

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 2 of 4

Final Issue B

July 2026

Planning Inspectorate Reference: EN020027

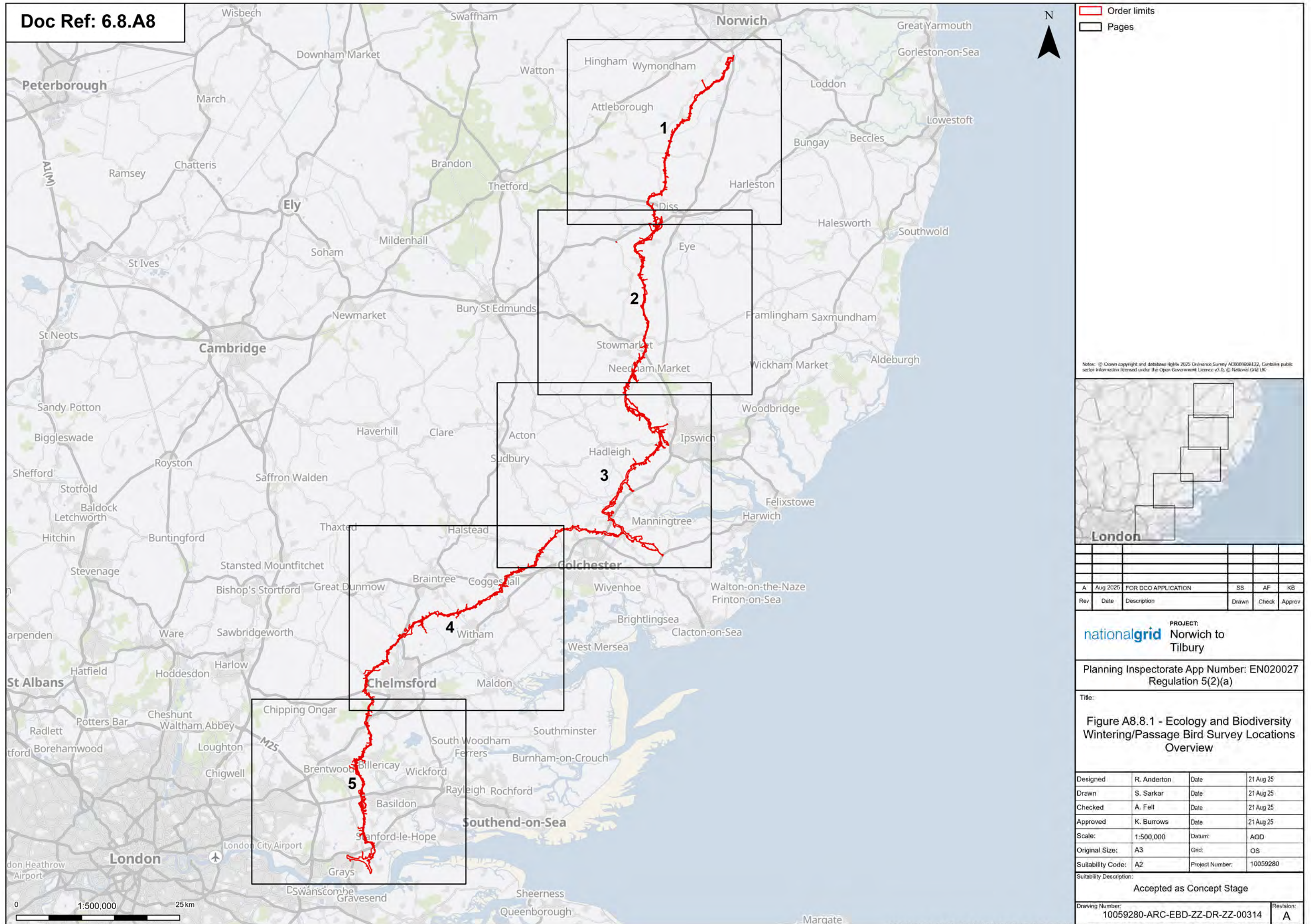
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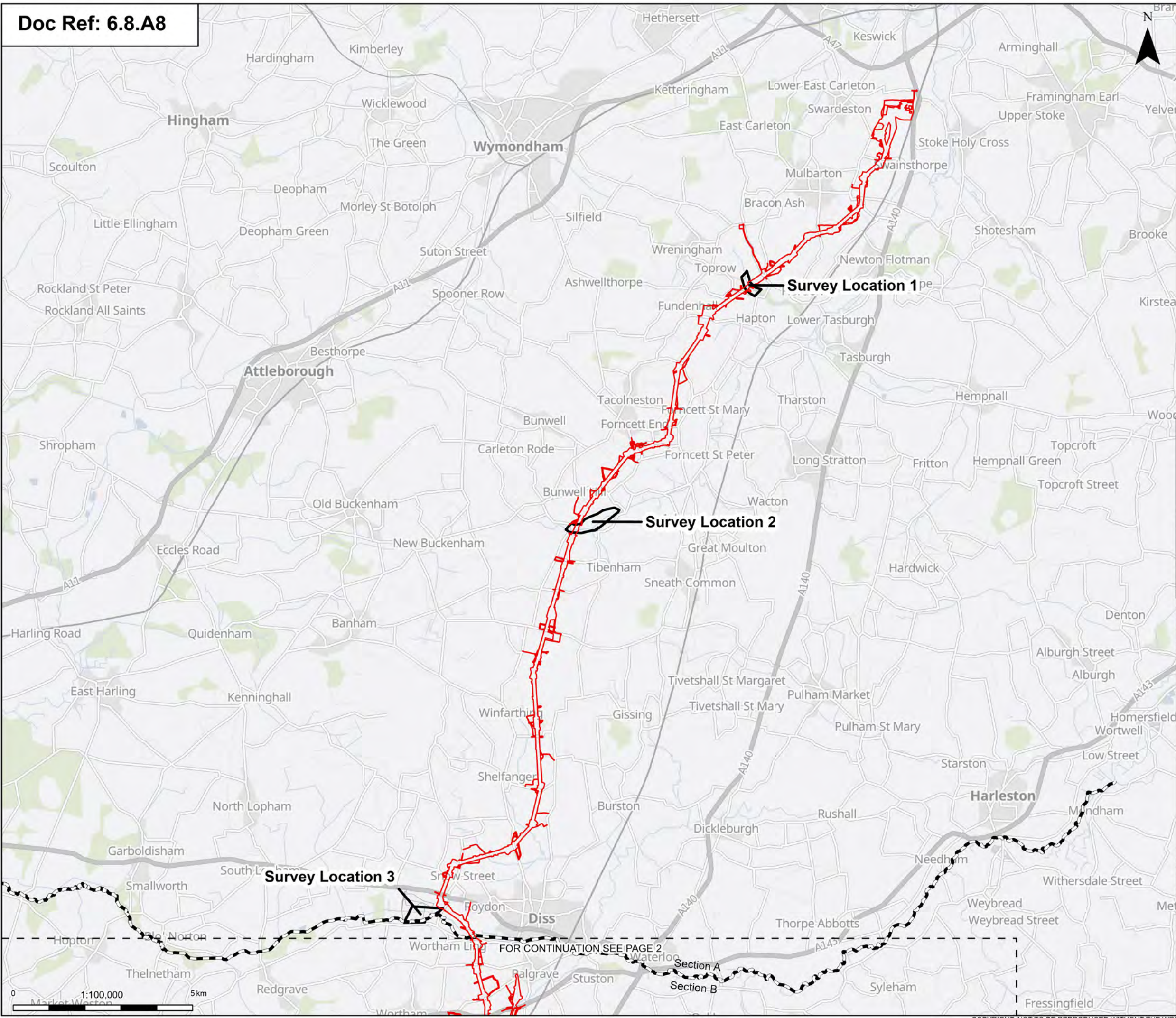
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Appendix A.

Figures

See parts 2 to 4





Order limits

Sheet index cutline

Project section line

Discipline specific constraints

Vantage Point (VP)

Note: 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	Approved

PROJECT:
nationalgrid Norwich to
Tilbury

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

Title:

Figure A8.8.1 - Ecology and Biodiversity
Wintering/Passage Bird Survey Locations
Page 1 of 5

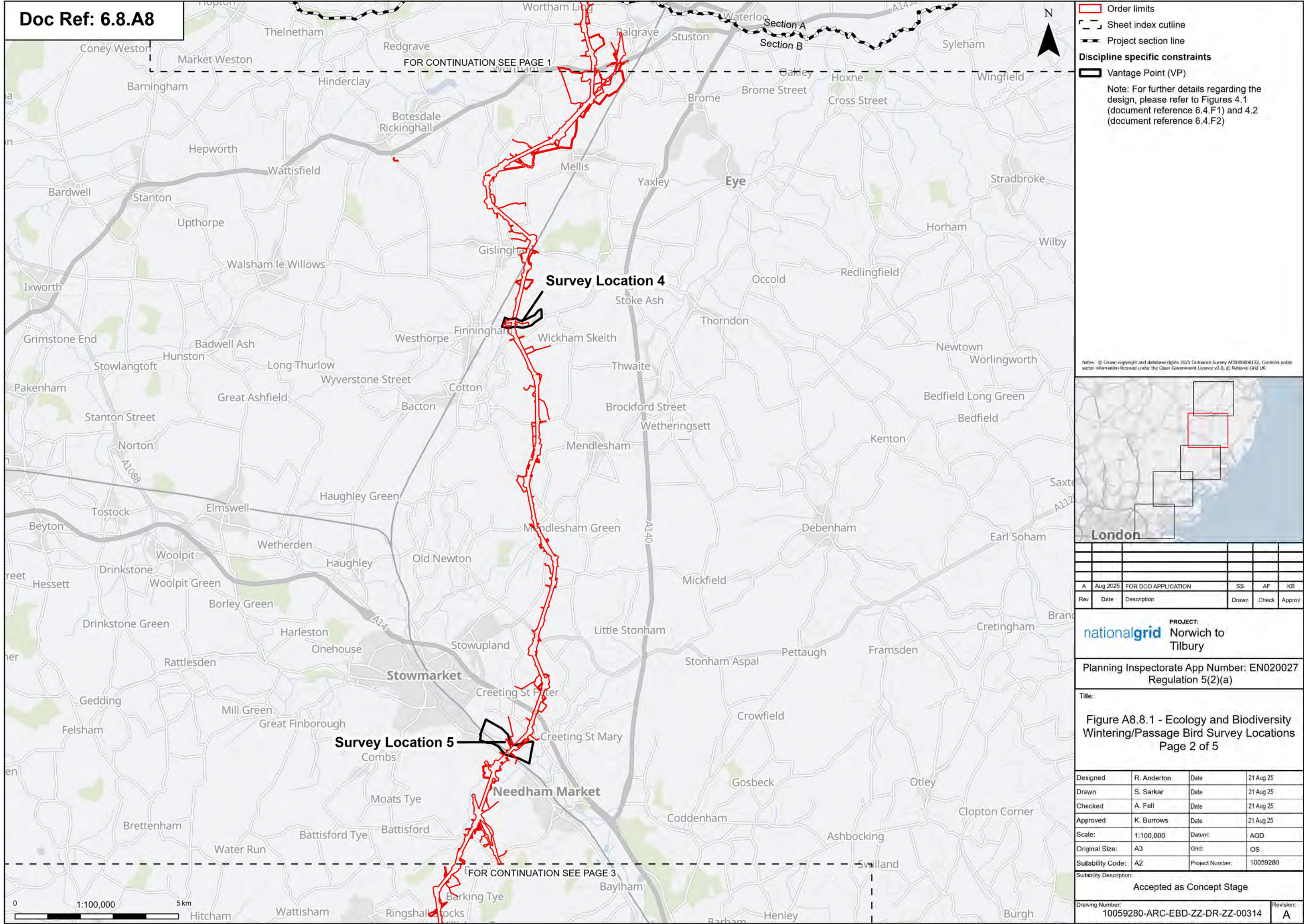
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:100,000	Datum:	AOD
Original Size:	A3	Grid:	OS
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Suitability Description: Accepted as Concept Stage			

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00314

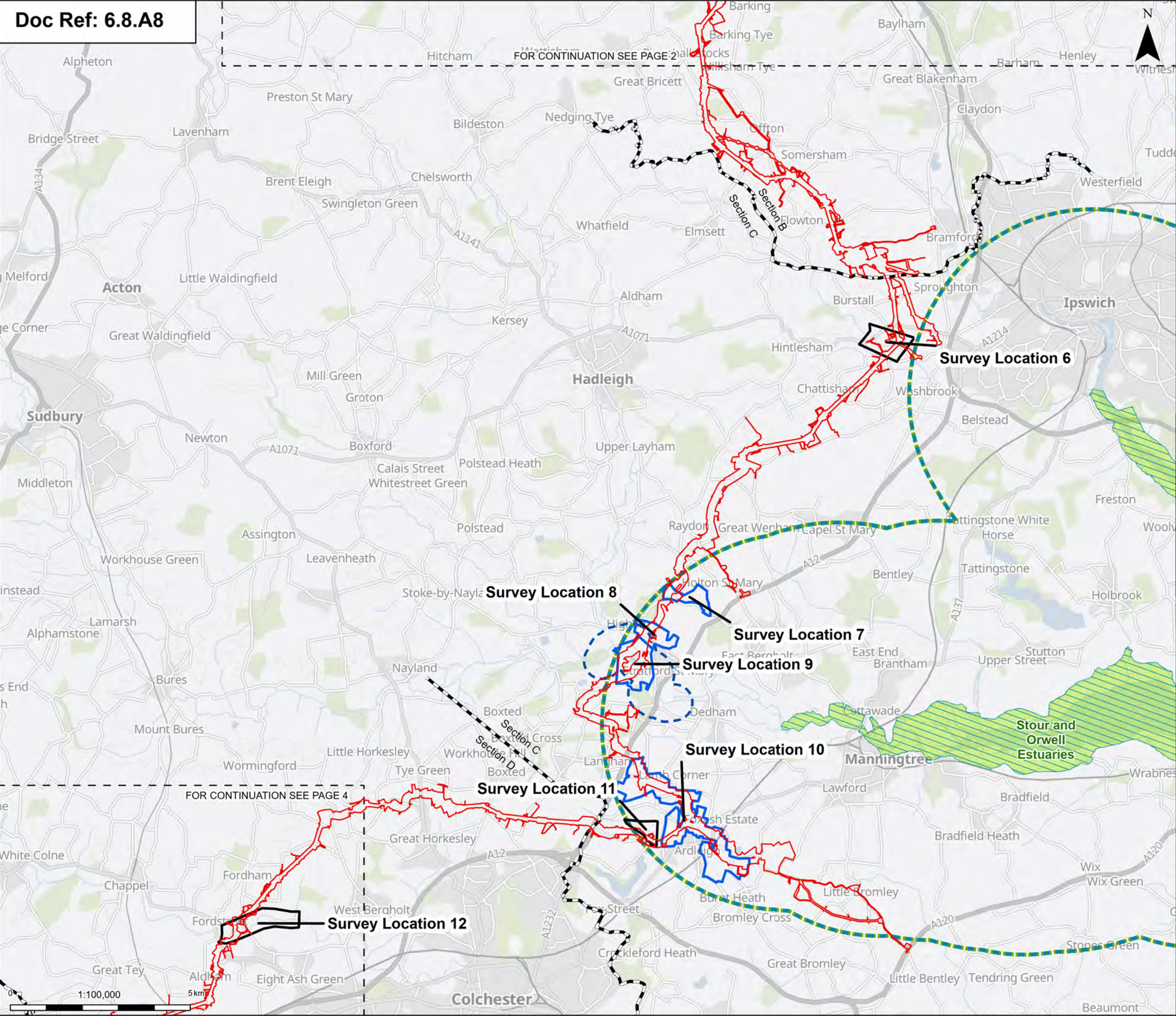
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Discipline specific constraints

Vantage Point (VP)

Transect

500 m Study Area - River Stour

Special Protection Area

Ramsar

Special Protection Area 5 km Study Area

Ramsar 5 km Study Area

Note: 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 to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.8.1 - Ecology and Biodiversity Wintering/Passage Bird Survey Locations

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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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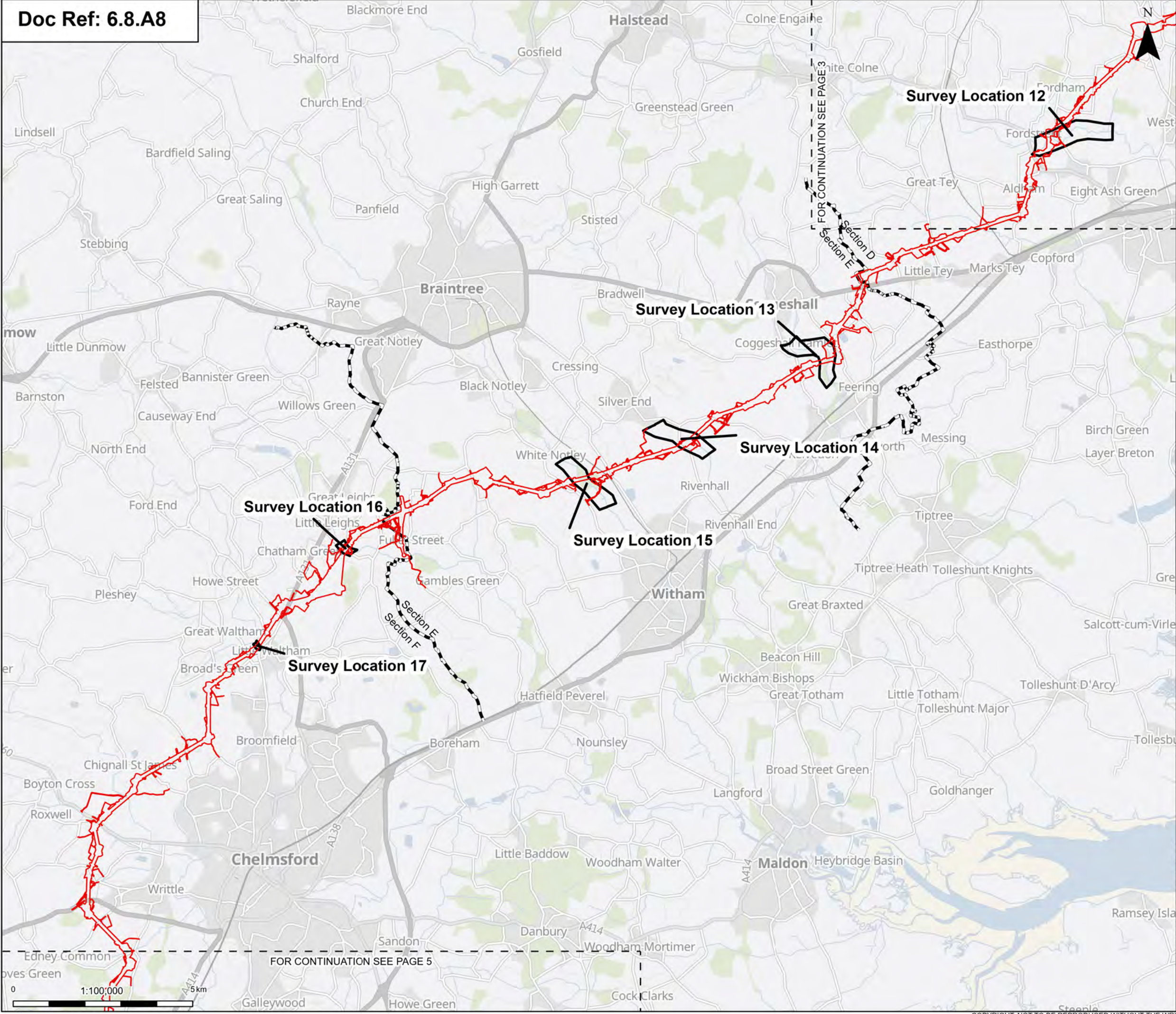
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Project section line

Discipline specific constraints

Vantage Point (VP)

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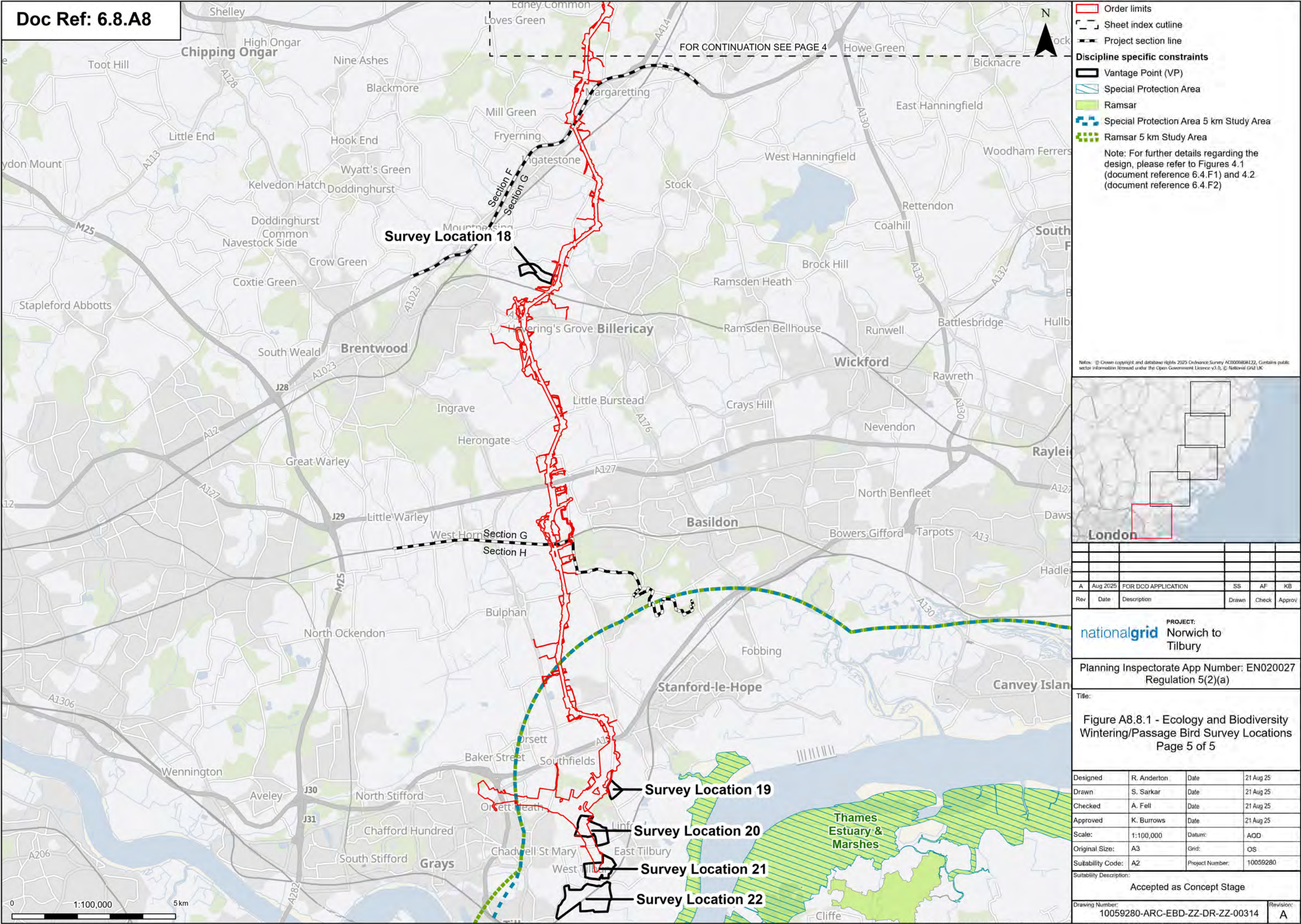
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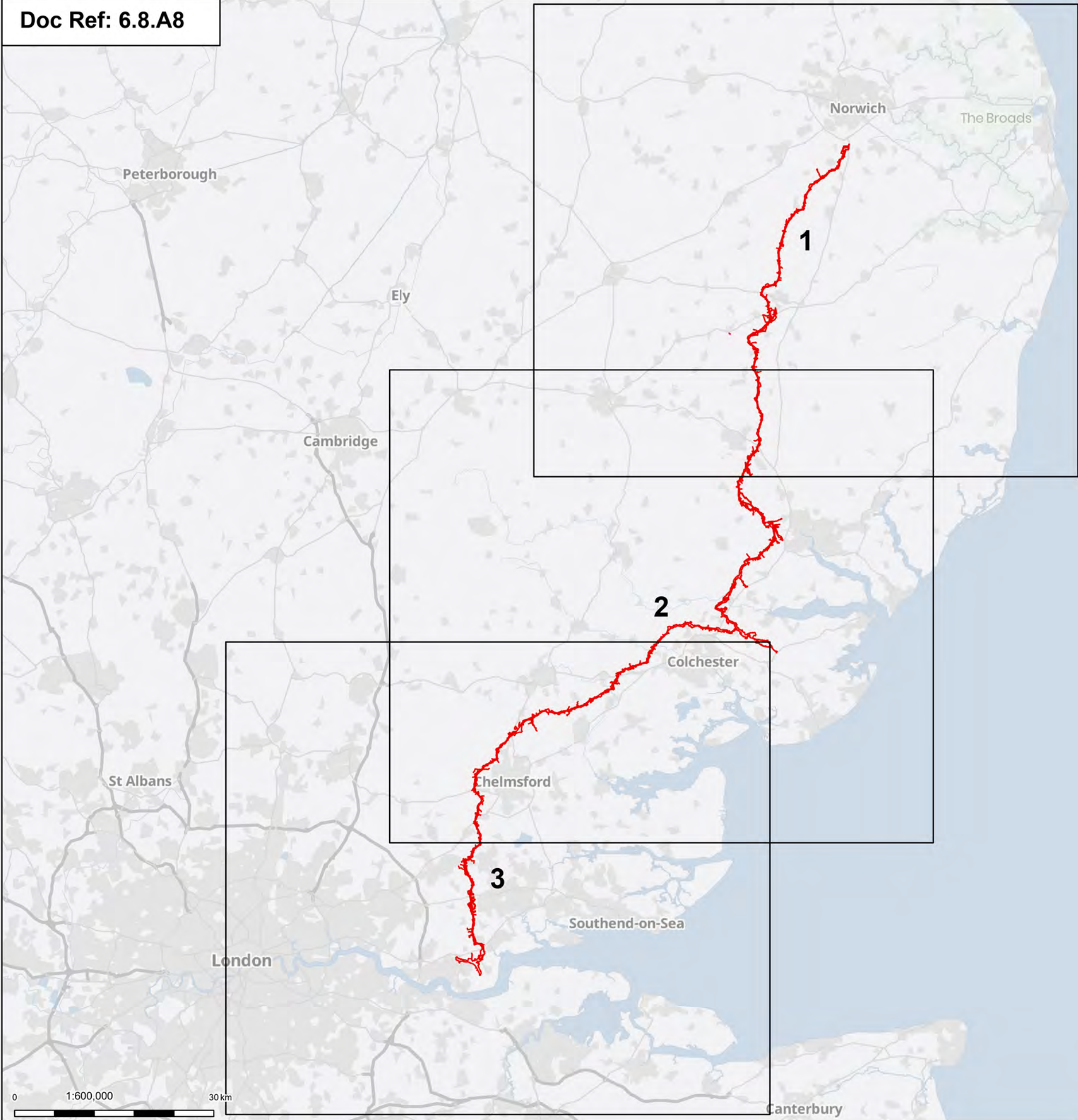
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Figure A8.8.1 - Ecology and Biodiversity
Wintering/Passage Bird Survey Locations
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Suitability Code:	A2	Project Number:	10059280
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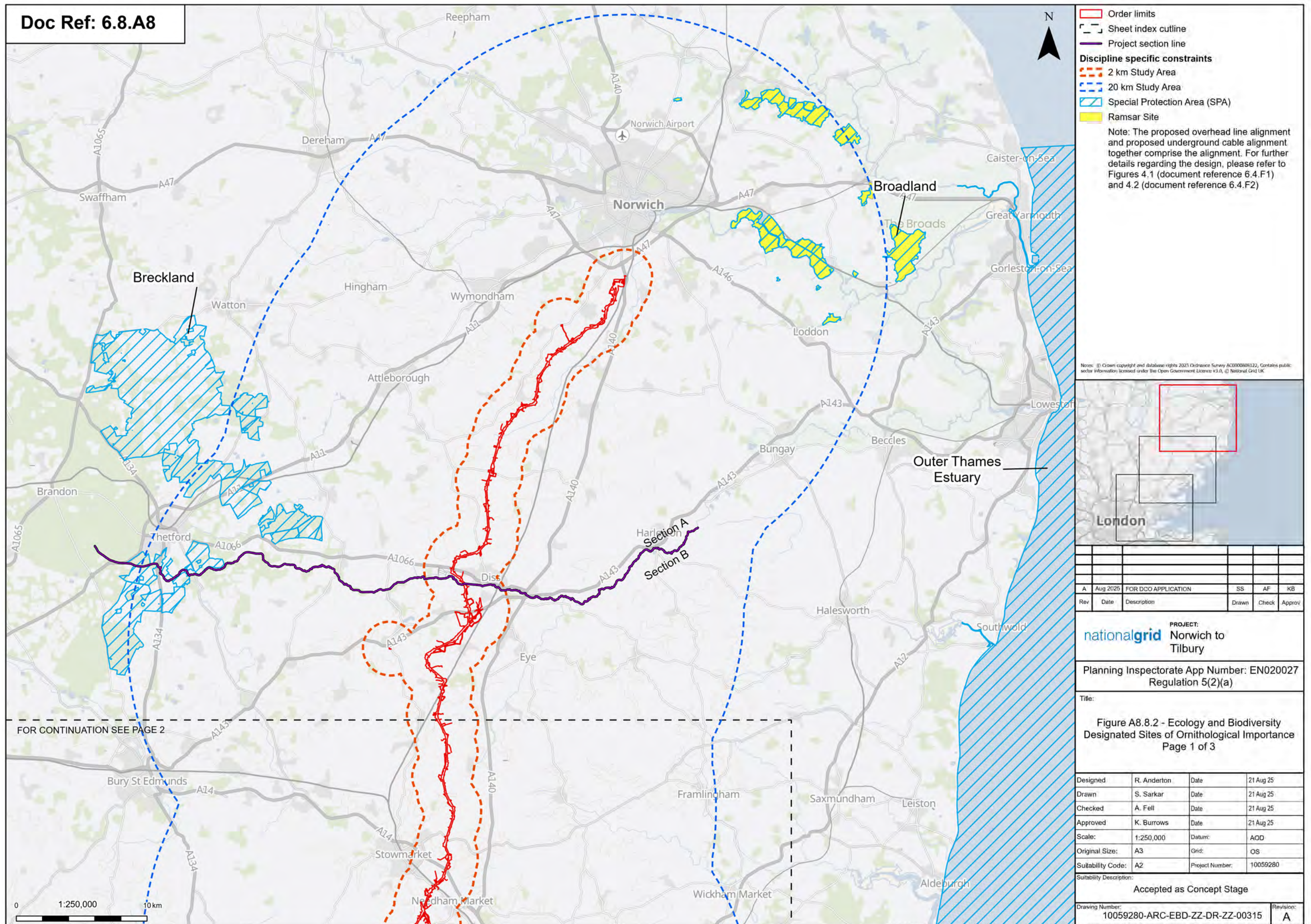
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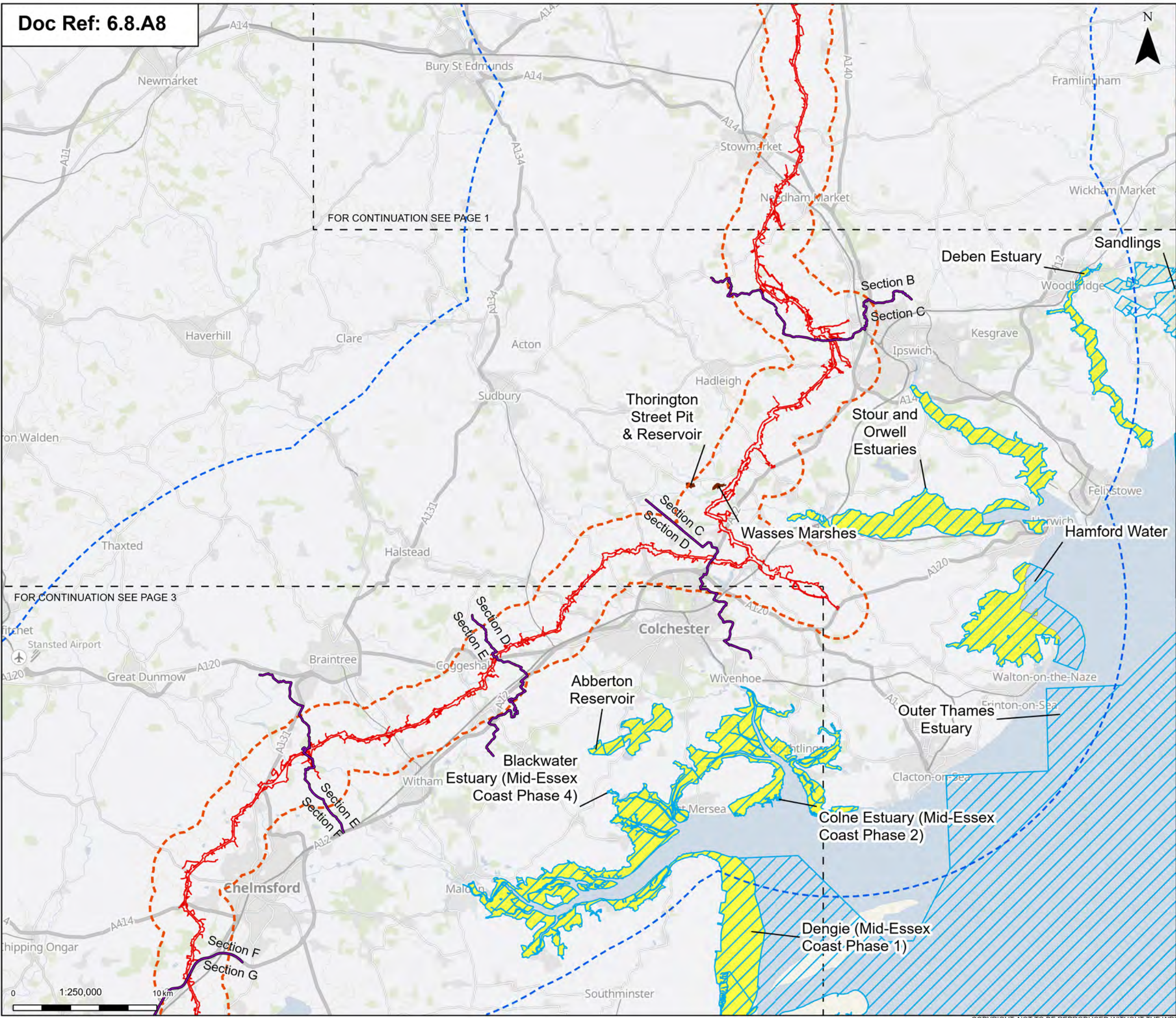
Figure A8.8.2 - Ecology and Biodiversity
Designated Sites of Ornithological Importance
Overview

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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:600,000	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-00315
Revision:
A





Order limits

Sheet index outline

Project section line

Discipline specific constraints

2 km Study Area

20 km Study Area

County Wildlife Site (CWS)

Special Protection Area (SPA)

Ramsar Site

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)

FOR CONTINUATION SEE PAGE 1

FOR CONTINUATION SEE PAGE 3

London

Hamford Water

Outer Thames Estuary

Colne Estuary (Mid-Essex Coast Phase 2)

Dengie (Mid-Essex Coast Phase 1)

Blackwater Estuary (Mid-Essex Coast Phase 4)

Abberton Reservoir

Wasses Marshes

Stour and Orwell Estuaries

Thorington Street Pit & Reservoir

Section A

Section B

Section C

Section D

Section E

Section F

Section G

0

1:250,000

10 km

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Norwich to Tilbury

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

Title:

Figure A8.8.2 - Ecology and Biodiversity Designated Sites of Ornithological Importance
Page 2 of 3

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:

1:250,000

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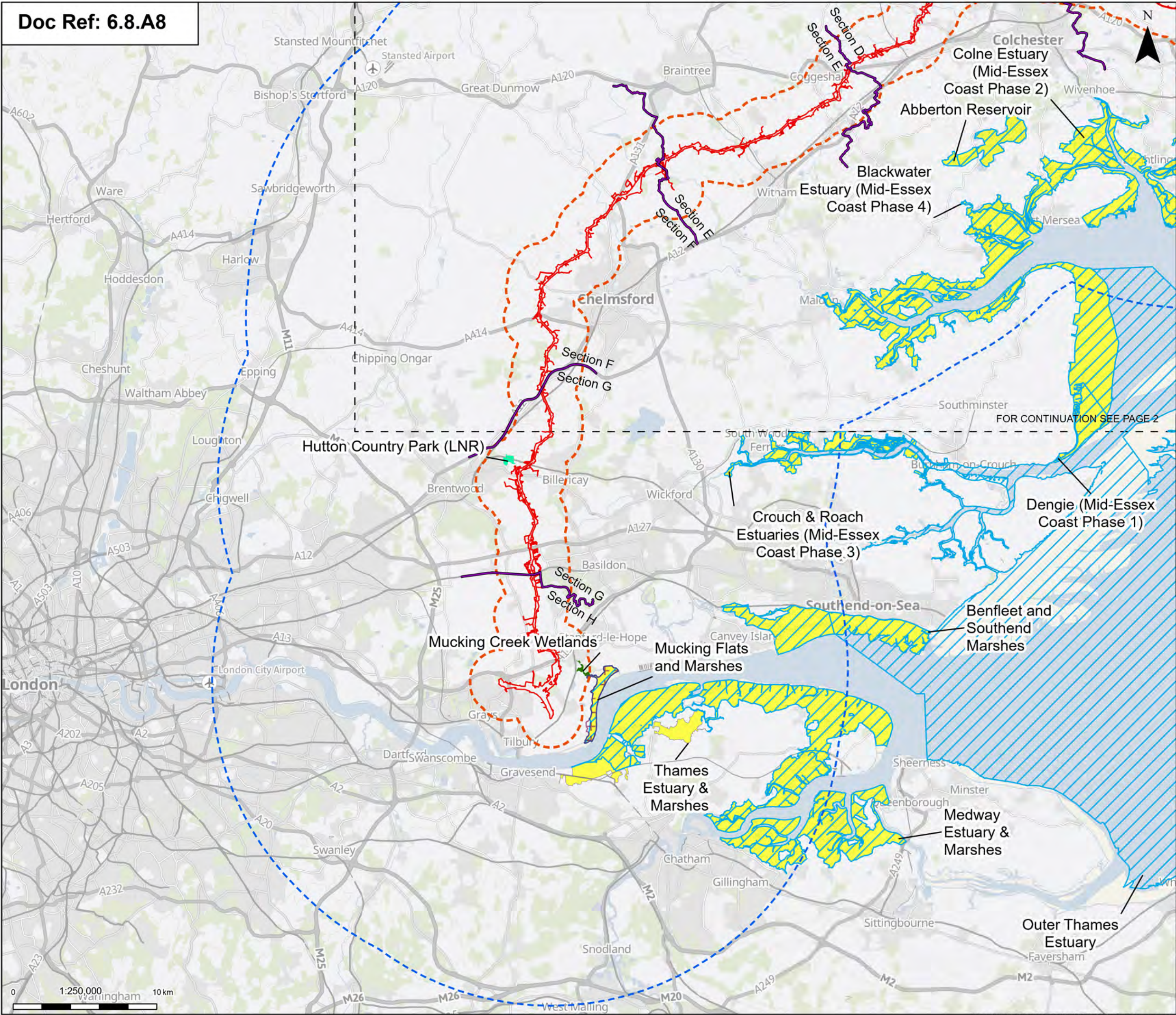
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Revision:

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Order limits

Sheet index outline

Project section line

Discipline specific constraints

2 km Study Area

20 km Study Area

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Special Scientific Interest (SSSI)

Special Protection Area (SPA)

Ramsar Site

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 to Tilbury

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

Title:

Figure A8.8.2 - Ecology and Biodiversity
Designated Sites of Ornithological Importance
Page 3 of 3

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:	1:250,000	Datum:	AOD
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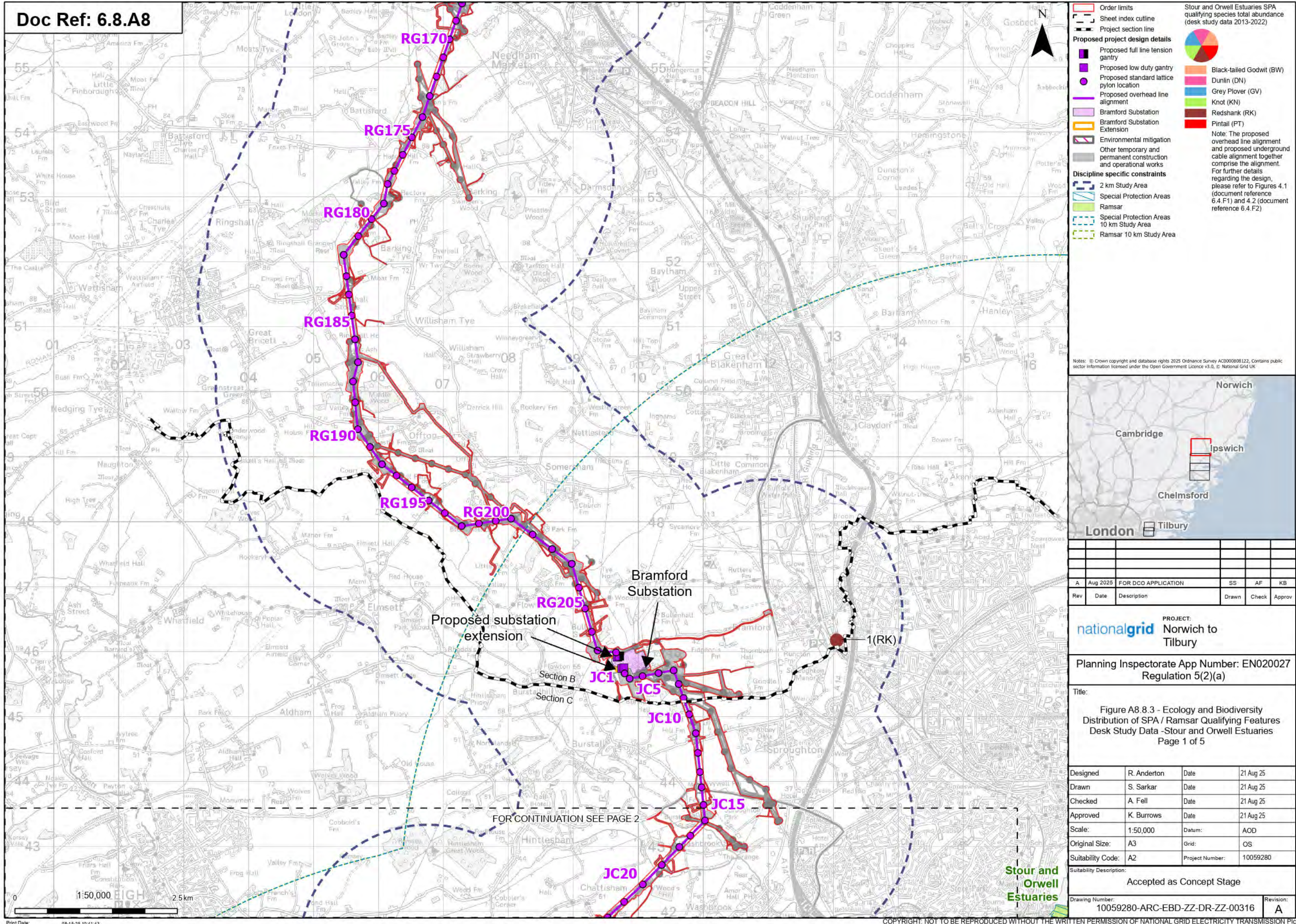
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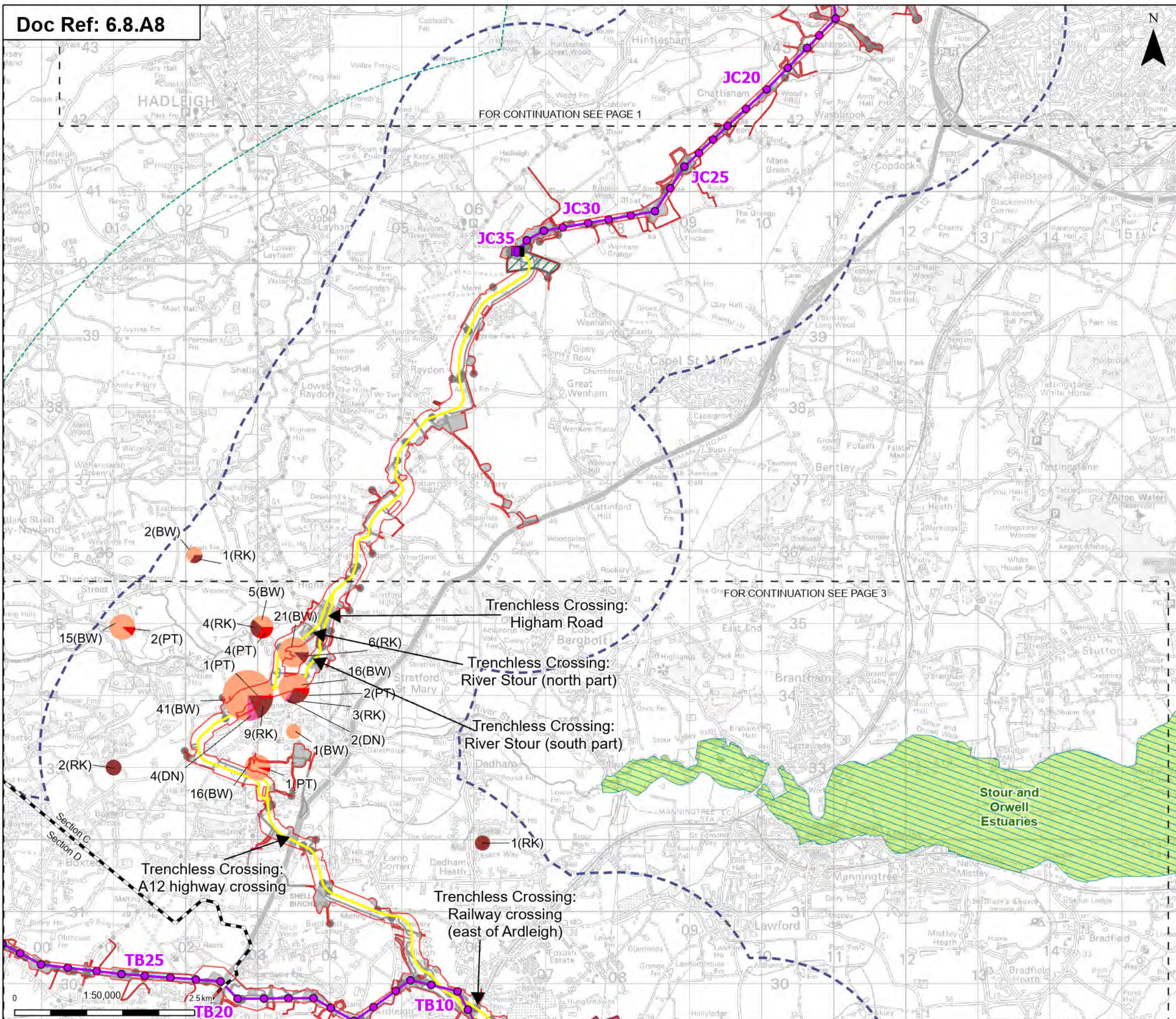
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Project section line

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
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA qualifying species total abundance (desk study data 2013-2022)

- Black-tailed Godwit (BW)
- Dunlin (DN)
- Grey Plover (GV)
- Knot (KN)
- Redshank (RK)
- Pintail (PT)

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

London

Tilbury

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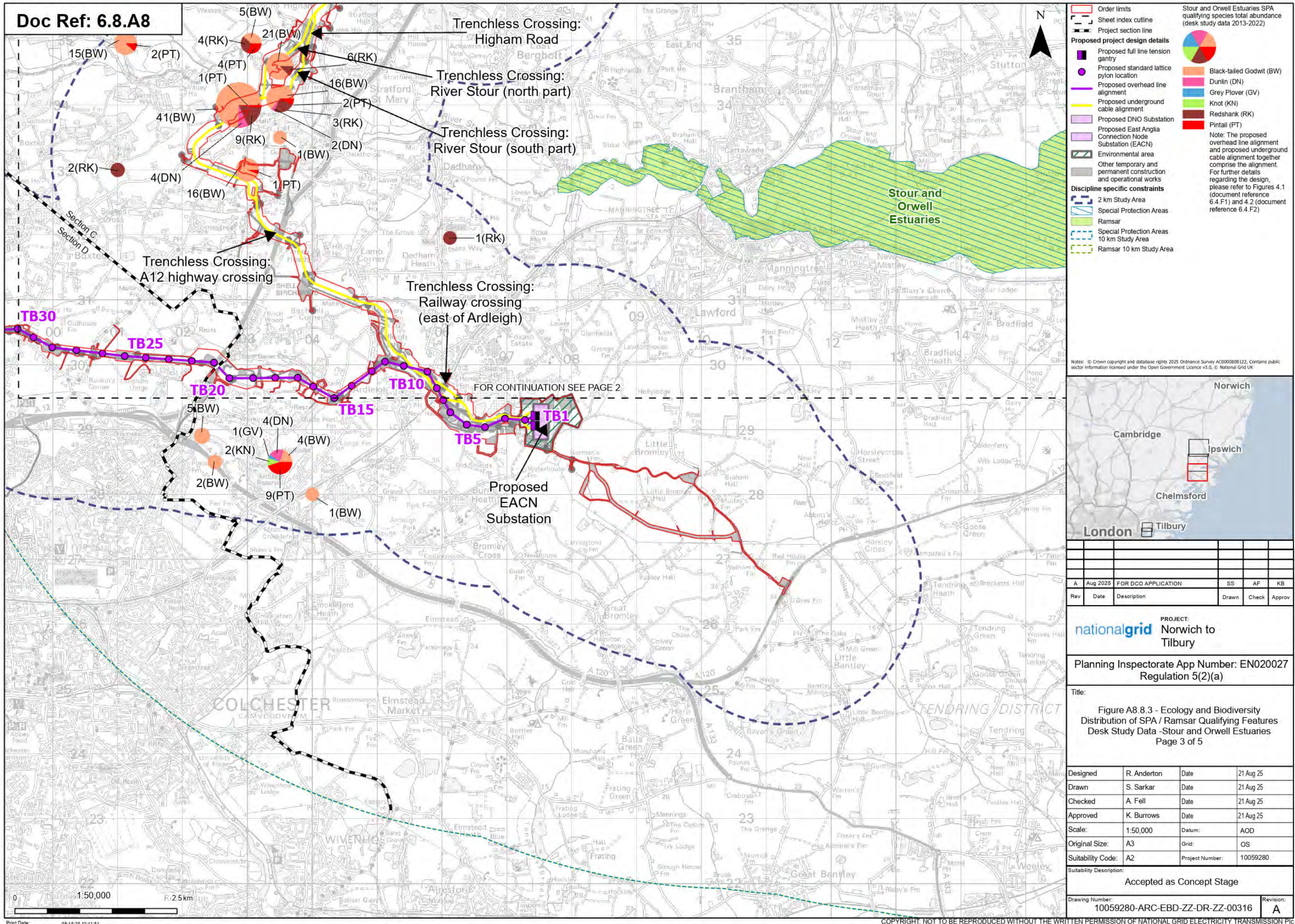
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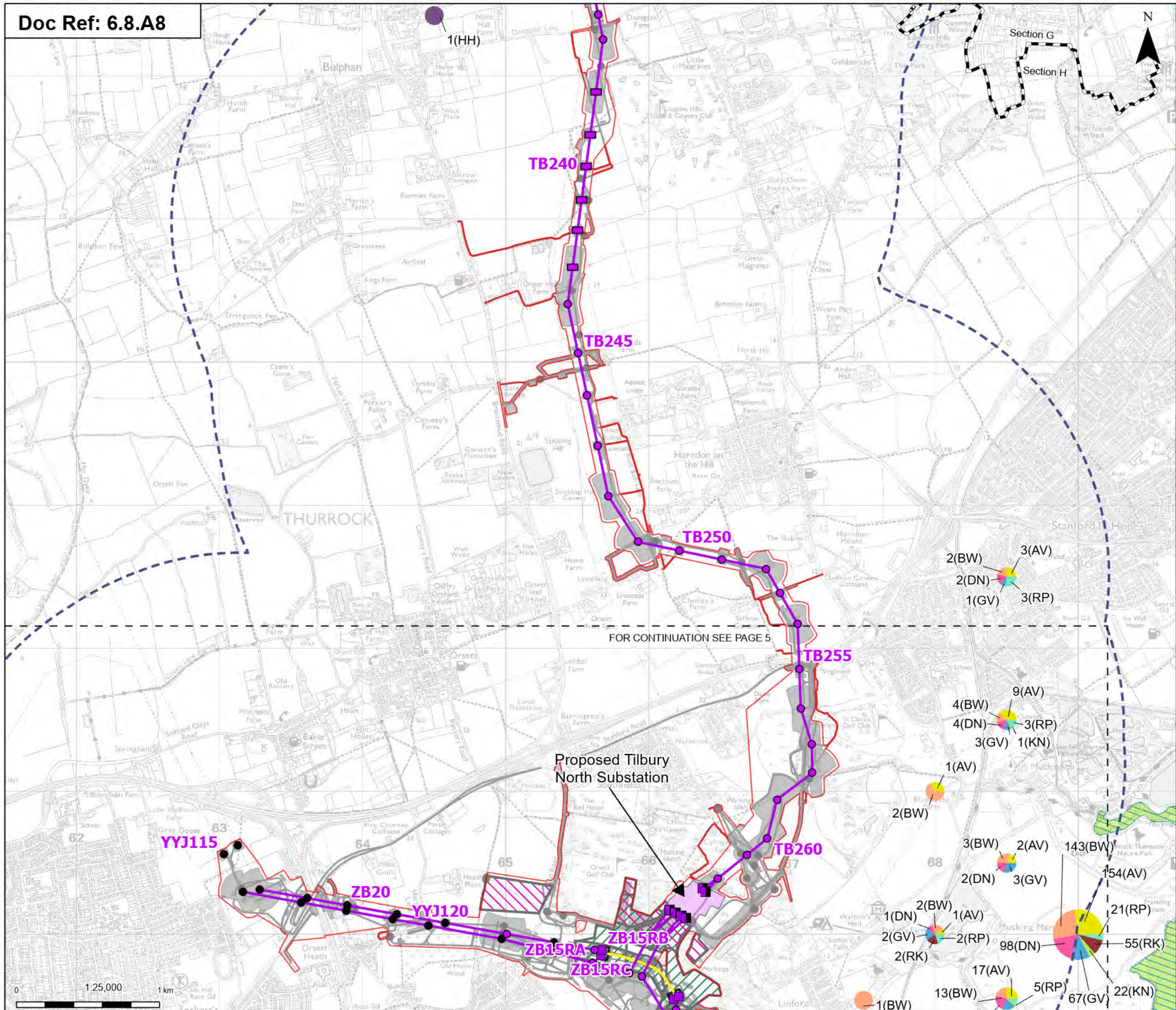
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:50,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

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- 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
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Thames Estuary and Marshes SPA qualifying species total abundance (desk study data 2013-2022)

- Avocet (AV)
- Black-tailed Godwit (BW)
- Dunlin (DN)
- Grey Plover (GV)
- Hen Harrier (HH)
- Knot (KN)
- Redshank (RK)
- Ringed Plover (RP)

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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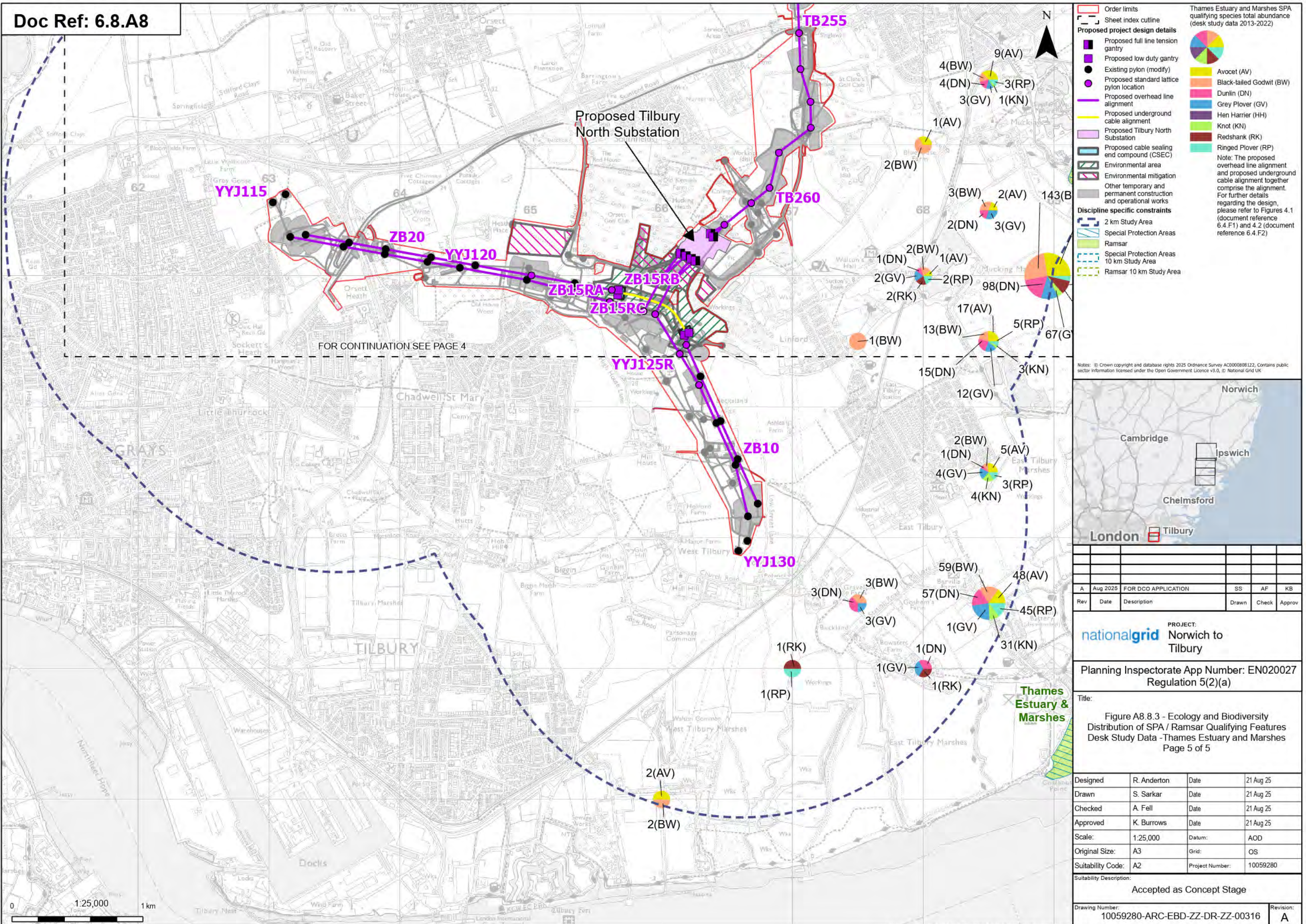
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00316	Revision:	A
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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB
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Title:
Figure A8.8.3 - Ecology and Biodiversity
Distribution of SPA / Ramsar Qualifying Features
Desk Study Data -Thames Estuary and Marshes
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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

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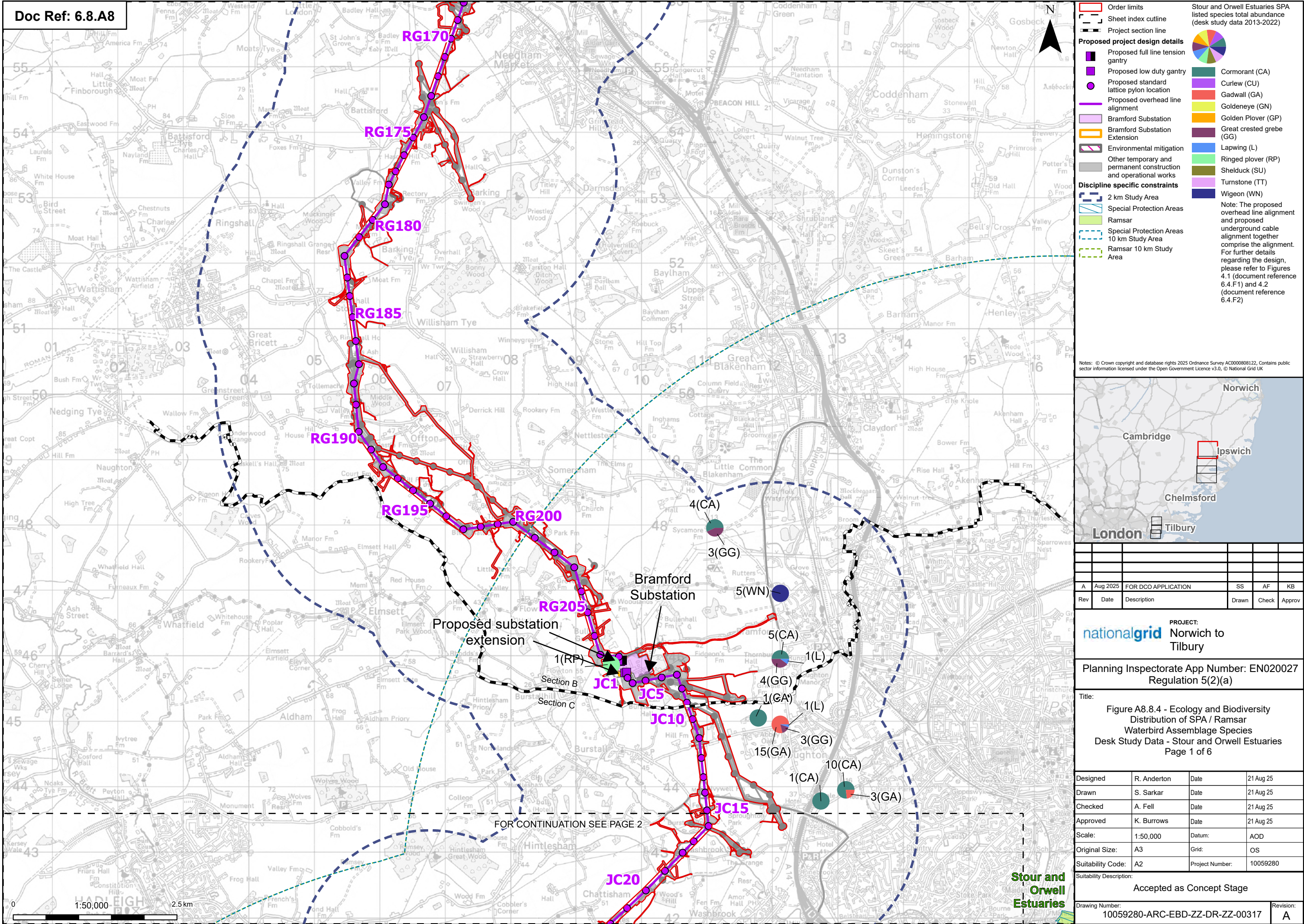
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Distribution of SPA / Ramsar
Waterbird Assemblage Species
Desk Study Data -
Overview

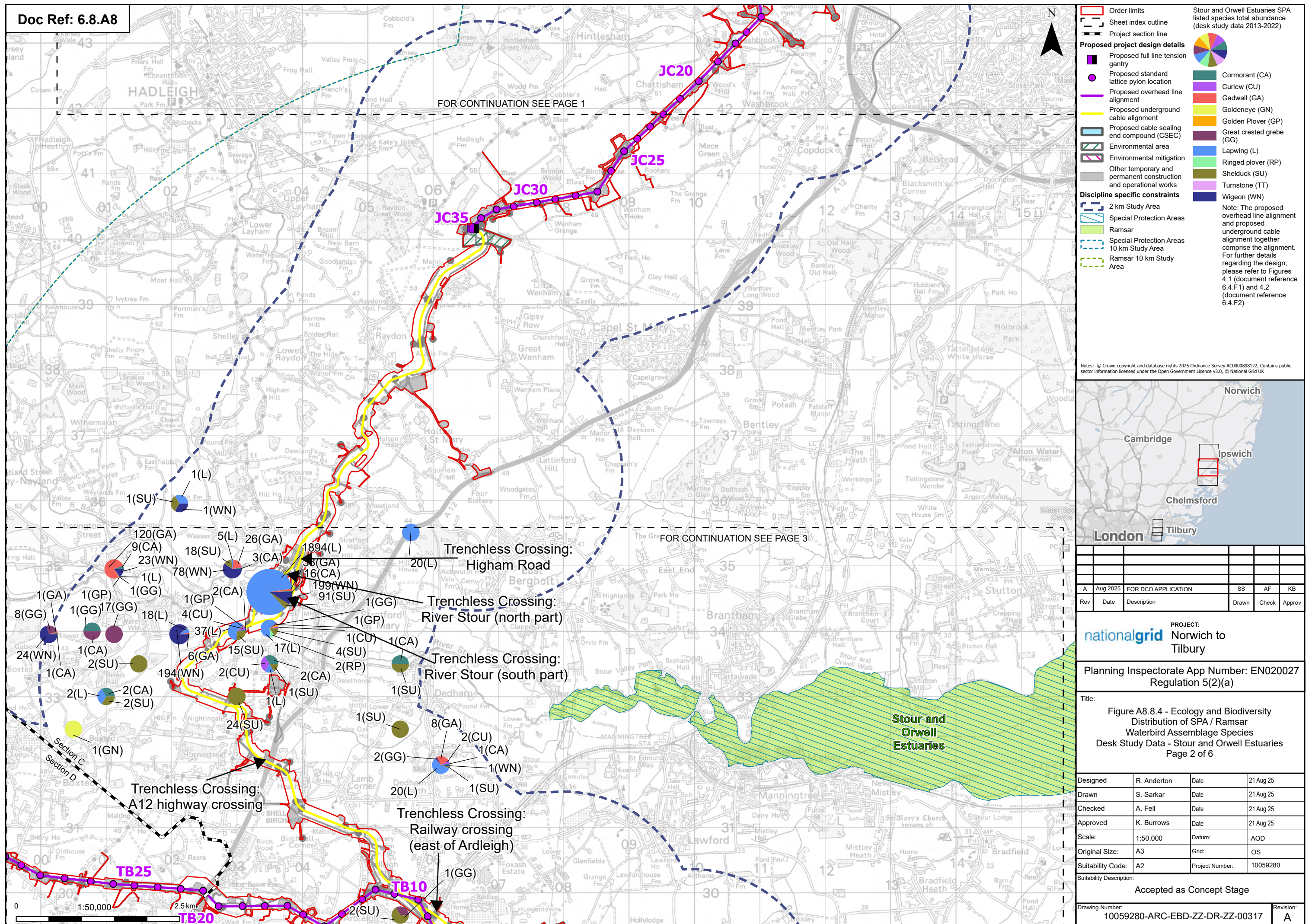
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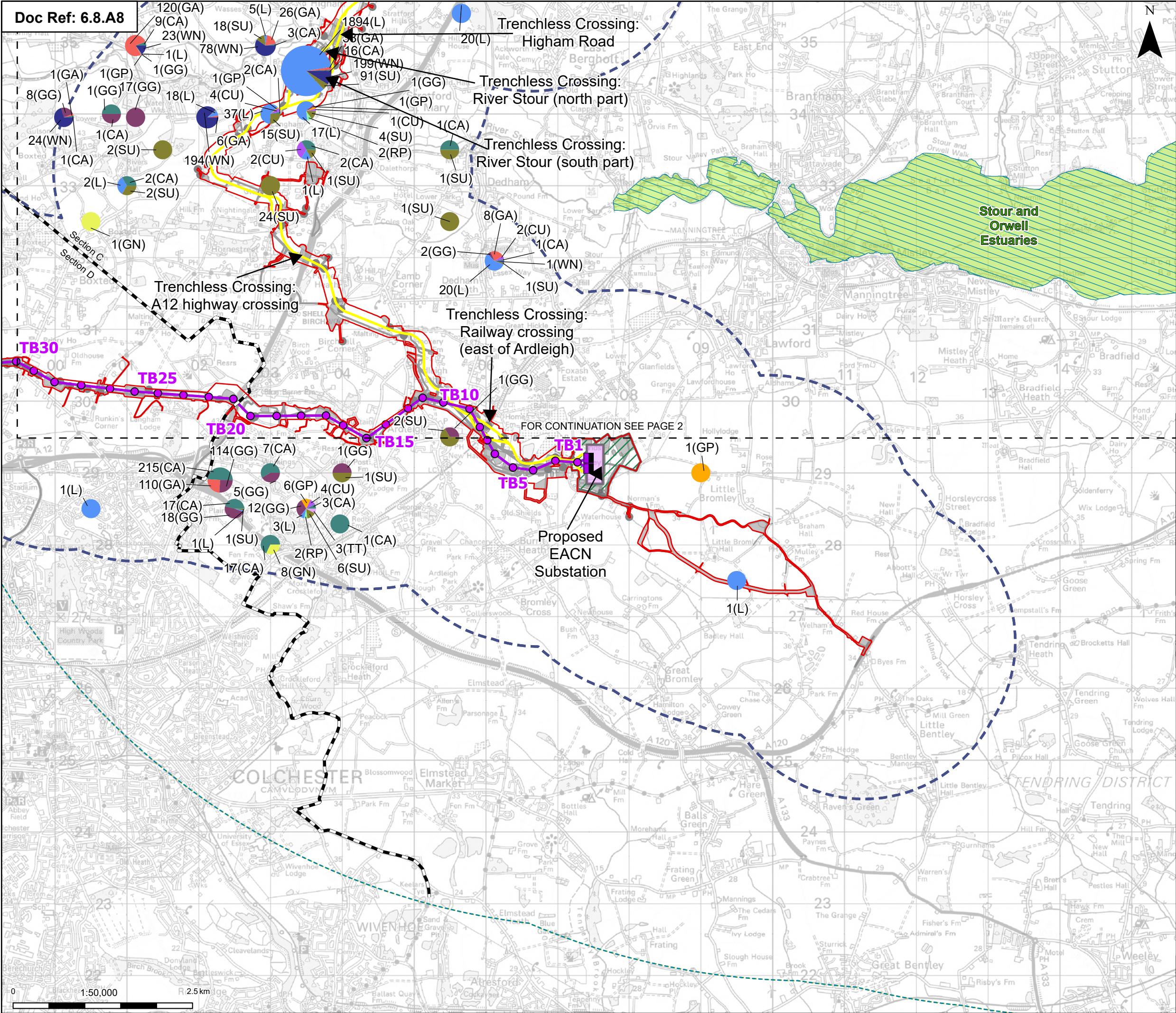
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Drawing Number:	Revision:
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Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed DNO Substation
- Proposed East Anglia Connection Node Substation (EACN)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Special Protection Areas
- Ramsar
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Stour and Orwell Estuaries SPA listed species total abundance (desk study data 2013-2022)

Cormorant (CA)	Lapwing (L)
Curlew (CU)	Ringed plover (RP)
Gadwall (GA)	Shelduck (SU)
Goldeneye (GN)	Turnstone (TT)
Golden Plover (GP)	Widgeon (WN)
Great crested grebe (GG)	

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 6.4.F1 and 6.4.F2 (document reference 6.4.F1 and 6.4.F2)

