

BT-NG-020621-545-0181

Bramford to Twinstead Reinforcement

Volume 6: Environmental Information

Document 6.4.9: Environmental Statement
Figures (Part 9)

Final Issue A
April 2023

Planning Inspectorate Reference: EN020002

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



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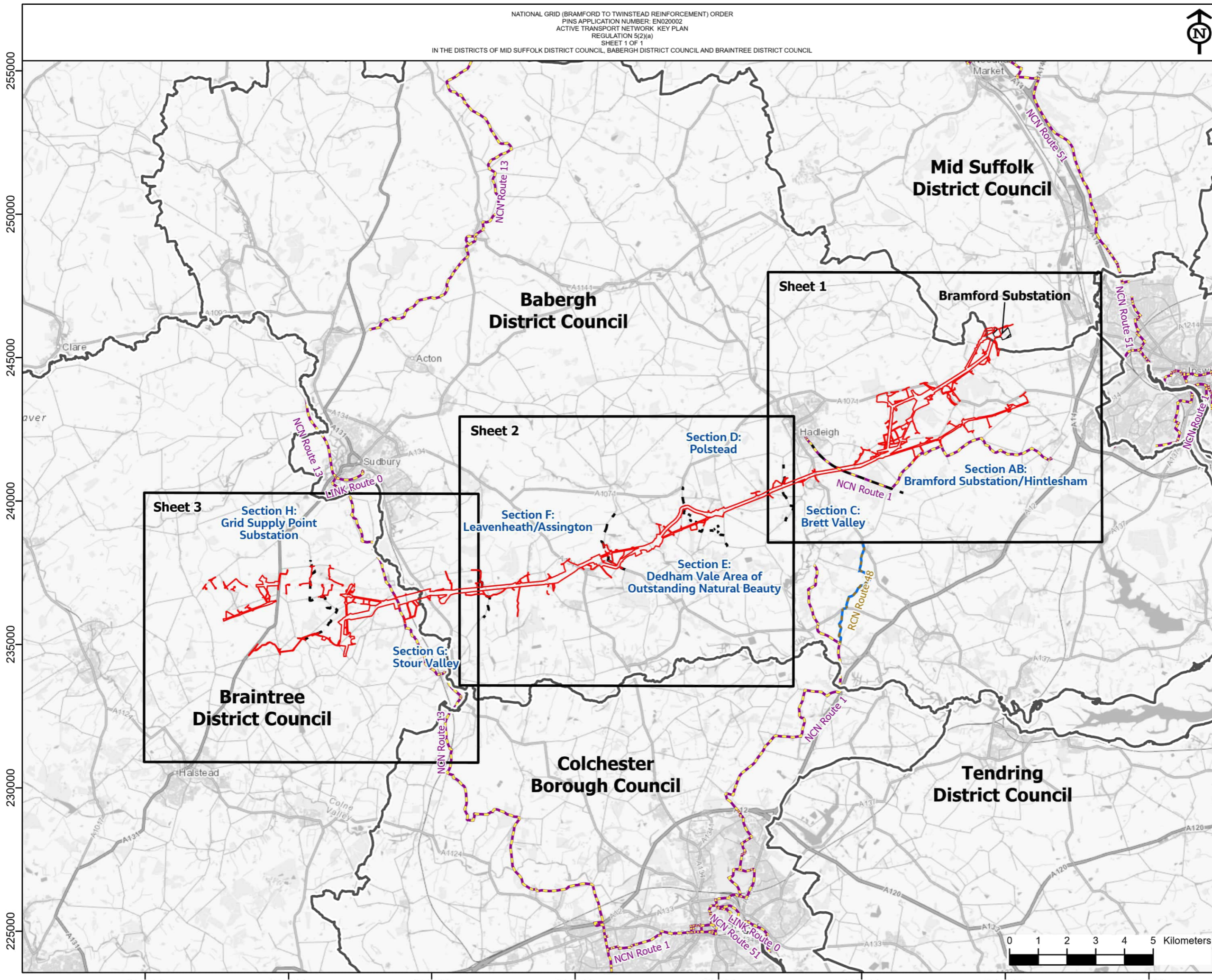
Figure 14.1: Noise Baseline



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Legend

- Section boundaries
- Order Limits
- ▭ Local authority districts
- ▨ Existing Bramford Substation
- National Cycle Network (NCN)
- Regional Cycle Network (RCN)



NG Investment No. ETX/01142

ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	04/2023	Rev A for DCO Application	GW	FA	CW

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nationalgrid

TITLE: Figure 12.2
Active Transport Network Key Plan

CIRCUIT / SITE :
Bramford – Pelham & Bramford – Braintree – Bulls Lodge

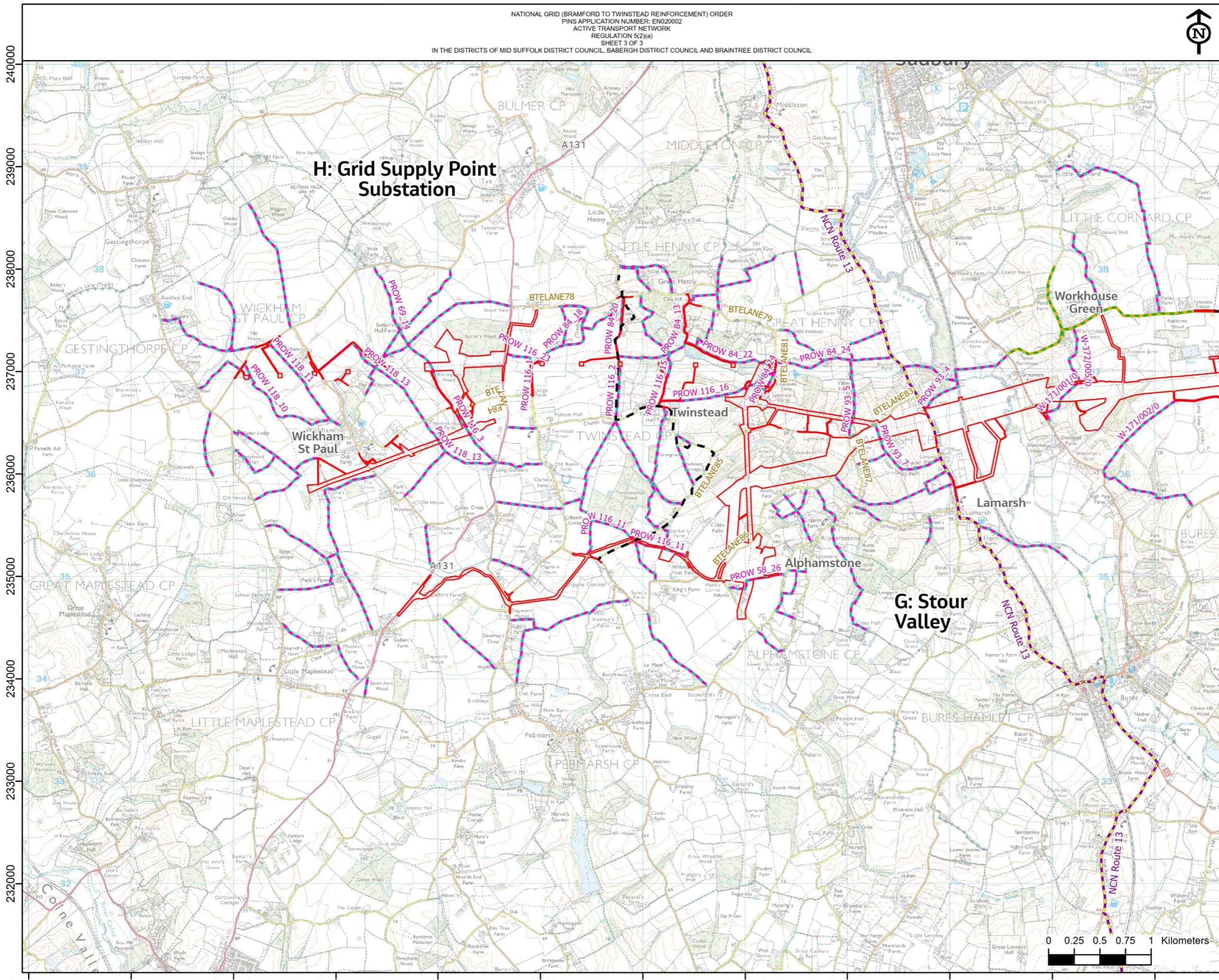
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- Section boundaries
- Order Limits
- Public Rights of Way
- National Cycle Network (NCN)
- Quiet Lanes (Suffolk County)



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TITLE: Figure 12.2
Active Transport Network

CIRCUIT / SITE :
Bramford – Pelham & Bramford
– Braitree – Bulls Lodge

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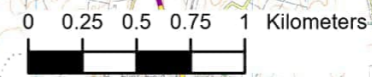
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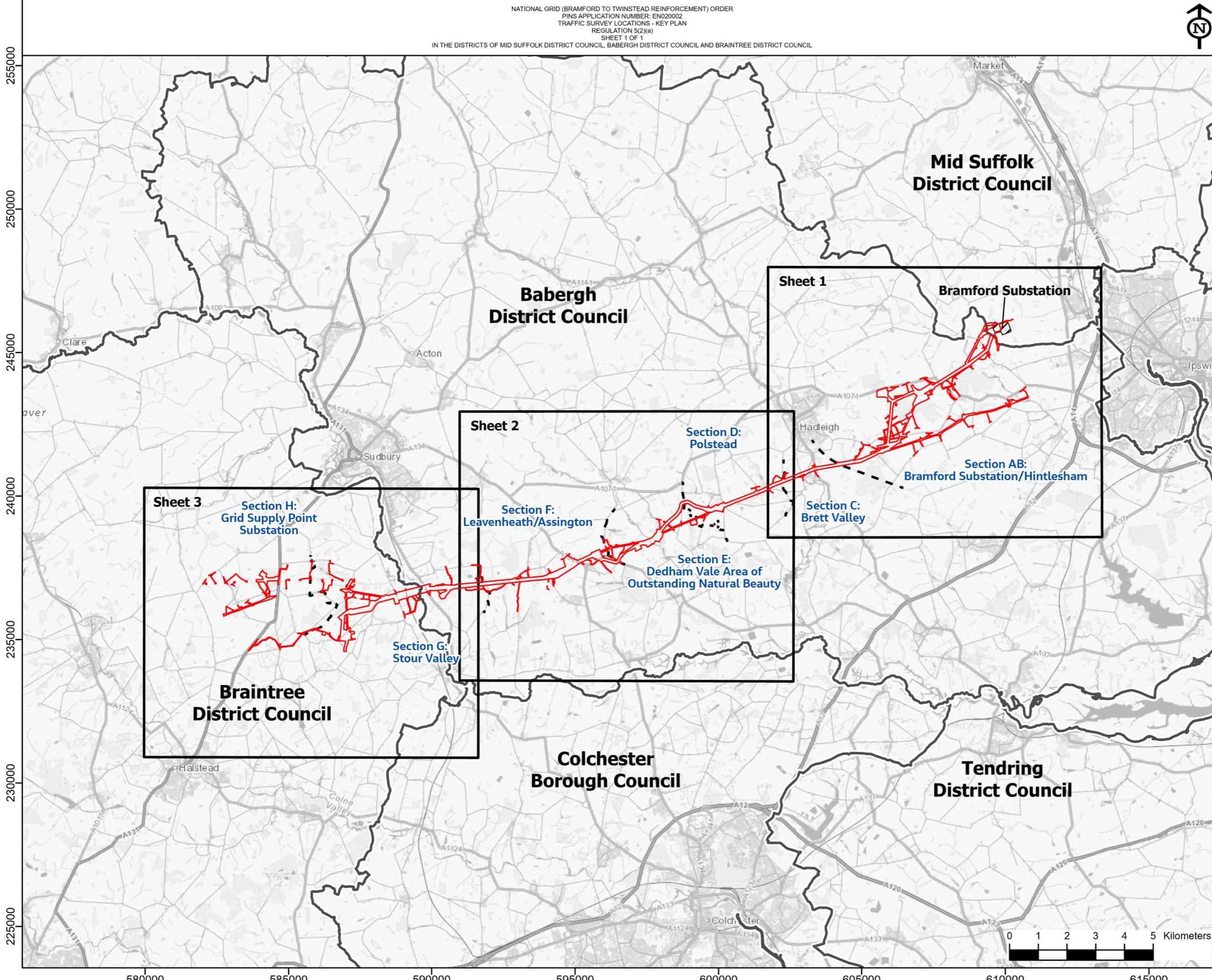
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- Legend**
- Section boundaries
 - Order Limits
 - Local authority districts
 - Existing Bramford Substation



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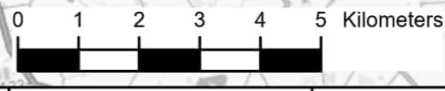


TITLE: Figure 12.3
 Traffic Survey Locations - Key Plan

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 Bramford – Pelham & Bramford – Braintree – Bulls Lodge

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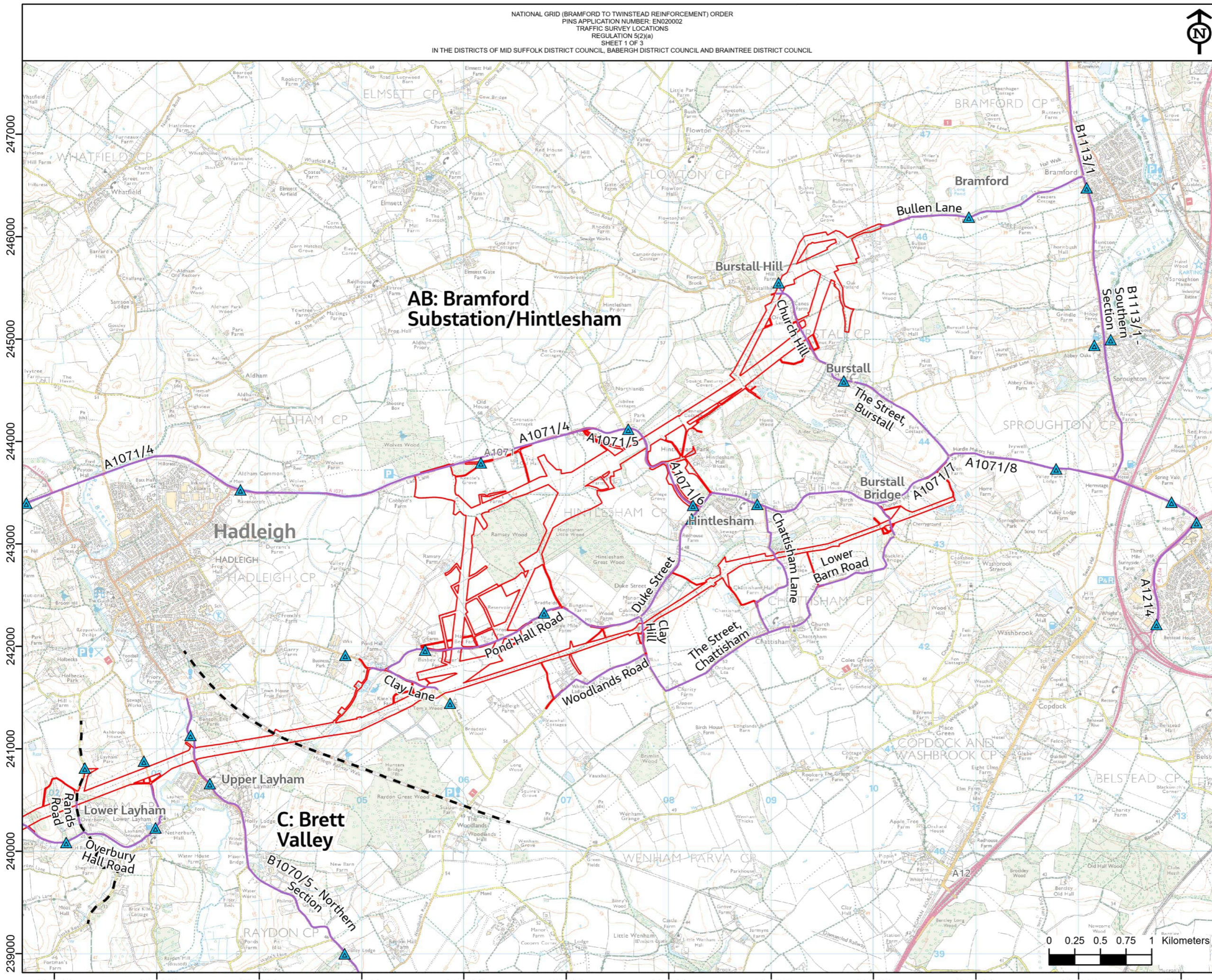
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- Section boundaries
- Order Limits
- ▲ Automatic traffic count location
- Construction routes



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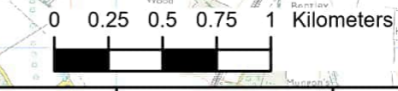
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TITLE: Figure 12.3
Traffic Survey Locations

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Bramford – Pelham & Bramford
– Braintree – Bulls Lodge

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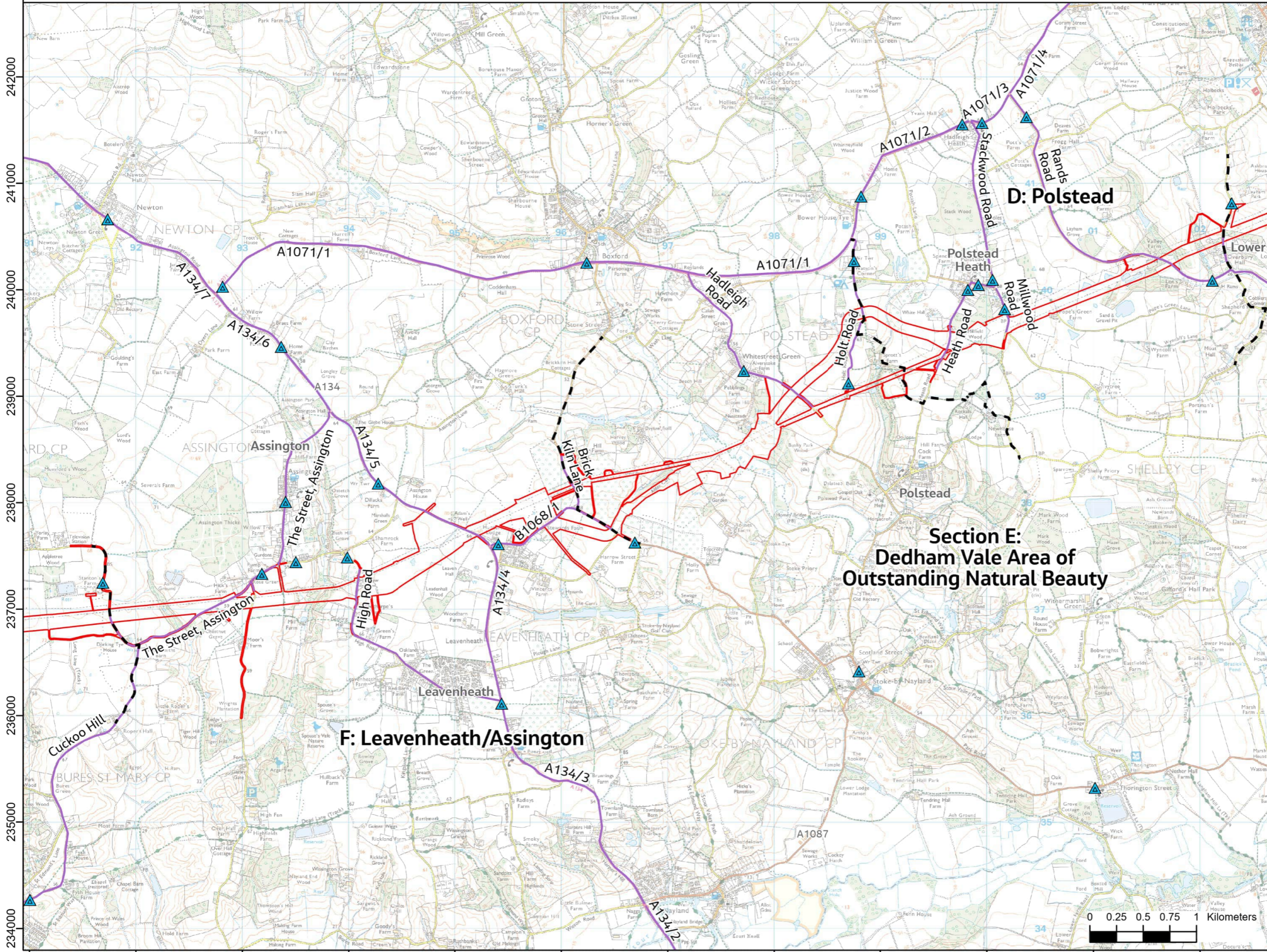
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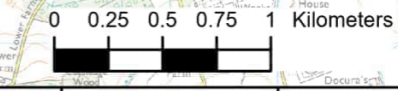
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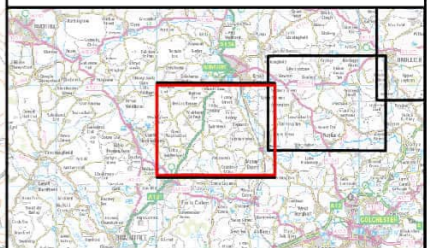
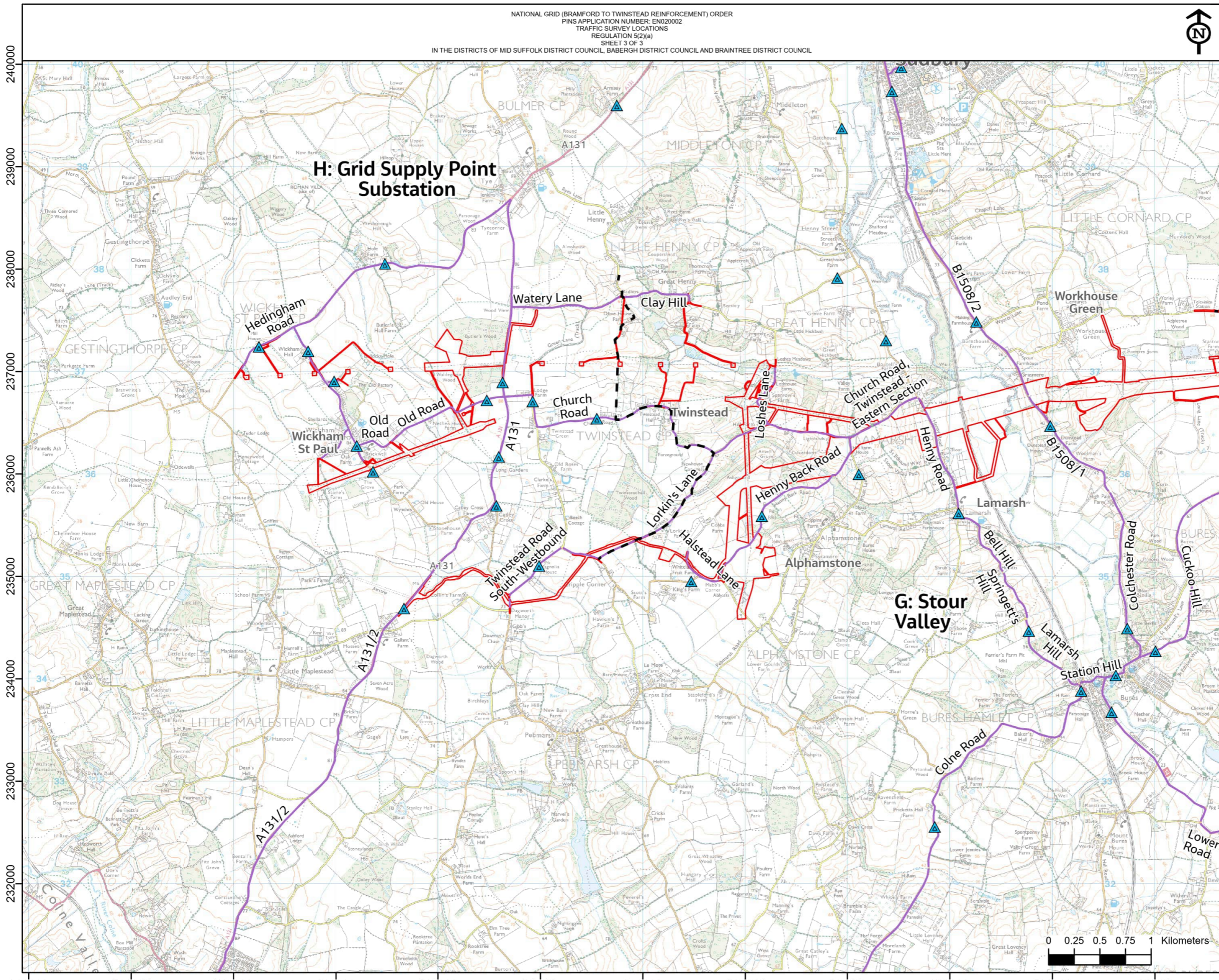
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 – Braitree – Bulls Lodge

