

BT-NG-020621-545-0105

# Bramford to Twinstead Reinforcement

Volume 6: Environmental Information

Document 6.4: Environmental Statement  
Figures

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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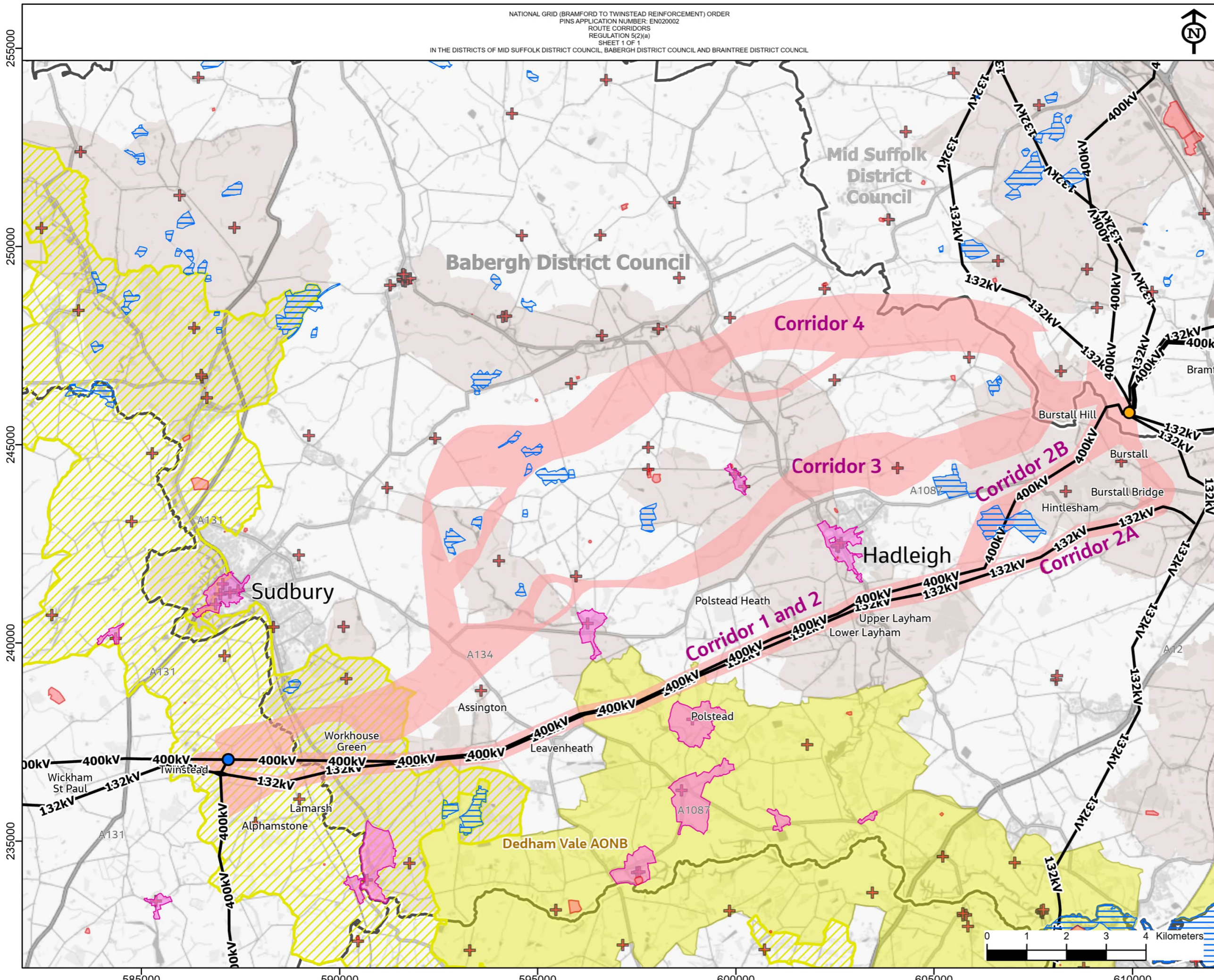
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- Local authority districts
  - Existing 400kV overhead line
  - Existing 132kV overhead line
  - Bramford Substation
  - Twinstead Tee
  - Route corridor
- Key environmental features**
- Grade 1 listed building
  - Site of Special Scientific Interest (SSSI)
  - Stour Valley Project Area
  - Area of Outstanding Natural Beauty (AONB)
  - Scheduled Monument
  - Conservation Area
  - Special Landscape Area



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TITLE: Figure 3.1 Route Corridors

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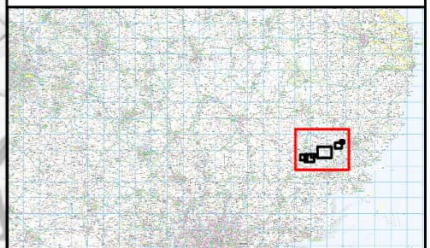
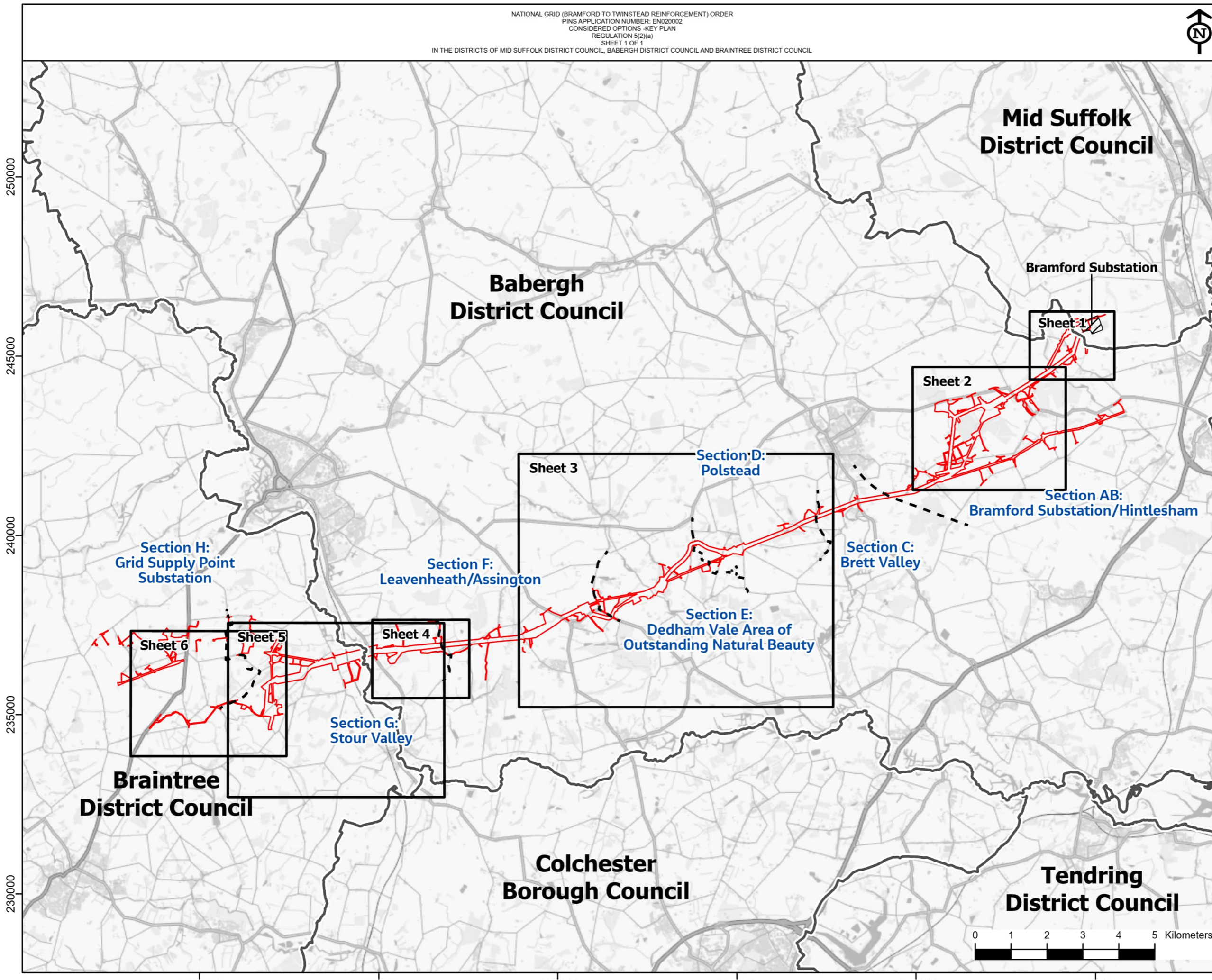






Legend

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



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TITLE: Figure 3.3  
 Considered Options -  
 Key Plan

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 – Braintree – Bulls Lodge

ORIGINATOR DRAWING NO.  
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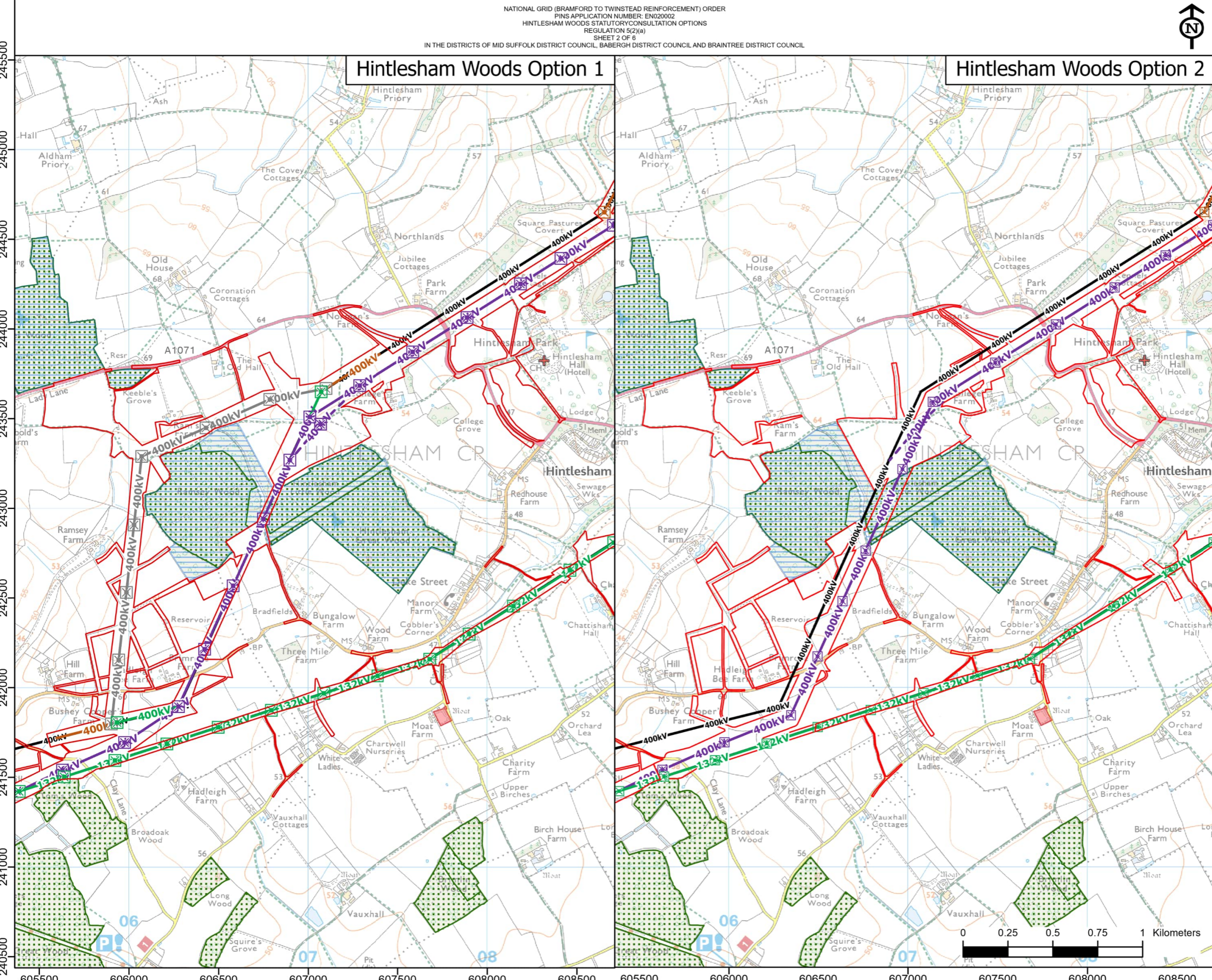








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- Order Limits
- Site of Special Scientific Interest (SSSI)
- Ancient Woodland
- Scheduled Monument
- + Grade 1 listed building
- Proposed overhead line
- Existing overhead line
- Modification works to existing overhead line
- Realignment of existing overhead line
- Removal of existing overhead line
- - - Temporary overhead line during construction
- ⊠ Proposed pylon
- ⊠ Realignment of existing pylon
- ⊠ Removal of existing pylon



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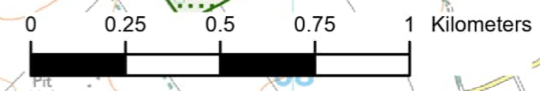
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 Hintlesham Woods Statutory  
 Consultation Options**

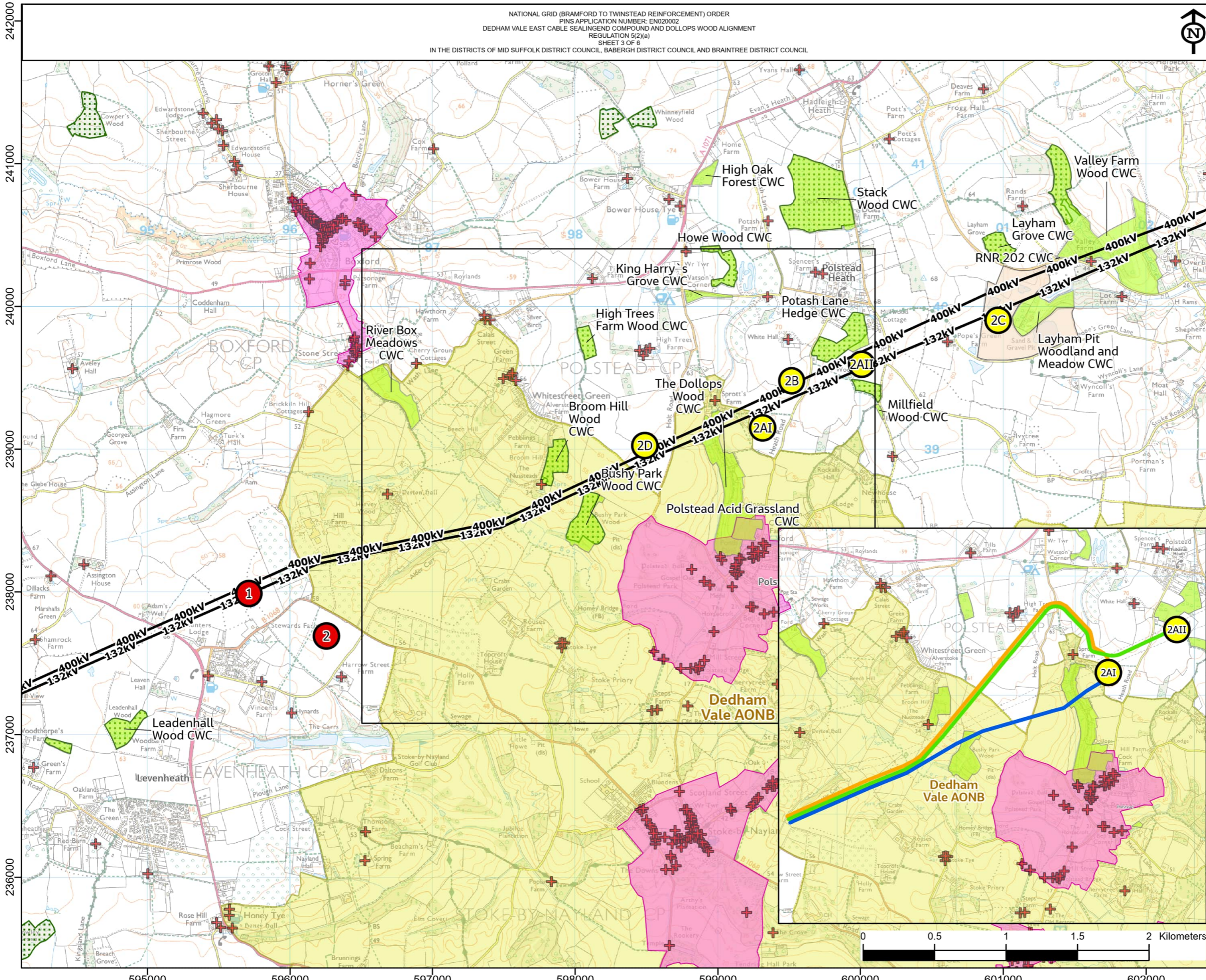
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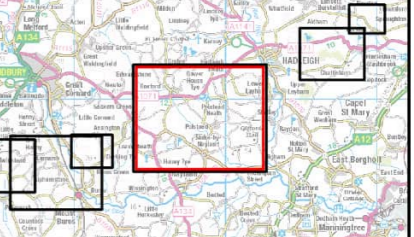




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- Legend**
- 400kV Existing 400kV overhead line
  - 132kV Existing 132kV overhead line
  - Listed building
  - County Wildlife Site
  - Conservation Area
  - Area of Outstanding Natural Beauty (AONB)
  - Authorised Landfill Sites
  - Ancient Woodland
  - Dollops Wood underground cable options
  - Option 1
  - Option 2ai
  - Option 2aii
  - Cable sealing end (CSE) compound options
  - 2C Dedham Vale East CSE compound locations
  - 2 Dedham Vale West CSE compound locations



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TITLE: Figure 3.3 Considered Options  
 Dedham Vale East Cable Sealing  
 End Compound and Dollops Wood alignment

