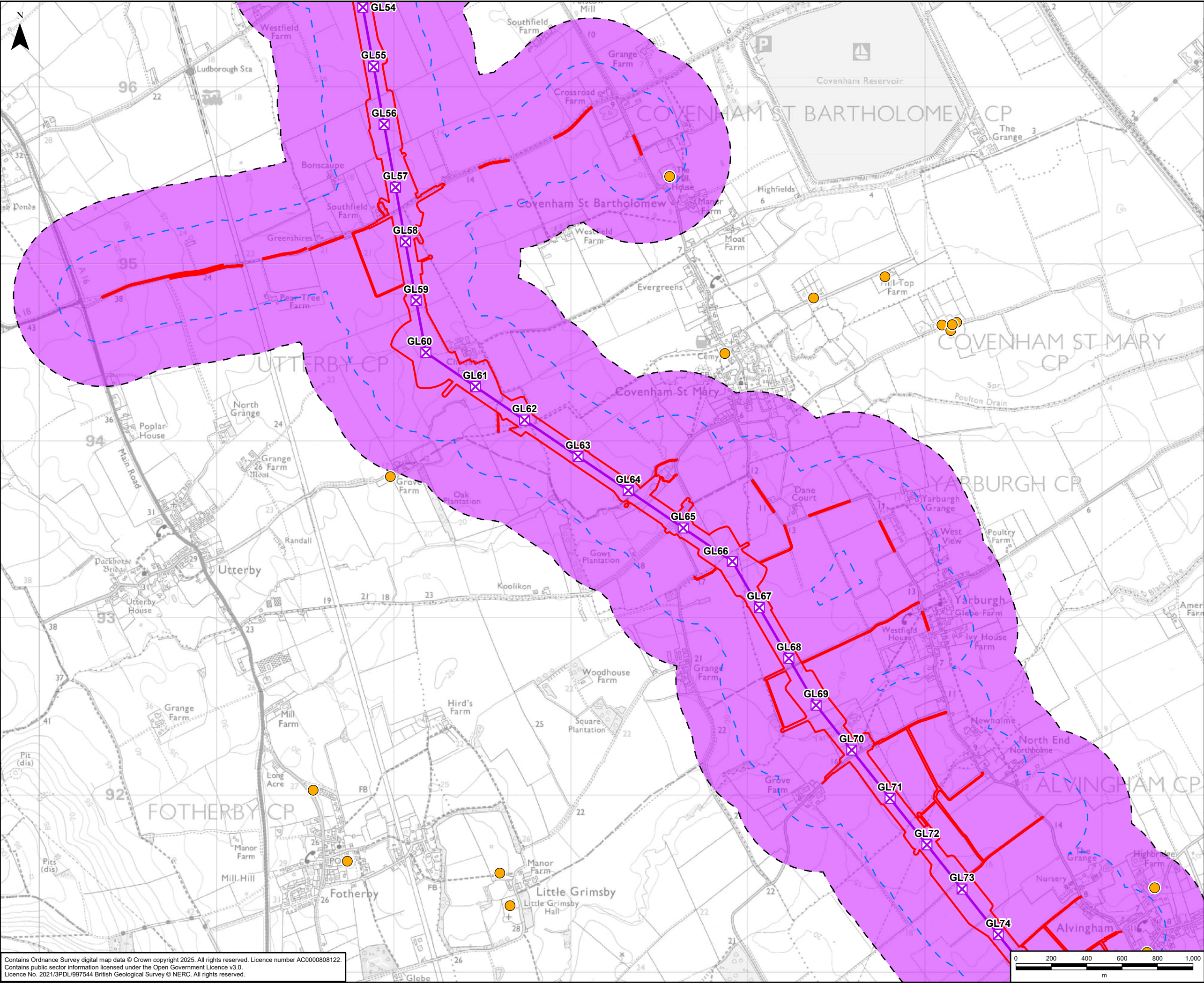
Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.6
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