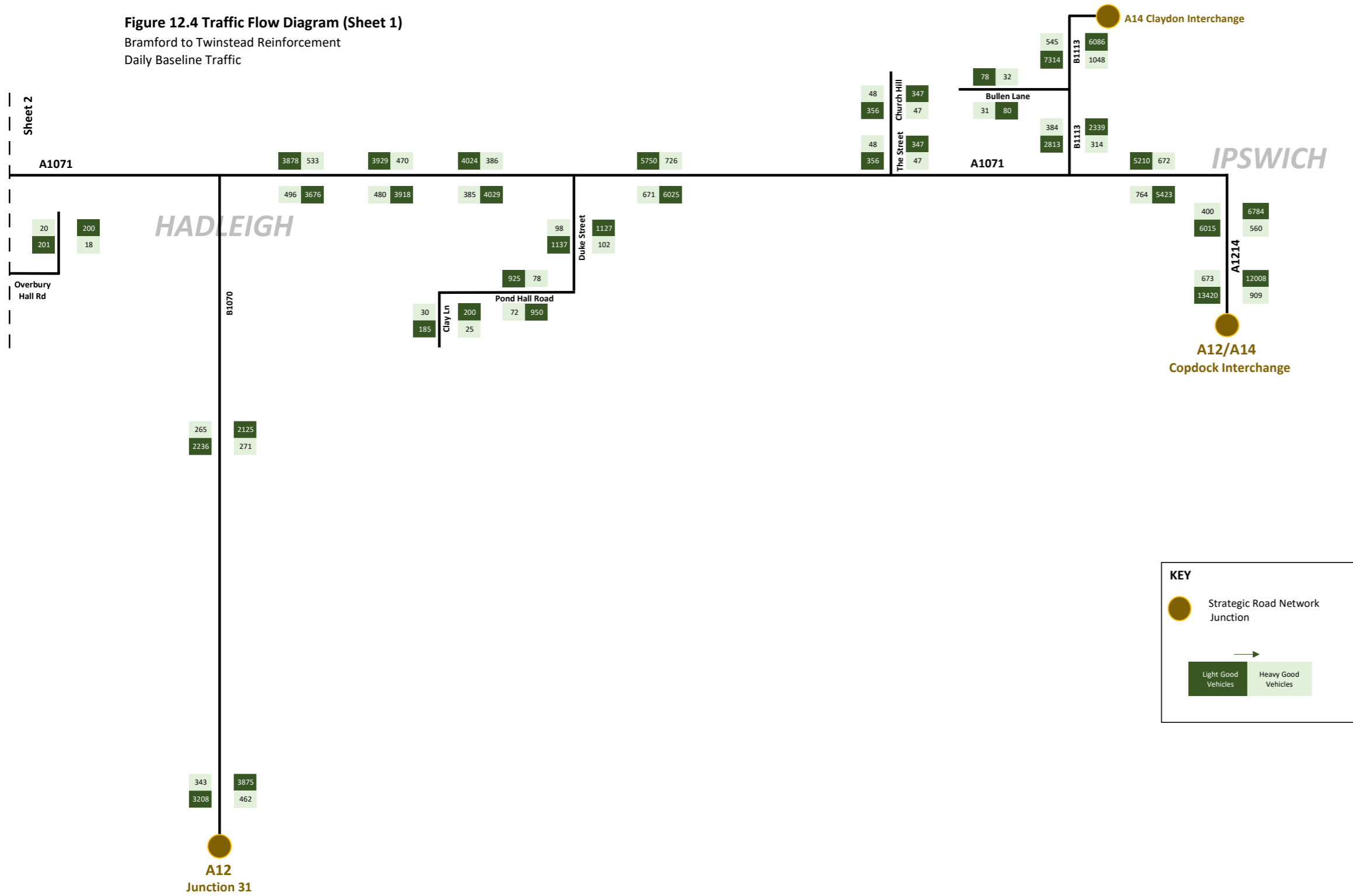
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Figure 12.4 Traffic Flow Diagram (Sheet 1)

Bramford to Twinstead Reinforcement
Daily Baseline Traffic

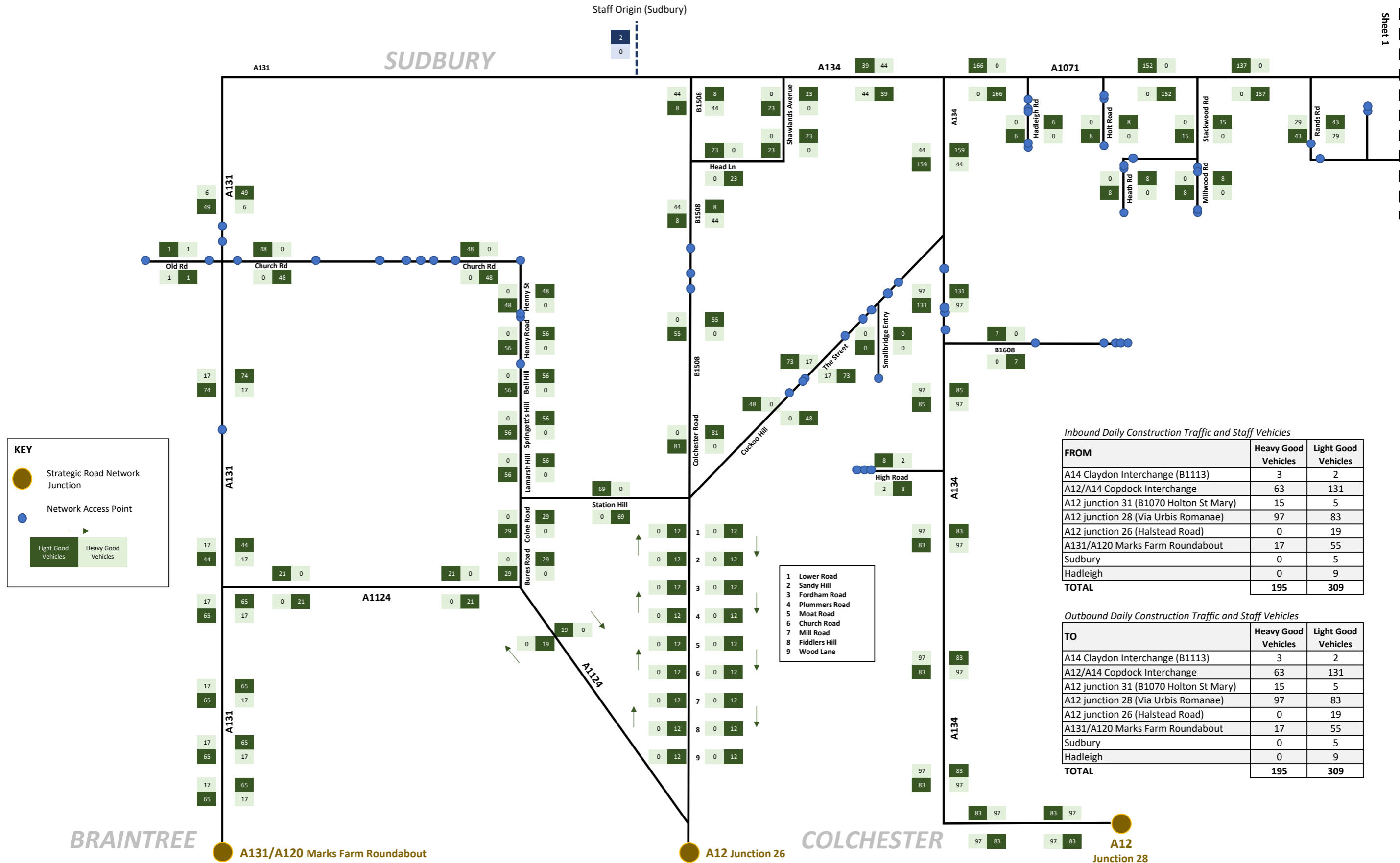


KEY

- Strategic Road Network Junction
- Light Good Vehicles
- Heavy Good Vehicles

Figure 12.4 Traffic Flow Diagram (Sheet 2)

Bramford to Twinstead Reinforcement
Daily Construction Traffic and Staff Vehicles



Inbound Daily Construction Traffic and Staff Vehicles

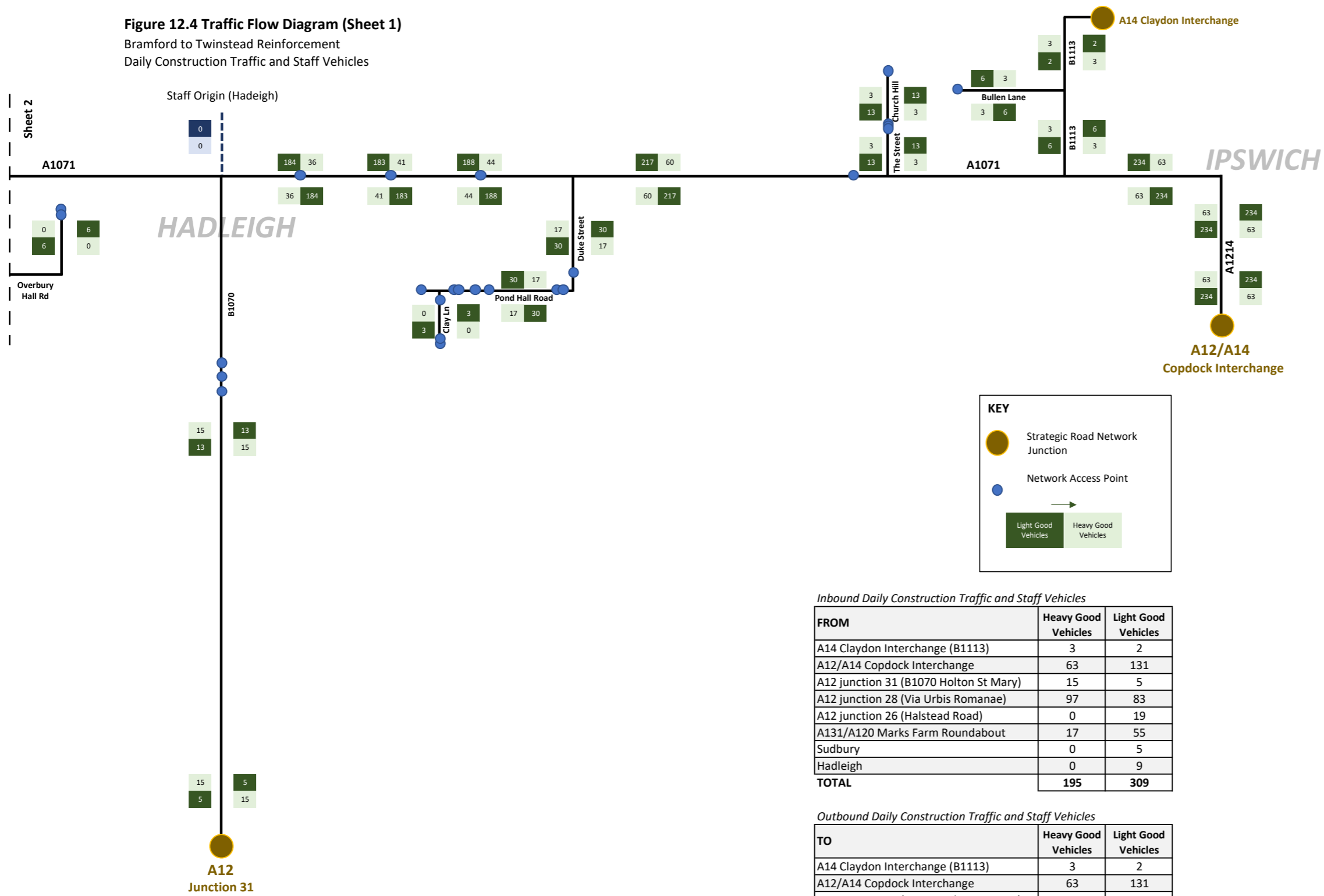
FROM	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
A12/A14 Copdock Interchange	63	131
A12 junction 31 (B1070 Holton St Mary)	15	5
A12 junction 28 (Via Urbis Romanae)	97	83
A12 junction 26 (Halstead Road)	0	19
A131/A120 Marks Farm Roundabout	17	55
Sudbury	0	5
Hadleigh	0	9
TOTAL	195	309

Outbound Daily Construction Traffic and Staff Vehicles

TO	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
A12/A14 Copdock Interchange	63	131
A12 junction 31 (B1070 Holton St Mary)	15	5
A12 junction 28 (Via Urbis Romanae)	97	83
A12 junction 26 (Halstead Road)	0	19
A131/A120 Marks Farm Roundabout	17	55
Sudbury	0	5
Hadleigh	0	9
TOTAL	195	309

Figure 12.4 Traffic Flow Diagram (Sheet 1)

Bramford to Twinstead Reinforcement
Daily Construction Traffic and Staff Vehicles



KEY

- Strategic Road Network Junction
- Network Access Point
- Light Good Vehicles
- Heavy Good Vehicles

Inbound Daily Construction Traffic and Staff Vehicles

FROM	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
A12/A14 Copdock Interchange	63	131
A12 junction 31 (B1070 Holton St Mary)	15	5
A12 junction 28 (Via Urbis Romanae)	97	83
A12 junction 26 (Halstead Road)	0	19
A131/A120 Marks Farm Roundabout	17	55
Sudbury	0	5
Hadleigh	0	9
TOTAL	195	309

Outbound Daily Construction Traffic and Staff Vehicles

TO	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
A12/A14 Copdock Interchange	63	131
A12 junction 31 (B1070 Holton St Mary)	15	5
A12 junction 28 (Via Urbis Romanae)	97	83
A12 junction 26 (Halstead Road)	0	19
A131/A120 Marks Farm Roundabout	17	55
Sudbury	0	5
Hadleigh	0	9
TOTAL	195	309

Figure 12.4 Traffic Flow Diagram (Sheet 2)