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

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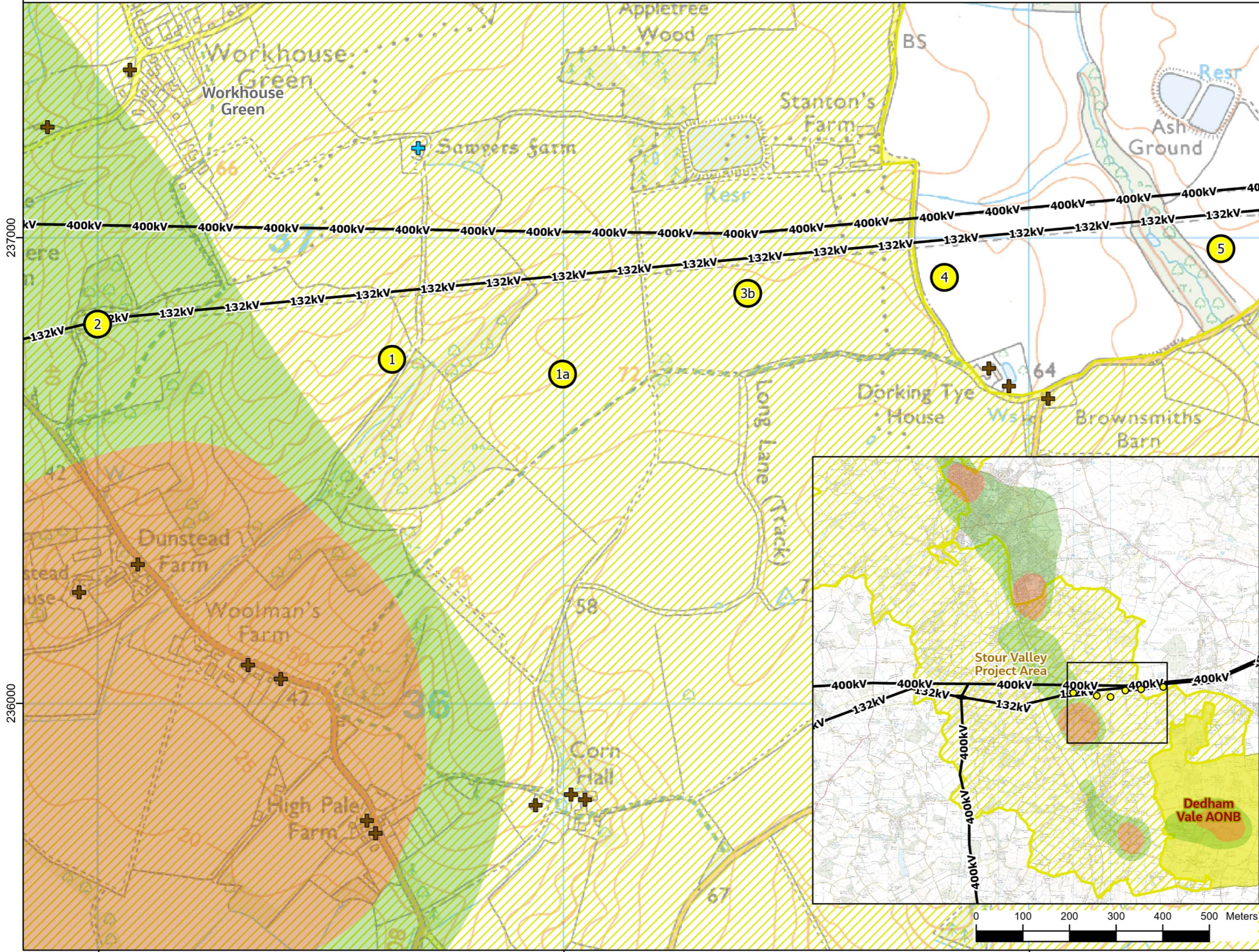
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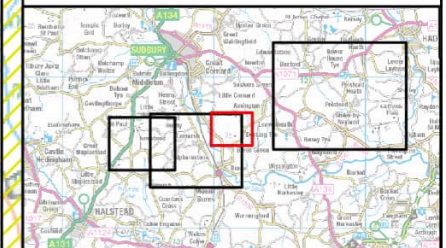
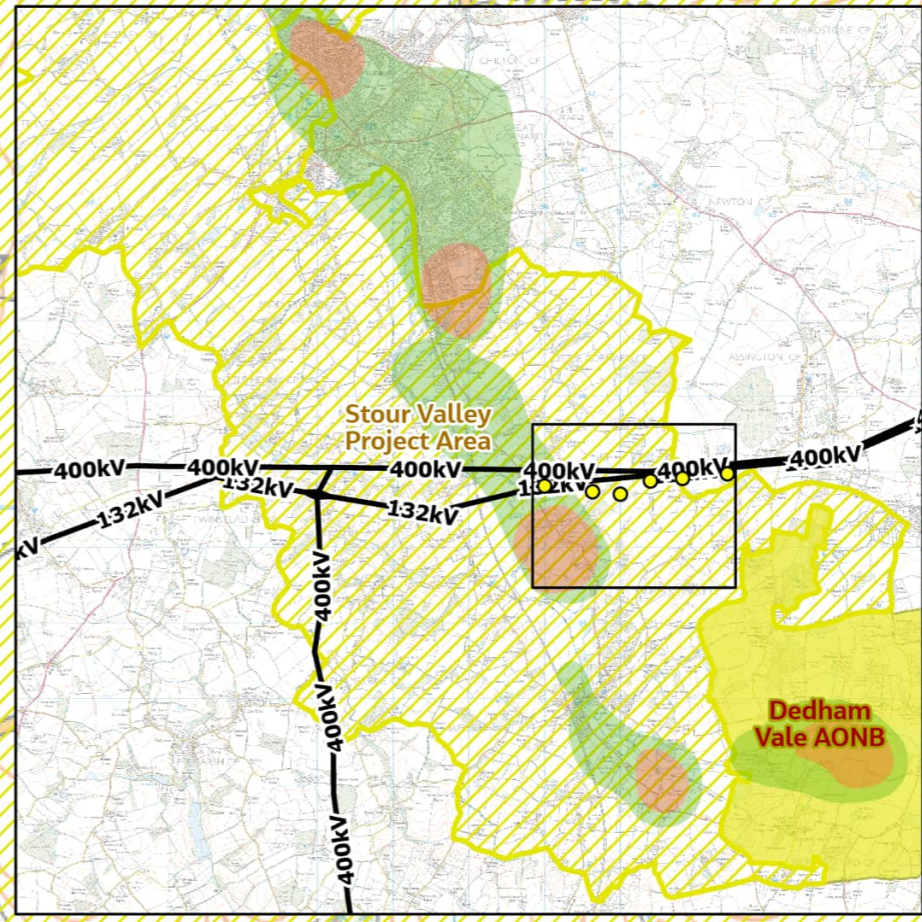




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- Legend**
- Existing 400kV overhead line
  - Existing 132kV overhead line
  - Area of Outstanding Natural Beauty (AONB)
  - Source Protection Zones I – Inner Protection Zone
  - Source Protection Zones II – Outer Protection
  - Stour Valley Project Area
- Listed Buildings**
- Grade I
  - Grade II
  - Grade II\*
- Options**
- Cable Sealing End Compound Option



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TITLE: Figure 3.3 Considered Options  
 Stour Valley Alignments and  
 Stour Valley East  
 Cable Sealing End Compound

CIRCUIT / SITE:  
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 – Braintree – Bulls Lodge

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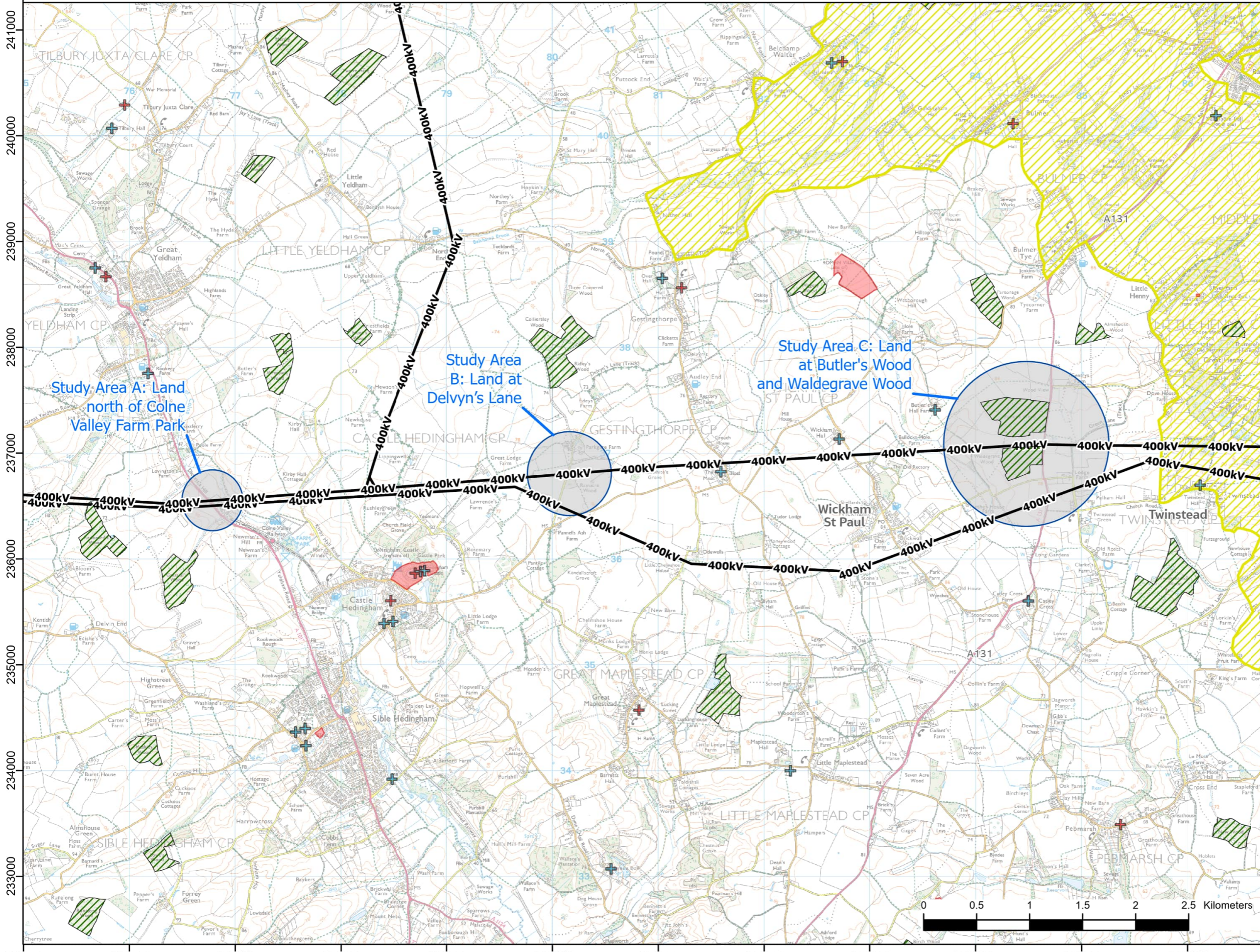








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- 400kV Existing 400kV overhead line
  - 132kV Existing 132kV overhead line
- Key environmental feature**
- +
  - +
  - +
  - +
  - +
- Grid supply point (GSP) substation options**
- +
  - +
  - +
  - +
  - +
- Study Area GSP substation sites**



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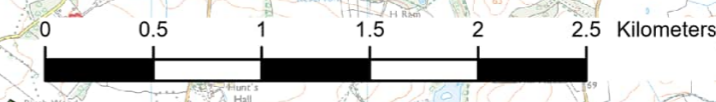
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 Grid Supply Point  
 Substation Study Areas

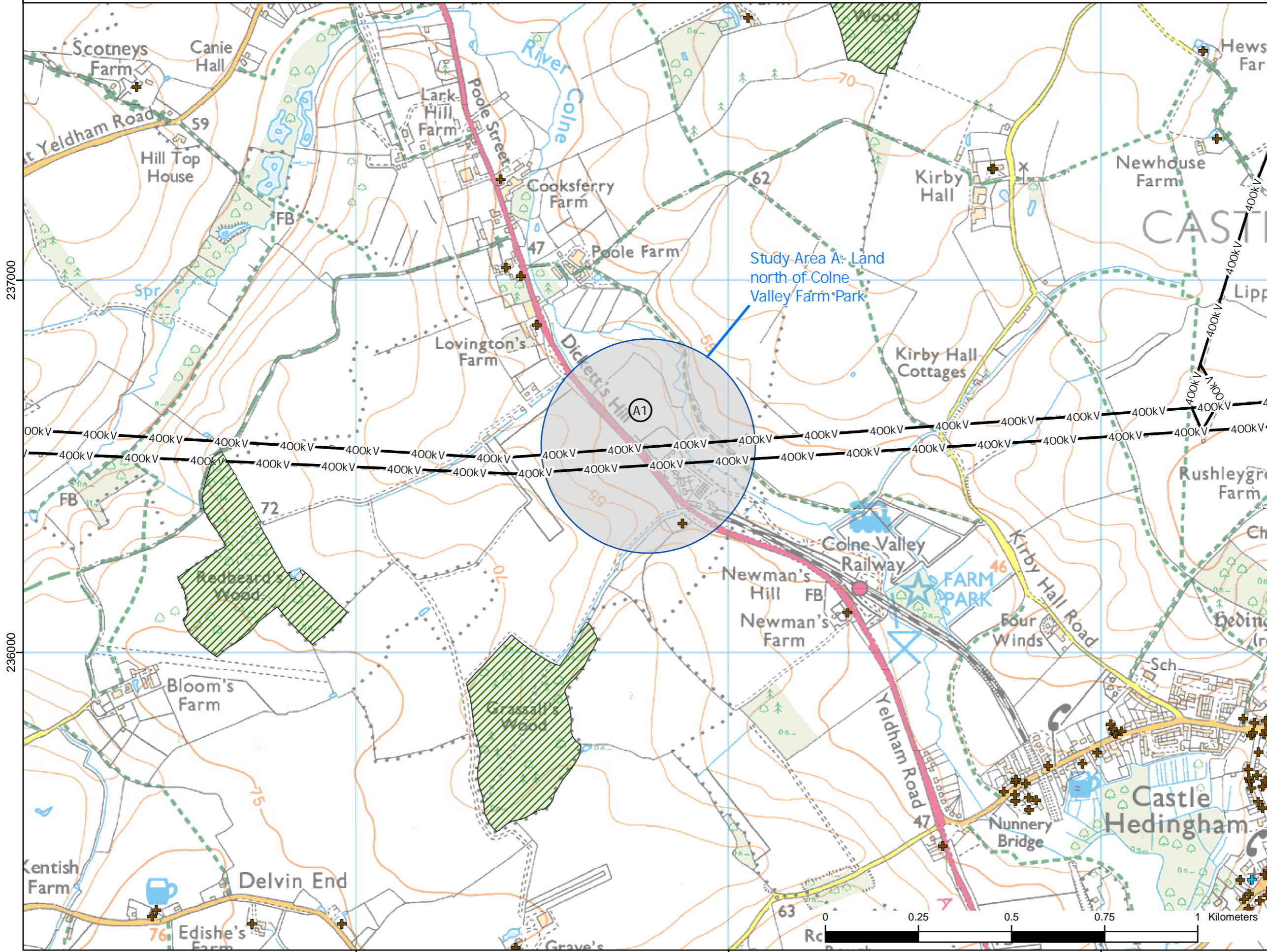
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- 400kV — Existing 400kV overhead line
- 132kV — Existing 132kV overhead line
- ⊕ Grade I Listed Buildings
- ⊕ Grade II\* Listed Buildings
- ⊕ Grade II Listed Buildings
- Scheduled Monument
- ▨ Stour Valley Project Area
- ▨ Ancient Woodland Inventory Site
- Substation study area



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 Grid Supply Point  
 Substation Study Areas**

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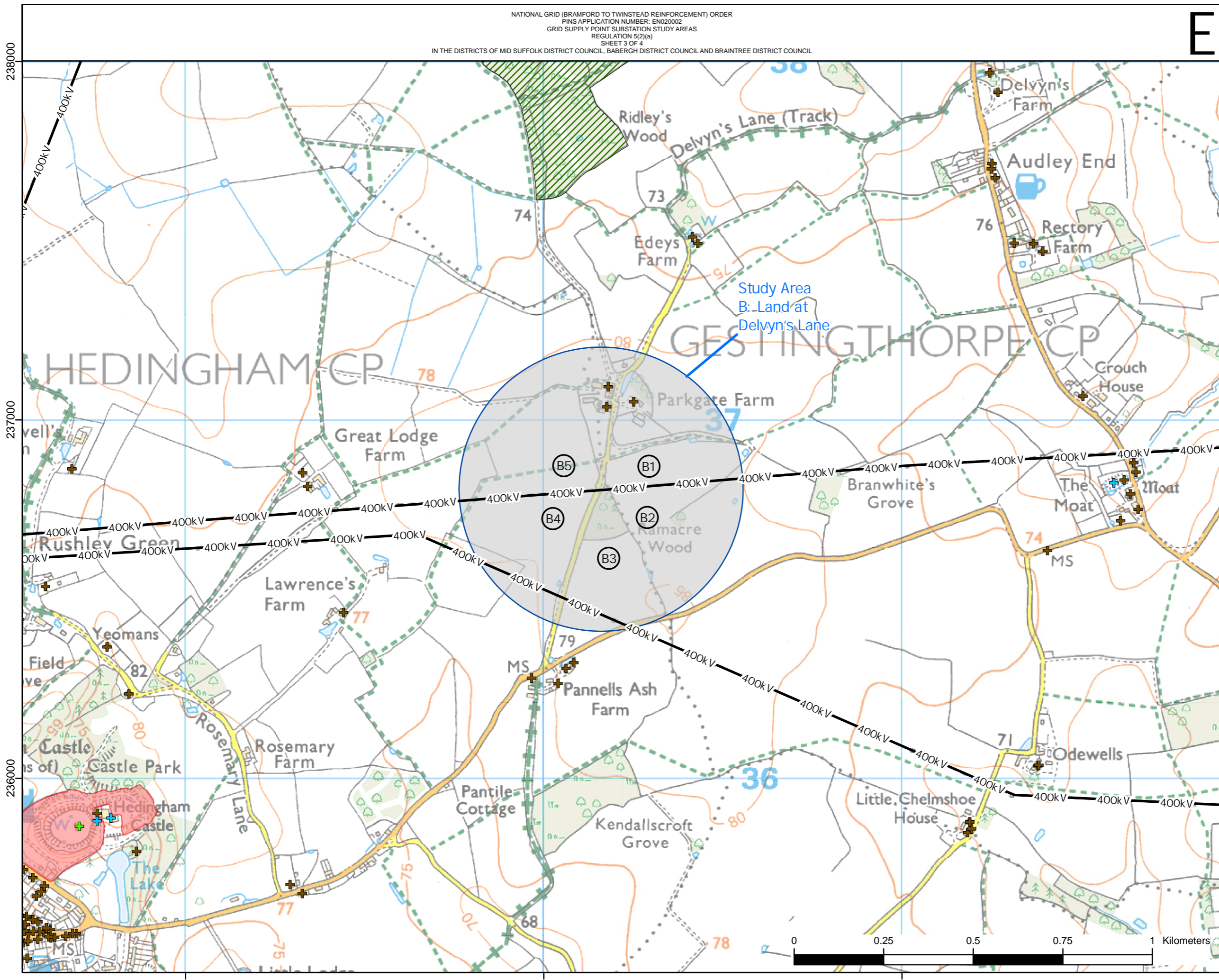
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- Existing 400kV overhead line
- Existing 132kV overhead line
- ⊕ Grade I Listed Buildings
- ⊕ Grade II\* Listed Buildings
- ⊕ Grade II Listed Buildings
- Scheduled Monument
- ▨ Stour Valley Project Area
- ▨ Ancient Woodland Inventory Site
- Substation study area



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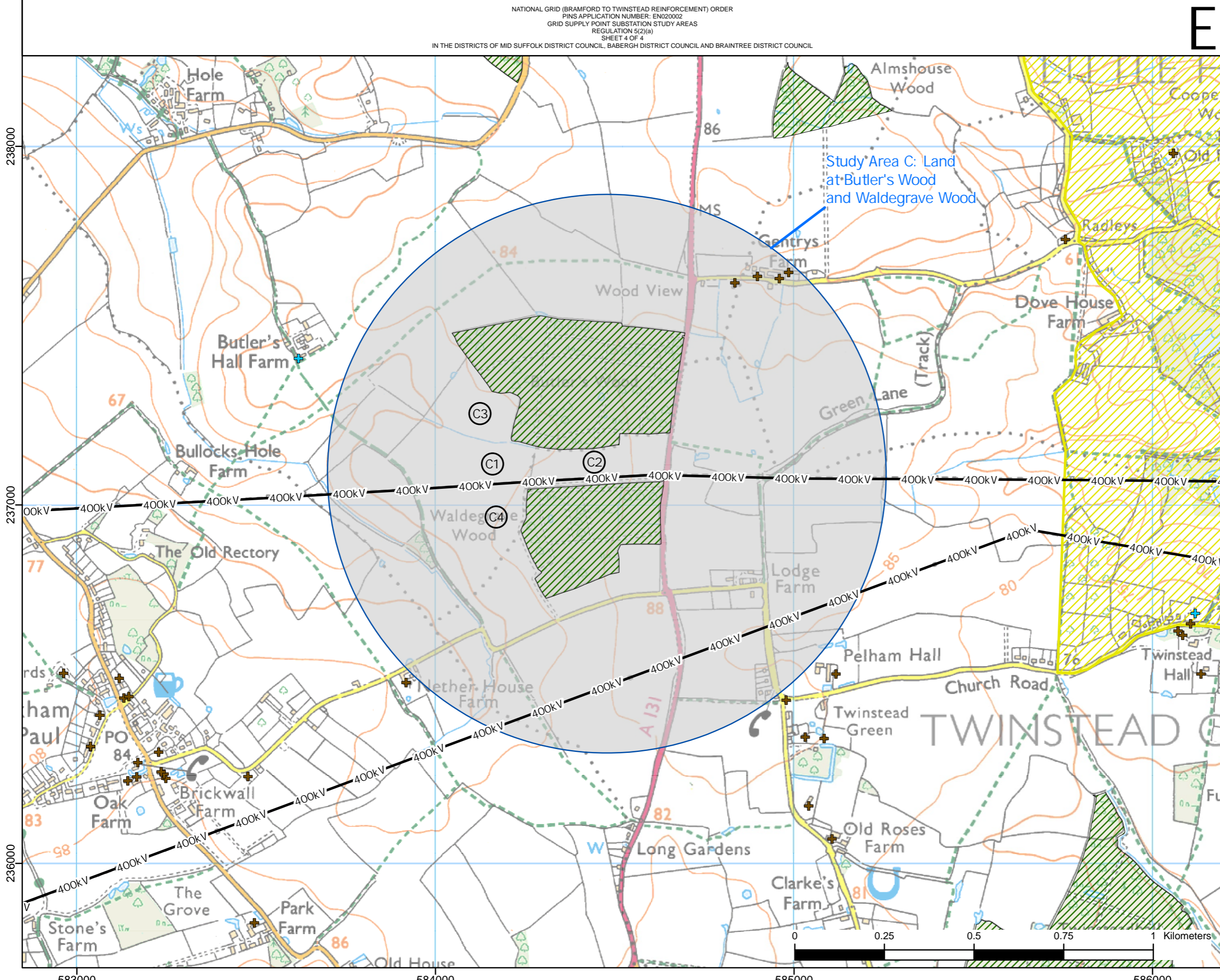
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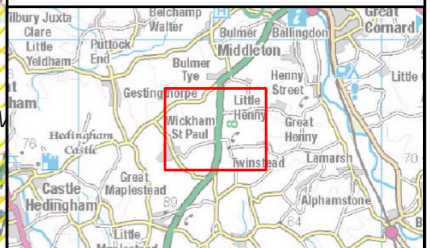
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 Grid Supply Point  
 Substation Study Areas

