AENC-ARC-ENV-REP-0155

Norwich to Tilbury

Volume 6: Environmental Statement

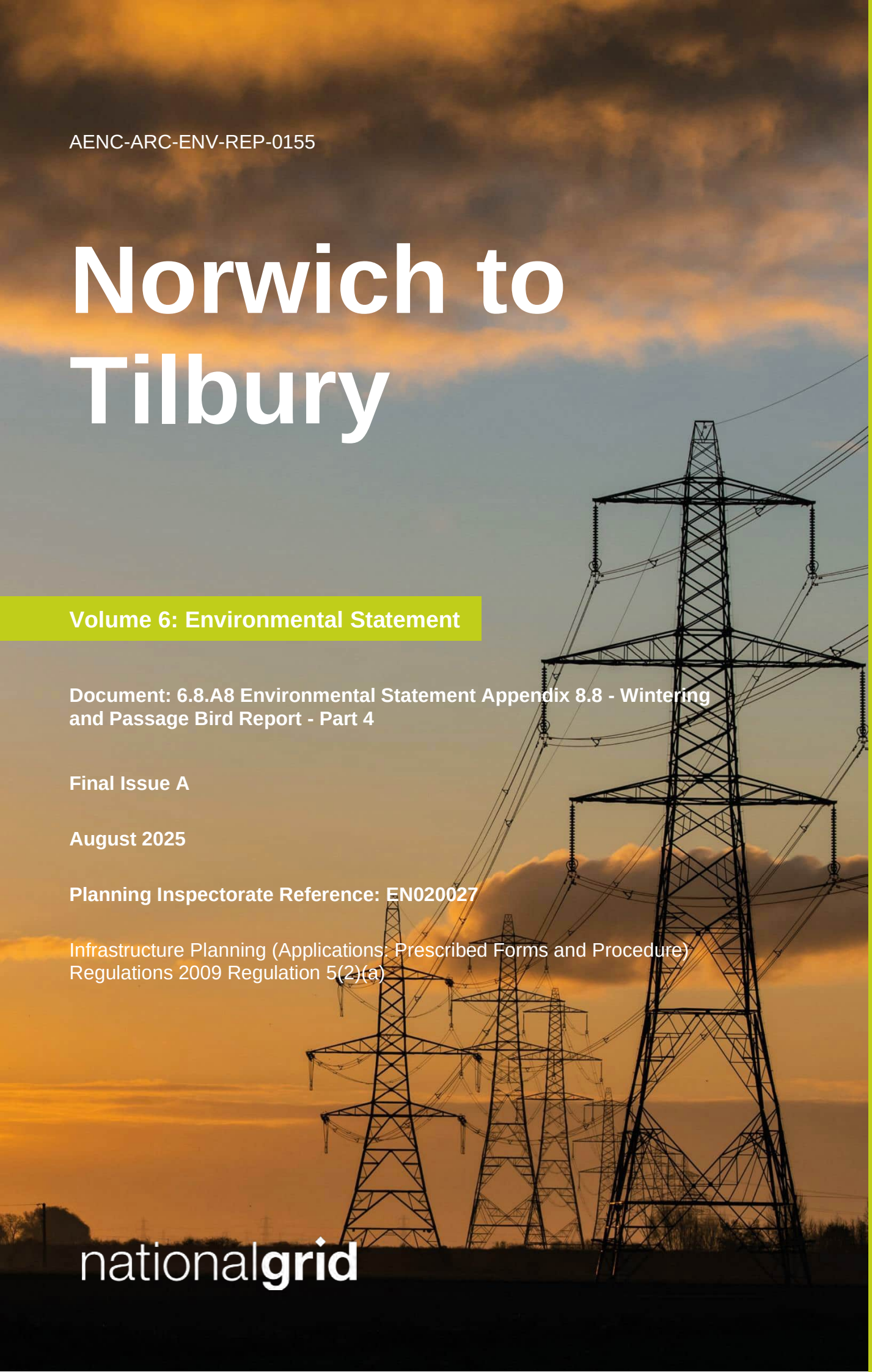
Document: 6.8.A8 Environmental Statement Appendix 8.8 - Wintering and Passage Bird Report - Part 4

Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

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



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Annex A. Figures

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PROJECT:
Norwich to Tilbury

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

Title:

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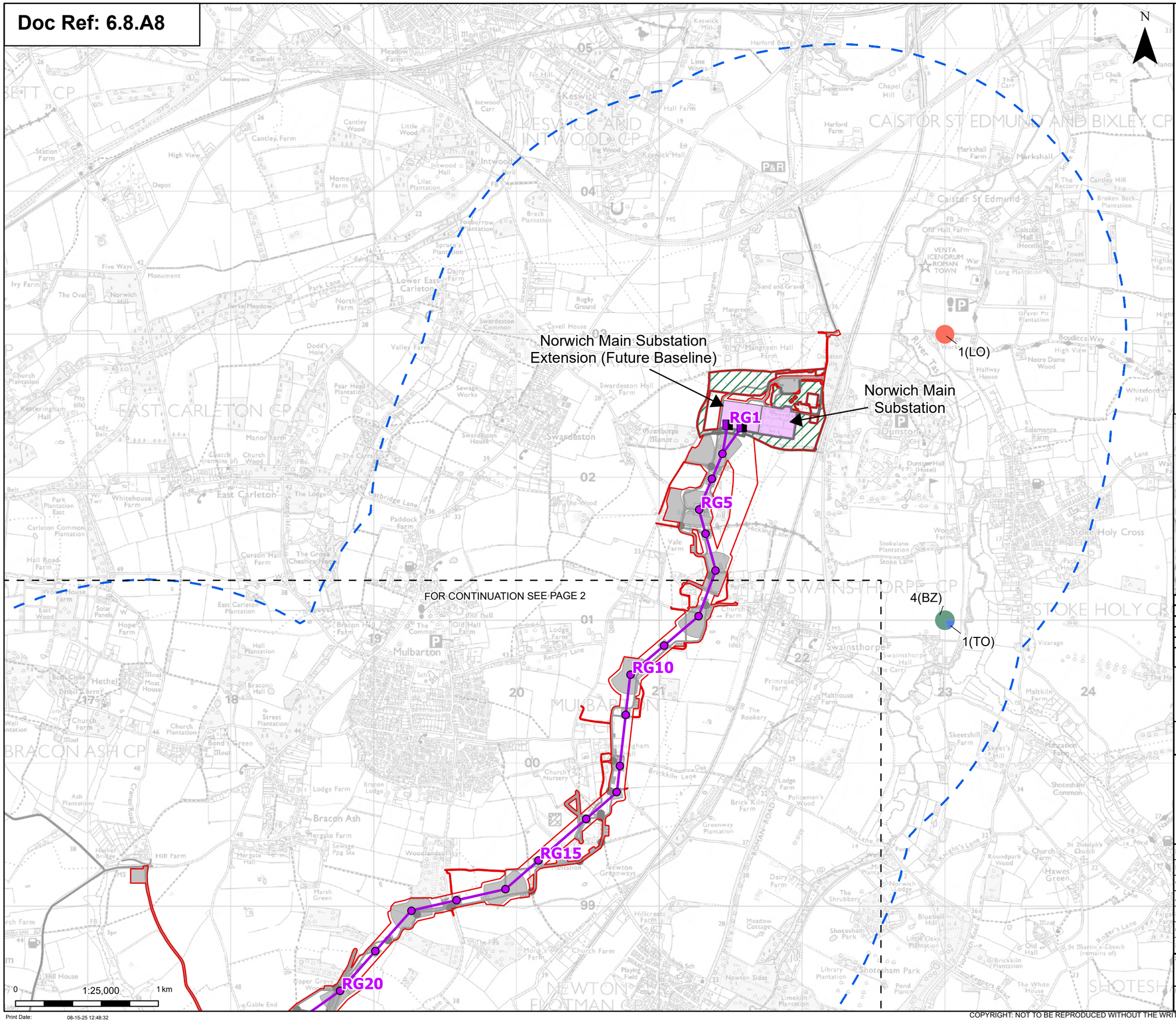

Order limits
Sheet index cutline

Proposed project design details

Proposed full line tension gantry
Proposed standard lattice pylon location
Proposed overhead line alignment
Norwich Main Substation
Norwich Main Substation Extension (future baseline)
Environmental area
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 1 of 31

Designed	R. Anderton	Date	21 Aug 25
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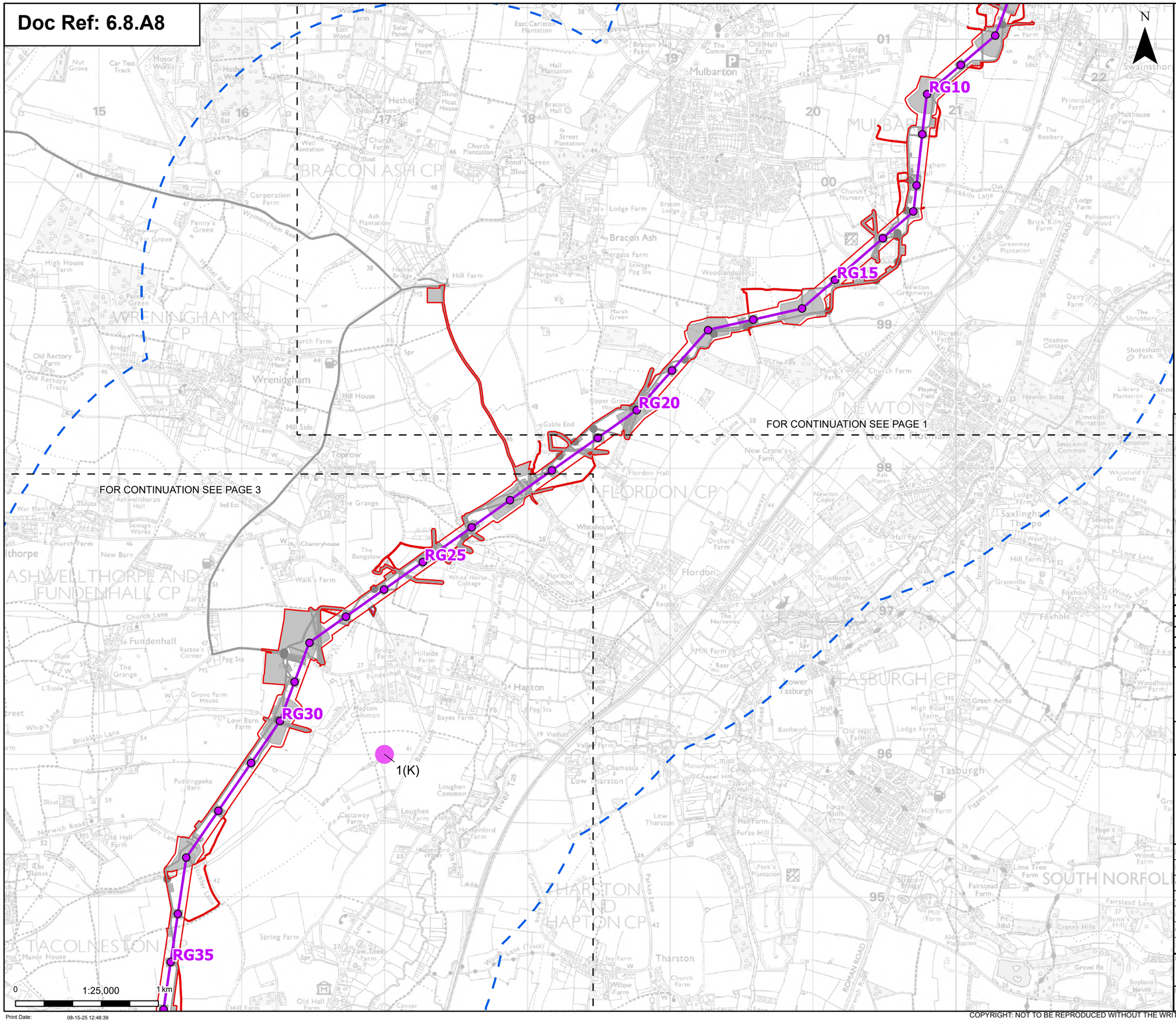