Bramford to Twinstead Reinforcement
Daily Future Baseline Traffic

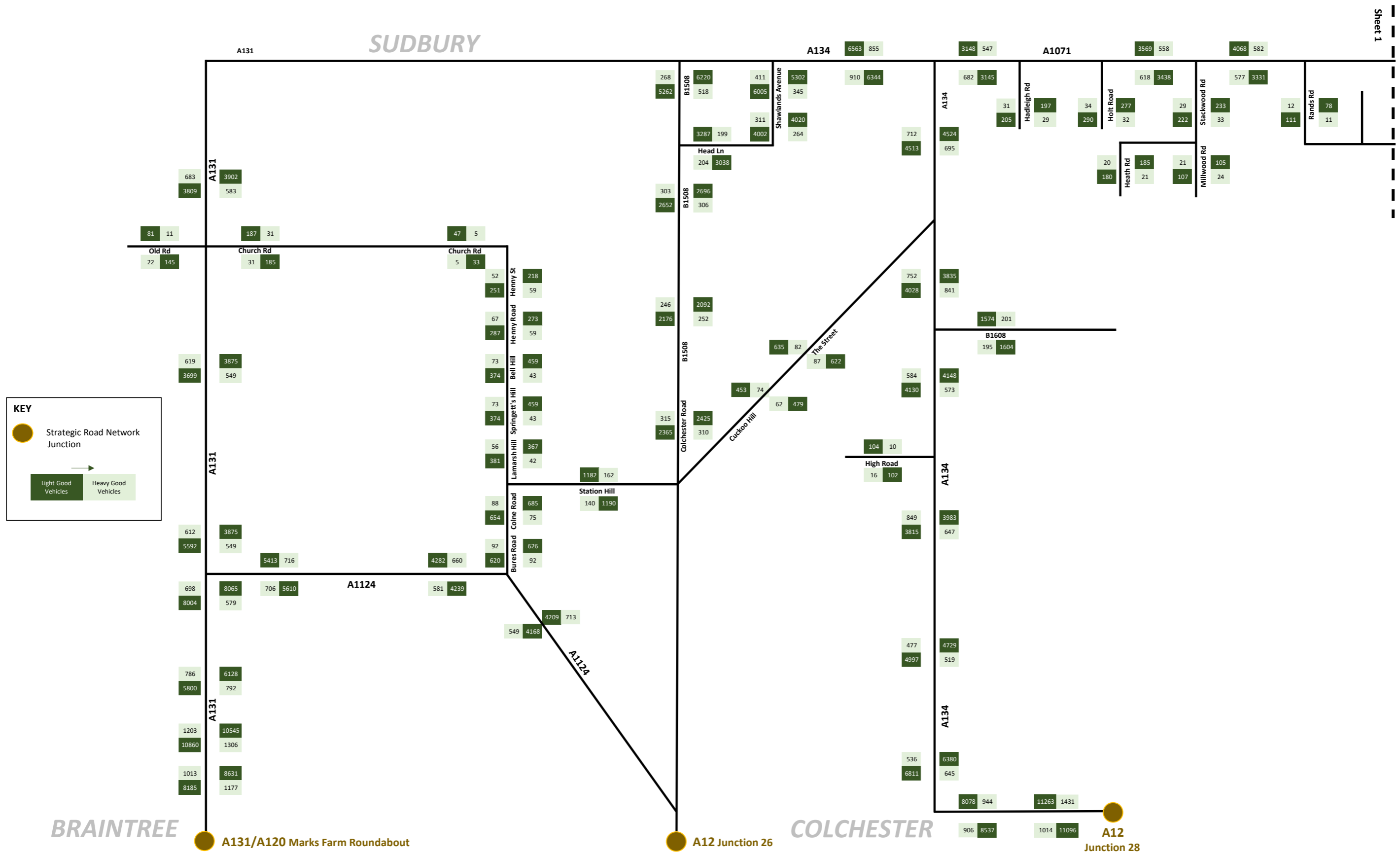
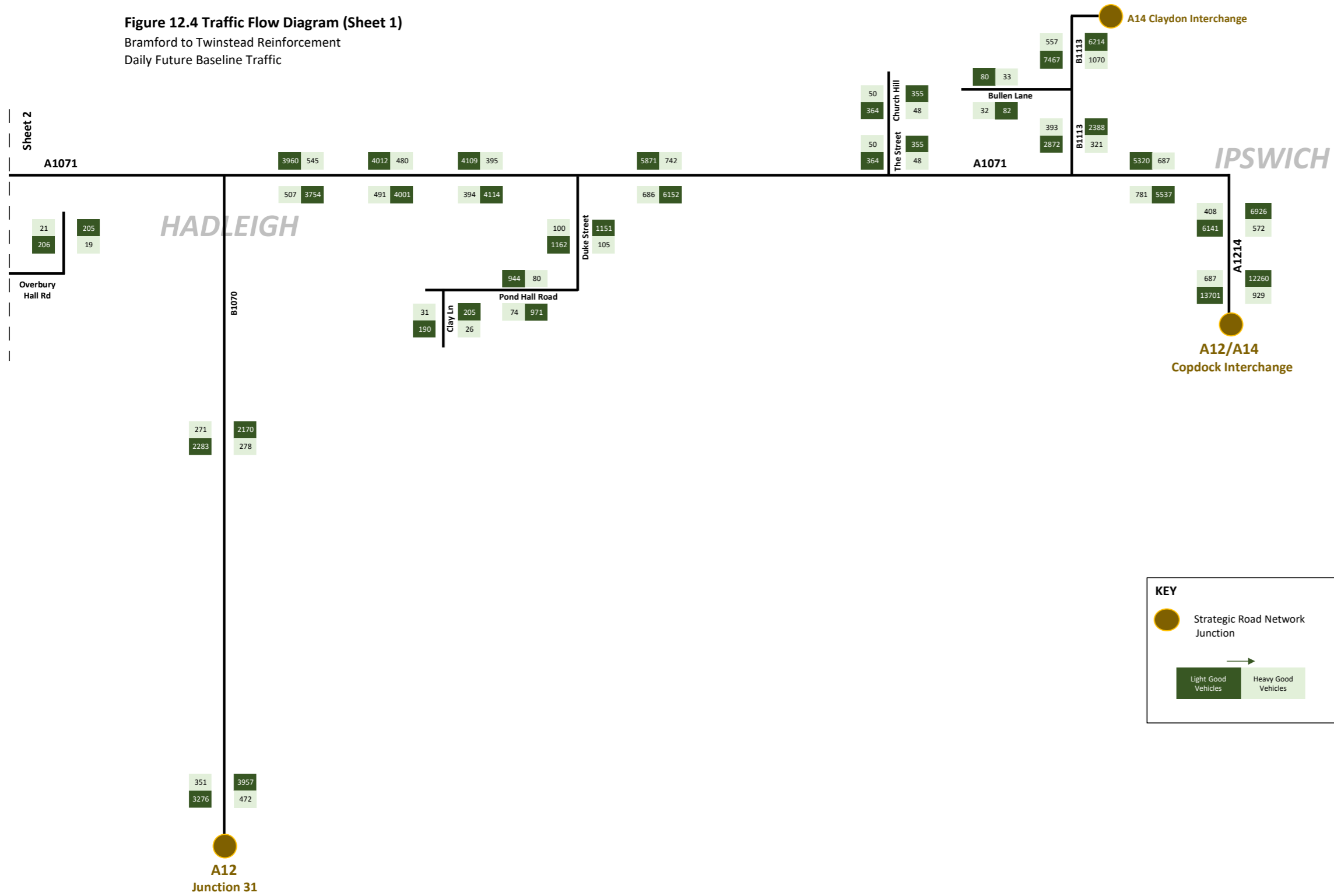


Figure 12.4 Traffic Flow Diagram (Sheet 1)

Bramford to Twinstead Reinforcement
Daily Future Baseline Traffic



KEY

- Strategic Road Network Junction

Light Good Vehicles	→	Heavy Good Vehicles
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Figure 12.4 Traffic Flow Diagram (Sheet 2)

Bramford to Twinstead Reinforcement
Daily Future Baseline Traffic + Daily Construction Traffic and Staff Vehicles

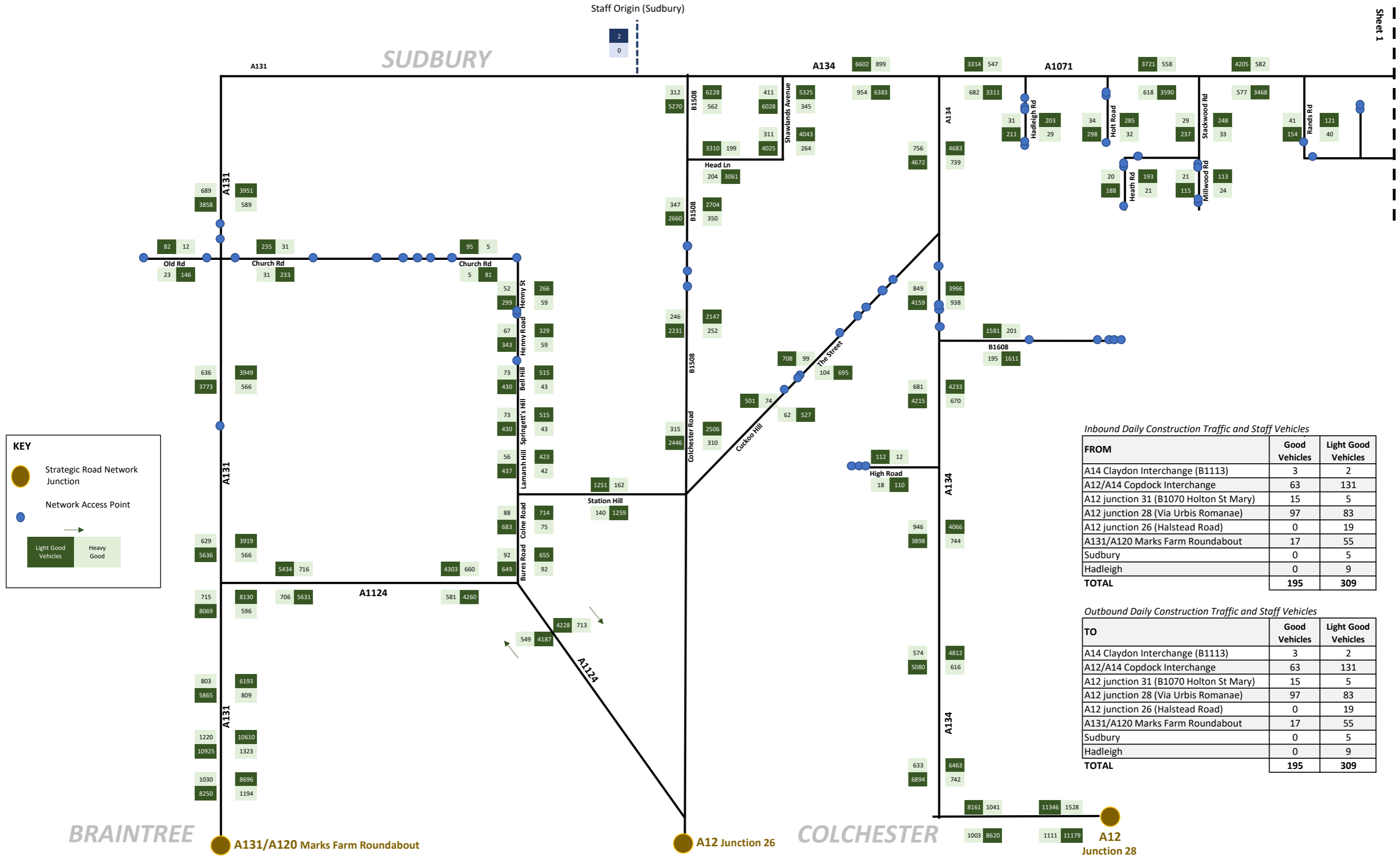
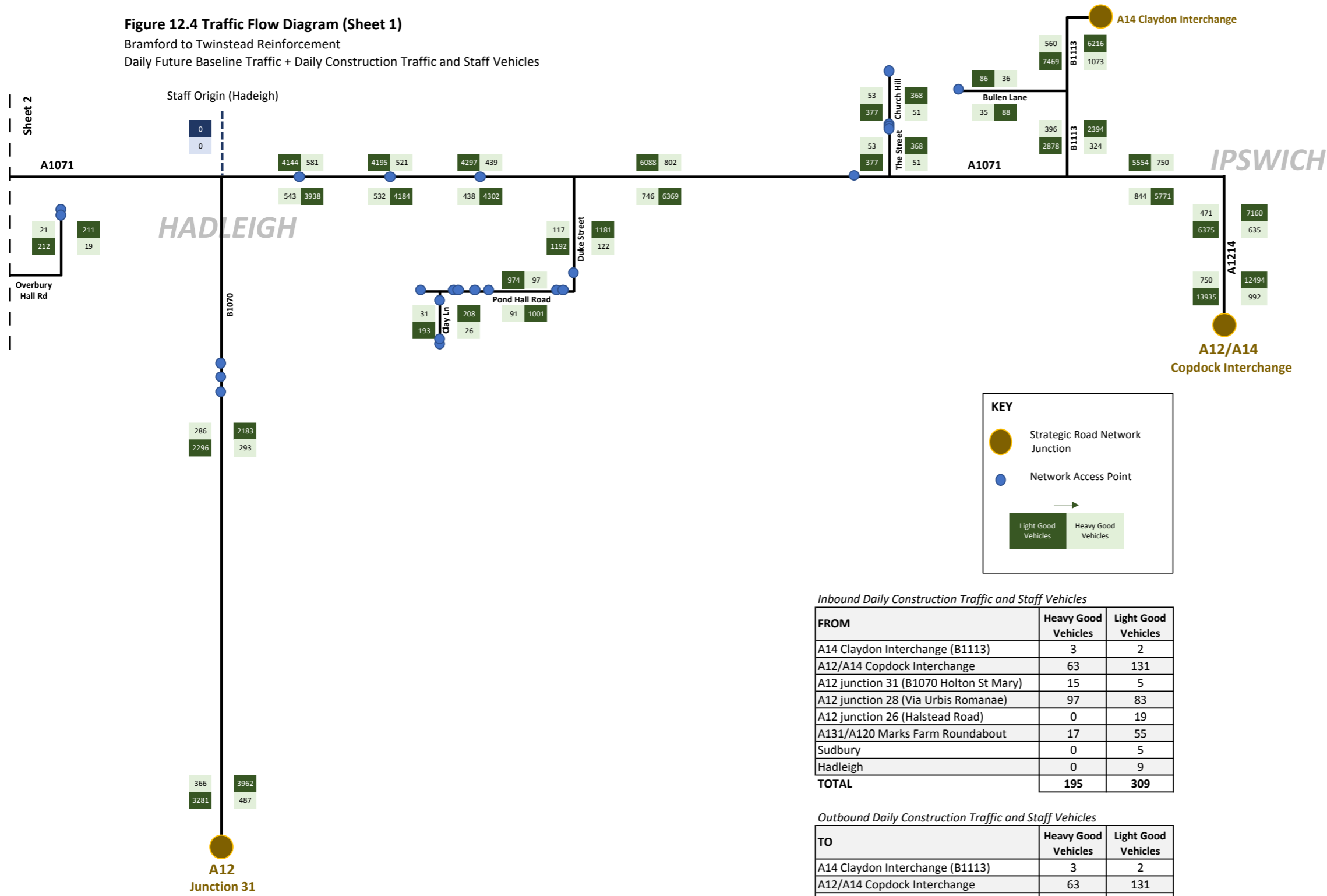


Figure 12.4 Traffic Flow Diagram (Sheet 1)

Bramford to Twinstead Reinforcement
Daily Future Baseline Traffic + Daily Construction Traffic and Staff Vehicles



Inbound Daily Construction Traffic and Staff Vehicles

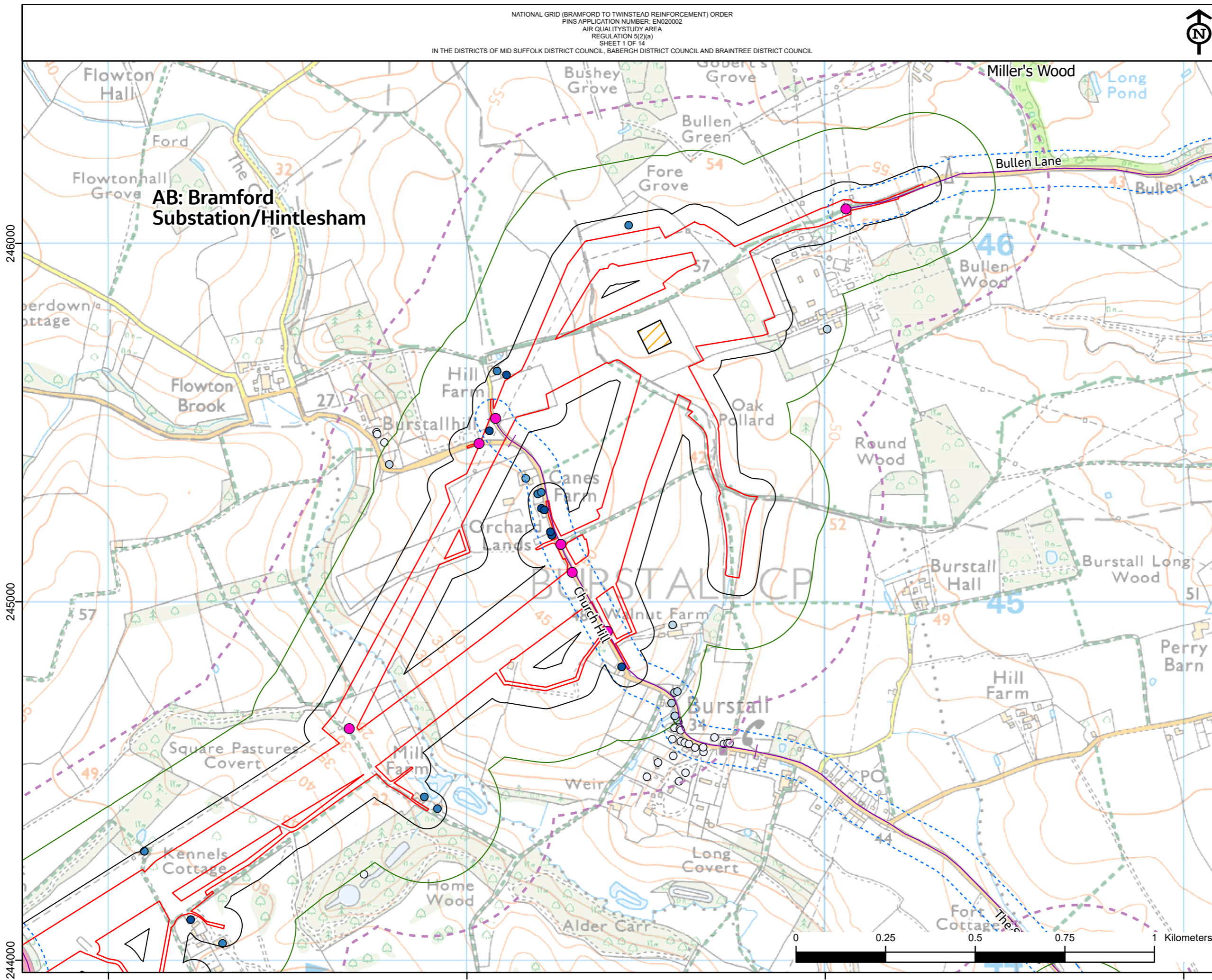
FROM	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
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A131/A120 Marks Farm Roundabout	17	55
Sudbury	0	5
Hadleigh	0	9
TOTAL	195	309

Outbound Daily Construction Traffic and Staff Vehicles

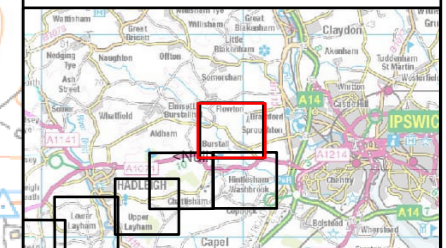
TO	Heavy Good Vehicles	Light Good Vehicles
A14 Claydon Interchange (B1113)	3	2
A12/A14 Copdock Interchange	63	131
A12 junction 31 (B1070 Holton St Mary)	15	5
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TOTAL	195	309



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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
- Air quality study area and buffers**
- Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

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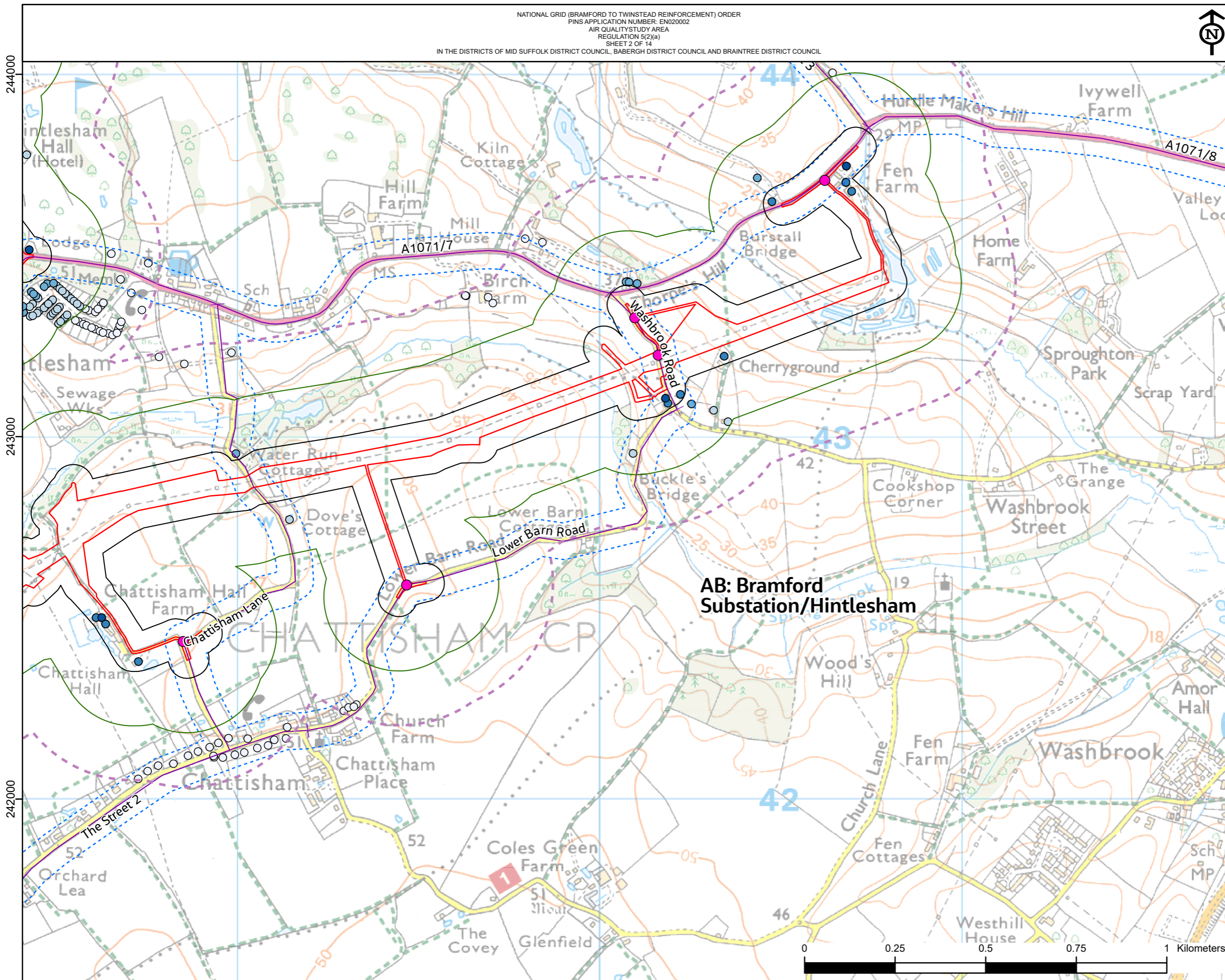
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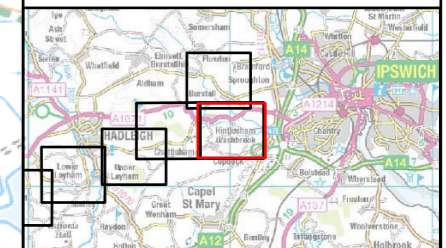
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TITLE: Figure 13.1 Air Quality Study Area