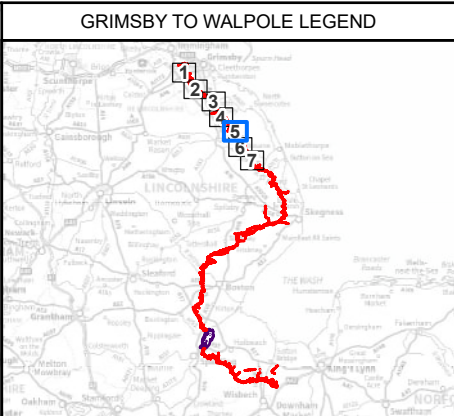
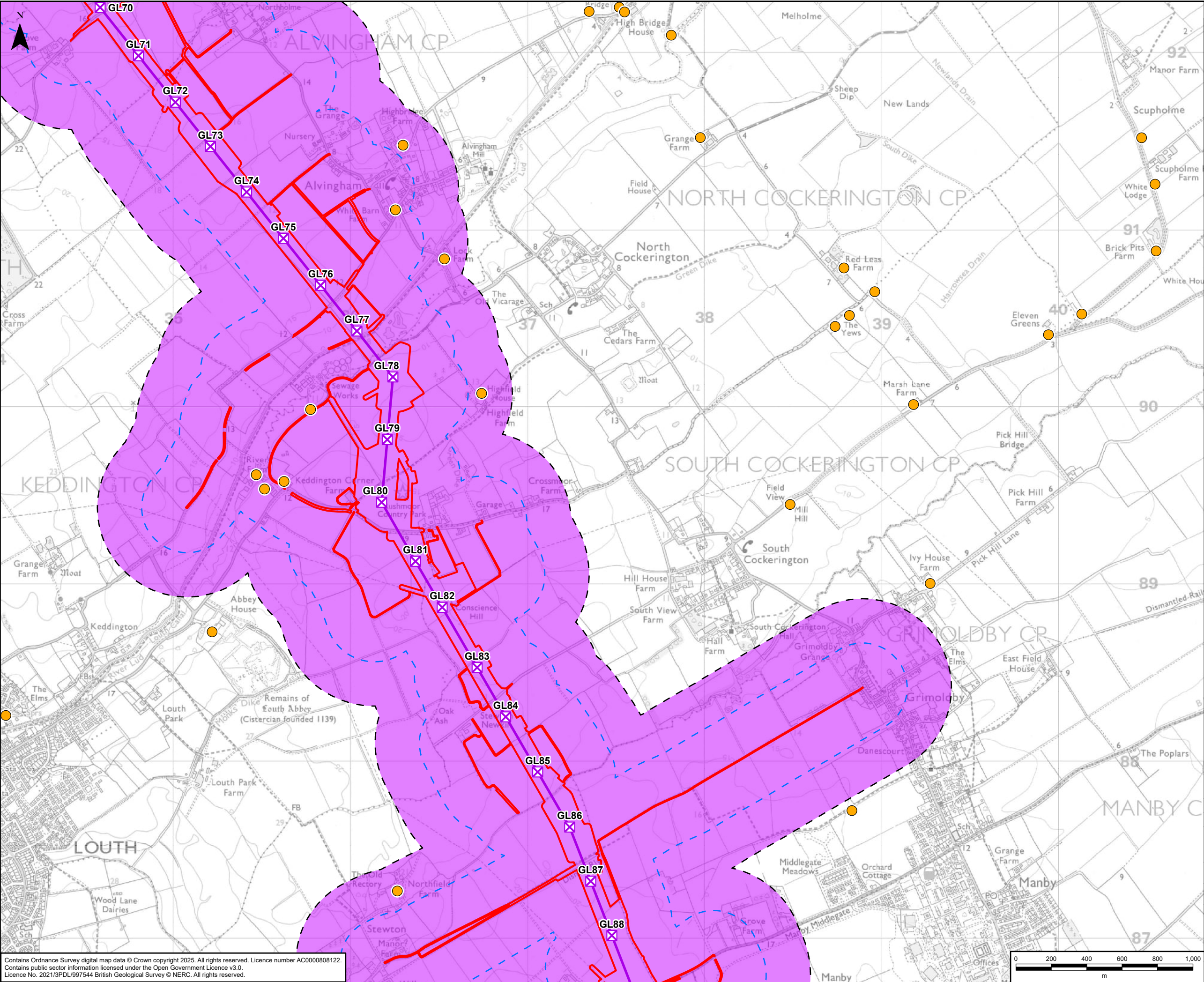
- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Private Water Supply Location
- Aquifer Designation: Bedrock Geology
- Principal

