

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 power line towers under a 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 7 New Walpole B Substation

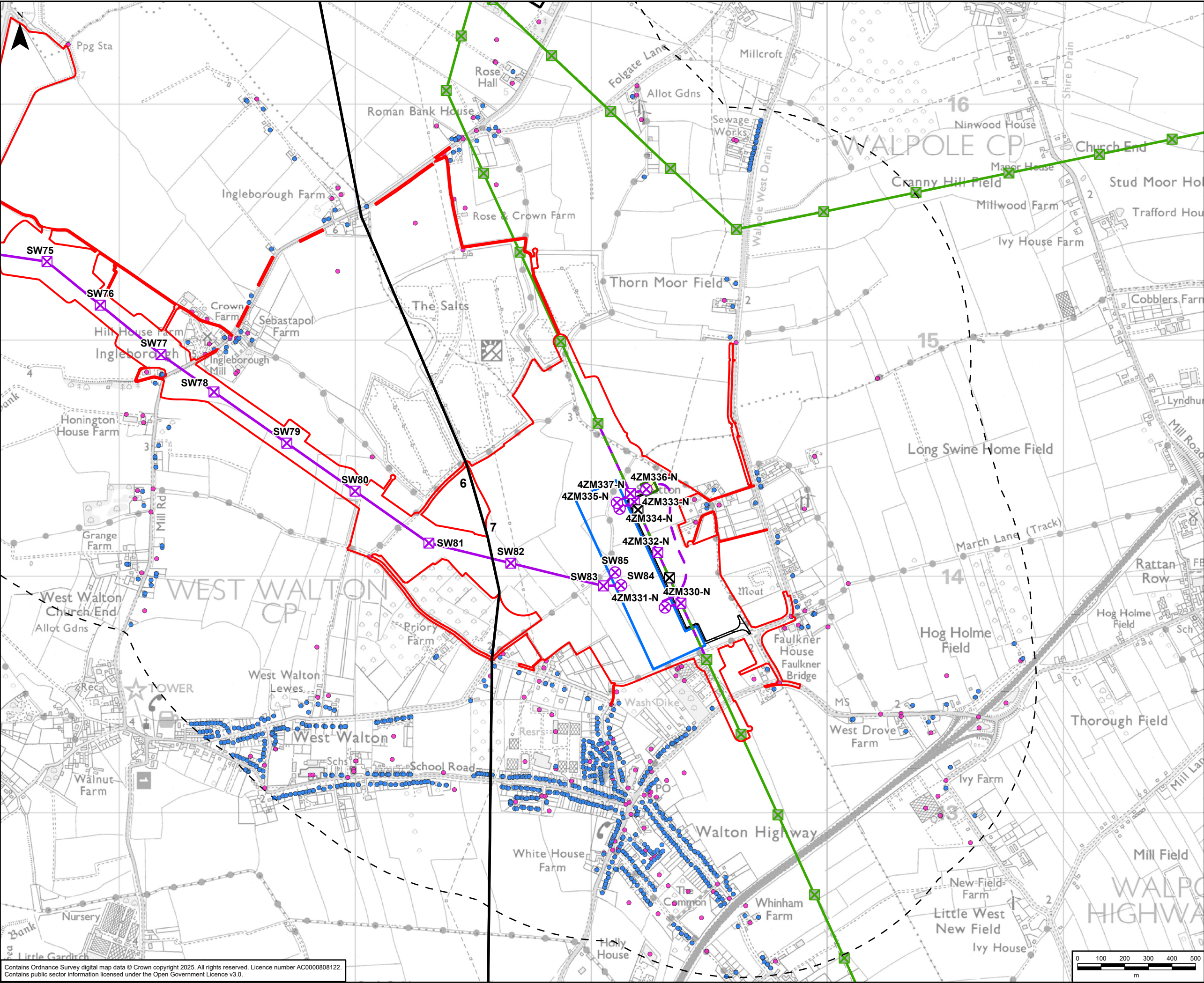
Chapter 10 Noise and Vibration

Figures

June 2025

Volume 2 Part B Section 7 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
- Route Section Break
- 1km Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Indicative New Underground Cable
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Indicative New Substation Boundary
- Indicative Cable Sealing End Compound Boundary
- Indicative Permanent Substation Access Route

