

The Great Grid Upgrade

Grimsby to Walpole

Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 6 Refined Weston Marsh Substation Siting Zone to New
Walpole B Substation

Chapter 10 Noise and Vibration

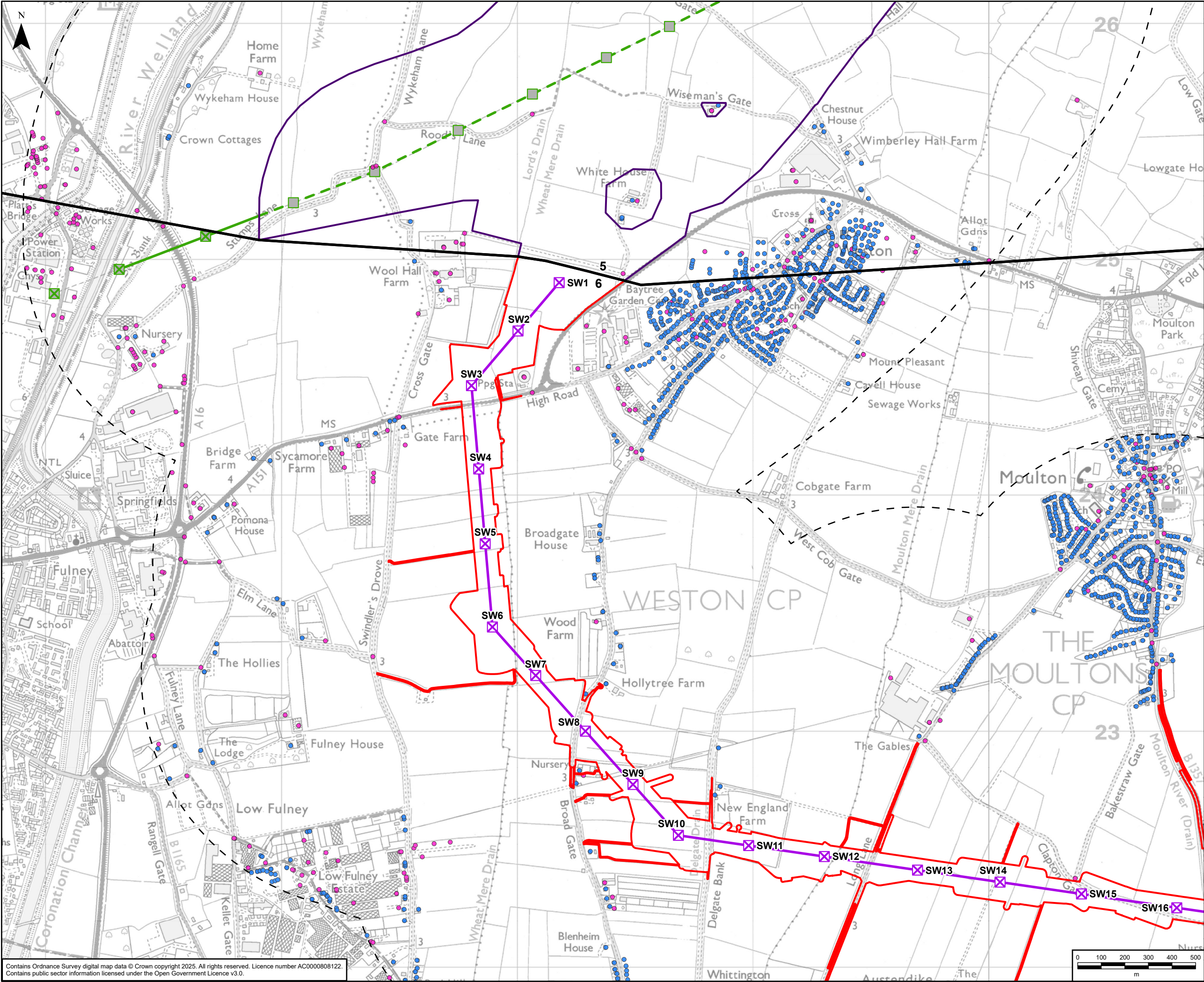
Figures

June 2025



Volume 2 Part B Section 6 Chapter 10 – Figure List

Figure number	Figure title
Figure 10.1	Noise and Vibration Study Area
Figure 10.2	Noise and Vibration Baseline
Figure 10.3	Initial Construction Noise Assessment Outputs
Figure 10.4	Initial Construction Vibration Assessment Outputs



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

Address Data

- Residential
- Non-Residential

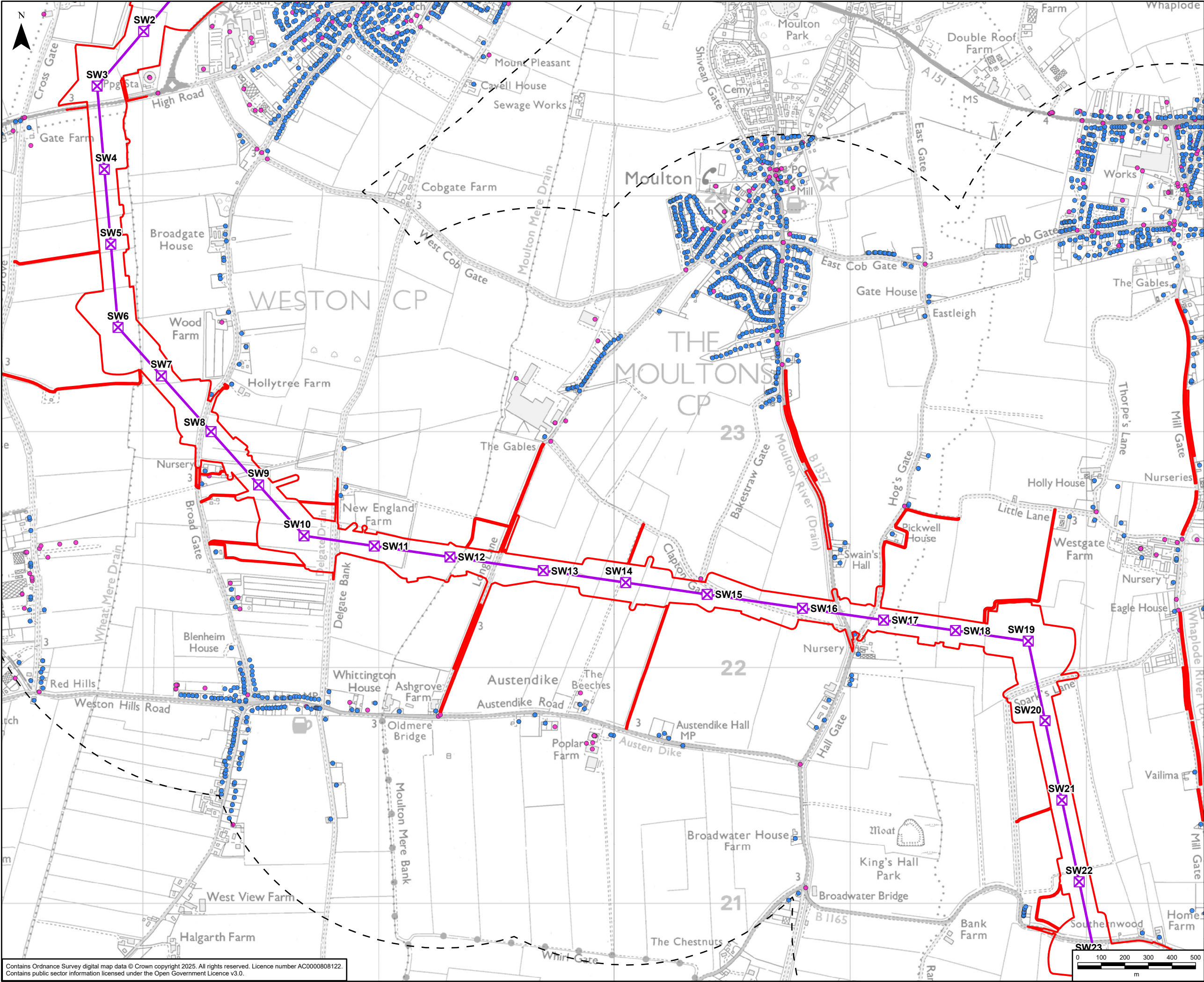
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Purpose:	PEI REPORT - SECTION 6
Scheme:	GRIMSBY TO WALPOLE
Document Title:	FIGURE 10.1 NOISE AND VIBRATION STUDY AREA

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LC	09/05/2025	DG	09/05/2025	DR	09/05/2025

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FIGURE	1:15,000	A3	1 OF 10	A

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- X Indicative New Lattice Pylon
- Indicative New Overhead Line

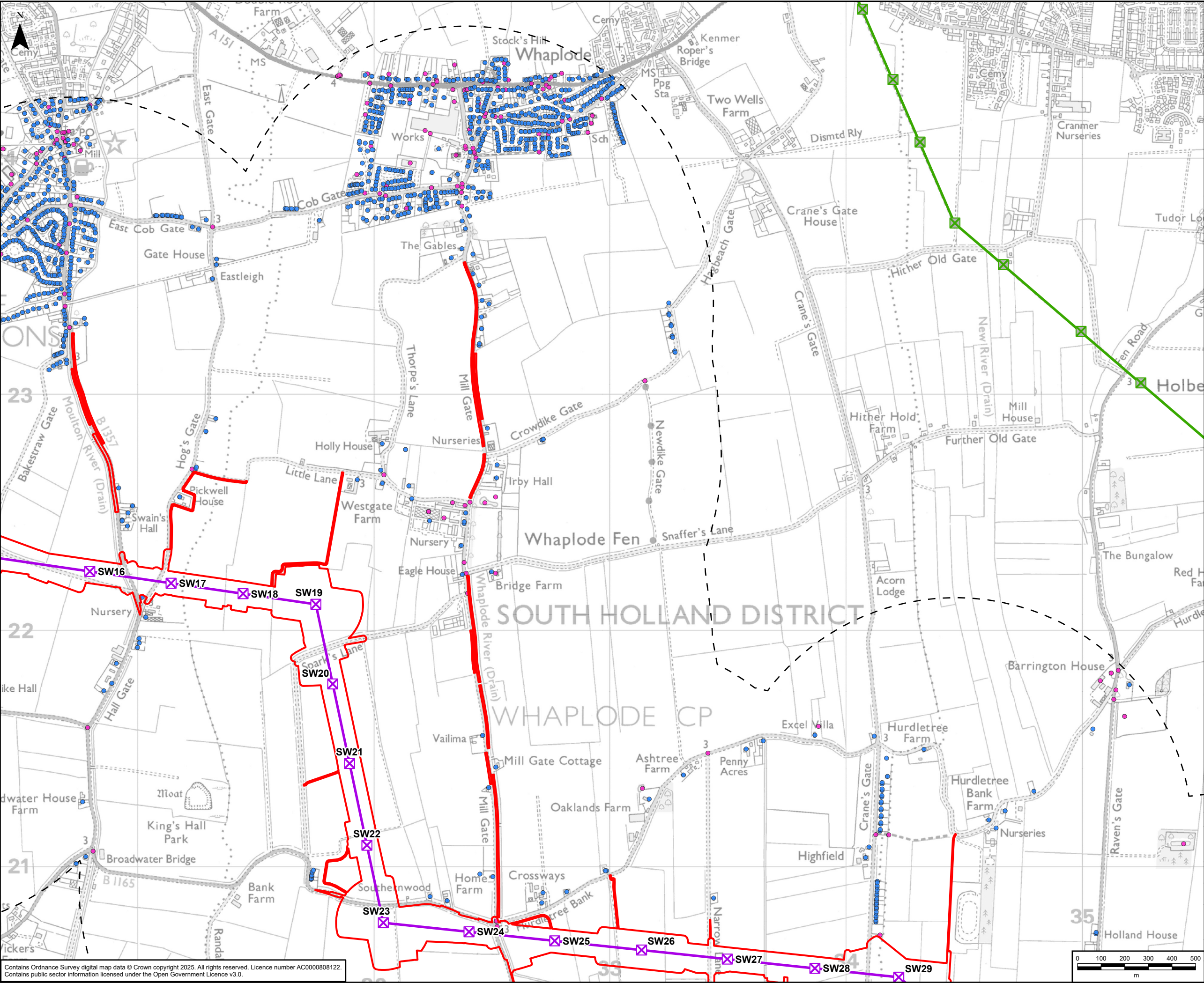
Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Address Data

- Residential
- Non-Residential

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nationalgrid

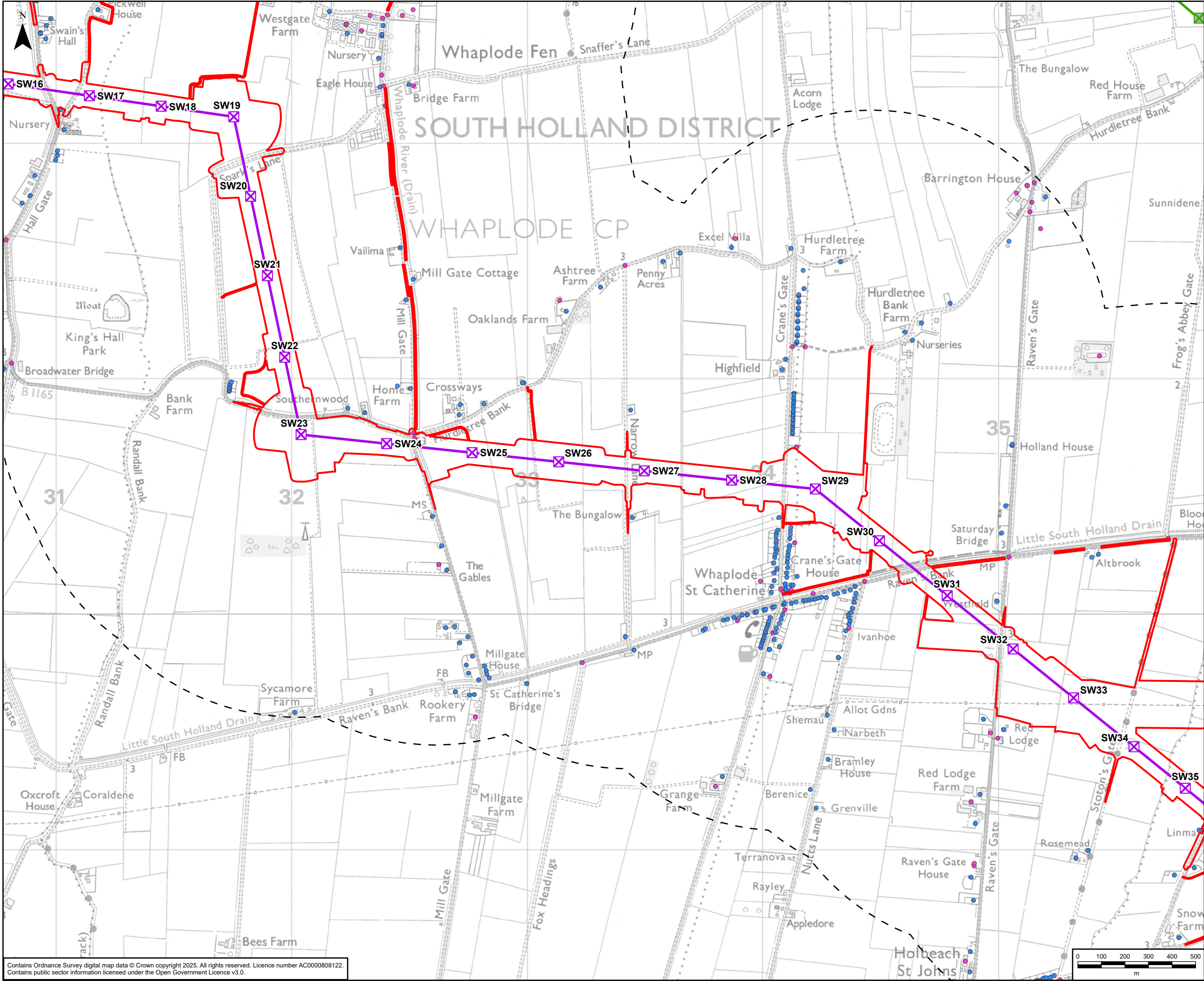
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- X Indicative New Lattice Pylon
- X Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Address Data

- Residential
- Non-Residential

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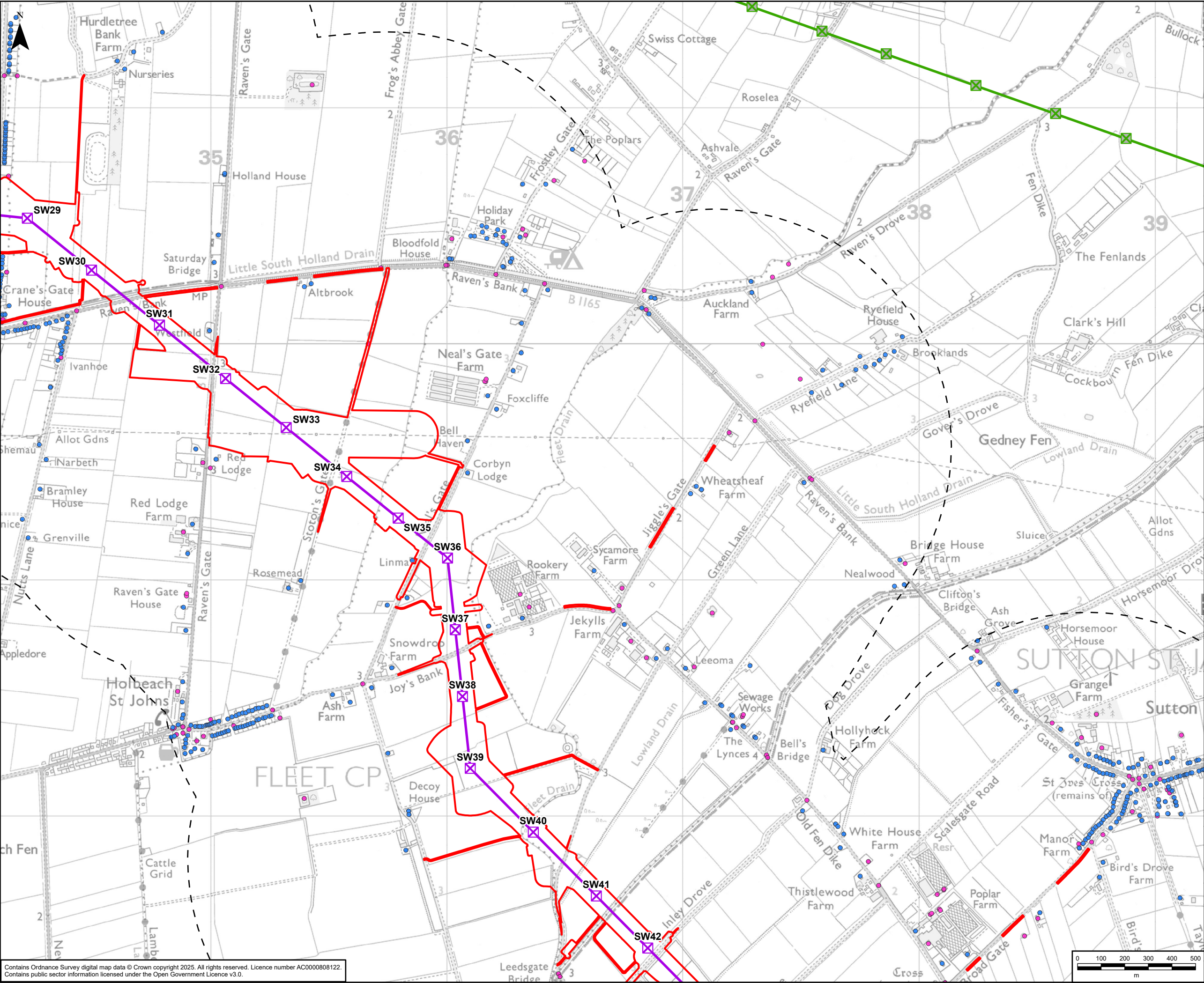
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

