

BT-NG-020621-545-0176

# Bramford to Twinstead Reinforcement

Volume 6: Environmental Information

Document 6.4.4: Environmental Statement  
Figures (Part 4)

Final Issue A  
April 2023

Planning Inspectorate Reference: EN020002

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



nationalgrid



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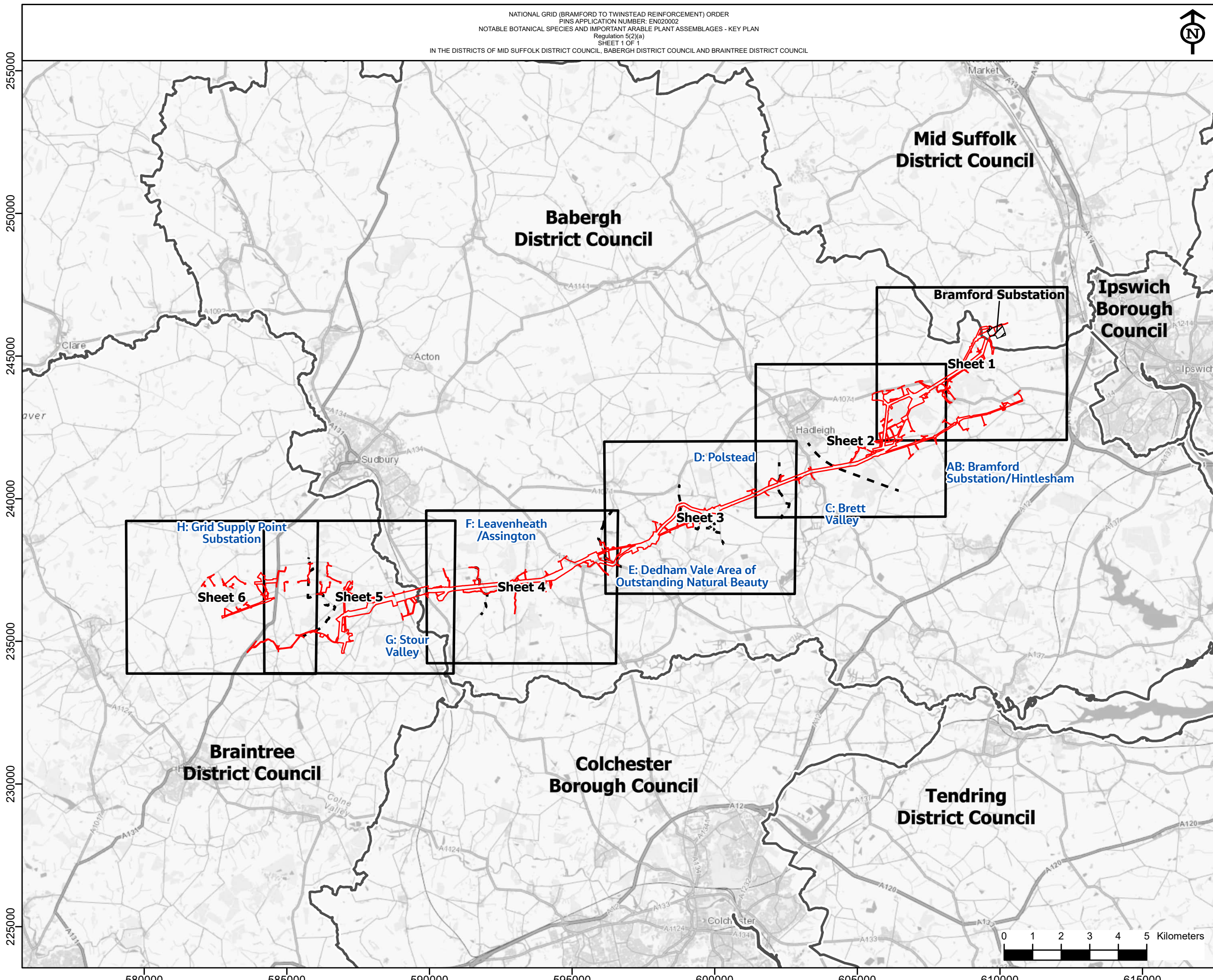
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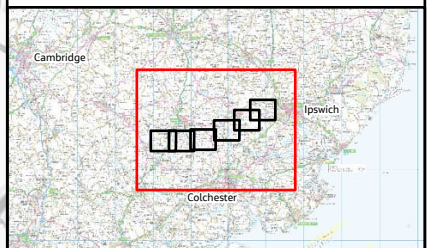
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- Section boundaries
- Order limits
- Local authority districts
- Existing Bramford Substation



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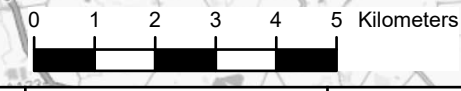


TITLE: Figure 7.1.6  
 Notable Botanical Species and Important Arable Plant Assemblages - Key Plan

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

ORIGINATOR DRAWING NO. AAA\_BTT\_HabitatsFR\_Fig7\_1.6\_Rev01\_KeyPlan

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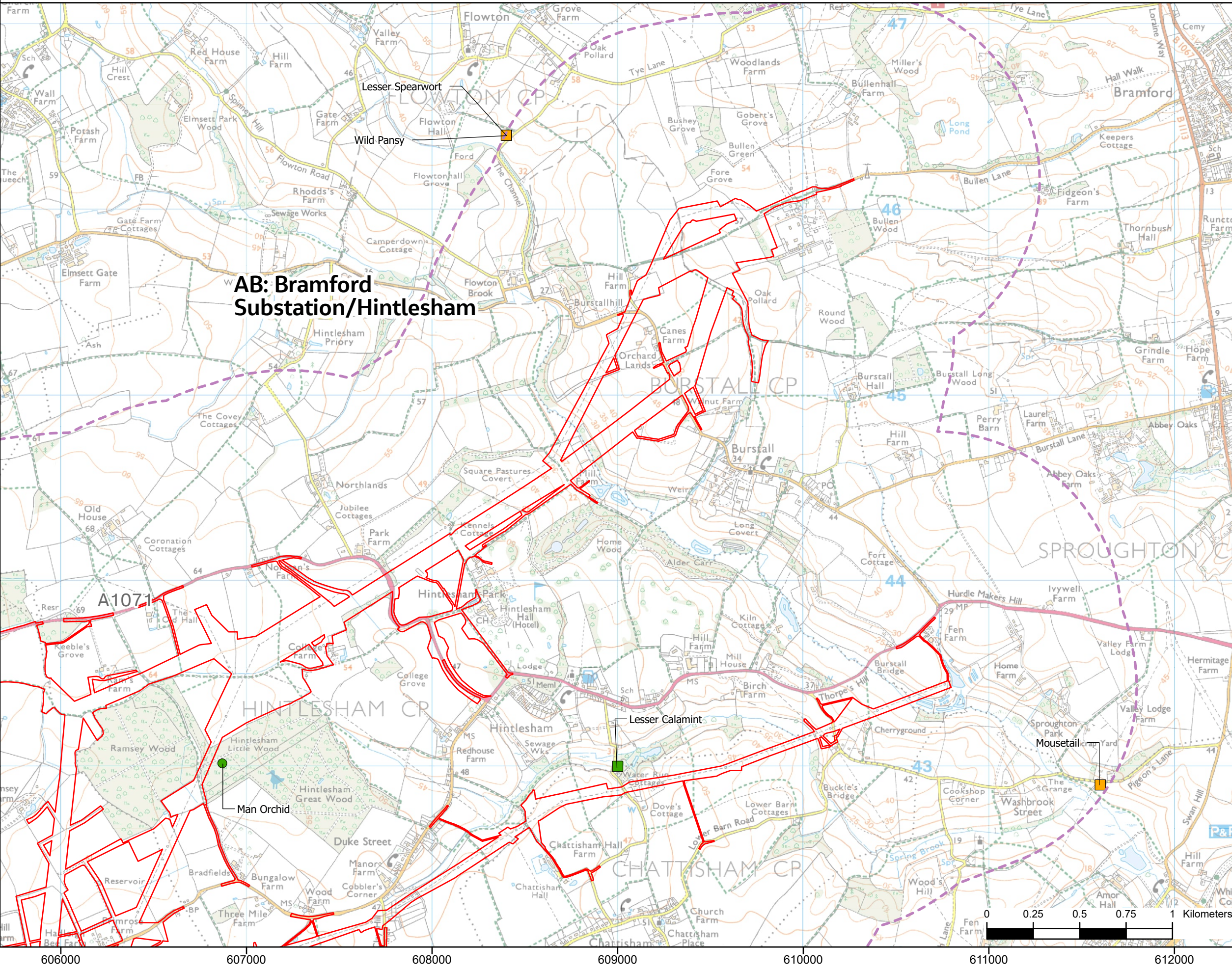






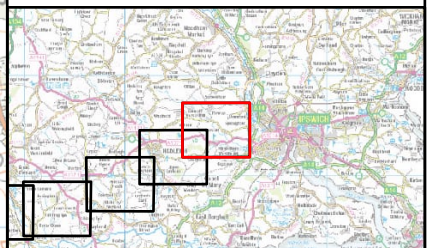
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**AB: Bramford  
Substation/Hintlesham**

- Section boundaries
- Order Limits
- Study area (1km)
- Notable Plant Species**
- Desk Study
- Field study
- Notable Arable Plant Species**
- Desk Study
- Field study
- Arable Plant Assemblages**
- County level
- No Important Arable Plant Assemblage threshold met



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TITLE: **Figure 7.1.6  
Notable Botanical Species and  
Important Arable Plant Assemblages**

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

ORIGINATOR DRAWING NO.  
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NG DRAWING No. BT-JAC-020631-500-0089	SHEET NO. <b>1</b>	NO. OF SHEETS <b>6</b>	ISSUE: <b>A</b>
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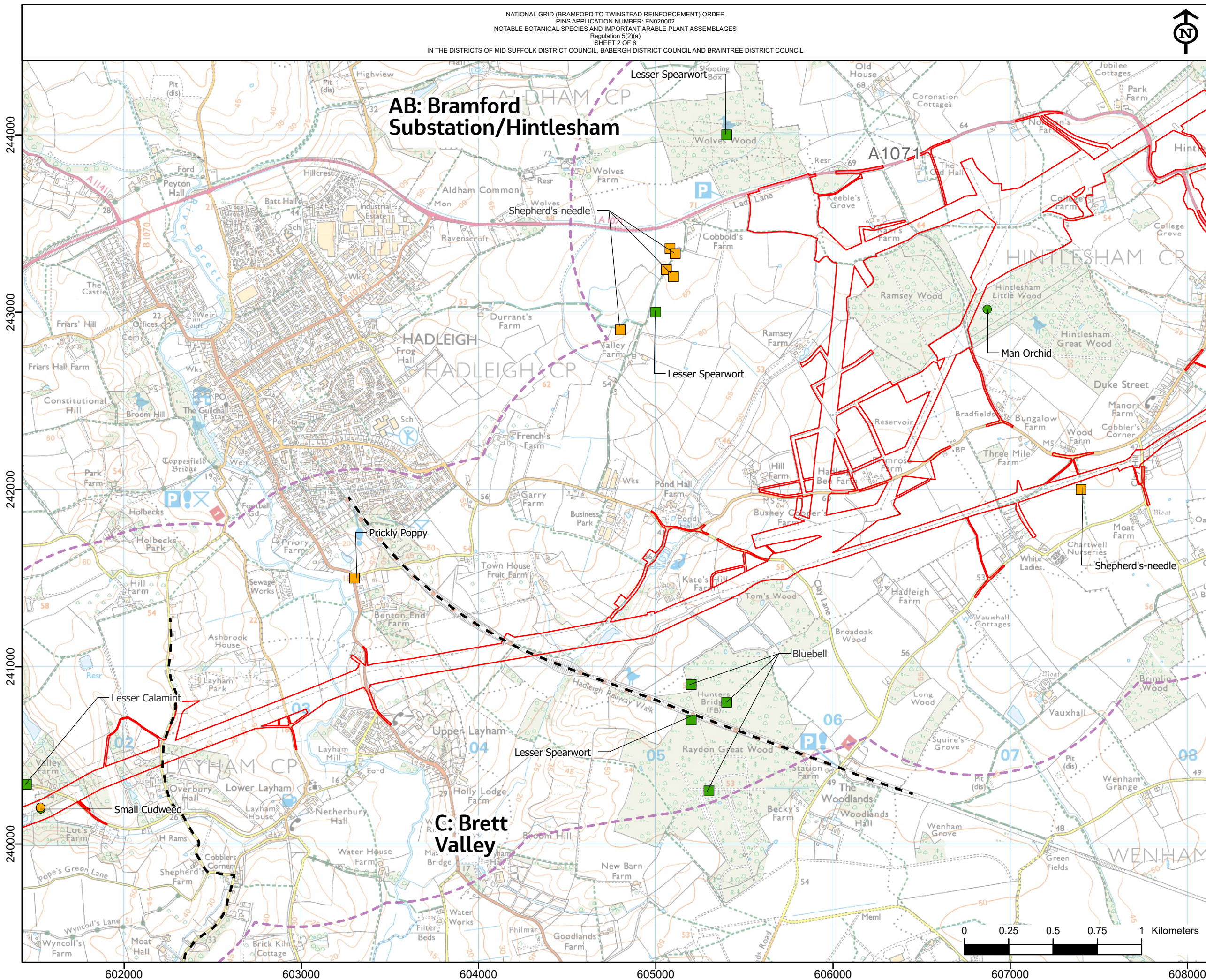


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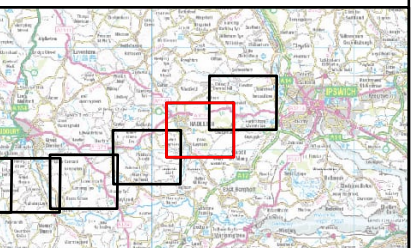




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- Section boundaries
- == Order Limits
- - - Study area (1km)
- Notable Plant Species**
- Desk Study
- Field study
- Notable Arable Plant Species**
- Desk Study
- Field study
- Arable Plant Assemblages**
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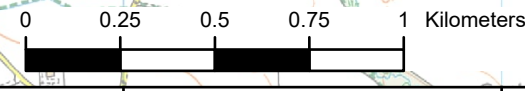


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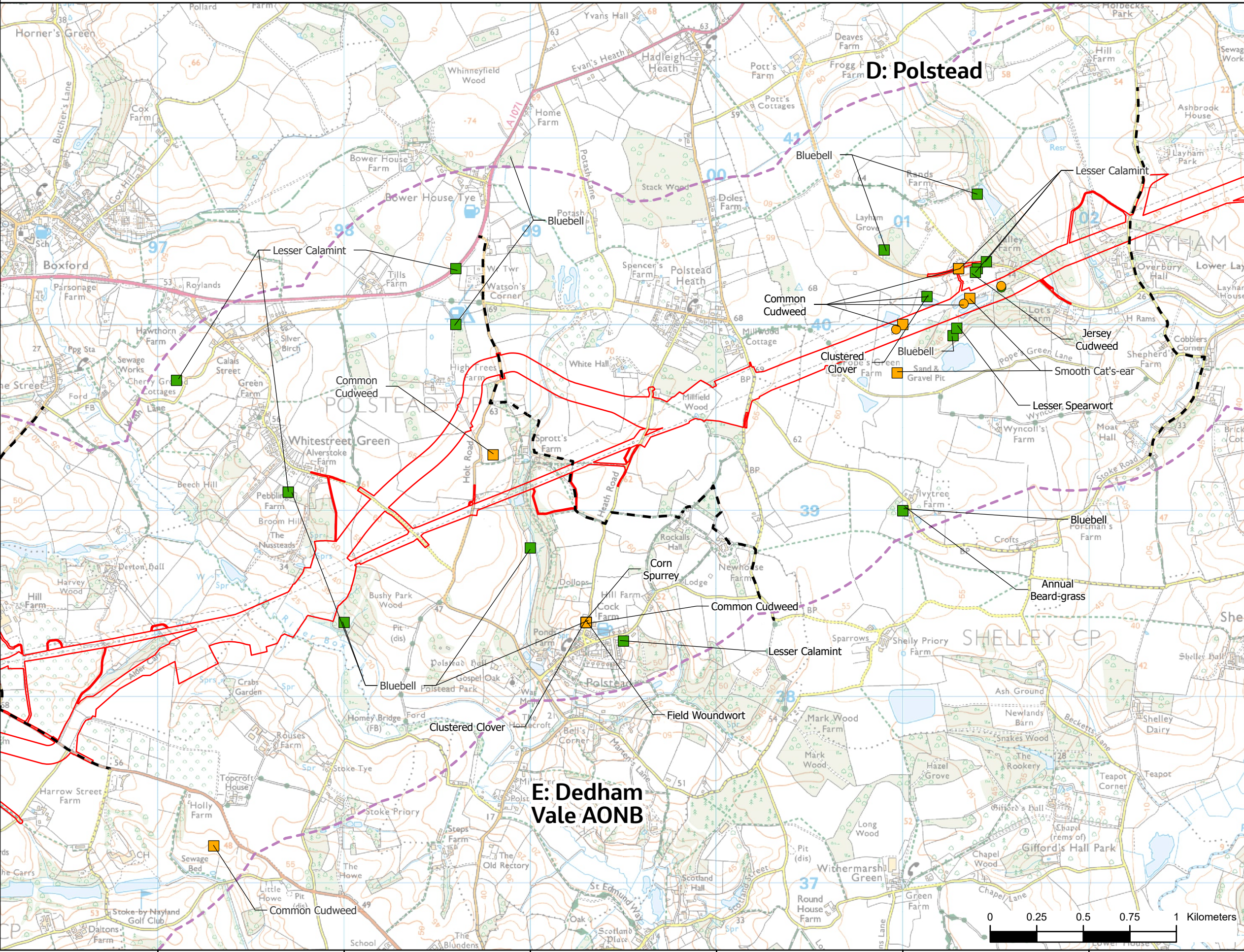
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NATIONAL GRID (BRAMFORD TO TWINSTEAD REINFORCEMENT) ORDER  
PINS APPLICATION NUMBER: EN020002  
NOTABLE BOTANICAL SPECIES AND IMPORTANT ARABLE PLANT ASSEMBLAGES  
Regulation 5(2)(a)  
SHEET 3 OF 6  
IN THE DISTRICTS OF MID SUFFOLK DISTRICT COUNCIL, BABERGH DISTRICT COUNCIL AND BRAINTREE DISTRICT COUNCIL

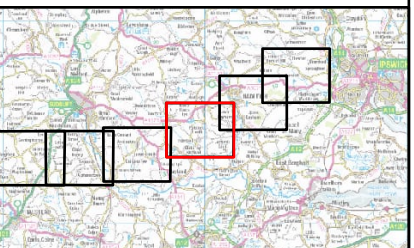


Application Document 6.4

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- Section boundaries
- Order Limits
- Study area (1km)
- Notable Plant Species**
- Green square: Desk Study
- Green circle: Field study
- Notable Arable Plant Species**
- Orange square: Desk Study
- Orange circle: Field study
- Arable Plant Assemblages**
- Blue: County level
- Green: No Important Arable Plant Assemblage threshold met



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TITLE: Figure 7.1.6  
Notable Botanical Species and  
Important Arable Plant Assemblages

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

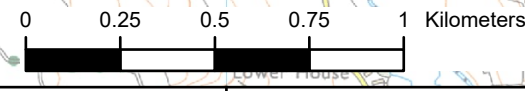
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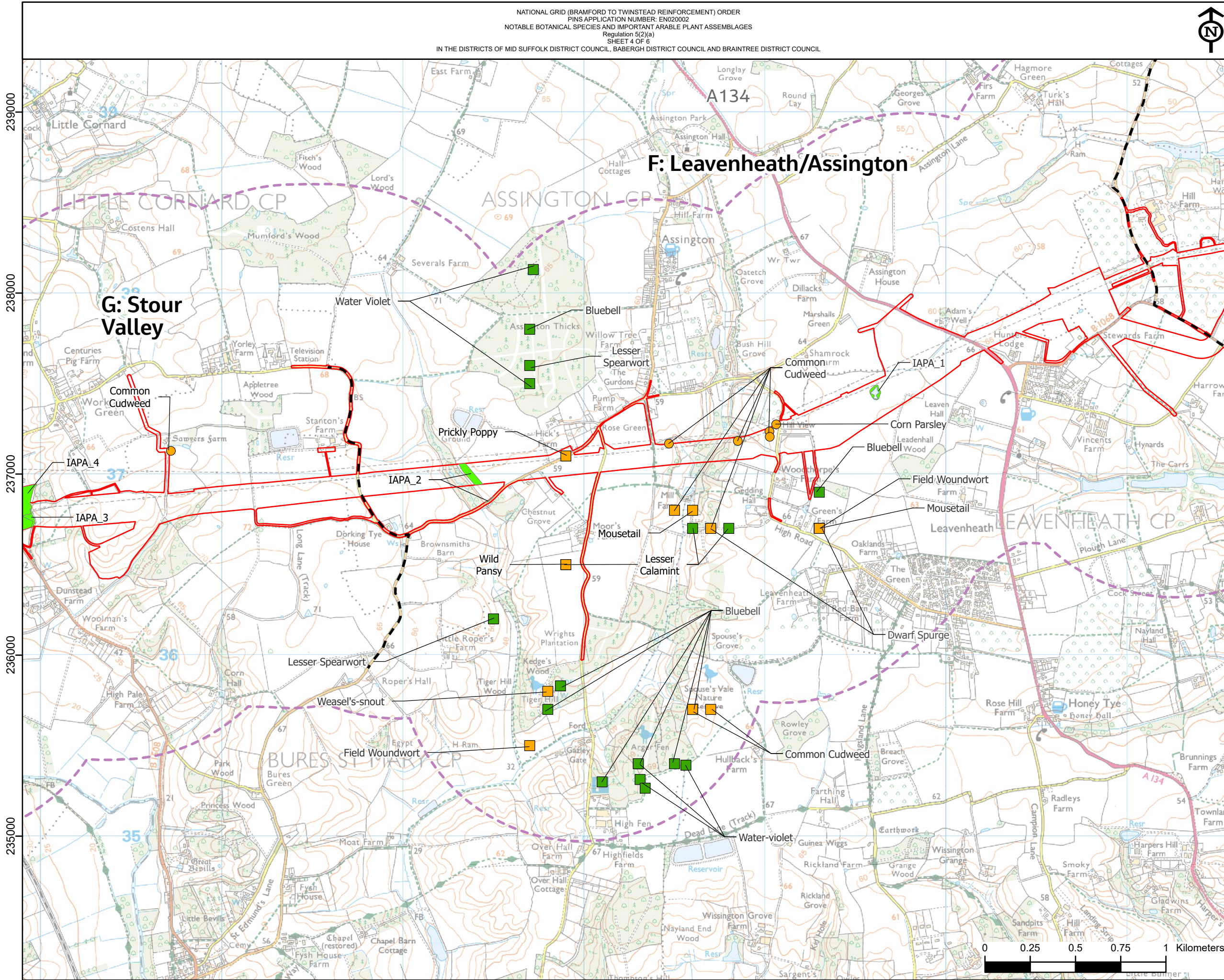


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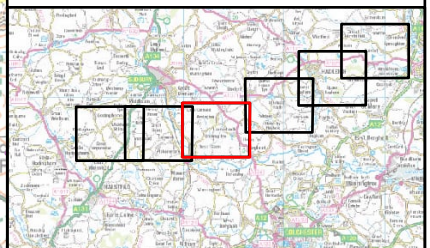




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TITLE: Figure 7.1.6  
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CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge