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Norwich

Cambridge

Ipswich

Chelmsford

London

Tilbury

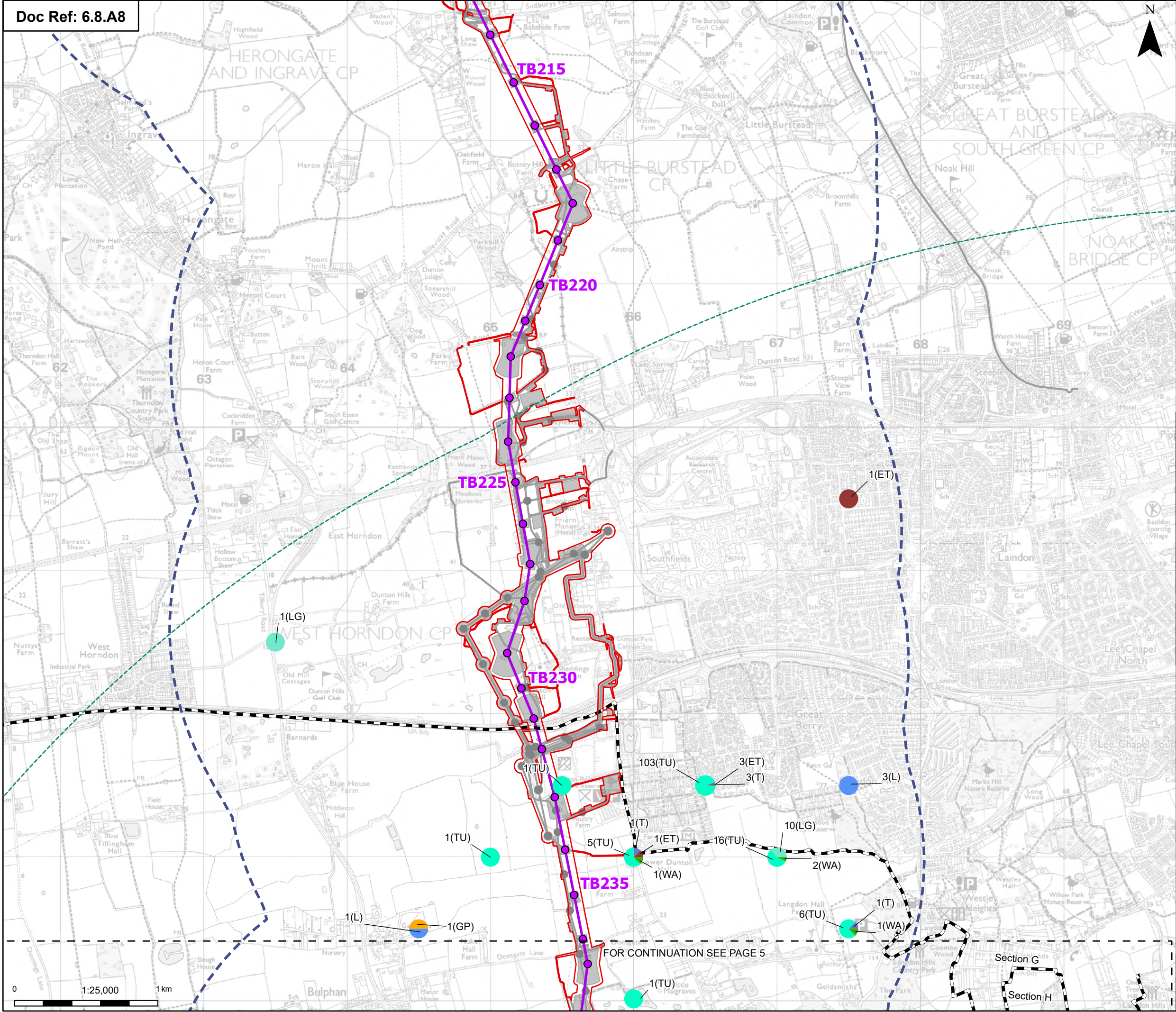
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Title: **Figure A8.8.4 - Ecology and Biodiversity Distribution of SPA / Ramsar Waterbird Assemblage Species Desk Study Data - Stour and Orwell Estuaries Page 3 of 6**

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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:	1:50,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280
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Project section line

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

2 km Study Area

Special Protection Areas

10 km Study Area

Ramsar 10 km Study Area

Discipline specific constraints

Gadwall (GA)

Greenshank (GK)

Golden Plover (GP)

Lapwing (L)

Little Egret (ET)

Little Grebe (LG)

Pintail (PT)

Pochard (PO)

Ruff (RU)

Shelduck (SU)

Shoveler (SV)

Spotted Redshank (DR)

Teal (T)

Tufted Duck (TU)

Water Rail (WA)

Thames Estuary and Marshes SPA listed species 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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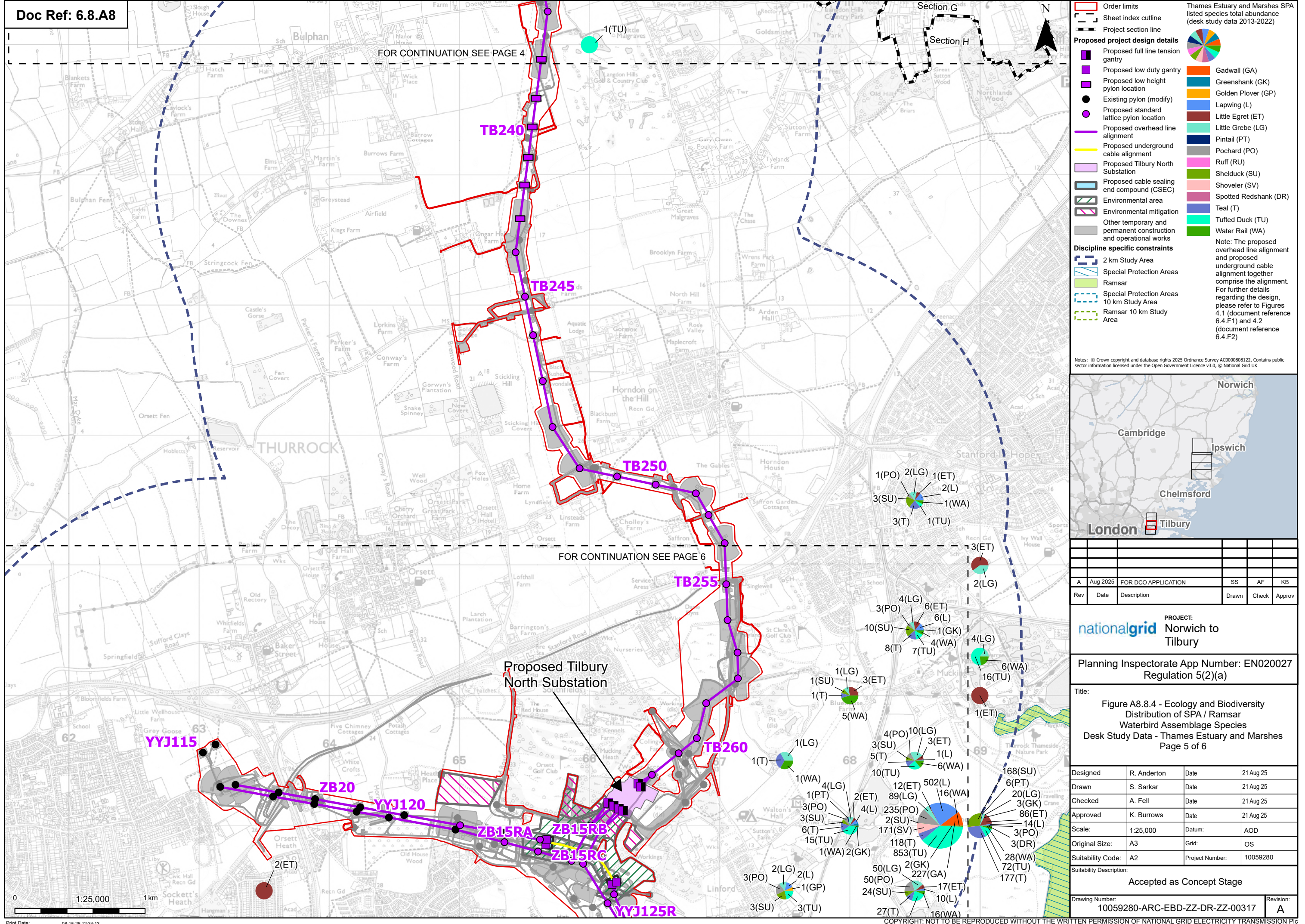
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Distribution of SPA / Ramsar
Waterbird Assemblage Species
Desk Study Data - Thames Estuary and Marshes
Page 4 of 6

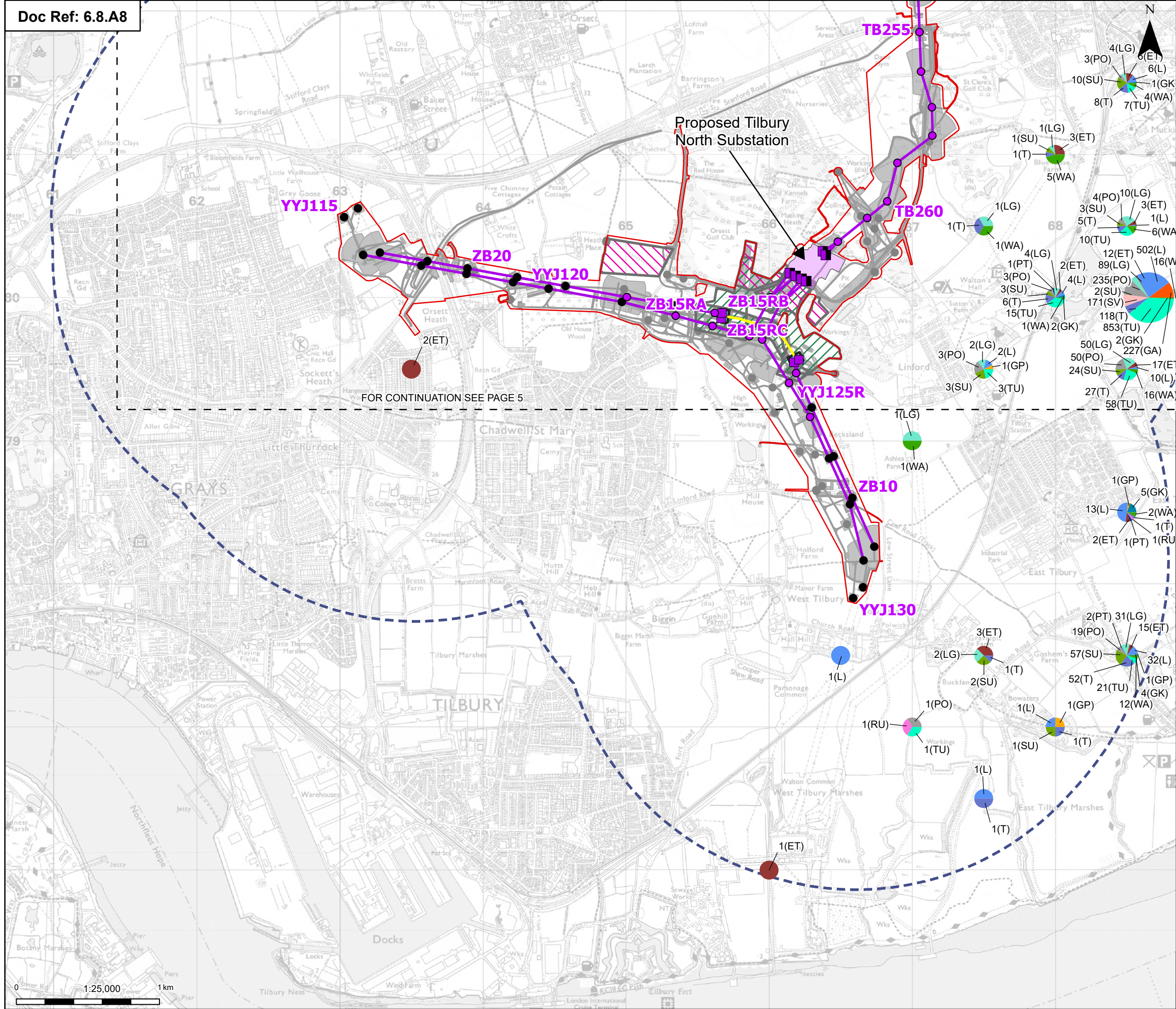
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- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Special Protection Areas 10 km Study Area
- Ramsar 10 km Study Area

Thames Estuary and Marshes SPA listed species total abundance (desk study data 2013-2022)

Species	Abundance
Gadwall (GA)	1
Greenshank (GK)	1
Golden Plover (GP)	1
Lapwing (L)	1
Little Egret (ET)	1
Little Grebe (LG)	1
Pintail (PT)	1
Pochard (PO)	1
Ruff (RU)	1
Shelduck (SU)	1
Shoveler (SV)	1
Spotted Redshank (DR)	1
Teal (T)	1
Tufted Duck (TU)	1
Water Rail (WA)	1

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

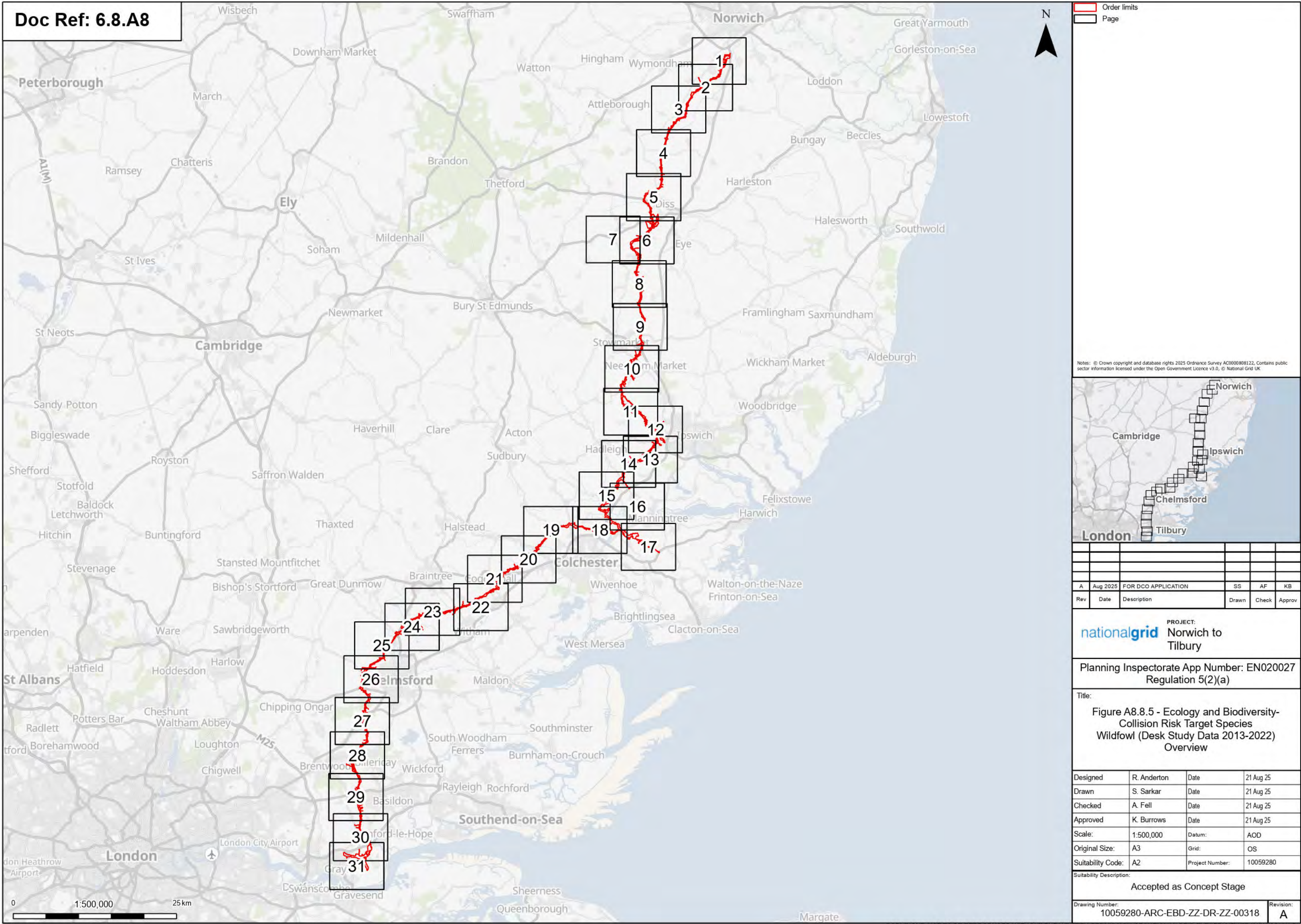
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Regulation 5(2)(a)

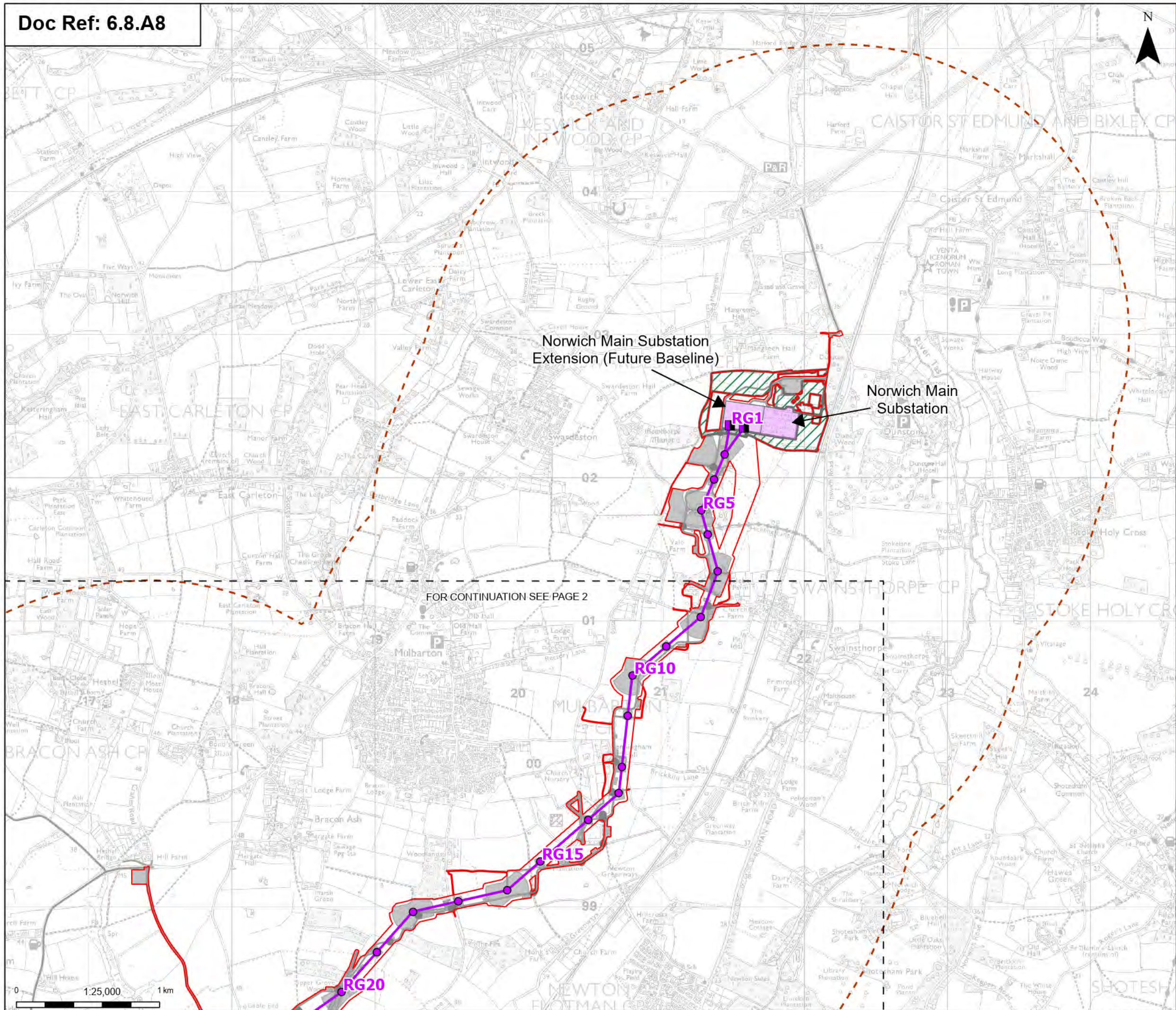
Title:
Figure A8.8.4 - Ecology and Biodiversity
Distribution of SPA / Ramsar
Waterbird Assemblage Species
Desk Study Data - Thames Estuary and Marshes
Page 6 of 6

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

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00317	Revision:	A
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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

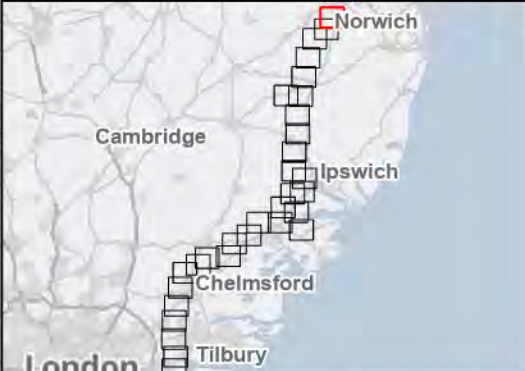
- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

PROJECT: **Norwich to Tilbury**

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

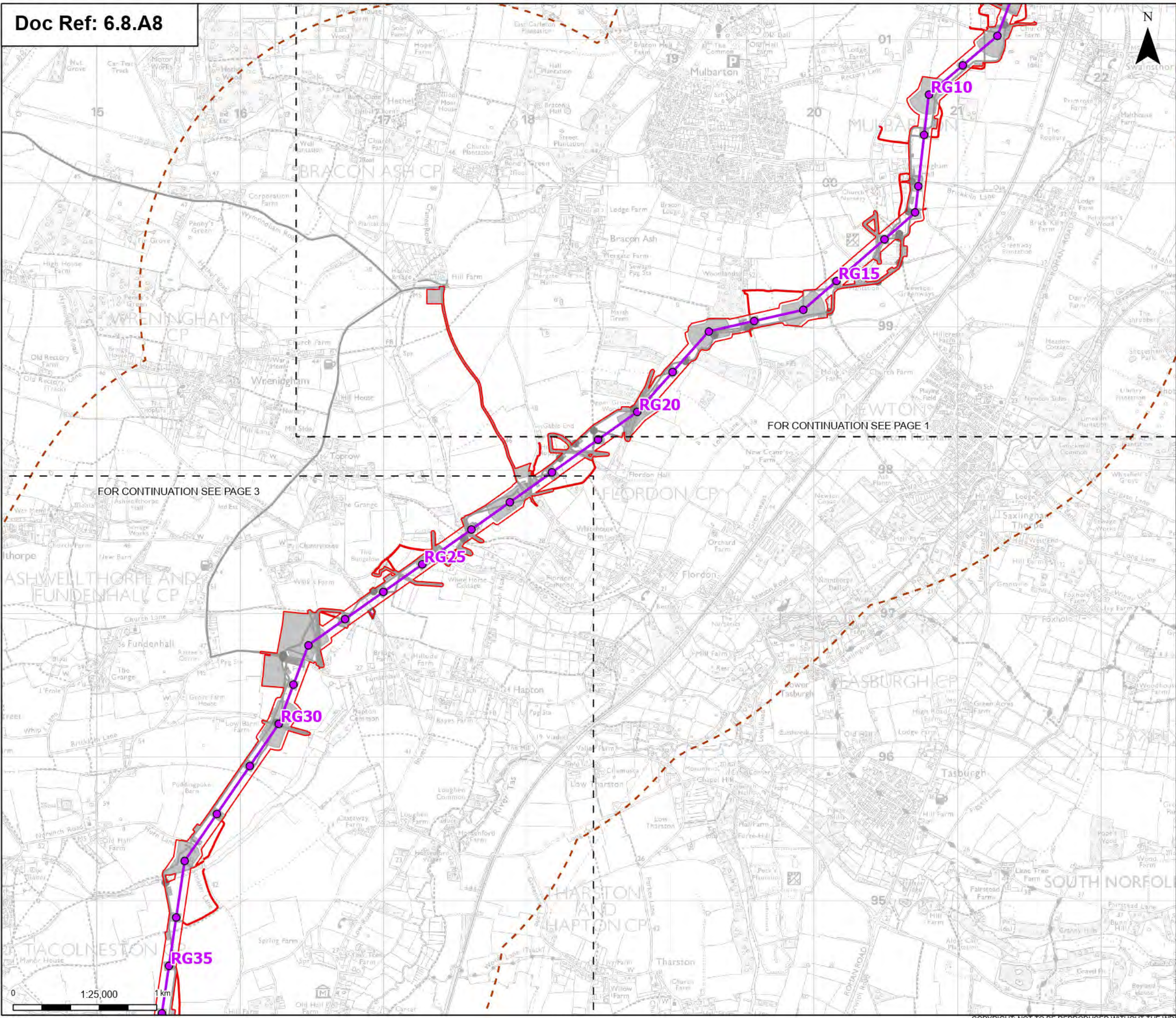
Title:
**Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 1 of 31**

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

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision:
A



Order limits

Sheet index outline

Proposed project design details

Discipline specific constraints

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

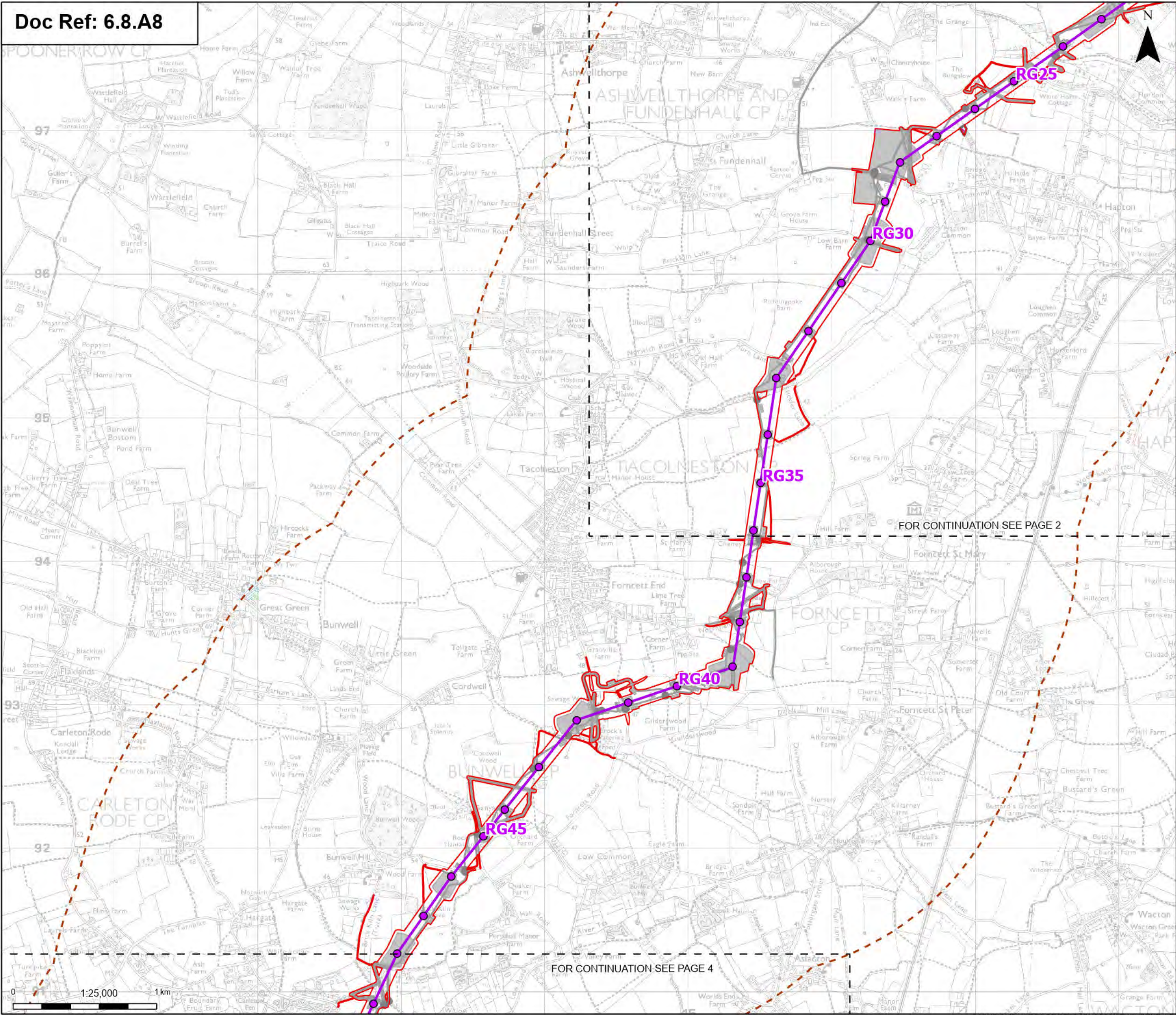
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Regulation 5(2)(a)

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 2 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision: A
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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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (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

Suitability Description:
Accepted as Concept Stage

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10059280-ARC-EBD-ZZ-DR-ZZ-00318
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FOR CONTINUATION SEE PAGE 5

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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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 A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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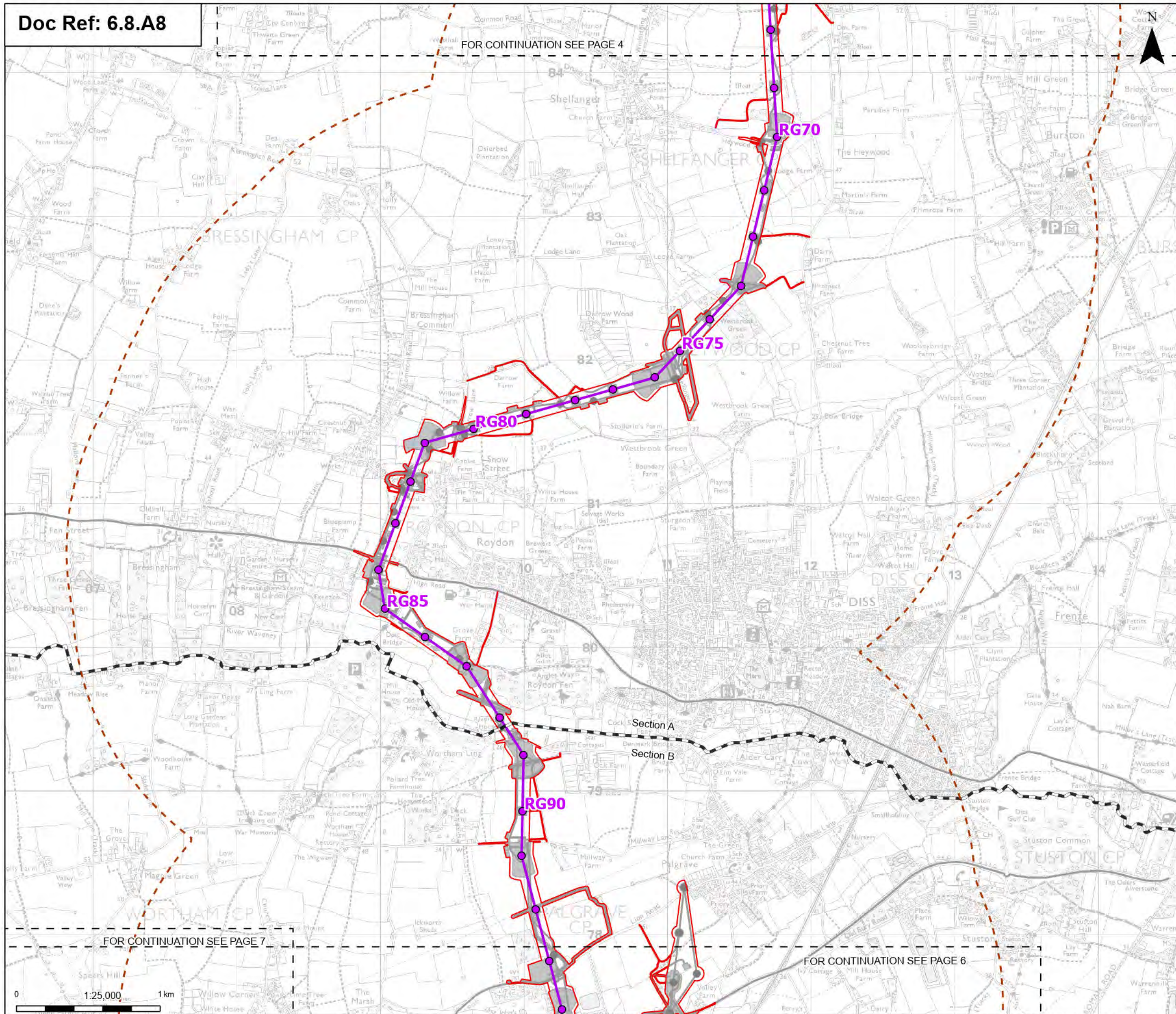
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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

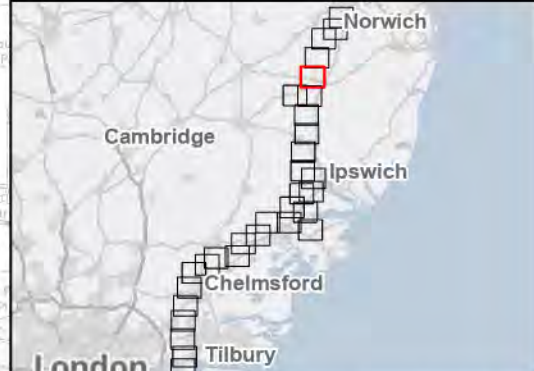
Discipline specific constraints
2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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 A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 5 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

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision:	A
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FOR CONTINUATION SEE PAGE 5

FOR CONTINUATION SEE PAGE 8
FOR CONTINUATION
SEE PAGE 7

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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 6 of 31

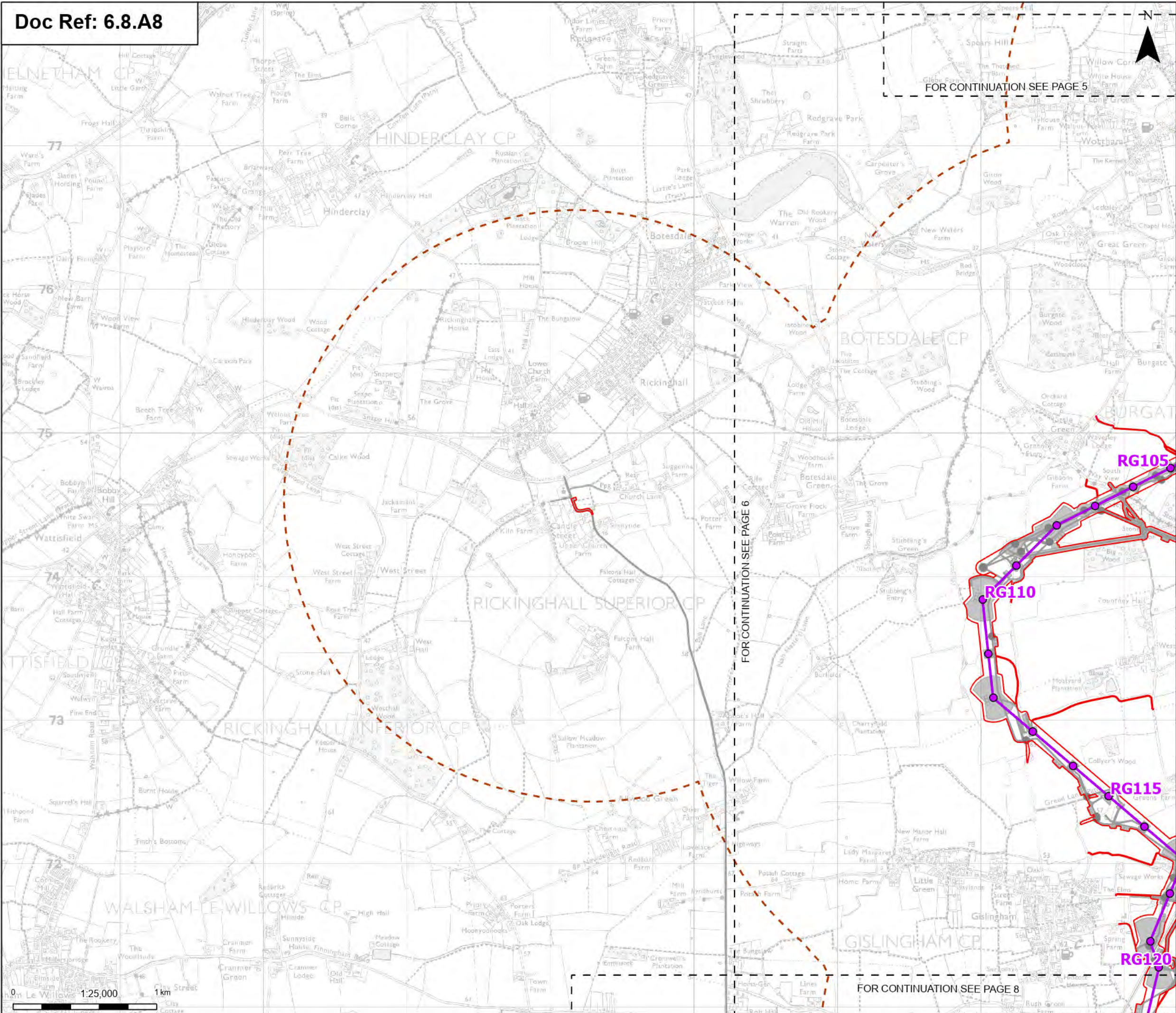
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318
Revision:
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Order limits

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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

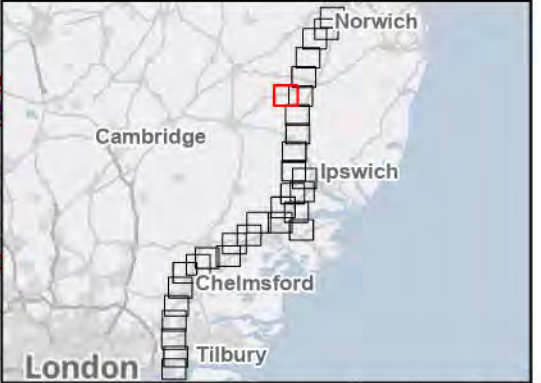
- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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**

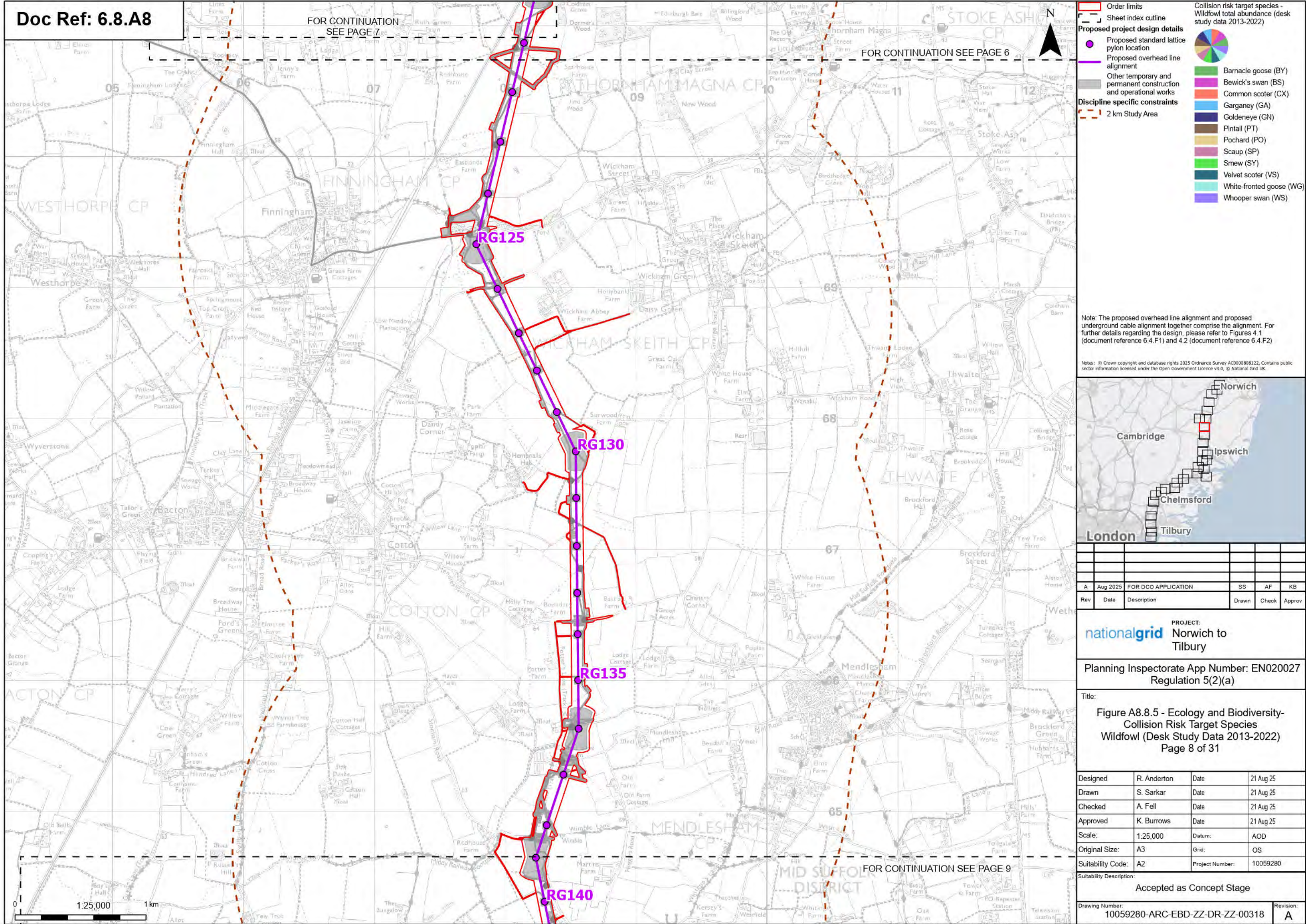
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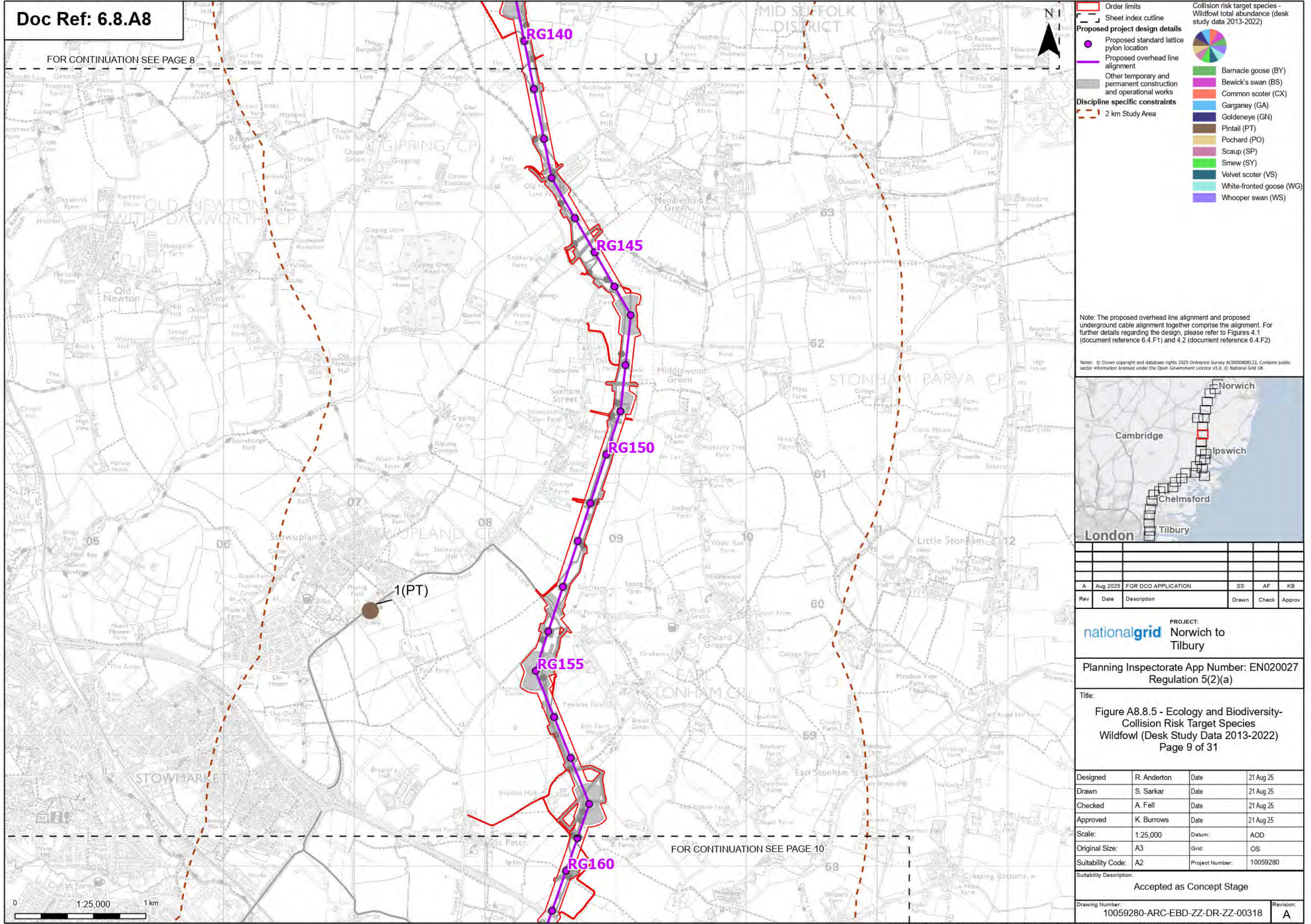
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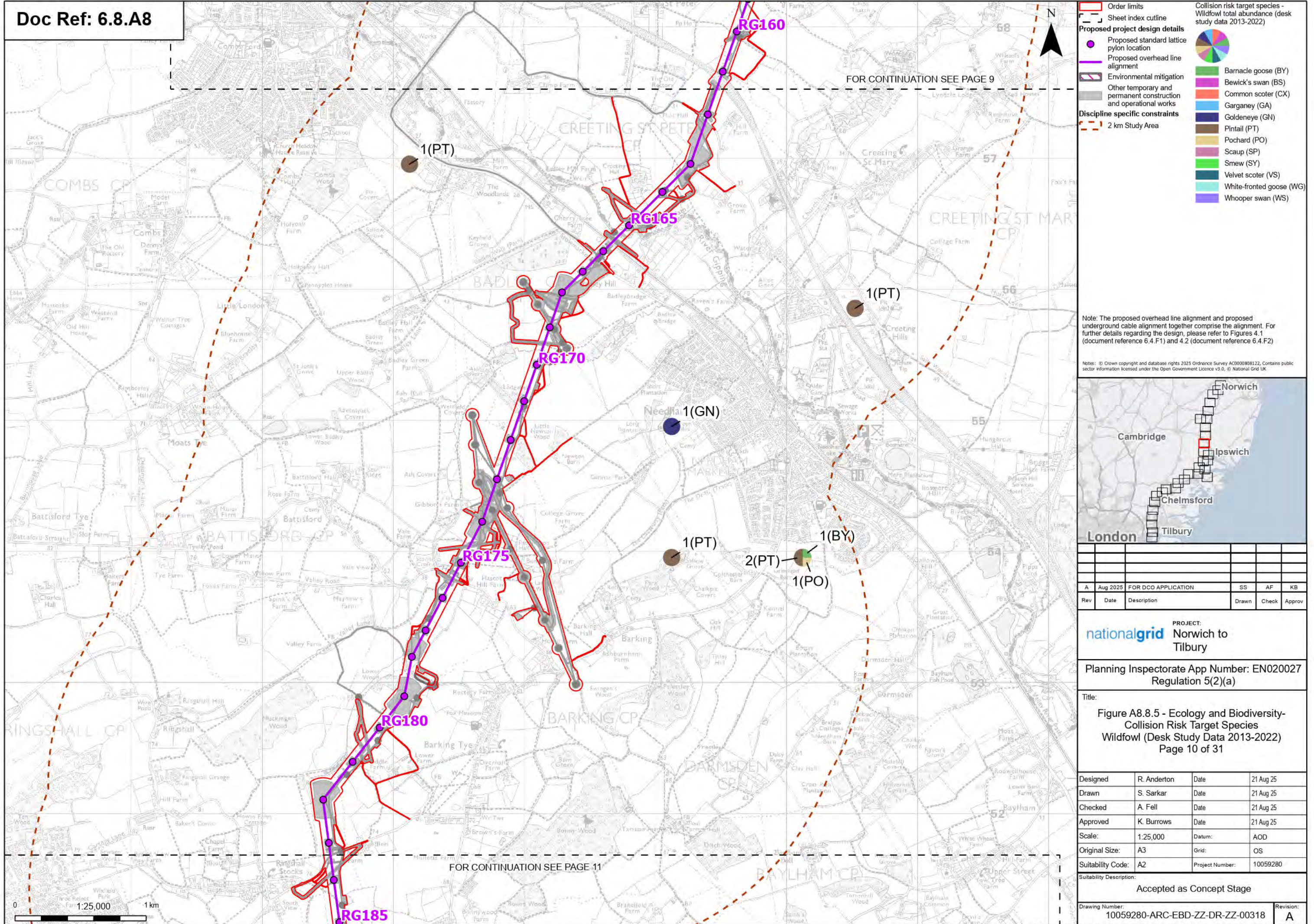
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

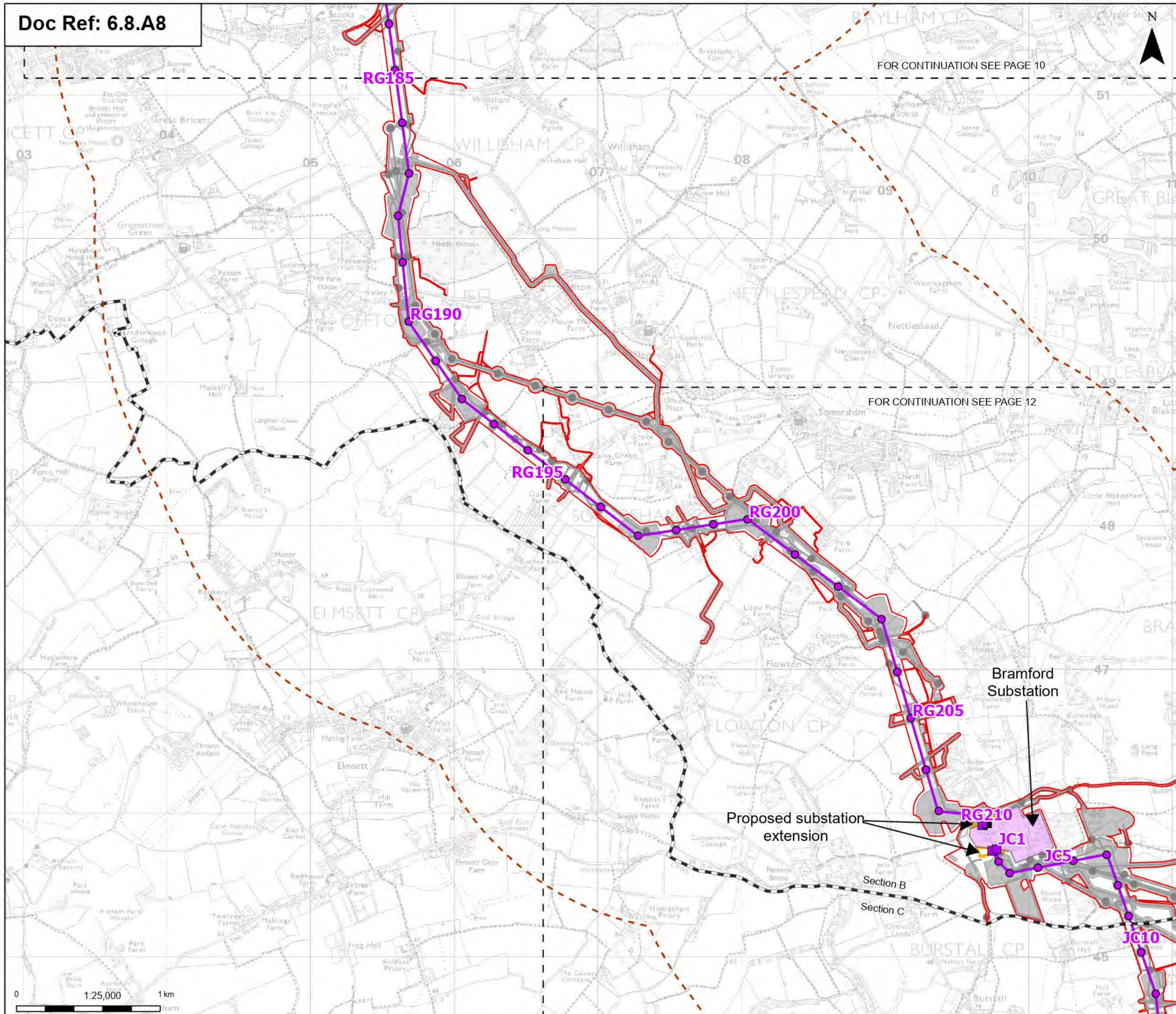
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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB
Rev	Date	Description	Drawn	Check	Approv



Order limits
Sheet index cutline
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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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)

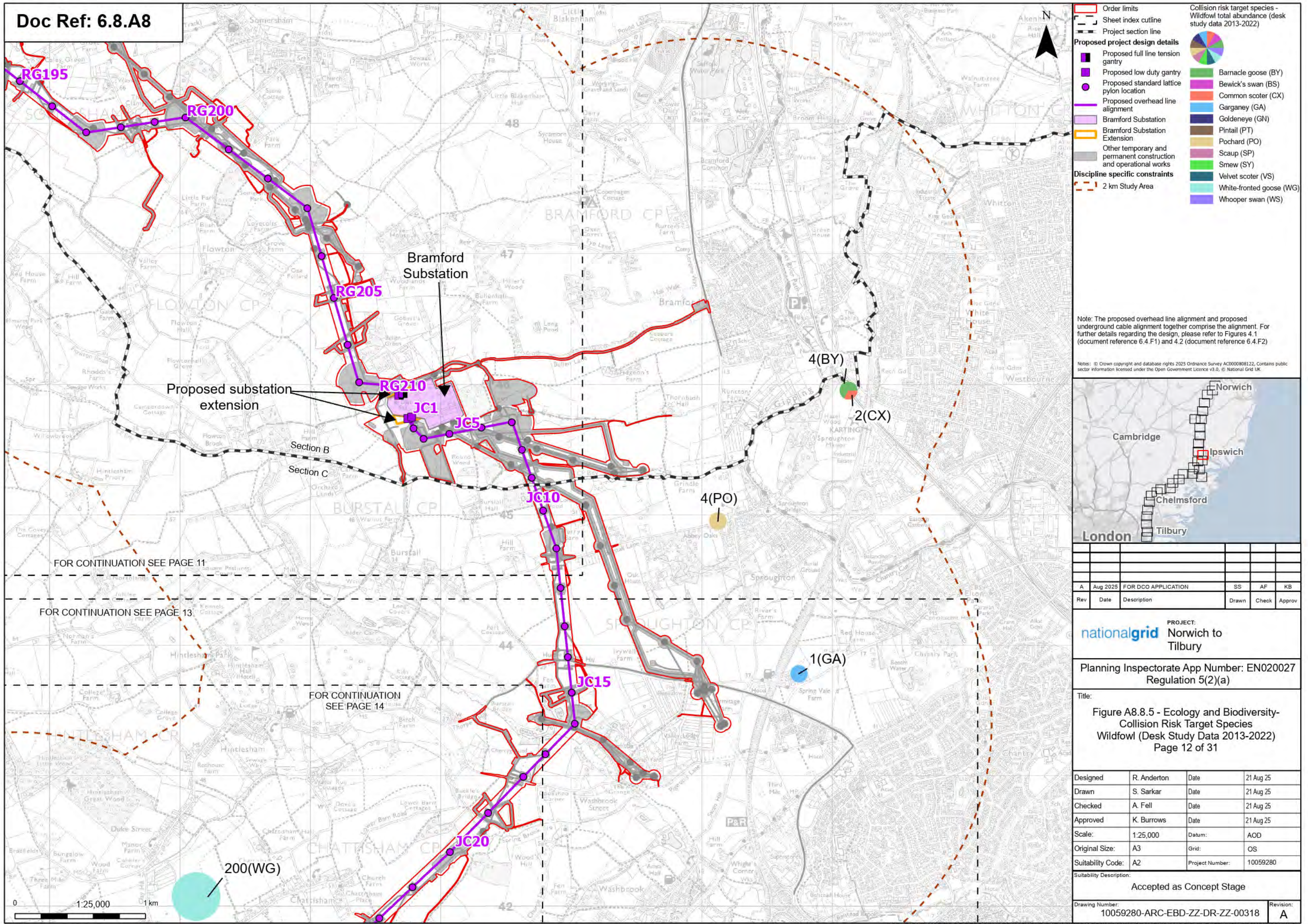
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Wildfowl (Desk Study Data 2013-2022)
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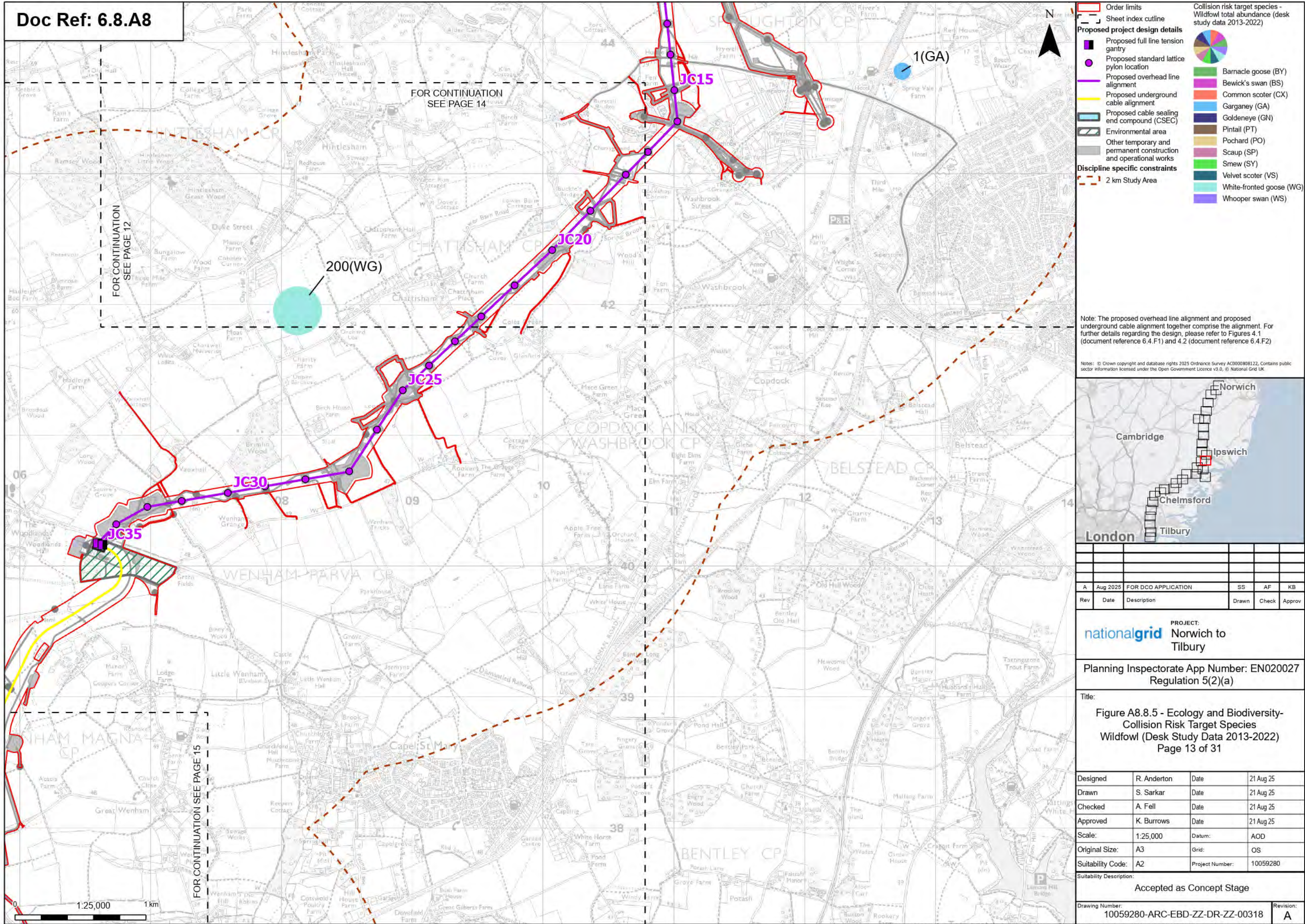
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Checked	A. Fell	Date	21 Aug 25
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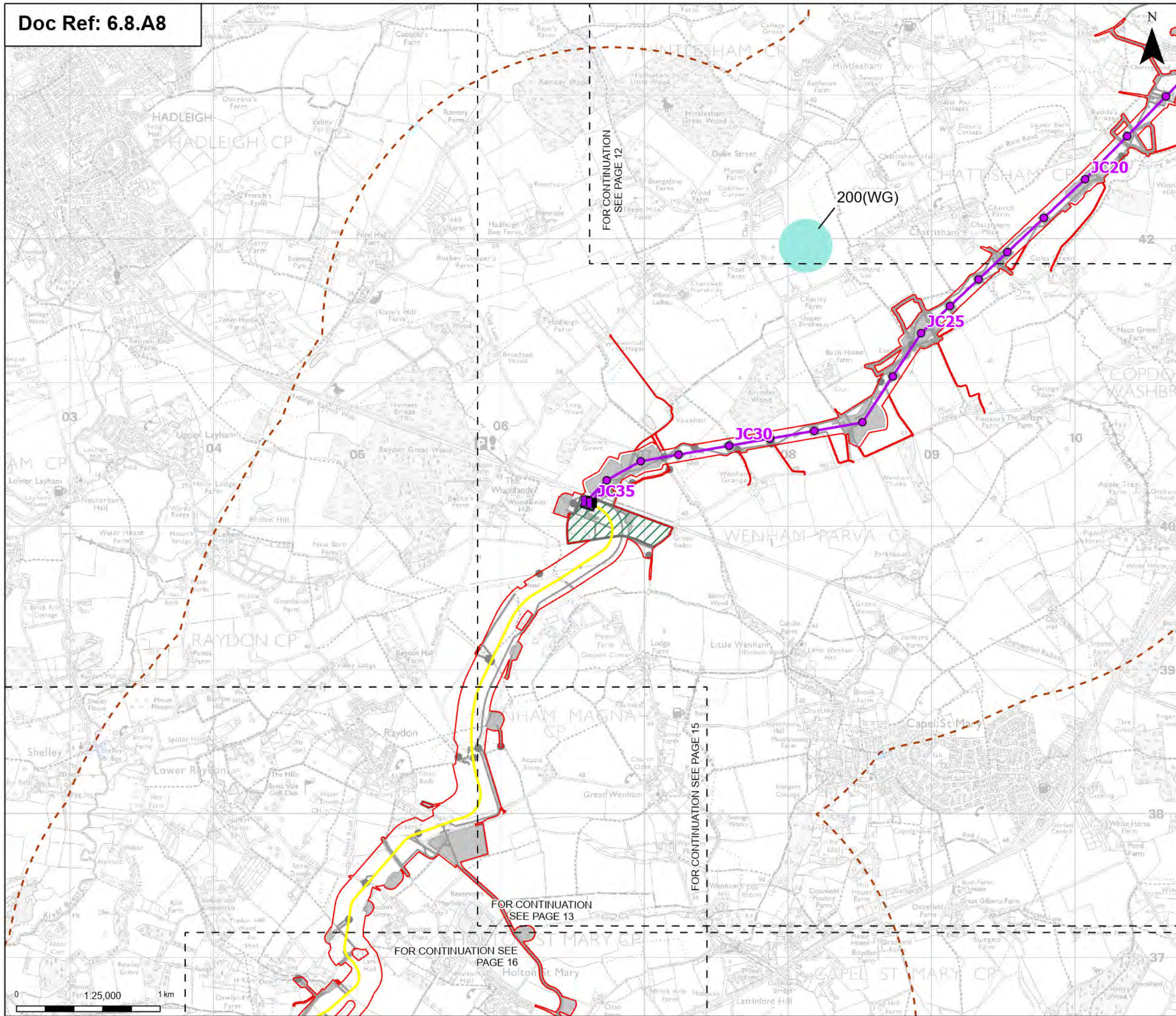
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision:
A







Order limits

Sheet index cutline

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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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PROJECT:
nationalgrid Norwich to
Tilbury

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

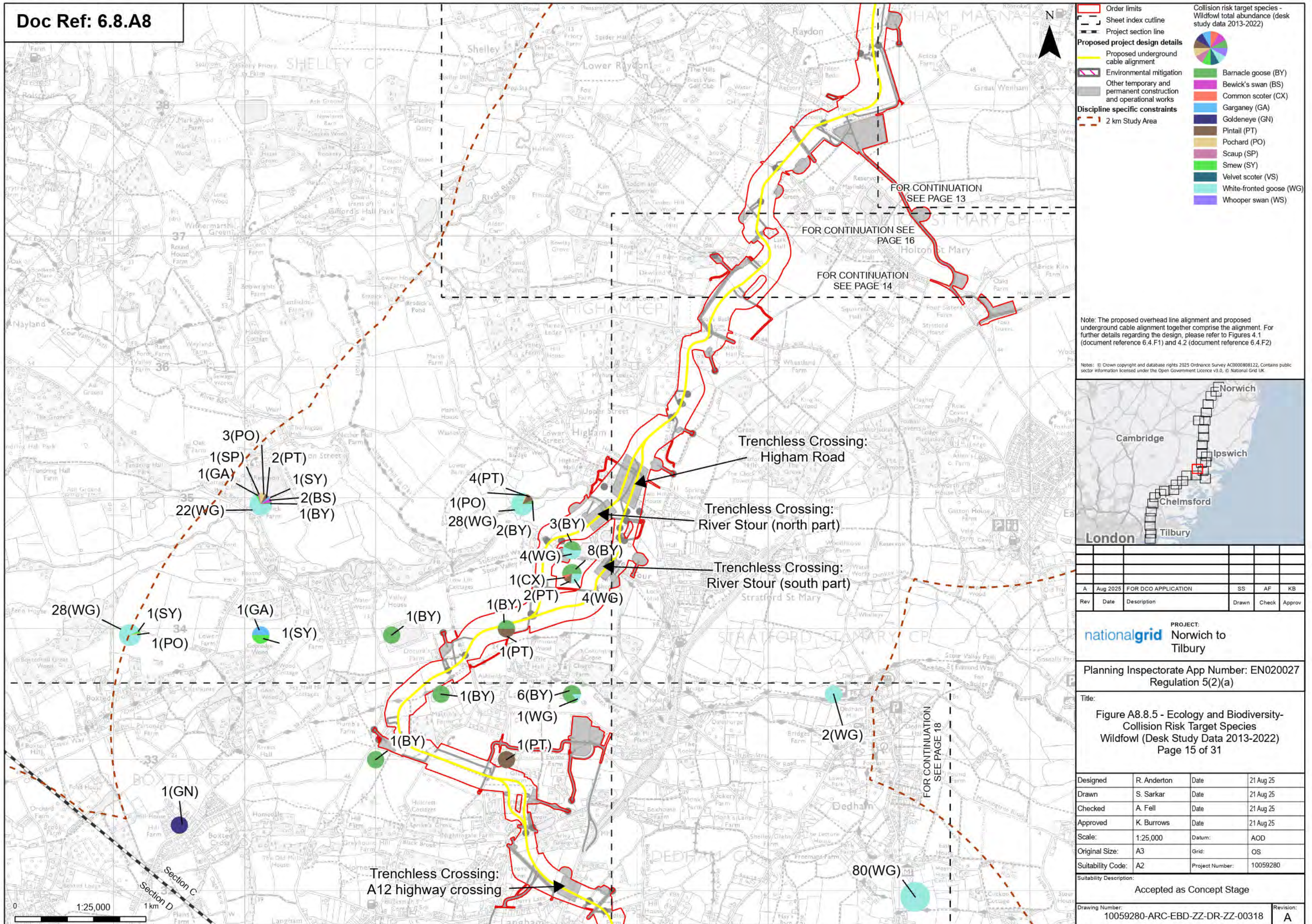
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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	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