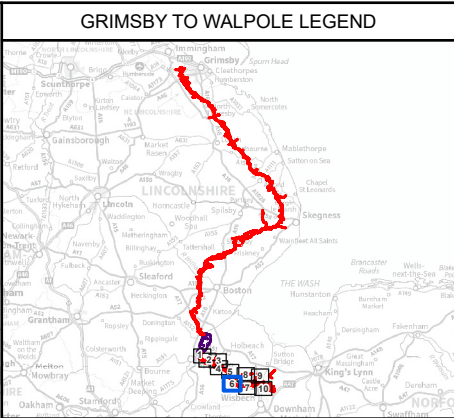
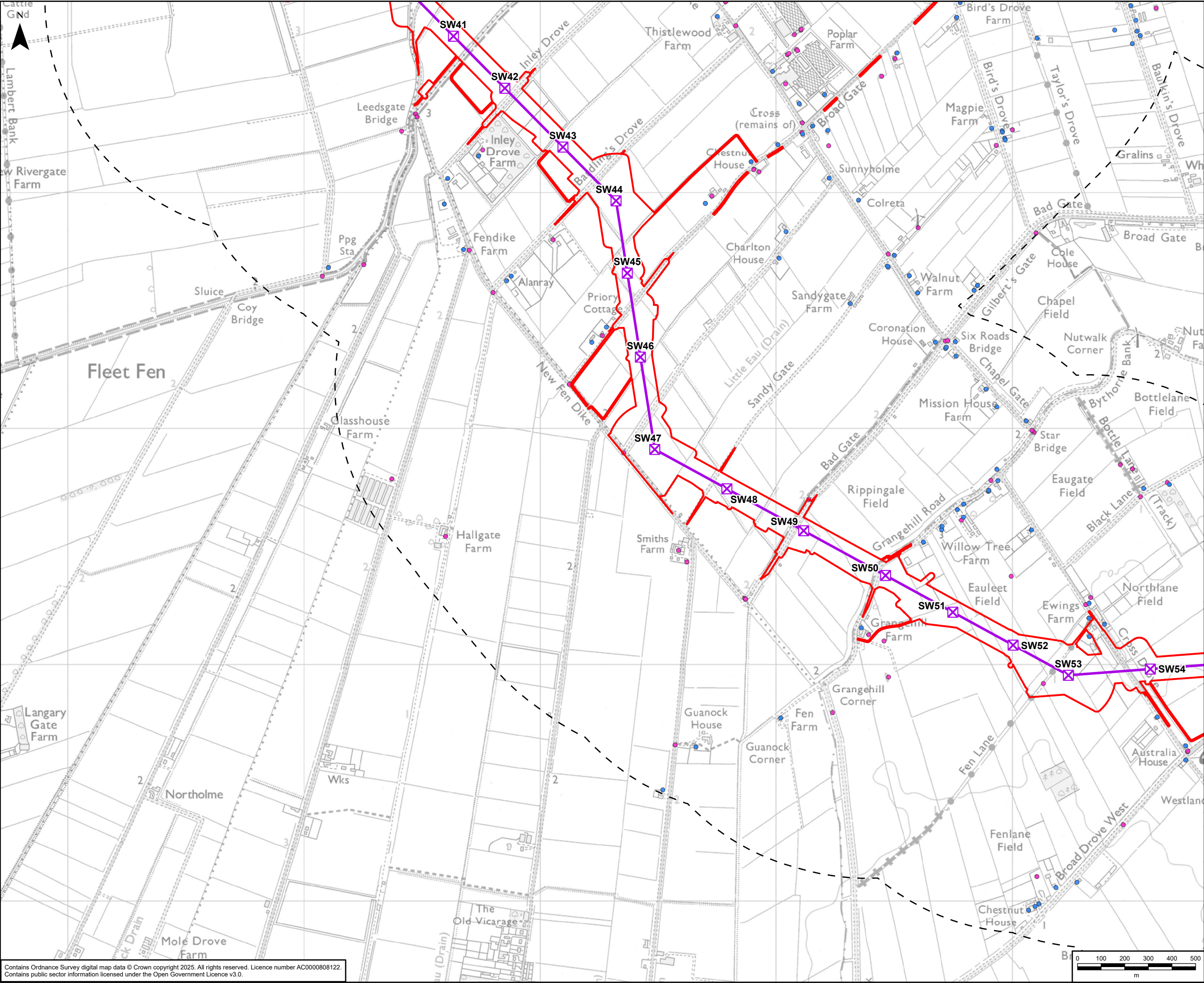
Address Data

- Residential
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- Draft Order Limits
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line

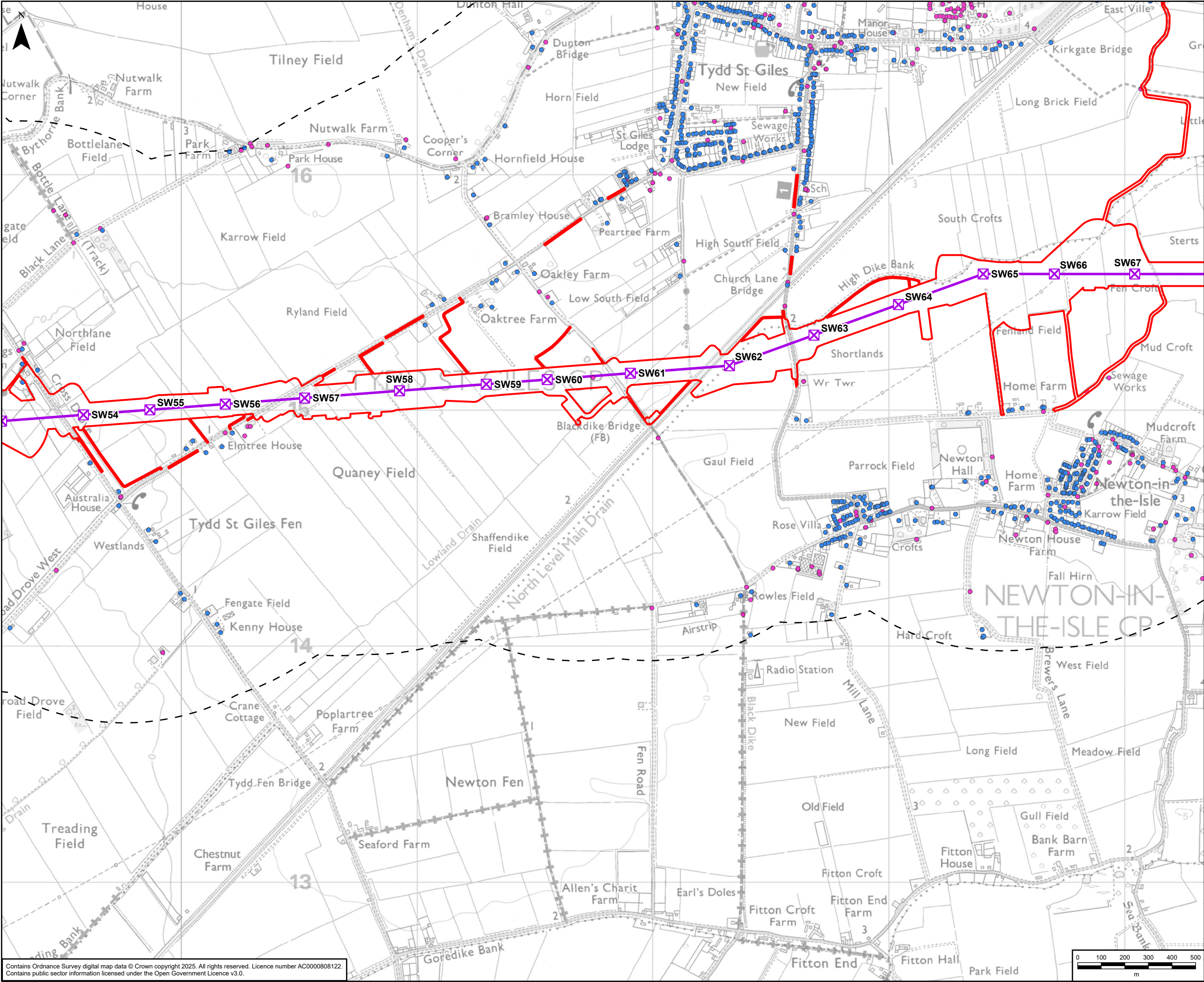
Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- 1km Study Area
- ✕ Indicative New Lattice Pylon
- Indicative New Overhead Line

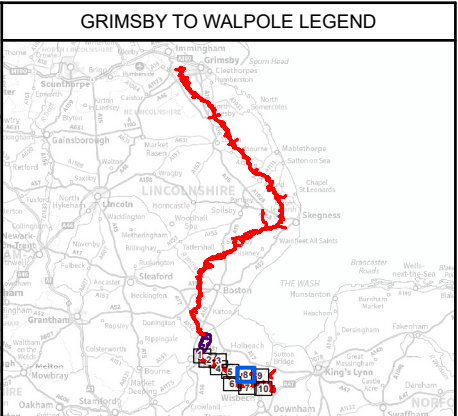
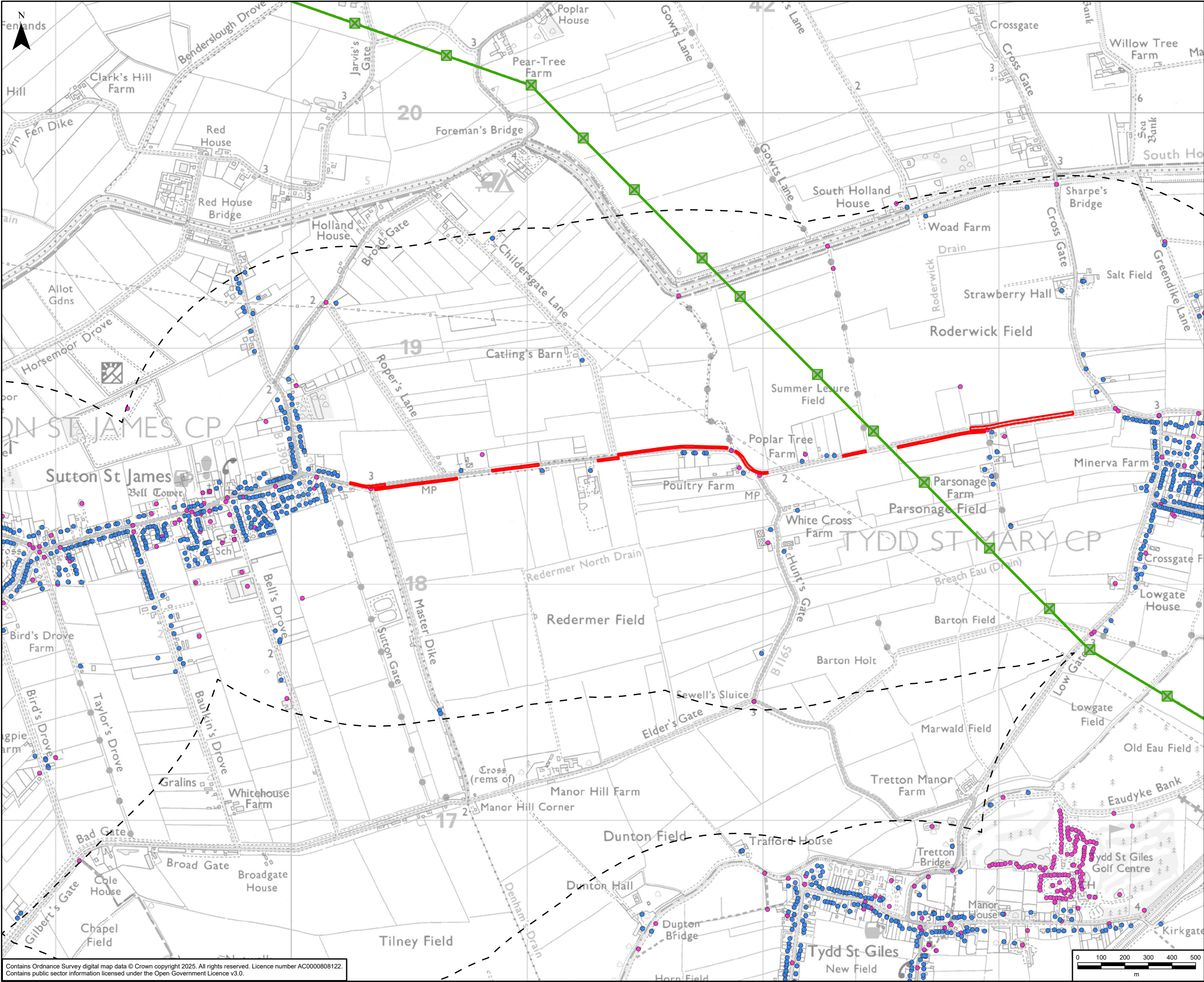
Address Data

- Residential
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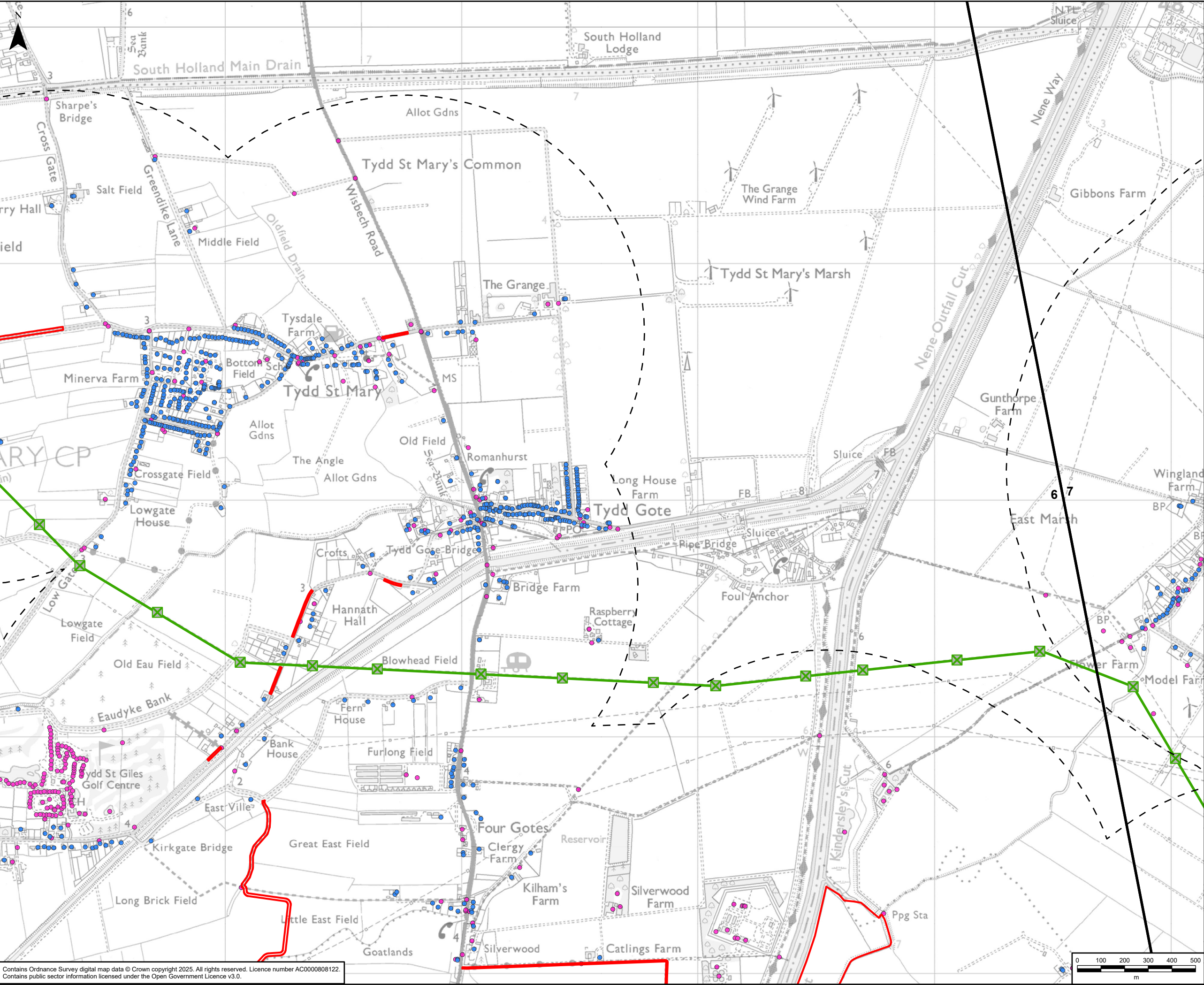
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- 1km Study Area
- X Existing Lattice Pylon - Not Affected
- Existing Overhead Line - Not Affected

Address Data

- Residential
- Non-Residential

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 1km Study Area
- ✕ Existing Lattice Pylon - Not Affected
- Existing Overhead Line - Not Affected

Address Data

- Residential
- Non-Residential

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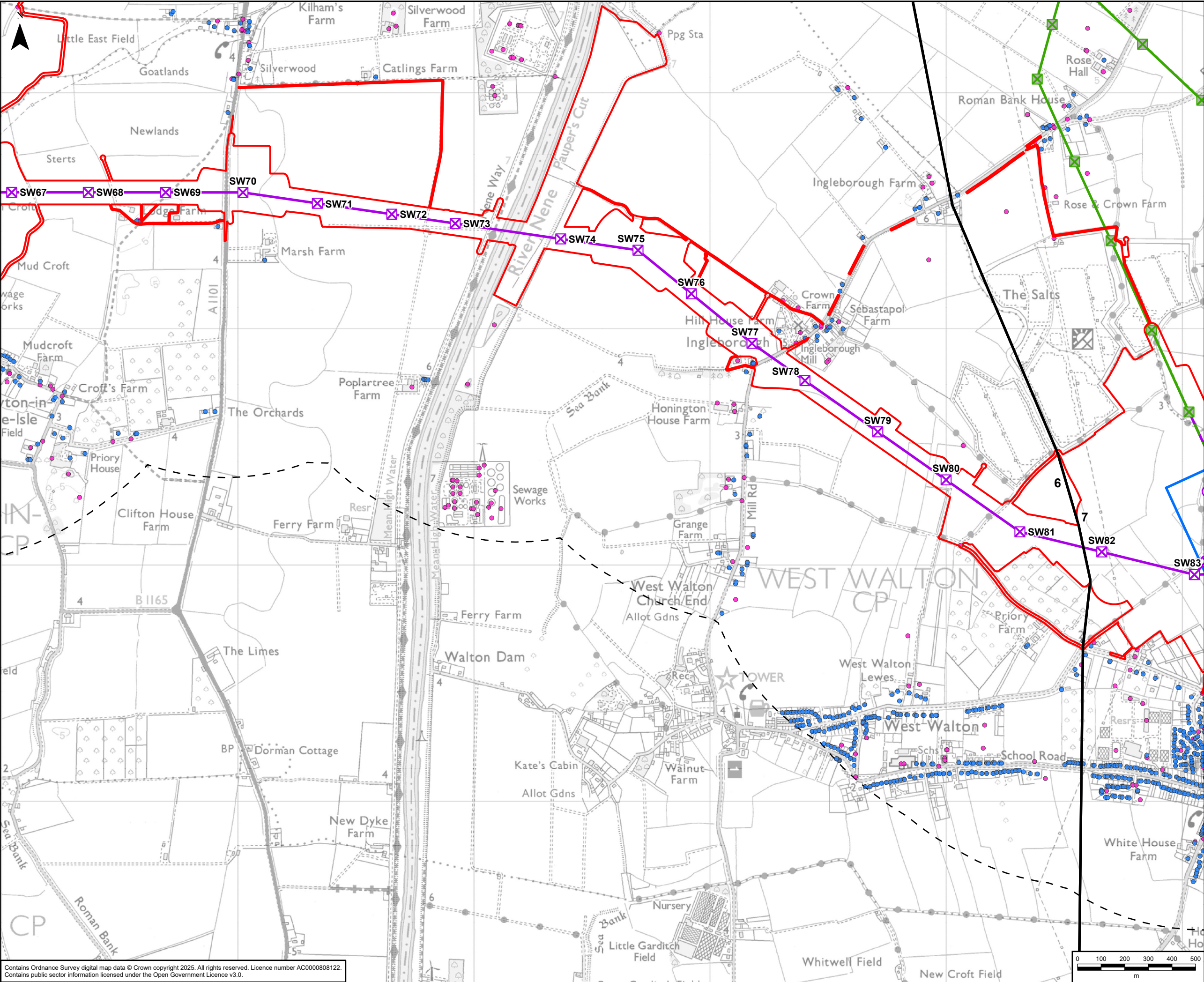
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Indicative New Substation Boundary