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- Existing 400kV overhead line
- Existing 132kV overhead line
- ⊕ Grade I Listed Buildings
- ⊕ Grade II\* Listed Buildings
- ⊕ Grade II Listed Buildings
- Scheduled Monument
- ▨ Stour Valley Project Area
- ▨ Ancient Woodland Inventory Site
- Substation study area



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TITLE: Figure 3.4  
 Grid Supply Point  
 Substation Study Areas

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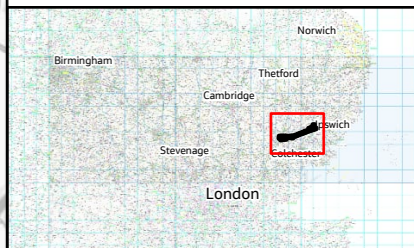
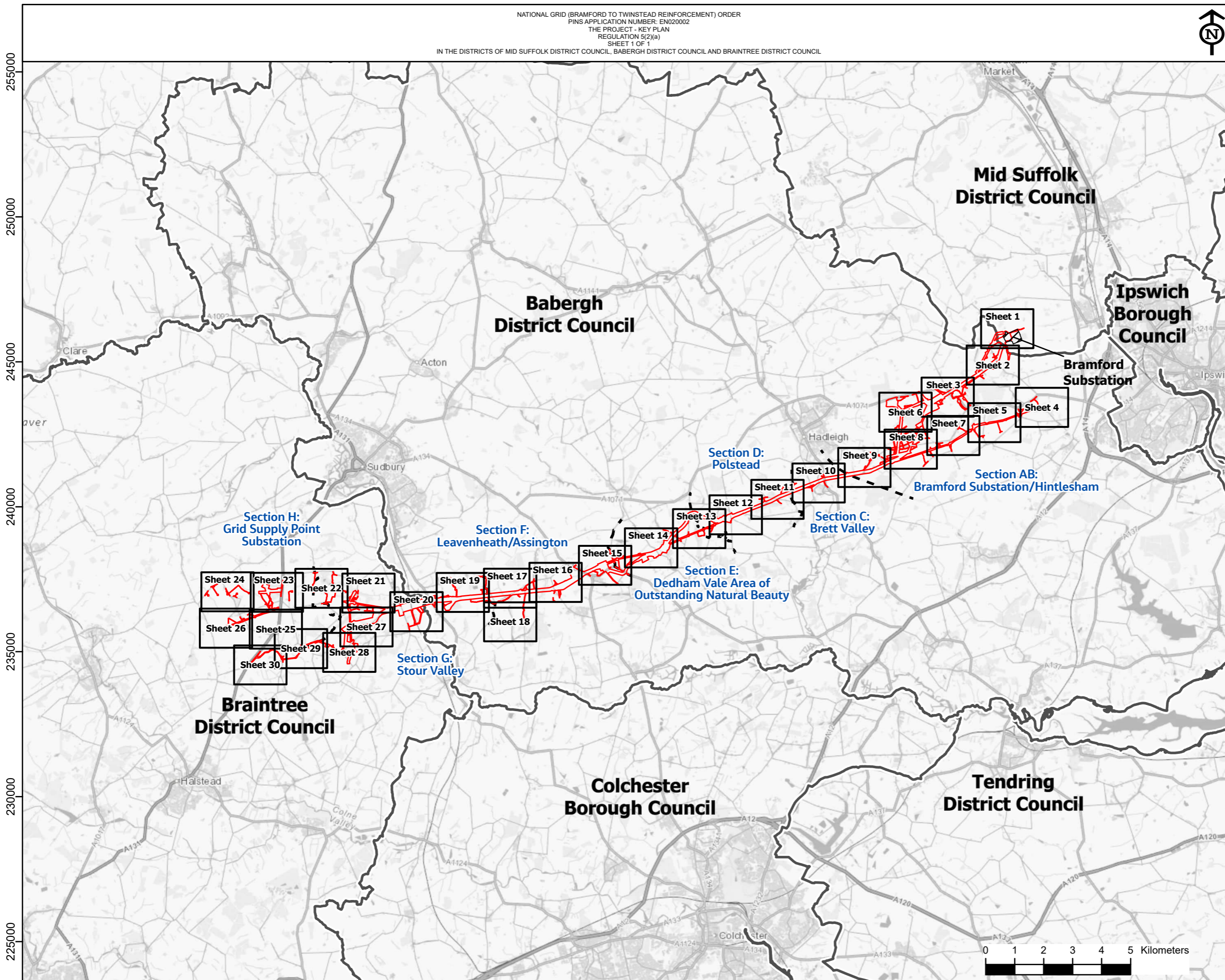




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Legend

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



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TITLE: Figure 4.1  
The Project - Key Plan

CIRCUIT / SITE :  
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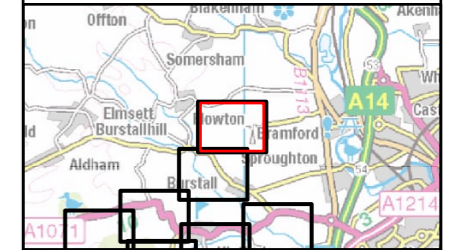


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Pylon Reference Numbers	
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

Legend	
Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
 for further details (application document 6.2.4)



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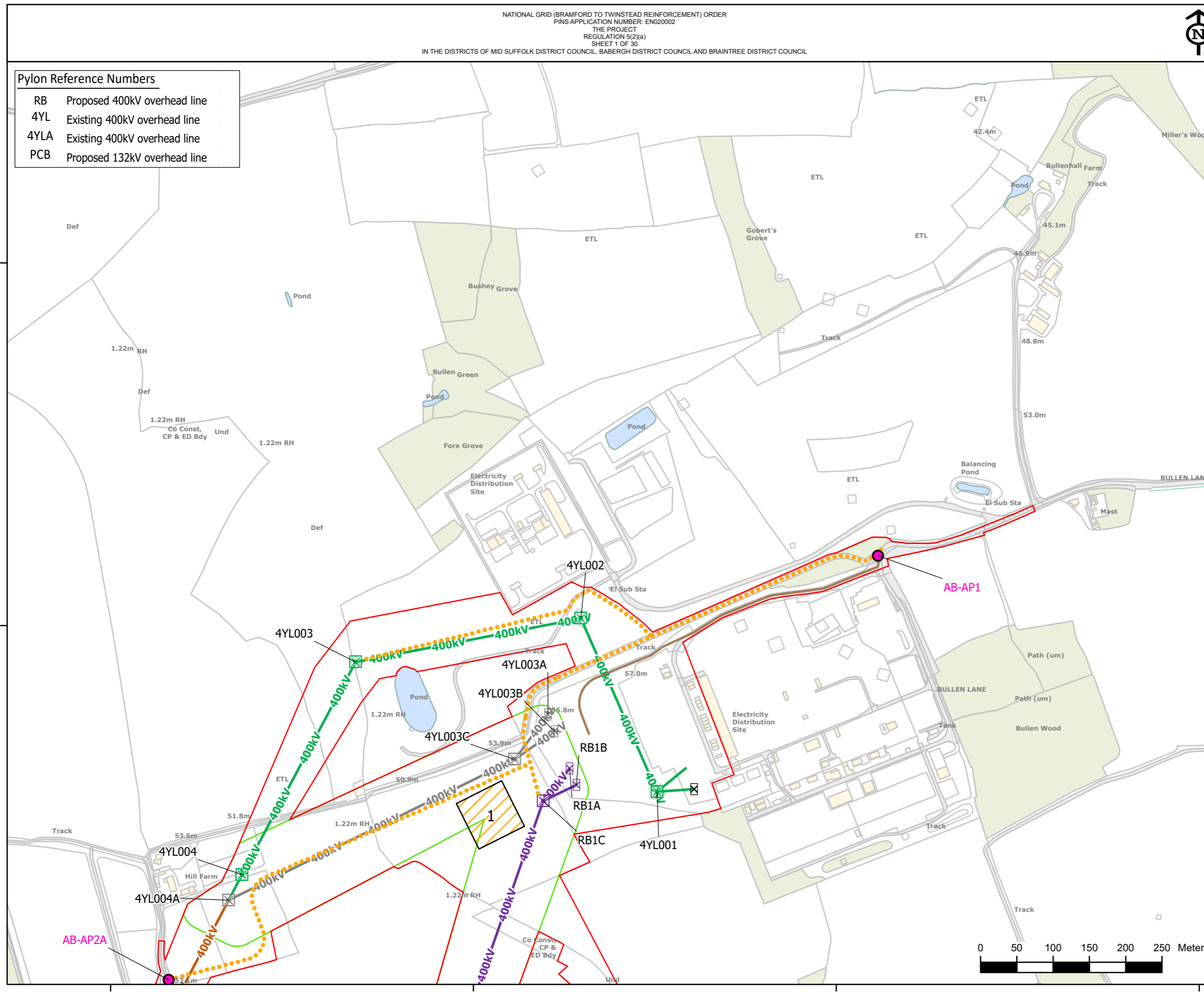
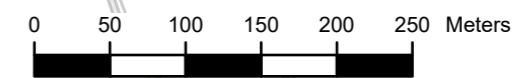
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TITLE: **Figure 4.1  
The Project**

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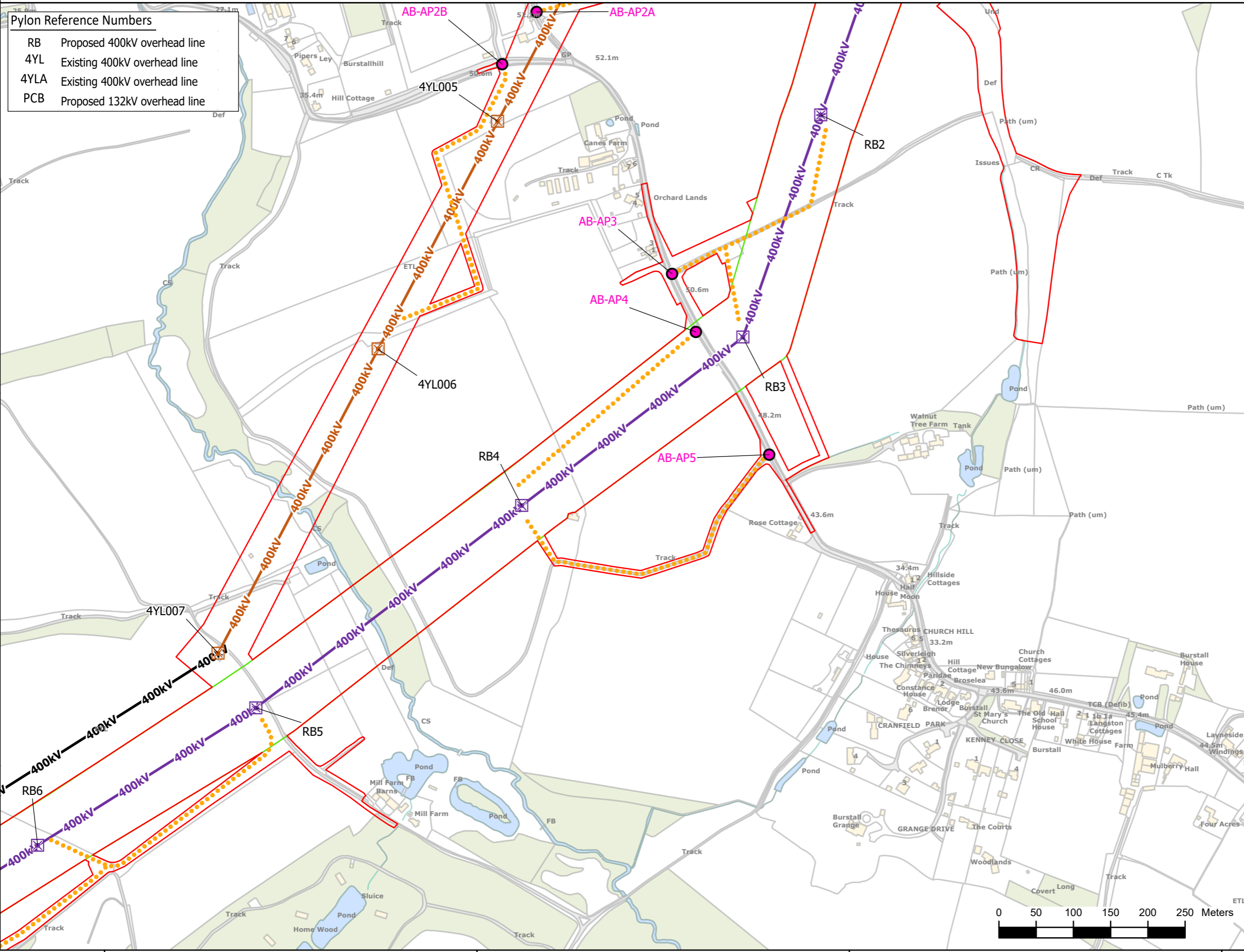
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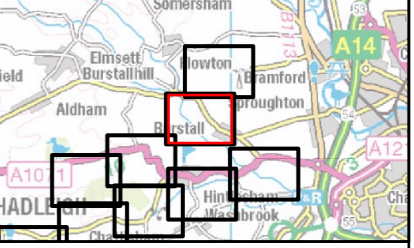
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Pylon Reference Numbers	
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line



Legend	
—	Section boundaries
—	Order Limits
—	Limits of deviation
⊗	Proposed pylon
⊗	Existing pylon
⊗	Proposed gantry
⊗	Existing gantry
⊗	Proposed pylon modification works
⊗	Proposed pylon realignment
⊗	Proposed gantry realignment
—	Proposed overhead line
—	Existing overhead line
—	Proposed modification to overhead line
—	Proposed realignment of existing overhead line
—	Proposed removal of overhead line
—	Proposed underground cable
—	Cable sealing end compound
—	Proposed grid supply point substation (GSP)
—	Proposed power connection
—	Permanent access route
—	Assumed horizontal directional drilling pits
—	Temporary construction compound
—	Embedded planting
—	Trenchless crossings
—	Temporary access route
—	Use of existing track or trackway protection
—	4m access route with 4m soil storage
—	7m access route
—	7m access route with 4m soil storage
●	Access points
—	Access route crossings
+	Temporary bridges
—	Underground cable watercourse crossings
—	Trenchless crossing
○	Open cut

This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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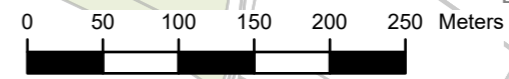


TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. <b>BT-JAC-020631-500-0072</b>	SHEET NO. <b>2</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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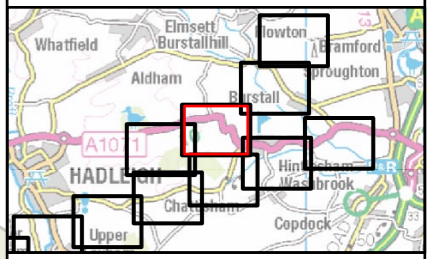
**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed removal of overhead line	Temporary bridges
Proposed realignment of existing overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	04/2023	Rev A for DCO Application	PM	LJ	CW

PROJECT: **Bramford to Twinstead Reinforcement**



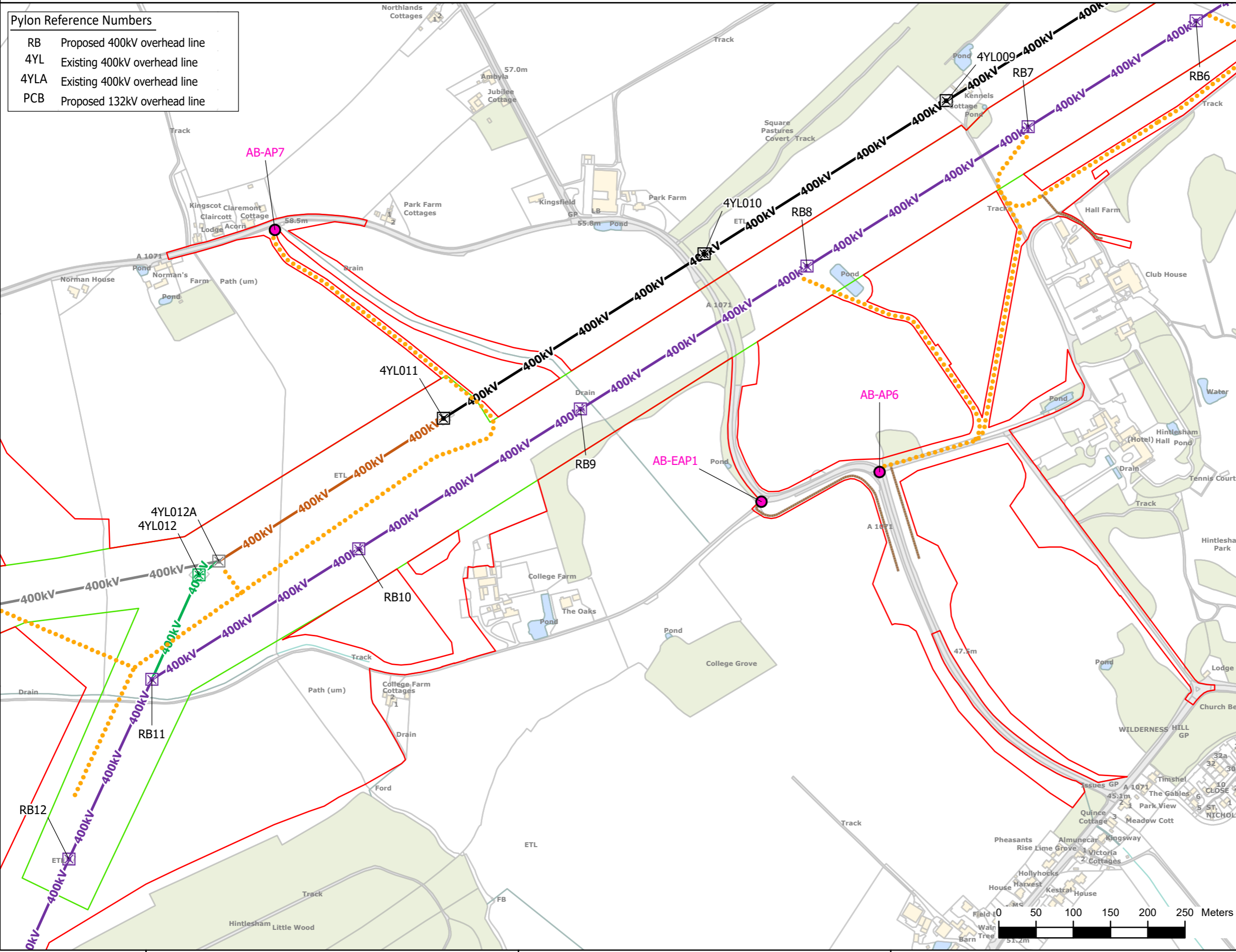
TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. <b>3</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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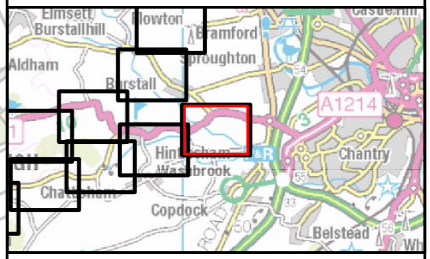
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Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