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

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

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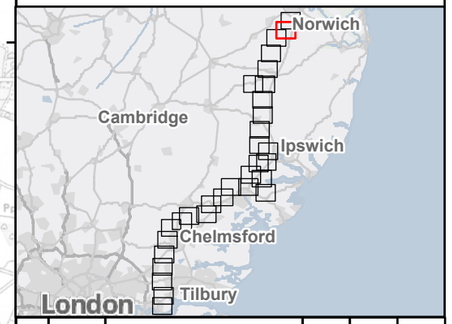

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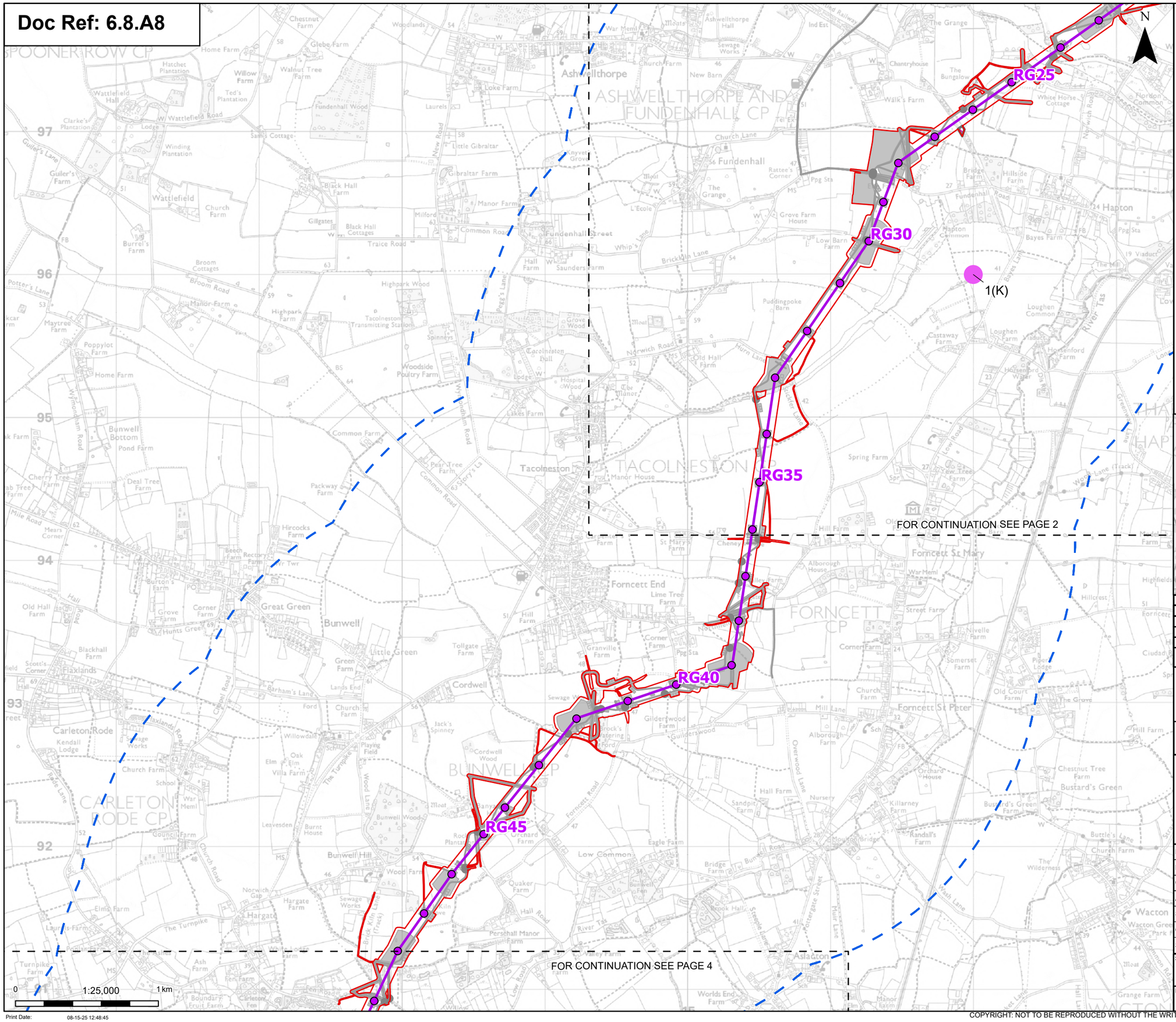

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Proposed project design details

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Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

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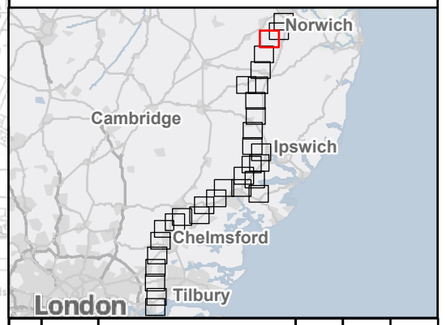

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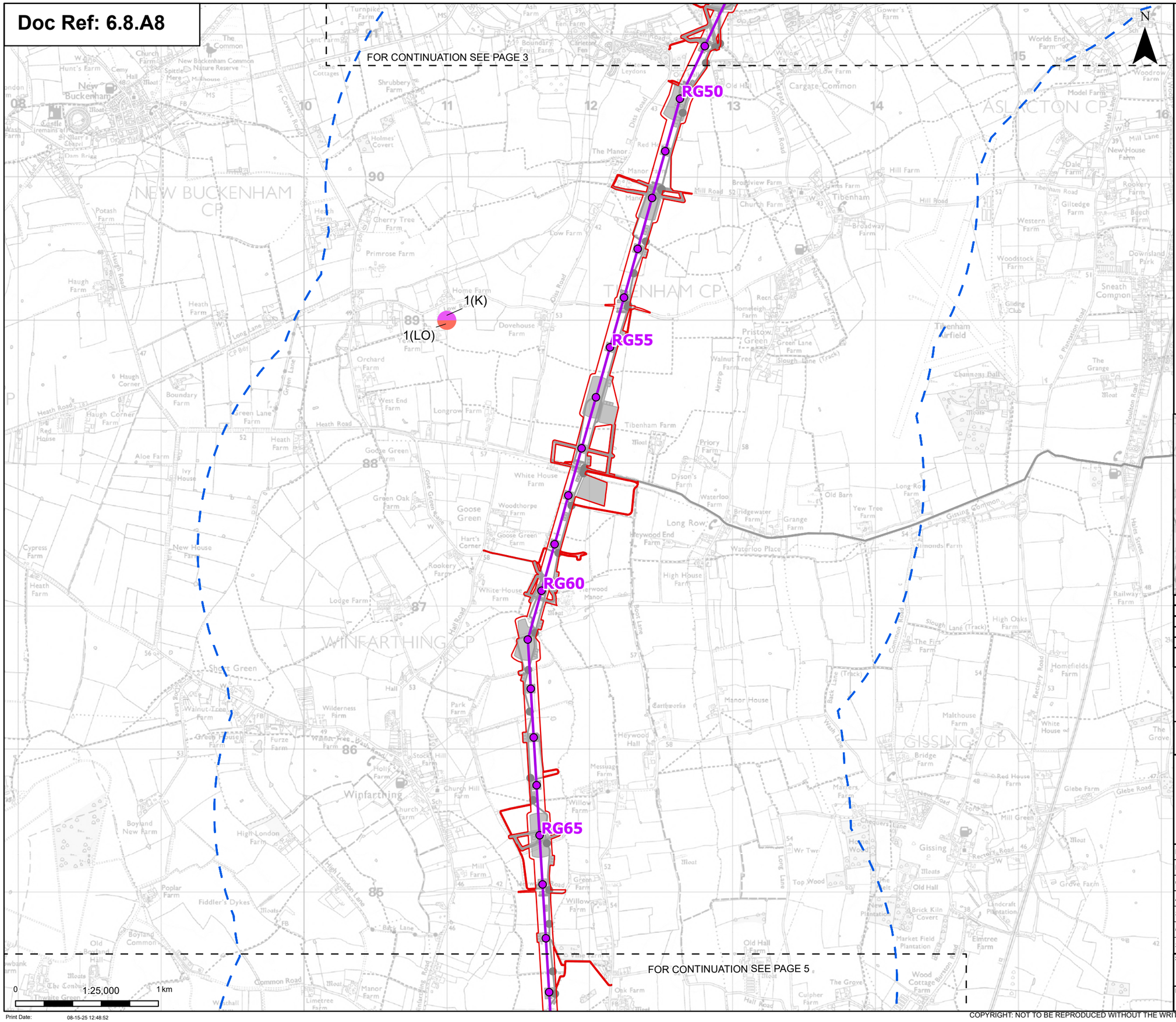

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Proposed project design details

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

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Norwich to Tilbury

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Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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FOR CONTINUATION SEE PAGE 7

FOR CONTINUATION SEE PAGE 6

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RG75
RG80
RG85
RG90

1(TO)
1(SH)
1(K)
1(LO)
1(K)
1(BZ)
1(K)
1(SH)
2(K)
1(K)
1(SH)
1(SH)

Section A
Section B

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Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

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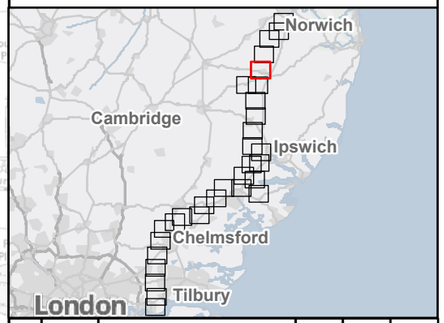

