

AENC-ARC-ENV-REP-0155

# Norwich to Tilbury

## Volume 6: Environmental Statement

Document: 6.8.A8 Environmental Statement Appendix 8.8 - Wintering  
and Passage Bird Report - Tracked Changes Version - Part 4 of 4

Final Issue B

July 2026

Planning Inspectorate Reference: EN020027

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

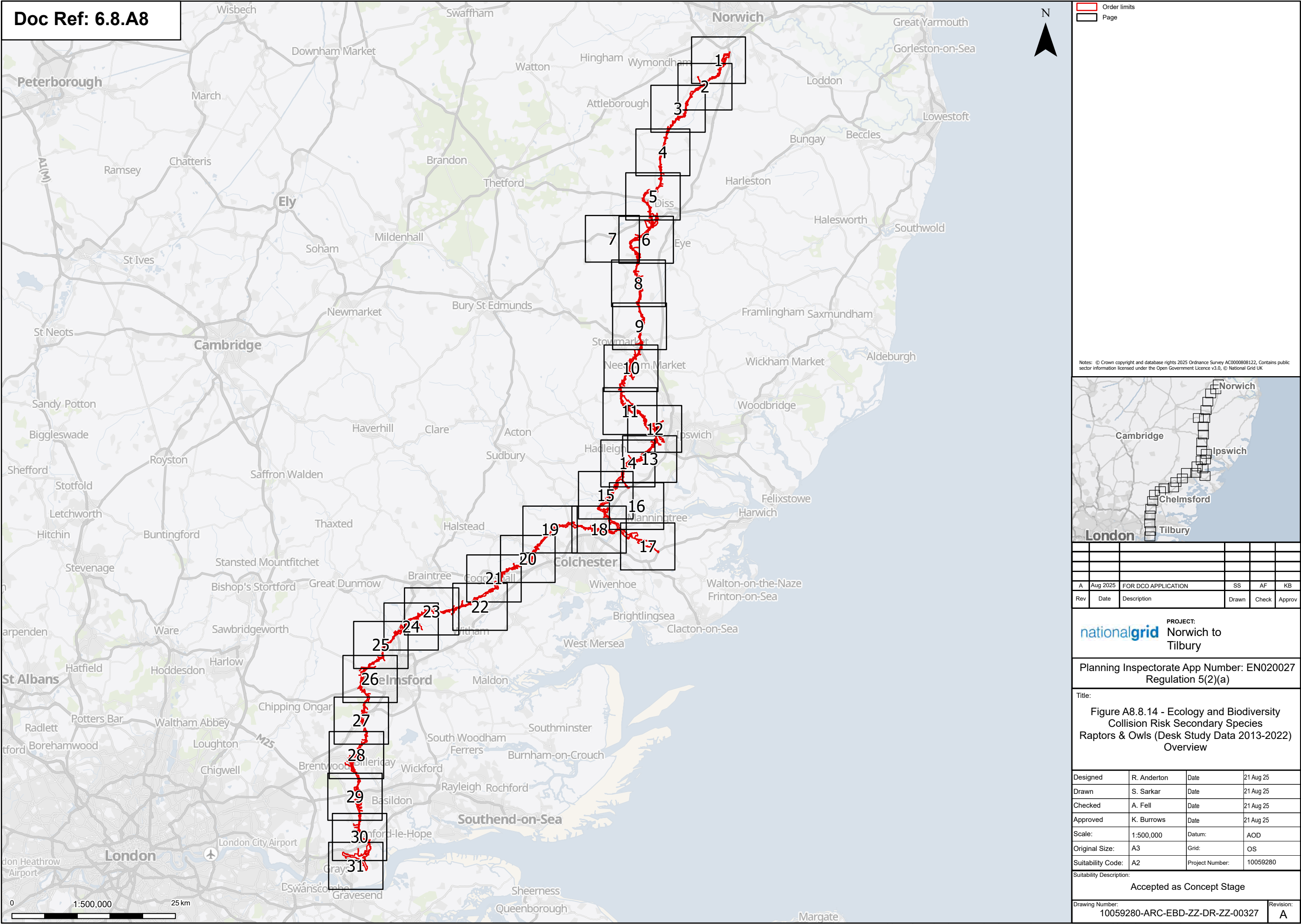
**nationalgrid**

# Appendix A.

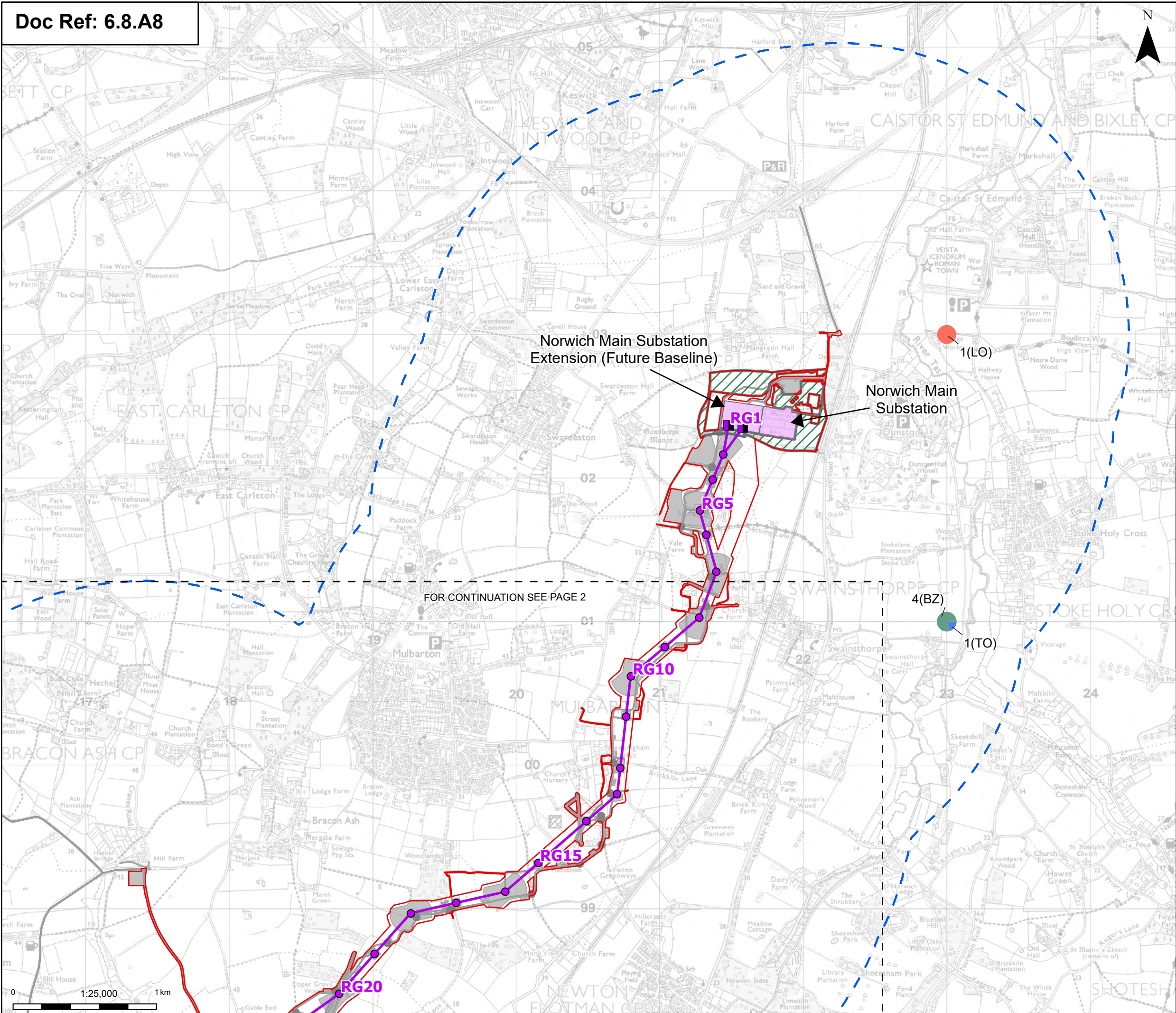
# Figures

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2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Buzzard (BZ)

Kestrel (K)

Little owl (LO)

Sparrowhawk (SH)

Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
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|-------------------|-------------|-----------------|-----------|
| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
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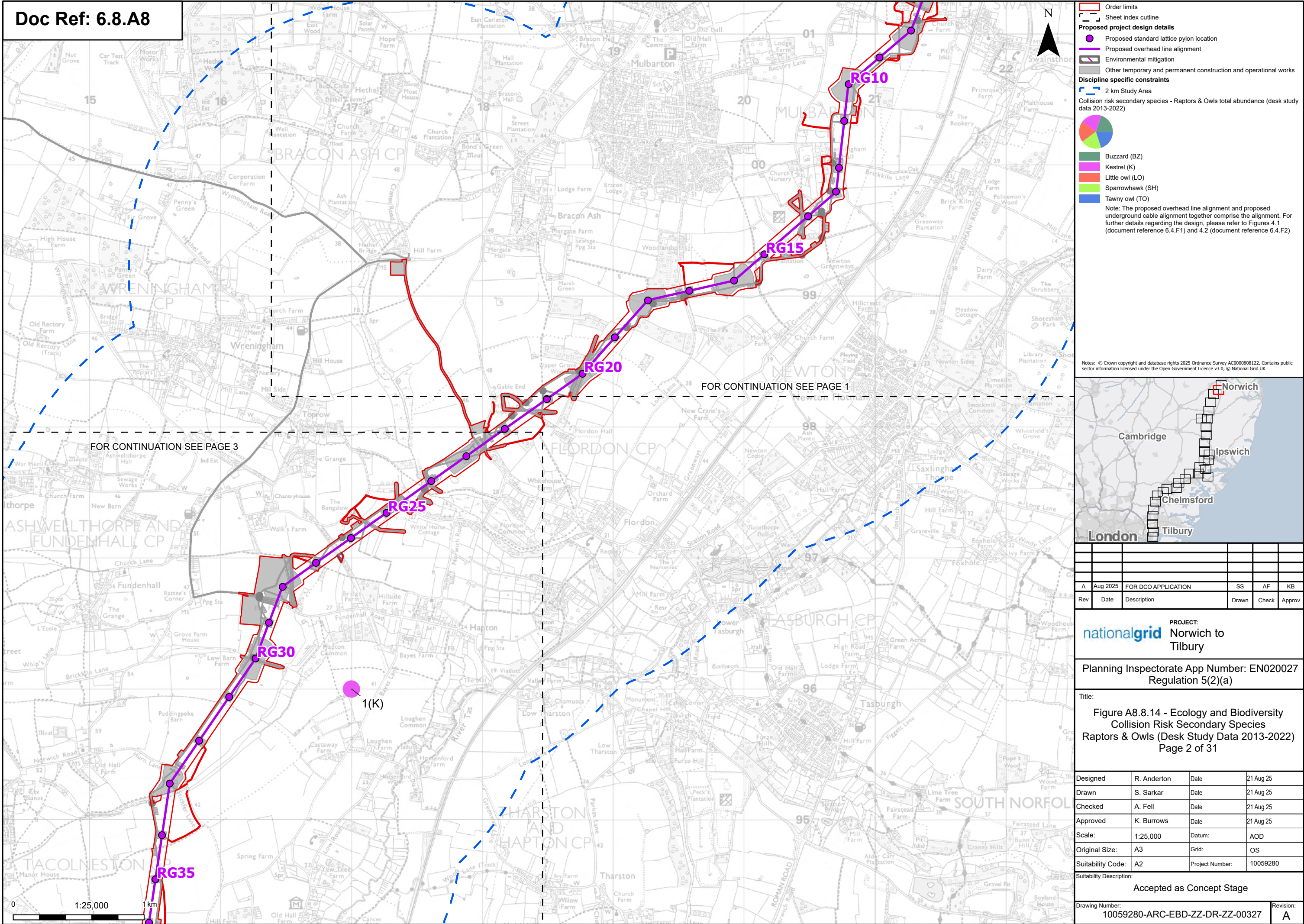
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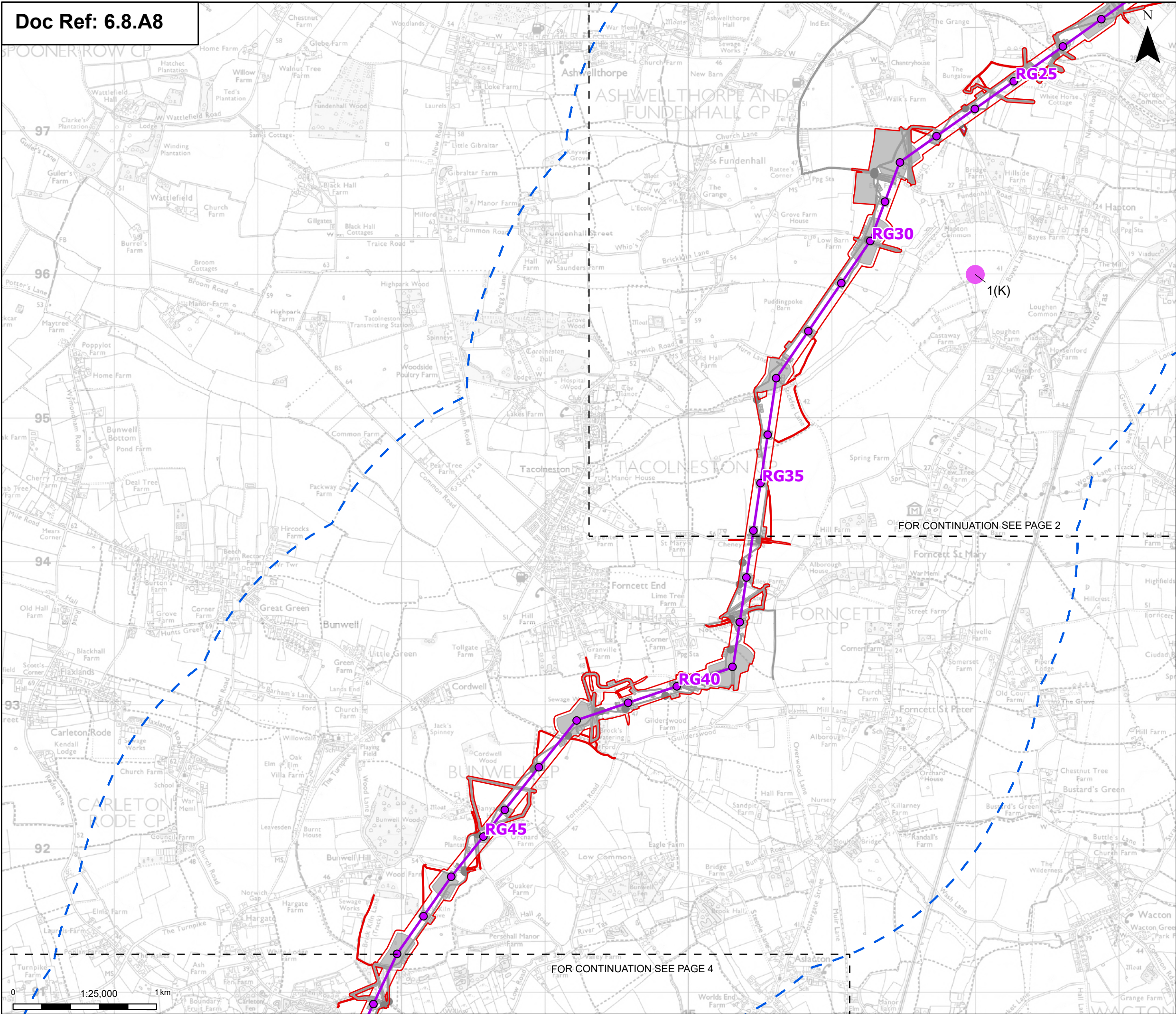
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Order limits

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Proposed project design details

Proposed standard lattice pylon location

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2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Buzzard (BZ)

Kestrel (K)

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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PROJECT:  
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Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.14 - Ecology and Biodiversity

Collision Risk Secondary Species

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2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Buzzard (BZ)

Kestrel (K)

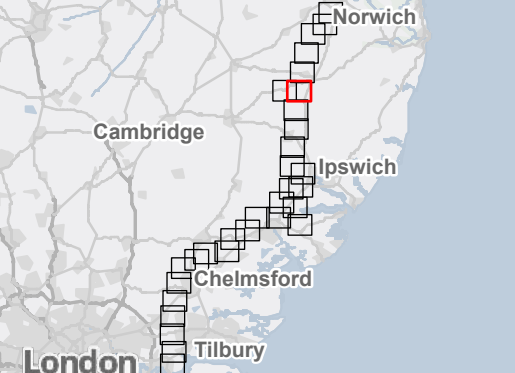
Little owl (LO)

Sparrowhawk (SH)

Tawny owl (TO)

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nationalgrid Norwich to  
Tilbury

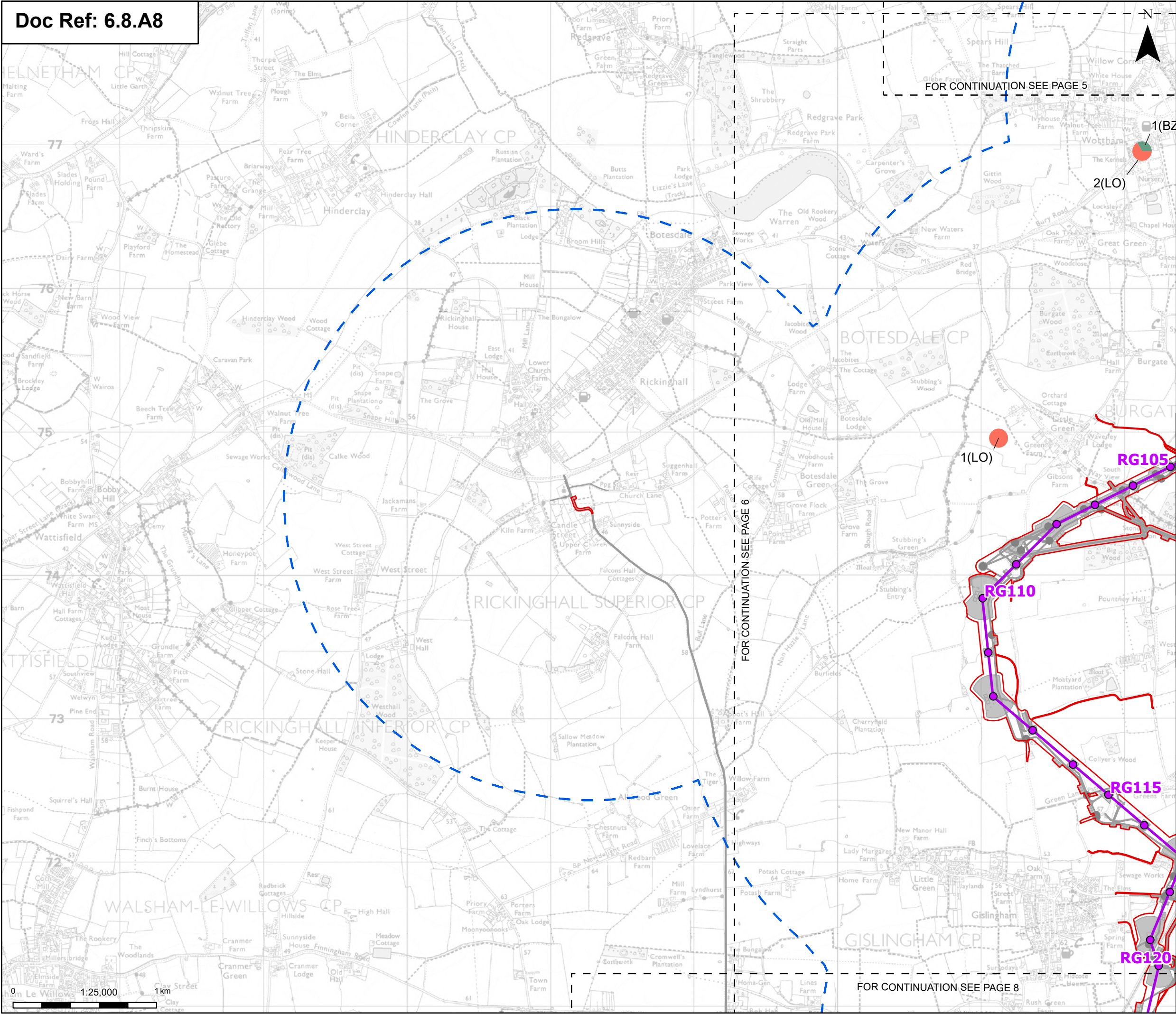
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Figure A8.8.14 - Ecology and Biodiversity  
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A





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Kestrel (K)

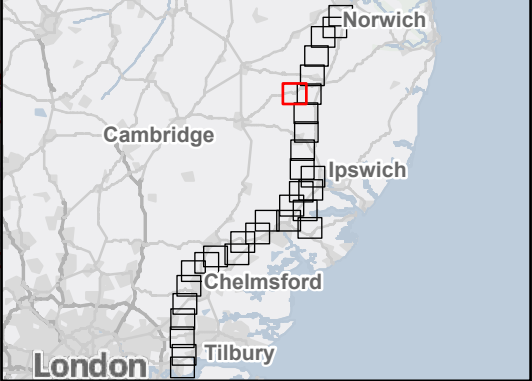
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nationalgrid Norwich to Tilbury

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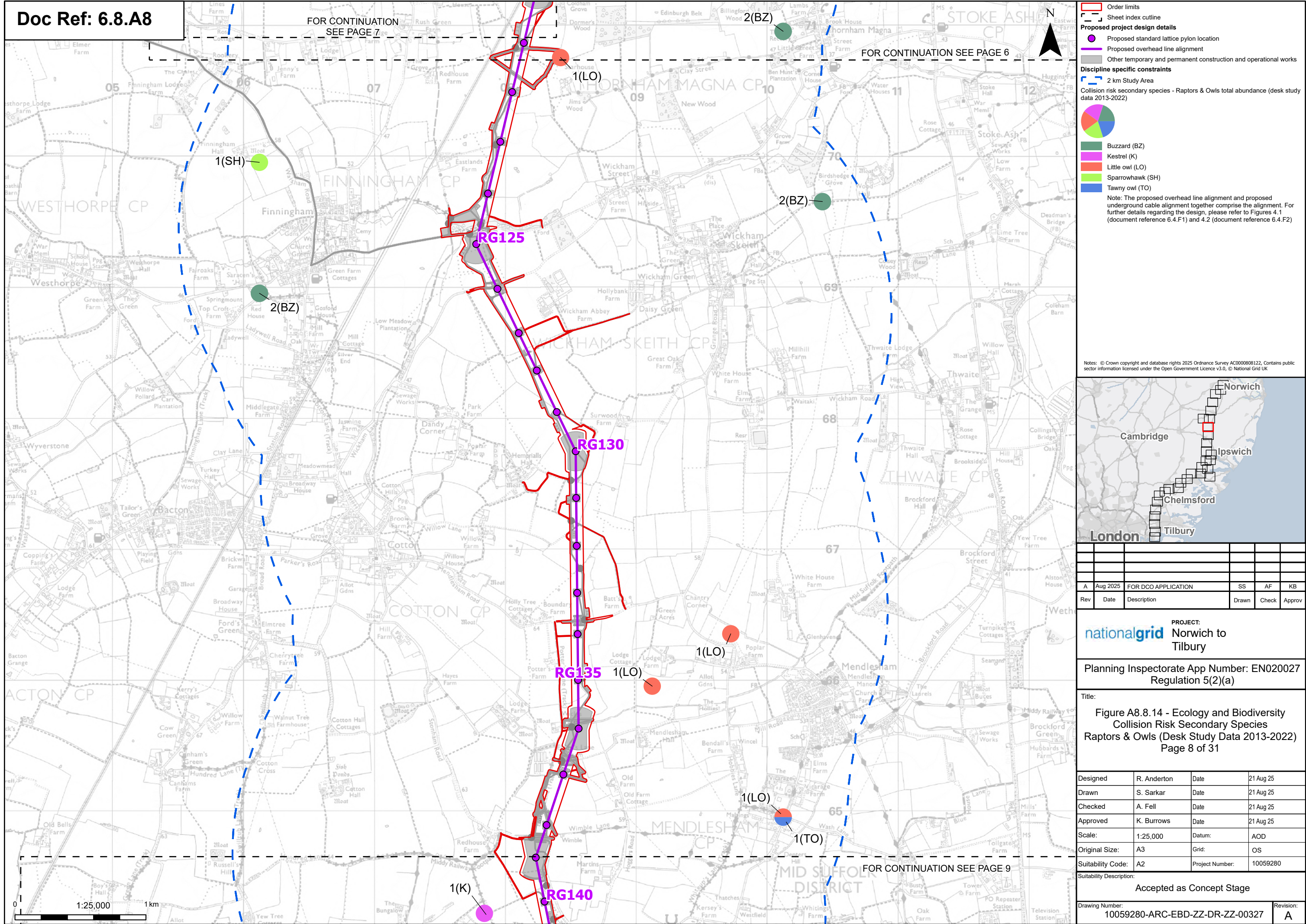
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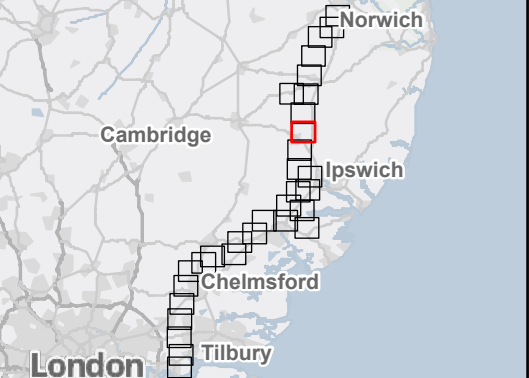
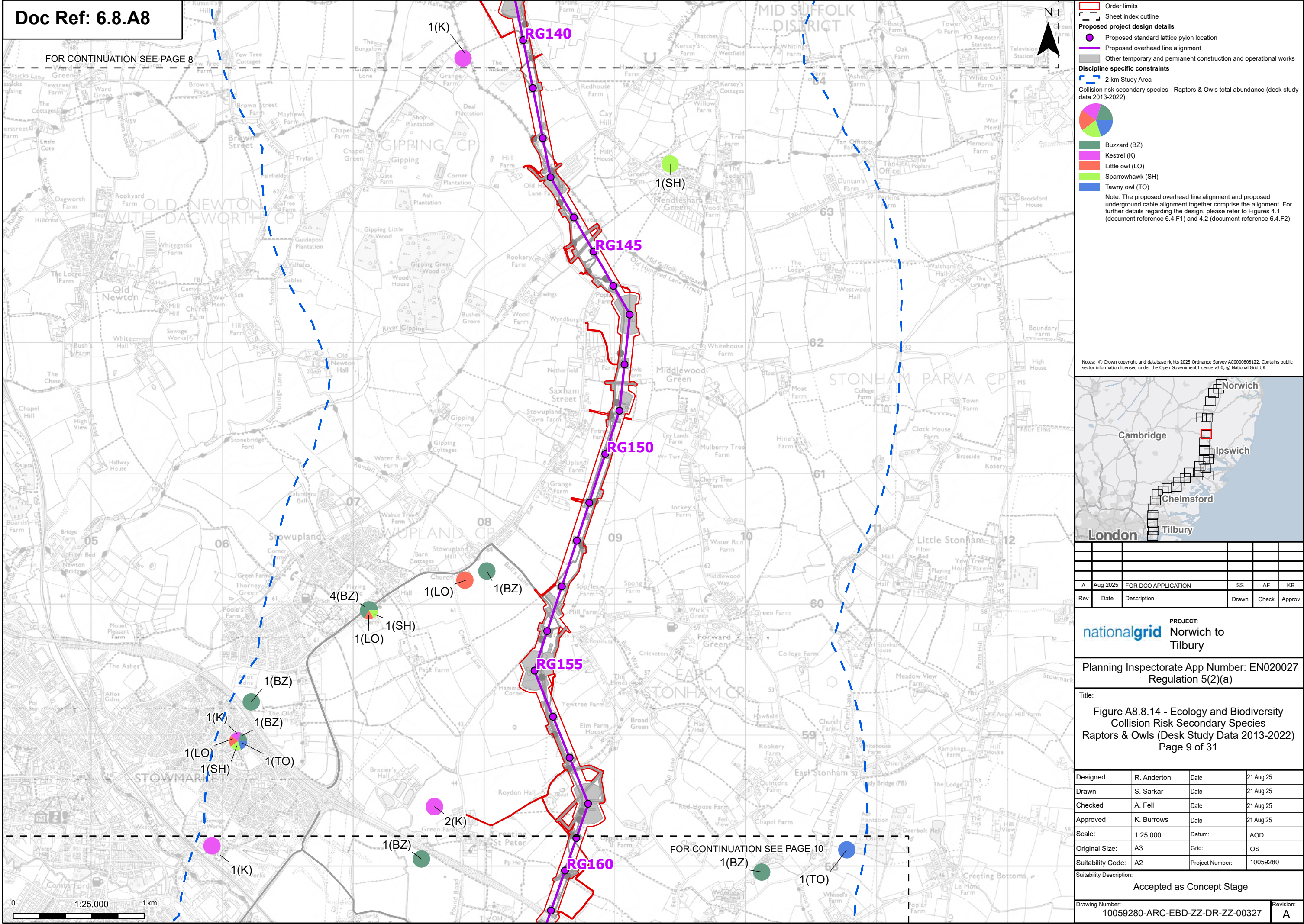
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PROJECT:  
Norwich to  
Tilbury

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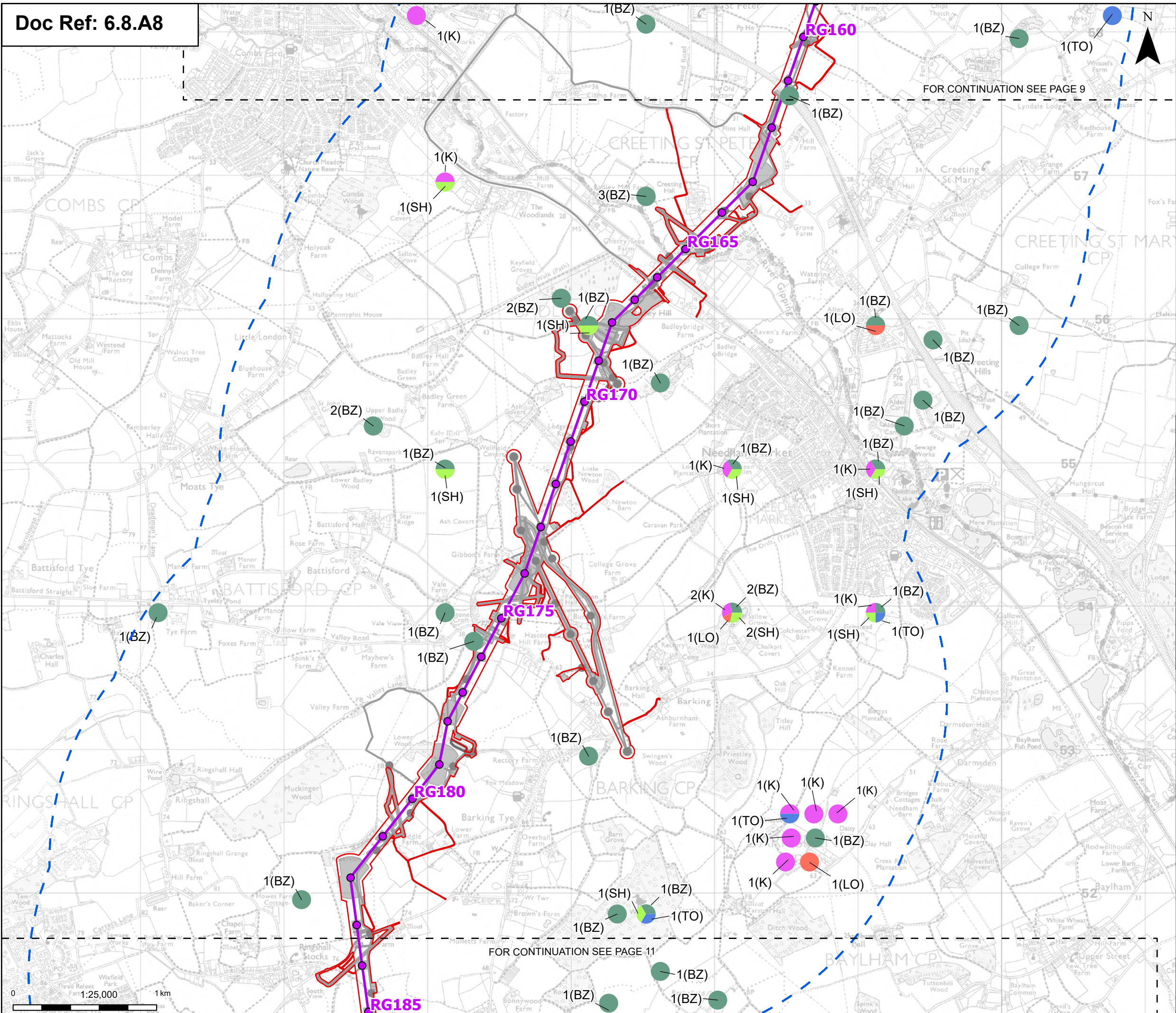
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Order limits

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**Proposed project design details**

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

- Buzzard (BZ)
- Kestrel (K)
- Little owl (LO)
- Sparrowhawk (SH)
- Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:

**nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:

Figure A8.8.14 - Ecology and Biodiversity  
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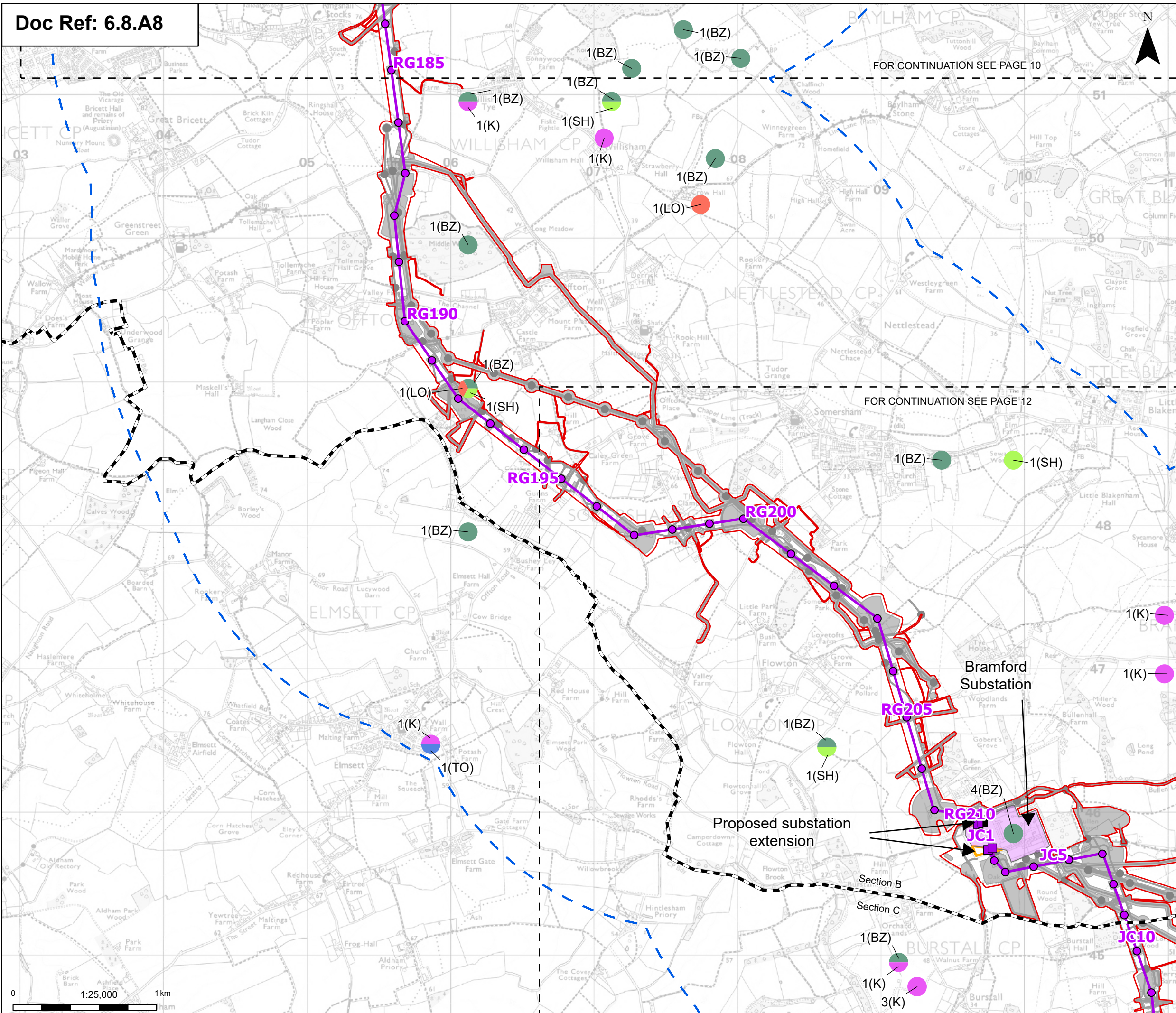
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Revision:

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Project section line

**Proposed project design details**

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Bramford Substation
- Bramford Substation Extension
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

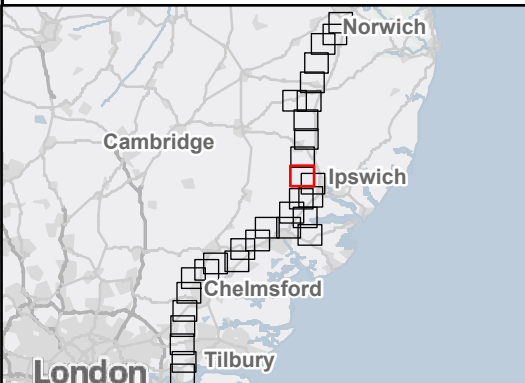
Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Legend:

- Buzzard (BZ)
- Kestrel (K)
- Little owl (LO)
- Sparrowhawk (SH)
- Tawny owl (TO)

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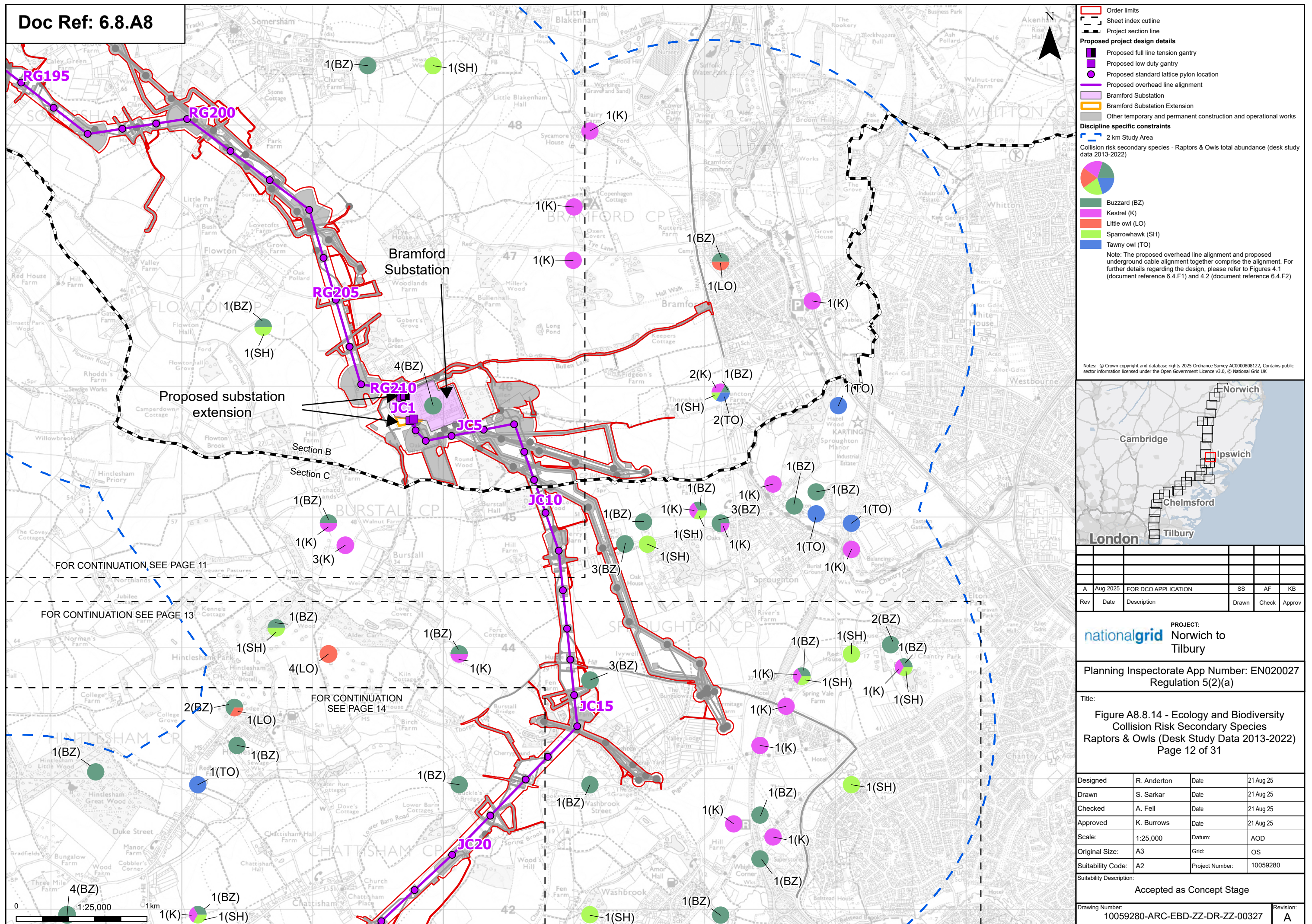
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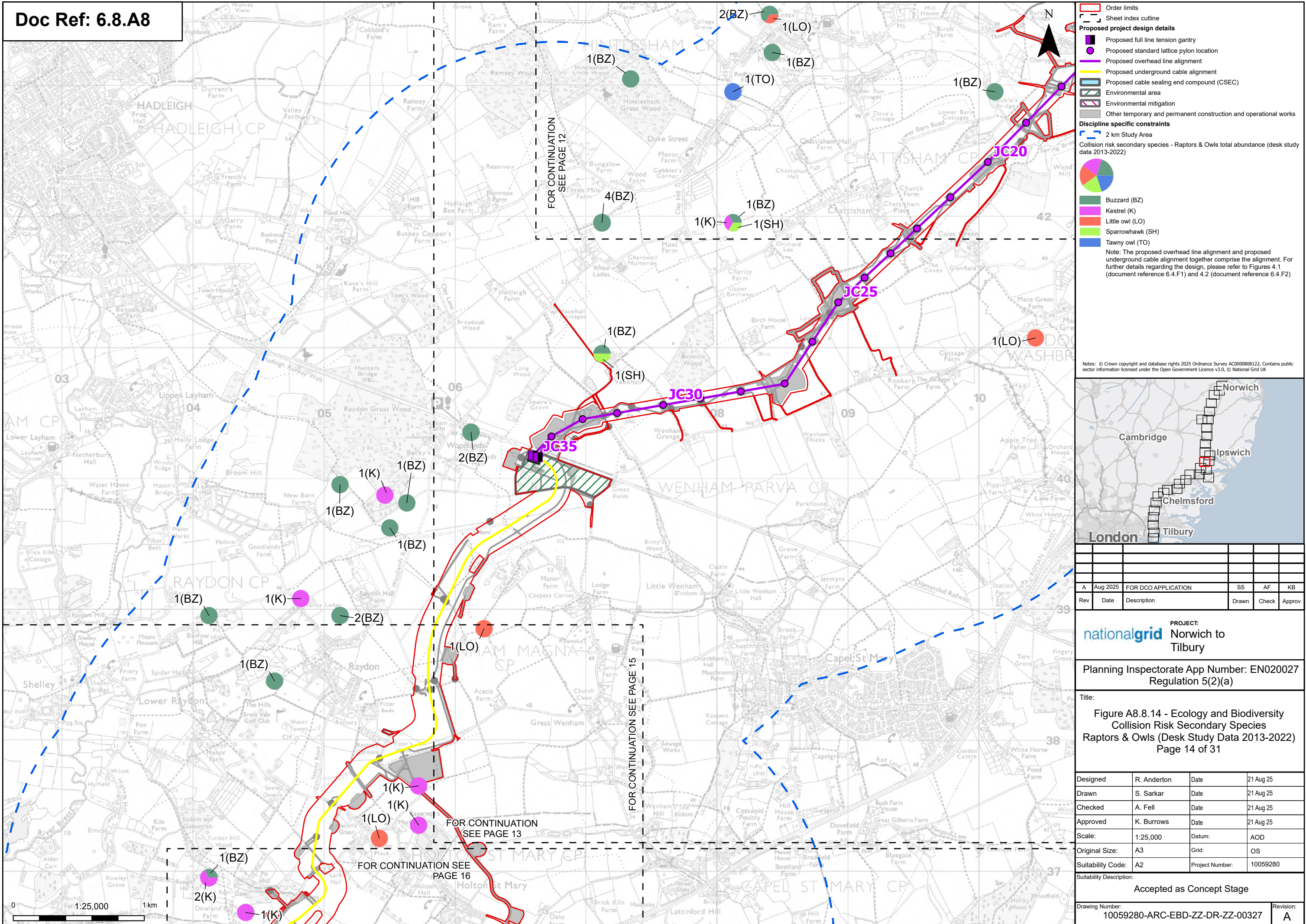