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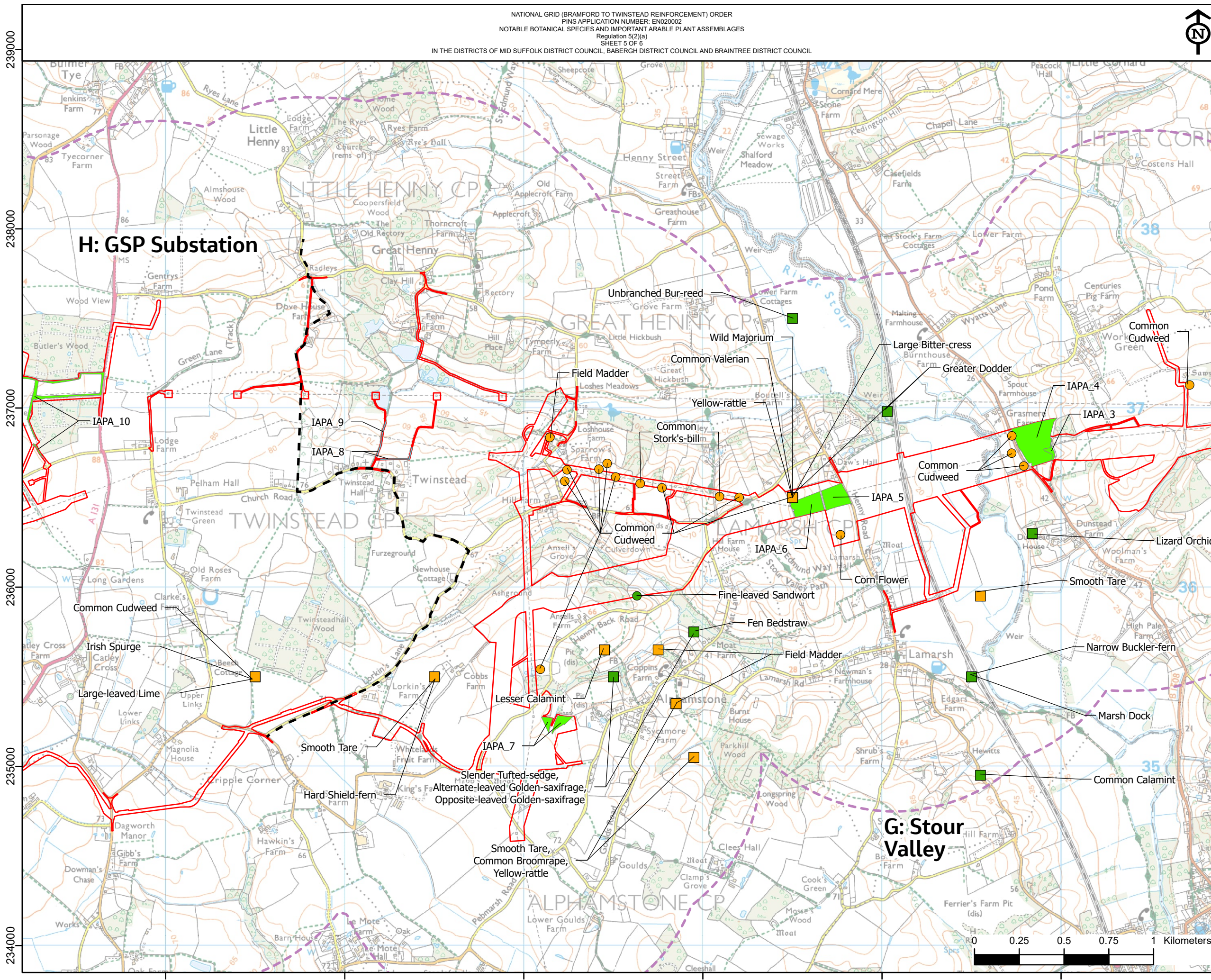
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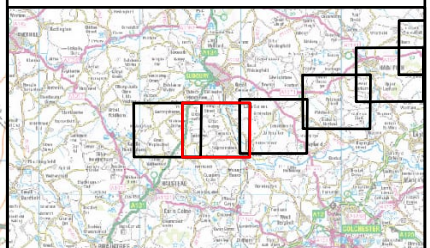




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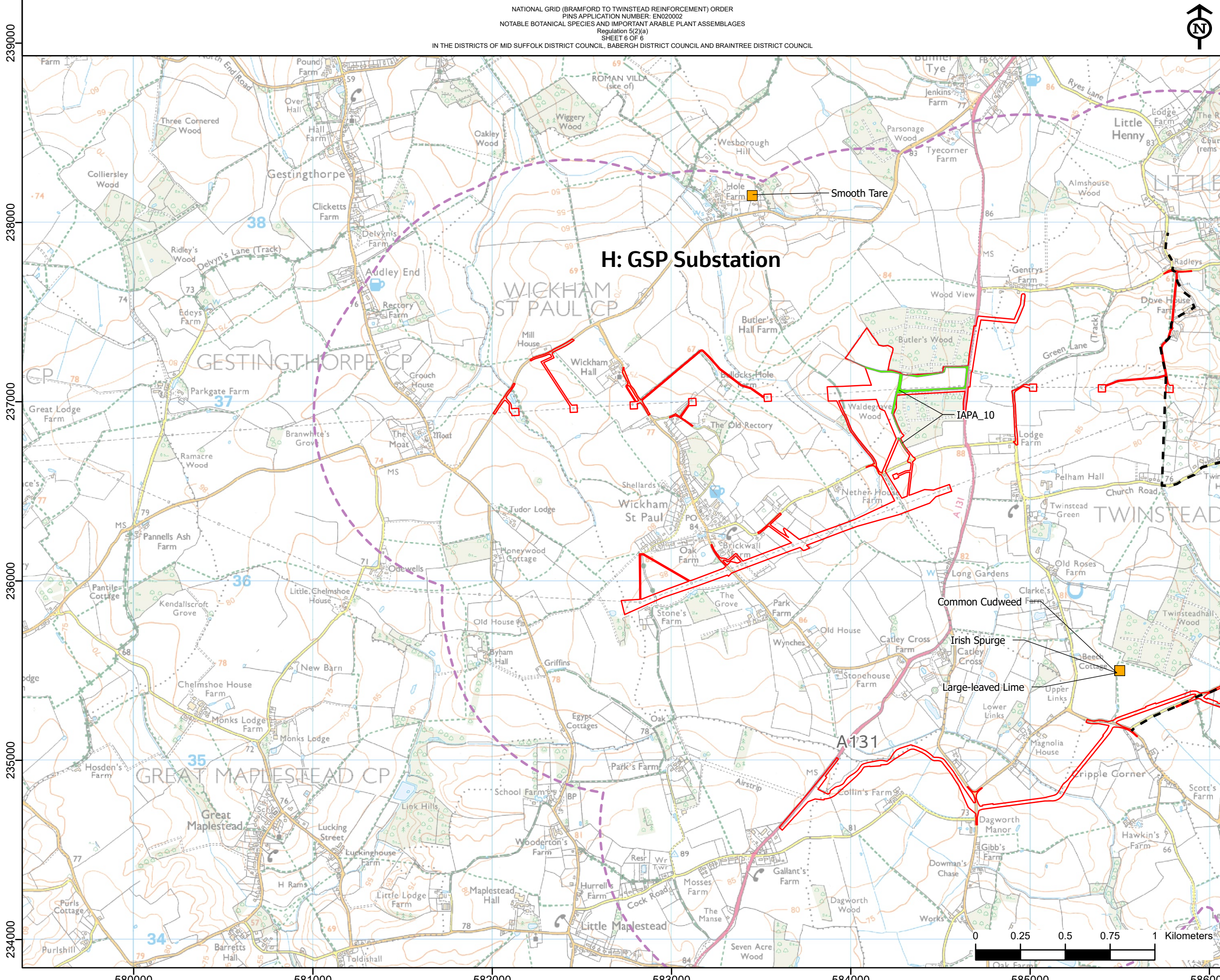
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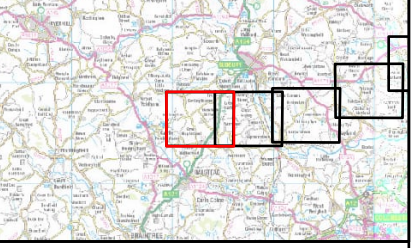




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- Field study
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TITLE: Figure 7.1.6  
 Notable Botanical Species and  
 Important Arable Plant Assemblages

CIRCUIT / SITE :  
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 – Braintree – Bulls Lodge

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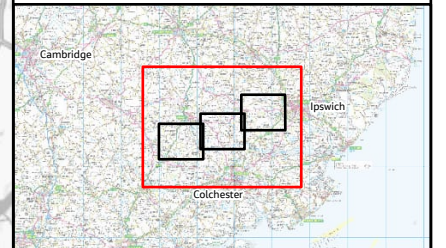
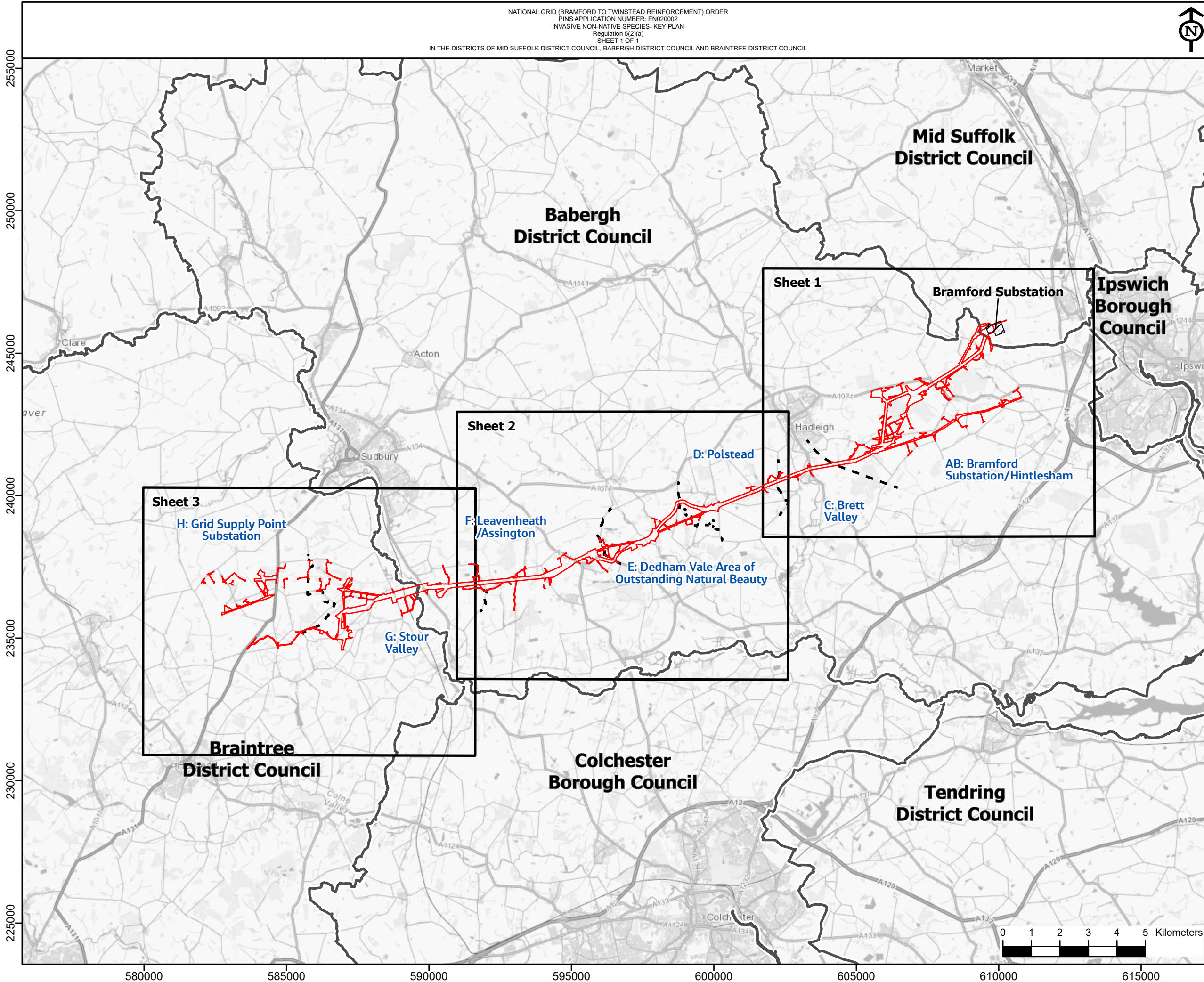
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- Section boundaries
- Order limits
- Local authority districts
- Existing Bramford Substation



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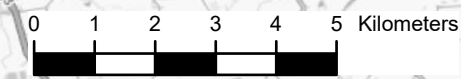


TITLE: Figure 7.1.7  
 Invasive Non-Native Species  
 - Key Plan

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

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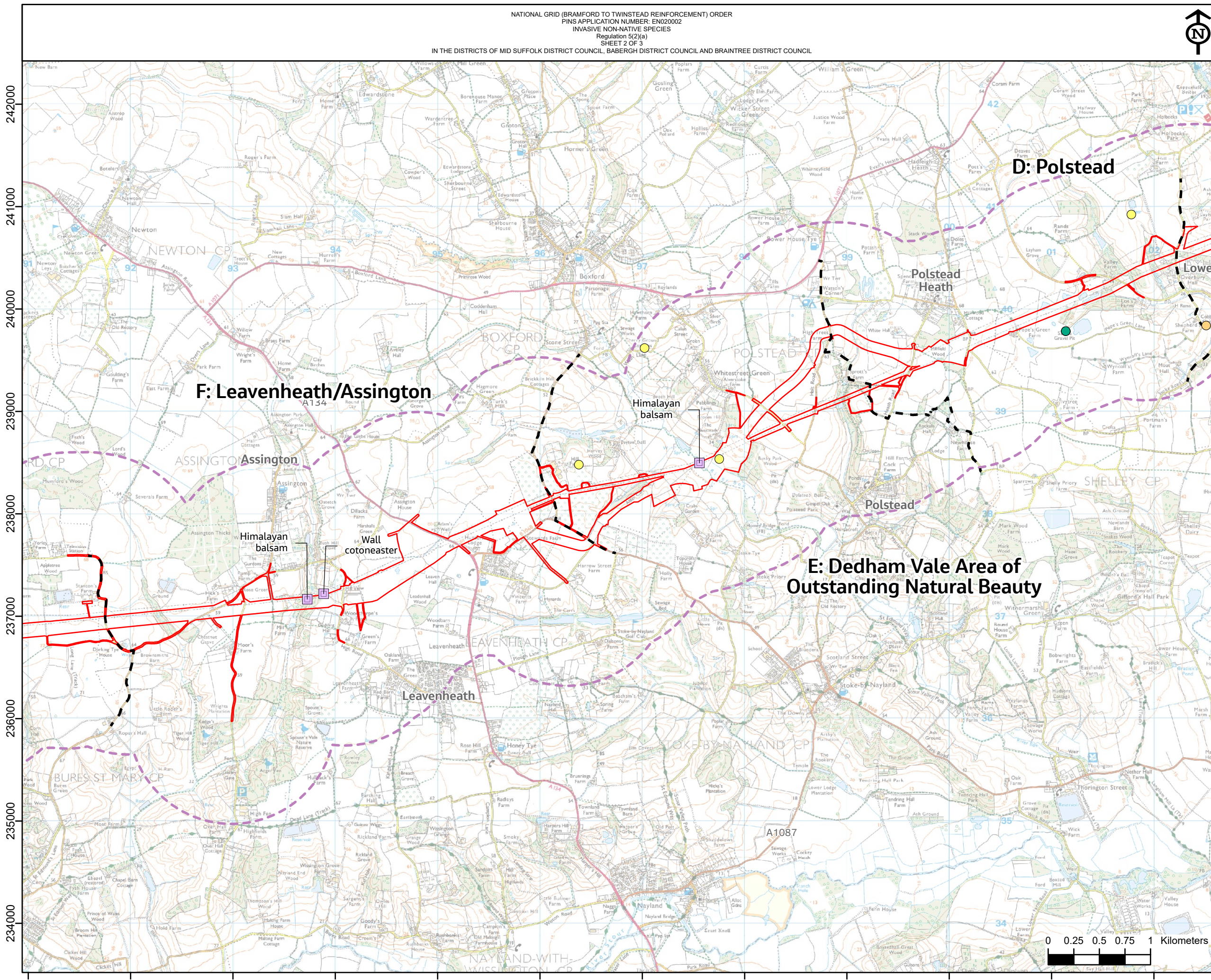




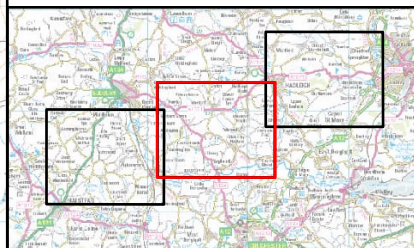




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- Section boundaries
- Order Limits
- Study area (1km)
- Invasive Non-Native Species (INNS)**
- Desk Study Schedule 9 INNS*
- Alexanders
- Canadian waterweed
- Curly waterweed
- Few-flowered garlic
- Giant hogweed
- Himalayan balsam
- New Zealand pigmyweed
- Rhododendron ponticum
- Wall cotoneaster
- Water Fern
- Field Survey INNS (2021/2022)*
- Other INNS
- Schedule 9 INNS



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TITLE: **Figure 7.1.7  
Invasive Non-Native Species**

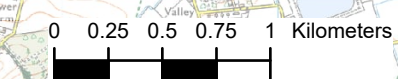
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– Braintree – Bulls Lodge**

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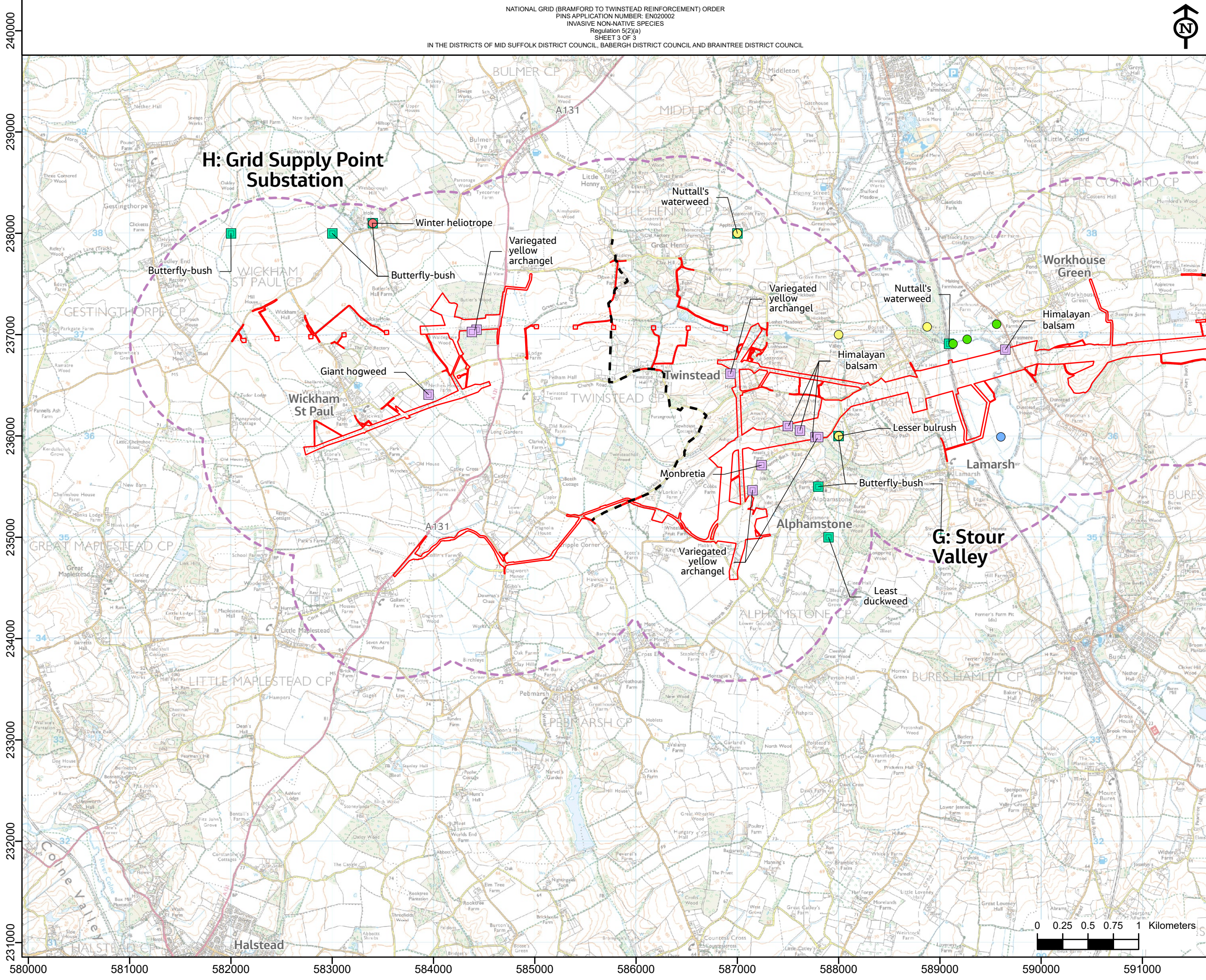


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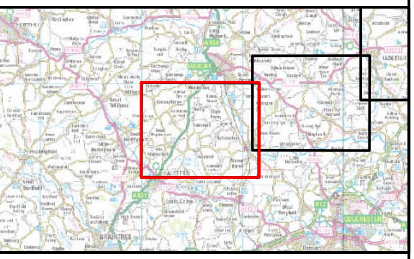




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- Section boundaries
- ▭ Order Limits
- - - Study area (1km)
- Invasive Non-Native Species (INNS)**
- Desk Study Schedule 9 INNS*
- Alexanders
- Canadian waterweed
- Curly waterweed
- Few-flowered garlic
- Giant hogweed
- Himalayan balsam
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- Rhododendron ponticum
- Wall cotoneaster
- Water Fern
- Field Survey INNS (2021/2022)*
- Other INNS
- Schedule 9 INNS



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TITLE: **Figure 7.1.7 Invasive Non-Native Species**

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

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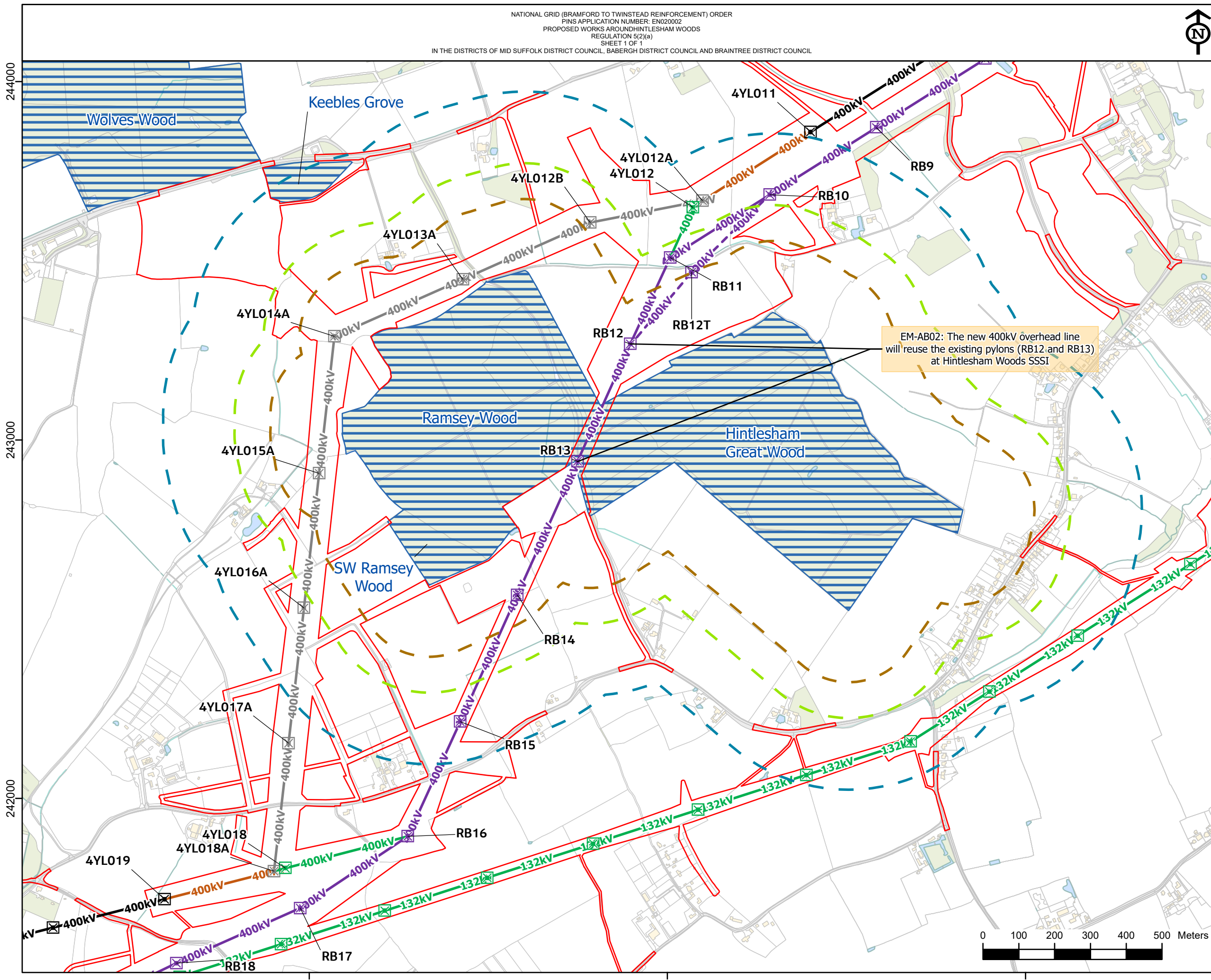
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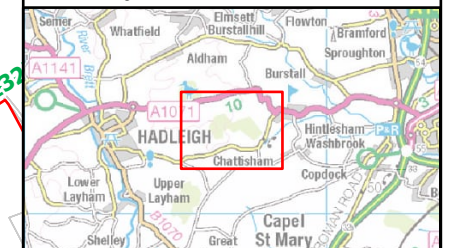


EM-AB02: The new 400kV overhead line will reuse the existing pylons (RB12 and RB13) at Hintlesham Woods SSSI

- Order Limits
- Sites of Special Scientific Interest (SSSI)
- 200m buffer around Hintlesham Woods
- 300m buffer around Hintlesham Woods
- 500m buffer around Hintlesham Woods
- Proposed overhead line
- Existing overhead line
- Proposed modification to overhead line
- Proposed realignment of existing overhead line
- Proposed removal of overhead line
- Temporary overhead line diversion
- Proposed pylon
- Existing pylon
- Proposed pylon realignment
- Proposed pylon removal

Unit	Unit name
001	WOLVES WOOD
002	KEEBLES GROVE
003	RAMSEY WOOD
004	SW RAMSEY WOOD
005	HINTLESHAM GREAT WOOD

Note - The buffers are based on the main construction activities in and around the woods. These exclude areas of planting, which would typically be undertaken outside of bird nesting season.