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NG Investment No. ETX/01142

A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

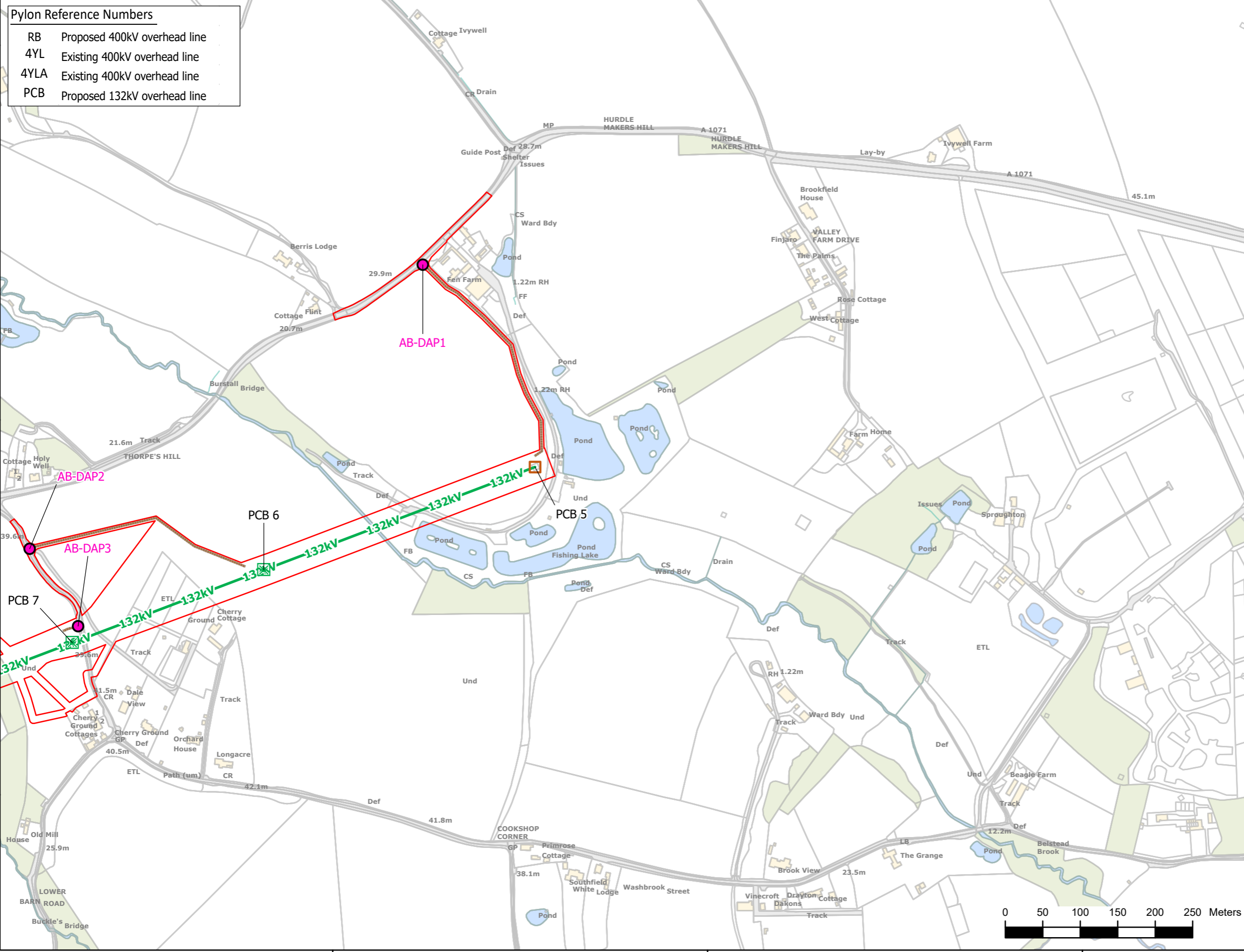
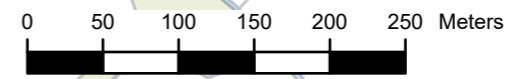


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CIRCUIT / SITE : **Bramford – Pelham & Bramford – Braintree – Bulls Lodge**

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. <b>4</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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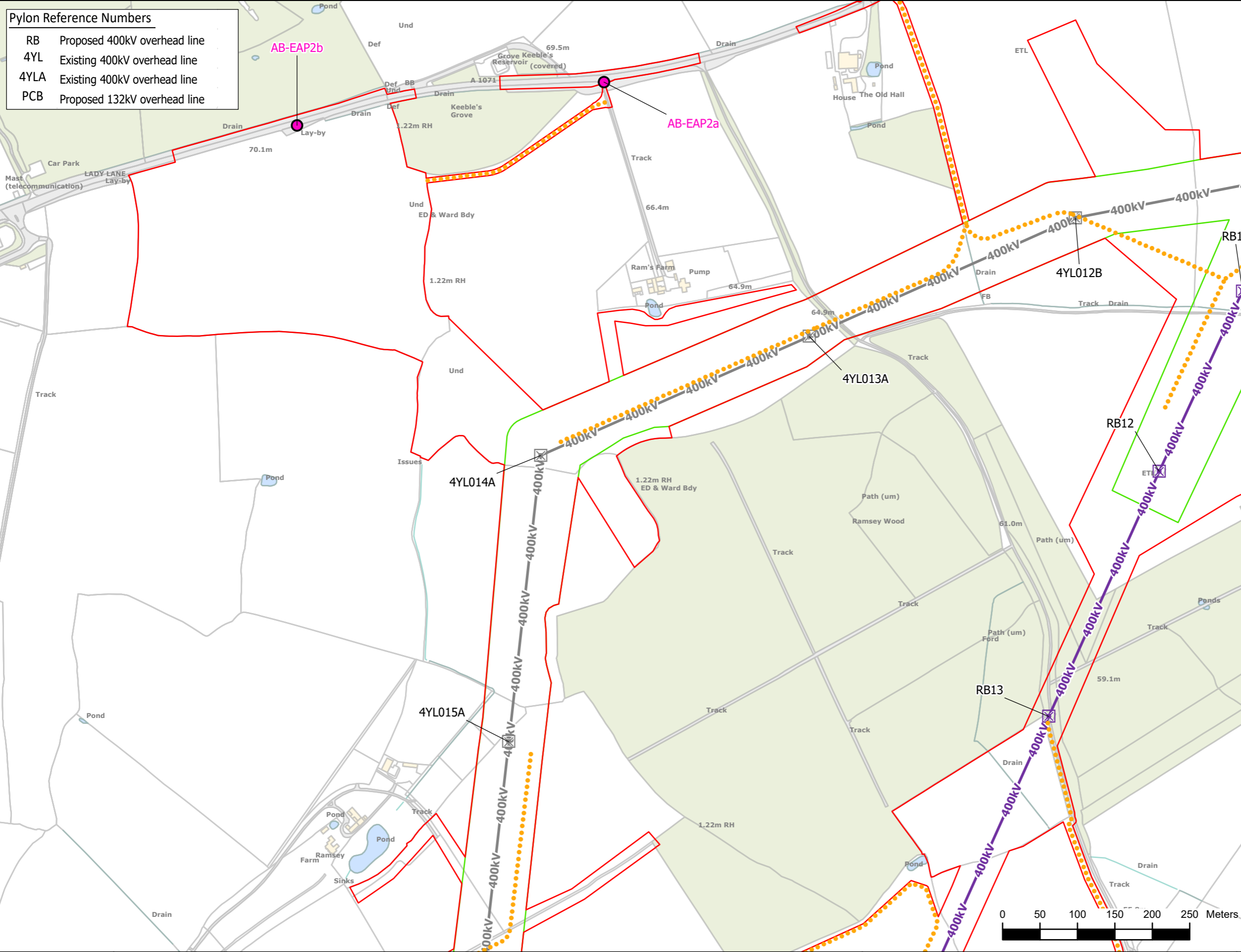






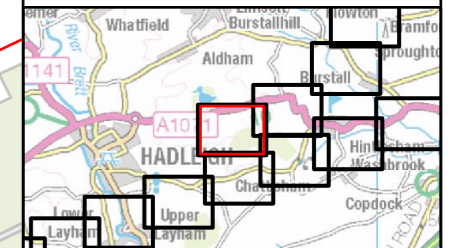
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Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Proposed modification to overhead line
Proposed removal of overhead line	Proposed realignment of existing overhead line
Proposed underground cable	Proposed removal of overhead line
Cable sealing end compound	Proposed underground cable
	Access route crossings
	Temporary bridges
	Underground cable watercourse crossings
	Trenchless crossing
	Open cut

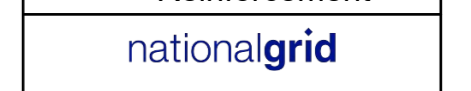
This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



NG Investment No. ETX/01142


ISSUE	DATE	REMARKS	DRWN	CHKD	APPD
A	04/2023	Rev A for DCO Application	PM	LJ	CW

PROJECT: **Bramford to Twinstead Reinforcement**



TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** A3

NG DRAWING No. <b>BT-JAC-020631-500-0072</b>	SHEET NO. <b>6</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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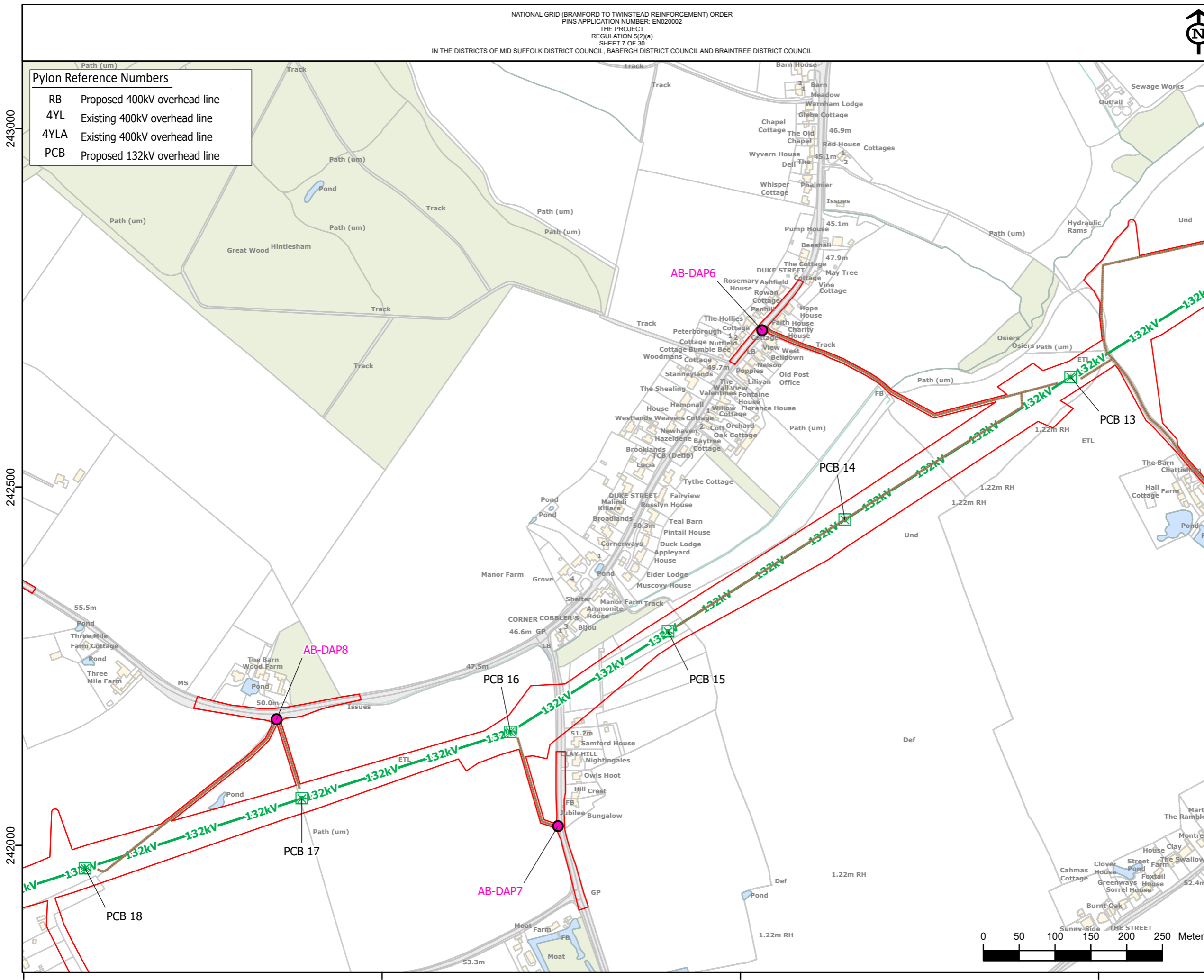




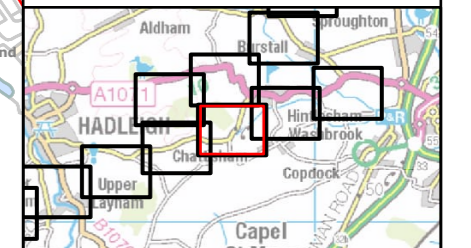
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Legend	
	Section boundaries
	Order Limits
	Limits of deviation
	Proposed pylon
	Proposed gantry
	Existing pylon
	Existing gantry
	Proposed pylon modification works
	Proposed pylon realignment
	Proposed pylon removal
	Proposed gantry realignment
	Proposed overhead line
	Existing overhead line
	Proposed modification to overhead line
	Proposed realignment of existing overhead line
	Proposed removal of overhead line
	Proposed underground cable
	Cable sealing end compound
	Proposed grid supply point substation (GSP)
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	Assumed horizontal directional drilling pits
	Temporary construction compound
	Embedded planting
	Trenchless crossings
	Temporary access route
	Use of existing track or trackway protection
	4m access route with 4m soil storage
	7m access route
	7m access route with 4m soil storage
	Access points
	Access route crossings
	Temporary bridges
	Underground cable watercourse crossings
	Trenchless crossing
	Open cut



This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



NG Investment No. ETX/01142					
A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

**nationalgrid**

TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** **A3**

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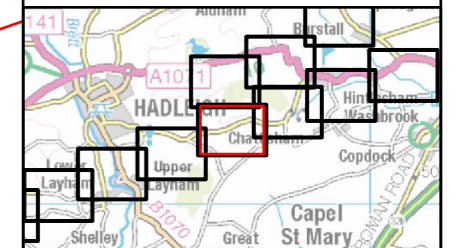


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Legend	
	Section boundaries
	Order Limits
	Limits of deviation
	Proposed pylon
	Existing pylon
	Proposed pylon modification works
	Proposed pylon realignment
	Proposed pylon removal
	Proposed gantry realignment
	Proposed overhead line
	Existing overhead line
	Proposed modification to overhead line
	Proposed realignment of existing overhead line
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	Proposed underground cable
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	Temporary bridges
	Underground cable watercourse crossings
	Trenchless crossing
	Open cut

This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

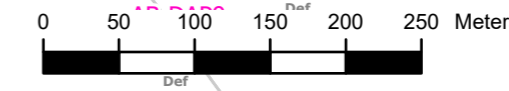
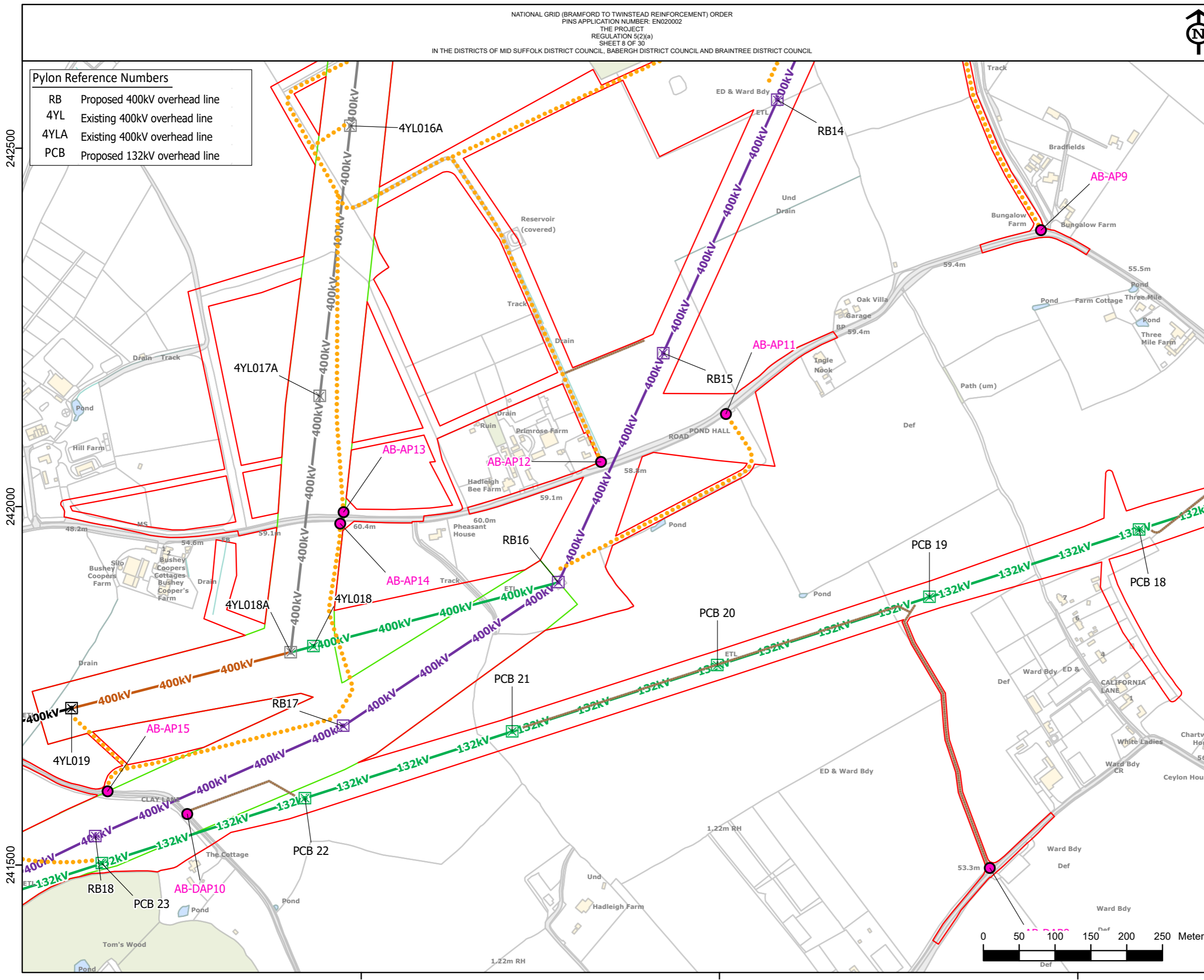


TITLE: **Figure 4.1 The Project**

CIRCUIT / SITE:	Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
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ORIGINATOR DRAWING NO.	AAA_BTT_Figure_4_1_Rev0	A3
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NG DRAWING No.	BT-JAC-020631-500-0072	SHEET NO.	8	NO. OF SHEETS	30	ISSUE:	A
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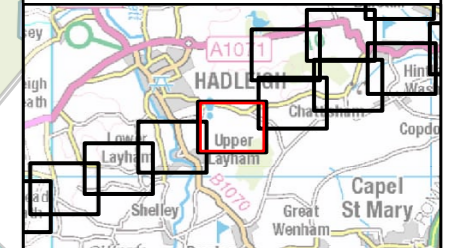
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Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
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NG Investment No. ETX/01142

A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

**nationalgrid**

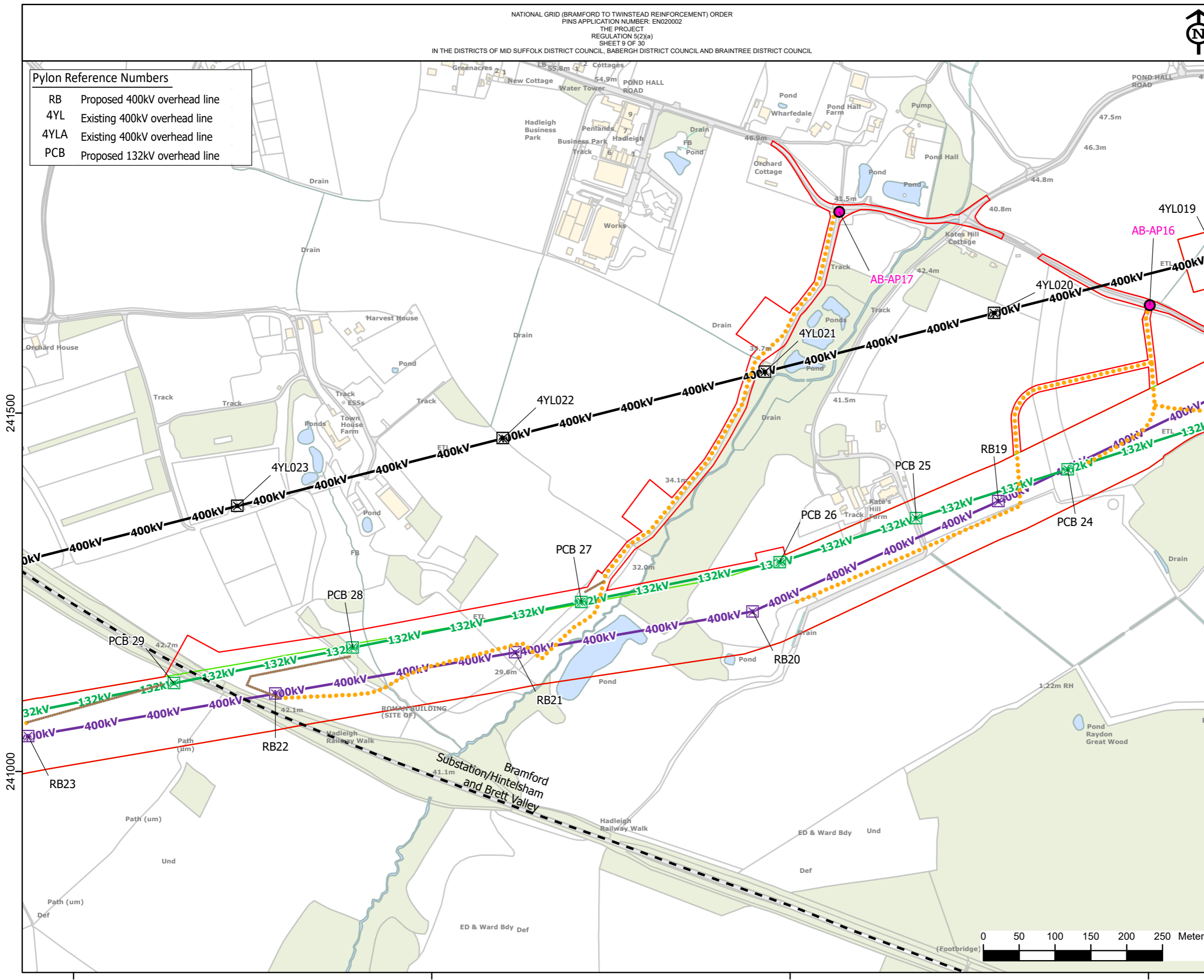
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CIRCUIT / SITE: **Bramford – Pelham & Bramford – Braintree – Bulls Lodge** GIS