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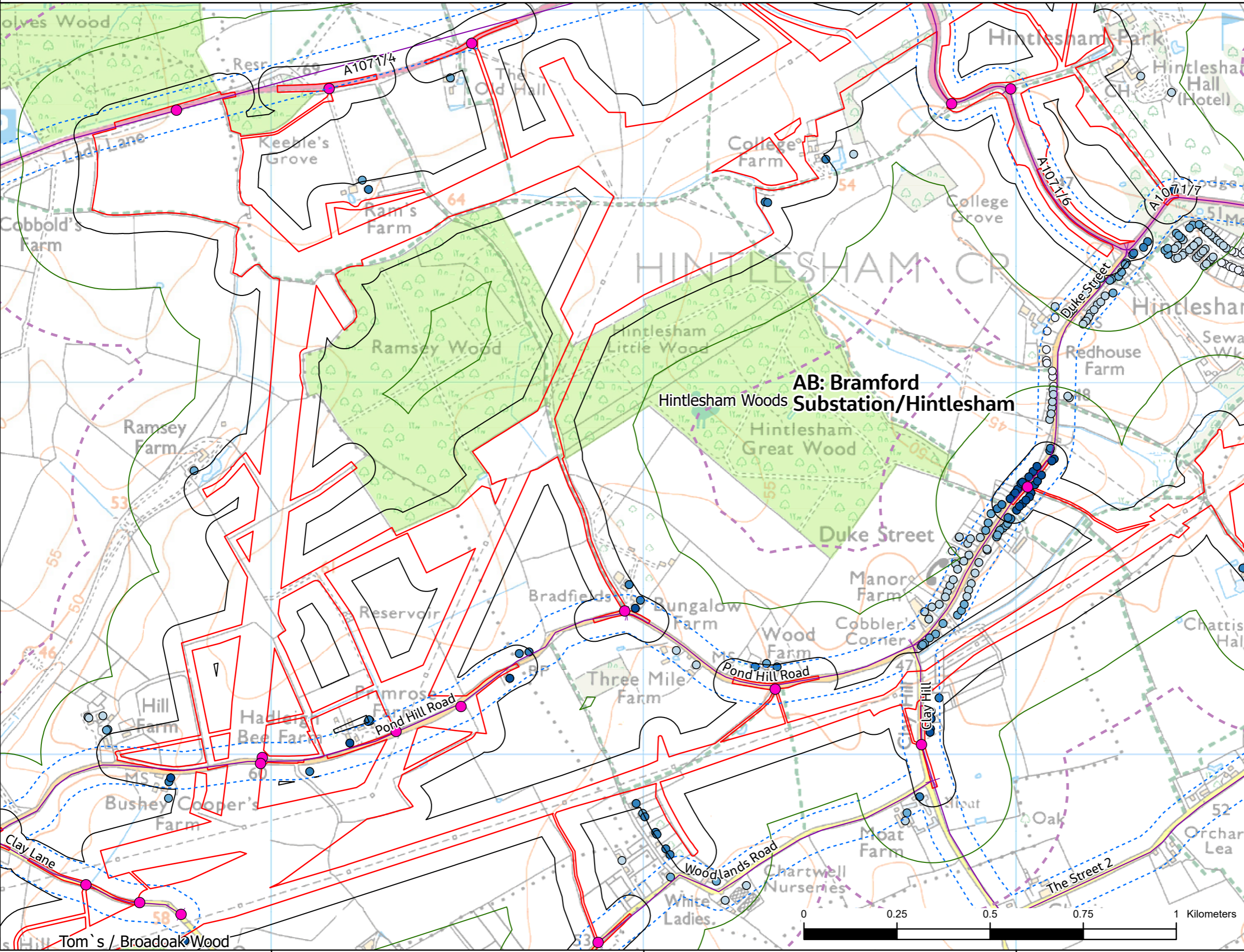
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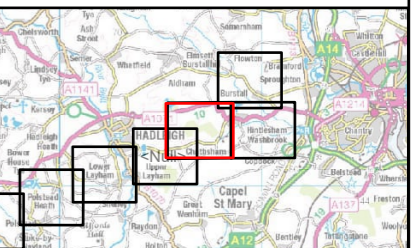


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- Legend**
- Section boundaries
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TITLE: **Figure 13.1 Air Quality Study Area**

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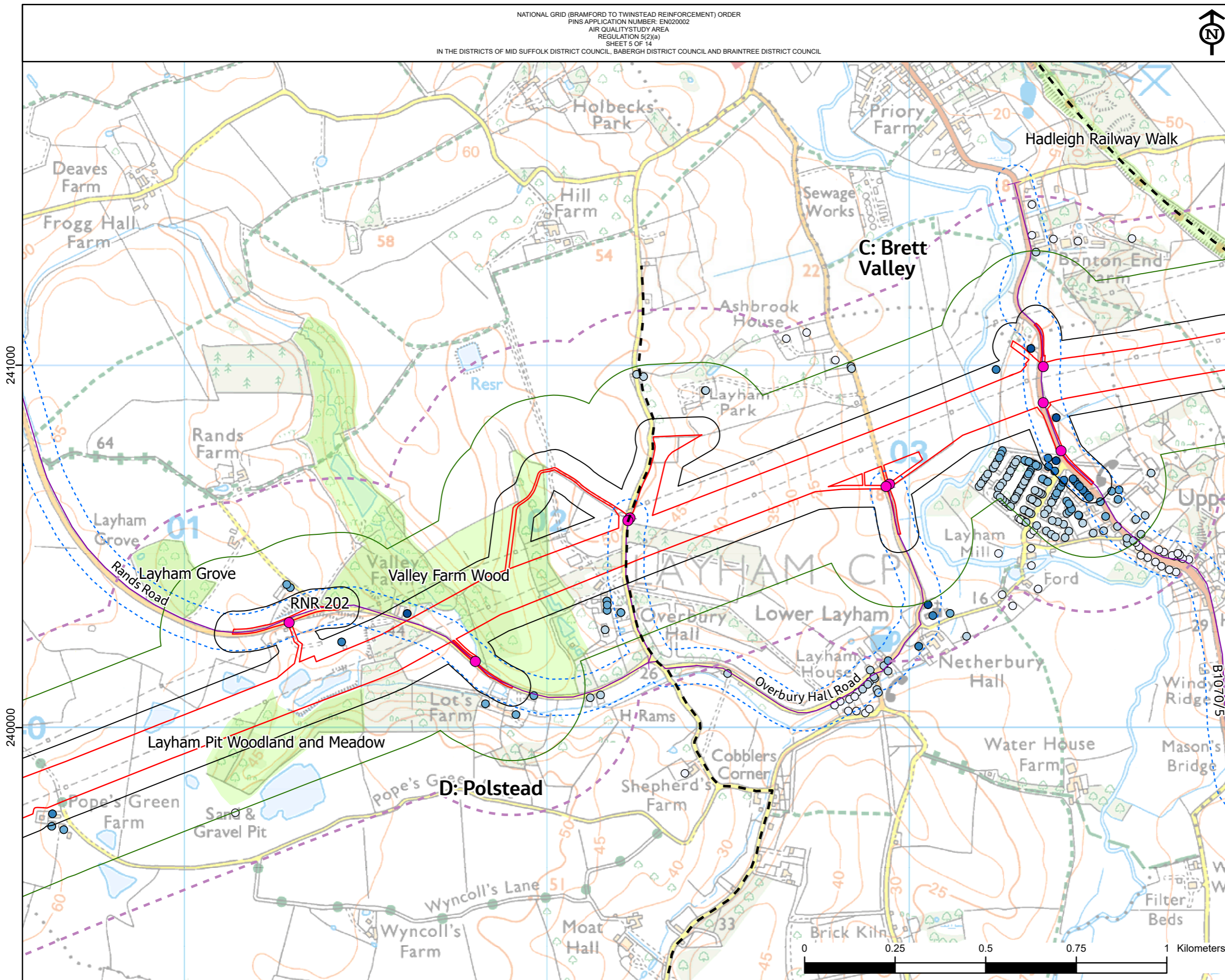
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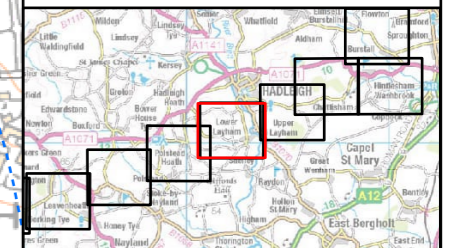
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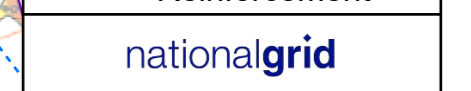
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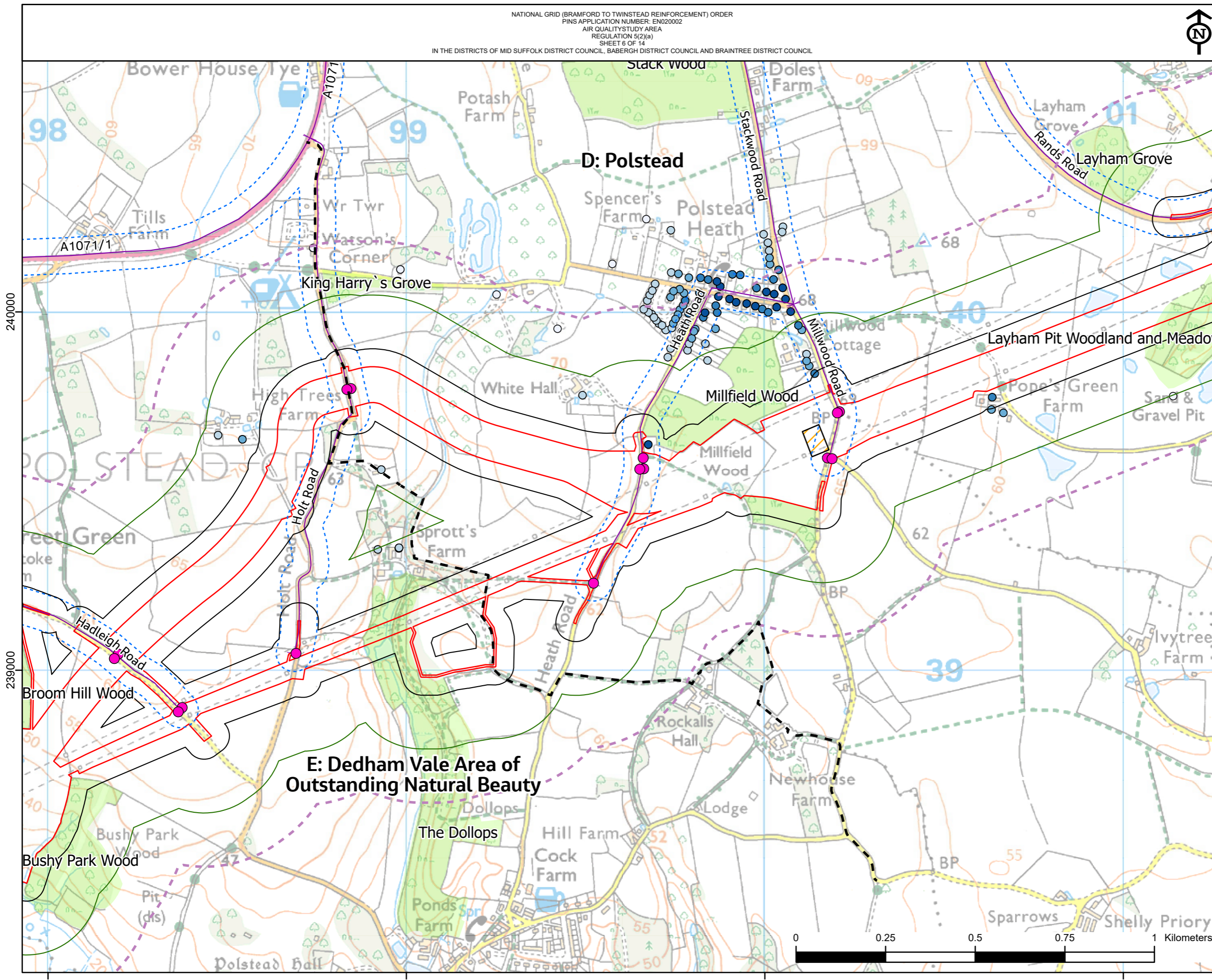


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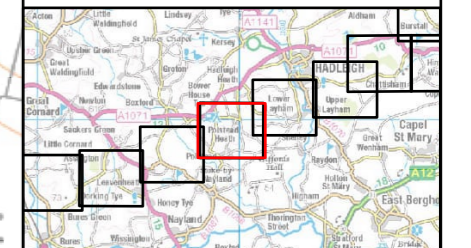
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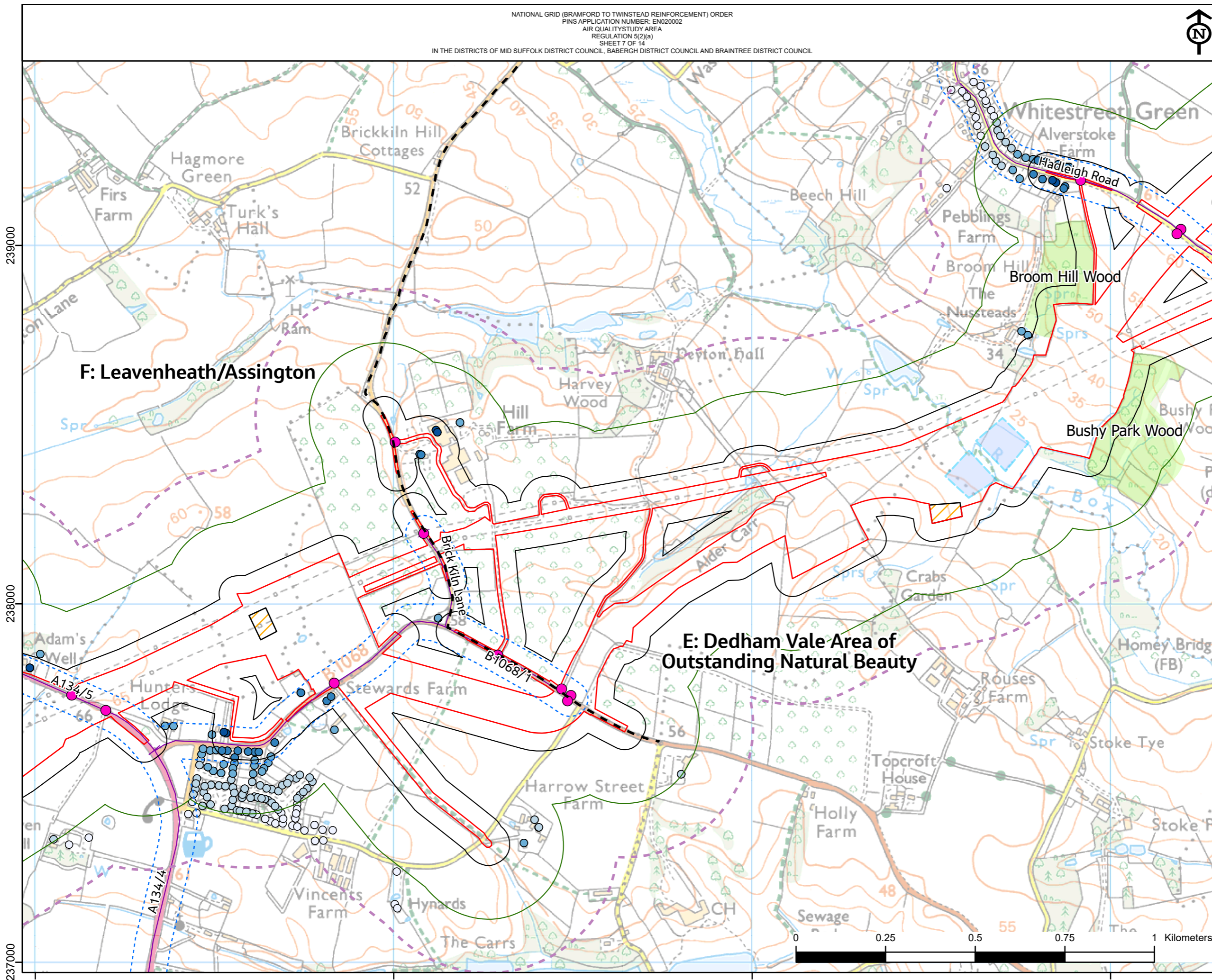
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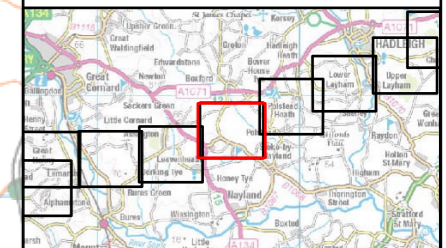
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TITLE: Figure 13.1 Air Quality Study Area

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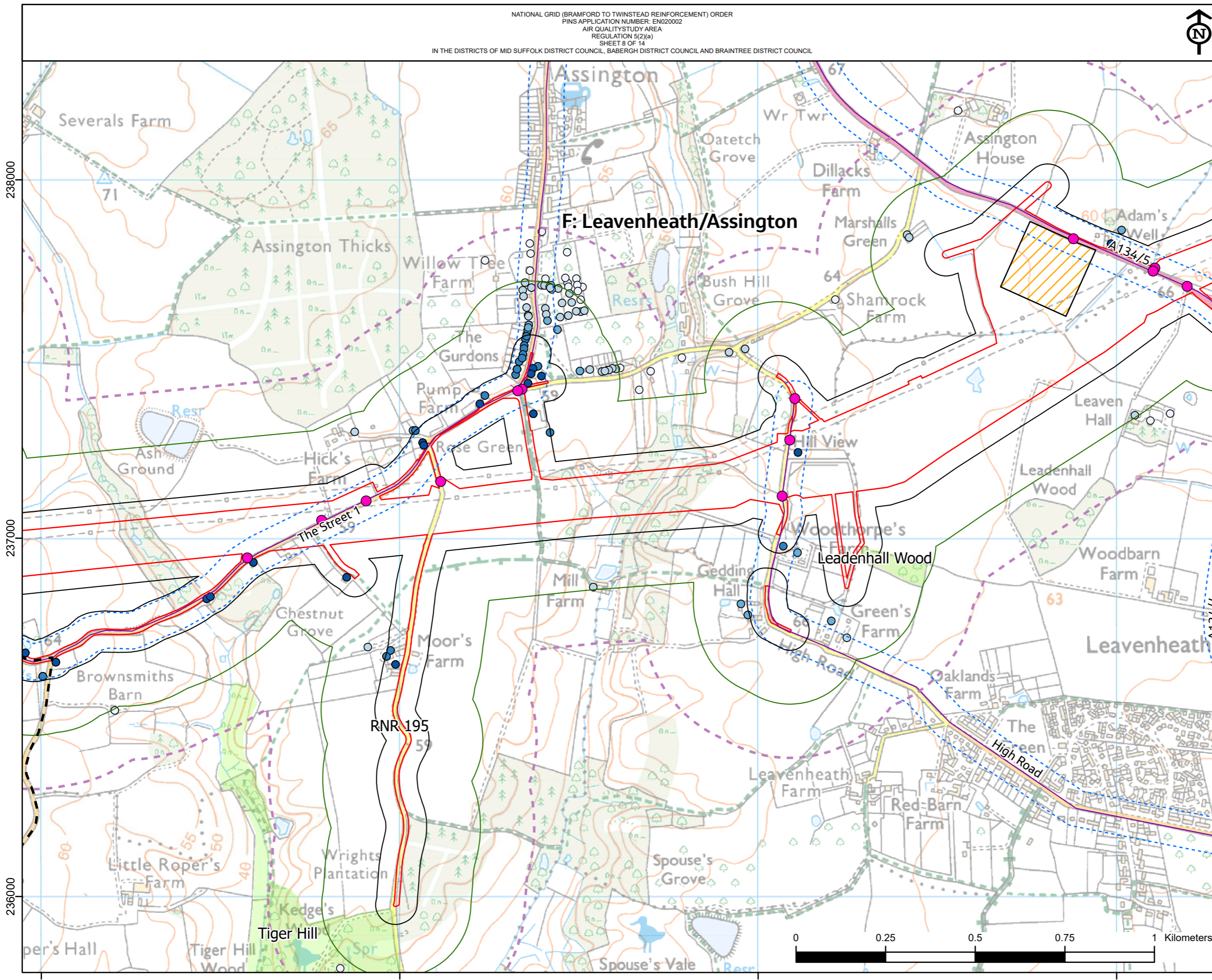
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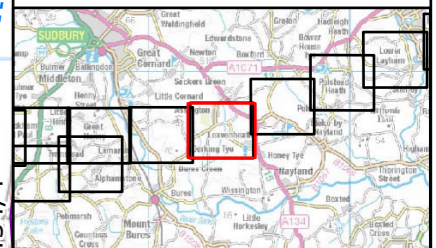
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 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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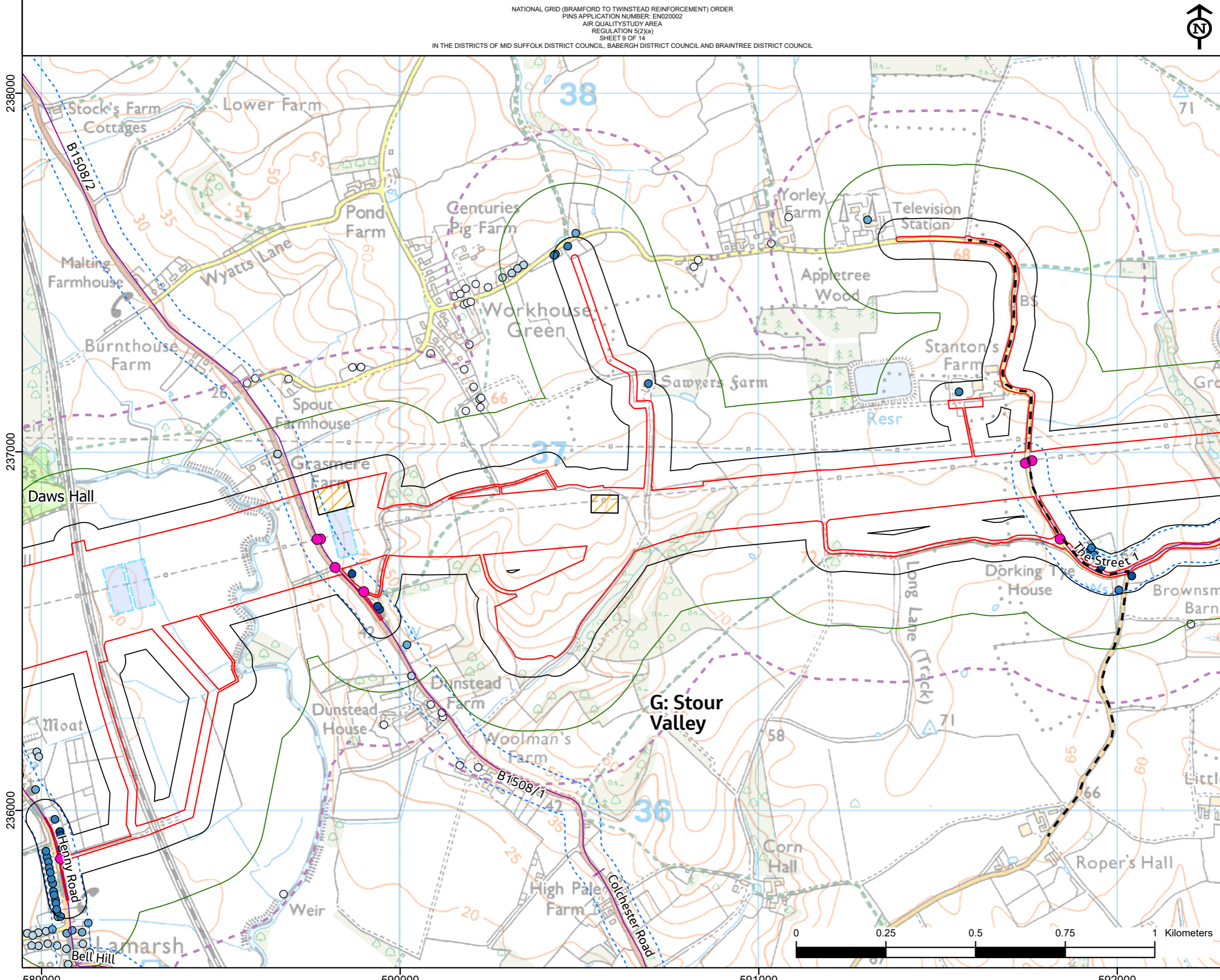
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TITLE: Figure 13.1
Air Quality Study Area