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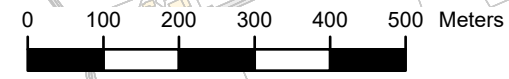
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Proposed Works around Hintlesham Woods

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

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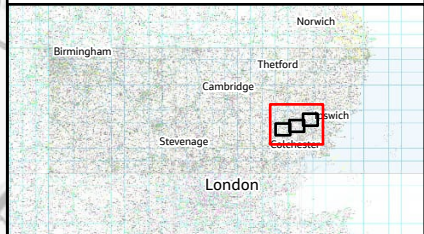
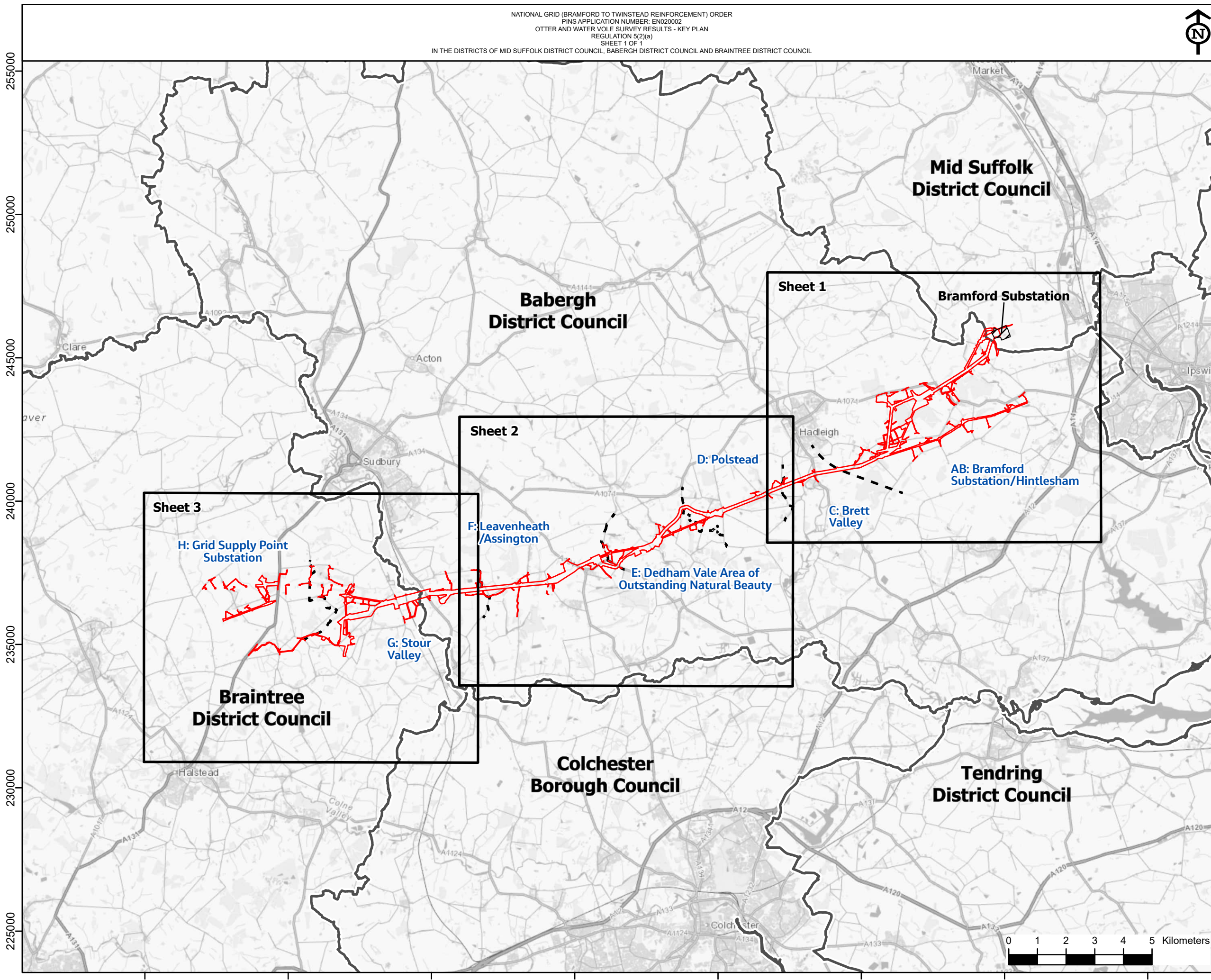




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Legend

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



NG Investment No. ETX/01142


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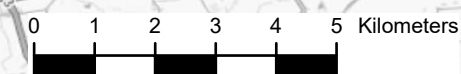
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Figure 7.2.1 Otter and Water Vole Survey Results - Key Plan

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Bramford – Pelham & Bramford – Braintree – Bulls Lodge

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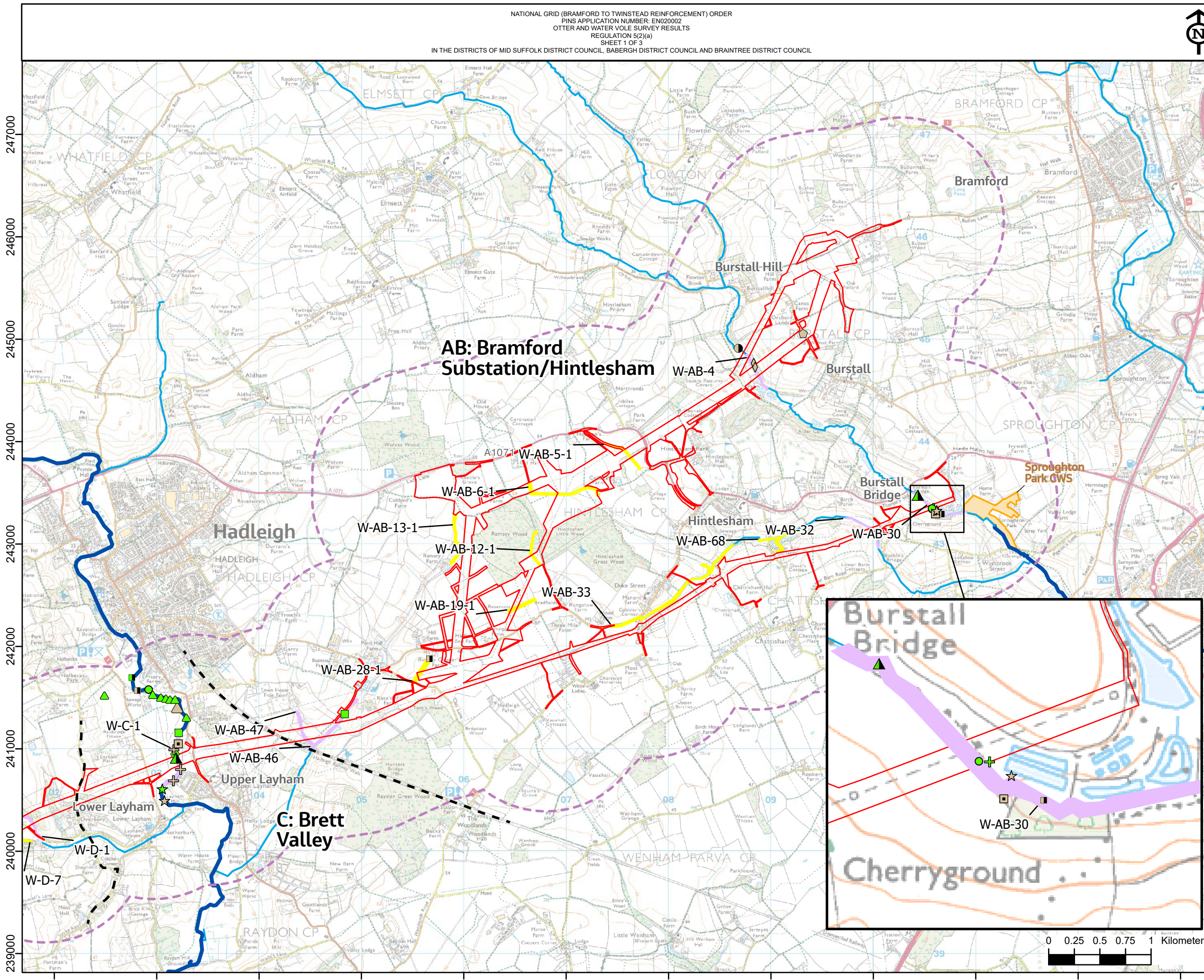
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- Legend**
- Section boundaries
  - Order Limits
  - ▭ Study area (1km)
  - Main rivers
  - Non-main rivers
  - County Wildlife Site (CWS) with otter and/or water vole presence cited
- Waterbody survey area**
- Not surveyed
  - Suitable
  - Unsuitable
- Desk study results (2021)**
- Mink - Footprint
  - Mink - Undefined Record
  - Otter - Live Sighting
  - Otter - Spraint
  - Otter - Undefined Record
  - Water Vole - Live sighting
  - Water Vole - Undefined record
- Previous survey results (2012/2013)**
- Otter
  - Watervole
- Field survey results (May 2021 to July 2022)**
- ★ Mink - Sighting - Anecdotal
  - ◇ Otter - Potential Holt
  - ⊕ Otter - Potential Hover
  - ★ Otter - Sighting - Anecdotal
  - Otter - Dead animal
  - Otter - Footprint
  - Otter - Spraint
  - Water Vole - Burrow
  - Water Vole - Cropped Vegetation
  - Water Vole - Feeding Station
  - ★ Water Vole - Sighting - Anecdotal
  - ▲ Water Vole - Droppings
  - Water Vole - Live sighting



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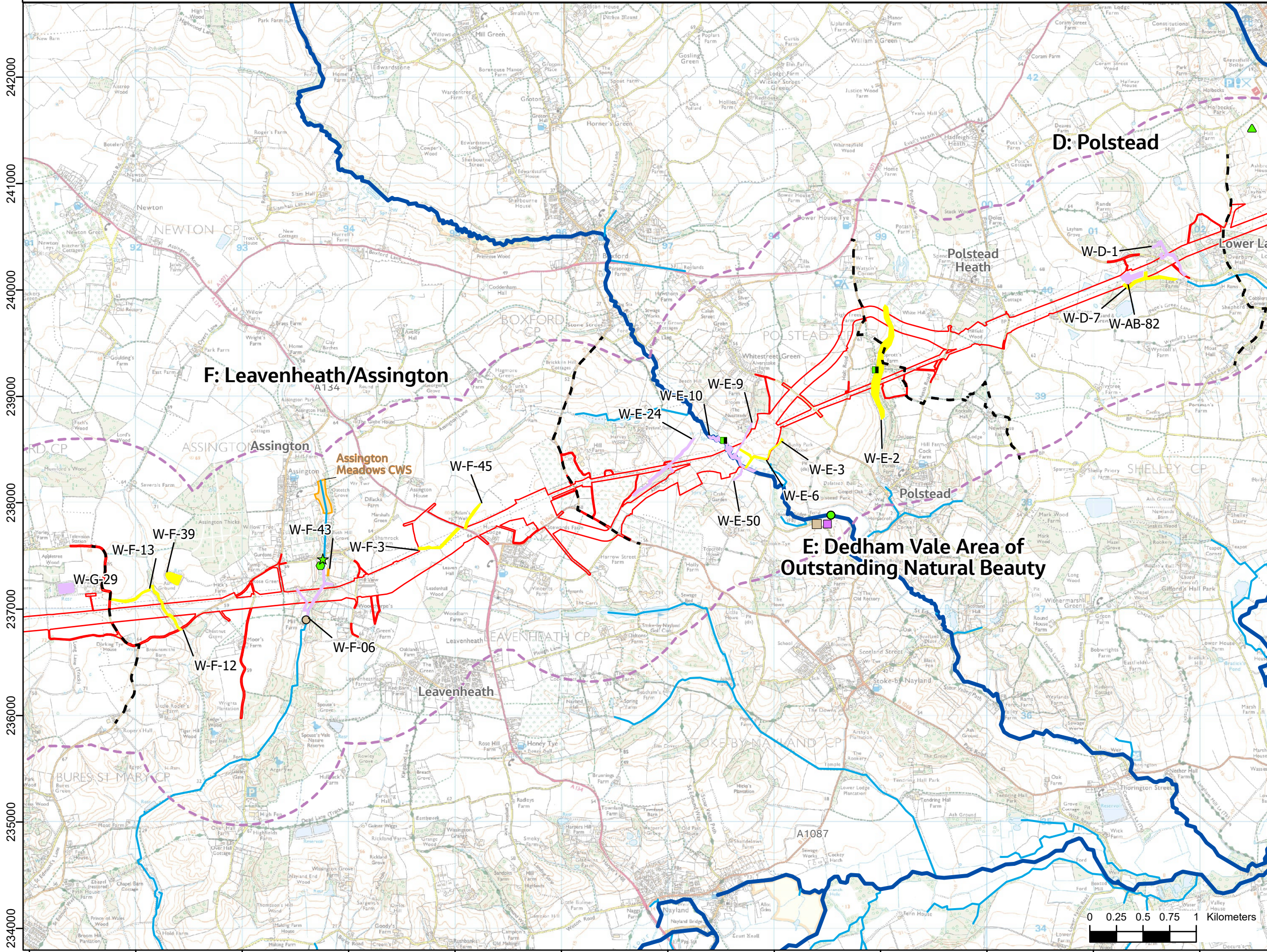
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NG DRAWING No. BT-JAC-020631-500-0091	SHEET NO. 1
SCALE: 1:35000	NO. OF SHEETS 3
	ISSUE: A





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- Legend**
- Section boundaries
  - Order Limits
  - ▭ Study area (1km)
  - Main rivers
  - Non-main rivers
  - County Wildlife Site (CWS) with otter and/or water vole presence cited
- Waterbody survey area**
- Not surveyed
  - Suitable
  - Unsuitable
- Desk study results (2021)**
- Mink - Footprint
  - ▲ Mink - Undefined Record
  - Otter - Live Sighting
  - Otter - Spraint
  - ▲ Otter - Undefined Record
  - Water Vole - Live sighting
  - ▲ Water Vole - Undefined record
- Previous survey results (2012/2013)**
- Otter
  - Watervole
- Field survey results (May 2021 to July 2022)**
- ★ Mink - Sighting - Anecdotal
  - ◆ Otter - Potential Holt
  - ⊕ Otter - Potential Hover
  - ★ Otter - Sighting - Anecdotal
  - Otter - Dead animal
  - Otter - Footprint
  - Otter - Spraint
  - Water Vole - Burrow
  - Water Vole - Cropped Vegetation
  - Water Vole - Feeding Station
  - ★ Water Vole - Sighting - Anecdotal
  - ▲ Water Vole - Droppings
  - Water Vole - Live sighting



NG Investment No. ETX/01142

ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	02/2023	Rev A for DCO Application	GW	LG	CW

PROJECT: Bramford to Twinstead Reinforcement  
**nationalgrid**

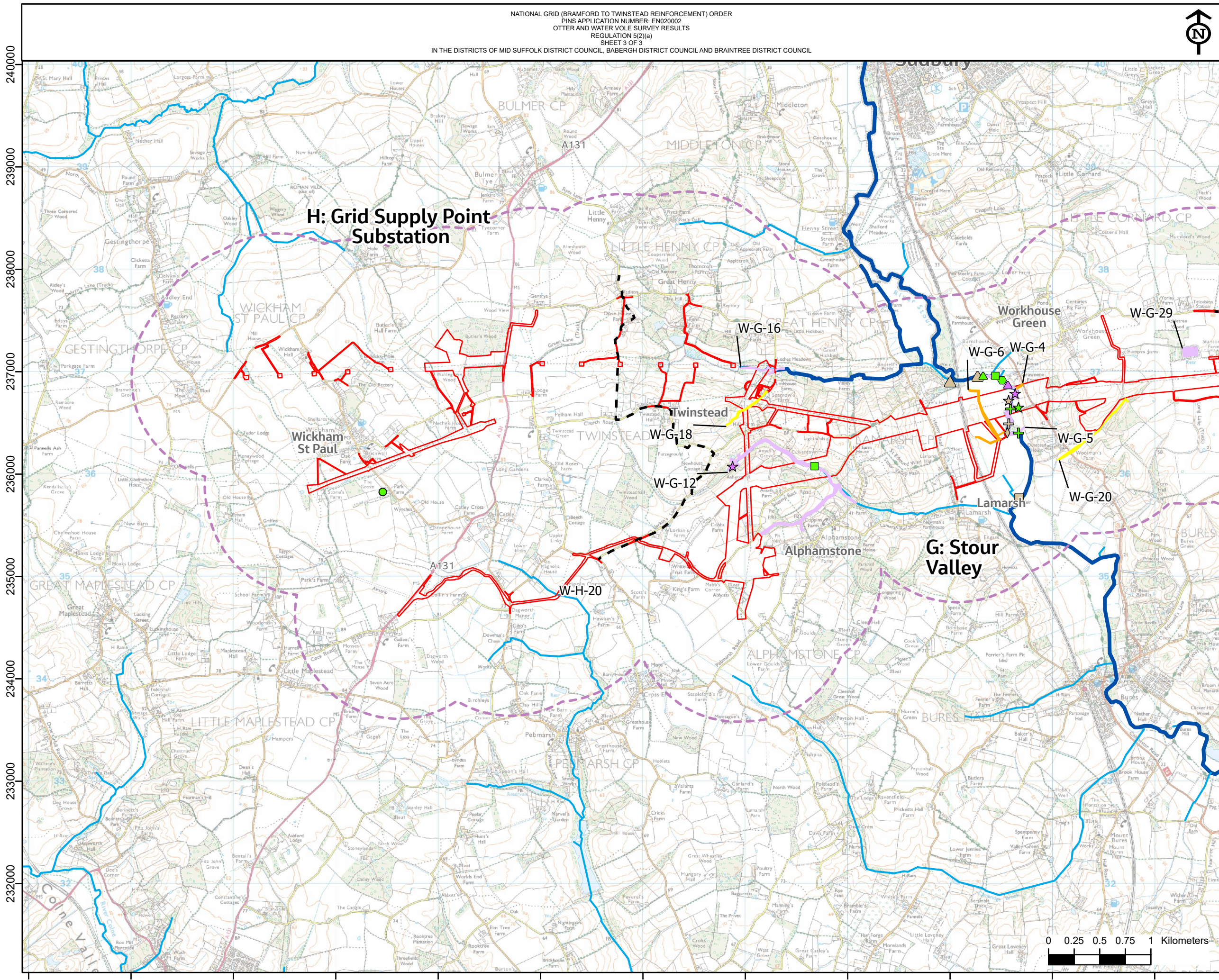
TITLE: 7.2.1 Otter and Water Vole Survey Results

CIRCUIT / SITE : Bramford – Pelham & Bramford – Braintree – Bulls Lodge		GIS
ORIGINATOR DRAWING NO. AAA_BTT_OtterWaterVole_Fig7_2_1bc_Rev01		A3
NG DRAWING No. BT-JAC-020631-500-0091	SHEET NO. 2	NO. OF SHEETS 3
SCALE: 1:35000		ISSUE: A





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- Legend**
- Section boundaries
  - Order Limits
  - ▭ Study area (1km)
  - Main rivers
  - Non-main rivers
  - County Wildlife Site (CWS) with otter and/or water vole presence cited
- Waterbody survey area**
- Not surveyed
  - Suitable
  - Unsuitable
- Desk study results (2021)**
- Mink - Footprint
  - Mink - Undefined Record
  - Otter - Live Sighting
  - Otter - Spraint
  - Otter - Undefined Record
  - Water Vole - Live sighting
  - Water Vole - Undefined record
- Previous survey results (2012/2013)**
- Otter
  - Watervole
- Field survey results (May 2021 to July 2022)**
- ★ Mink - Sighting - Anecdotal
  - ◇ Otter - Potential Holt
  - ⊕ Otter - Potential Hover
  - ★ Otter - Sighting - Anecdotal
  - ⊕ Otter - Dead animal
  - ⊕ Otter - Footprint
  - ⊕ Otter - Spraint
  - Water Vole - Burrow
  - ⊕ Water Vole - Cropped Vegetation
  - Water Vole - Feeding Station
  - ★ Water Vole - Sighting - Anecdotal
  - ▲ Water Vole - Droppings
  - Water Vole - Live sighting



NG Investment No. ETX/01142

A	02/2023	Rev A for DCO Application	GW	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

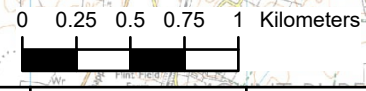
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TITLE: 7.2.1 Otter and Water Vole Survey Results

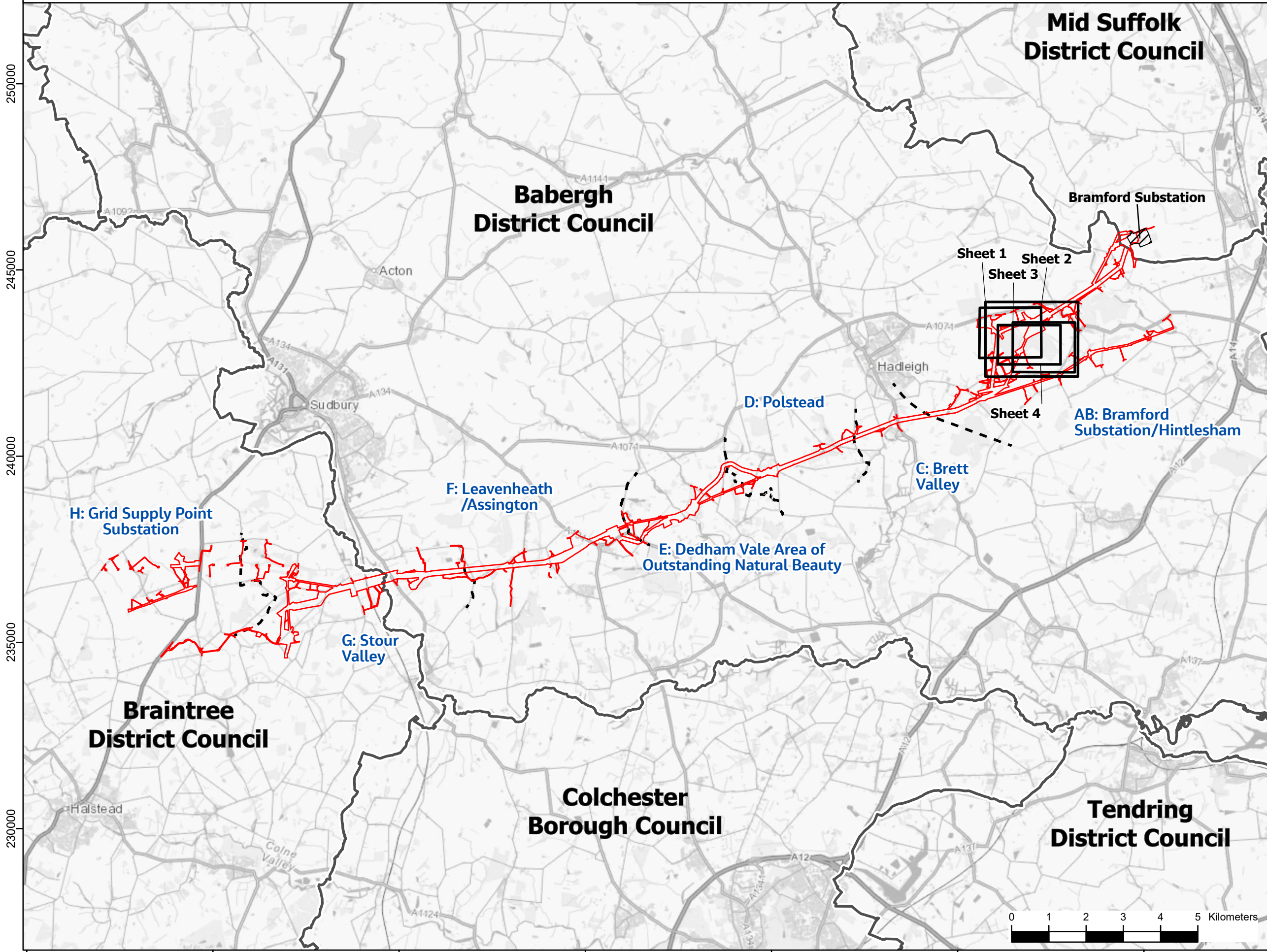
CIRCUIT / SITE : Bramford – Pelham & Bramford – Braitree – Bulls Lodge