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PROJECT: Norwich to Tilbury

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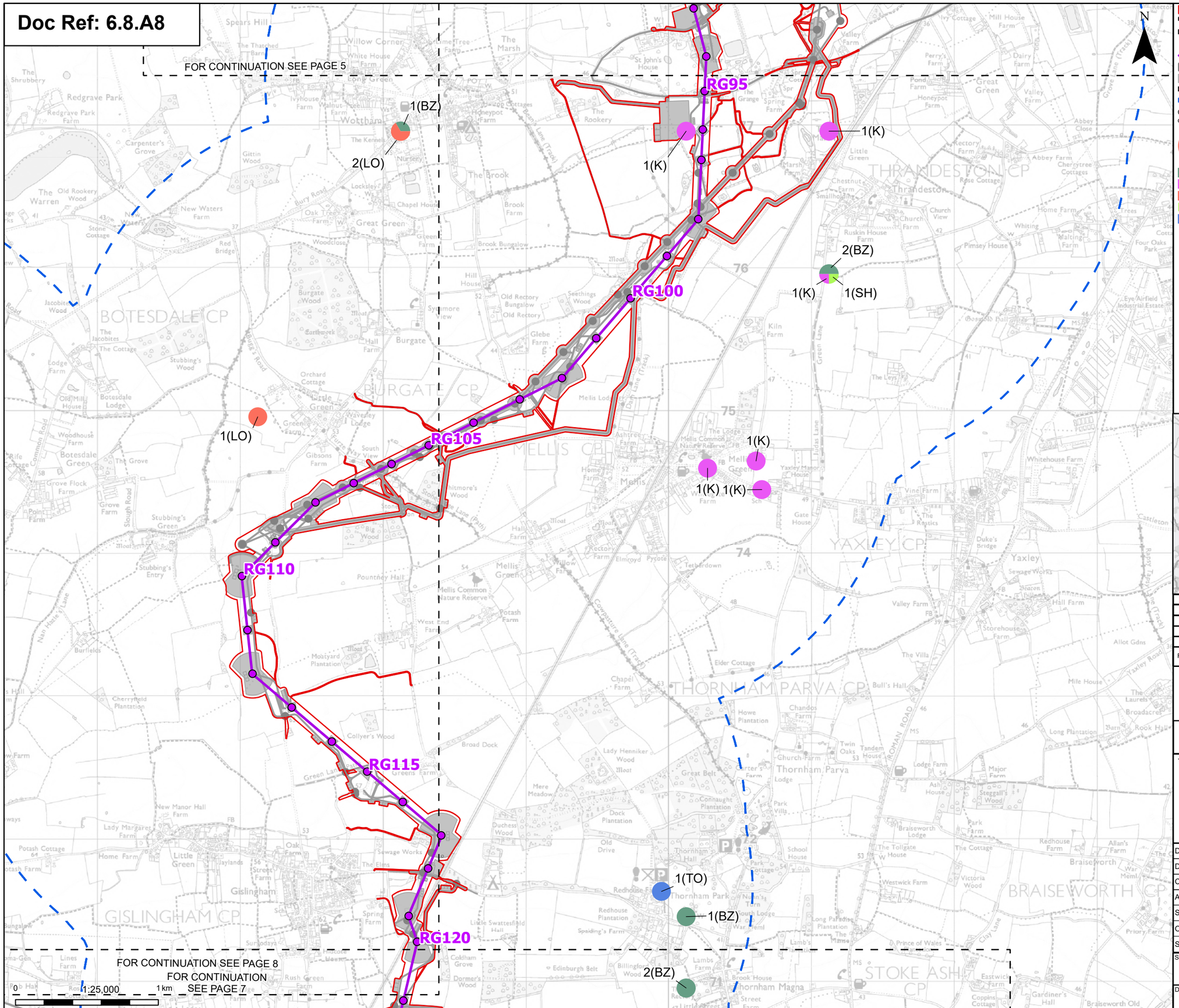

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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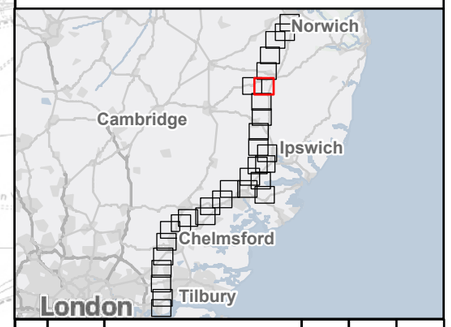

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PROJECT: Norwich to Tilbury

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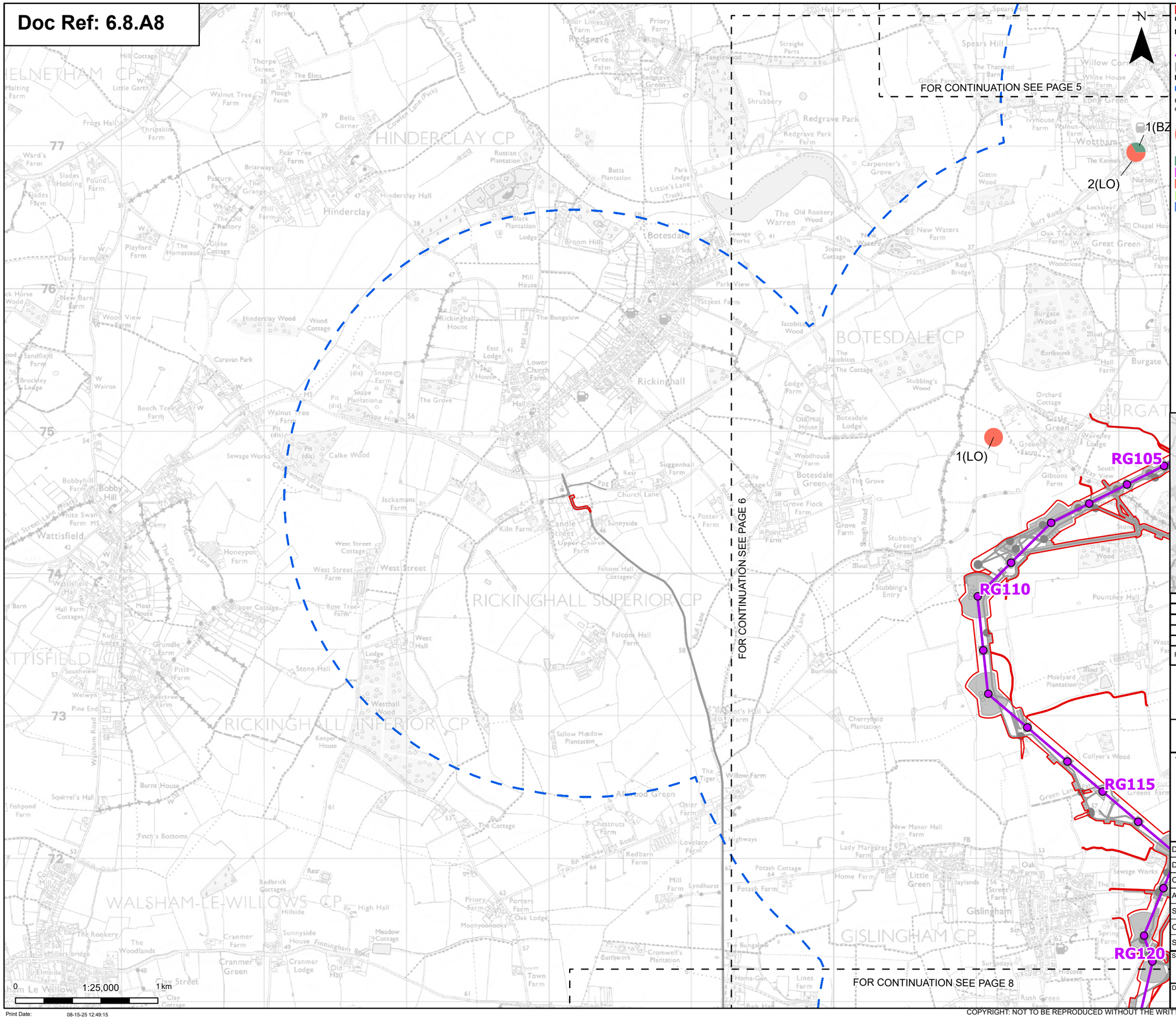

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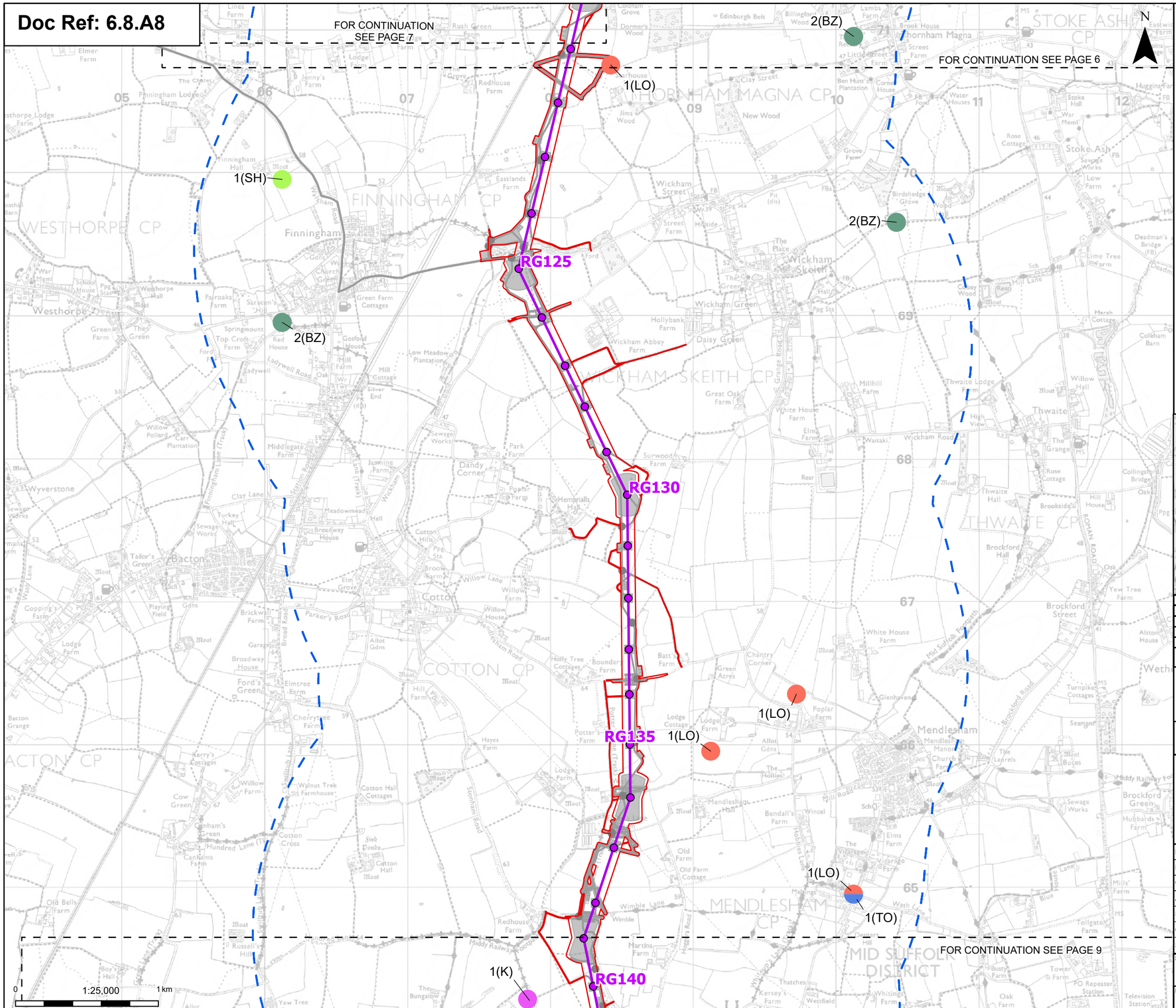