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NG DRAWING No. **BT-JAC-020631-500-0072** SHEET NO. **9** NO. OF SHEETS **30** ISSUE: **A**

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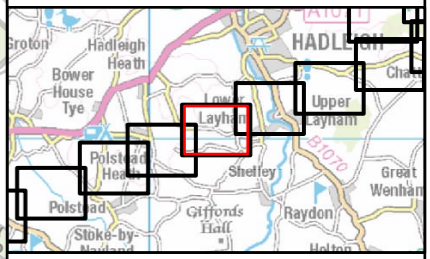
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Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut

This figure shows the Proposed Alignment  
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 for further details (application document 6.2.4)



NG Investment No. ETX/01142

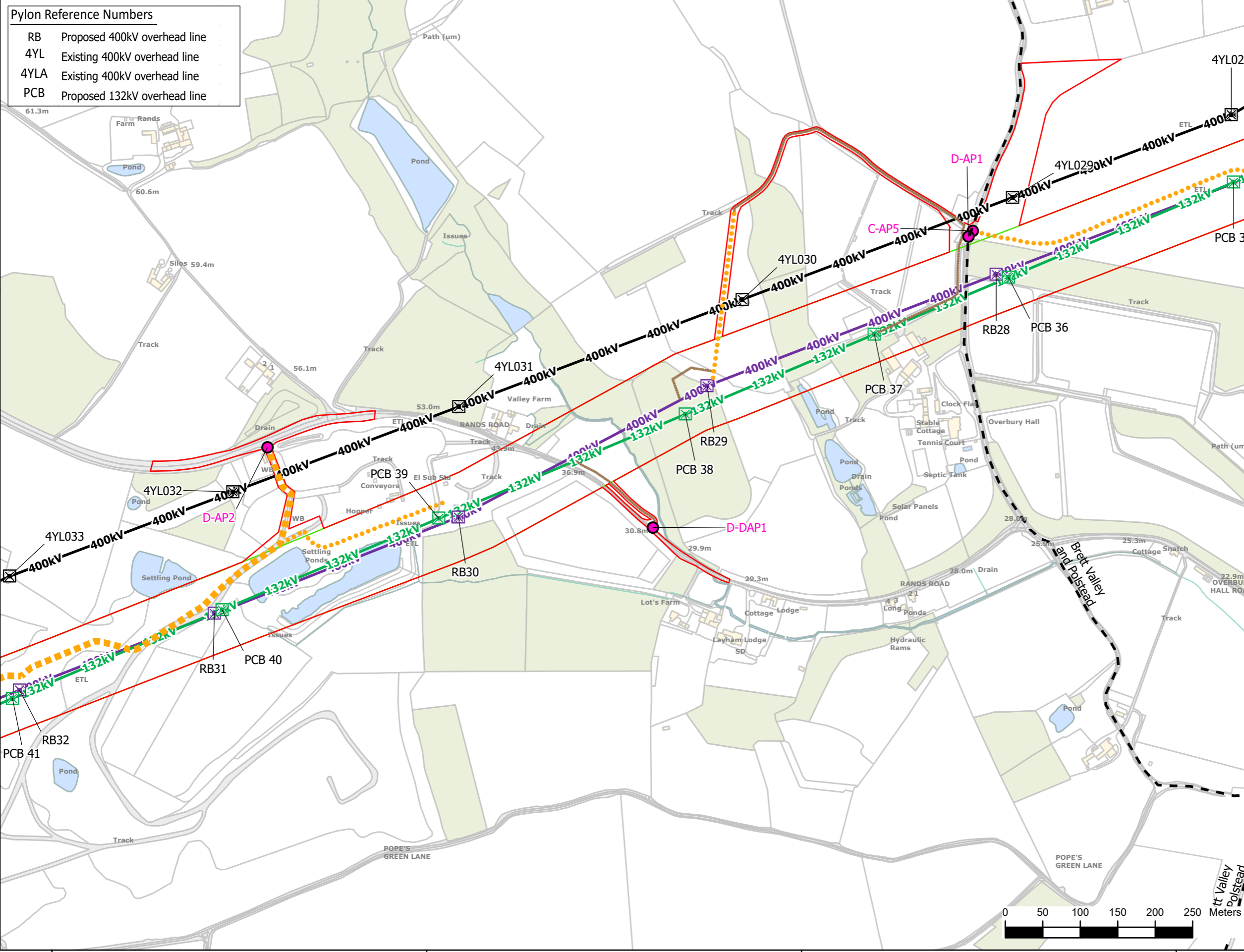
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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**



TITLE: **Figure 4.1 The Project**

CIRCUIT / SITE:	Bramford – Pelham & Bramford – Braitree – Bulls Lodge	GIS
ORIGINATOR DRAWING NO.:	AAA_BTT_Figure_4_1_Rev0	A3
NG DRAWING No.:	BT-JAC-020631-500-0072	NO. OF SHEETS: 11 30
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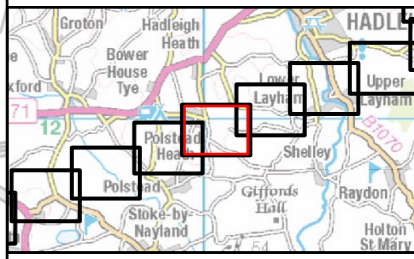
RB	Proposed 400kV overhead line
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EM-D01: The design allows for an area of landscape planting around the cable sealing end compound at Dedham Vale East. The embedded planting will be maintained for the life of the cable sealing end compound.

**Legend**

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Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut

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PROJECT: Bramford to Twinstead Reinforcement

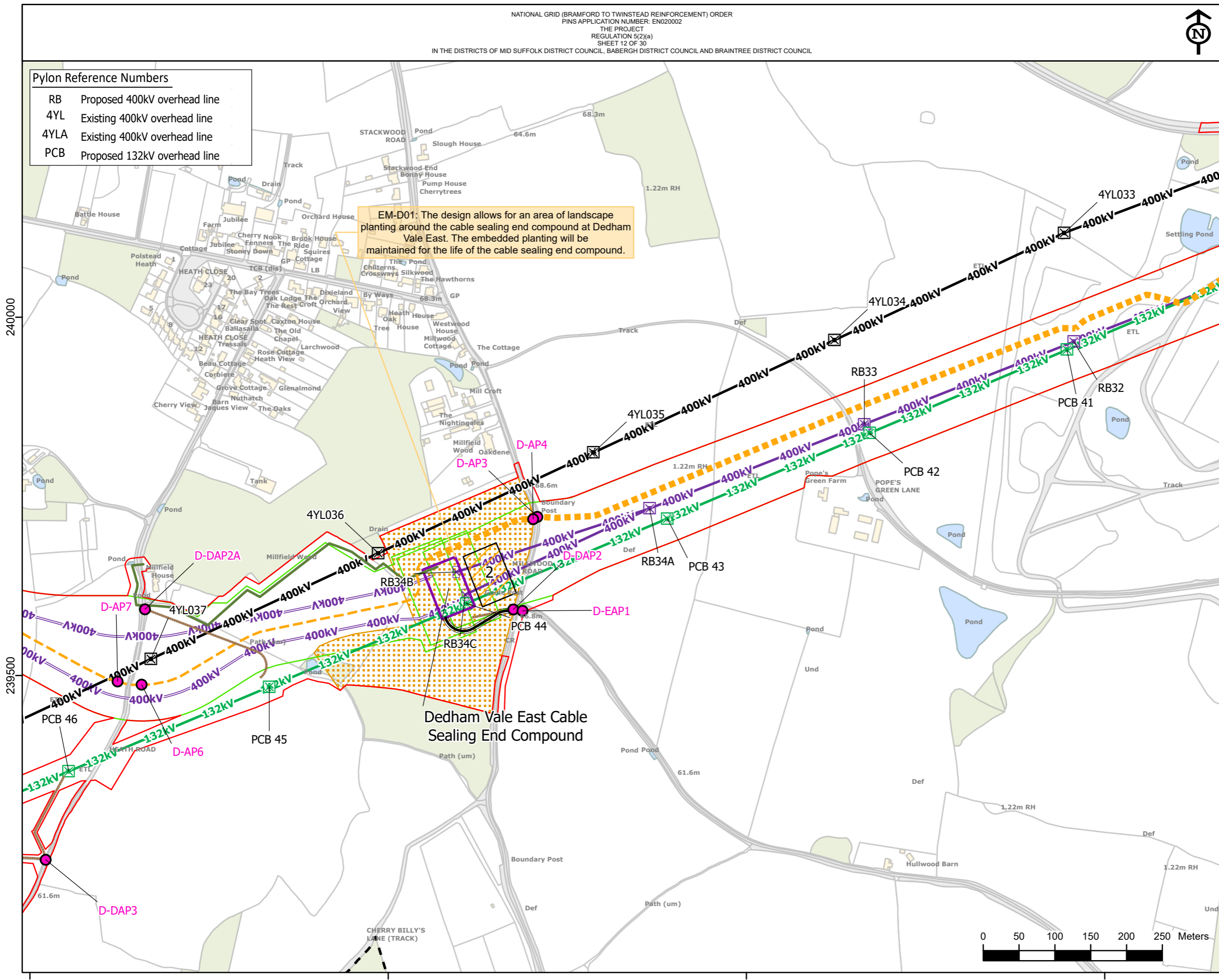
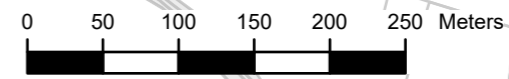


TITLE: Figure 4.1 The Project

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

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_4\_1\_Rev0

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. 12	NO. OF SHEETS 30	ISSUE: A
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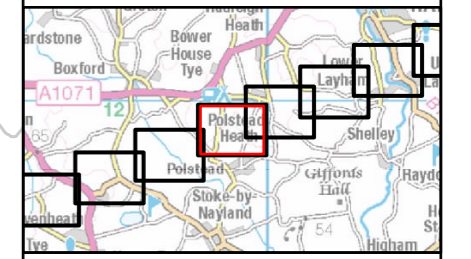
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Proposed underground cable	Open cut
Cable sealing end compound	

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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

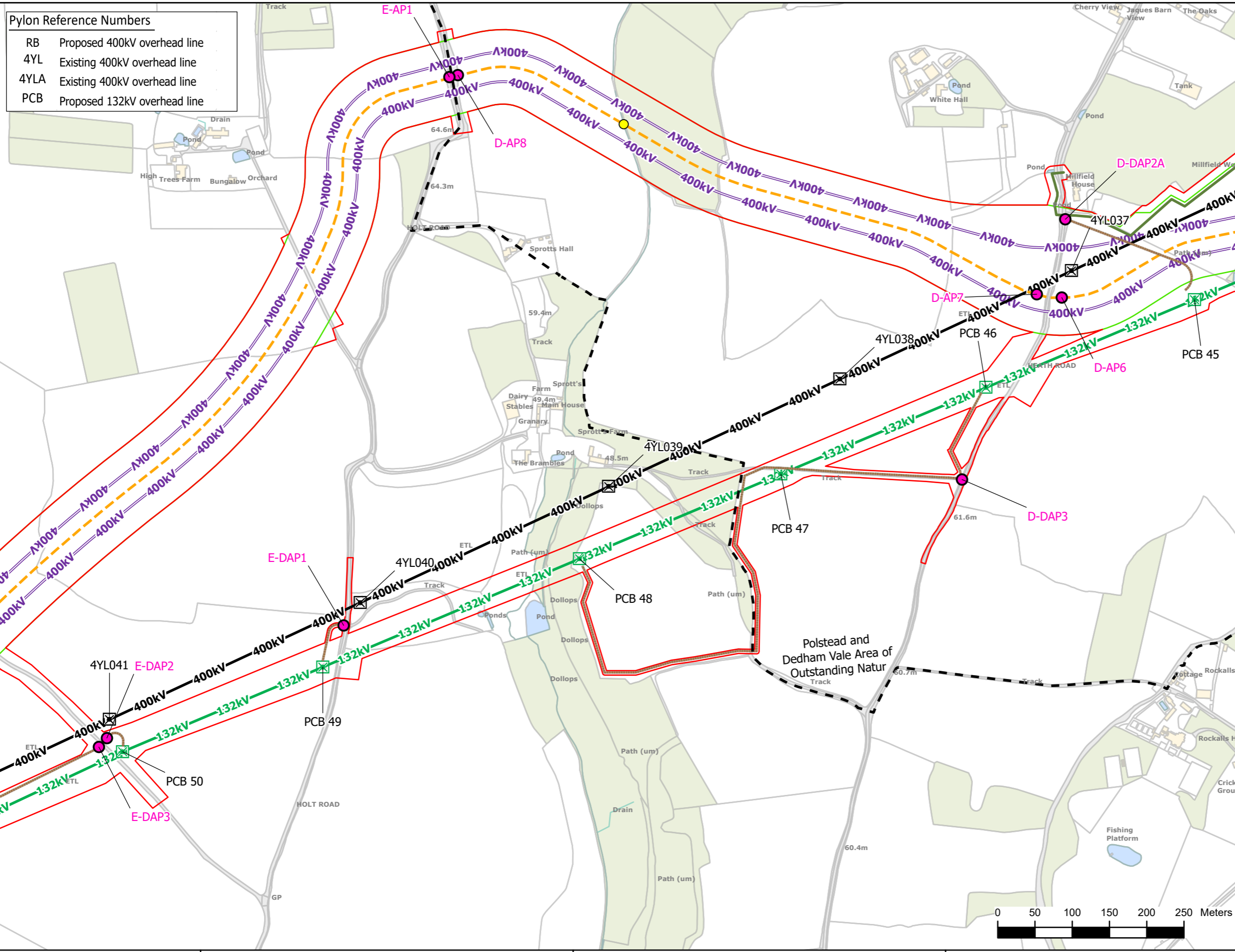


TITLE: Figure 4.1 The Project

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

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_4\_1\_Rev0 A3

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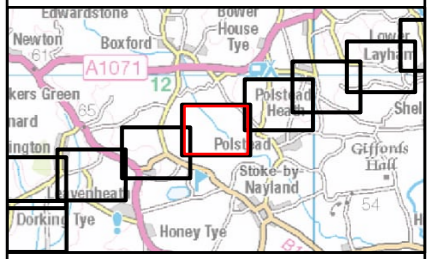
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Cable sealing end compound	Open cut

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PROJECT: **Bramford to Twinstead Reinforcement**



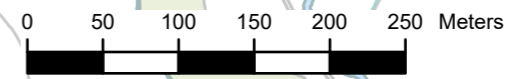
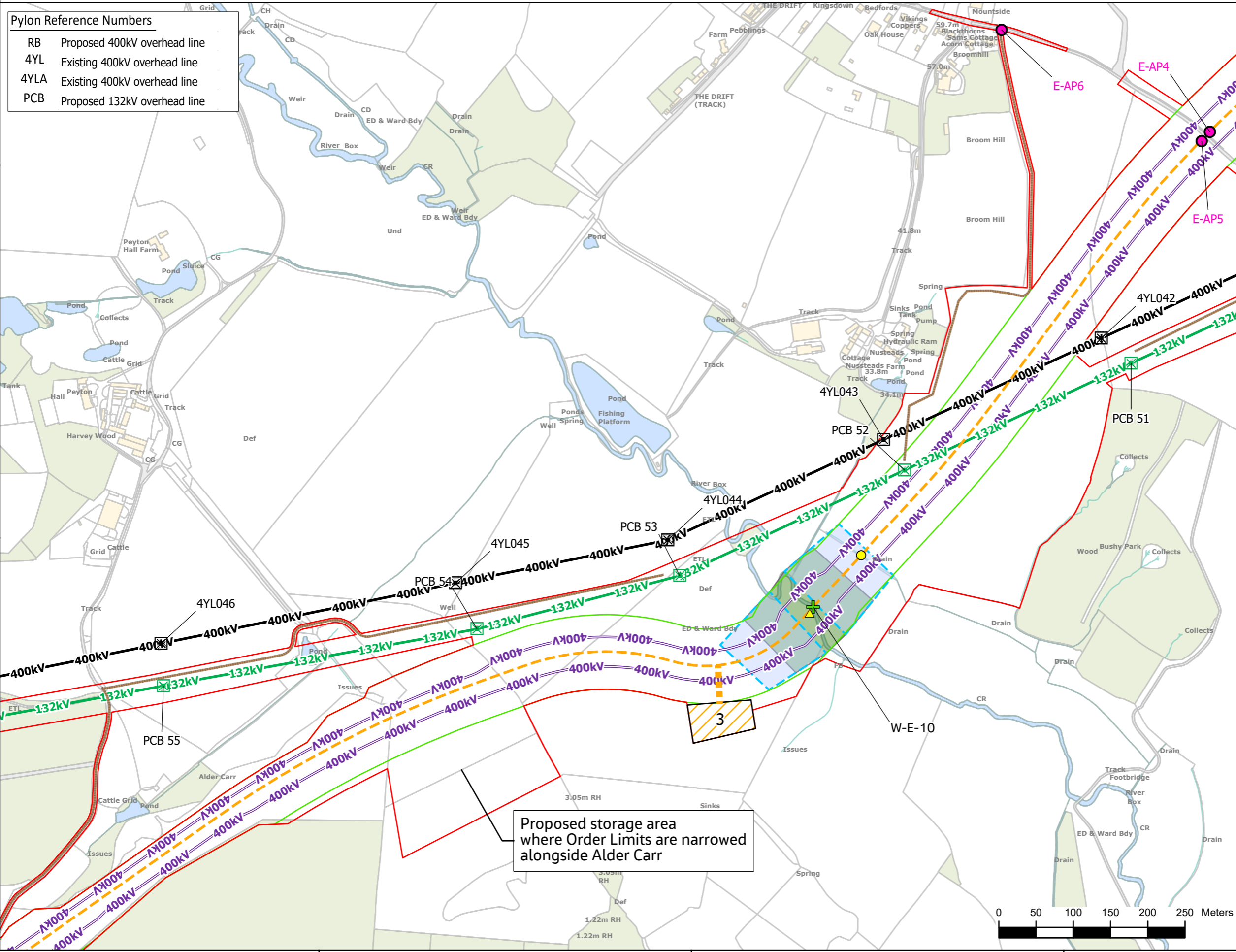
TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. <b>14</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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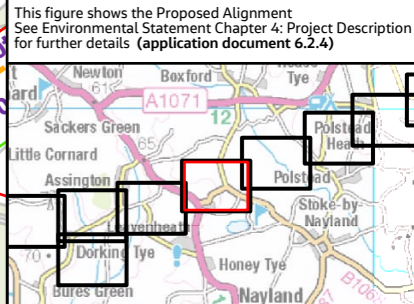
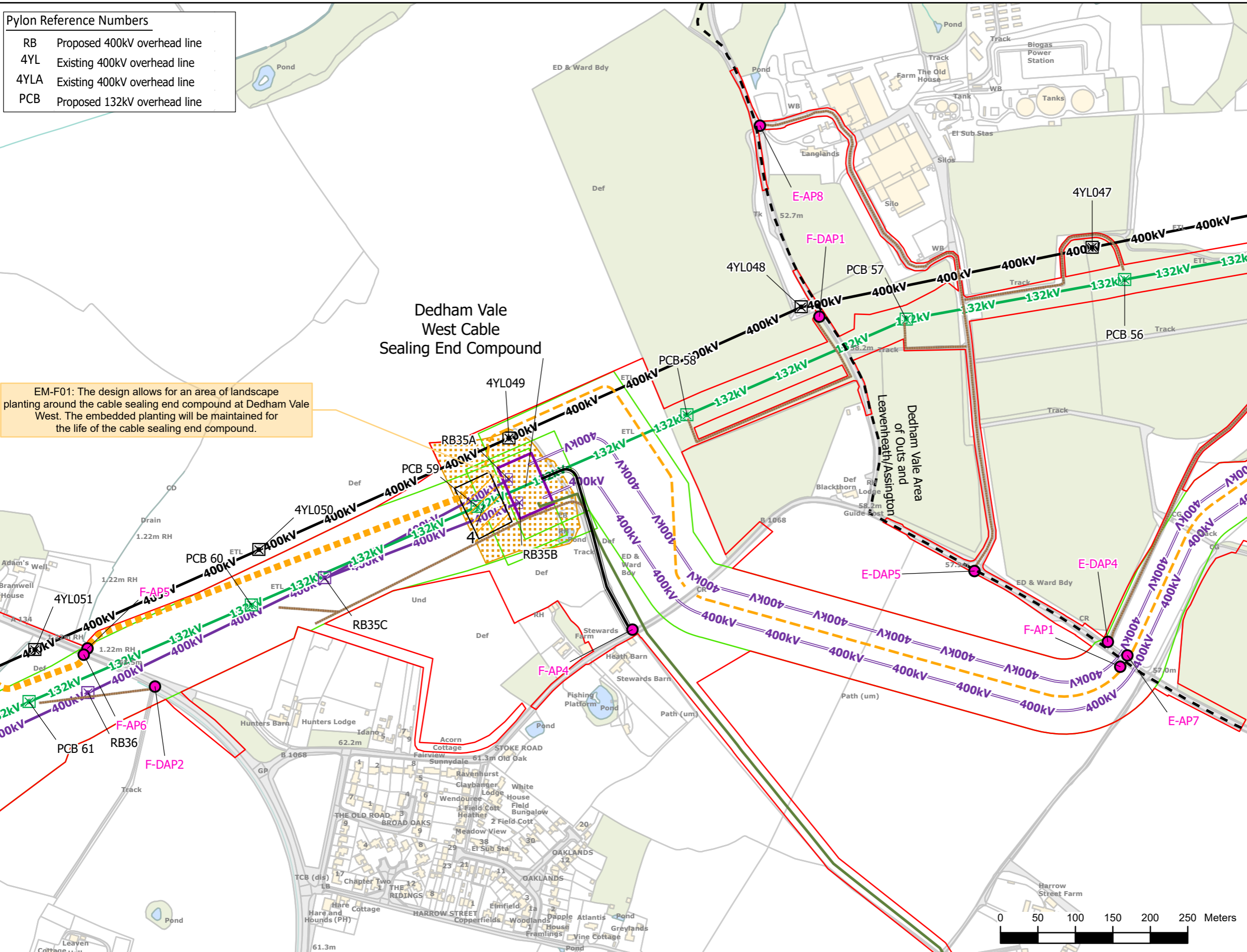
**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route with 4m soil storage
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

EM-F01: The design allows for an area of landscape planting around the cable sealing end compound at Dedham Vale West. The embedded planting will be maintained for the life of the cable sealing end compound.