Address Data

- Residential
- Non-Residential

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

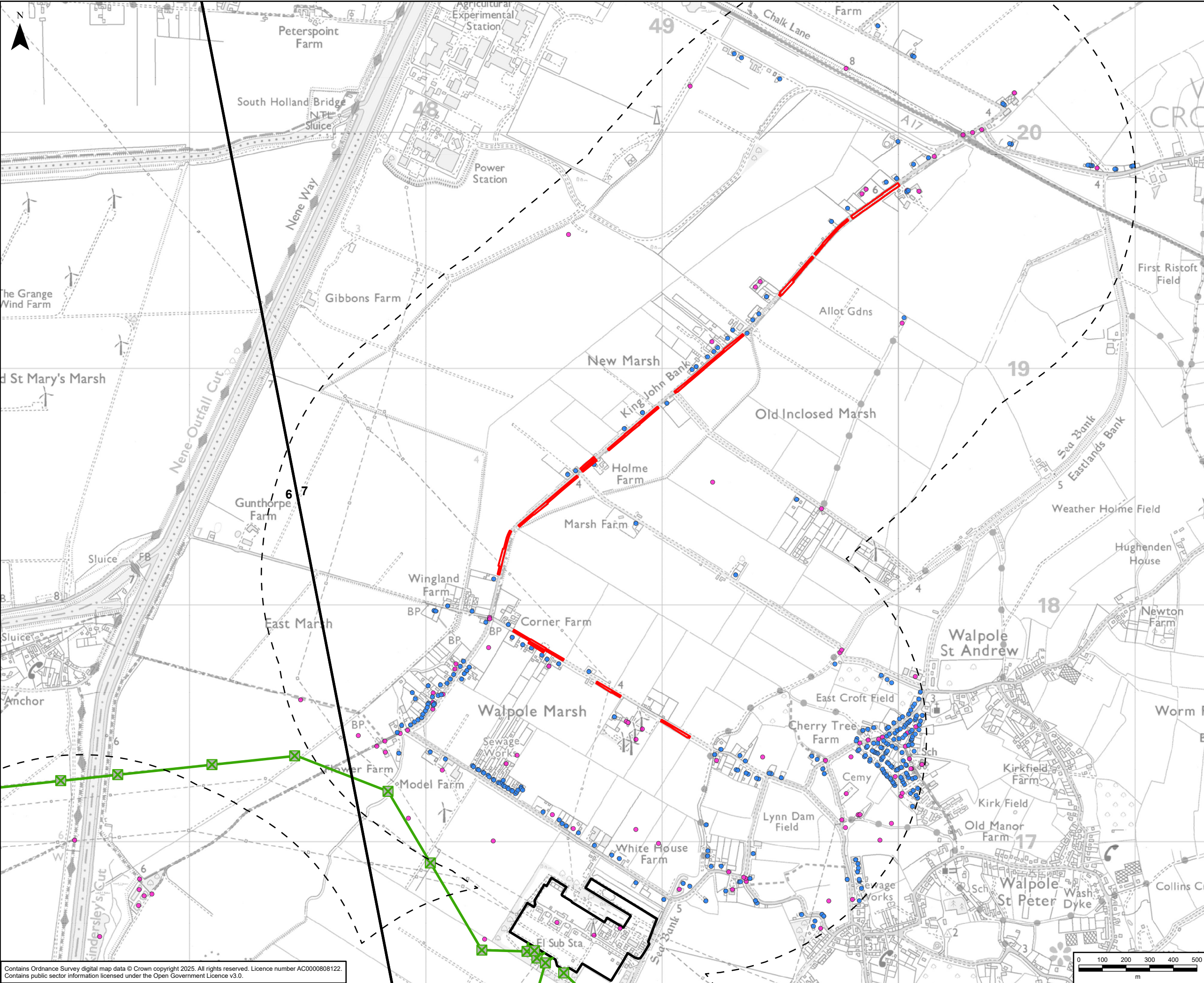
Purpose: PEI REPORT - SECTION 7

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 10.1 NOISE AND VIBRATION STUDY AREA