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

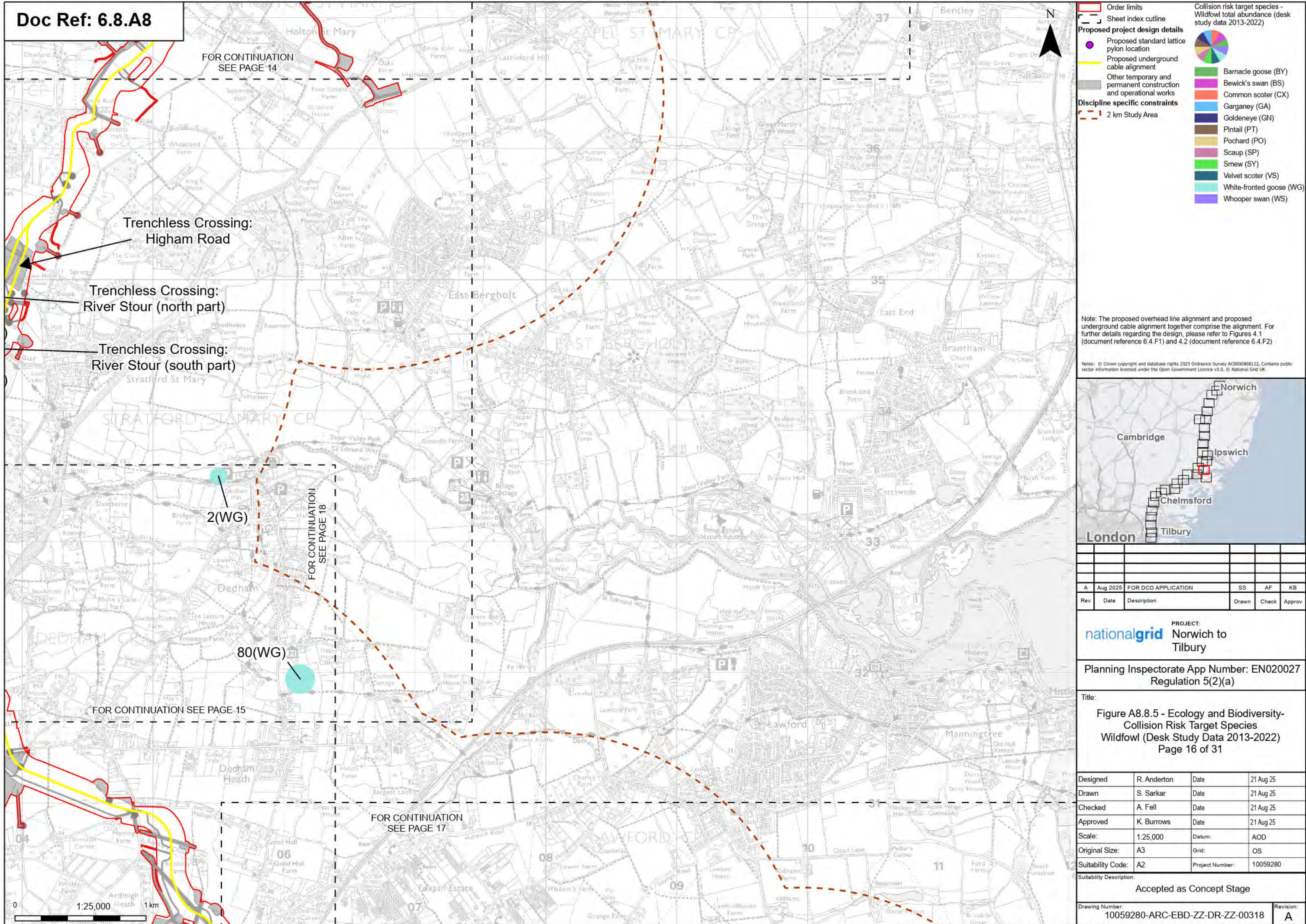
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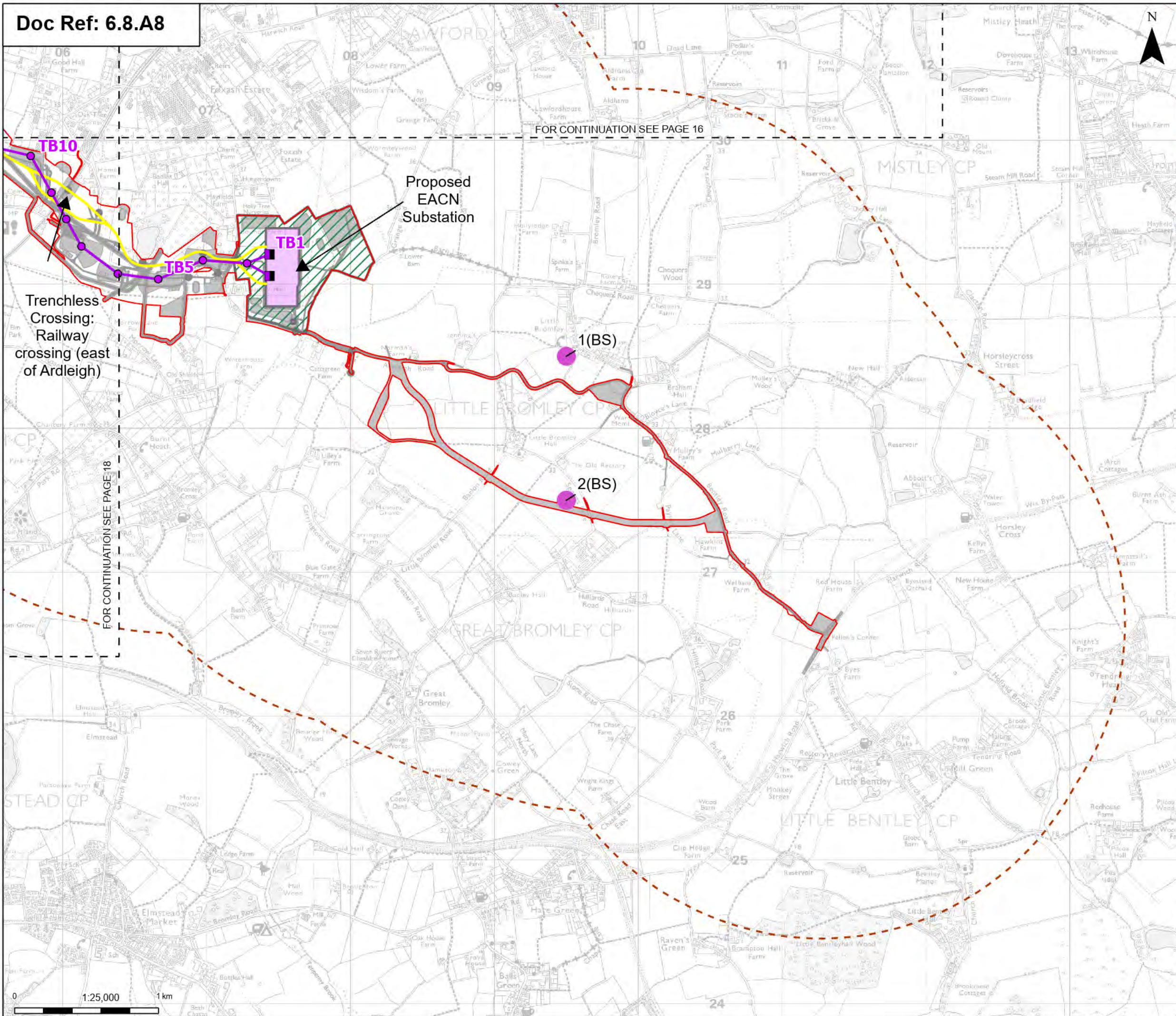
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision:	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 DNO Substation
- Proposed East Anglia Connection Node Substation (EACN)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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**

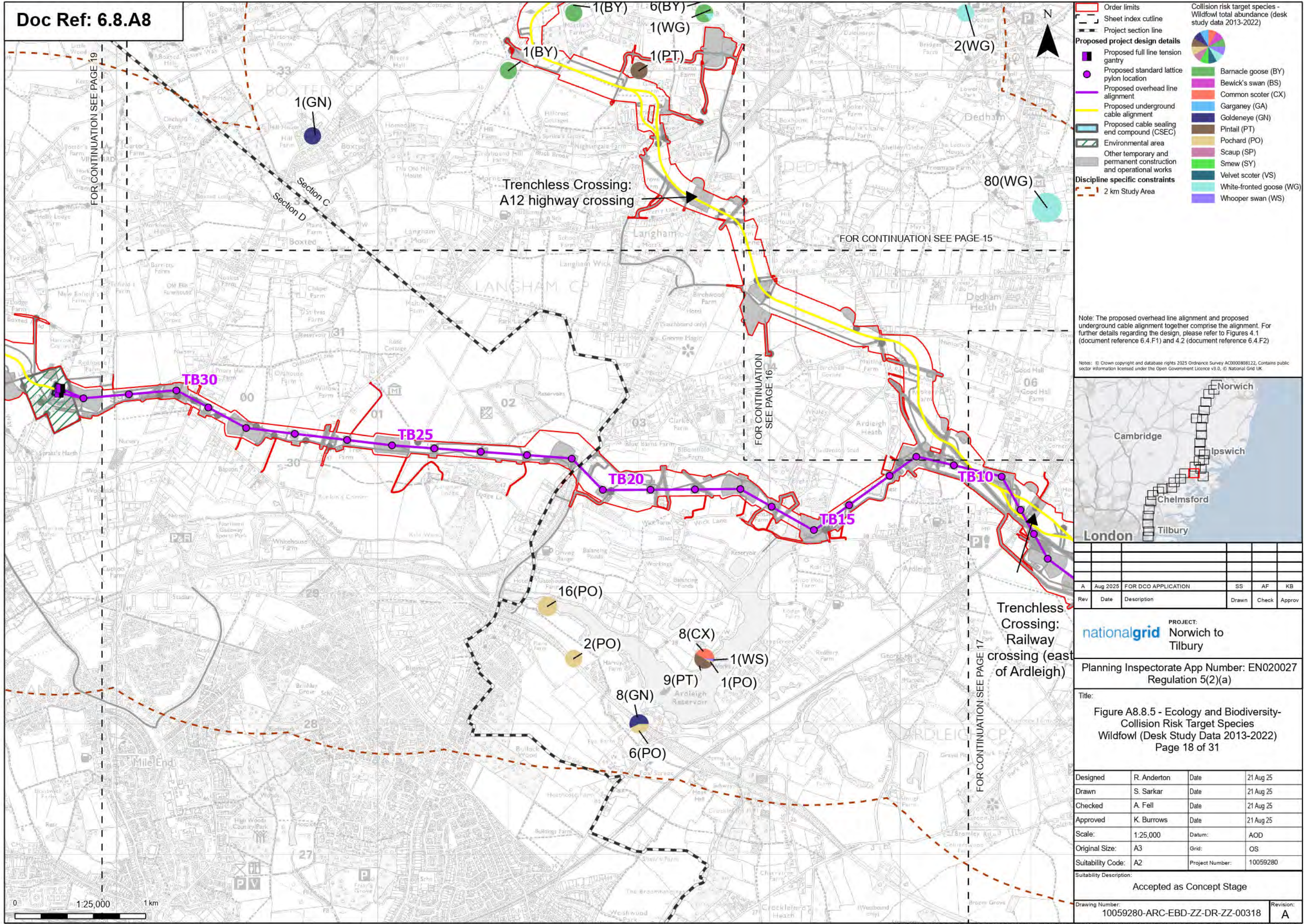
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

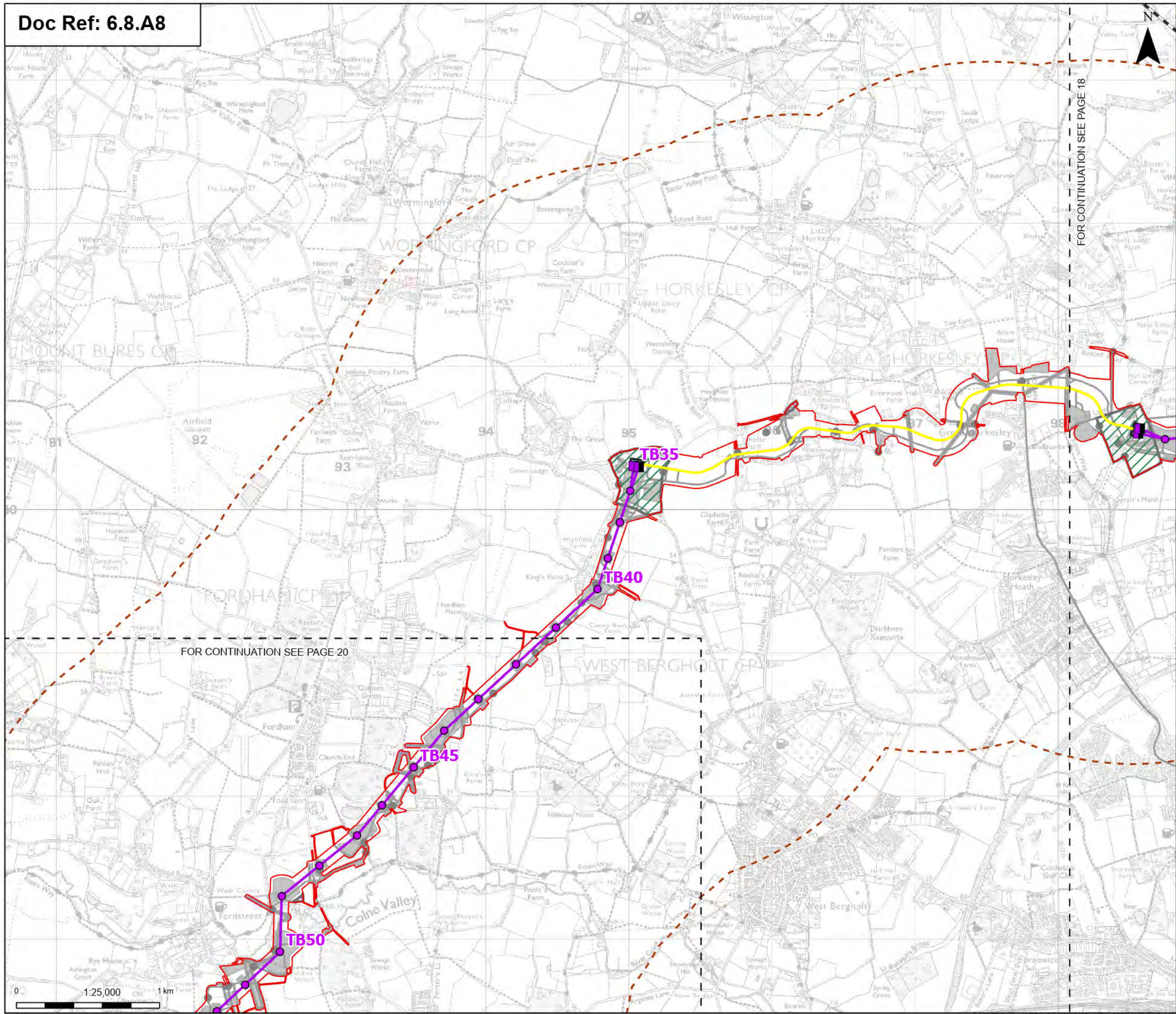
Title:
Figure A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
Page 17 of 31

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

Drawing Number: **10059280-ARC-EBD-ZZ-DR-ZZ-00318** Revision: **A**





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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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**

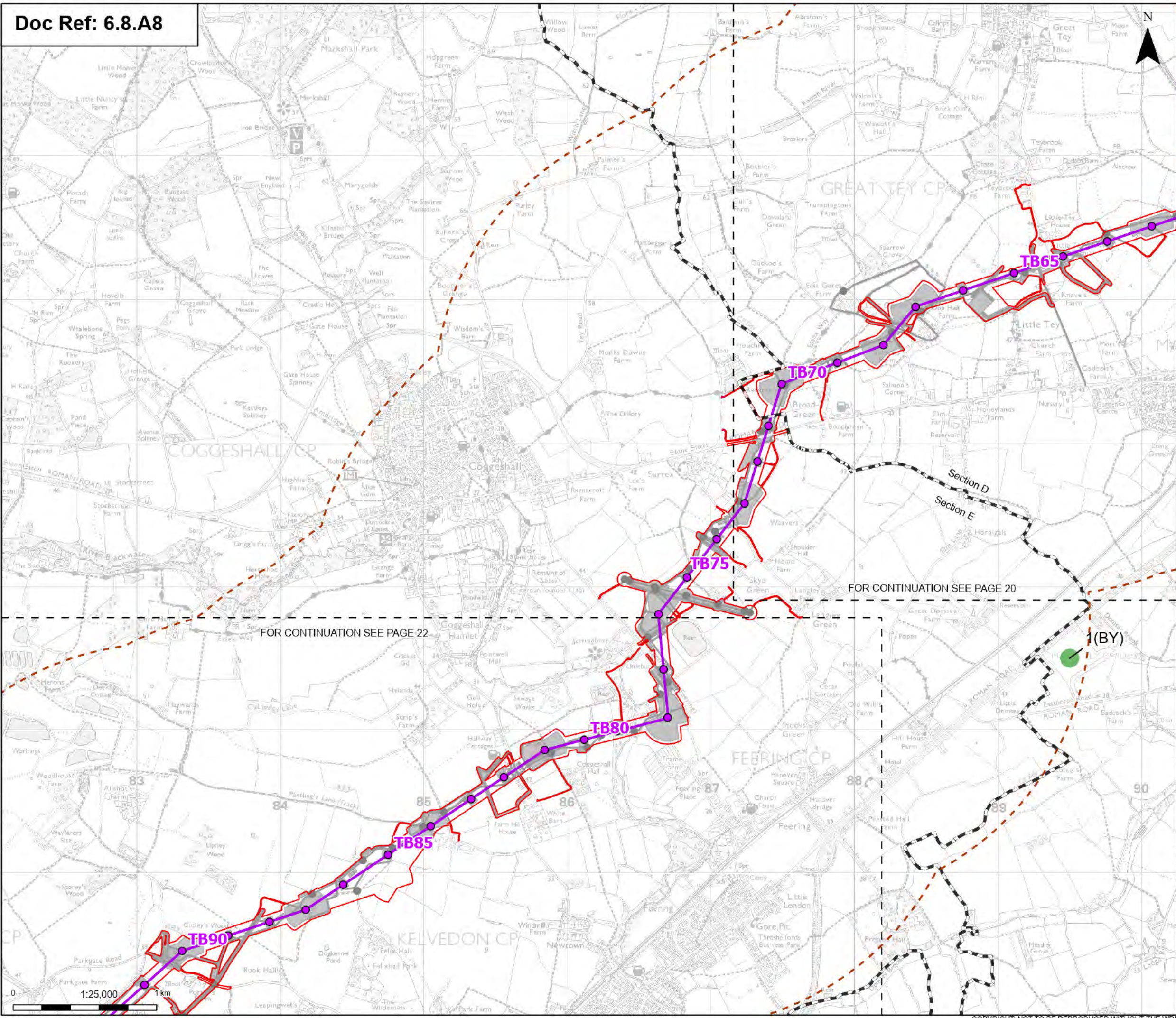
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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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-00318	Revision: 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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

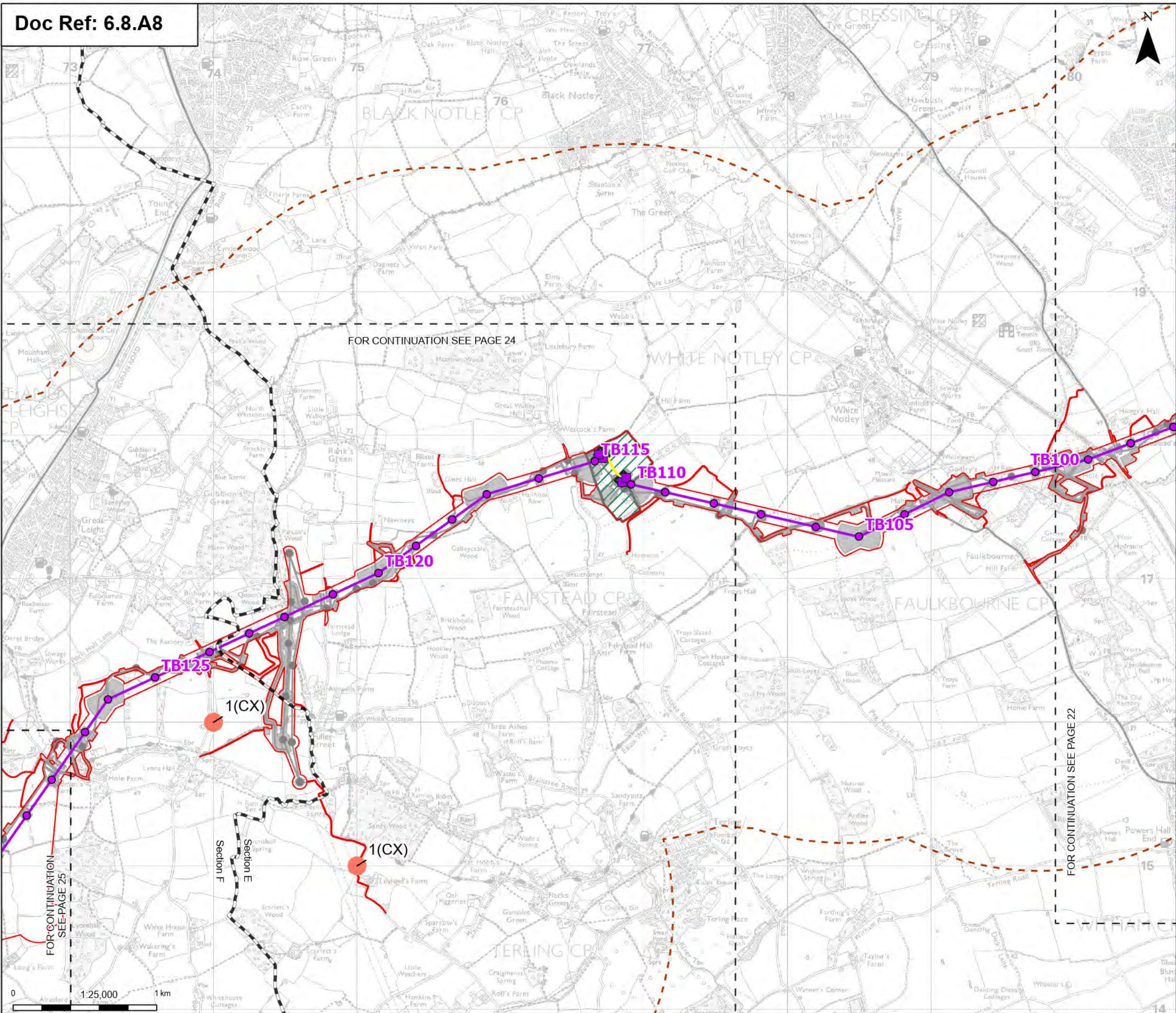
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (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

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00318
Revision:
A



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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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:
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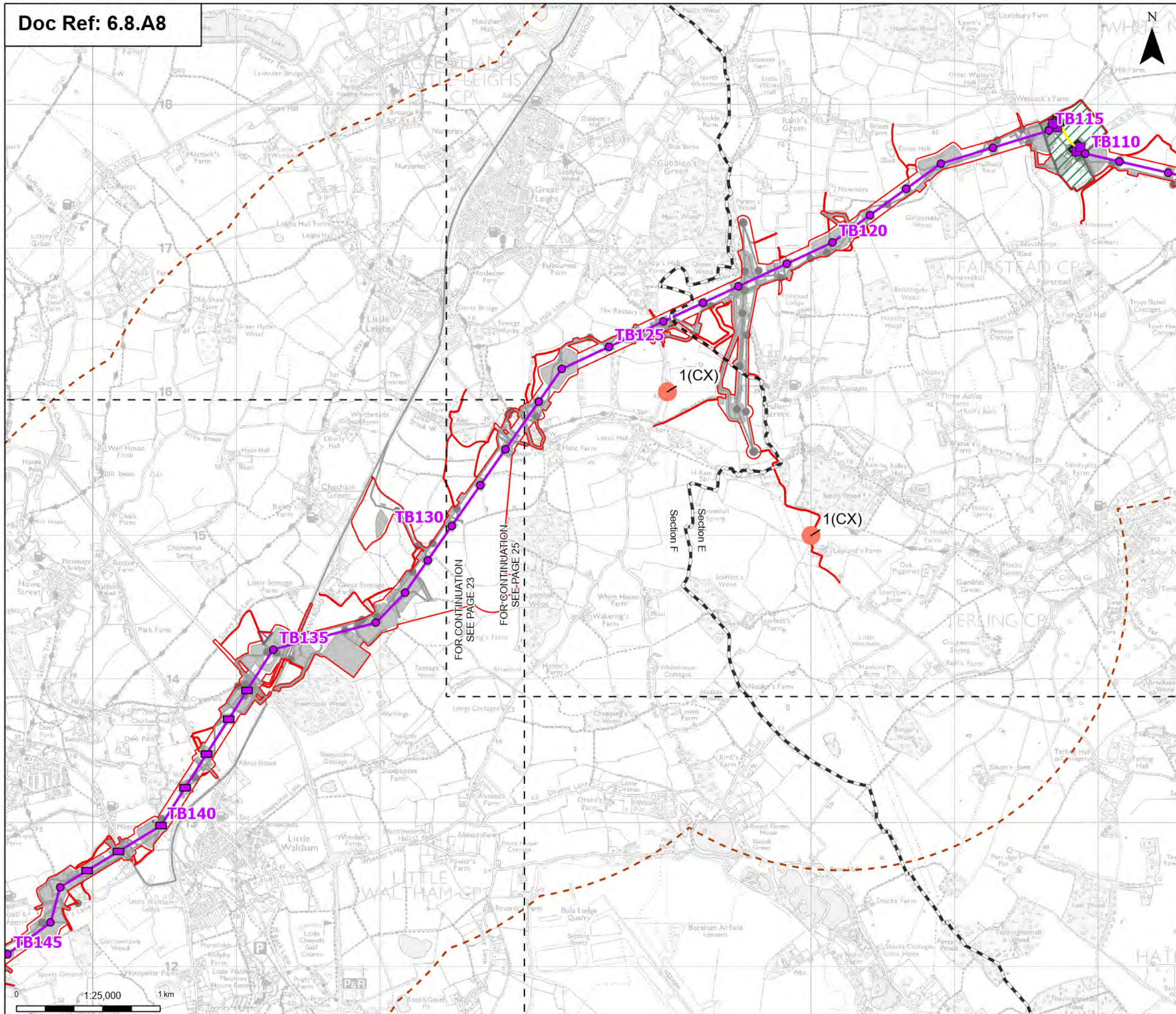
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (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
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-00318
Revision:
A



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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

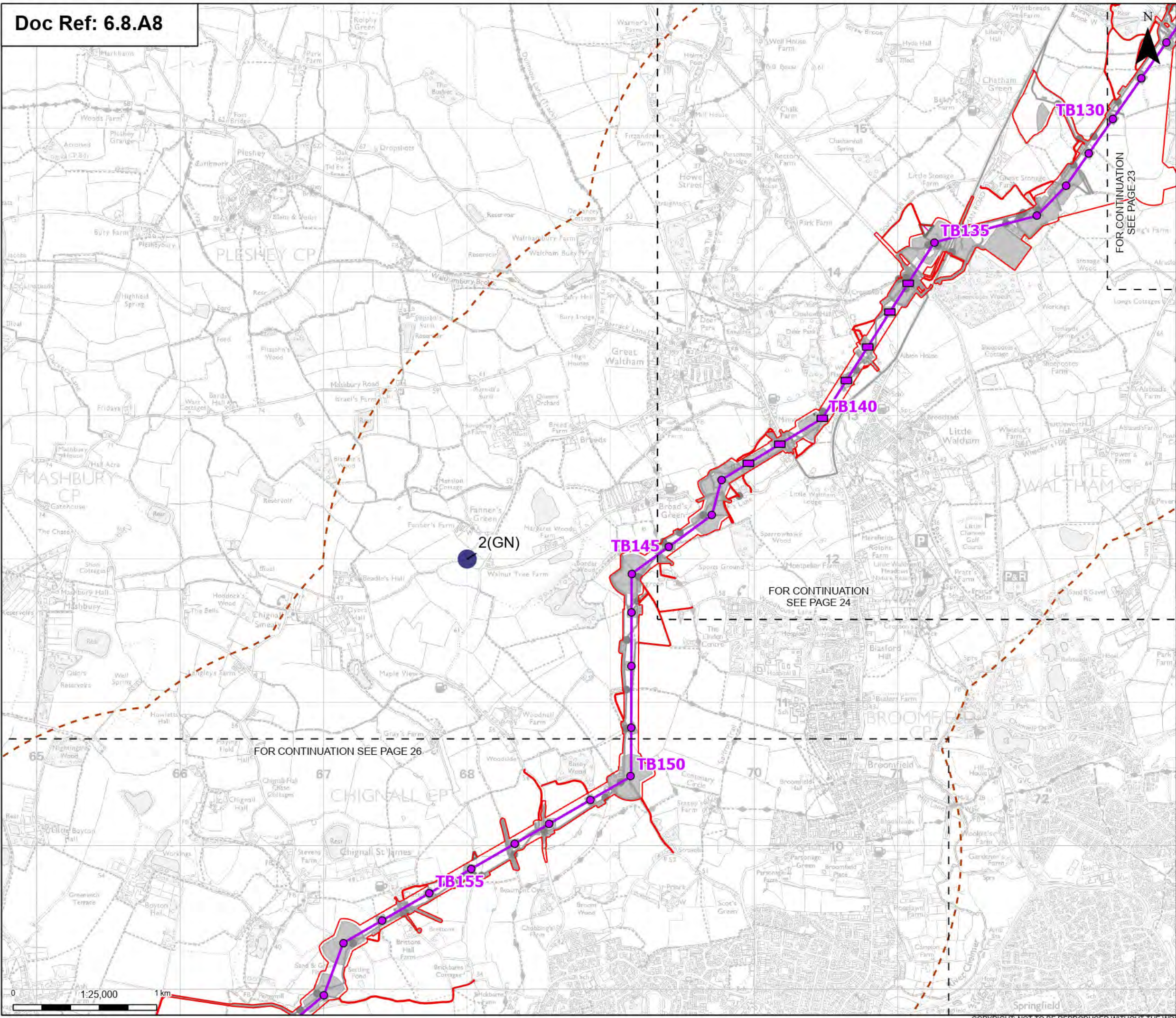
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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Scale:	1:25,000	Datum:	AOD
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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-00318
Revision:
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Sheet index outline

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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

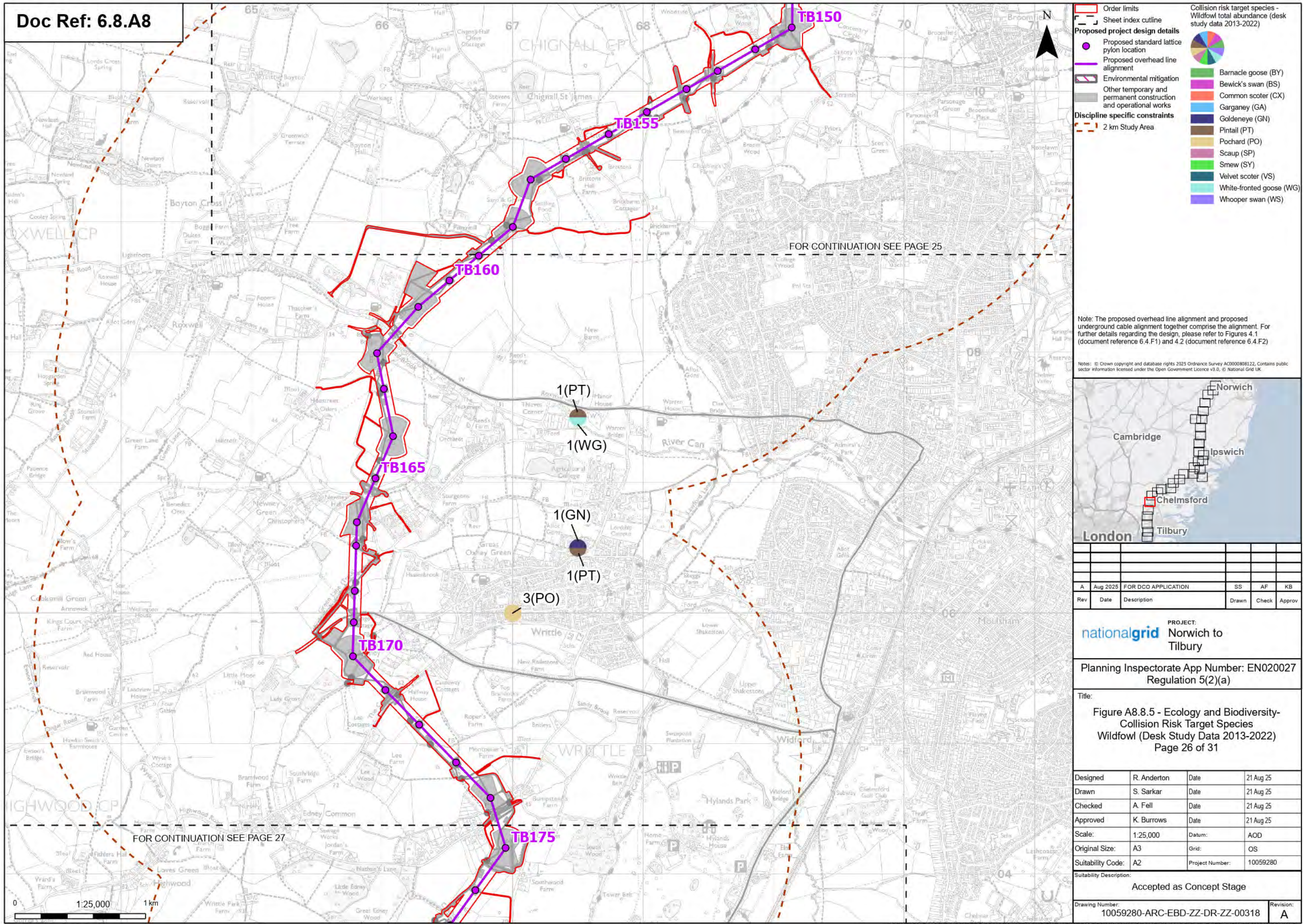
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Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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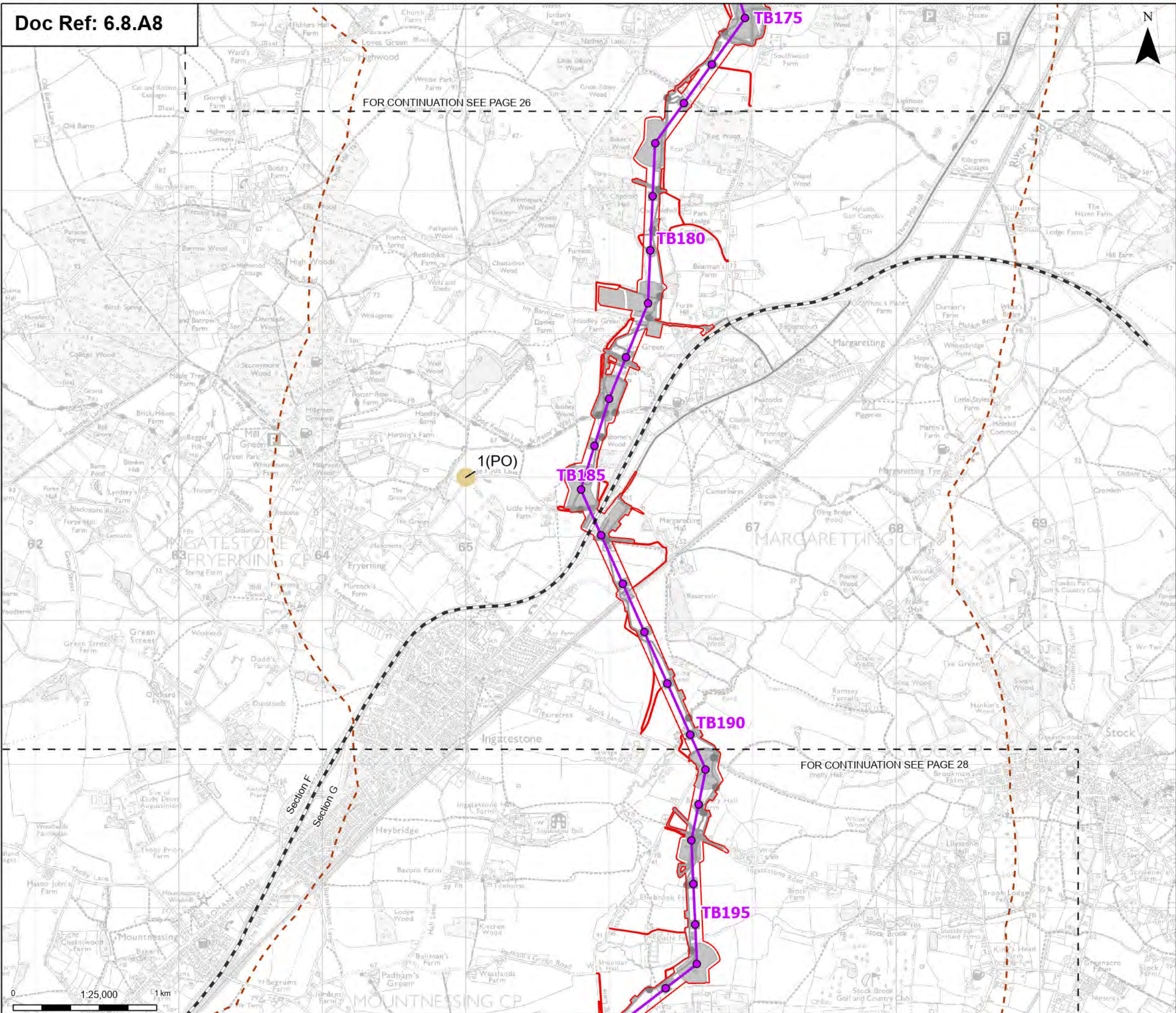
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Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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10059280-ARC-EBD-ZZ-DR-ZZ-00318

Revision:
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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

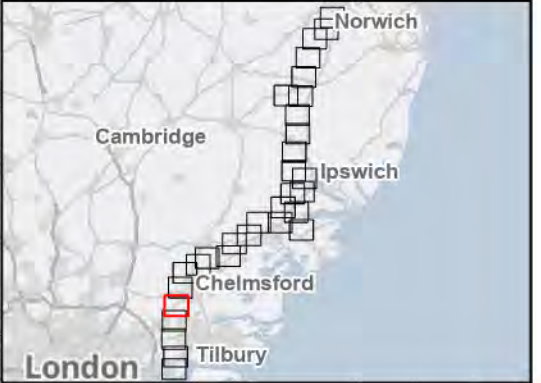
Discipline specific constraints
2 km Study Area

Collision risk target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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

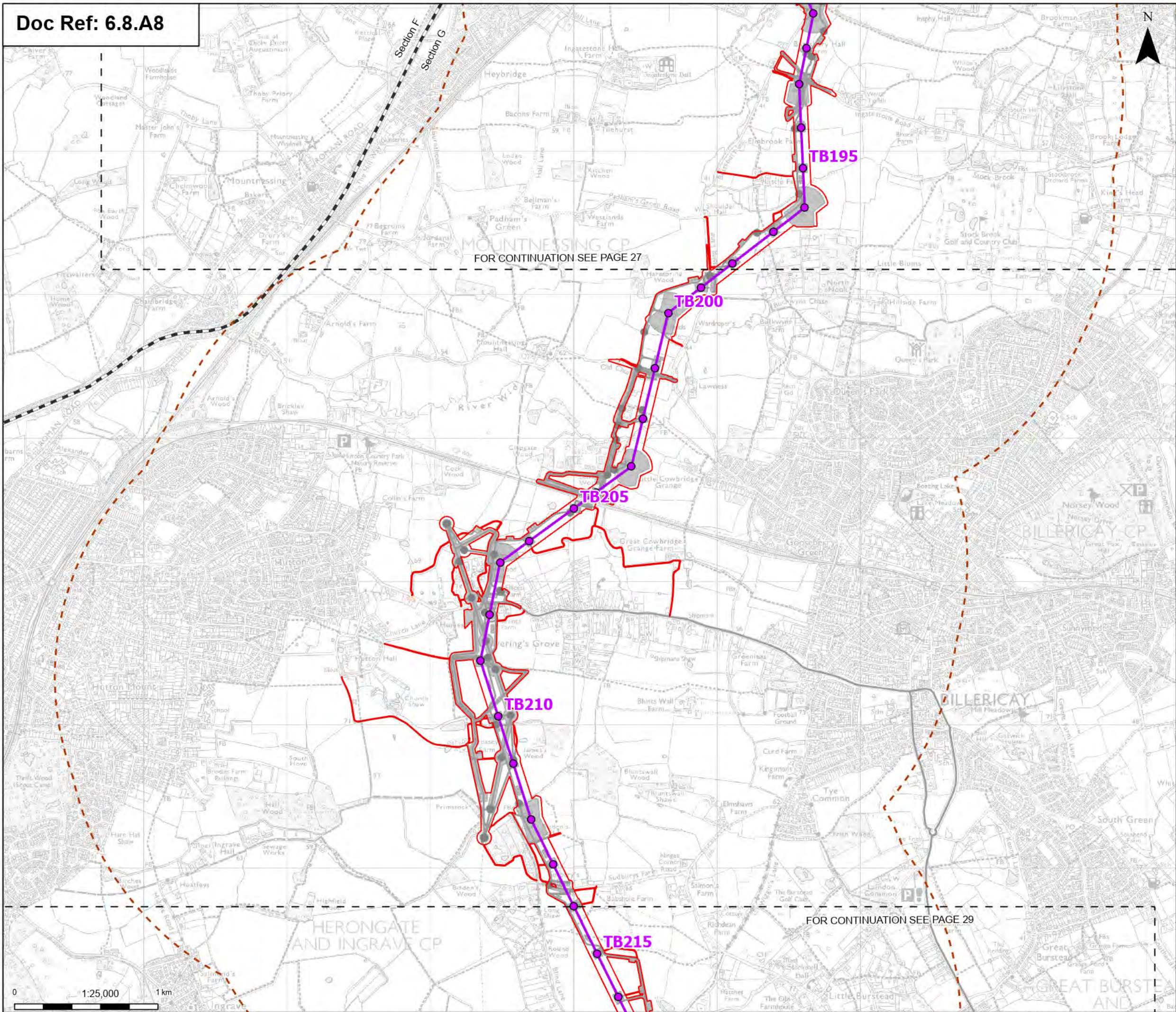
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Regulation 5(2)(a)

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Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
Page 27 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

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00318	Revision: 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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochard (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
Figure A8.8.5 - Ecology and Biodiversity-
Collision Risk Target Species
Wildfowl (Desk Study Data 2013-2022)
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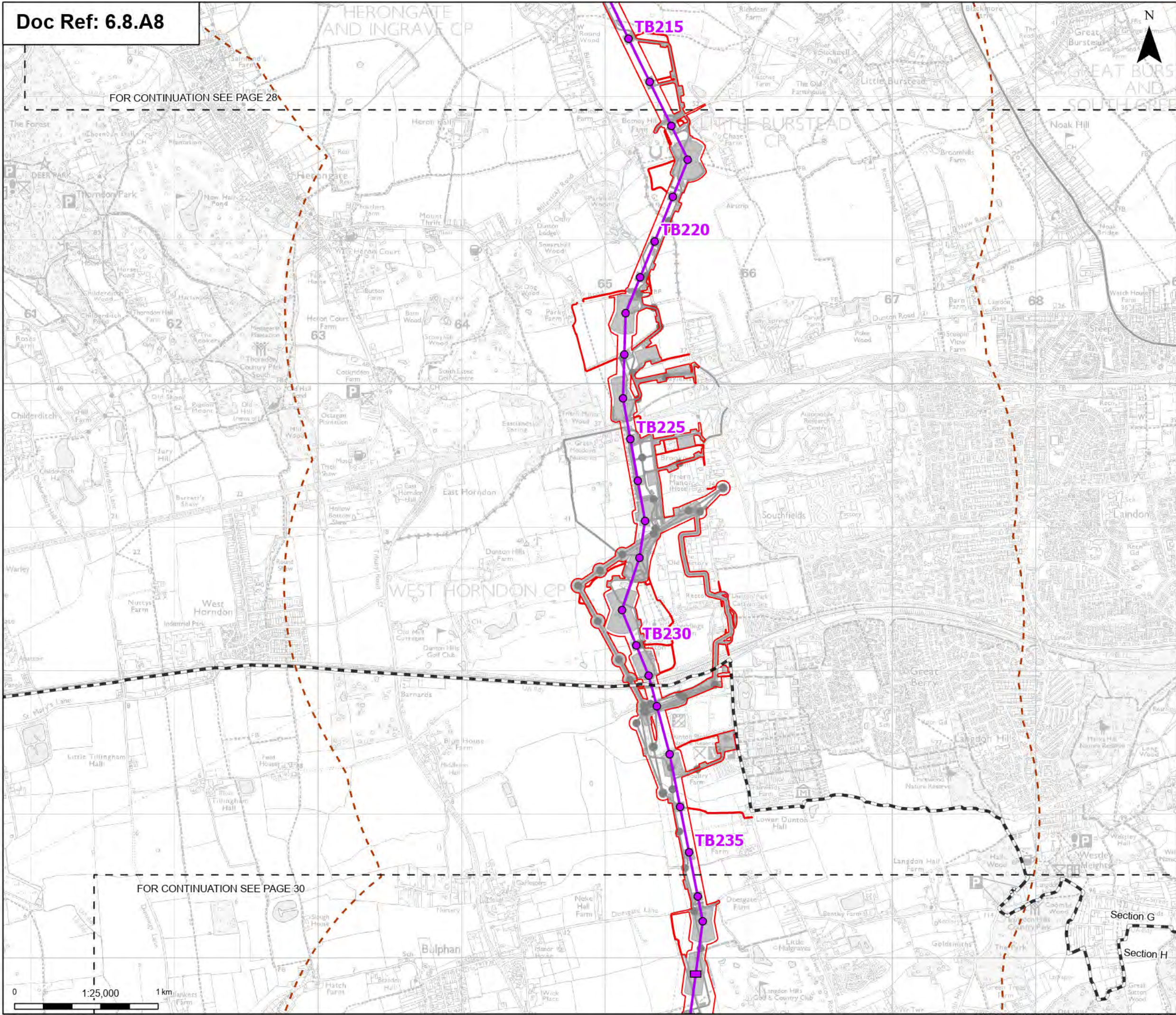
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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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 target species - Wildfowl total abundance (desk study data 2013-2022)

- Barnacle goose (BY)
- Bewick's swan (BS)
- Common scoter (CX)
- Garganey (GA)
- Goldeneye (GN)
- Pintail (PT)
- Pochard (PO)
- Scaup (SP)
- Smew (SY)
- Velvet scoter (VS)
- White-fronted goose (WG)
- Whooper swan (WS)

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)

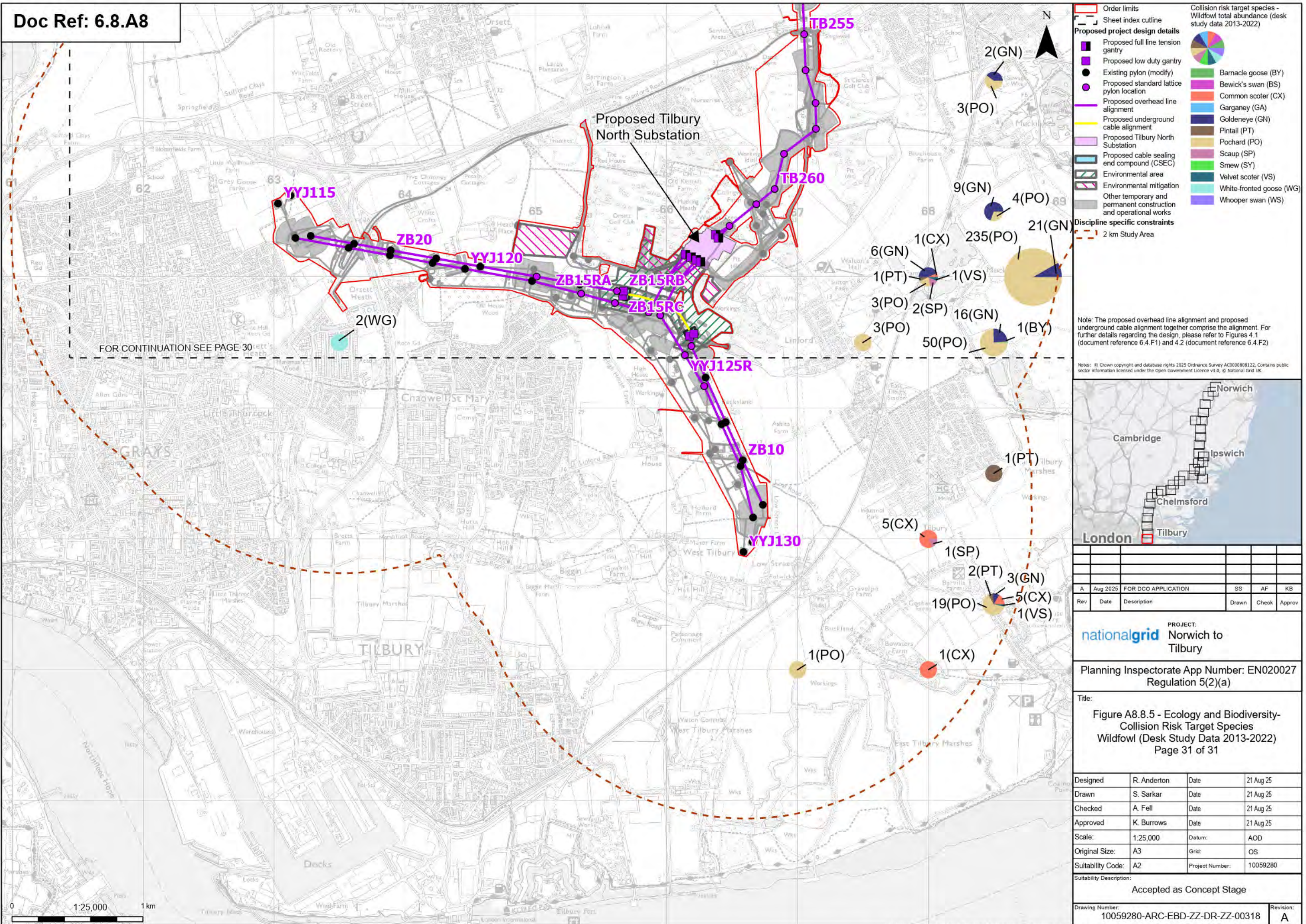
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Figure A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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-00318

Revision:
A



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 target species - Wildfowl total abundance (desk study data 2013-2022)

Barnacle goose (BY)

Bewick's swan (BS)

Common scoter (CX)

Garganey (GA)

Goldeneye (GN)

Pintail (PT)

Pochar (PO)

Scaup (SP)

Smew (SY)

Velvet scoter (VS)

White-fronted goose (WG)

Whooper swan (WS)

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

Chelmsford

Ipswich

Norwich

Tilbury

Cambridge

Norwich

Ipswich

Chelmsford

Tilbury

Rev	Date	Description	Drawn	Check	Approv
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 A8.8.5 - Ecology and Biodiversity- Collision Risk Target Species Wildfowl (Desk Study Data 2013-2022)

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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:

Accepted as Concept Stage

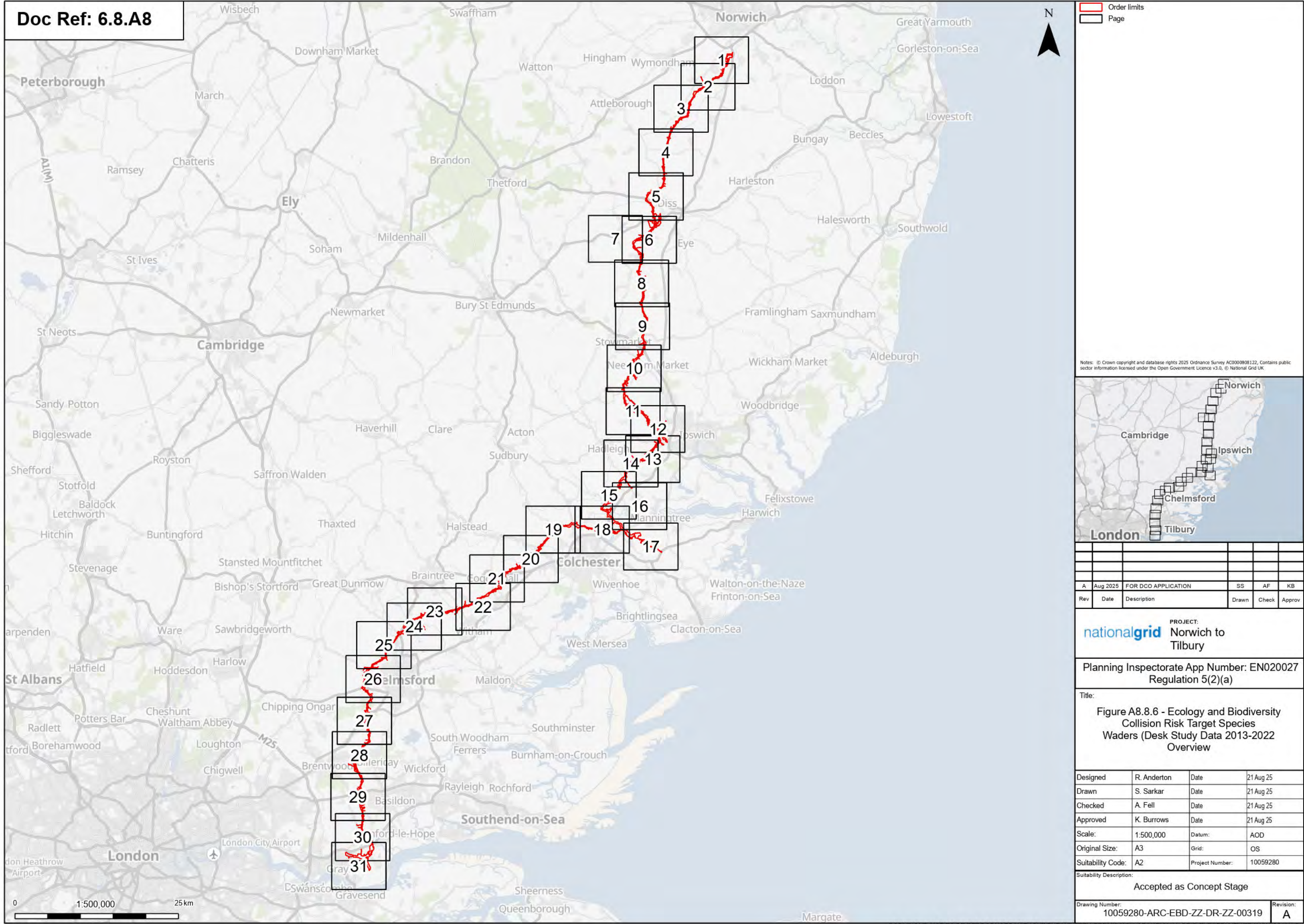
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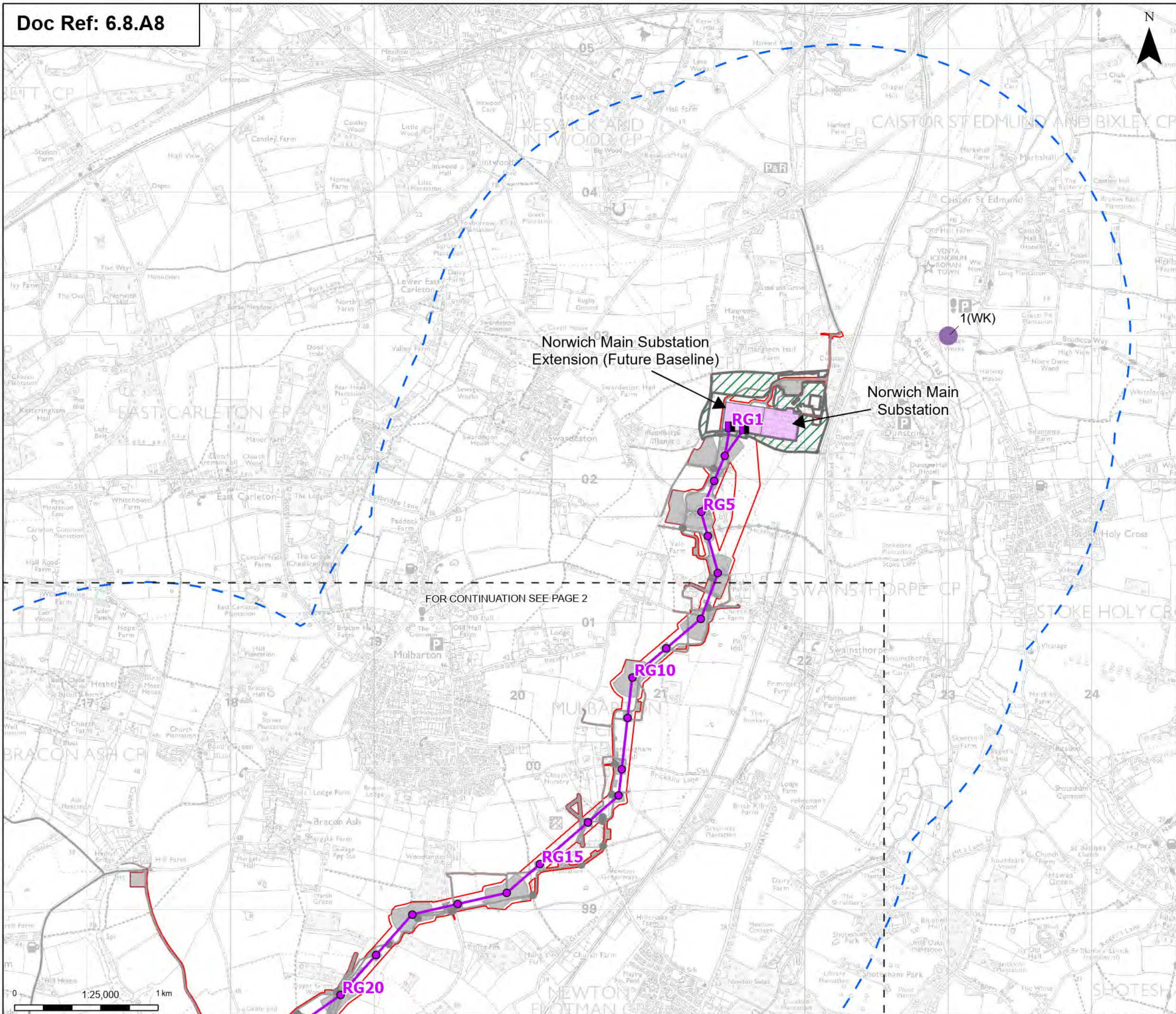
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Revision:

A

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Order limits

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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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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Revision History				
Rev	Date	Description	Drawn	Check
A	Aug 2025	FOR DCO APPLICATION	SS	AF
Rev	Date	Description	Drawn	Check

PROJECT: **Norwich to Tilbury**

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

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 1 of 31**

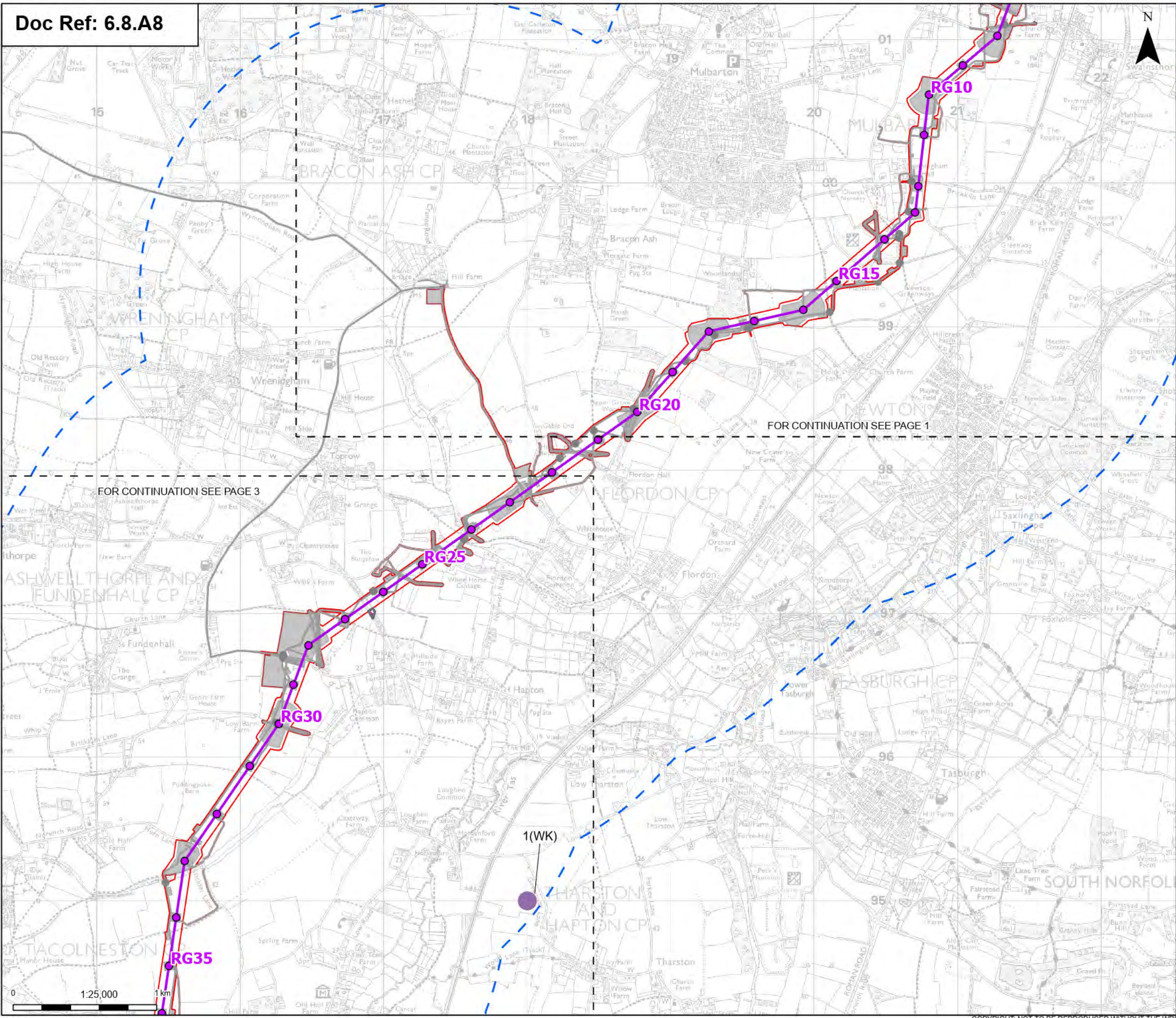
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319

Revision:
A

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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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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:
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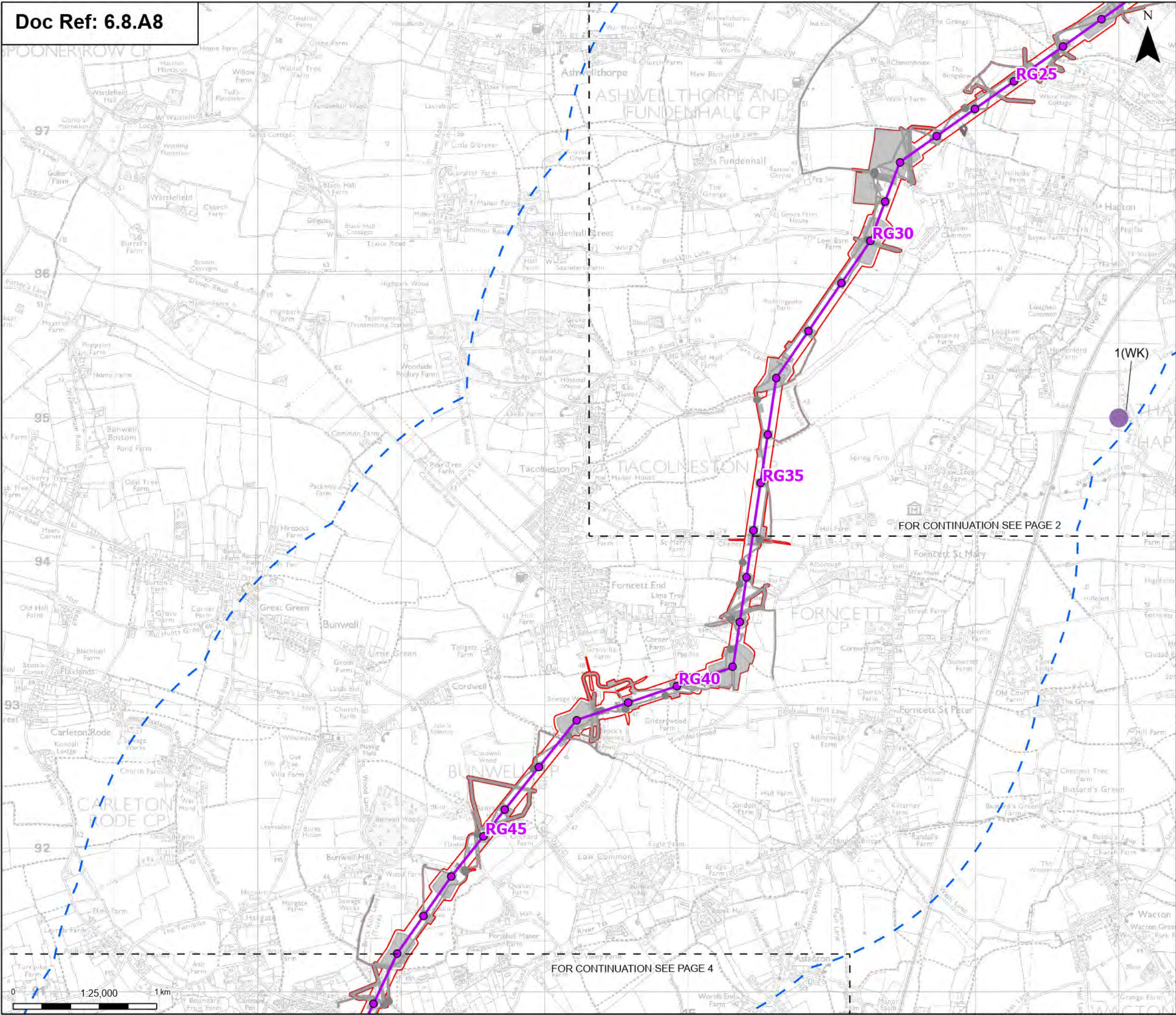
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
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Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

PROJECT: **Norwich to Tilbury**

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

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 3 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

Drawing Number: **10059280-ARC-EBD-ZZ-DR-ZZ-00319** Revision: **A**

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FOR CONTINUATION SEE PAGE 3

FOR CONTINUATION SEE PAGE 5

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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

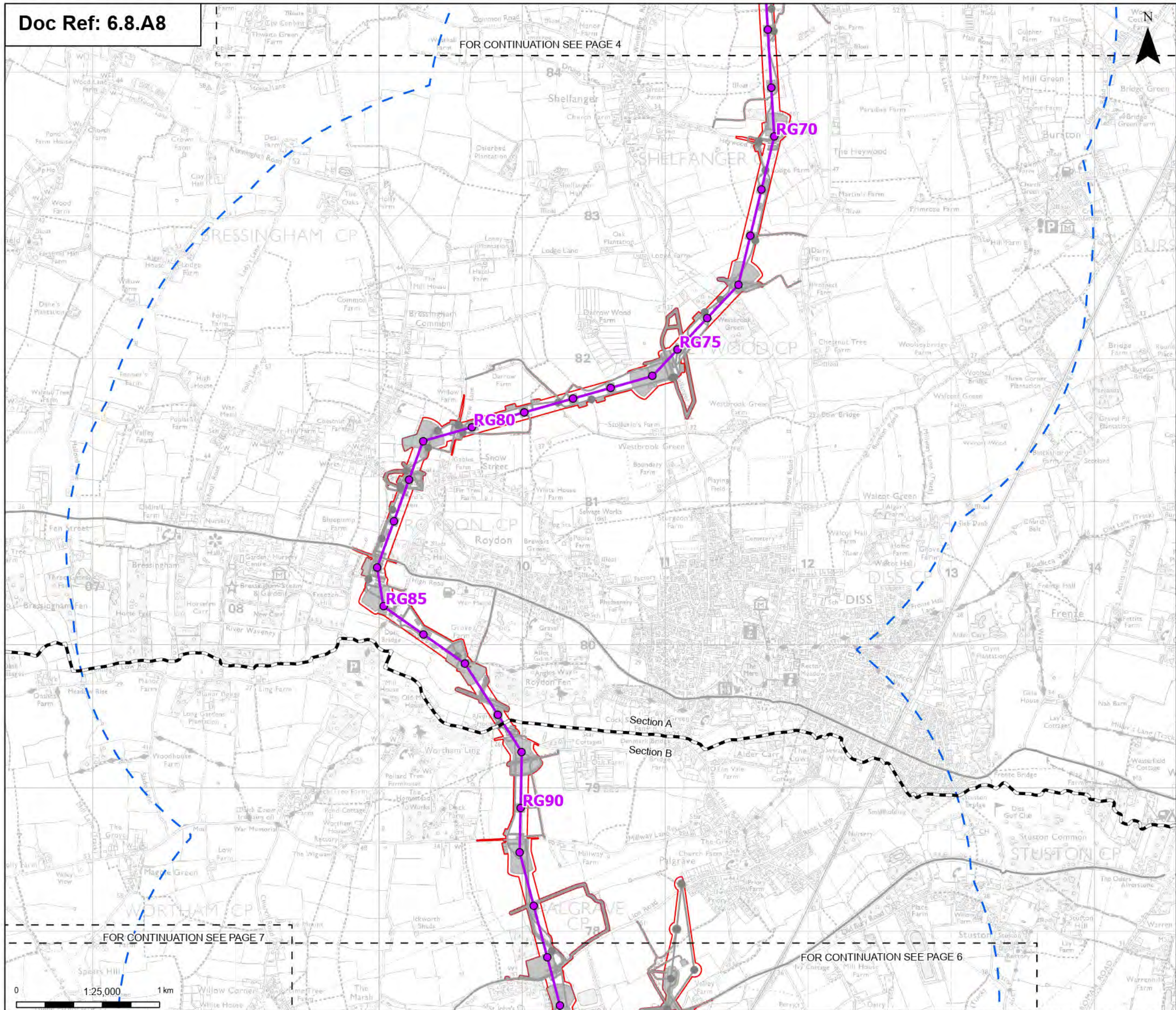
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 4 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

Drawing Number:	Revision:
10059280-ARC-EBD-ZZ-DR-ZZ-00319	A



Order limits

- Sheet index outline
- 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 target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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 A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 5 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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FOR CONTINUATION SEE PAGE 5

FOR CONTINUATION SEE PAGE 8
FOR CONTINUATION
SEE PAGE 7

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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
nationalgrid Norwich to Tilbury

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

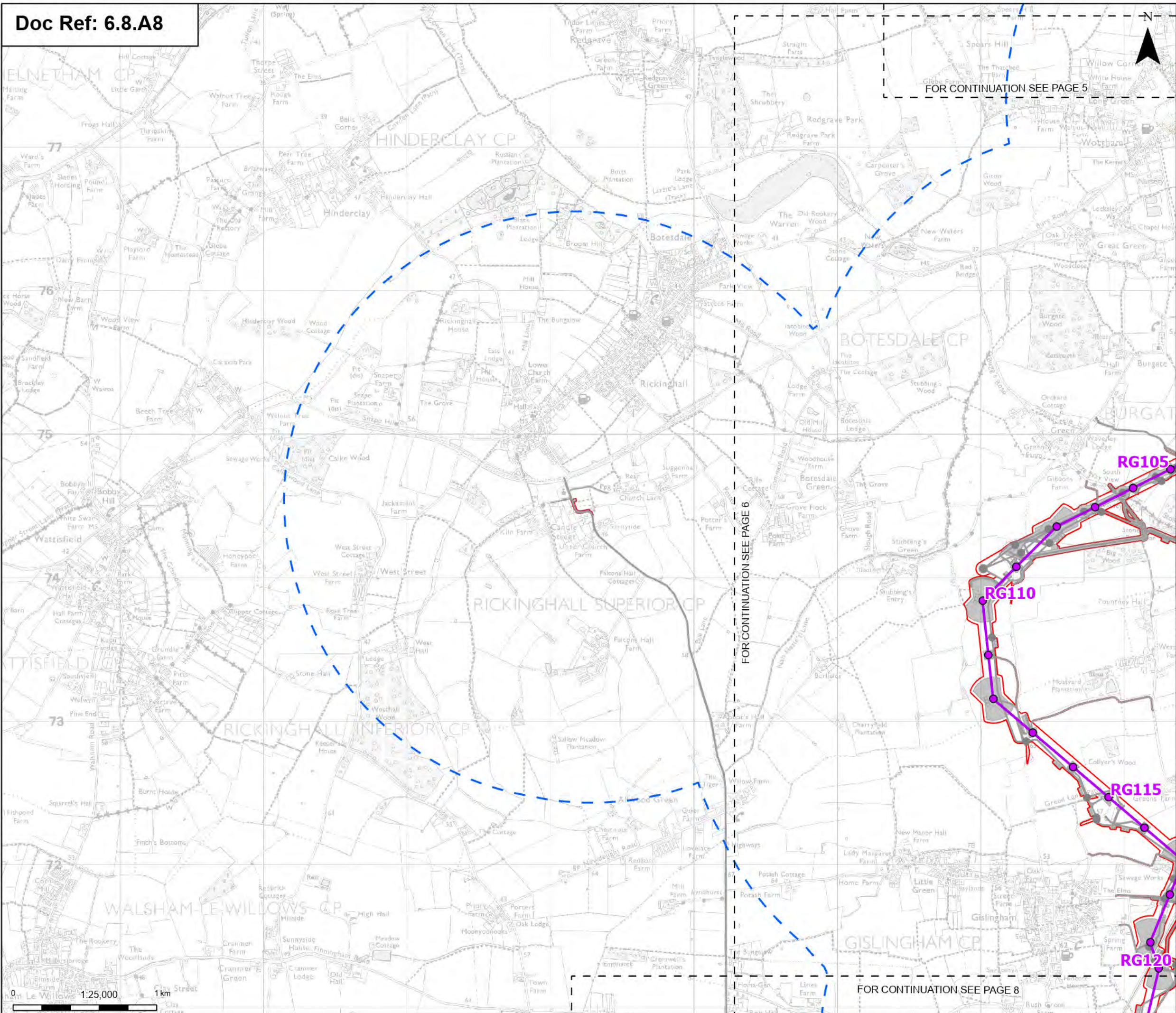
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Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 6 of 31

Designed	R. Anderton	Date	21 Aug 25
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

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319
Revision:
A

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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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

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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 A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 7 of 31

Designed	R. Anderton	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 Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: 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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

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Little ringed plover (LP)

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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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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 A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 8 of 31