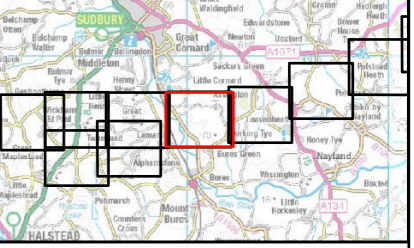
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SCALE: 1:10000	ISSUE: A	



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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
 - Air quality study area and buffers**
 - Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
 - Residential and community receptors**
 - 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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A	03/2023	Rev A for DCO Application	GW	LS	CW

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nationalgrid

TITLE: **Figure 13.1 Air Quality Study Area**

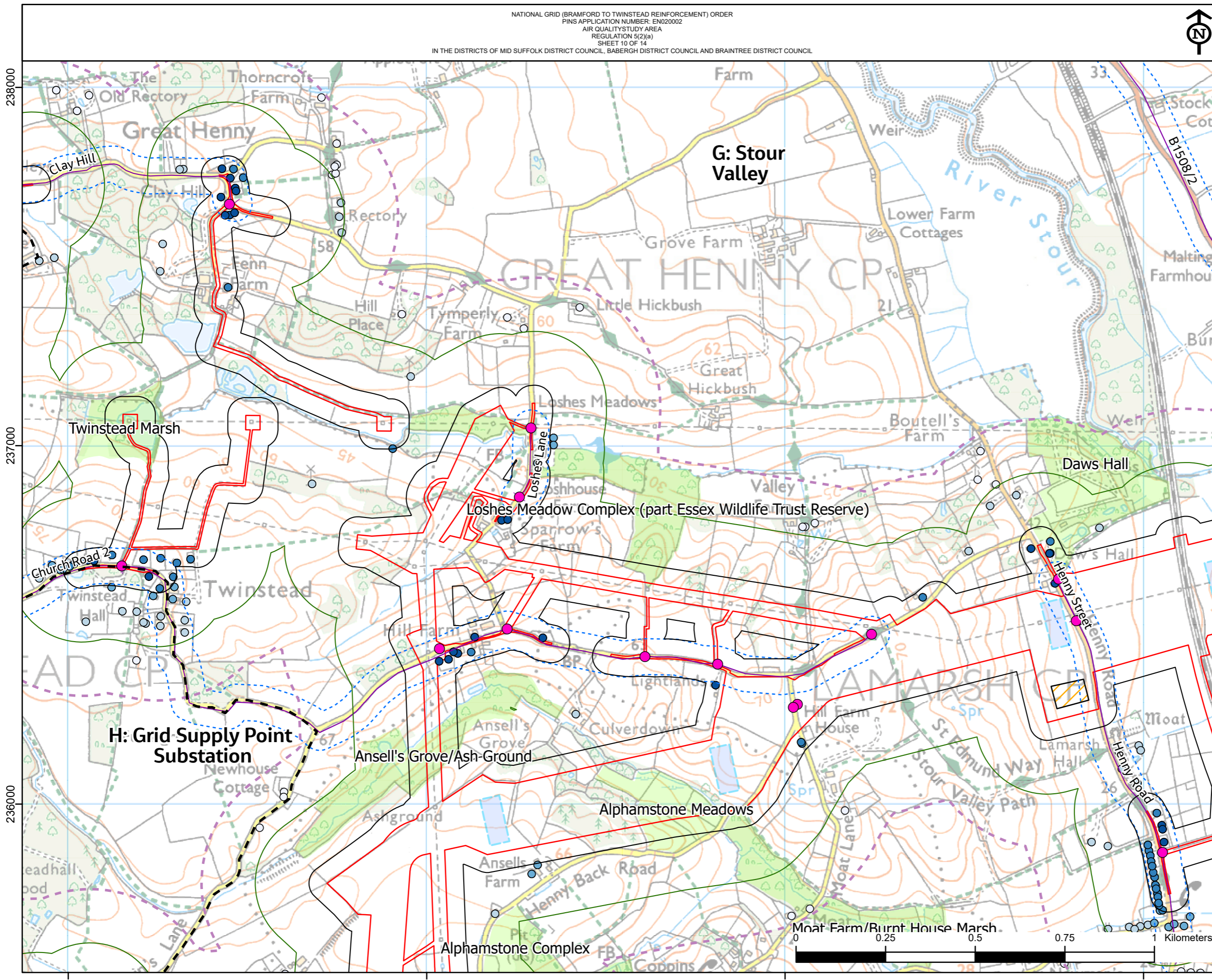
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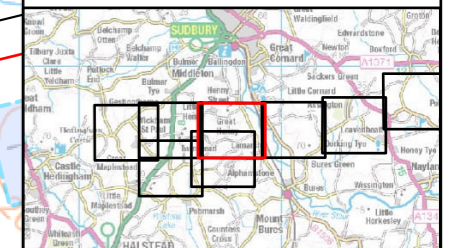
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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
- Air quality study area and buffers**
- Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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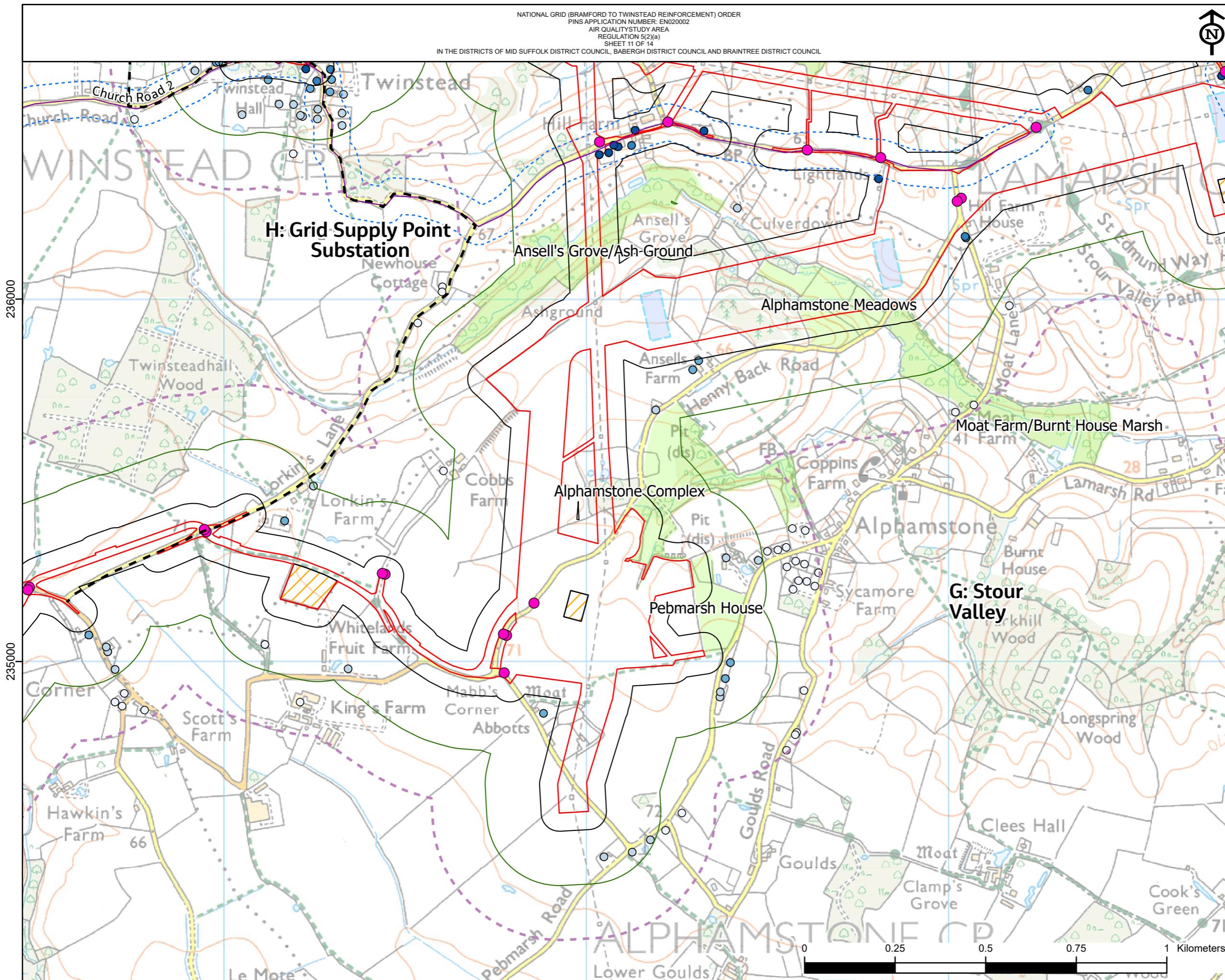
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TITLE: Figure 13.1 Air Quality Study Area

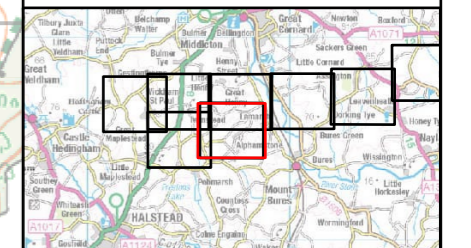
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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
- Air quality study area and buffers**
- Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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TITLE: **Figure 13.1 Air Quality Study Area**

CIRCUIT / SITE : **Bramford – Pelham & Bramford – Braitree – Bulls Lodge** **GIS**

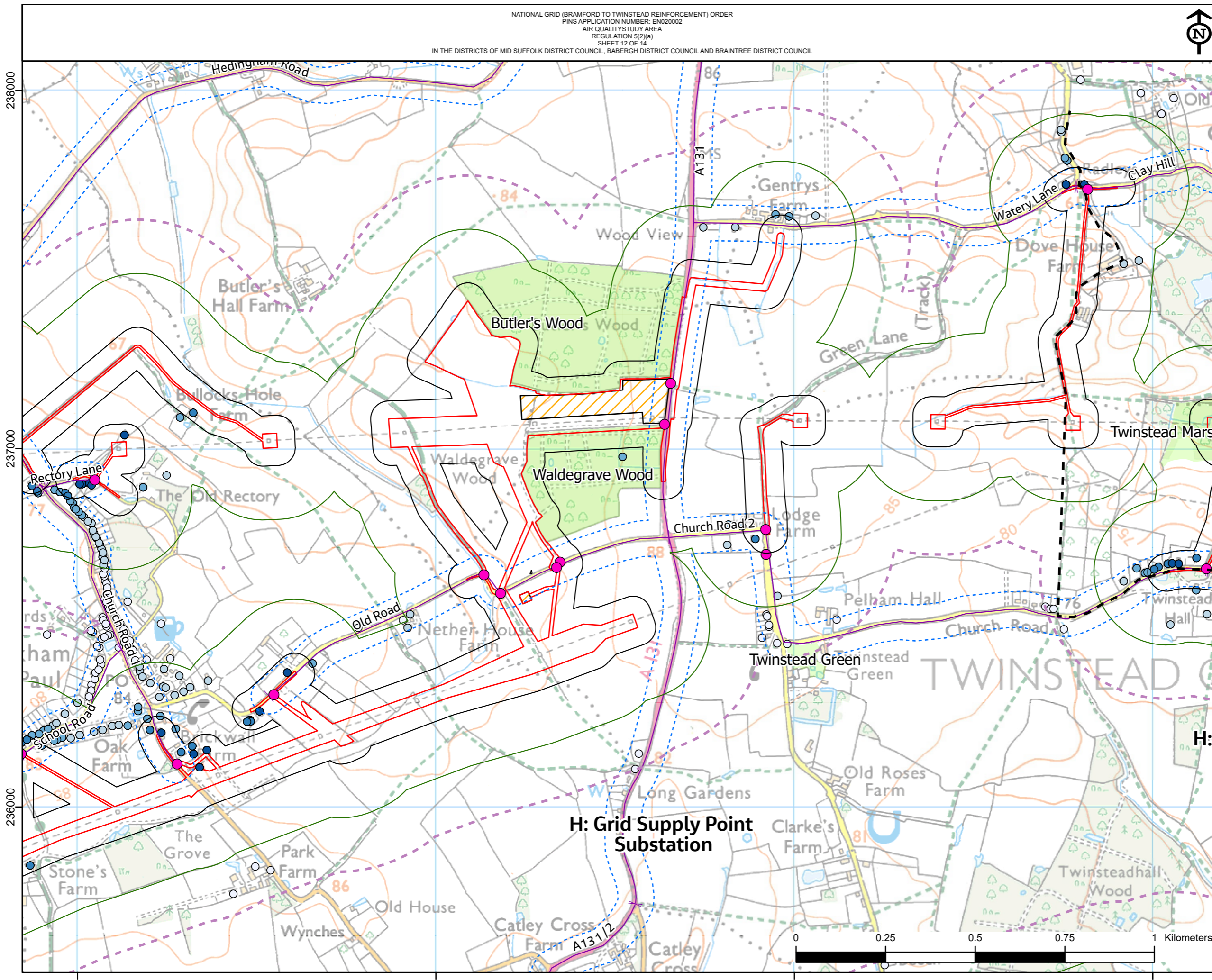
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Legend

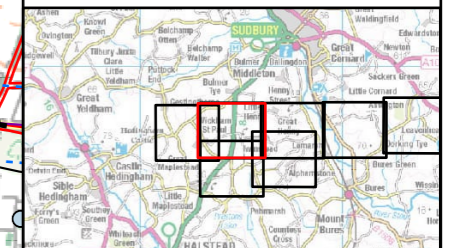
- Section boundaries
- Order Limits
- Construction routes
- Access point
- Temporary construction compound
- Assumed horizontal directional drilling pits
- Ecologically designated sites

Air quality study area and buffers

- Study area (350m)
- 50m
- 200m
- 50m from construction routes

Residential and community receptors

- 0 - 20m
- 20 - 50m
- 50 - 100m
- 100 - 200m
- 200 - 350m



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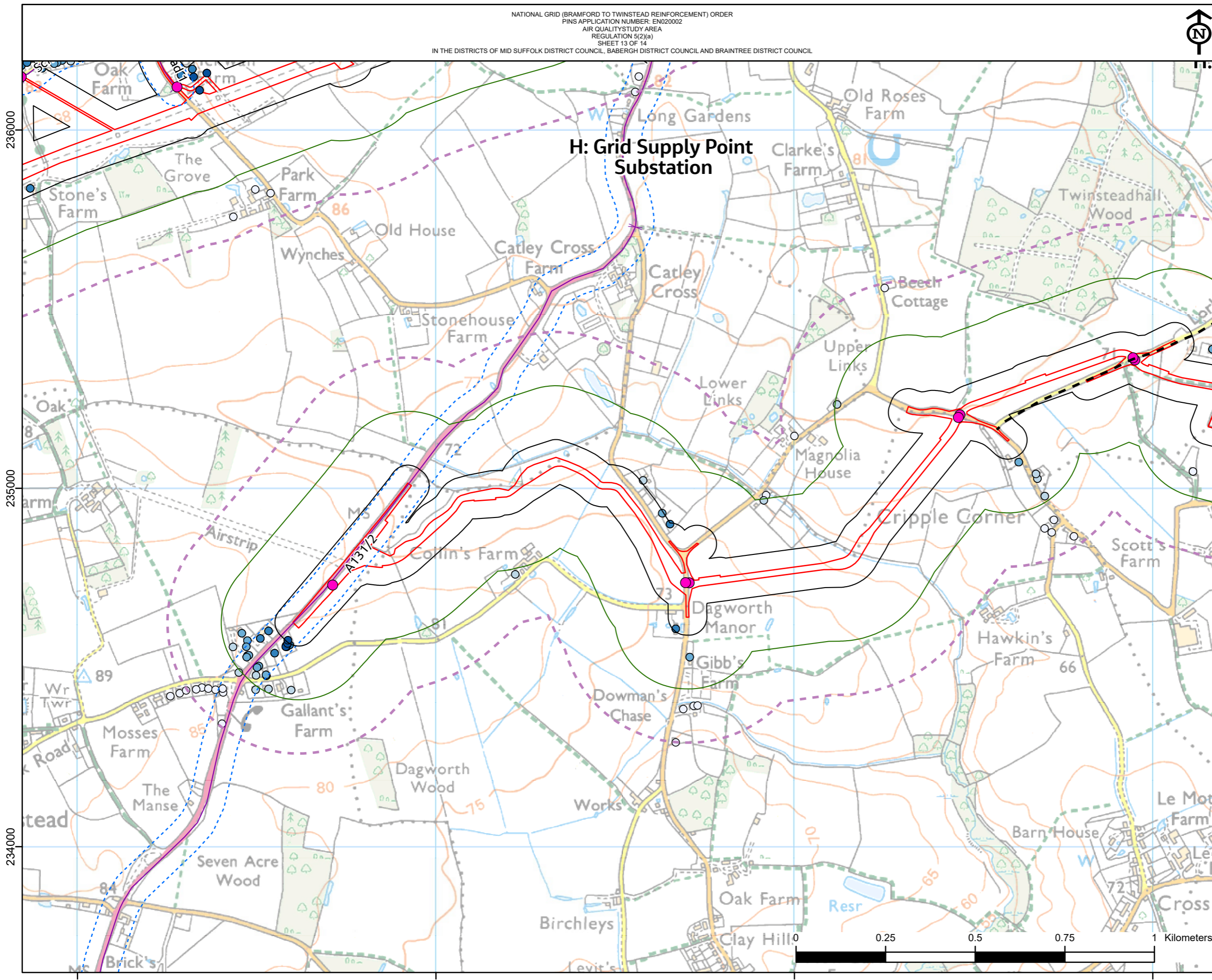
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TITLE: Figure 13.1 Air Quality Study Area

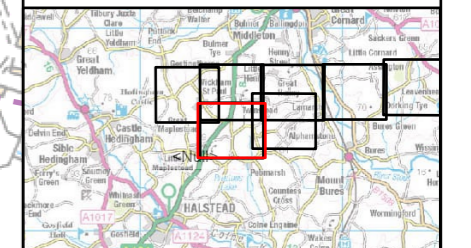
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	ISSUE: A