Creator: LC	Date: 09/05/2025	Checker: DG	Date: 09/05/2025	Approver: DR	Date: 09/05/2025
Document Type: FIGURE	Scale: 1:15,000	Format: A3	Sheets: 1 OF 2	Rev: A	

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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
- Existing Substation Boundary

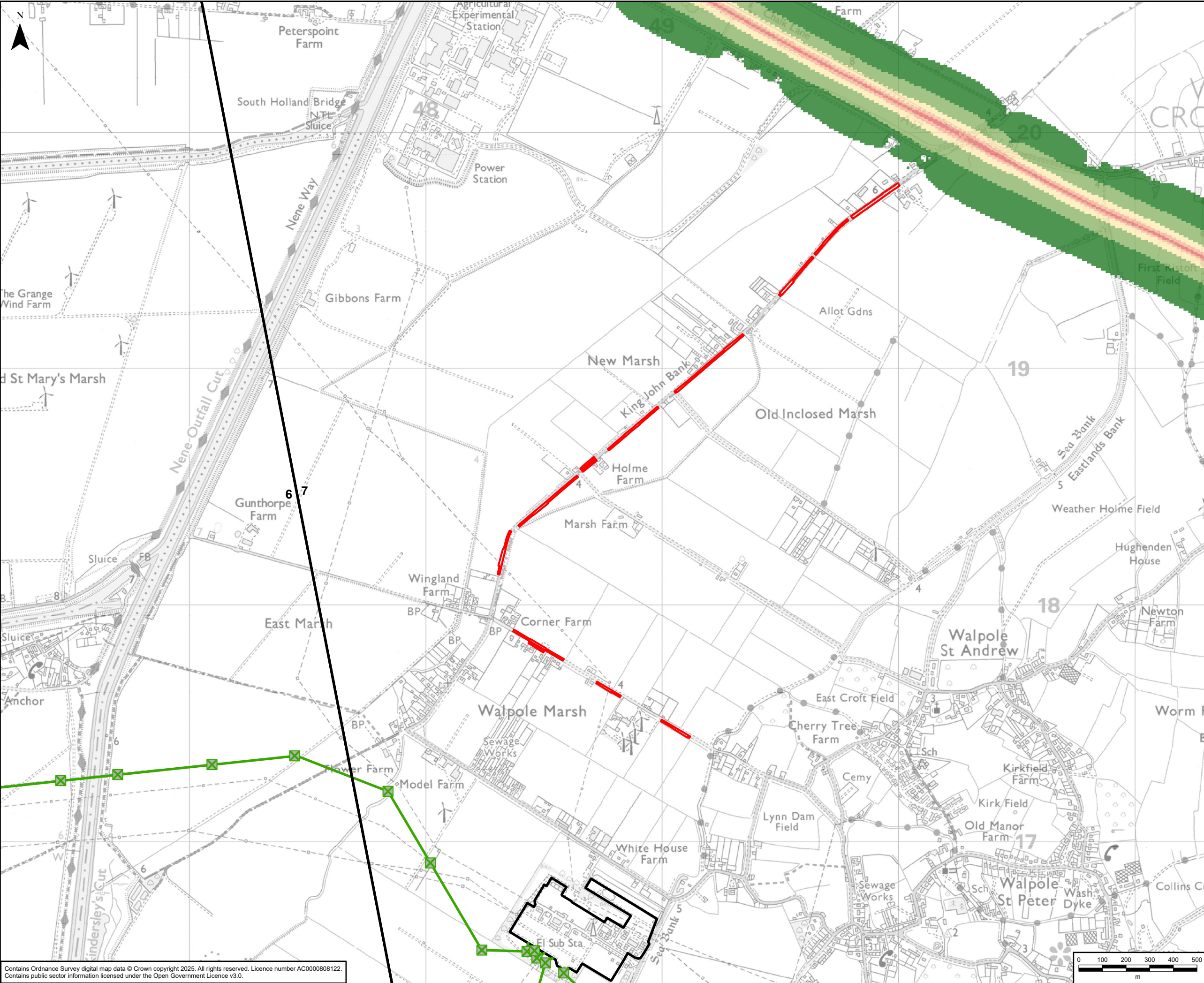
Address Data

- Residential
- Non-Residential

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Purpose:						PEI REPORT - SECTION 7					
Scheme:						GRIMSBY TO WALPOLE					
Document Title:						FIGURE 10.1 NOISE AND VIBRATION STUDY AREA					
Creator:	Date:	Checker:	Date:	Approver:	Date:	LC	09/05/2025	DG	09/05/2025	DR	09/05/2025
Document Type:	Scale:	Format:	Sheets:	Rev:							
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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
- Existing Substation Boundary