Designed	R. Anderton	Date	21 Aug 25
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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 Description:
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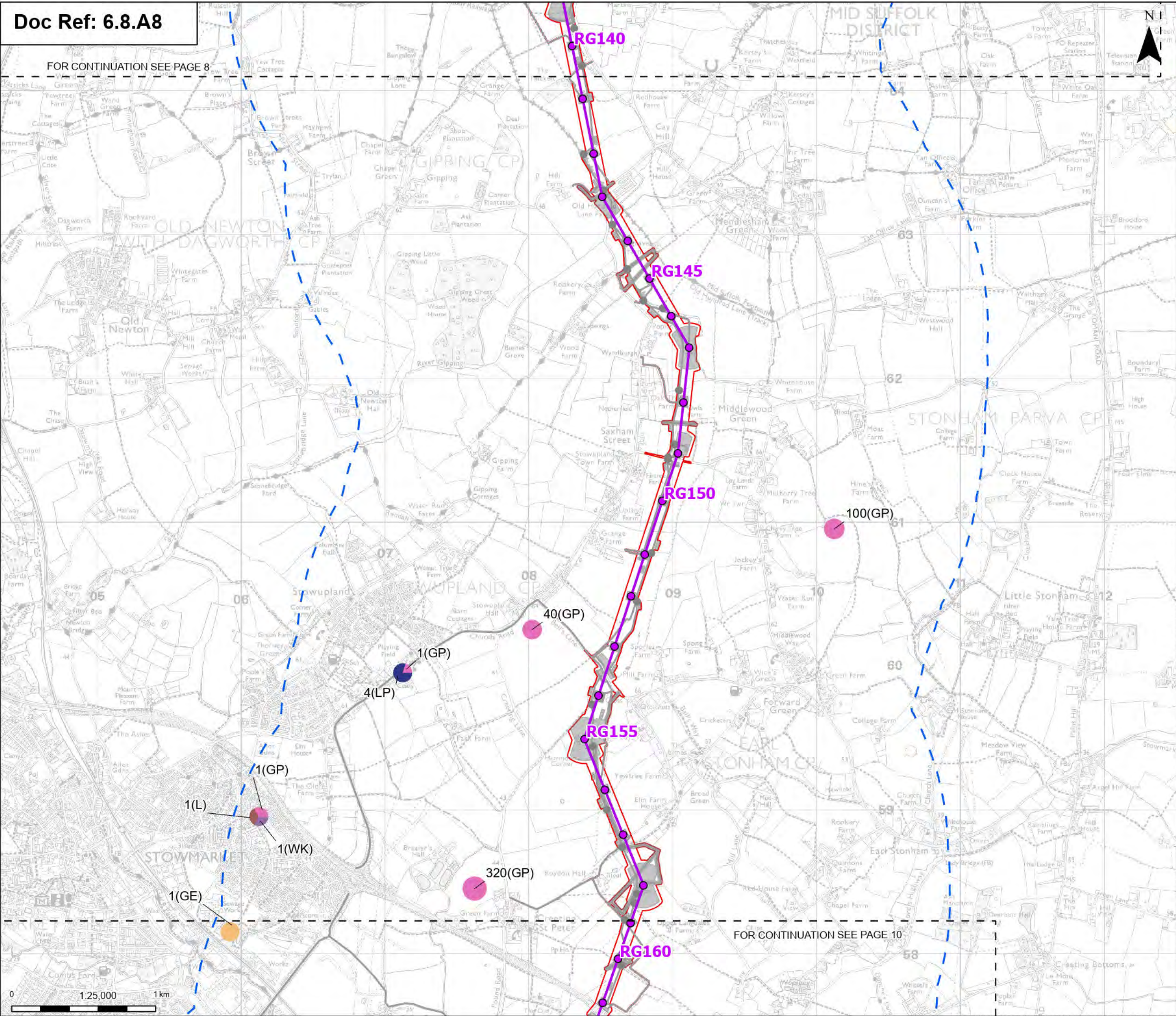
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Revision:
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08-17-25 21:08:45

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FOR CONTINUATION SEE PAGE 8



Order limits
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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

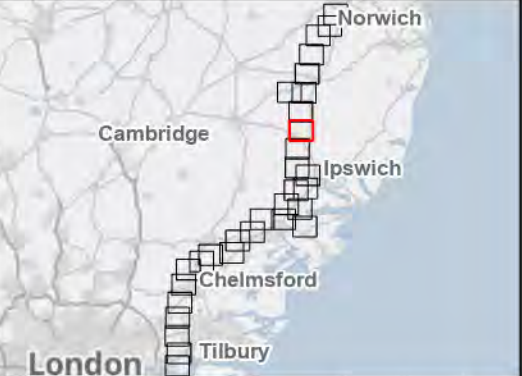
- 2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

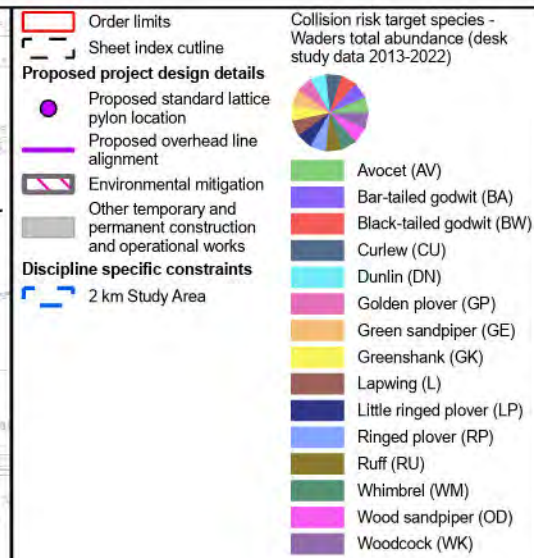
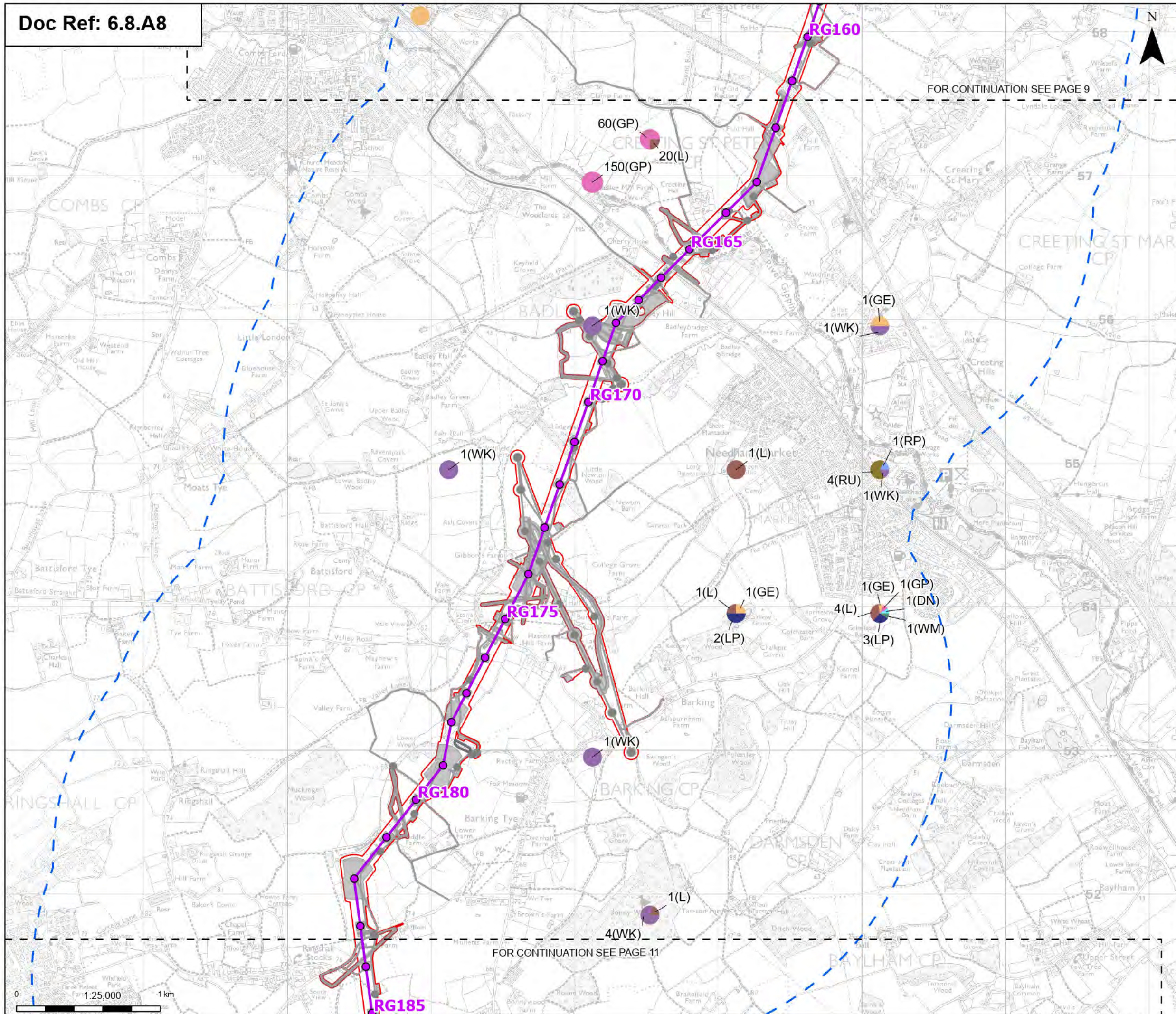
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 9 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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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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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

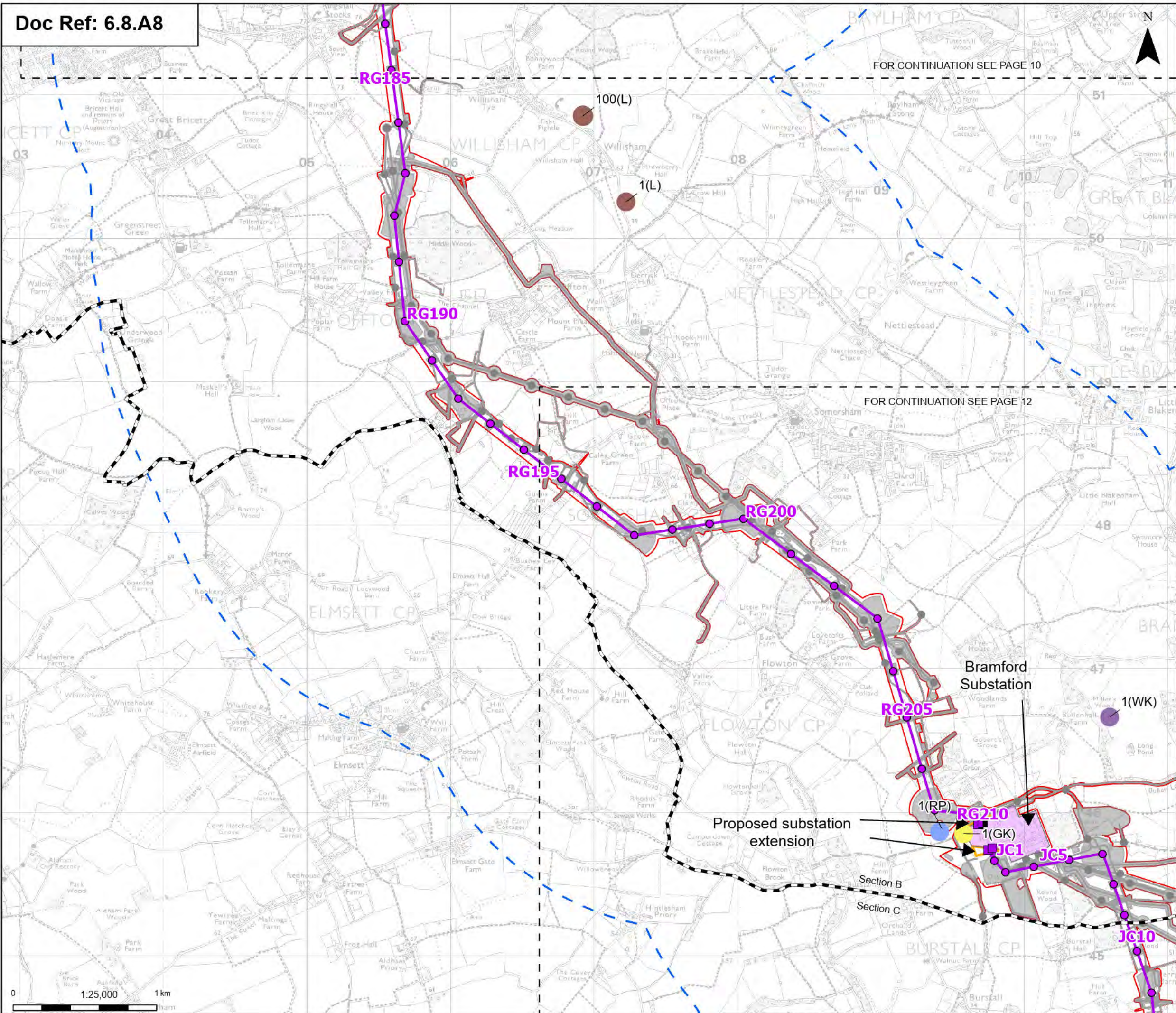
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 10 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

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319
Revision: A



Order limits

Sheet index outline

Project section line

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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

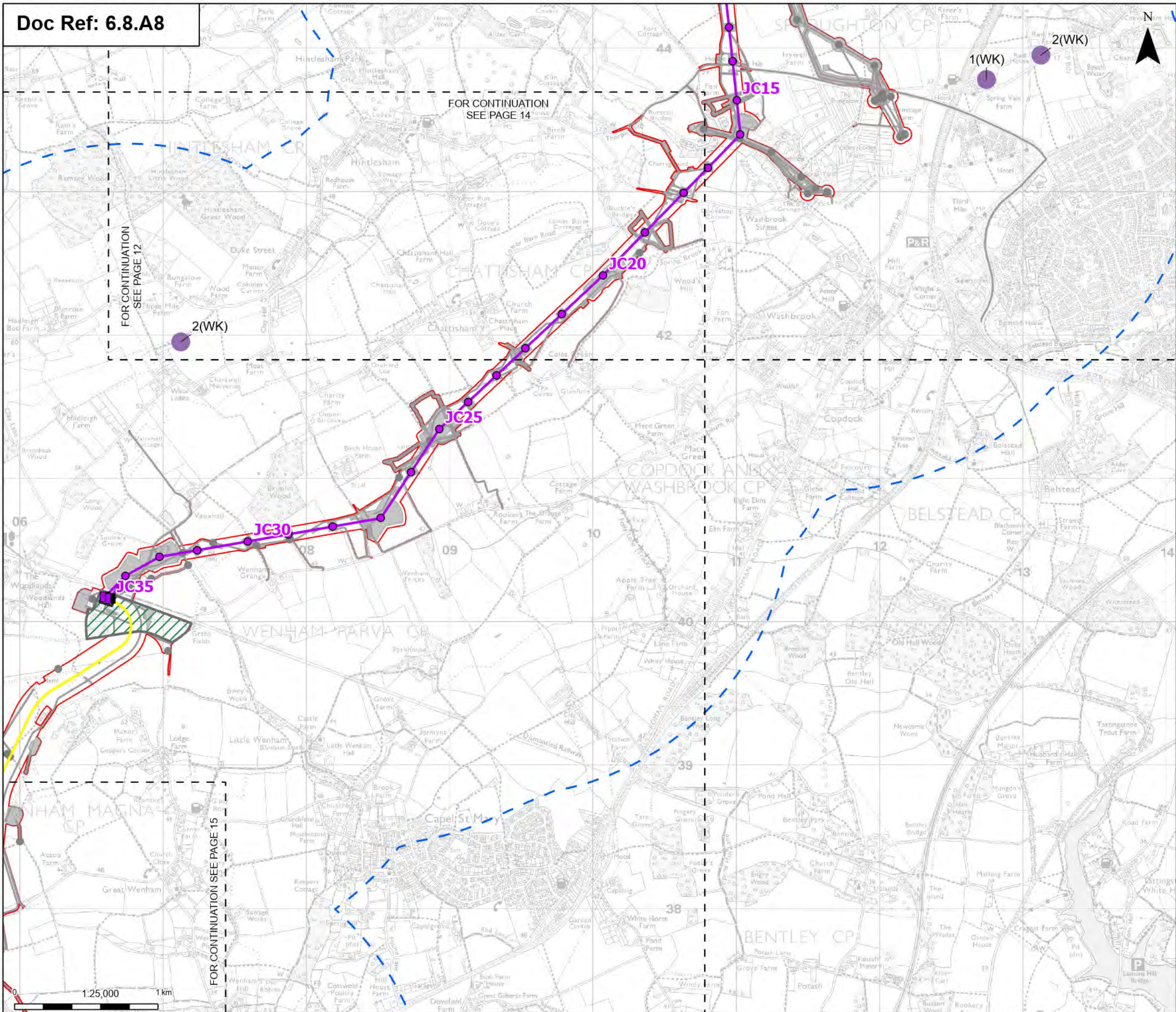
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 11 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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Order limits
Sheet index outline

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
- Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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

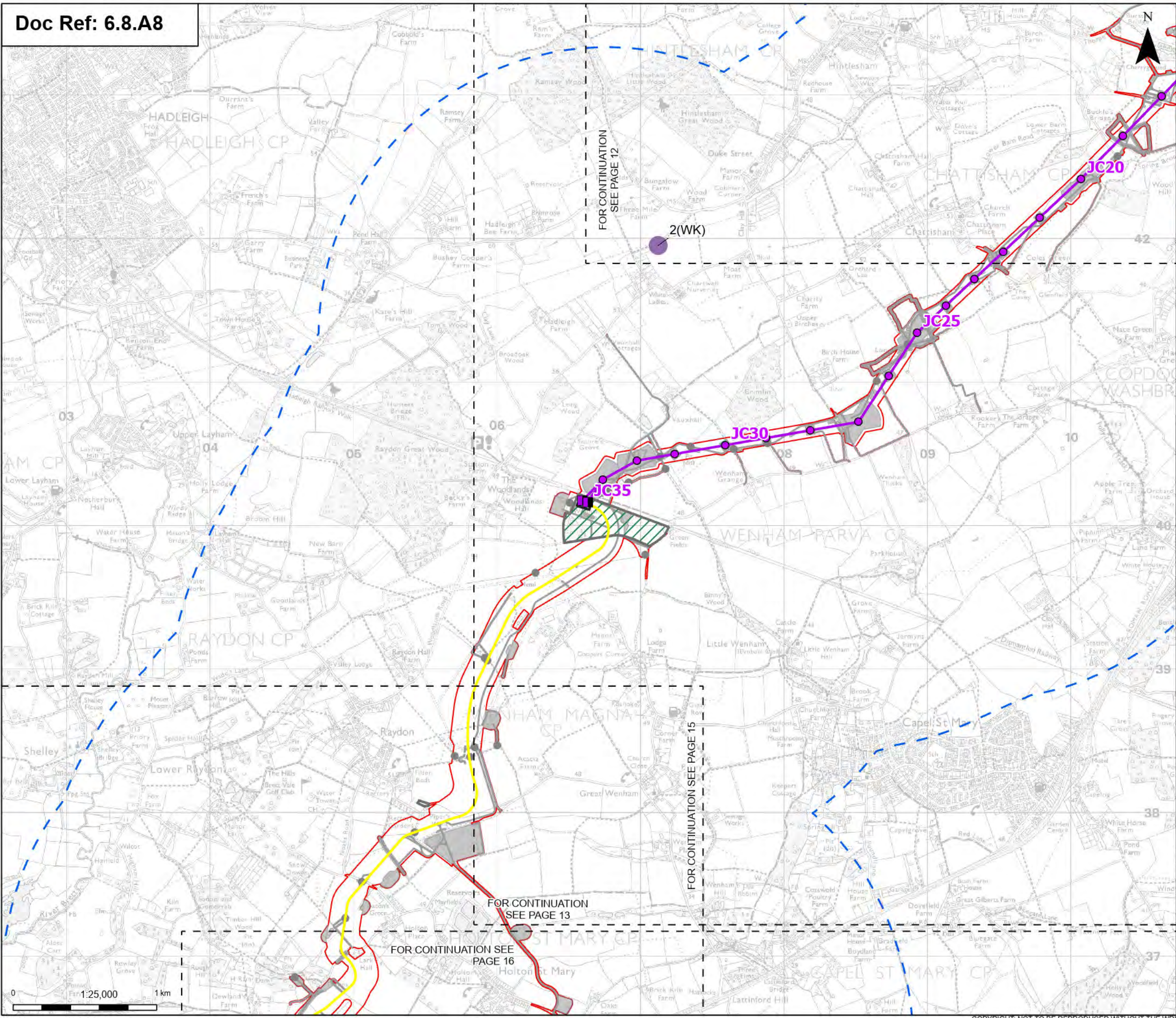
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 13 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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Order limits
Sheet index outline

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 target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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PROJECT: **Norwich to Tilbury**

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

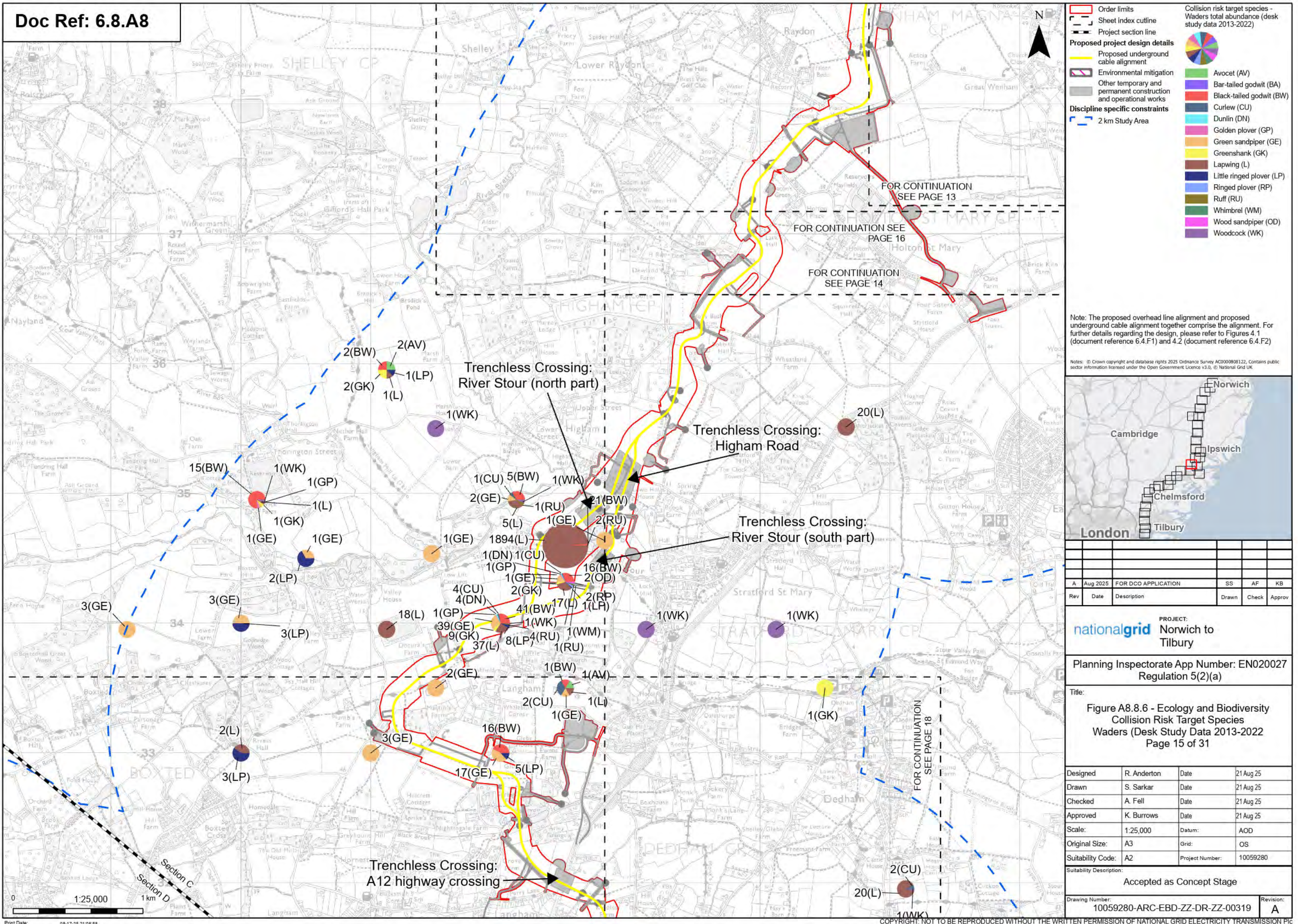
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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
Page 14 of 31**

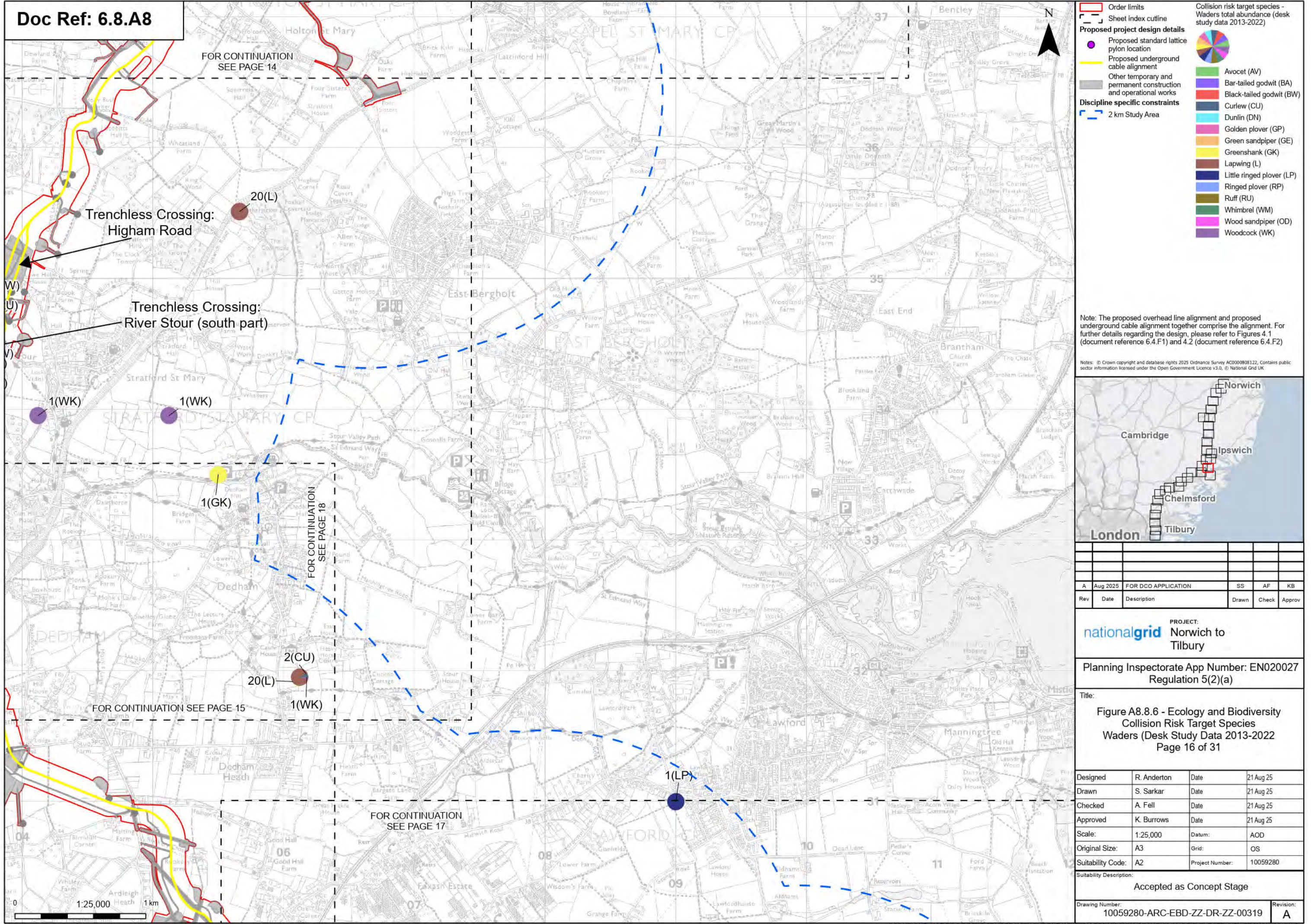
Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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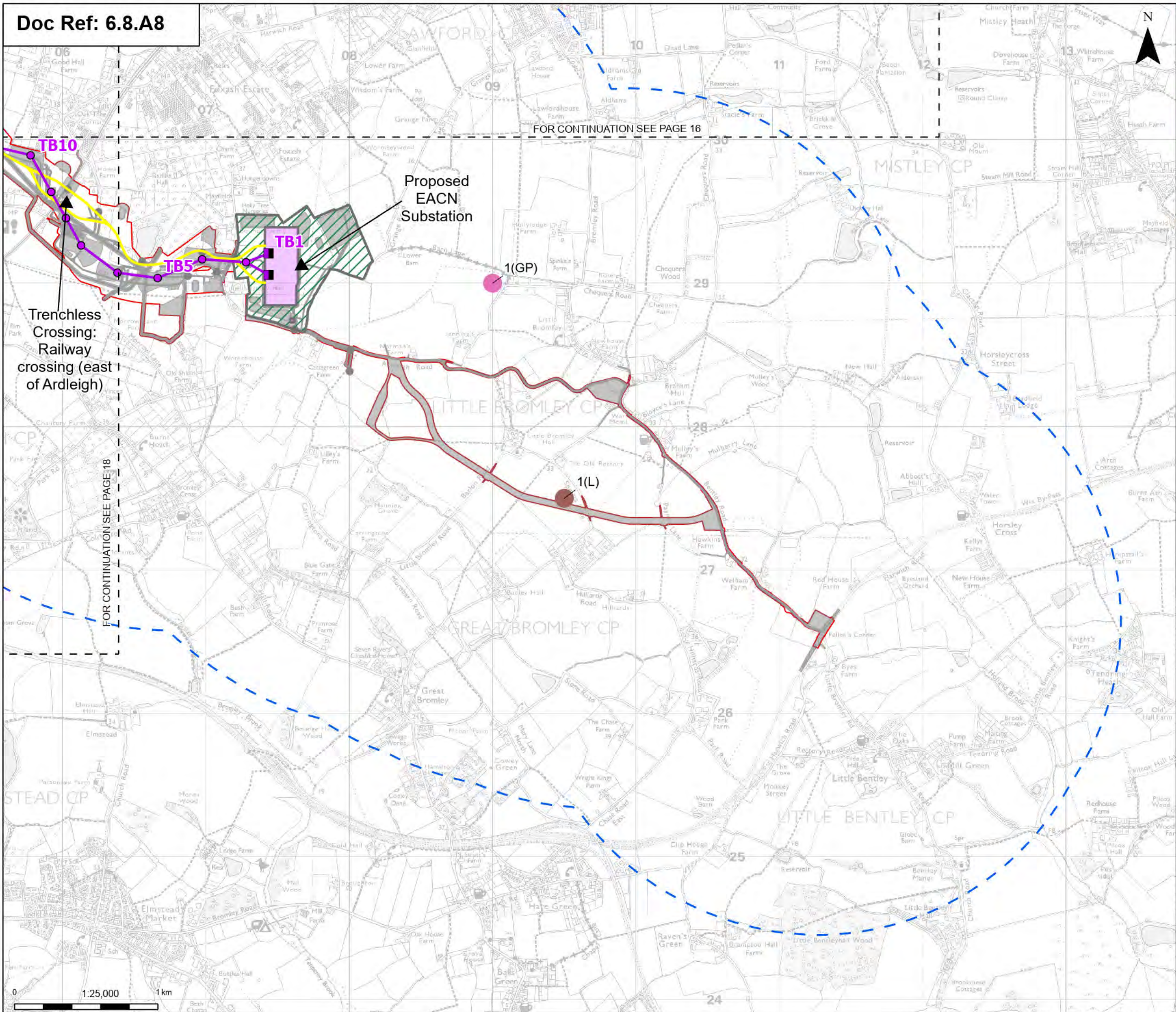
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Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319

Revision:
A







Order limits

Sheet index outline

Proposed project design details

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

2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
nationalgrid Norwich to Tilbury

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

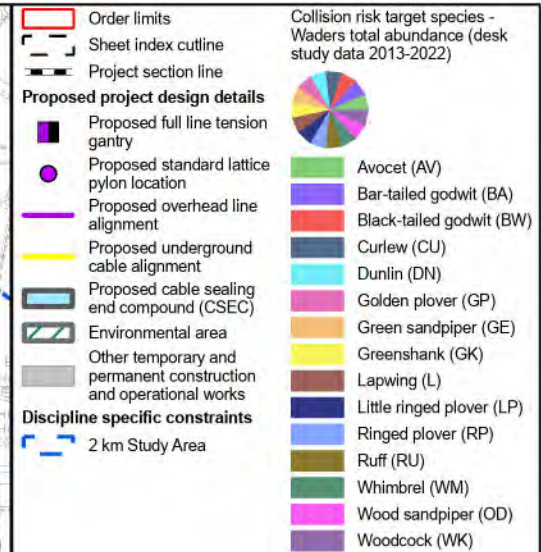
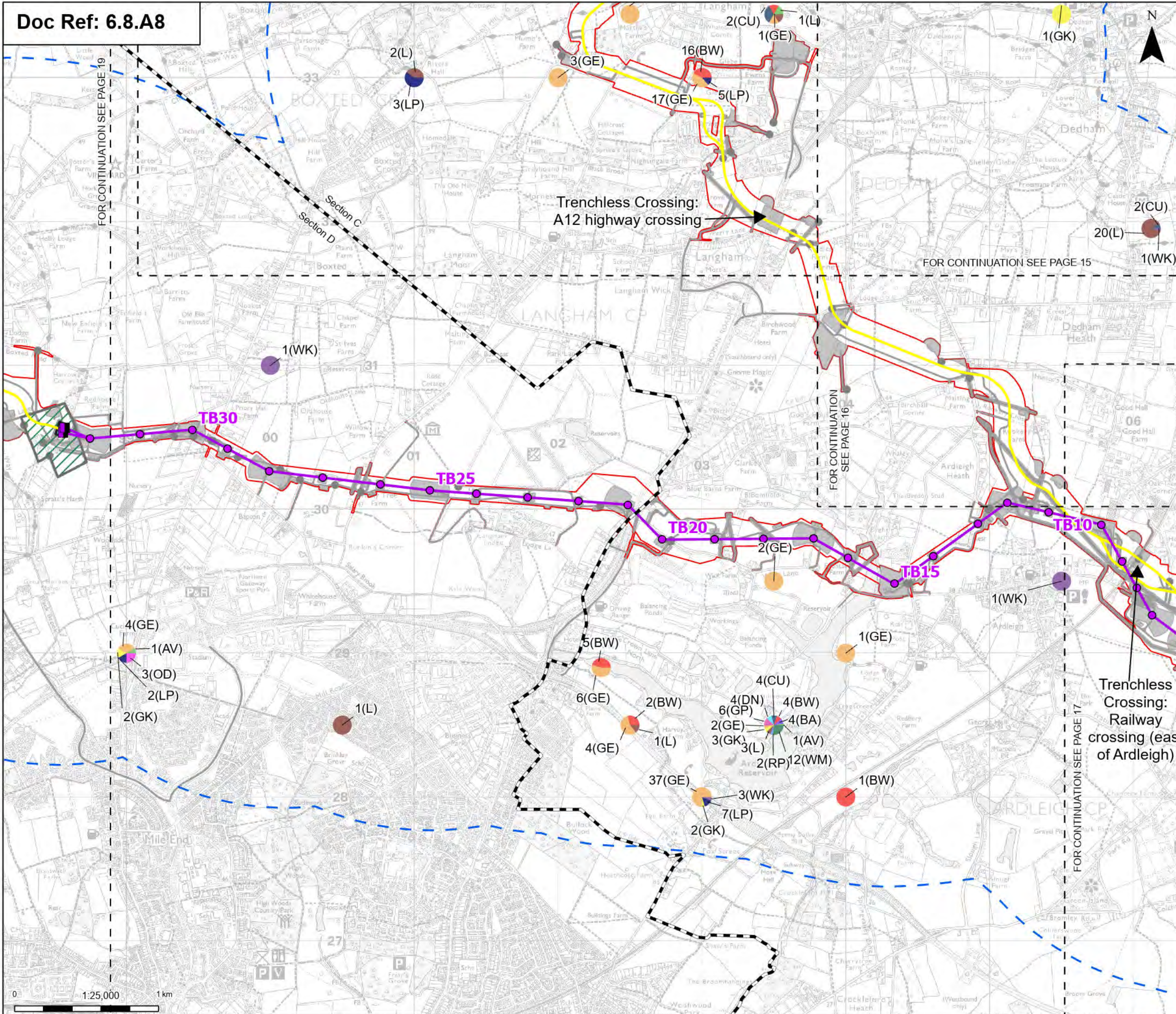
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Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 17 of 31

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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision: A
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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

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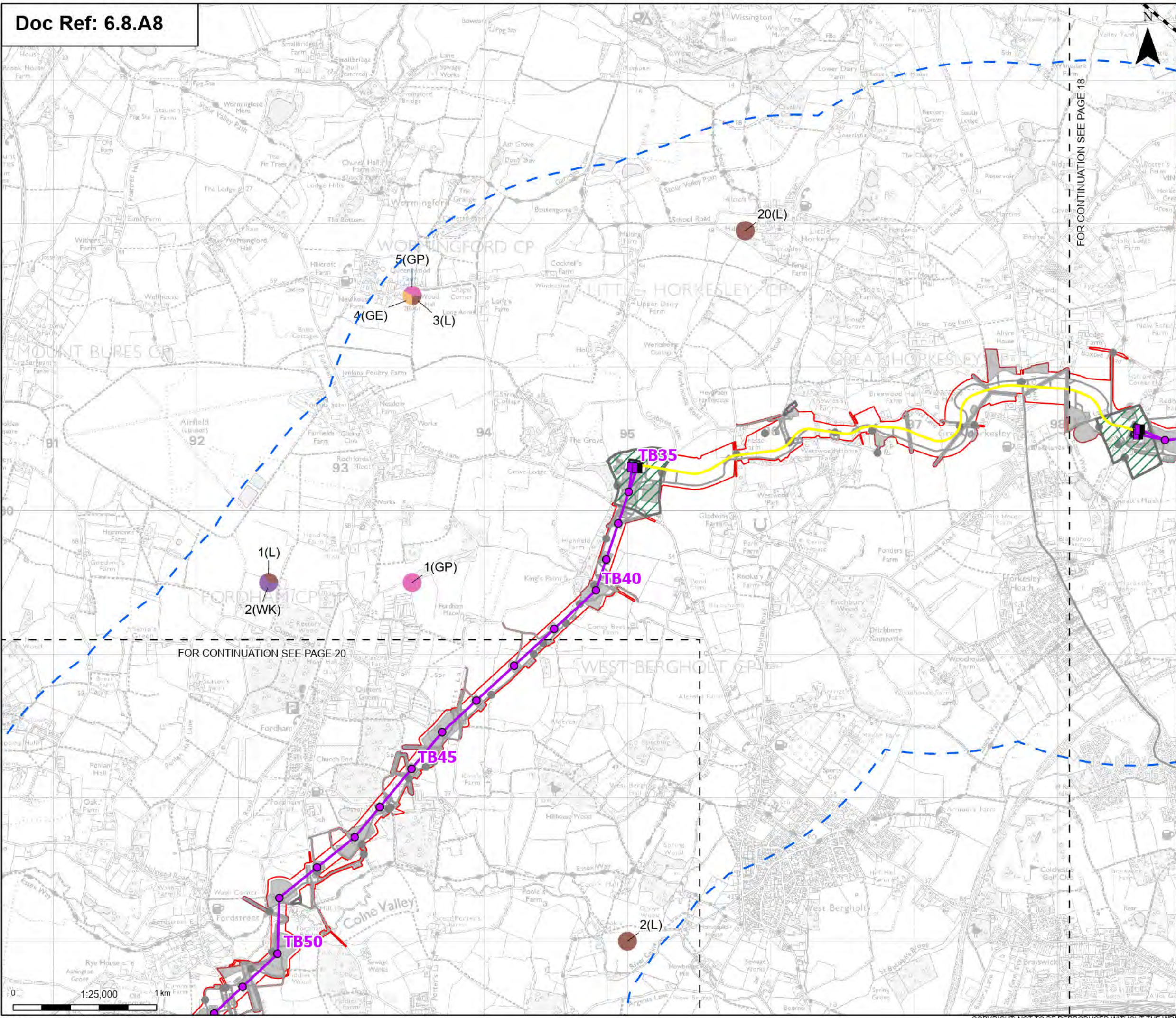
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title: Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
Page 18 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-00319	Revision: A
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Order limits

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Project section line

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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

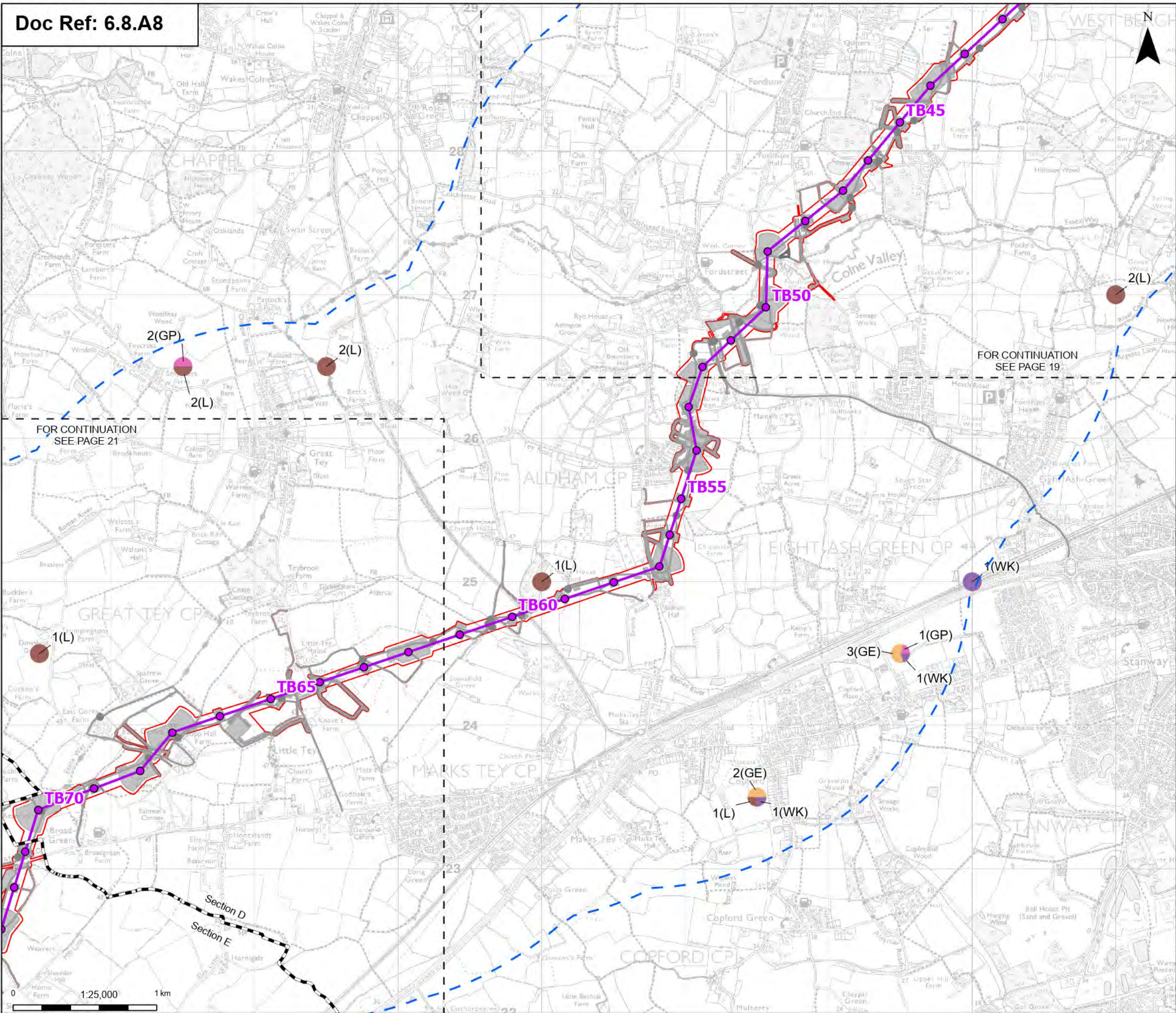
Regulation 5(2)(a)

Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (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

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00319	Revision:	A
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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

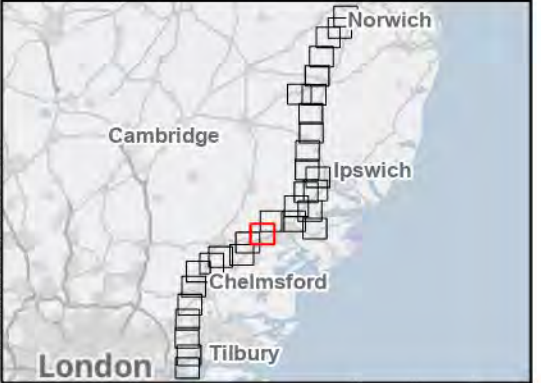
Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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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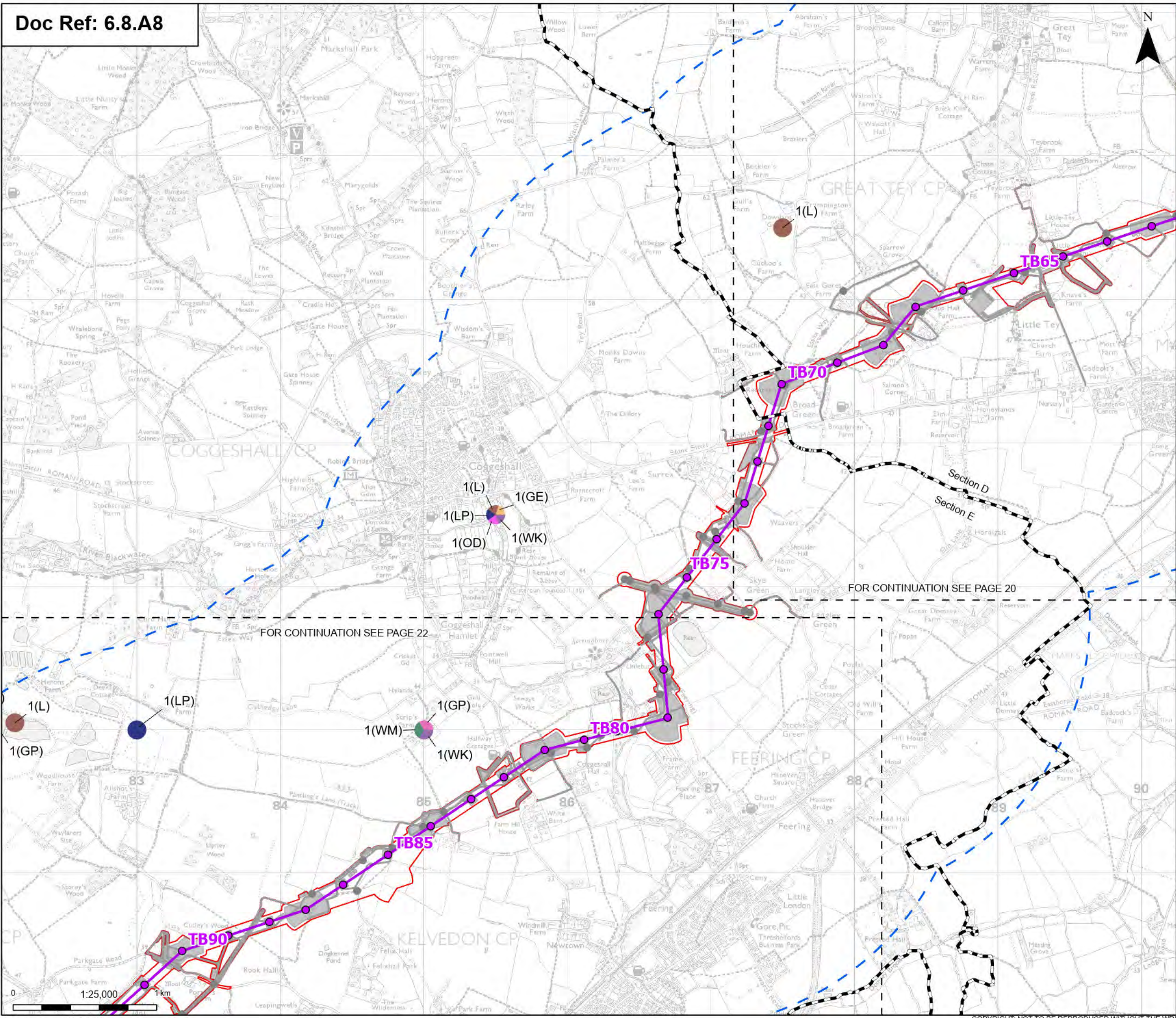
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Regulation 5(2)(a)

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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00319
Revision: A



Order limits
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Project section line

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

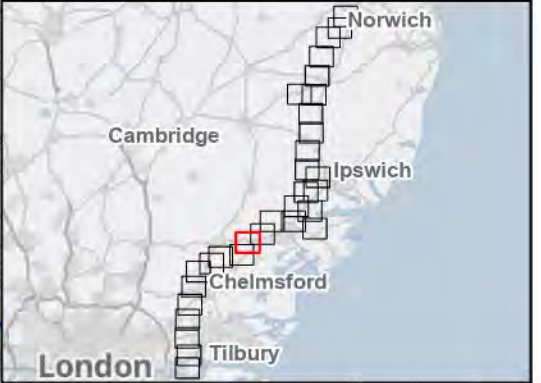
Discipline specific constraints
2 km Study Area

Collision risk target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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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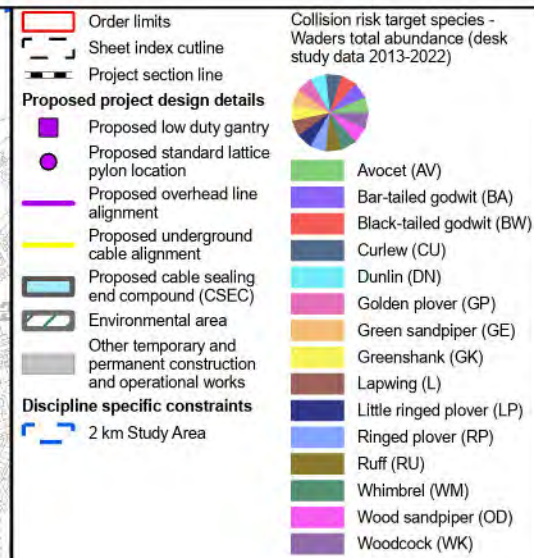
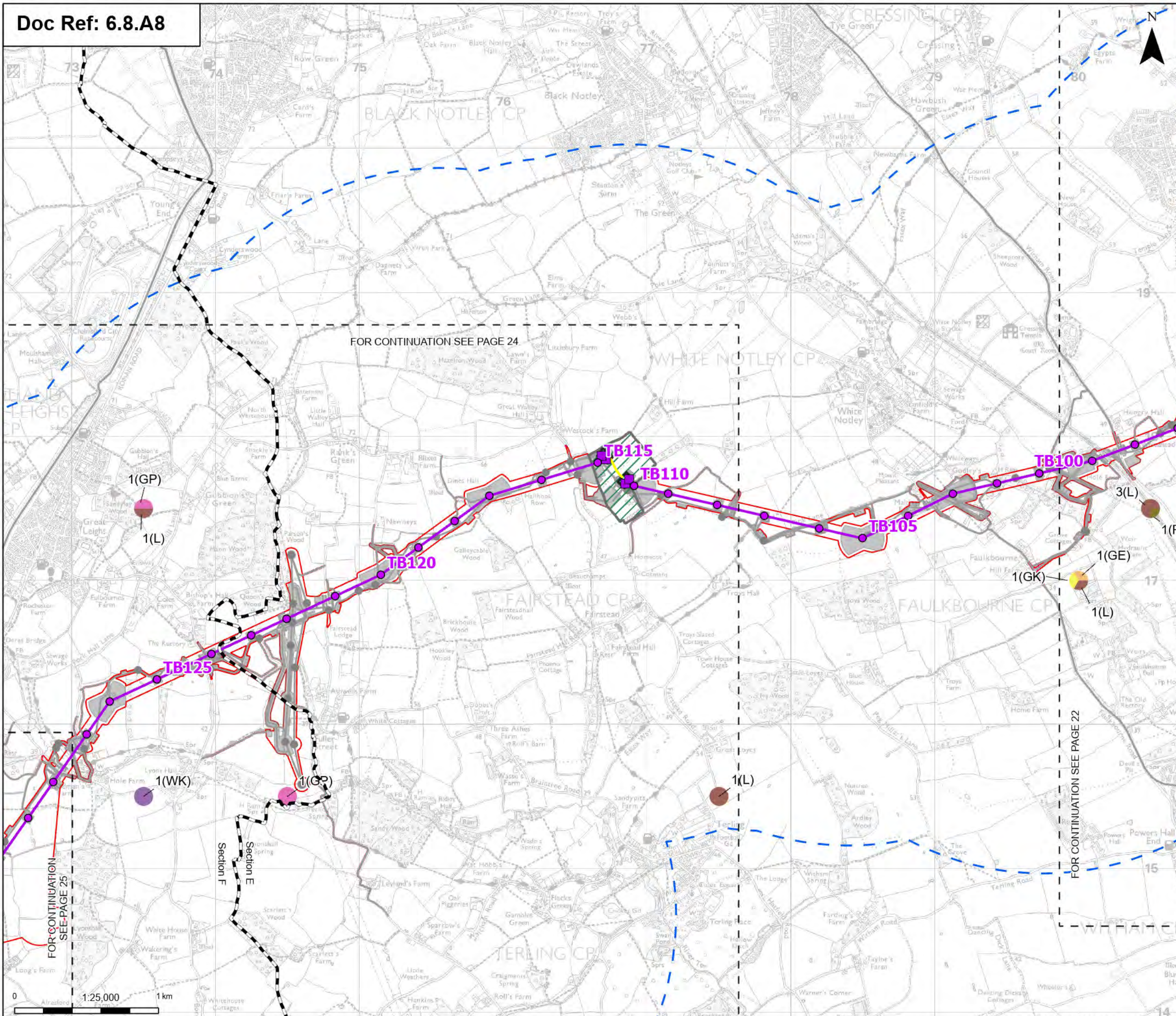
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Regulation 5(2)(a)

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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

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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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PROJECT: **Norwich to Tilbury**

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Regulation 5(2)(a)

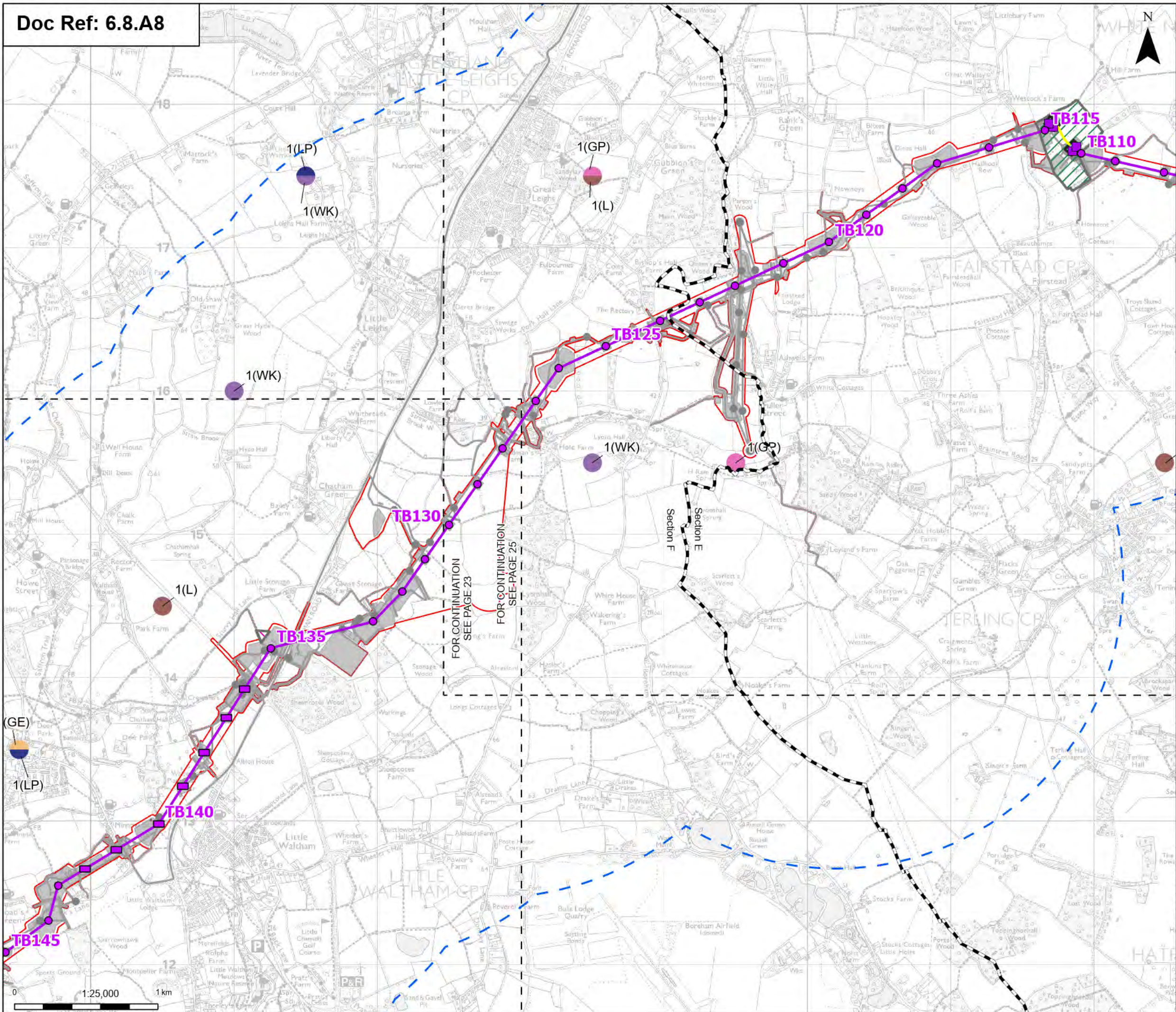
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Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Scale:	1:25,000	Datum:	AOD
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Suitability Description:
Accepted as Concept Stage

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Order limits

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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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

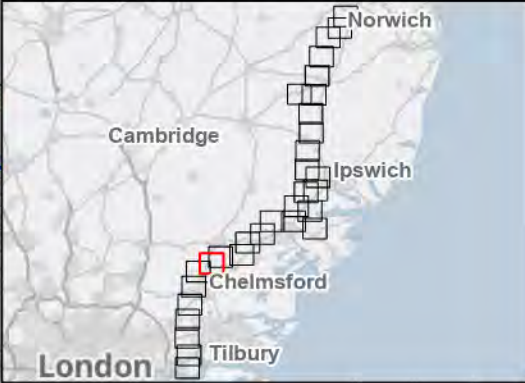
Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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**

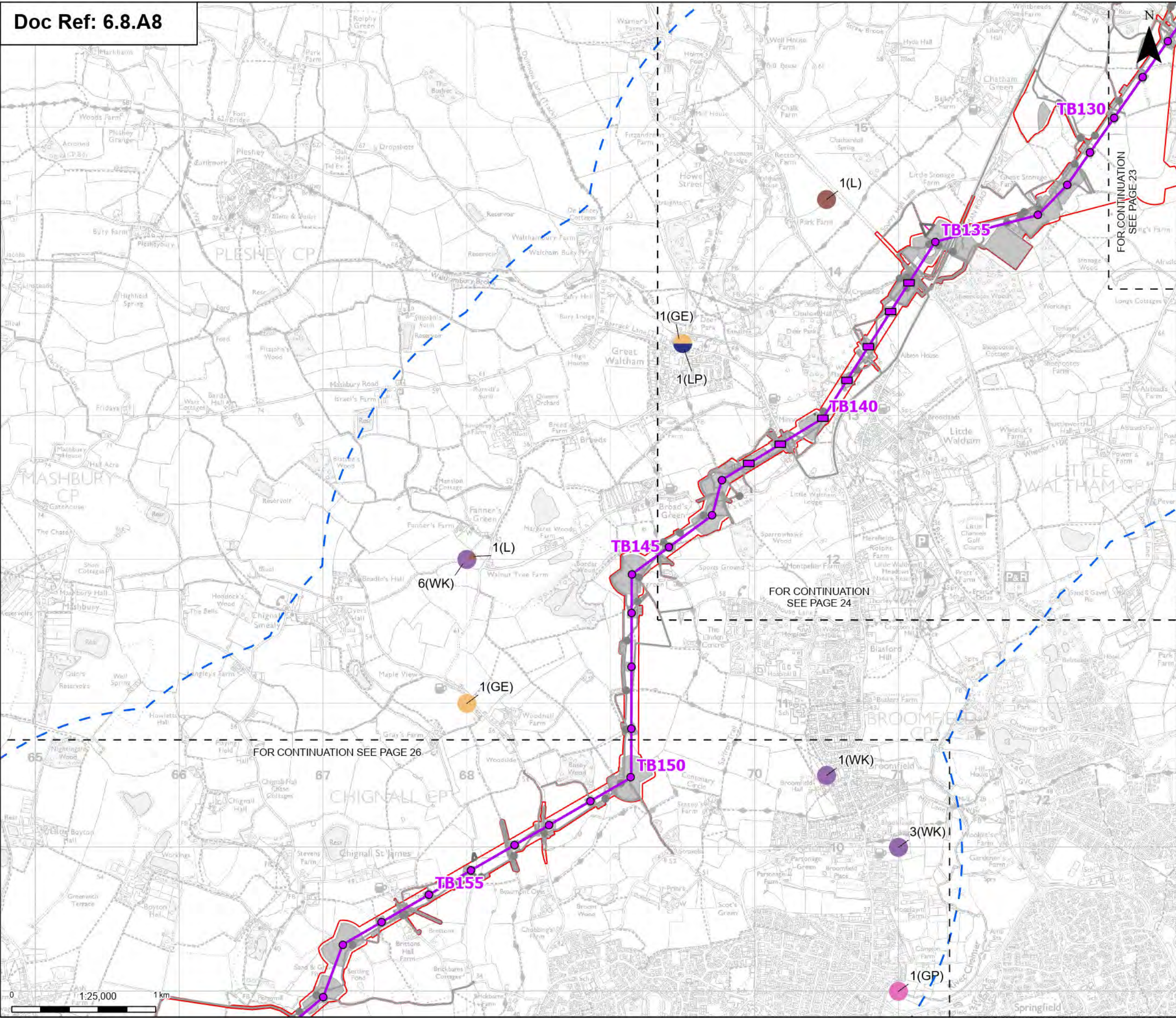
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Regulation 5(2)(a)

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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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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Order limits
Sheet index outline

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 target species - Waders total abundance (desk study data 2013-2022)

- Avocet (AV)
- Bar-tailed godwit (BA)
- Black-tailed godwit (BW)
- Curlew (CU)
- Dunlin (DN)
- Golden plover (GP)
- Green sandpiper (GE)
- Greenshank (GK)
- Lapwing (L)
- Little ringed plover (LP)
- Ringed plover (RP)
- Ruff (RU)
- Whimbrel (WM)
- Wood sandpiper (OD)
- Woodcock (WK)

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

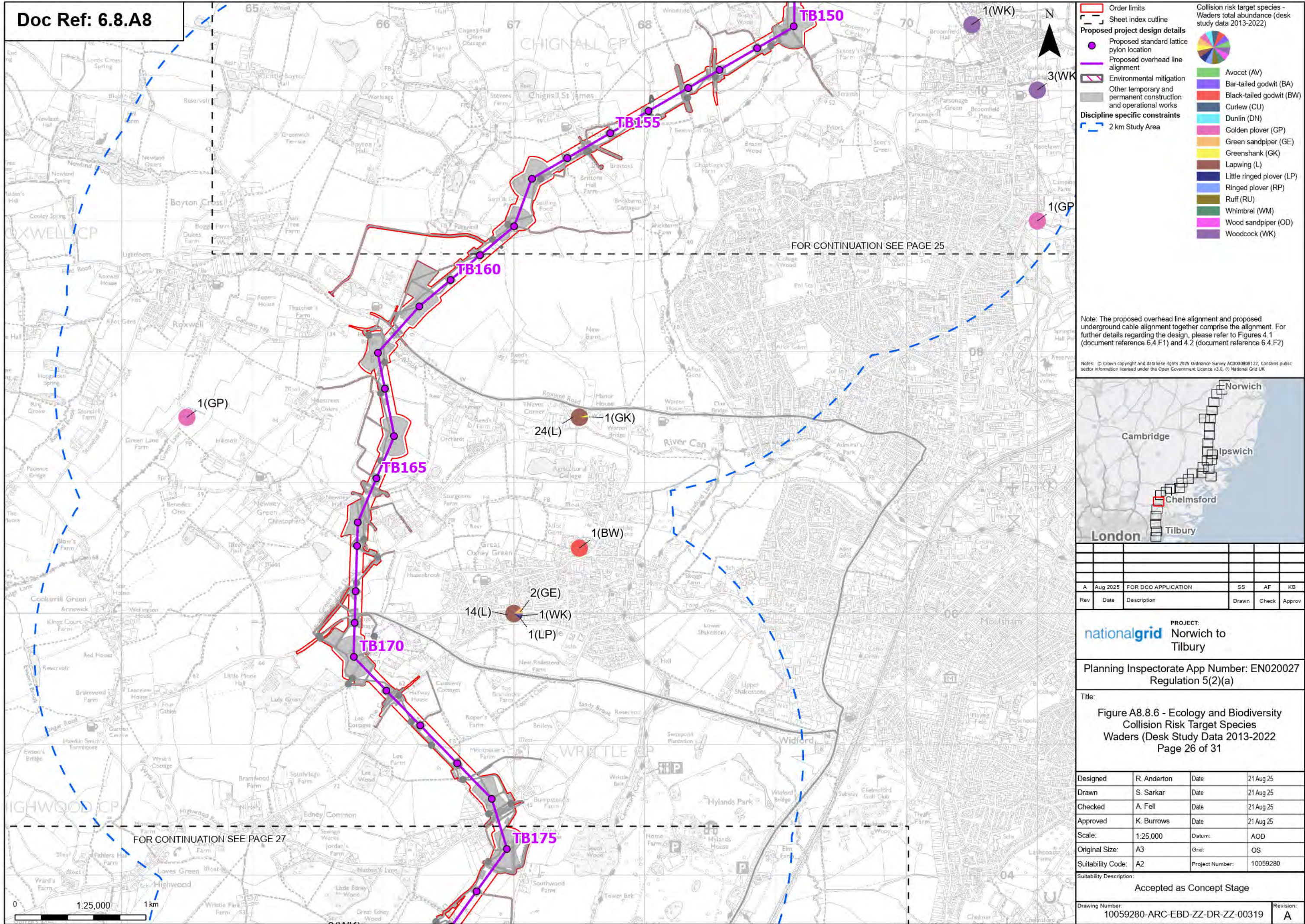
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Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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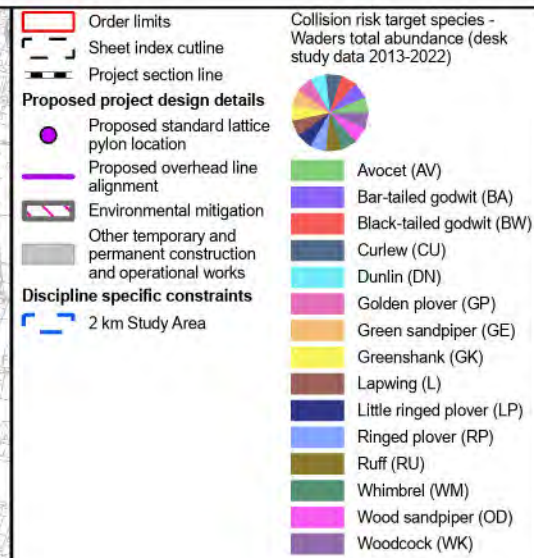
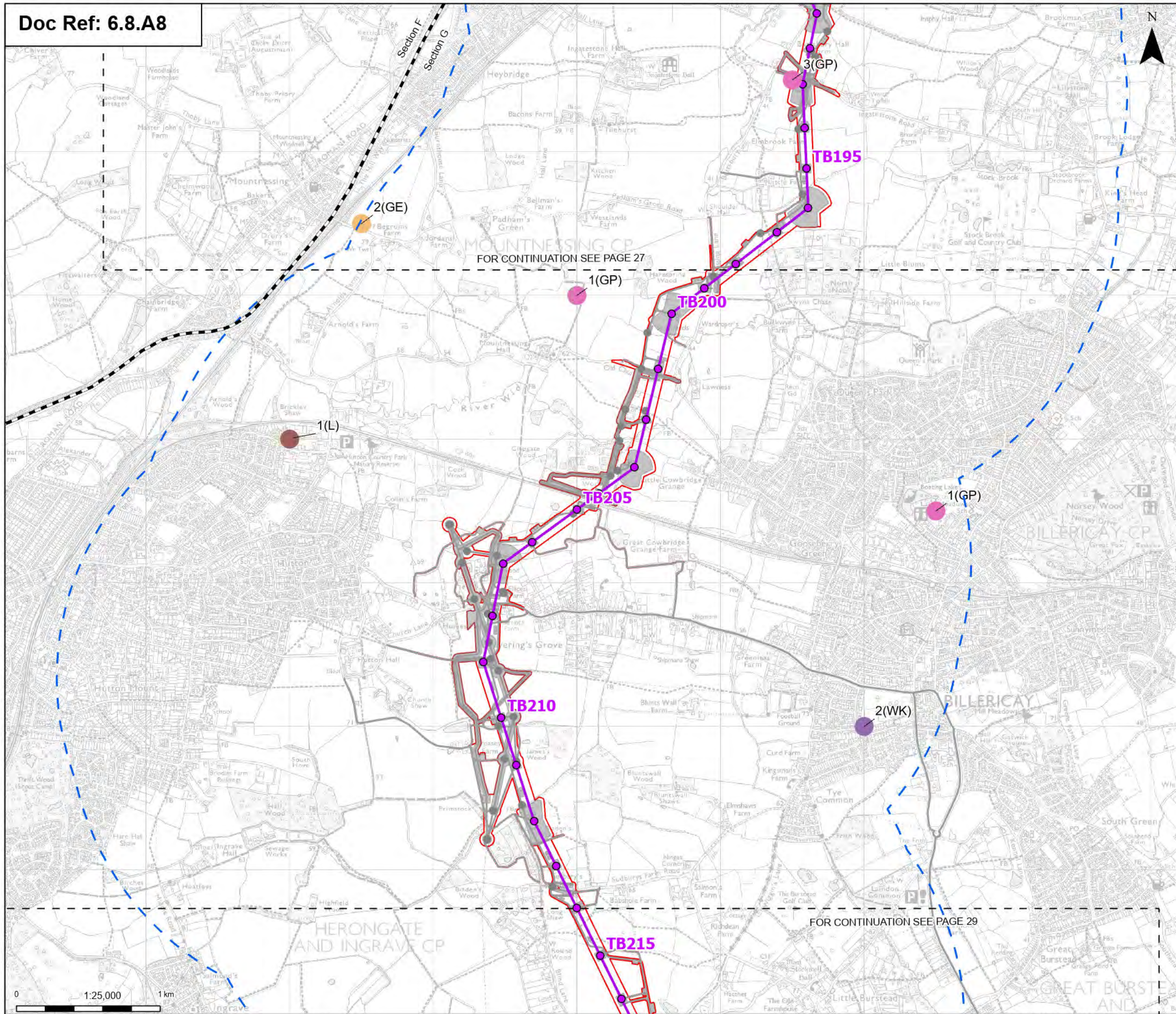
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Revision:
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PROJECT: **Norwich to Tilbury**