Address Data

- Residential
- Non-Residential

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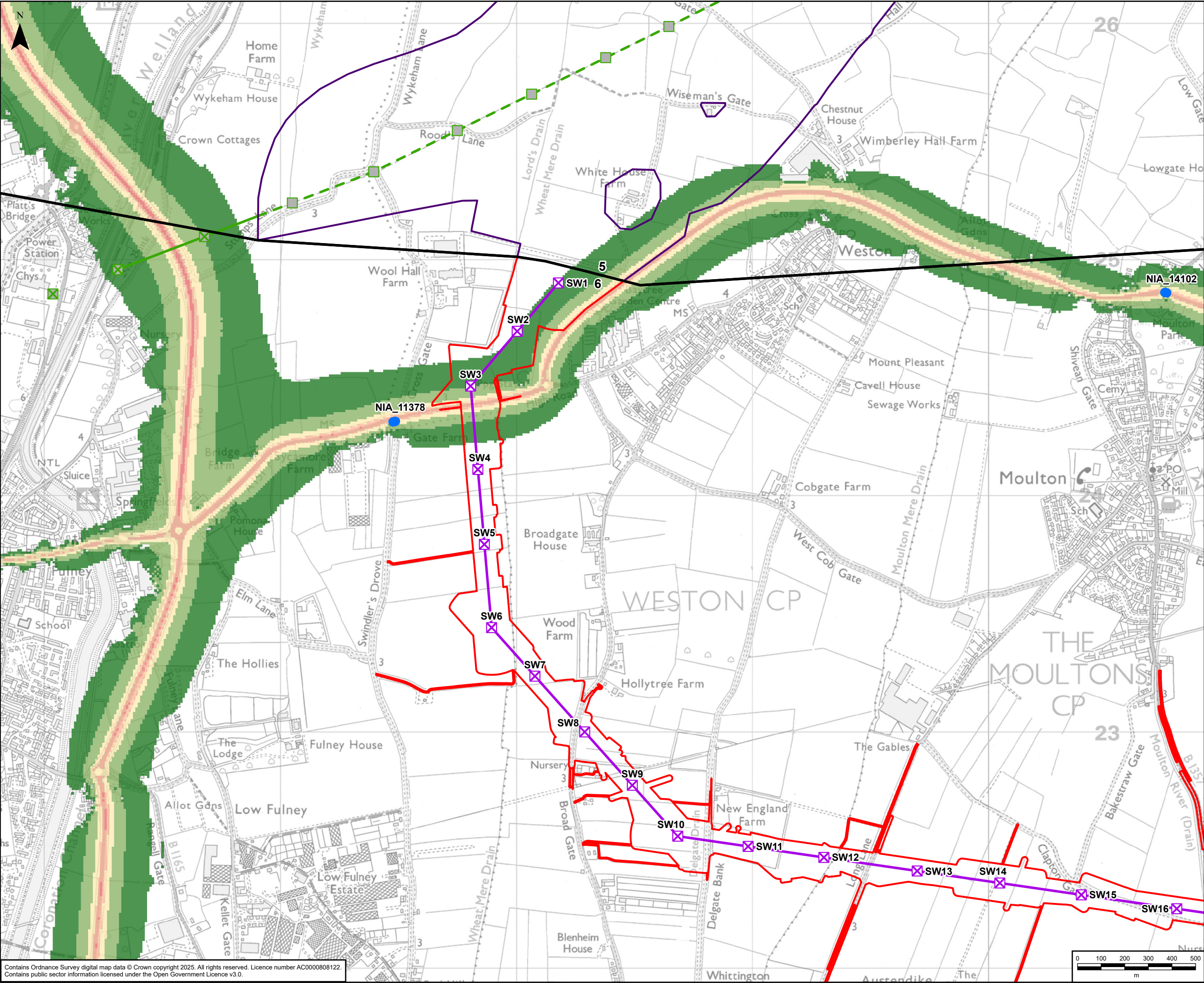
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified
- Noise Important Area

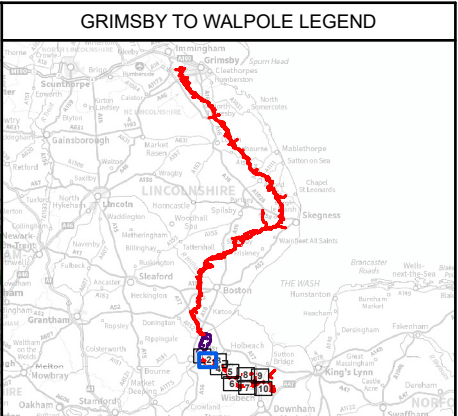
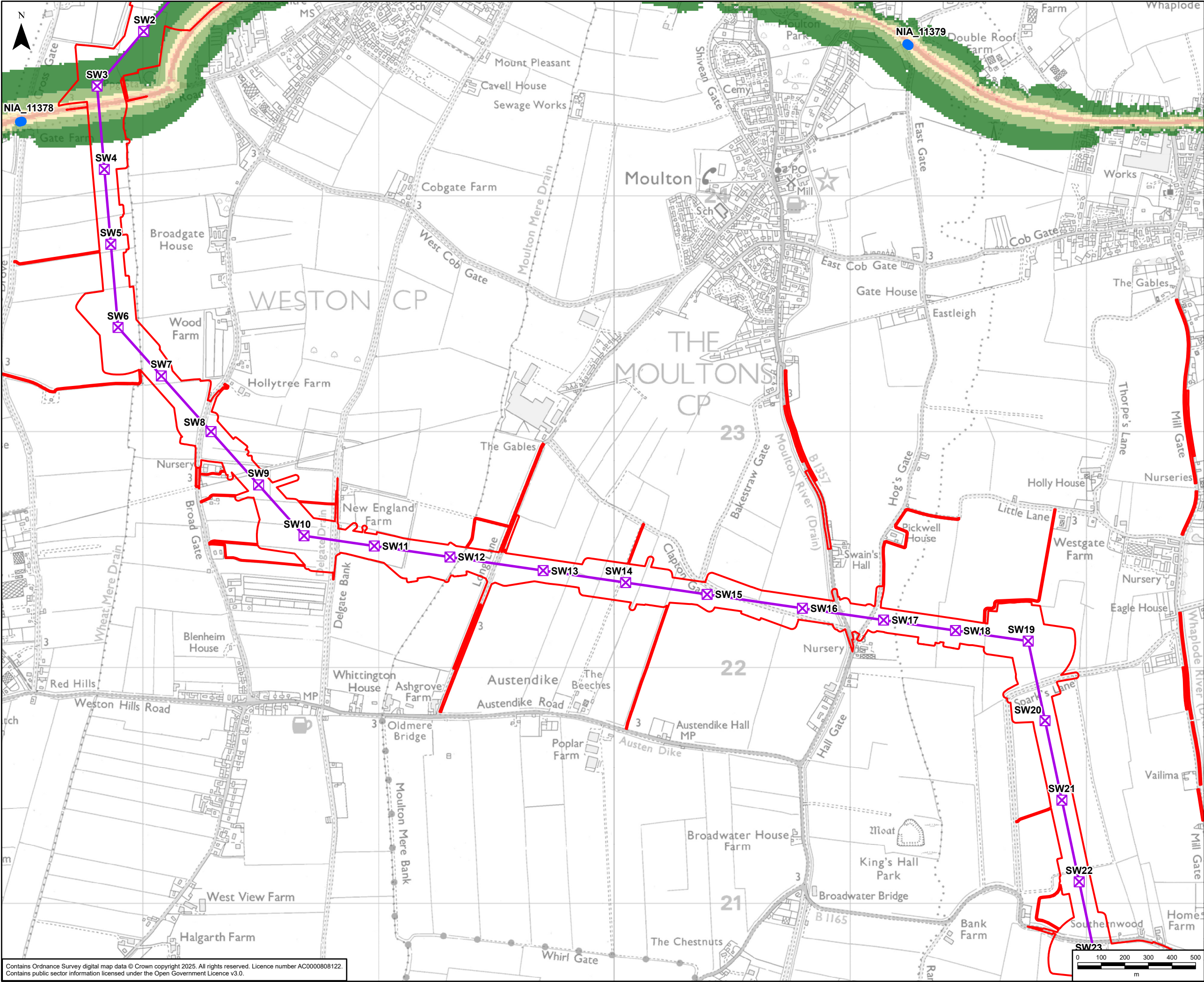
Defra Noise Data (Road) - dBA

- >=75.0
- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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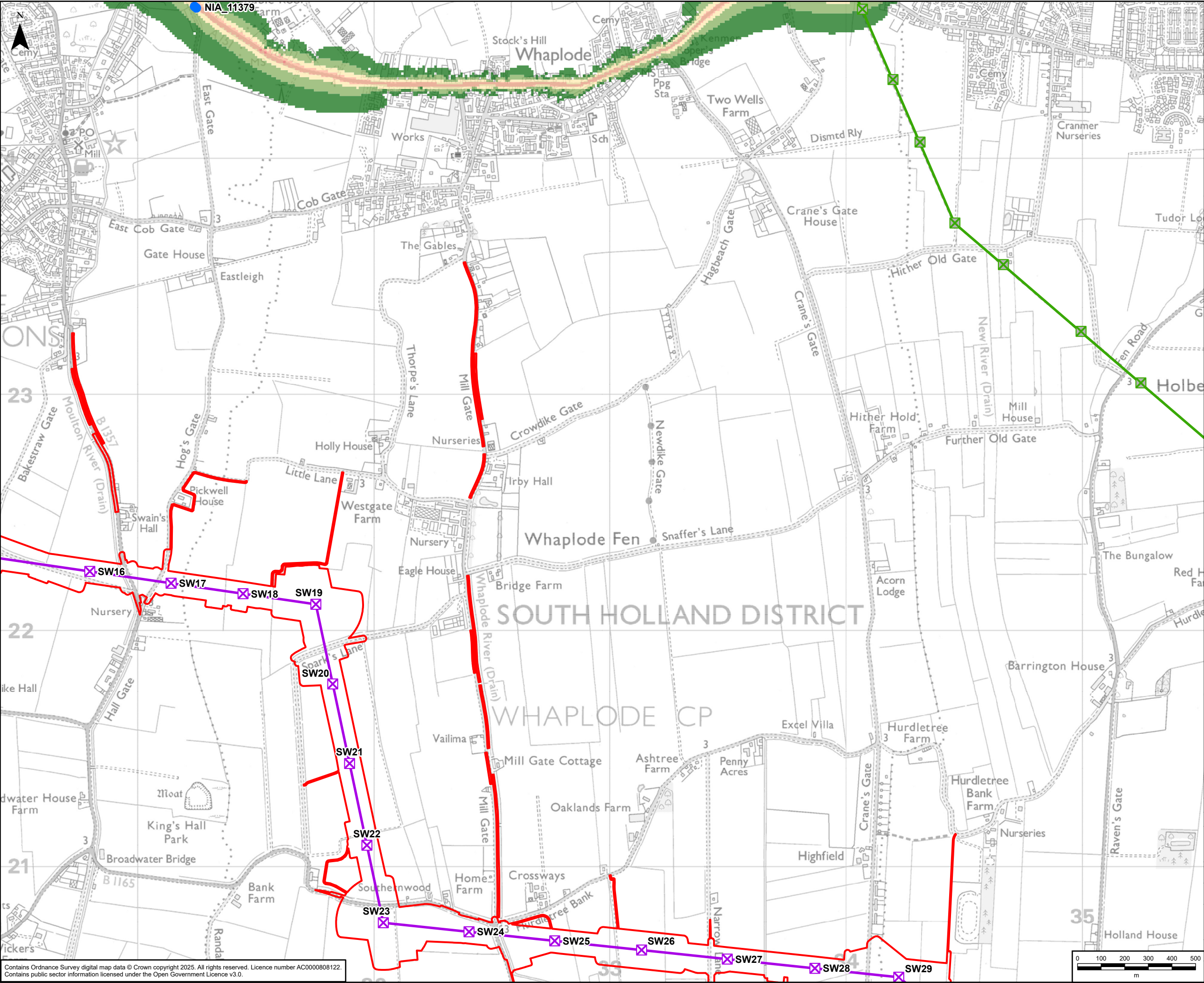


Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Noise Important Area
- Defra Noise Data (Road) - dBA
 - >=75.0
 - 70.0-74.9
 - 65.0-69.9
 - 60.0-64.9
 - 55.0-59.9

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Noise Important Area

Defra Noise Data (Road) - dBA

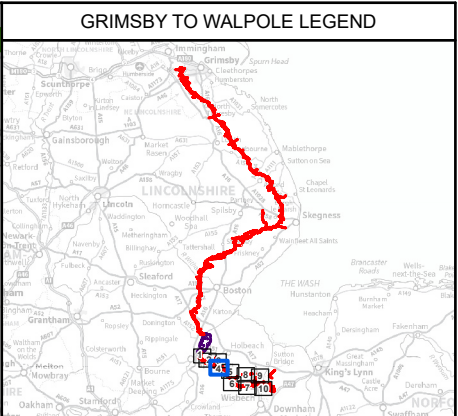
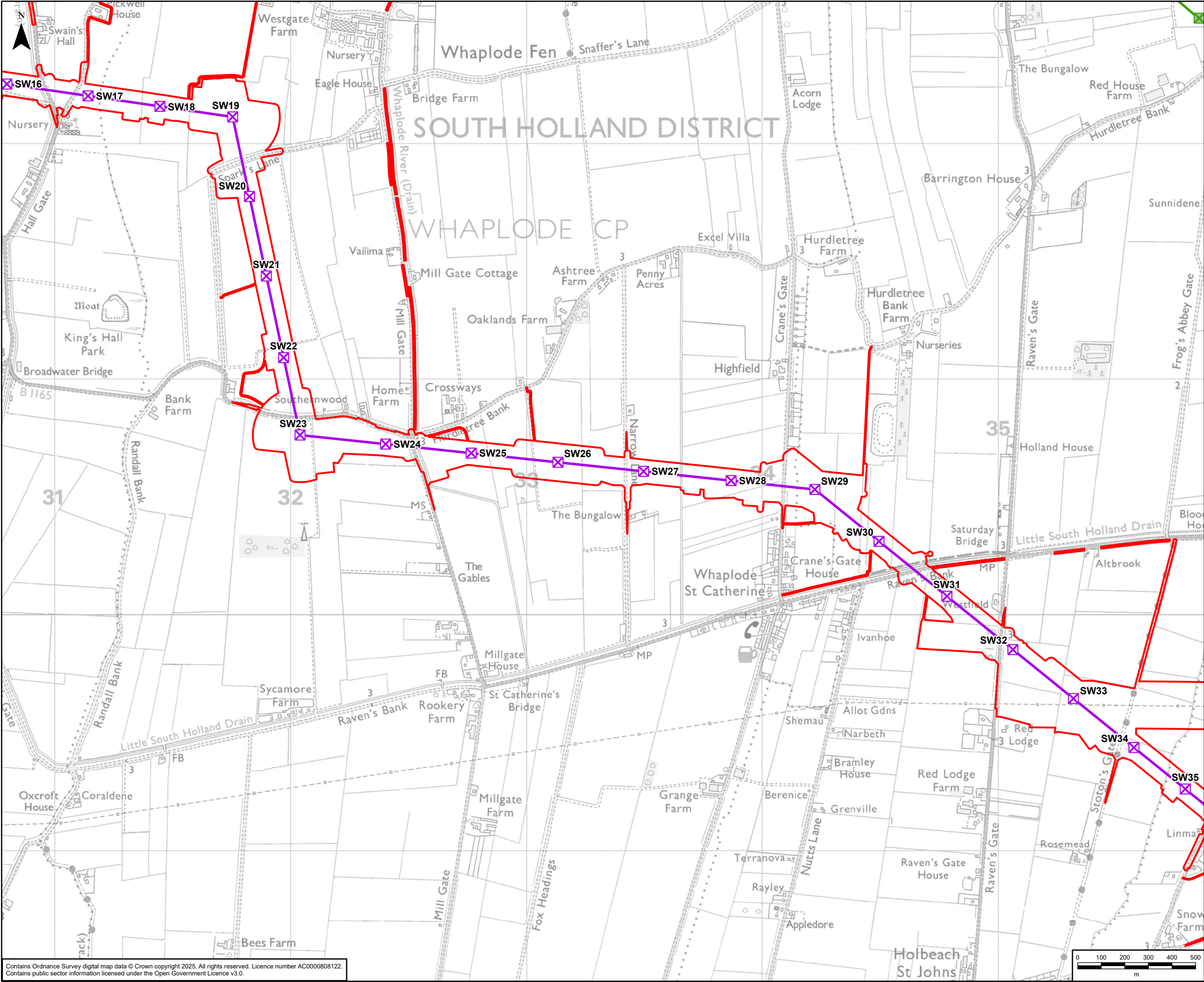
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- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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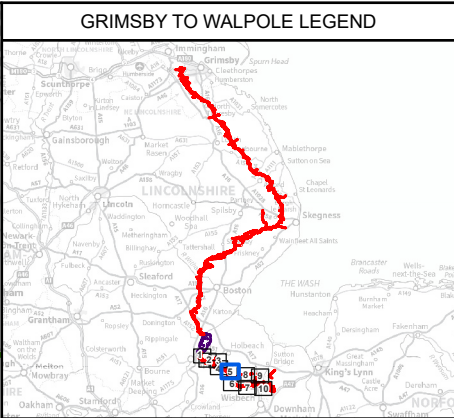
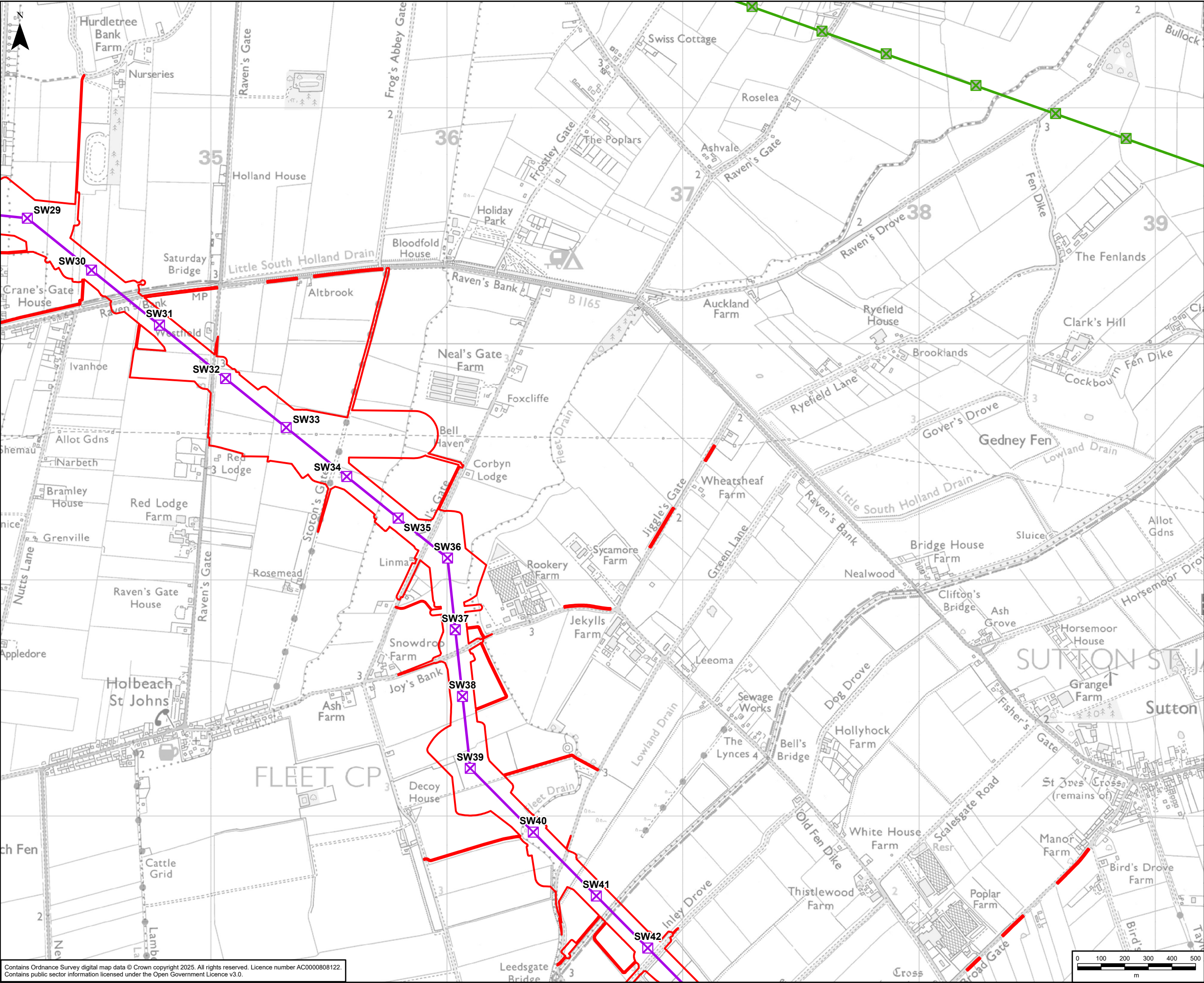