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**nationalgrid**

TITLE: Figure 4.1 The Project

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

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_4\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0072 SHEET NO. 15 NO. OF SHEETS 30 ISSUE: A





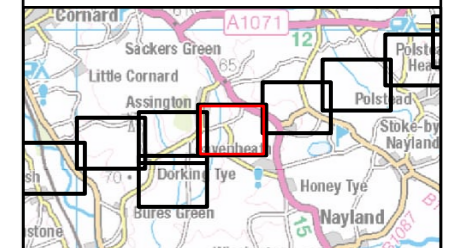


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Pylon Reference Numbers	
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

Legend			
—	Section boundaries	—	Proposed grid supply point substation (GSP)
—	Order Limits	—	Proposed power connection
—	Limits of deviation	—	Permanent access route
⊗	Proposed pylon	—	Assumed horizontal directional drilling pits
⊗	Proposed gantry	—	Temporary construction compound
⊗	Existing pylon	—	Embedded planting
⊗	Existing gantry	—	Trenchless crossings
⊗	Proposed pylon realignment	—	Temporary access route
⊗	Proposed pylon removal	—	Use of existing track or trackway protection
⊗	Proposed gantry realignment	—	4m access route with 4m soil storage
—	Proposed overhead line	—	7m access route
—	Existing overhead line	—	7m access route with 4m soil storage
—	Proposed modification to overhead line	●	Access points
—	Proposed realignment of existing overhead line	+	Access route crossings
—	Proposed removal of overhead line	+	Temporary bridges
—	Proposed underground cable	—	Underground cable watercourse crossings
—	Cable sealing end compound	▲	Trenchless crossing
		○	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
 for further details (application document 6.2.4)



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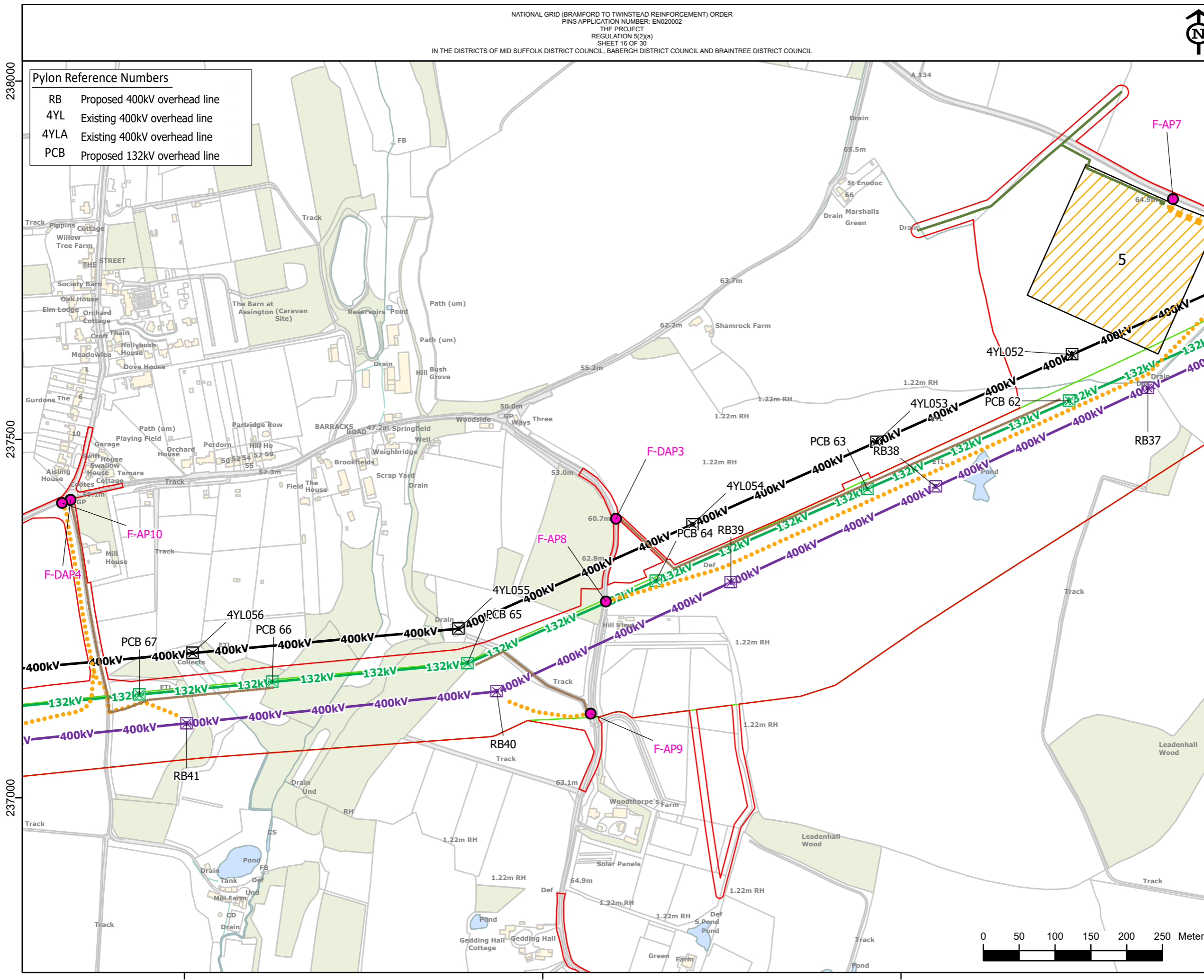
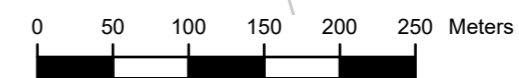
**nationalgrid**

TITLE: Figure 4.1  
The Project

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

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NG DRAWING No. BT-JAC-020631-500-0072 SHEET NO. 16 NO. OF SHEETS 30 ISSUE: A







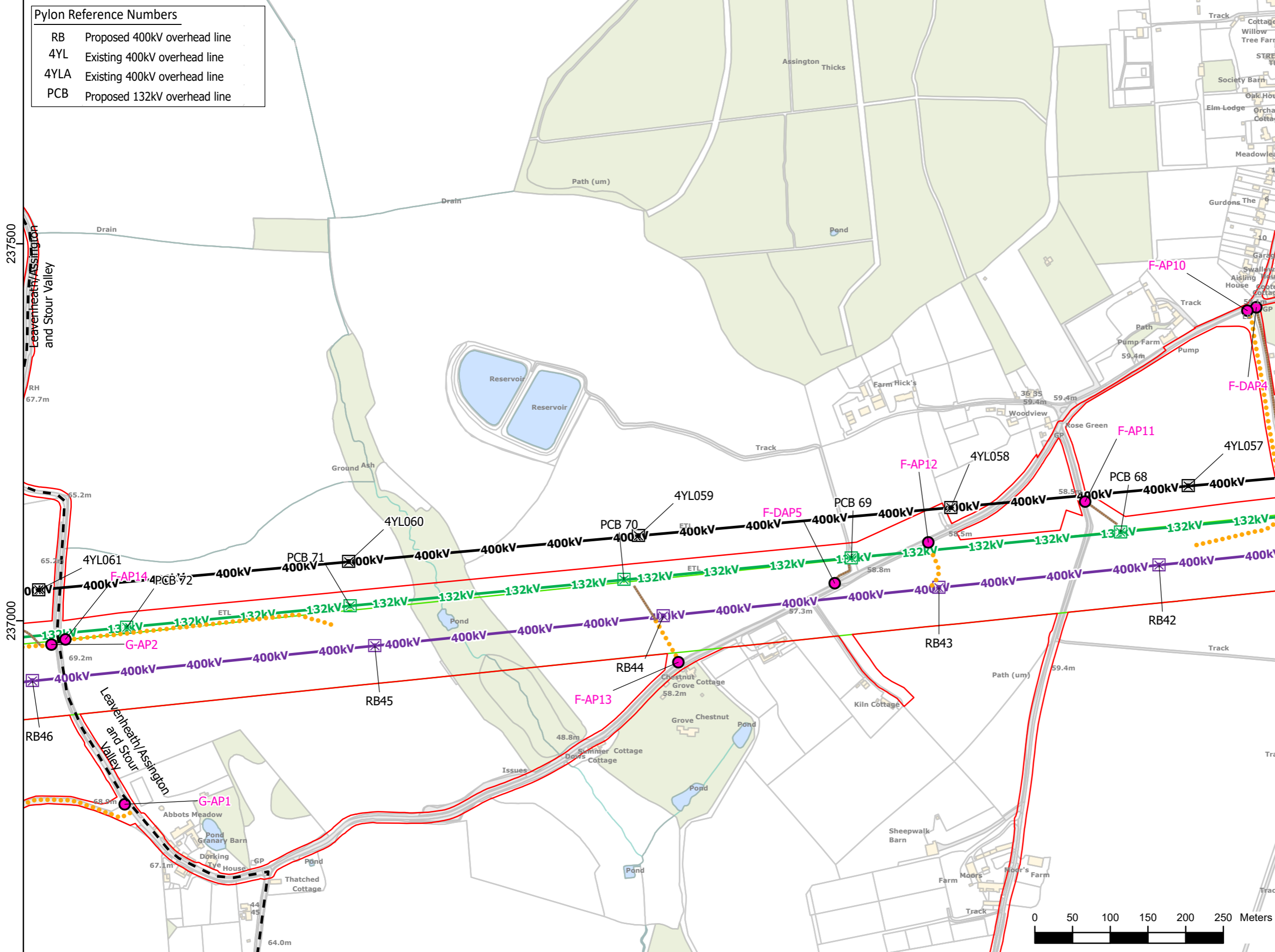
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**Pylon Reference Numbers**

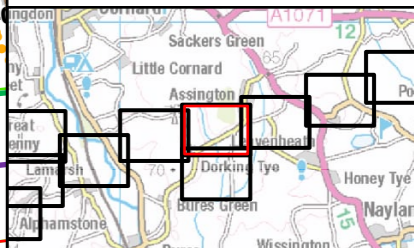
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut



This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. <b>BT-JAC-020631-500-0072</b>	SHEET NO. <b>17</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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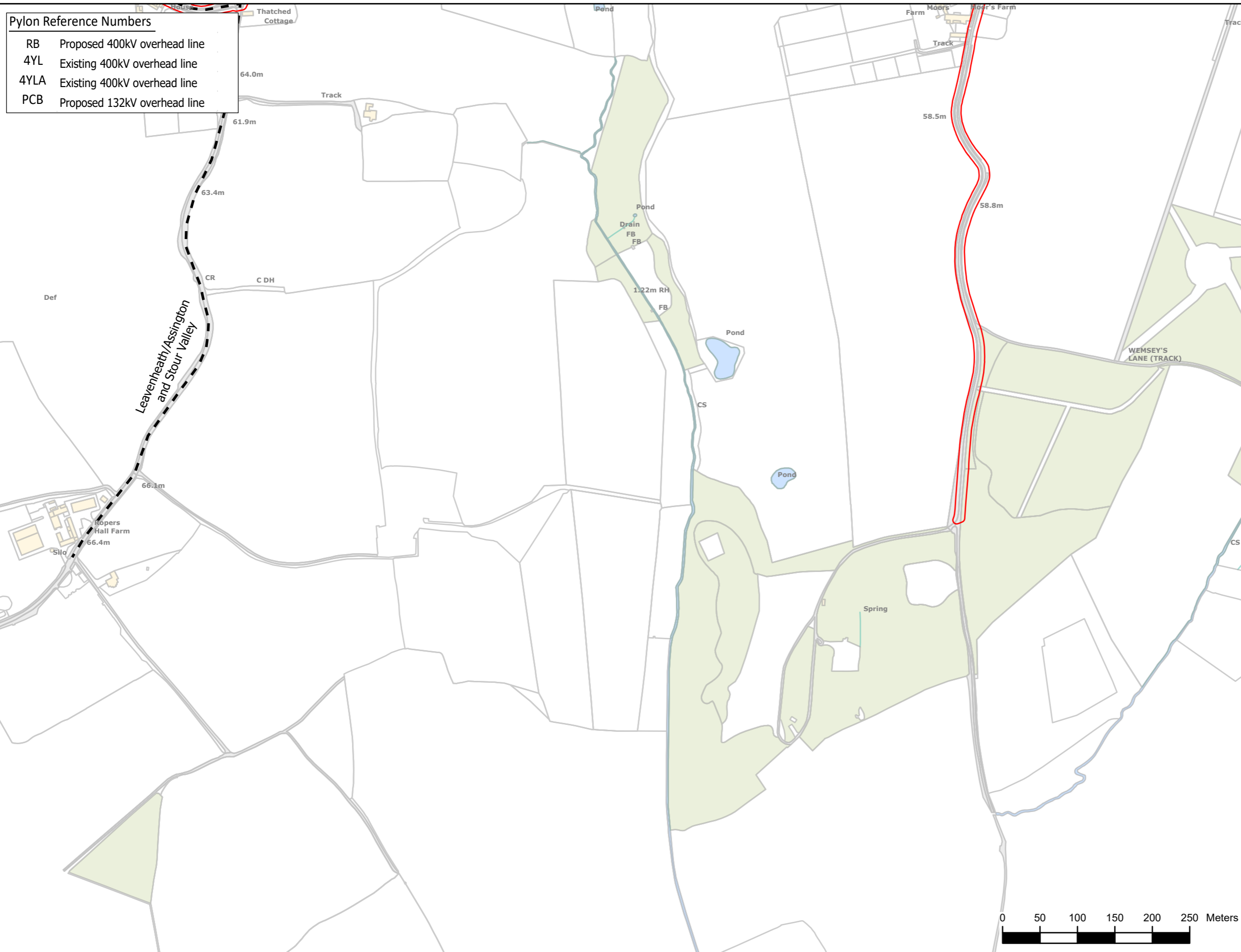




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**Pylon Reference Numbers**

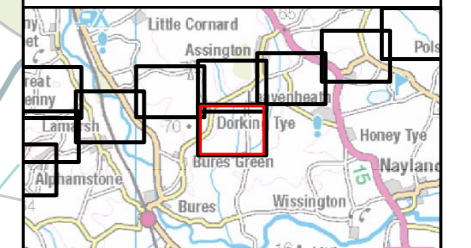
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line



**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
 for further details (application document 6.2.4)



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TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** A3

NG DRAWING No. **BT-JAC-020631-500-0072** SHEET NO. **18** NO. OF SHEETS **30** ISSUE: **A**



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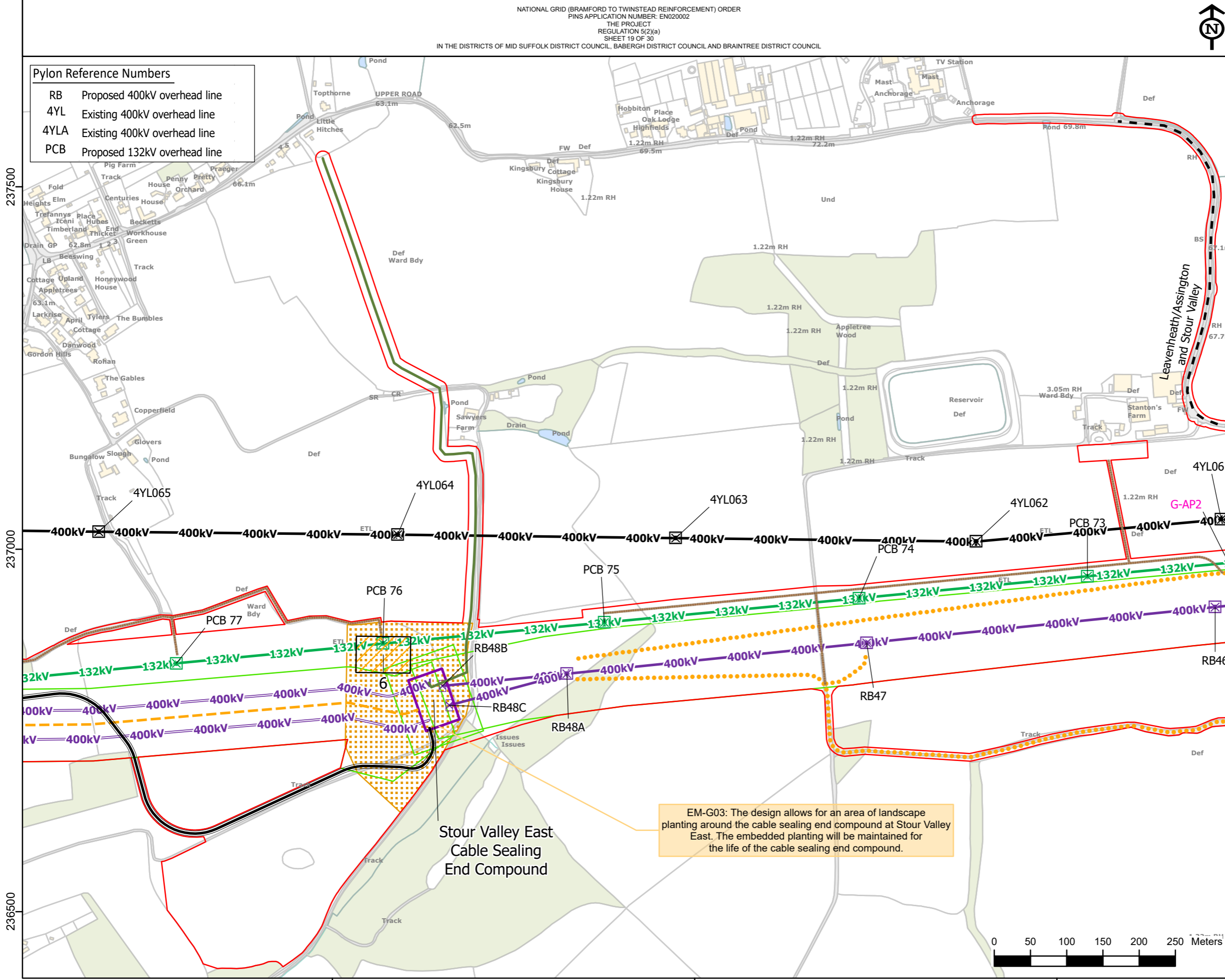
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**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

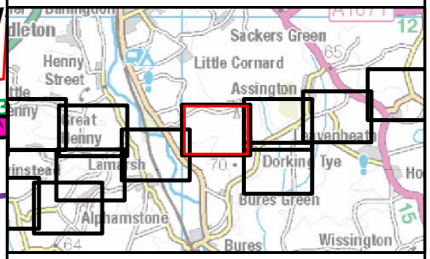
**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon realignment	Temporary access route
Proposed pylon removal	Use of existing track or trackway protection
Proposed gantry realignment	4m access route with 4m soil storage
Proposed overhead line	7m access route
Existing overhead line	7m access route with 4m soil storage
Proposed modification to overhead line	Access points
Proposed realignment of existing overhead line	Access route crossings
Proposed removal of overhead line	Temporary bridges
Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut



EM-G03: The design allows for an area of landscape planting around the cable sealing end compound at Stour Valley East. The embedded planting will be maintained for the life of the cable sealing end compound.