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

Title:
**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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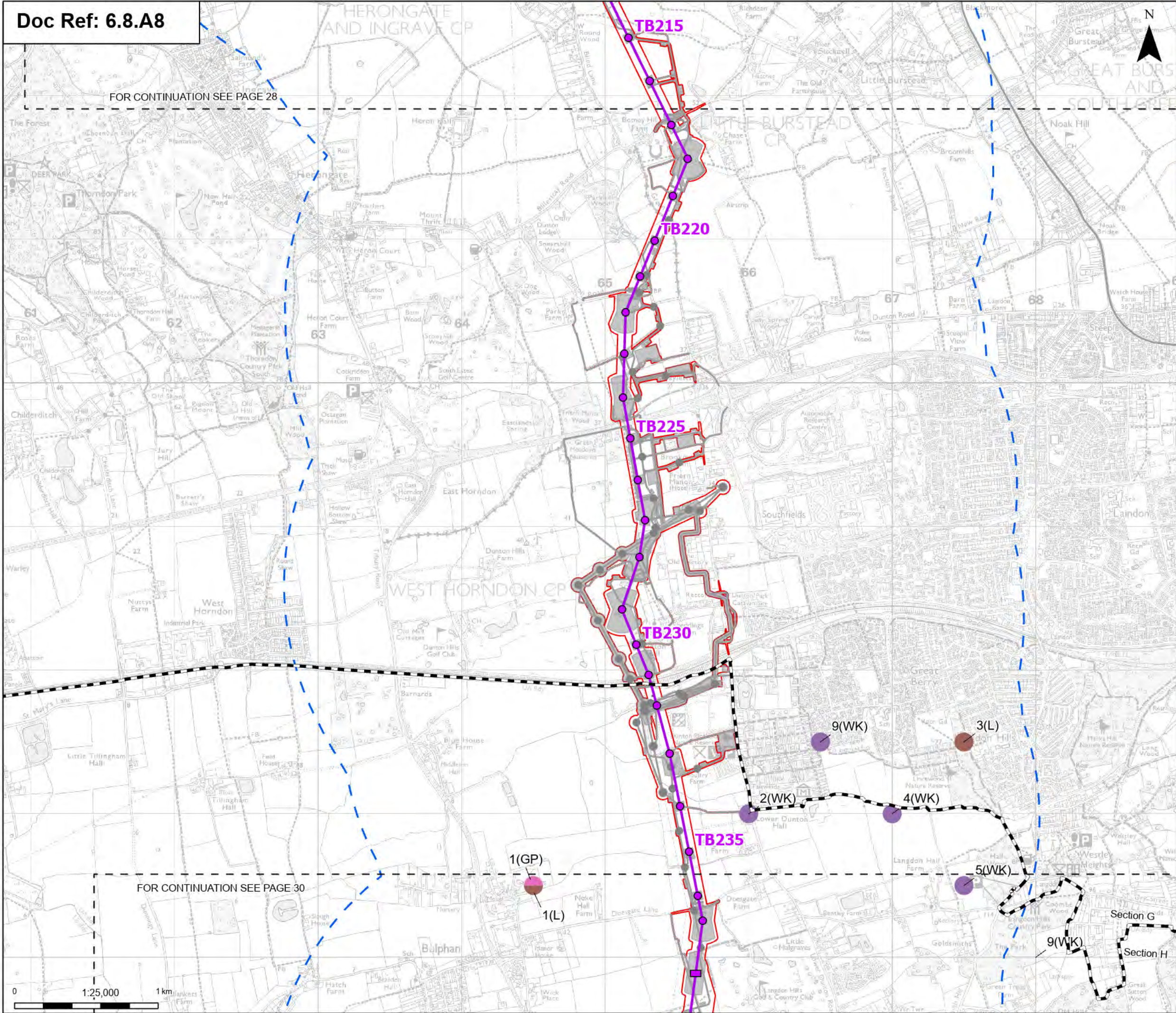
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FOR CONTINUATION SEE PAGE 30



Order limits

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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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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

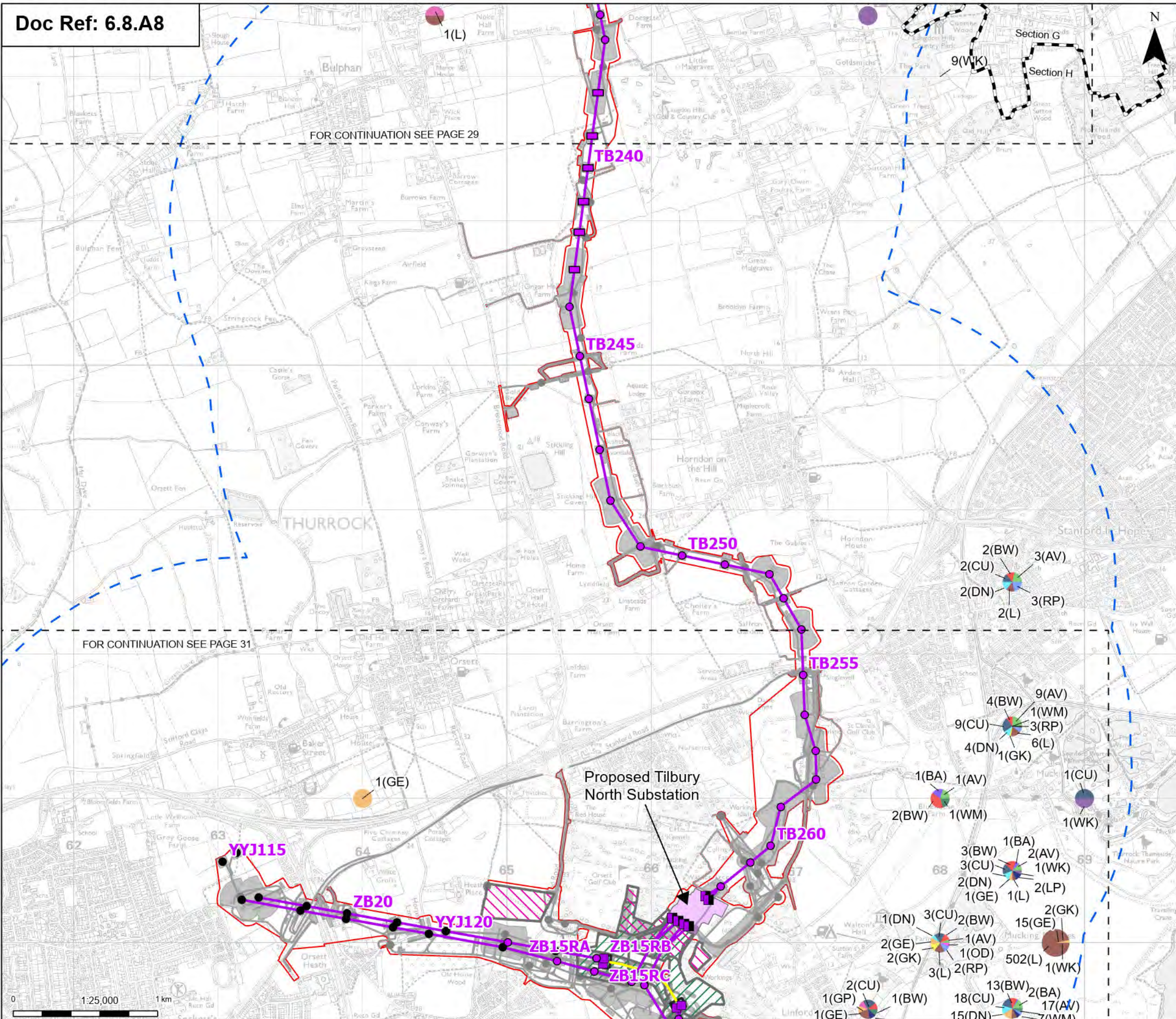
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**Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022
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Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00319

Revision:
A



Order limits
Sheet index outline
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 target species - Waders total abundance (desk study data 2013-2022)

Species	Abundance
Avocet (AV)	3
Bar-tailed godwit (BA)	1
Black-tailed godwit (BW)	2
Curlew (CU)	9
Dunlin (DN)	4
Golden plover (GP)	1
Green sandpiper (GE)	3
Greenshank (GK)	1
Lapwing (L)	2
Little ringed plover (LP)	2
Ringed plover (RP)	3
Ruff (RU)	1
Whimbrel (WM)	1
Wood sandpiper (OD)	1
Woodcock (WK)	1

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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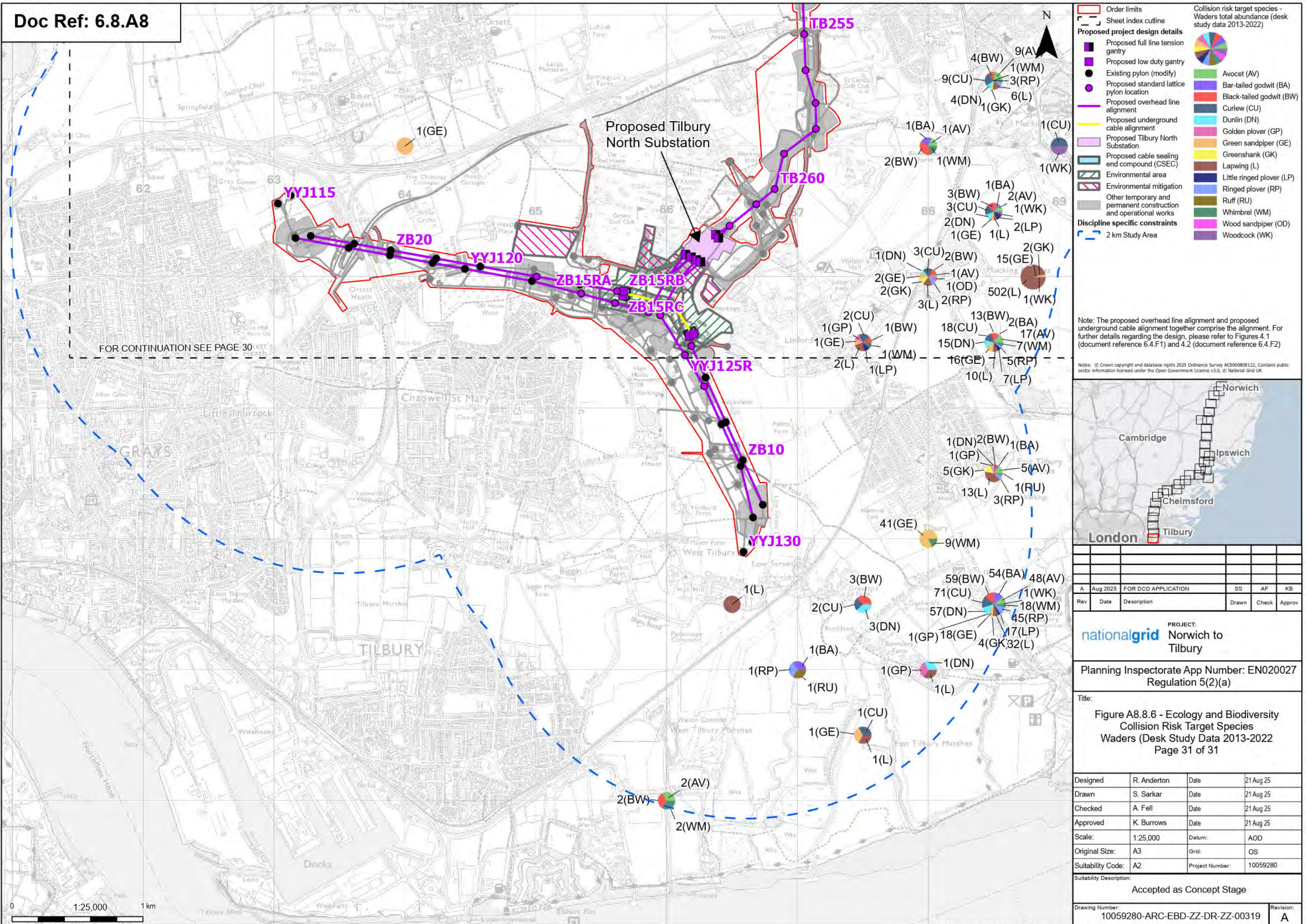
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Title:
Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Suitability Description:
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Order 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 target species - Waders total abundance (desk study data 2013-2022)

Avocet (AV)

Bar-tailed godwit (BA)

Black-tailed godwit (BW)

Curlew (CU)

Dunlin (DN)

Golden plover (GP)

Green sandpiper (GE)

Greenshank (GK)

Lapwing (L)

Little ringed plover (LP)

Ringed plover (RP)

Ruff (RU)

Whimbrel (WM)

Wood sandpiper (OD)

Woodcock (WK)

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

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Planning Inspectorate App Number: EN020027
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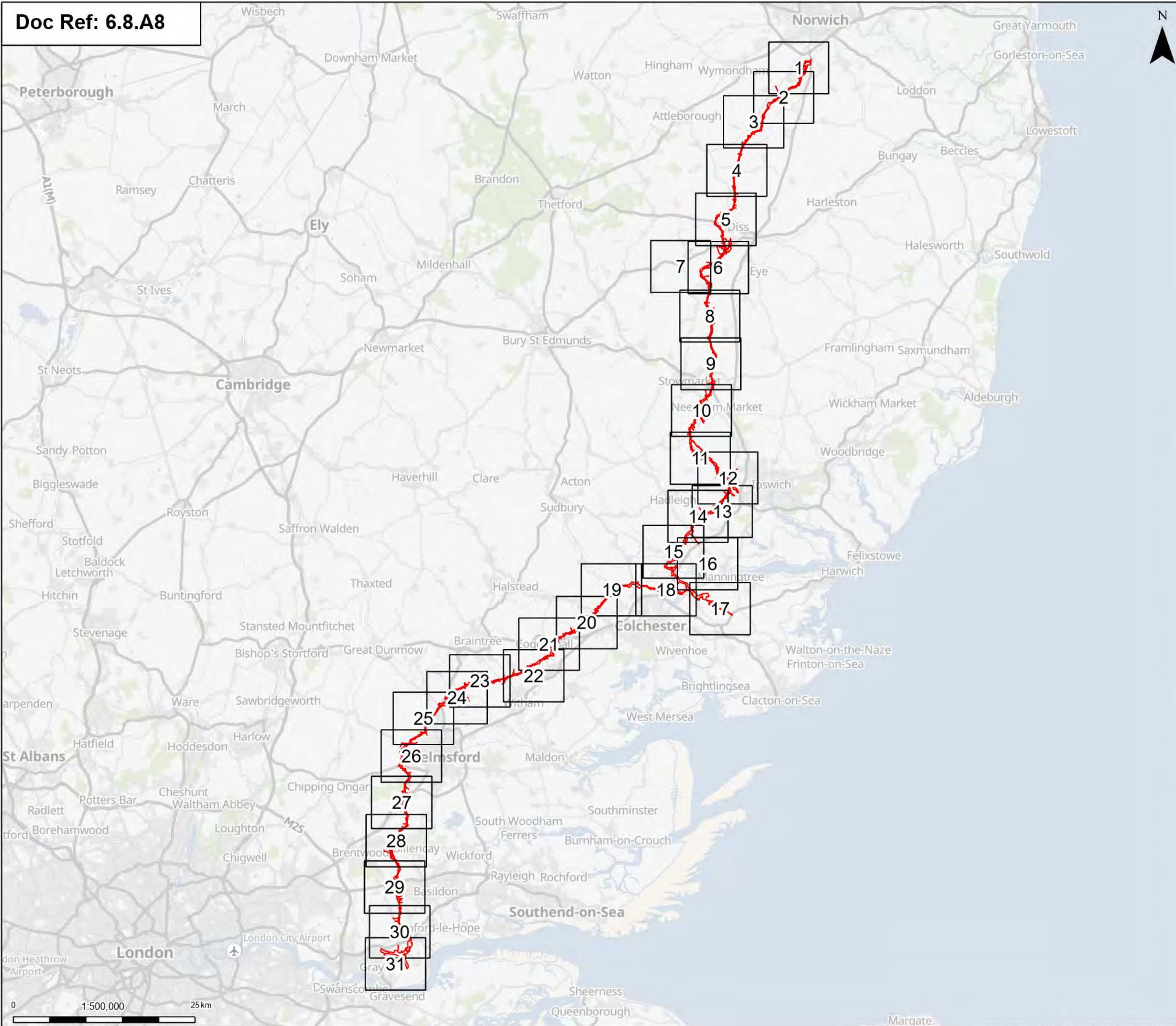
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Figure A8.8.6 - Ecology and Biodiversity
Collision Risk Target Species
Waders (Desk Study Data 2013-2022)
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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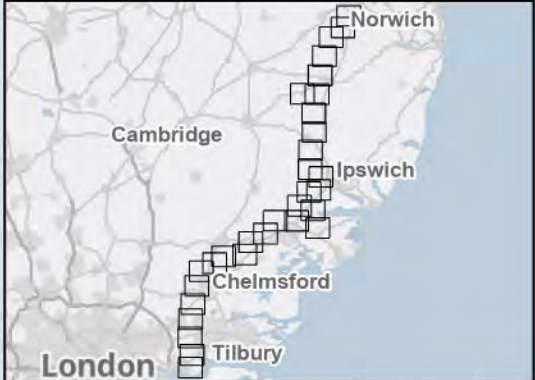
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Tilbury

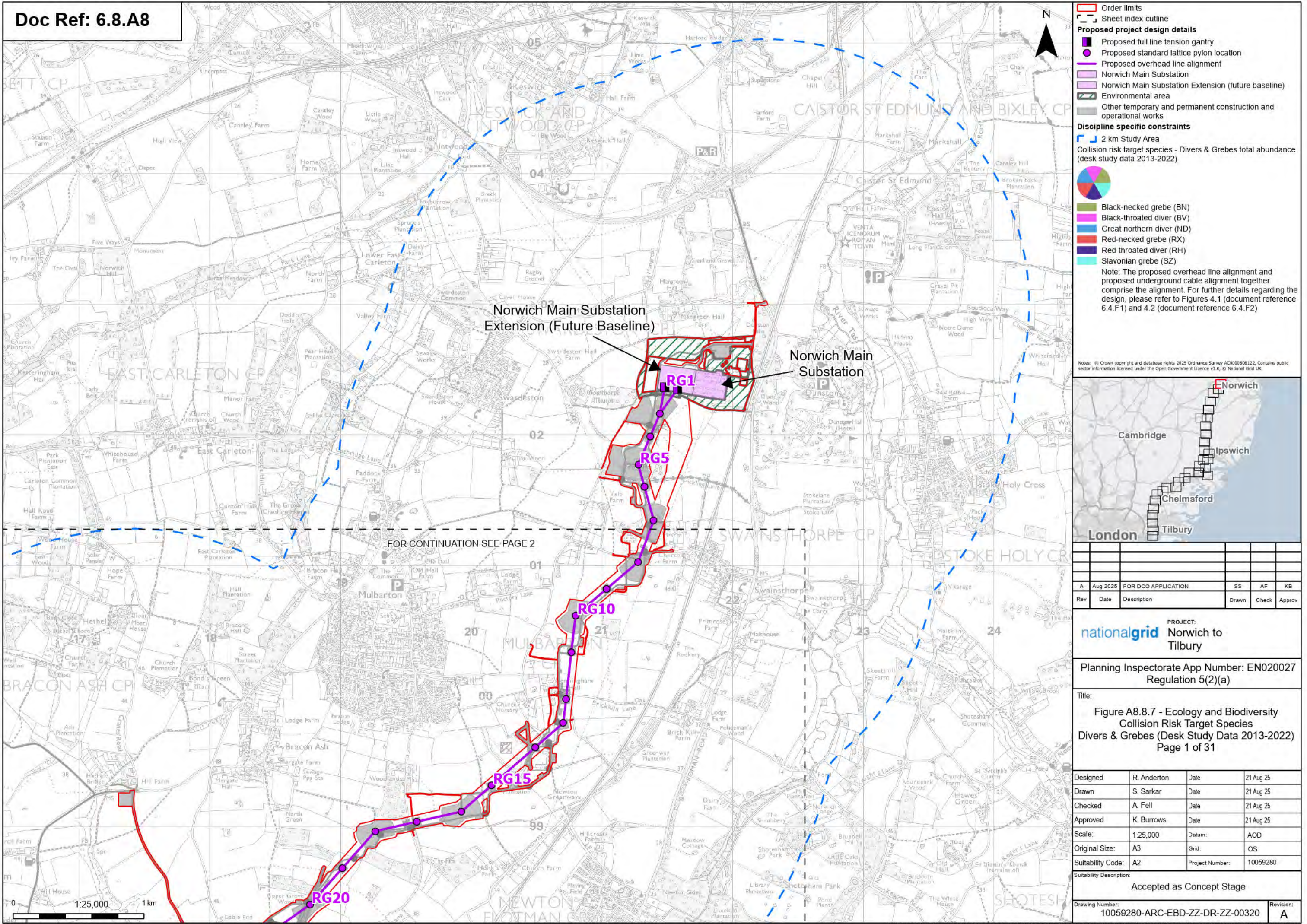
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Regulation 5(2)(a)

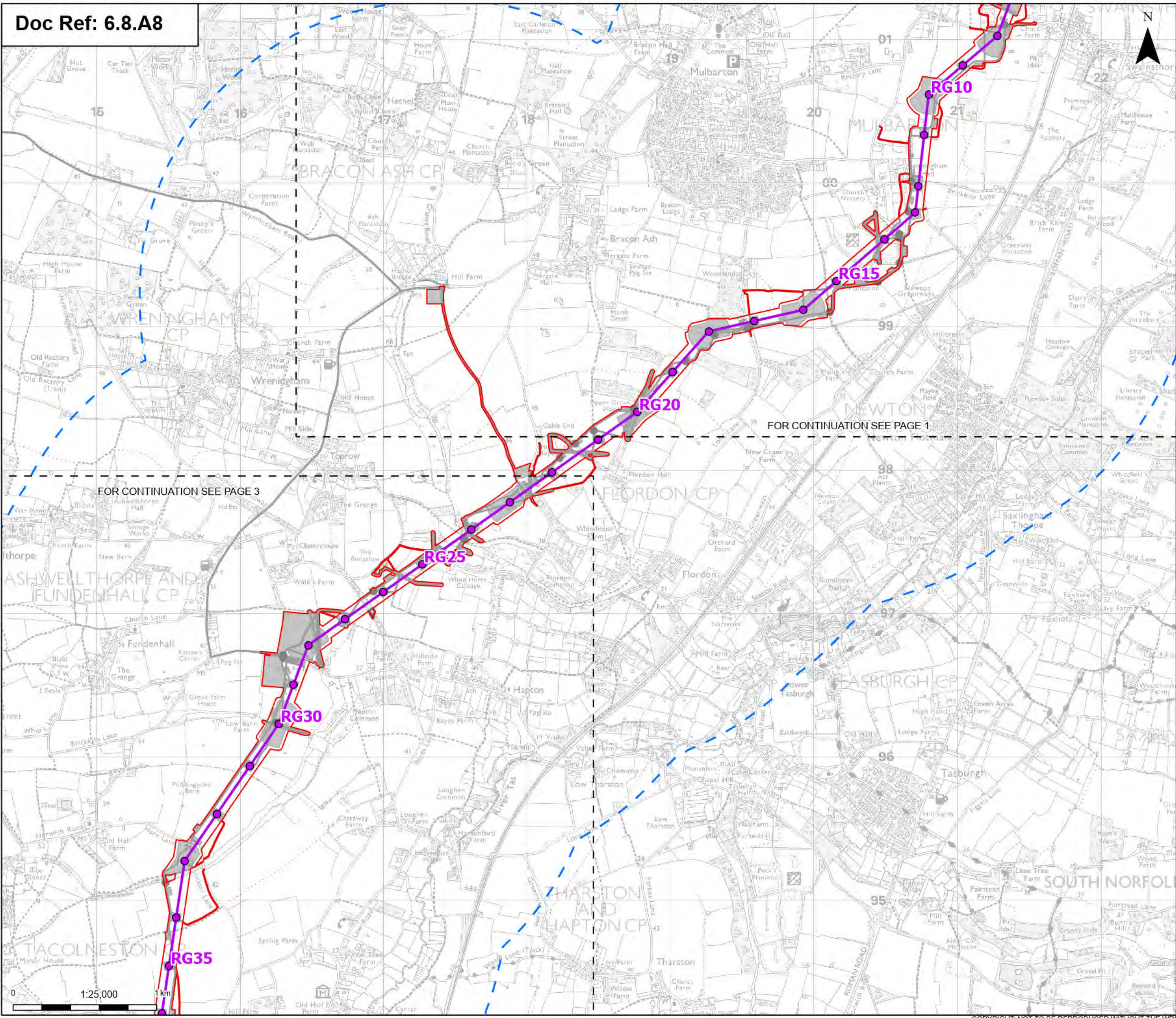
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
Overview

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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:
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10059280-ARC-EBD-ZZ-DR-ZZ-00320
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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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)

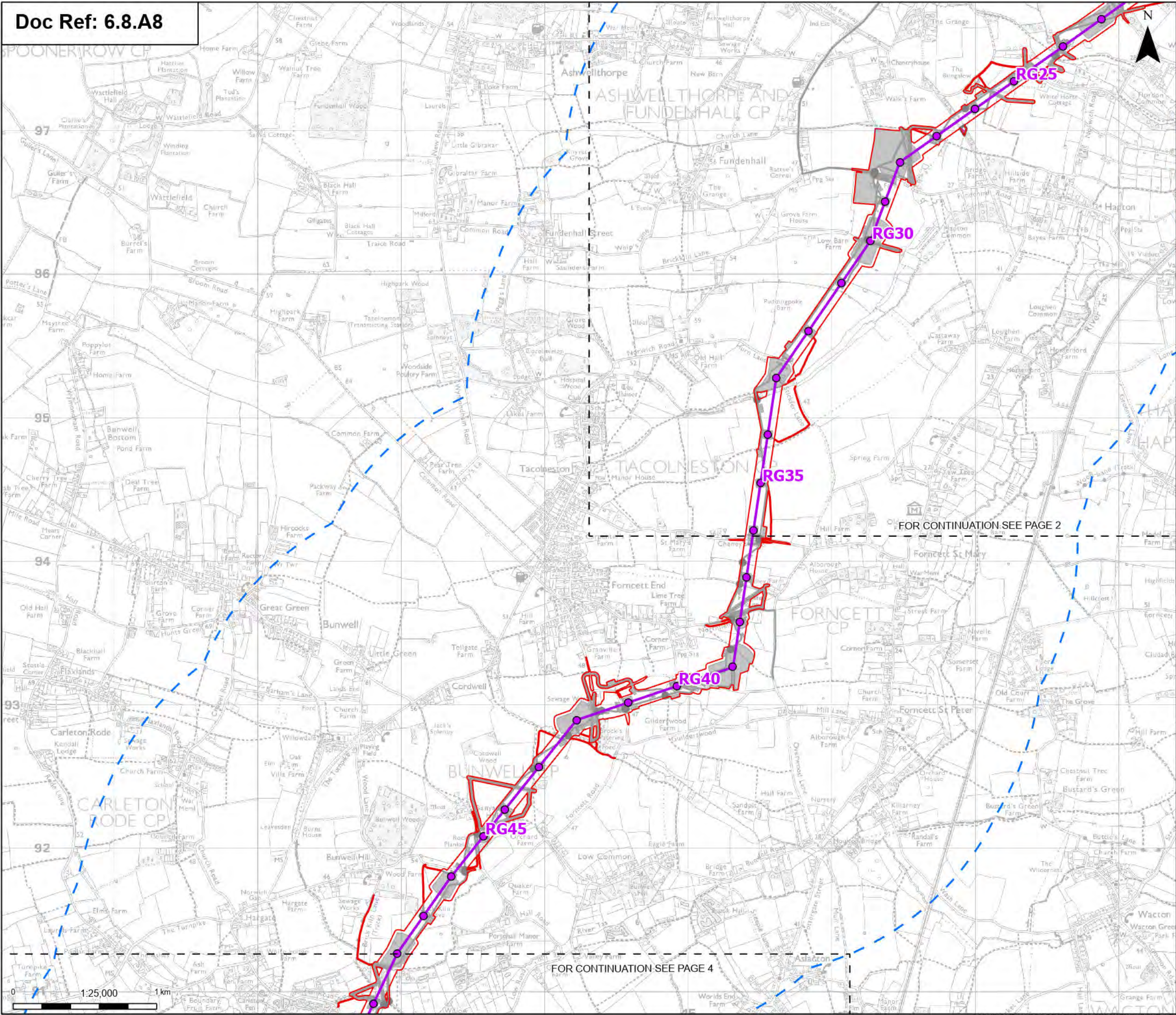
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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- Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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Planning Inspectorate App Number: EN020027
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Title:
**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (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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Scale:	1:25,000	Datum:	AOD
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Suitability Description:
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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)

Black-throated diver (BV)

Great northern diver (ND)

Red-necked grebe (RX)

Red-throated diver (RH)

Slavonian grebe (SZ)

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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Regulation 5(2)(a)

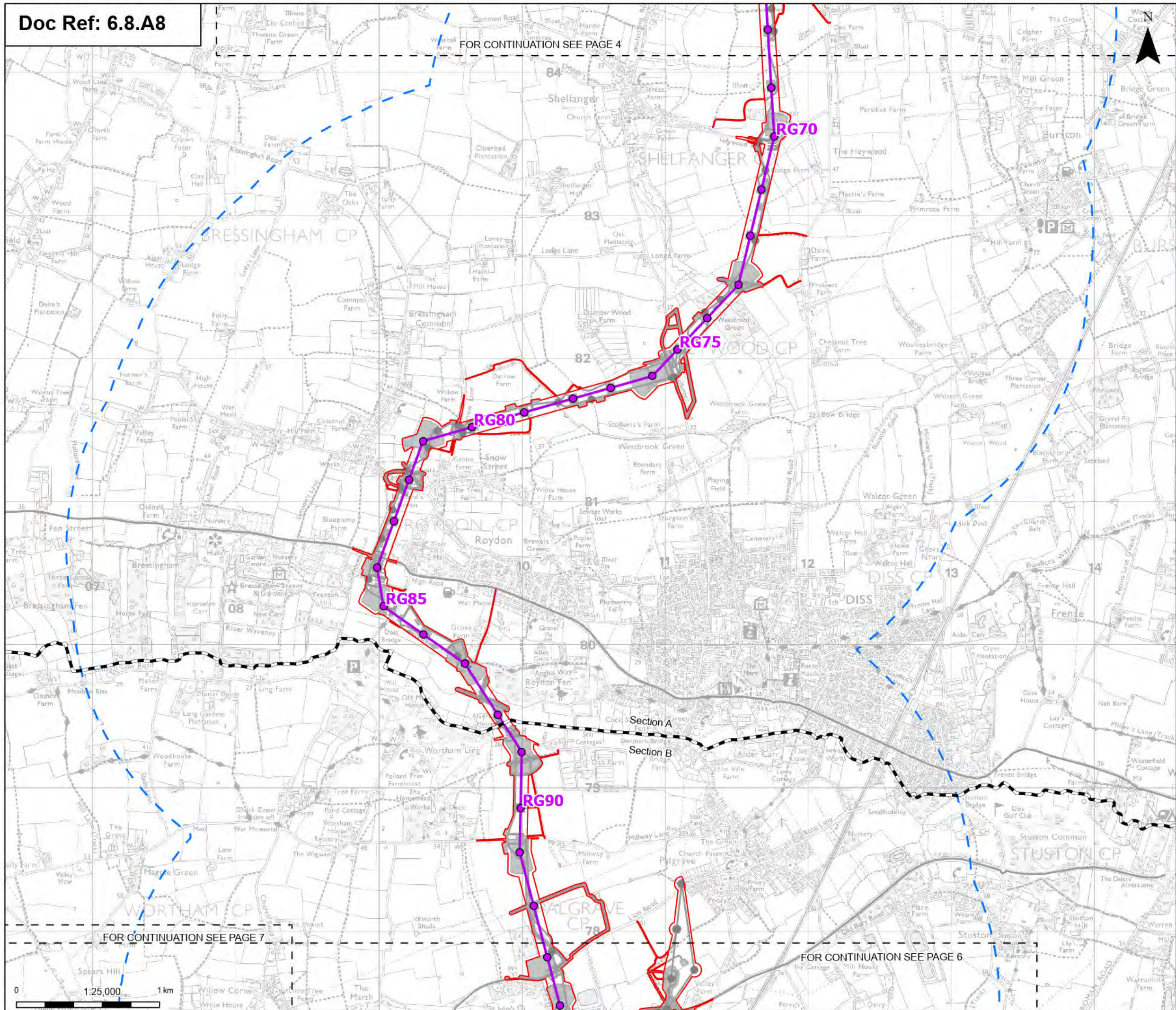
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Suitability Description:
Accepted as Concept Stage

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10059280-ARC-EBD-ZZ-DR-ZZ-00320
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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 target species - Divers & Grebes 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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Figure A8.8.7 - Ecology and Biodiversity
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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)

Black-throated diver (BV)

Great northern diver (ND)

Red-necked grebe (RX)

Red-throated diver (RH)

Slavonian grebe (SZ)

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:
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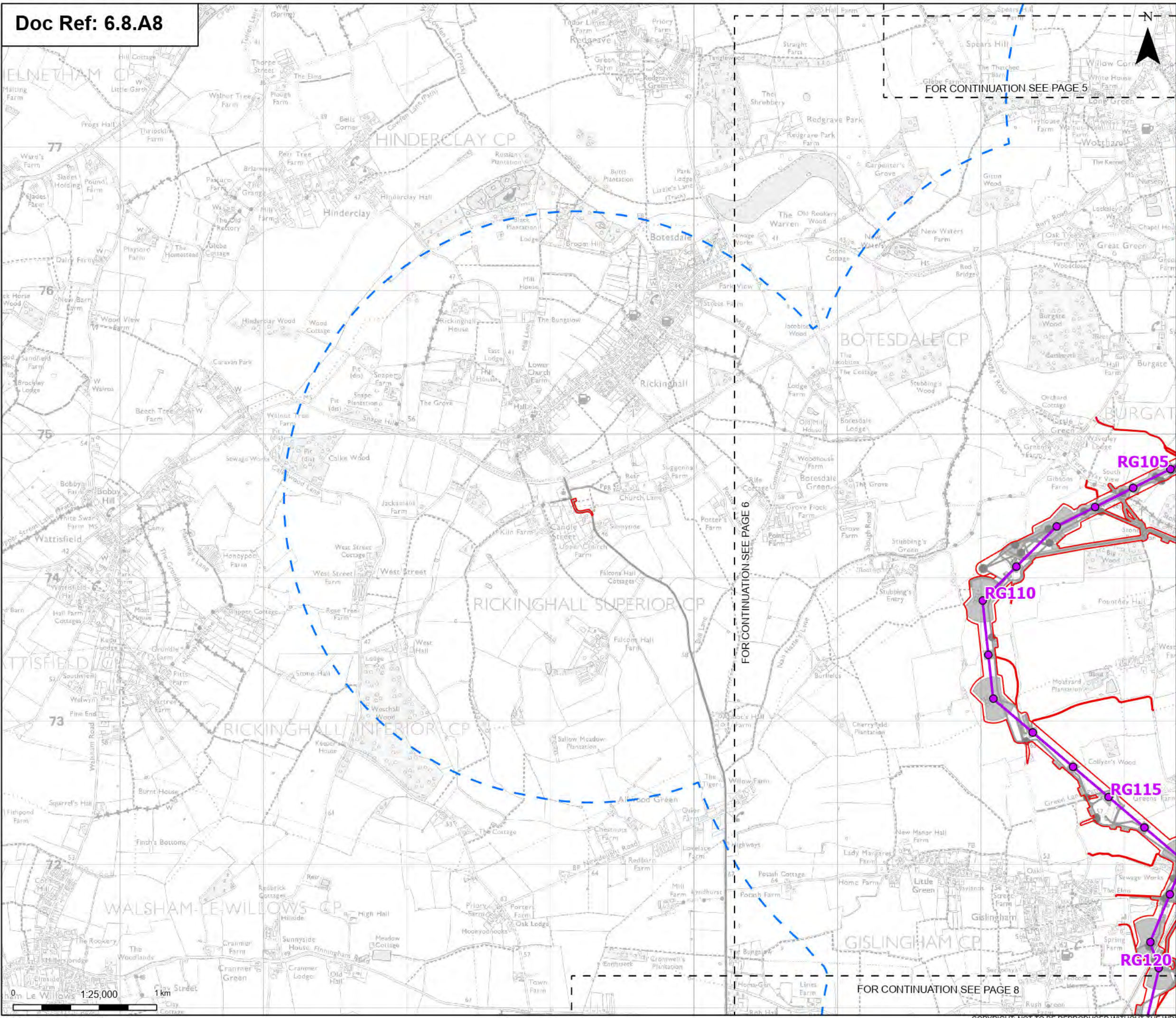
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Divers & Grebes (Desk Study Data 2013-2022)
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Suitability Description:
Accepted as Concept Stage

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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 target species - Divers & Grebes 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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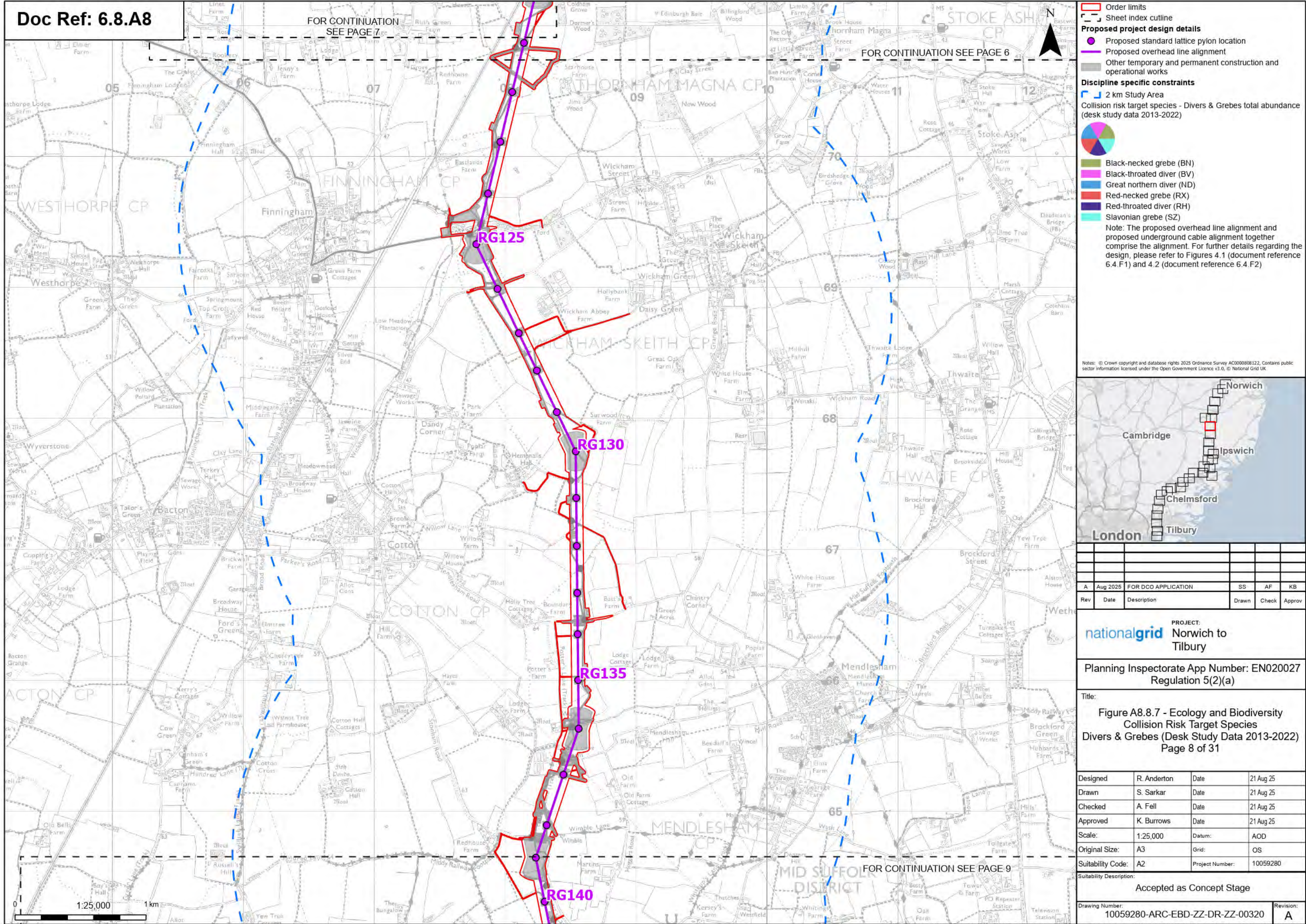
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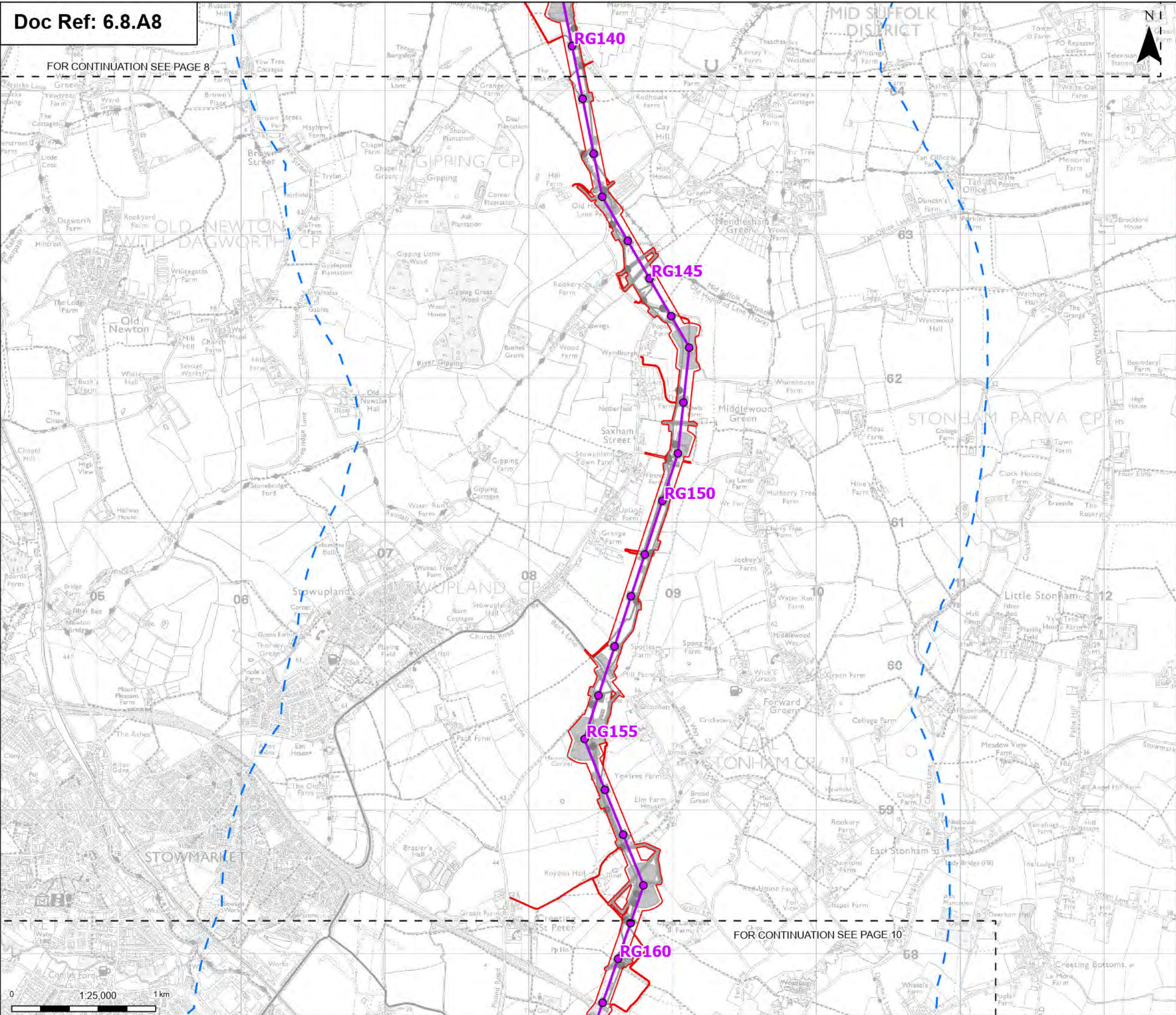
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Proposed project design details

- 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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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Planning Inspectorate App Number: EN020027
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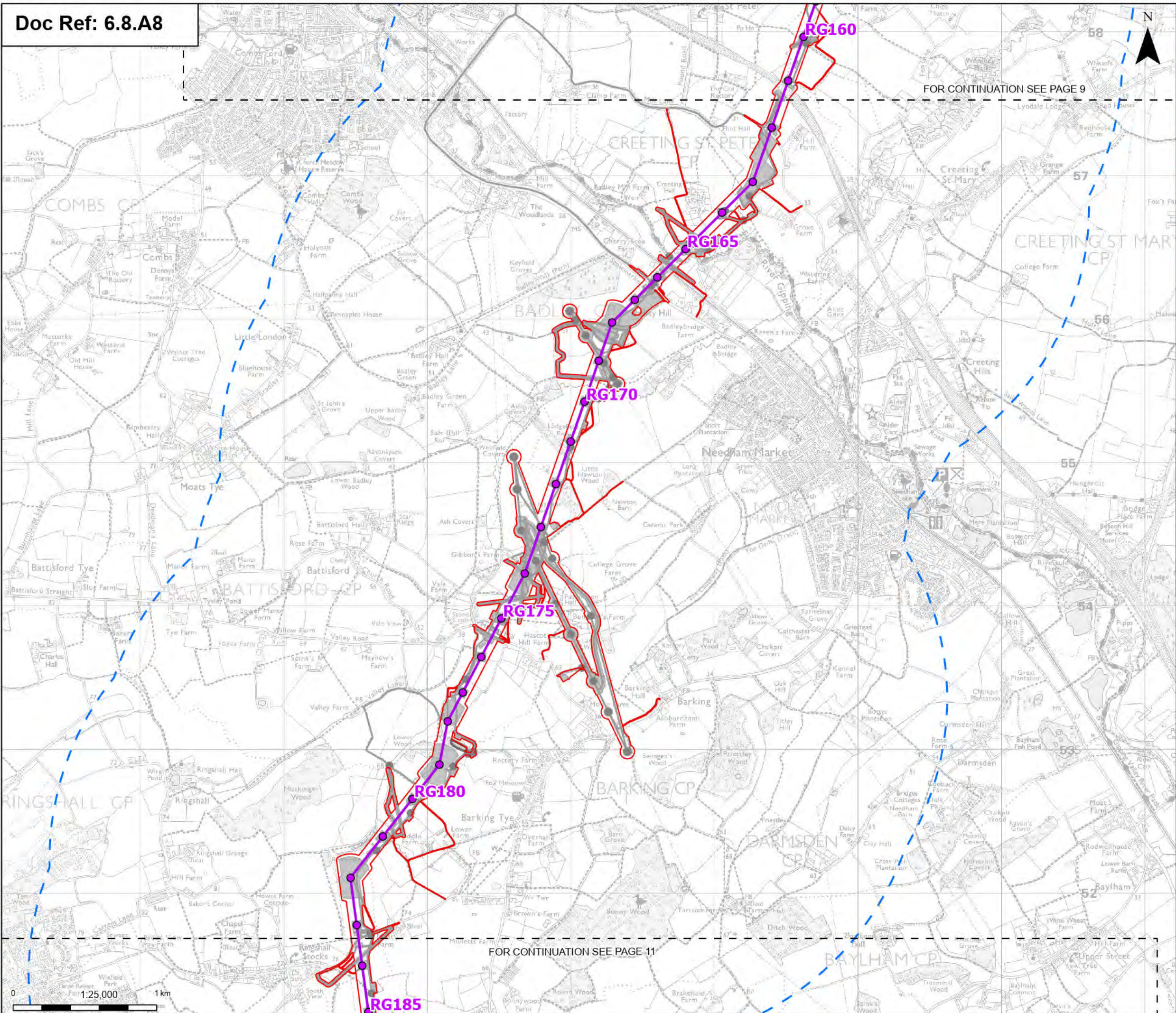
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
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Proposed project design details

- 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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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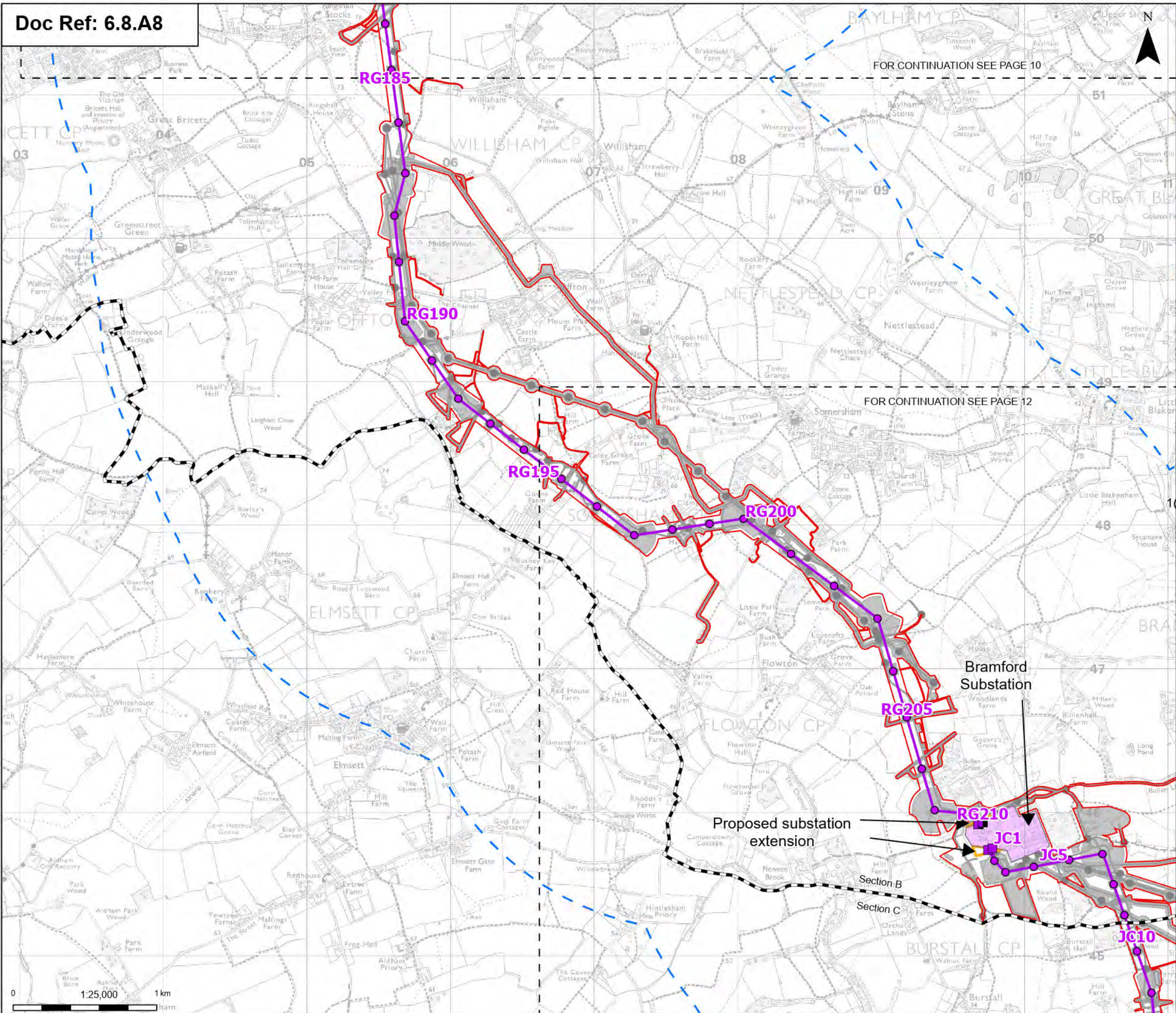
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Divers & Grebes (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
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Proposed 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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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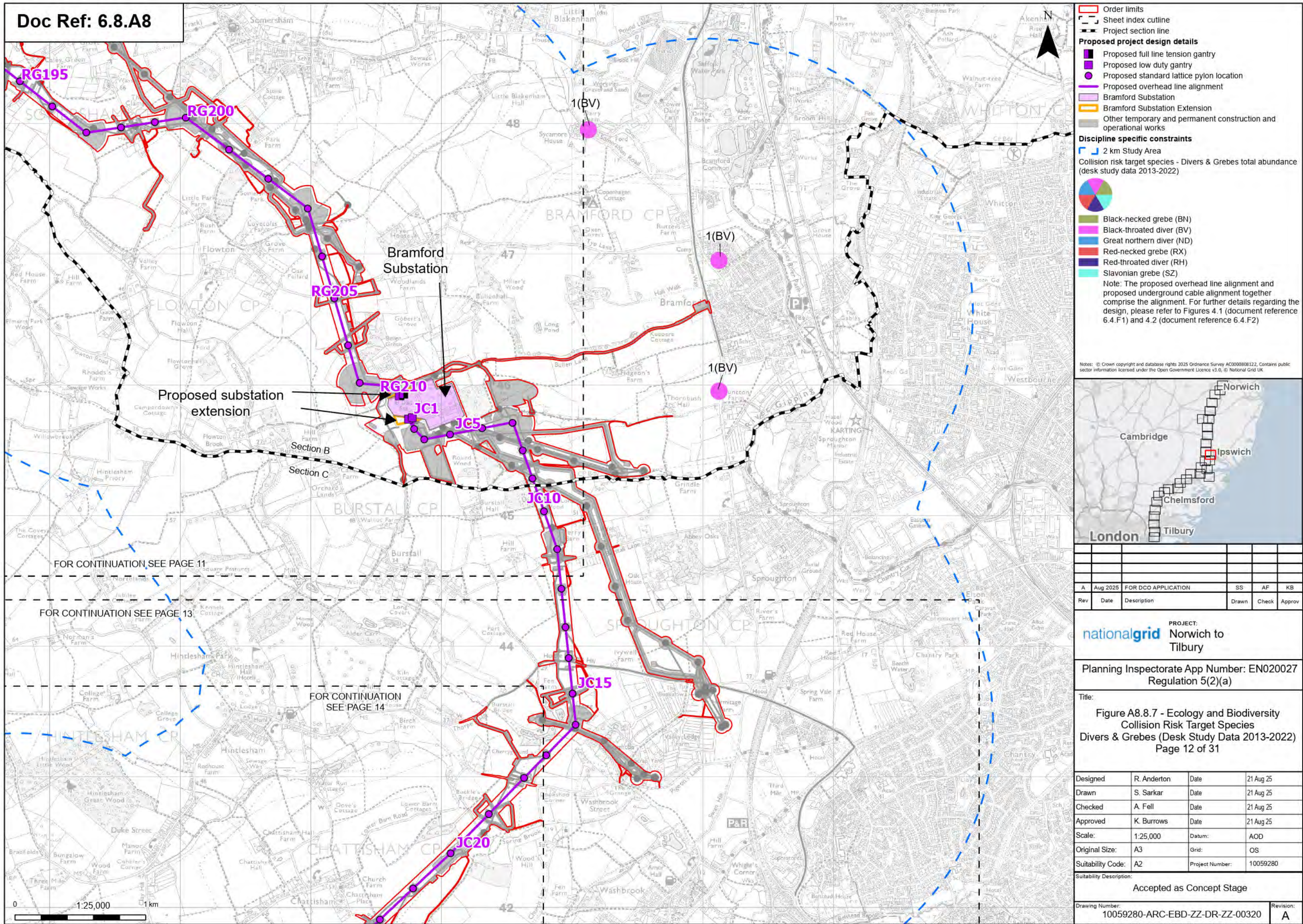
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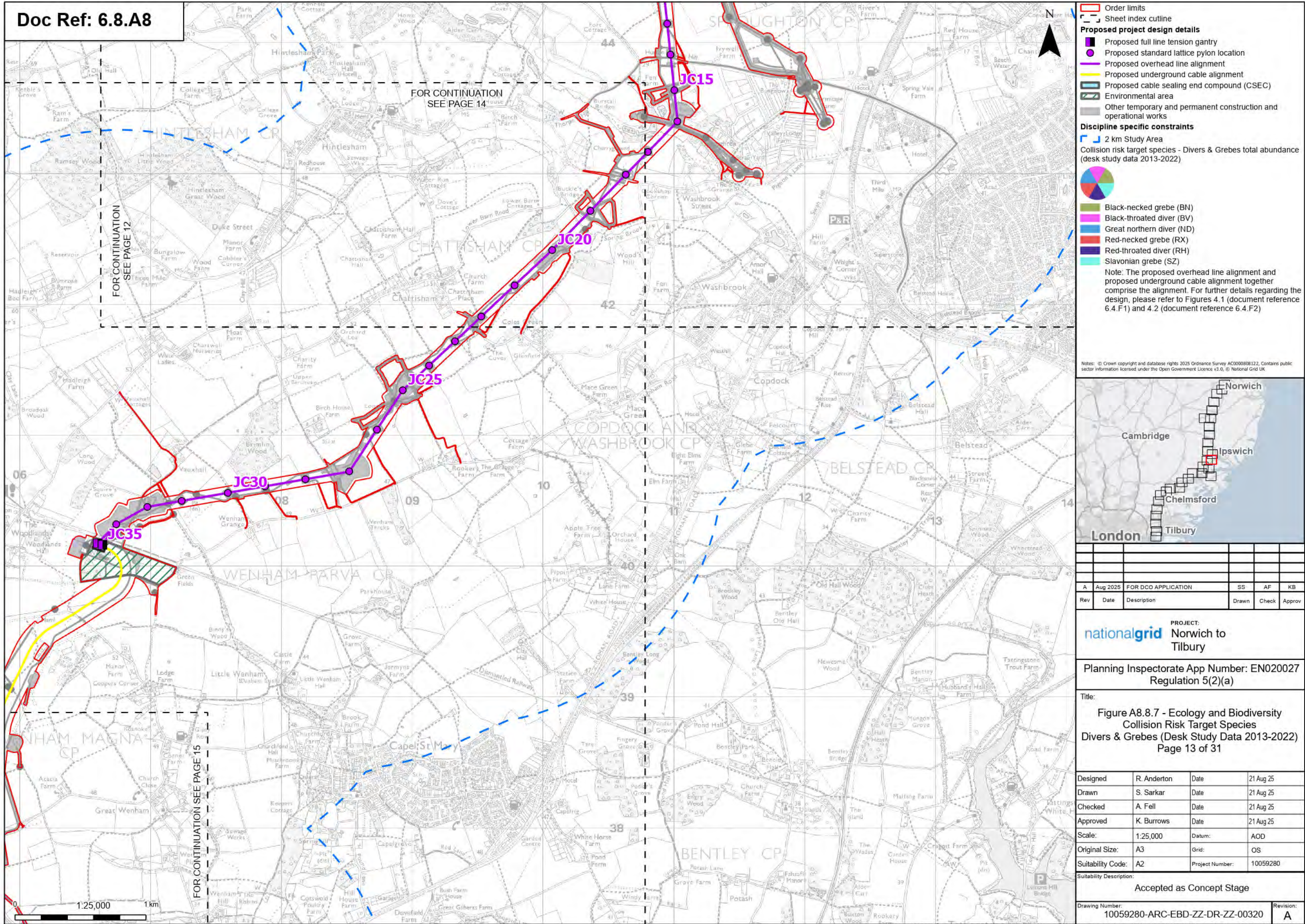
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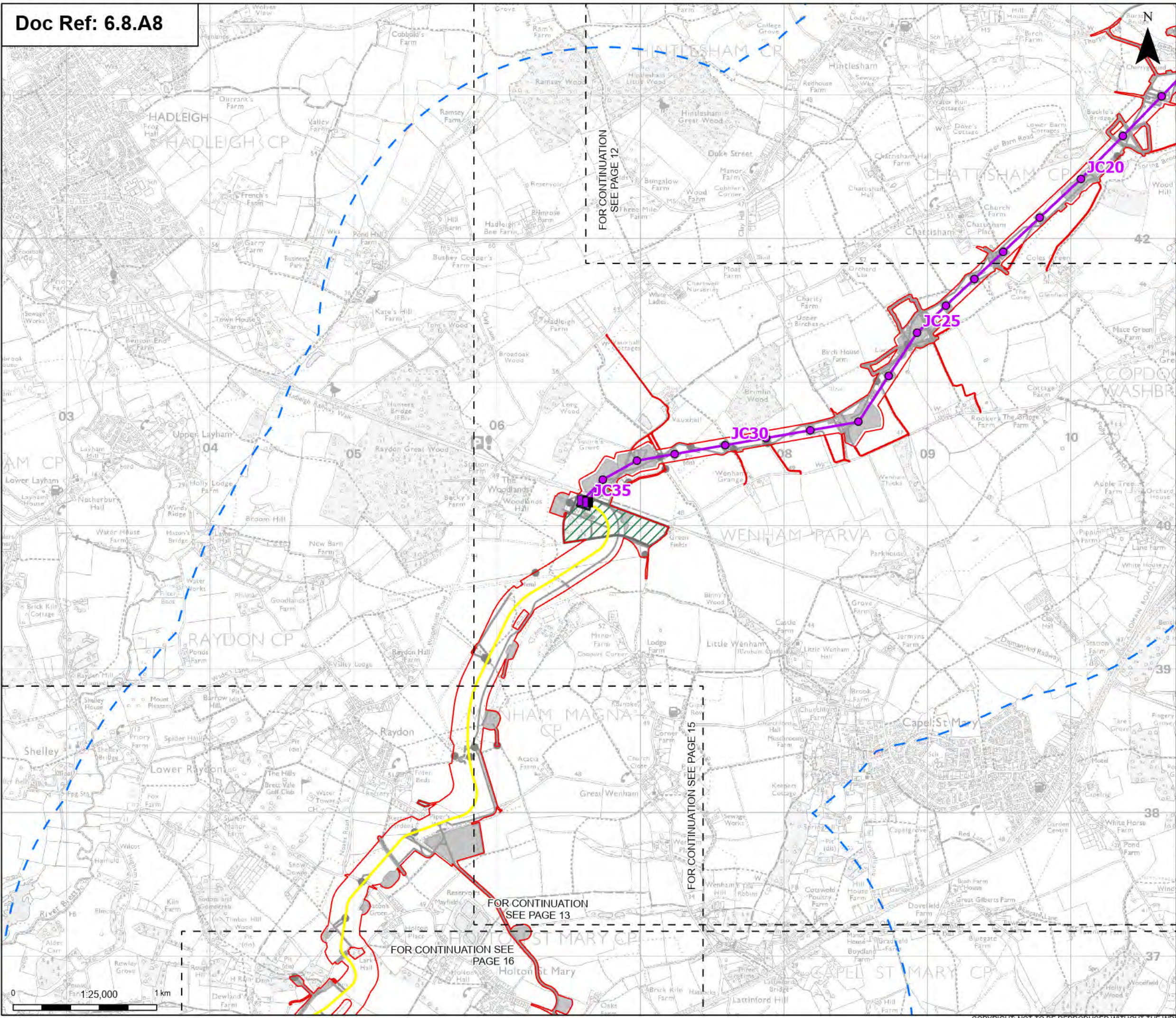
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- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
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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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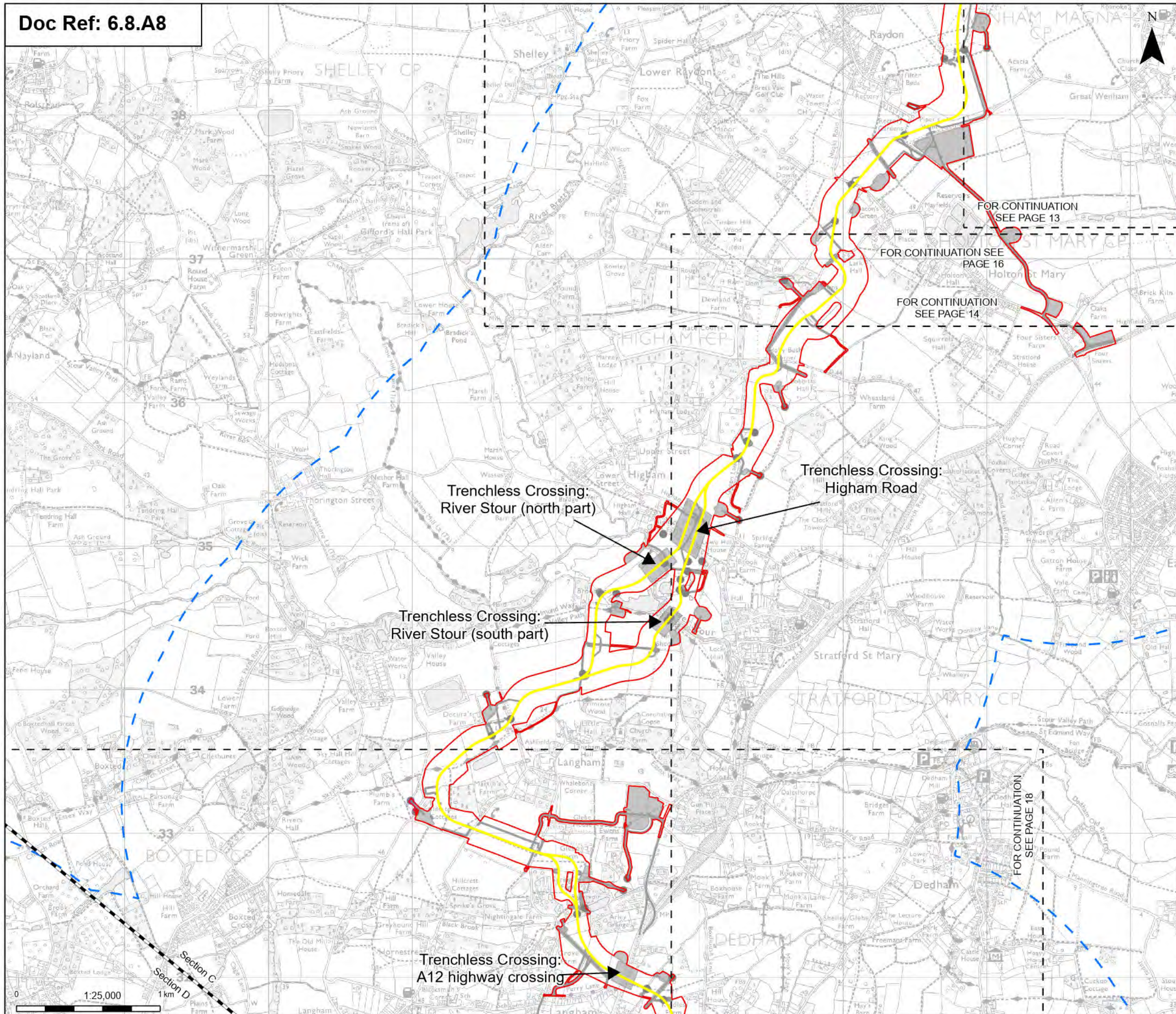
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**Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
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2 km Study Area
Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:
Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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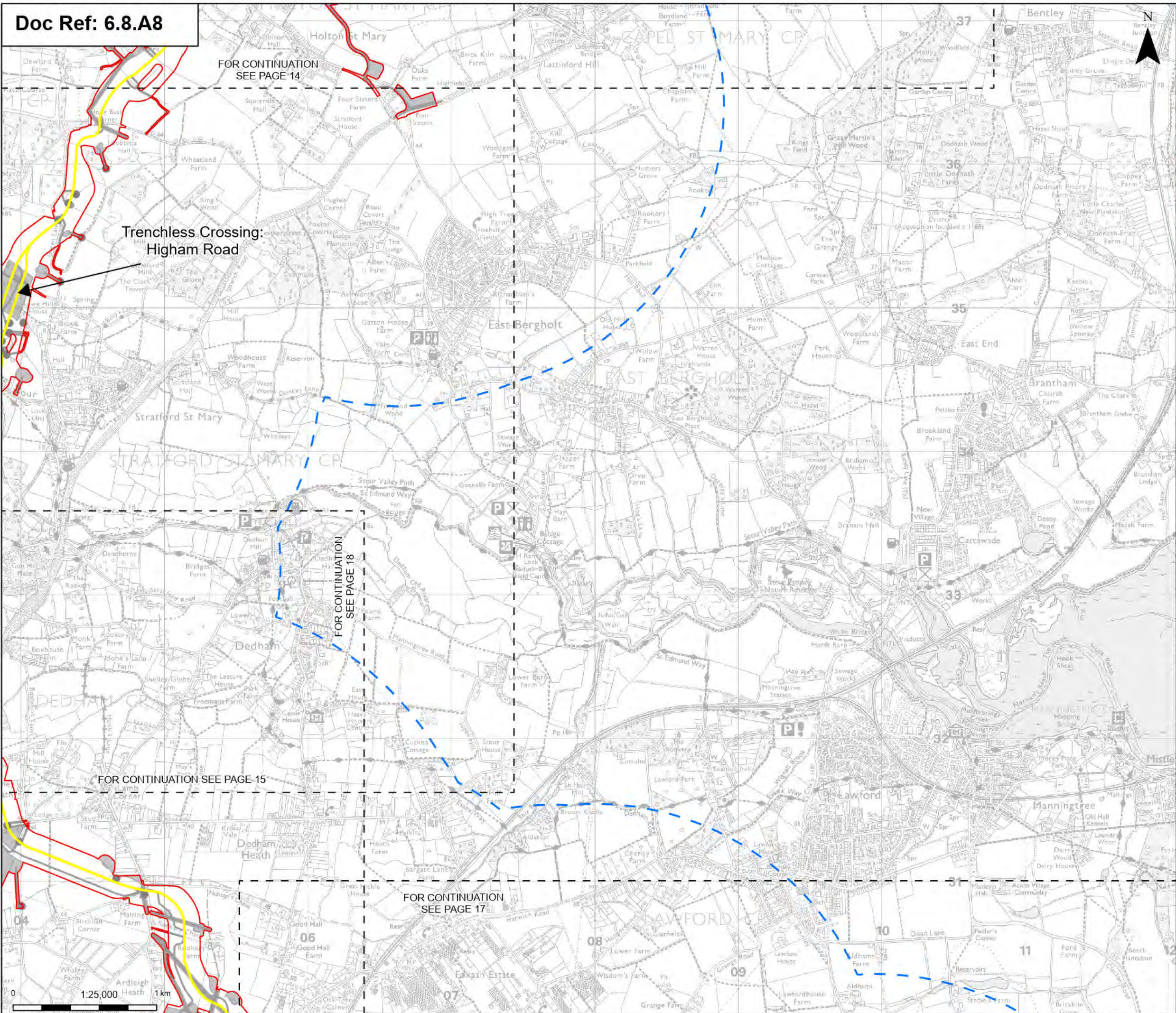
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Figure A8.8.7 - Ecology and Biodiversity
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- Proposed underground cable alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
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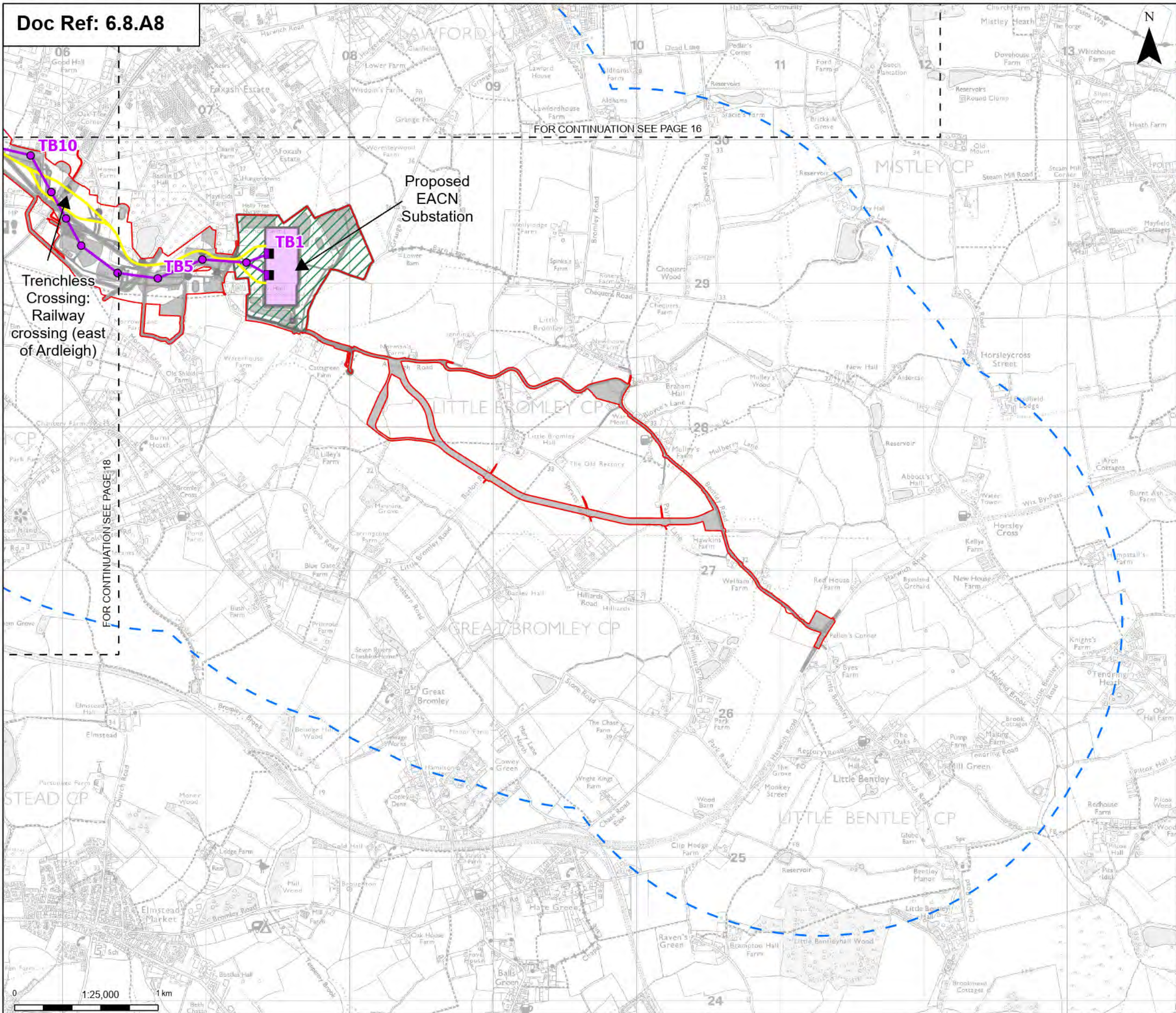
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- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed DNO Substation
- Proposed East Anglia Connection Node Substation (EACN)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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Planning Inspectorate App Number: EN020027
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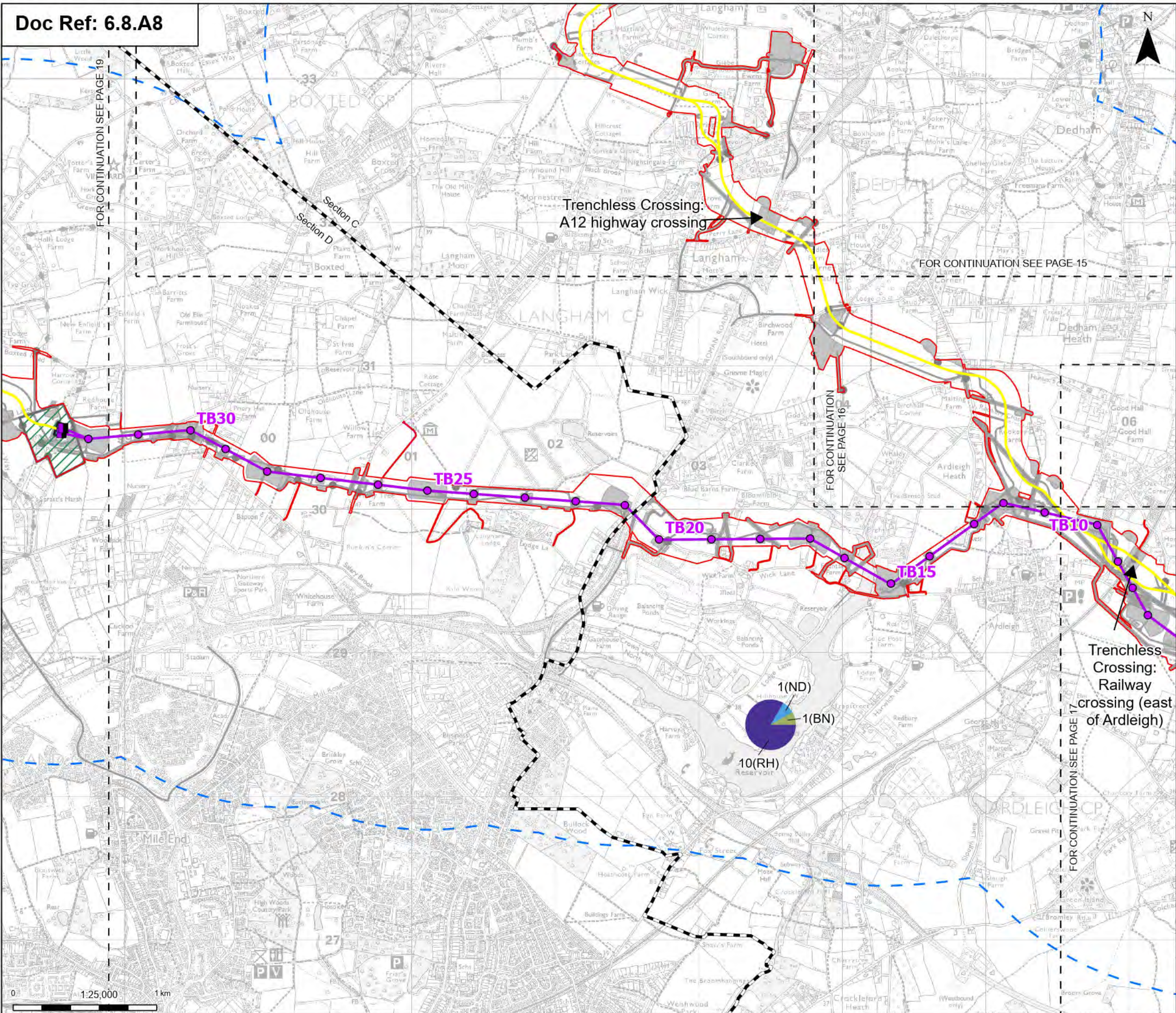
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Proposed project design details