NOTE:
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Document Title:		FIGURE 7.6 AQUIFER DESIGNATIONS: BEDROCK GEOLOGY			
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- Legend
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
 - Private Water Supply Location
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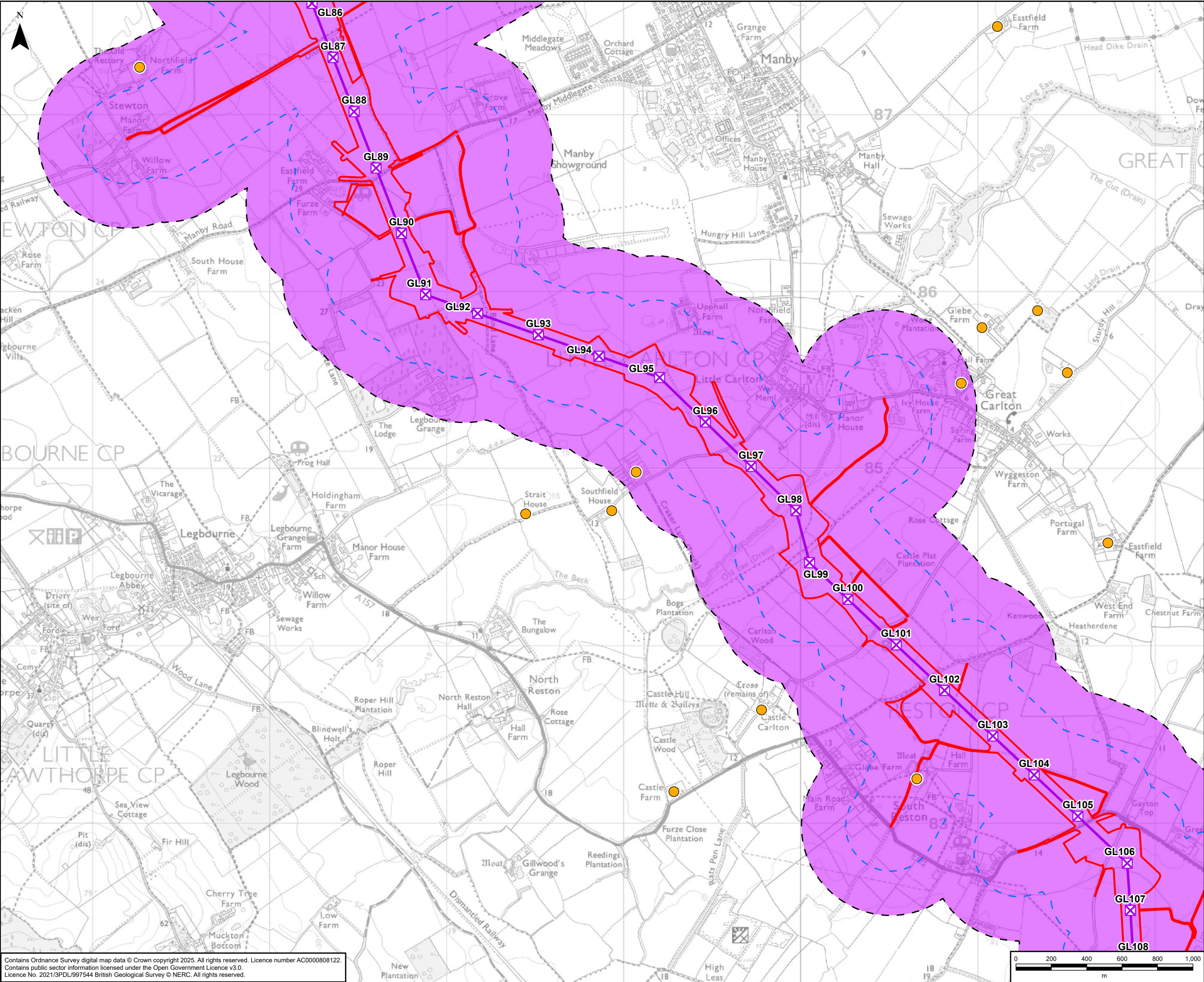
Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.6
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Private Water Supply Location
- Aquifer Designation: Bedrock Geology
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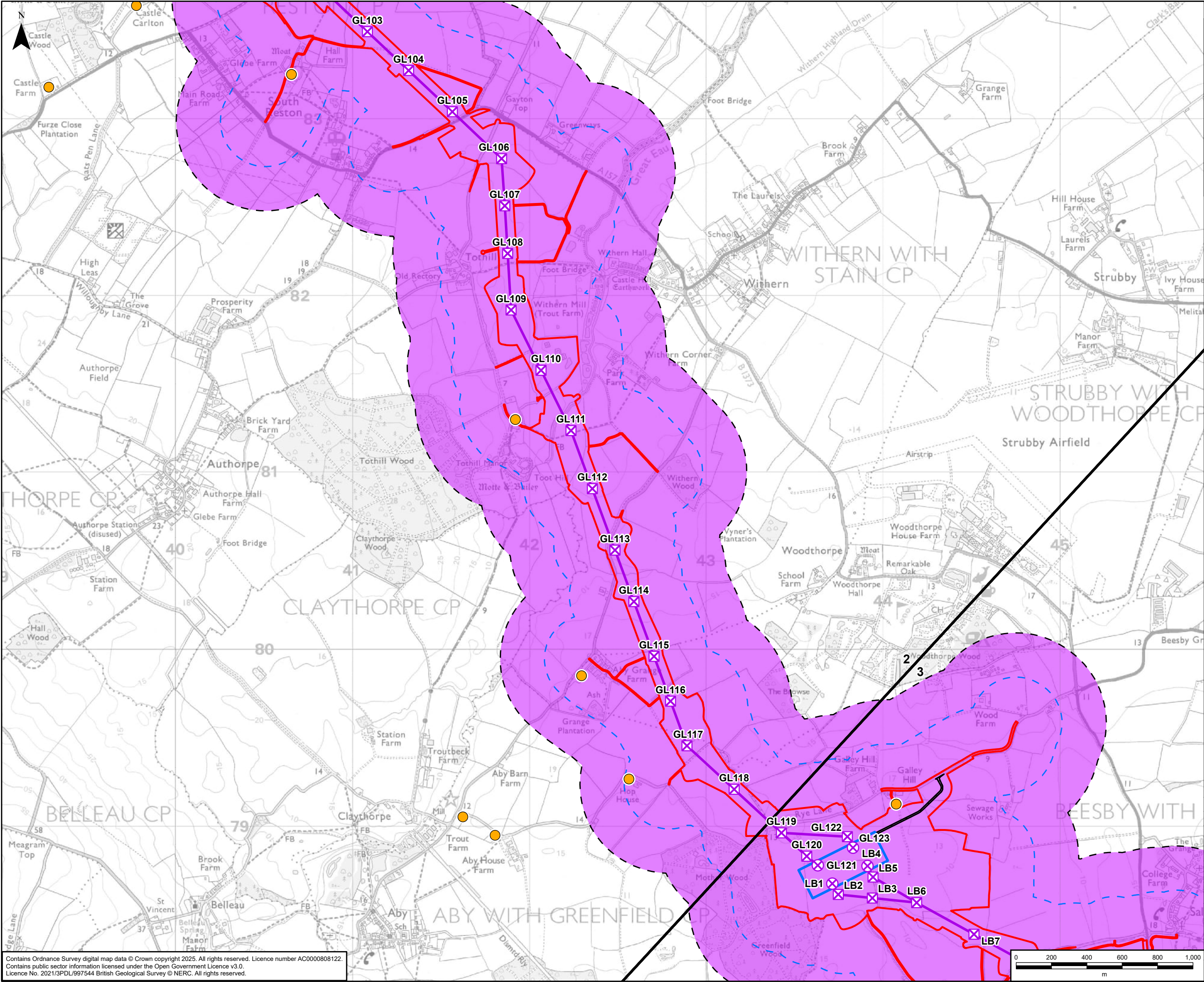
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Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.6**
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route
- Private Water Supply Location

Aquifer Designation: Bedrock Geology

- Principal

NOTE:
PWS - The abstracted unit is not known, and therefore may include abstractions from either superficial or bedrock geology.