ORIGINATOR DRAWING NO. AAA\_BTT\_OtterWaterVole\_Fig7\_2\_1bc\_Rev01

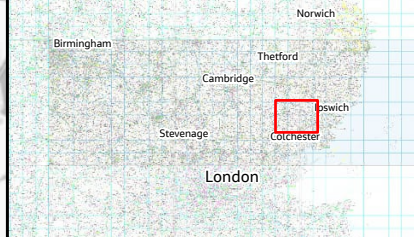
NG DRAWING No. BT-JAC-020631-500-0091	SHEET NO. 3	NO. OF SHEETS 3	ISSUE: A
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- Legend
- - - Section boundaries
  - Order Limits
  - ▭ Local authority districts
  - ▨ Existing Bramford Substation



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	02/2023	Rev A for DCO Application	GW	LG	CW

PROJECT: Bramford to Twinstead Reinforcement

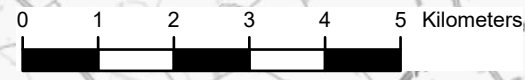


TITLE: Figure 7.2.2 Hintlesham Woods Breeding Bird Survey – Priority Species – Key Plan

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_BreedingBirds\_Fig7.2.2\_Rev01\_KeyPlan

NG DRAWING No. BT-JAC-020631-500-0051	SHEET NO. 1	NO. OF SHEETS 1	ISSUE: A
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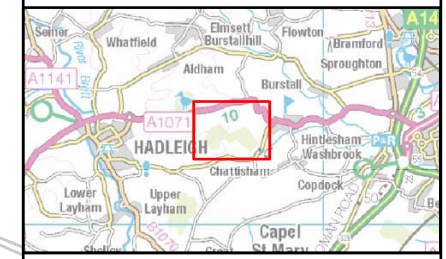
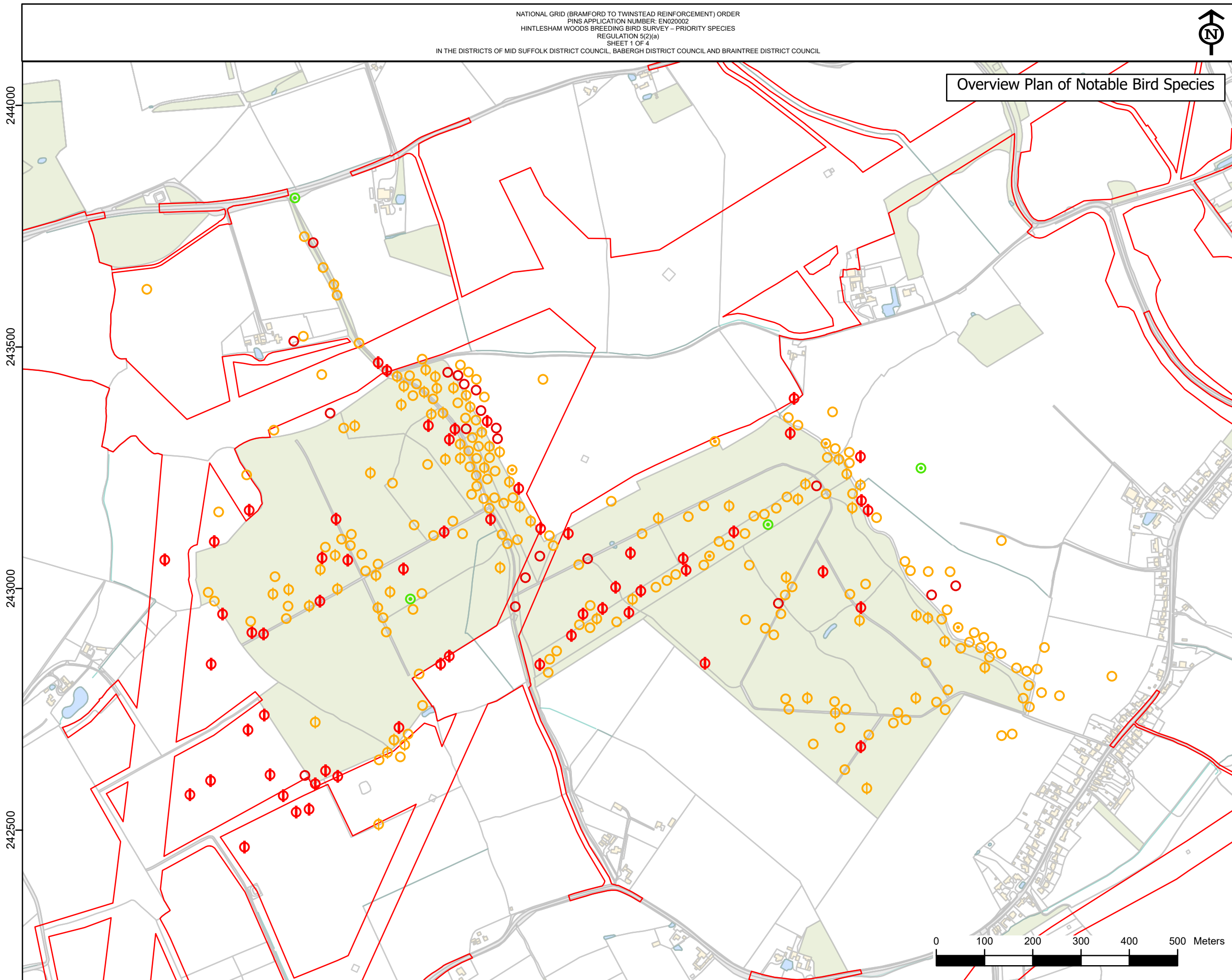




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Overview Plan of Notable Bird Species

- Order Limits
- Notable bird species**
- Bird of Conservation Concern - Red Listed
- ◐ Bird of Conservation Concern - Red Listed; Species of Principal Importance
- Bird of Conservation Concern - Amber Listed
- ◐ Bird of Conservation Concern - Amber Listed; Species of Principal Importance
- ◑ Bird of Conservation Concern - Amber Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)
- ◑ Bird of Conservation Concern - Green Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)



NG Investment No. ETX/01142

A	02/2023	Rev A for DCO Application	PM	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

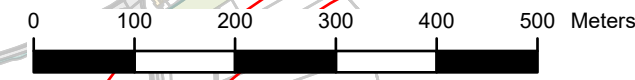


TITLE: **7.2.2 Hintlesham Woods Breeding Bird Survey – Priority Species**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_BreedingBirds\_Fig7\_2\_2a\_Rev01** **A3**

NG DRAWING No. BT-JAC-020631-500-0051	SHEET NO. <b>1</b>	NO. OF SHEETS <b>4</b>	ISSUE: <b>A</b>
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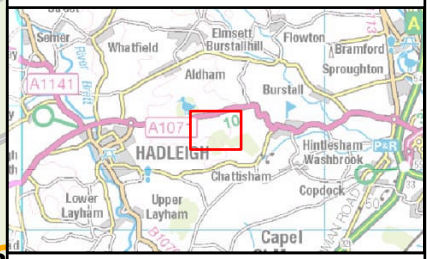
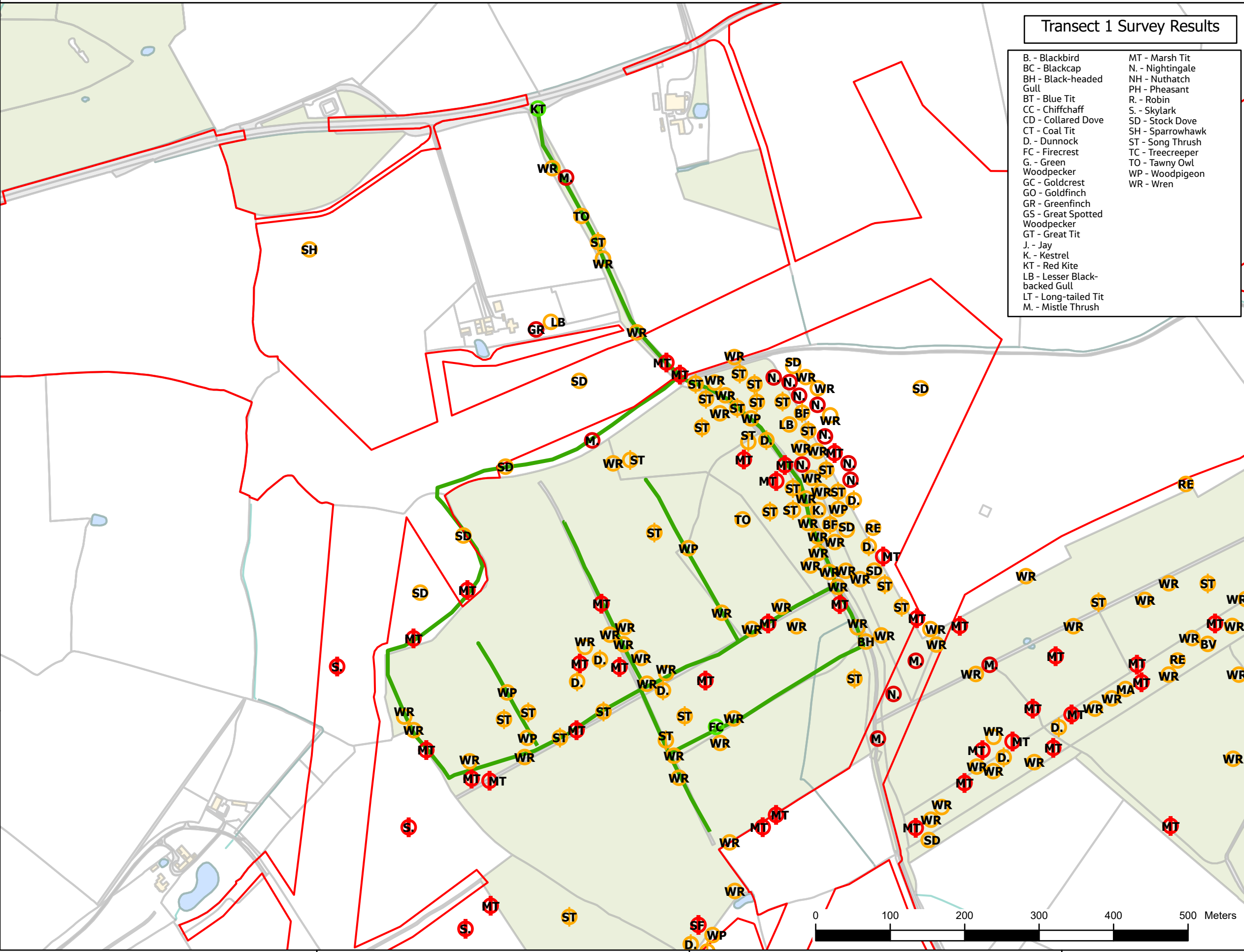
Transect 1 Survey Results

- |                               |                  |
|-------------------------------|------------------|
| B. - Blackbird                | MT - Marsh Tit   |
| BC - Blackcap                 | N. - Nightingale |
| BH - Black-headed Gull        | NH - Nuthatch    |
| BT - Blue Tit                 | PH - Pheasant    |
| CC - Chiffchaff               | R. - Robin       |
| CD - Collared Dove            | S. - Skylark     |
| CT - Coal Tit                 | SD - Stock Dove  |
| D. - Dunnock                  | SH - Sparrowhawk |
| FC - Firecrest                | ST - Song Thrush |
| G. - Green Woodpecker         | TC - Treecreeper |
| GC - Goldcrest                | TO - Tawny Owl   |
| GO - Goldfinch                | WP - Woodpigeon  |
| GR - Greenfinch               | WR - Wren        |
| GS - Great Spotted Woodpecker |                  |
| GT - Great Tit                |                  |
| J. - Jay                      |                  |
| K. - Kestrel                  |                  |
| KT - Red Kite                 |                  |
| LB - Lesser Black-backed Gull |                  |
| LT - Long-tailed Tit          |                  |
| M. - Mistle Thrush            |                  |

- Legend**
- Order Limits
  - Transect 1
- Notable bird species**
- Bird of Conservation Concern - Red Listed
  - ⊕ Bird of Conservation Concern - Red Listed; Species of Principal Importance
  - Bird of Conservation Concern - Amber Listed
  - ⊕ Bird of Conservation Concern - Amber Listed; Species of Principal Importance
  - ⊙ Bird of Conservation Concern - Amber Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)
  - ⊙ Bird of Conservation Concern - Green Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)

243500

243000



NG Investment No. ETX/01142

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PROJECT: Bramford to Twinstead Reinforcement



TITLE: 7.2.2 Hintlesham Woods Breeding Bird Survey – Priority Species

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

ORIGINATOR DRAWING NO. AAA\_BTT\_BreedingBirds\_Fig7\_2\_2b\_Rev01

NG DRAWING No. BT-JAC-020631-500-0051	SHEET NO. 2	NO. OF SHEETS 4	ISSUE: A
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SCALE: 1:5000



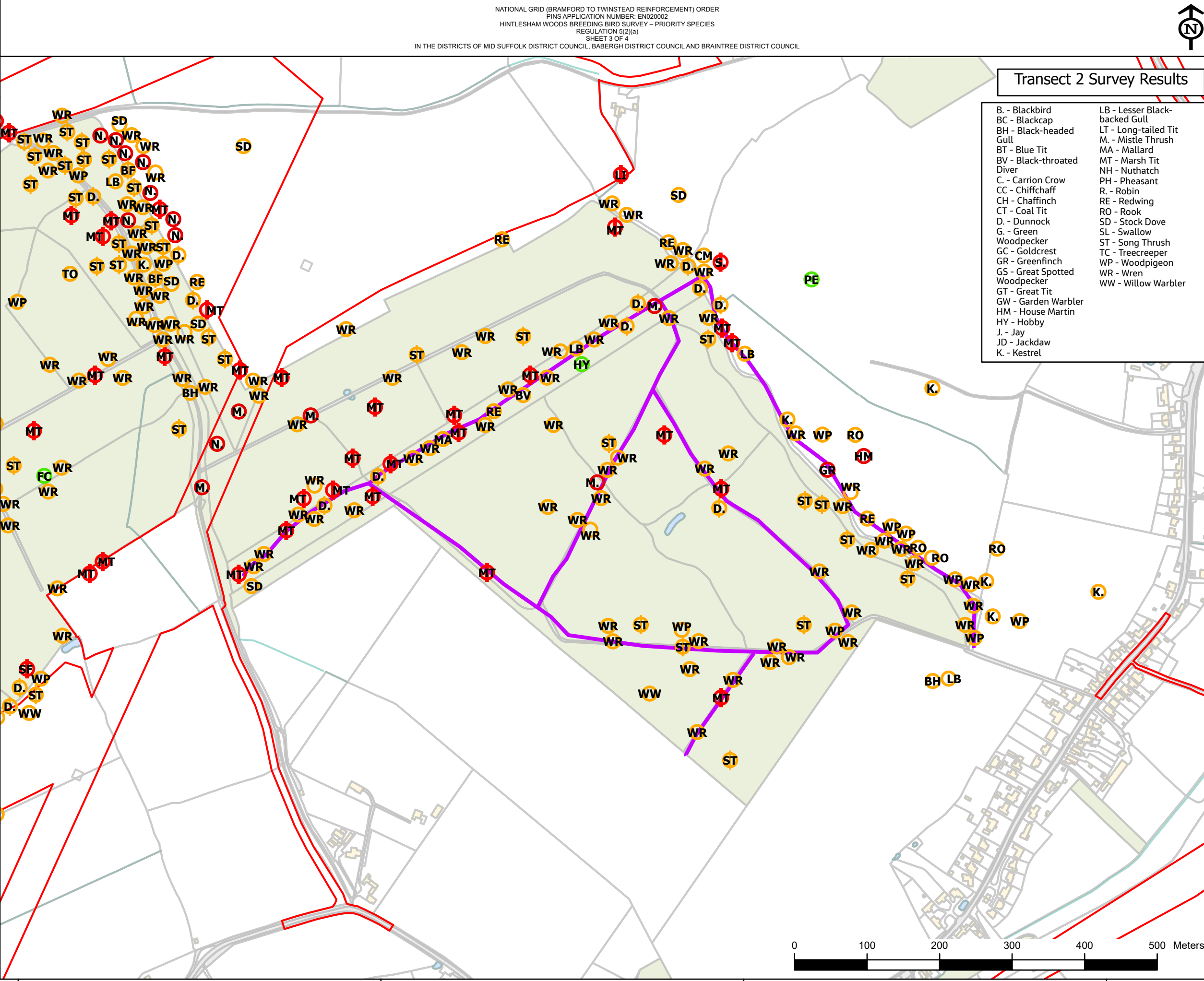
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243500

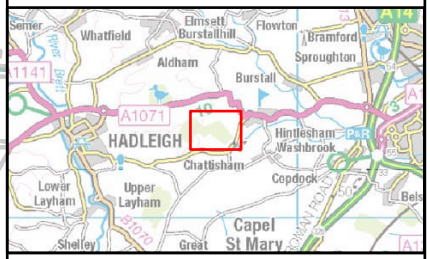
243000

242500



- ### Transect 2 Survey Results
- |                               |                               |
|-------------------------------|-------------------------------|
| B. - Blackbird                | LB - Lesser Black-backed Gull |
| BC - Blackcap                 | LT - Long-tailed Tit          |
| BH - Black-headed Gull        | M. - Mistle Thrush            |
| BT - Blue Tit                 | MA - Mallard                  |
| BV - Black-throated Diver     | MT - Marsh Tit                |
| C. - Carrion Crow             | NH - Nuthatch                 |
| CC - Chiffchaff               | PH - Pheasant                 |
| CH - Chaffinch                | R. - Robin                    |
| CT - Coal Tit                 | RE - Redwing                  |
| D. - Dunnock                  | RO - Rook                     |
| G. - Green Woodpecker         | SD - Stock Dove               |
| GC - Goldcrest                | SL - Swallow                  |
| GR - Greenfinch               | ST - Song Thrush              |
| GS - Great Spotted Woodpecker | TC - Treecreeper              |
| GT - Great Tit                | WP - Woodpigeon               |
| GW - Garden Warbler           | WR - Wren                     |
| HM - House Martin             | WW - Willow Warbler           |
| HY - Hobby                    |                               |
| J. - Jay                      |                               |
| JD - Jackdaw                  |                               |
| K. - Kestrel                  |                               |

- ### Legend
- Order Limits
  - Transect 2
- ### Notable bird species
- Bird of Conservation Concern - Red Listed
  - Bird of Conservation Concern - Red Listed; Species of Principal Importance
  - Bird of Conservation Concern - Amber Listed
  - Bird of Conservation Concern - Amber Listed; Species of Principal Importance
  - Bird of Conservation Concern - Amber Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)
  - Bird of Conservation Concern - Green Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)



NG Investment No. ETX/01142

A	02/2023	Rev A for DCO Application	PM	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

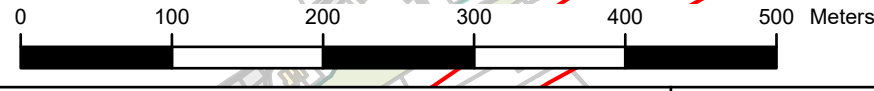


TITLE: 7.2.2 Hintlesham Woods Breeding Bird Survey – Priority Species

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

ORIGINATOR DRAWING NO. AAA\_BTT\_BreedingBirds\_Fig7\_2\_2b\_Rev01 A3

NG DRAWING No. BT-JAC-020631-500-0051	SHEET NO. 3	NO. OF SHEETS 4	ISSUE: A
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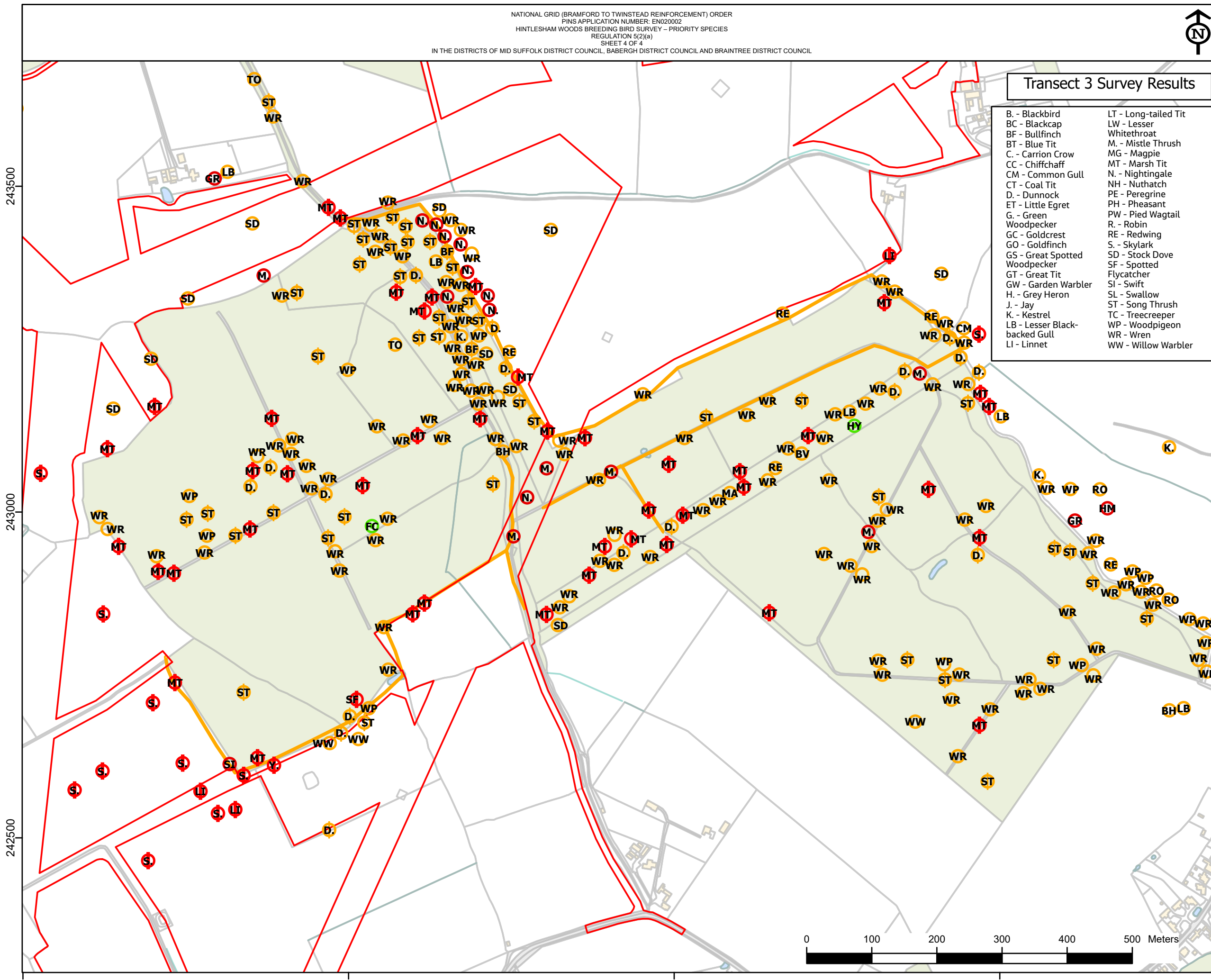