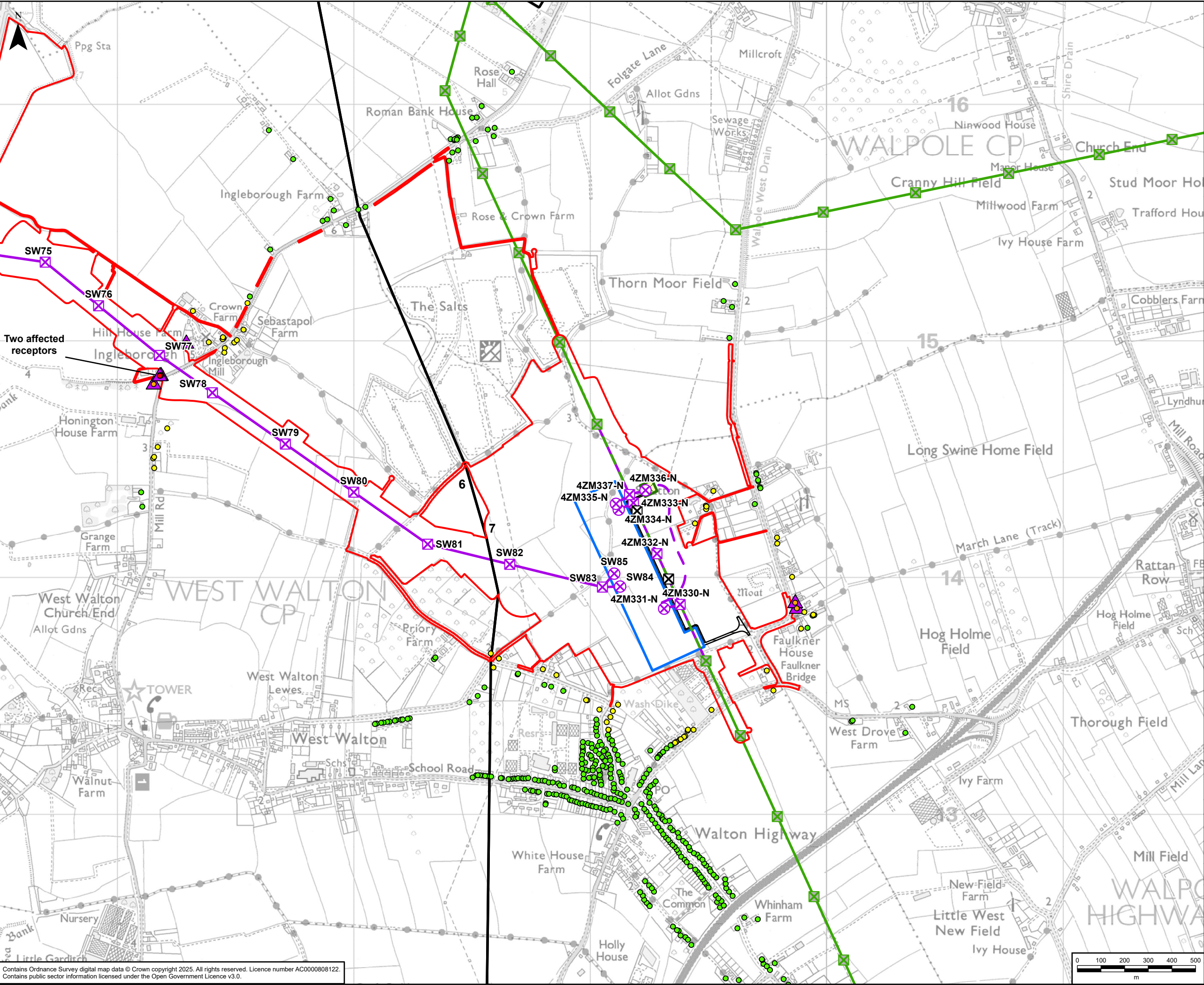
Defra Noise Data (Road) - dBA

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

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Purpose:						PEI REPORT - SECTION 7					
Scheme:						GRIMSBY TO WALPOLE					
Document Title:						FIGURE 10.2 NOISE AND VIBRATION BASELINE					
Creator:	Date:	Checker:	Date:	Approver:	Date:	Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	09/05/2025	DG	09/05/2025	DR	09/05/2025	LC	09/05/2025	DG	09/05/2025	DR	09/05/2025
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FIGURE		1:15,000		A3		2 OF 2		A			