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PROJECT: Norwich to Tilbury

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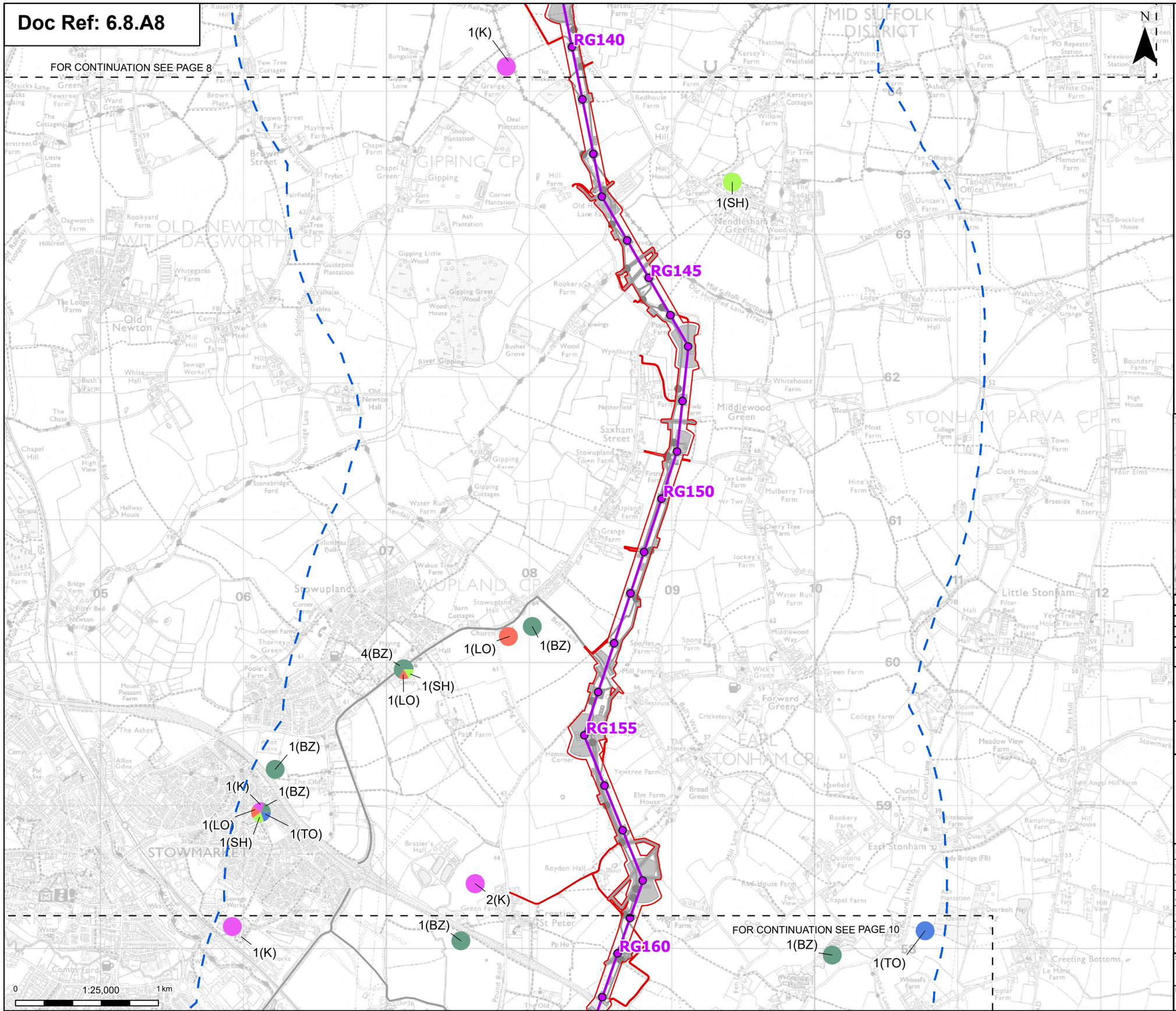
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STOWMARKET
STONHAM PARVA CP
EARL STONHAM CP
MID SUFFOLK DISTRICT
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Mendlesham Green
Stowupland
Little Stonham
Forward Green
Creeting St Peter
Creeting Bottoms
Gipping
Brown Street
Old Newton
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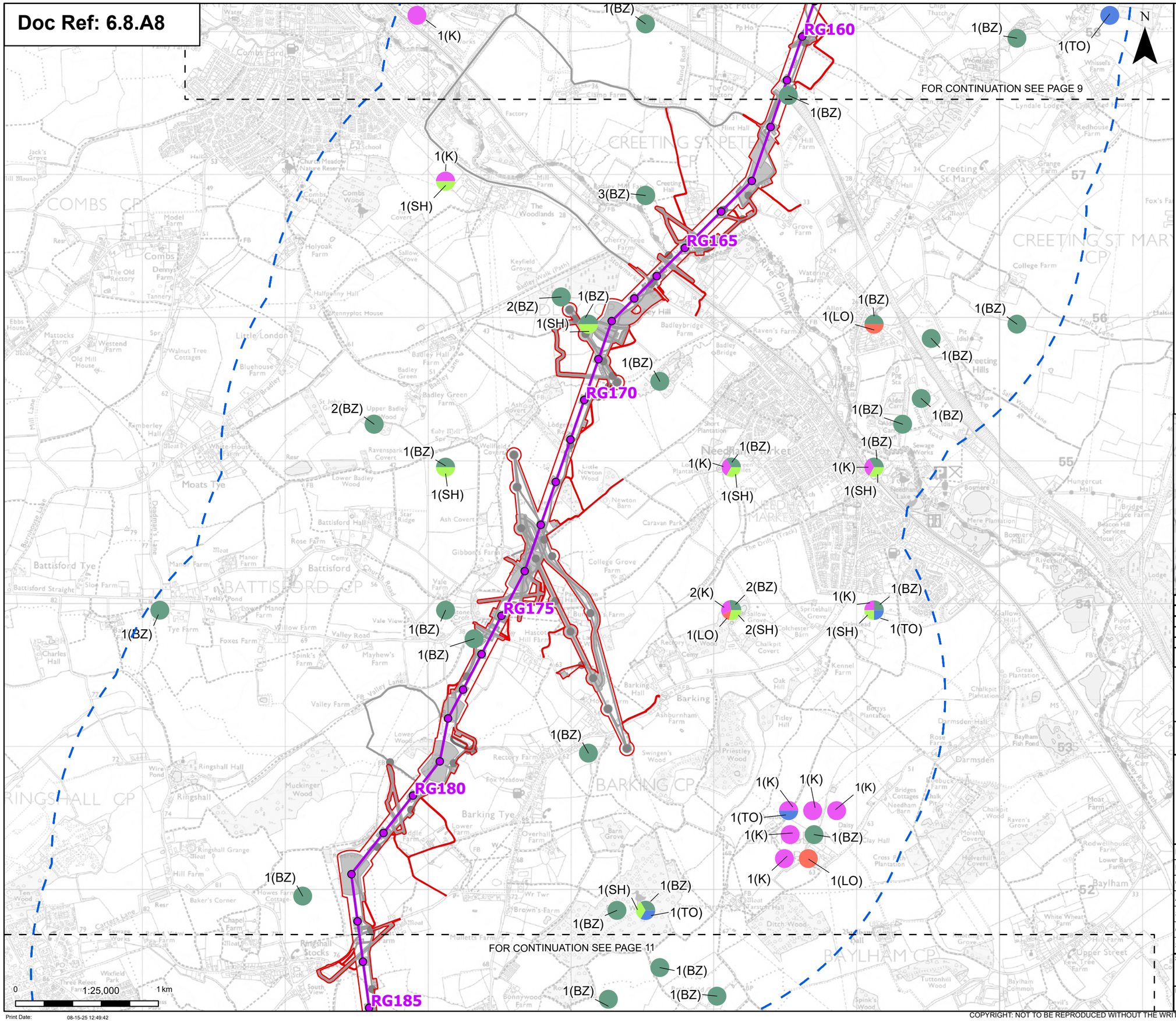

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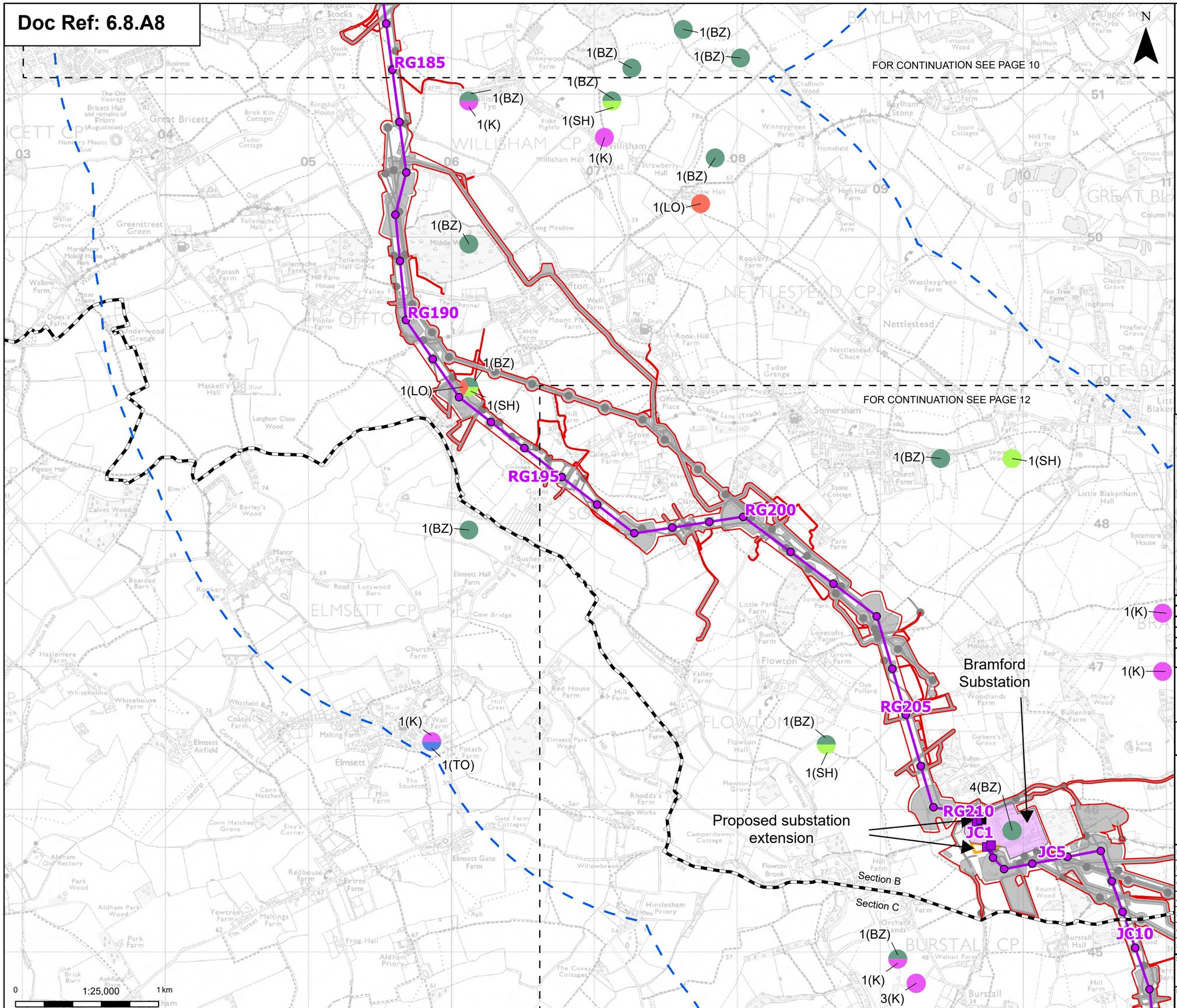

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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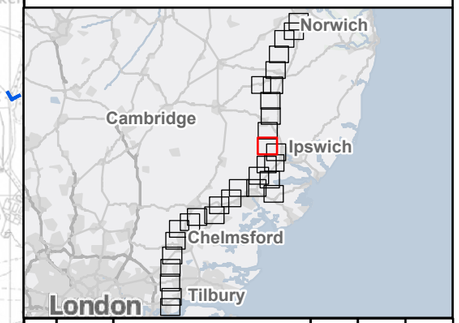