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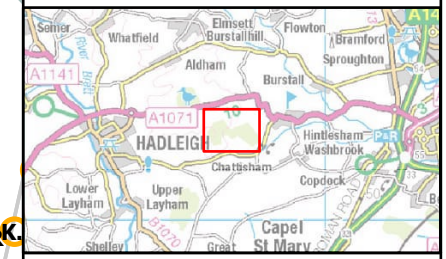
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**Transect 3 Survey Results**

- |                               |                         |
|-------------------------------|-------------------------|
| B - Blackbird                 | LT - Long-tailed Tit    |
| BC - Blackcap                 | LW - Lesser Whitethroat |
| BF - Bullfinch                | M - Mistle Thrush       |
| BT - Blue Tit                 | MG - Magpie             |
| C - Carrion Crow              | MT - Marsh Tit          |
| CC - Chiffchaff               | N - Nightingale         |
| CM - Common Gull              | NH - Nuthatch           |
| CT - Coal Tit                 | PE - Peregrine          |
| D - Dunnock                   | PH - Pheasant           |
| ET - Little Egret             | PW - Pied Wagtail       |
| G - Green Woodpecker          | R - Robin               |
| GC - Goldcrest                | RE - Redwing            |
| GO - Goldfinch                | S - Skylark             |
| GS - Great Spotted Woodpecker | SD - Stock Dove         |
| GT - Great Tit                | SF - Spotted Flycatcher |
| GW - Garden Warbler           | SI - Swift              |
| H - Grey Heron                | SL - Swallow            |
| J - Jay                       | ST - Song Thrush        |
| K - Kestrel                   | TC - Treecreeper        |
| LB - Lesser Black-backed Gull | WP - Woodpigeon         |
| LI - Linnet                   | WR - Wren               |
|                               | WW - Willow Warbler     |

- Legend**
- Order Limits
  - Transect 3
- Notable bird species**
- Bird of Conservation Concern - Red Listed
  - ⊕ Bird of Conservation Concern - Red Listed; Species of Principal Importance
  - Bird of Conservation Concern - Amber Listed
  - ⊕ Bird of Conservation Concern - Amber Listed; Species of Principal Importance
  - ⊙ Bird of Conservation Concern - Amber Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)
  - ⊙ Bird of Conservation Concern - Green Listed; Schedule 1 Wildlife and Countryside Act 1981 (as amended)



NG Investment No. ETX/01142					
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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

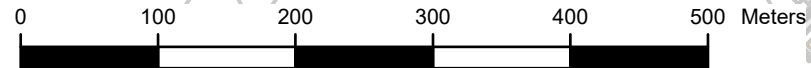


TITLE: **7.2.2 Hintlesham Woods Breeding Bird Survey – Priority Species**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_BreedingBirds\_Fig7\_2\_2b\_Rev01**

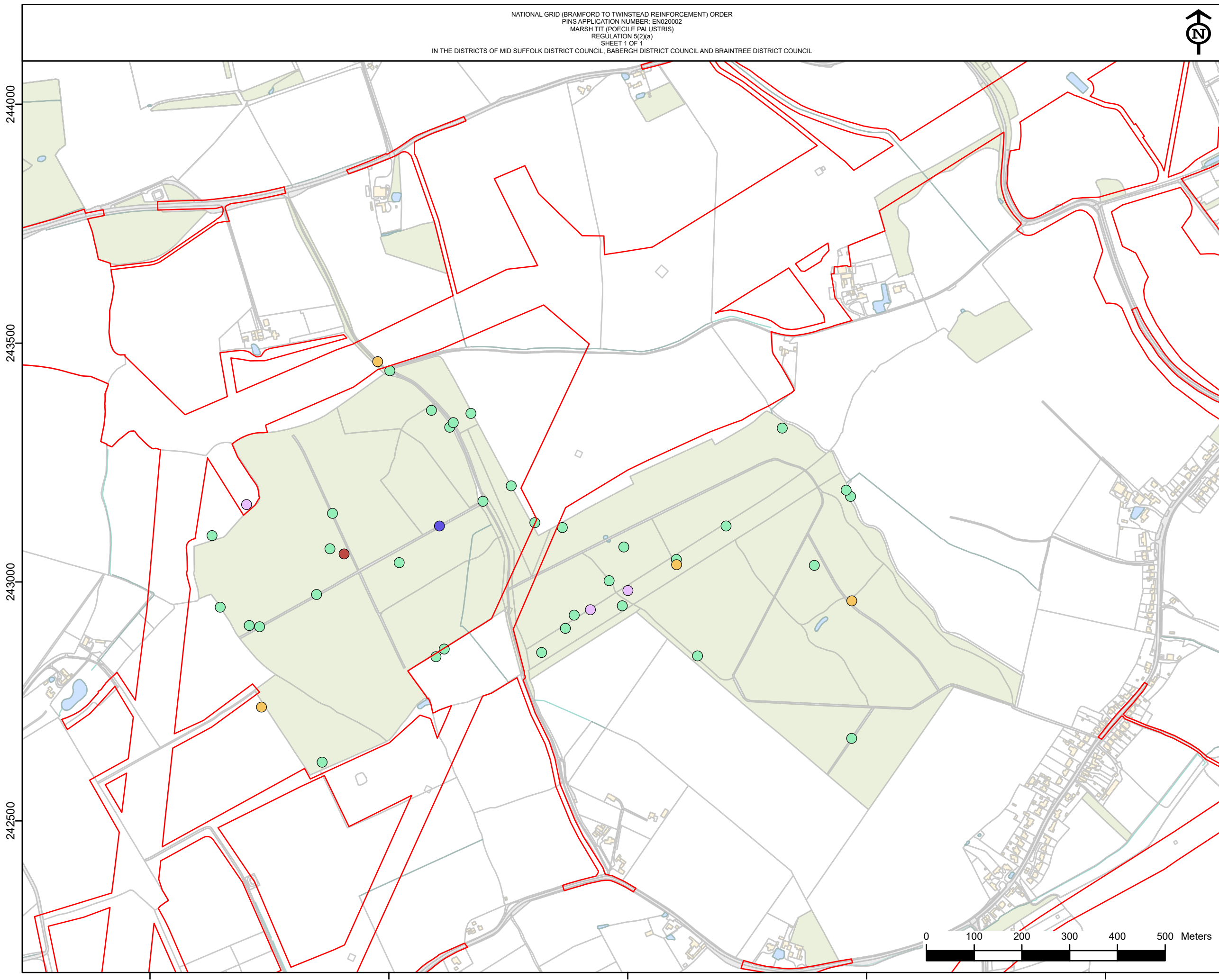
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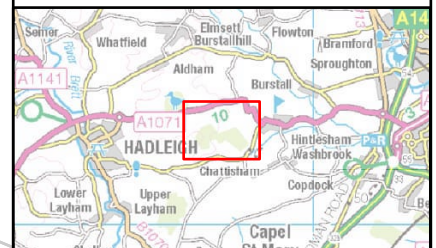




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- Order Limits
- Adult - unidentified sex
- Adult male
- Juvenile
- Pair together
- Parents and juvenile together



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A	02/2023	Rev A for DCO Application	PM	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

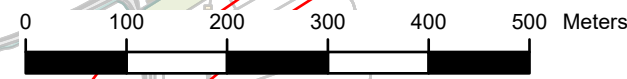


TITLE:  
**7.2.3 Marsh Tit  
 (Poecile palustris)**

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_BreedingBirds\_Fig7\_2\_3\_Rev01 **A3**

NG DRAWING No. BT-JAC-020631-500-0052	SHEET NO. <b>1</b>	NO. OF SHEETS <b>1</b>	ISSUE: <b>A</b>
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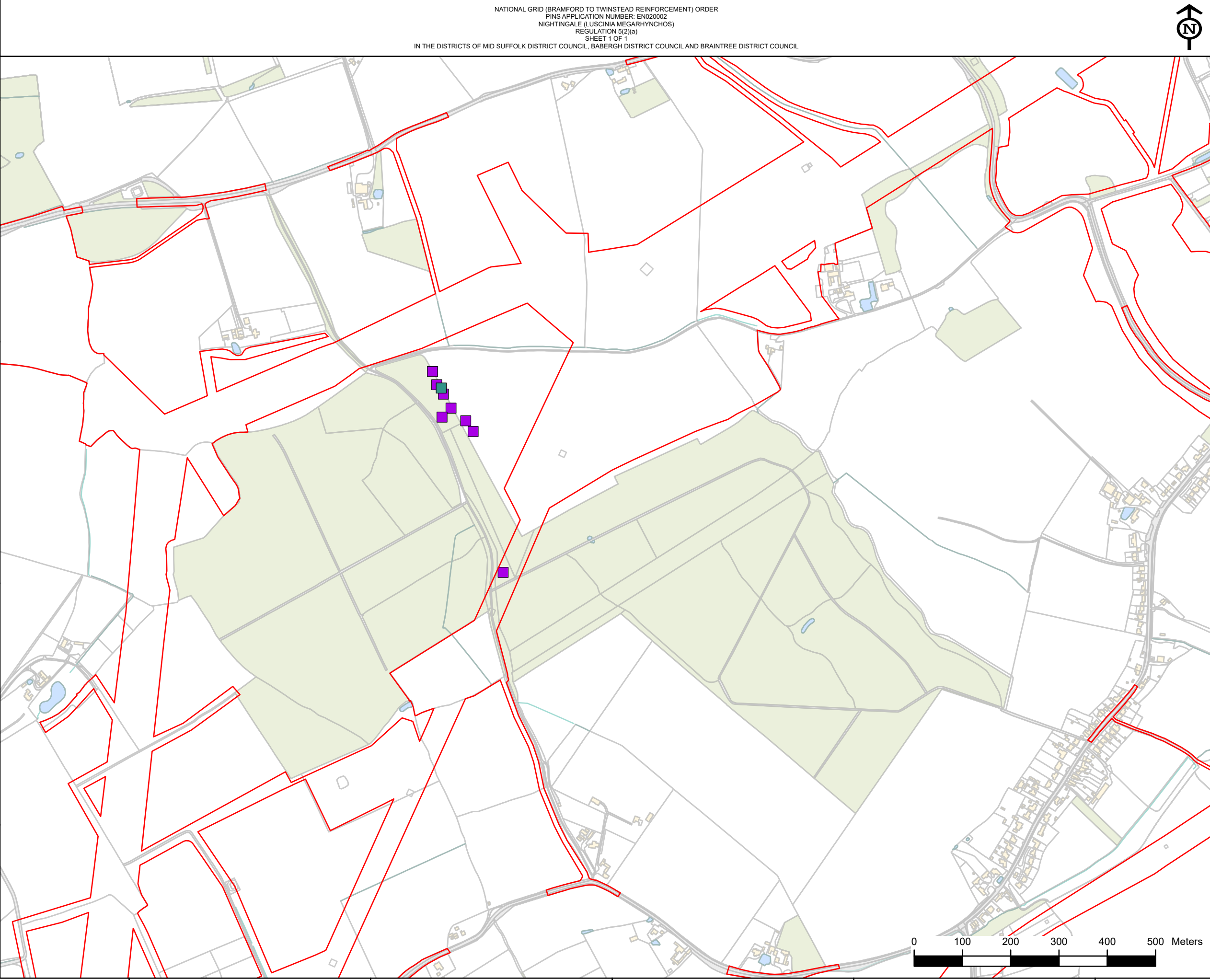




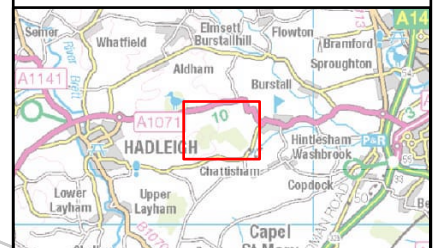


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244000  
243500  
243000  
242500



- Order Limits
- Adult - unidentified sex
- Adult male



NG Investment No. ETX/01142

A	02/2023	Rev A for DCO Application	PM	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

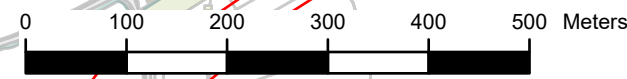


TITLE:  
**7.2.4 Nightingale**  
*(Luscinia megarhynchos)*

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_BreedingBirds\_Fig7\_2\_4\_Rev01

NG DRAWING No. BT-JAC-020631-500-0053	SHEET NO. <b>1</b>	NO. OF SHEETS <b>1</b>	ISSUE: <b>A</b>
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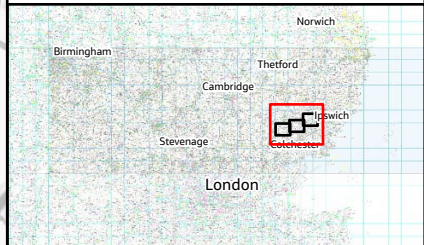
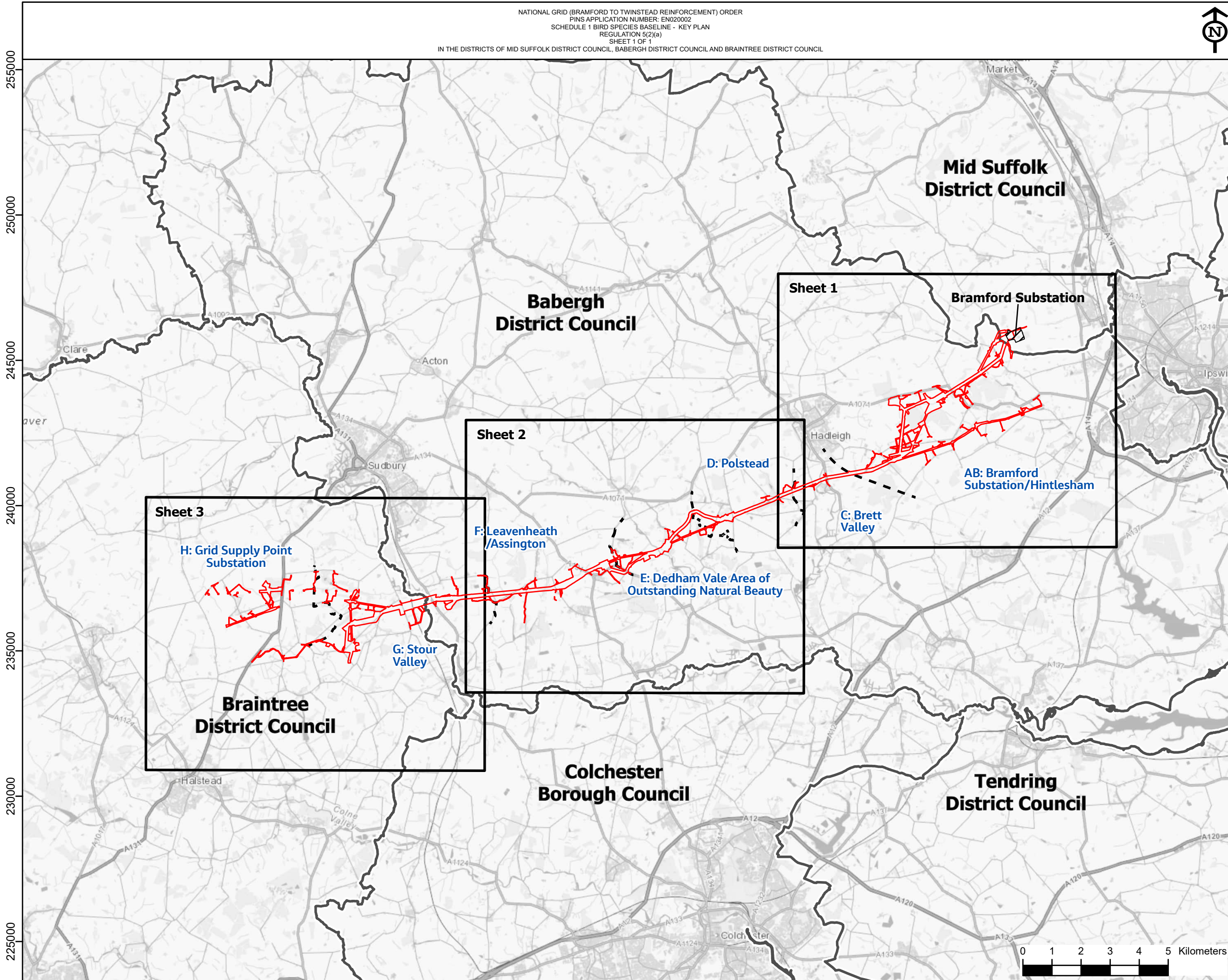




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Legend

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



NG Investment No. ETX/01142


A	02/2023	Rev A for DCO Application	GW	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

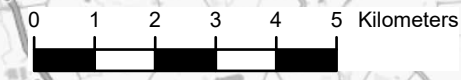


TITLE: Figure 7.2.5  
 Schedule 1 Bird Species Baseline - Key Plan

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_Figure\_7\_2\_5\_Rev1\_KeyPlan

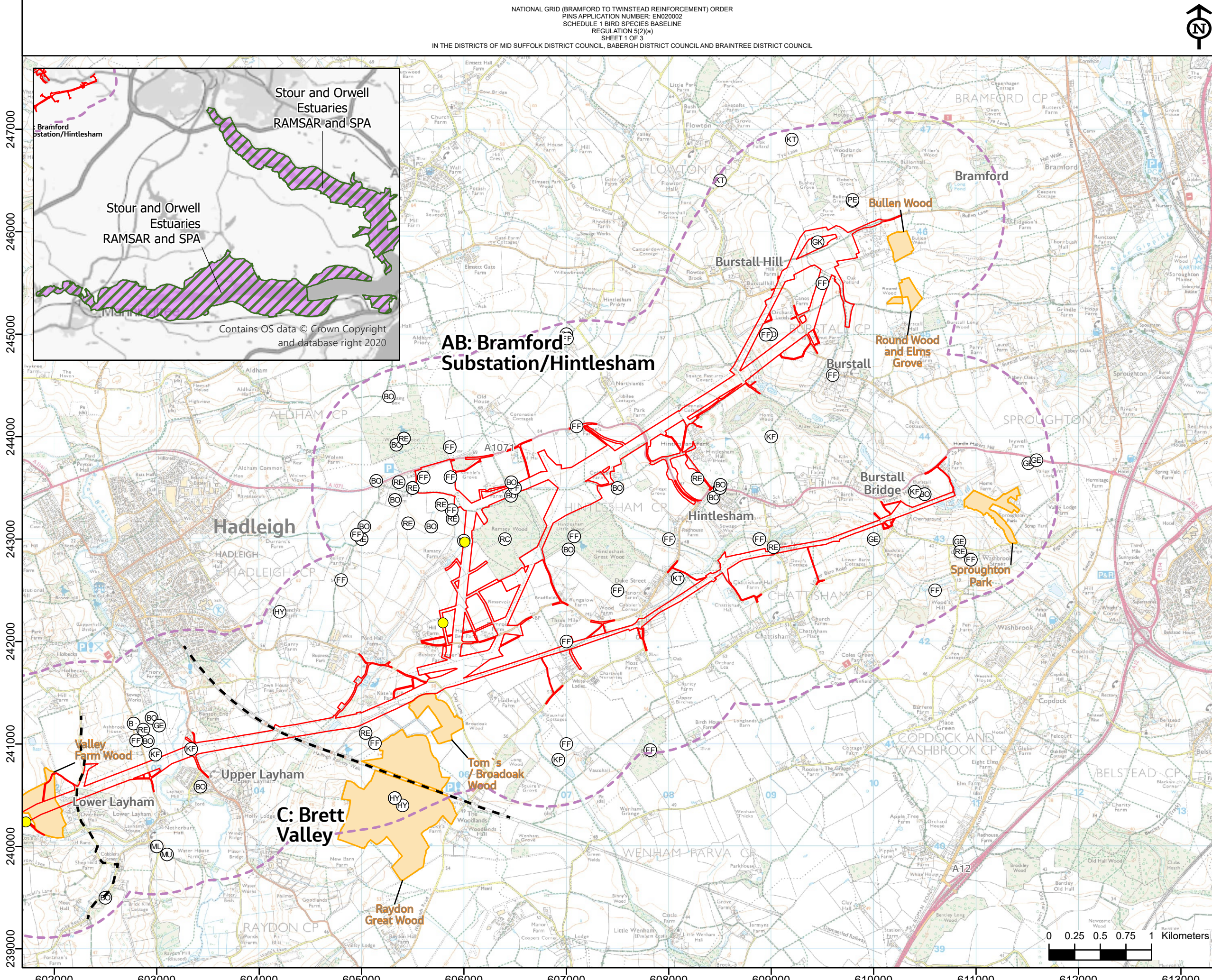
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- Section boundaries
  - ▭ Order Limits
  - Study area (1km)
  - 2022 desk study
  - AV Avocet
  - BO Barn Owl
  - BR Bearded Tit
  - BI Bittern
  - BM Brambling
  - CC Cetti's Warbler
  - FF Fieldfare
  - FC Firecrest
  - GE Green Sandpiper
  - GK Greenshank
  - HY Hobby
  - HZ Honey Buzzard
  - KF Kingfisher
  - LP Little Ringed Plover
  - MR Marsh Harrier
  - ML Mediterranean Gull
  - MR Merlin
  - OS Osprey
  - PE Peregrine
  - RC Red Crossbill
  - KT Red Kite
  - RE Redwing
  - SP Scaup
- Designated sites with breeding birds and raptors Cited**
- Essex Wildlife Trust (EWT) Nature Reserves
  - Local Wildlife Site (LoWS)
  - County Wildlife Site (CWS)
  - Site of Special Scientific Interest (SSSI)
  - Wetlands of International Importance (RAMSARs)
  - Special Protection Areas
- Incidental records**
- Juvenile barn owl sighting
  - Active barn owl roost
  - Owl box



NG Investment No. ETX/01142

A	02/2023	Rev A for DCO Application	GW	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

**nationalgrid**

TITLE: Figure 7.2.5  
 Schedule 1 Bird Species Baseline

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_Figure\_7\_2\_5a\_Rev1

NG DRAWING No. BT-JAC-020631-500-0057	SHEET NO. 1	NO. OF SHEETS 3	ISSUE: A
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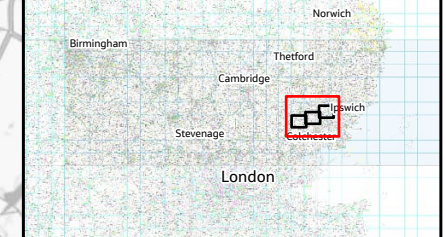
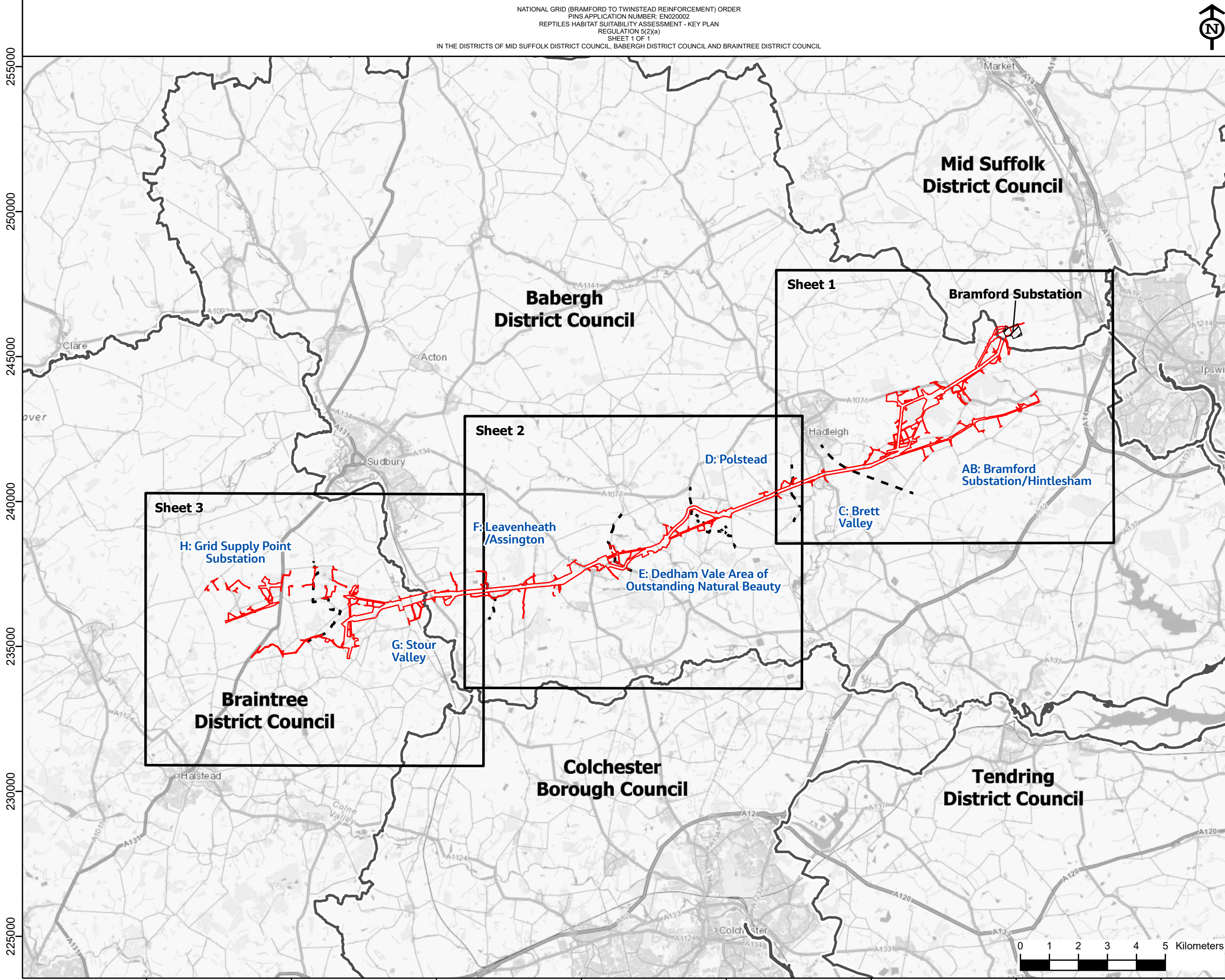