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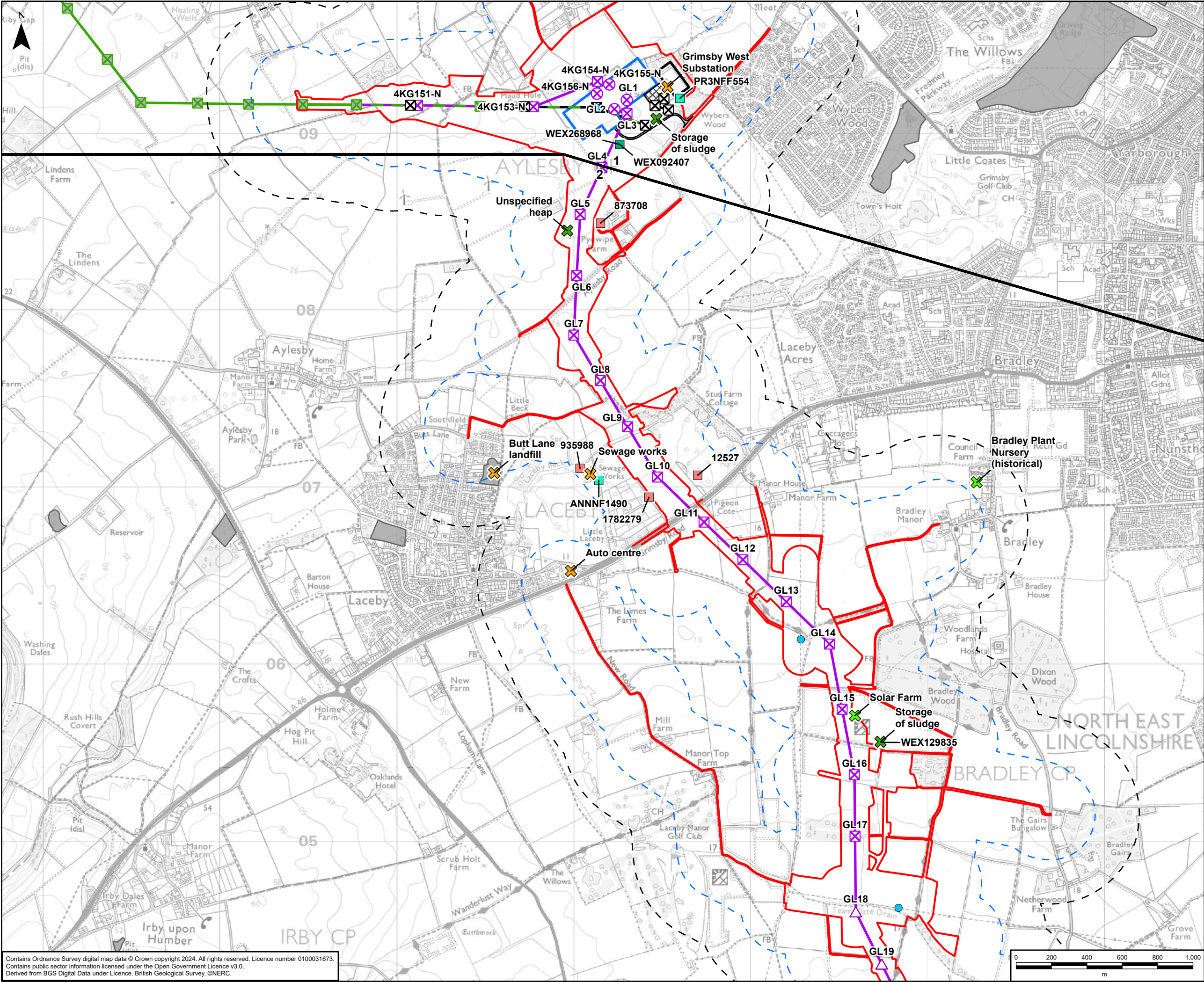
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Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.6**
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Existing Substation to be Demolished
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route
- Pollution Incident Location (EA)
- Discharge Consent Location (EA)
- Waste Exemption (EA)
- Recent Industrial Land Uses
- Surface Ground Workings
- Historic Landfill Site (EA)

Features of Contamination Potential

- Very Low
- Low
- Moderate

The potential contamination features shown on this drawing are represented by an indicative point location and not a polygon showing their extent. The extent of these features is discussed within the PEI Report where available/known.

LCC data sourced from the Lincolnshire Minerals and Waste Local Plan.
EA abstraction information has not been digitised as this is protected information.