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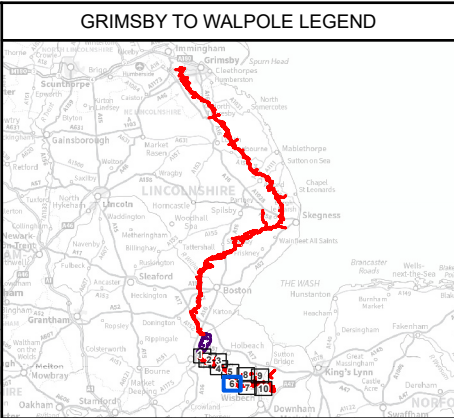
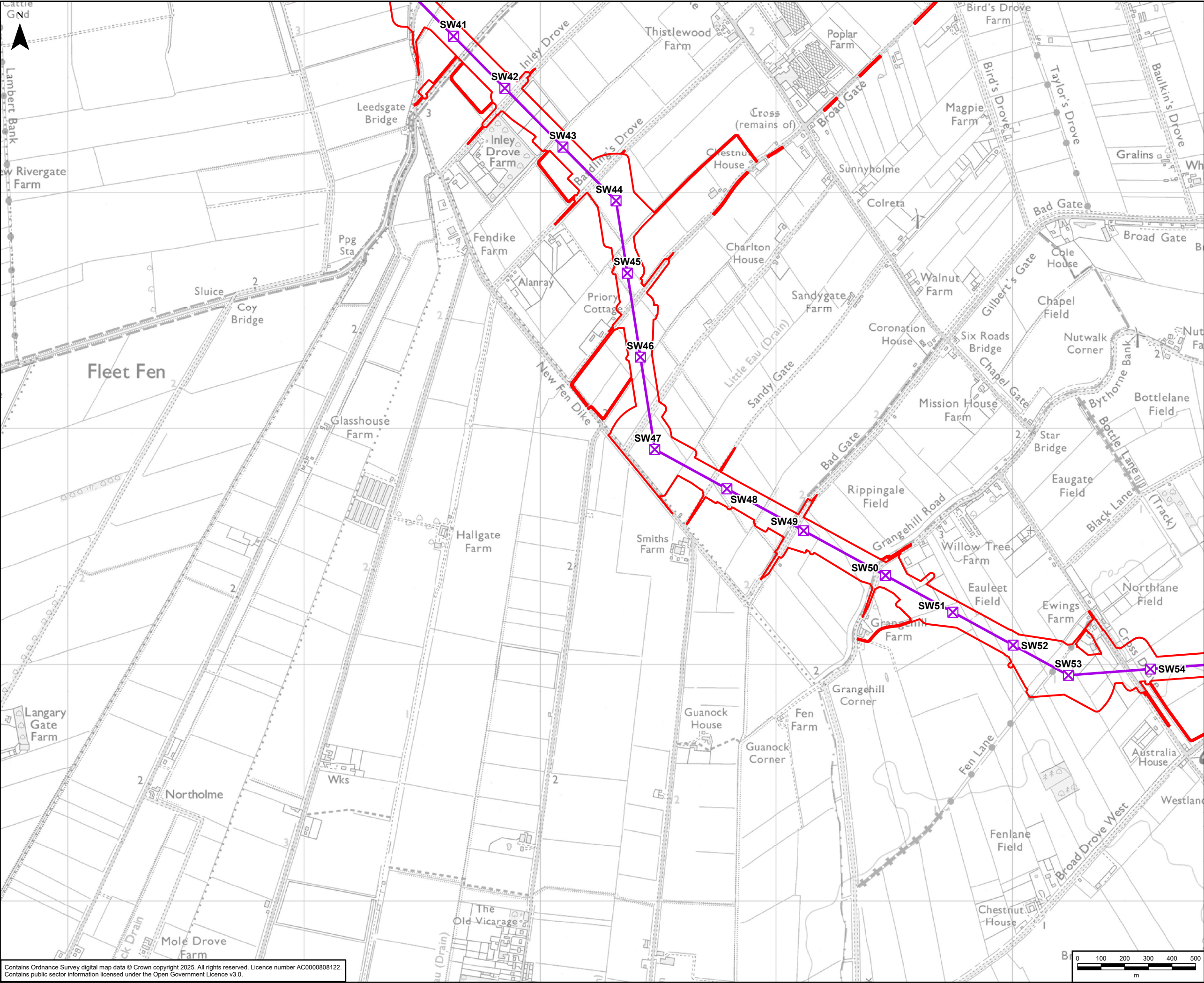
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- Legend**
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Existing Lattice Pylon - Not Affected
 - Indicative New Overhead Line
 - Existing Overhead Line - Not Affected

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GRIMSBY TO WALPOLE LEGEND

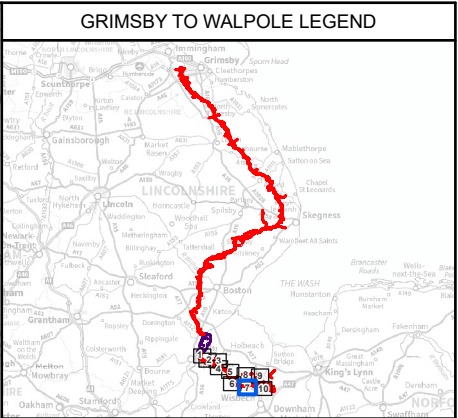
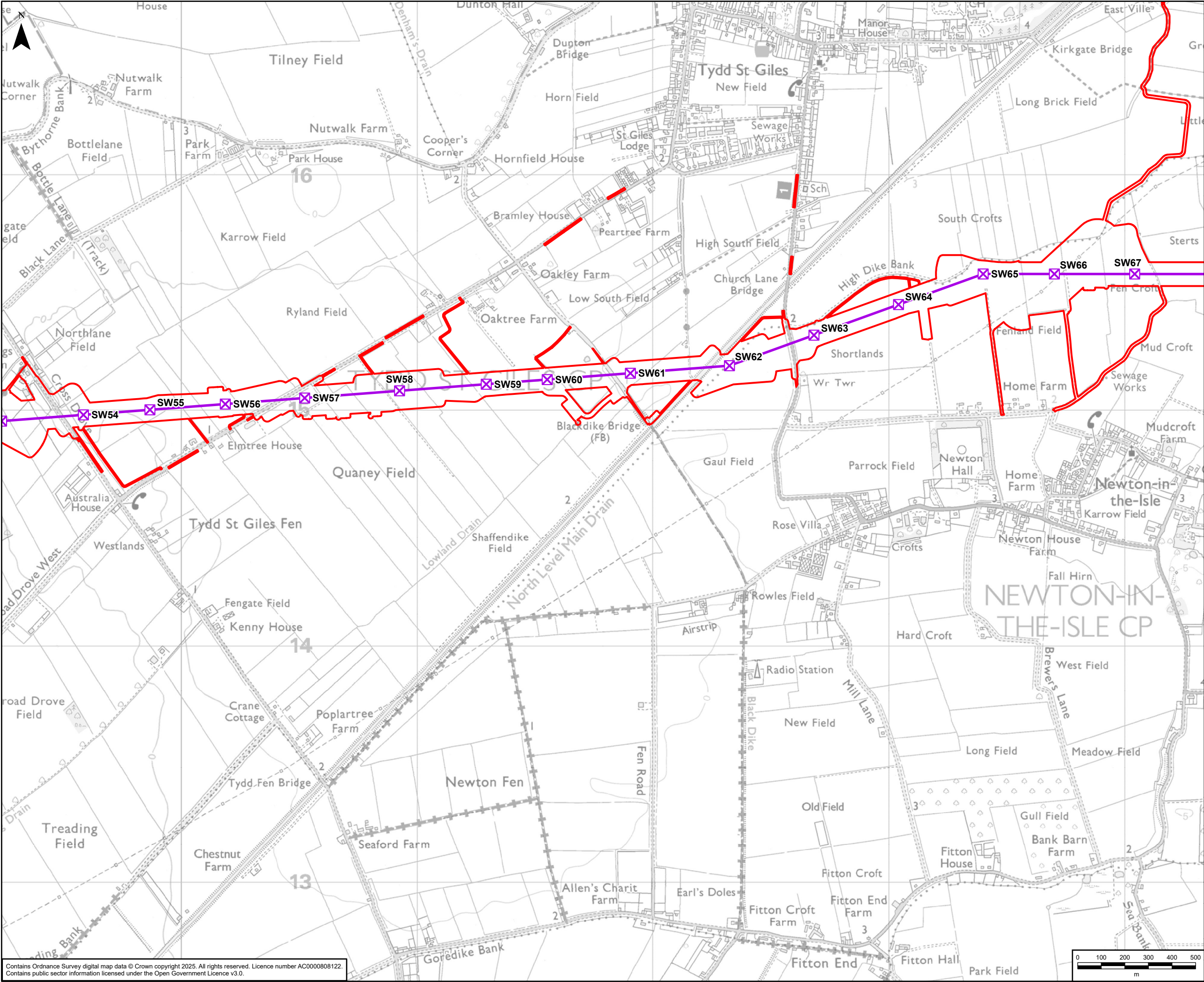
Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

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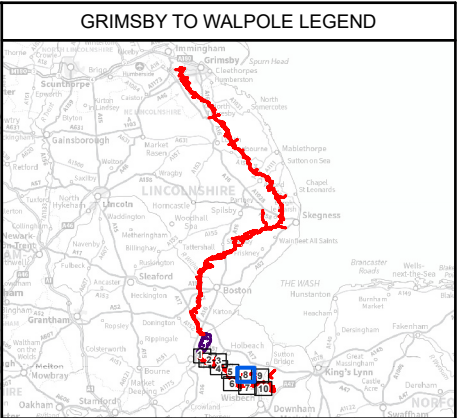
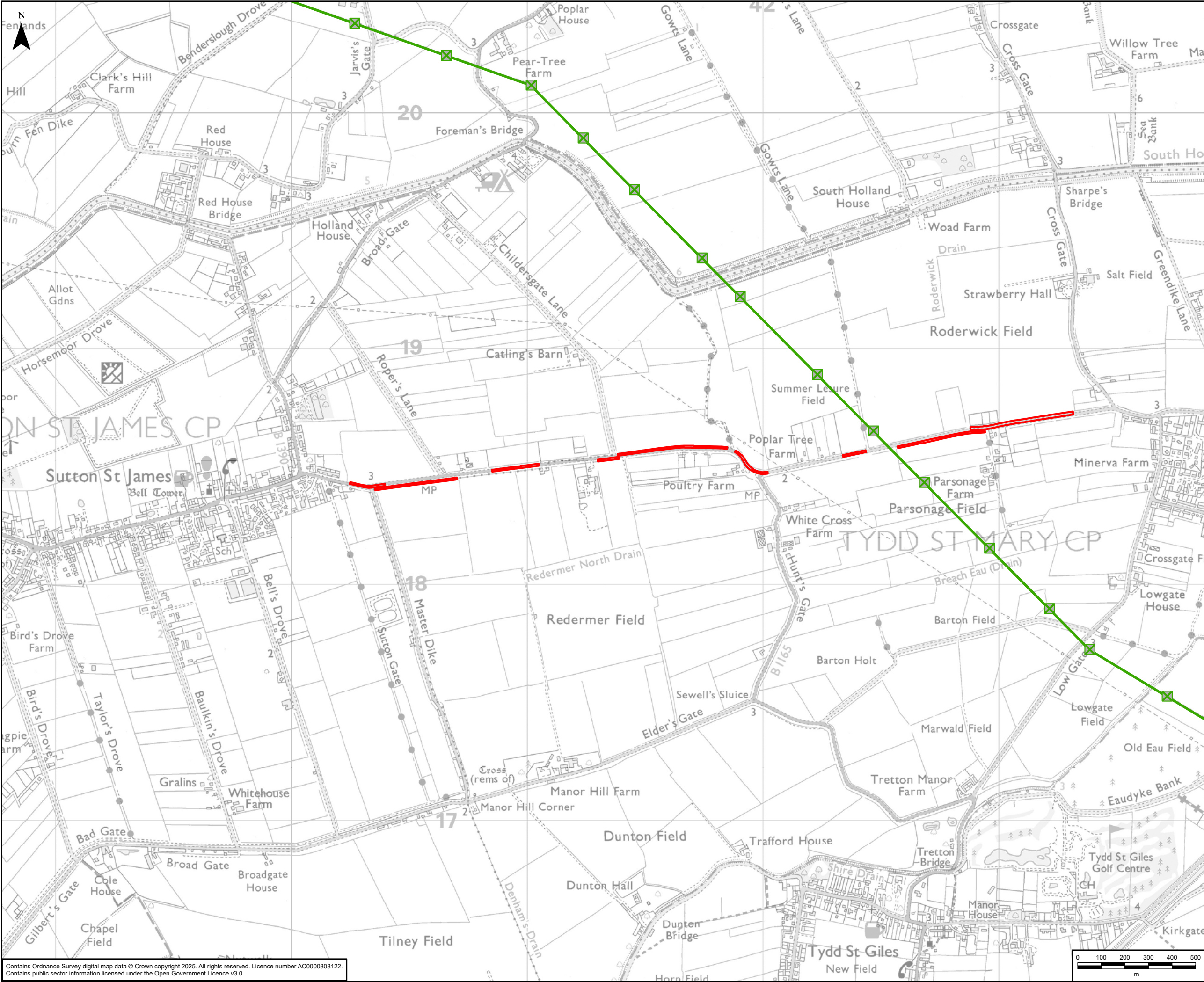


- Legend**
- Draft Order Limits
 - X Indicative New Lattice Pylon
 - Indicative New Overhead Line

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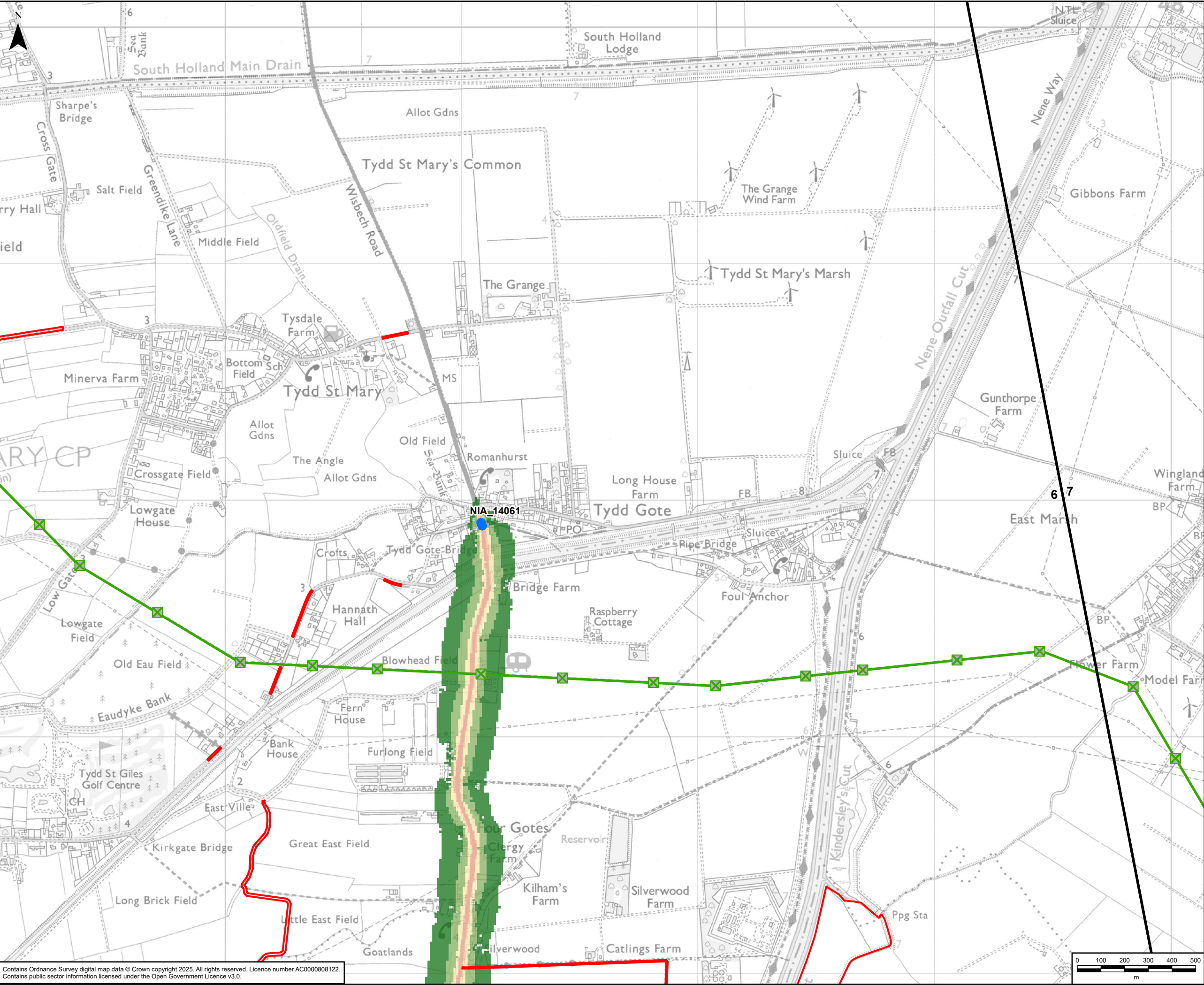
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- Legend**
- Draft Order Limits
 - ✕ Existing Lattice Pylon - Not Affected
 - Existing Overhead Line - Not Affected

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- ✕ Existing Lattice Pylon - Not Affected
- Existing Overhead Line - Not Affected
- NIA Noise Important Area

Defra Noise Data (Road) - dBA

- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

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Rev	Date	Description	GIS	Chk	App

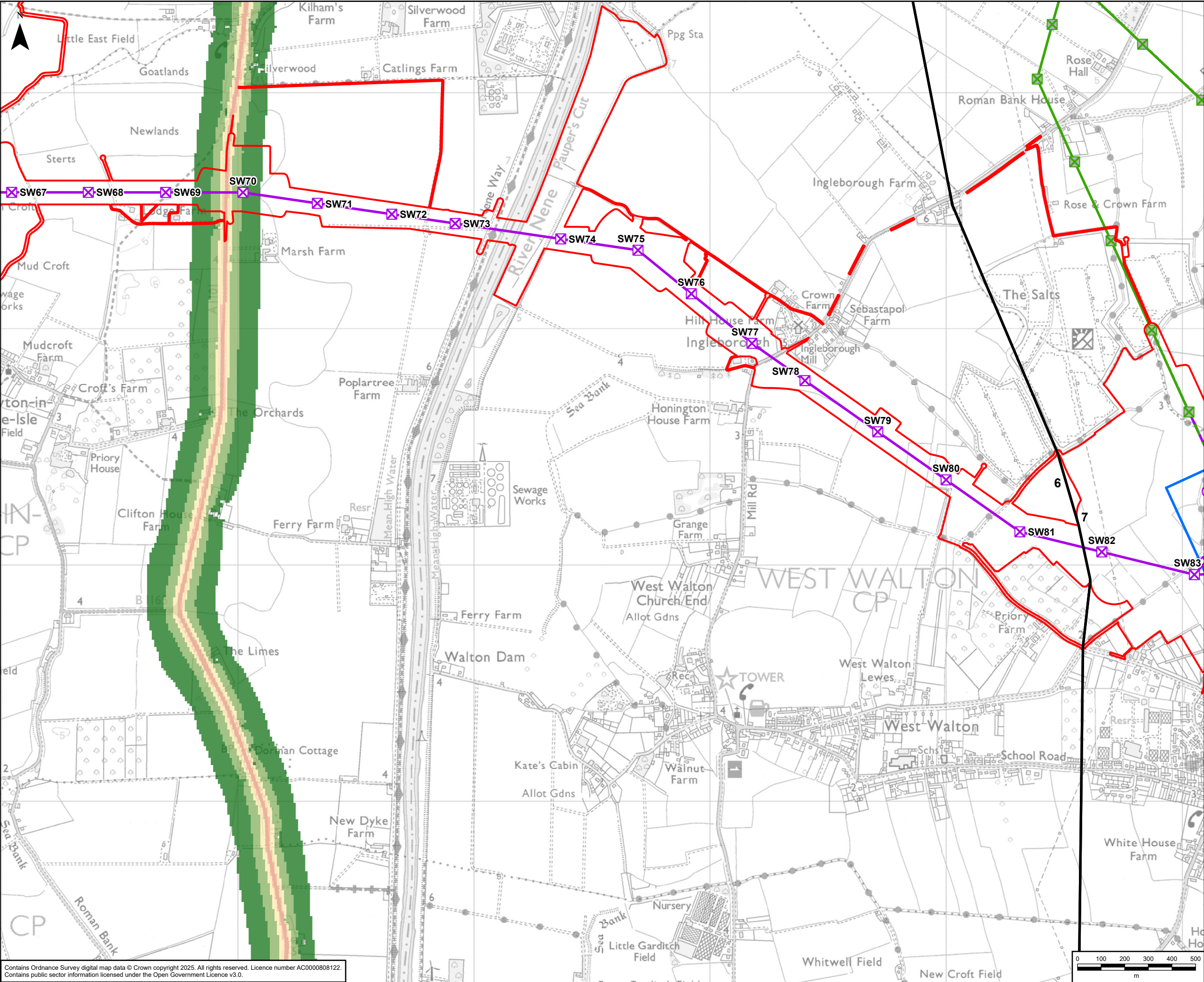
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Scheme: GRIMSBY TO WALPOLE