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- Legend**
- Section boundaries
  - Order Limits
  - Local authority districts
  - Existing Bramford Substation



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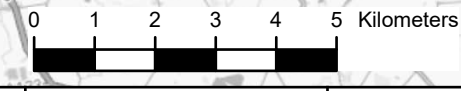


TITLE: Figure 7.2.6 Reptiles Habitat Suitability Assessment - Key Plan

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_ReptileHA\_Fig7\_2\_6\_Rev01\_KeyPlan

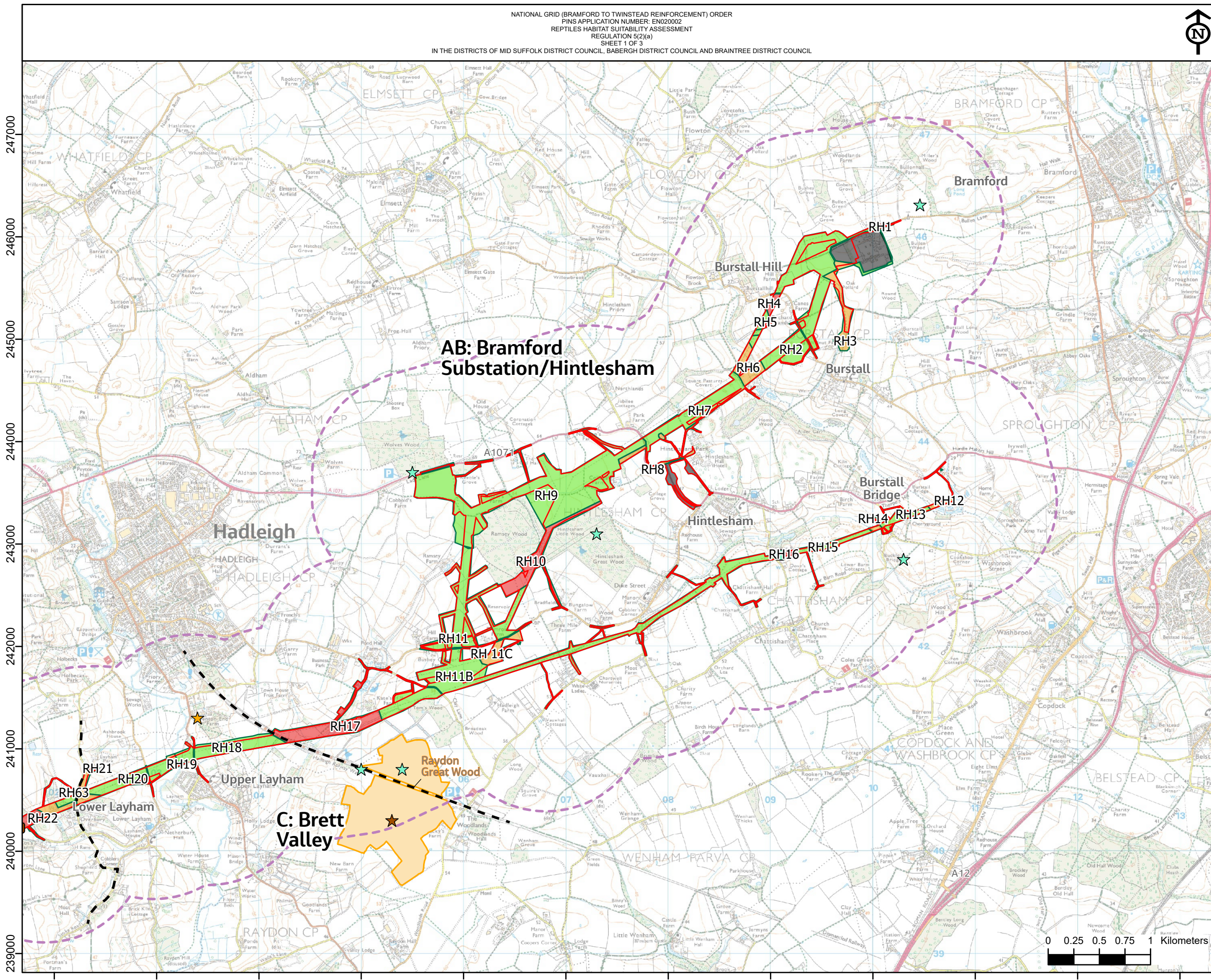
NG DRAWING No. BT-JAC-020631-500-0055	SHEET NO. 1	NO. OF SHEETS 1	ISSUE: A
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- Section boundaries
- Order Limits
- Study area (1km)
- Designated sites with reptiles cited
- County Wildlife Site (CWS)
- Desk study
- ★ Common lizard
- ★ Grass snake
- ★ Slow-worm
- 2013 Field Survey
- ⊕ Slow worm
- ⊕ Common lizard
- ⊕ Grass snake
- Incidental record of reptiles from 2021/22 field survey
- Common lizard
- Grass snake
- Slow-worm
- Habitat suitability
- High
- Moderate
- Low
- Negligible



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**nationalgrid**

TITLE: Figure 7.2.6 Reptiles Habitat Suitability Assessment

CIRCUIT / SITE : Bramford – Pelham & Bramford – Braitree – Bulls Lodge	GIS
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NG DRAWING No. BT-JAC-020631-500-0055	SHEET NO. 1
SCALE: 1:35000	NO. OF SHEETS 3
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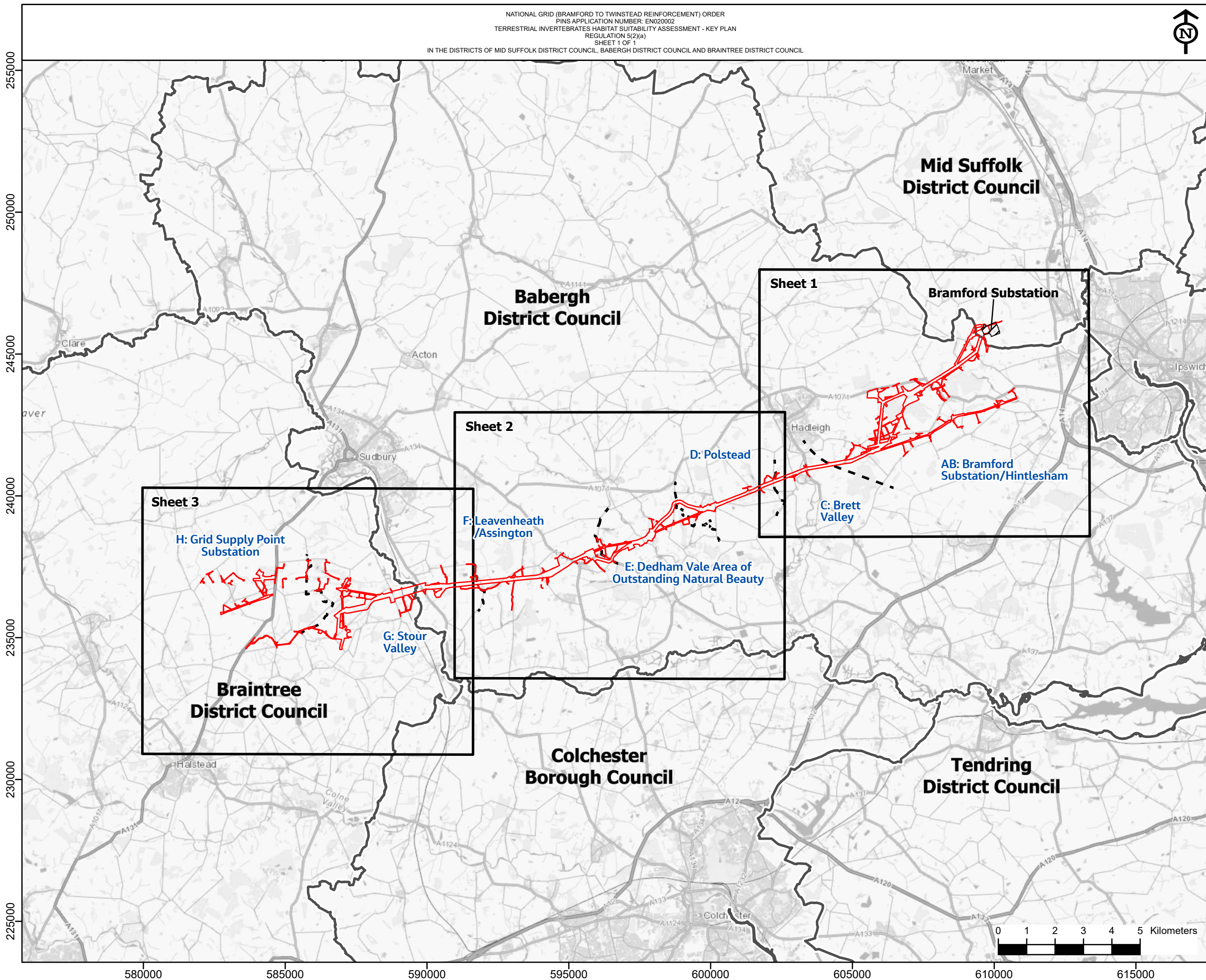




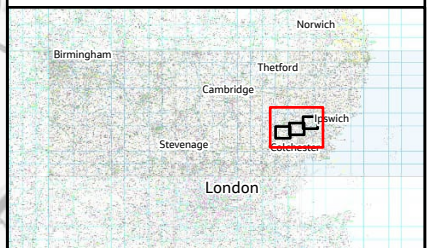








- Legend**
- - - Section boundaries
  - ▭ Order Limits
  - ▭ Local authority districts
  - ▨ Existing Bramford Substation



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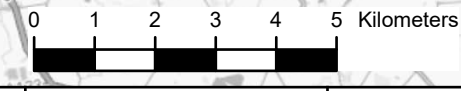


TITLE: Figure 7.2.7  
 Terrestrial Invertebrates Habitat Suitability Assessment - Key Plan

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

ORIGINATOR DRAWING NO. AAA\_BTT\_TerrestrialInvertebrates\_Fig7\_2\_7\_Rev01\_KeyPlan

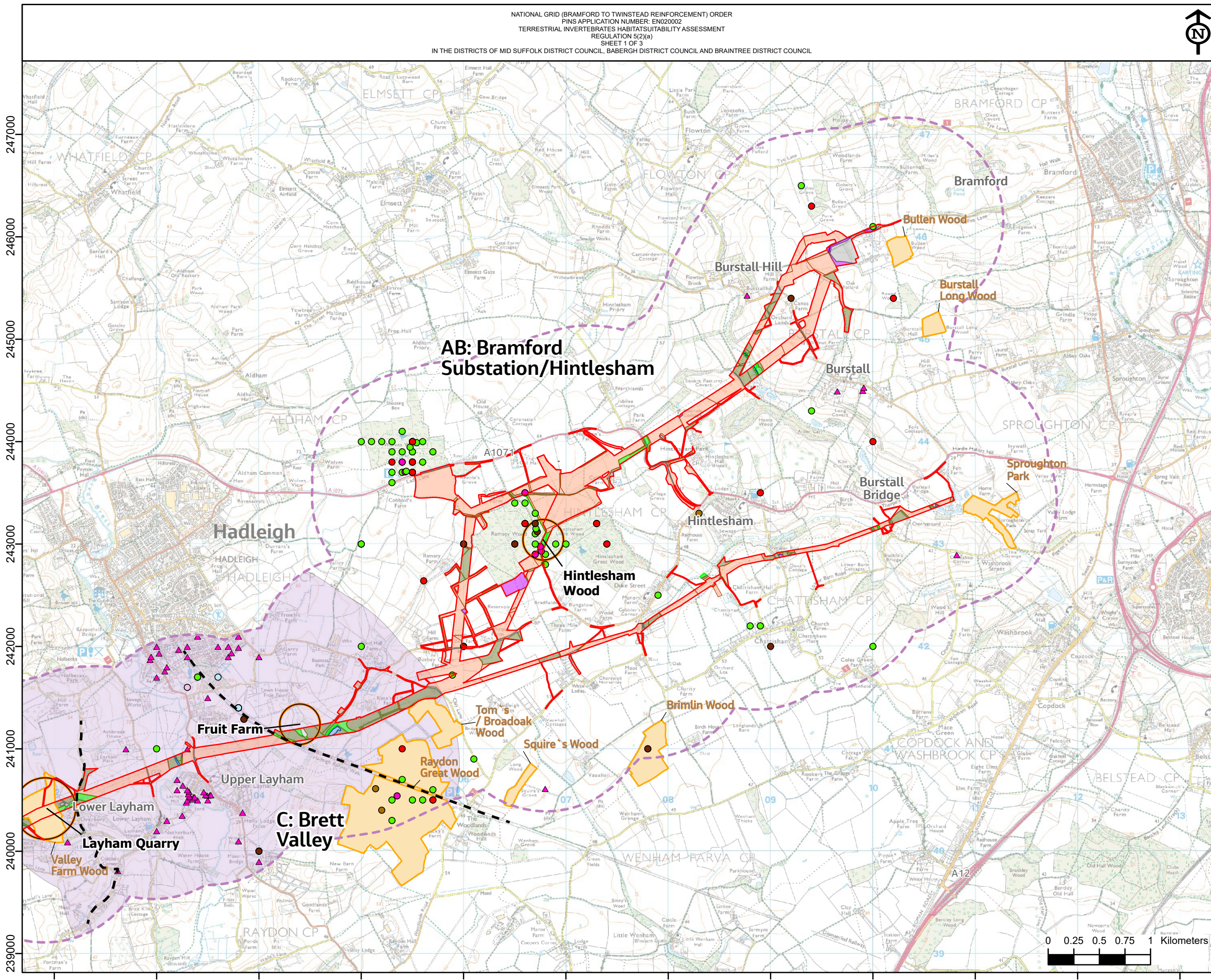
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- Section boundaries
- Order Limits
- Study area (1km)
- B-Lines Network
- ▭ Designated sites with invertebrate cited
- ▭ County Wildlife Site (CWS)
- ▭ Sites of Special Scientific Interest (SSSI)
- 2022 desk study
- Ant
- Bee
- Beetle
- Butterfly
- Caddisfly
- Centipede
- Dragonfly
- Fly
- Mollusc
- Moth
- Wasp
- ▲ Stag Beetle
- Purple emperor butterfly
- White-letter hairstreak butterfly
- 2013 field survey locations
- Habitats
- Woodland
- Scrub and bracken
- Hedgerows
- Grassland
- Rivers and lakes
- Arable farmland
- Urban



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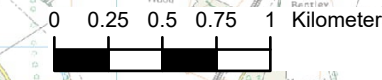
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TITLE: Figure 7.2.7  
 Terrestrial Invertebrates Habitat Suitability Assessment

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

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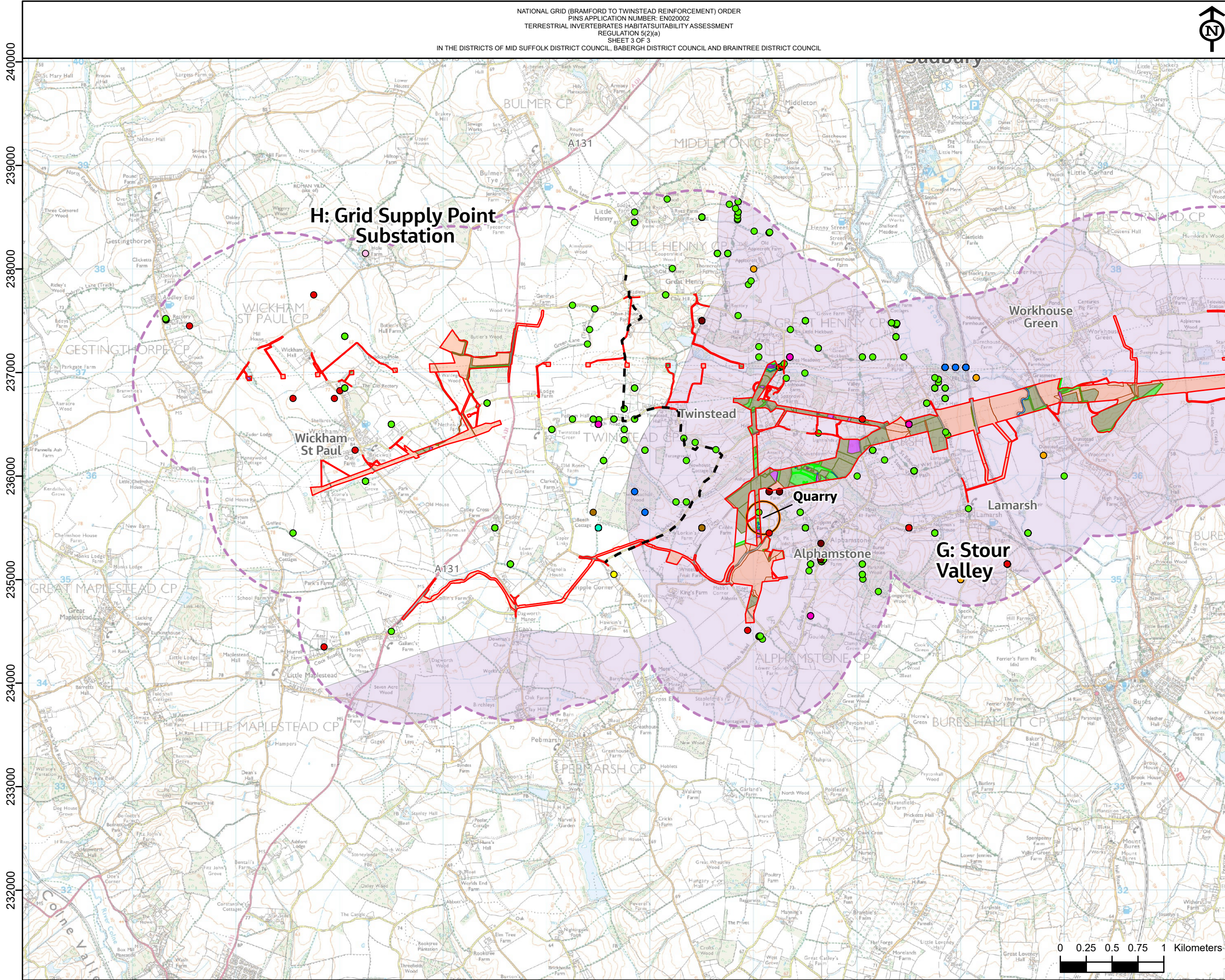






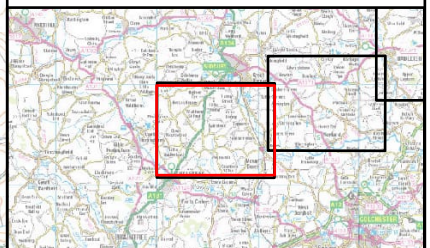


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- Section boundaries
- Order Limits
- Study area (1km)
- B-Lines Network
- ▭ Designated sites with invertebrate cited
- ▭ County Wildlife Site (CWS)
- ▭ Sites of Special Scientific Interest (SSSI)
- 2022 desk study
- Ant
- Bee
- Beetle
- Butterfly
- Caddisfly
- Centipede
- Dragonfly
- Fly
- Mollusc
- Moth
- Wasp
- Stag Beetle
- Purple emperor butterfly
- White-letter hairstreak butterfly
- 2013 field survey locations

- Habitats**
- ▭ Woodland
  - ▭ Scrub and bracken
  - ▭ Hedgerows
  - ▭ Grassland
  - ▭ Rivers and lakes
  - ▭ Arable farmland
  - ▭ Urban



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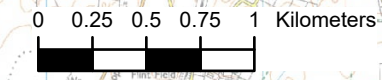
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 Terrestrial Invertebrates Habitat  
 Suitability Assessment**

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

ORIGINATOR DRAWING NO.  
 AAA\_BTT\_TerrestrialInvertebrates\_Fig7.2.7\_Rev01

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SHEET NO. **3** NO. OF SHEETS **3** ISSUE: **A**



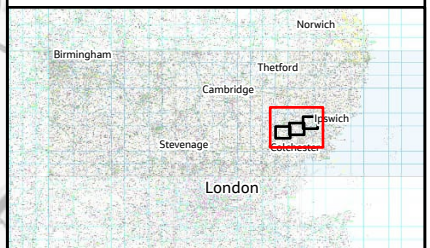
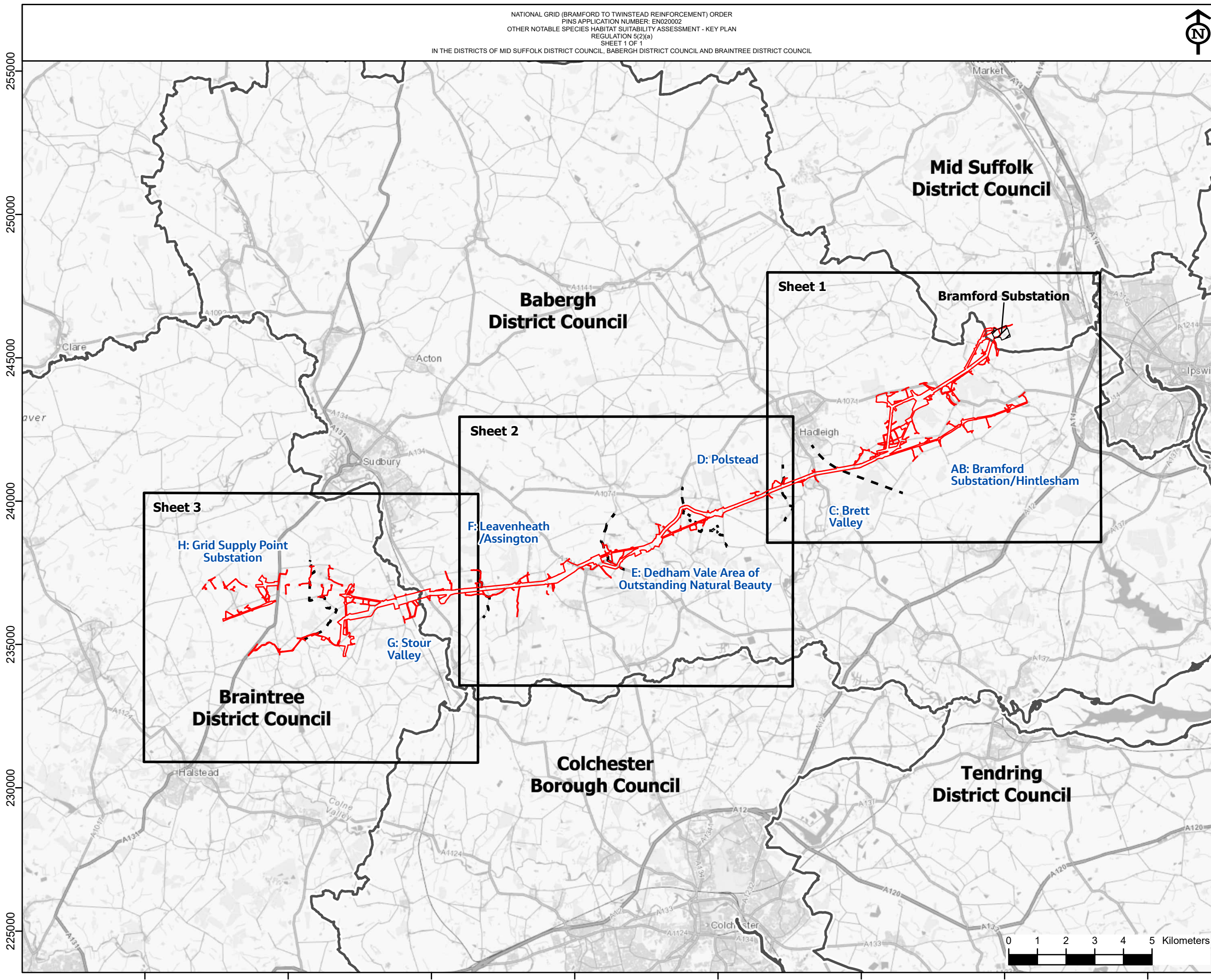