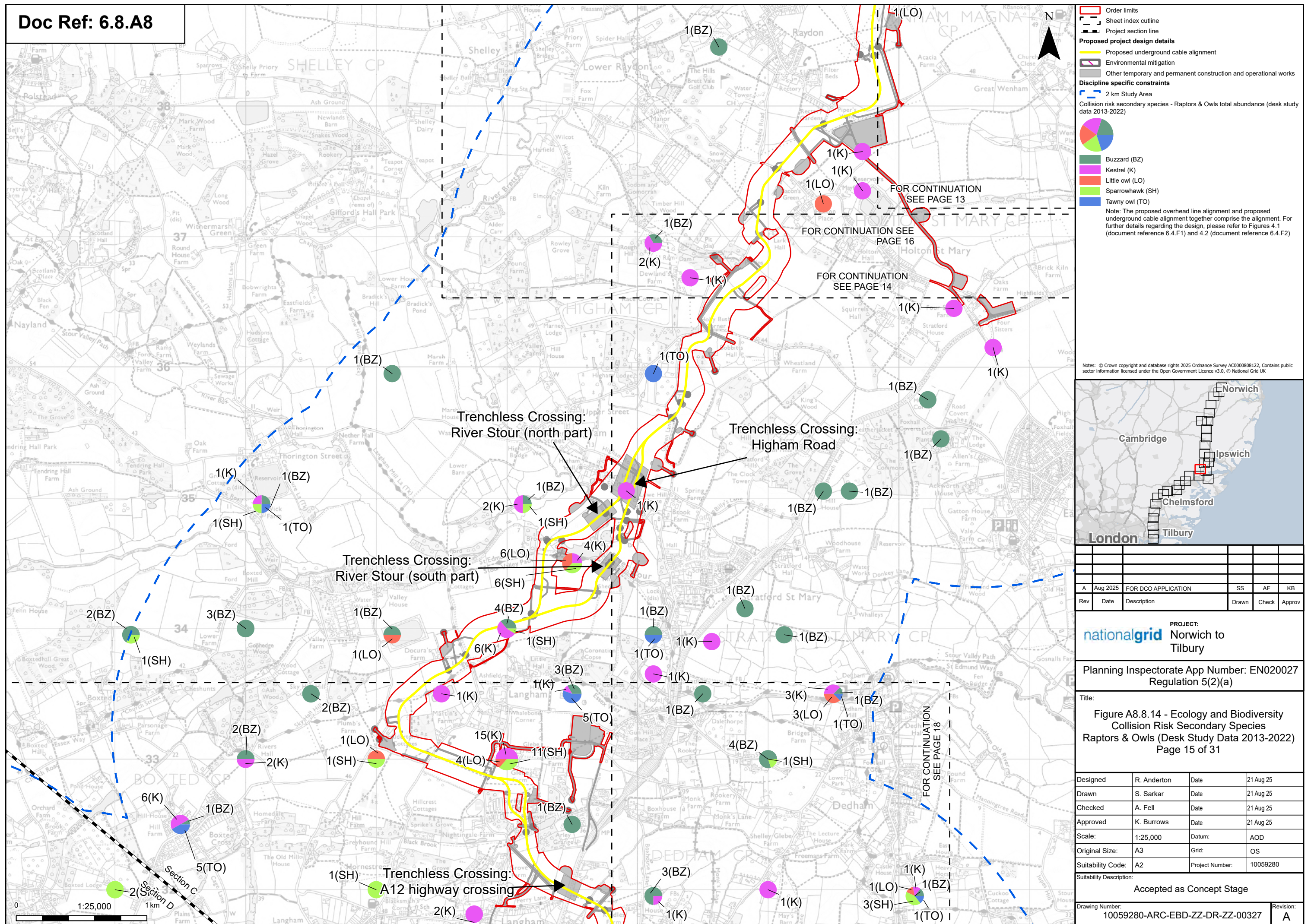




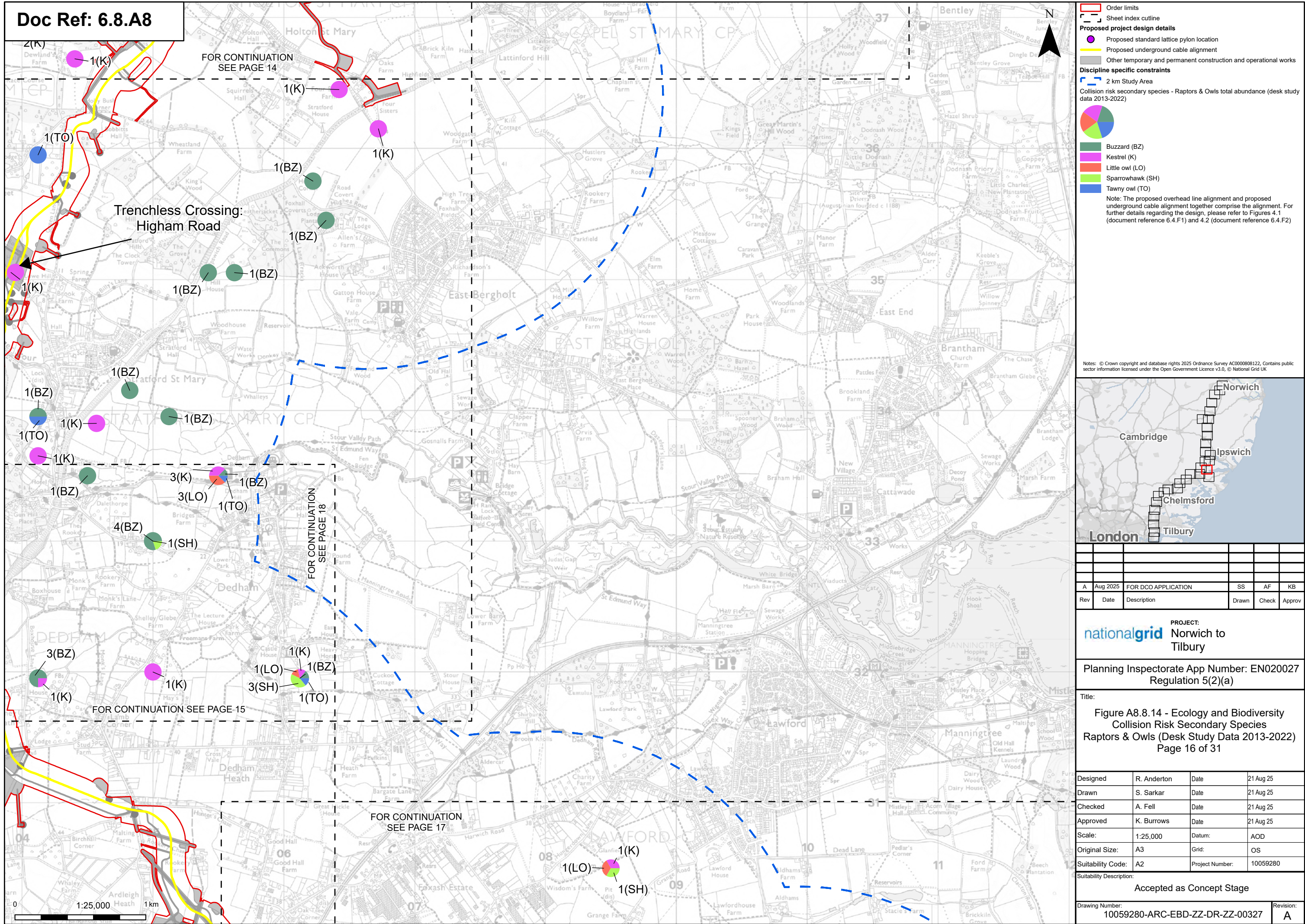




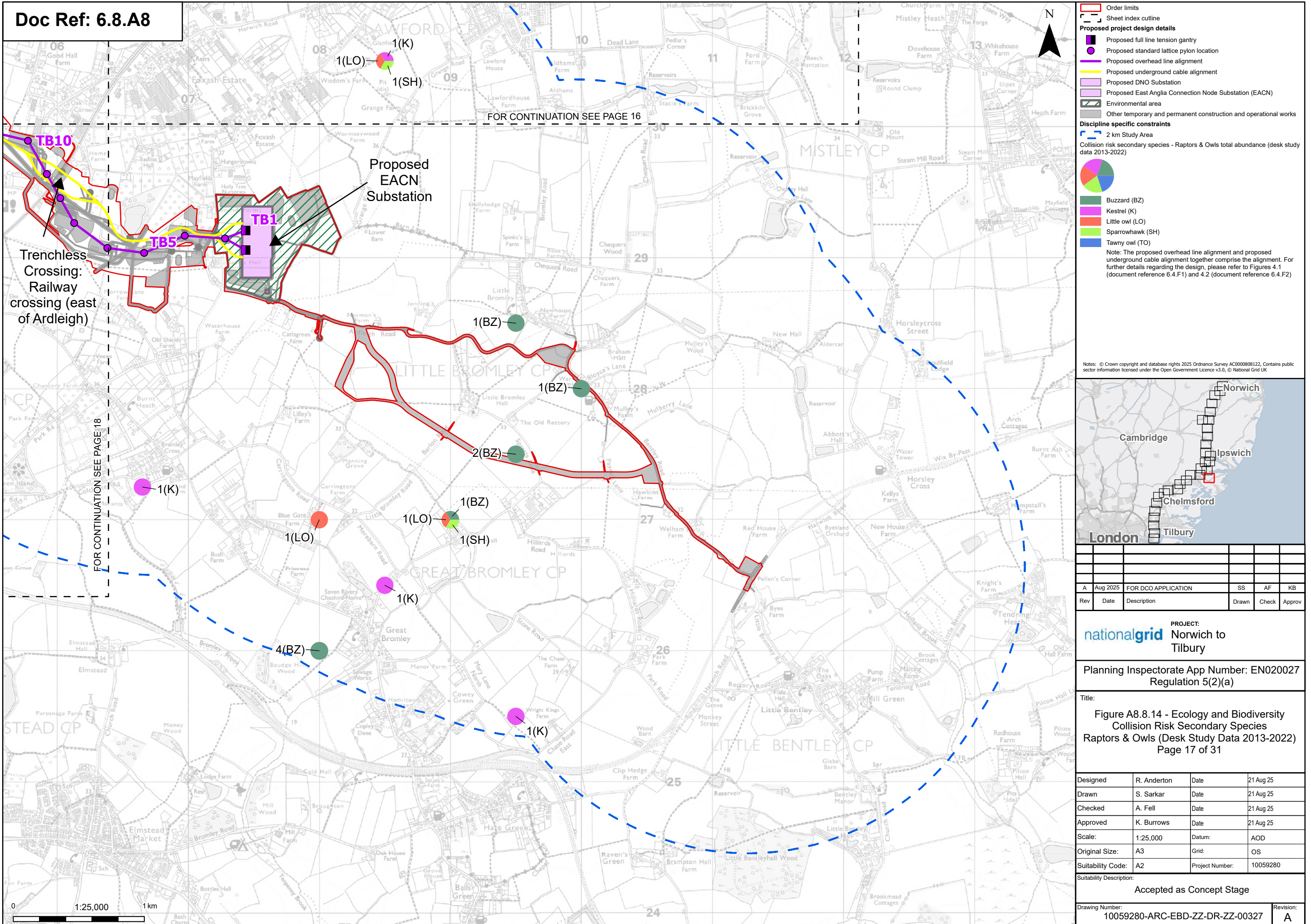




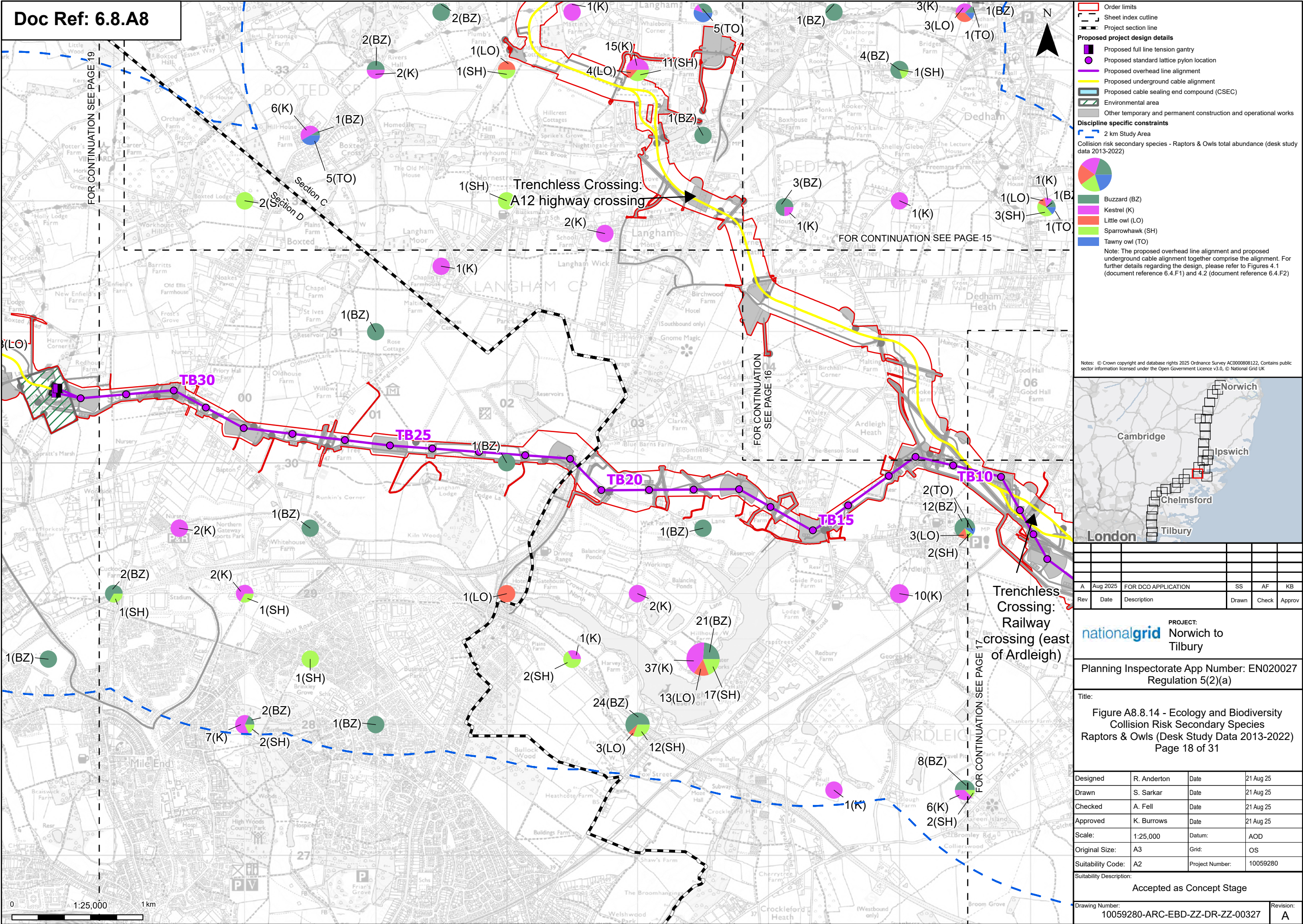




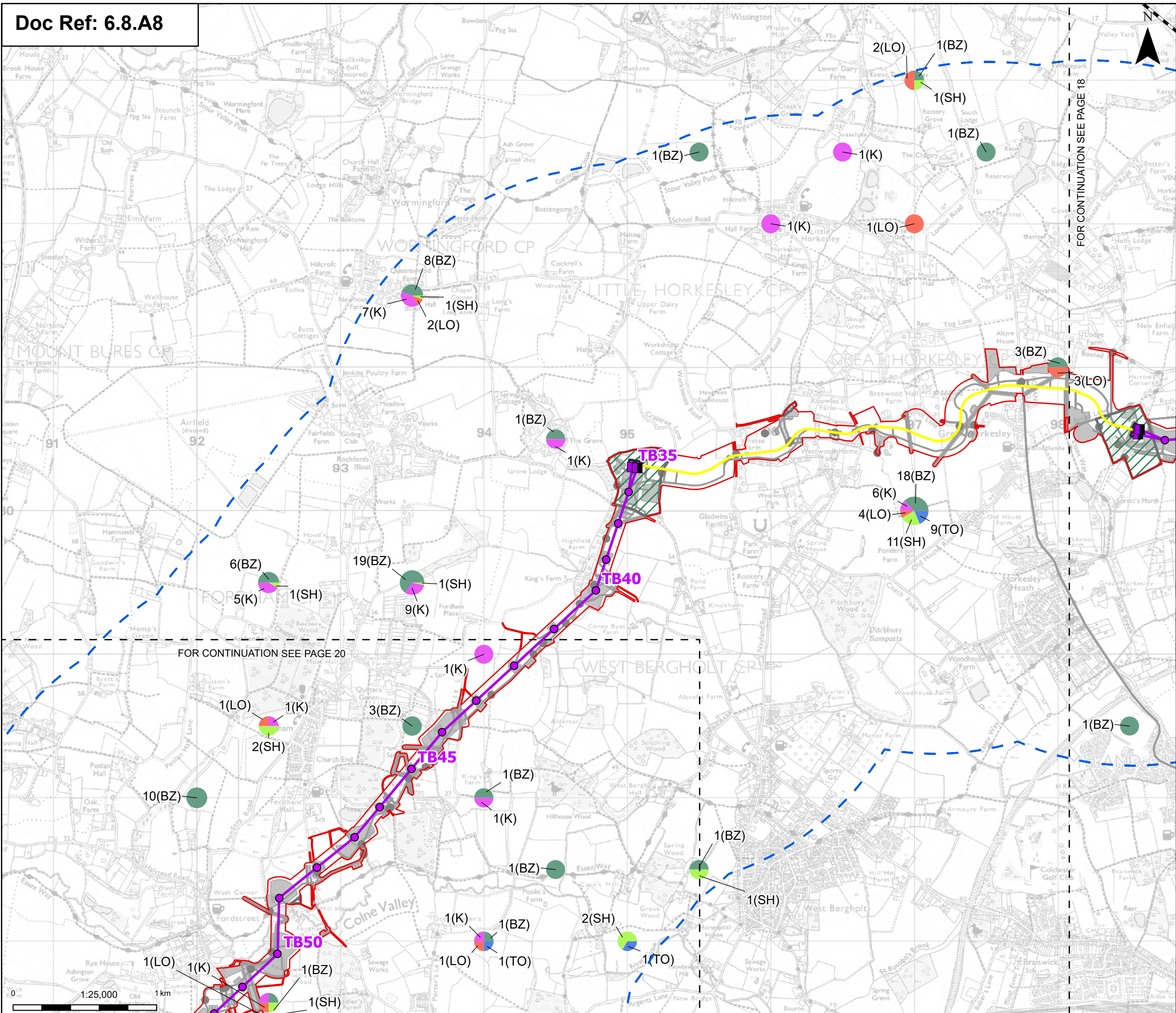












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Proposed underground cable alignment

Proposed cable sealing end compound (CSEC)

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Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
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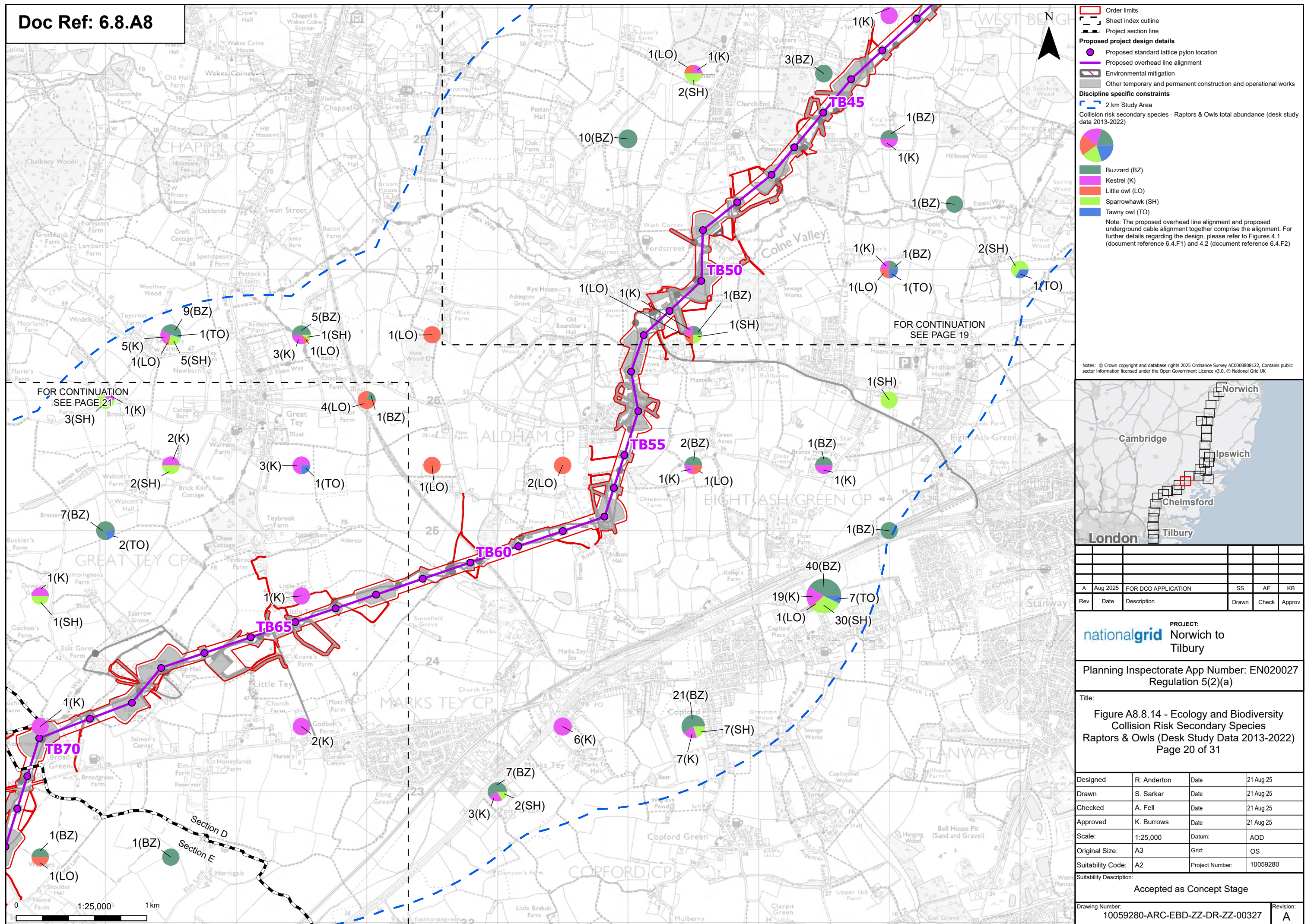
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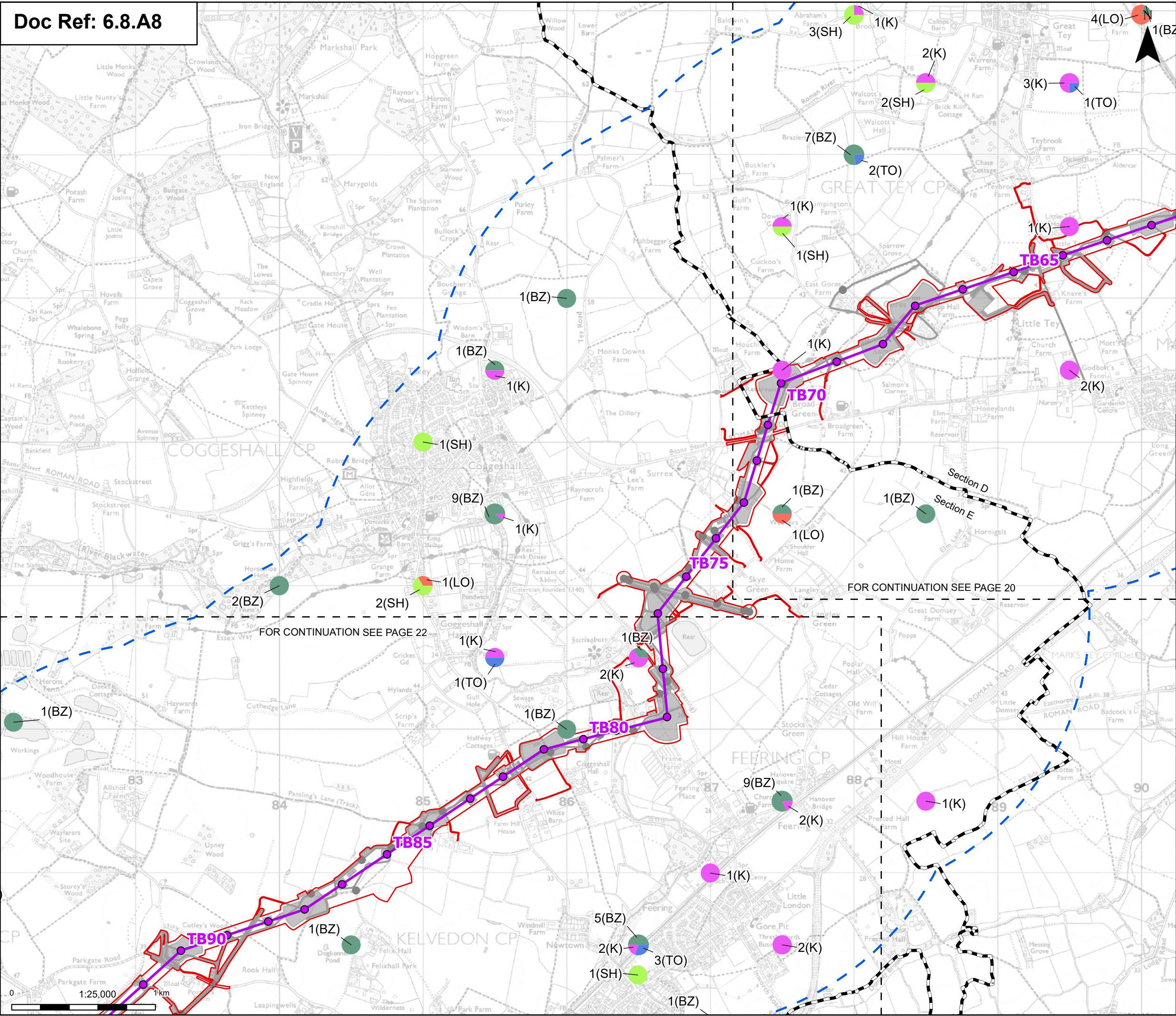
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Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Buzzard (BZ)

Kestrel (K)

Little owl (LO)

Sparrowhawk (SH)

Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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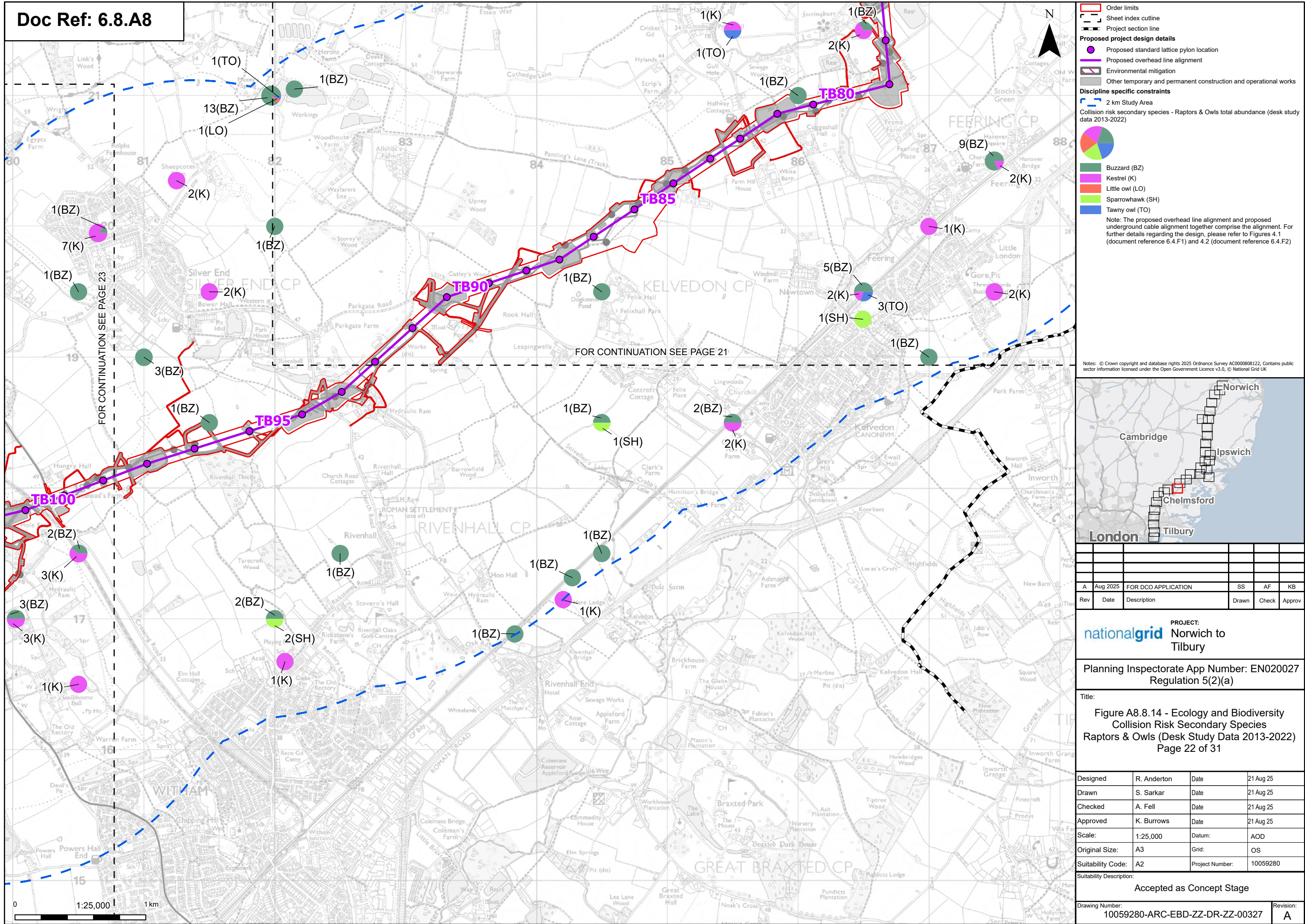
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Suitability Description:  
Accepted as Concept Stage

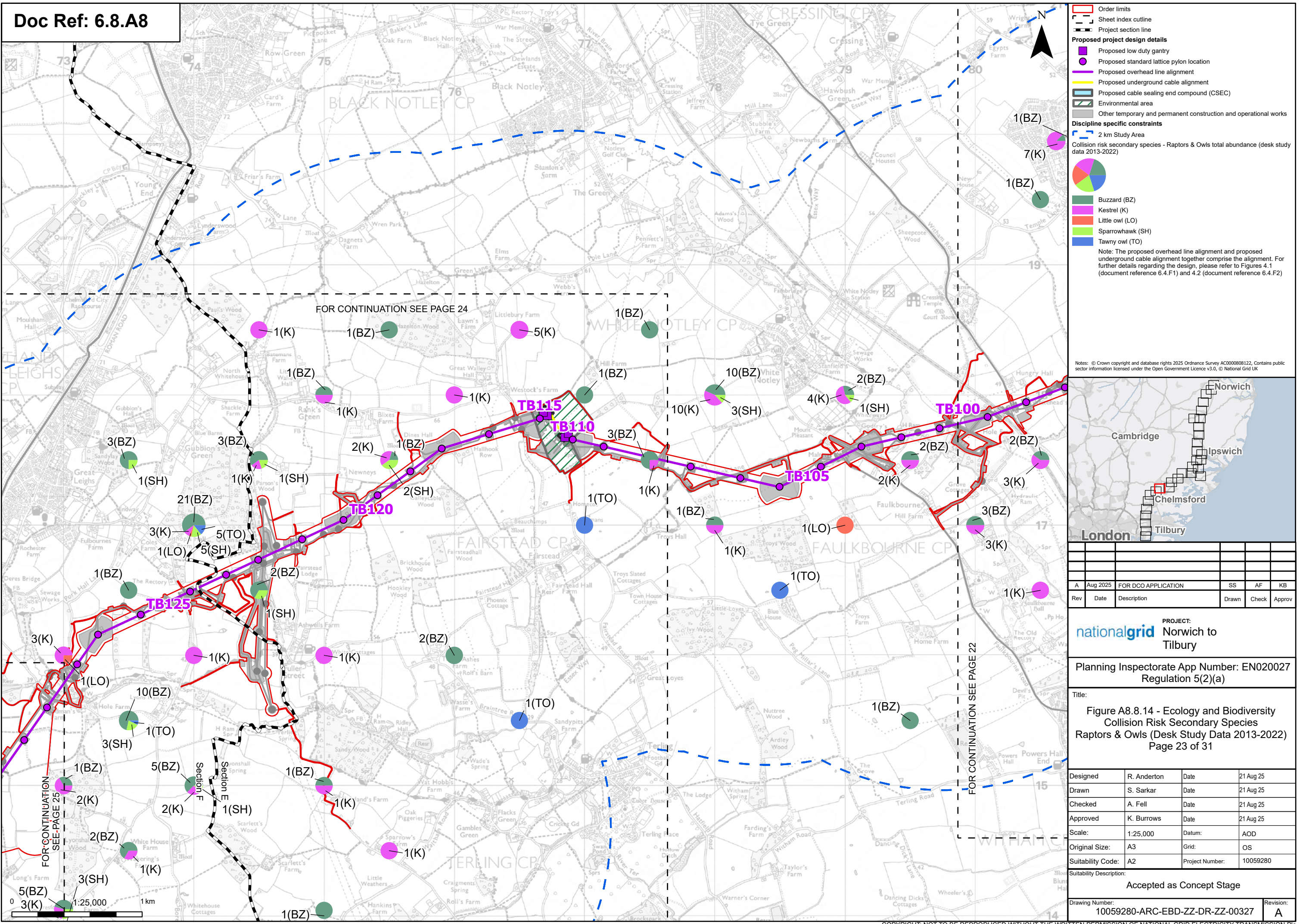
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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
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Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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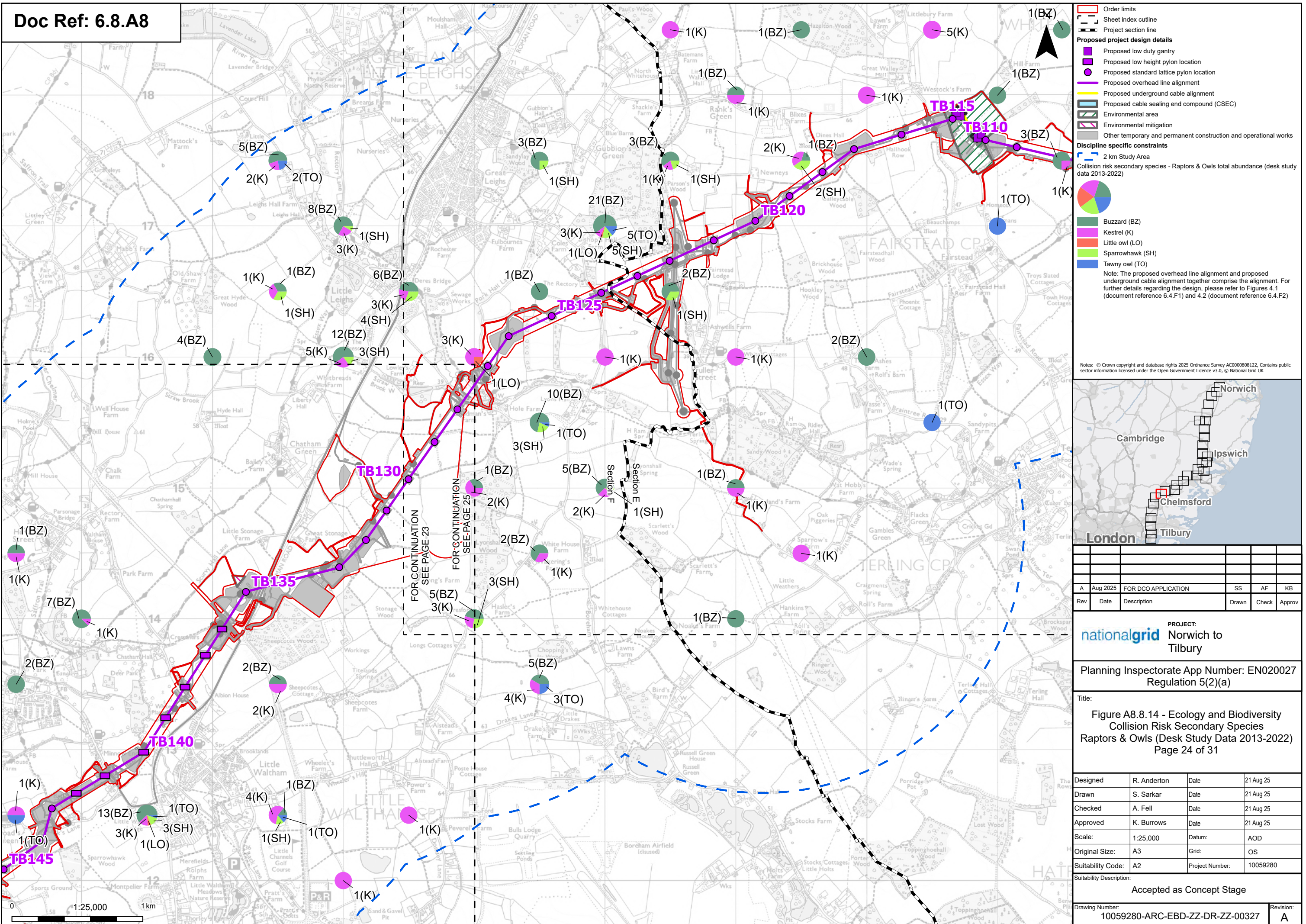
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
10059280-ARC-EBD-ZZ-DR-ZZ-00327

Revision:  
A





**Order limits**

- Order limits
- Sheet index cutline
- Project section line

**Proposed project design details**

- Proposed low duty gantry
- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

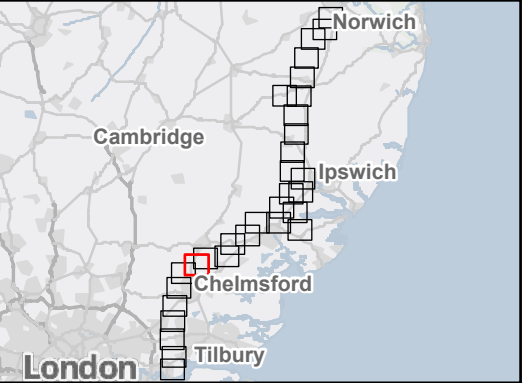
- 2 km Study Area
- Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

**Legend**

- Buzzard (BZ)
- Kestrel (K)
- Little owl (LO)
- Sparrowhawk (SH)
- Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
**nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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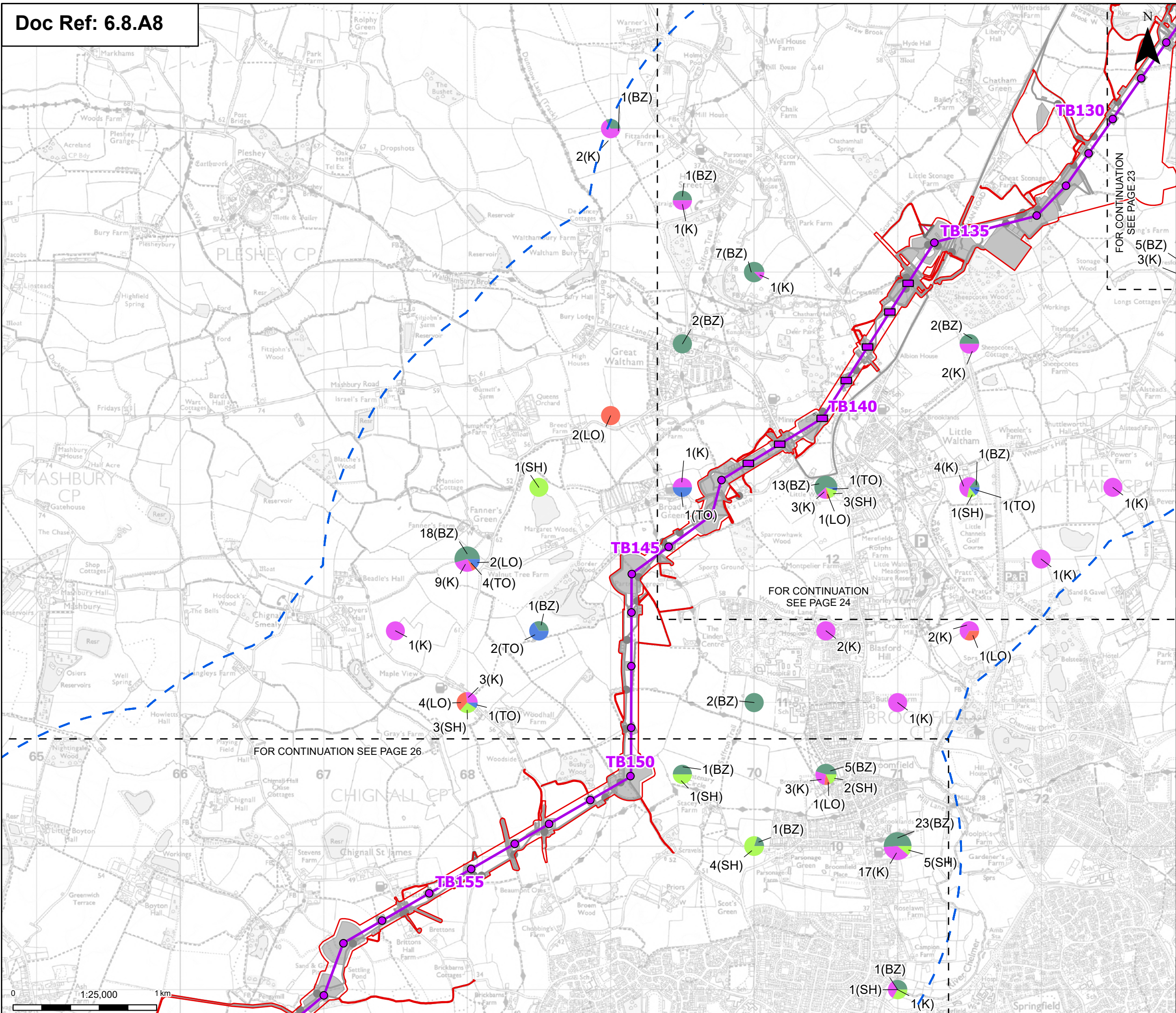
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
10059280-ARC-EBD-ZZ-DR-ZZ-00327