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NOISE AND VIBRATION BASELINE

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Indicative New Substation Boundary

Defra Noise Data (Road) - dBA

- 70.0-74.9
- 65.0-69.9
- 60.0-64.9
- 55.0-59.9

A	09/05/2025	First Issue	LC	DG	DR
Rev	Date	Description	GIS	Chk	App

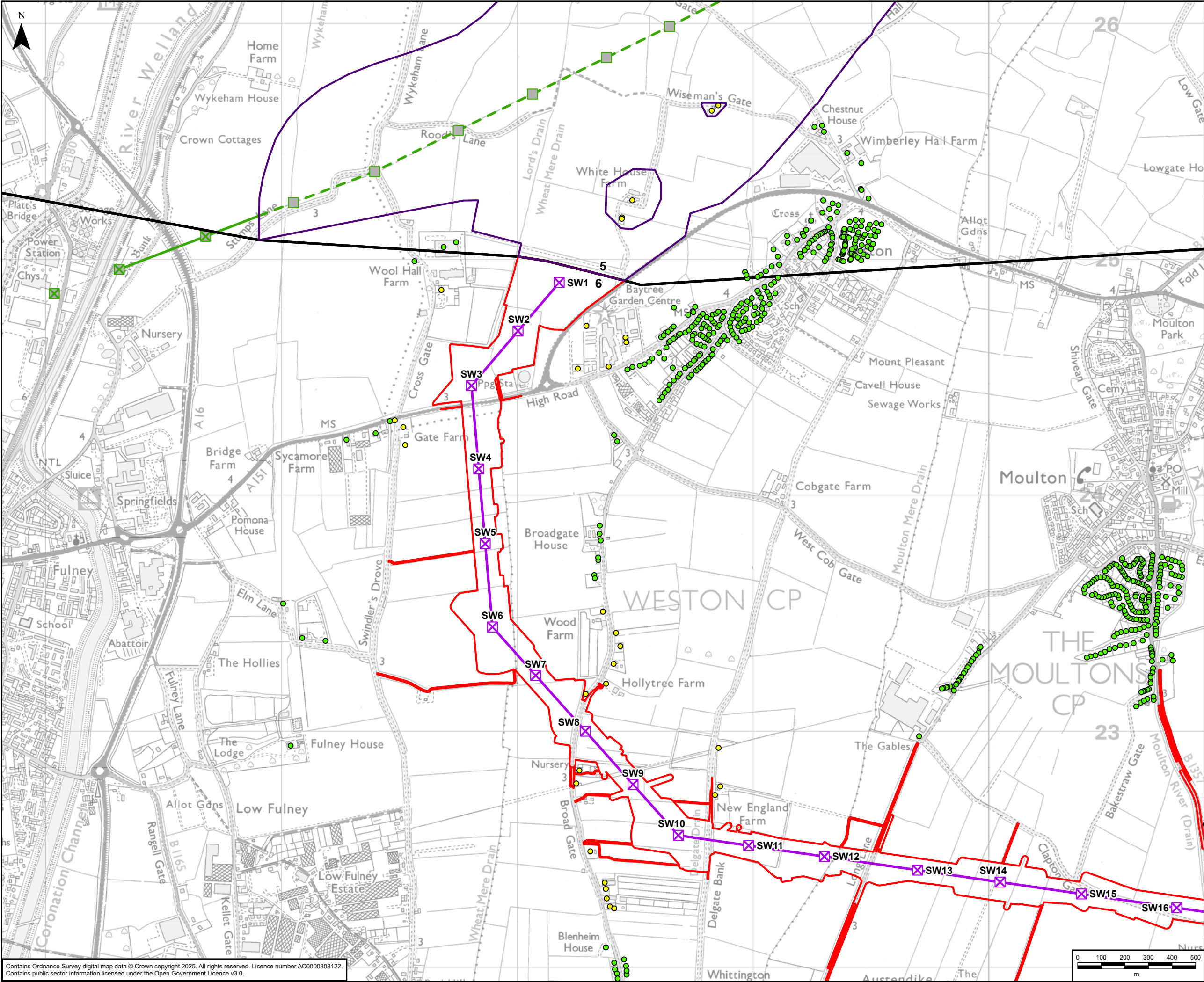
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Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 10.2 NOISE AND VIBRATION BASELINE

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

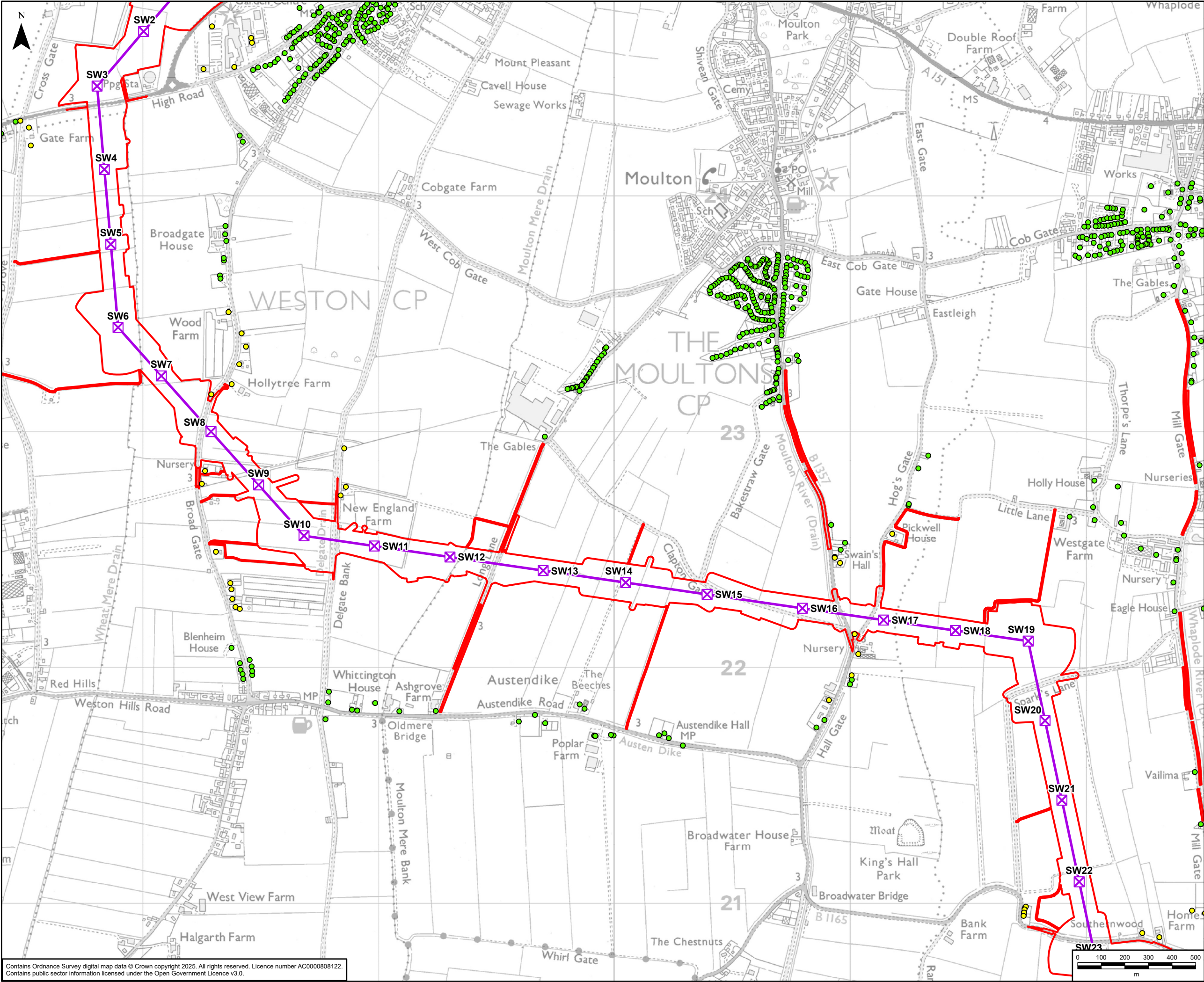
Construction Noise Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App

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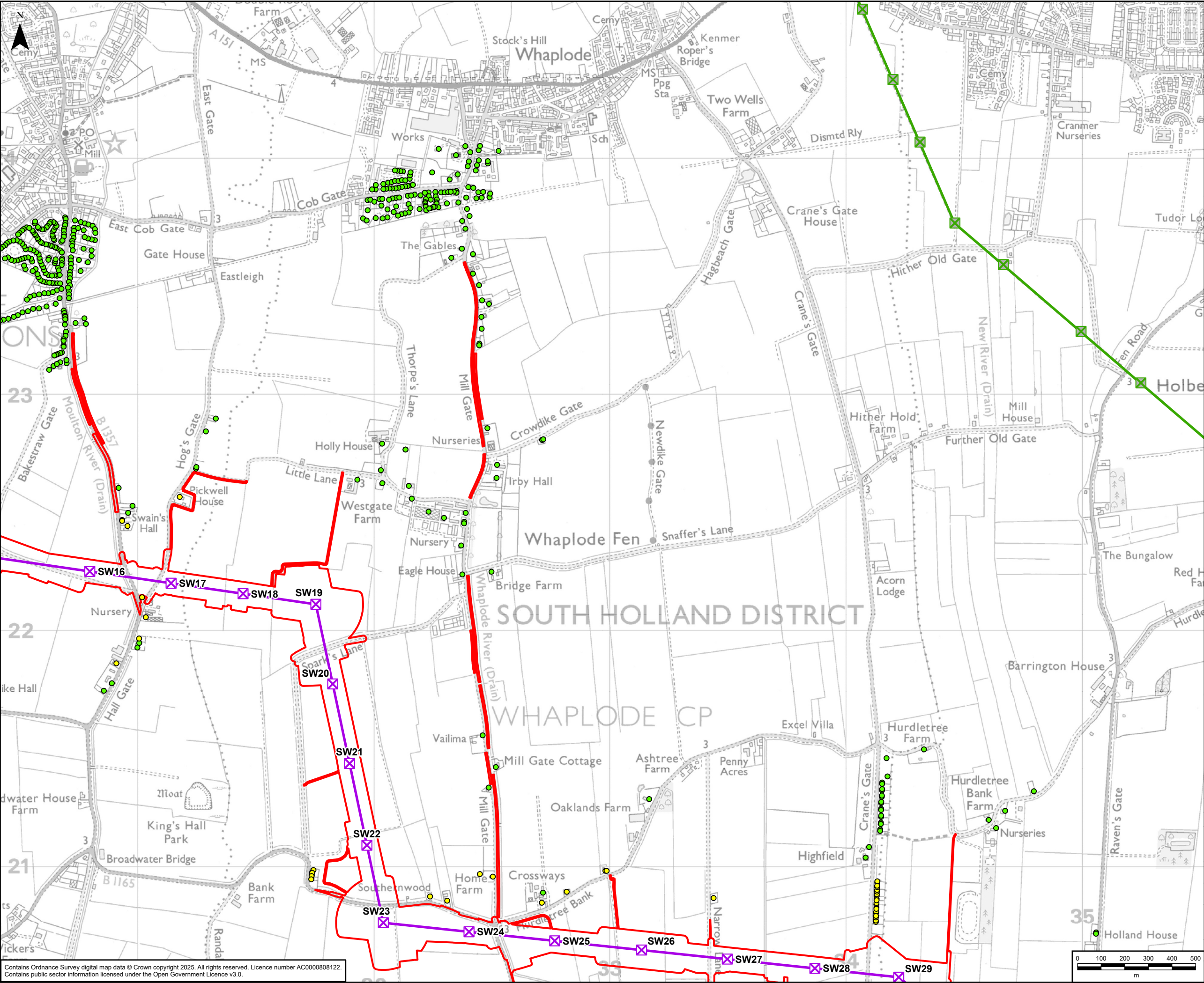
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Construction Noise Levels

- Negligible
- Small

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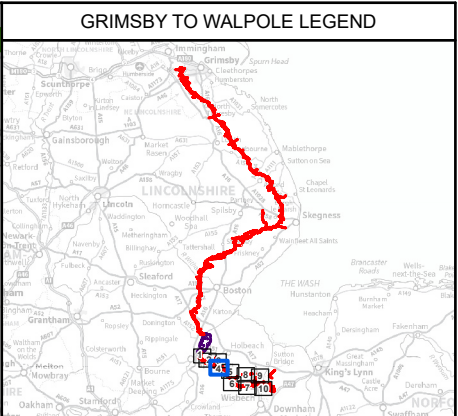
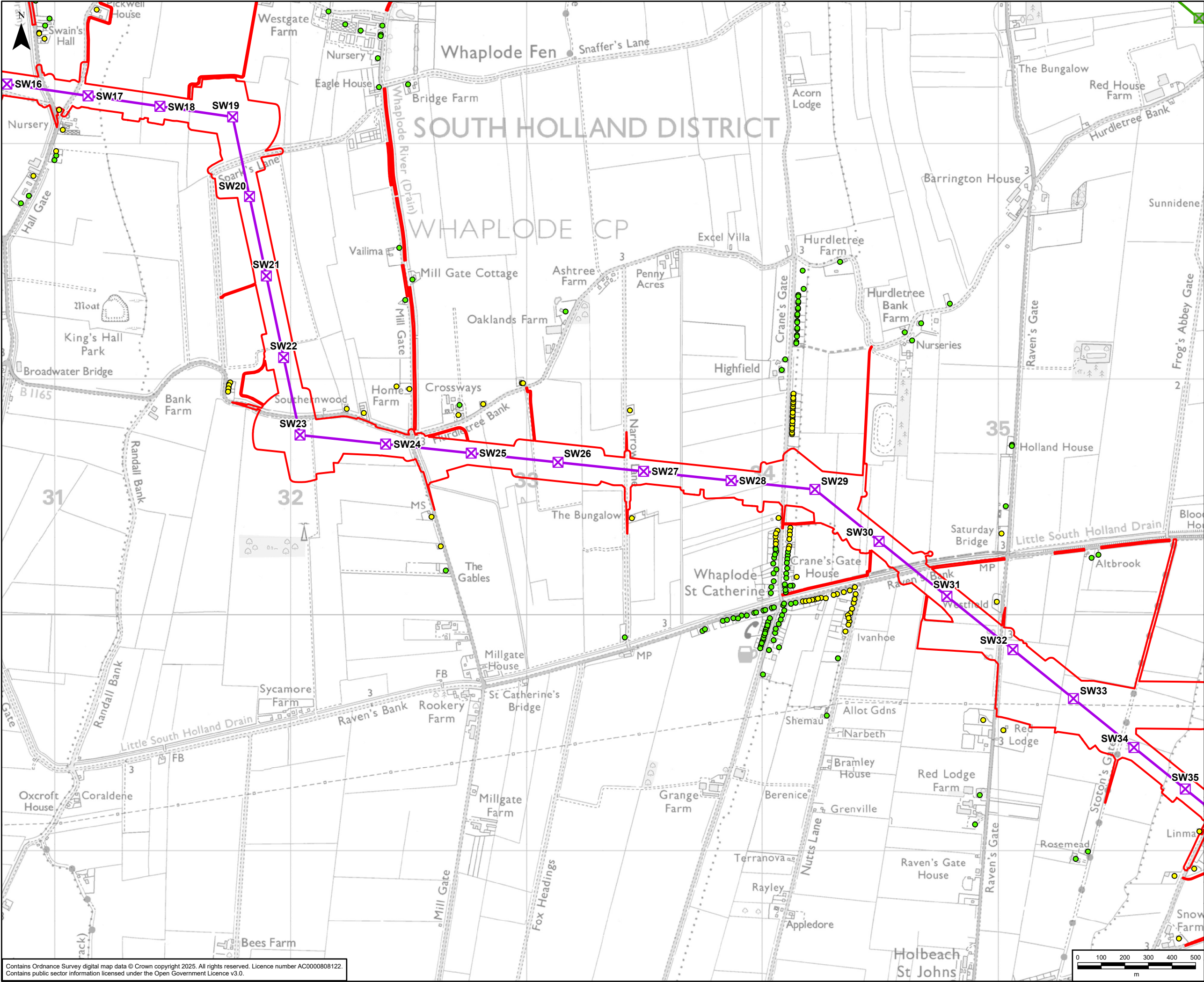
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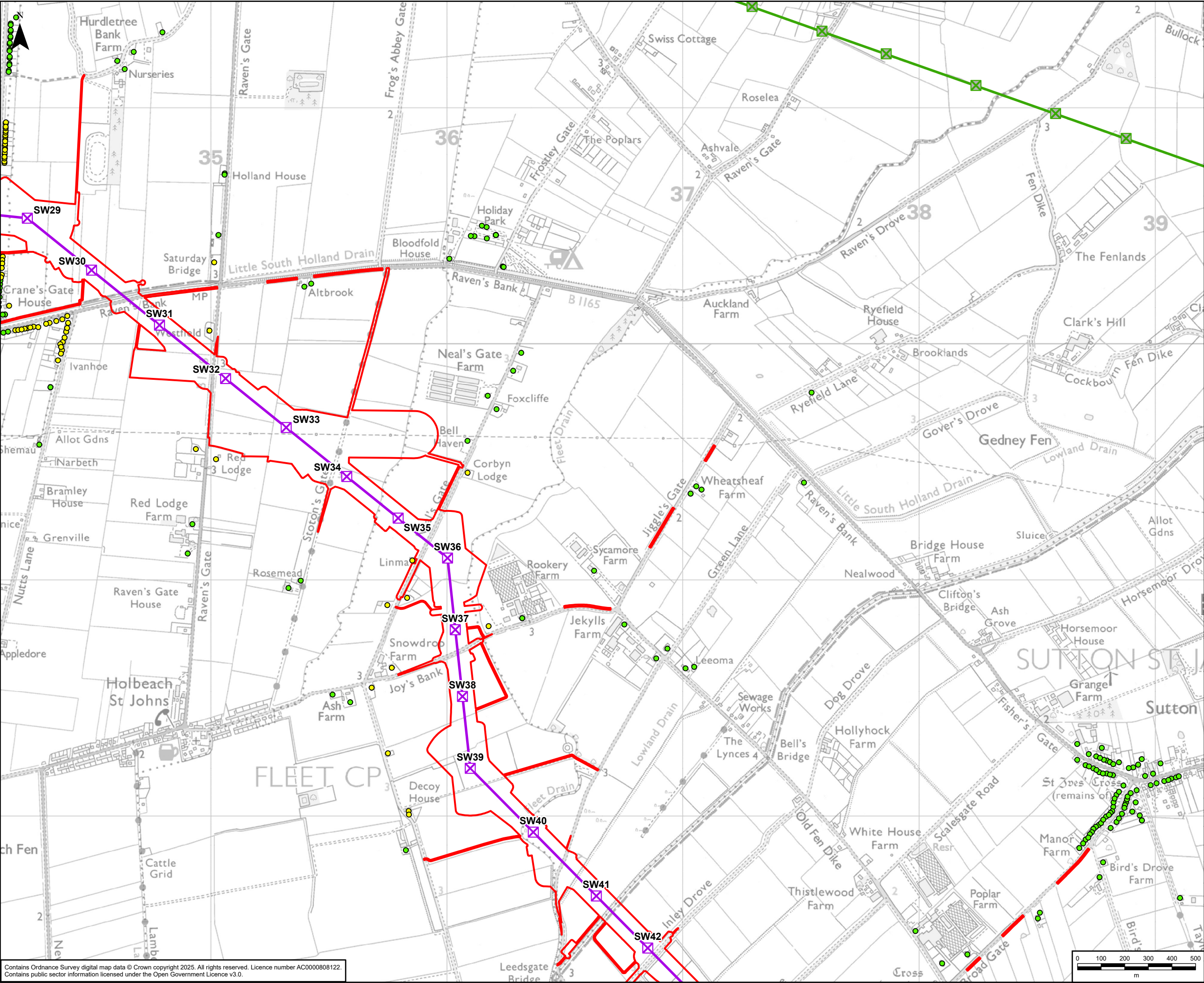
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Existing Lattice Pylon - Not Affected
 - Indicative New Overhead Line
 - Existing Overhead Line - Not Affected
- Construction Noise Levels
- Negligible
 - Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Construction Noise Levels