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- 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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
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Slavonian grebe (SZ)

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)

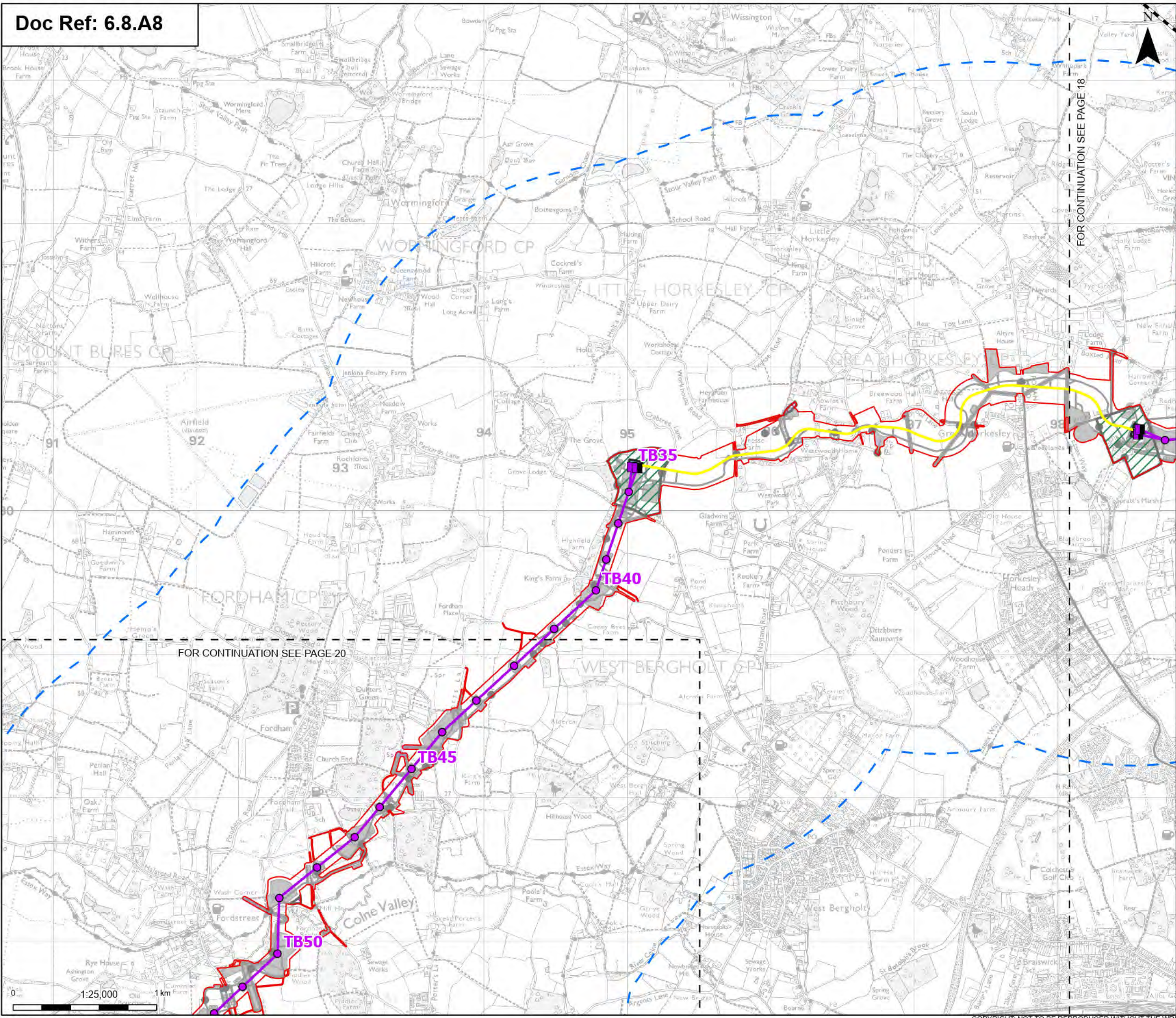
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	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:
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Revision:
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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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nationalgrid Norwich to Tilbury

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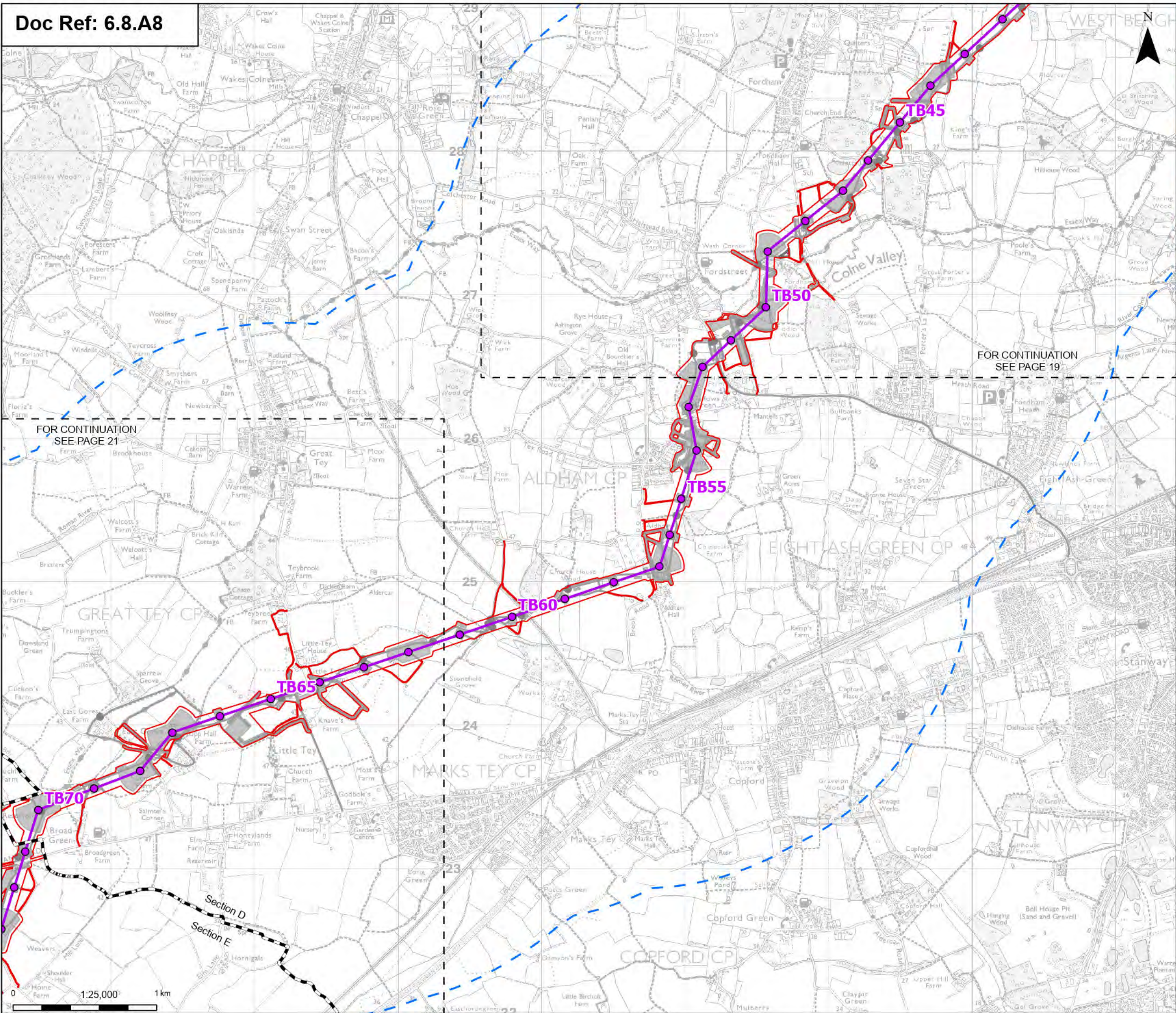
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Order limits

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Proposed project design details

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- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes 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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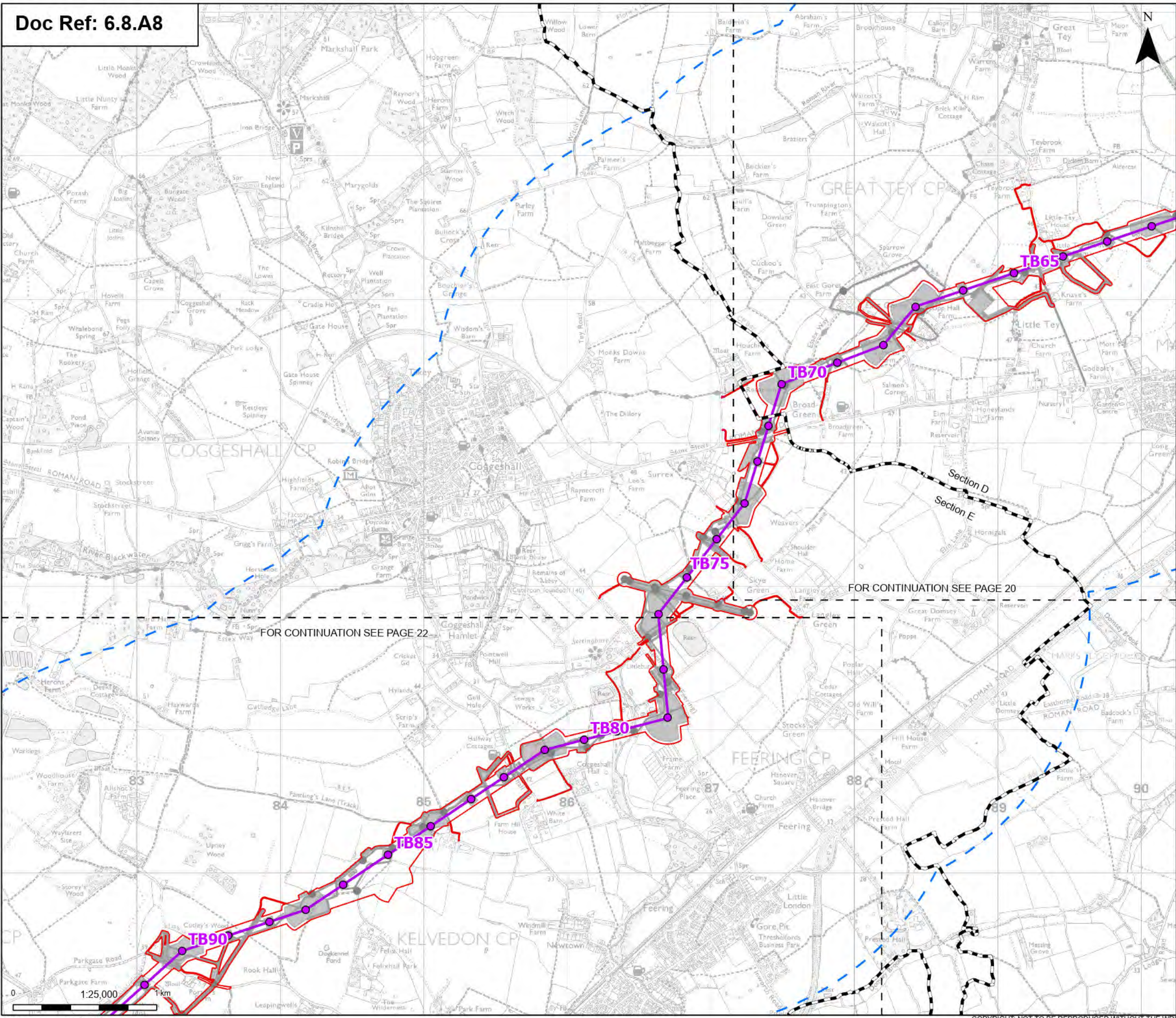
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Proposed project design details

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- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes 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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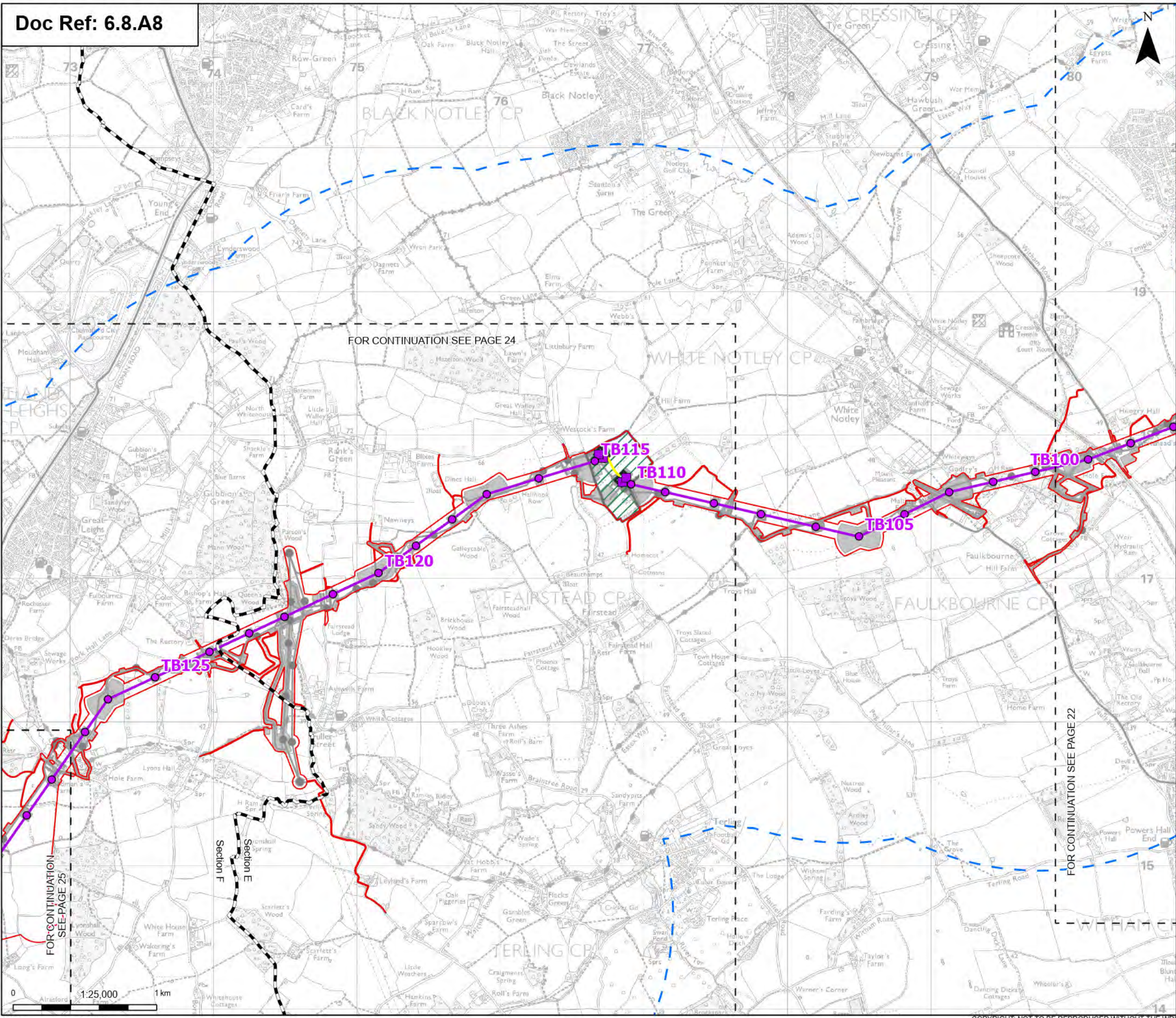
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Order limits

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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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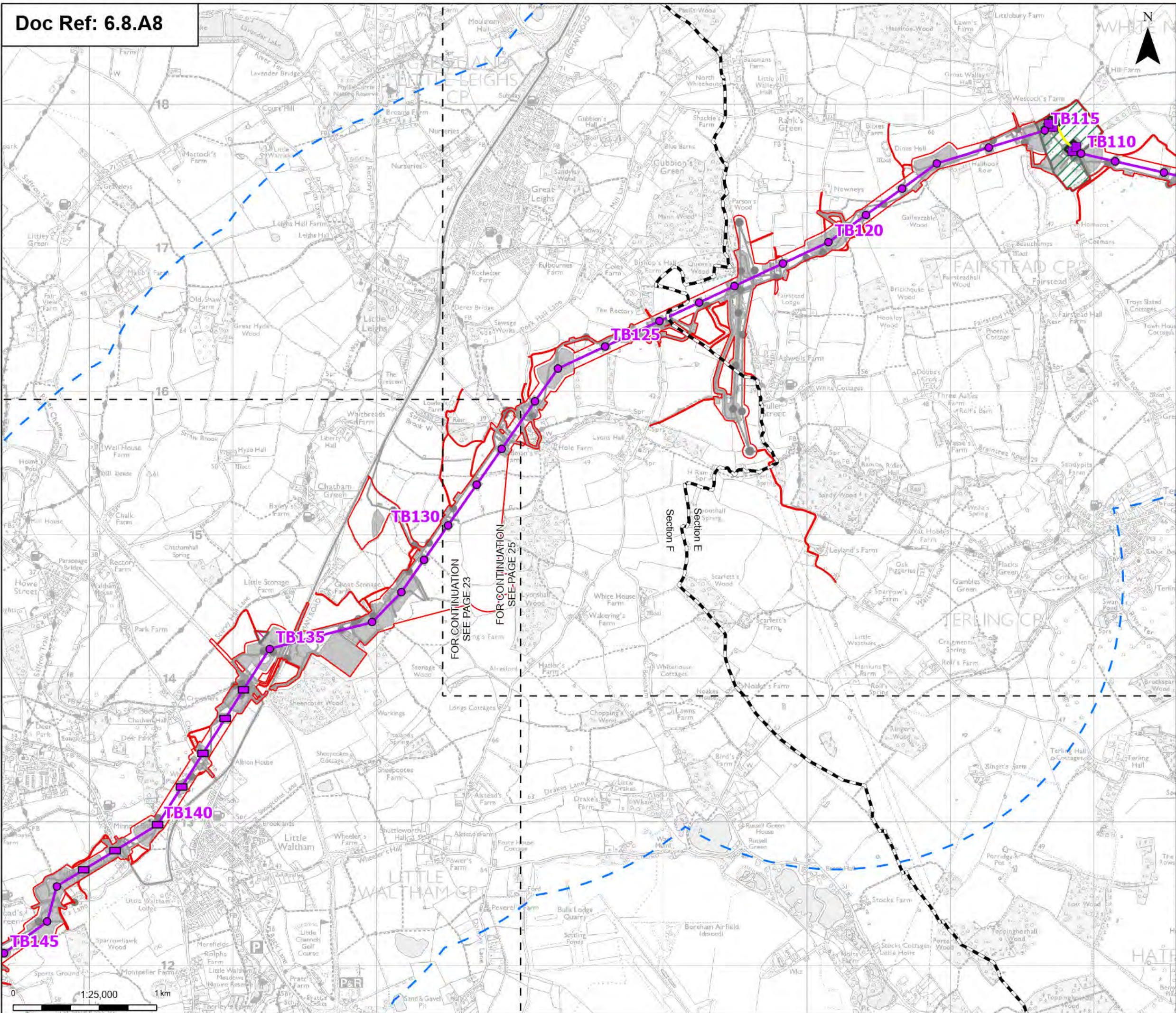
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Divers & Grebes (Desk Study Data 2013-2022)
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Order limits

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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)

Black-throated diver (BV)

Great northern diver (ND)

Red-necked grebe (RX)

Red-throated diver (RH)

Slavonian grebe (SZ)

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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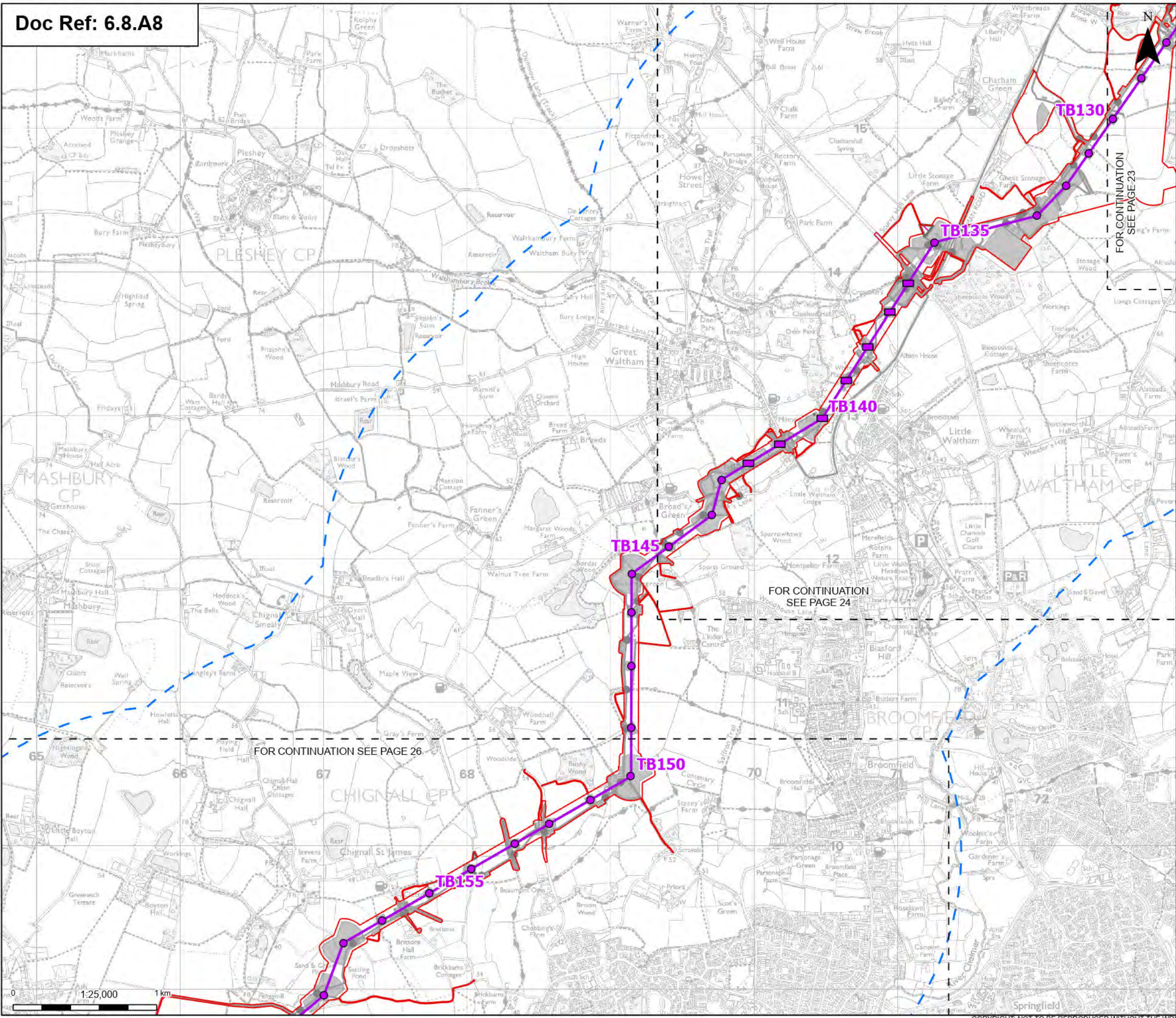
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Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Proposed low height pylon location
Proposed standard lattice pylon location
Proposed overhead line alignment
Environmental mitigation
Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area
Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Legend:
Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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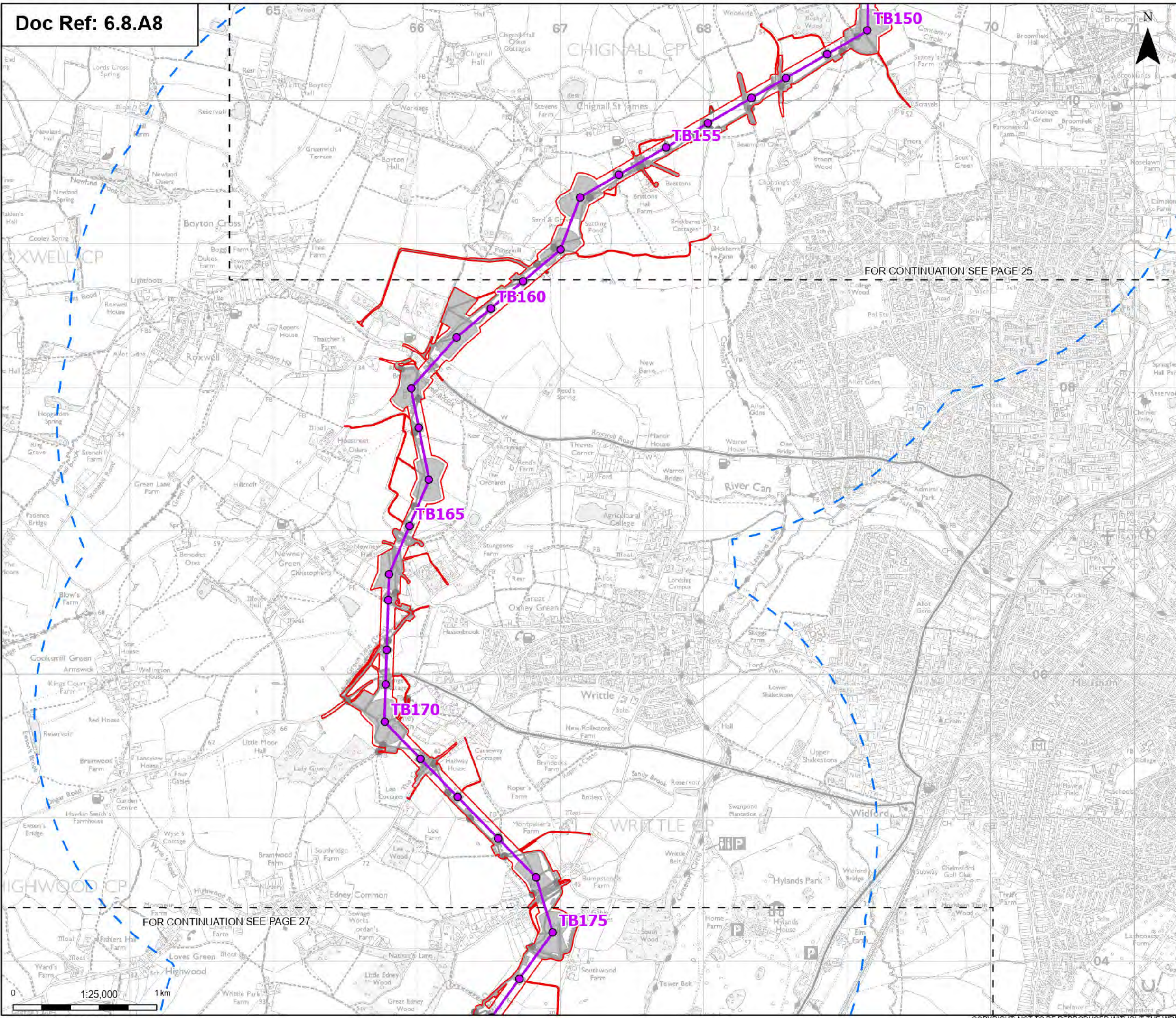
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Regulation 5(2)(a)

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Figure A8.8.7 - Ecology and Biodiversity
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Divers & Grebes (Desk Study Data 2013-2022)
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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
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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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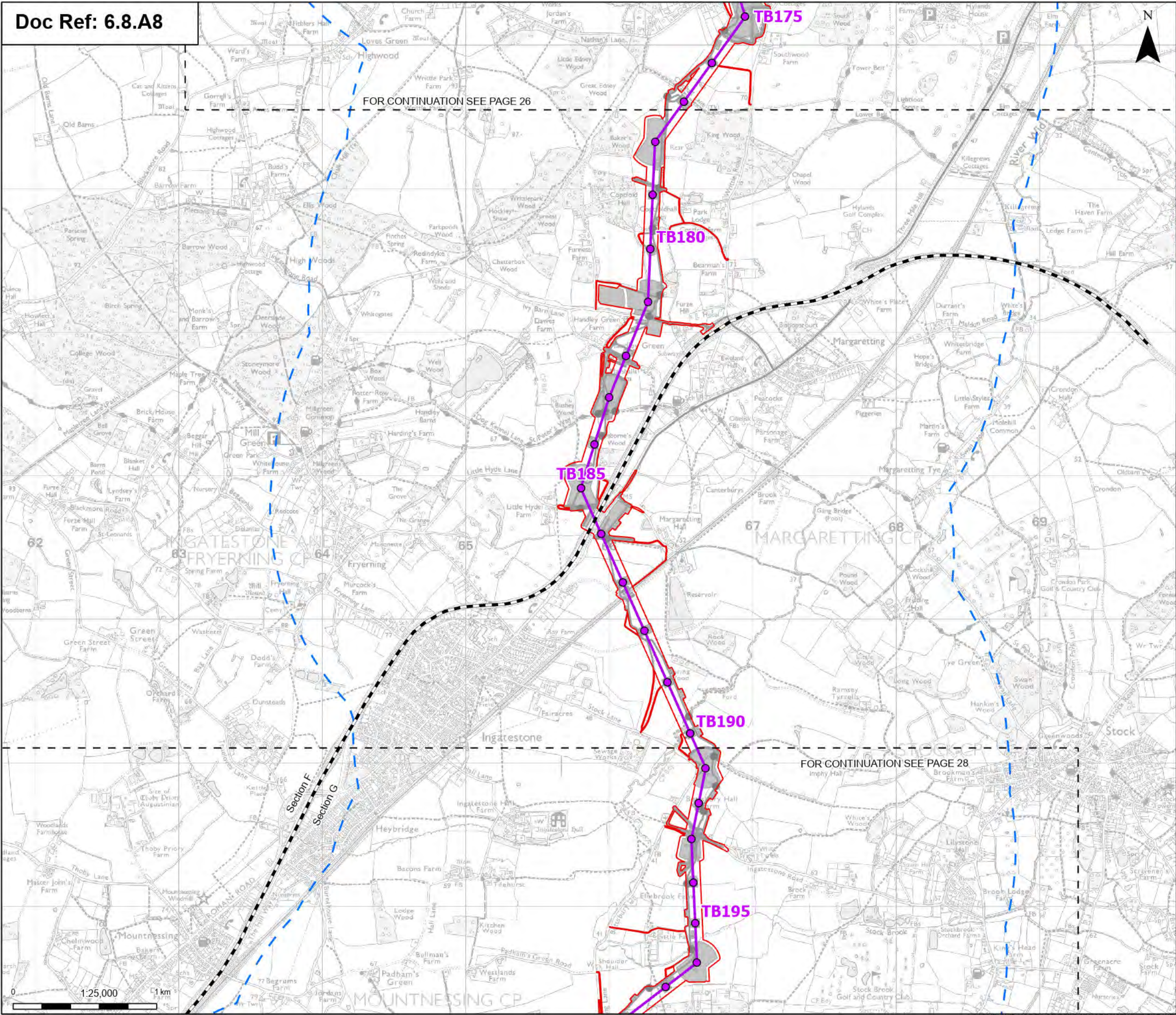
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
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Order 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 target species - Divers & Grebes 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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Tilbury

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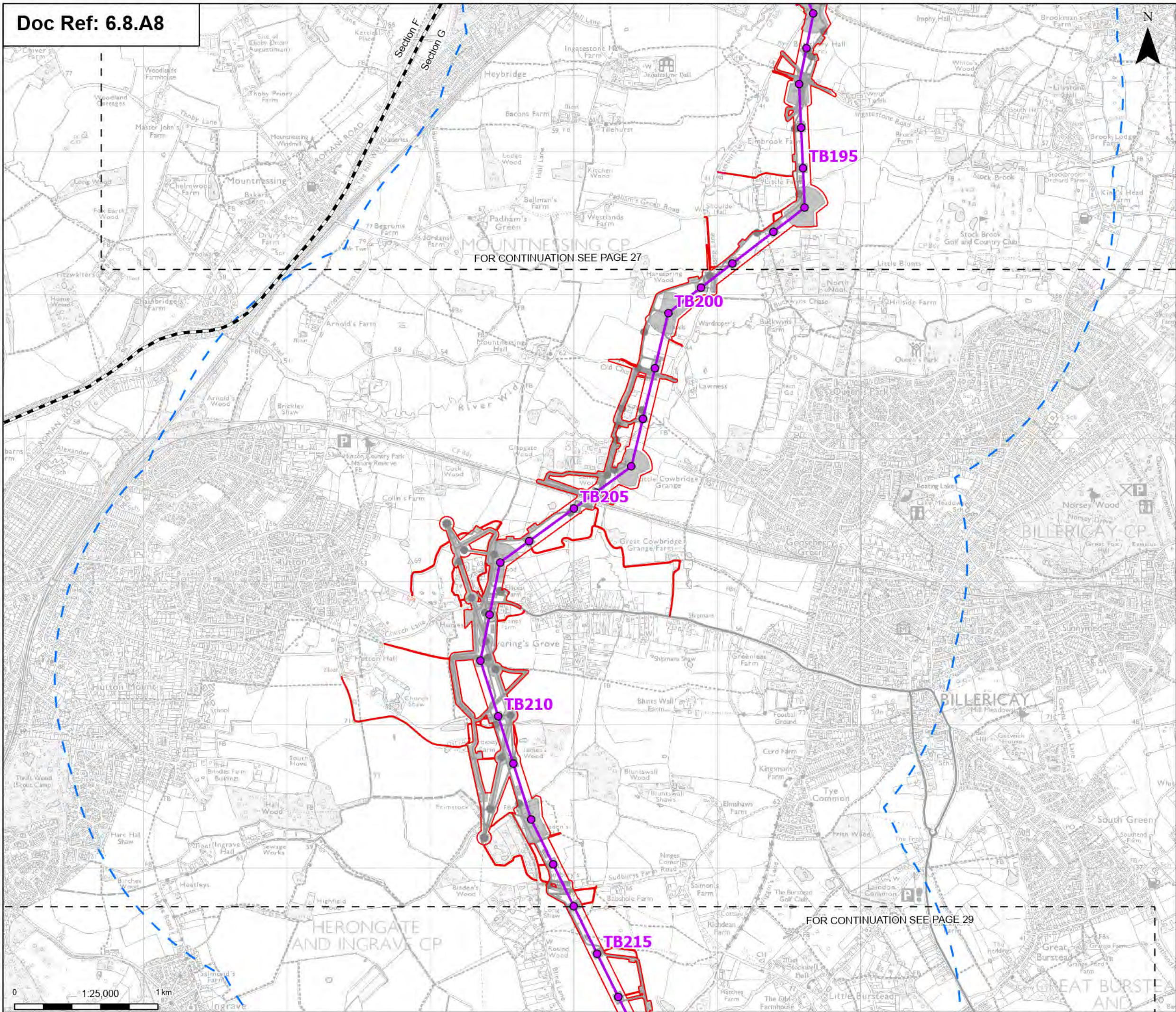
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Collision Risk Target Species
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Designed	R. Anderton	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	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
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)
Black-throated diver (BV)
Great northern diver (ND)
Red-necked grebe (RX)
Red-throated diver (RH)
Slavonian grebe (SZ)

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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Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

2 km Study Area

Collision risk target species - Divers & Grebes total abundance (desk study data 2013-2022)

Black-necked grebe (BN)

Black-throated diver (BV)

Great northern diver (ND)

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Red-throated diver (RH)

Slavonian grebe (SZ)

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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Title:

Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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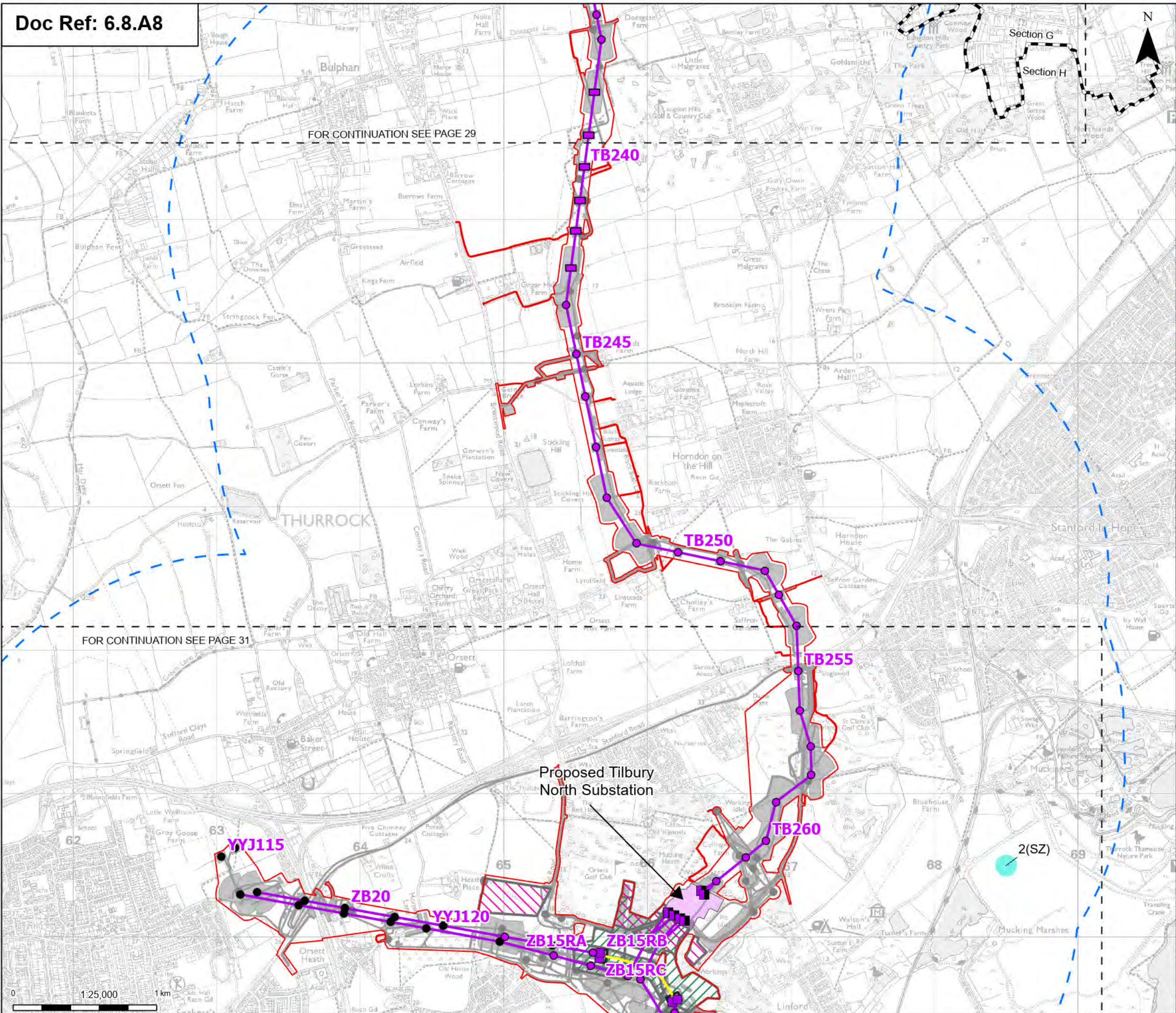
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Proposed project design details

- 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 target species - Divers & Grebes 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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Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

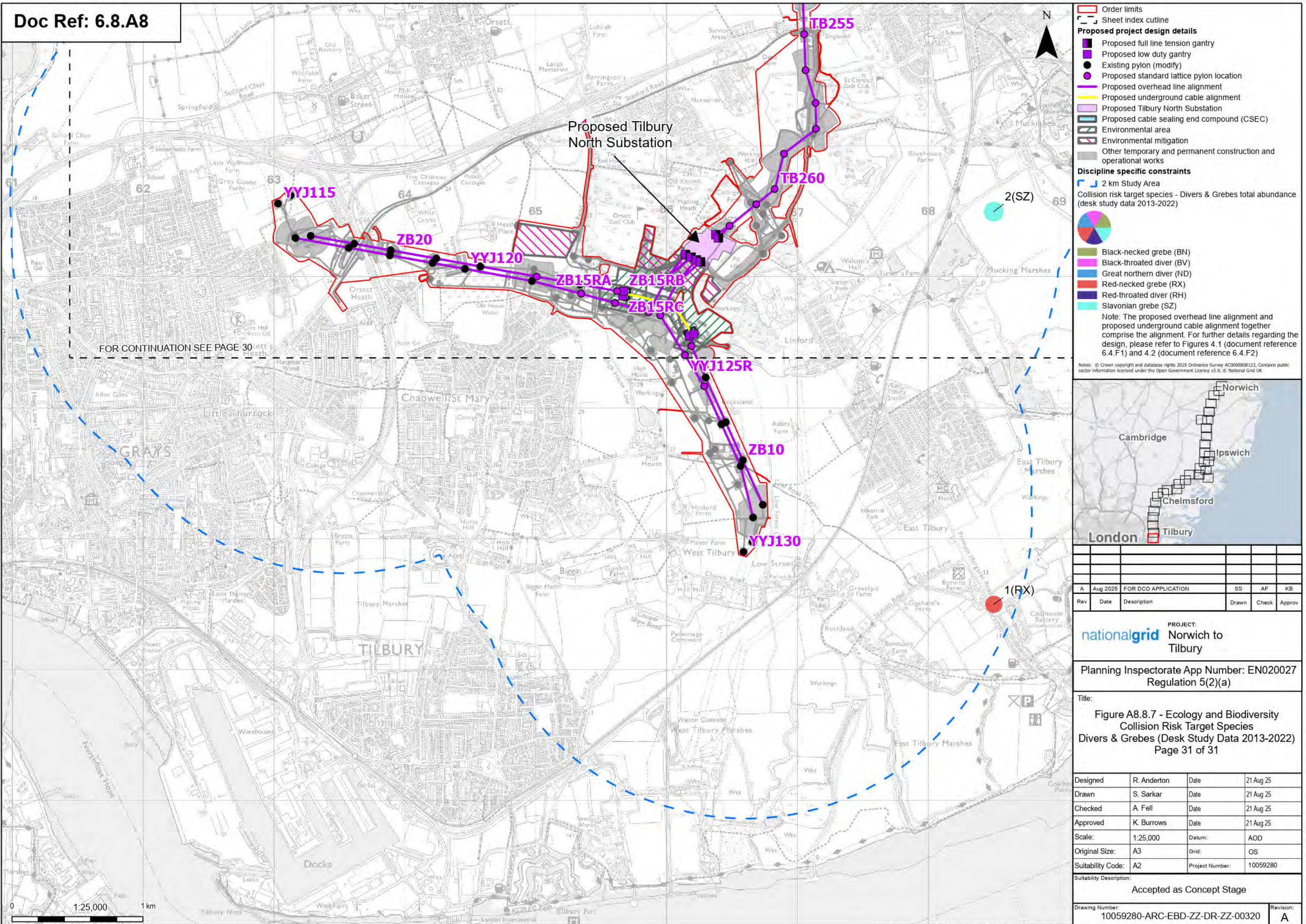
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Divers & Grebes (Desk Study Data 2013-2022)
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Accepted as Concept Stage

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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 target species - Divers & Grebes total abundance (desk study data 2013-2022)

- Black-necked grebe (BN)
- Black-throated diver (BV)
- Great northern diver (ND)
- Red-necked grebe (RX)
- Red-throated diver (RH)
- Slavonian grebe (SZ)

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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Tilbury

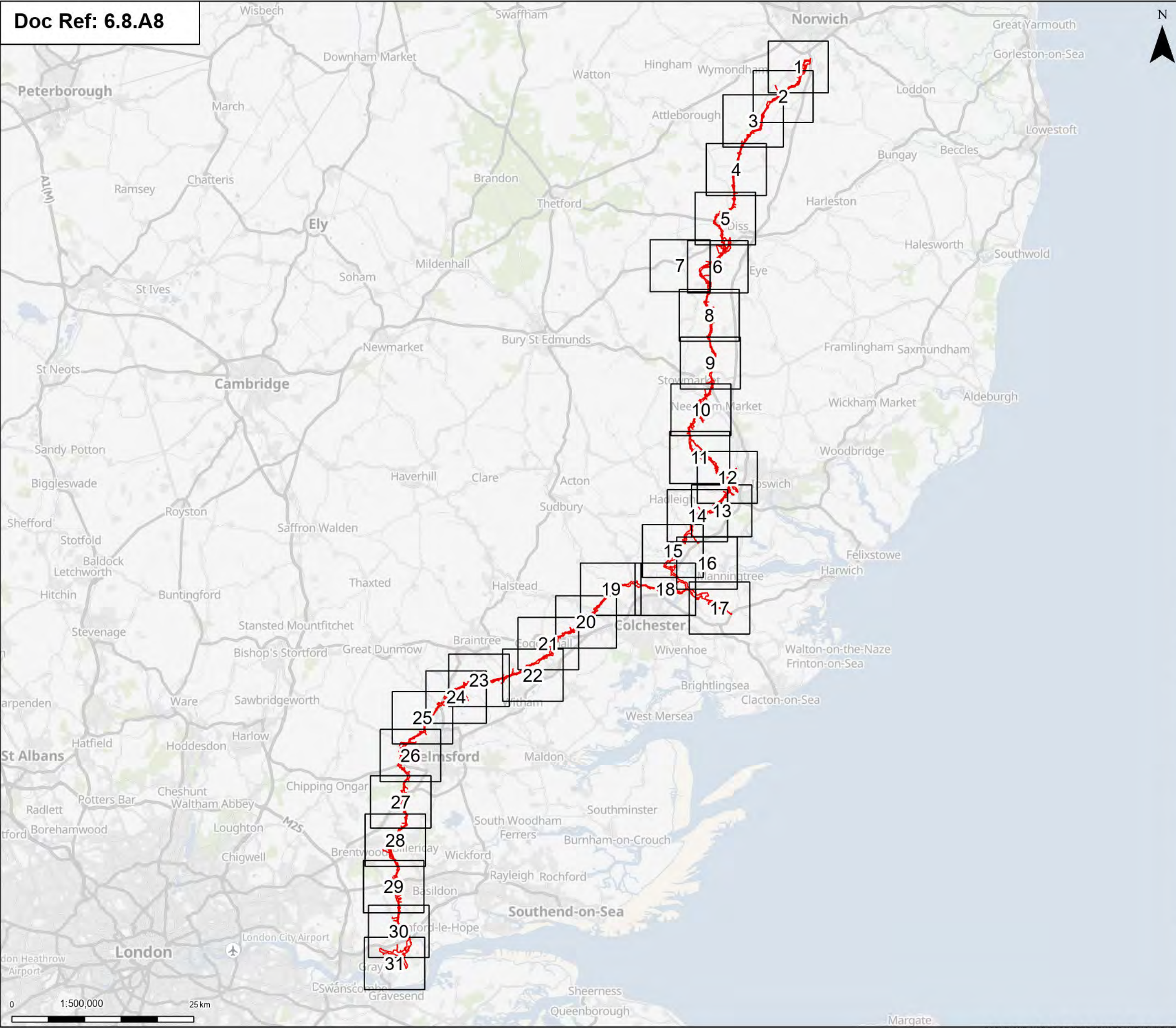
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Figure A8.8.7 - Ecology and Biodiversity
Collision Risk Target Species
Divers & Grebes (Desk Study Data 2013-2022)
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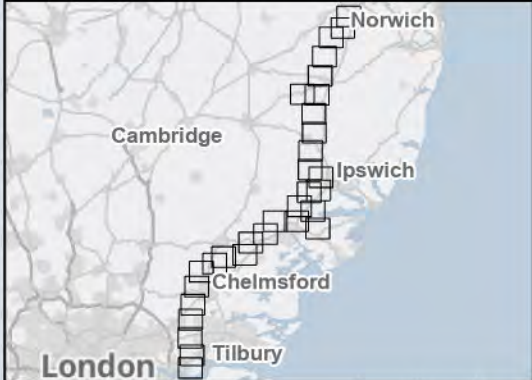
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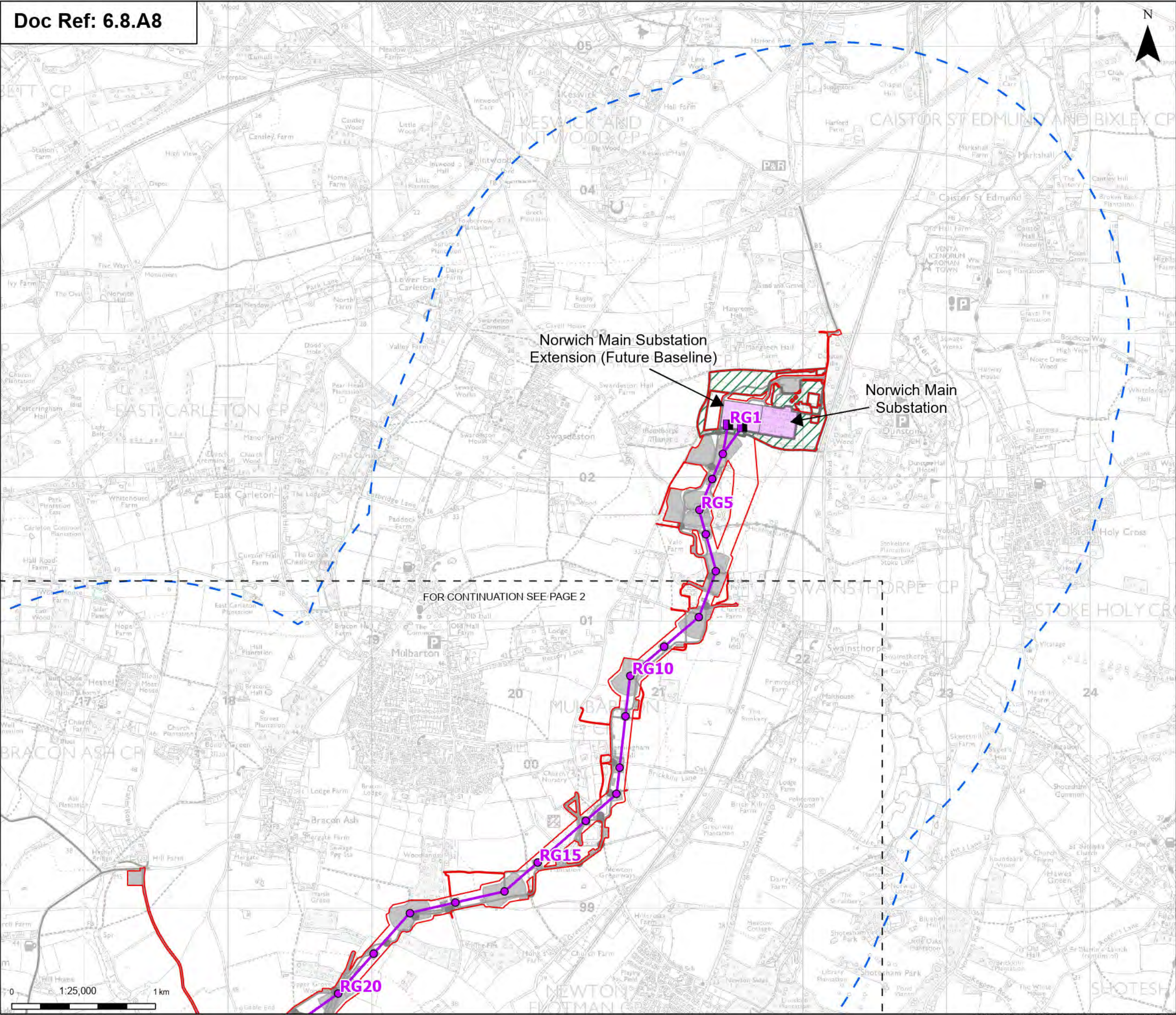
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Regulation 5(2)(a)

Title:
Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
Overview

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:	1:500,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

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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

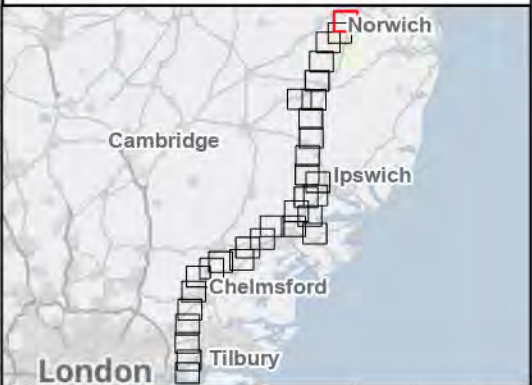
- 2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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:
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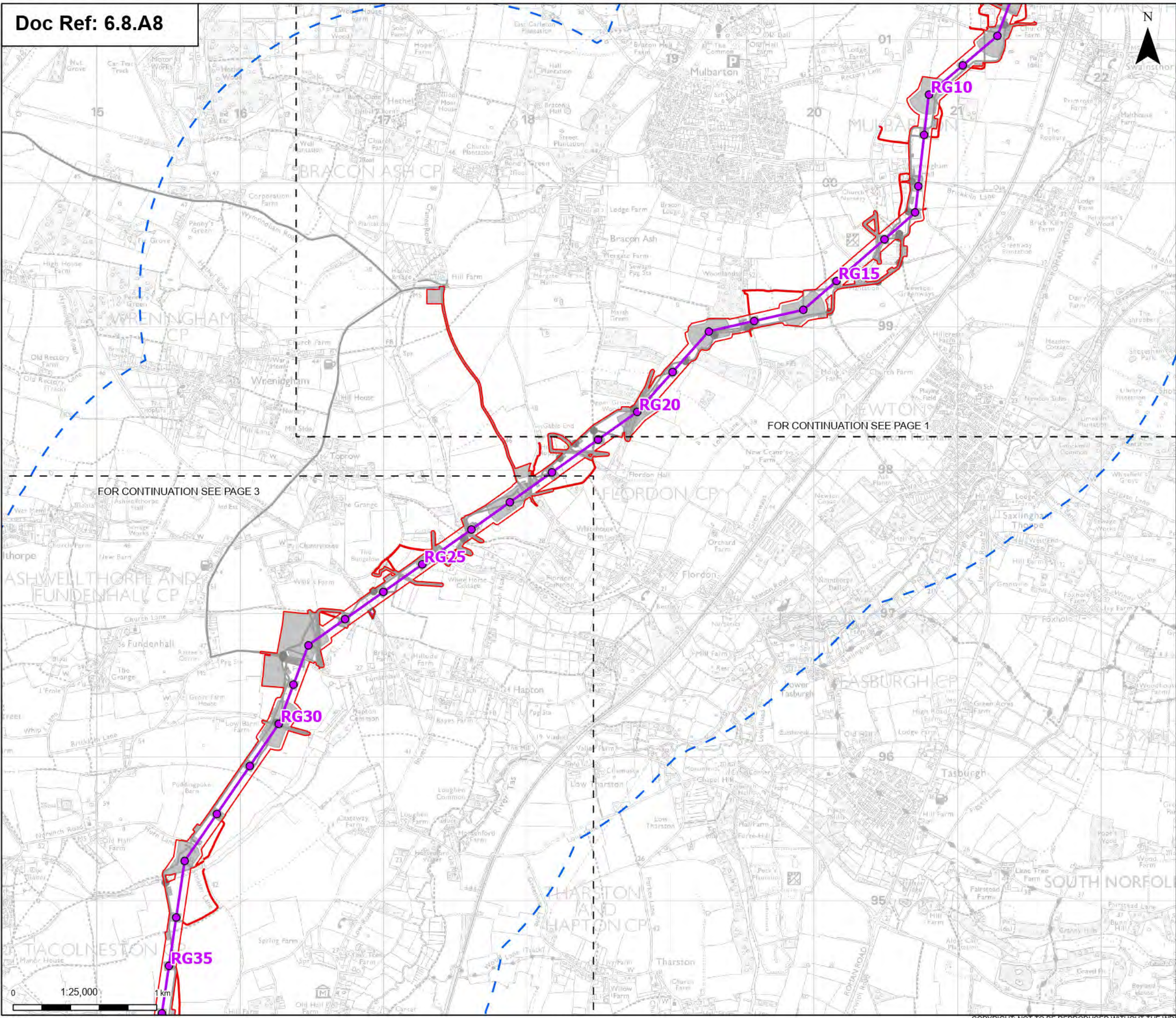
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Figure A8.8.8 - Ecology and Biodiversity
Collision Risk Target Species
Gulls & Terns (Desk Study Data 2013-2022)
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Other temporary and permanent construction and operational works

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2 km Study Area

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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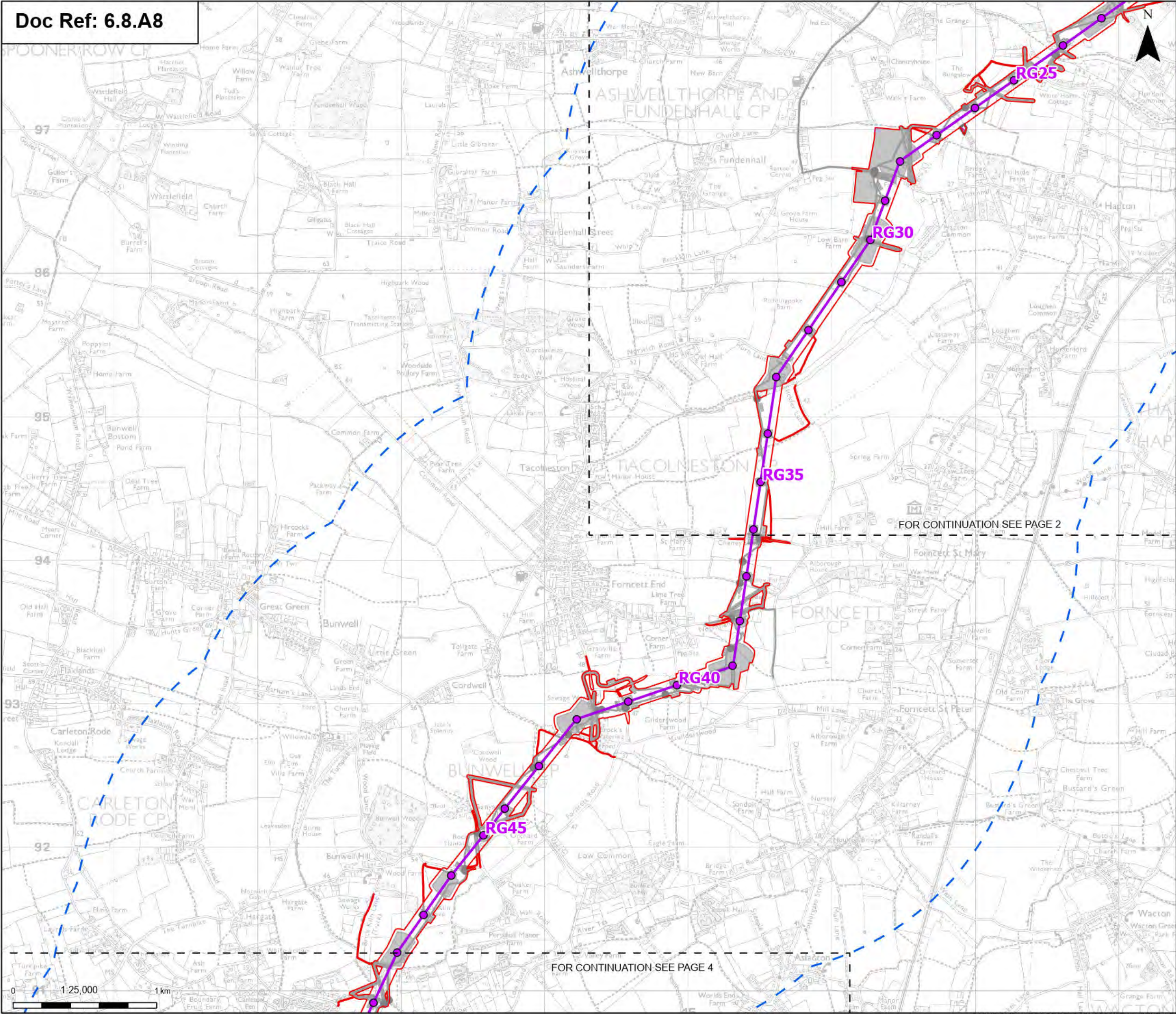
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Title:
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Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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Suitability Description:
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Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

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Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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PROJECT:
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Regulation 5(2)(a)

Title:
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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

Suitability Description:
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Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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:
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Title:
Figure A8.8.8 - Ecology and Biodiversity
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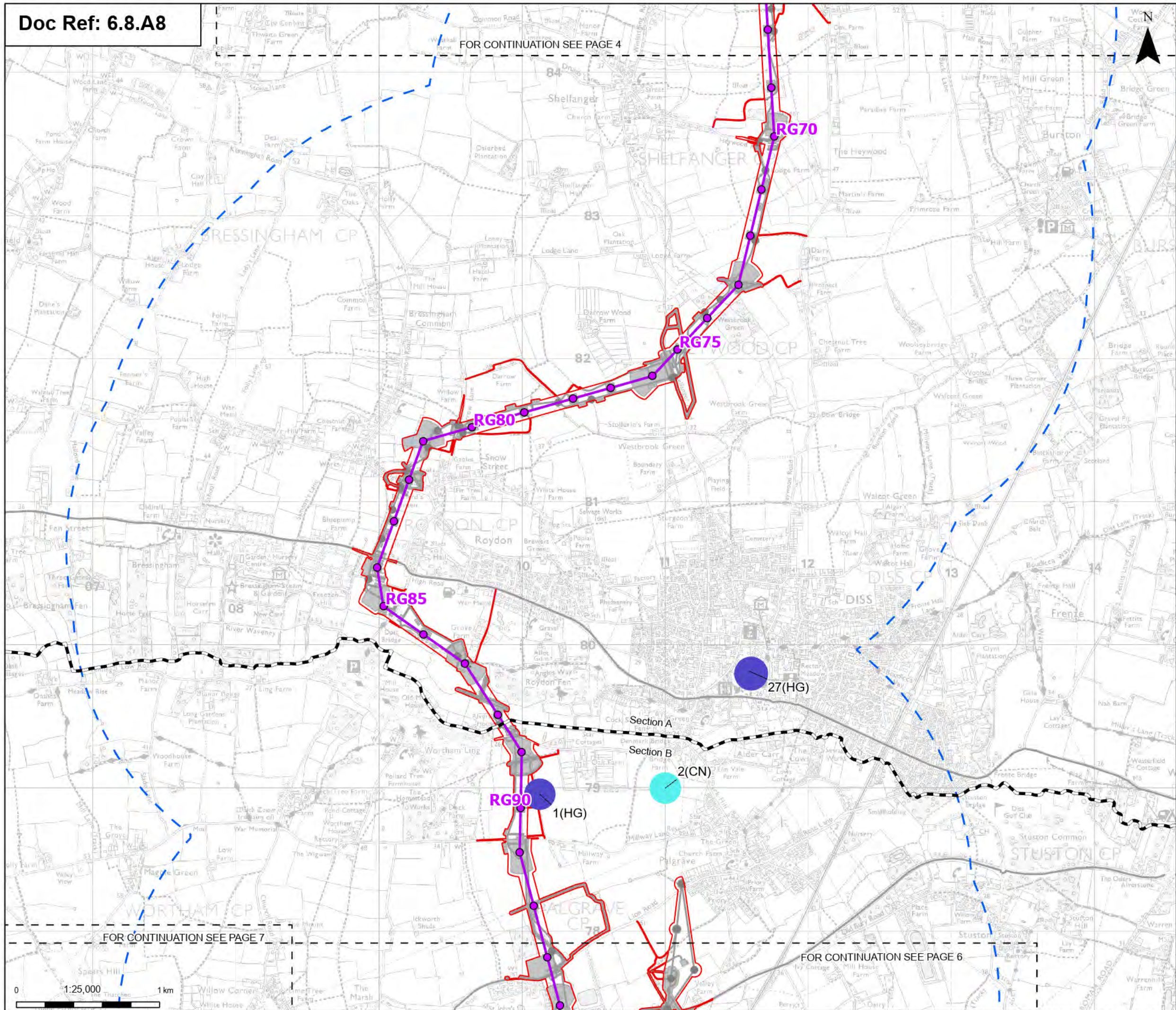
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00321
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Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

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Mediterranean gull (MU)

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PROJECT:
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Tilbury

Planning Inspectorate App Number: EN020027
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Scale:	1:25,000	Datum:	AOD
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Suitability Description:
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2 km Study Area