Revision:  
A





**Order limits**

**Sheet index cutline**

**Proposed project design details**

- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

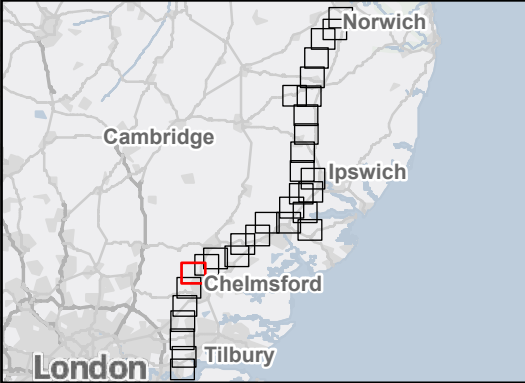
- 2 km Study Area
- Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

**Legend**

- Buzzard (BZ)
- Kestrel (K)
- Little owl (LO)
- Sparrowhawk (SH)
- Tawny owl (TO)

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**PROJECT:**  
nationalgrid Norwich to Tilbury

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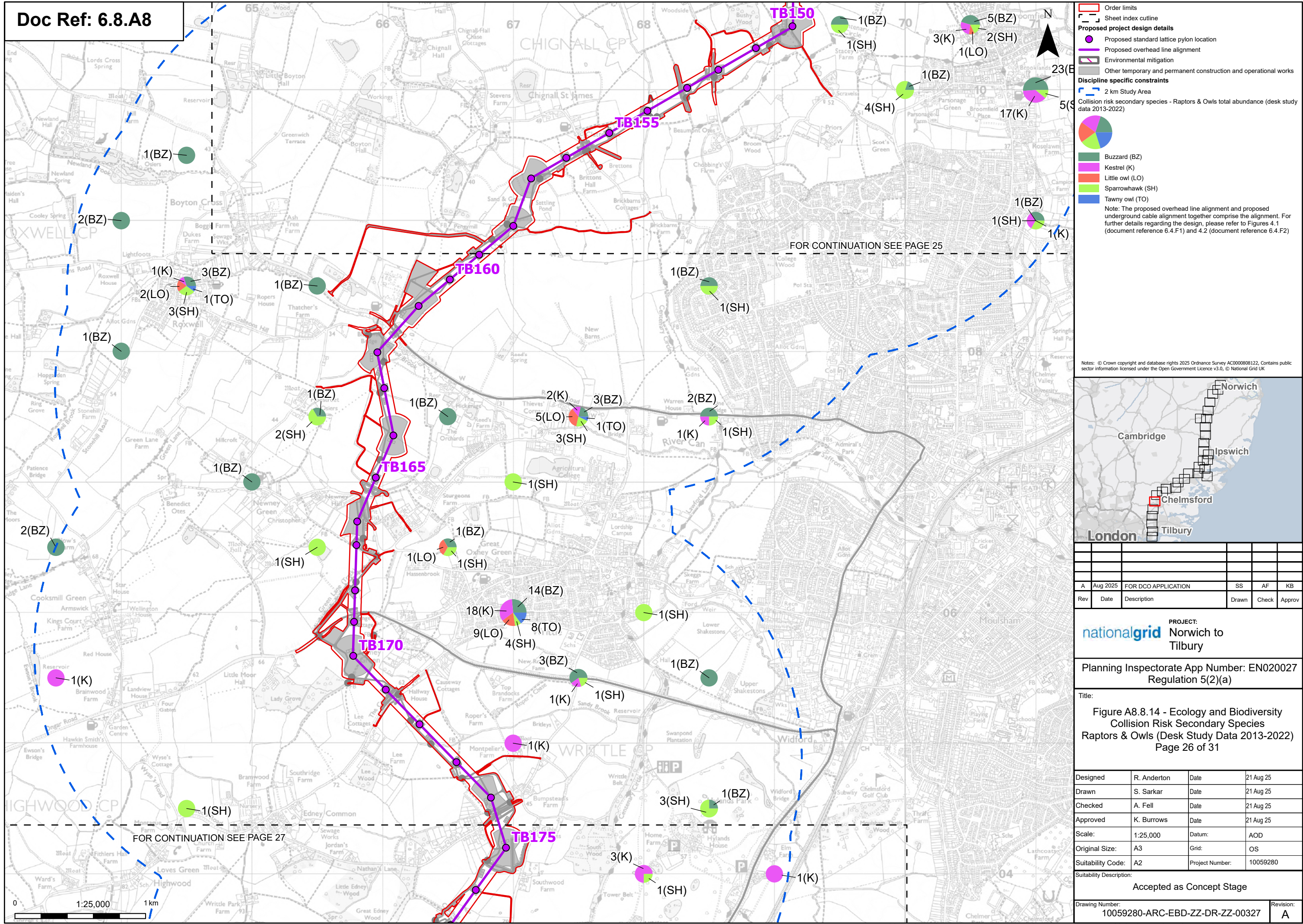
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Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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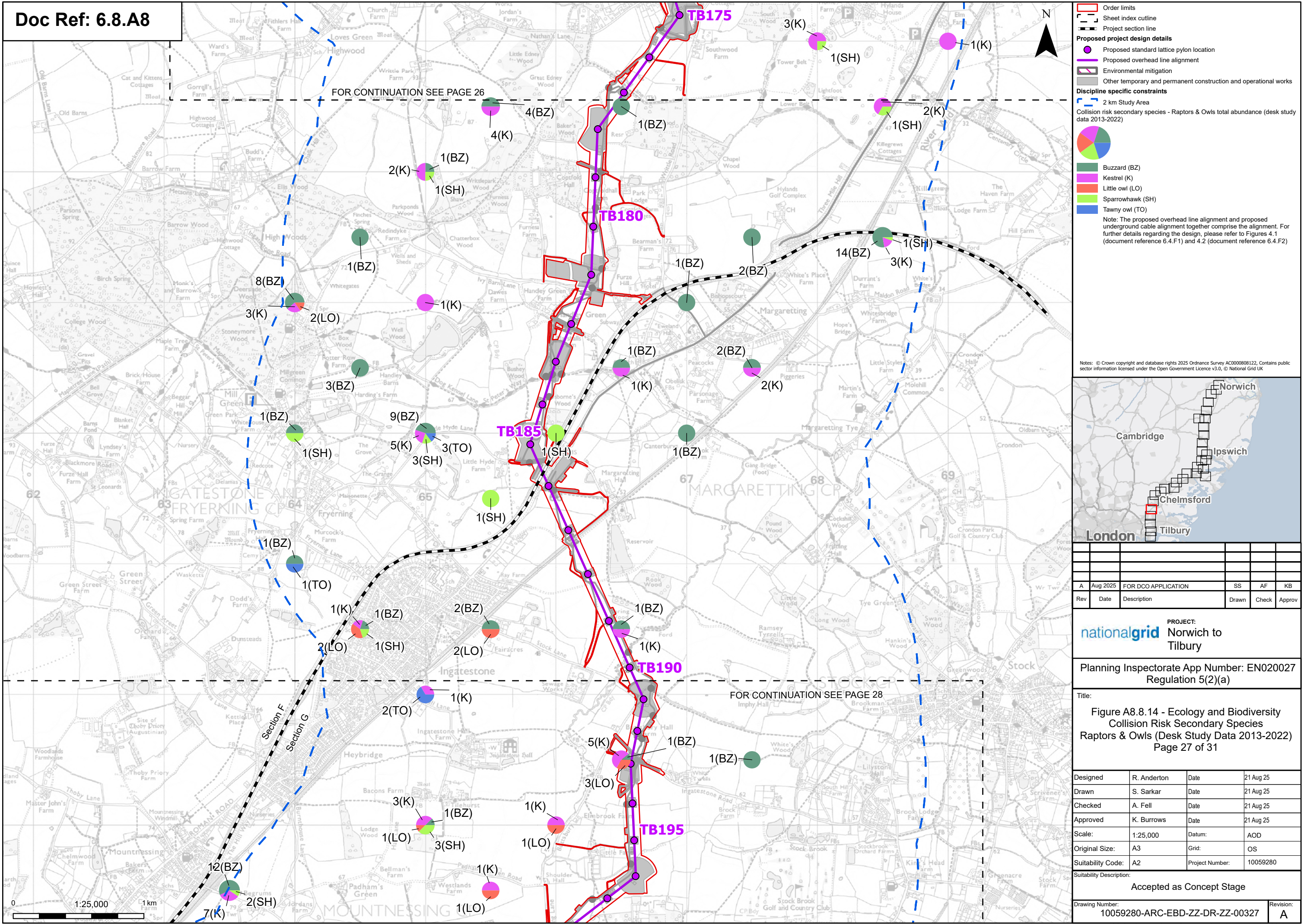
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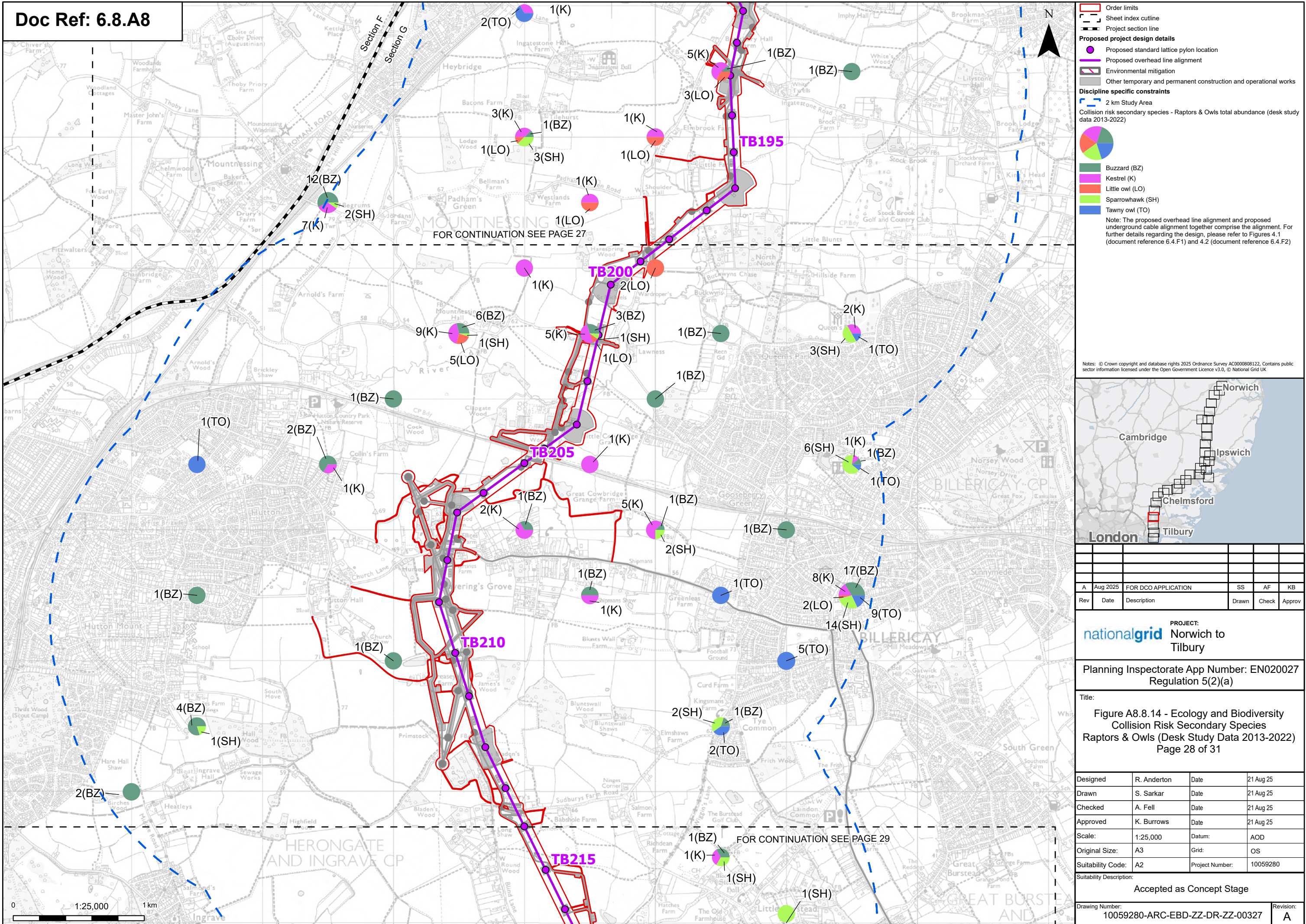














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FOR CONTINUATION SEE PAGE 30

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Project section line

Proposed project design details

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Buzzard (BZ)

Kestrel (K)

Little owl (LO)

Sparrowhawk (SH)

Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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London

Cambridge

Norwich

Ipswich

Chelmsford

Tilbury

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.14 - Ecology and Biodiversity

Collision Risk Secondary Species

Raptors & Owls (Desk Study Data 2013-2022)

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Designed

R. Anderton

Date

21 Aug 25

Drawn

S. Sarkar

Date

21 Aug 25

Checked

A. Fell

Date

21 Aug 25

Approved

K. Burrows

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21 Aug 25

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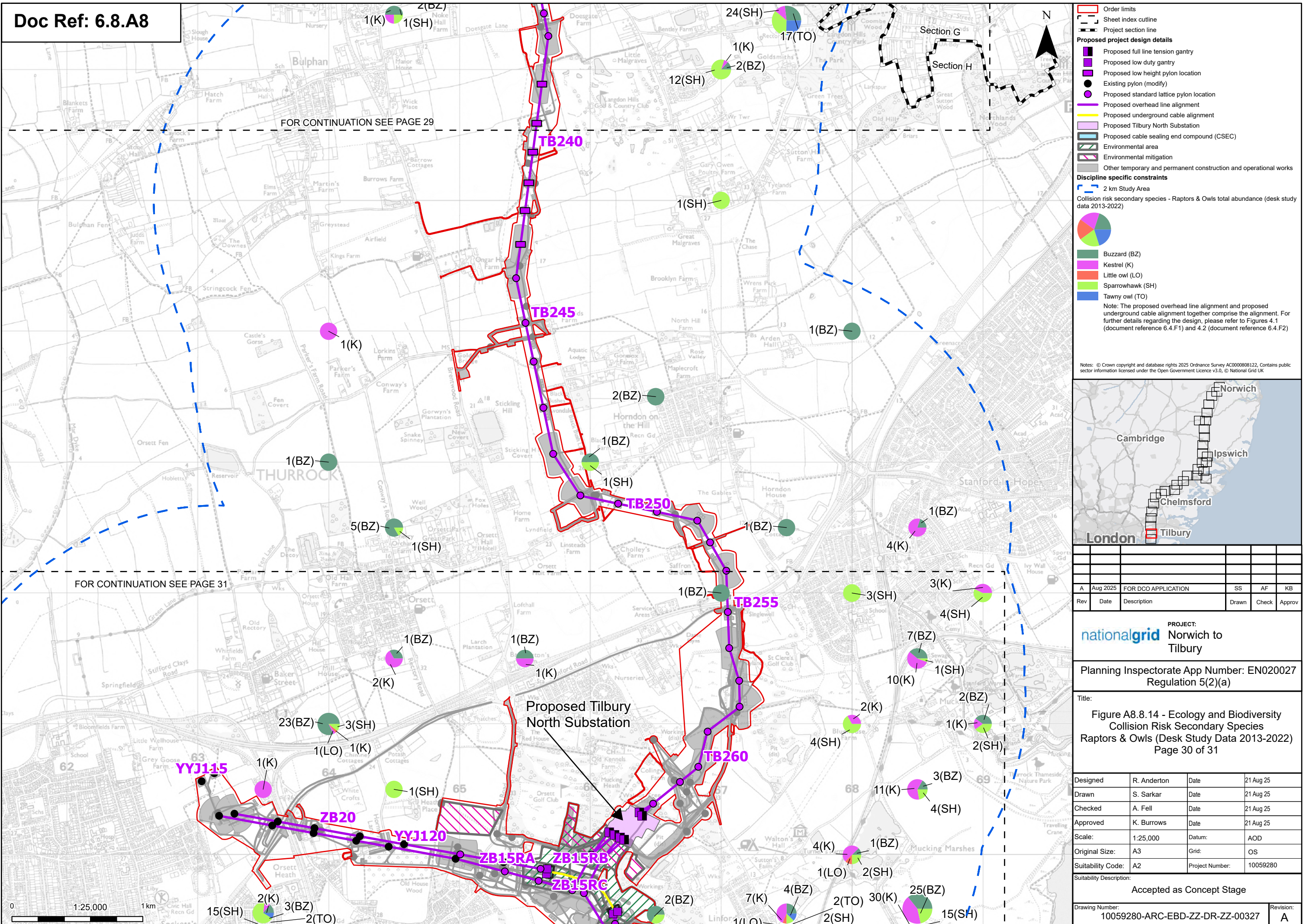
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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

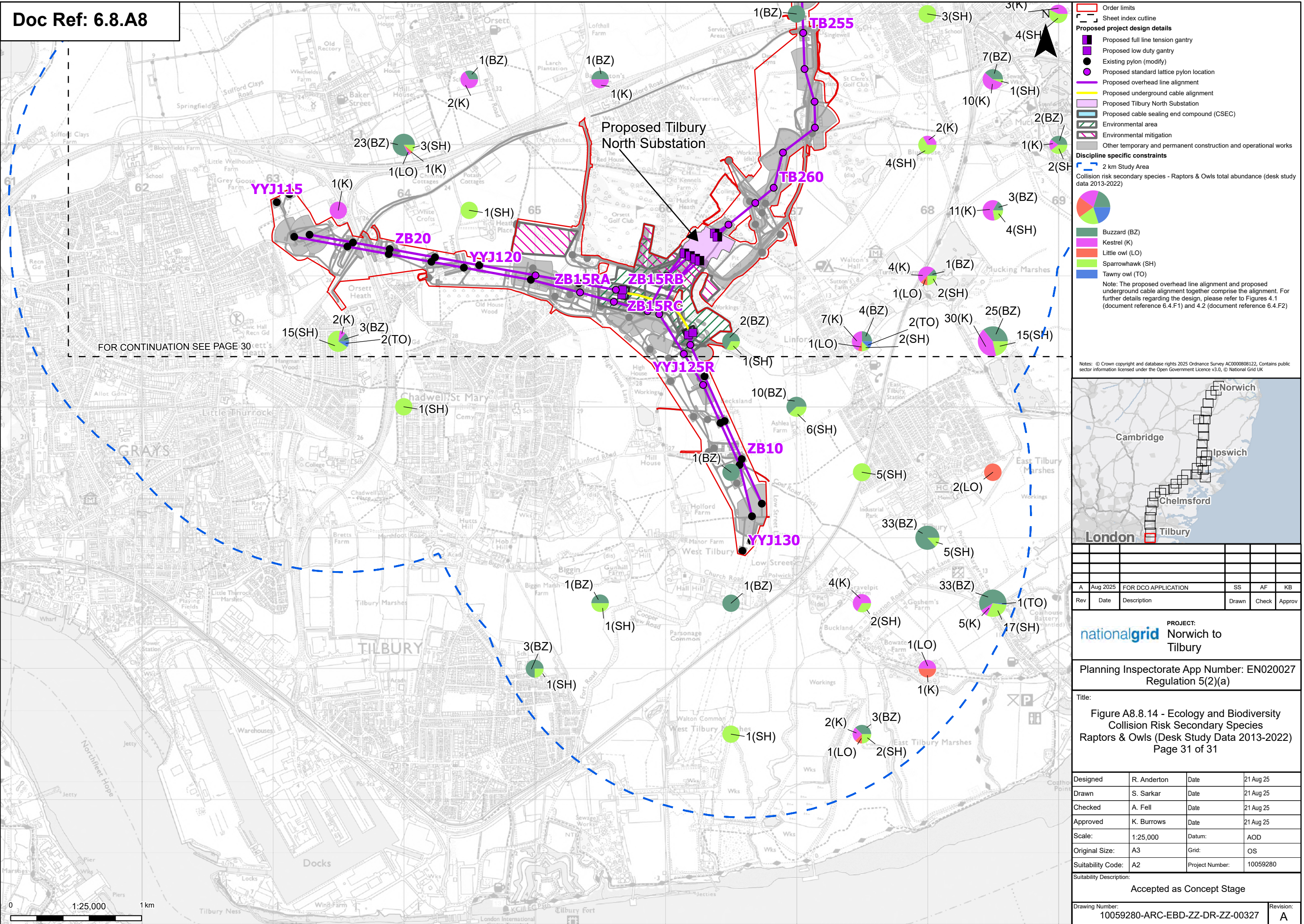
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Scale:            | 1:25,000    | Datum:          | AOD       |
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Suitability Description: Accepted as Concept Stage

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Order limits

Sheet index outline

**Proposed project design details**

- Proposed full line tension gantry
- Proposed low duty gantry
- Existing pylon (modify)
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Raptors & Owls total abundance (desk study data 2013-2022)

Legend:

- Buzzard (BZ)
- Kestrel (K)
- Little owl (LO)
- Sparrowhawk (SH)
- Tawny owl (TO)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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Map of the region showing the location of Tilbury relative to London, Cambridge, Ipswich, and Norwich.

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**PROJECT:**

**nationalgrid** Norwich to Tilbury

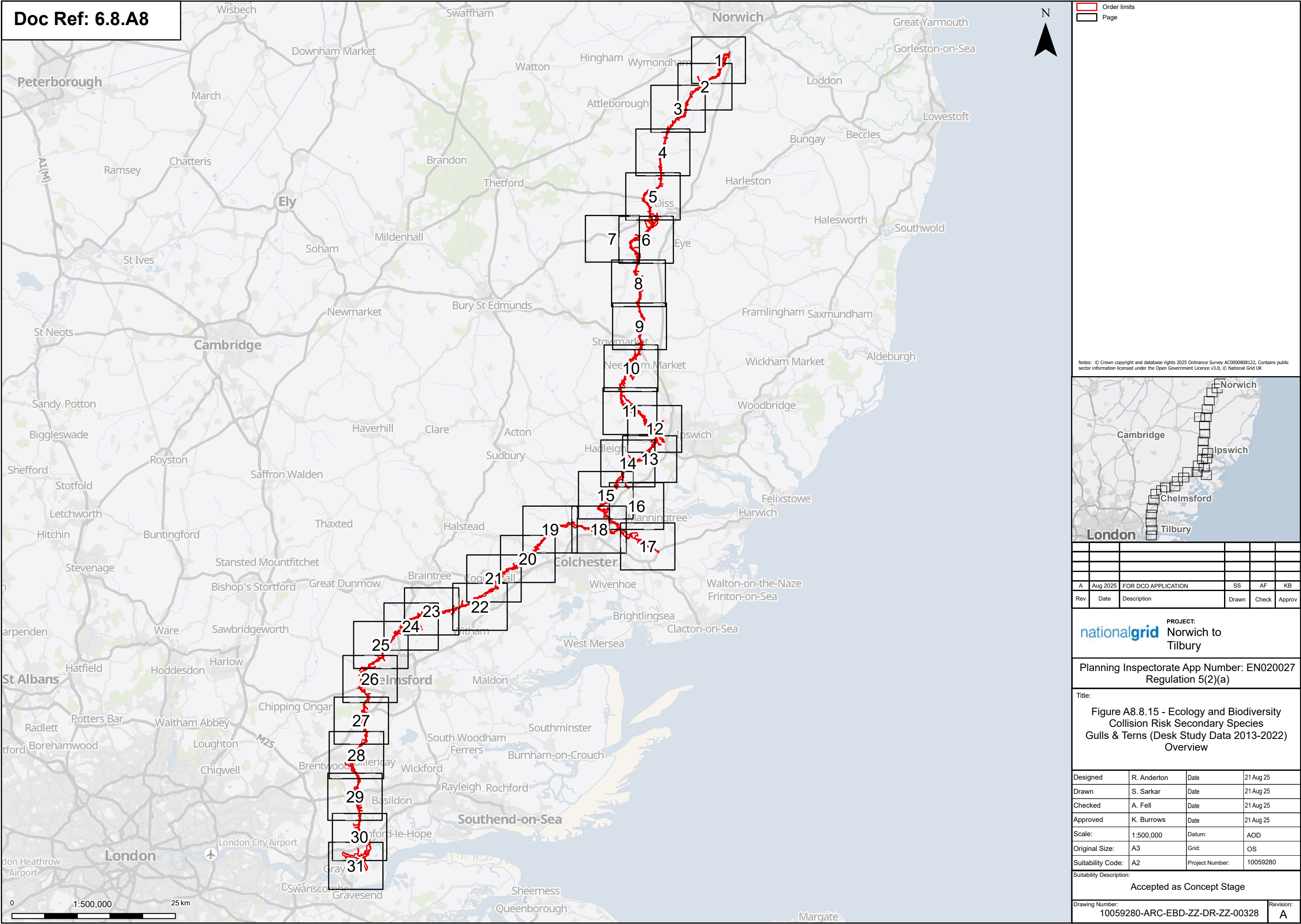
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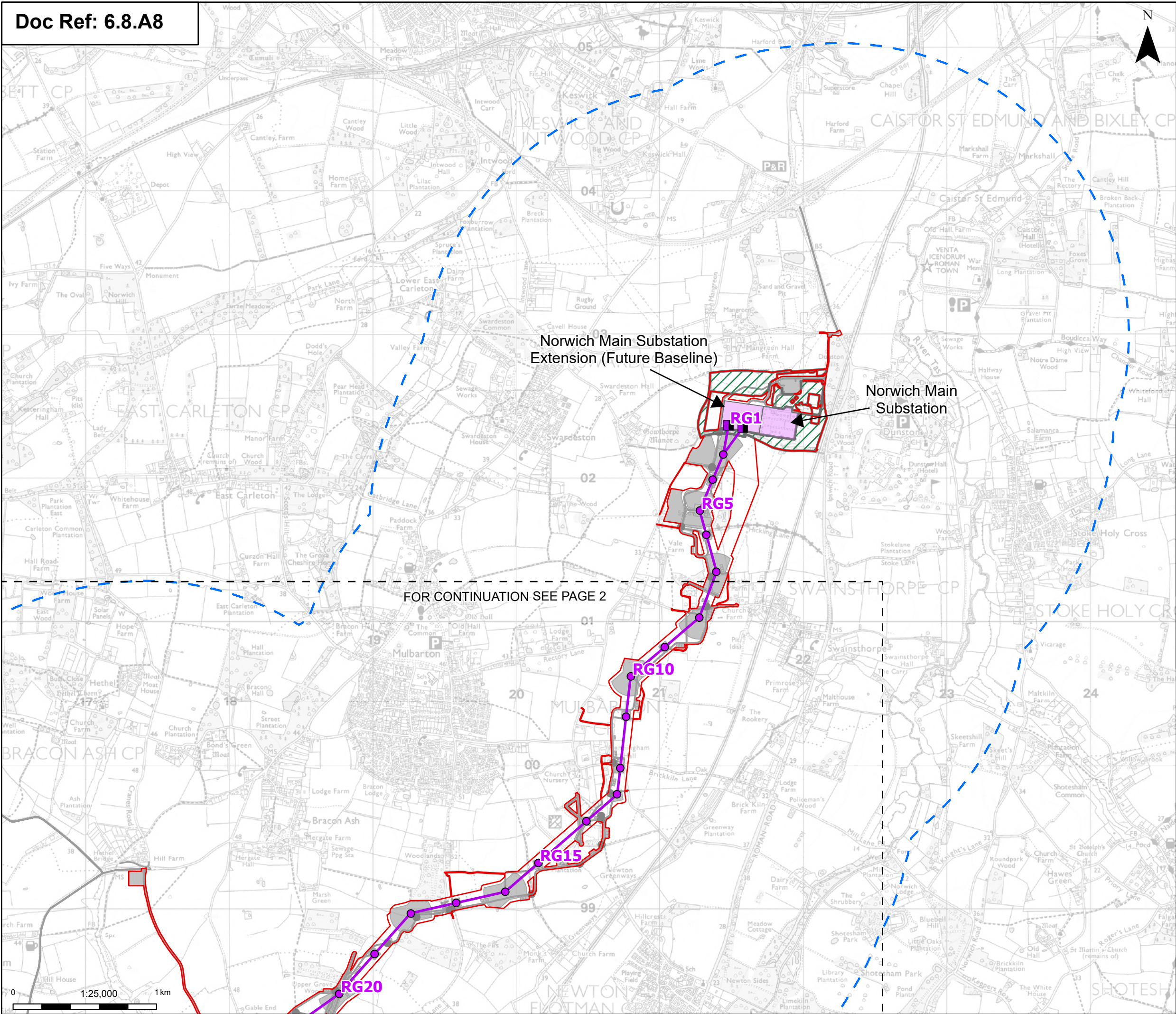
Figure A8.8.14 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Raptors & Owls (Desk Study Data 2013-2022)  
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Order limits

Sheet index cutline

Proposed project design details

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Norwich Main Substation

Norwich Main Substation Extension (future baseline)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.15 - Ecology and Biodiversity

Collision Risk Secondary Species

Gulls & Terns (Desk Study Data 2013-2022)

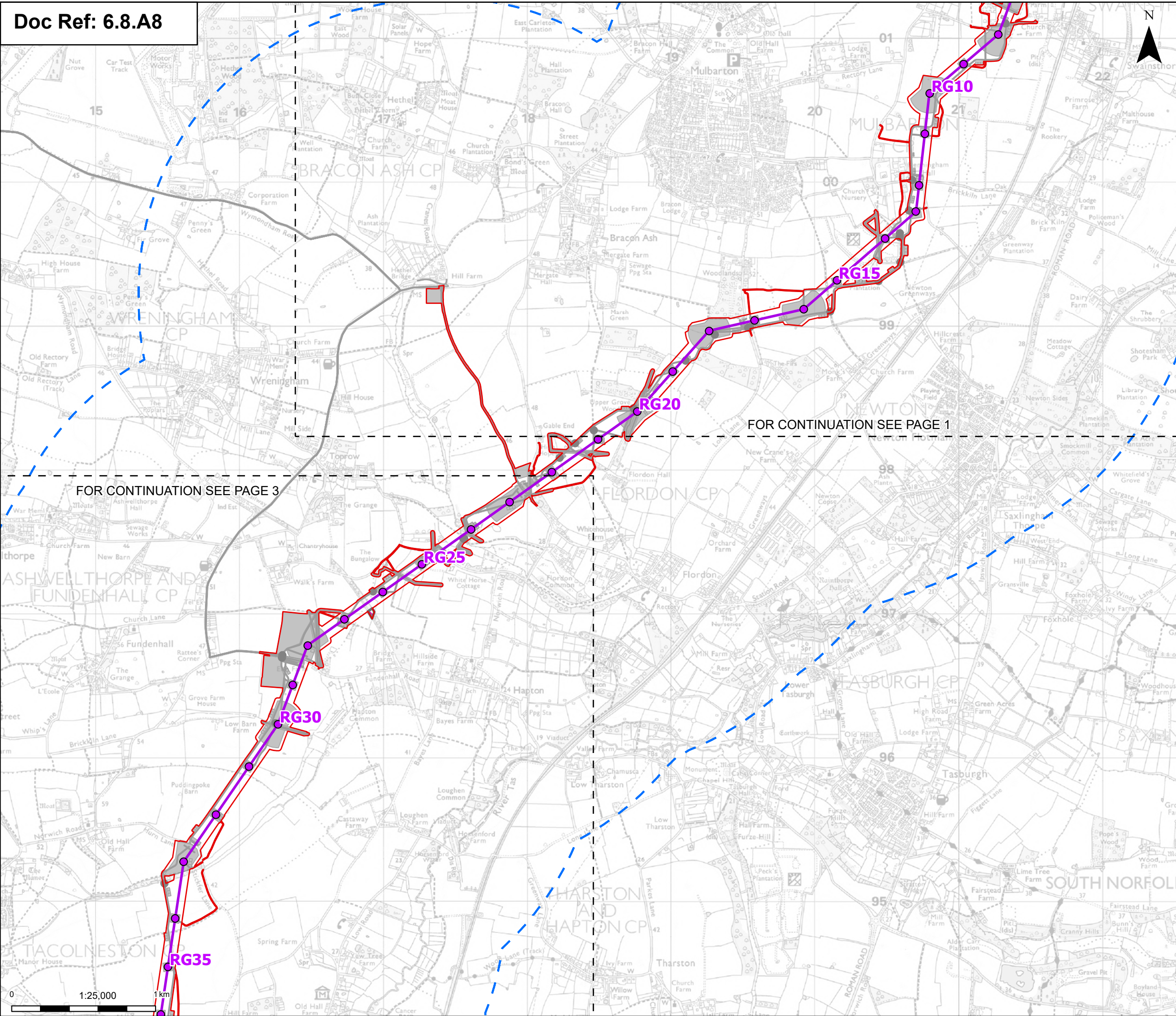
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Order limits

Sheet index outline

**Proposed project design details**

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

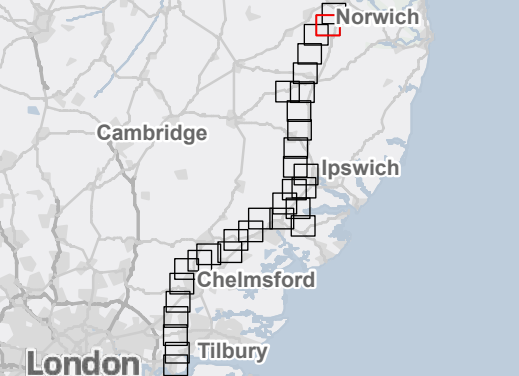
Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
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Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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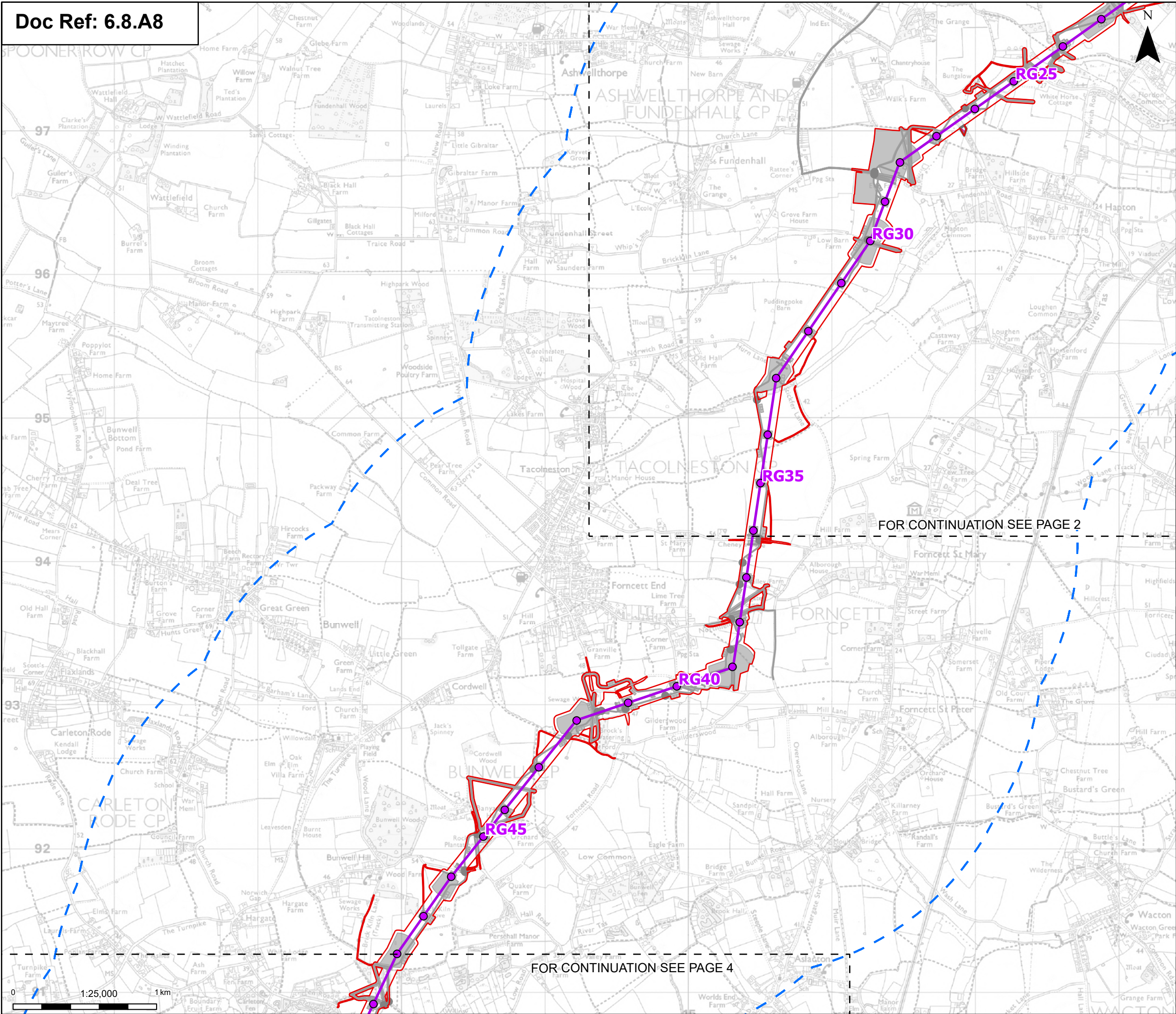
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Suitability Description:  
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Drawing Number:  
10059280-ARC-EBD-ZZ-DR-ZZ-00328

Revision:  
A





Order limits

Sheet index outline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
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nationalgrid

PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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| Designed                                              | R. Anderton | Date            | 21 Aug 25      |
| Drawn                                                 | S. Sarkar   | Date            | 21 Aug 25      |
| Checked                                               | A. Fell     | Date            | 21 Aug 25      |
| Approved                                              | K. Burrows  | Date            | 21 Aug 25      |
| Scale:                                                | 1:25,000    | Datum:          | AOD            |
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| Suitability Code:                                     | A2          | Project Number: | 10059280       |
| Suitability Description:<br>Accepted as Concept Stage |             |                 |                |
| Drawing Number:<br>10059280-ARC-EBD-ZZ-DR-ZZ-00328    |             |                 | Revision:<br>A |

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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
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Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
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Revision:  
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Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
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Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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| Designed                 | R. Anderton | Date            | 21 Aug 25 |
| Drawn                    | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved                 | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Description: |             |                 |           |

Accepted as Concept Stage

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10(BH)  
7(CM)

1(BH)

RG110

RG105

RG100

RG95

RG115

RG120

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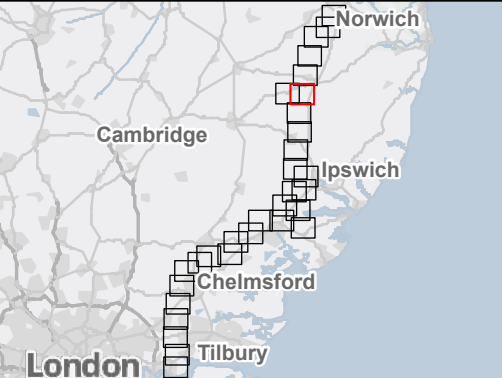
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- Sheet index outline
- Proposed project design details
- Proposed standard lattice pylon location
  - Proposed overhead line alignment
  - Environmental mitigation
  - Other temporary and permanent construction and operational works
- Discipline specific constraints
- 2 km Study Area
- Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)



- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
- Lesser Black-backed gull (LB)
- Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
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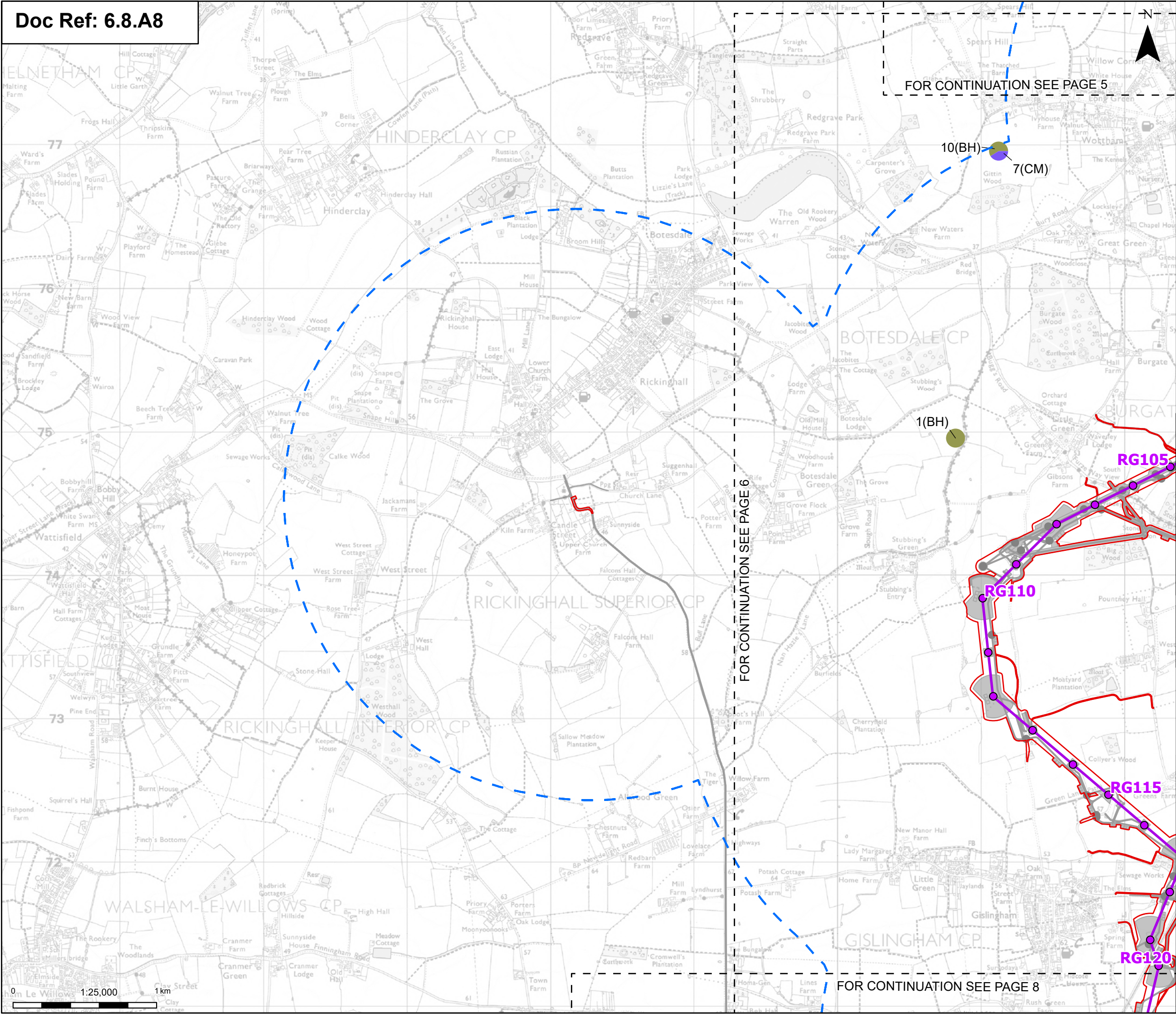
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Accepted as Concept Stage

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Revision:  
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