- Negligible
- Small

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Rev	Date	Description	GIS	Chk	App

nationalgrid

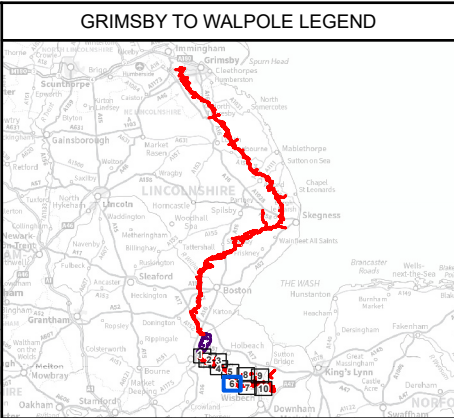
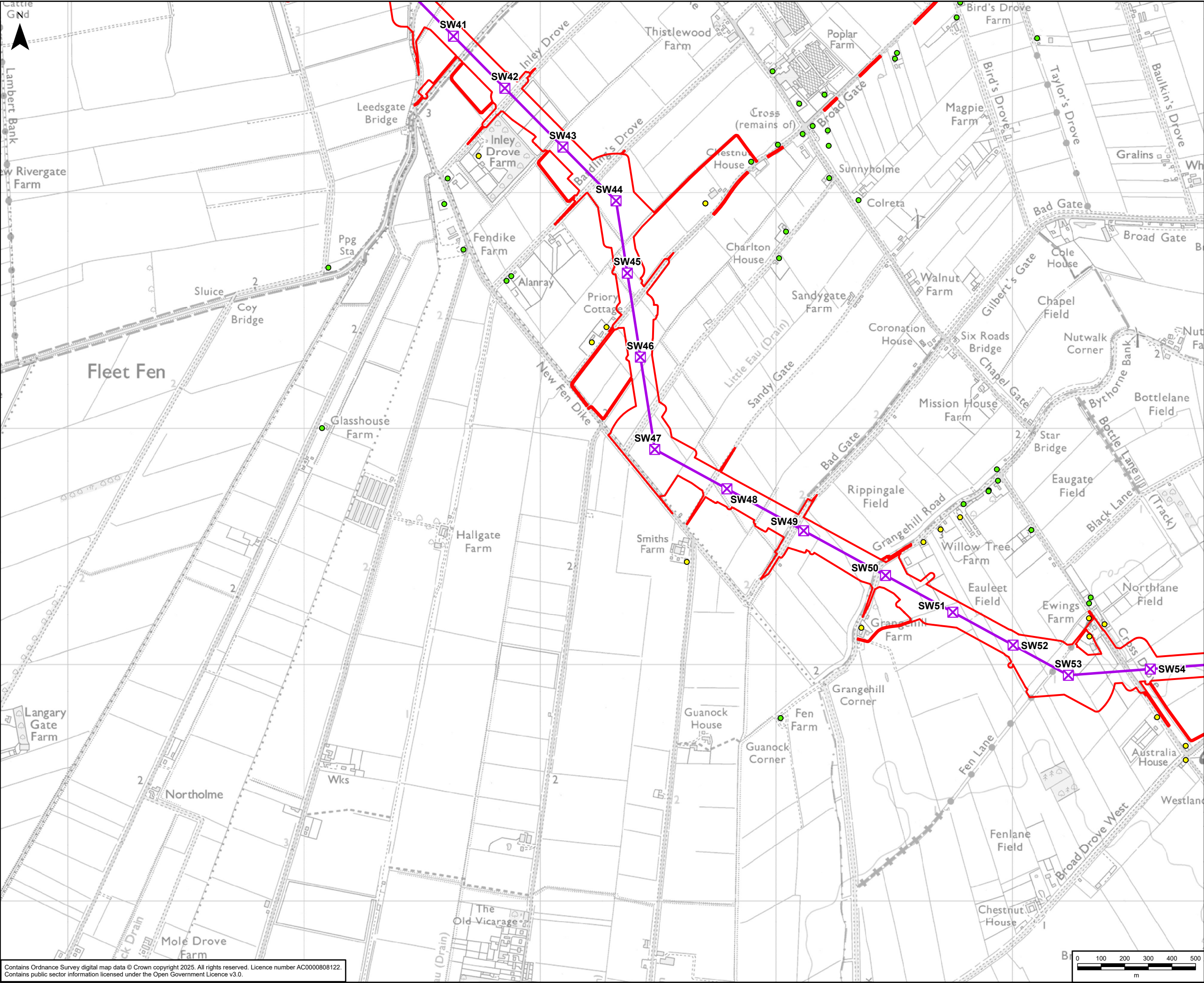
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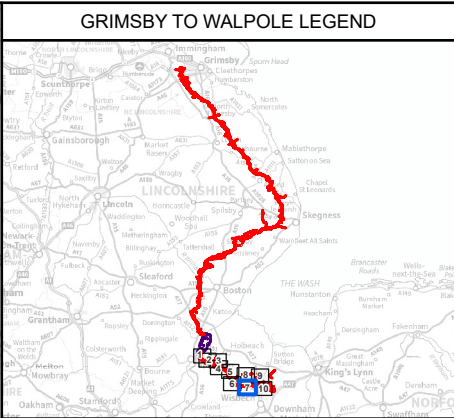
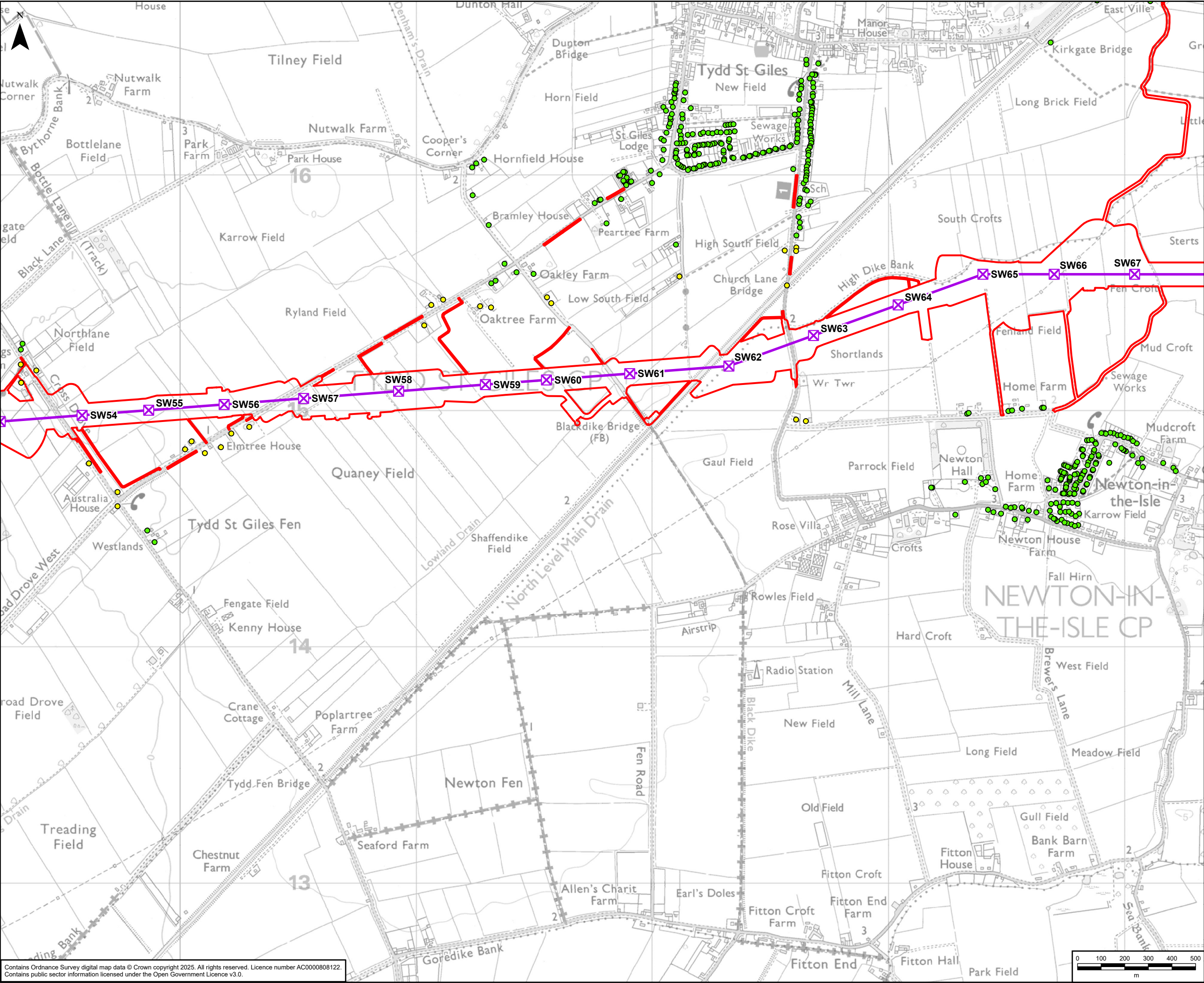


- Legend**
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Noise Levels**
- Negligible
 - Small

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GRIMSBY TO WALPOLE LEGEND

Legend

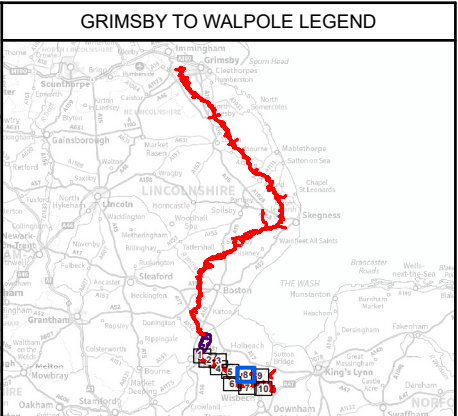
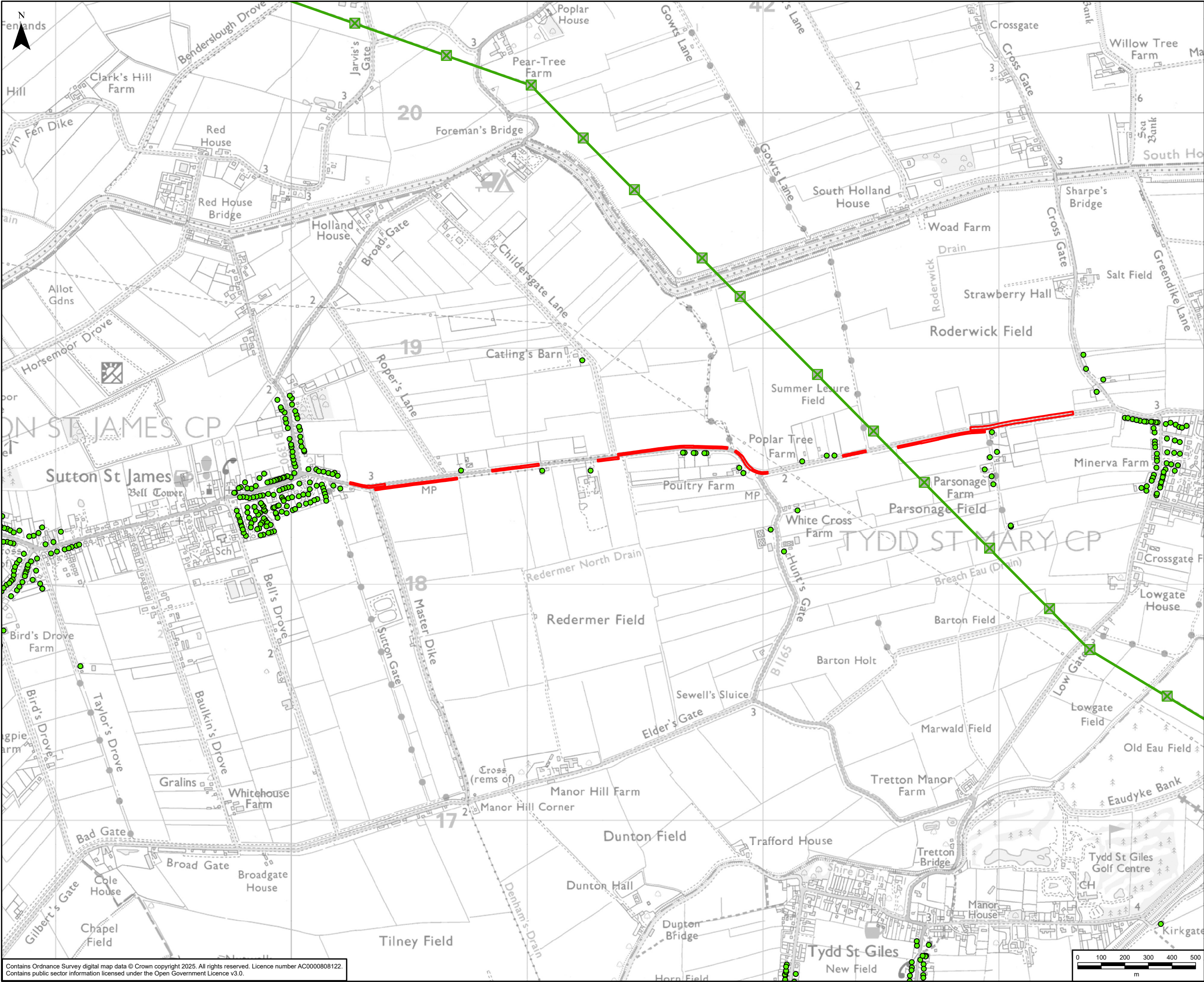
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- Indicative New Lattice Pylon
- Indicative New Overhead Line

Construction Noise Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

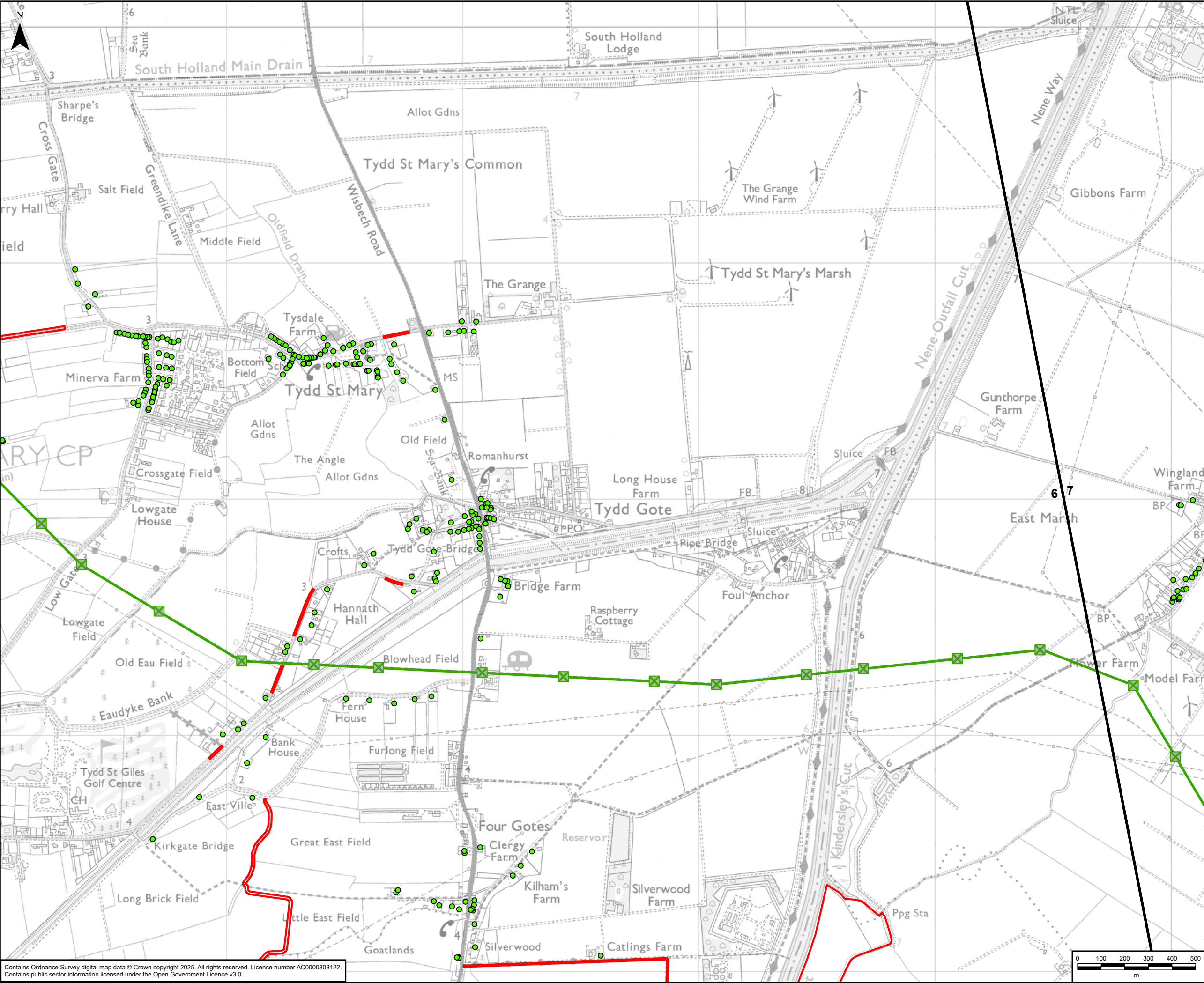
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- Existing Overhead Line - Not Affected

Construction Noise Levels

- Negligible

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Existing Lattice Pylon - Not Affected
- Existing Overhead Line - Not Affected
- Construction Noise Levels
 - Negligible

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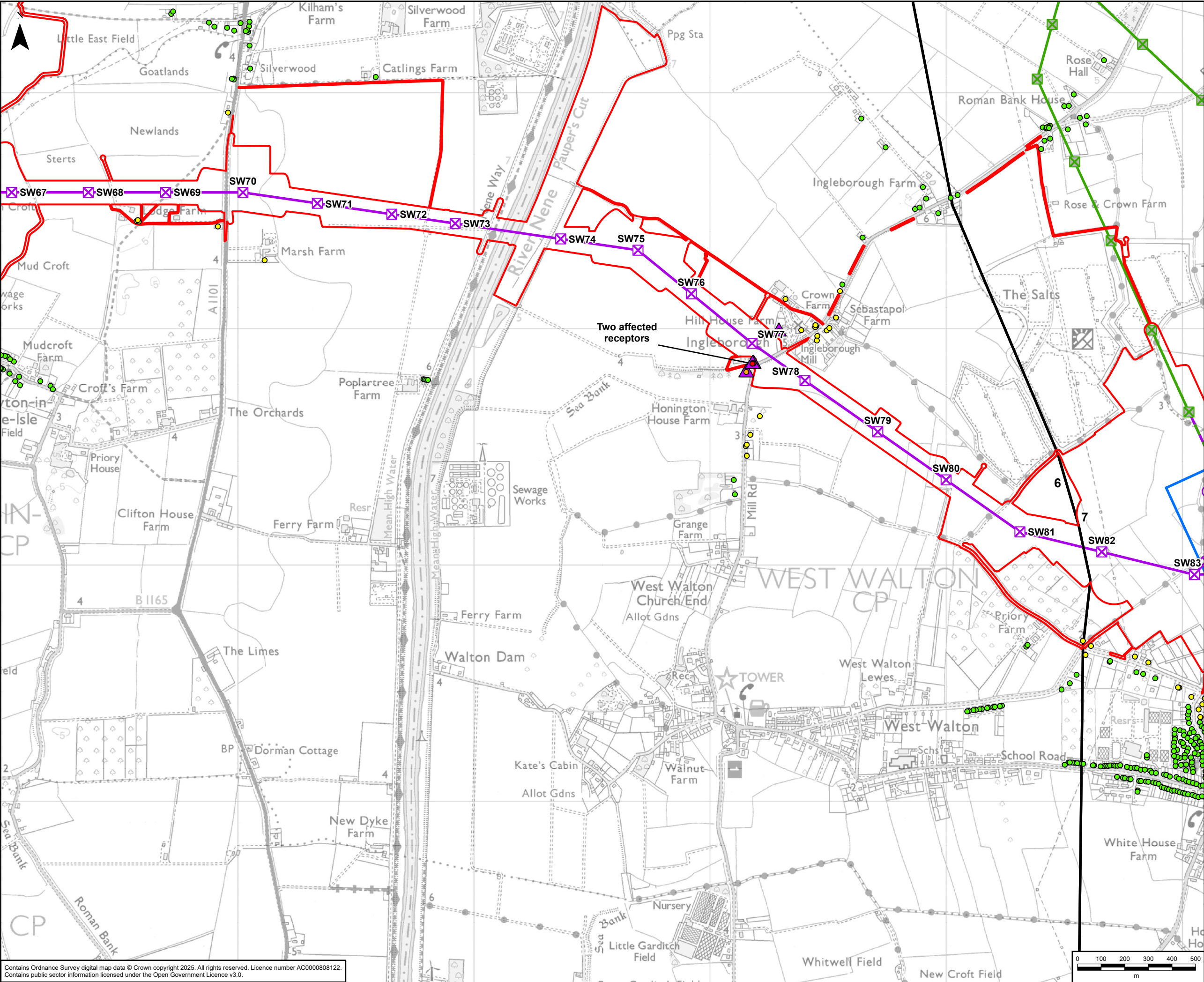
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GRIMSBY TO WALPOLE LEGEND