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Description:
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RG195
RG200
RG205
RG210
JC1
JC5
JC10
JC15
JC20

Bramford Substation

Proposed substation extension

1(BZ)
1(SH)
1(K)
1(LO)
2(K)
2(TO)
3(K)
4(BZ)
4(LO)
2(BZ)
3(BZ)
1(TO)
3(SH)

Section B
Section C

FOR CONTINUATION SEE PAGE 11
FOR CONTINUATION SEE PAGE 13
FOR CONTINUATION SEE PAGE 14

Somersham
Little Blakenham
Flowton
Bramford
Whitton
Burstall
Hintlesham
Sproughton
Chattisham
Washbrook
Westbourne

0 1:25,000 1 km

Print Date: 08-15-25 12:49:59

N

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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Title:

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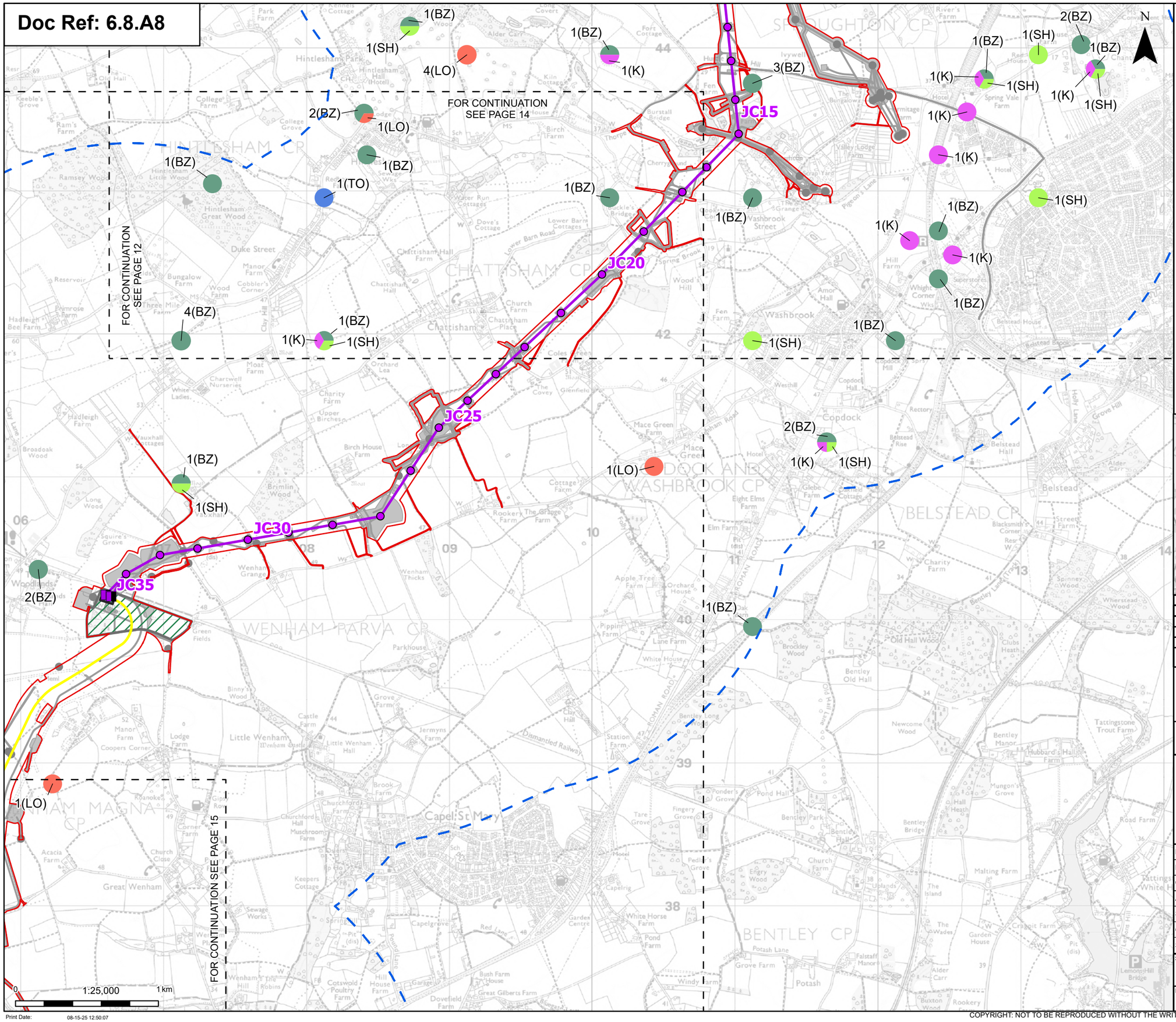

Order limits

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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

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)

Kestrel (K)

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Sparrowhawk (SH)

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PROJECT: Norwich to Tilbury

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Title:

Figure A8.8.14 - Ecology and Biodiversity Collision Risk Secondary Species Raptors & Owls (Desk Study Data 2013-2022) Page 13 of 31

Designed	R. Anderton	Date	21 Aug 25
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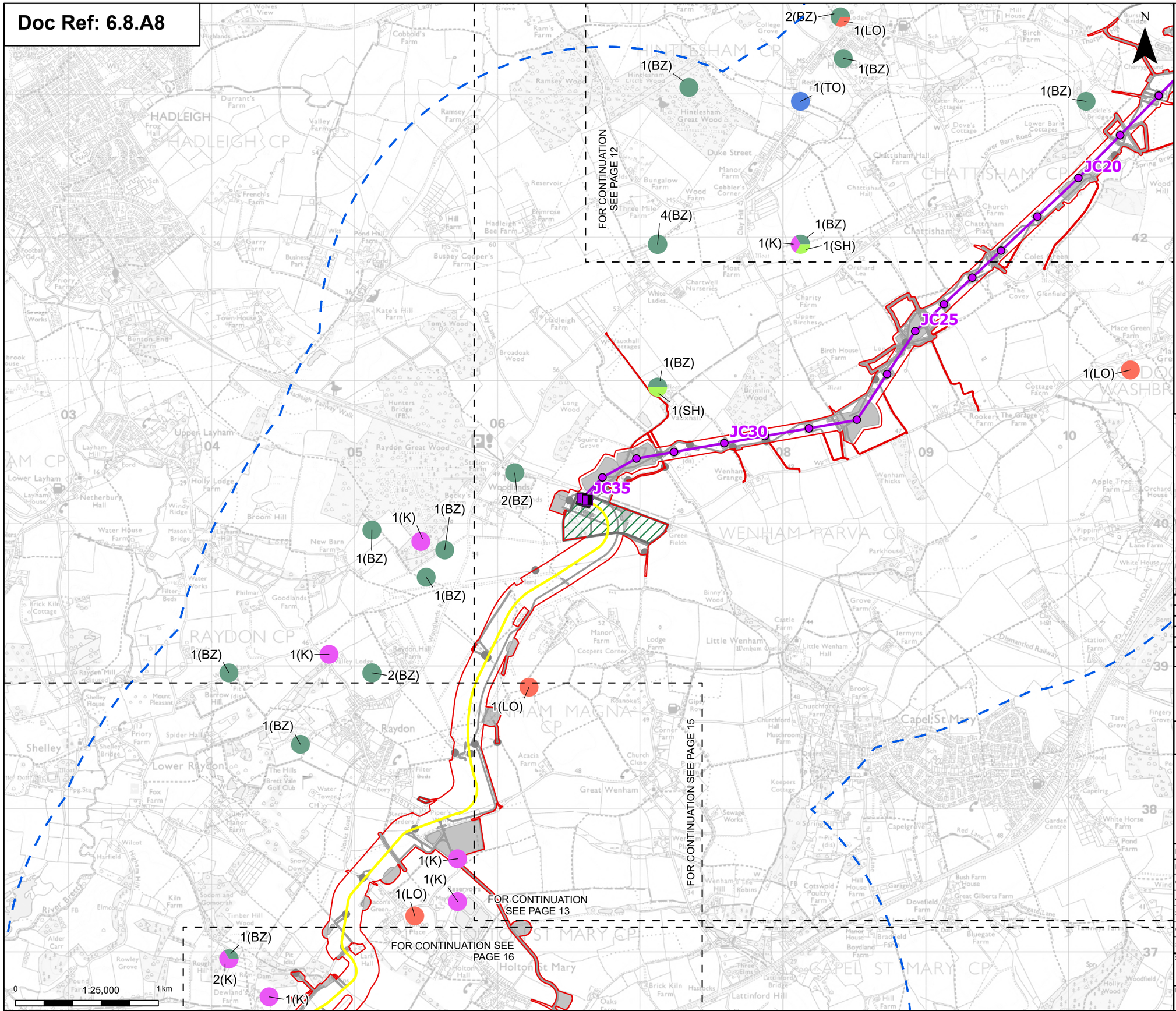

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
Kestrel (K)
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Sparrowhawk (SH)
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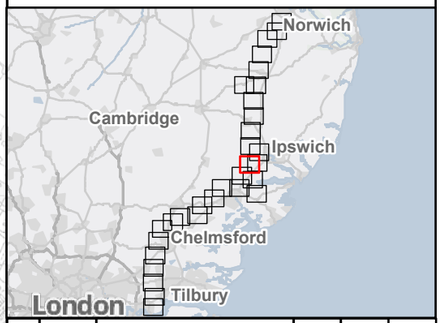

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PROJECT: Norwich to Tilbury

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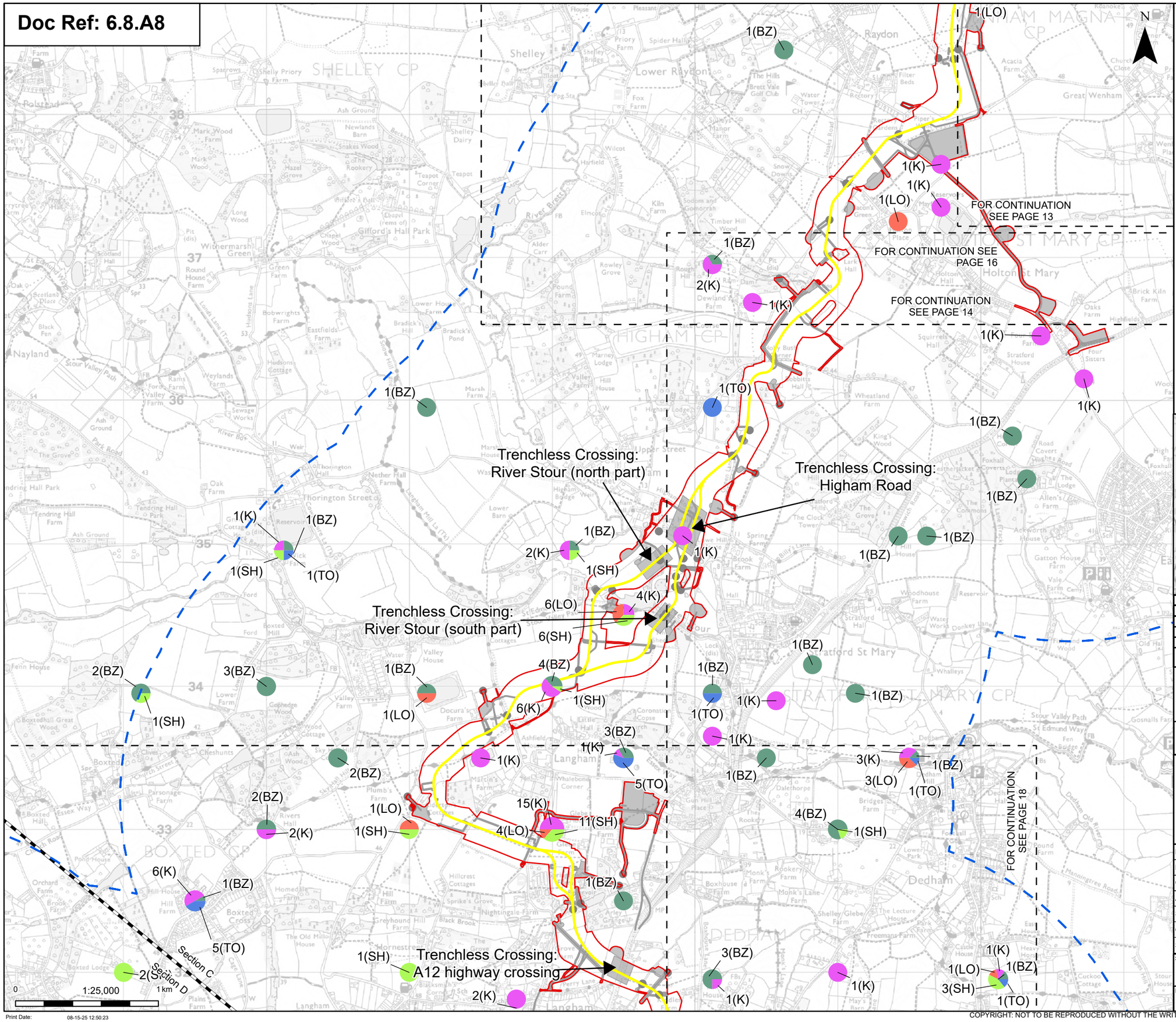