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Legend

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



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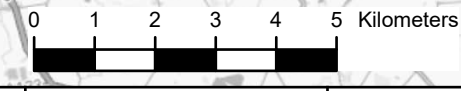


TITLE: Figure 7.2.8 Other Notable Species Habitat Suitability Assessment - Key Plan

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

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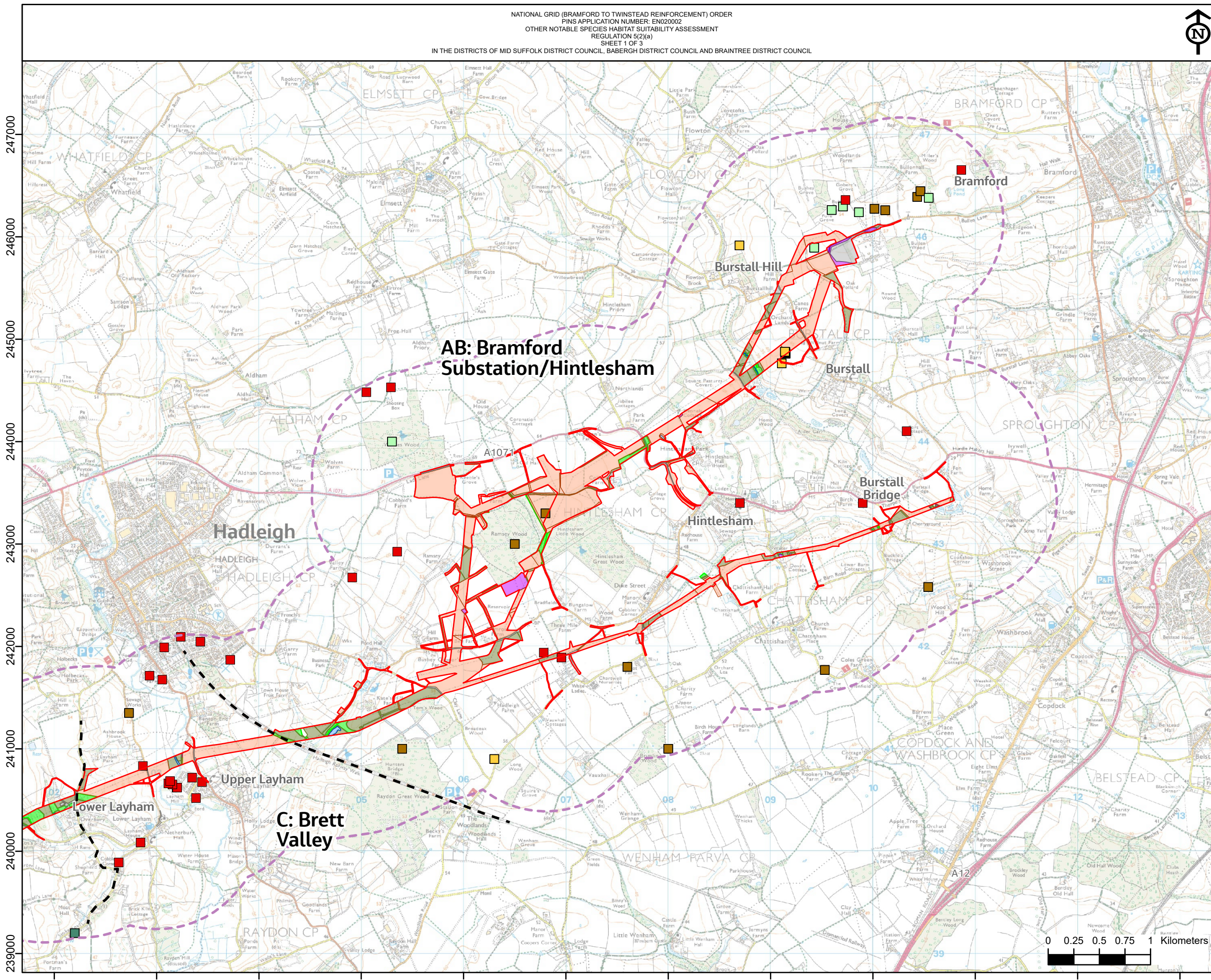
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- Section boundaries
- Order Limits
- Study area (1km)
- Desk study**
- Brown hare
- Common toad
- Harvest mouse
- Polecat
- Hedgehog
- Incidental records**
- Brown hare
- Polecat
- Habitats**
- Woodland
- Scrub and bracken
- Hedgerows
- Grassland
- Rivers and lakes
- Arable farmland
- Urban



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**nationalgrid**

TITLE: Figure 7.2.8  
 Other Notable Species  
 Habitat Suitability Assessment

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

ORIGINATOR DRAWING NO. GIS

AAA\_BTT\_NotableSpecies\_Fig7\_2\_8\_Rev01 A3

NG DRAWING No. SHEET NO. NO. OF SHEETS ISSUE:  
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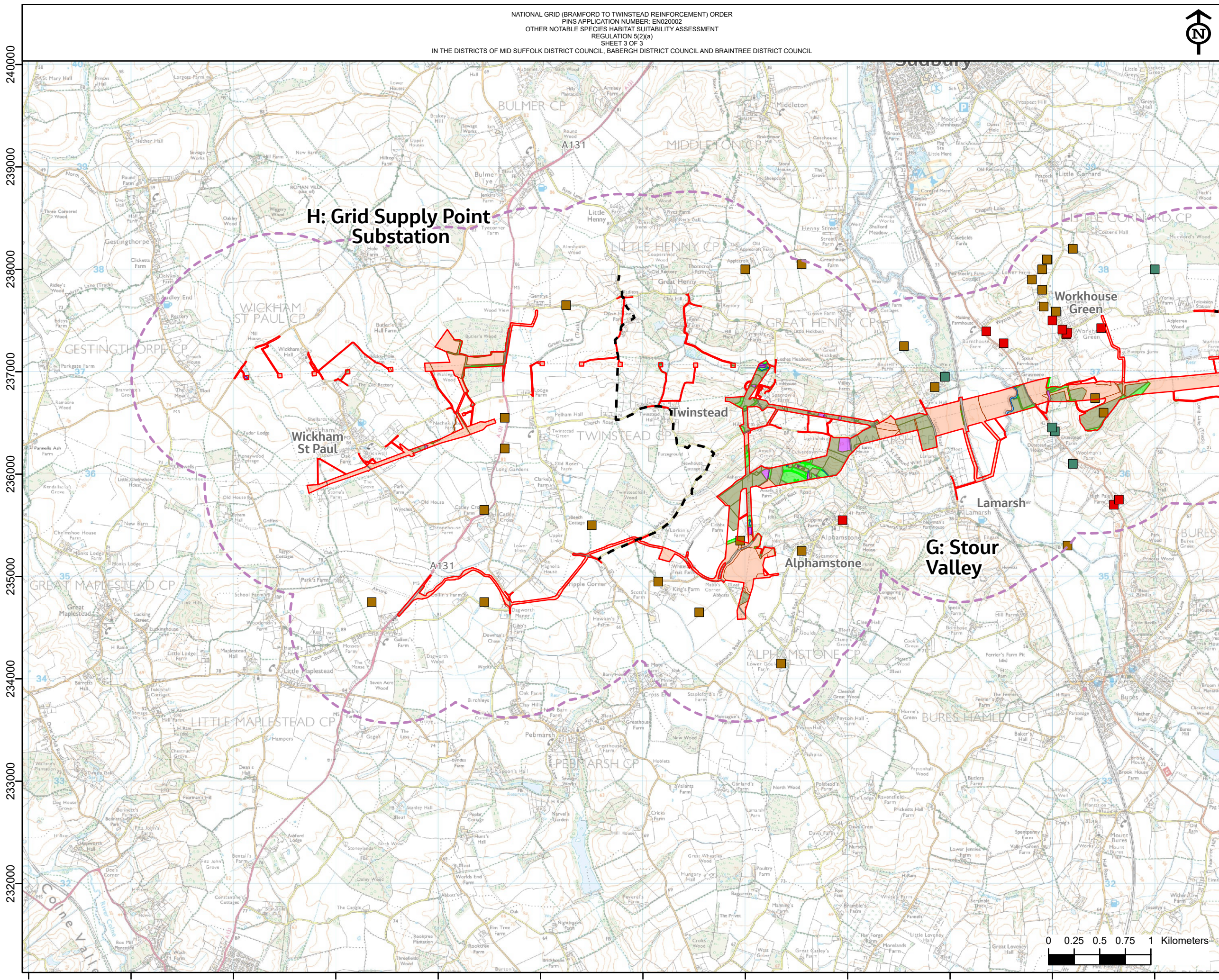




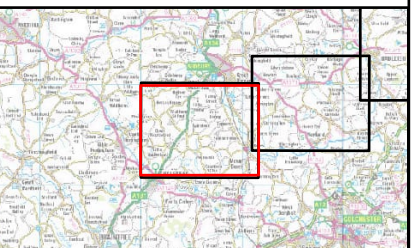




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- Section boundaries
- Order Limits
- Study area (1km)
- Desk study**
- Brown hare
- Common toad
- Harvest mouse
- Polecat
- Hedgehog
- Incidental records**
- Brown hare
- Polecat
- Habitats**
- Woodland
- Scrub and bracken
- Hedgerows
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- Urban



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TITLE: Figure 7.2.8  
 Other Notable Species  
 Habitat Suitability Assessment

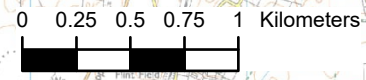
CIRCUIT / SITE :  
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 – Braitree – Bulls Lodge

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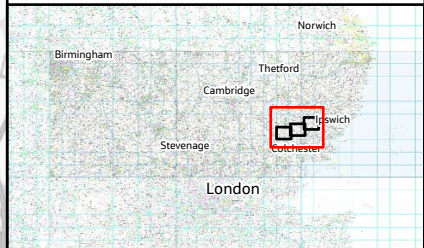
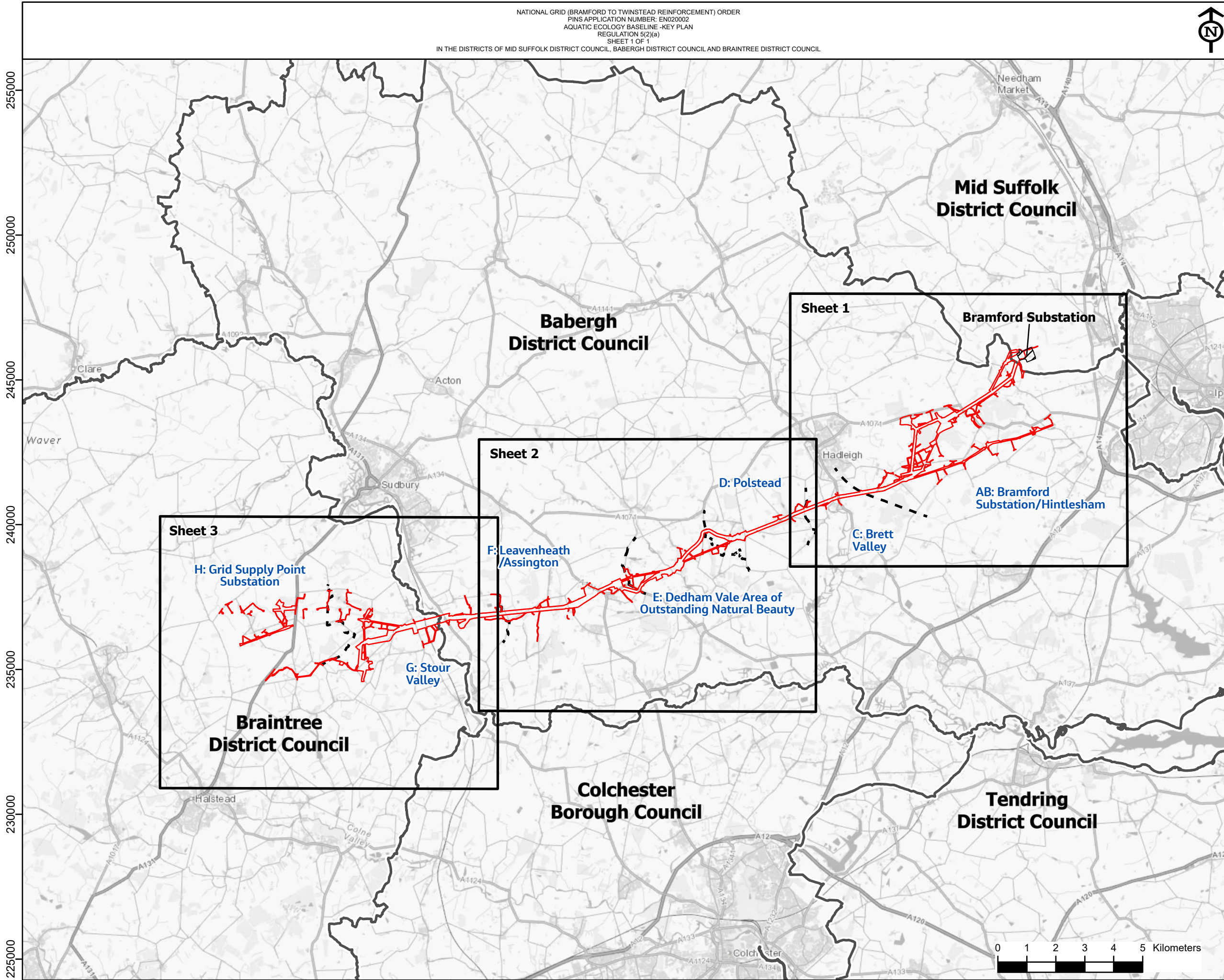




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Legend

- Section boundaries
- Order Limits
- ▭ Local authority districts
- ▨ Existing Bramford Substation



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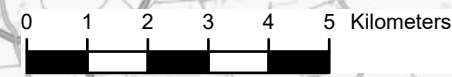


TITLE: Figure 7.3.1  
 Aquatic Ecology Baseline -  
 Key Plan

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

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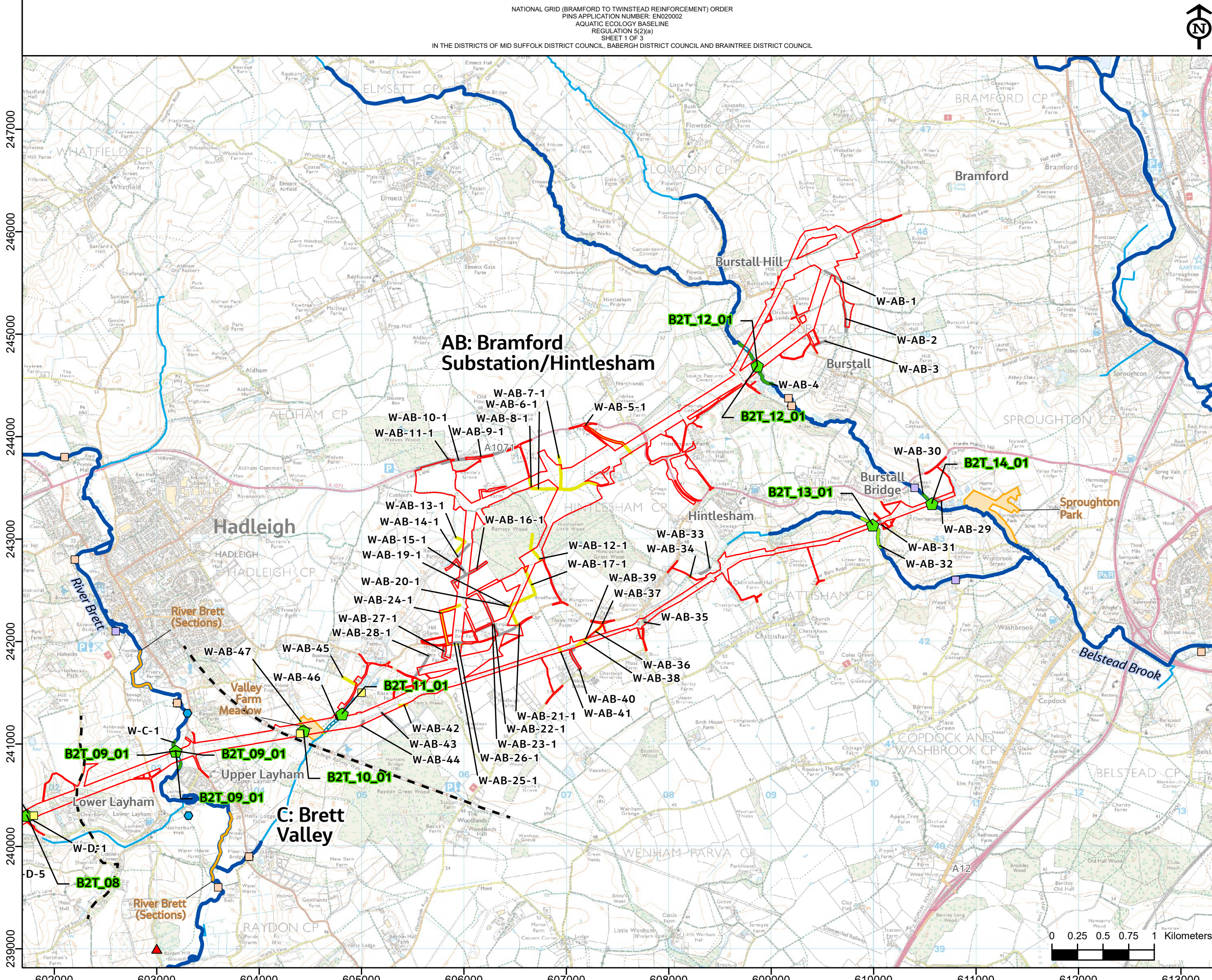
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- Section boundaries
- Order Limits
- Main rivers
- Ordinary watercourses
- Watercourse reach
- Modular River Physical (MoRPh) survey locations
- Modular River Physical (MoRPh) survey locations number
- w-g-2 Watercourse crossing number
- Watercourse habitat sensitivity for aquatic ecological features
- Screened out by desk study
- Dry
- Low
- Moderate
- Designated sites supporting aquatic habitats and features
- County Wildlife Site (CWS)
- Desk study data
- Sampling and survey points
- Environment Agency fisheries sampling point
- Environment Agency invertebrate sampling point
- Environment Agency macrophyte sampling point
- Aquatic invertebrate survey points 2013
- Protected and notable species
- Fish
- Brook lamprey
- Brown/sea trout
- Bullhead
- European eel
- Spined loach
- Invertebrates
- Water beetle
- Scarce chaser

Note: MoRPh5 survey location B2T\_08 was not surveyed due to land access restrictions, see Section 2.5 in Appendix 7.3 Aquatic Ecology Baseline Report (application document 6.3.7.3) for further details on survey limitations



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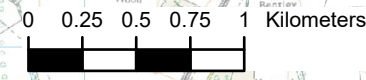
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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

**nationalgrid**

TITLE: Figure 7.3.1  
 Aquatic Ecology Baseline

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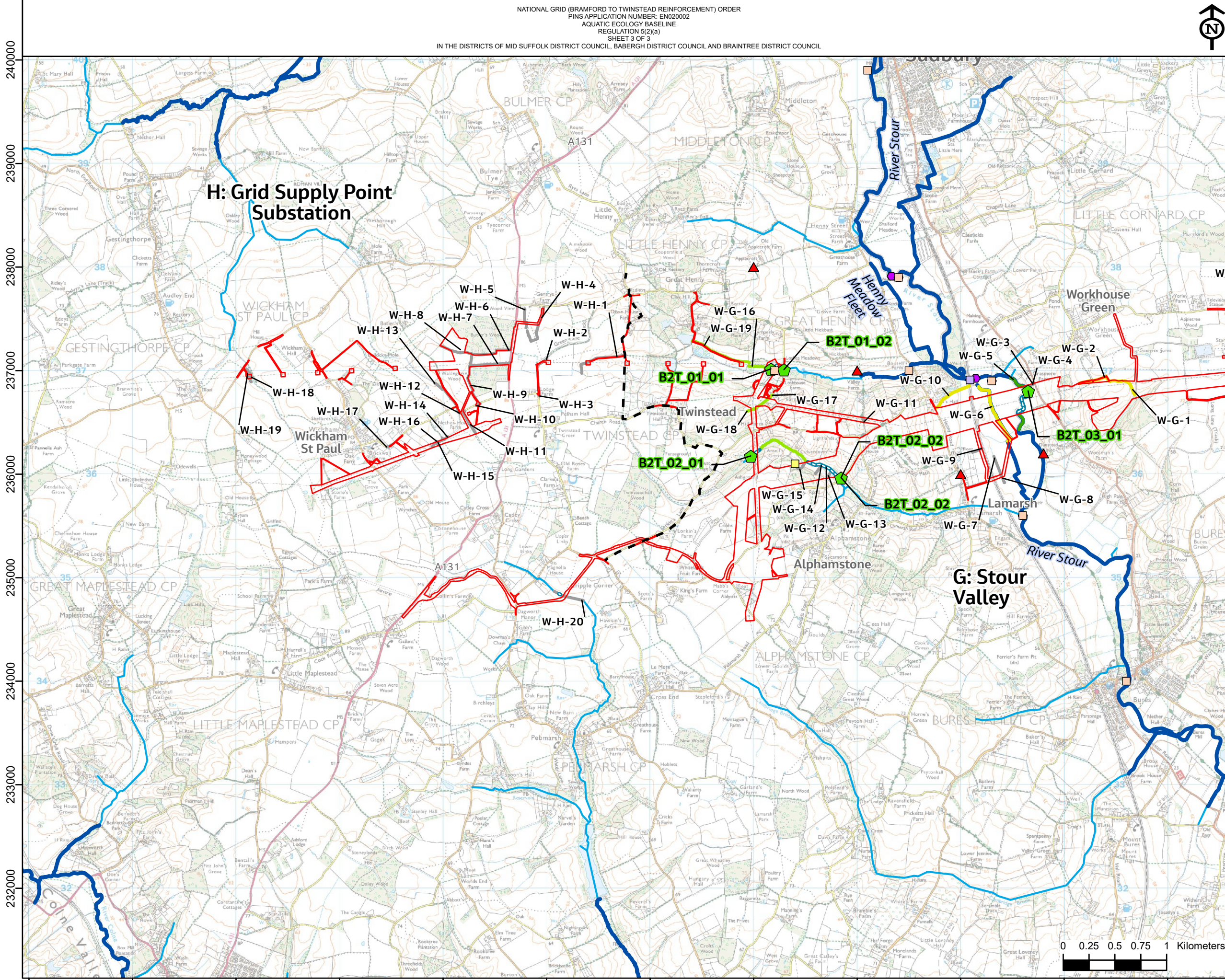






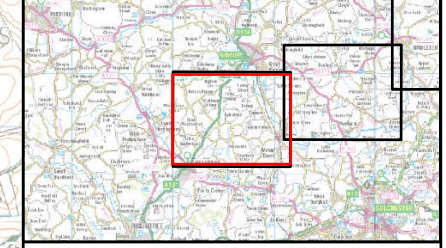


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- Section boundaries
- ▭ Order Limits
- ▬ Main rivers
- ▬ Ordinary watercourses
- ▬ Watercourse reach
- ▭ Modular River Physical (MoRPh) survey locations
- ▭ Modular River Physical (MoRPh) survey locations number
- w-g-2 Watercourse crossing number
- Watercourse habitat sensitivity for aquatic ecological features**
- ▬ Screened out by desk study
- ▬ Dry
- ▬ Low
- ▬ Moderate
- Designated sites supporting aquatic habitats and features**
- ▭ County Wildlife Site (CWS)
- Desk study data**
- Sampling and survey points**
- ▭ Environment Agency fisheries sampling point
- ▭ Environment Agency invertebrate sampling point
- ▭ Environment Agency macrophyte sampling point
- ▭ Aquatic invertebrate survey points 2013
- Protected and notable species**
- Fish**
- ▭ Brook lamprey
- ▭ Brown/sea trout
- ▭ Bullhead
- ▭ European eel
- ▭ Spined loach
- ▭ Invertebrates
- ▭ Water beetle
- ▭ Scarce chaser