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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
- Air quality study area and buffers**
- Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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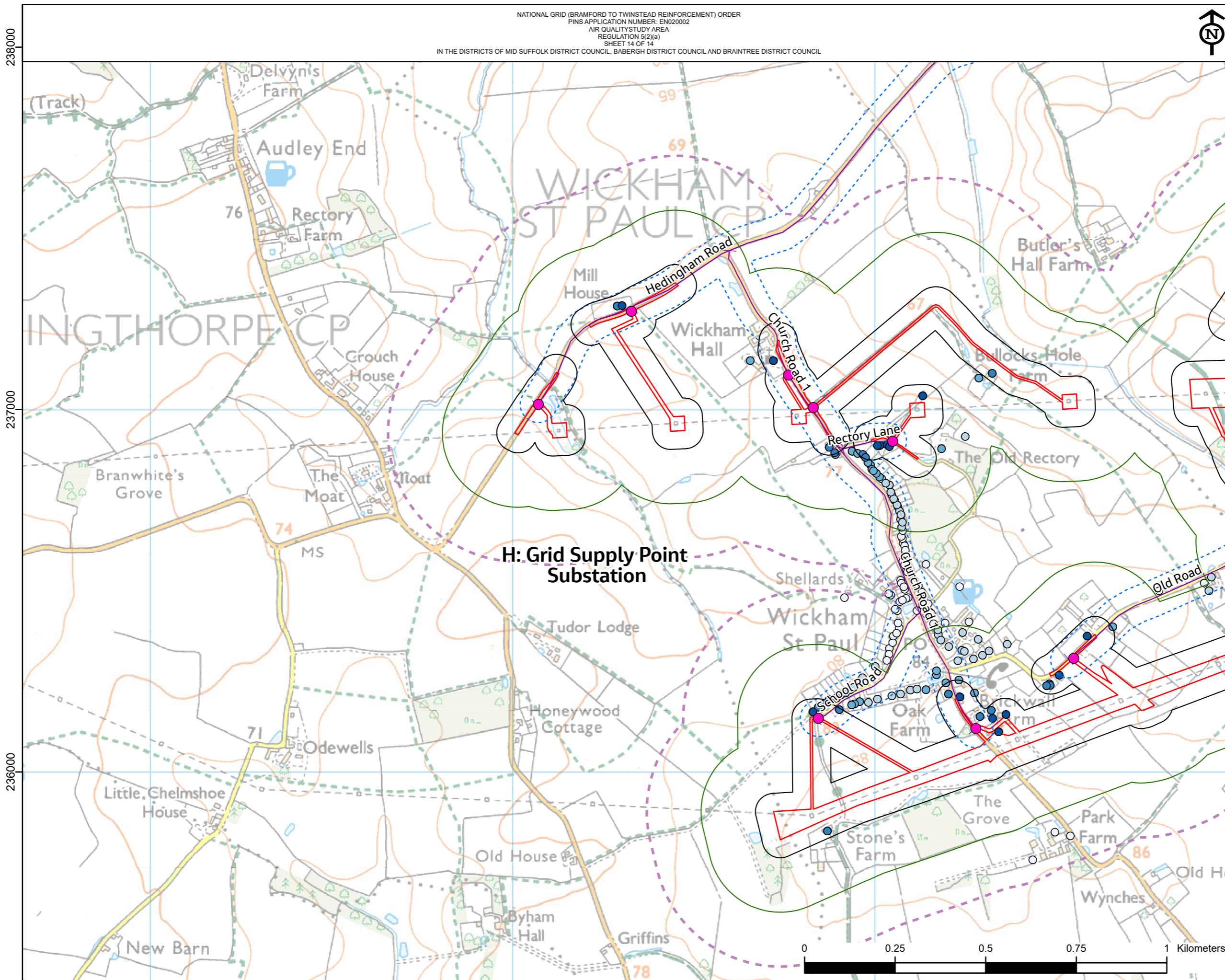
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CIRCUIT / SITE : Bramford – Pelham & Bramford – Braitree – Bulls Lodge		GIS
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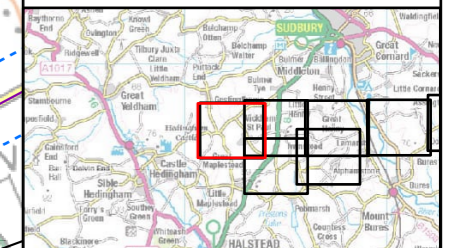




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- Legend**
- Section boundaries
 - Order Limits
 - Construction routes
 - Access point
 - Temporary construction compound
 - Assumed horizontal directional drilling pits
 - Ecologically designated sites
- Air quality study area and buffers**
- Study area (350m)
 - 50m
 - 200m
 - 50m from construction routes
- Residential and community receptors**
- 0 - 20m
 - 20 - 50m
 - 50 - 100m
 - 100 - 200m
 - 200 - 350m



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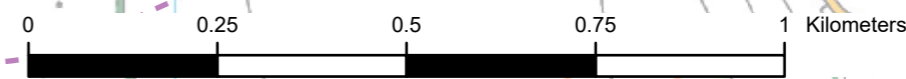


TITLE: Figure 13.1 Air Quality Study Area

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

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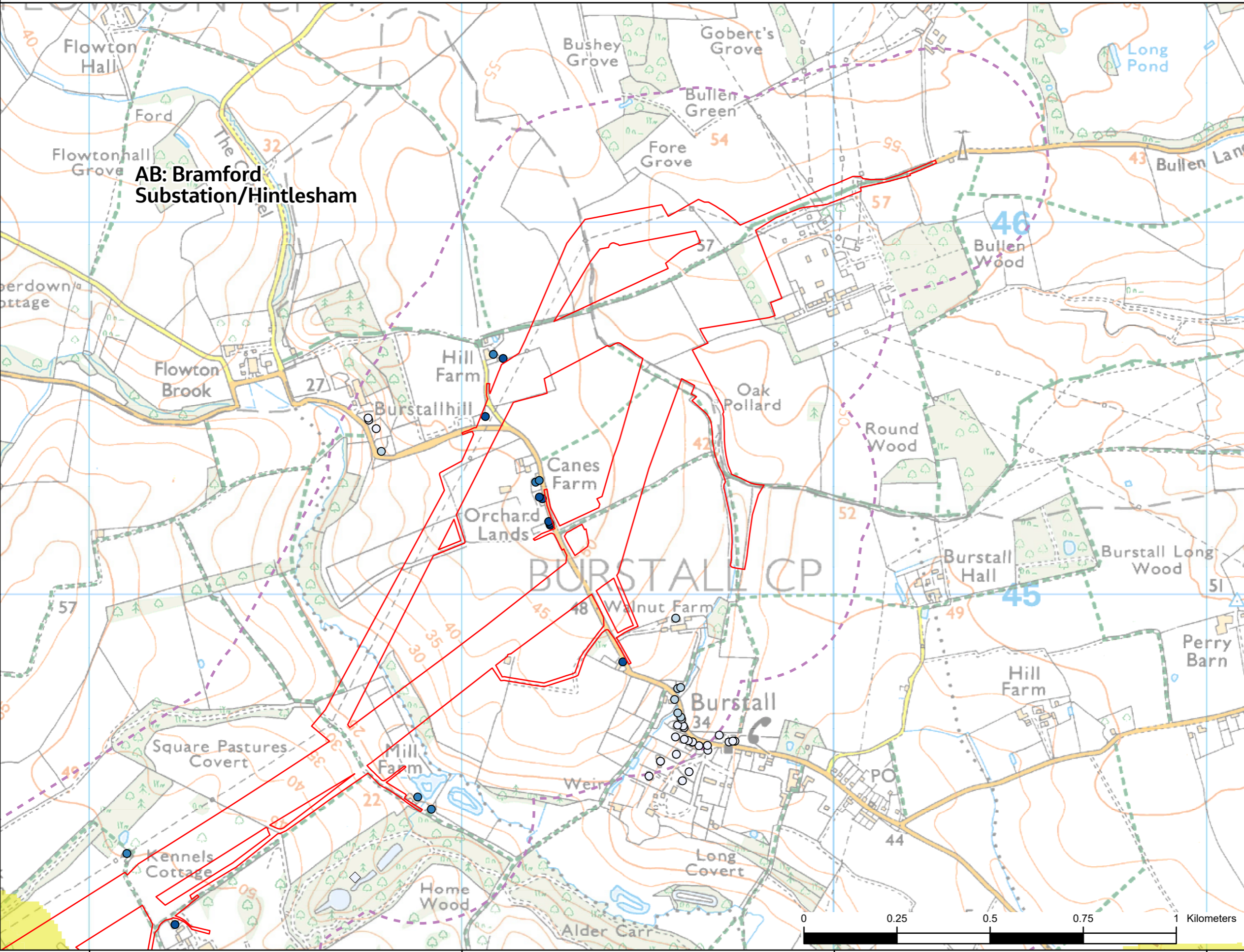
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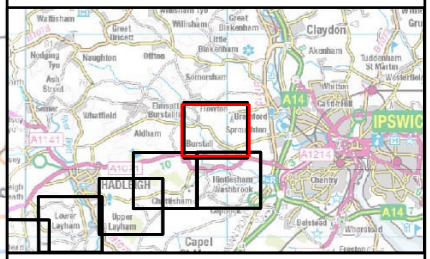
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246000

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- Legend**
- Section boundaries
 - Order Limits
 - Noise study area (300m)
 - Noise important area (NIA)
 - 11345 NIA reference number
 - Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)
- Residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
- ◆ 0-20m
 - ◆ 20-50m
 - ◆ 50-100m
 - ◆ 100-200m
 - ◆ 200-350m



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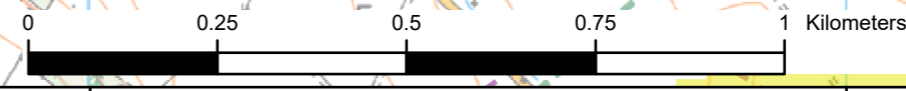


TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

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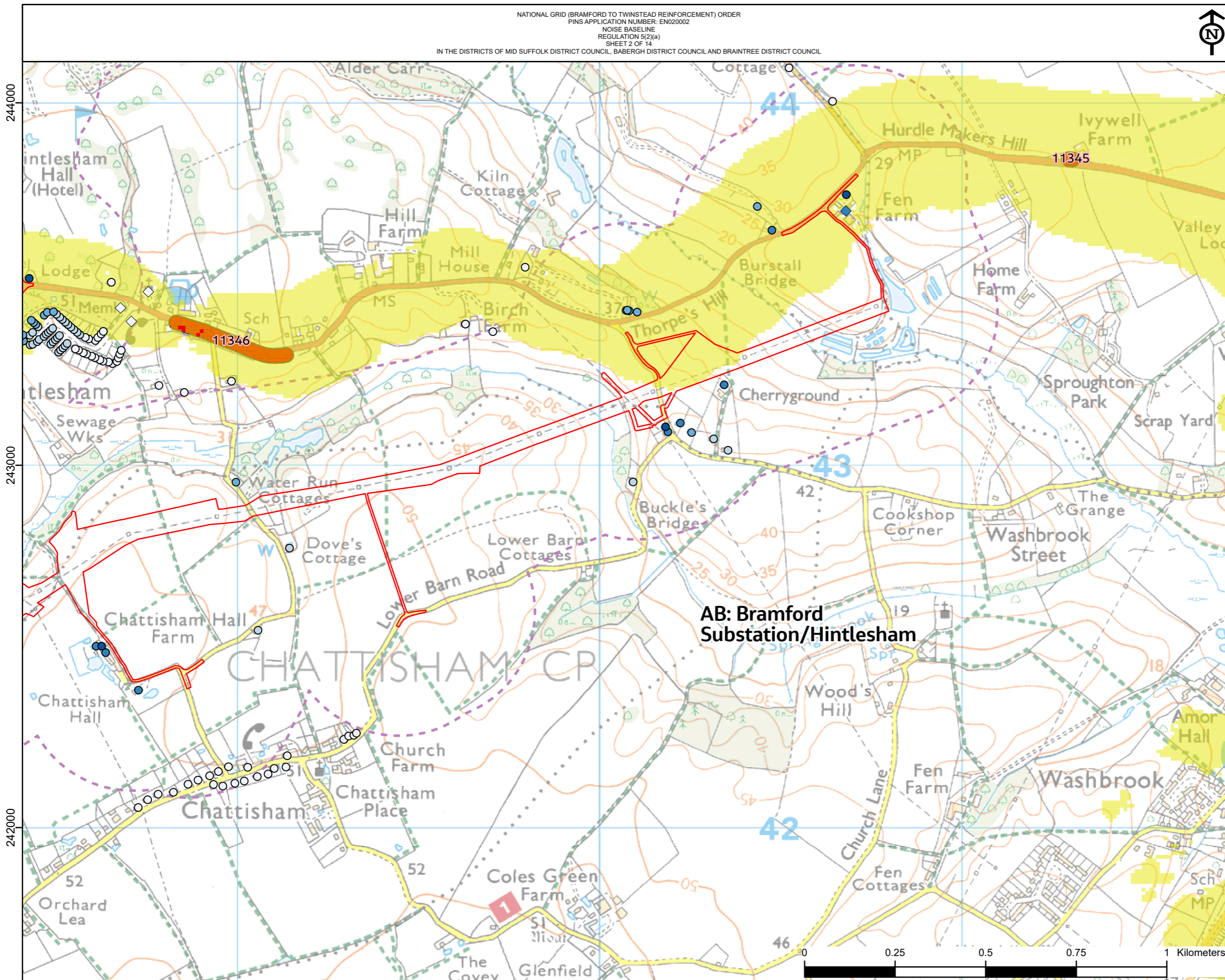
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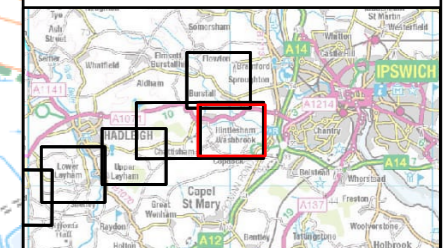


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Legend

- Section boundaries
 - Order Limits
 - Noise study area (300m)
 - Noise important area (NIA)
 - 11345 NIA reference number
 - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
- ◆ 0-20m
 - ◆ 20-50m
 - ◆ 50-100m
 - ◆ 100-200m
 - ◇ 200-350m



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TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0

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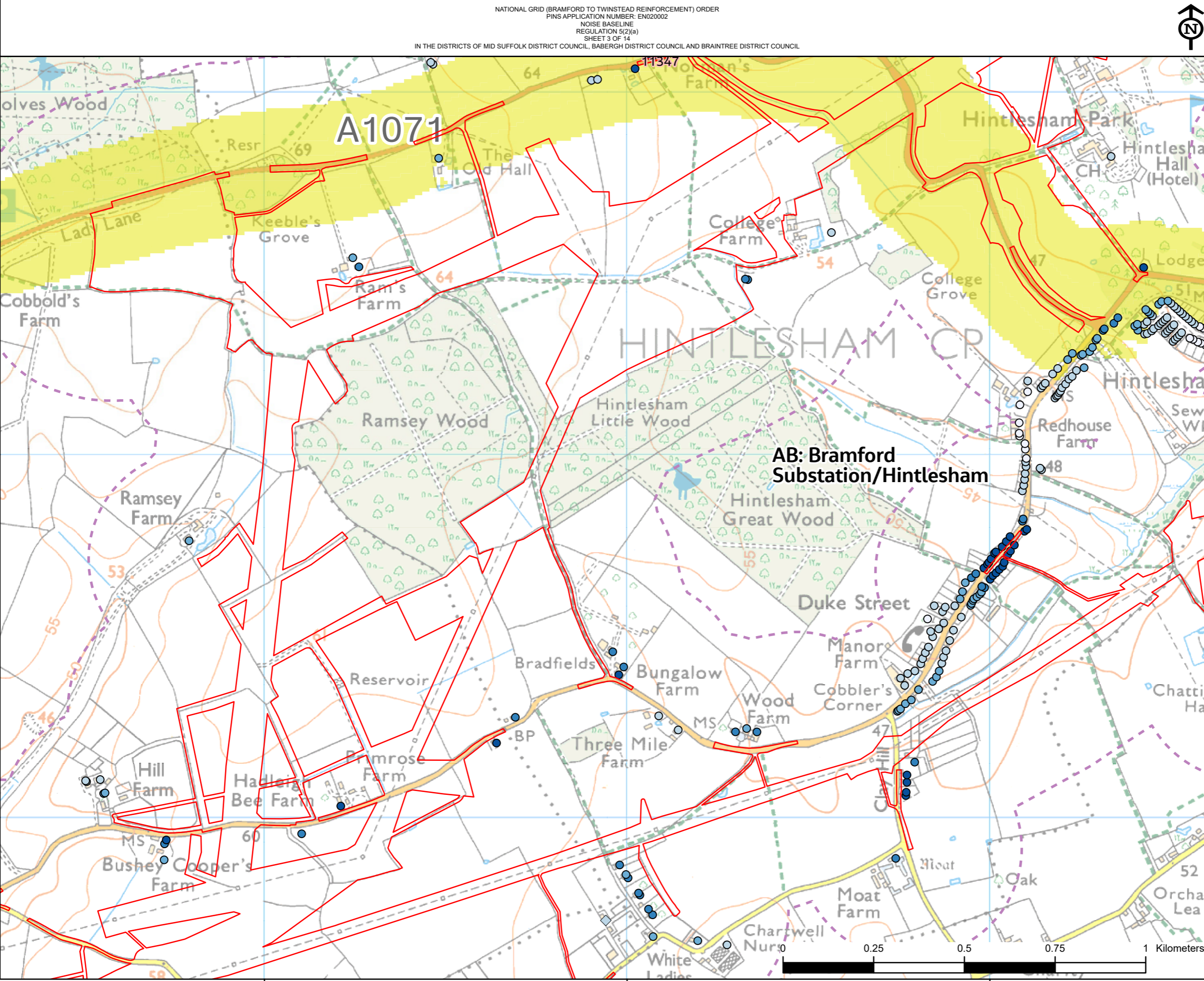


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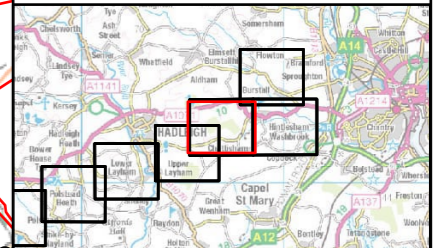
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- Section boundaries
 - Order Limits
 - Noise study area (300m)
 - Noise important area (NIA)
 - 11345 NIA reference number
 - Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)
- Residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m



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nationalgrid

TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

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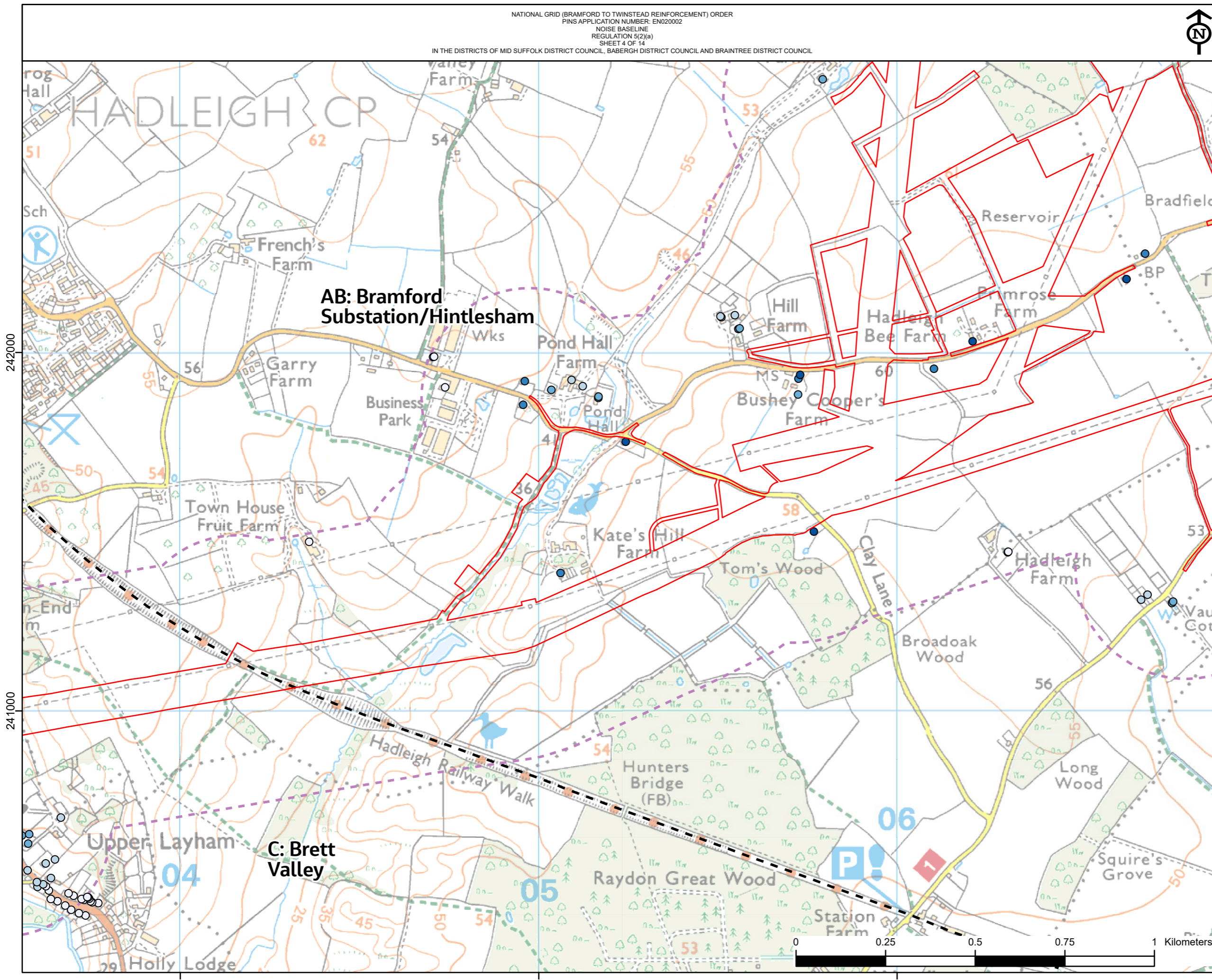
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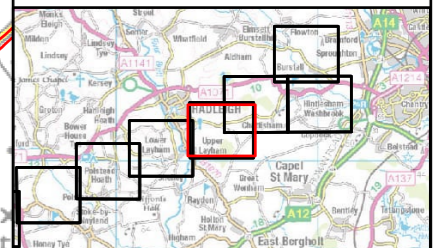