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
Kestrel (K)
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Title:

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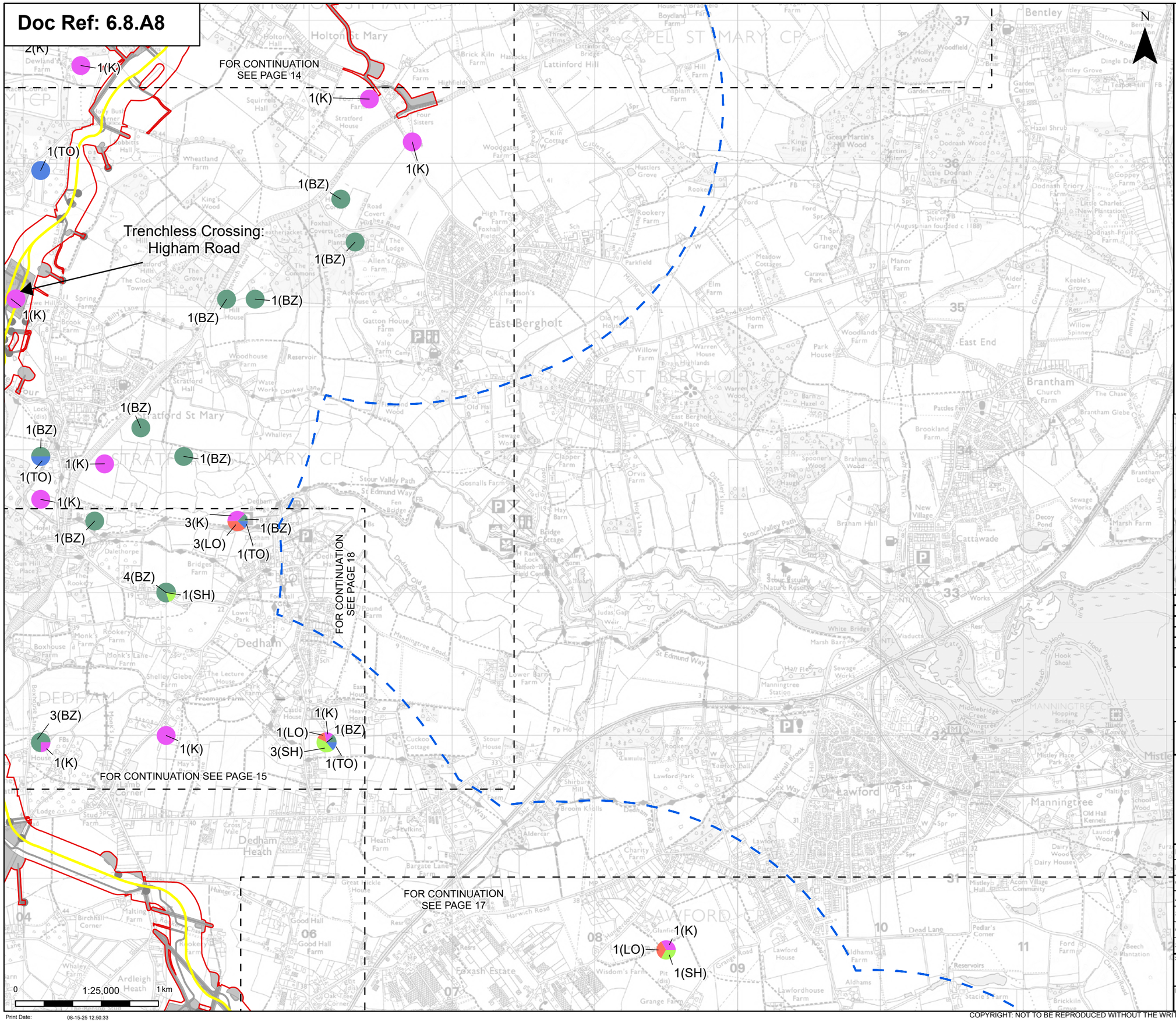

Order limits
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Proposed project design details

Proposed standard lattice pylon location
Proposed underground cable alignment
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

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

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PROJECT: Norwich to Tilbury

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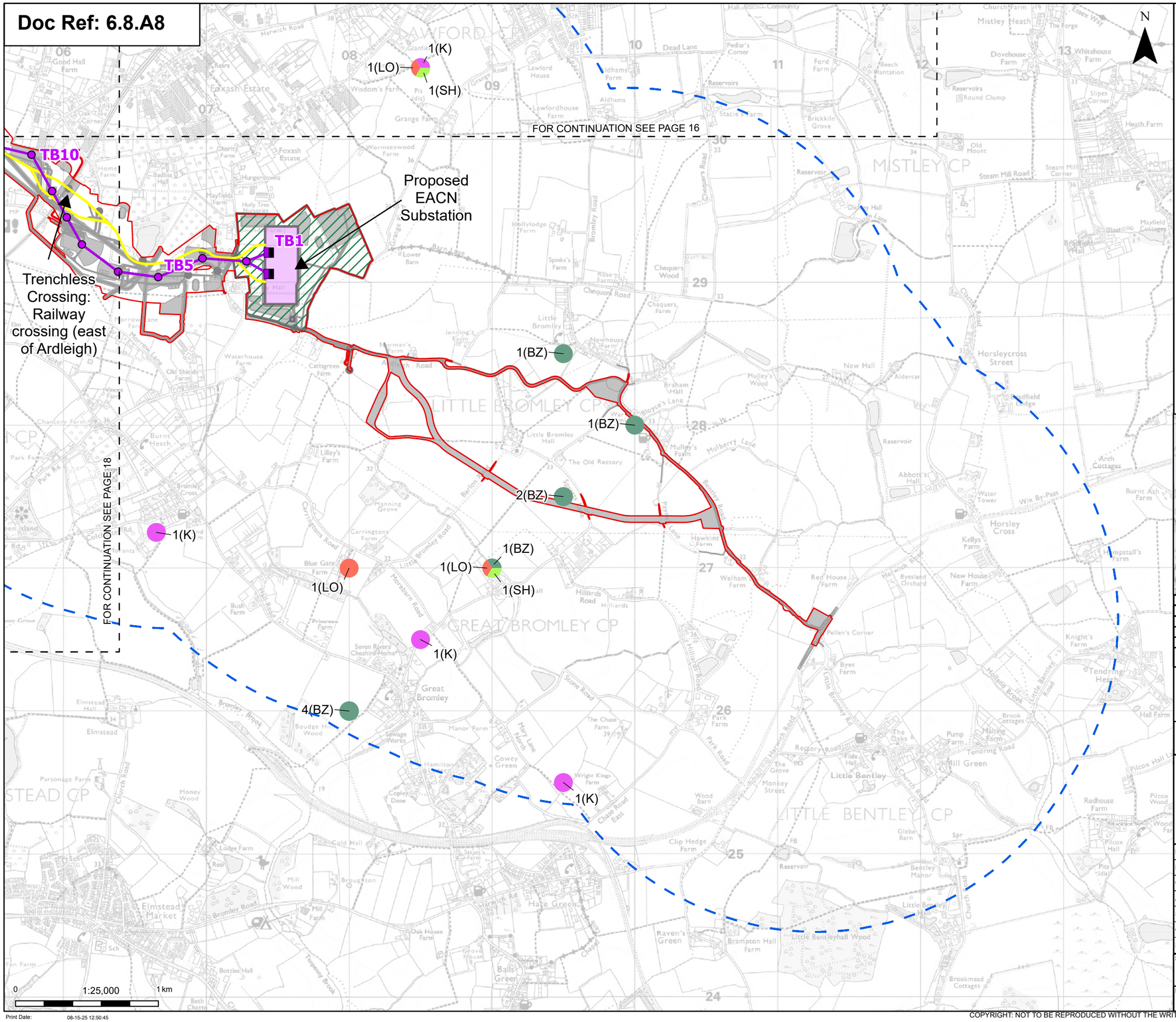