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GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
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- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Indicative New Substation Boundary
- Indicative Cable Sealing End Compound Boundary
- Indicative Permanent Substation Access Route

Construction Noise Levels

- Negligible
- Small
- Medium
- Large

Construction Noise Assessment

- Significant Adverse Effect - Residential

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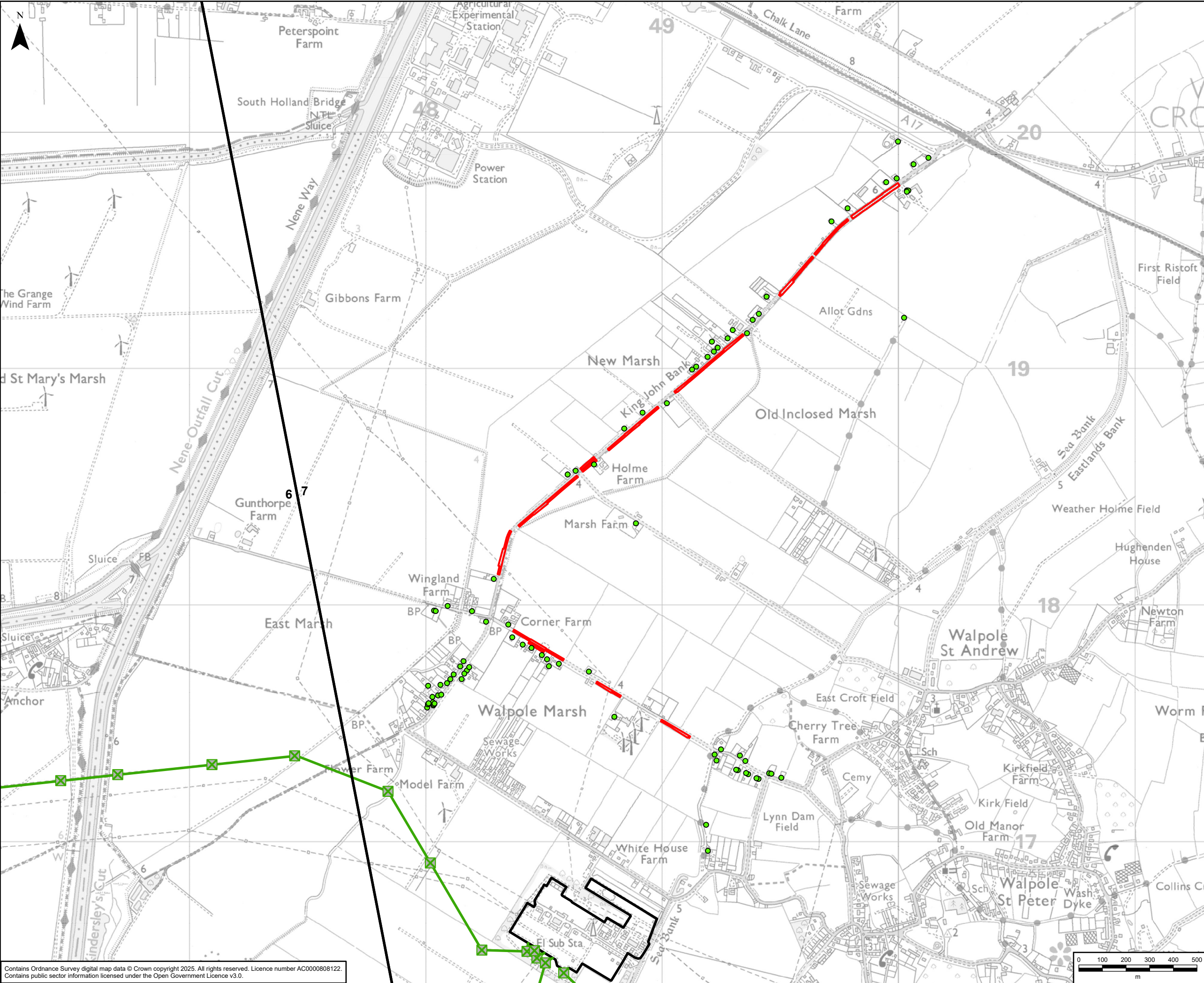
Purpose: PEI REPORT - SECTION 7