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Legend

- Section boundaries
- Order Limits
- Noise study area (300m)
- Noise important area (NIA)
- 11345 NIA reference number
- Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Residential receptors**
 - 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
 - ◆ 0-20m
 - ◆ 20-50m
 - ◆ 50-100m
 - ◆ 100-200m
 - ◆ 200-350m



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TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

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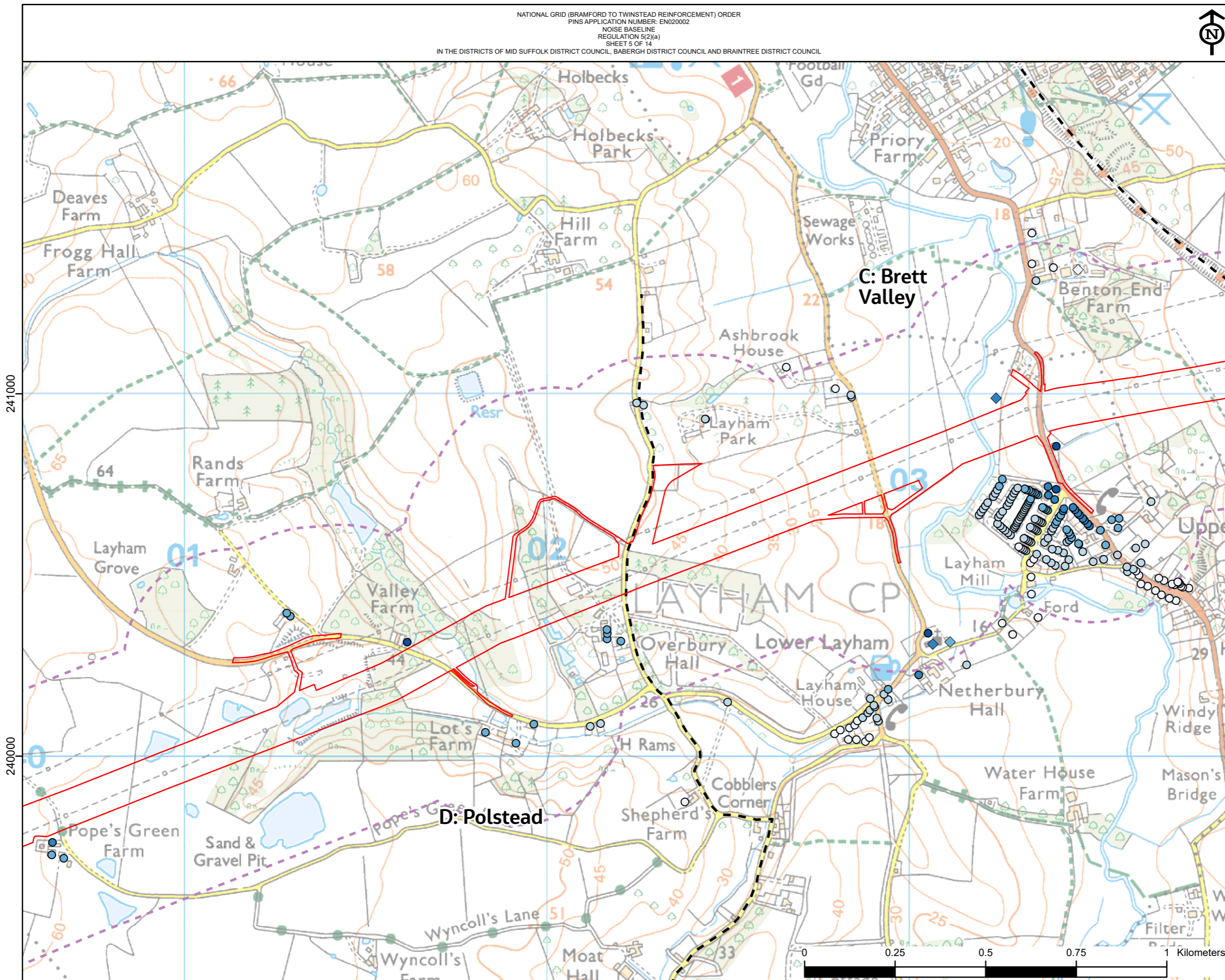


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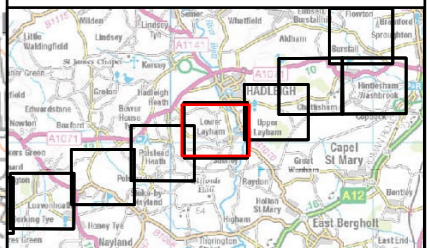


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- Legend**
- - - Section boundaries
 - Order Limits
 - Noise study area (300m)
 - Noise important area (NIA)
 - 11345 NIA reference number
 - Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)

- Residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m



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TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

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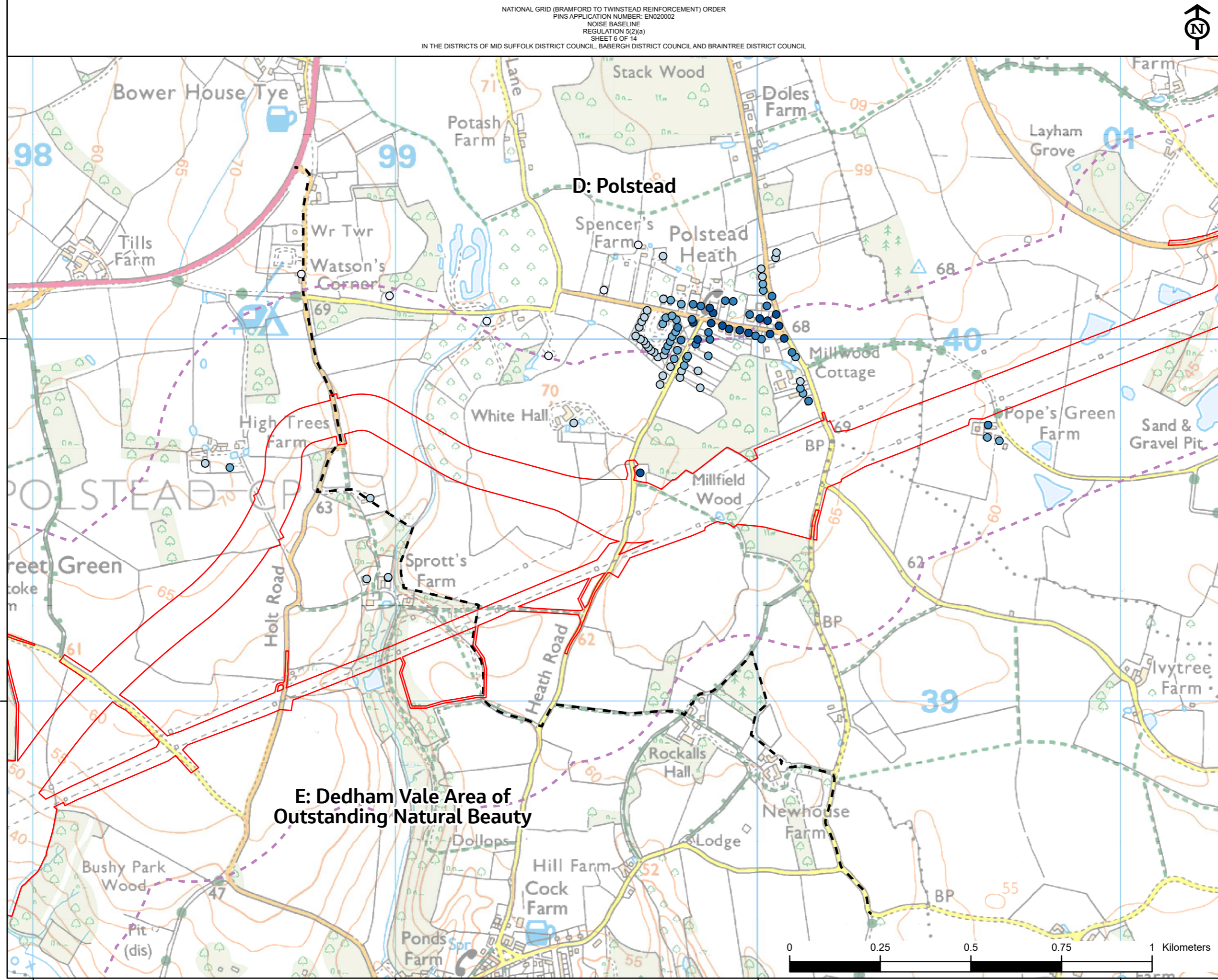
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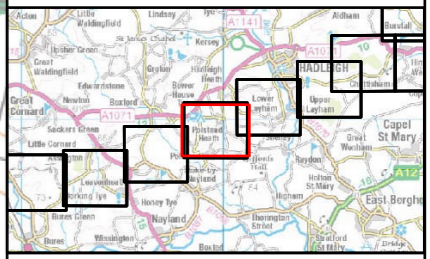
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- Order Limits
- Noise study area (300m)
- Noise important area (NIA)
- 11345 NIA reference number
- Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)

Residential receptors

- 0-20m
- 20-50m
- 50-100m
- 100-200m
- 200-350m

Non-residential receptors

- ◆ 0-20m
- ◆ 20-50m
- ◆ 50-100m
- ◆ 100-200m
- ◆ 200-350m



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TITLE: **Figure 14.1 Noise Baseline**

CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braitree – Bulls Lodge**

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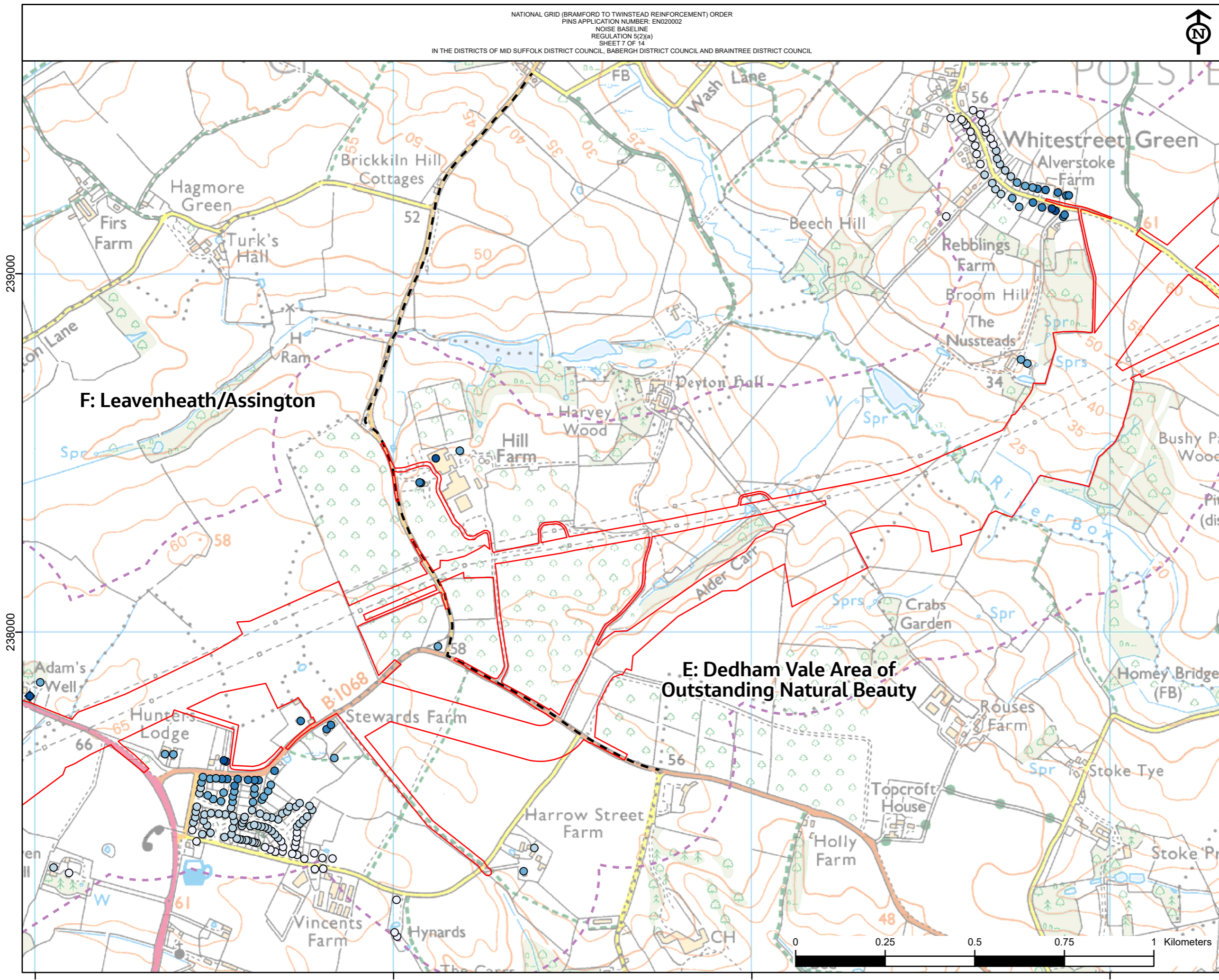
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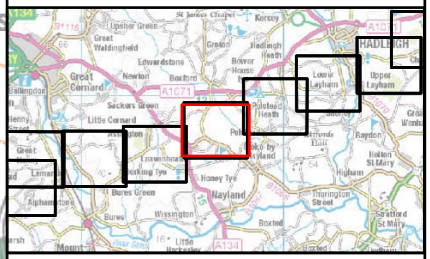
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- Order Limits
- Noise study area (300m)
- Noise important area (NIA)
- 11345 NIA reference number
- Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)

Residential receptors

- 0-20m
- 20-50m
- 50-100m
- 100-200m
- 200-350m

Non-residential receptors

- ◆ 0-20m
- ◆ 20-50m
- ◆ 50-100m
- ◆ 100-200m
- ◆ 200-350m



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TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0

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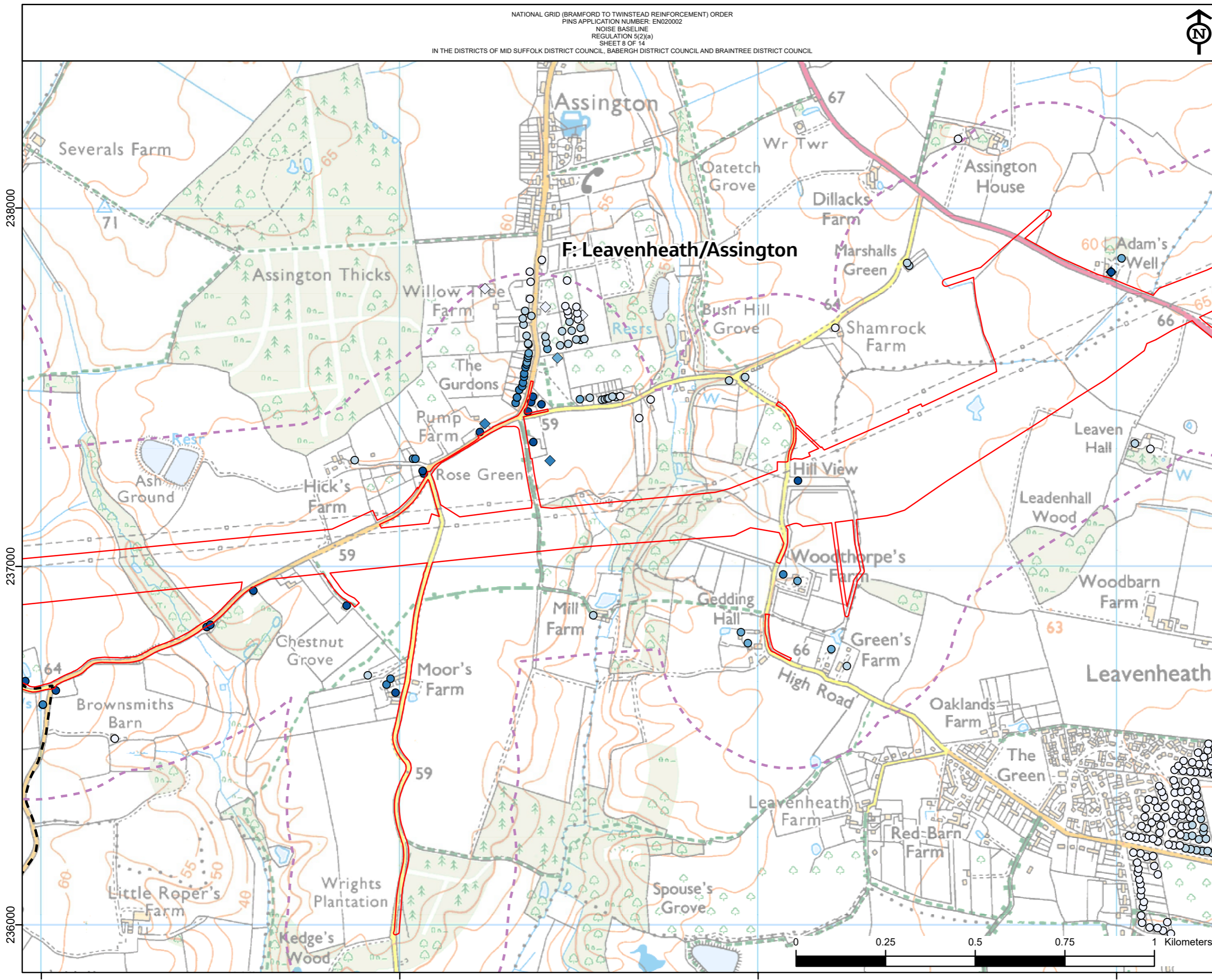
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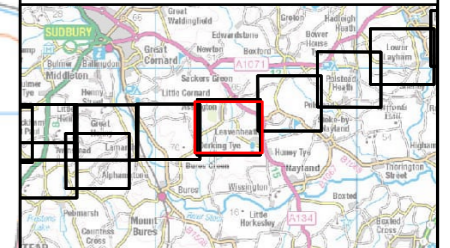
- Section boundaries
- Order Limits
- Noise study area (300m)
- Noise important area (NIA)
- 11345 NIA reference number
- Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)

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- 100-200m
- 200-350m

Non-residential receptors

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- ◆ 20-50m
- ◆ 50-100m
- ◆ 100-200m
- ◇ 200-350m