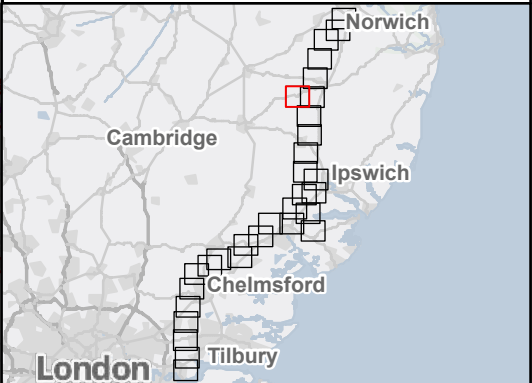
Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to  
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Planning Inspectorate App Number: EN020027  
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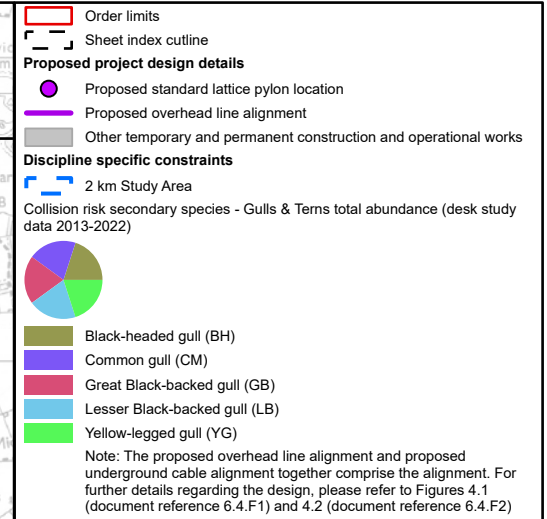
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Drawing Number:  
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Revision:  
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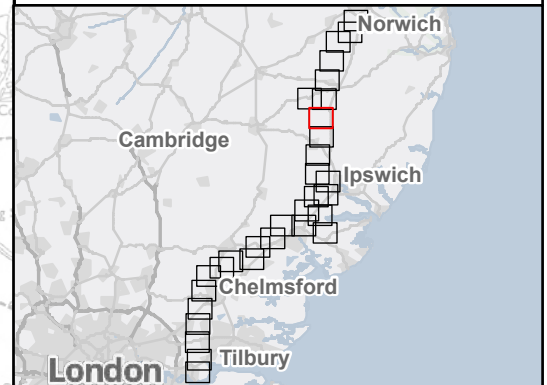


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**nationalgrid** PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
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Title: Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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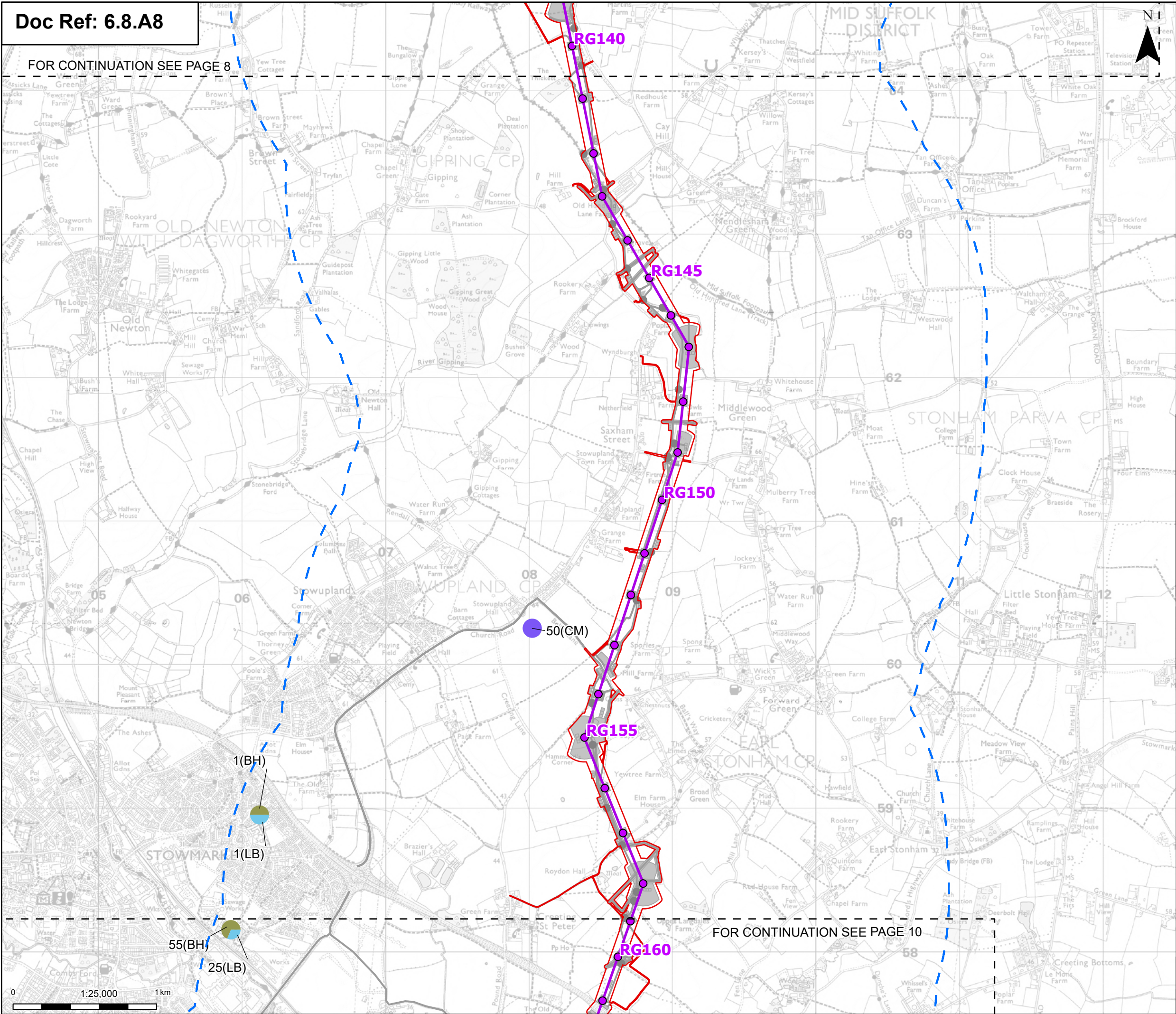
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Scale:            | 1:25,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.15 - Ecology and Biodiversity  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

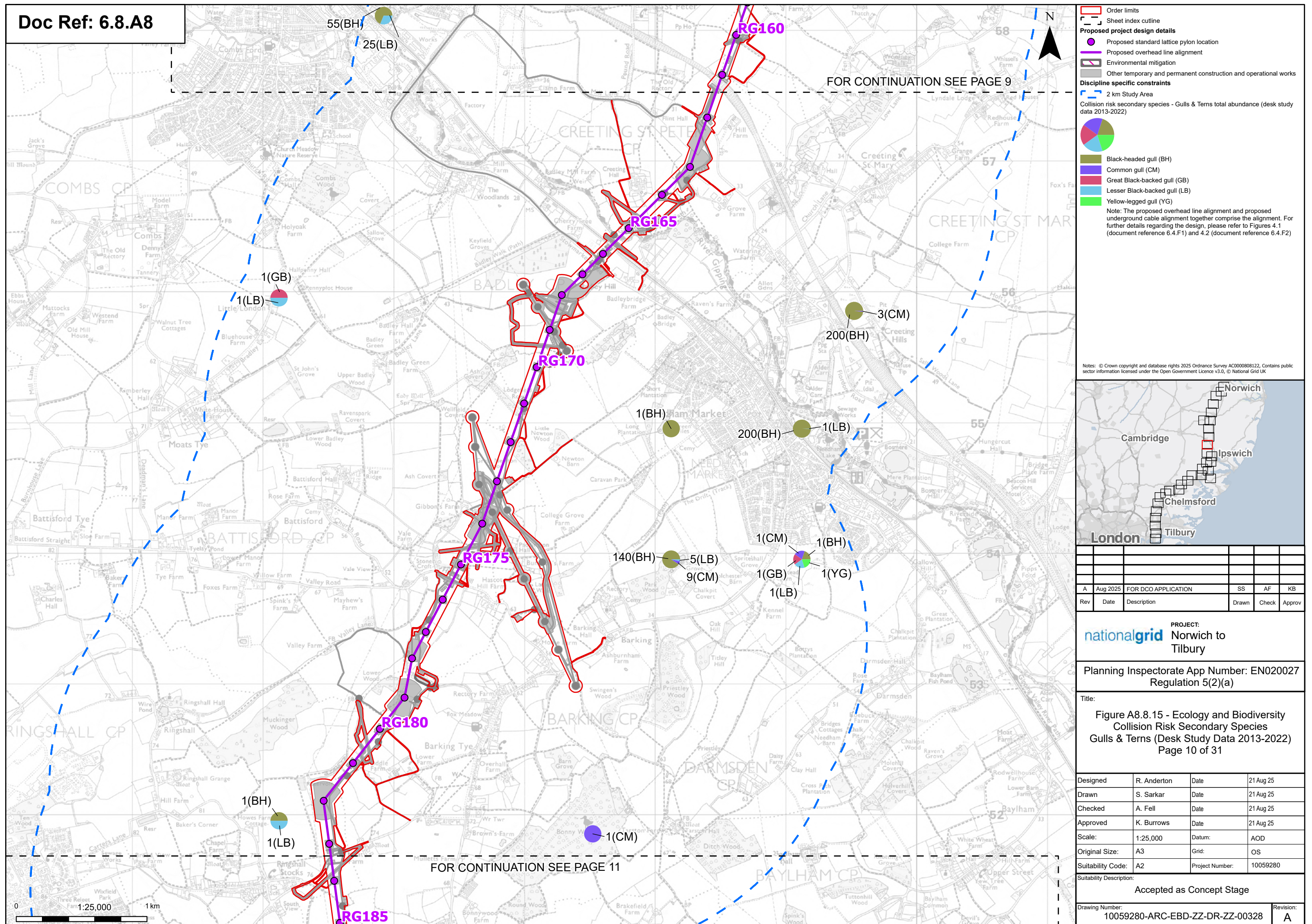
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10059280-ARC-EBD-ZZ-DR-ZZ-00328

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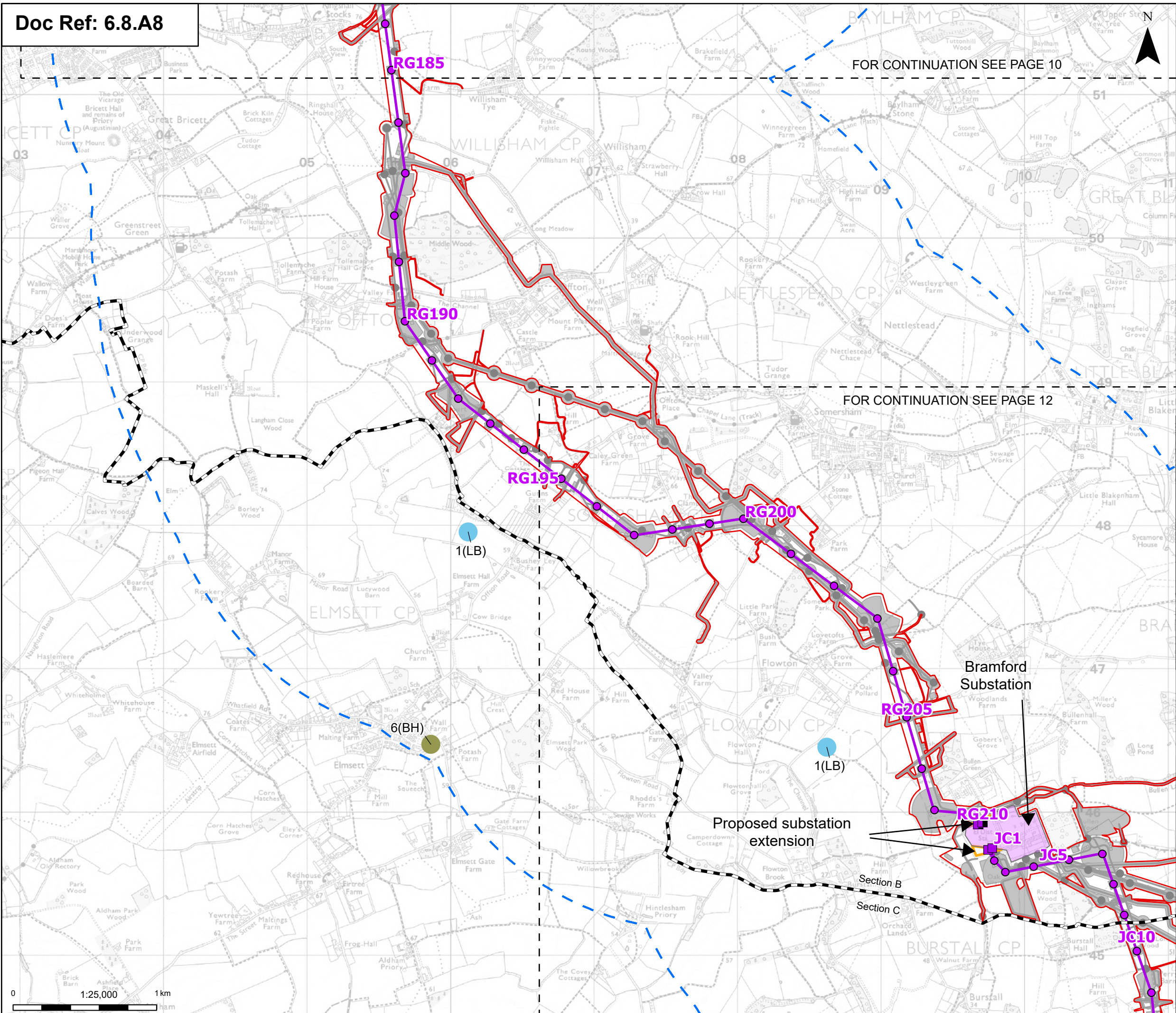
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Order limits

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Project section line

**Proposed project design details**

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Bramford Substation
- Bramford Substation Extension
- Other temporary and permanent construction and operational works

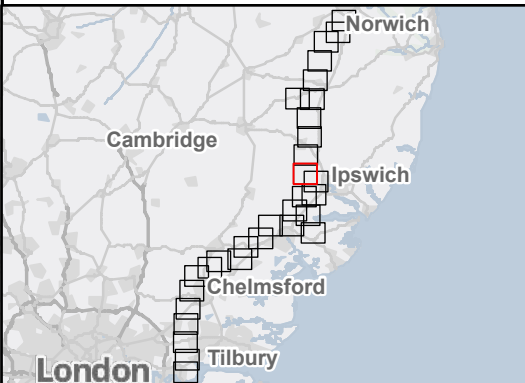
**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
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PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

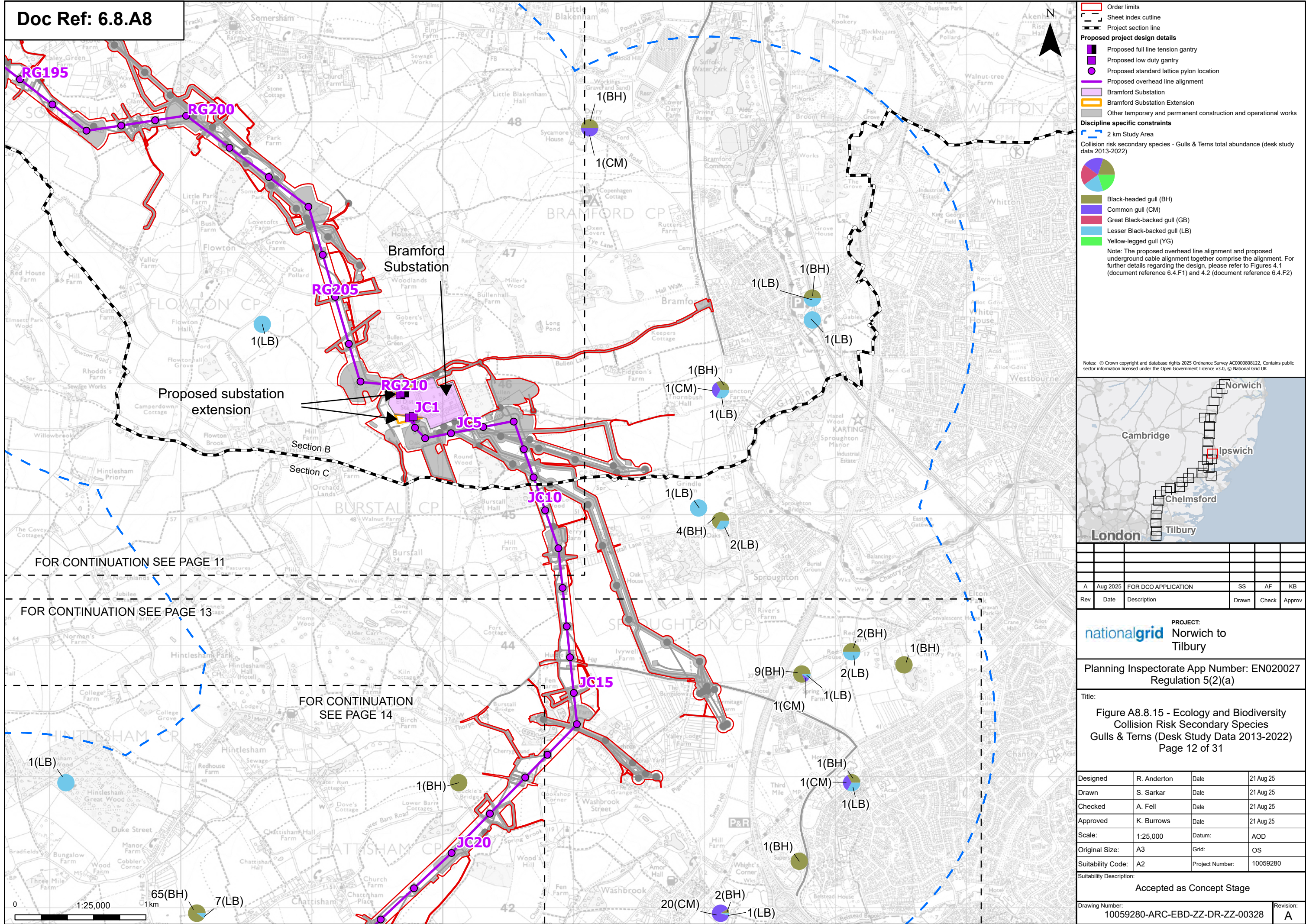
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Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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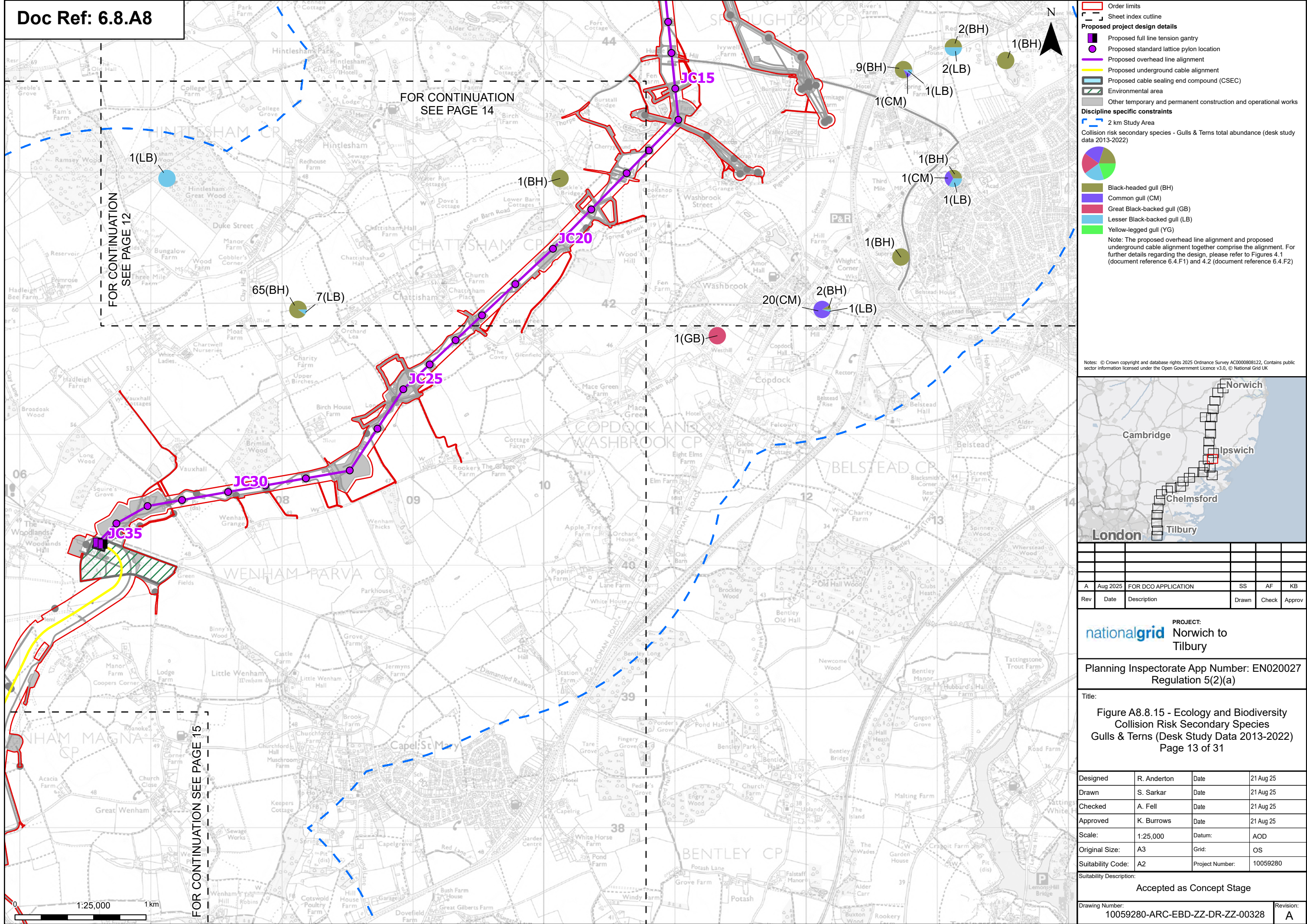
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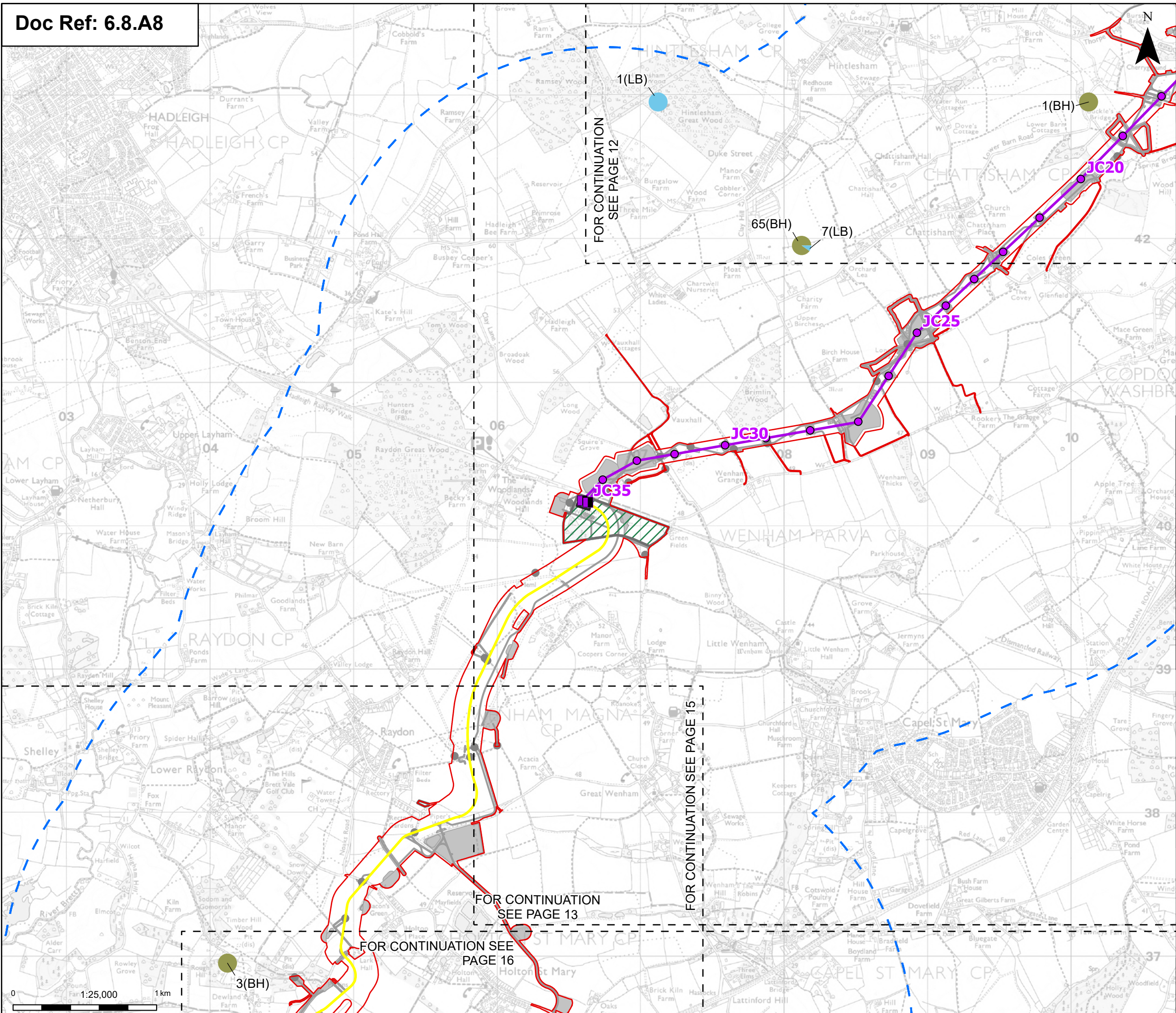












**Order limits**

**Proposed project design details**

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

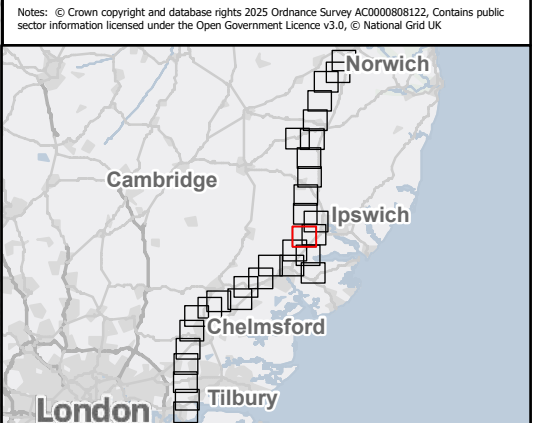
**Discipline specific constraints**

- 2 km Study Area
- Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

**Legend**

- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
- Lesser Black-backed gull (LB)
- Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)



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**PROJECT:** Norwich to Tilbury

nationalgrid

Planning Inspectorate App Number: EN020027  
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Title:

Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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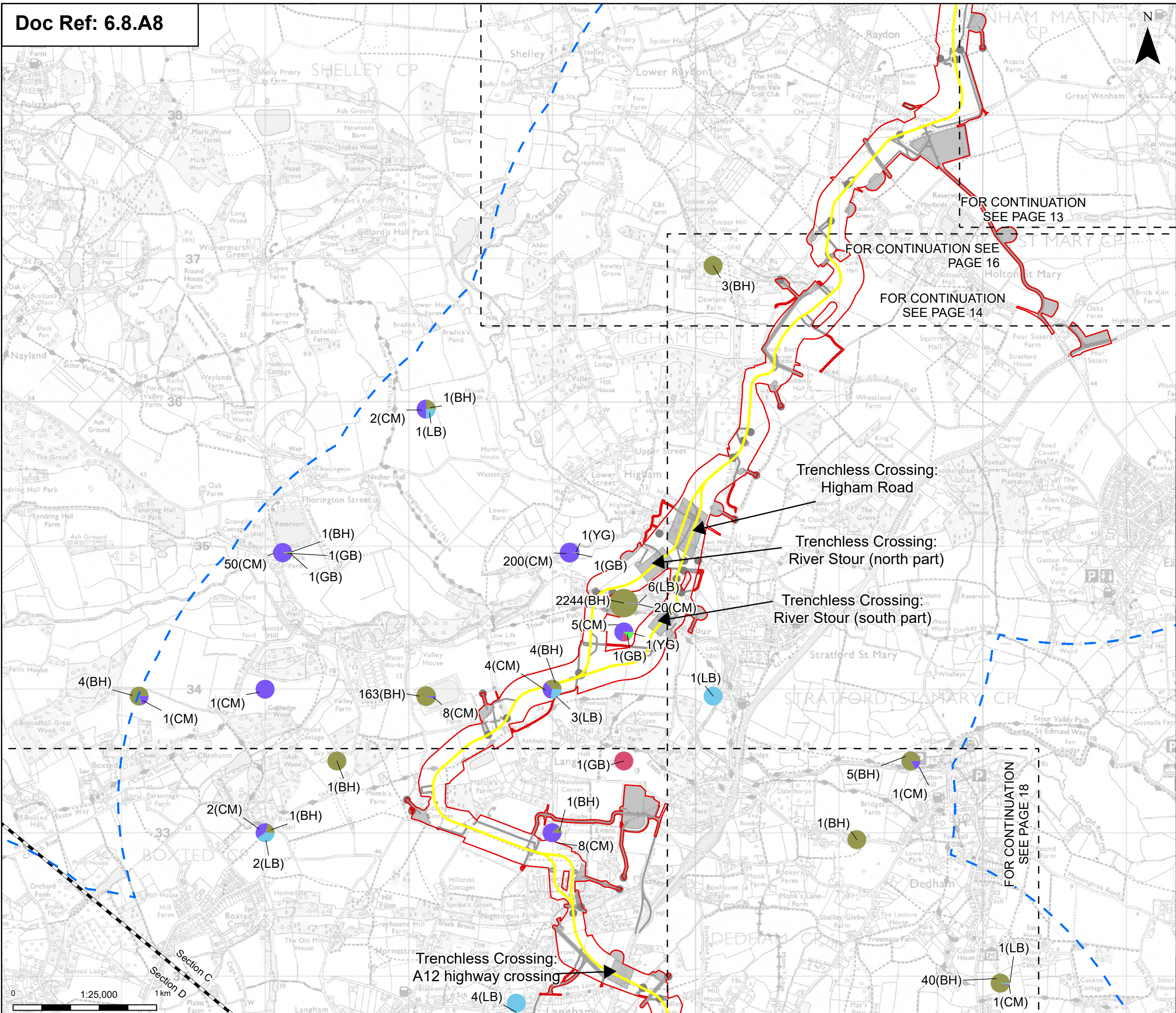
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Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00328

Revision: A





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**Project section line**

**Proposed project design details**

- Proposed underground cable alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
- Lesser Black-backed gull (LB)
- Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

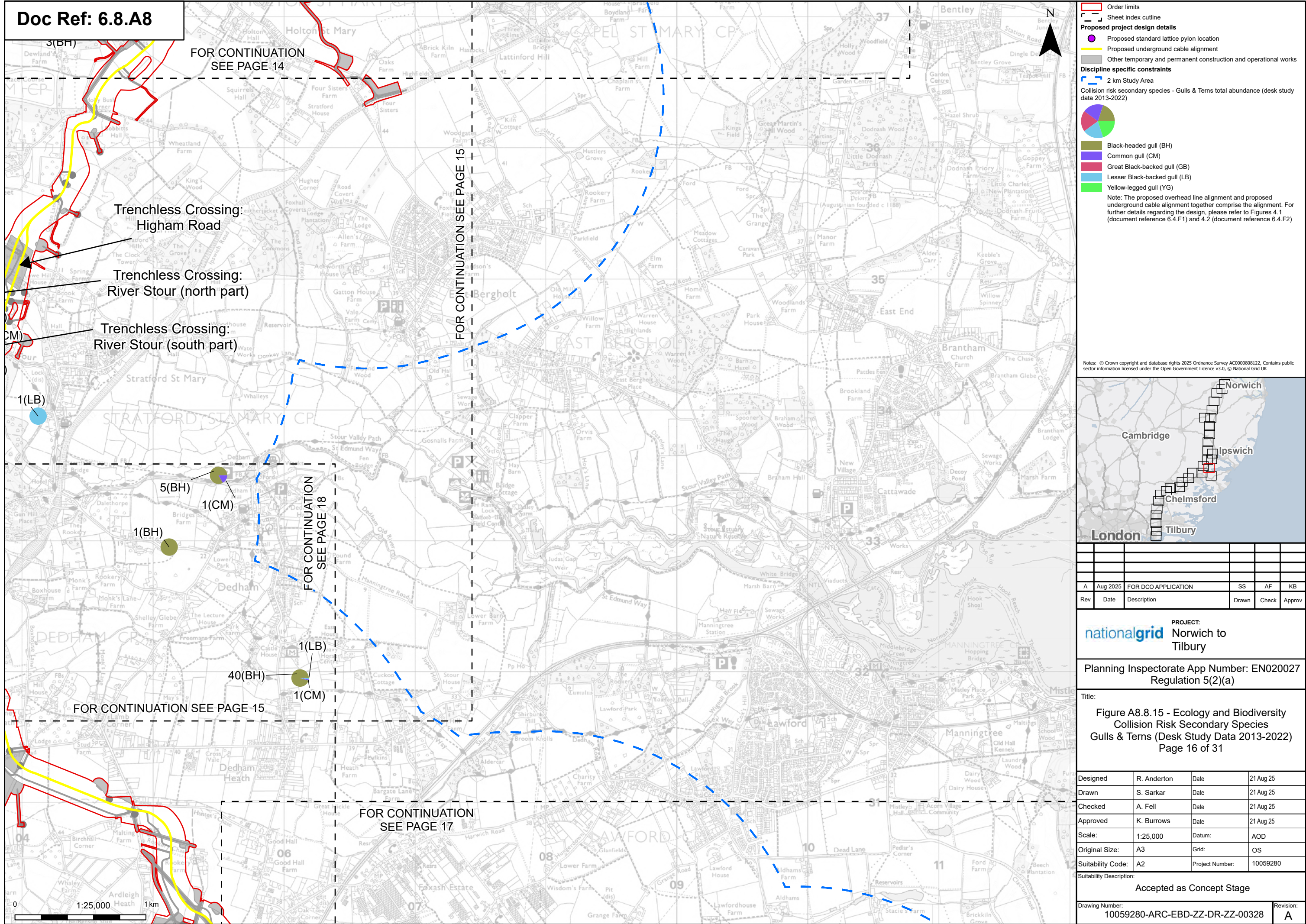
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Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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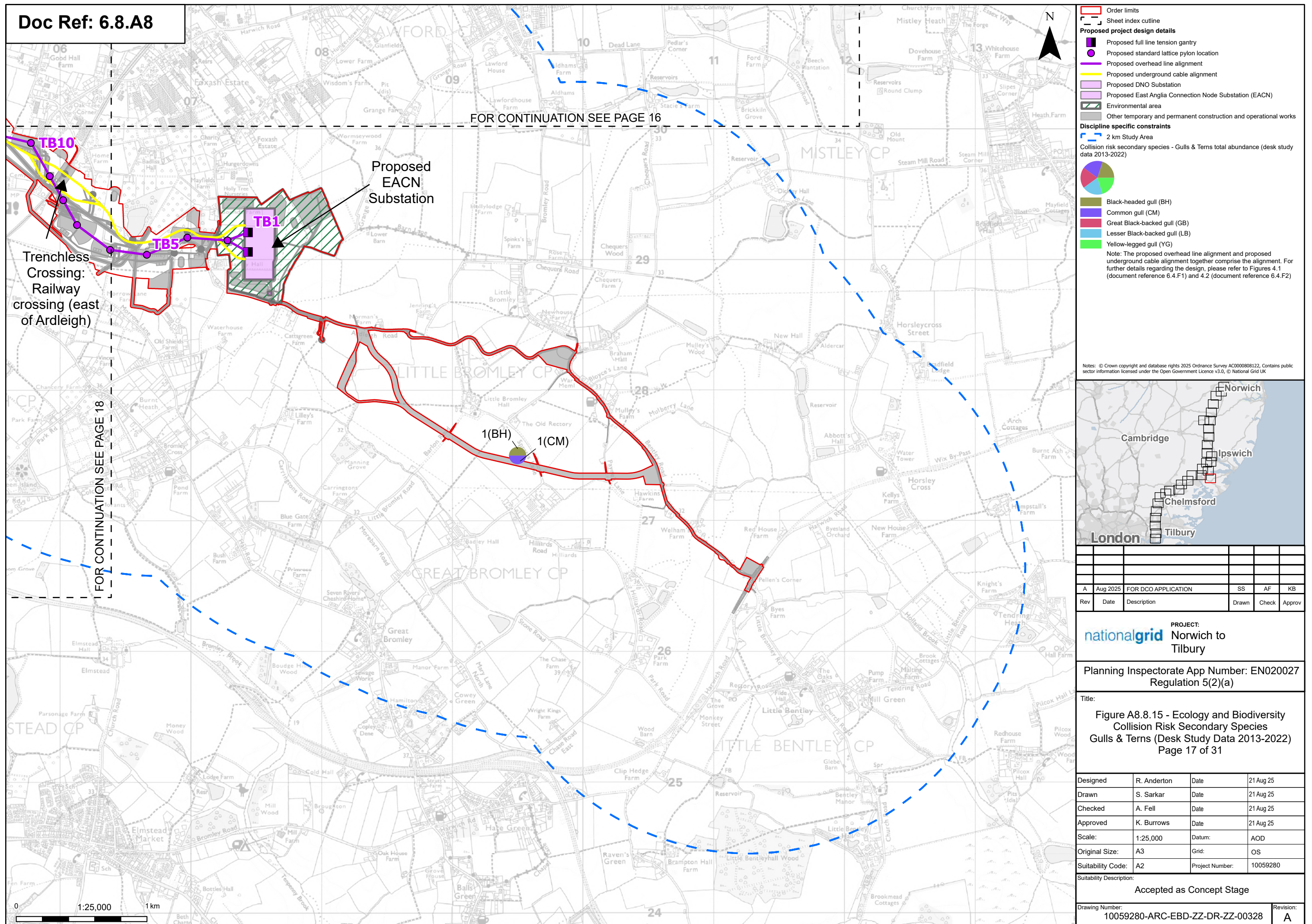
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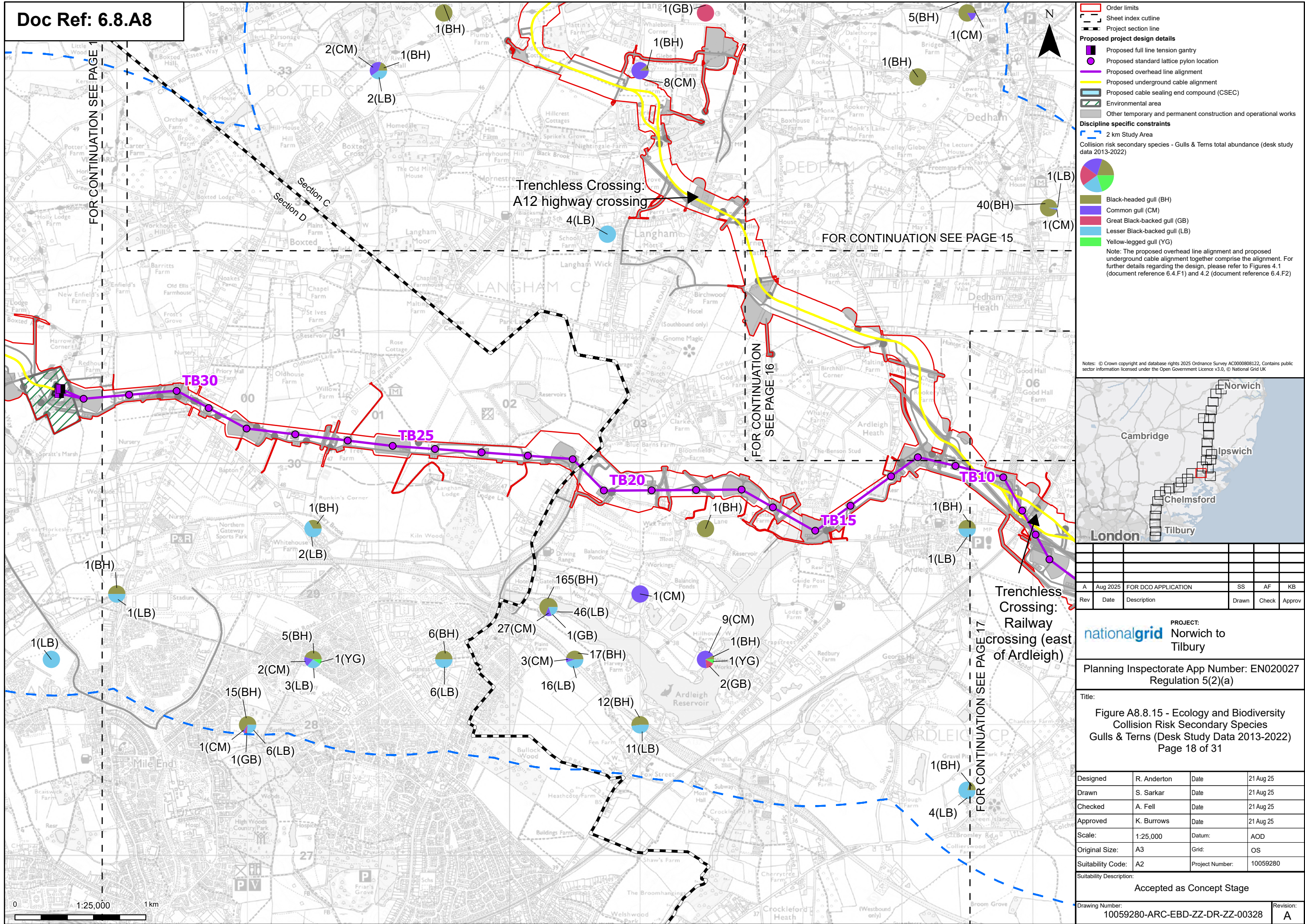