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
 for further details (application document 6.2.4)



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TITLE: Figure 4.1 The Project

CIRCUIT / SITE: Bramford – Pelham & Bramford – Braintree – Bulls Lodge	GIS
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ORIGINATOR DRAWING NO. AAA_BTT_Figure_4_1_Rev0	A3
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NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. 19	NO. OF SHEETS 30	ISSUE: A
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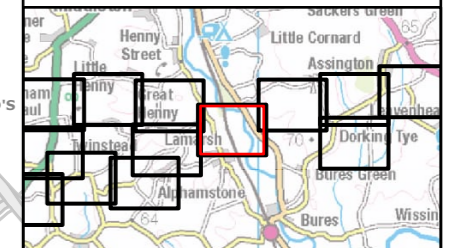
**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon realignment	Temporary access route
Proposed pylon removal	Use of existing track or trackway protection
Proposed gantry realignment	4m access route with 4m soil storage
Proposed overhead line	7m access route
Existing overhead line	7m access route with 4m soil storage
Proposed modification to overhead line	Access points
Proposed realignment of existing overhead line	Access route crossings
Proposed removal of overhead line	Temporary bridges
Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut

This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

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TITLE: **Figure 4.1 The Project**

CIRCUIT / SITE : Bramford – Pelham & Bramford – Braintree – Bulls Lodge		GIS
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NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. 20	NO. OF SHEETS 30
SCALE: 1:5000	ISSUE: A	



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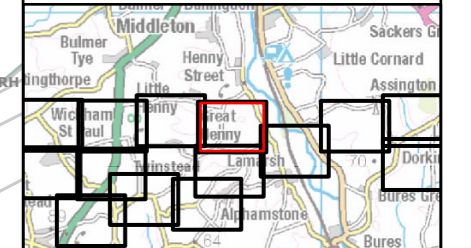
**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
 for further details (application document 6.2.4)



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A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: **Bramford to Twinstead Reinforcement**

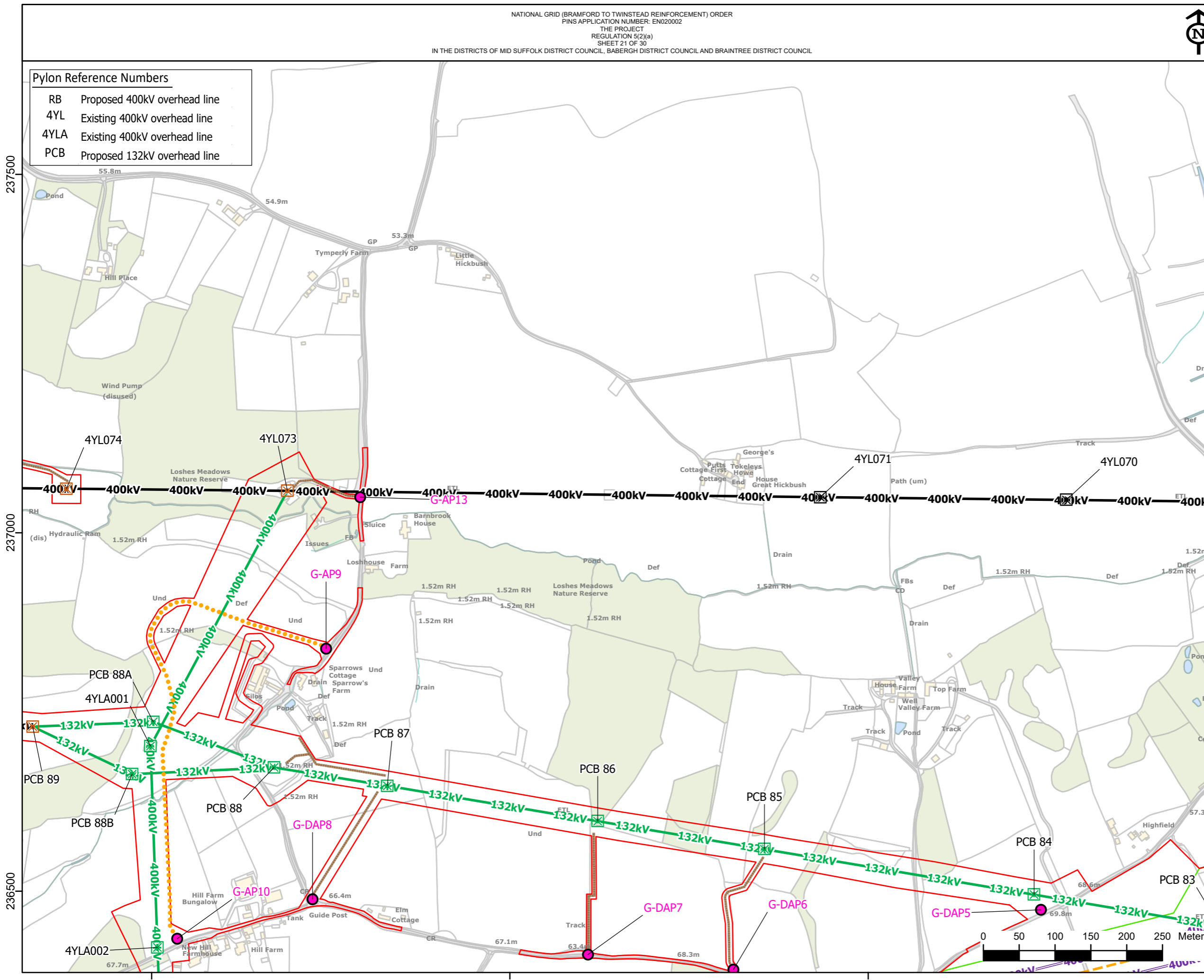
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TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** **A3**

NG DRAWING No. **BT-JAC-020631-500-0072** SHEET NO. **21** NO. OF SHEETS **30** ISSUE: **A**











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**Pylon Reference Numbers**

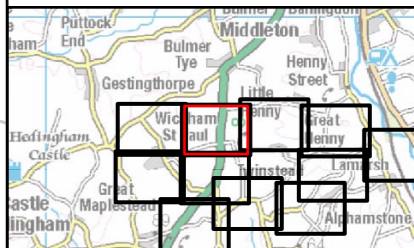
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

EM-H02: Landscape planting has been proposed to the east and west of the grid supply point substation. This will be maintained for the life of the grid supply point substation.

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
Proposed modification to overhead line	Access route crossings
Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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A	04/2023	Rev A for DCO Application	PM	LJ	CW
ISSUE	DATE	REMARKS	DRWN	CHKD	APPD

PROJECT: Bramford to Twinstead Reinforcement

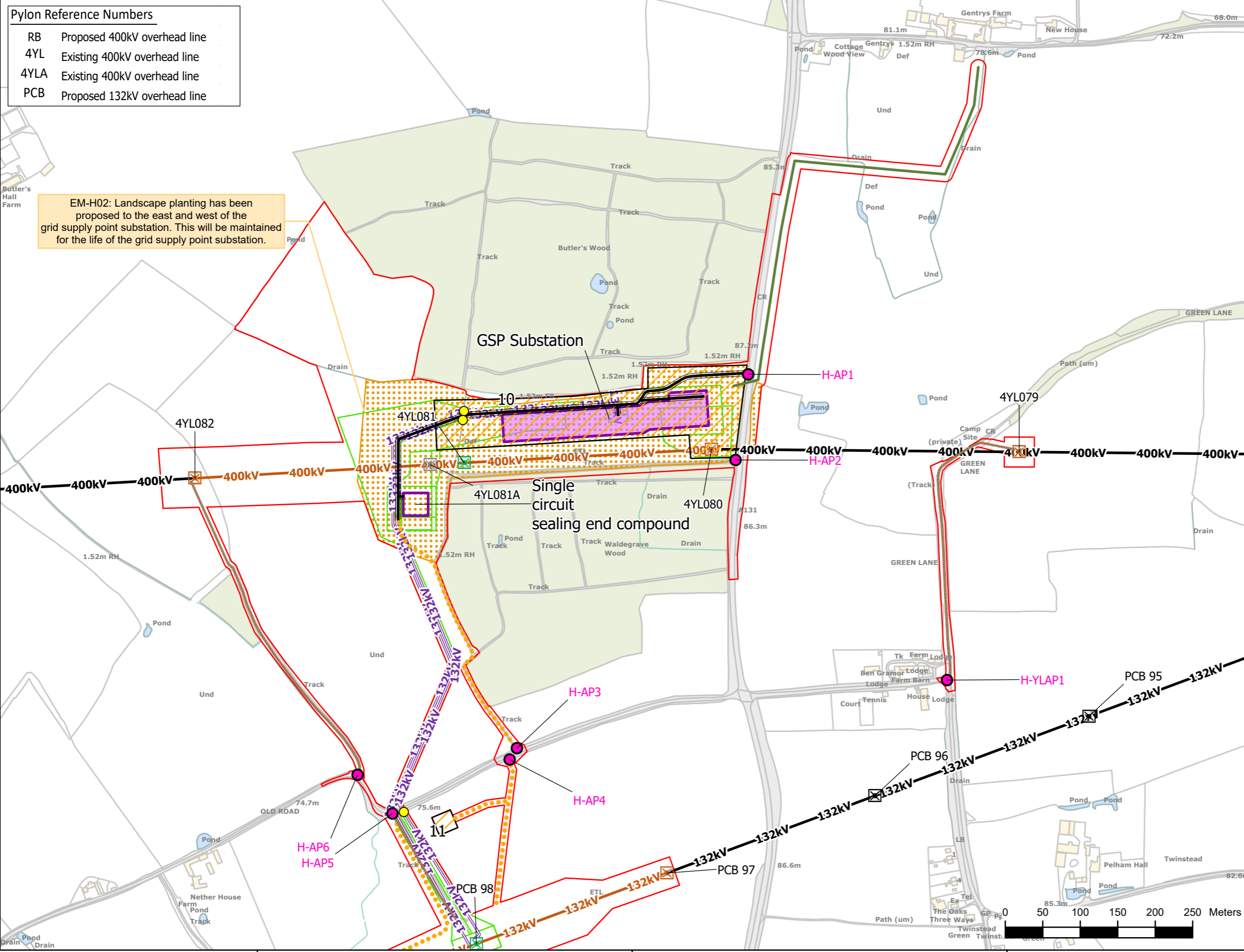


TITLE: Figure 4.1 The Project

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

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_4\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. 23	NO. OF SHEETS 30	ISSUE: A
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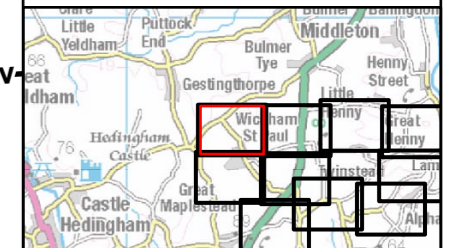
**Pylon Reference Numbers**

RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line

**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed gantry realignment	4m access route with 4m soil storage
Proposed overhead line	7m access route
Existing overhead line	7m access route with 4m soil storage
Proposed modification to overhead line	Access points
Proposed realignment of existing overhead line	Access route crossings
Proposed removal of overhead line	Temporary bridges
Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut

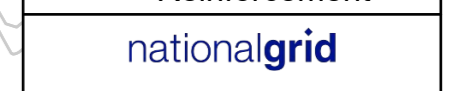
This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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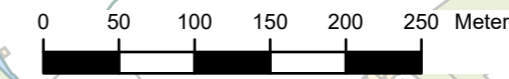
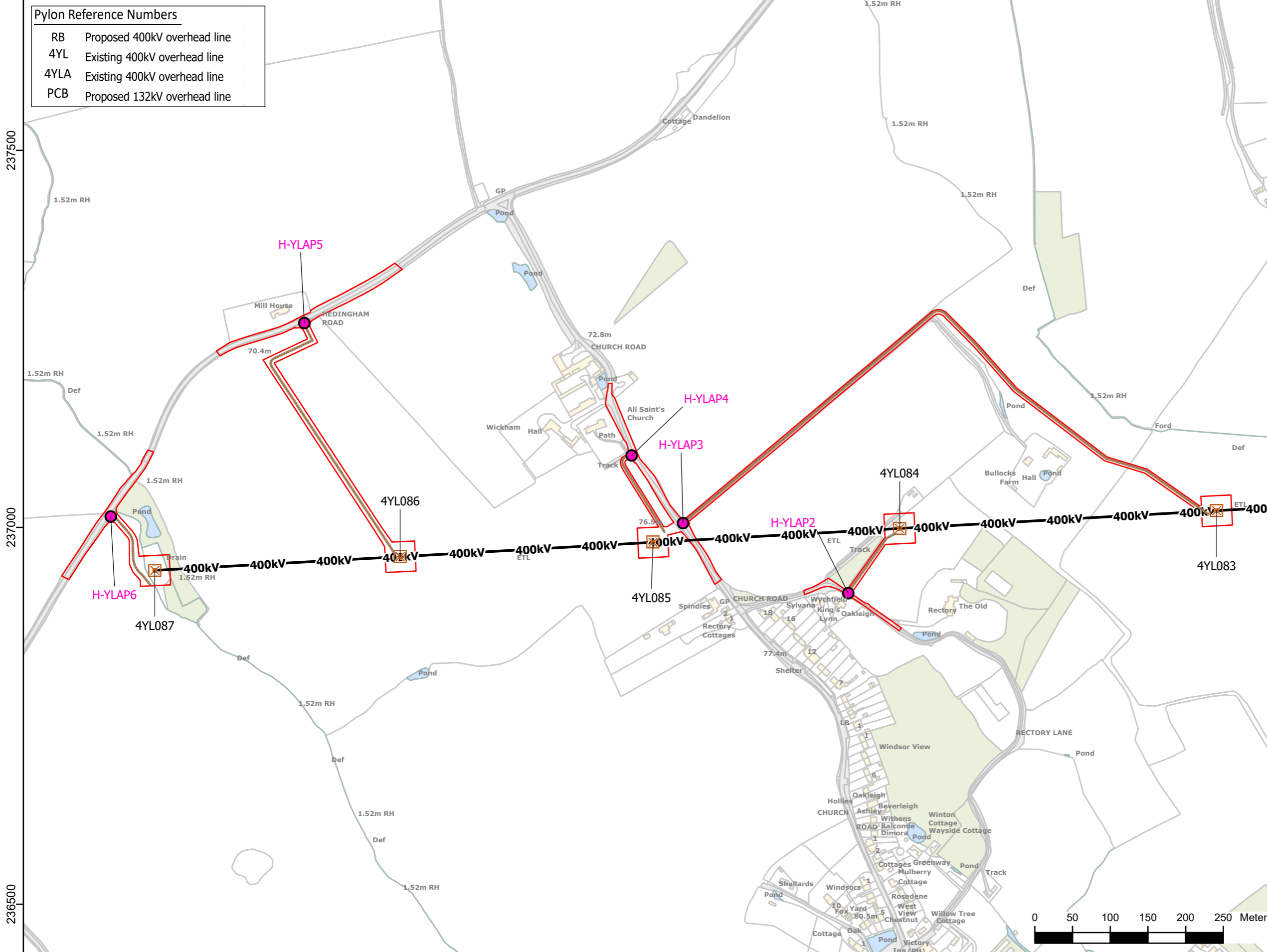
TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0**

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. <b>24</b>	NO. OF SHEETS <b>30</b>	ISSUE: <b>A</b>
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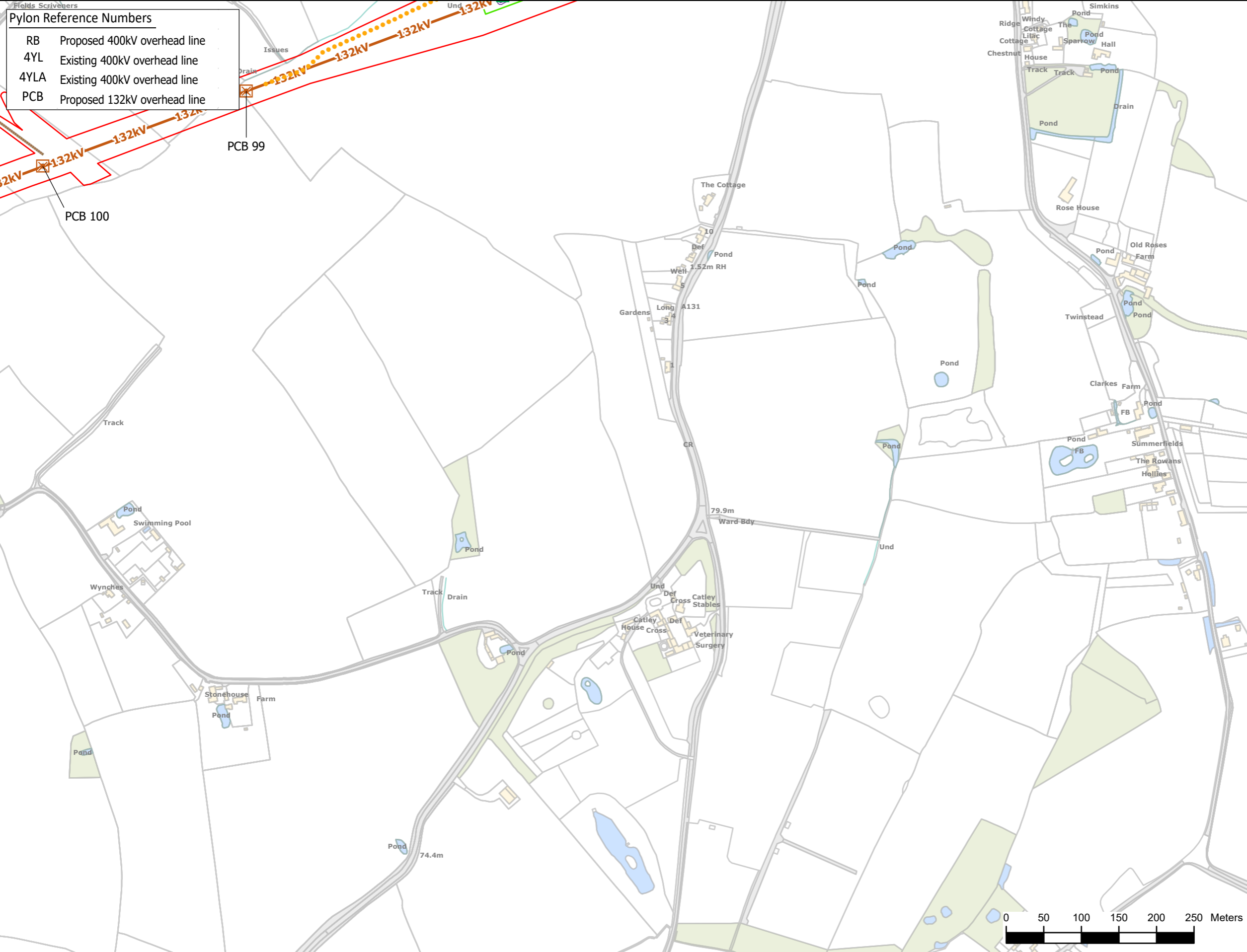




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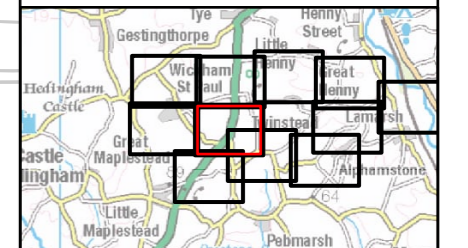
Pylon Reference Numbers	
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line



Legend

■ Section boundaries	■ Proposed grid supply point substation (GSP)
▭ Order Limits	— Proposed power connection
▭ Limits of deviation	— Permanent access route
⊗ Proposed pylon	▭ Assumed horizontal directional drilling pits
⊗ Proposed gantry	▭ Temporary construction compound
⊗ Existing pylon	⊕ Embedded planting
⊗ Existing gantry	▭ Trenchless crossings
⊗ Proposed pylon modification works	— Temporary access route
⊗ Proposed pylon realignment	— Use of existing track or trackway protection
⊗ Proposed pylon removal	— 4m access route with 4m soil storage
⊗ Proposed gantry realignment	— 4m access route with 4m soil storage
— Proposed overhead line	— 7m access route
— Existing overhead line	— 7m access route with 4m soil storage
— Proposed modification to overhead line	● Access points
— Proposed realignment of existing overhead line	— Access route crossings
— Proposed removal of overhead line	⊕ Temporary bridges
— Proposed underground cable	— Underground cable watercourse crossings
▭ Cable sealing end compound	▲ Trenchless crossing
	● Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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PROJECT: **Bramford to Twinstead Reinforcement**