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

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PROJECT:
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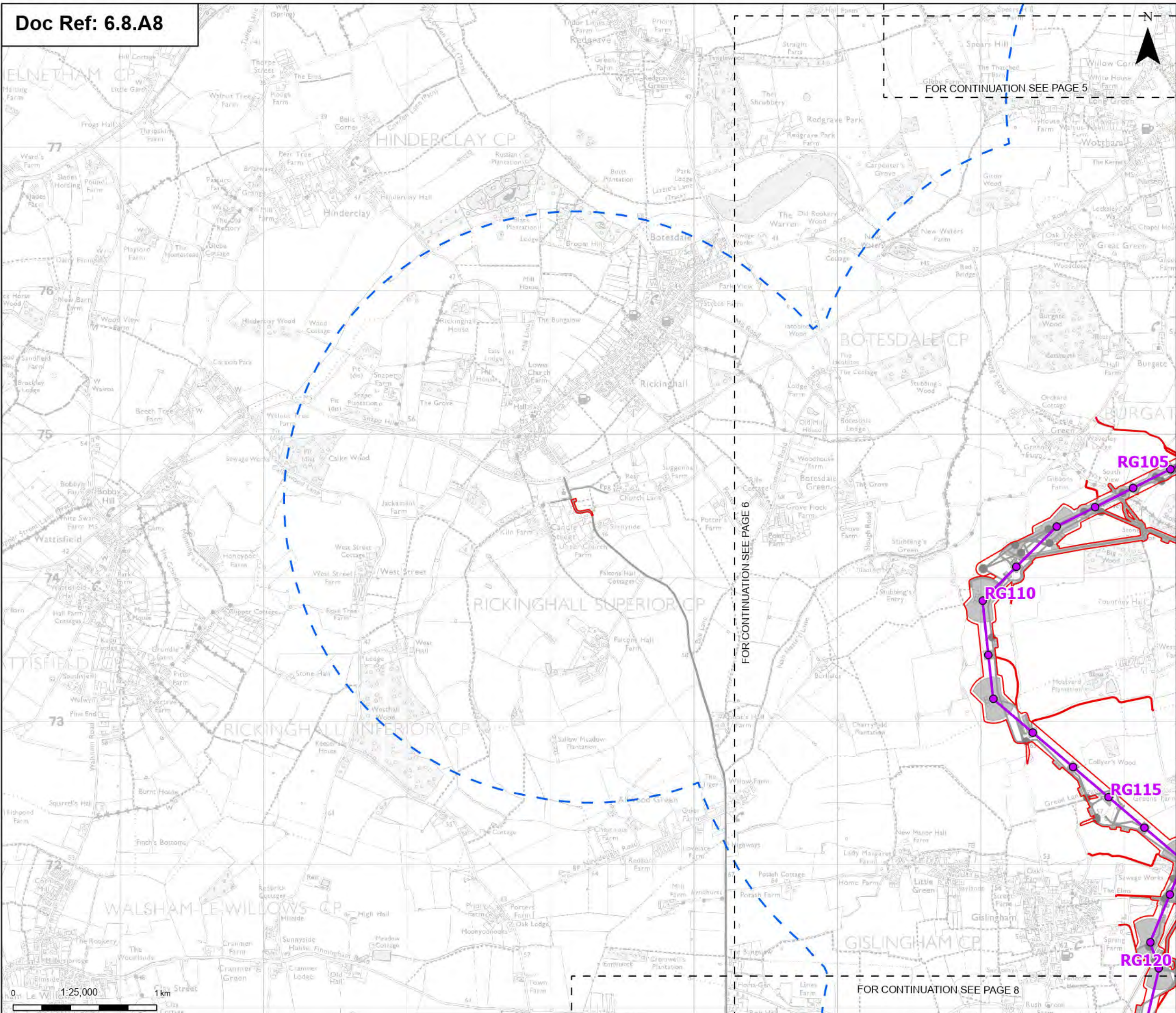
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Suitability Code:	A2	Project Number:	10059280

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Accepted as Concept Stage

Drawing Number:
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Proposed standard lattice pylon location

Proposed overhead line alignment

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2 km Study Area

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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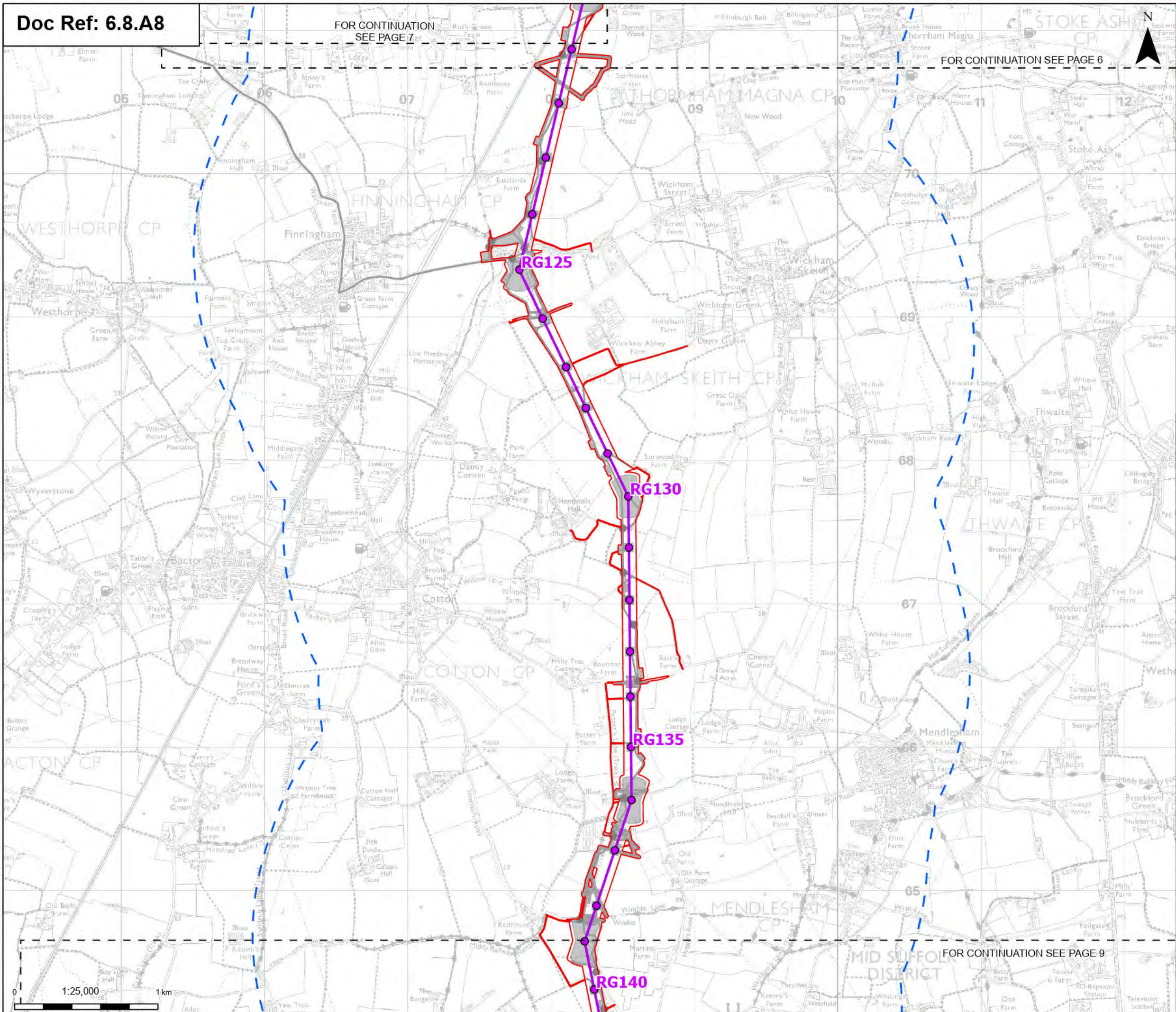
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Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280

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Discipline specific constraints

2 km Study Area

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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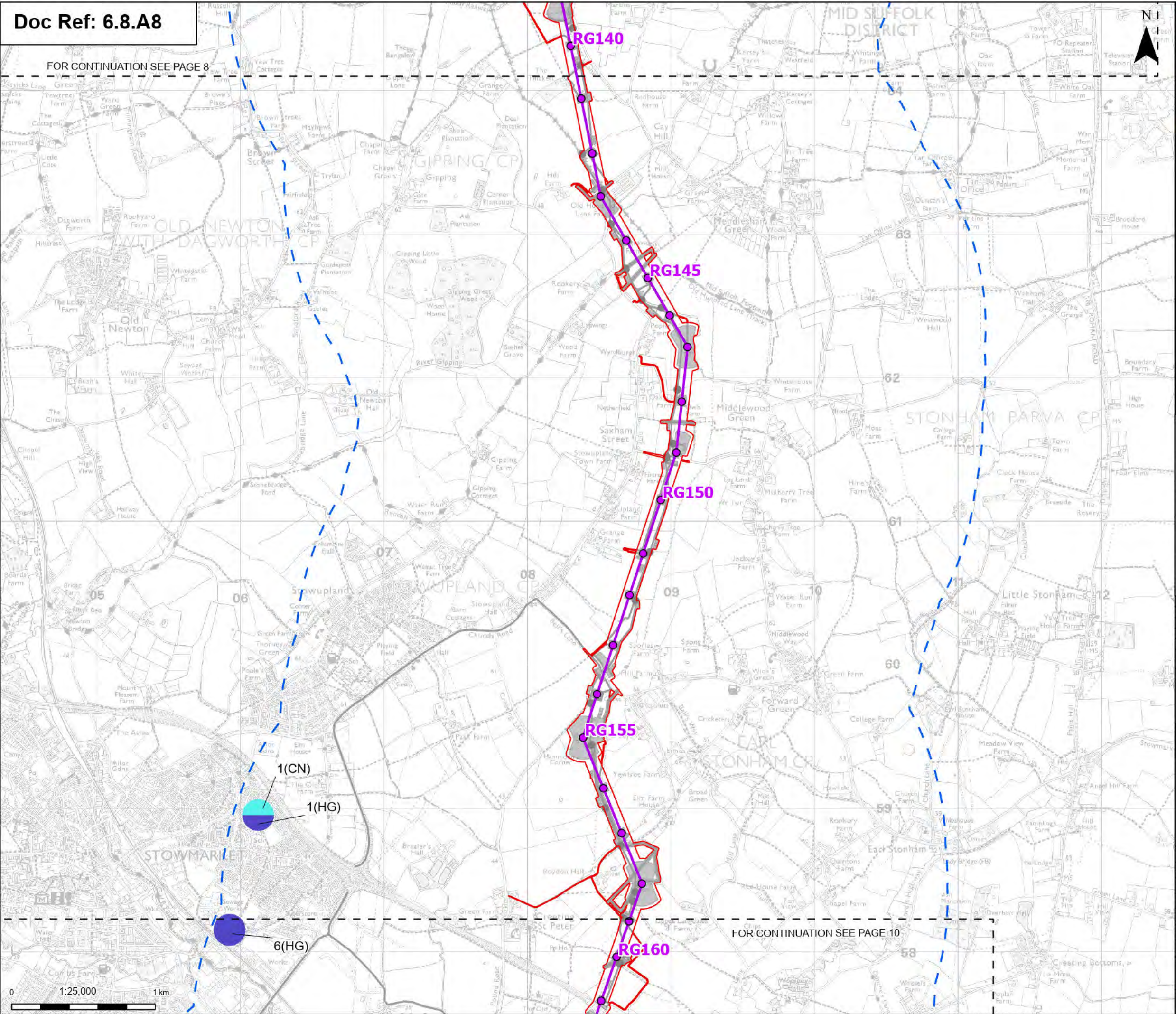
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Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

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2 km Study Area

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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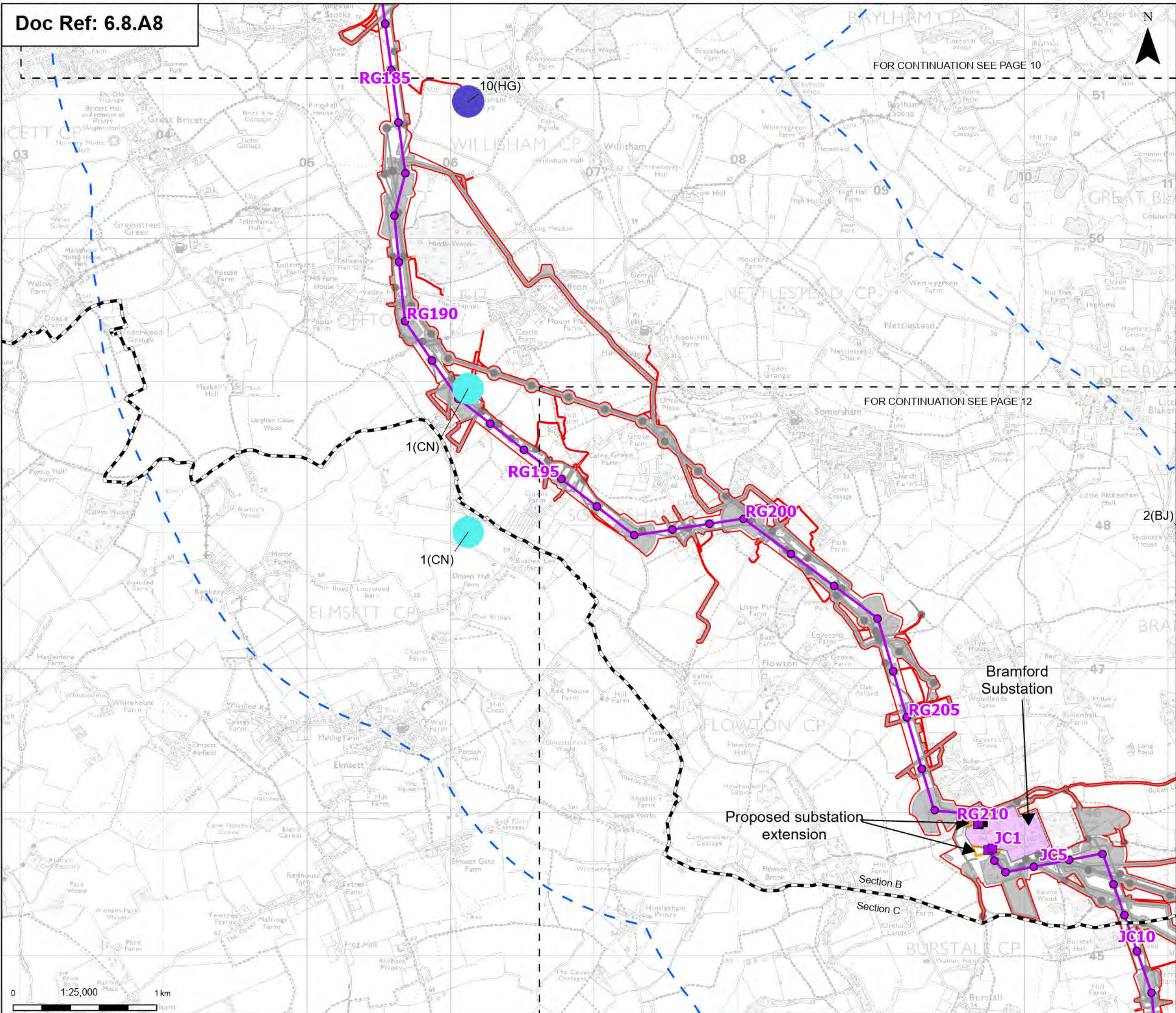
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Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
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Suitability Description:
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- Proposed low duty gantry
- Proposed standard lattice pylon location
- 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 target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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:
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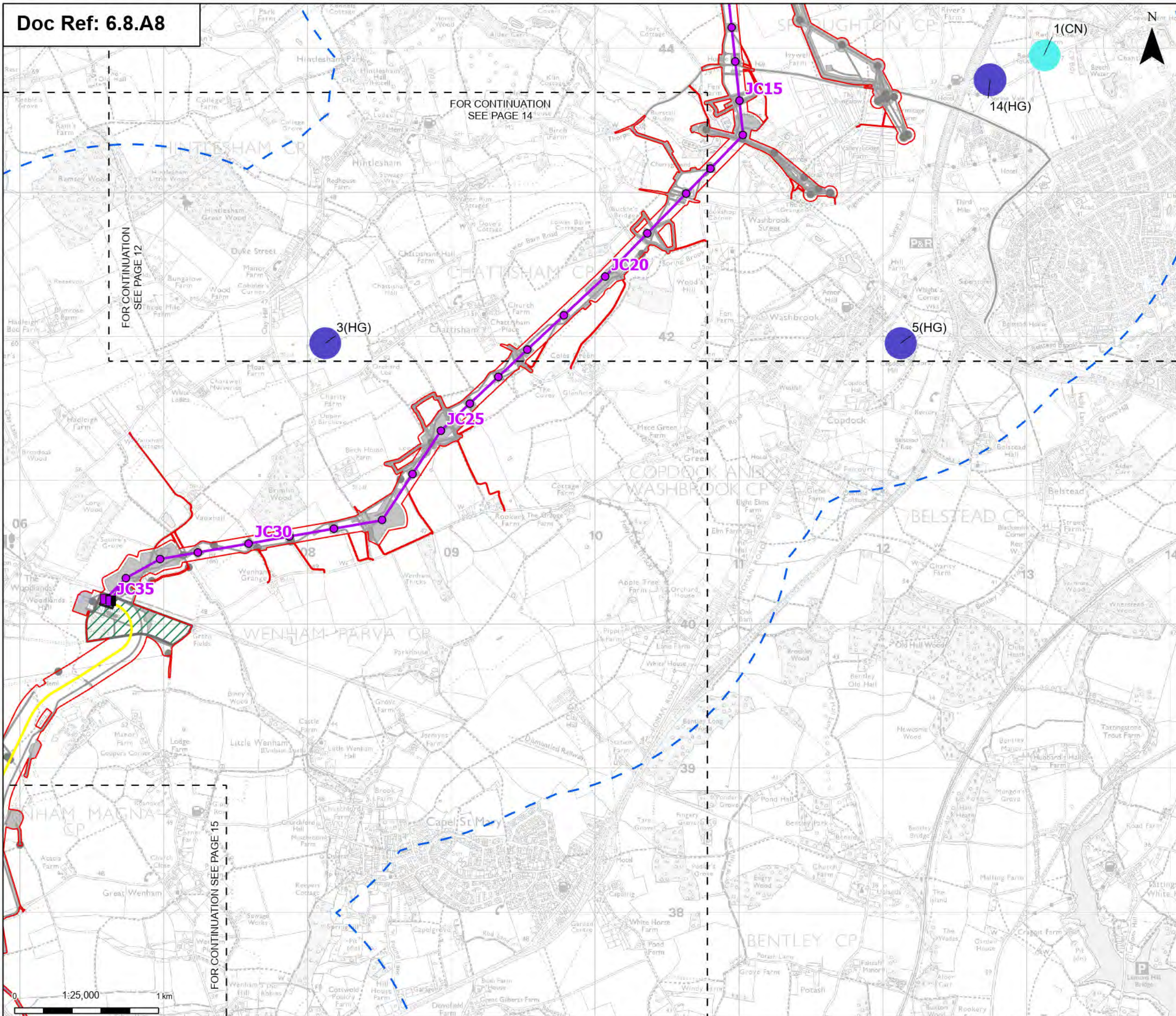
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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2 km Study Area

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

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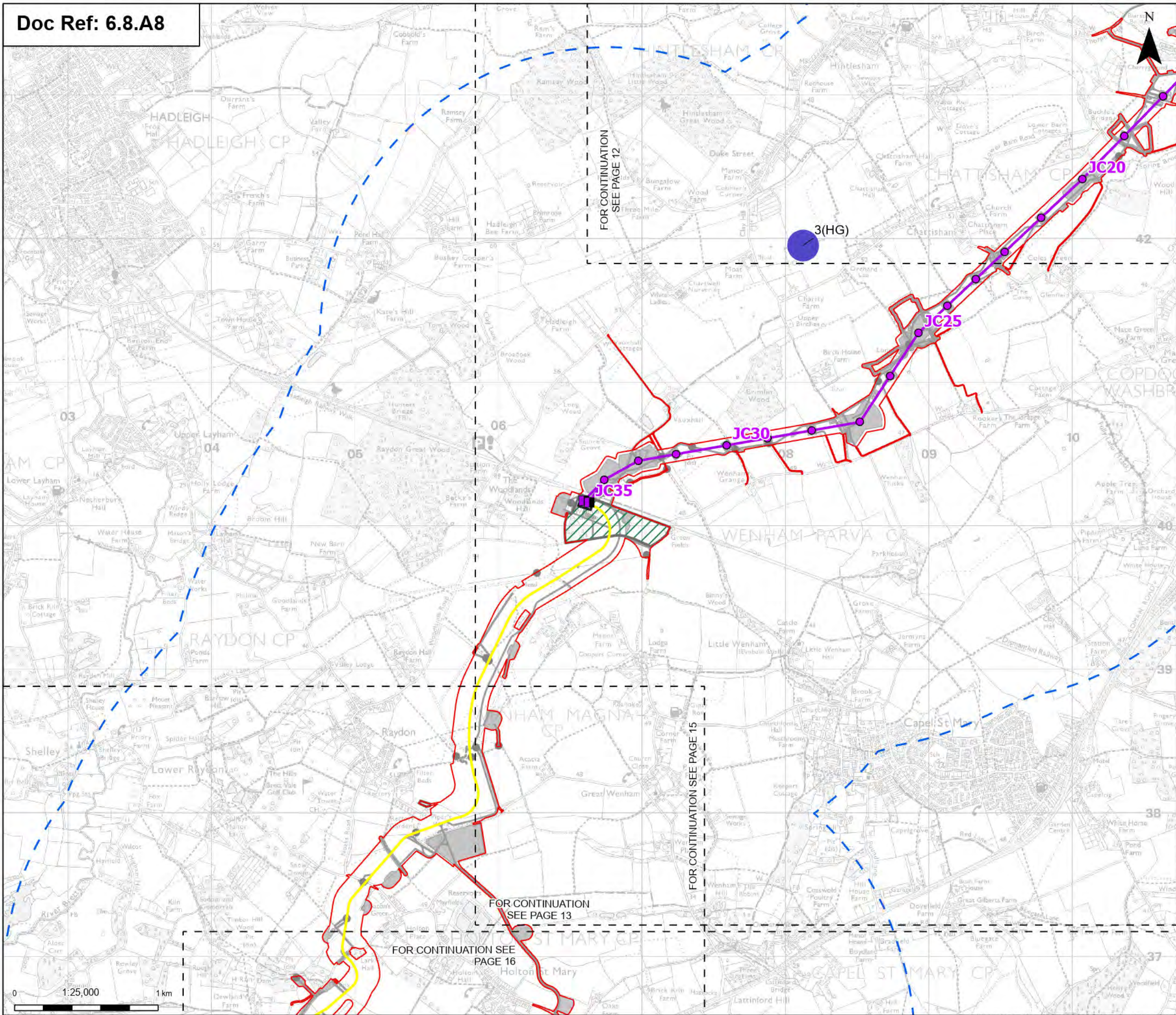
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2 km Study Area

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

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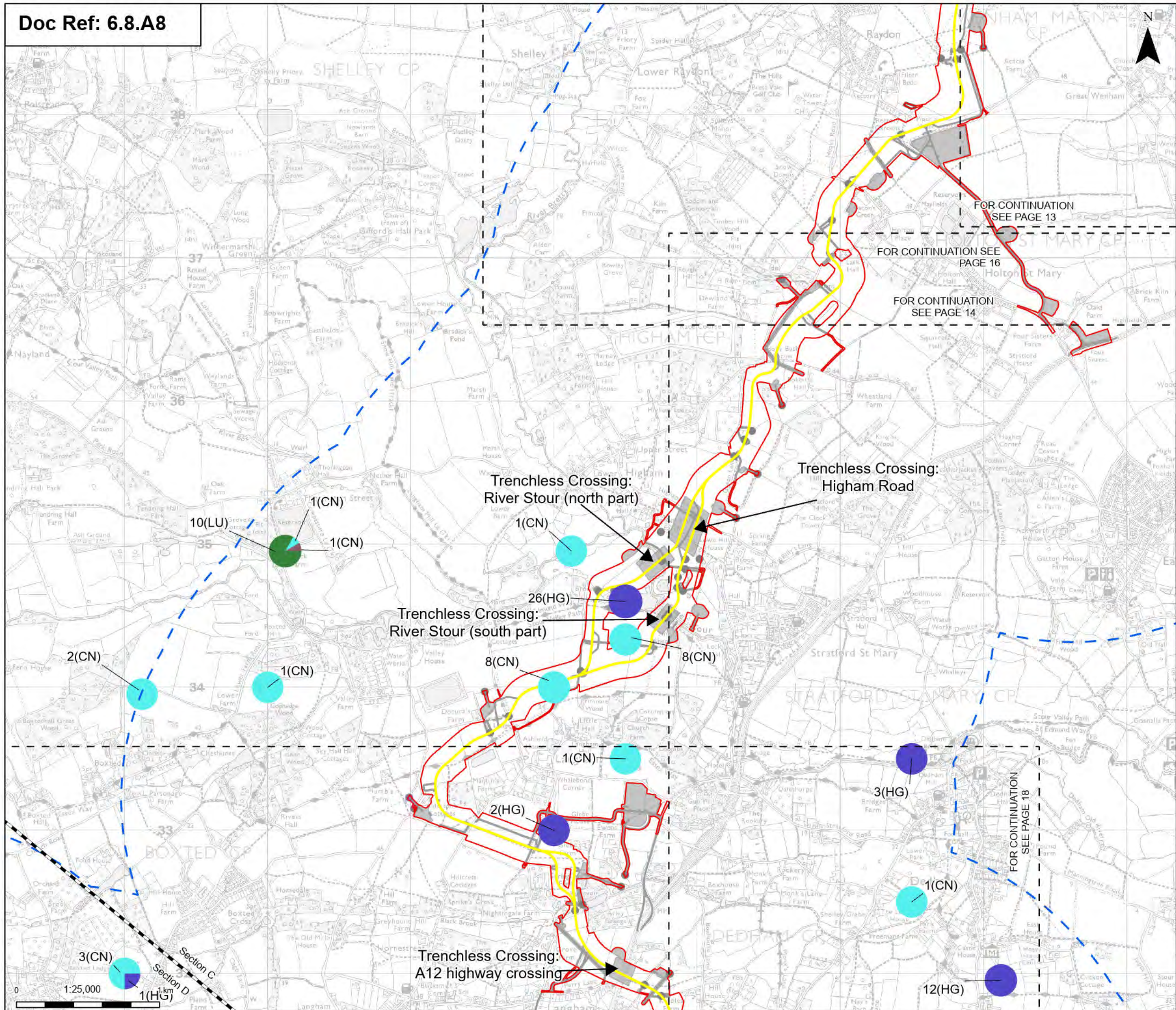
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- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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PROJECT: **Norwich to Tilbury**

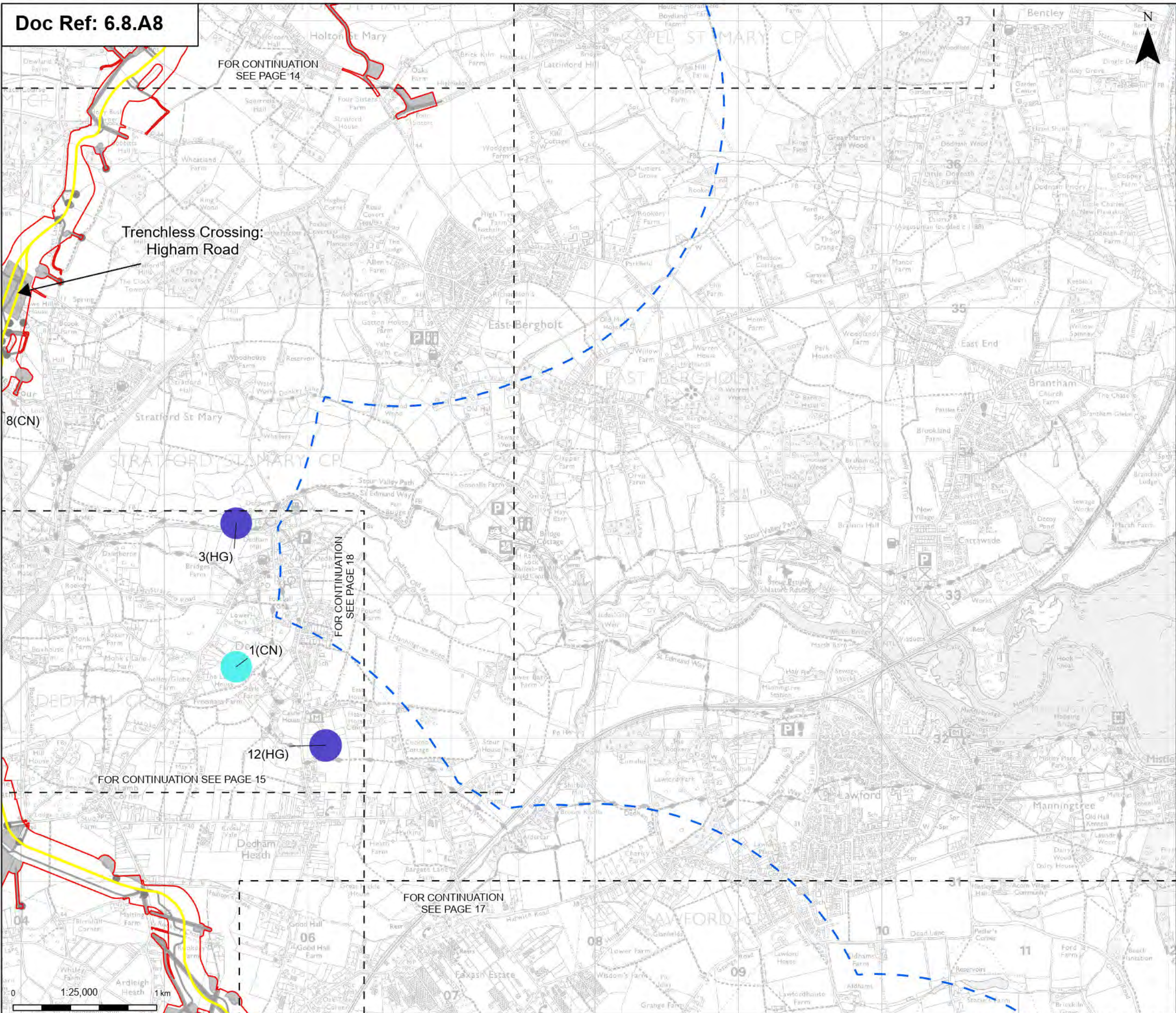
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Collision risk target species - Gulls & Terns total abundance (desk study data 2013-2022)

Arctic tern (AE)

Black tern (BJ)

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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)

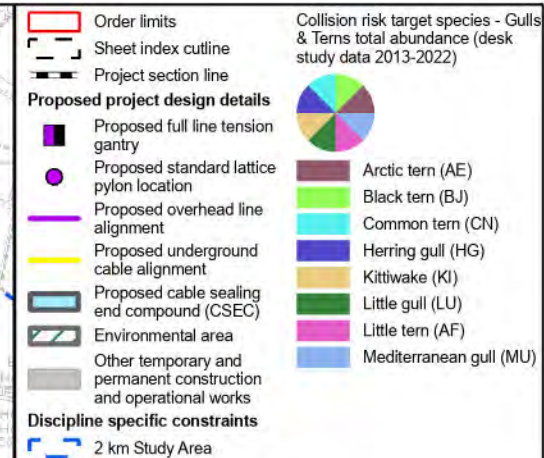
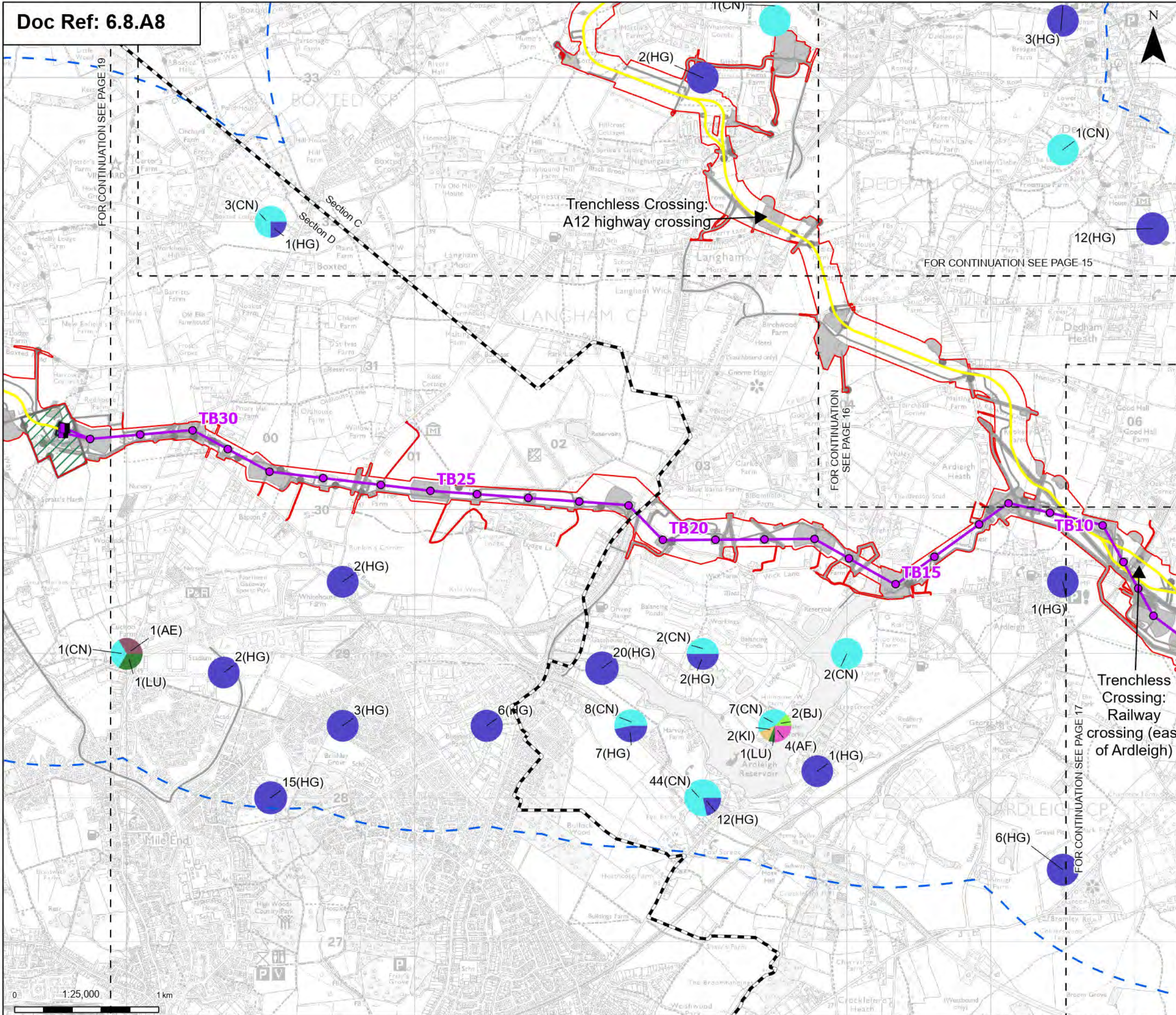
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Figure A8.8.8 - Ecology and Biodiversity
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Gulls & Terns (Desk Study Data 2013-2022)
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 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

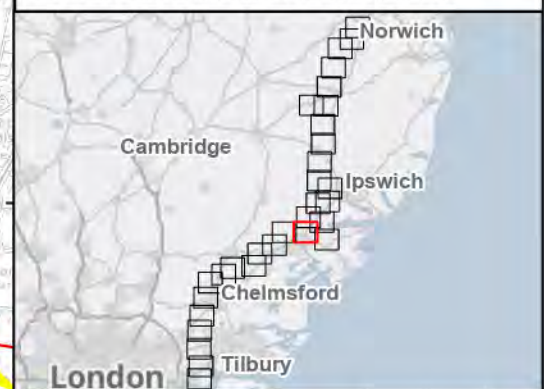
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10059280-ARC-EBD-ZZ-DR-ZZ-00321
Revision:
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Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2)

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nationalgrid PROJECT: Norwich to Tilbury

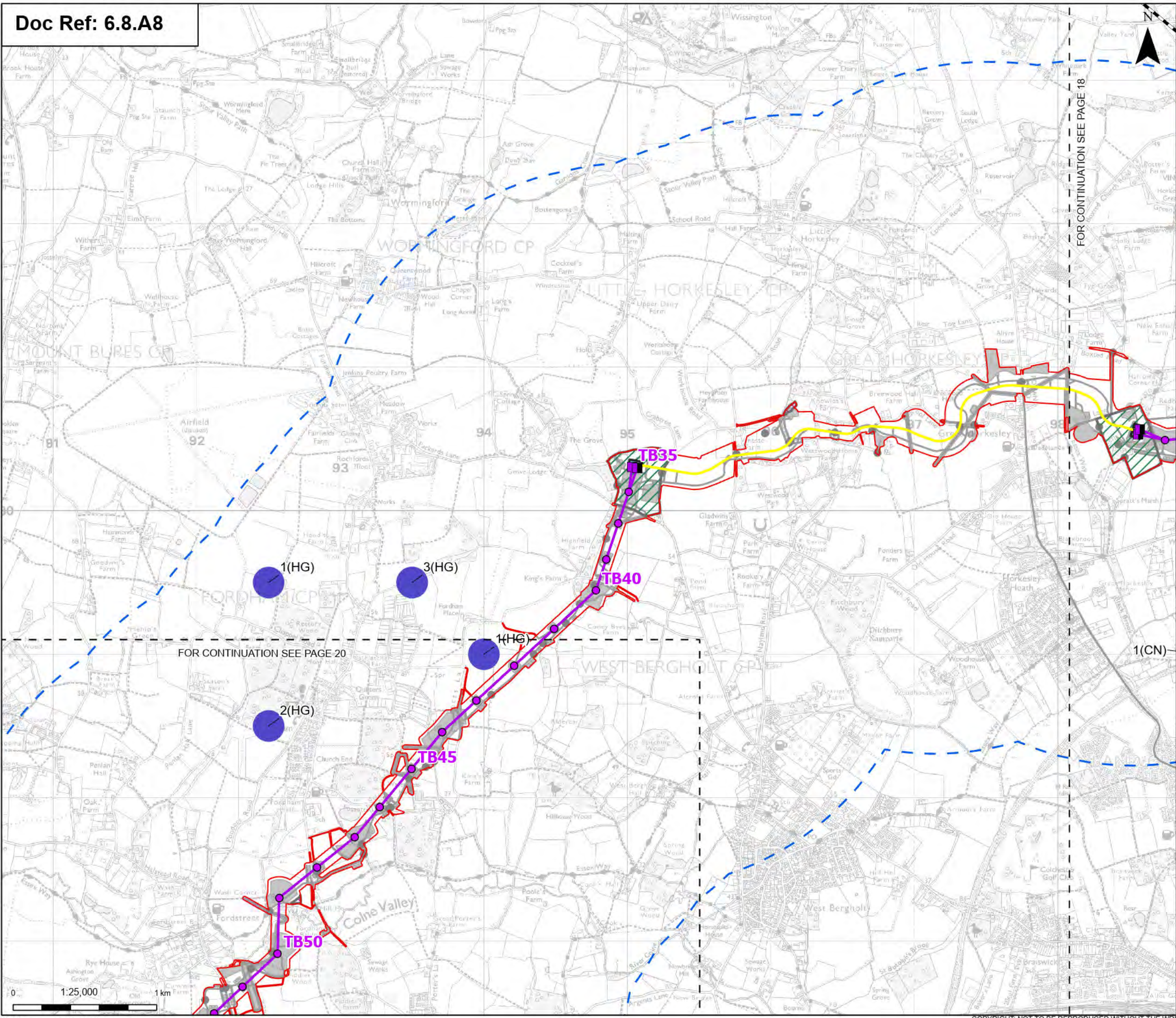
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Title: Figure A8.8.8 - Ecology and Biodiversity
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Proposed full line tension gantry
Proposed standard lattice pylon location
Proposed overhead line alignment
Proposed underground cable alignment
Proposed 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 target species - Gulls & Terns total abundance (desk study data 2013-2022)

Species	Abundance
Arctic tern (AE)	High
Black tern (BJ)	Medium
Common tern (CN)	Low
Herring gull (HG)	High
Kittiwake (KI)	Medium
Little gull (LU)	Low
Little tern (AF)	Medium
Mediterranean gull (MU)	Low

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:
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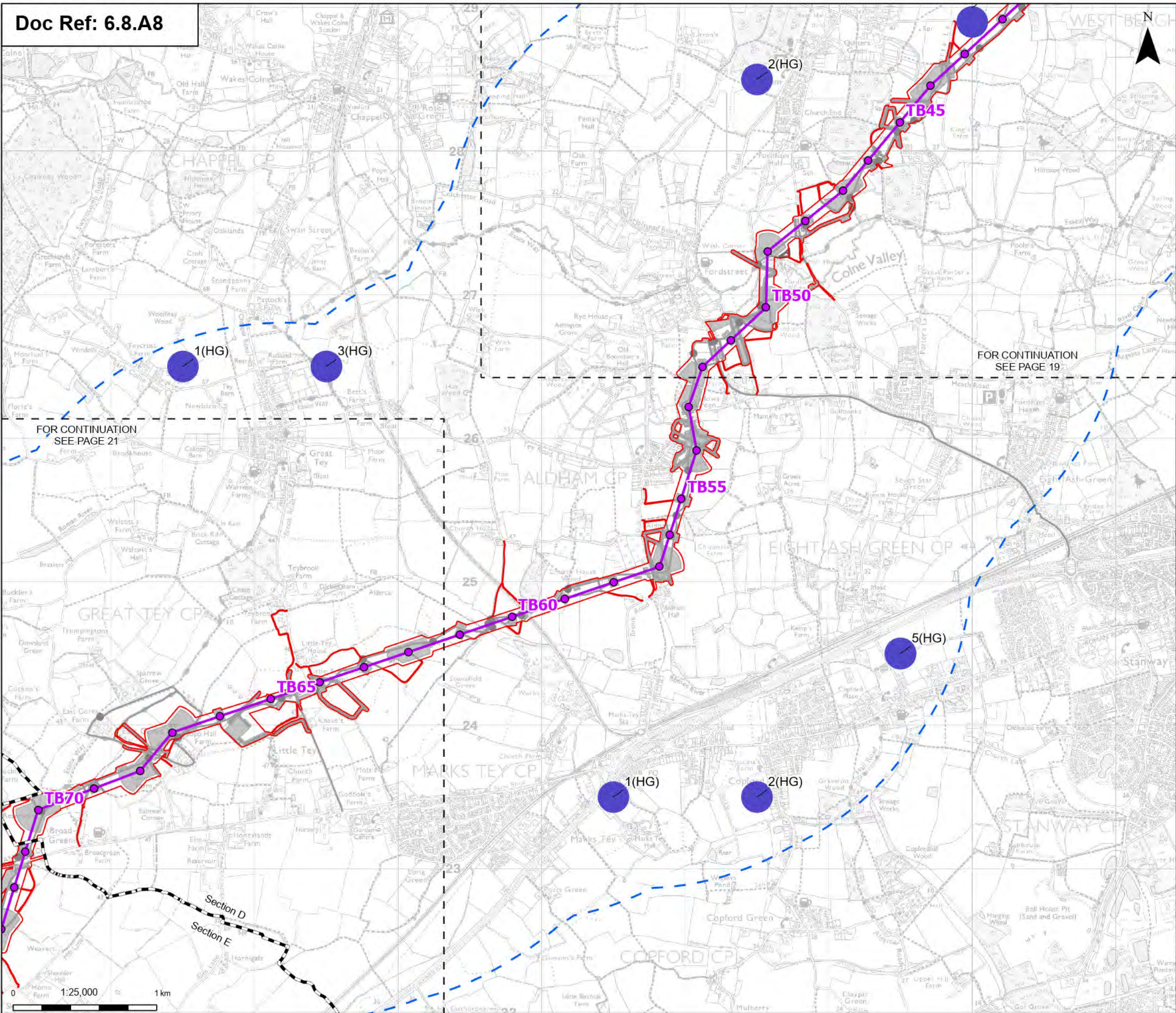
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Figure A8.8.8 - Ecology and Biodiversity
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Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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**

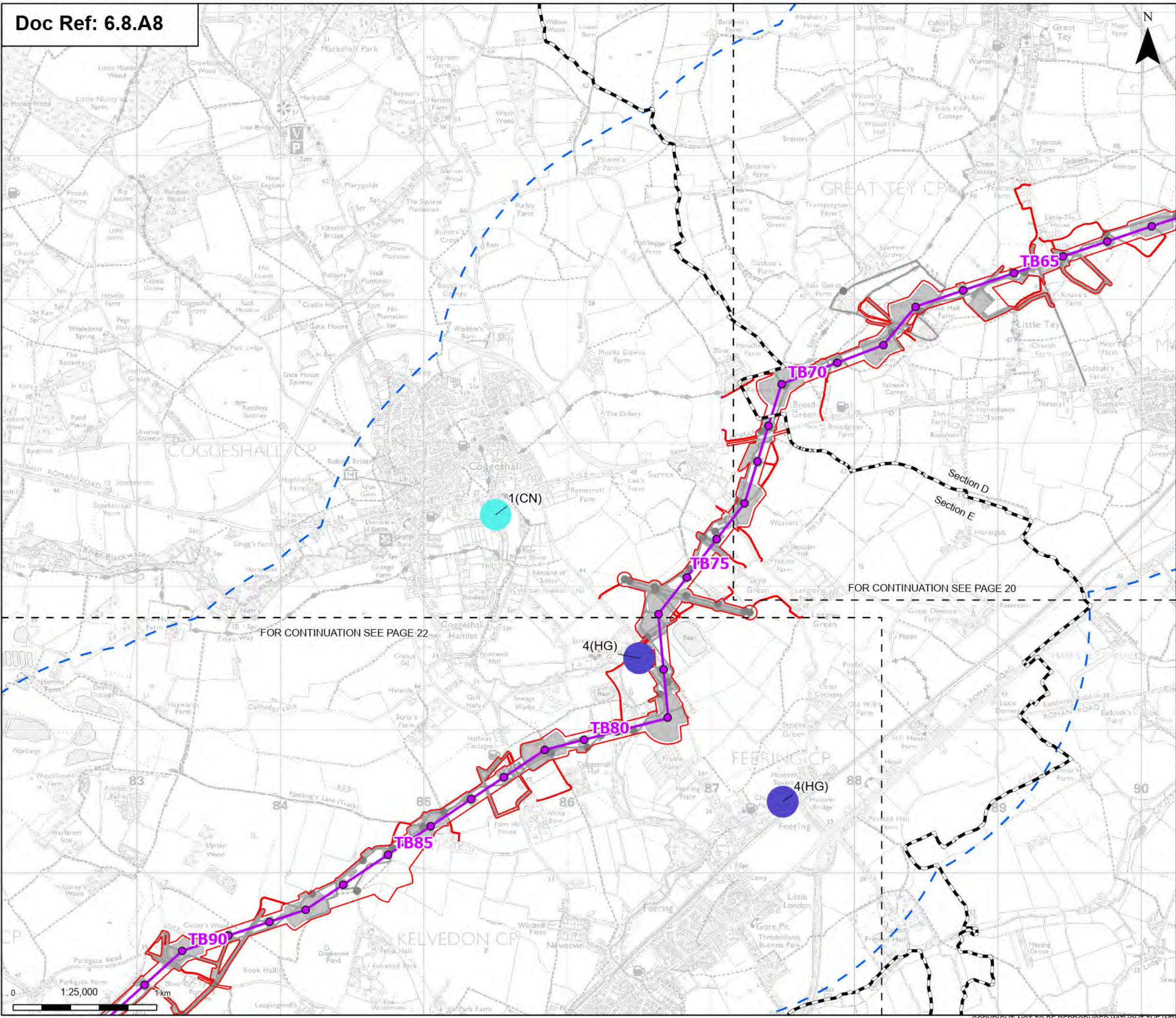
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Regulation 5(2)(a)

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Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)
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Environmental mitigation
Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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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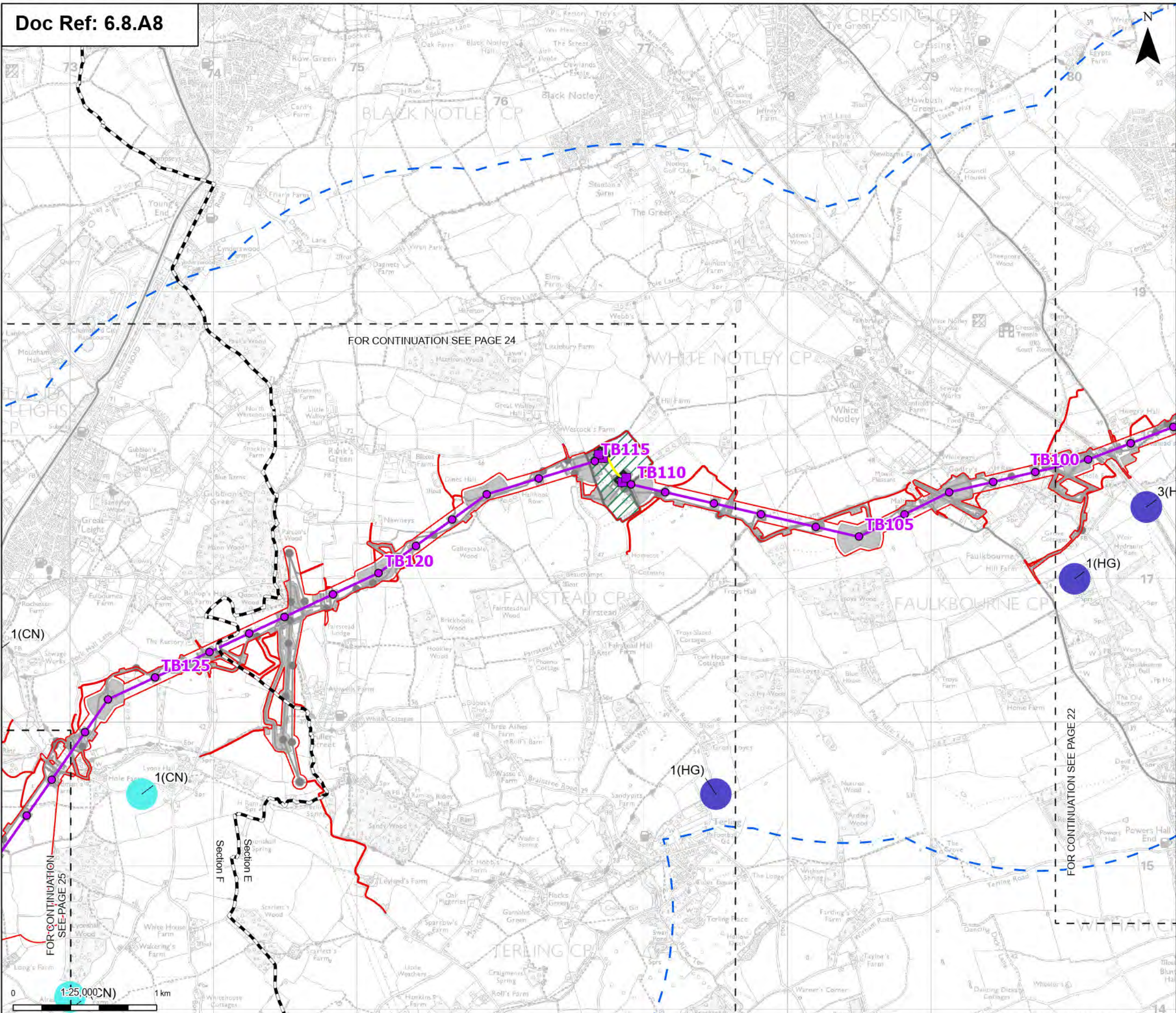
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Regulation 5(2)(a)

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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

2 km Study Area

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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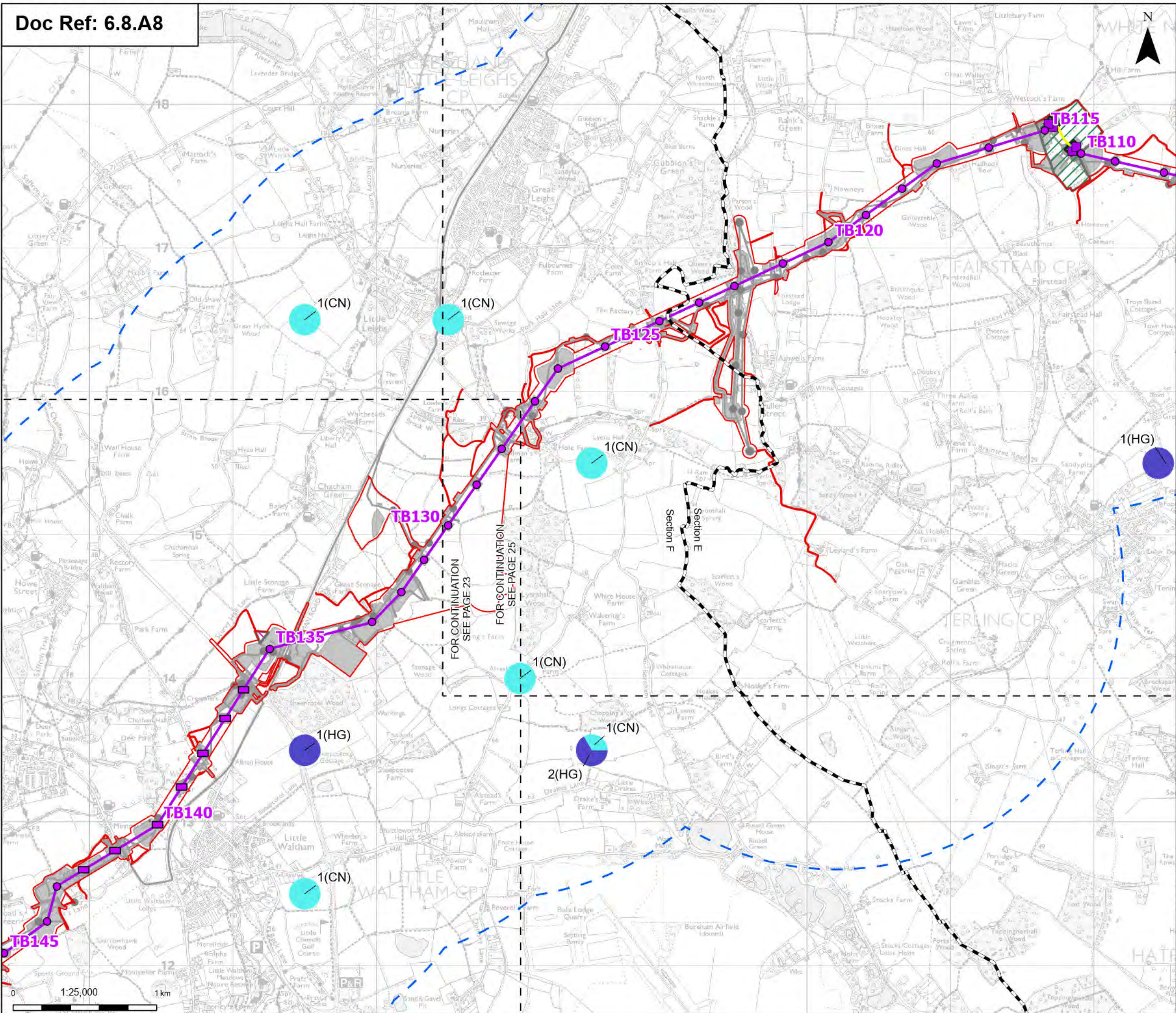
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Figure A8.8.8 - Ecology and Biodiversity
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Proposed project design details

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- 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 target species - Gulls & Terns total abundance (desk study data 2013-2022)

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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
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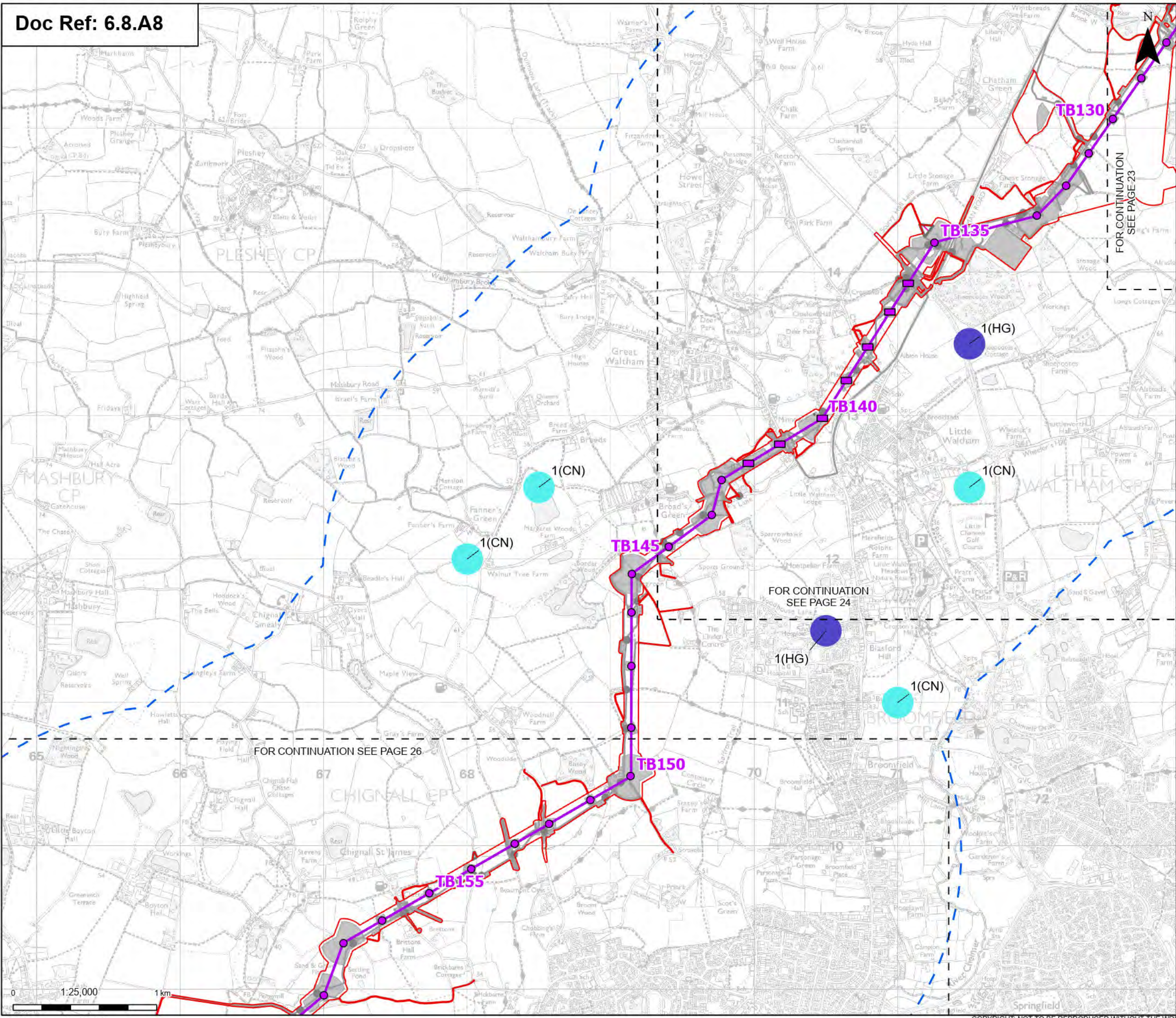
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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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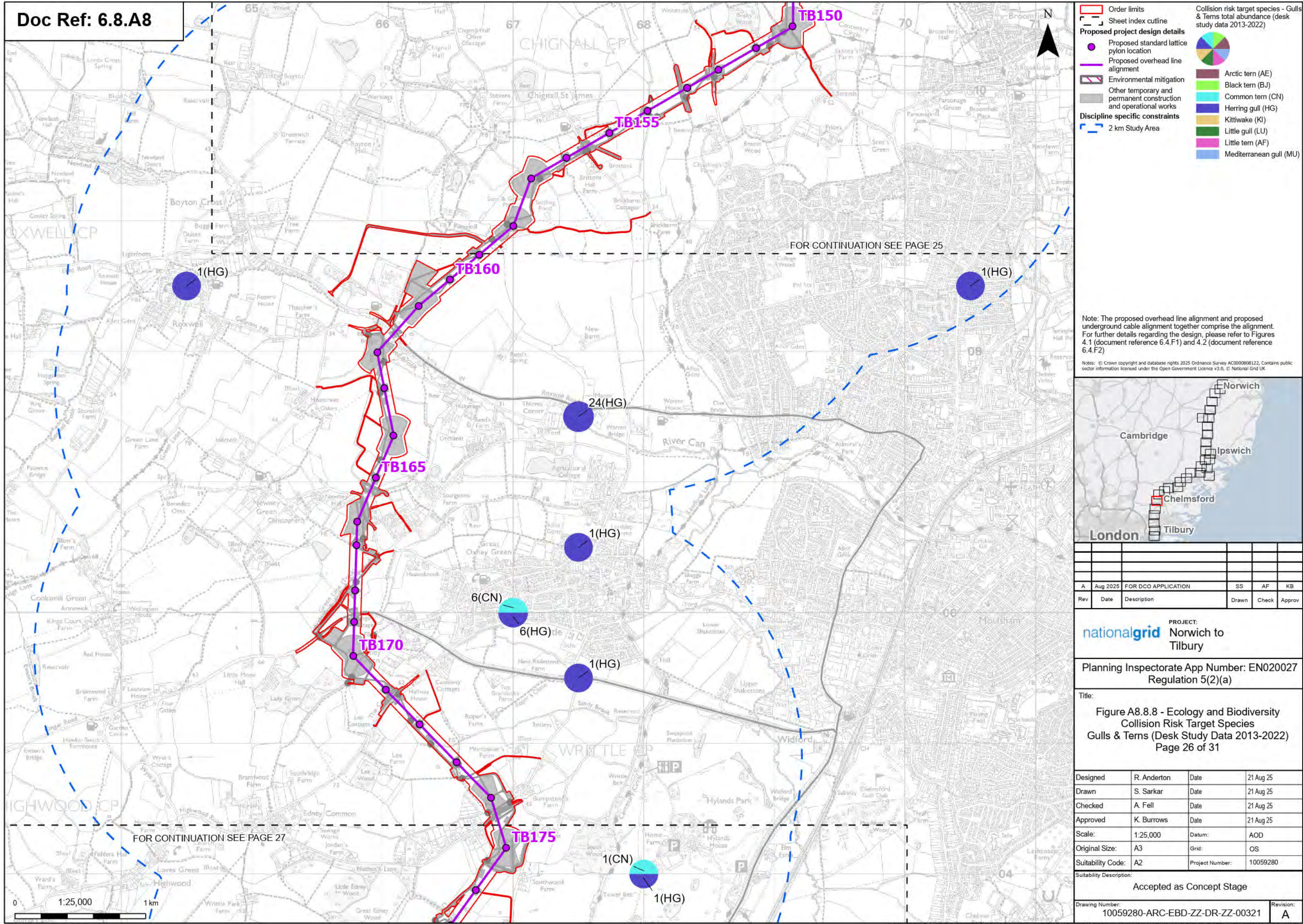
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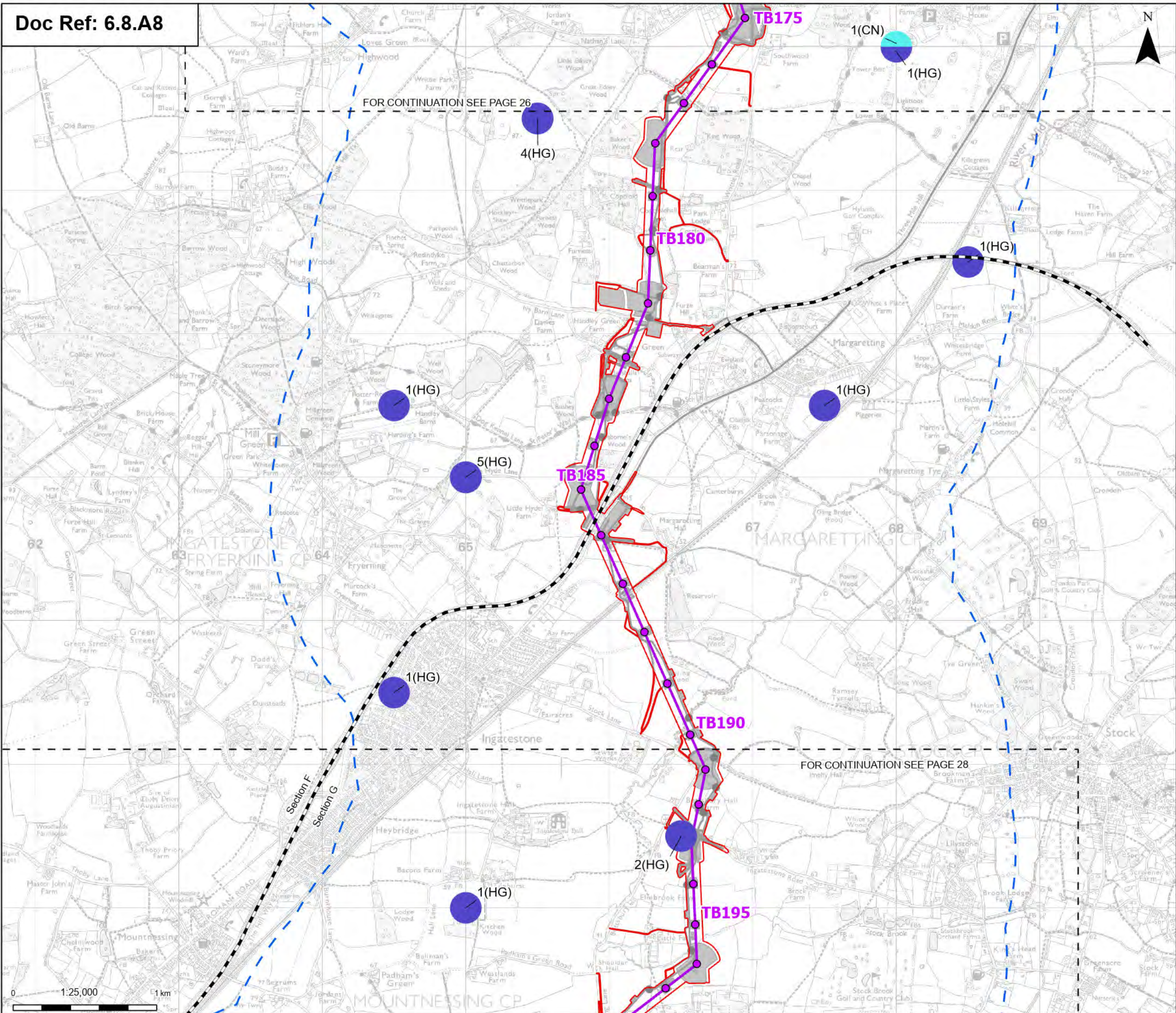
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Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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PROJECT:
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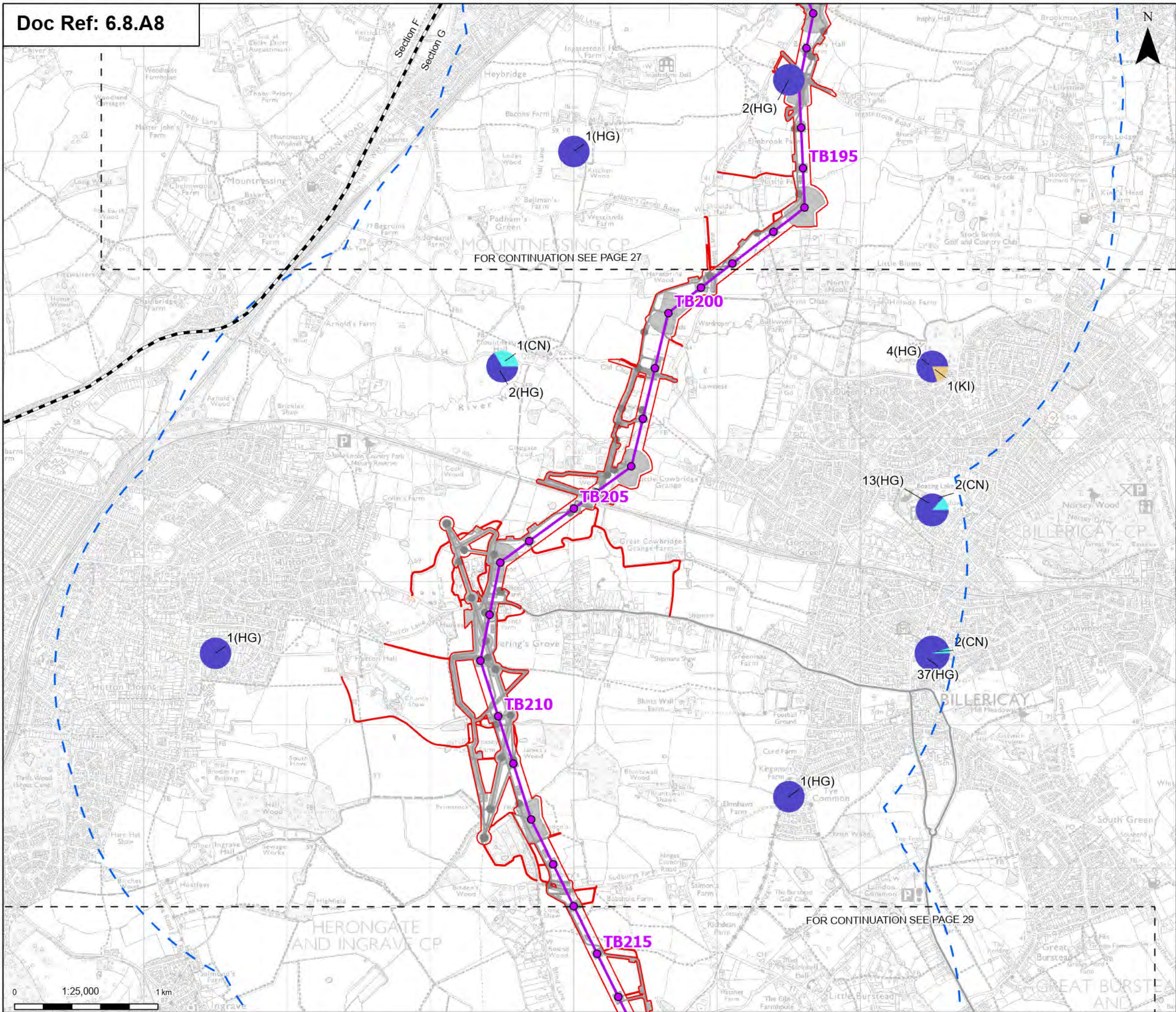
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Other temporary and permanent construction and operational works

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2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027
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Title:
**Figure A8.8.8 - Ecology and Biodiversity
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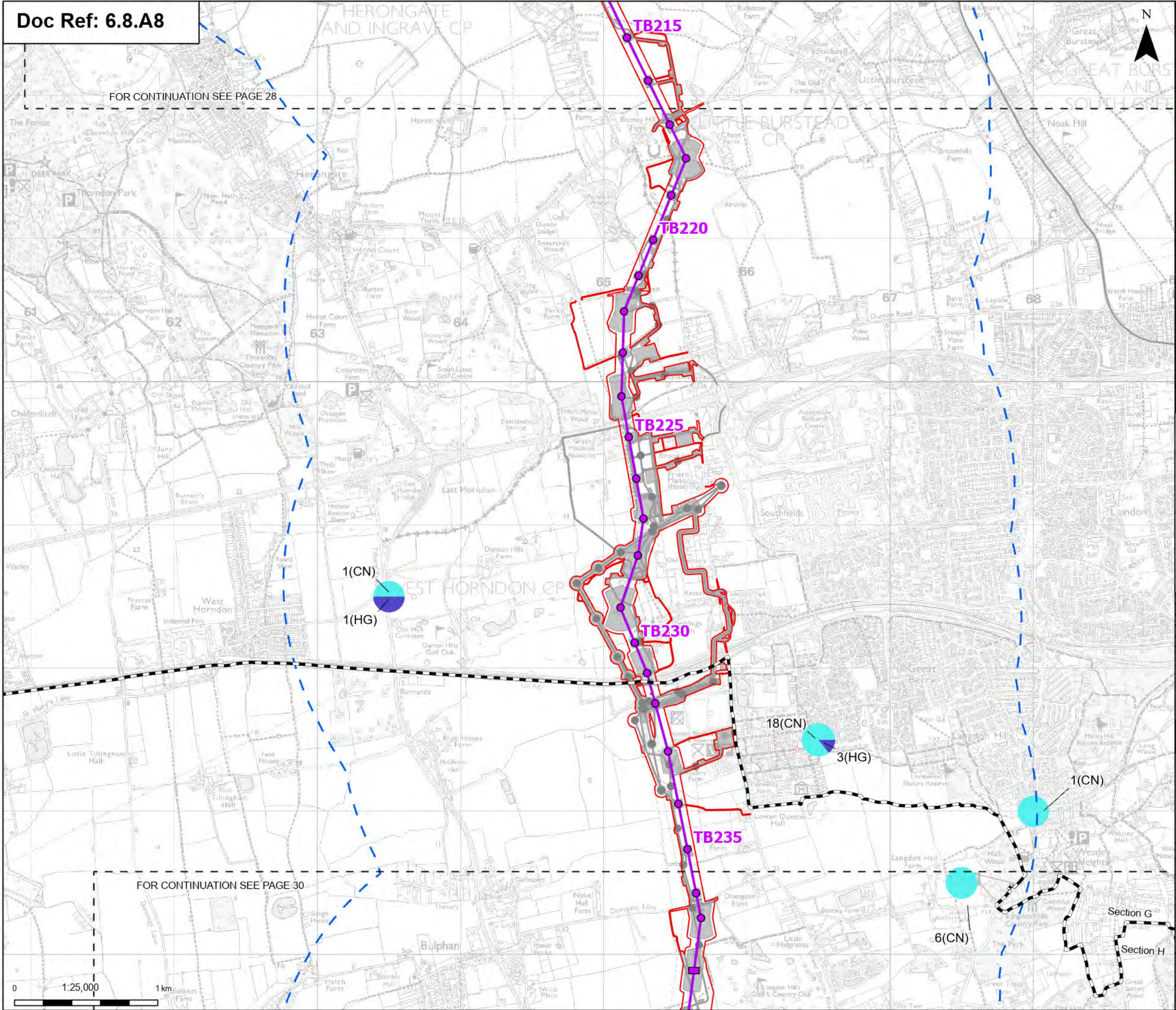
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Discipline specific constraints