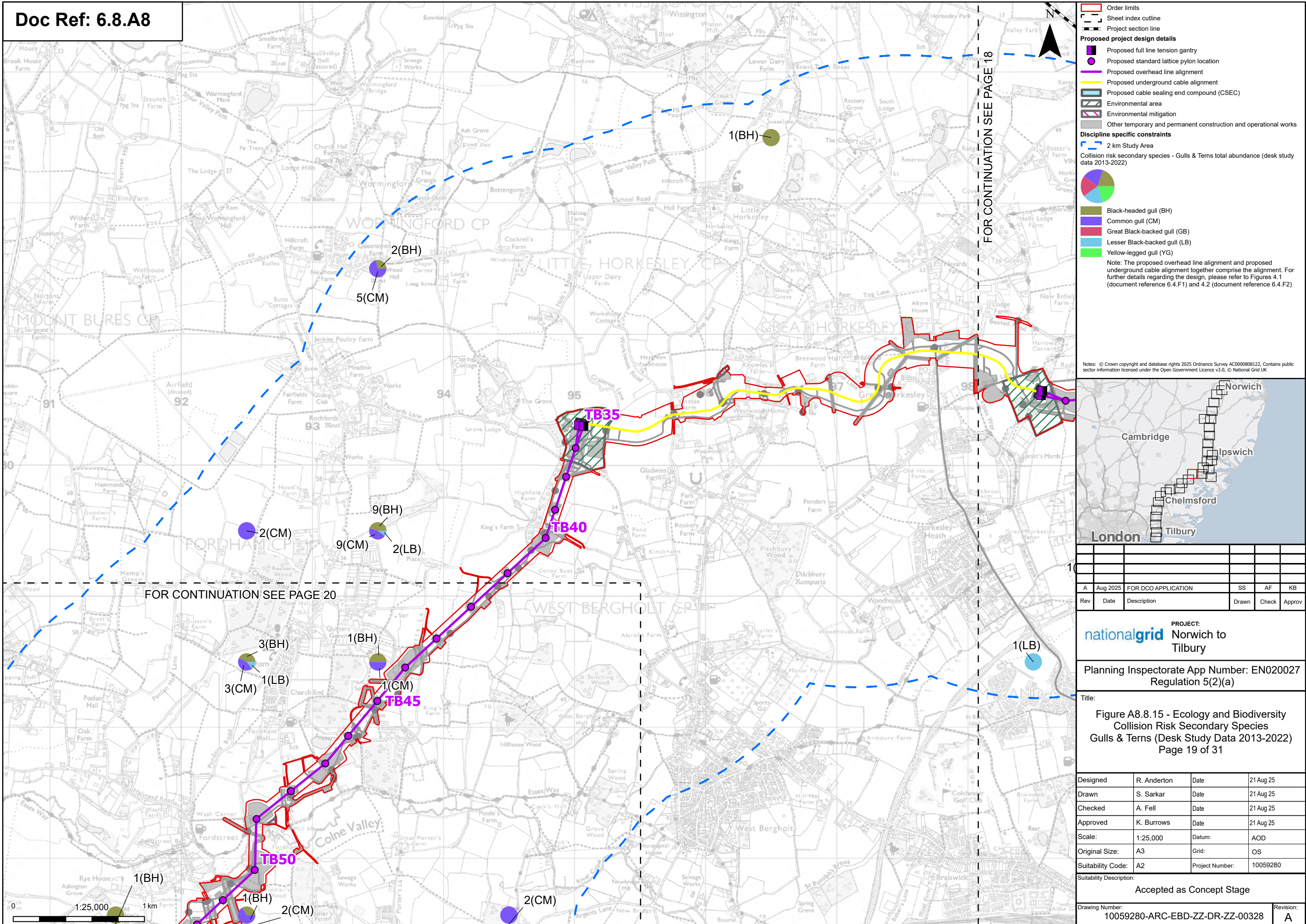




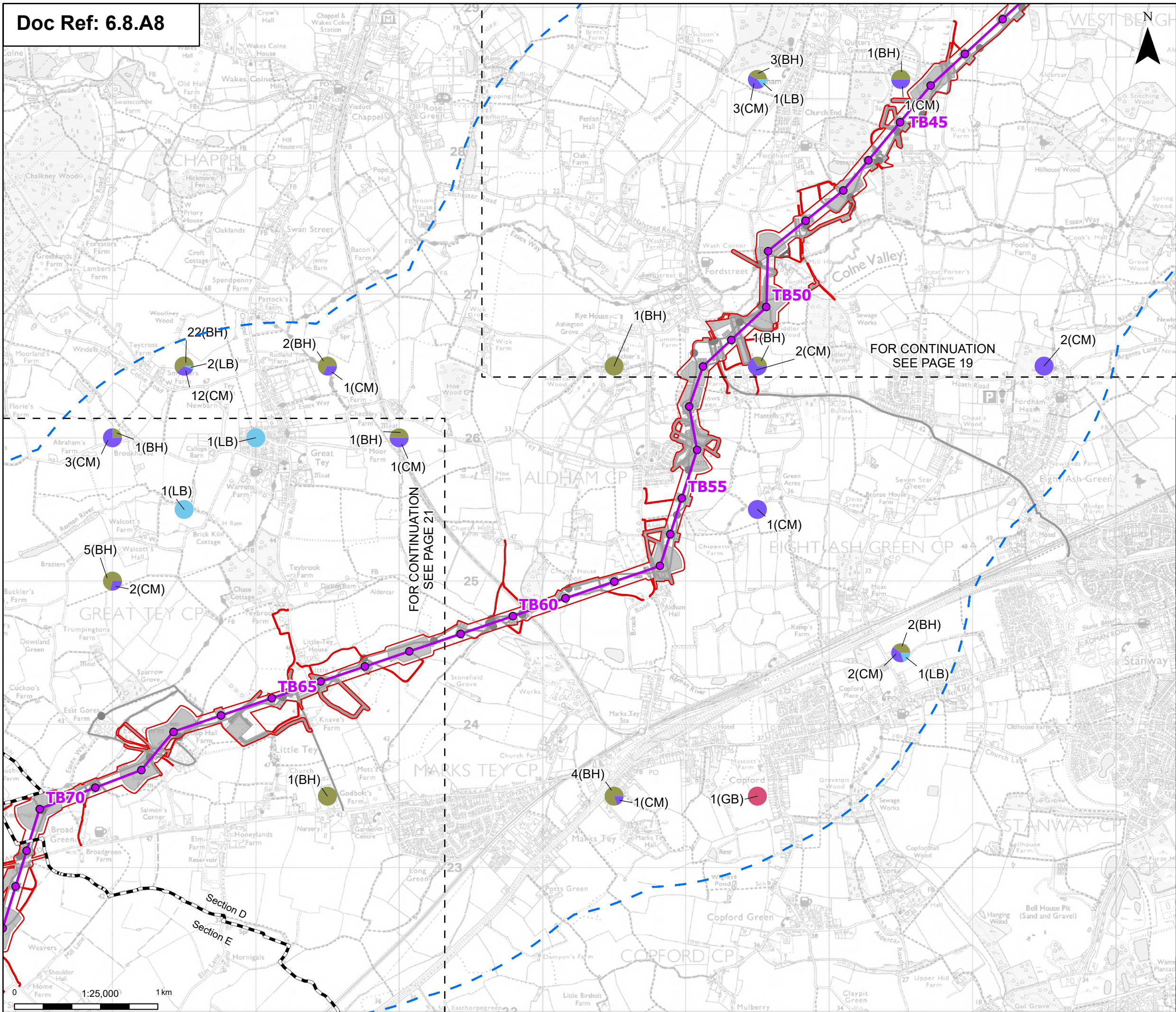












Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
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PROJECT:  
Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

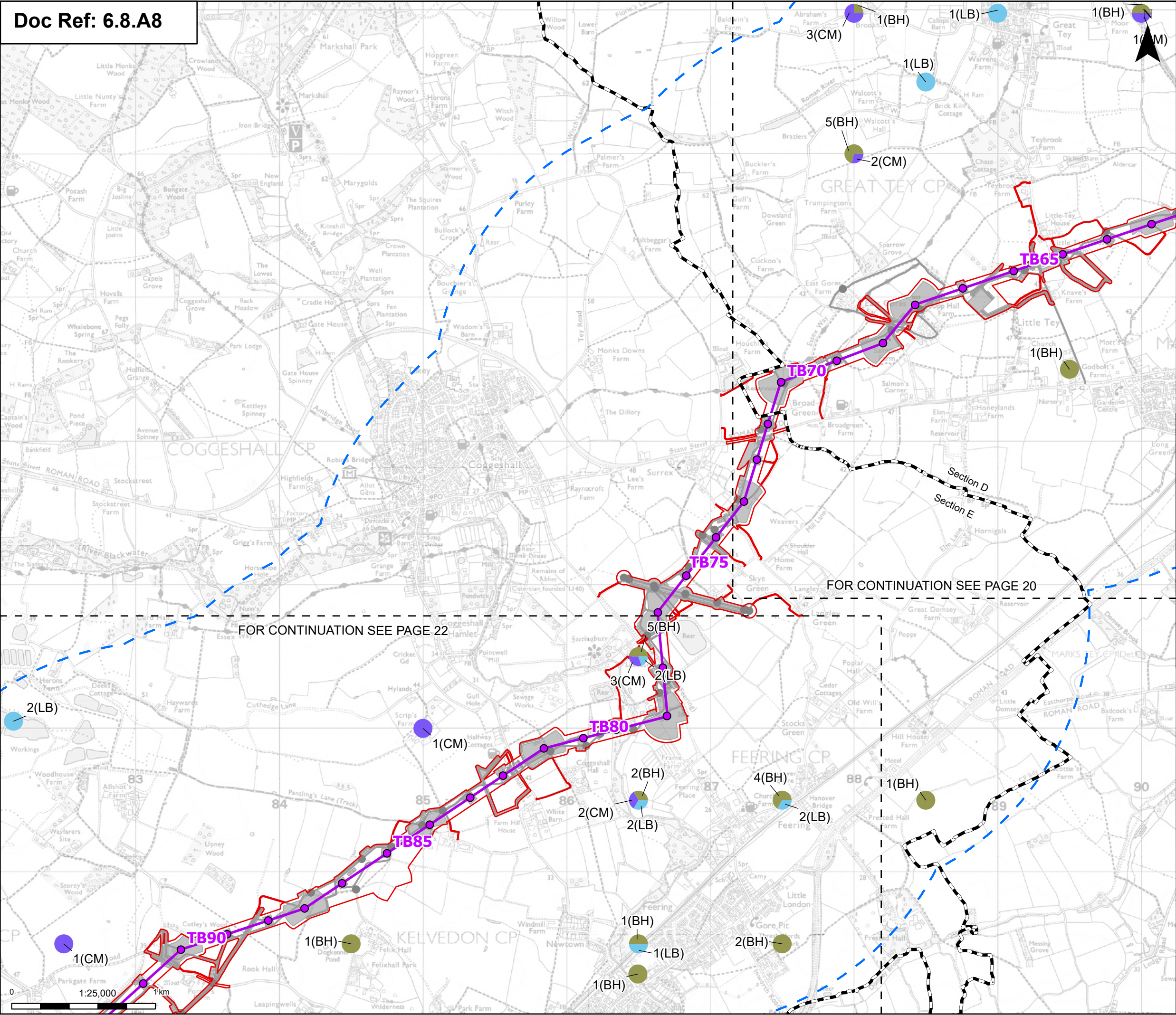
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Collision Risk Secondary Species  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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| Drawing Number:<br>10059280-ARC-EBD-ZZ-DR-ZZ-00328 | Revision:<br>A |
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**Order limits**

**Sheet index cutline**

**Project section line**

**Proposed project design details**

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

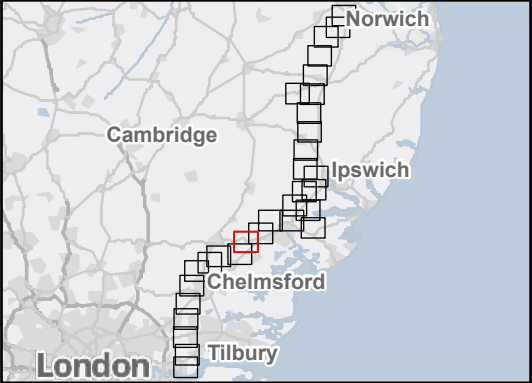
- 2 km Study Area
- Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

**Legend**

- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
- Lesser Black-backed gull (LB)
- Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

**PROJECT:**  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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Accepted as Concept Stage

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Revision: A

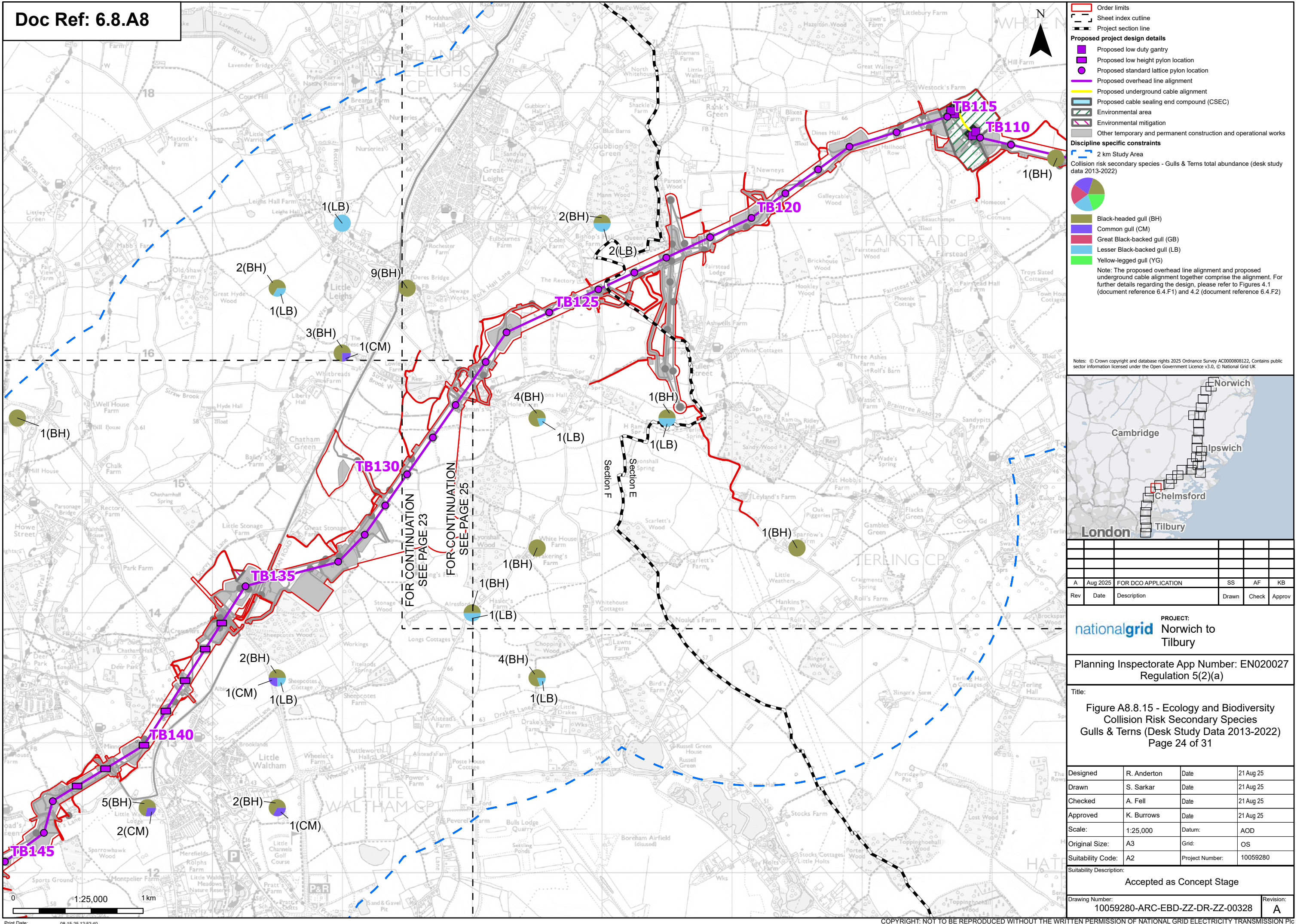




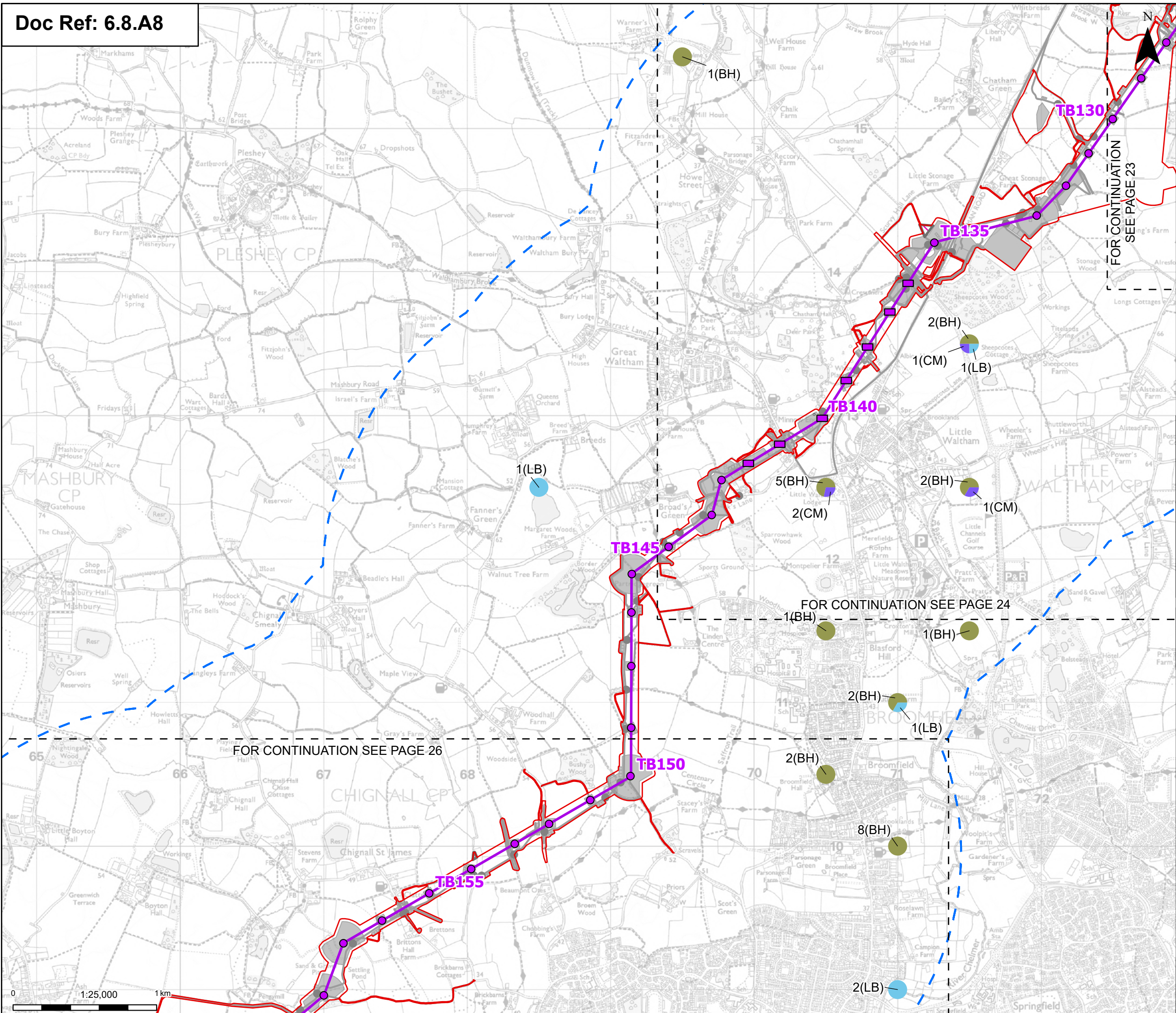












**Order limits**

**Sheet index cutline**

**Proposed project design details**

- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

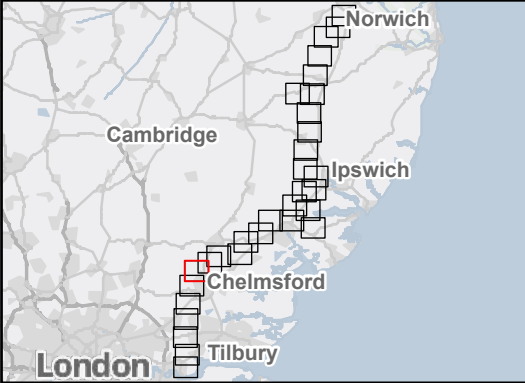
- 2 km Study Area
- Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

**Legend**

- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
- Lesser Black-backed gull (LB)
- Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

**PROJECT:**  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
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Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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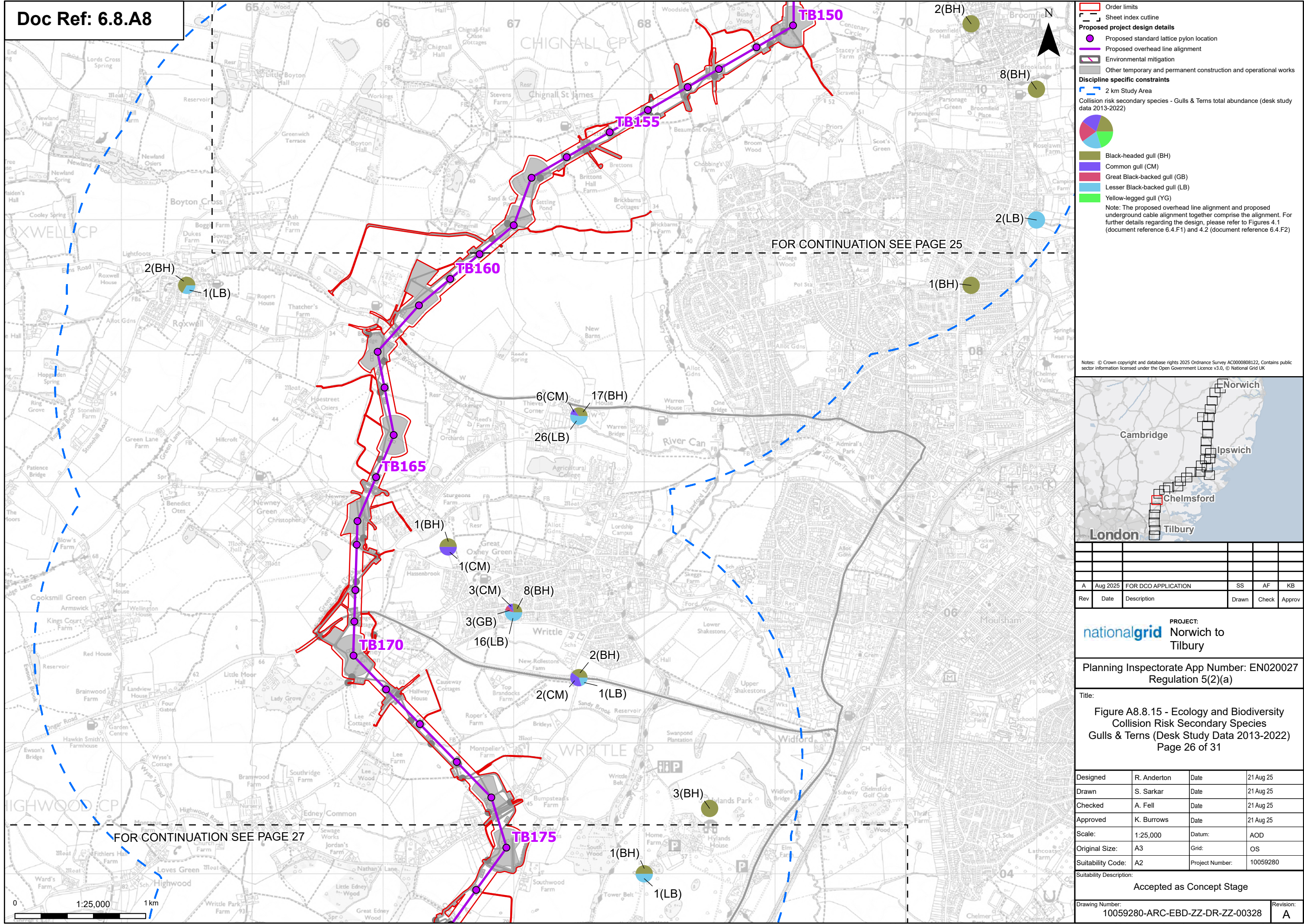
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Suitability Description:  
Accepted as Concept Stage

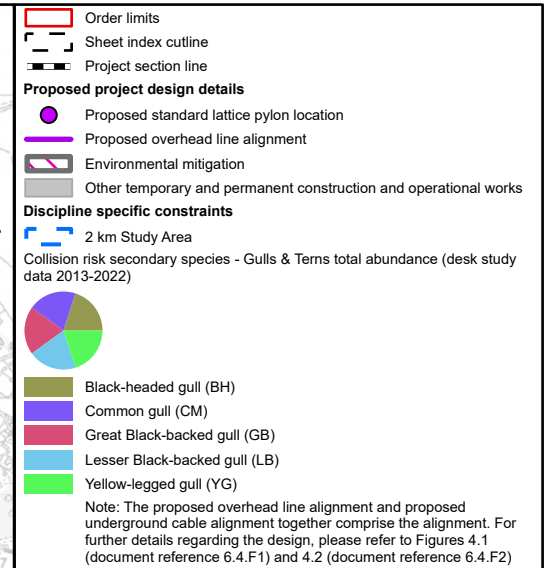
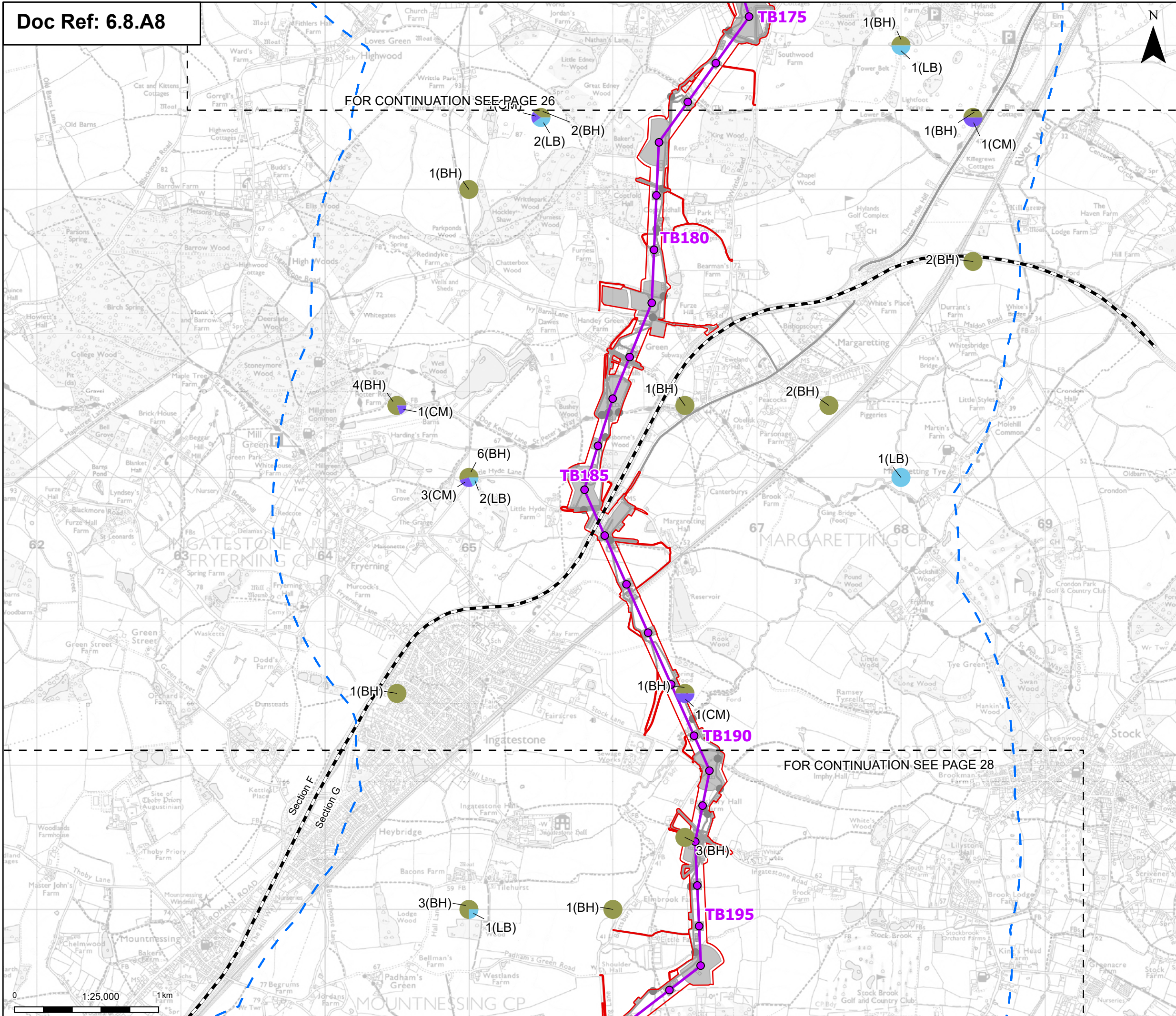
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Revision:  
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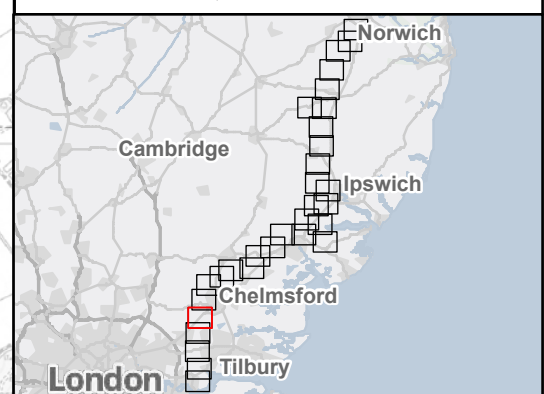








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**PROJECT:** Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

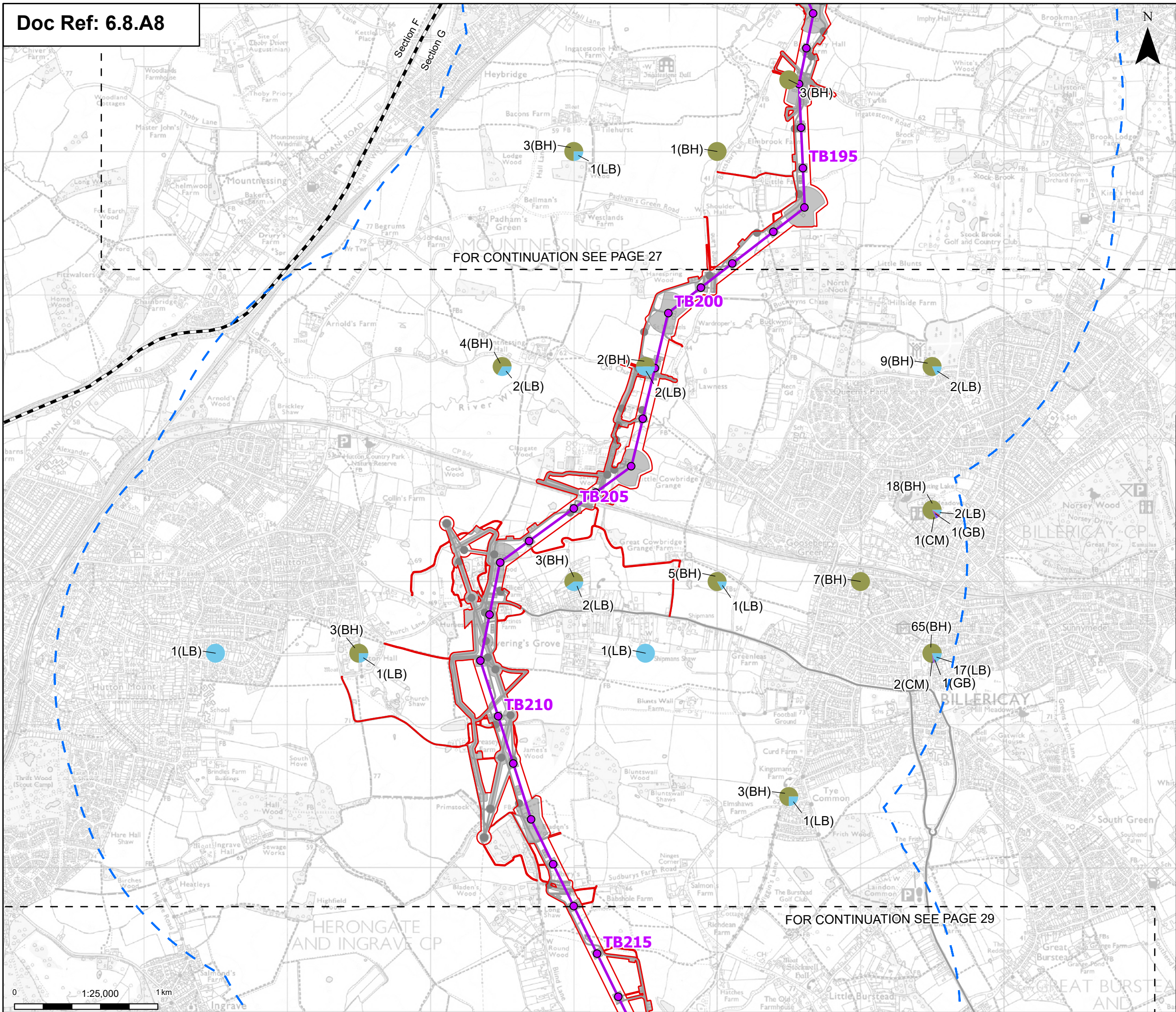
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Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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Accepted as Concept Stage

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Order limits

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Project section line

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
  
Figure A8.8.15 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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| Designed                 | R. Anderton | Date            | 21 Aug 25 |
| Drawn                    | S. Sarkar   | Date            | 21 Aug 25 |
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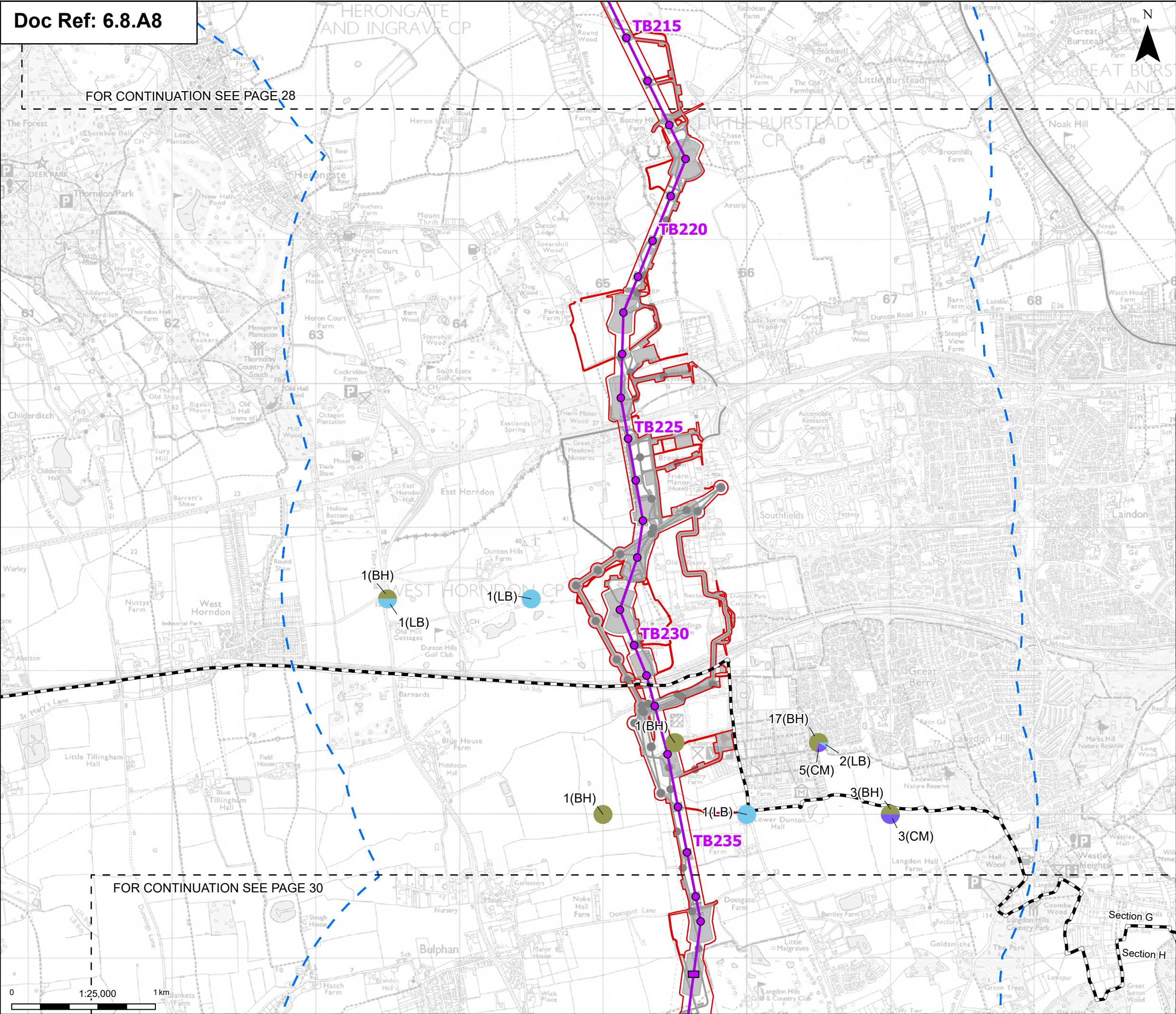
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Revision:  
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Order limits

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Project section line

**Proposed project design details**

- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area
- Collision risk secondary species - Gulls & Terns total abundance (desk study data 2013-2022)

- Black-headed gull (BH)
- Common gull (CM)
- Great Black-backed gull (GB)
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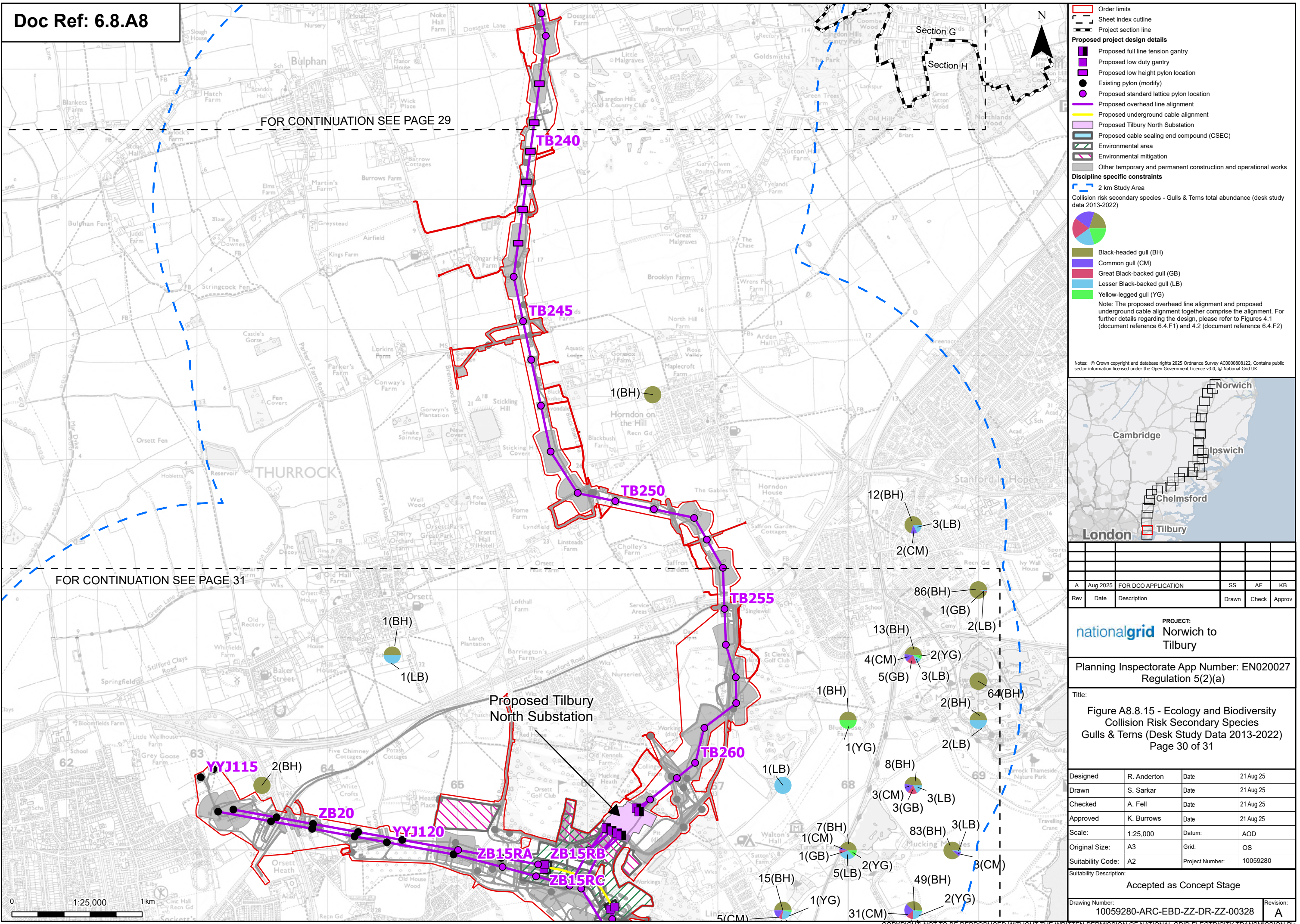
**PROJECT:**  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

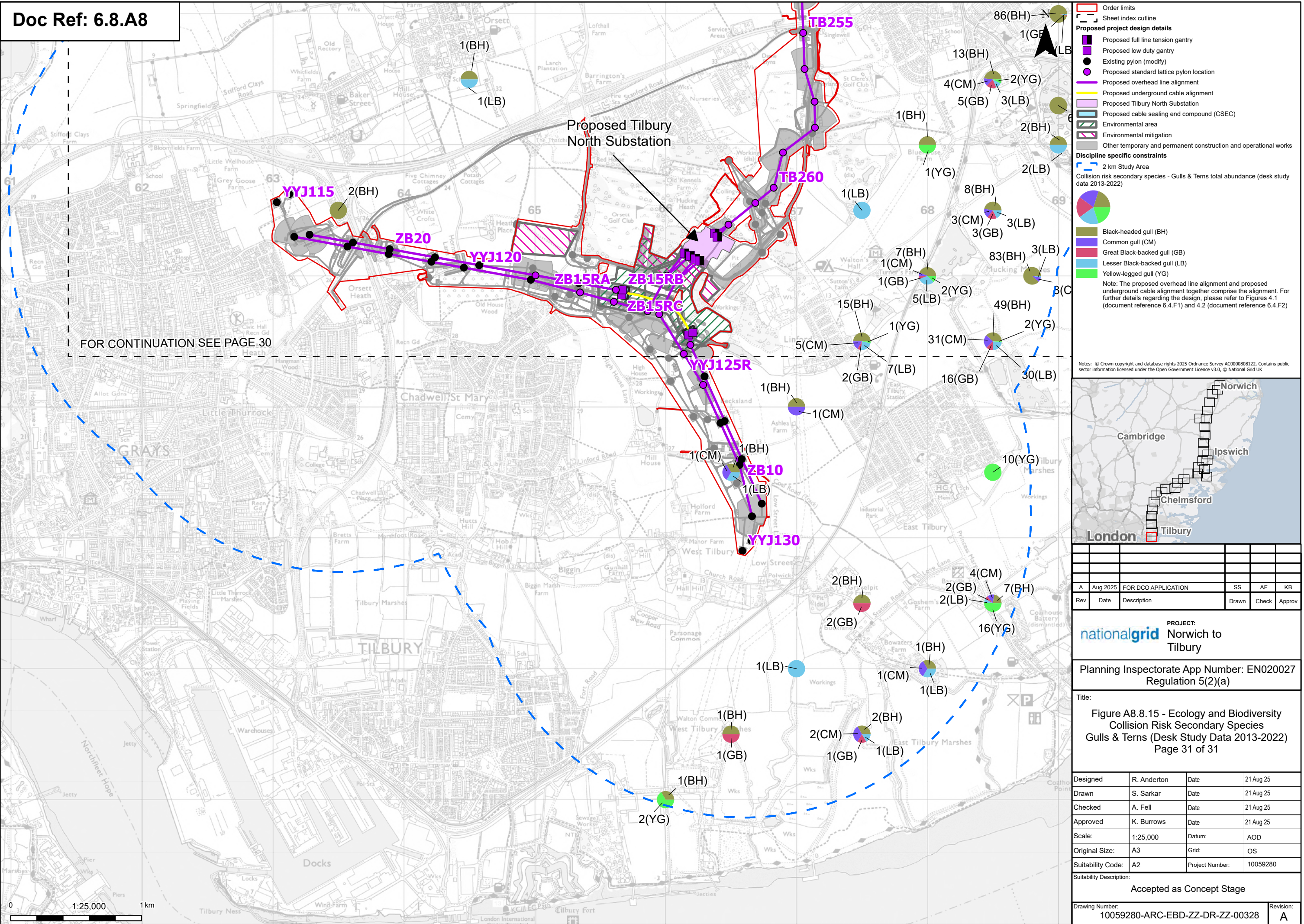
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Collision Risk Secondary Species  
Gulls & Terns (Desk Study Data 2013-2022)  
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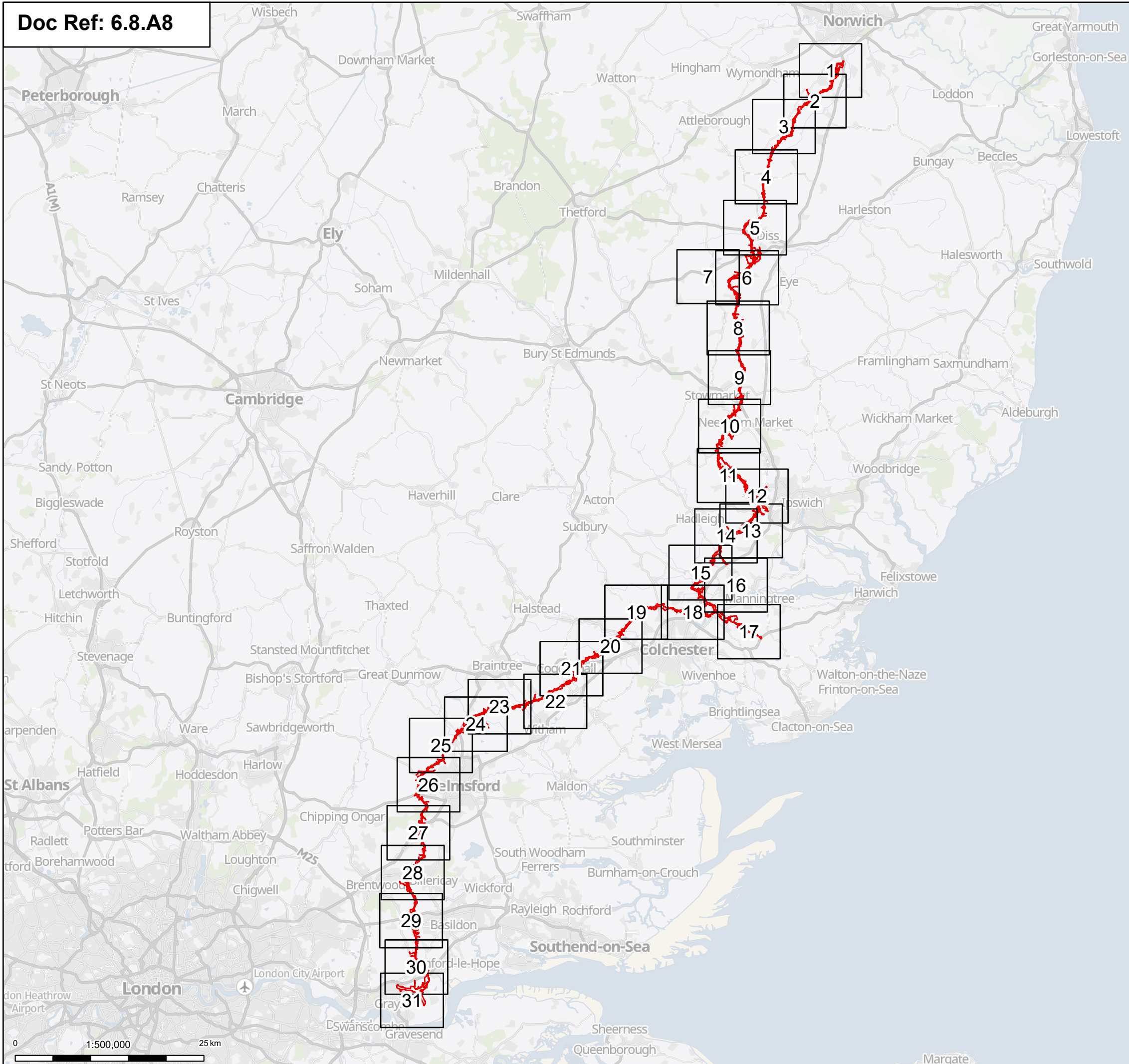