Draft Order Limits

Route Section Break

Indicative New Lattice Pylon

Indicative New Gantry

Existing Lattice Pylon - Not Affected

Indicative New Overhead Line

Existing Overhead Line - Not Affected

Indicative New Substation Boundary

Construction Noise Levels

Negligible

Small

Medium

Large

Construction Noise Assessment

Significant Adverse Effect - Residential

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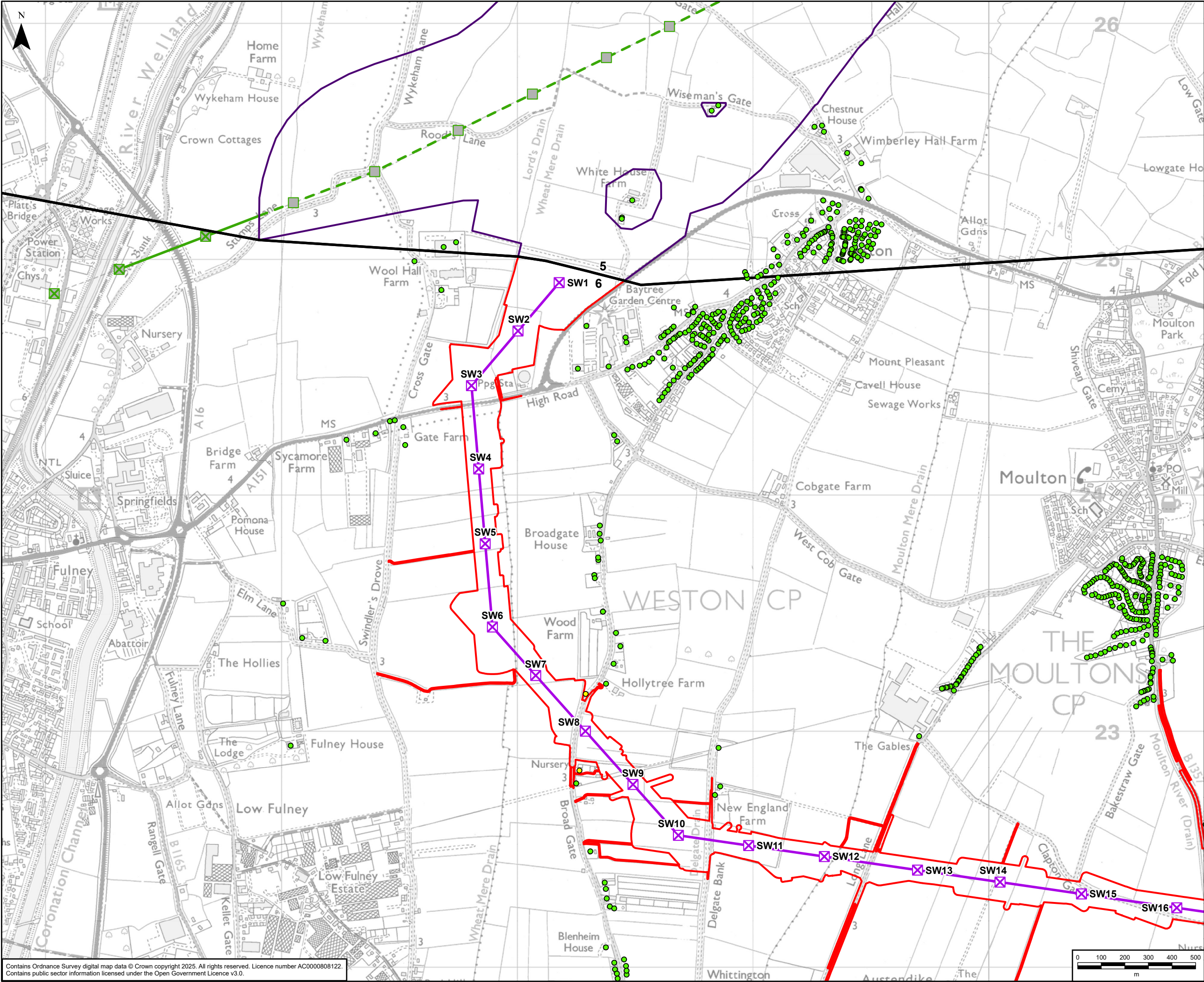
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Refined Weston Marsh Substation Siting Zone
- Route Section Break
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
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- Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified

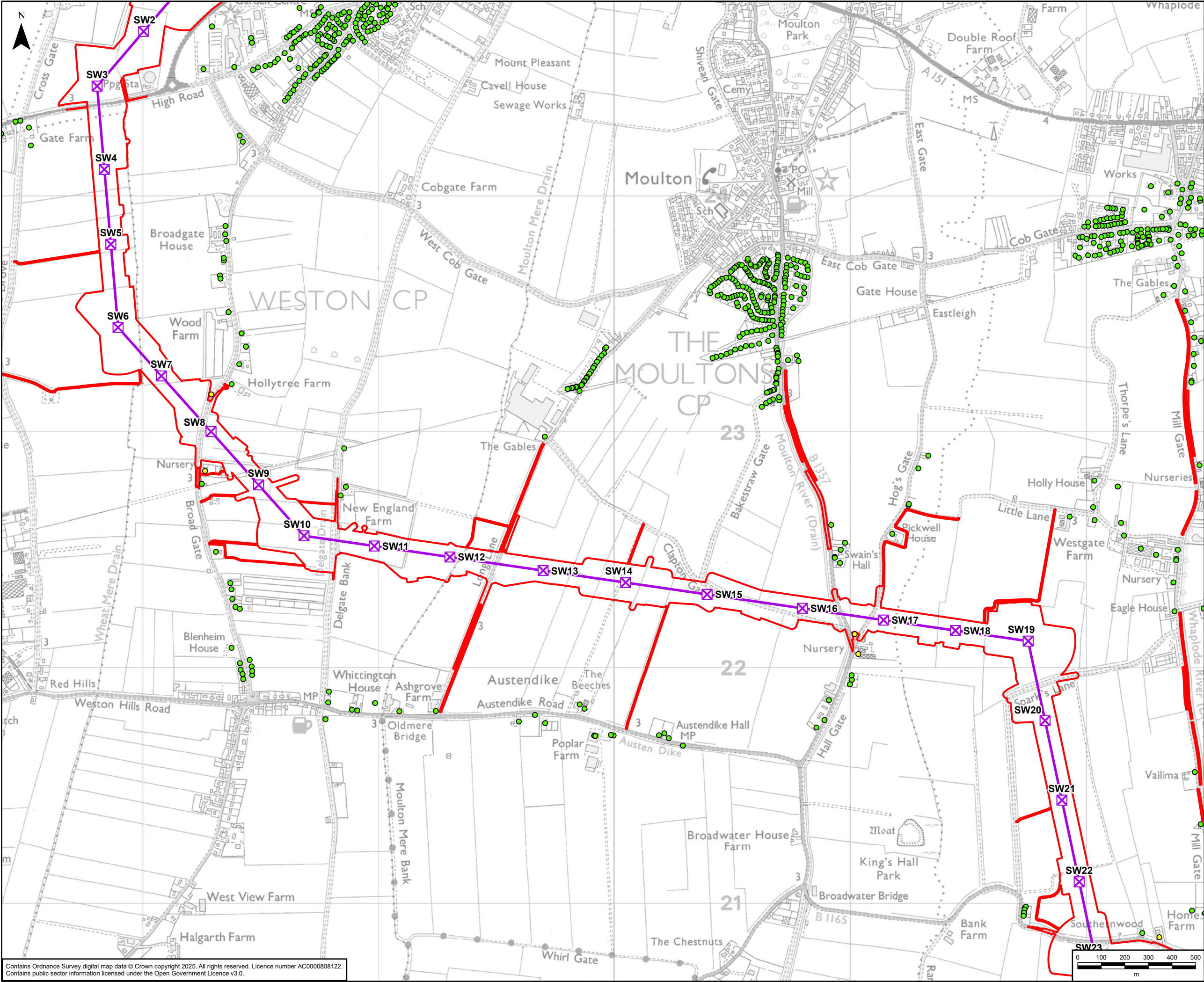
Construction Vibration Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Indicative New Overhead Line

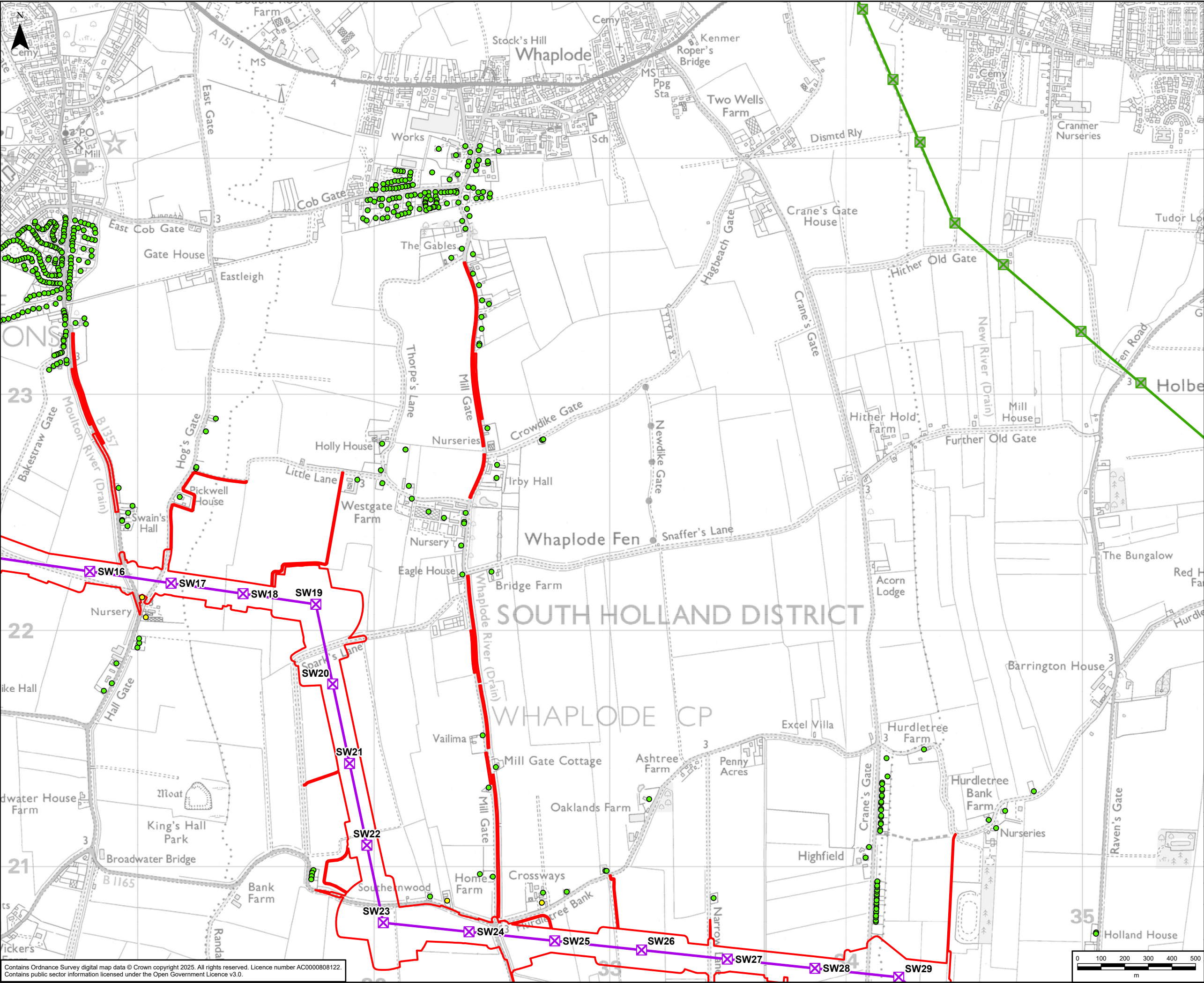
Construction Vibration Levels

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- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

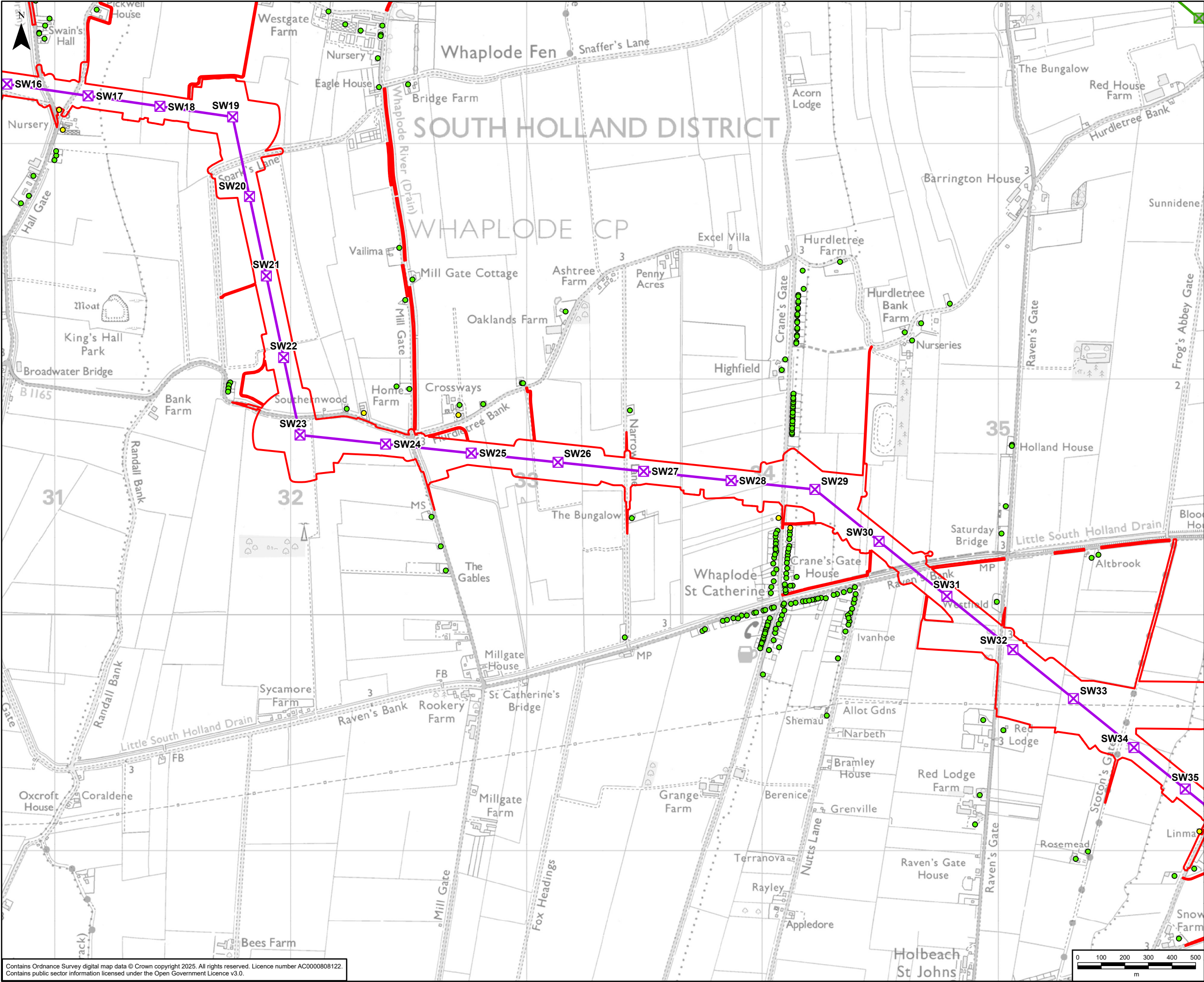
Construction Vibration Levels

- Negligible
- Small

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Construction Vibration Levels

- Negligible
- Small

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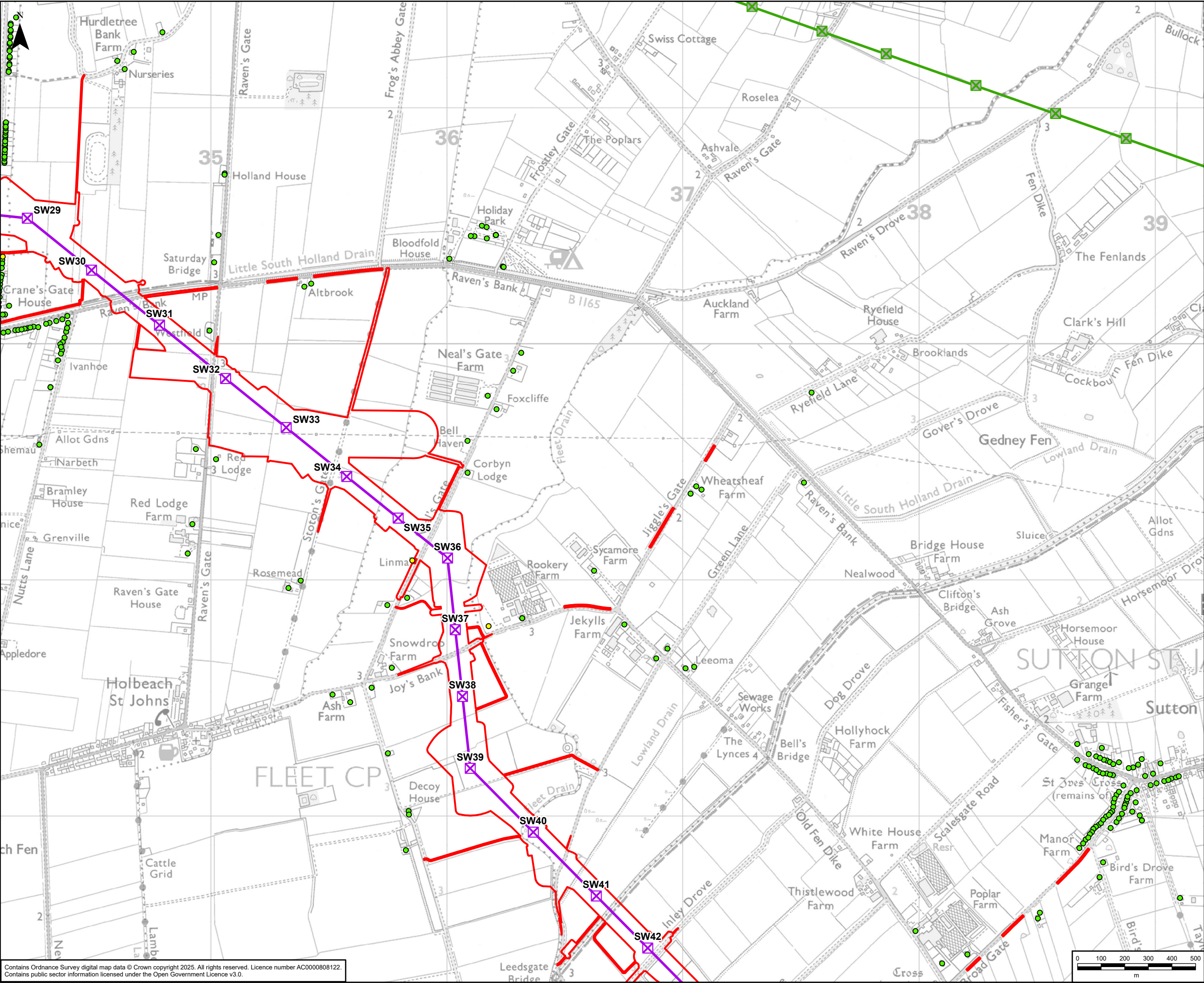
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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Construction Vibration Levels