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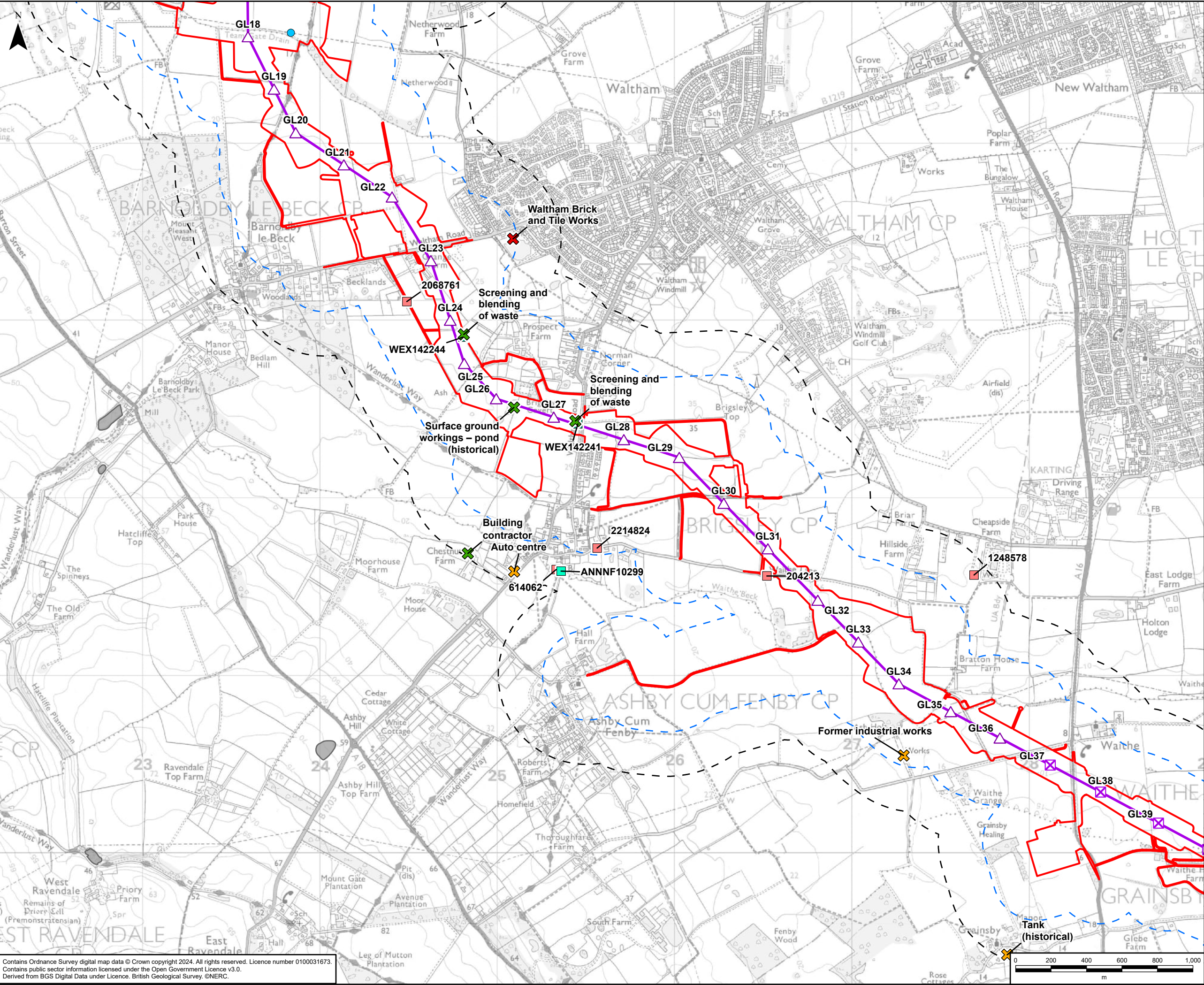
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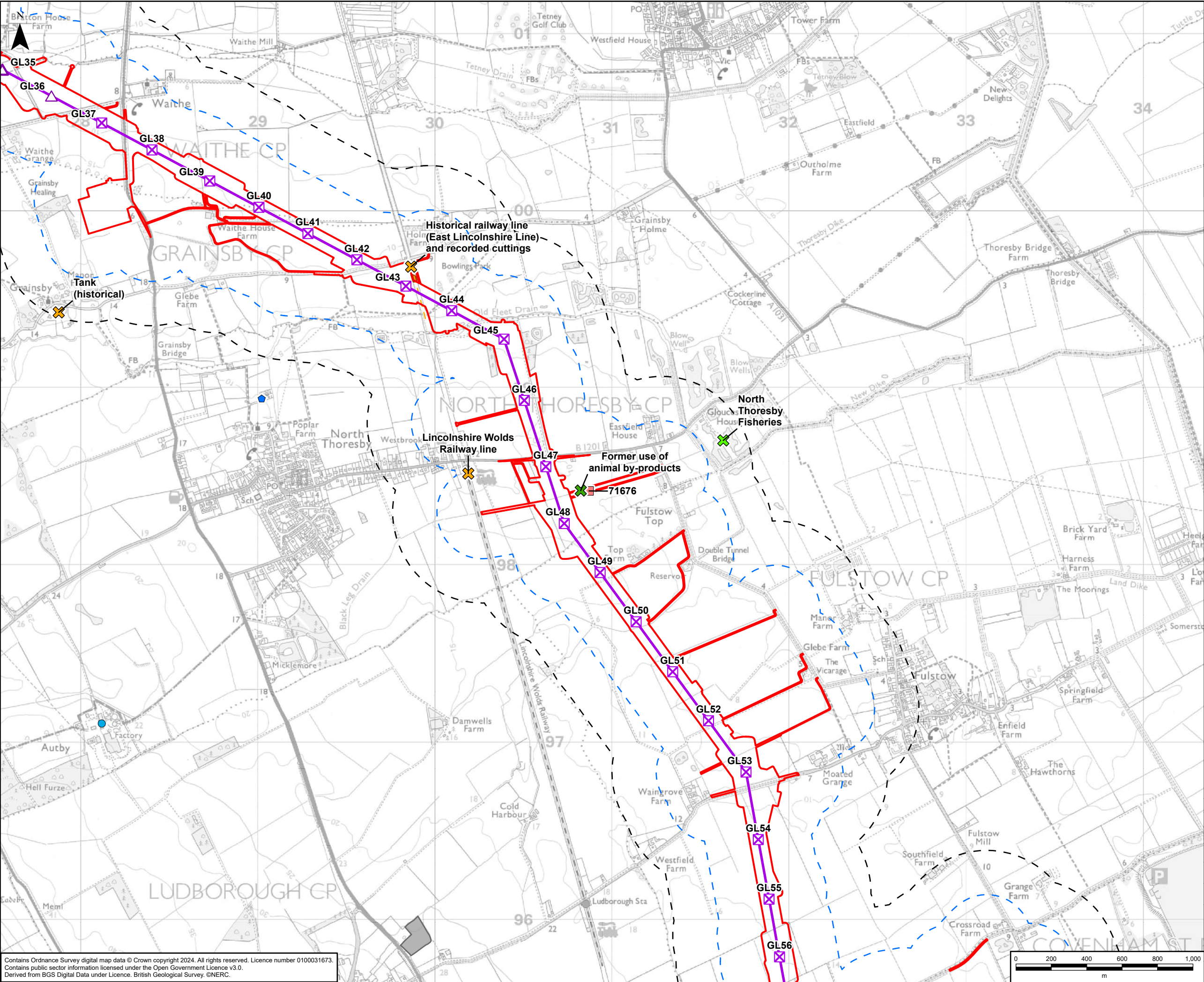
Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.7
LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES

Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Low Height Lattice Pylon
- Indicative New Overhead Line
- Pollution Incident Location (EA)
- Sewage Treatment Works (LCC)
- Lincolnshire Waste Site (LCC)
- Historical Railway
- Surface Ground Workings
- Historic Landfill Site (EA)

Features of Contamination Potential

- Very Low
- Low
- Moderate

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EA abstraction information has not been digitised as this is protected information.