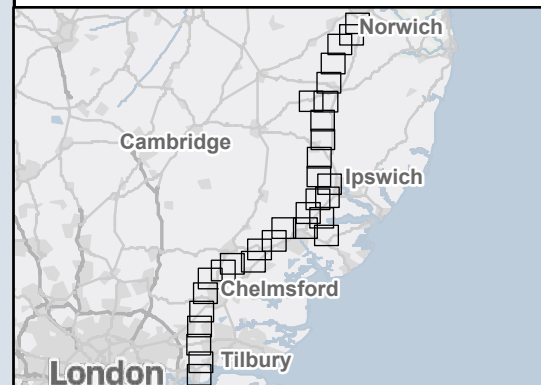








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**nationalgrid** PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title: Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
Overview

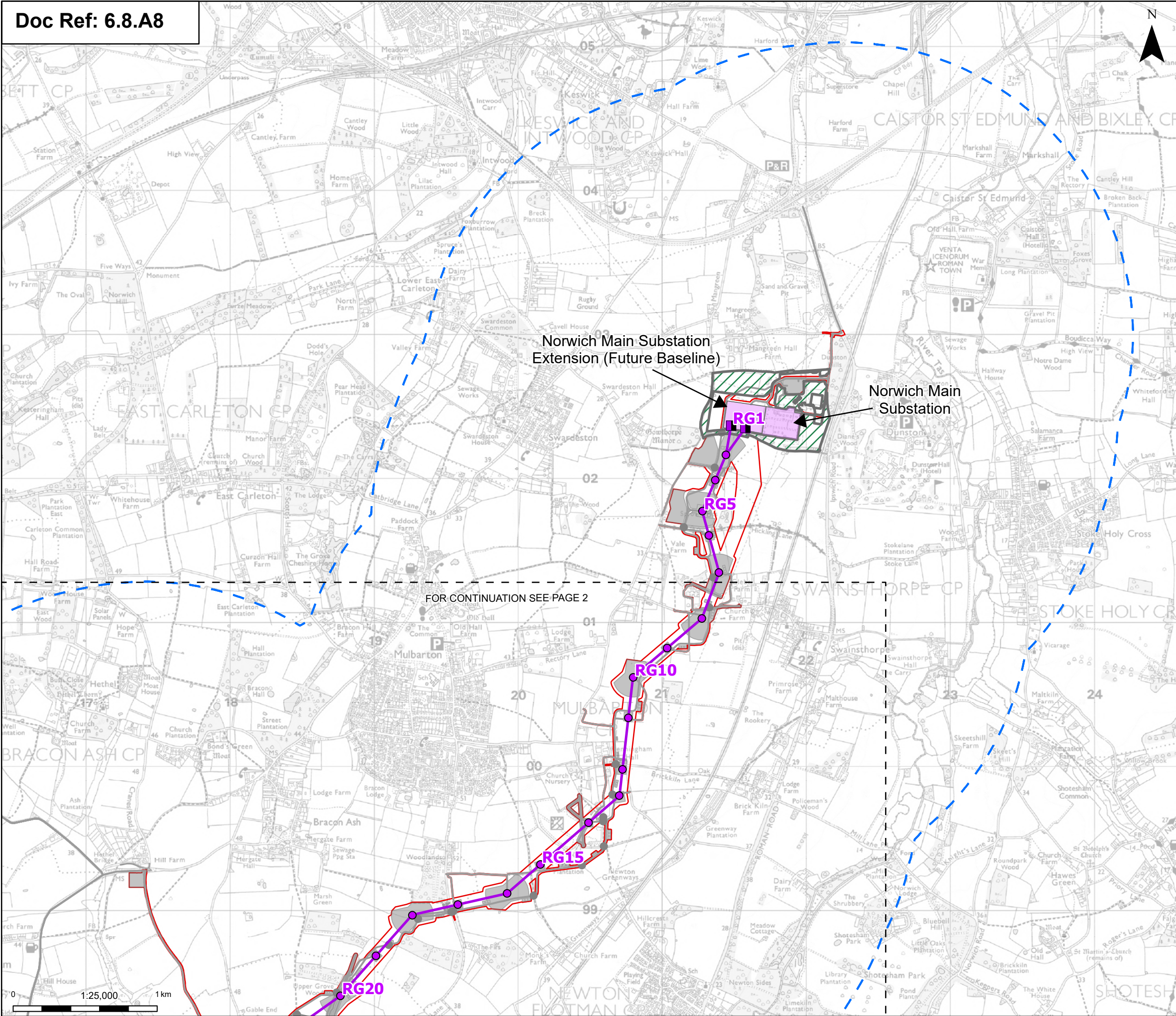
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Suitability Description:

Accepted as Concept Stage

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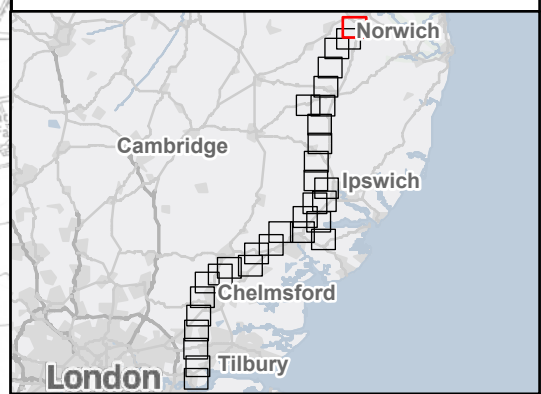
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  -  Sheet index outline
  - Proposed project design details**
    -  Proposed full line tension gantry
    -  Proposed standard lattice pylon location
    -  Proposed overhead line alignment
    -  Norwich Main Substation
    -  Norwich Main Substation Extension (future baseline)
    -  Environmental area
    -  Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    -  2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)


  -  Cormorant (CA)
  -  Gannet (GX)
  -  Great crested grebe (GG)
  -  Great white egret (HW)
  -  Grey heron (H)
  -  Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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**PROJECT:**  
Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

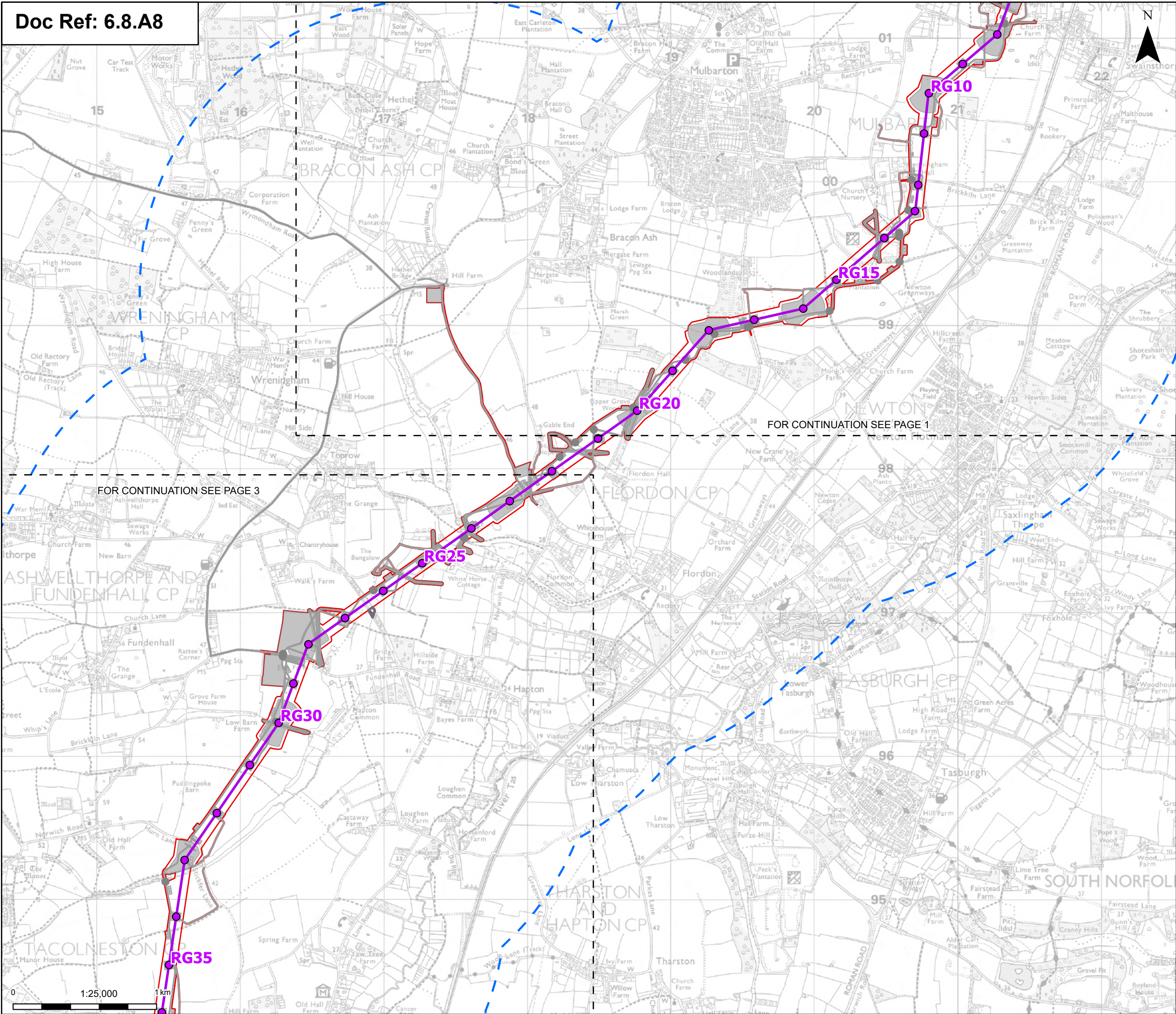
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Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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Order limits

Sheet index outline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

Great white egret (HW)

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Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)  
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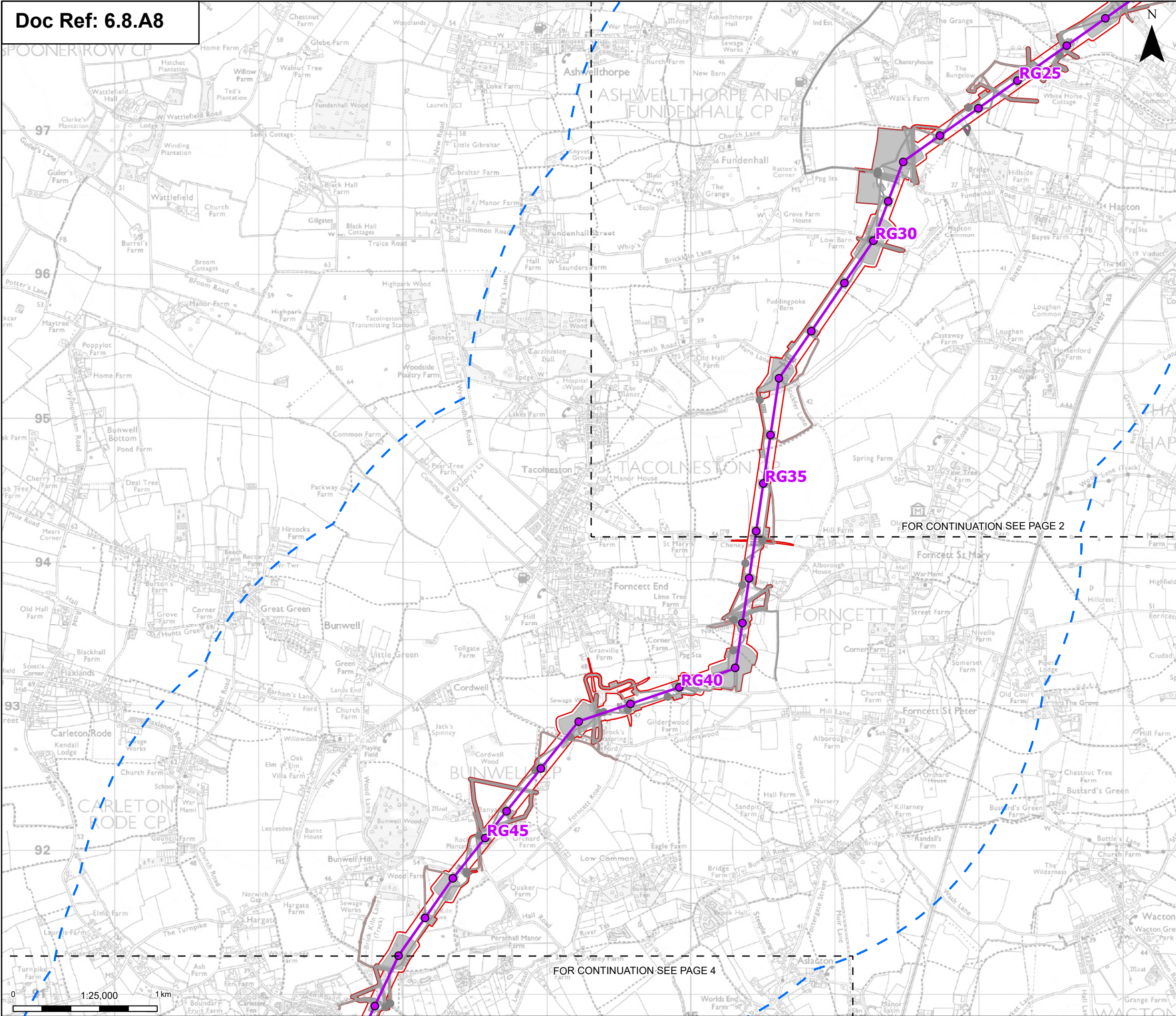
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 Order limits

 Sheet index outline

**Proposed project design details**

 Proposed standard lattice pylon location

 Proposed overhead line alignment

 Environmental mitigation

 Other temporary and permanent construction and operational works

**Discipline specific constraints**

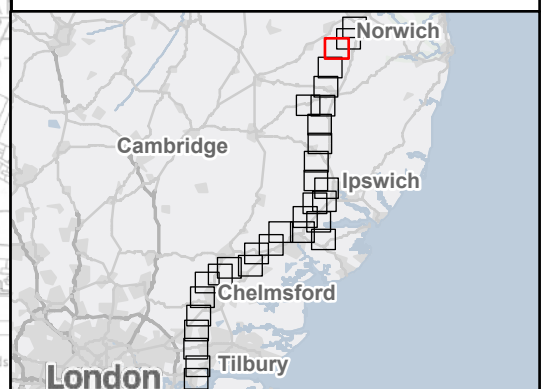
 2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)



- |                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | Cormorant (CA)           |
|  | Gannet (GX)              |
|  | Great crested grebe (GG) |
|  | Great white egret (HW)   |
|  | Grey heron (H)           |
|  | Little grebe (LG)        |
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

**PROJECT:**  
Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title: Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

Accepted as Concept Stage

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| Drawing Number:<br>10059280-ARC-EBD-ZZ-DR-ZZ-00329 | Revision:<br>A |
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

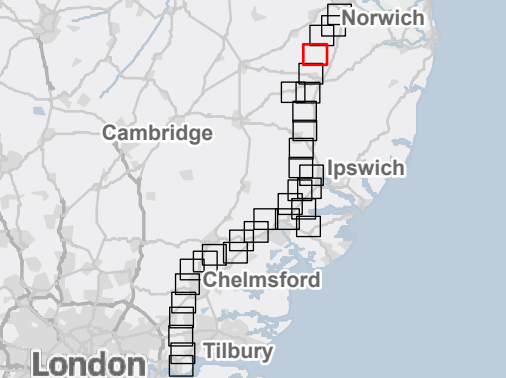
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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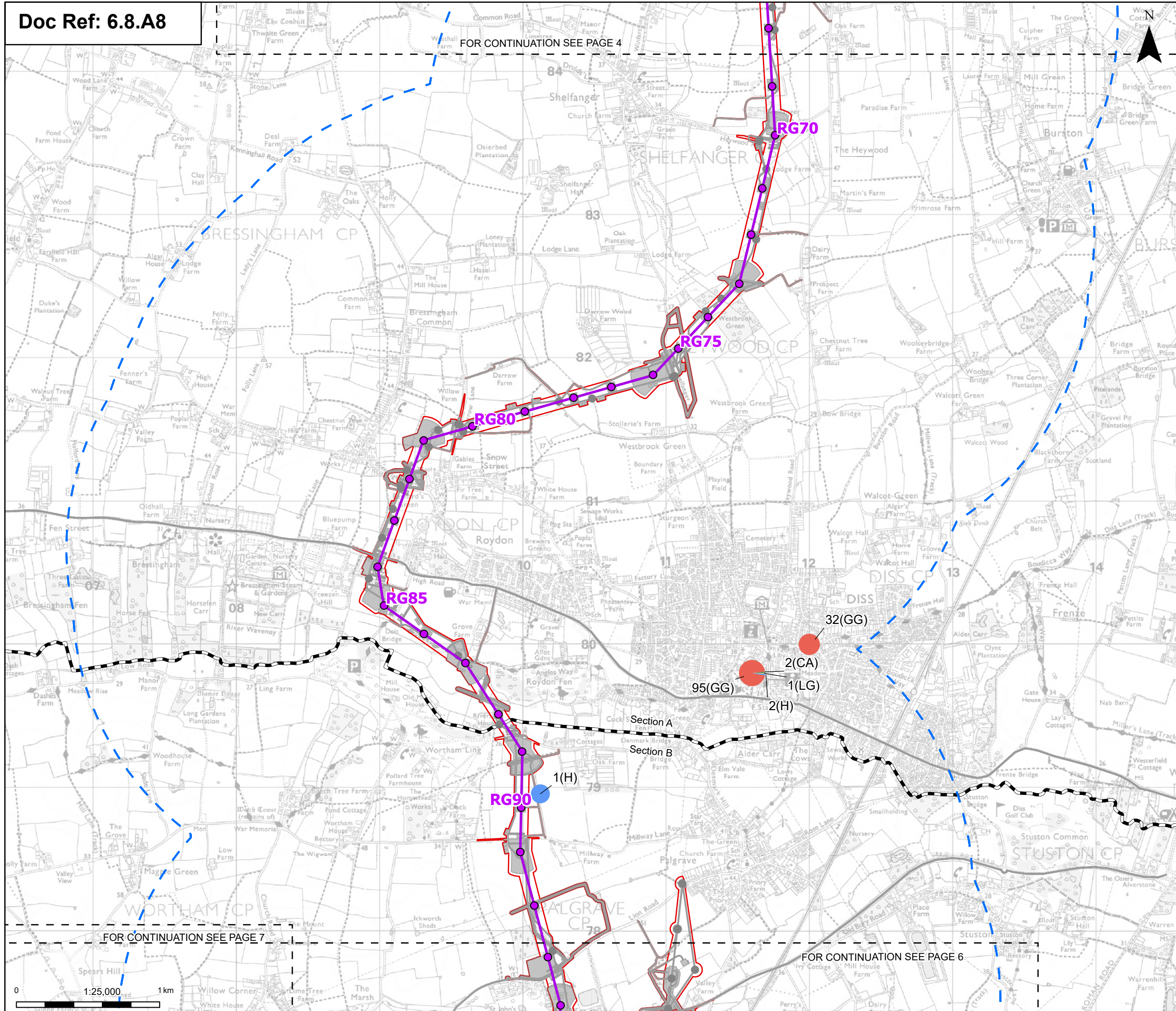
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

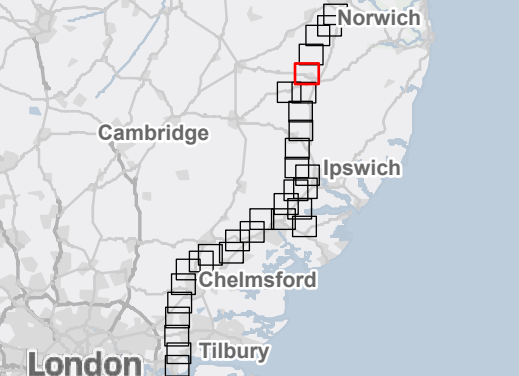
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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| Drawing Number:<br>10059280-ARC-EBD-ZZ-DR-ZZ-00329 | Revision:<br>A |
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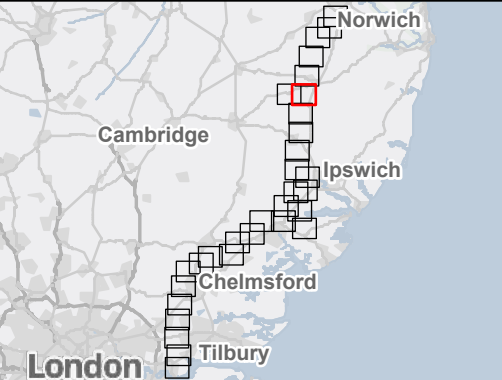
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- Sheet index cutline
- Proposed project design details**
- Proposed standard lattice pylon location
  - Proposed overhead line alignment
  - Environmental mitigation
  - Other temporary and permanent construction and operational works
- Discipline specific constraints**
- 2 km Study Area
- Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)



- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
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nationalgrid Norwich to  
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Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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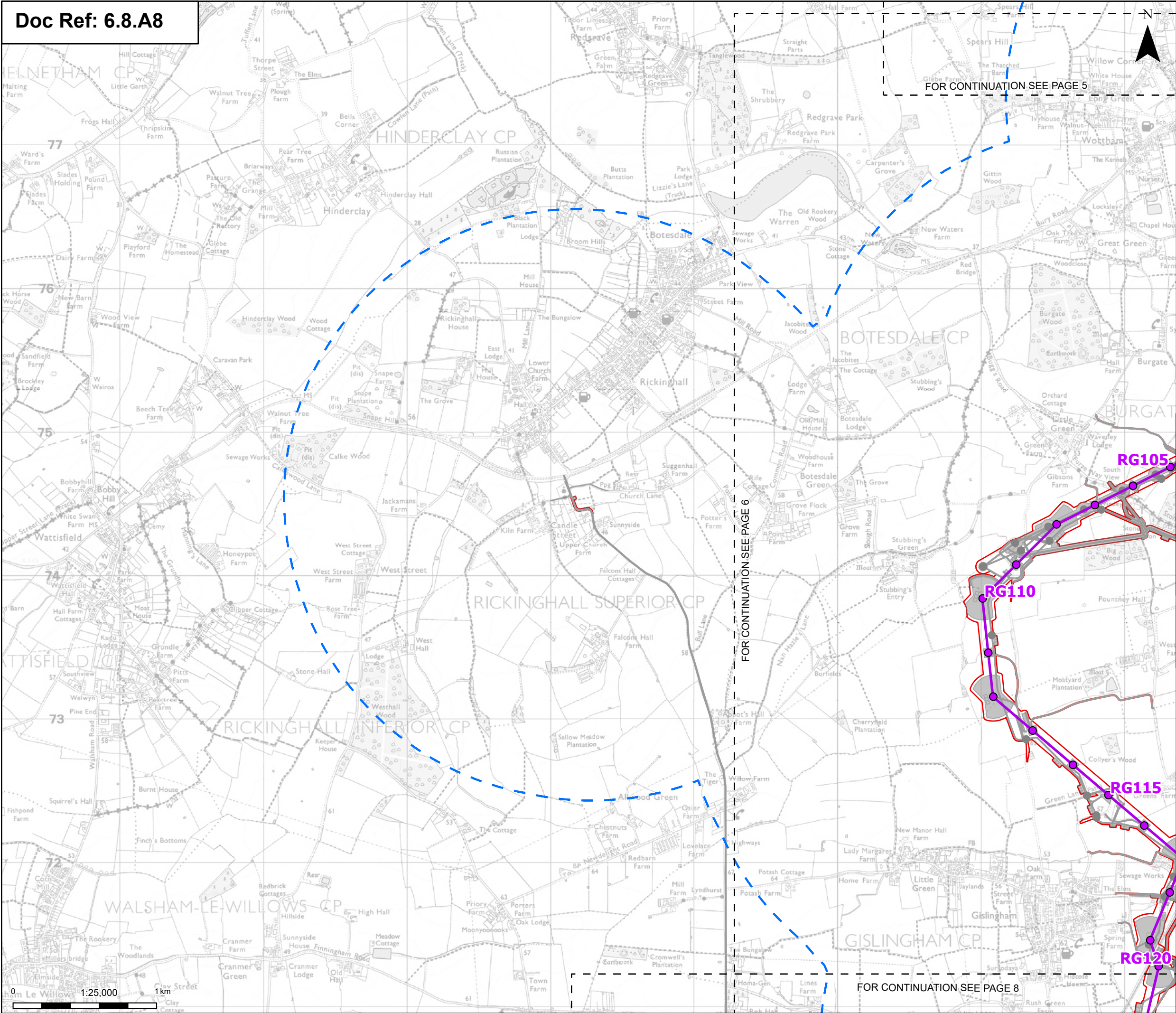
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Suitability Description:  
Accepted as Concept Stage

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10059280-ARC-EBD-ZZ-DR-ZZ-00329

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Order limits

Sheet index outline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

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Norwich to  
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Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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Order limits

Sheet index outline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

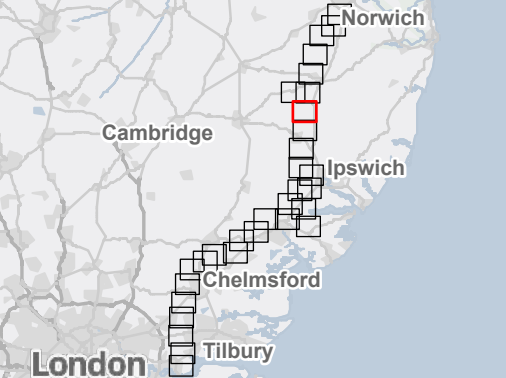
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
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Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)  
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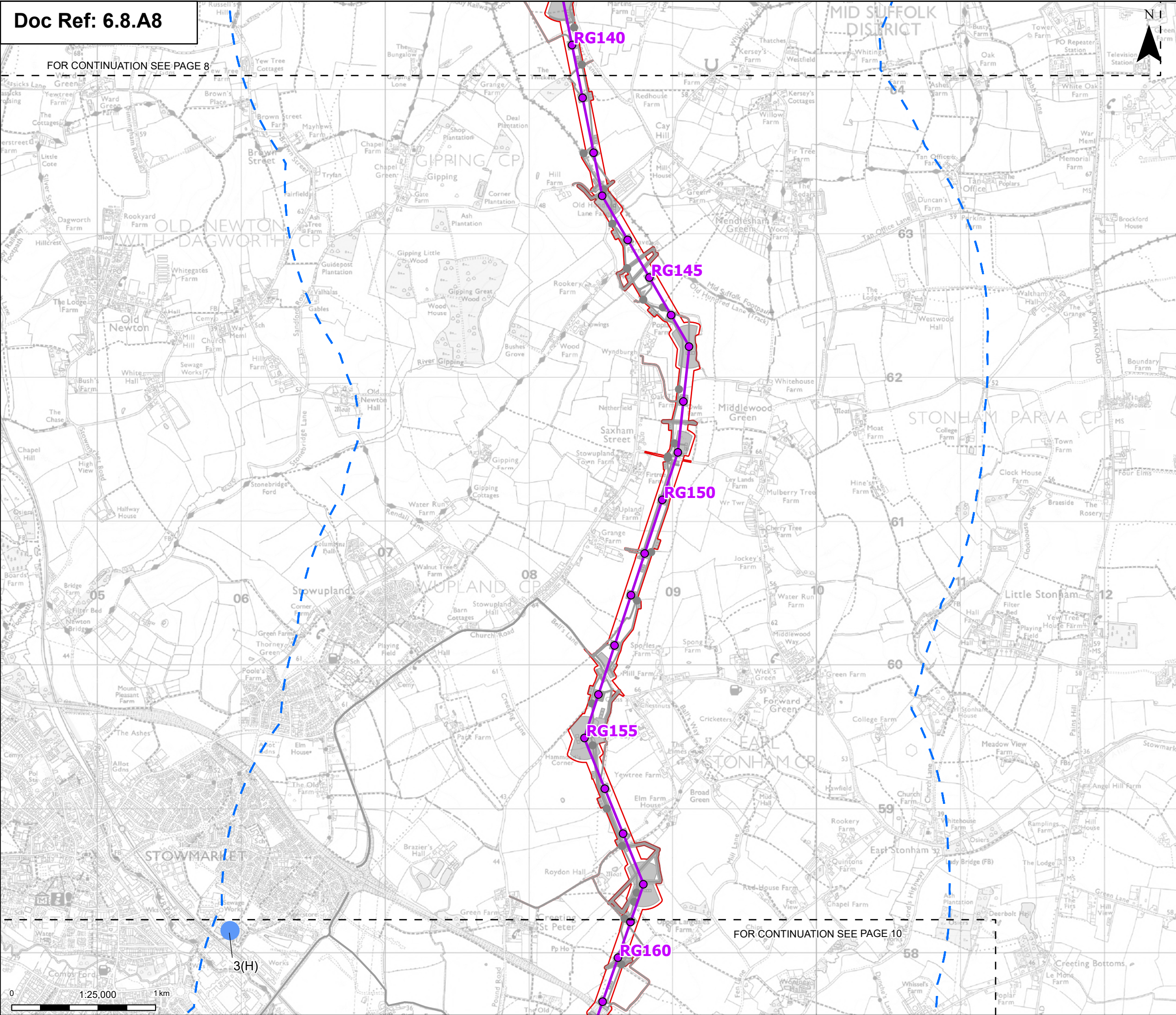
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Suitability Description:  
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

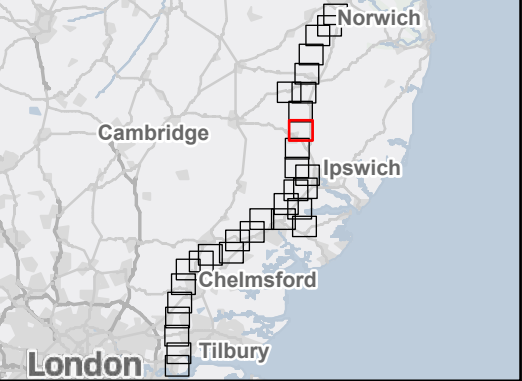
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

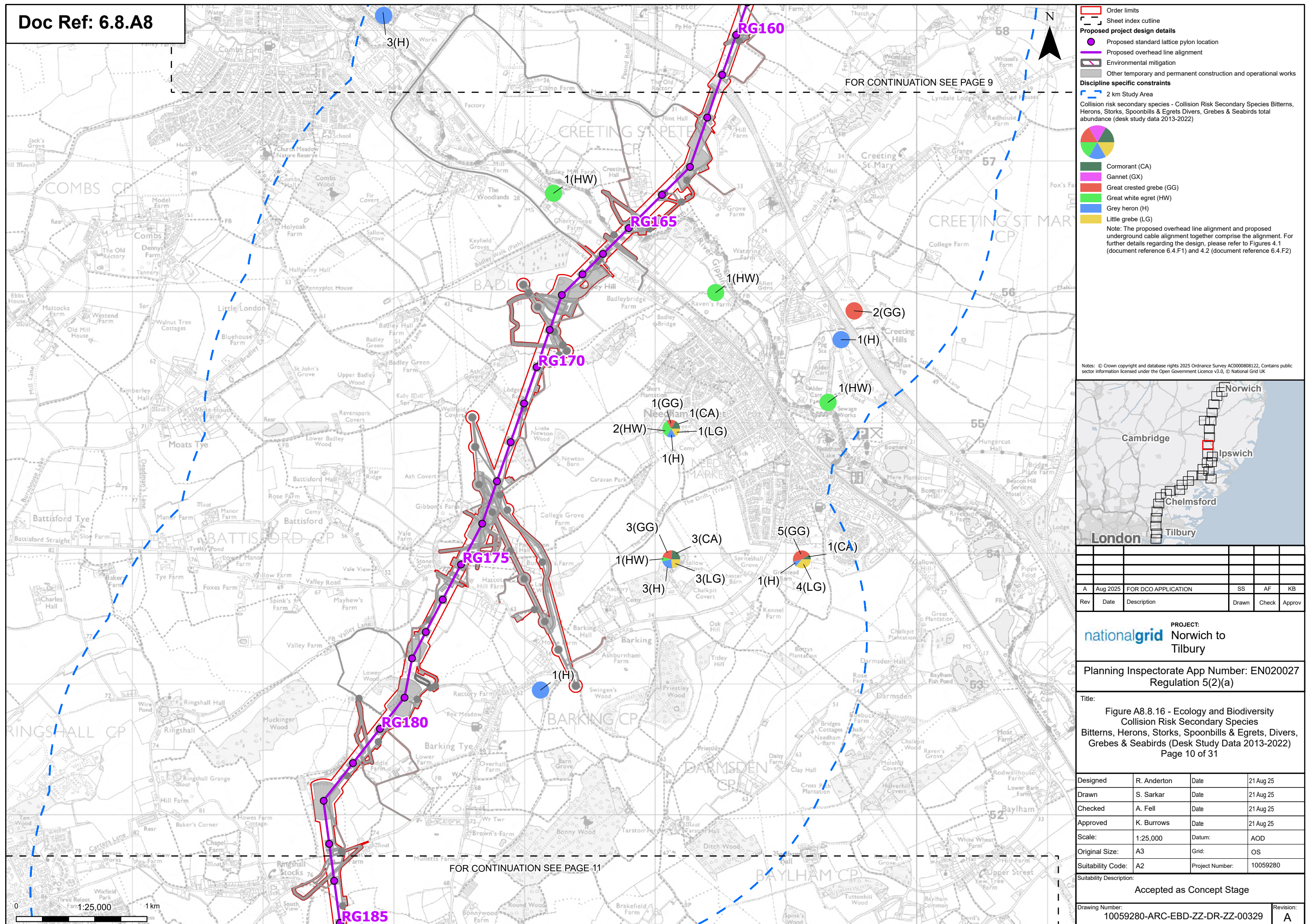
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Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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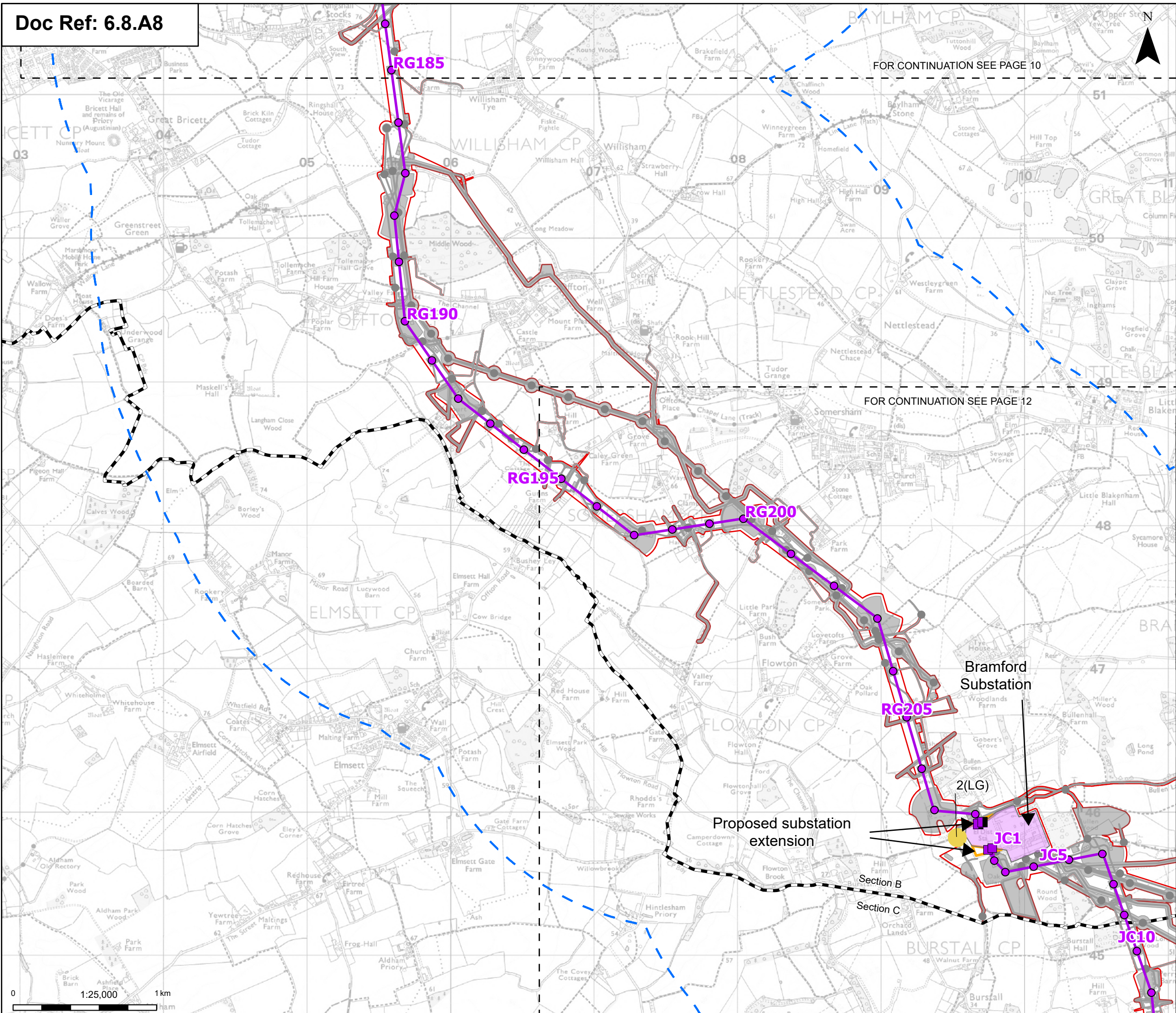
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Project section line

Proposed project design details

Proposed full line tension gantry

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Bramford Substation

Bramford Substation Extension

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

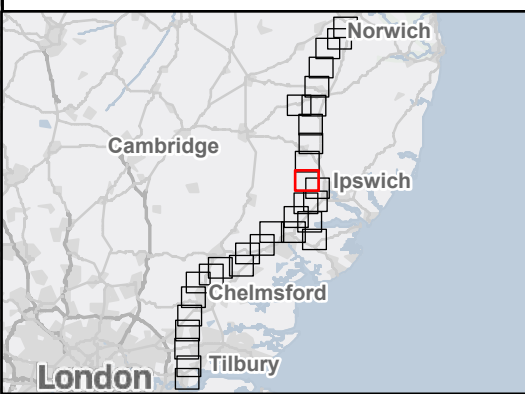
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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PROJECT:  
nationalgrid Norwich to  
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Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