- Negligible
- Small

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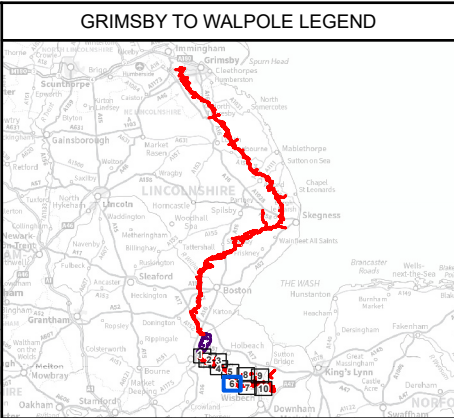
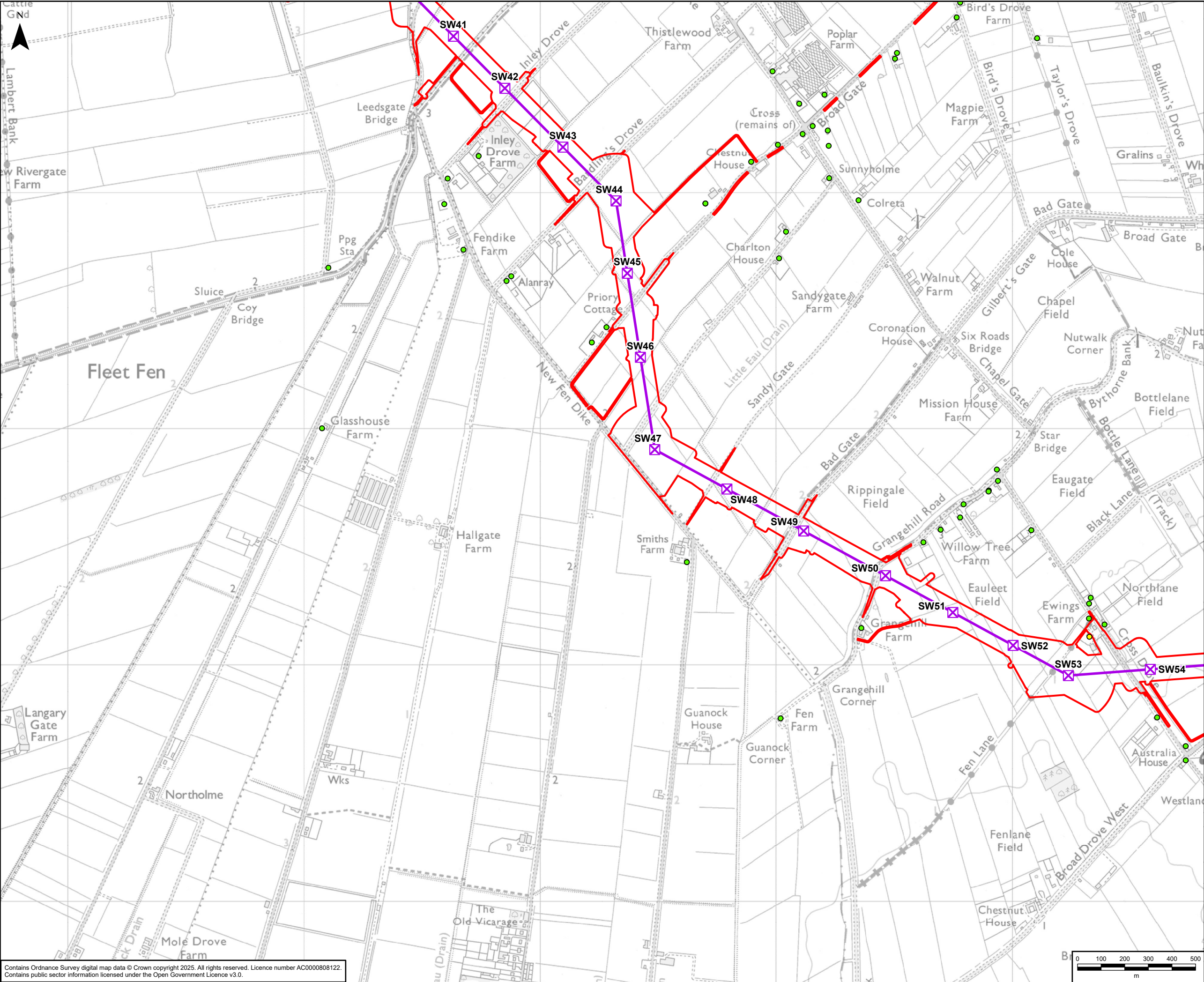
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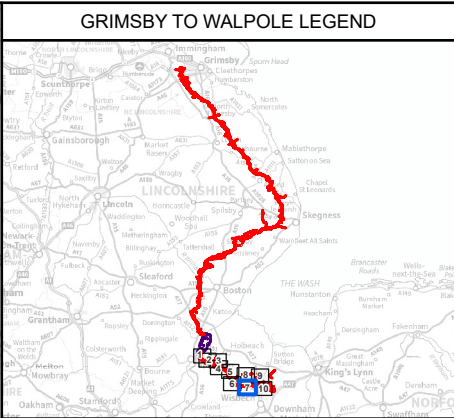
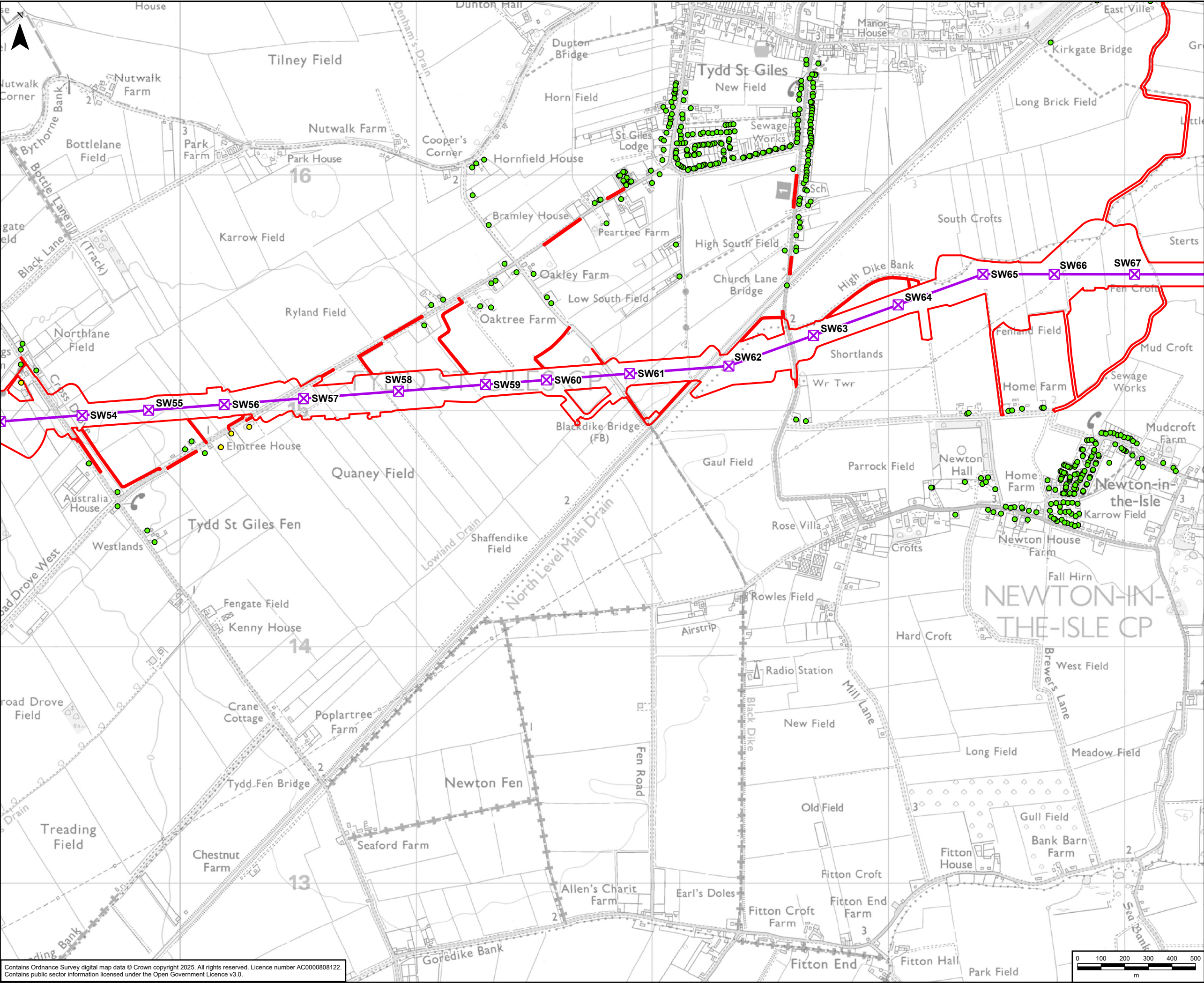
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- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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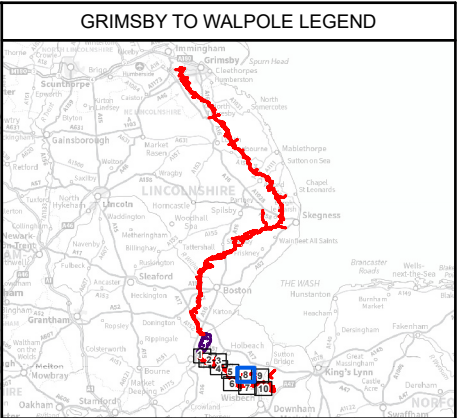
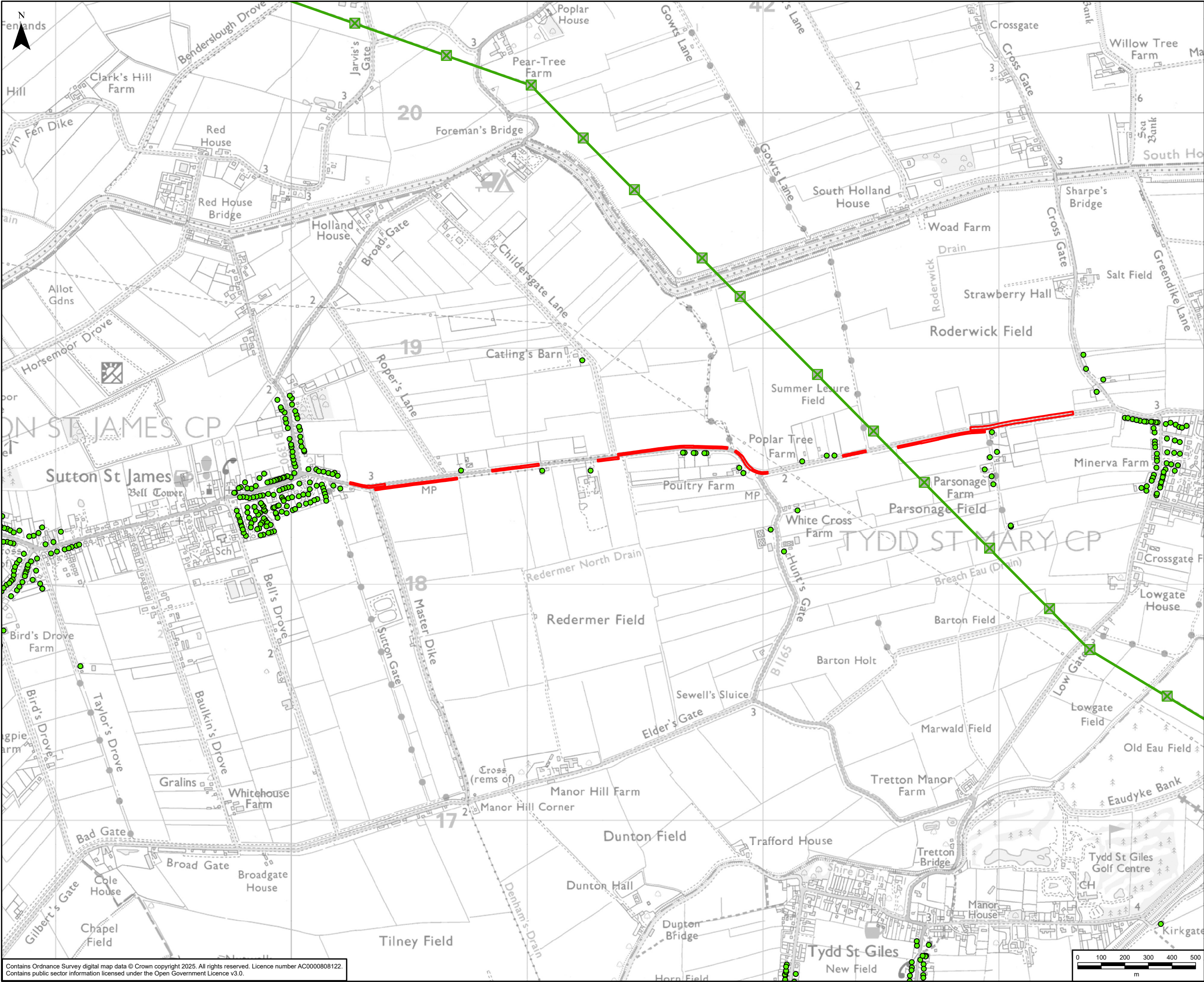


- Legend
- Draft Order Limits
 - Indicative New Lattice Pylon
 - Indicative New Overhead Line
- Construction Vibration Levels
- Negligible
 - Small

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Rev	Date	Description	GIS	Chk	App
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Purpose:		PEI REPORT - SECTION 6			
Scheme:		GRIMSBY TO WALPOLE			
Document Title:		FIGURE 10.4 INITIAL CONSTRUCTION VIBRATION ASSESSMENT OUTPUTS			
Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	09/05/2025	DG	09/05/2025	DR	09/05/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:15,000	A3	7 OF 10	A	

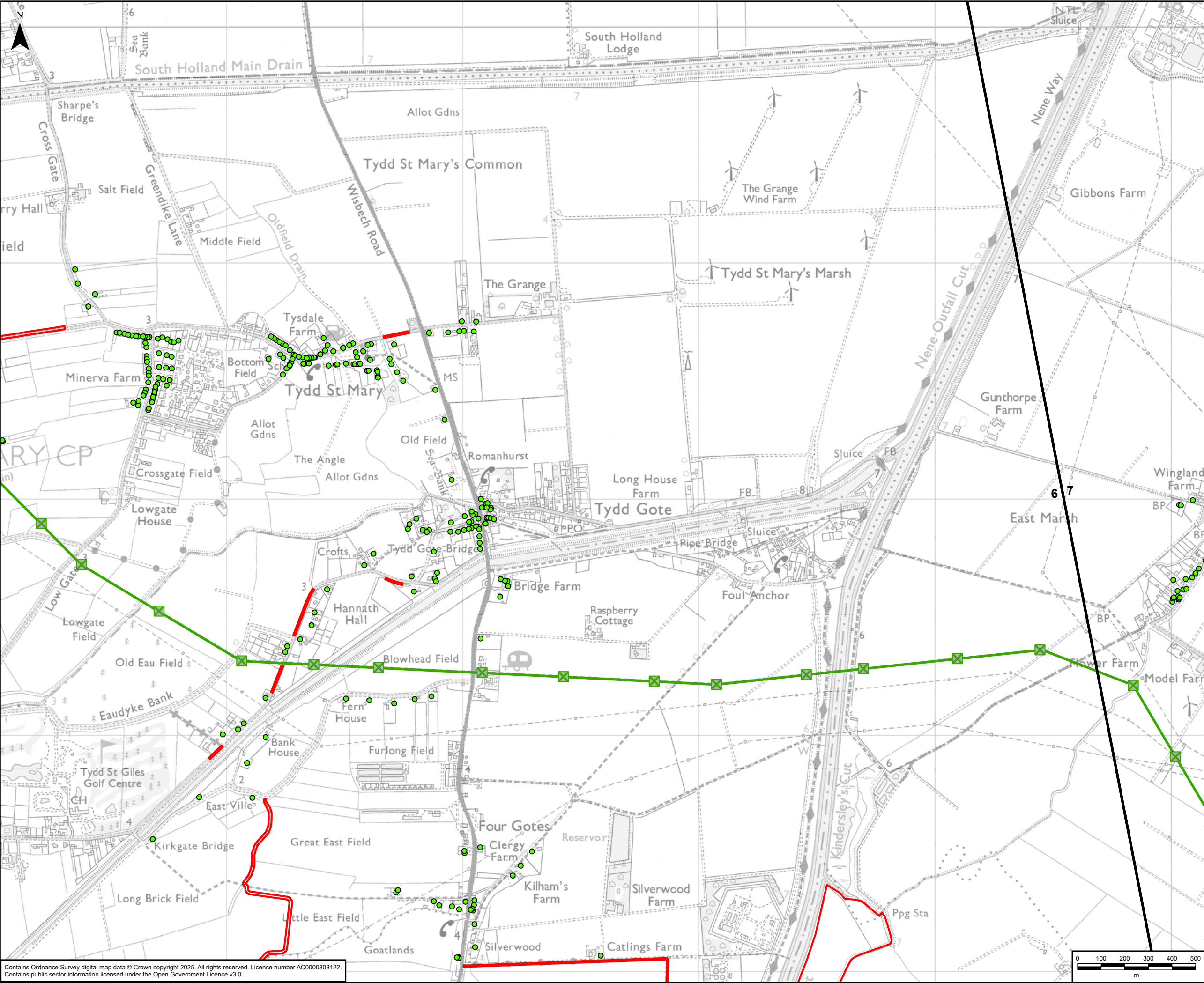


- Legend**
- Draft Order Limits
 - ✕ Existing Lattice Pylon - Not Affected
 - Existing Overhead Line - Not Affected
- Construction Vibration Levels**
- Negligible

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FIGURE	1:15,000	A3	8 OF 10	A	



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Existing Lattice Pylon - Not Affected
- Existing Overhead Line - Not Affected

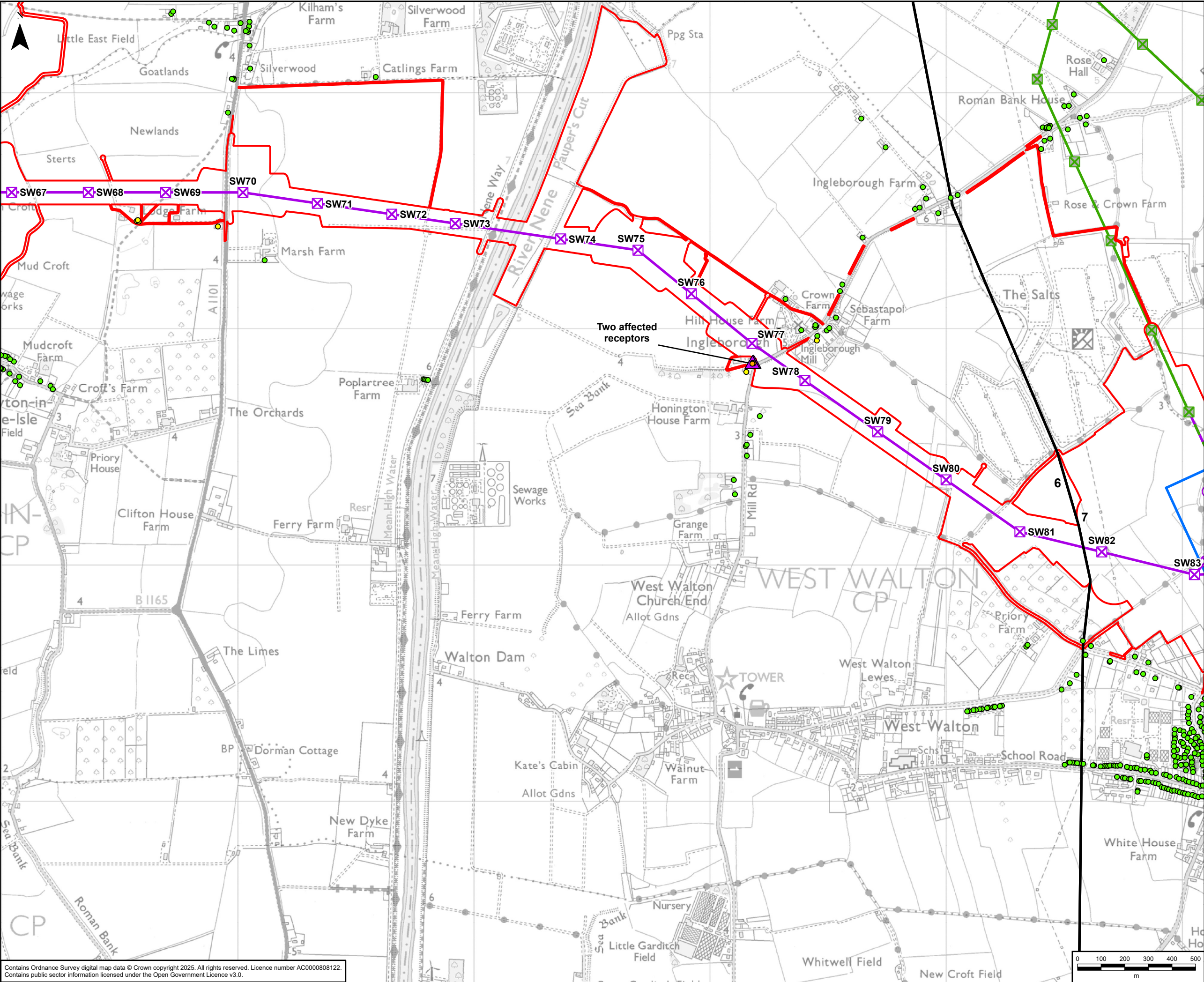
Construction Vibration Levels

- Negligible

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Rev	Date	Description	GIS	Chk	App

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected
- Indicative New Substation Boundary

Construction Vibration Levels

- Negligible
- Small
- Medium

Construction Vibration Assessment

- Significant Adverse Effect - Residential

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Document Title: FIGURE 10.4
INITIAL CONSTRUCTION VIBRATION
ASSESSMENT OUTPUTS

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