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Proposed full line tension gantry
Proposed standard lattice pylon location
Proposed overhead line alignment
Proposed underground cable alignment
Proposed DNO Substation
Proposed East Anglia Connection Node Substation (EACN)
Environmental area
Other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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity Collision Risk Secondary Species Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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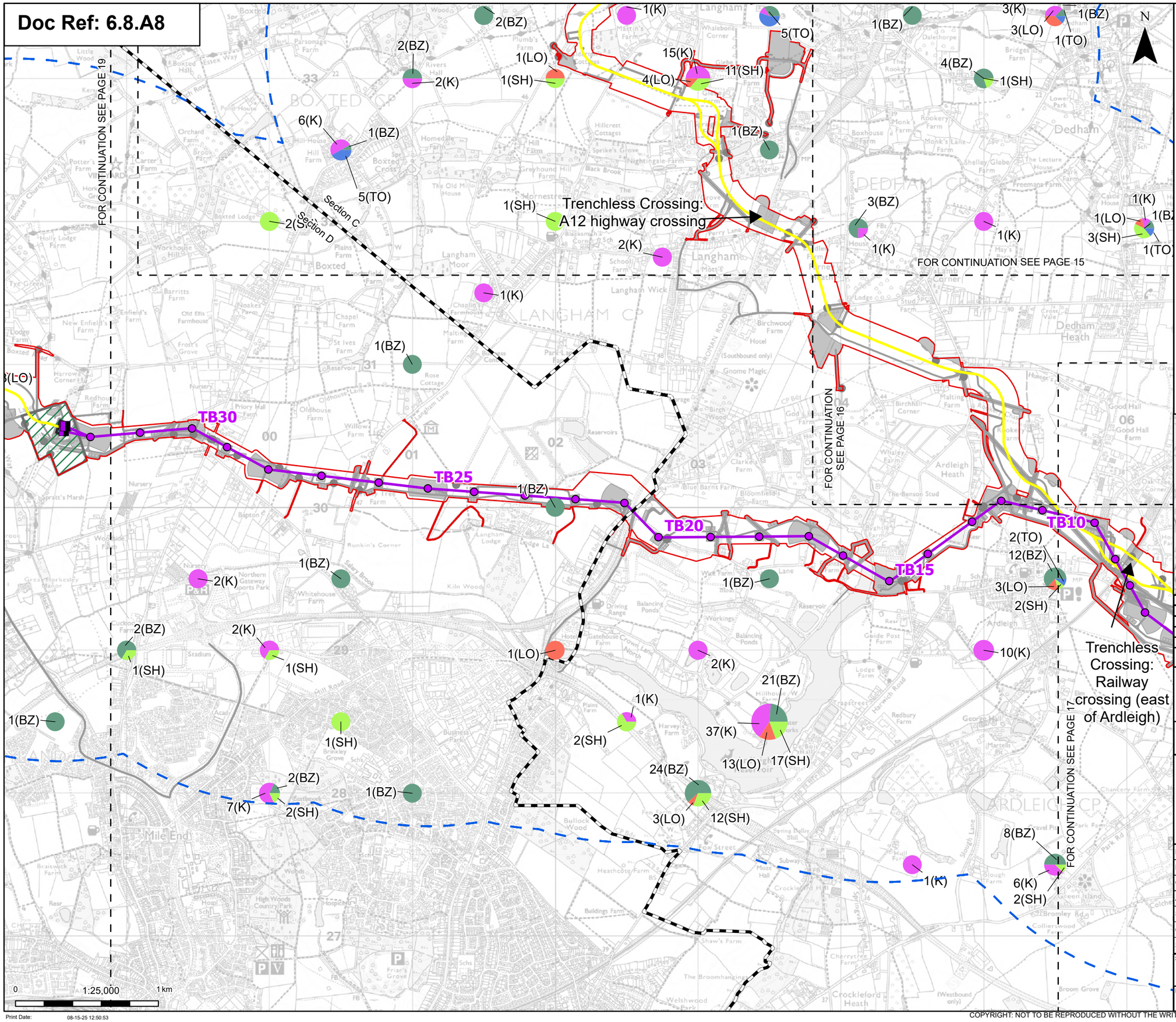

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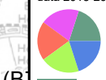
Proposed project design details

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
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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



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

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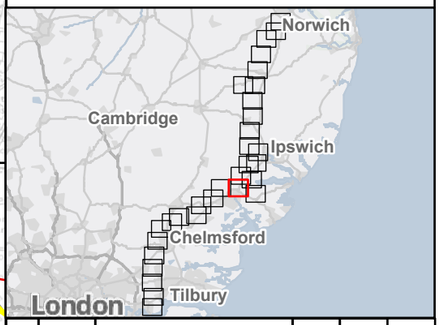

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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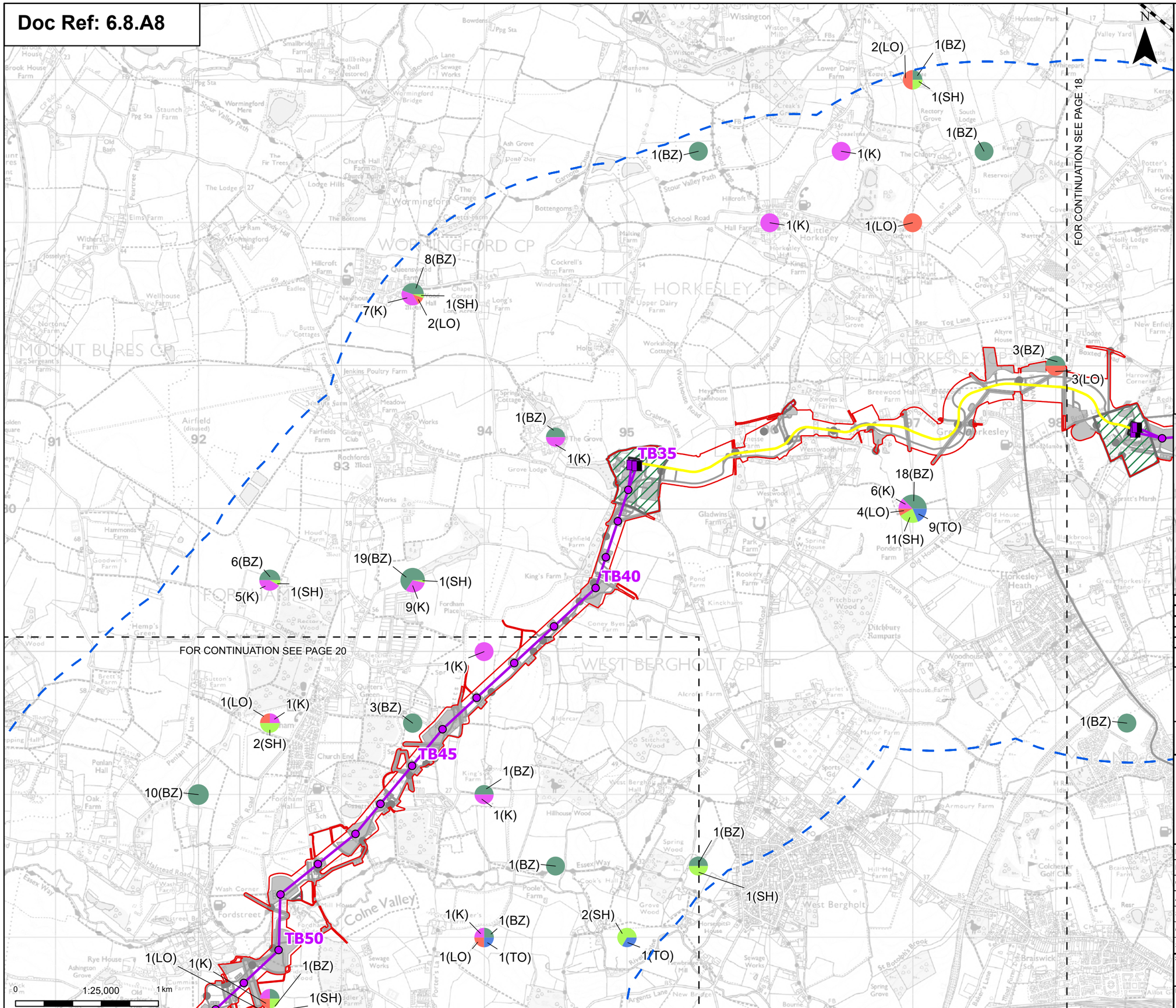

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
Kestrel (K)
Little owl (LO)
Sparrowhawk (SH)
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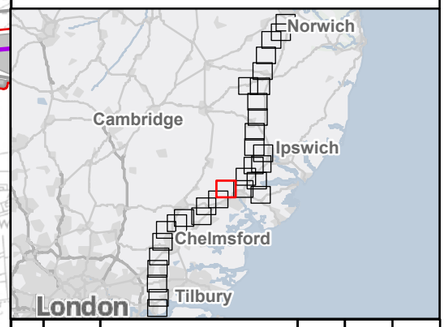

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Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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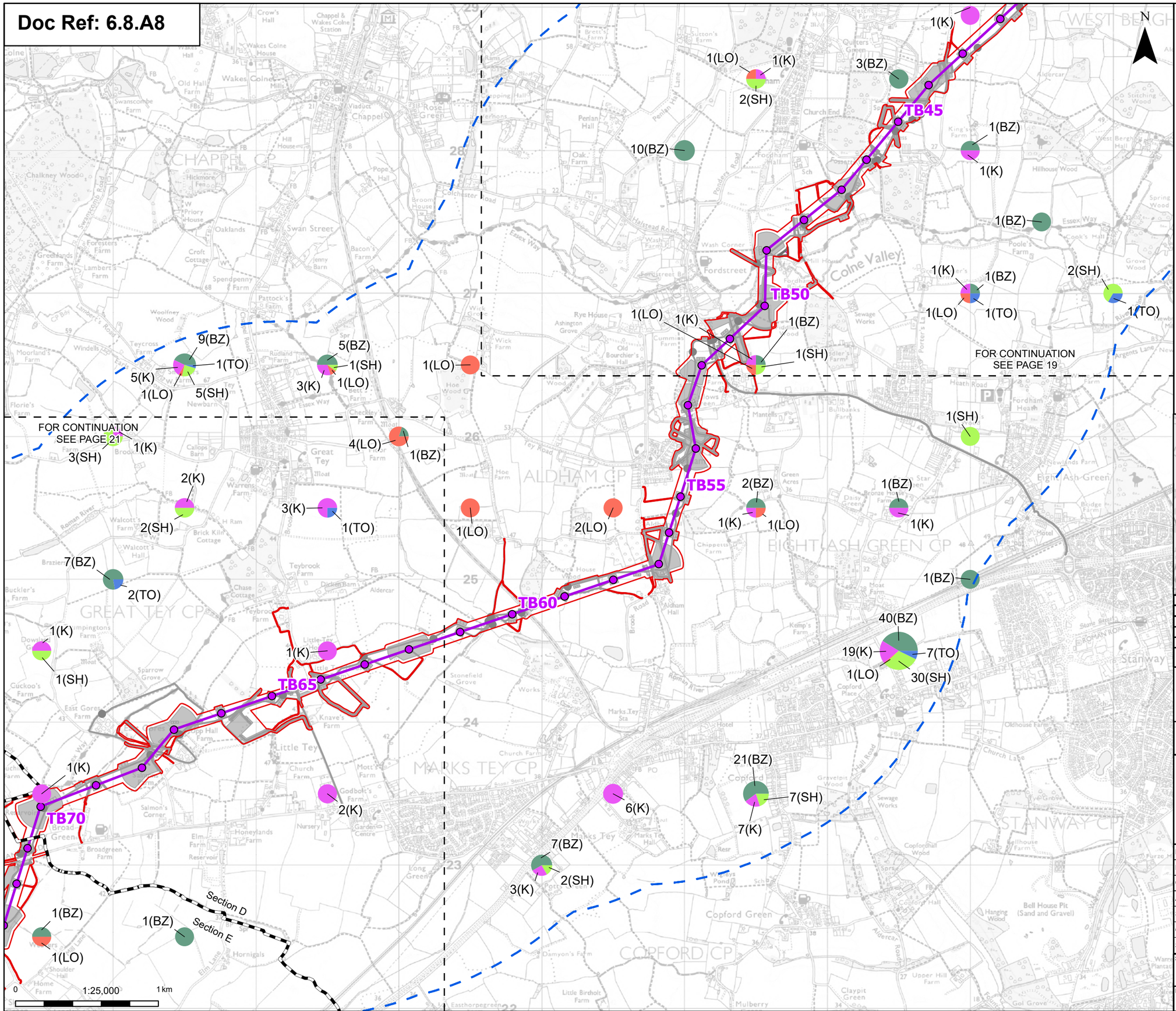

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
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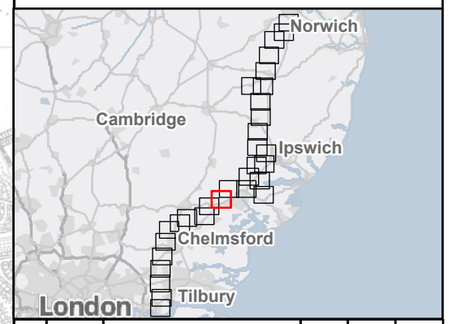