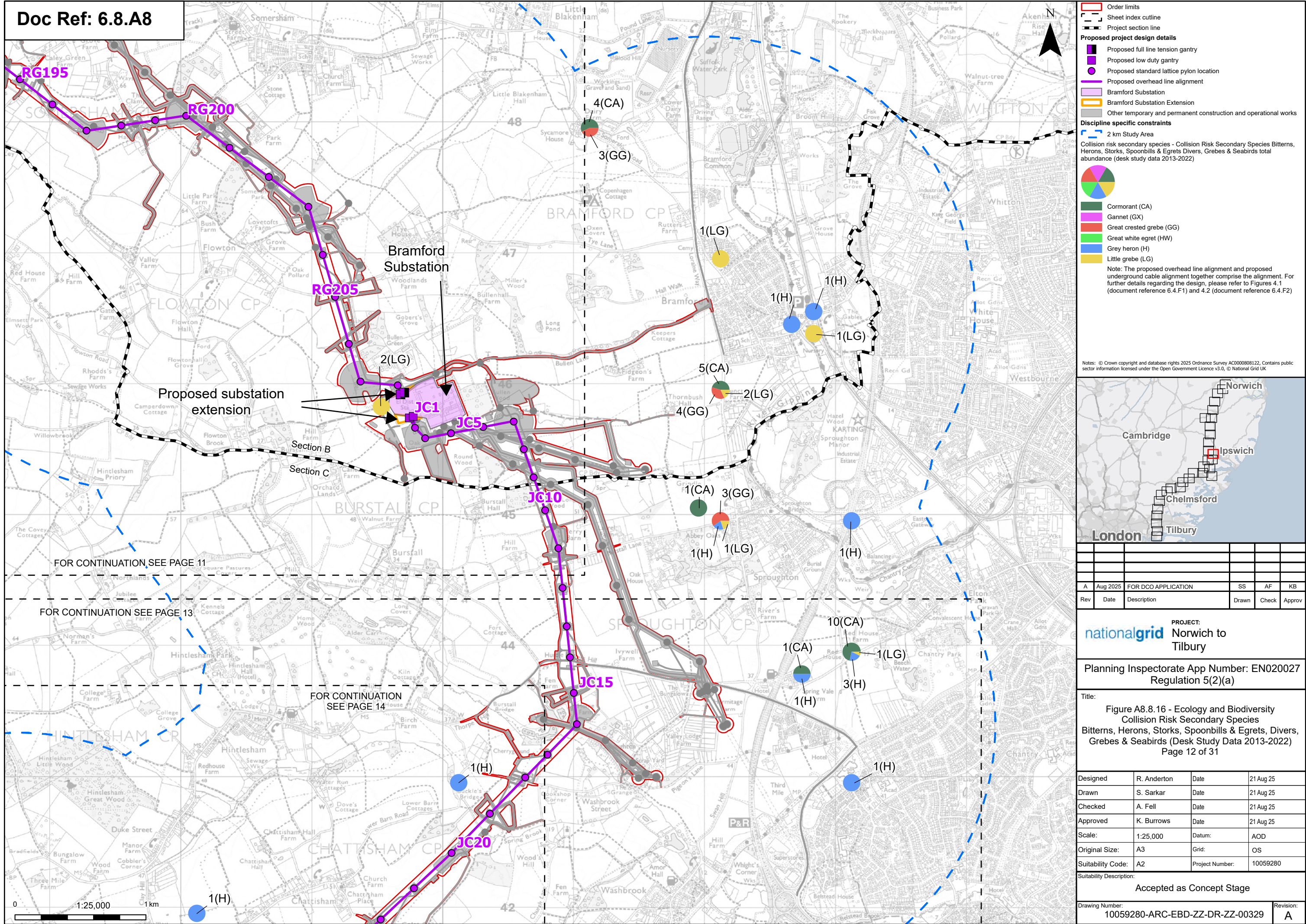
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Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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Suitability Description:  
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| Drawing Number:<br>10059280-ARC-EBD-ZZ-DR-ZZ-00329 | Revision:<br>A |
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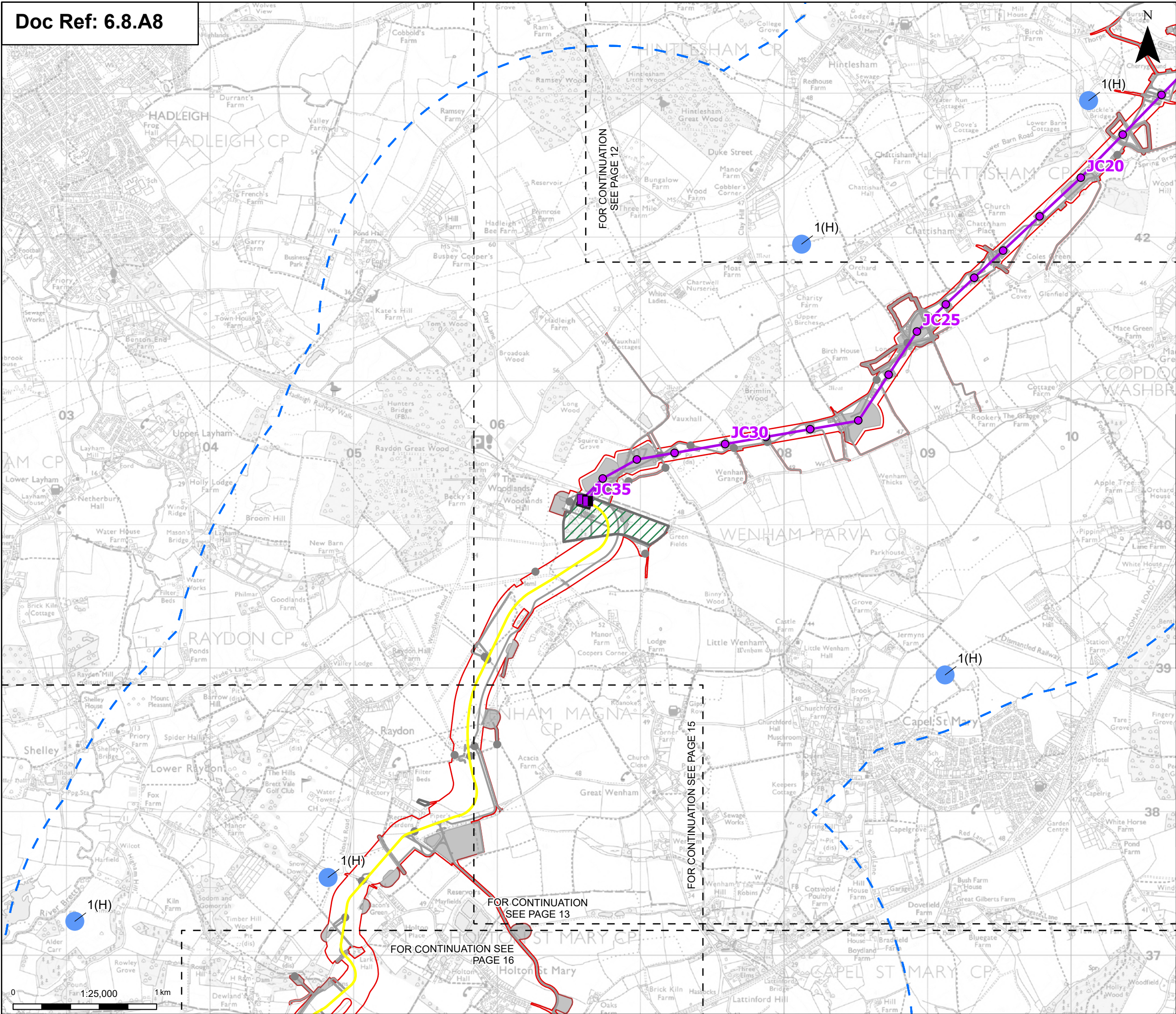












**Order limits**

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**Proposed project design details**

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

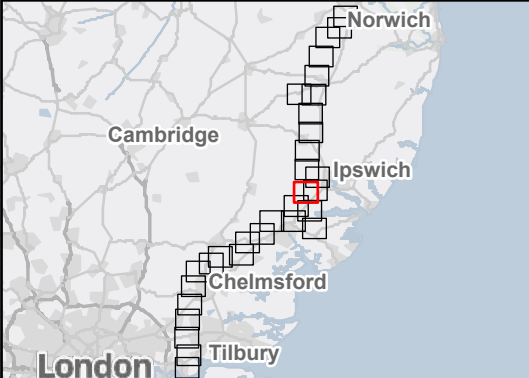
Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

**Legend:**

- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
- Grey heron (H)
- Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
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PROJECT:  
nationalgrid Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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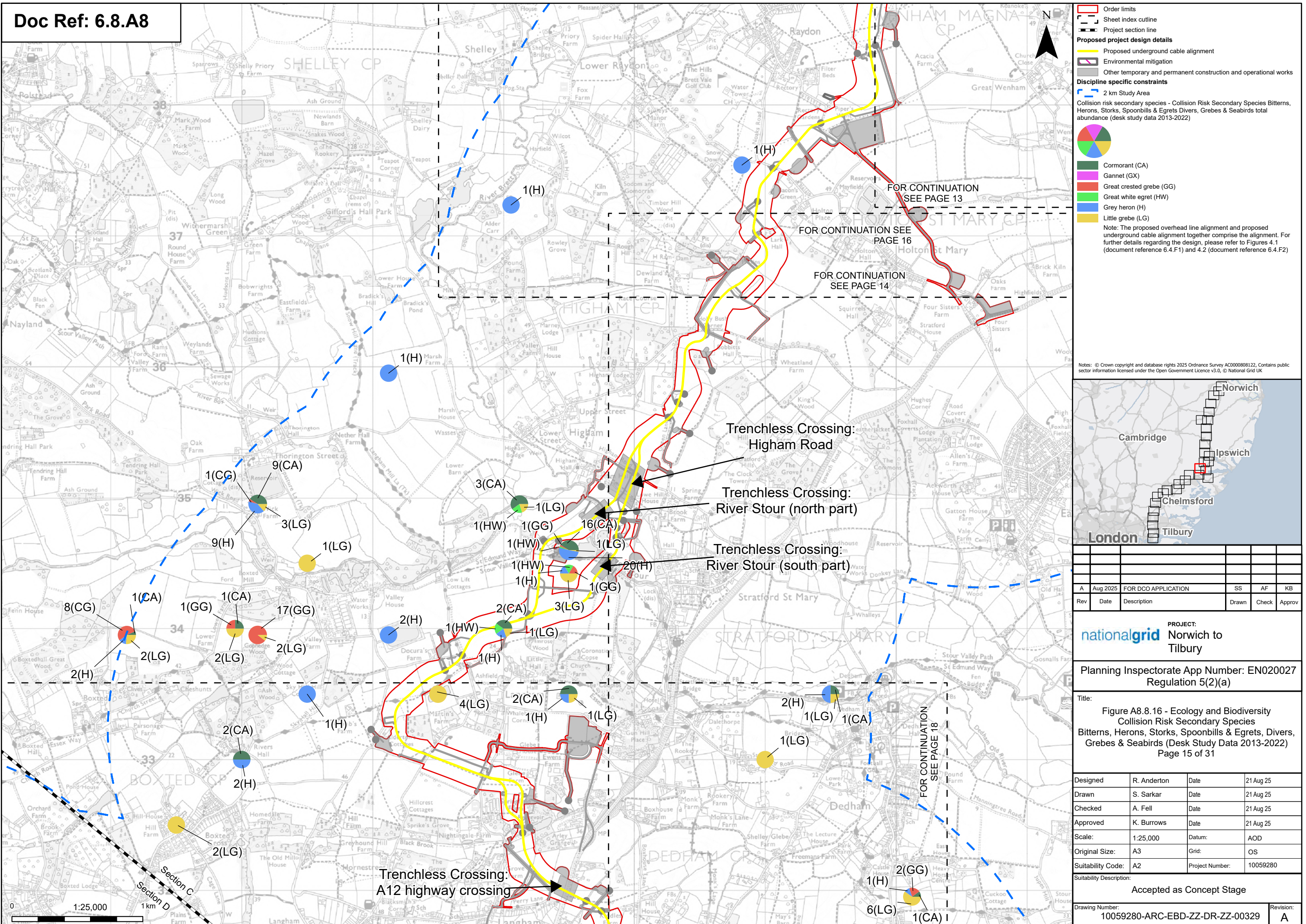
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
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Revision:  
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**Order limits**

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**Proposed project design details**

- Proposed underground cable alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

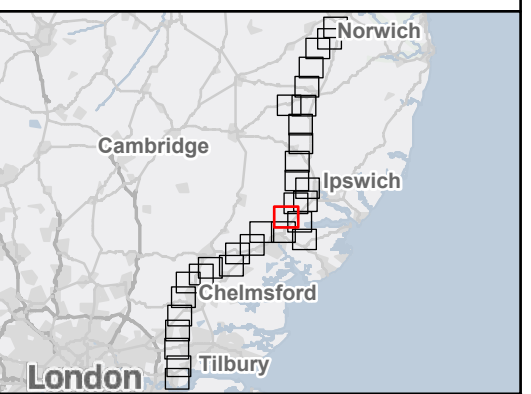
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- Grey heron (H)
- Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

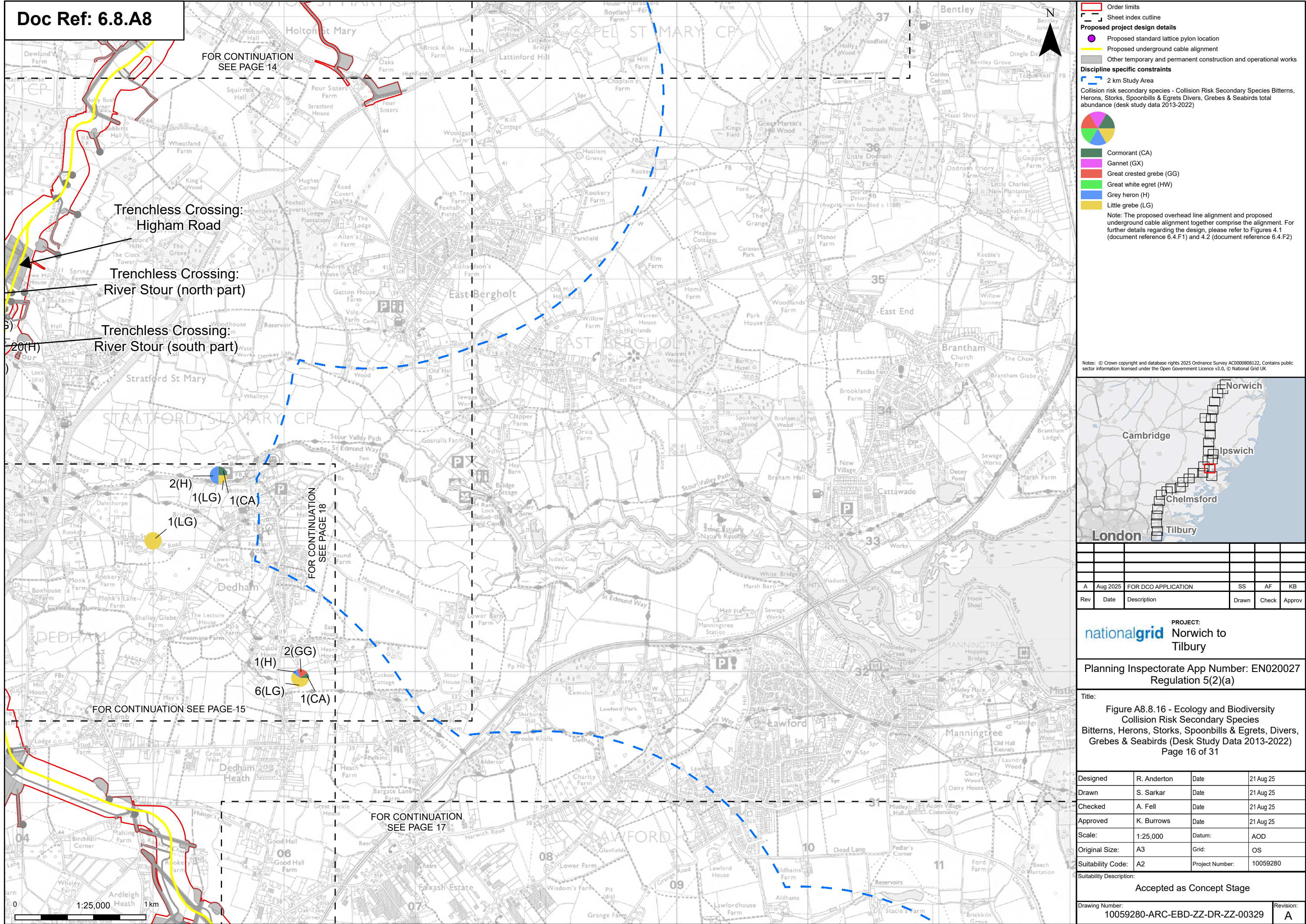
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Code: | A2          | Project Number: | 10059280  |

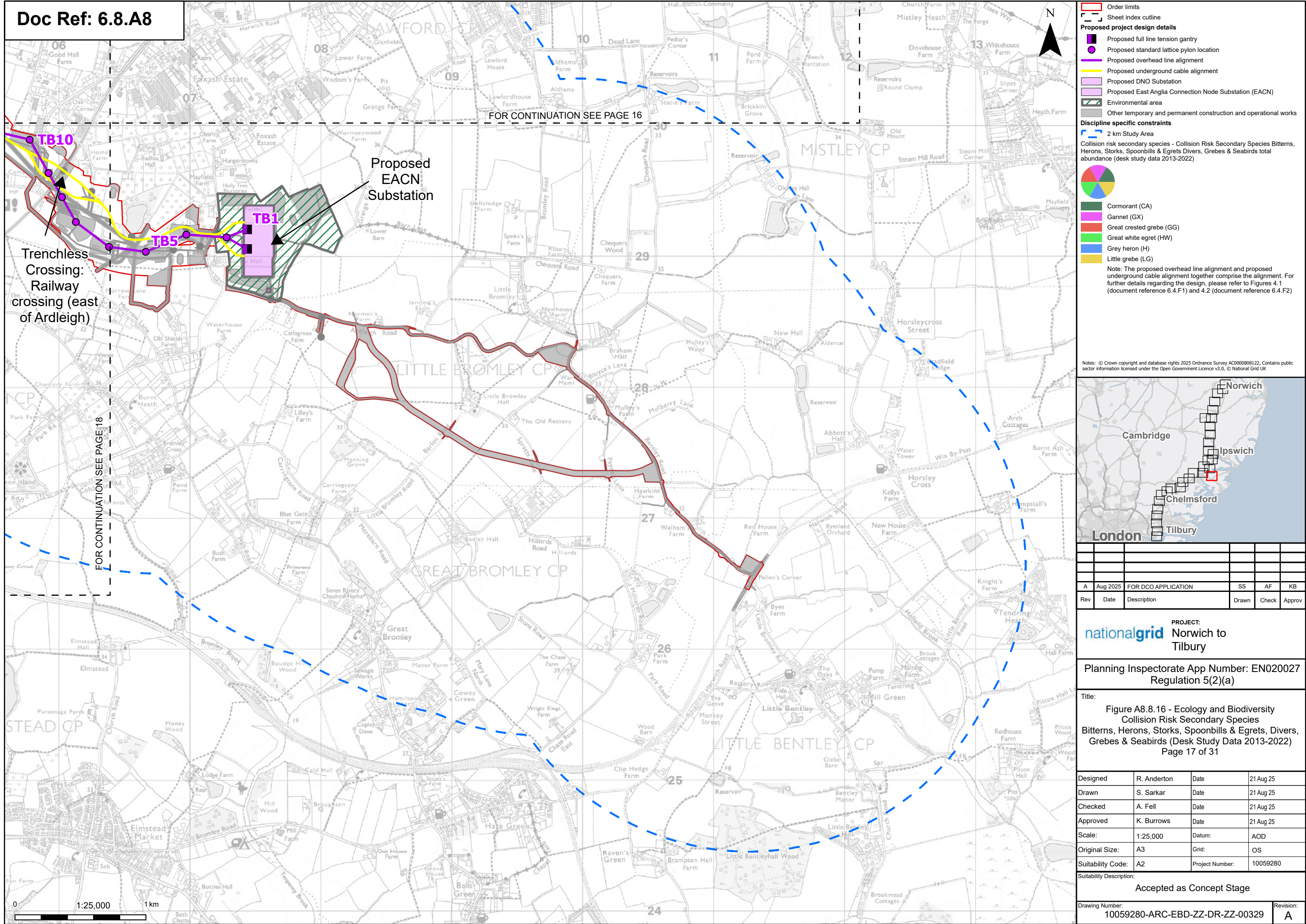
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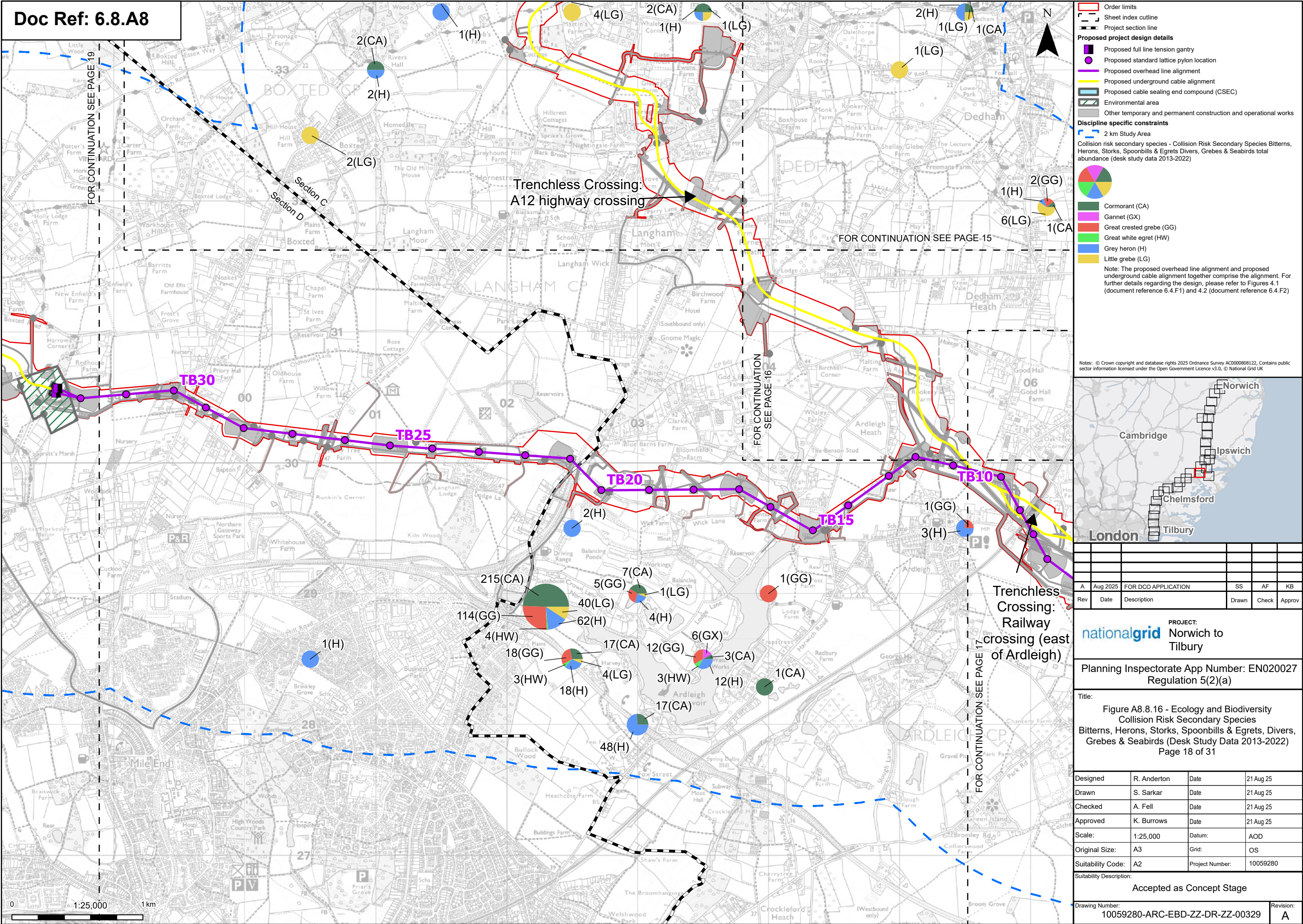




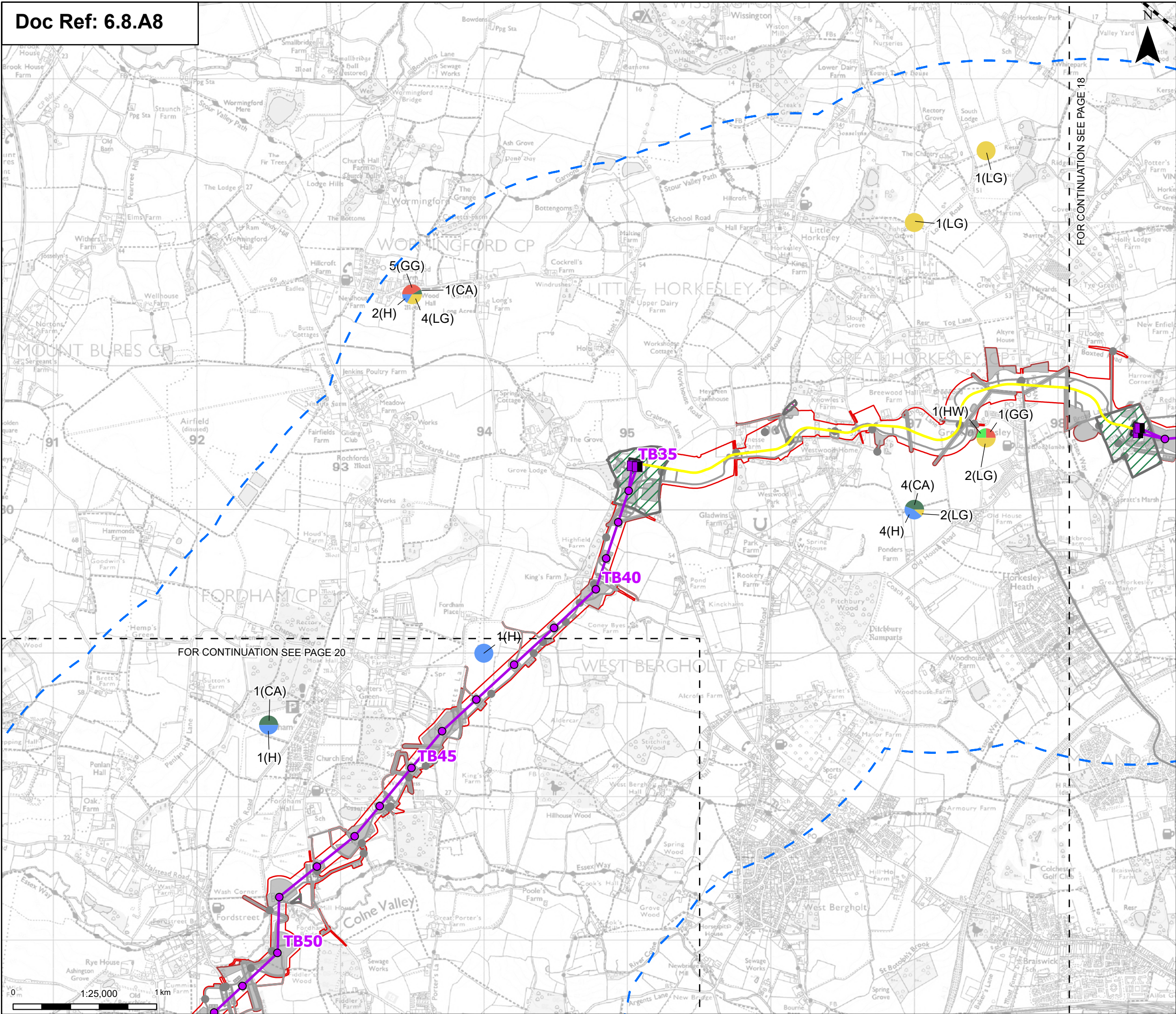












**Order limits**

- Order limits
- Sheet index cutline
- Project section line

**Proposed project design details**

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

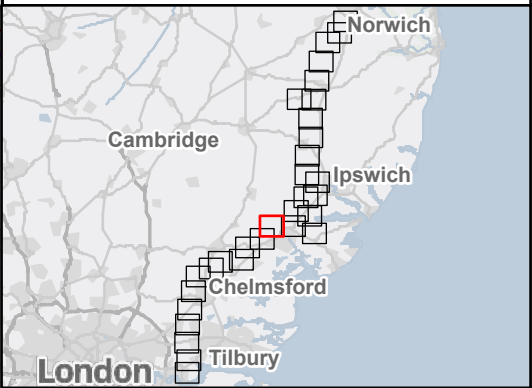
**Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)**

Legend:

- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
- Grey heron (H)
- Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

**PROJECT:**  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

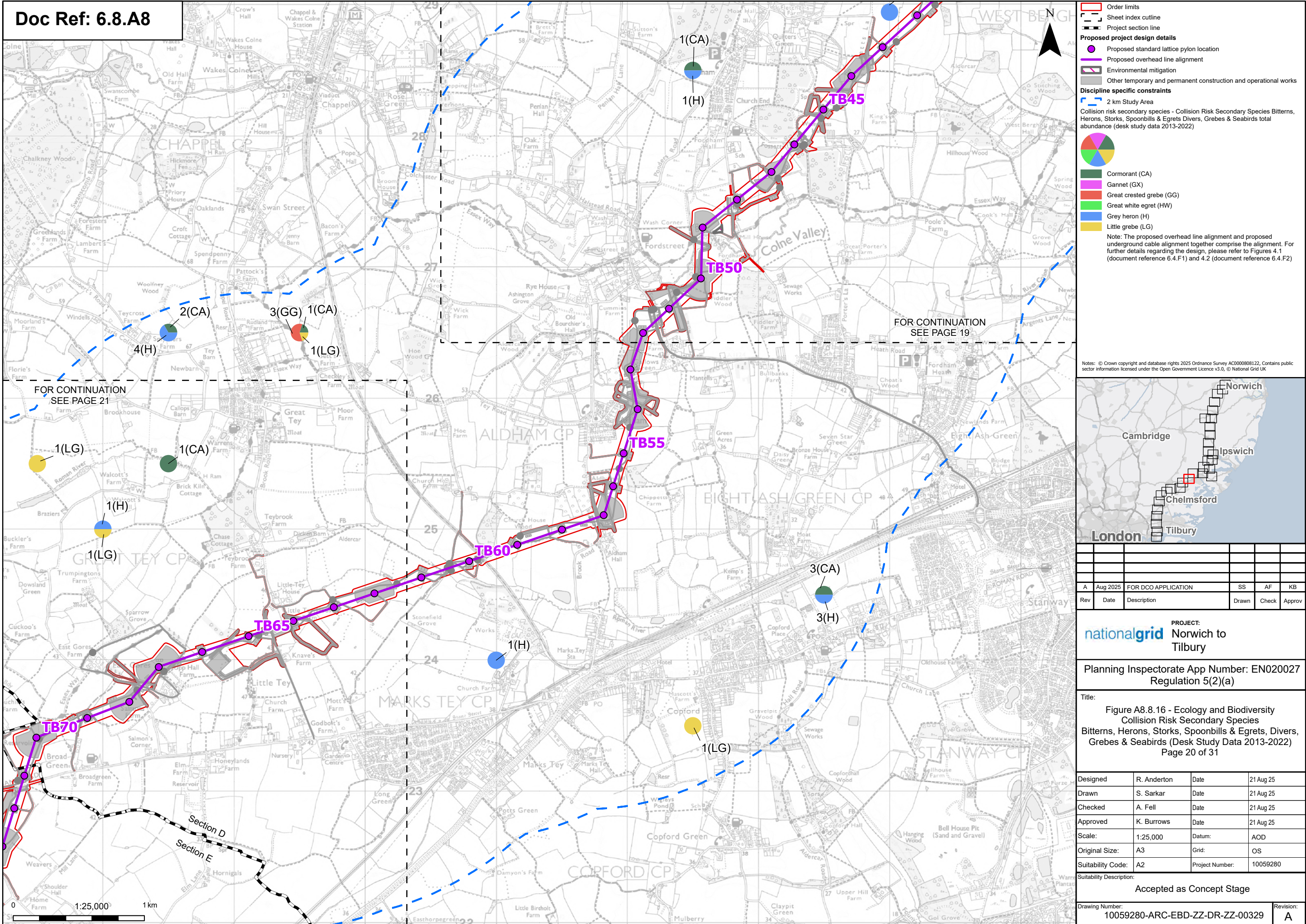
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Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
Grebes & Seabirds (Desk Study Data 2013-2022)  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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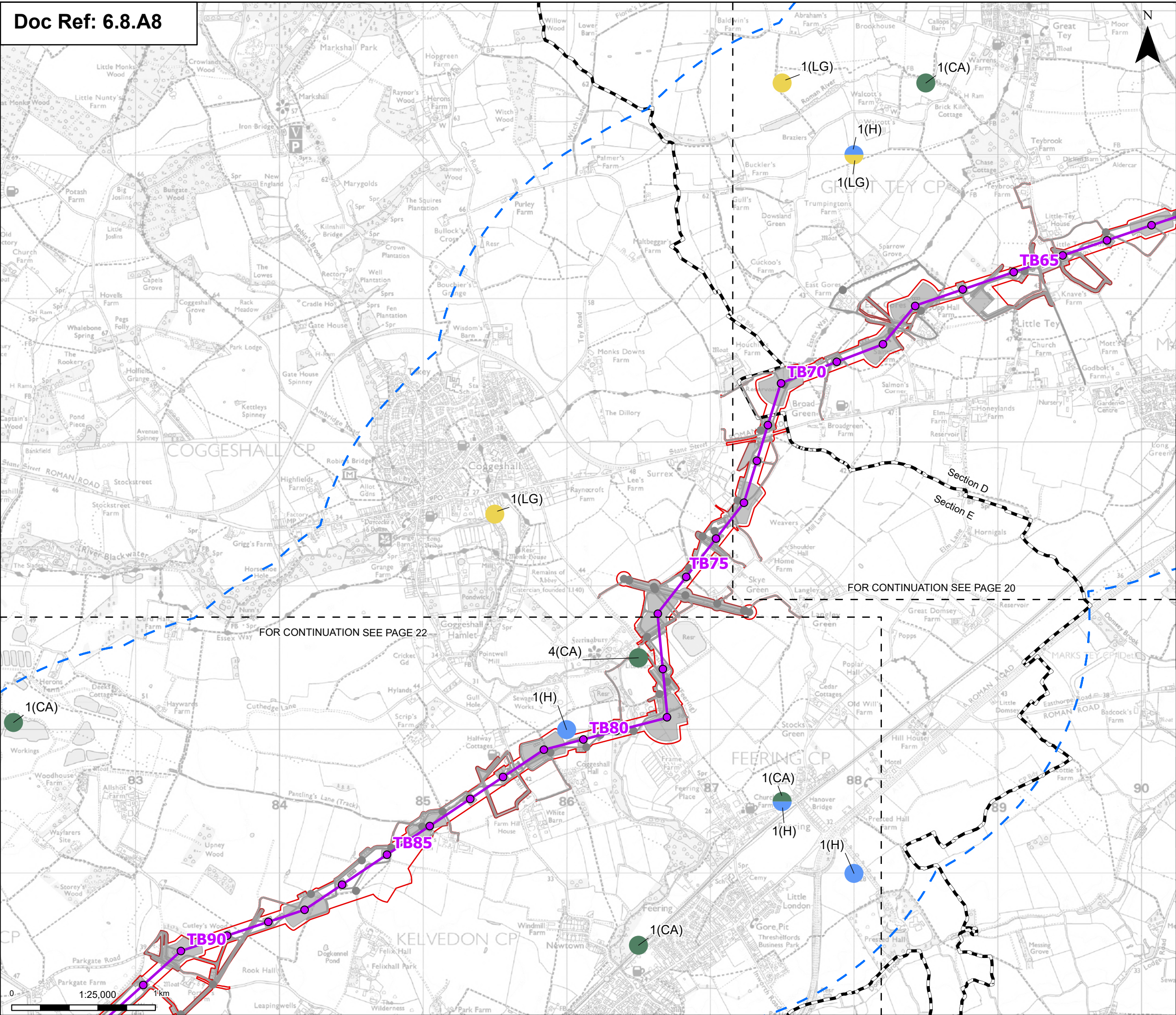
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Accepted as Concept Stage

Drawing Number:  
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Revision:  
A









Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

Title:

Figure A8.8.16 - Ecology and Biodiversity Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022) Page 21 of 31

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Suitability Description:

Accepted as Concept Stage

Drawing Number:

10059280-ARC-EBD-ZZ-DR-ZZ-00329

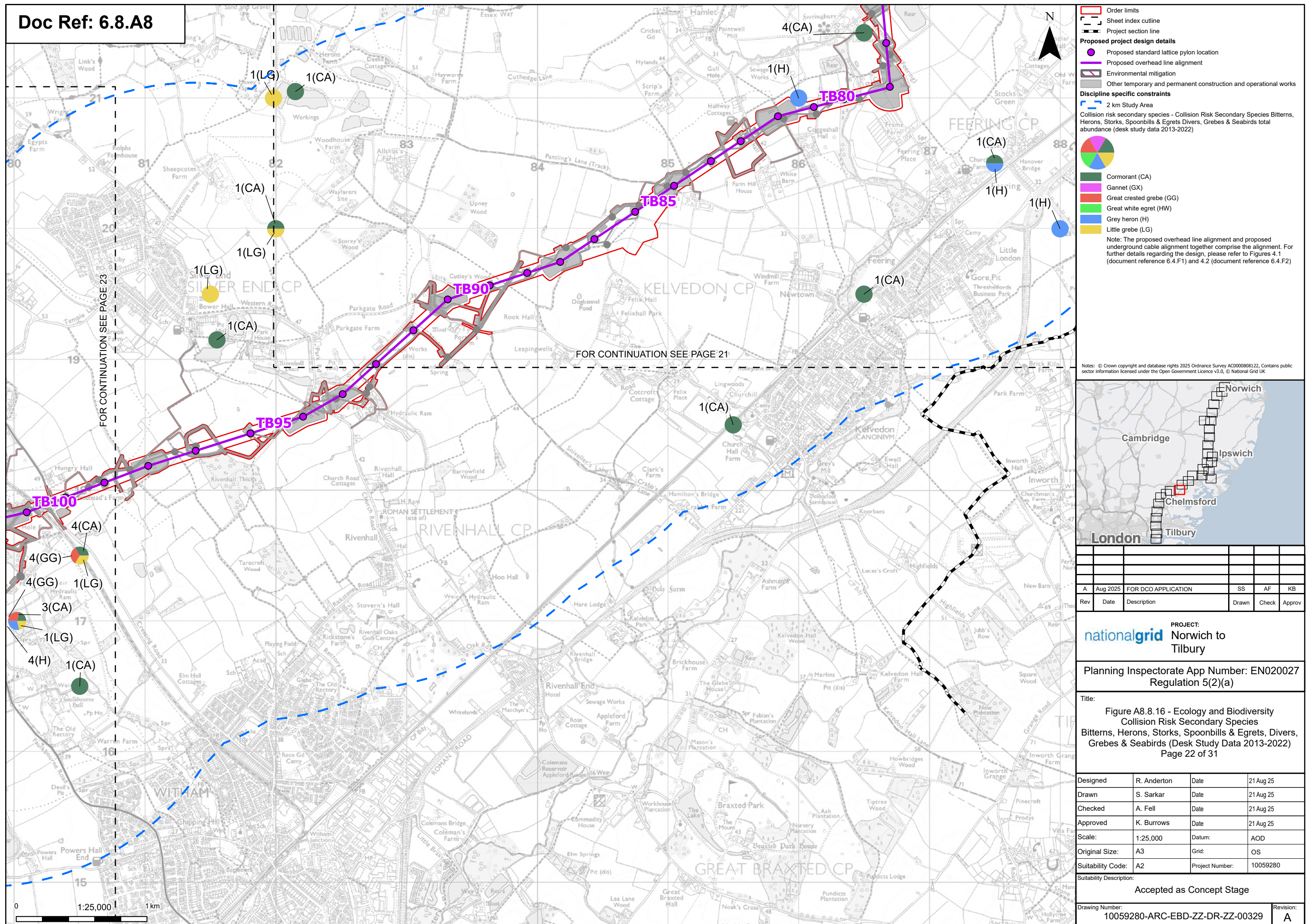
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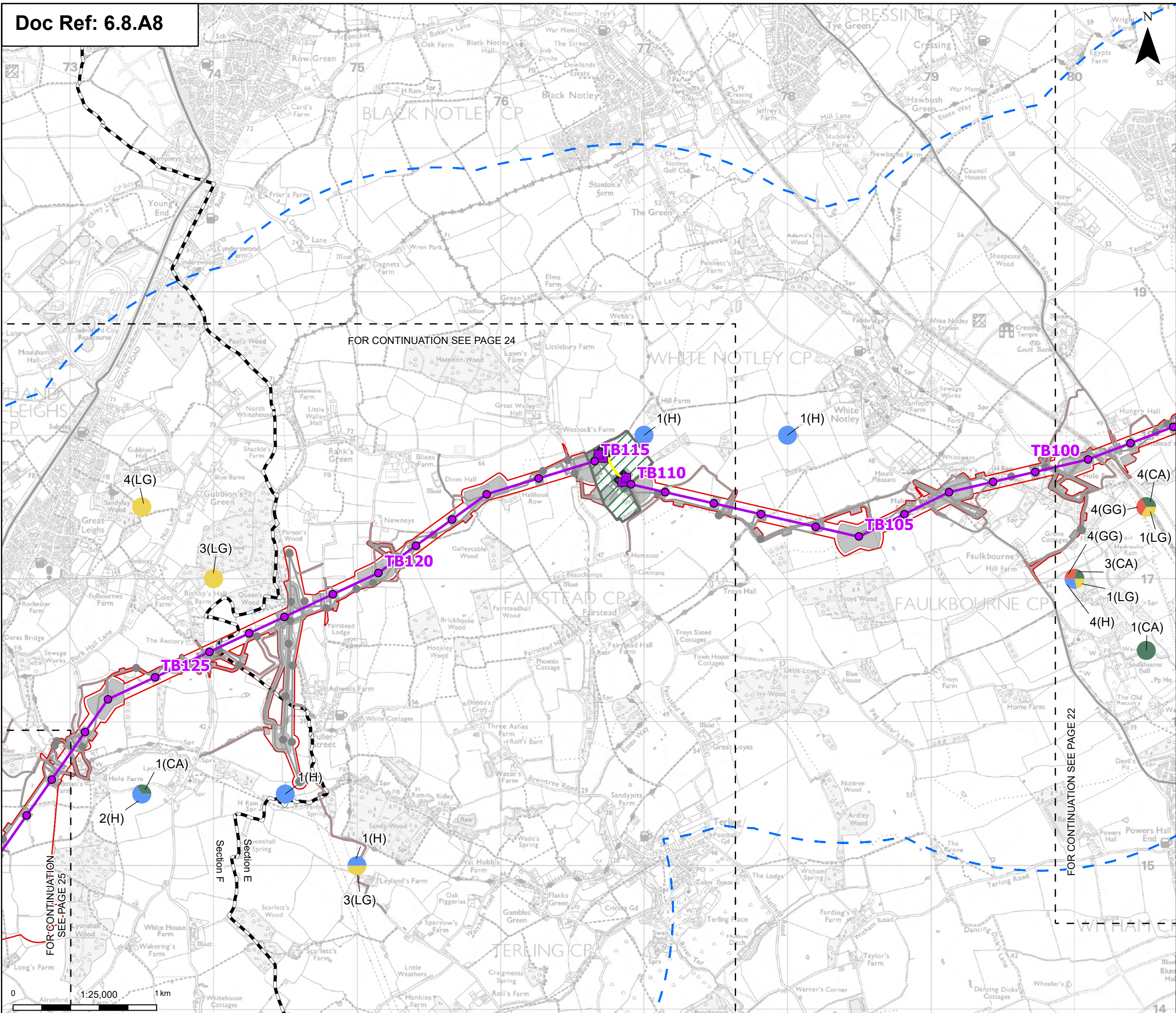
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Order limits