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 10.3
INITIAL CONSTRUCTION NOISE ASSESSMENT OUTPUTS

Creater: LC	Date: 09/05/2025	Checker: DG	Date: 09/05/2025	Approver: DR	Date: 09/05/2025
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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
- Existing Substation Boundary

Construction Noise Levels

- Negligible

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PEI REPORT - SECTION 7

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GRIMSBY TO WALPOLE

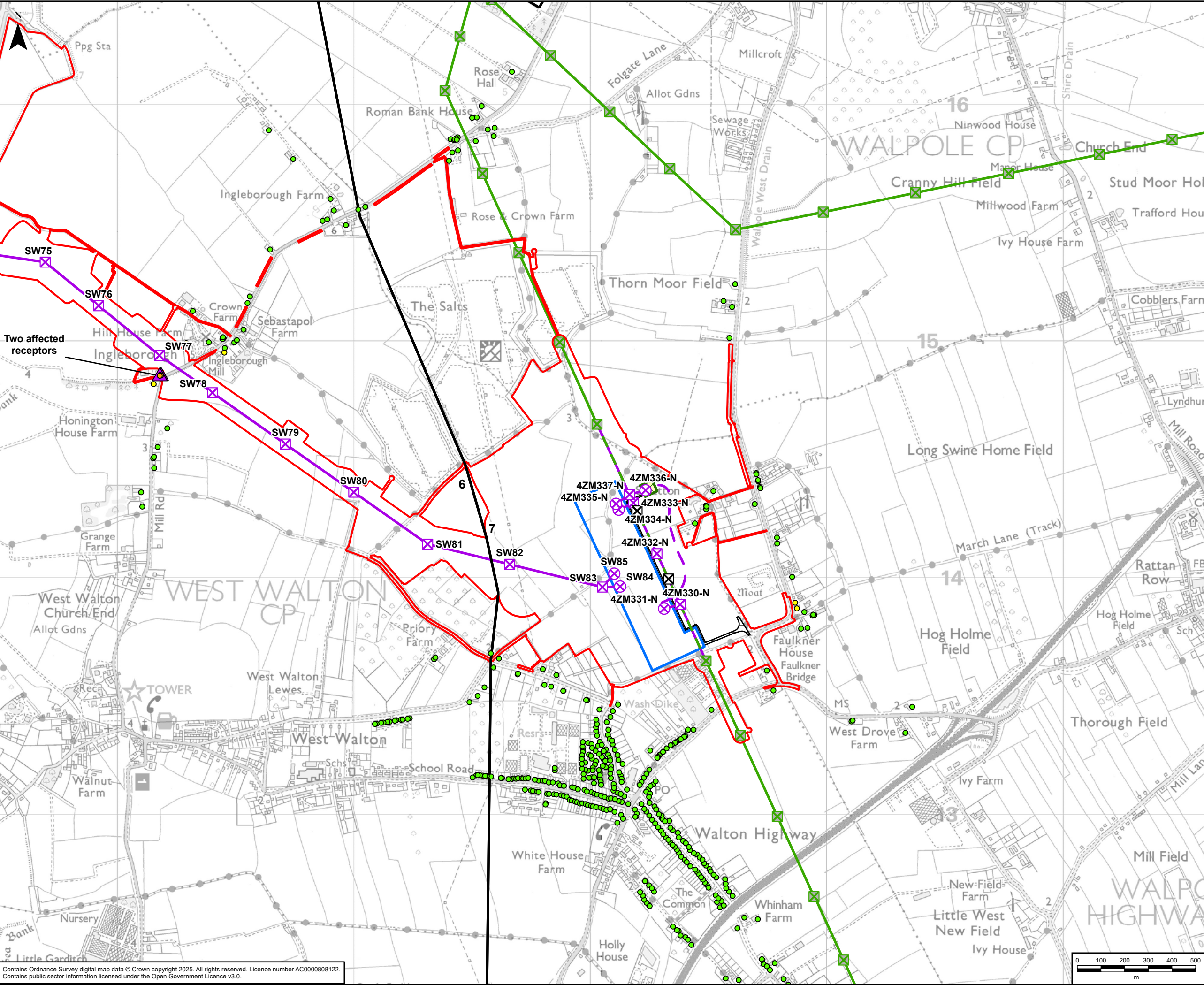
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FIGURE 10.3
INITIAL CONSTRUCTION NOISE ASSESSMENT OUTPUTS

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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	2 OF 2	A

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GRIMSBY TO WALPOLE LEGEND

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- Indicative New Substation Boundary
- Indicative Cable Sealing End Compound Boundary
- Indicative Permanent Substation Access Route