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nationalgrid

TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge **GIS**

ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0 **A3**

NG DRAWING No. BT-JAC-020631-500-0098 SHEET NO. 8 NO. OF SHEETS 14 ISSUE: **A**



238000

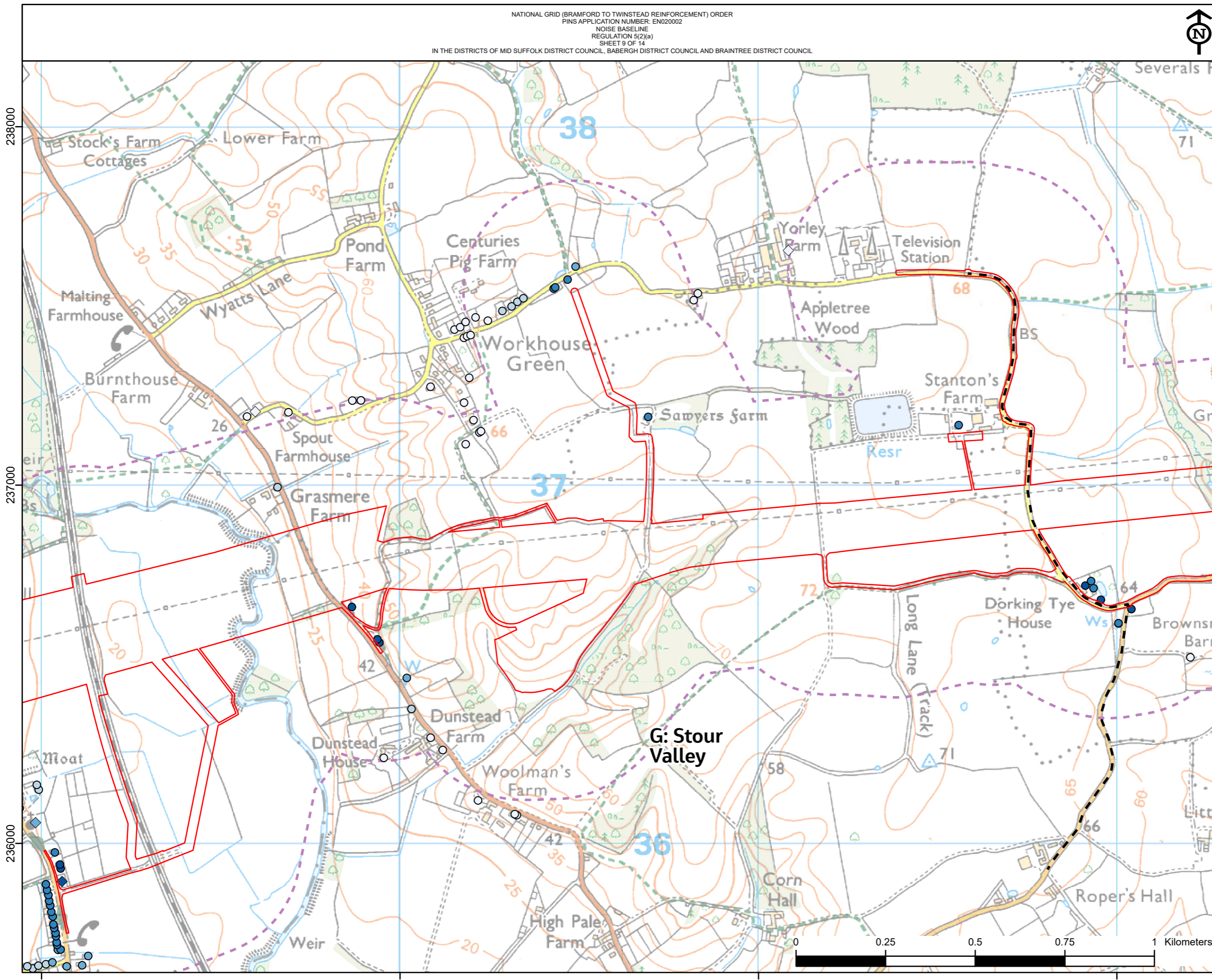
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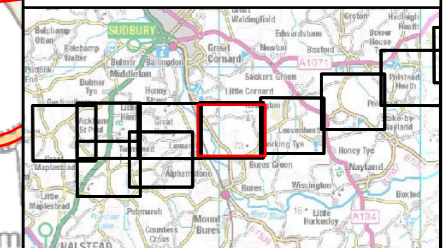
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- Legend**
- Section boundaries
 - Order Limits
 - Noise study area (300m)
 - Noise important area (NIA)
 - 11345 NIA reference number
 - Daytime dBAeq 16 hr greater than 55dB (Defra, 2017)
- Residential receptors**
- 0-20m
 - 20-50m
 - 50-100m
 - 100-200m
 - 200-350m
- Non-residential receptors**
- ◆ 0-20m
 - ◆ 20-50m
 - ◆ 50-100m
 - ◆ 100-200m
 - ◆ 200-350m



NG Investment No. ETX/01142

A	03/2023	Rev A for DCO Application	PM	DG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

nationalgrid

TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE : Bramford – Pelham & Bramford – Braintree – Bulls Lodge		GIS
ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0		A3
NG DRAWING No. BT-JAC-020631-500-0098	SHEET NO. 9	NO. OF SHEETS 14
SCALE: 1:10000	ISSUE: A	

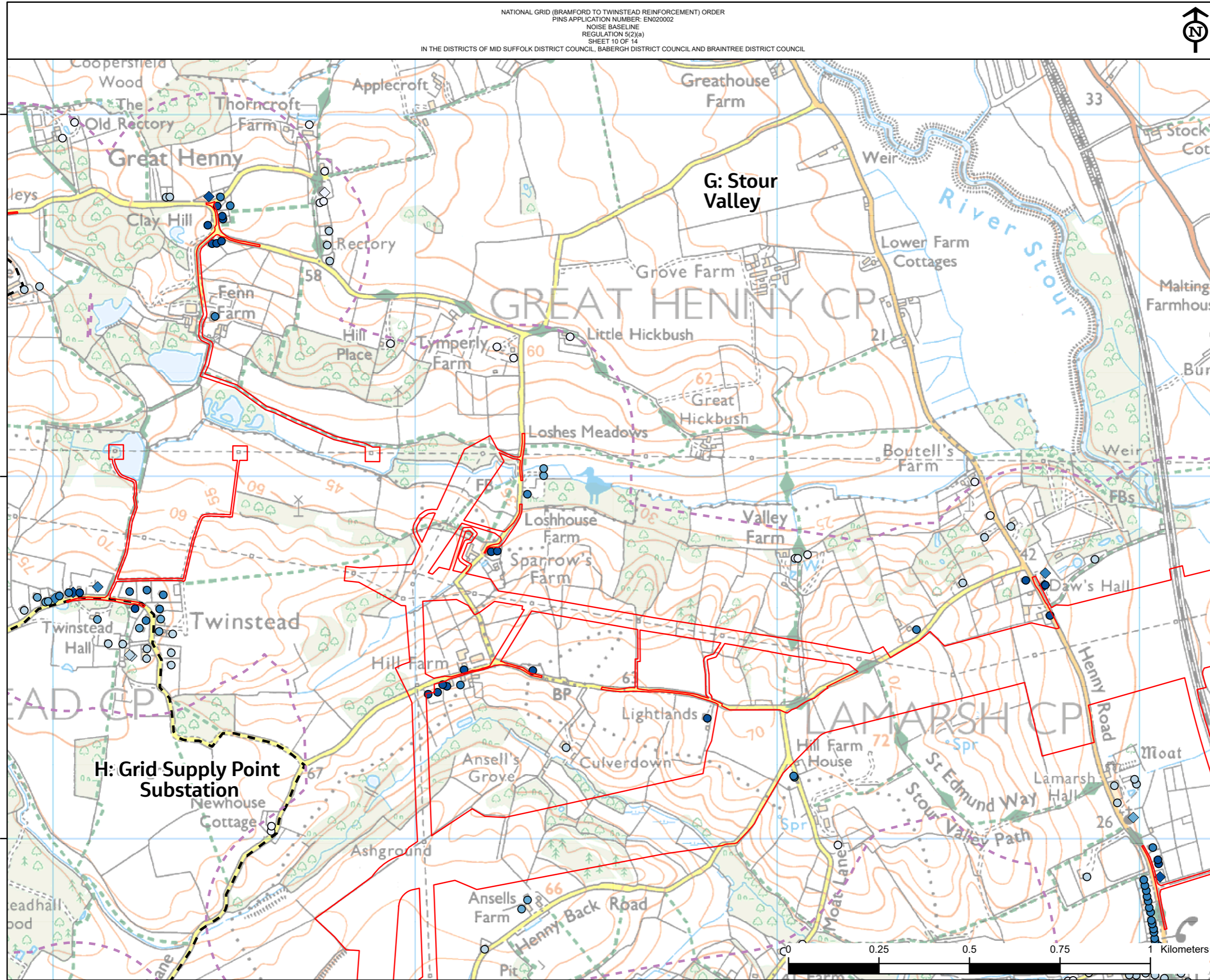


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Legend

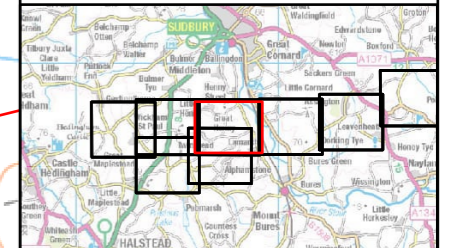
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A	03/2023	Rev A for DCO Application	PM	DG	CW
ISSUE DATE	REMARKS	DRWN	CHKD	APPD	

PROJECT: Bramford to Twinstead Reinforcement

nationalgrid

TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

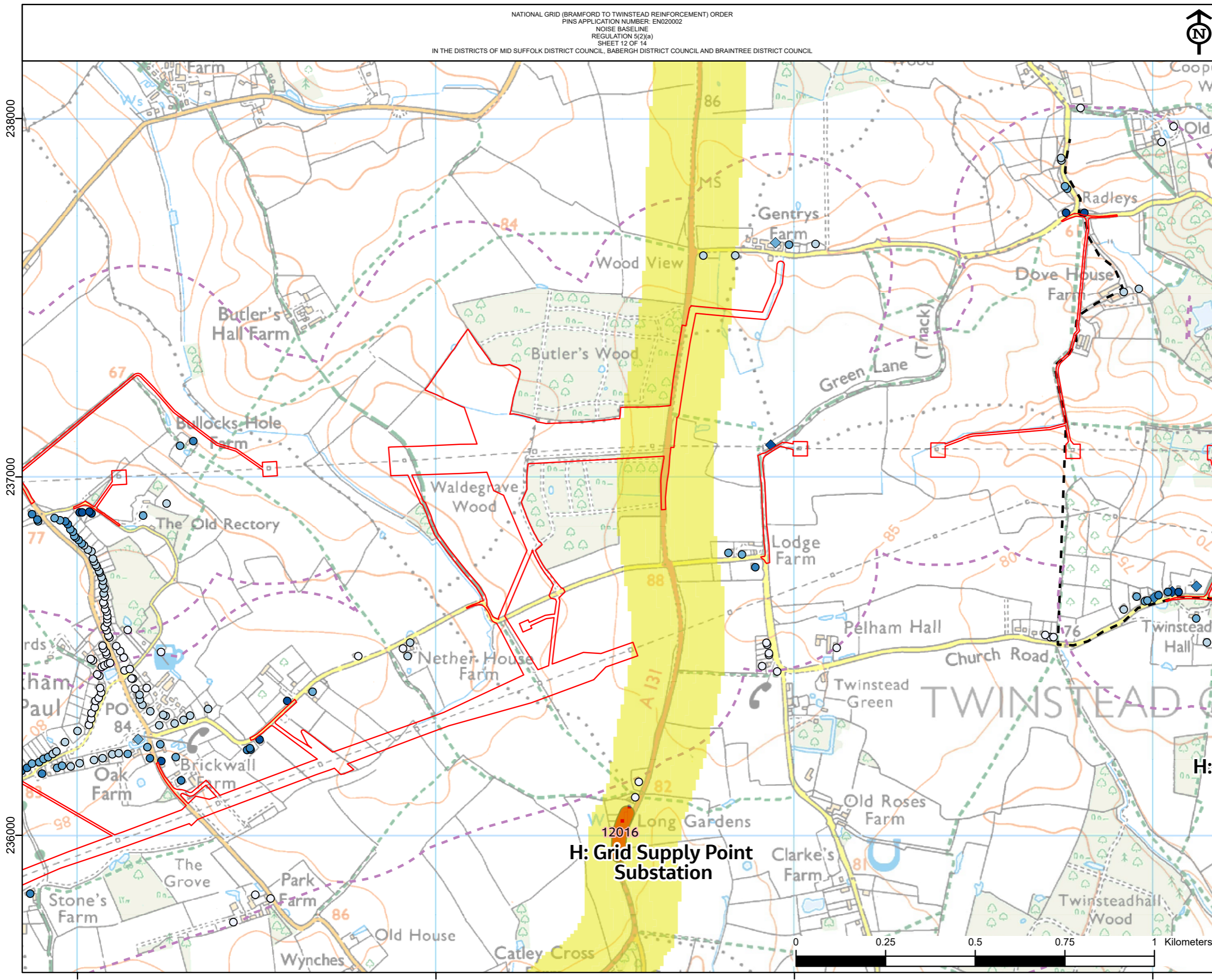
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NG DRAWING No. BT-JAC-020631-500-0098	SHEET NO. 10	NO. OF SHEETS 14	ISSUE: A
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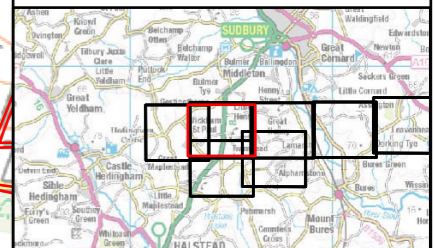
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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	03/2023	Rev A for DCO Application	PM	DG	CW

PROJECT: Bramford to Twinstead Reinforcement



TITLE: Figure 14.1 Noise Baseline

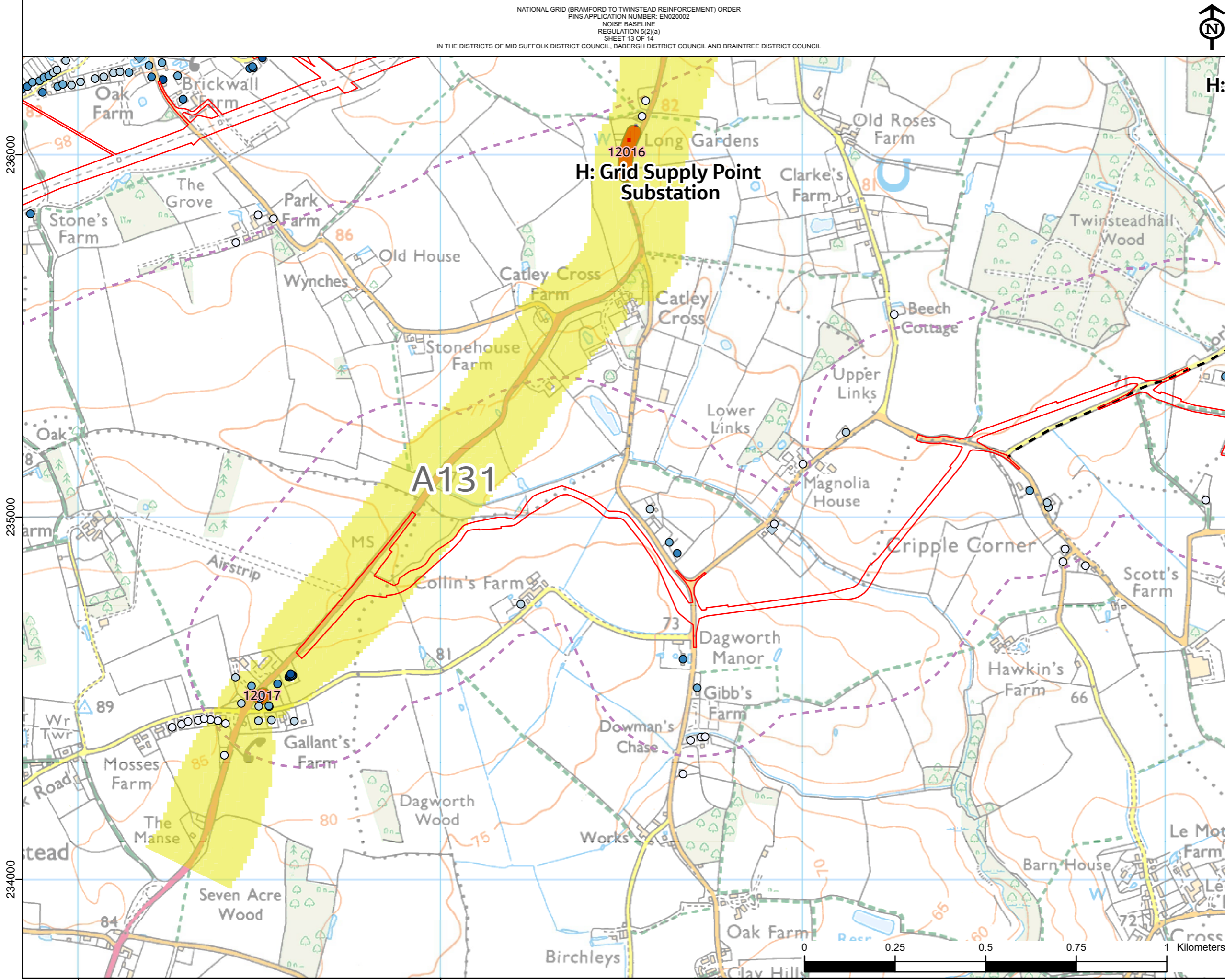
CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge GIS

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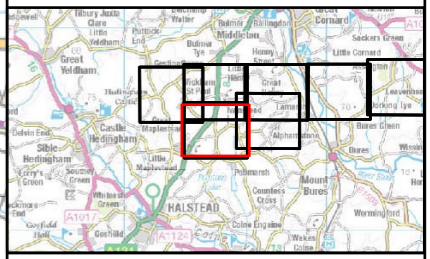
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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

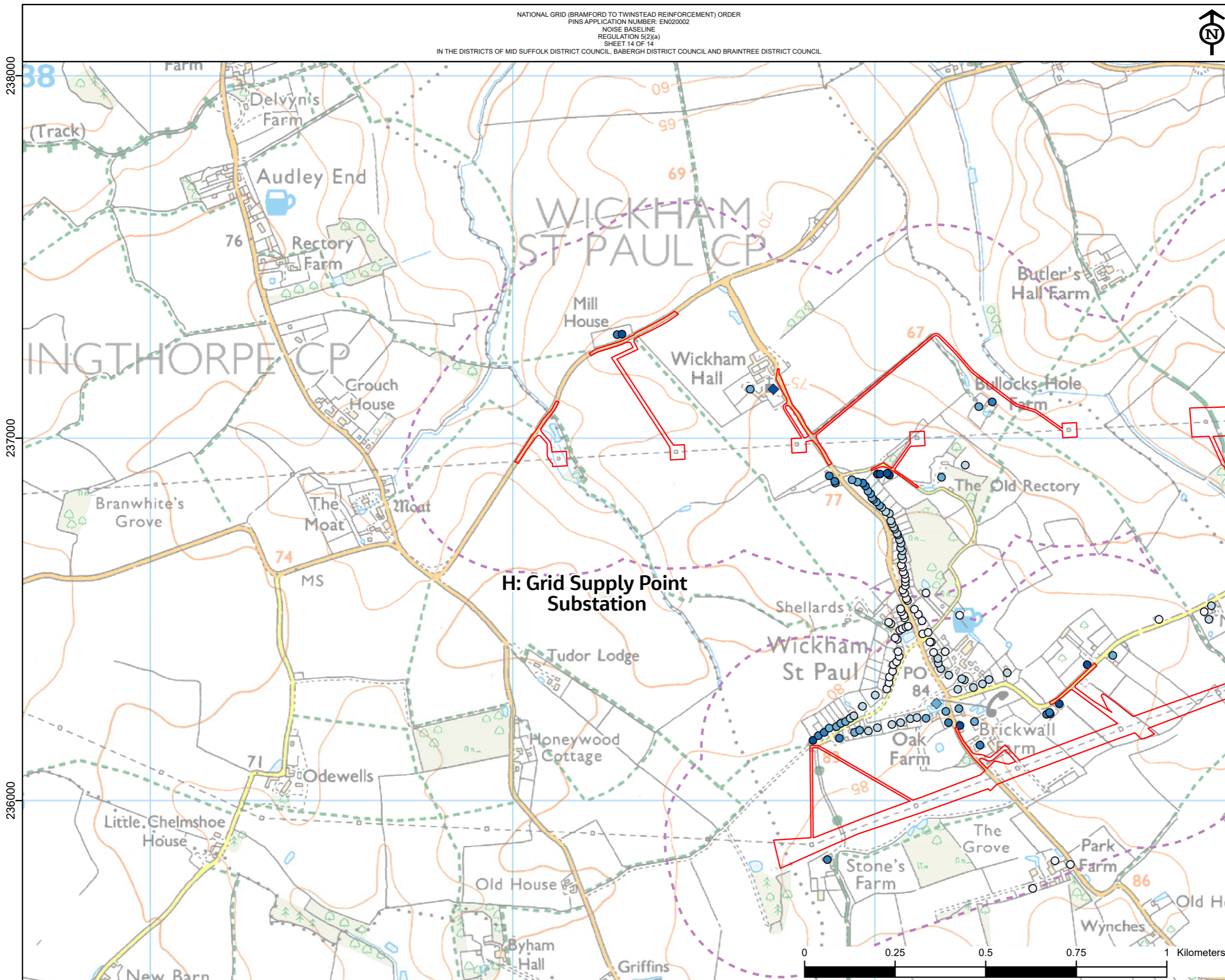


TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE : Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0	A3
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Legend

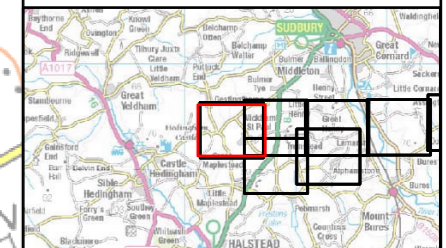
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TITLE: Figure 14.1 Noise Baseline

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA_BTT_Figure_14_1_Rev0

NG DRAWING No. BT-JAC-020631-500-0098	SHEET NO. 14	NO. OF SHEETS 14	ISSUE: A
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SCALE: 1:10000

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583000

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