2 km Study Area

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

Arctic tern (AE)

Black tern (BJ)

Common tern (CN)

Herring gull (HG)

Kittiwake (KI)

Little gull (LU)

Little tern (AF)

Mediterranean gull (MU)

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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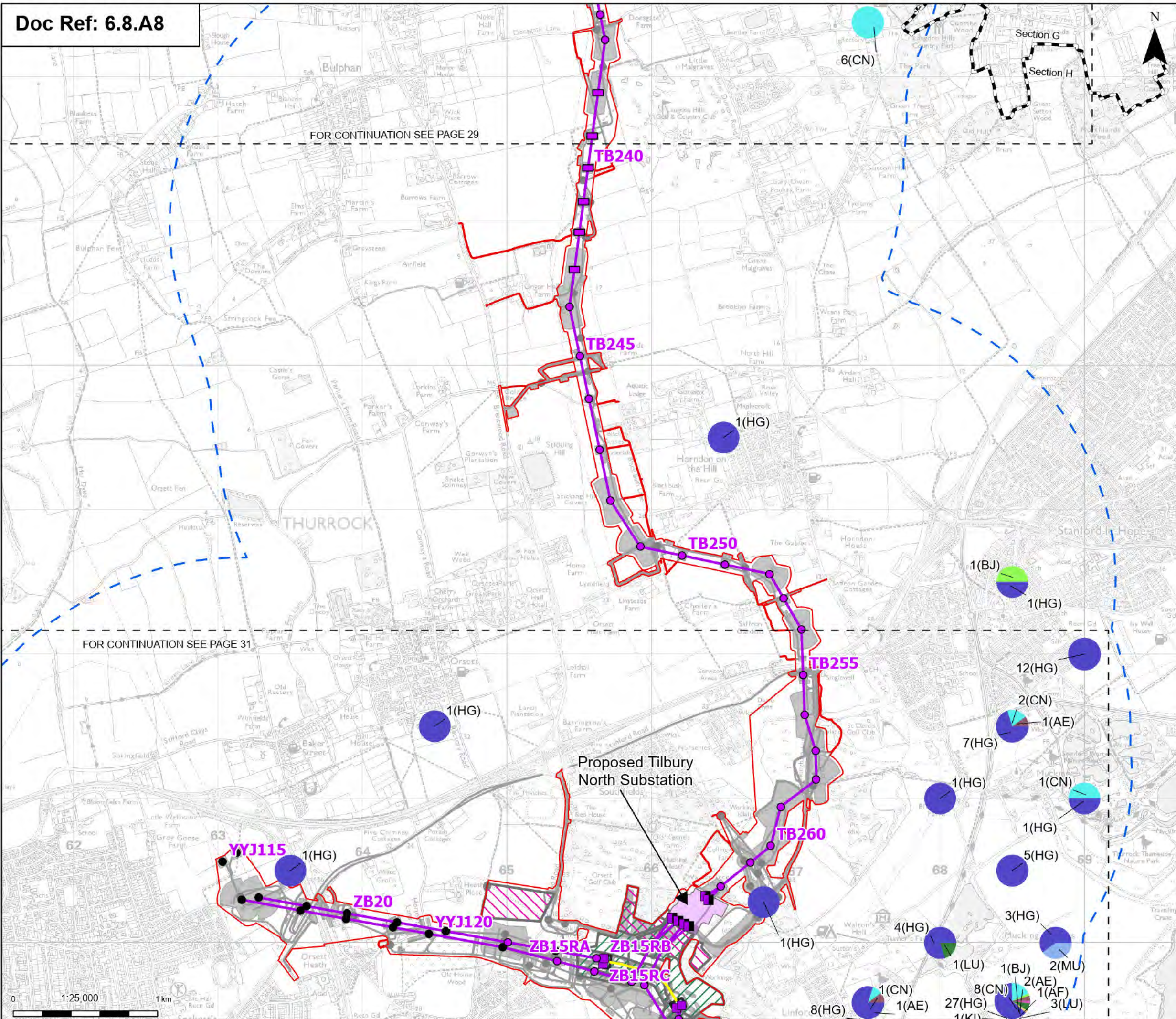
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- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027
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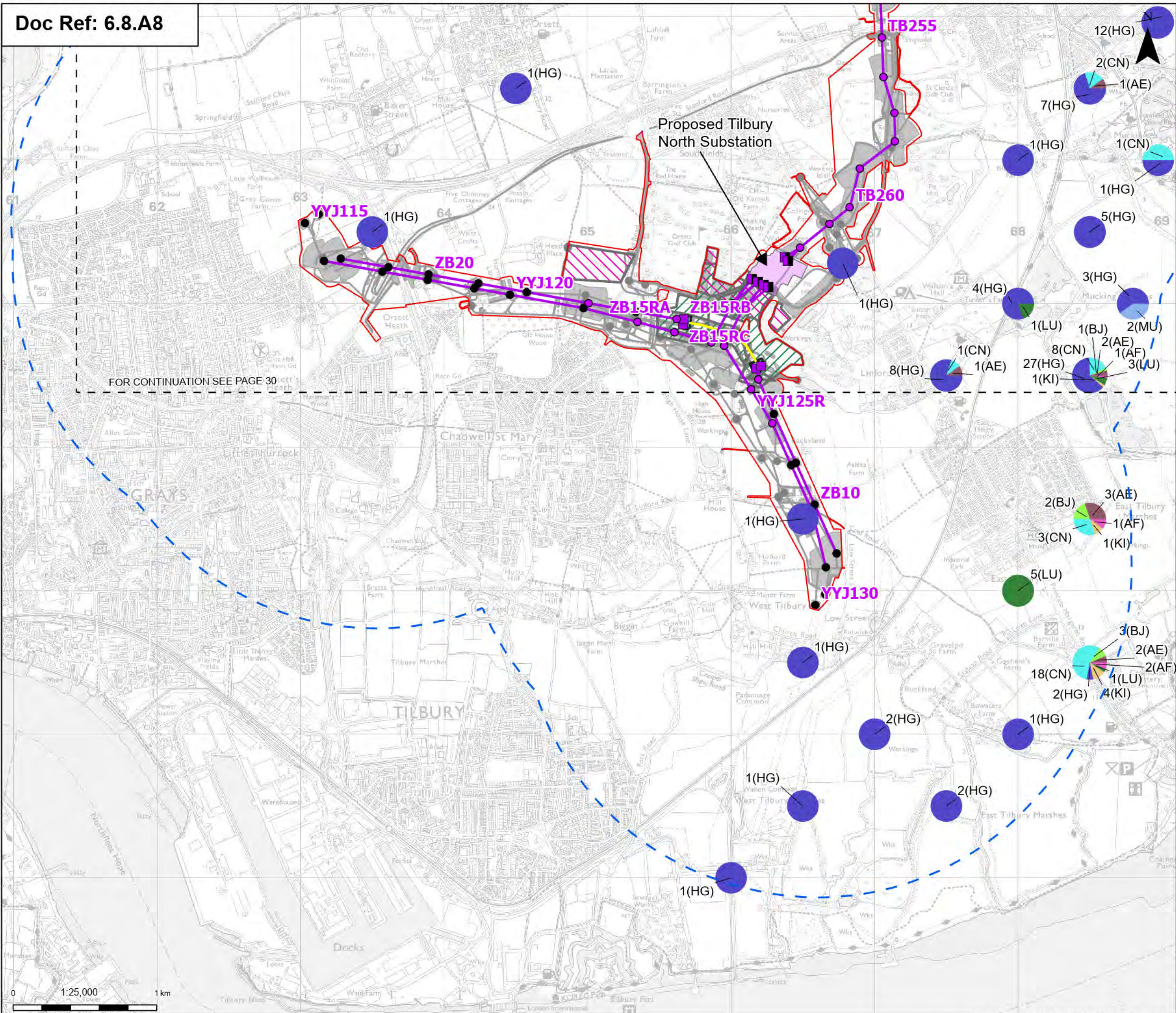
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- Proposed underground cable alignment
- Proposed Tilbury North Substation
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints
2 km Study Area

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

- Arctic tern (AE)
- Black tern (BJ)
- Common tern (CN)
- Herring gull (HG)
- Kittiwake (KI)
- Little gull (LU)
- Little tern (AF)
- Mediterranean gull (MU)

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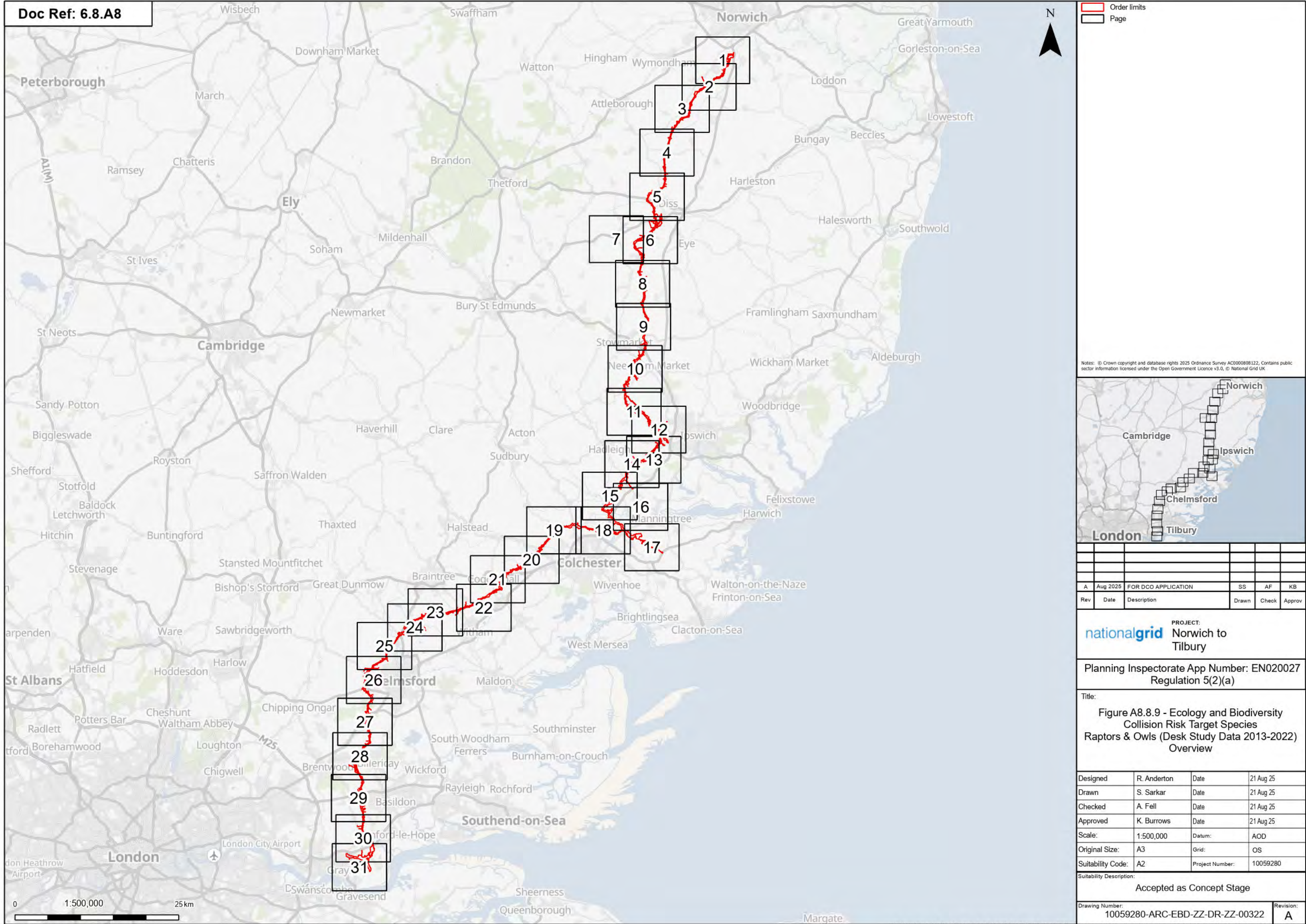
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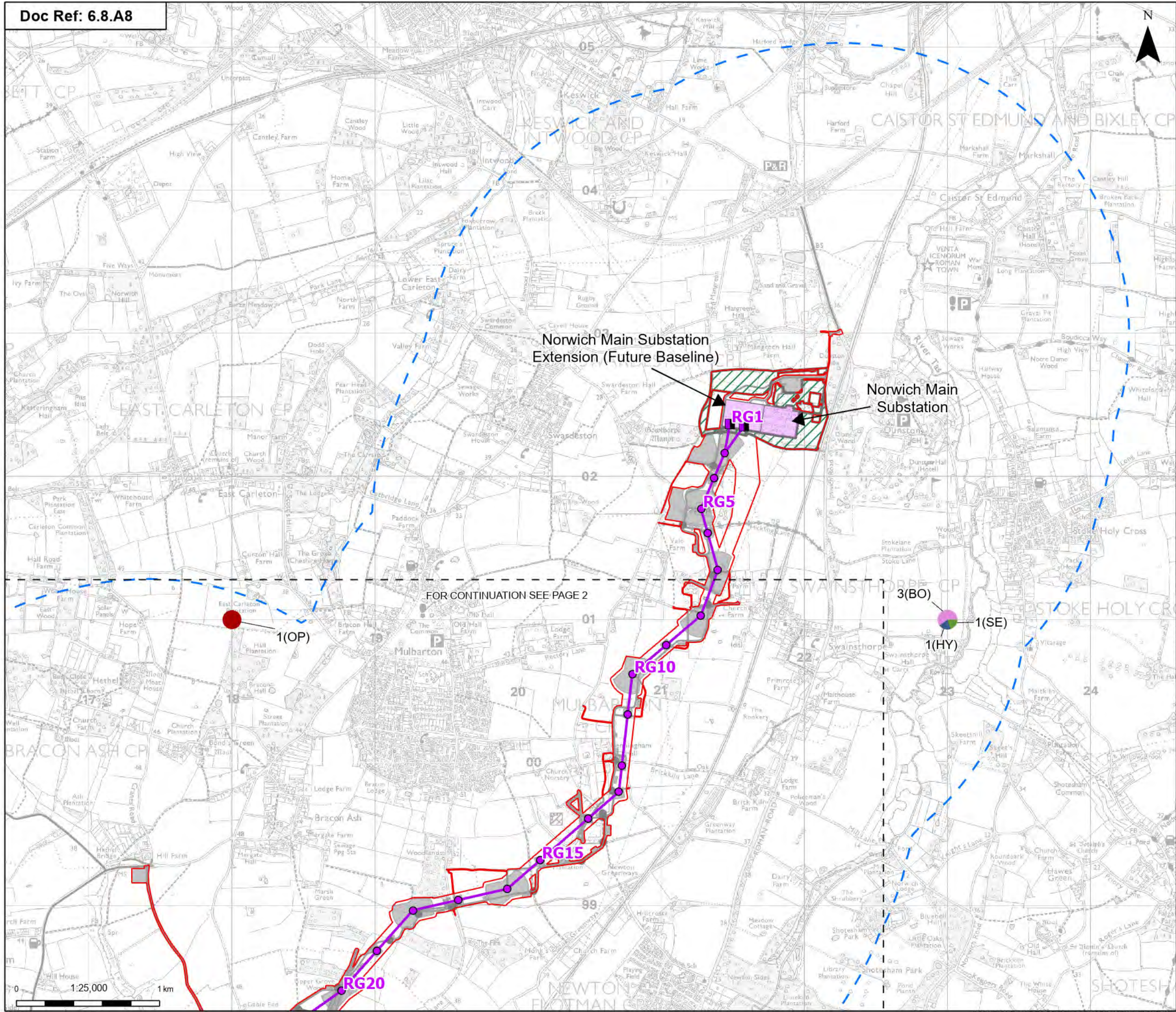
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Figure A8.8.8 - Ecology and Biodiversity Collision Risk Target Species Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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-00321
Revision: A





Order limits
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

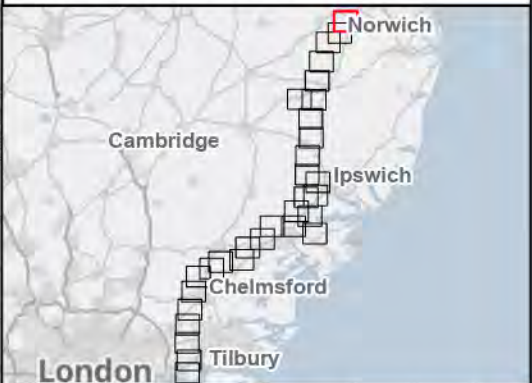
Discipline specific constraints
2 km Study Area

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

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
- Osprey (OP)
- Peregrine (PE)
- Red Kite (KT)
- Short-eared owl (SE)
- Snowy owl (SO)
- White-tailed eagle (WE)

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
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

PROJECT: **Norwich to Tilbury**

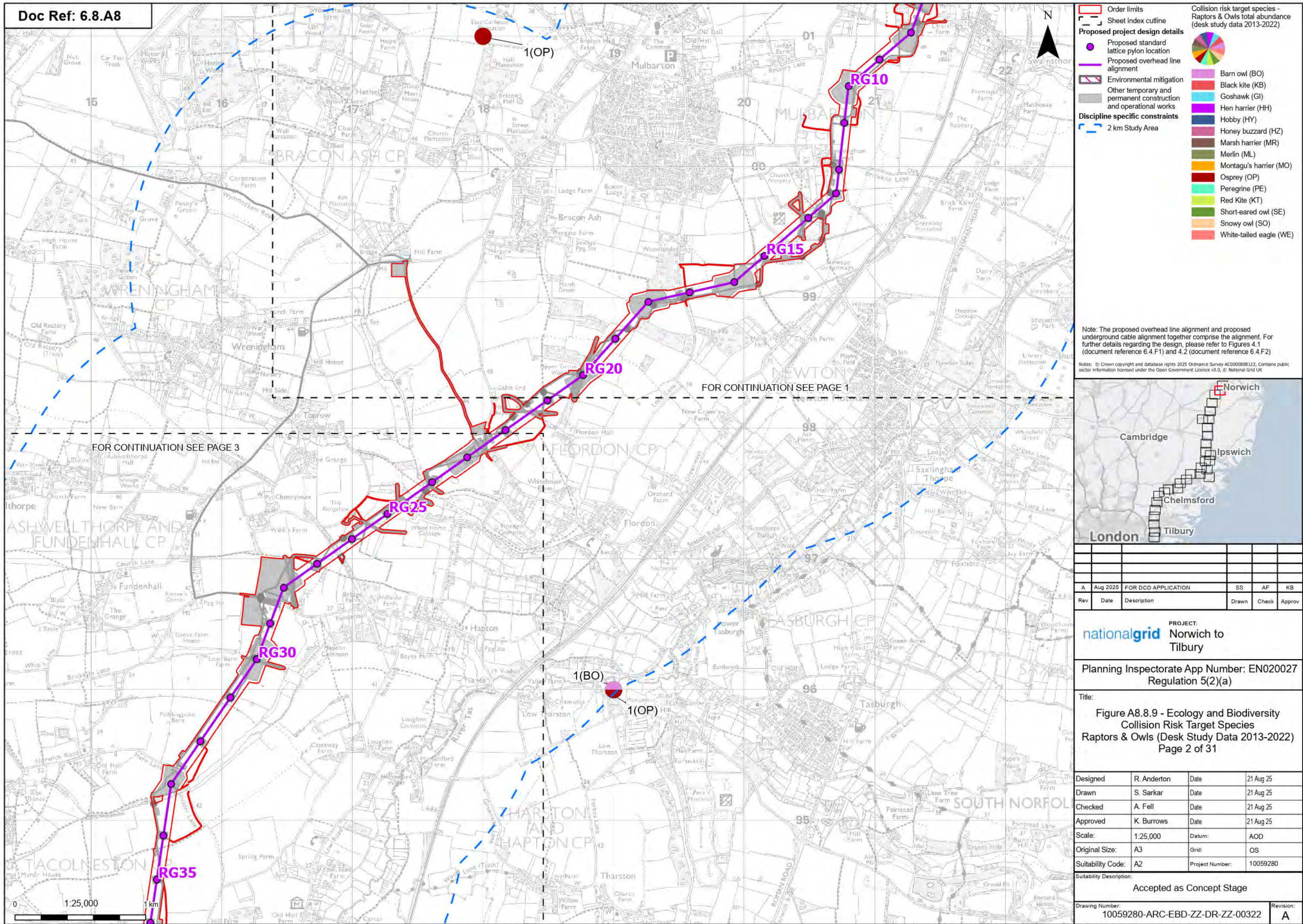
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

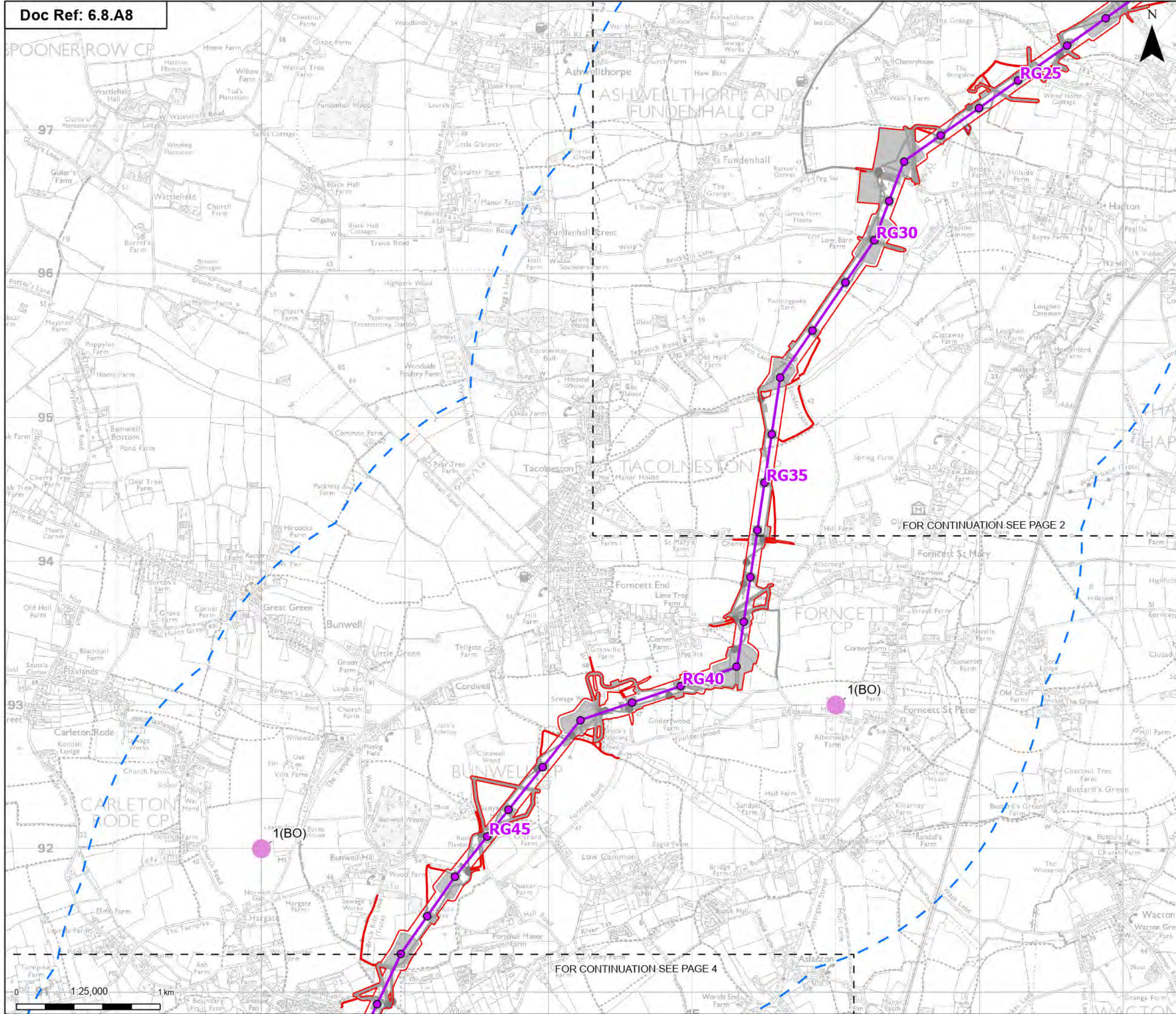
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**Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 1 of 31**

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

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00322
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

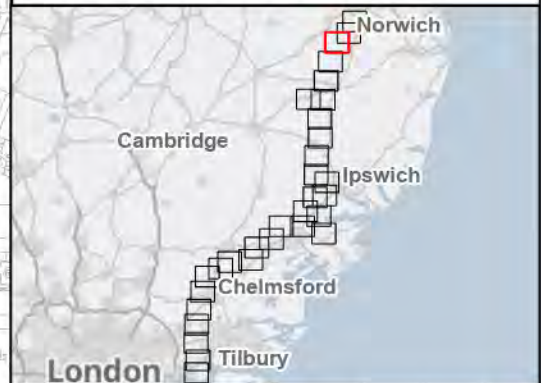
- 2 km Study Area

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

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
- Osprey (OP)
- Peregrine (PE)
- Red Kite (KT)
- Short-eared owl (SE)
- Snowy owl (SO)
- White-tailed eagle (WE)

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

PROJECT:
nationalgrid Norwich to Tilbury

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

Title:
**Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 3 of 31**

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 Code:	A2	Project Number:	10059280

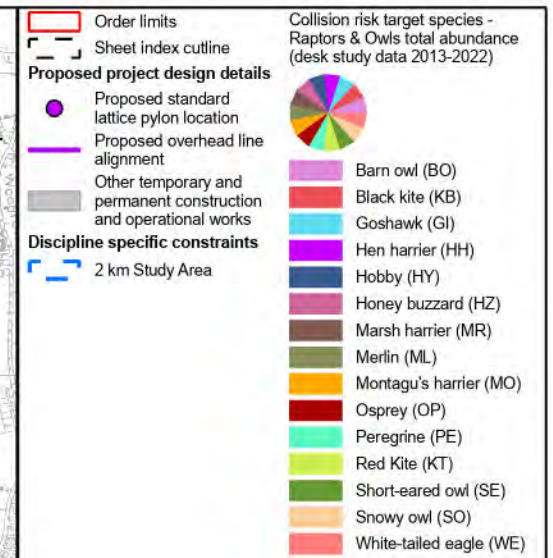
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00322

Revision:
A

FOR CONTINUATION SEE PAGE 3

FOR CONTINUATION SEE PAGE 5



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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nationalgrid PROJECT: Norwich to Tilbury

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

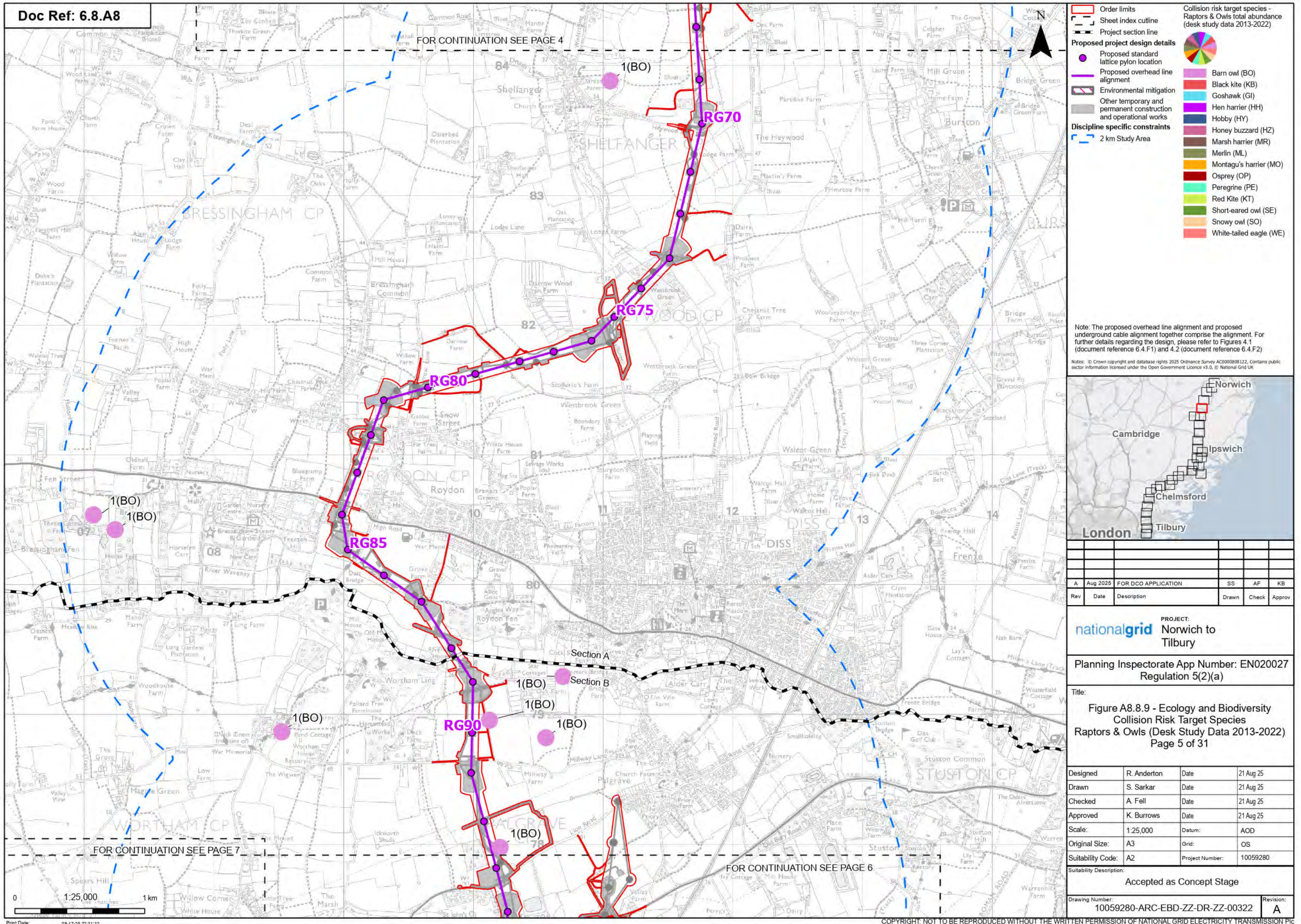
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Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)**
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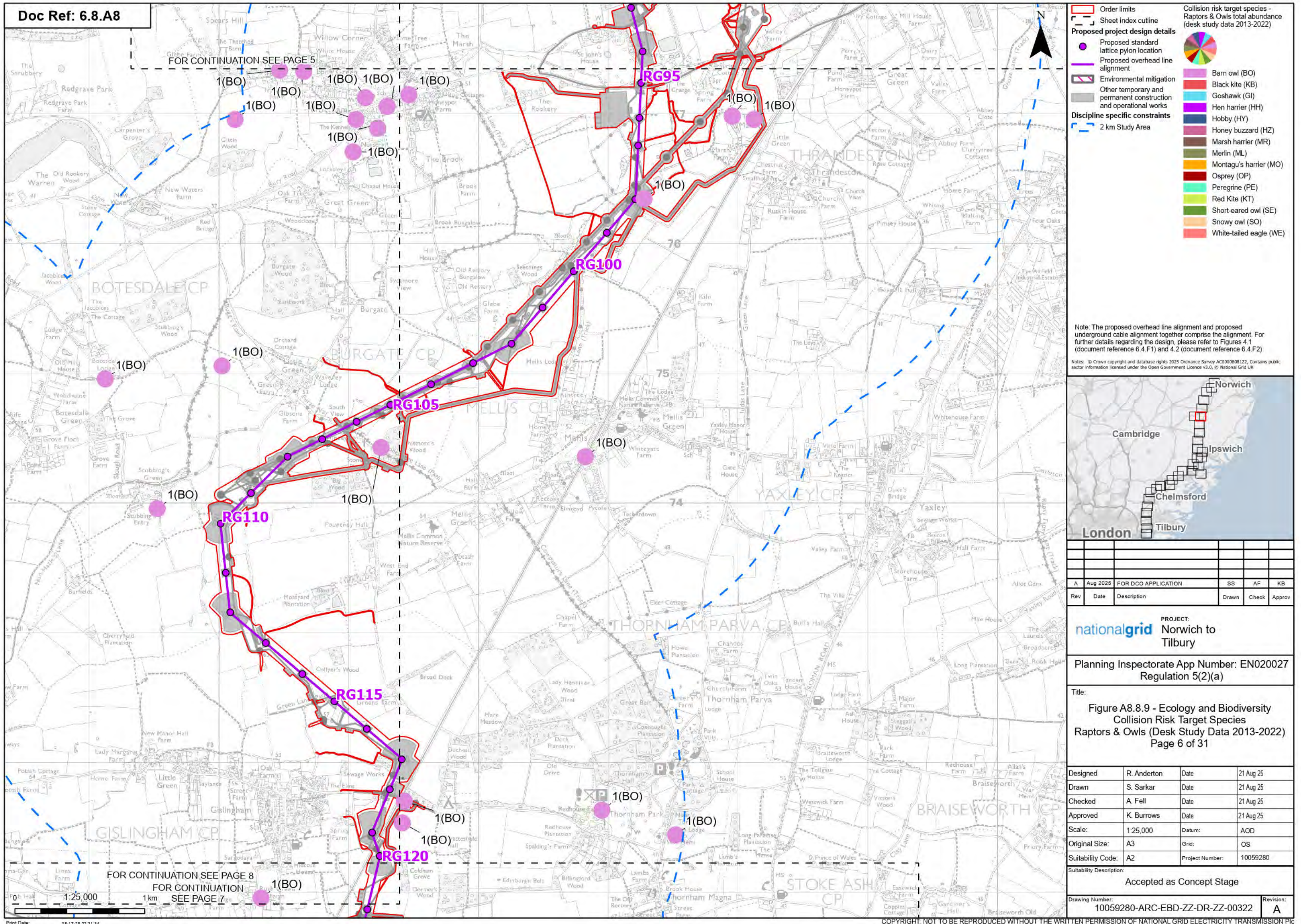
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Suitability Description:

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00322	Revision: A
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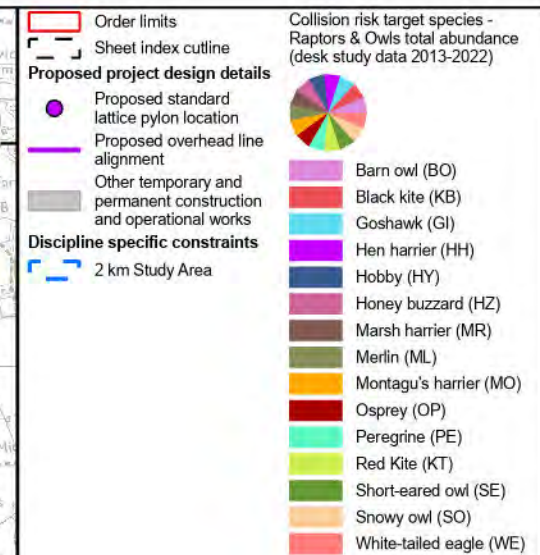




FOR CONTINUATION
SEE PAGE 7

FOR CONTINUATION SEE PAGE 6

FOR CONTINUATION SEE PAGE 9



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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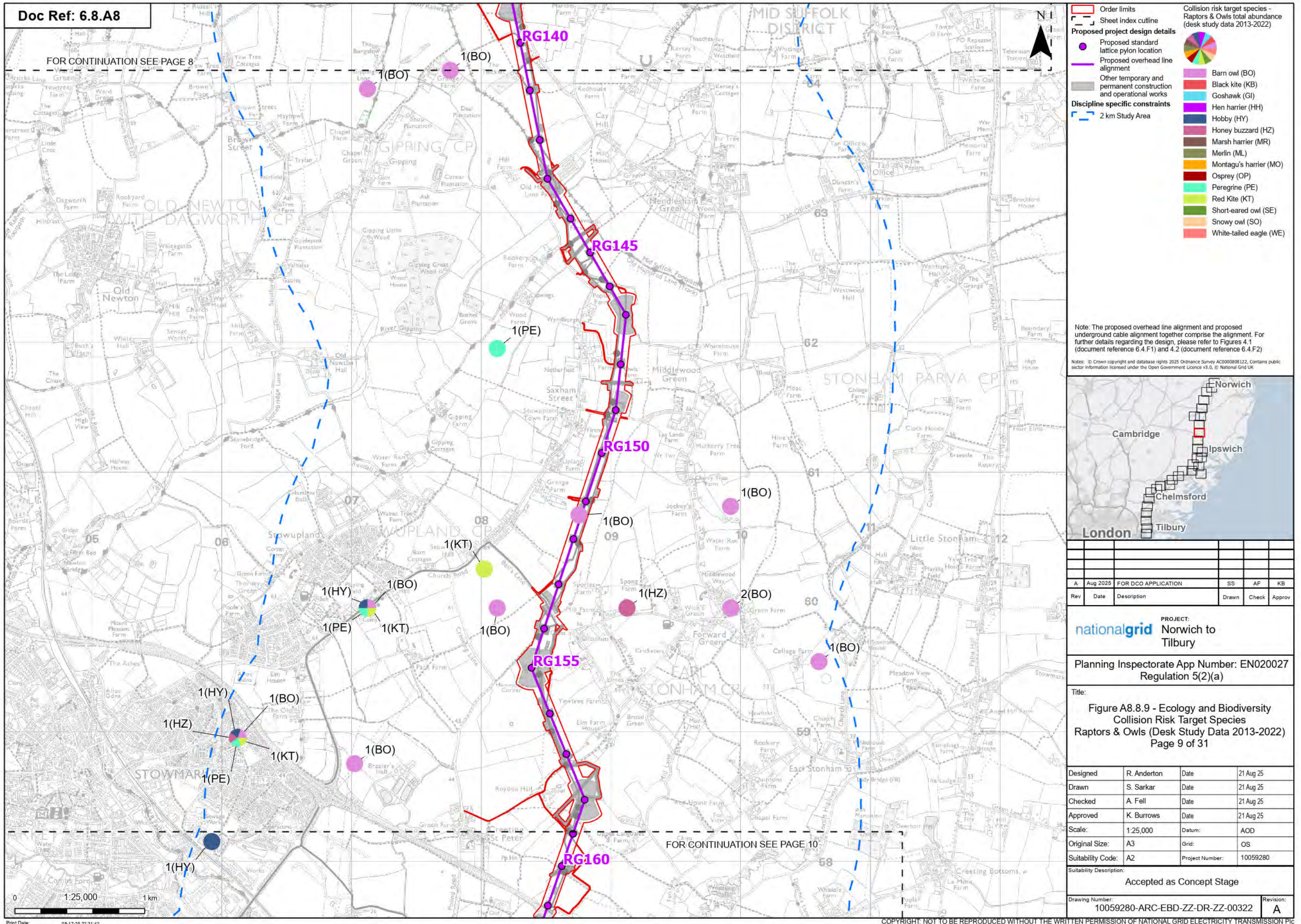
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Regulation 5(2)(a)

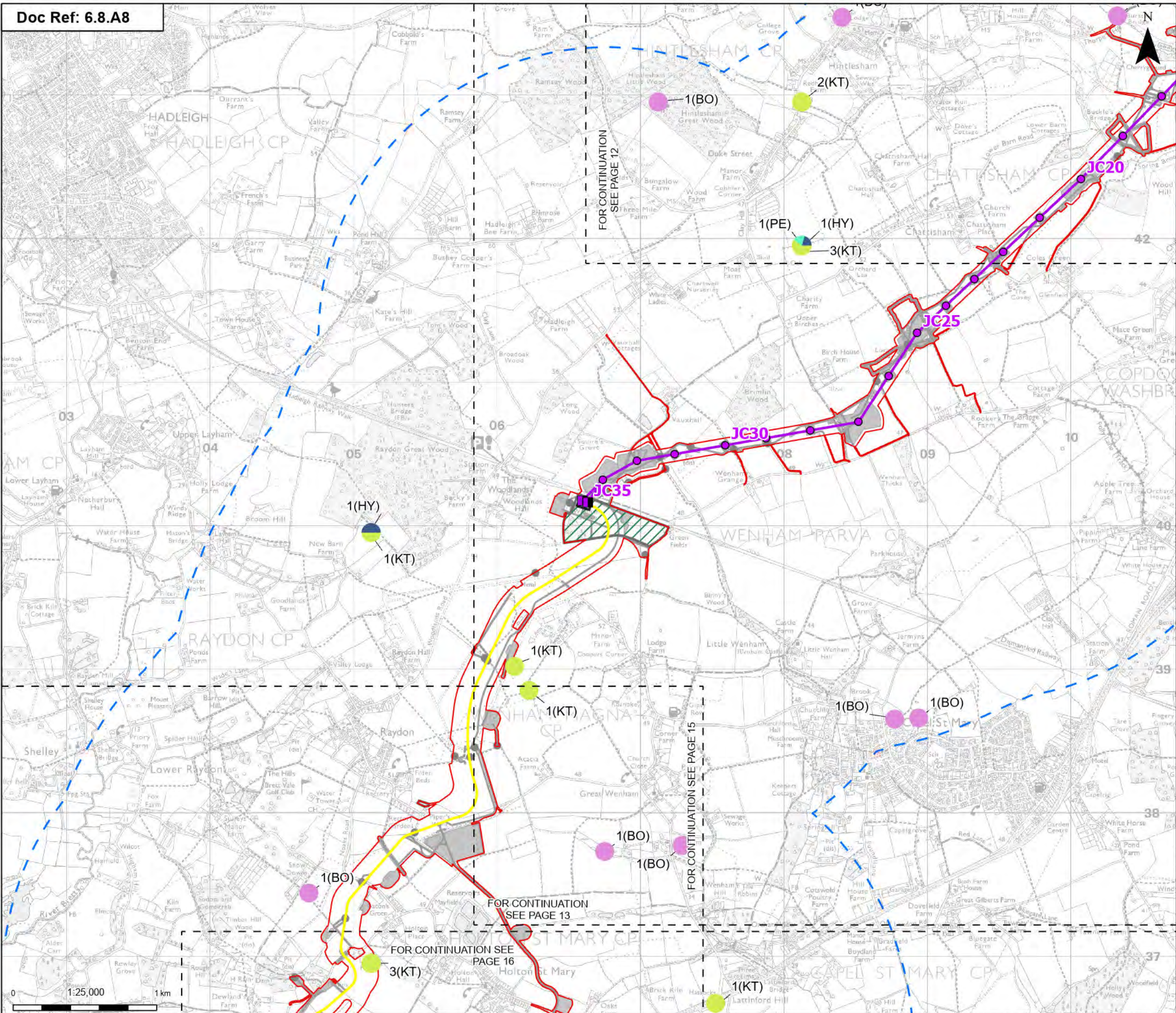
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Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 8 of 31

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

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00322	Revision: A
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Order limits
Sheet index outline

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 target species - Raptors & Owls total abundance (desk study data 2013-2022)

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
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- Snowy owl (SO)
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PROJECT:
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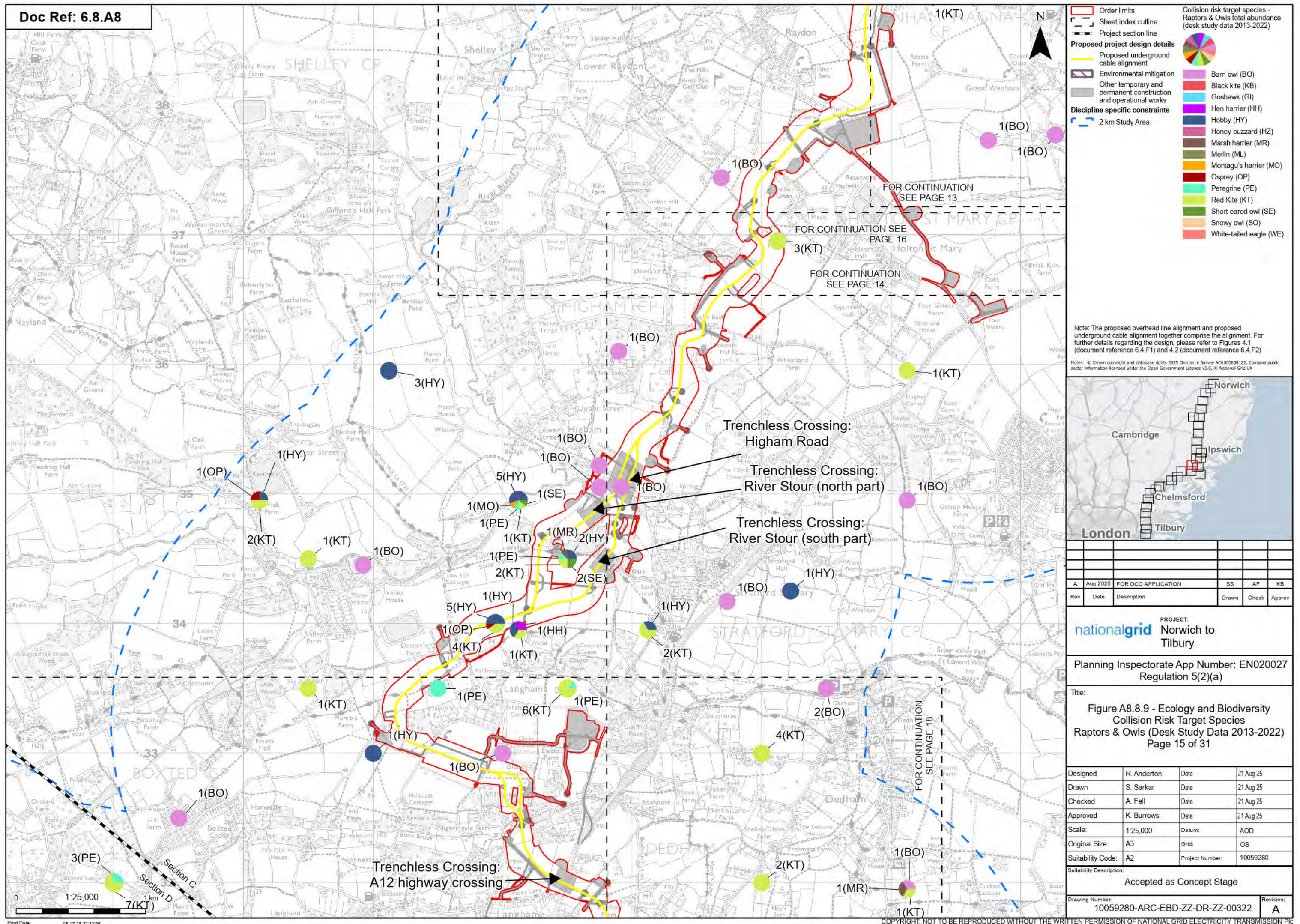
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Regulation 5(2)(a)

Title:
Figure A8.8.9 - Ecology and Biodiversity
Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 14 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

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00322	Revision: A
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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)

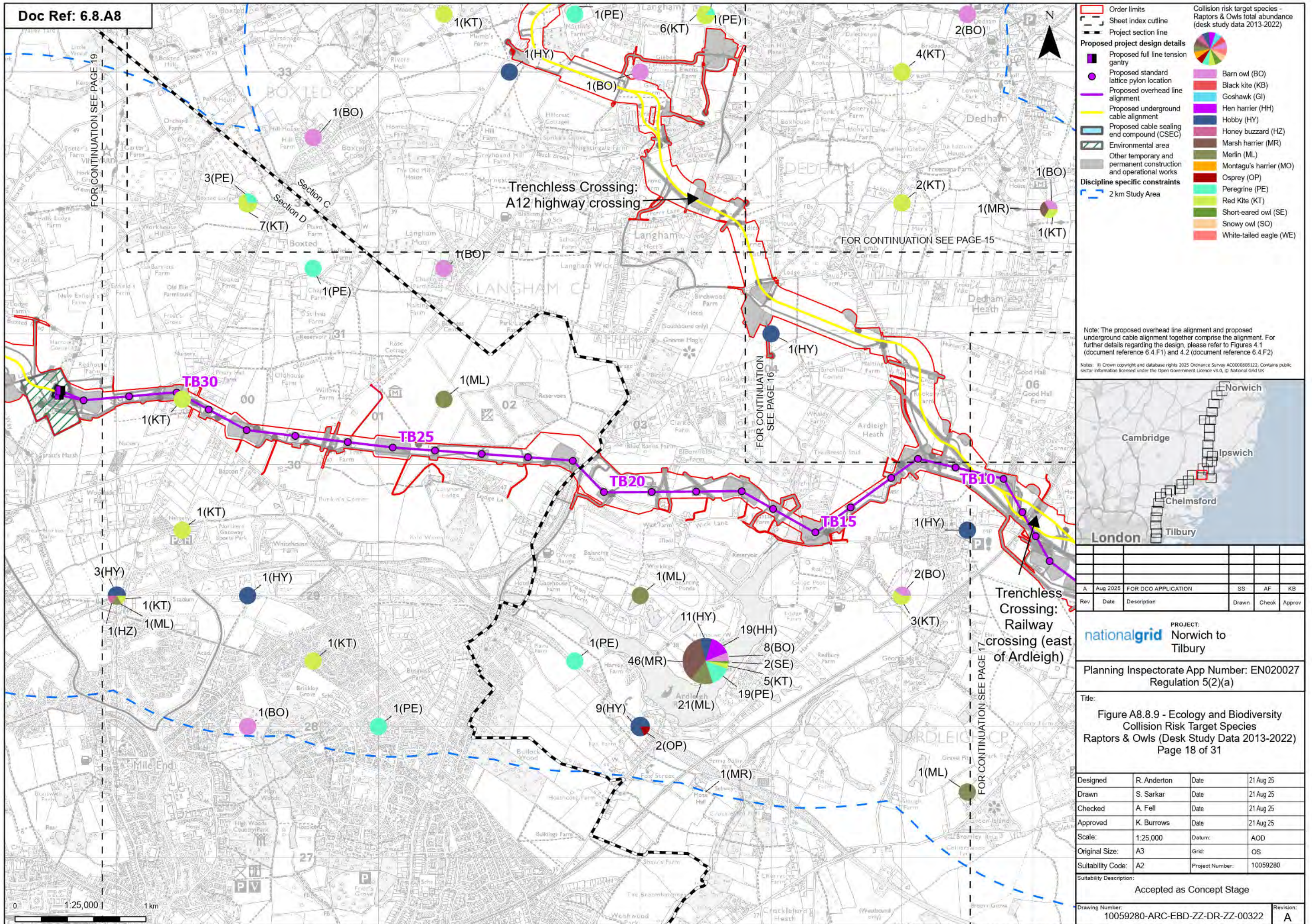
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Collision Risk Target Species
Raptors & Owls (Desk Study Data 2013-2022)
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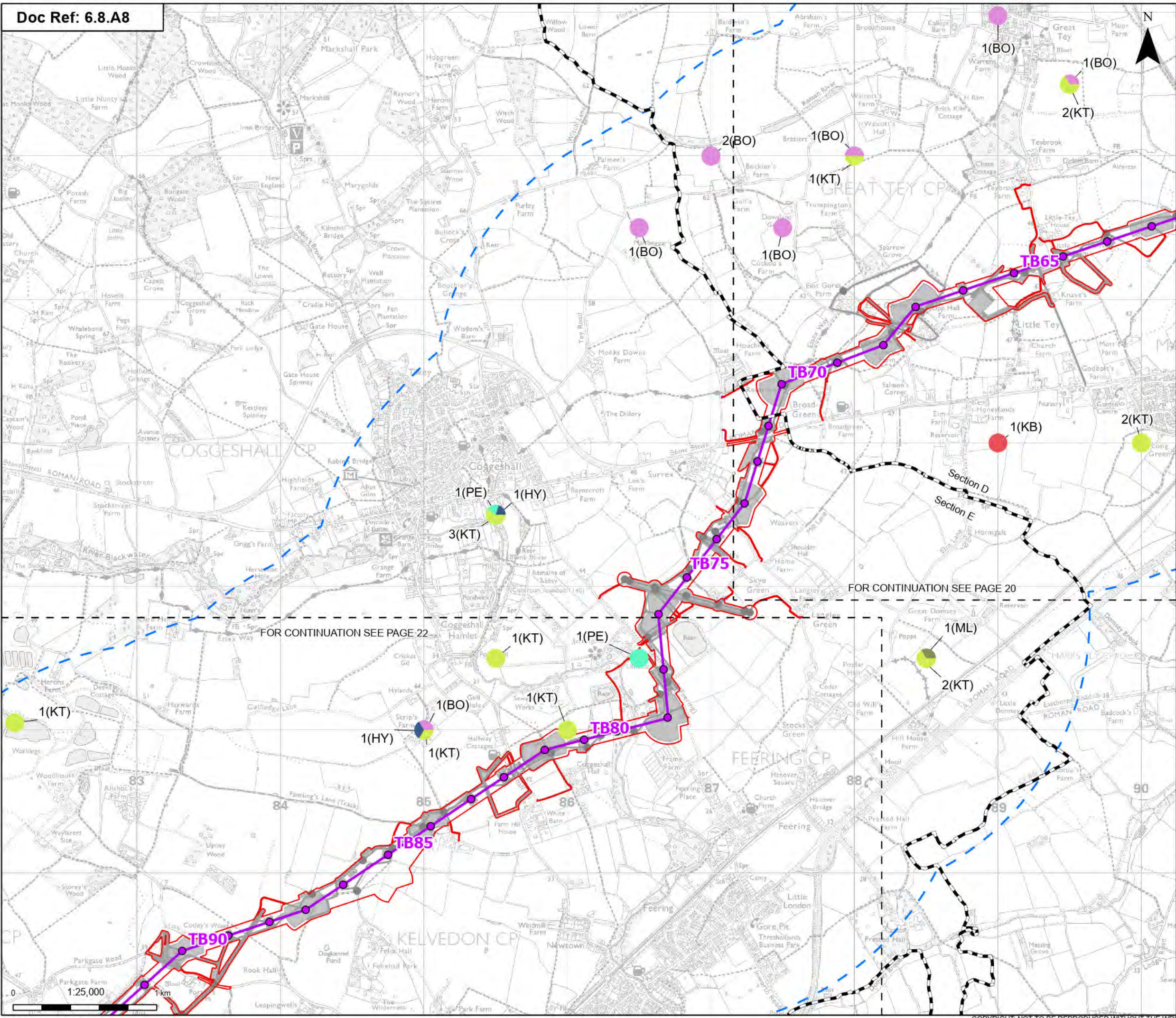
Designed	R. Anderton	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

Drawing Number:	Revision:
10059280-ARC-EBD-ZZ-DR-ZZ-00322	A





Order limits
Sheet index outline
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 target species - Raptors & Owls total abundance (desk study data 2013-2022)

- Barn owl (BO)
- Black kite (KB)
- Goshawk (GI)
- Hen harrier (HH)
- Hobby (HY)
- Honey buzzard (HZ)
- Marsh harrier (MR)
- Merlin (ML)
- Montagu's harrier (MO)
- Osprey (OP)
- Peregrine (PE)
- Red Kite (KT)
- Short-eared owl (SE)
- Snowy owl (SO)
- White-tailed eagle (WE)

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)



Rev	Date	Description	Drawn	Check	Approv
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PROJECT: **Norwich to Tilbury**

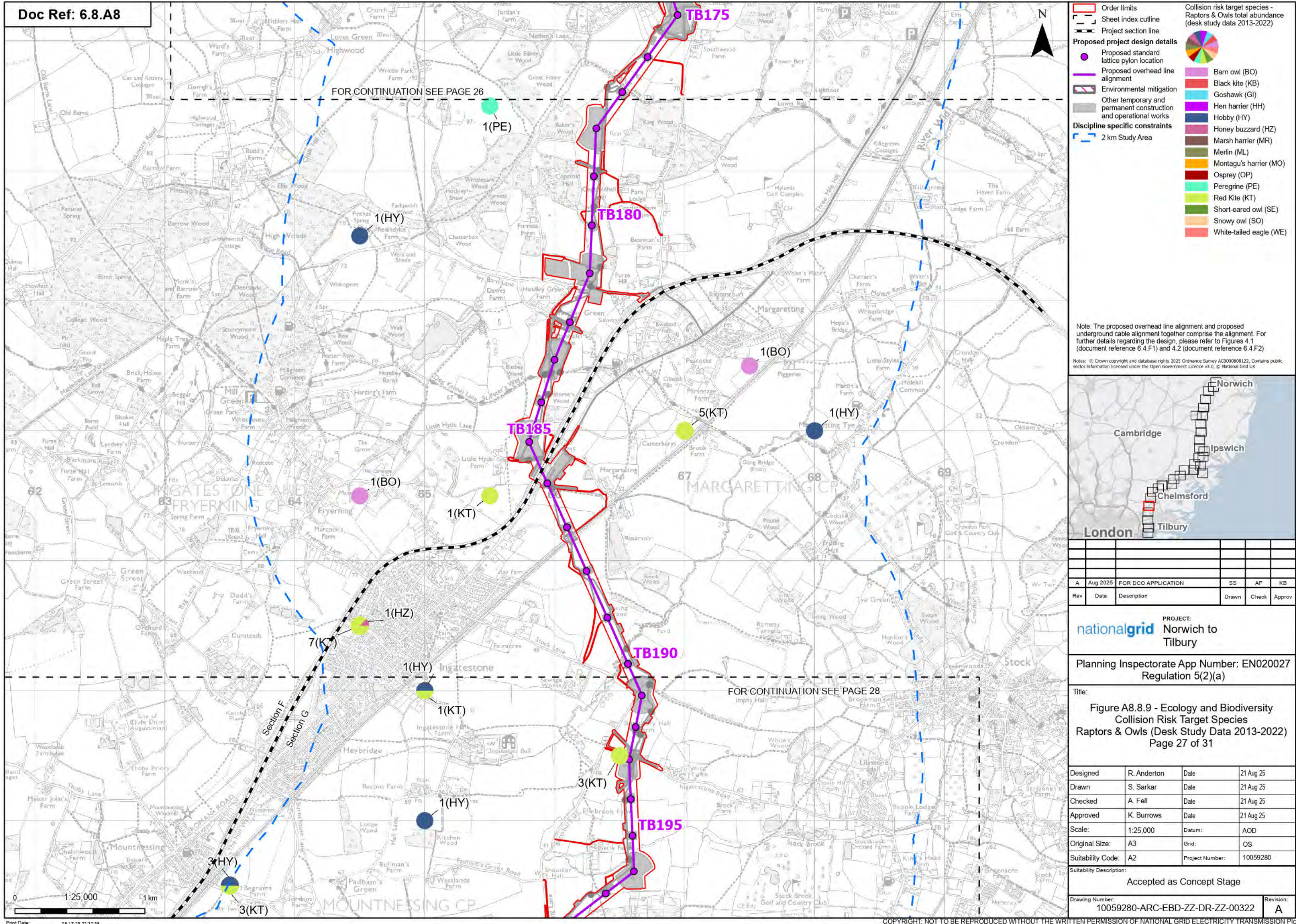
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Regulation 5(2)(a)

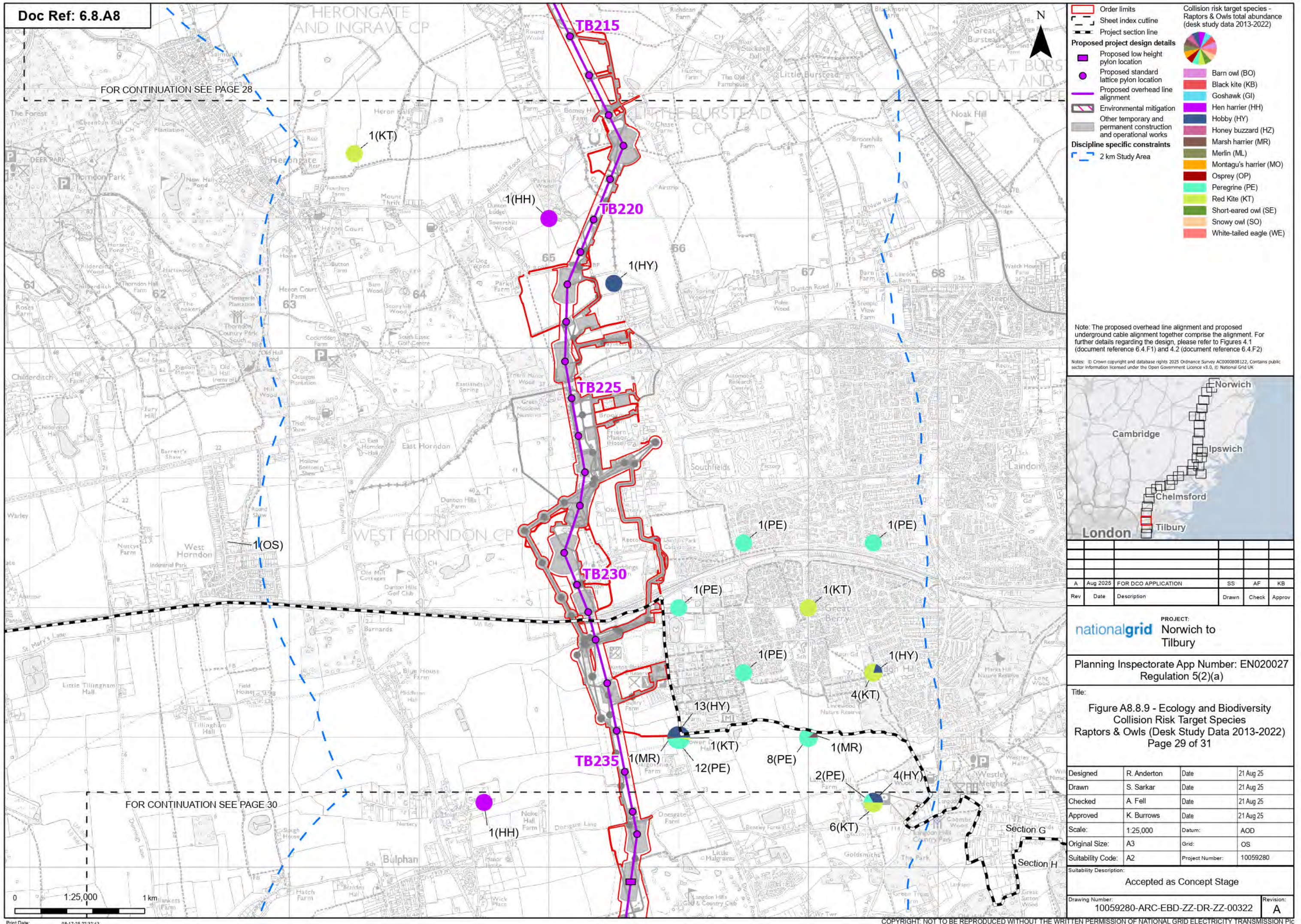
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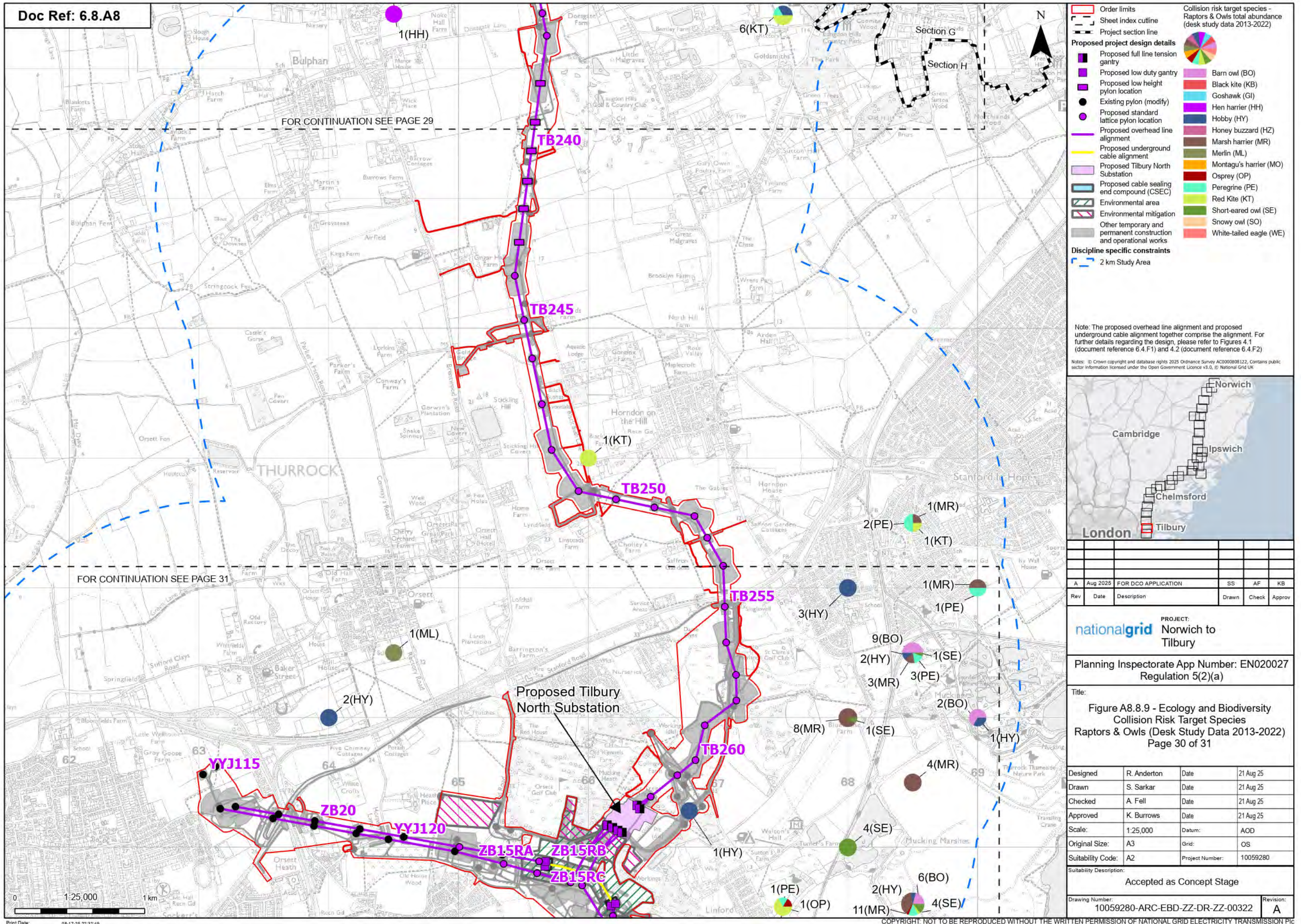
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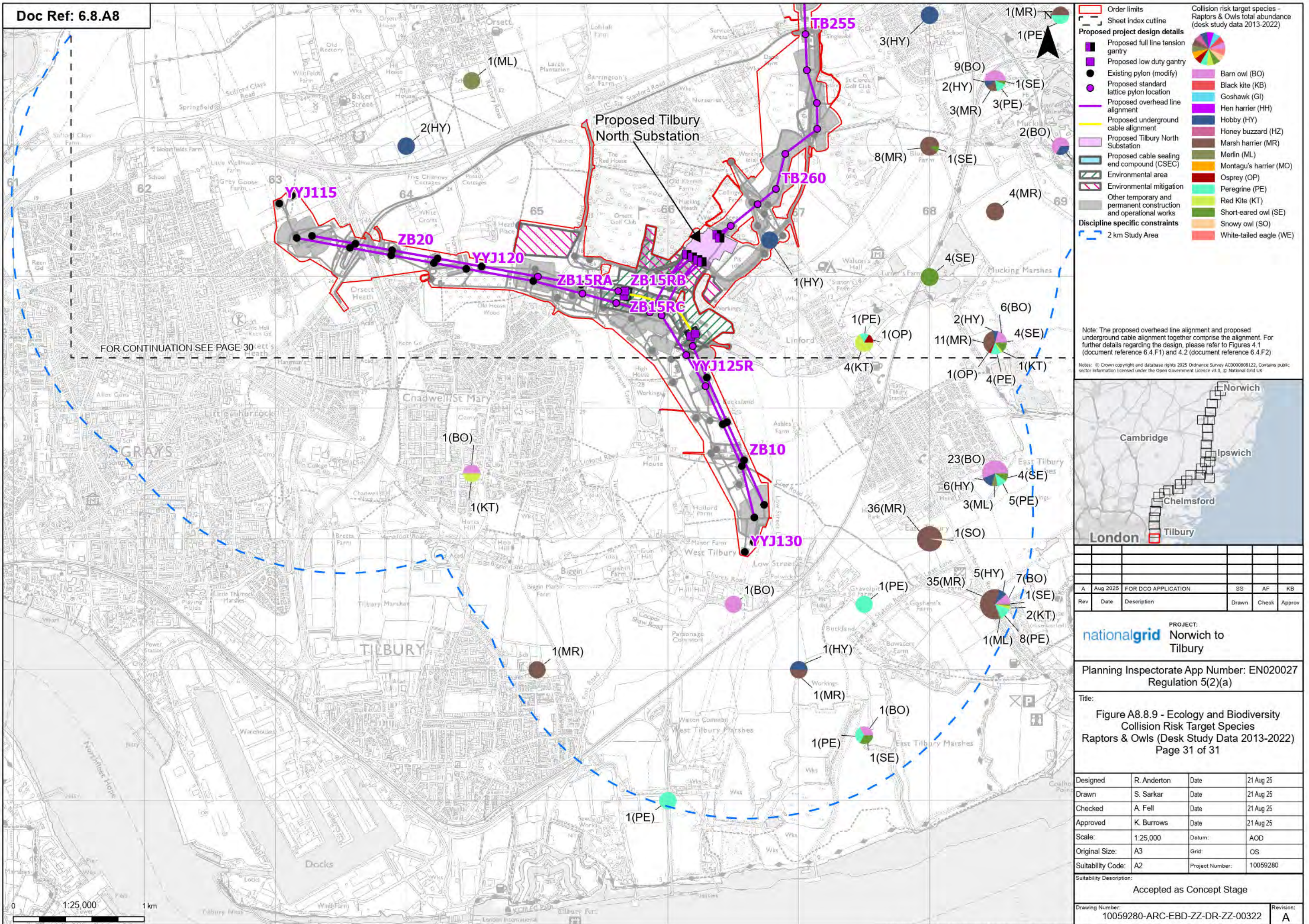
Suitability Description: **Accepted as Concept Stage**

Drawing Number: **10059280-ARC-EBD-ZZ-DR-ZZ-00322** Revision: **A**









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