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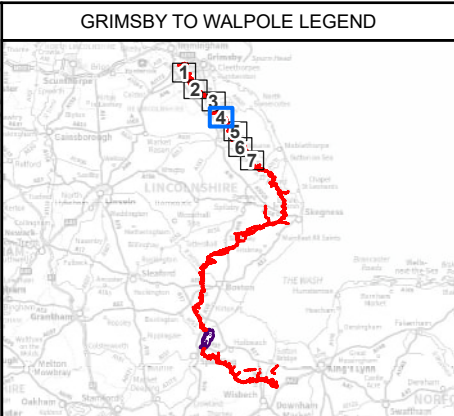
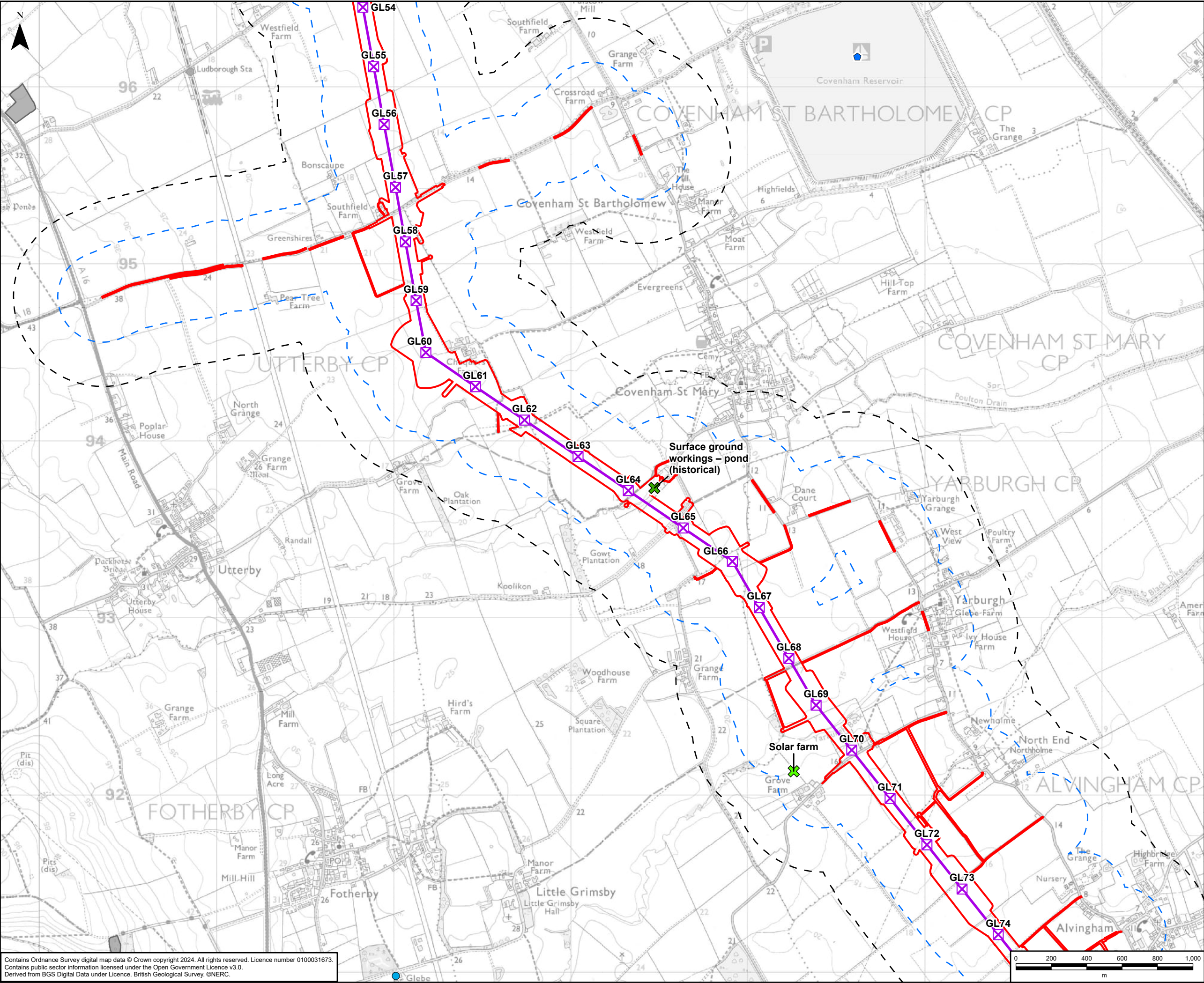
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Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.7
LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE
PREVIOUS LAND USES

Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
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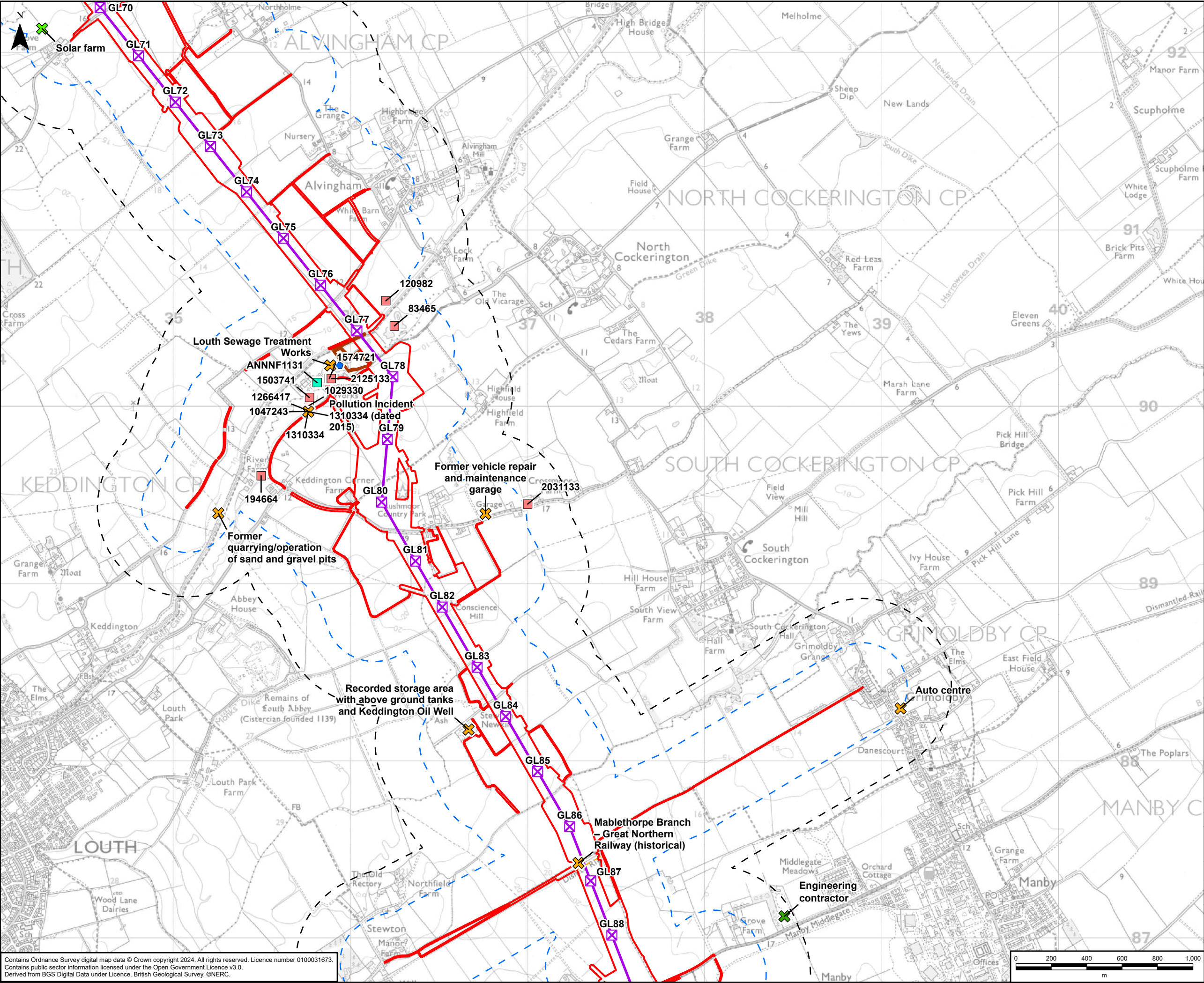
- Legend**
- Draft Order Limits
 - 250m Study Area
 - 500m Study Area
 - ✕ Indicative New Lattice Pylon
 - Indicative New Overhead Line
 - ▣ Sewage Treatment Works (LCC)
 - Lincolnshire Waste Site (LCC)
 - Surface Ground Workings
 - Historic Landfill Site (EA)
- Features of Contamination Potential**
- ✕ Very Low
 - ✕ Low

The potential contamination features shown on this drawing are represented by an indicative point location and not a polygon showing their extent. The extent of these features is discussed within the PEI Report where available/known.

LCC data sourced from the Lincolnshire Minerals and Waste Local Plan.
EA abstraction information has not been digitised as this is protected information.

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Scheme:		GRIMSBY TO WALPOLE			
Document Title:		FIGURE 7.7 LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES			
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Pollution Incident Location (EA)
- Discharge Consent Location (EA)
- Sewage Treatment Works (LCC)
- Mineral Site (LCC)
- Historical Railway
- Surface Ground Workings

Features of Contamination Potential

- Very Low
- Low
- Moderate

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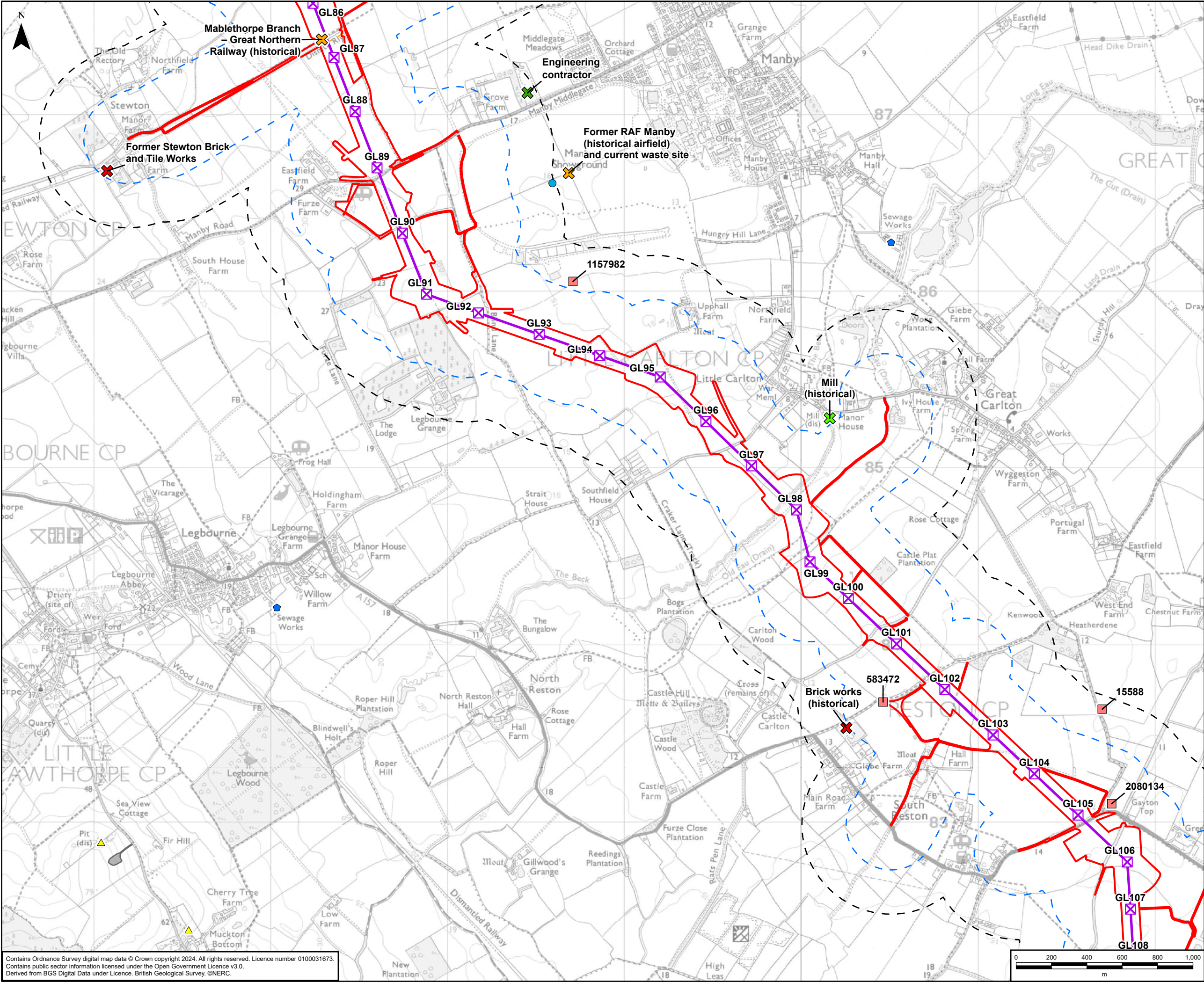
Purpose: PEI REPORT - SECTION 2