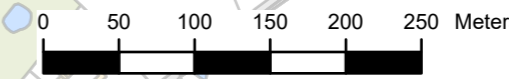


TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** A3

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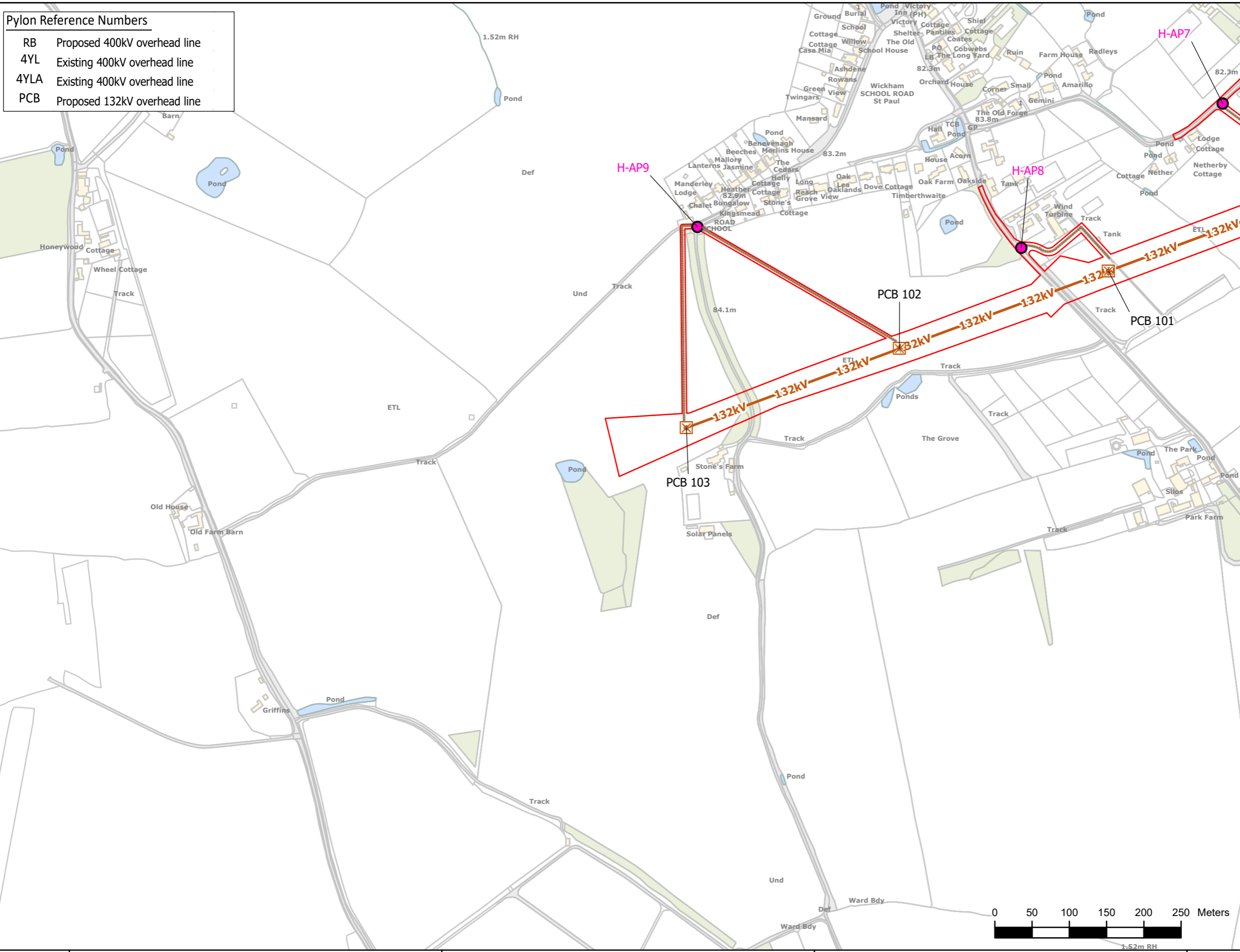




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**Pylon Reference Numbers**

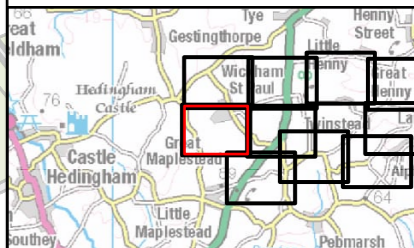
RB	Proposed 400kV overhead line
4YL	Existing 400kV overhead line
4YLA	Existing 400kV overhead line
PCB	Proposed 132kV overhead line



**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
Order Limits	Proposed power connection
Limits of deviation	Permanent access route
Proposed pylon	Assumed horizontal directional drilling pits
Proposed gantry	Temporary construction compound
Existing pylon	Embedded planting
Existing gantry	Trenchless crossings
Proposed pylon modification works	Temporary access route
Proposed pylon realignment	Use of existing track or trackway protection
Proposed pylon removal	4m access route with 4m soil storage
Proposed gantry realignment	7m access route with 4m soil storage
Proposed overhead line	7m access route with 4m soil storage
Existing overhead line	Access points
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Proposed realignment of existing overhead line	Temporary bridges
Proposed removal of overhead line	Underground cable watercourse crossings
Proposed underground cable	Trenchless crossing
Cable sealing end compound	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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PROJECT: **Bramford to Twinstead Reinforcement**

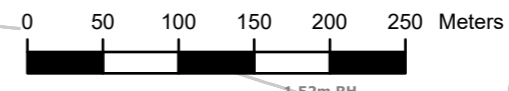


TITLE: **Figure 4.1 The Project**

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

ORIGINATOR DRAWING NO. **AAA\_BTT\_Figure\_4\_1\_Rev0** A3

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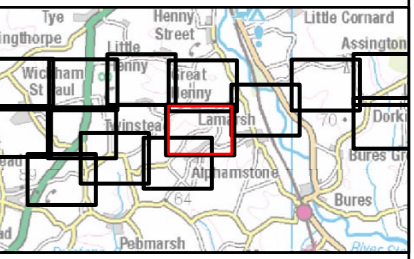
**Pylon Reference Numbers**

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4YLA	Existing 400kV overhead line
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**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
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Proposed overhead line	7m access route
Existing overhead line	7m access route with 4m soil storage
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Proposed realignment of existing overhead line	Access route crossings
Proposed removal of overhead line	Temporary bridges
Proposed underground cable	Underground cable watercourse crossings
Cable sealing end compound	Trenchless crossing
	Open cut

This figure shows the Proposed Alignment  
 See Environmental Statement Chapter 4: Project Description  
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TITLE: **Figure 4.1 The Project**

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

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SCALE: 1:5000



EM-G06: The design allows for an area of landscape planting around the cable sealing end compound at Stour Valley West. The embedded planting will be maintained for the life of the cable sealing end compound.

Stour Valley West Cable Sealing End Compound  
 G-AP14

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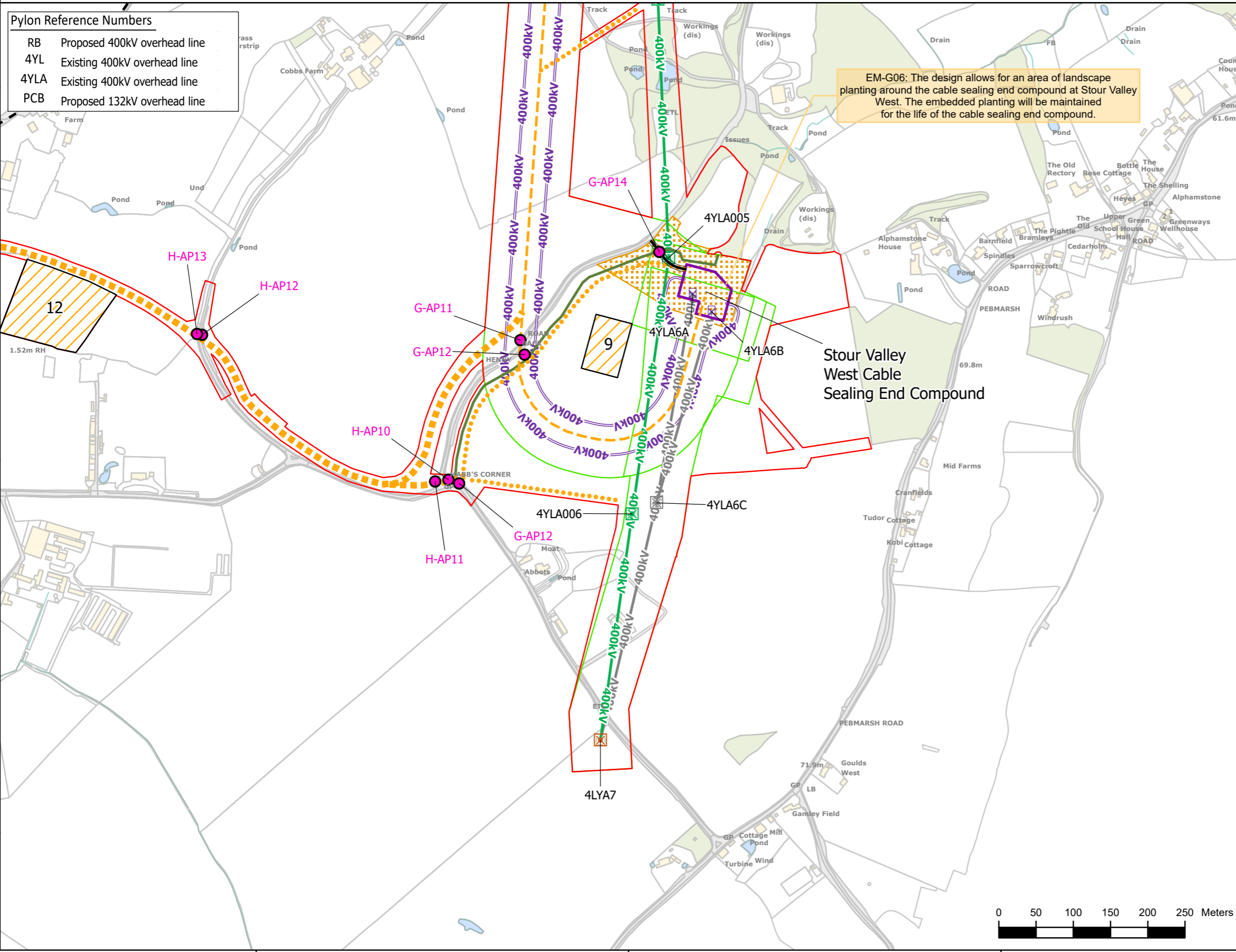


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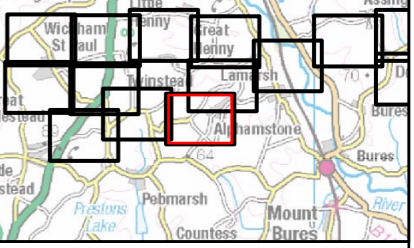
EM-G06: The design allows for an area of landscape planting around the cable sealing end compound at Stour Valley West. The embedded planting will be maintained for the life of the cable sealing end compound.



**Legend**

Section boundaries	Proposed grid supply point substation (GSP)
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Proposed realignment of existing overhead line	Underground cable watercourse crossings
Proposed removal of overhead line	Trenchless crossing
Proposed underground cable	Open cut
Cable sealing end compound	

This figure shows the Proposed Alignment. See Environmental Statement Chapter 4: Project Description for further details (application document 6.2.4)



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PROJECT: Bramford to Twinstead Reinforcement



TITLE: Figure 4.1 The Project

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

ORIGINATOR DRAWING NO. AAA\_BTT\_Figure\_4\_1\_Rev0 A3

NG DRAWING No. BT-JAC-020631-500-0072	SHEET NO. 28	NO. OF SHEETS 30	ISSUE: A
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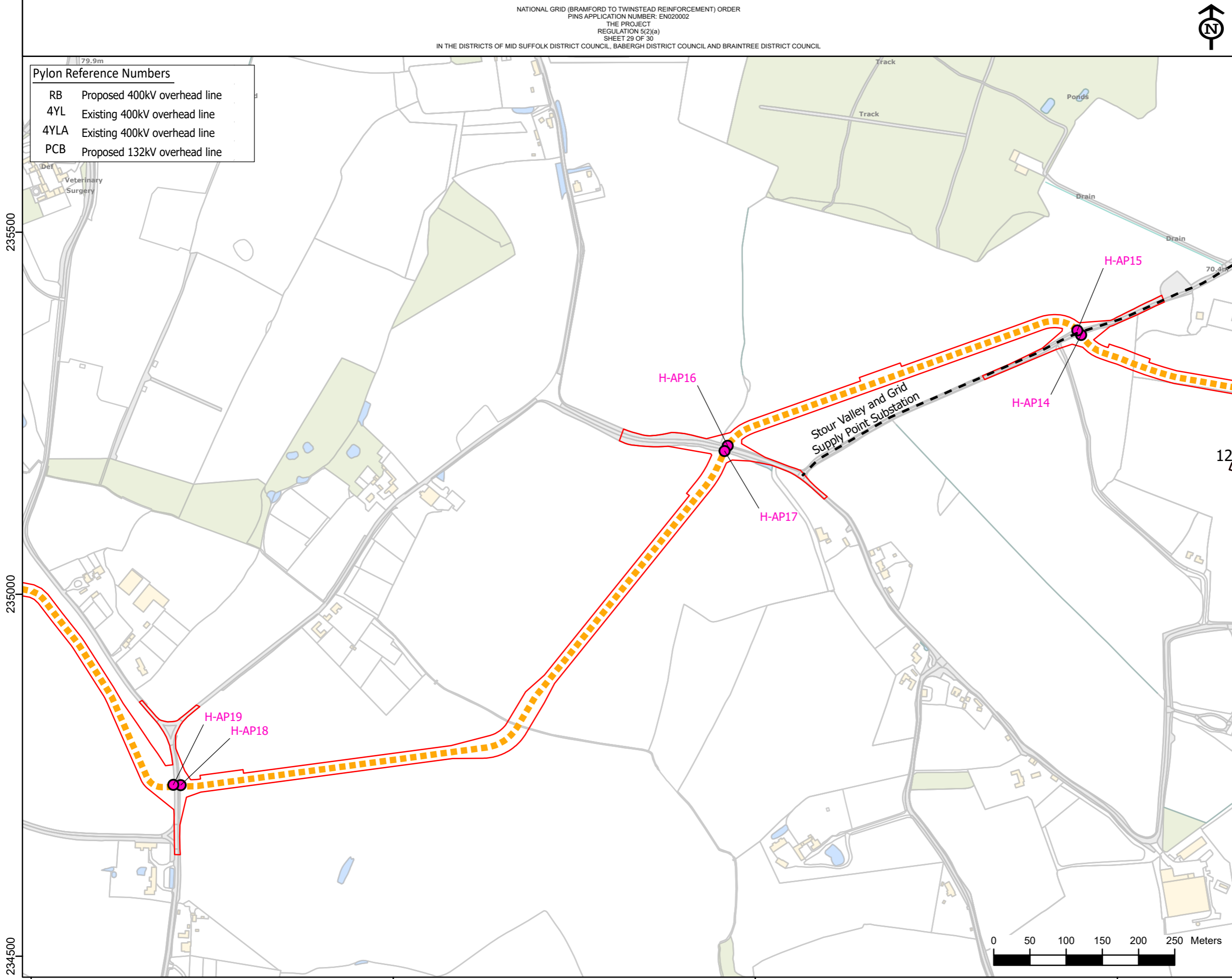
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**Pylon Reference Numbers**

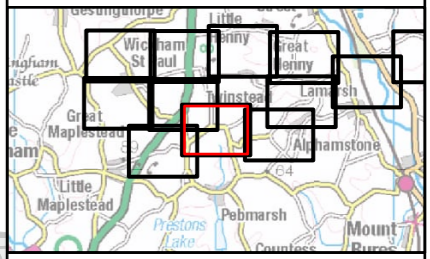
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Cable sealing end compound	Open cut



This figure shows the Proposed Alignment  
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TITLE: **Figure 4.1 The Project**

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

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NG DRAWING No. **BT-JAC-020631-500-0072** SHEET NO. **29** NO. OF SHEETS **30** ISSUE: **A**



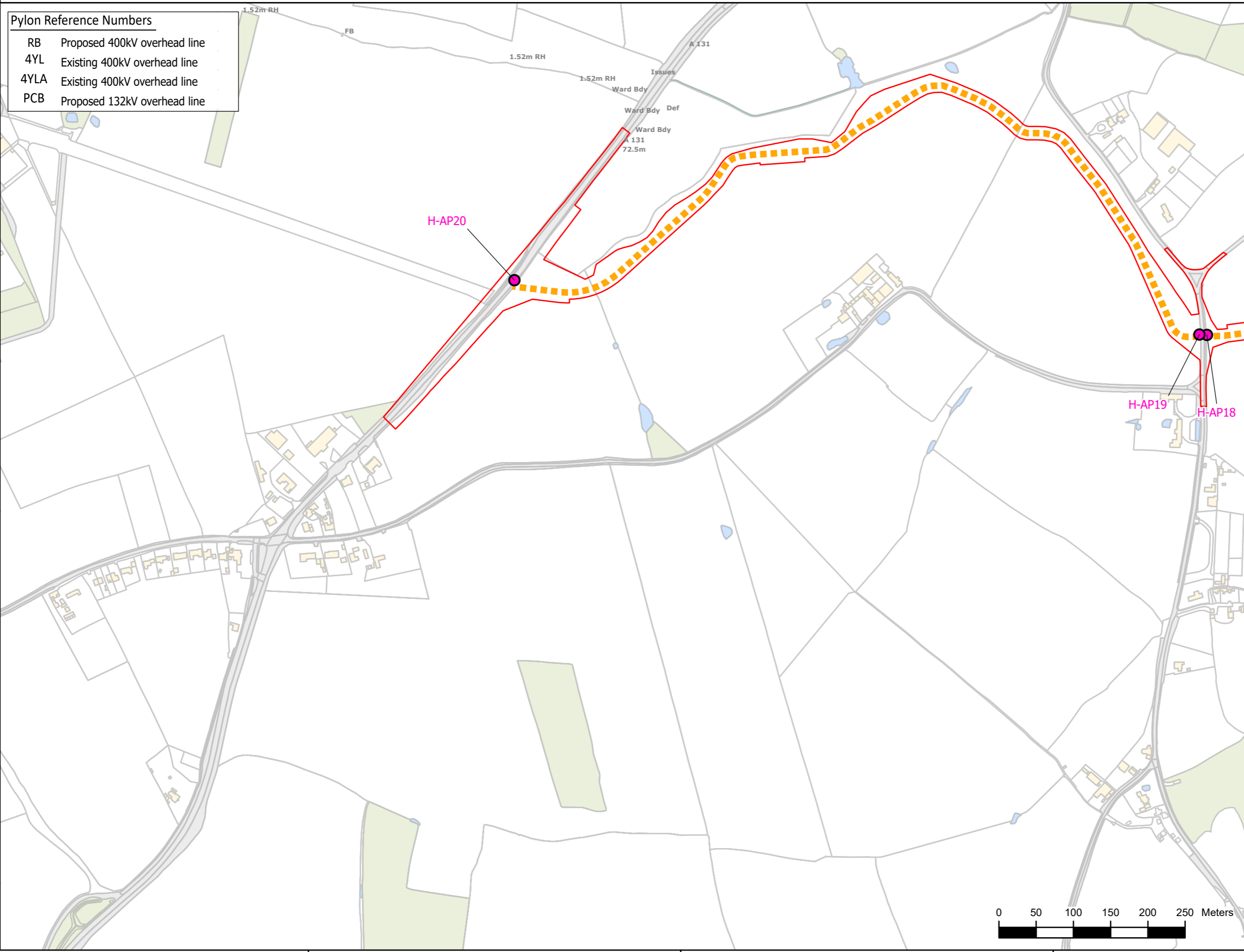




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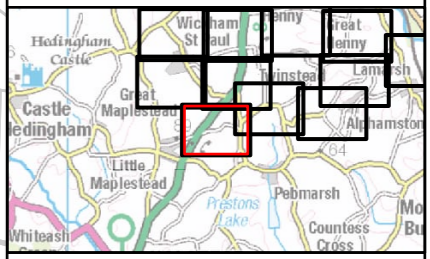
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TITLE: **Figure 4.1 The Project**

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

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