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Project section line

Proposed project design details

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed cable sealing end compound (CSEC)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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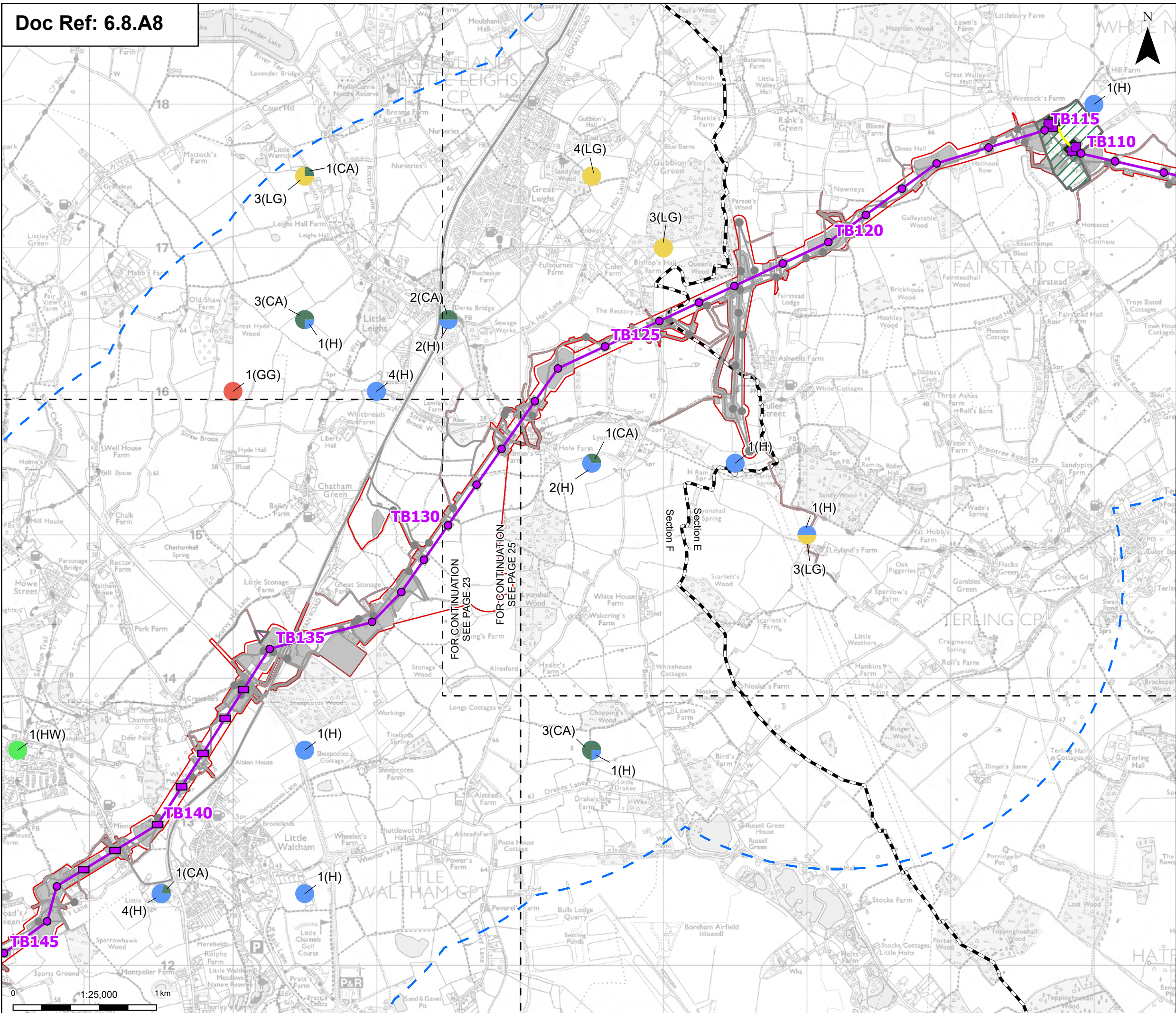
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**Order limits**

- Order limits
- Sheet index cutline
- Project section line

**Proposed project design details**

- Proposed low duty gantry
- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

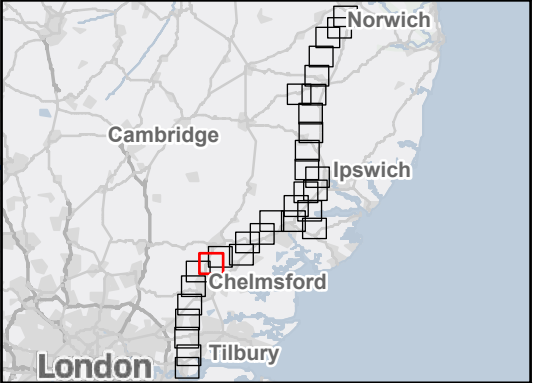
Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

**Legend**

- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
- Grey heron (H)
- Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
**nationalgrid** Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

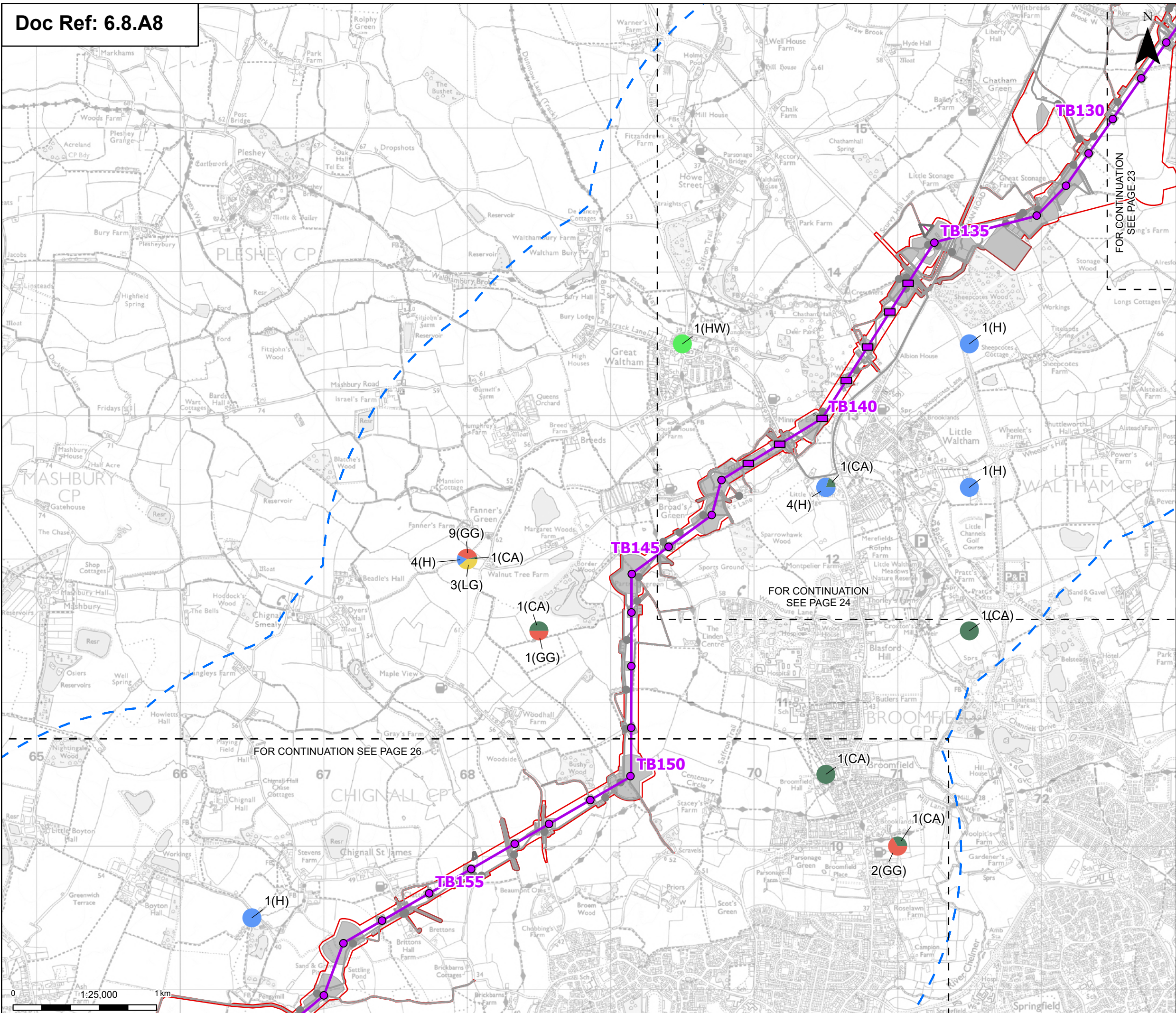
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Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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| Drawing Number: | 10059280-ARC-EBD-ZZ-DR-ZZ-00329 | Revision: | A |
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Order limits

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Proposed project design details

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

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Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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Suitability Description:  
Accepted as Concept Stage

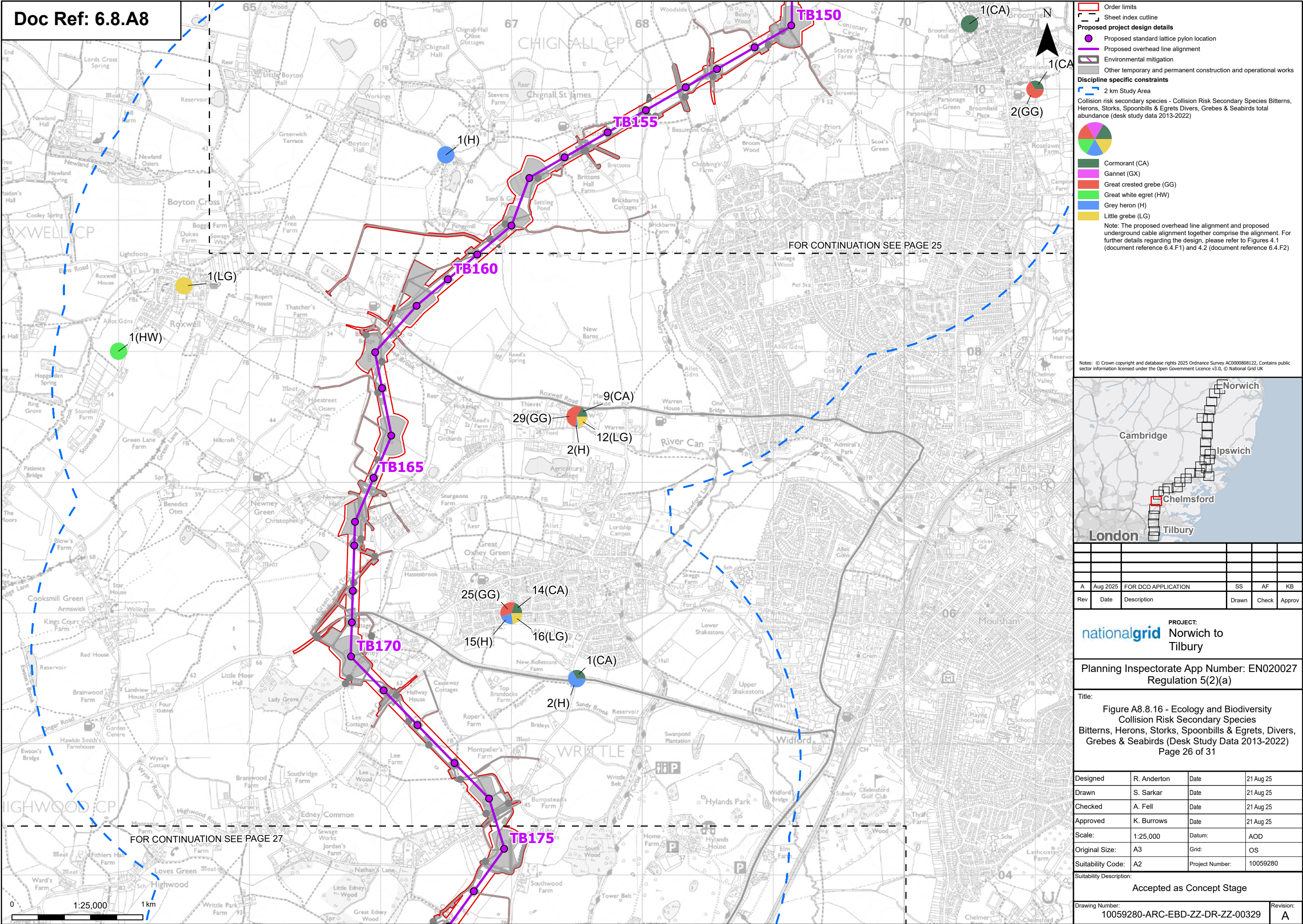
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Revision:  
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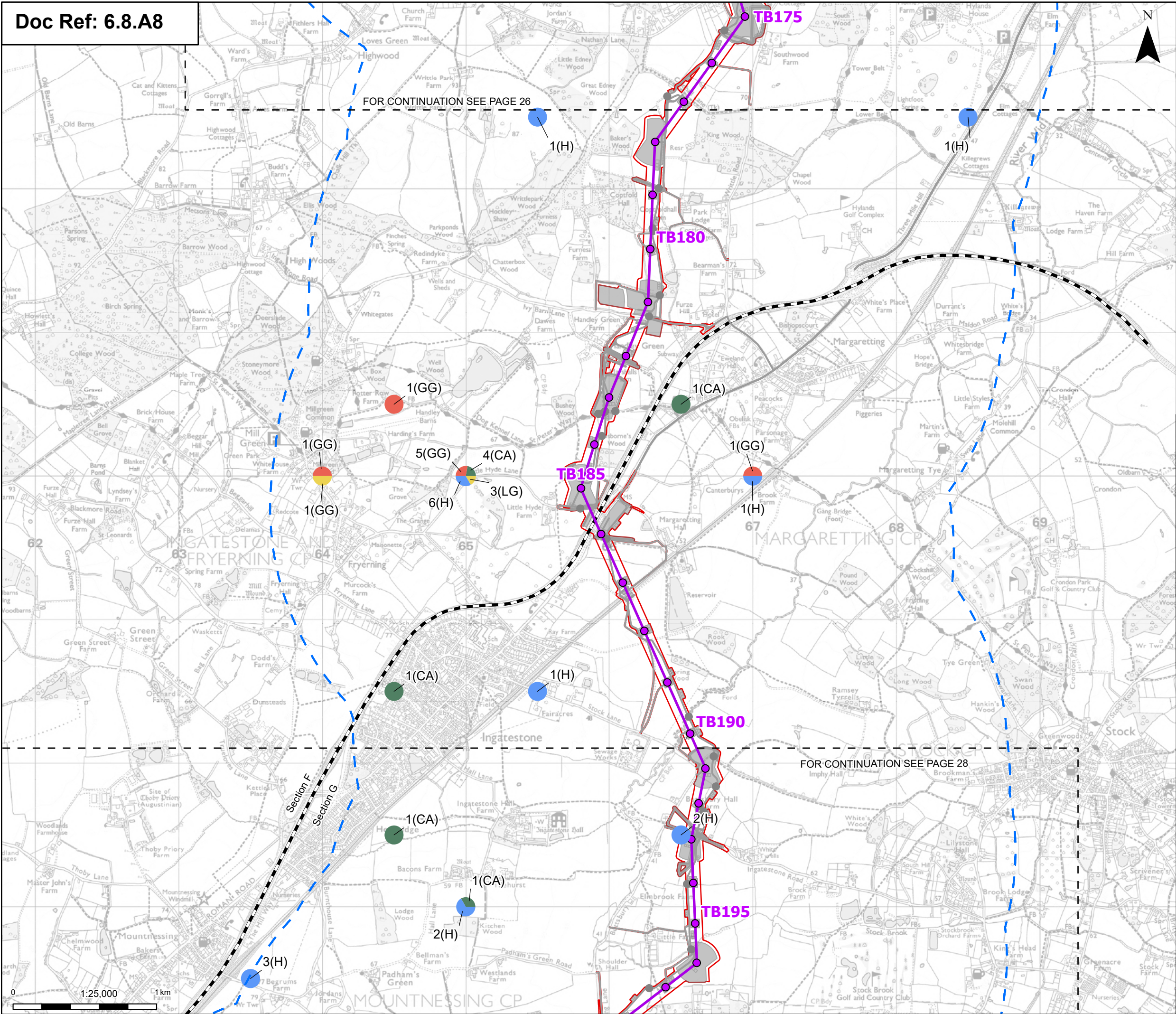
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Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Approved          | K. Burrows  | Date            | 21 Aug 25 |
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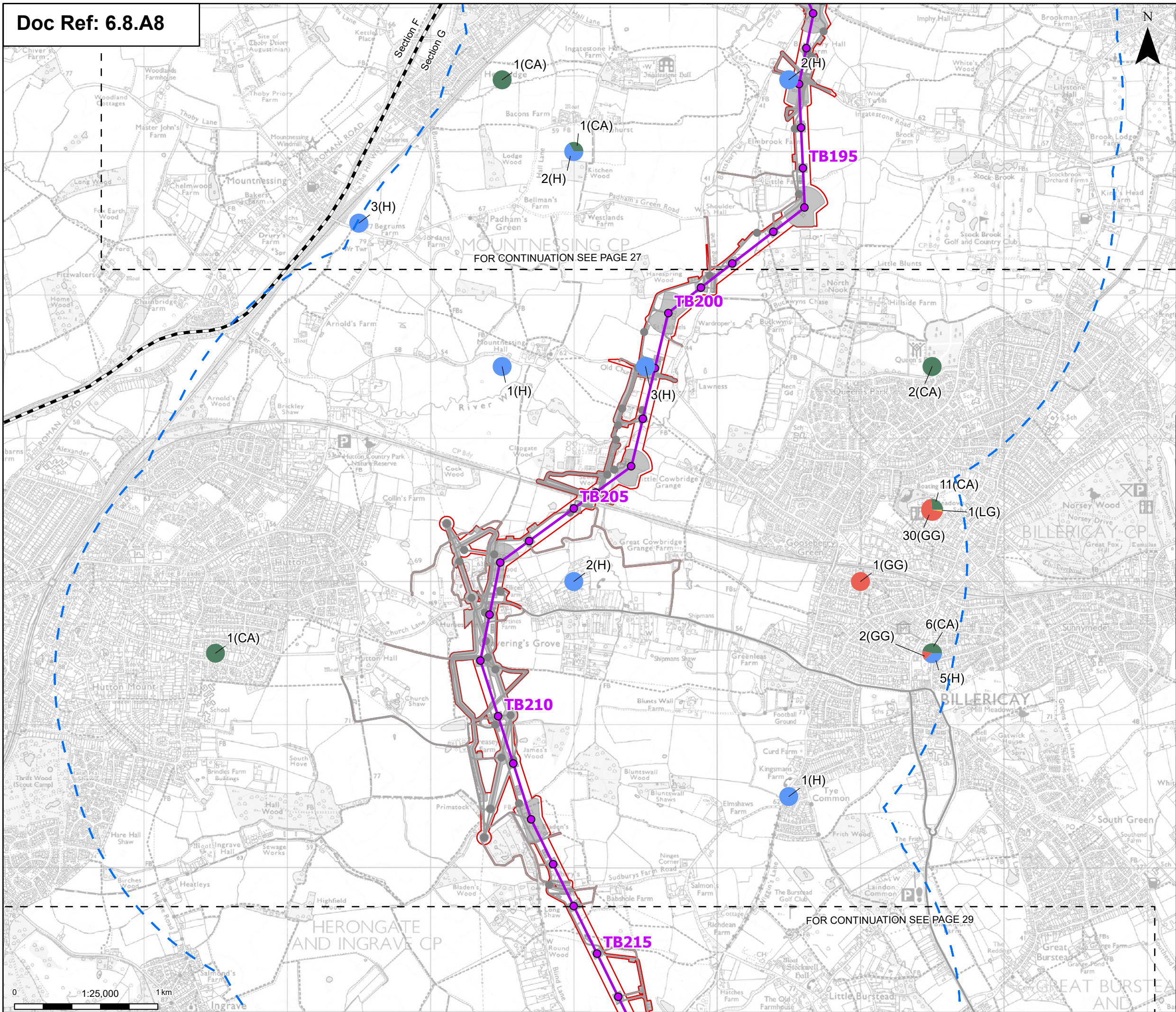
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

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Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

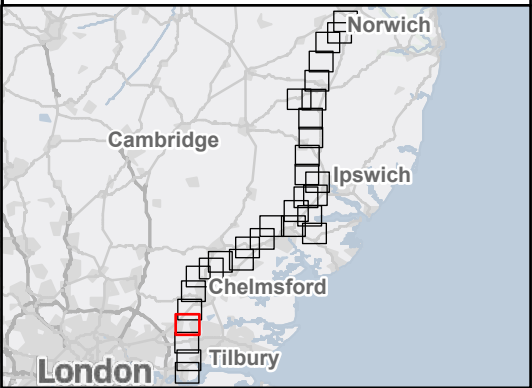
Great white egret (HW)

Grey heron (H)

Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

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PROJECT:

Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers,  
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| Approved                 | K. Burrows  | Date            | 21 Aug 25 |
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| Suitability Code:        | A2          | Project Number: | 10059280  |
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Accepted as Concept Stage

Drawing Number:

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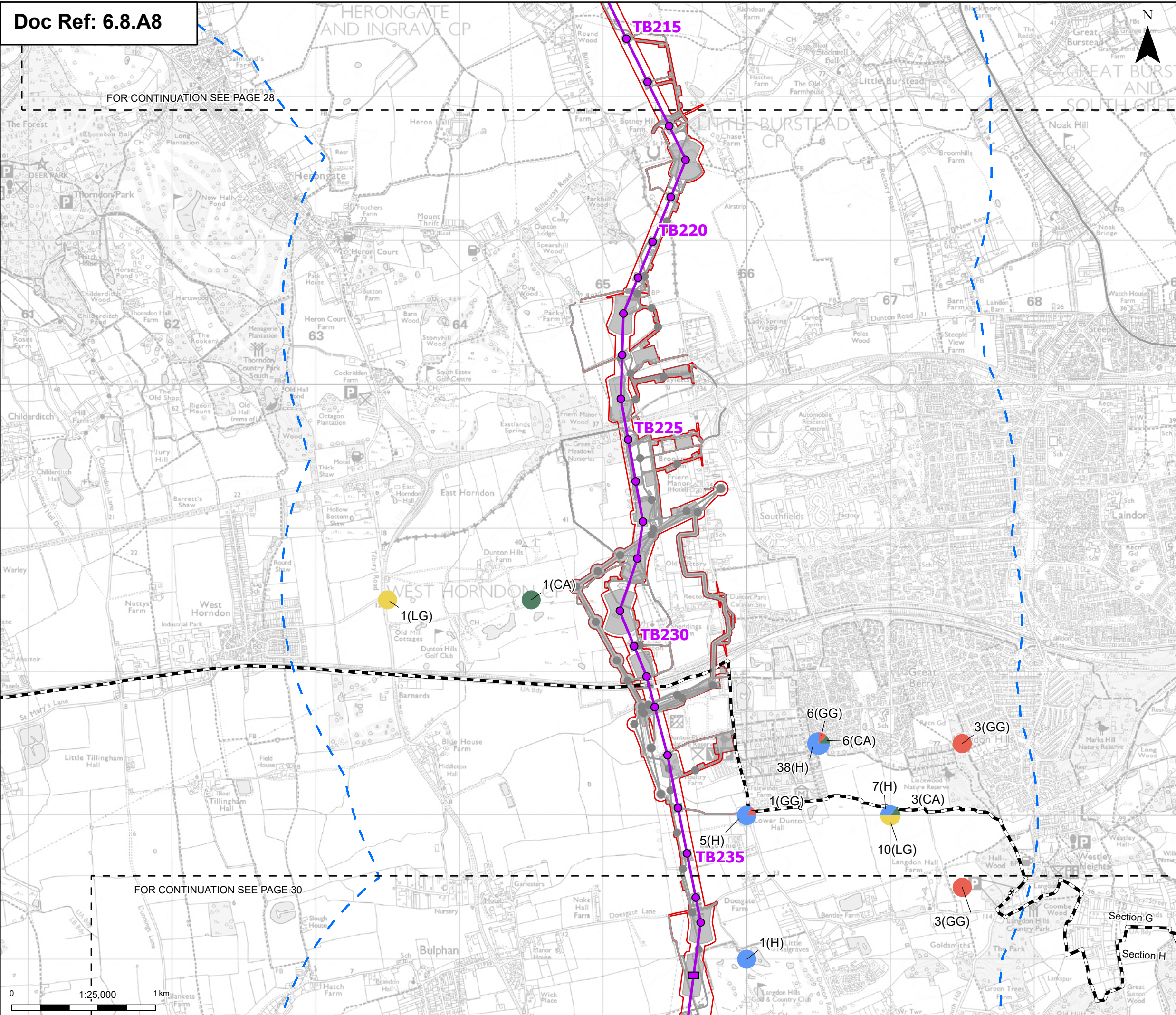
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FOR CONTINUATION SEE PAGE 30



Order limits

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Project section line

Proposed project design details

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

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| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)  
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| Approved                 | K. Burrows                | Date            | 21 Aug 25 |
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| Original Size:           | A3                        | Grid:           | OS        |
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| Suitability Description: | Accepted as Concept Stage |                 |           |

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10059280-ARC-EBD-ZZ-DR-ZZ-00329

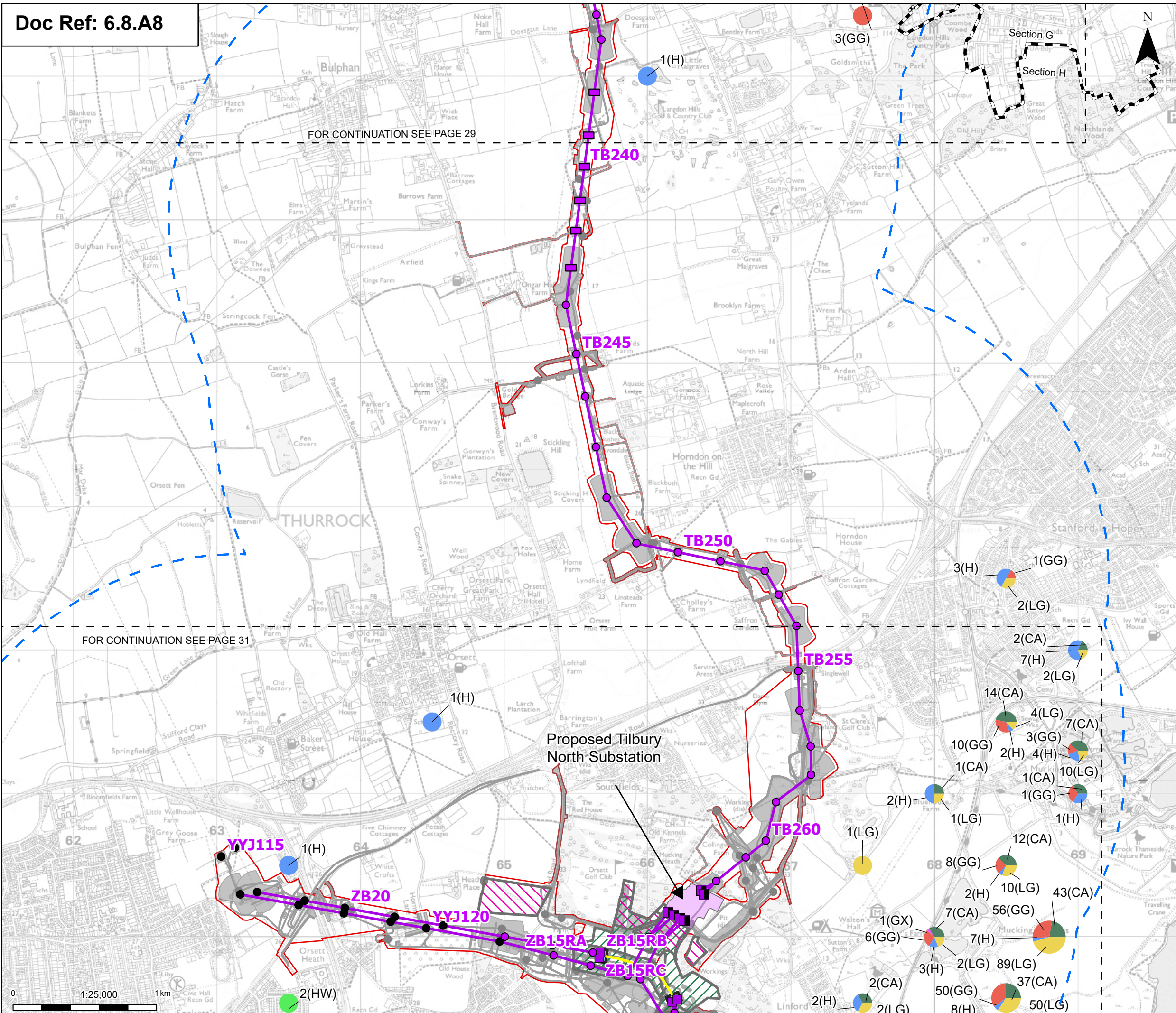
Revision:

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Print Date: 08-15-25 12:54:31

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**Order limits**

Sheet index cutline

Project section line

**Proposed project design details**

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed low height pylon location
- Existing pylon (modify)
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

2 km Study Area

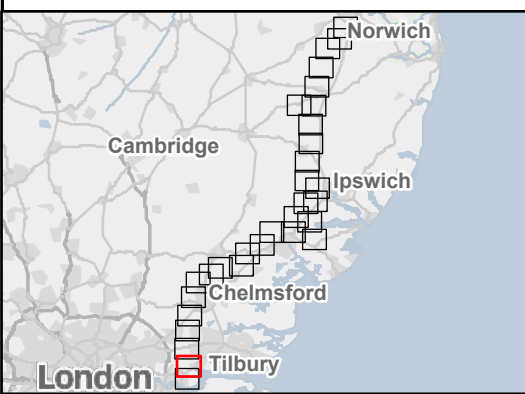
Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

**Legend**

- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
- Grey heron (H)
- Little grebe (LG)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

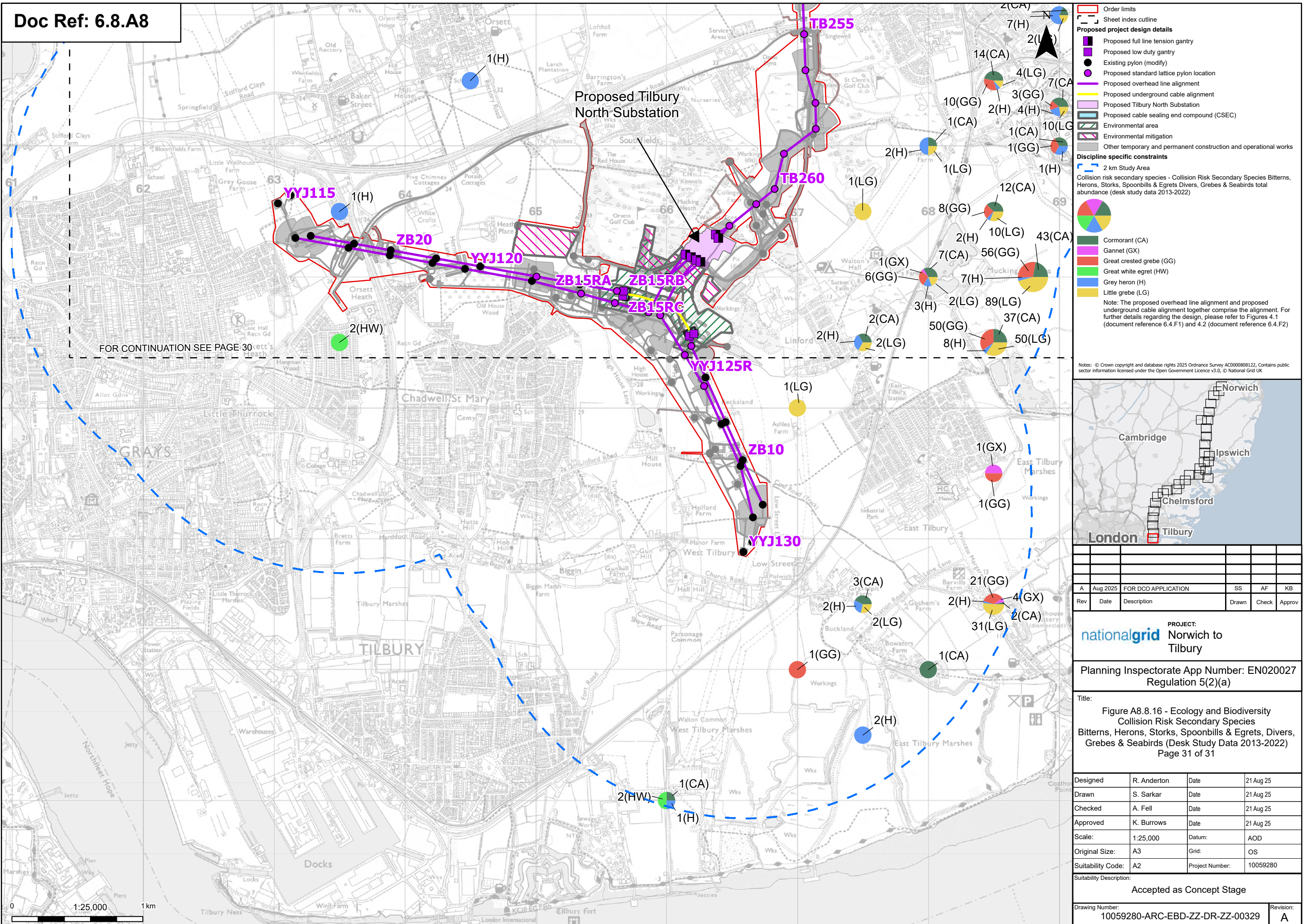
Title: **Figure A8.8.16 - Ecology and Biodiversity Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)**  
Page 30 of 31

|                   |             |                 |           |
|-------------------|-------------|-----------------|-----------|
| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description: **Accepted as Concept Stage**

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| Drawing Number: | 10059280-ARC-EBD-ZZ-DR-ZZ-00329 | Revision: | A |
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Order limits

Sheet index outline

**Proposed project design details**

- Proposed full line tension gantry
- Proposed low duty gantry
- Existing pylon (modify)
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 2 km Study Area

Collision risk secondary species - Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets Divers, Grebes & Seabirds total abundance (desk study data 2013-2022)

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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Legend for Collision Risk Secondary Species:

- Cormorant (CA)
- Gannet (GX)
- Great crested grebe (GG)
- Great white egret (HW)
- Grey heron (H)
- Little grebe (LG)

Map of the East of England showing the location of the project area relative to London, Cambridge, Ipswich, and Norwich.

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |

**PROJECT:**  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
Figure A8.8.16 - Ecology and Biodiversity  
Collision Risk Secondary Species  
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)  
Page 31 of 31

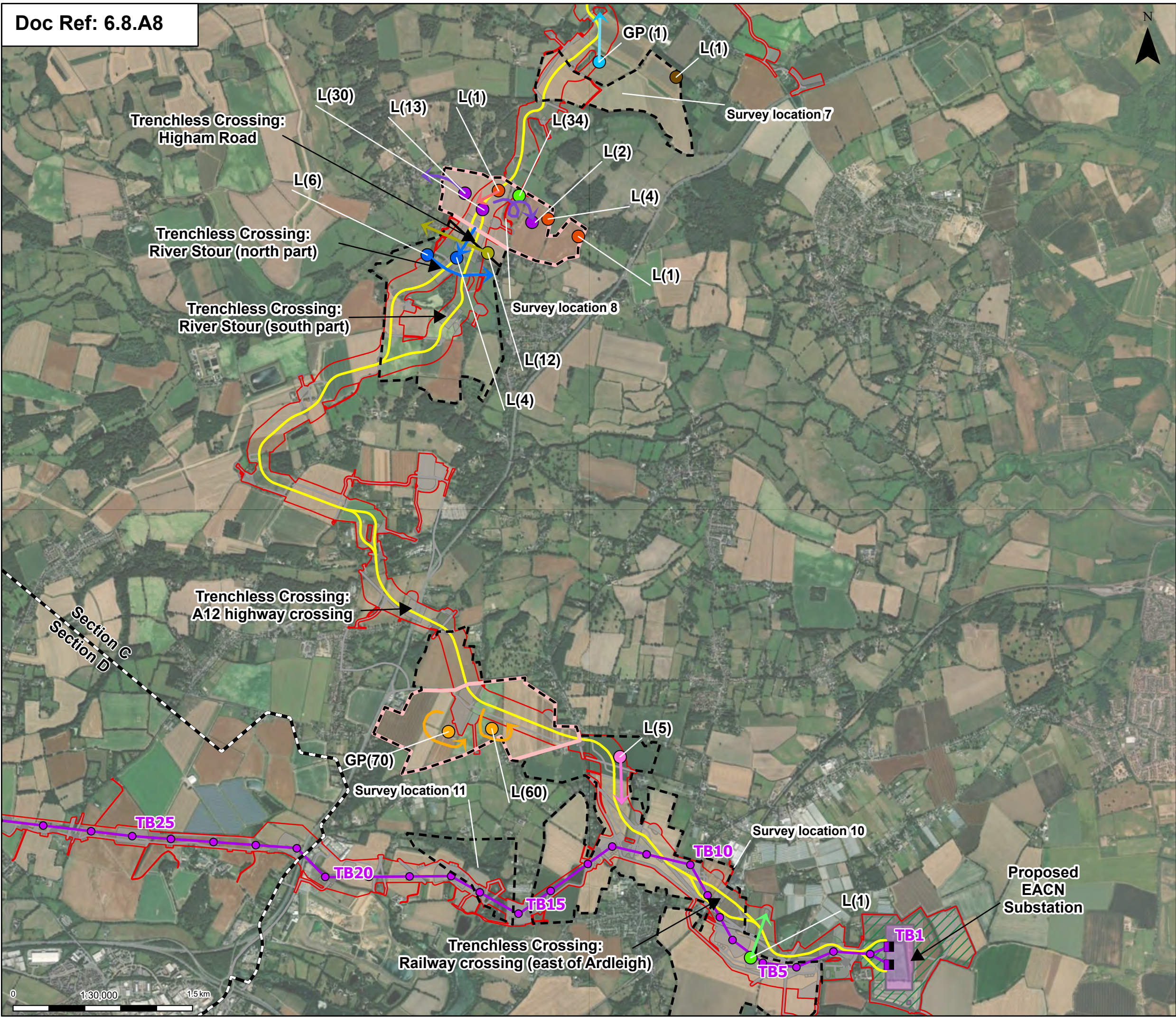
| Designed          | R. Anderton | Date            | 21 Aug 25 |
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
| Checked           | A. Fell     | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:25,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
10059280-ARC-EBD-ZZ-DR-ZZ-00329

Revision:  
A





Order limits

Project section line

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed DNO Substation

Proposed East Anglia Connection Node Substation (EACN)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

Stour and Orwell estuaries SPA ramsar assemblage species

Date

20/10/2022

23/11/2022

07/12/2022

15/12/2022

10/01/2023

24/01/2023

08/02/2023

15/02/2023

21/02/2023

Direction of Flight

Functionally Linked Land

Survey Areas

GP - Golden Plover

L - Lapwing

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| Rev | Date     | Description         | Drawn | Check | Approv |

nationalgrid

PROJECT:  
Norwich to  
Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

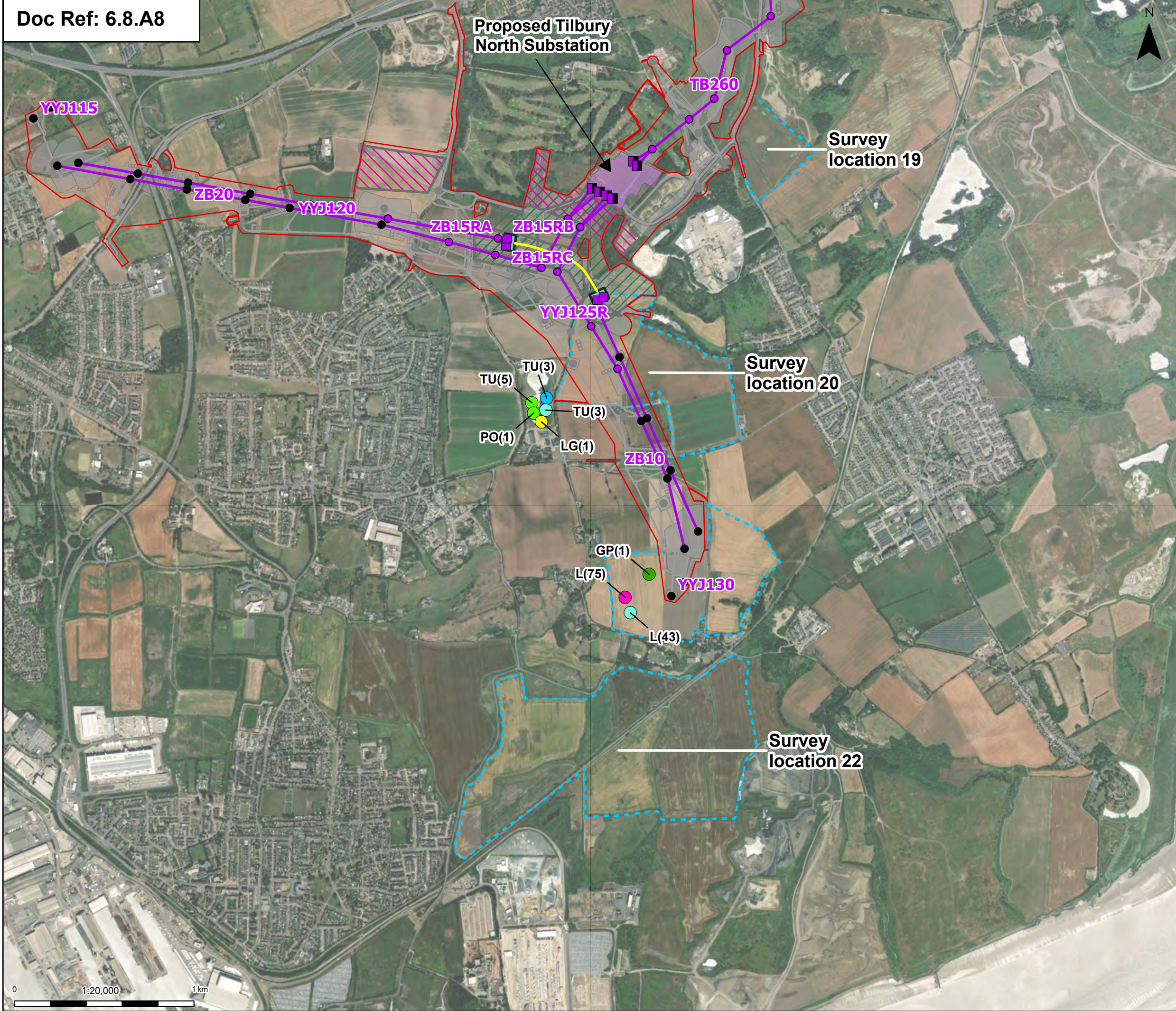
Title:  
Figure A8.8.17 Ecology and Biodiversity-  
Field Results - Stour and Orwell Estuaries  
SPA Ramsar Assemblage  
Species (Lapwing & Golden Plover)

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| Designed          | R. Anderton | Date            | 21 Aug 25 |
| Drawn             | N. Banu     | Date            | 21 Aug 25 |
| Checked           | R. Anderton | Date            | 21 Aug 25 |
| Approved          | K. Burrows  | Date            | 21 Aug 25 |
| Scale:            | 1:30,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
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Order limits

Proposed project design details

Proposed full line tension gantry

Proposed low duty gantry

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed Tilbury North Substation

Proposed cable sealing end compound (CSEC)

Environmental area

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

Survey Areas

Thames estuary and marshes SPA / Ramsar assemblage species

16/11/2023

08/12/2023

11/01/2024

23/01/2024

08/02/2024

20/02/2024

GP - Golden Plover

L - Lapwing

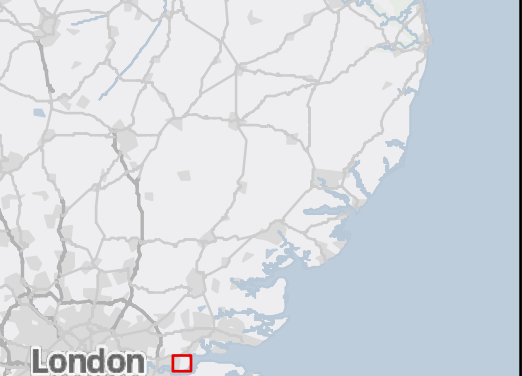
LG - Little Grebe

PO - Pochard

TU - Tufted Duck

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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| A   | Aug 2025 | FOR DCO APPLICATION | SS    | AF    | KB     |
| Rev | Date     | Description         | Drawn | Check | Approv |

PROJECT:  
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
Regulation 5(2)(a)

Title:  
  
Figure A8.8.18 - Ecology and Biodiversity-  
Field Results - Thames Estuary and Marshes  
SPA / Ramsar Assemblage Species

|                   |             |                 |           |
|-------------------|-------------|-----------------|-----------|
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| Drawn             | S. Sarkar   | Date            | 21 Aug 25 |
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| Scale:            | 1:20,000    | Datum:          | AOD       |
| Original Size:    | A3          | Grid:           | OS        |
| Suitability Code: | A2          | Project Number: | 10059280  |

Suitability Description:  
Accepted as Concept Stage

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