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.7
LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE
PREVIOUS LAND USES

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Pollution Incident Location (EA)
- Sewage Treatment Works (LCC)
- Lincolnshire Waste Site (LCC)
- Dormant Mineral Site (LCC)
- Historical Railway
- Historic Landfill Site (EA)

Features of Contamination Potential

- Very Low
- Low
- Moderate
- High

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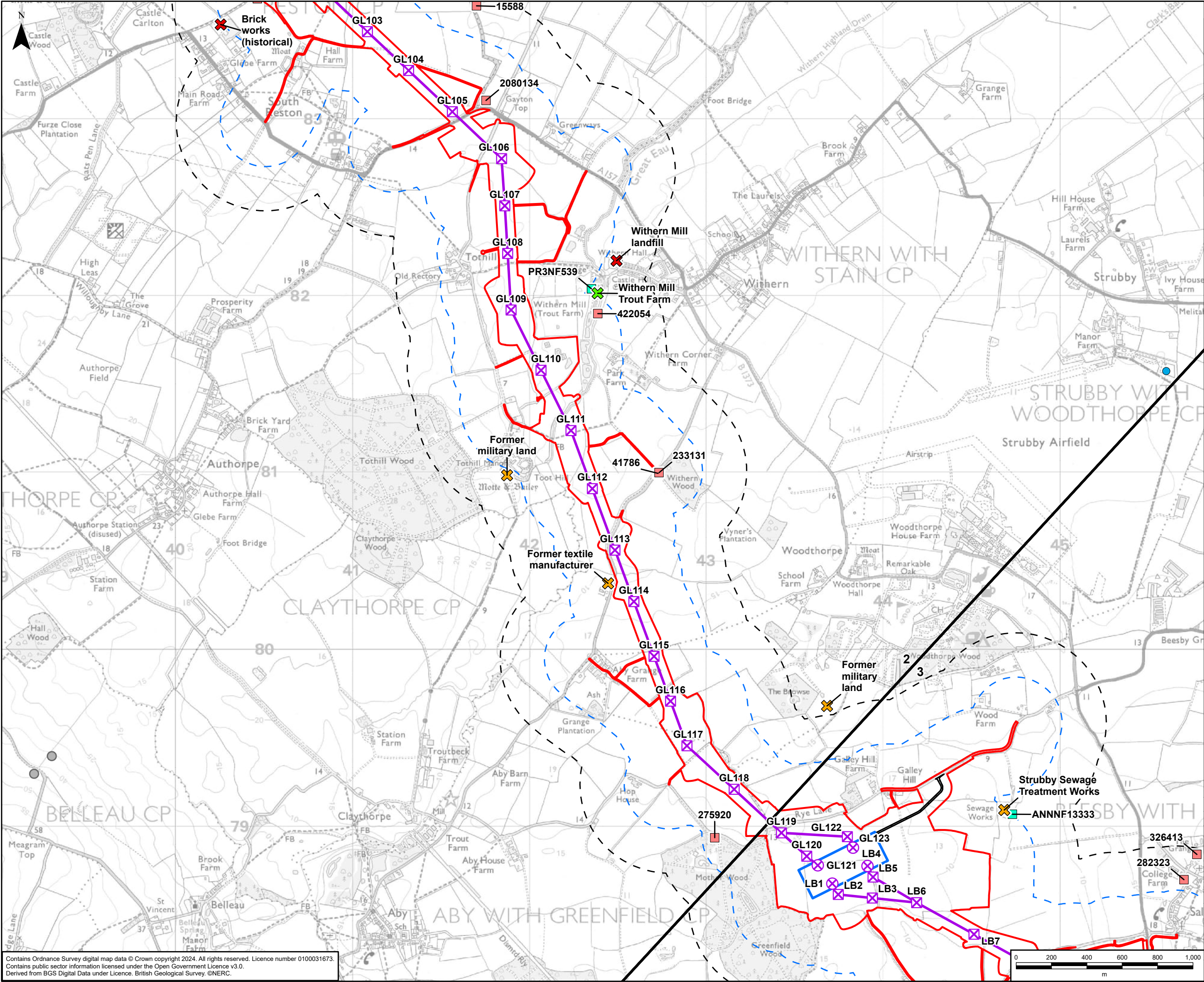
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LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE
PREVIOUS LAND USES

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
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- Indicative New Overhead Line
- Indicative New Substation Boundary
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- Pollution Incident Location (EA)
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- Lincolnshire Waste Site (LCC)
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Features of Contamination Potential

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