Note: MoRPh5 survey location B2T\_08 was not surveyed due to land access restrictions, see Section 2.5 in Appendix 7.3 Aquatic Ecology Baseline Report (application document 6.3.7.3) for further details on survey limitations



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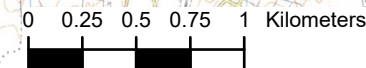
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TITLE: Figure 7.3.1  
 Aquatic Ecology Baseline

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

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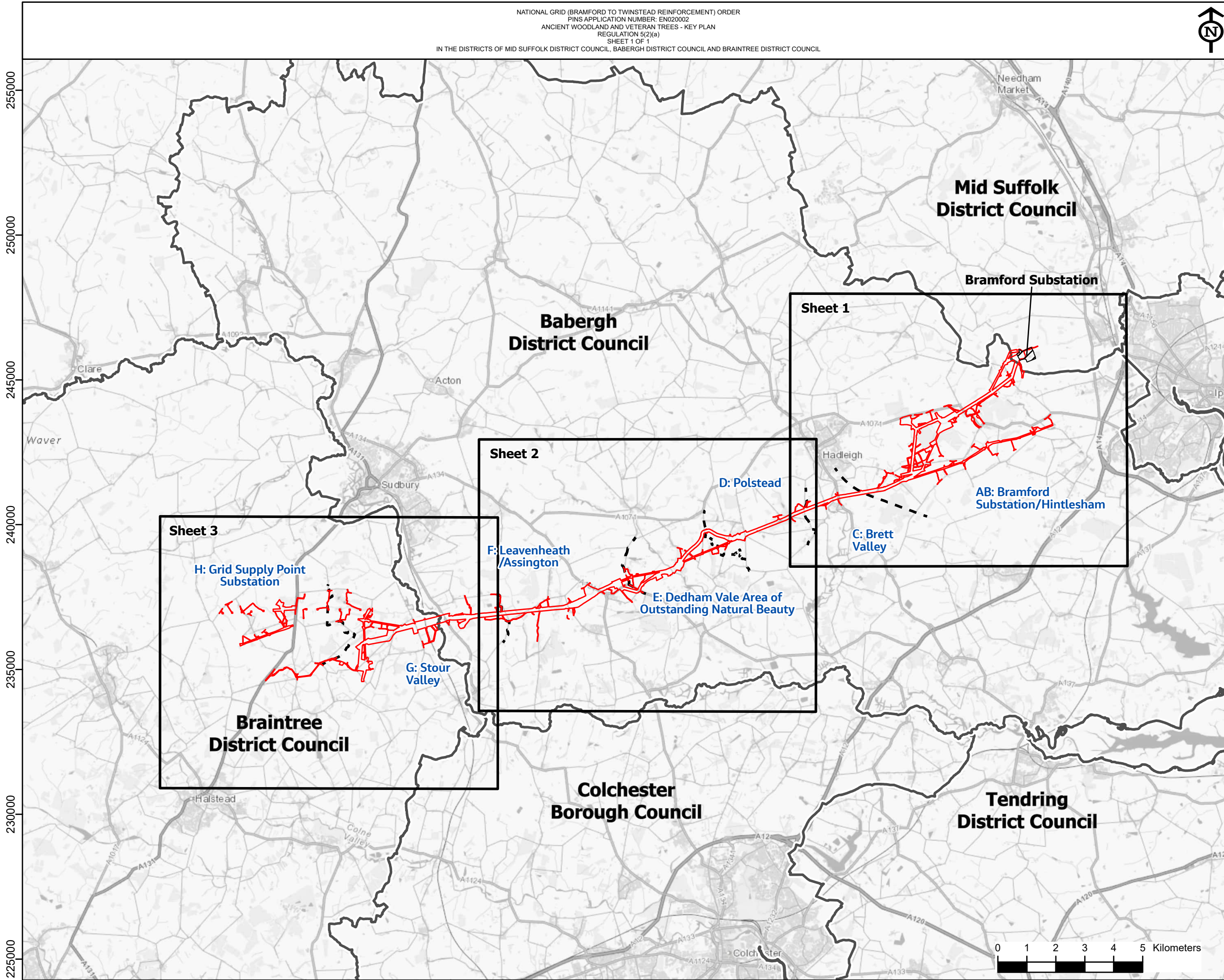




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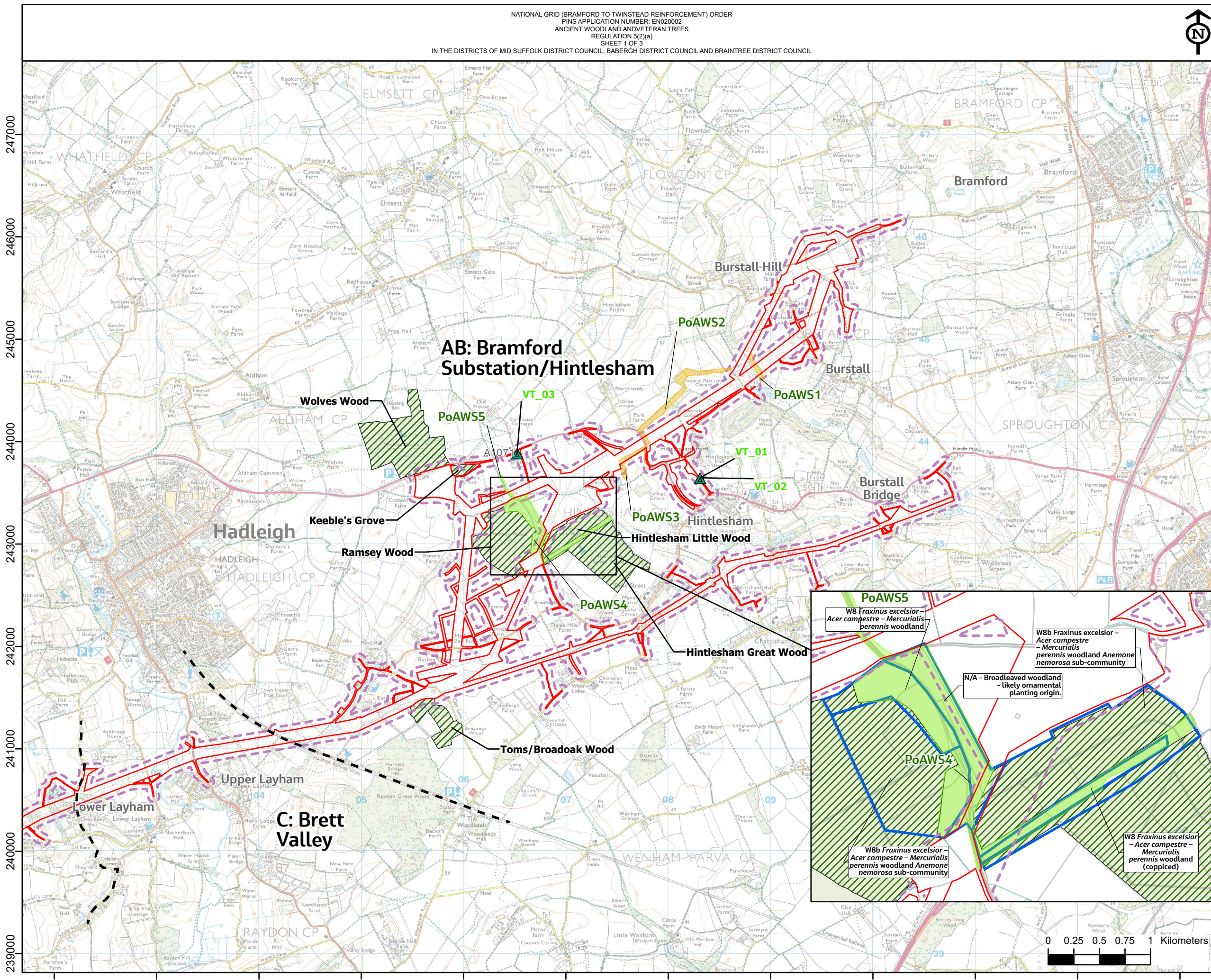
- - - Section boundaries
- Order Limits
- Local authority districts
- Existing Bramford Substation



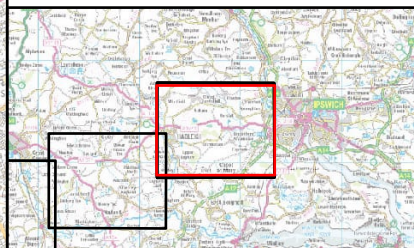




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- Section boundaries
- Order Limits
- Study area (50m)
- Potential Ancient Woodland (PoAWS)
  - Likely to be Ancient Woodland
  - Not likely to be Ancient Woodland following survey
- National Vegetation Classification survey locations
- Veteran and Ancient Trees
  - Veteran Trees
  - Ancient Tree Inventory
  - Ancient Woodland Inventory Site



**PoAWS5**

WB *Fraxinus excelsior* - *Acer campestre* - *Mercurialis perennis* woodland

W8b *Fraxinus excelsior* - *Acer campestre* - *Mercurialis perennis* woodland *Anemone nemorosa* sub-community

N/A - Broadleaved woodland - likely ornamental planting origin.

**PoAWS4**

W8b *Fraxinus excelsior* - *Acer campestre* - *Mercurialis perennis* woodland *Anemone nemorosa* sub-community

W8b *Fraxinus excelsior* - *Acer campestre* - *Mercurialis perennis* woodland (coppiced)

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**nationalgrid**

TITLE: Figure 7.4.1  
Ancient Woodland and Veteran Trees

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

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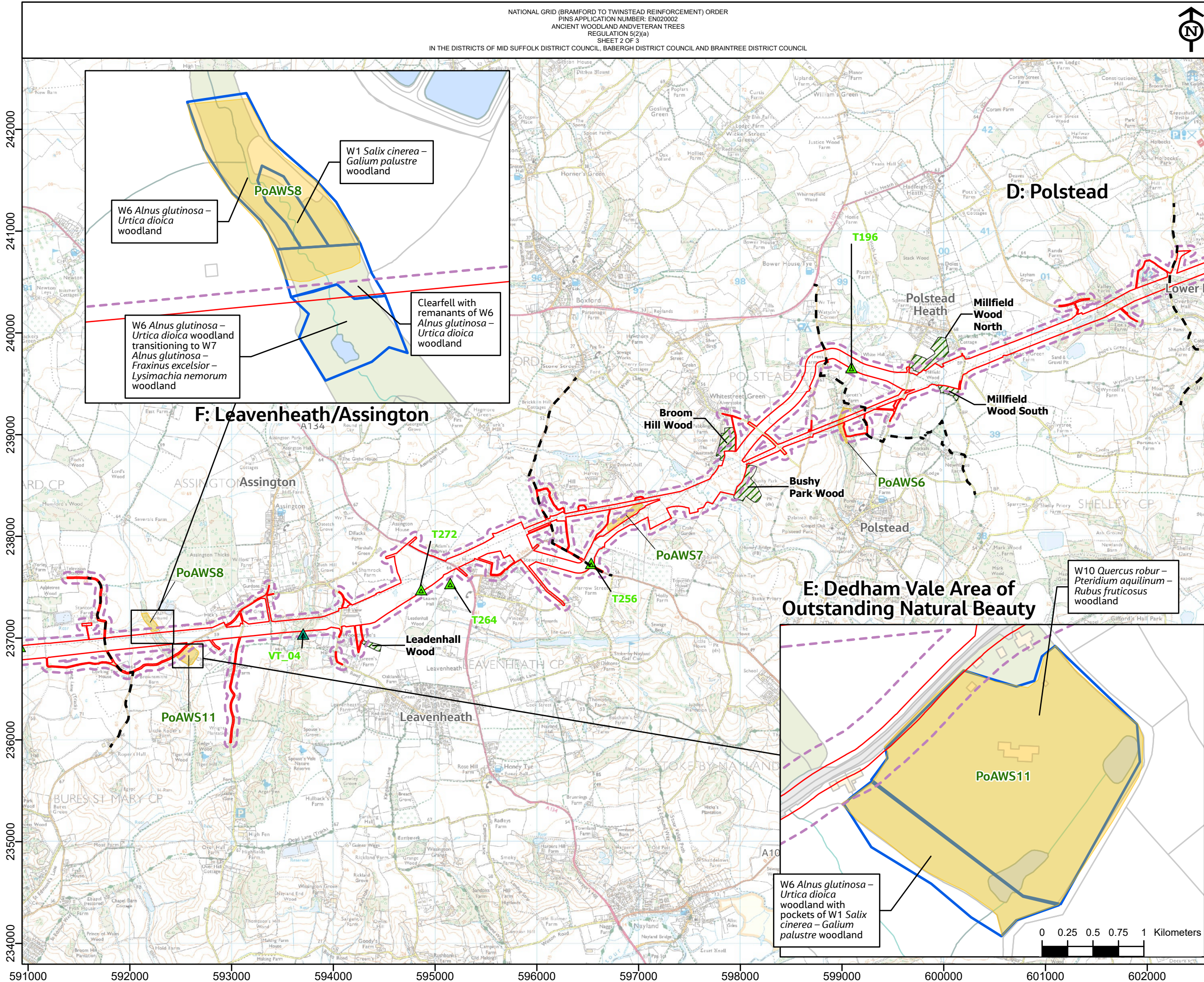
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- Section boundaries
- Order Limits
- - - Study area (50m)
- Potential Ancient Woodland (PoAWS)**
- Light Green: Likely to be Ancient Woodland
- Yellow: Not likely to be Ancient Woodland following survey
- Blue Outline: National Vegetation Classification survey locations
- Veteran and Ancient Trees**
- Green Triangle: Veteran Trees
- Green Triangle with Center: Ancient Tree Inventory
- Green Triangle with Center and Circle: Ancient Woodland Inventory Site



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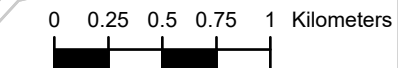
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TITLE: Figure 7.4.1  
Ancient Woodland and Veteran Trees

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

ORIGINATOR DRAWING NO. AAA\_BTT\_AncientWoodland\_Fig\_7.4\_1b\_Rev02

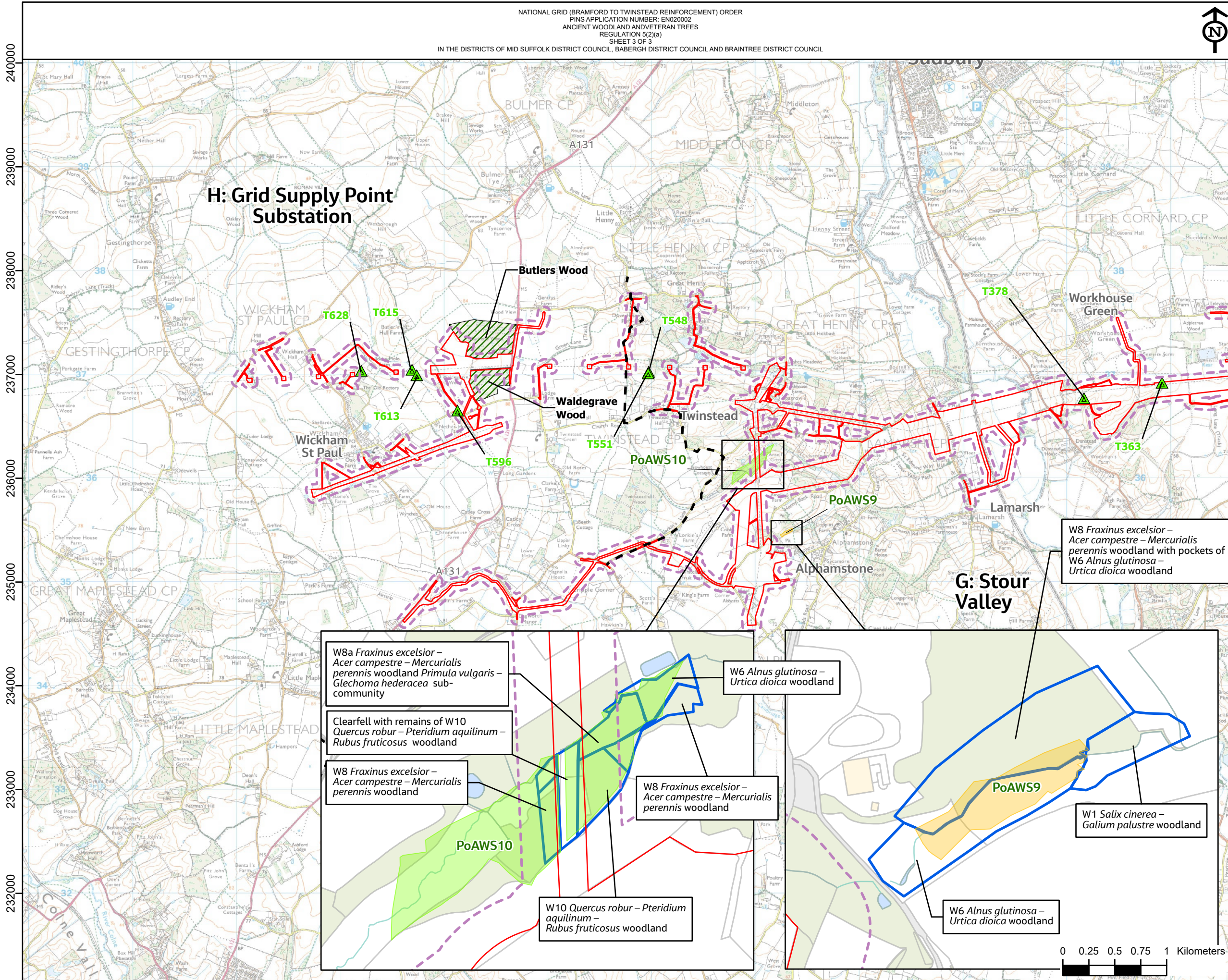
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- Section boundaries
- Order Limits
- Study area (50m)
- Potential Ancient Woodland (PoAWS)
  - Likely to be Ancient Woodland
  - Not likely to be Ancient Woodland following survey
- National Vegetation Classification survey locations
- Veteran and Ancient Trees
  - Veteran Trees
  - Ancient Tree Inventory
  - Ancient Woodland Inventory Site

W8 *Fraxinus excelsior* – *Acer campestre* – *Mercurialis perennis* woodland with pockets of W6 *Alnus glutinosa* – *Urtica dioica* woodland

W8a *Fraxinus excelsior* – *Acer campestre* – *Mercurialis perennis* woodland *Primula vulgaris* – *Glechoma hederacea* sub-community

Clearfell with remains of W10 *Quercus robur* – *Pteridium aquilinum* – *Rubus fruticosus* woodland

W8 *Fraxinus excelsior* – *Acer campestre* – *Mercurialis perennis* woodland

W8 *Fraxinus excelsior* – *Acer campestre* – *Mercurialis perennis* woodland

W10 *Quercus robur* – *Pteridium aquilinum* – *Rubus fruticosus* woodland

W6 *Alnus glutinosa* – *Urtica dioica* woodland

W6 *Alnus glutinosa* – *Urtica dioica* woodland

W1 *Salix cinerea* – *Galium palustre* woodland



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A	03/2023	Rev A for DCO Application	ML	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

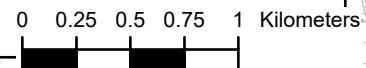
**nationalgrid**

TITLE: Figure 7.4.1  
Ancient Woodland and Veteran Trees

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

ORIGINATOR DRAWING NO. AAA\_BTT\_AncientWoodland\_Fig7\_4\_1c\_Rev02

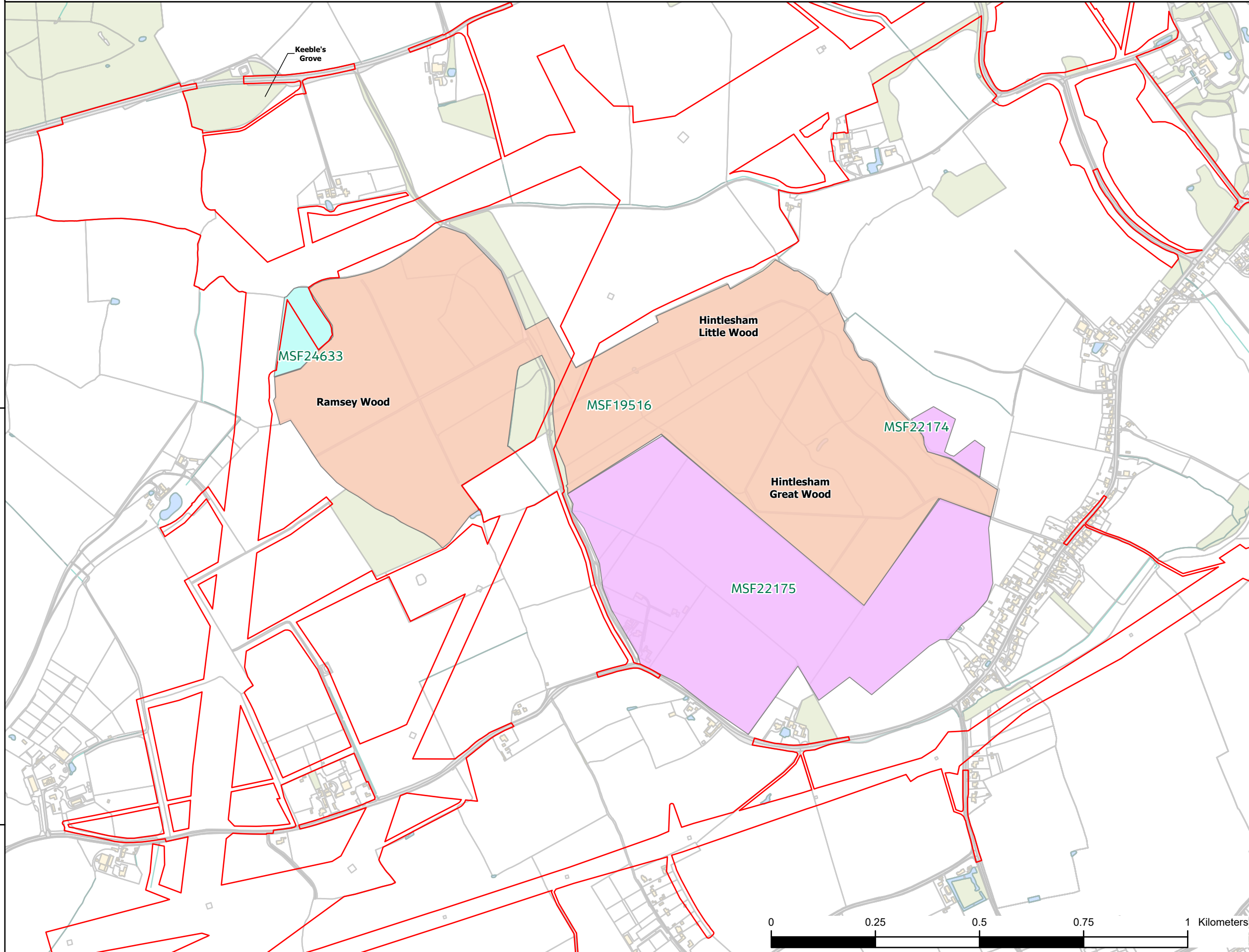
NG DRAWING No. BT-JAC-020631-500-0012	SHEET NO. 3	NO. OF SHEETS 3	ISSUE: A
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- Section boundaries
- Order Limits
- Suffolk historic environment record non designated heritage assets**
- Ancient Wood, Hadleigh (MSF24633)
- Hintlesham (Great) Wood (MSF22174 and MSF22175)
- Ramsey Wood; Hintlesham (Great & Little) Wood (MSF19516)
- Suffolk Council historic environment record non-designated heritage asset labels

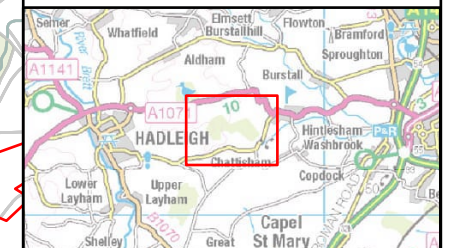
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A	03/2023	Rev A for DCO Application	ML	LG	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**



TITLE: **Figure 7.4.2  
Hintlesham Woods -  
Non-designated Archaeological Assets**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_AncientWoodland\_Fig7\_4\_2\_Rev02** **A3**

NG DRAWING No. BT-JAC-020631-500-0118	SHEET NO. <b>1</b>	NO. OF SHEETS <b>1</b>	ISSUE: <b>A</b>
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National Grid House,  
Warwick Technology Park,  
Gallows Hill, Warwick.  
CV34 6DA United Kingdom

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