Construction Vibration Levels

- Negligible
- Small
- Medium

Construction Vibration Assessment

- Significant Adverse Effect - Residential

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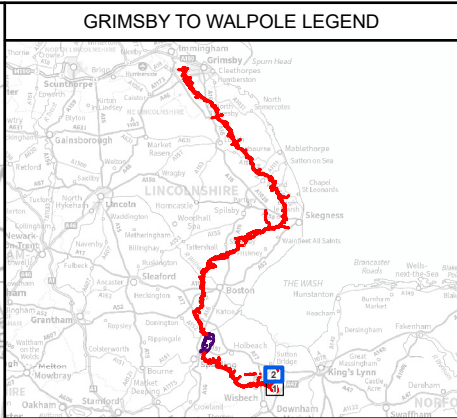
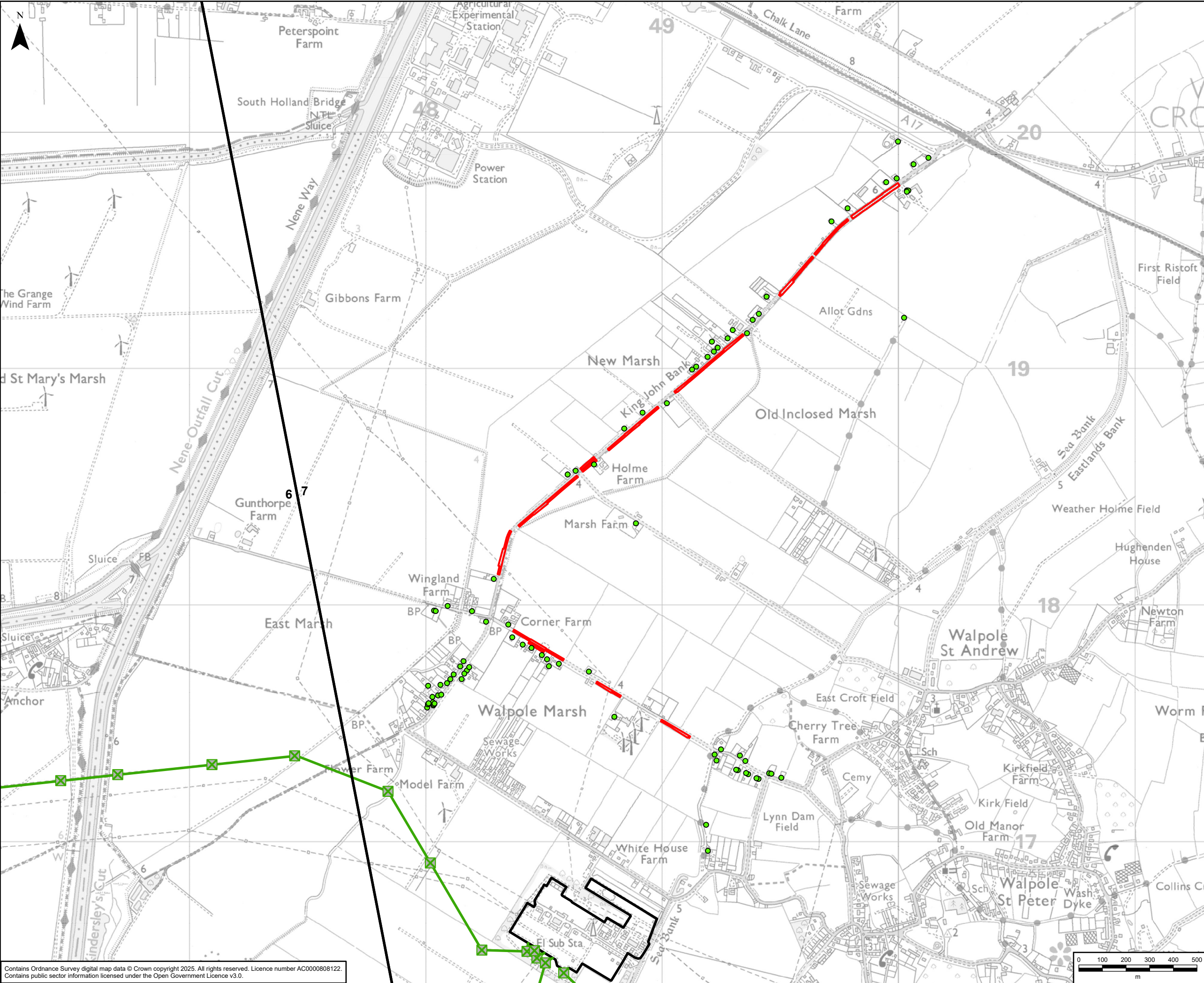
Purpose: PEI REPORT - SECTION 7

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 10.4
INITIAL CONSTRUCTION VIBRATION ASSESSMENT OUTPUTS

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- Legend**
- Draft Order Limits
 - Route Section Break
 - ✕ Existing Lattice Pylon - Not Affected
 - Existing Overhead Line - Not Affected
 - Existing Substation Boundary
 - Construction Vibration Levels
 - Negligible

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Rev	Date	Description	GIS	Chk	App

nationalgrid

Purpose: PEI REPORT - SECTION 7

Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 10.4
INITIAL CONSTRUCTION VIBRATION
ASSESSMENT OUTPUTS**

Creator: LC	Date: 09/05/2025	Checker: DG	Date: 09/05/2025	Approver: DR	Date: 09/05/2025
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