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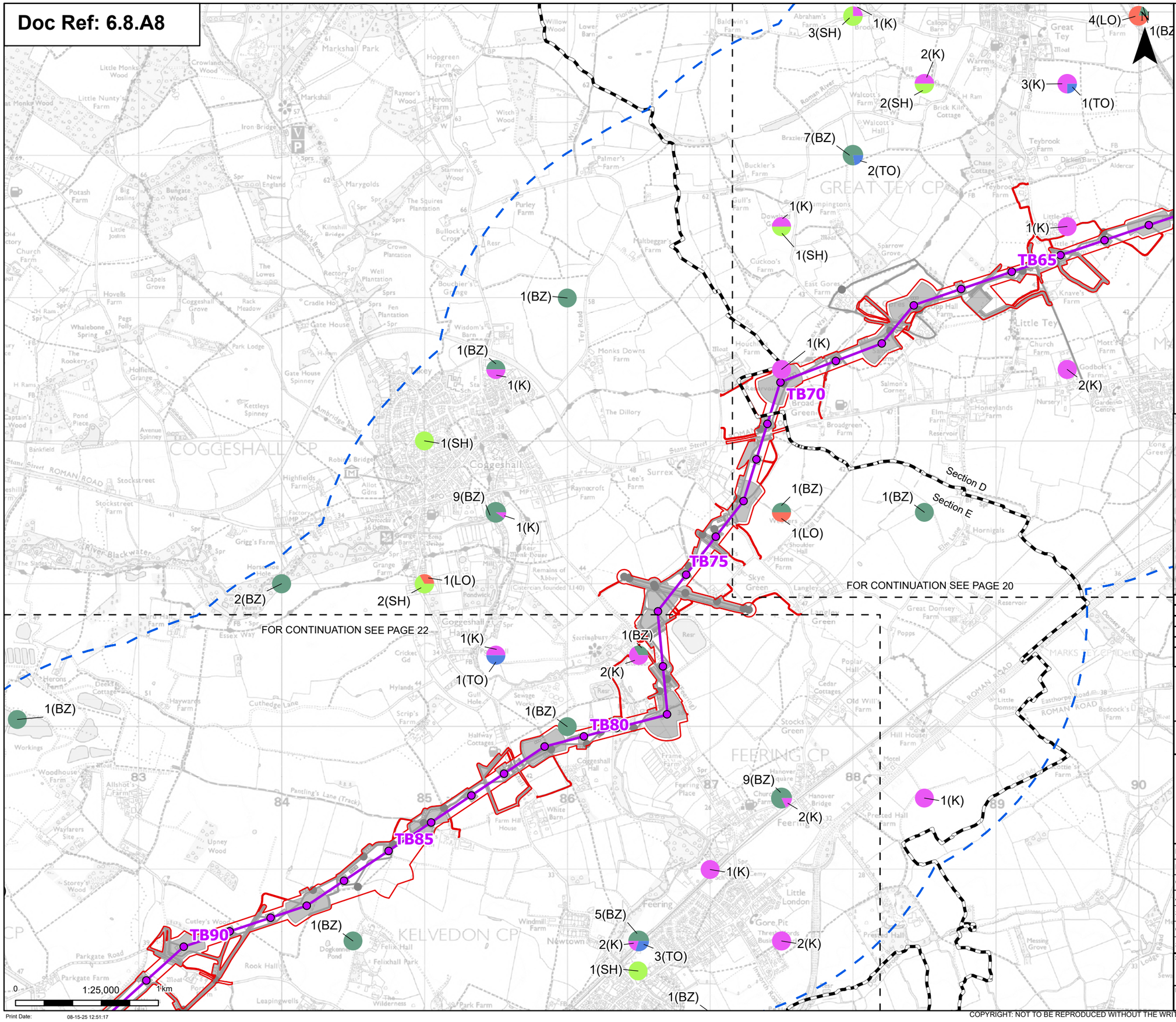

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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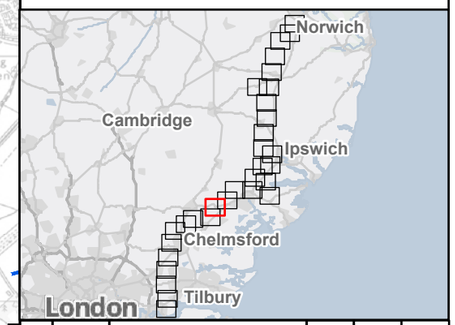

Rev	Date	Description	Drawn	Check	Approv
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

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PROJECT:
Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 21 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
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Suitability Code:	A2	Project Number:	10059280

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Accepted as Concept Stage

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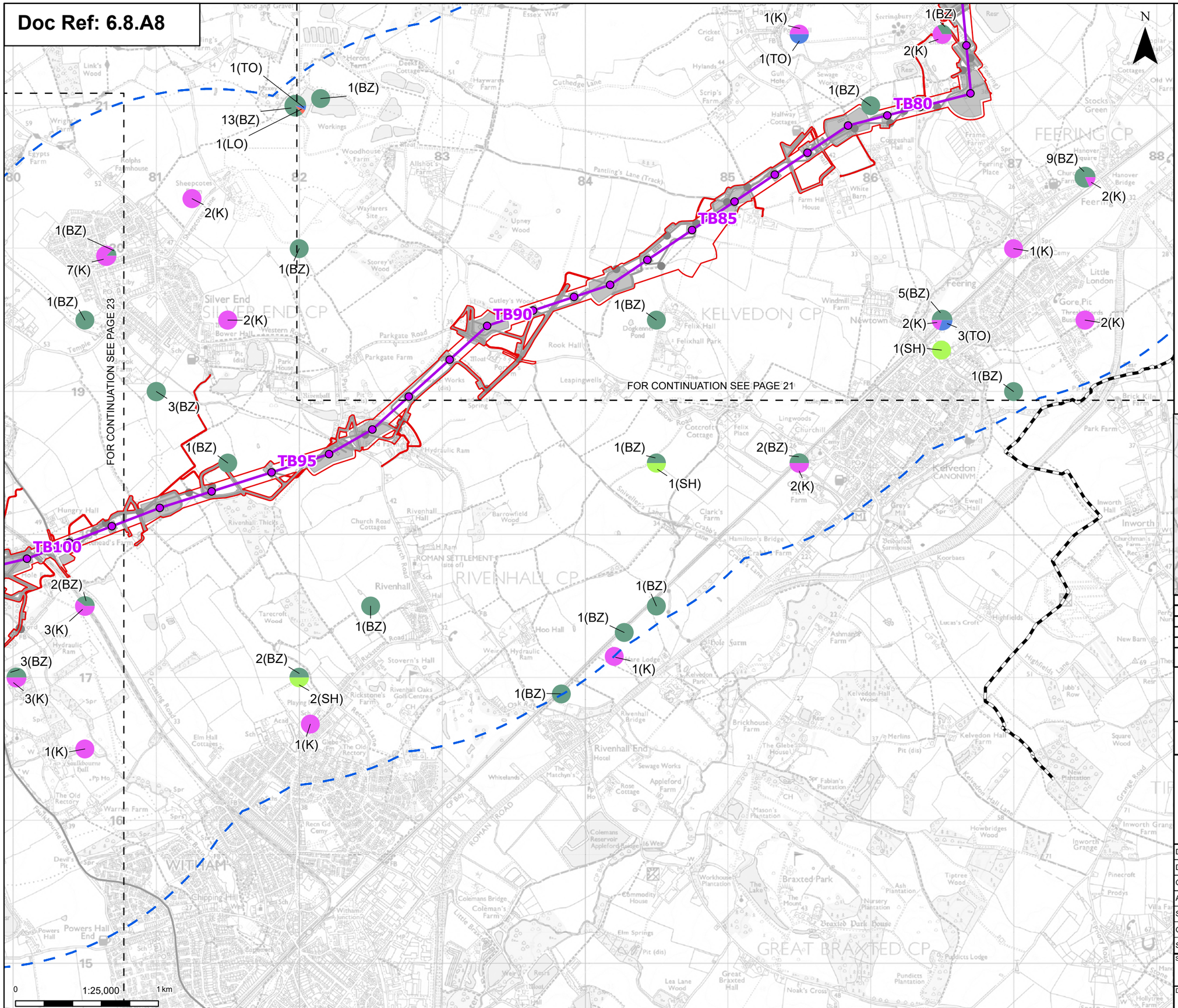
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1(K)
1(TO)
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2(K)
1(BZ)
9(BZ)
2(K)
1(K)
5(BZ)
2(K)
3(TO)
1(SH)
2(K)
1(BZ)
FOR CONTINUATION SEE PAGE 23
FOR CONTINUATION SEE PAGE 21
Silver End
SILVER END CP
KELVEDON CP
RIVENHALL CP
GREAT BRAXTED CP
FEERING CP
WITHAM
Kelvedon
Feering
Rivenhall End
Braxted Park
Inworth
Little London
Rivenhall
Hungry Hall
Rivenhall Hall
Rivenhall Oaks Golf Centre
Rivenhall End Hotel
Braxted Park House
Parkgate Road
Parkgate Farm
Rook Hall
Leapingwells
Cutley's Wood
Upney Wood
Storey's Wood
Woodhouse Farm
Allshot's Farm
Pantling's Lane (Track)
Cuthedge Lane
Essex Way
Halfway Cottages
Coggeshall Hall
Frame Farm
Feering Place
Hanover Square
Hanover Bridge
Stocks Green
Old Workhouse
Gore Pit
Newtown
Windmill Farm
Felix Hall
Felixhall Park
Dogkennel Pond
Lingwoods
Churchill
Cotcroft Cottage
Felix Place
Kelvedon CANONIUM
Inworth Hall
Park Farm
Brick Kiln Farm
Inworth Road
Hollow Road
Sniveller's Lane
Clark's Farm
Hamilton's Bridge
Crabb's Lane
Rivenhall Church
ROMAN SETTLEMENT (site of)
Church Road Cottages
Tarecroft Wood
Hoo Hall
Stovern's Hall
Rickstone's Farm
Rectory Lane
Oak Road
Whitelands
The Matchyn's
Rose Cottage
Appleford Farm
Sewage Works
Brickhouse Farm
The Glebe House
Fabian's Plantation
Mason's Plantation
Howbridges Wood
Kelvedon Hall Farm
Kelvedon Hall Wood
Square Wood
New Plantation
Merlins
Pit (dis)
Lucas's Croft
Highfields
Highfields Lane
New Barn
Jubb's Row
Dole Farm
Ashmans Farm
Kelvedon Park
Fire Lodge
Rivenhall Bridge
Coleman's Bridge
Coleman's Farm
Coleman's Reservoir Appleford Sludge
16 Weir
Workhouse Plantation
The Lake
The Mount
Commodity House
Nursery Plantation
Ash Plantation
Tiptree Wood
Braxted Park House
Elm Springs
Lea Lane Wood
Great Braxted Hall
Pundicts Lodge
Pundicts Plantation
Noak's Cross
Hollytree
Pinecroft
Prodys
Villa Farm
Inworth Grange
Inworth Grange Farm
Grange Road
Kelvedon Hall Lane
Priory Road
Sheepcotes
Wayfarers Site
Egypts Farm
Rolphs Farmhouse
Link's Wood
Herons Farm
Deeks Cottage
Haywards Farm
Workings
Scrip's Farm
Hylands
Gull Hole
Sewage Works
Cricket Gd
Seeringbury
Resr
Cottages
Old Workhouse
Farm Hill House
White Barn
Little London
Gore Pit
Threshers Business Park
Brick Kiln Farm
Park

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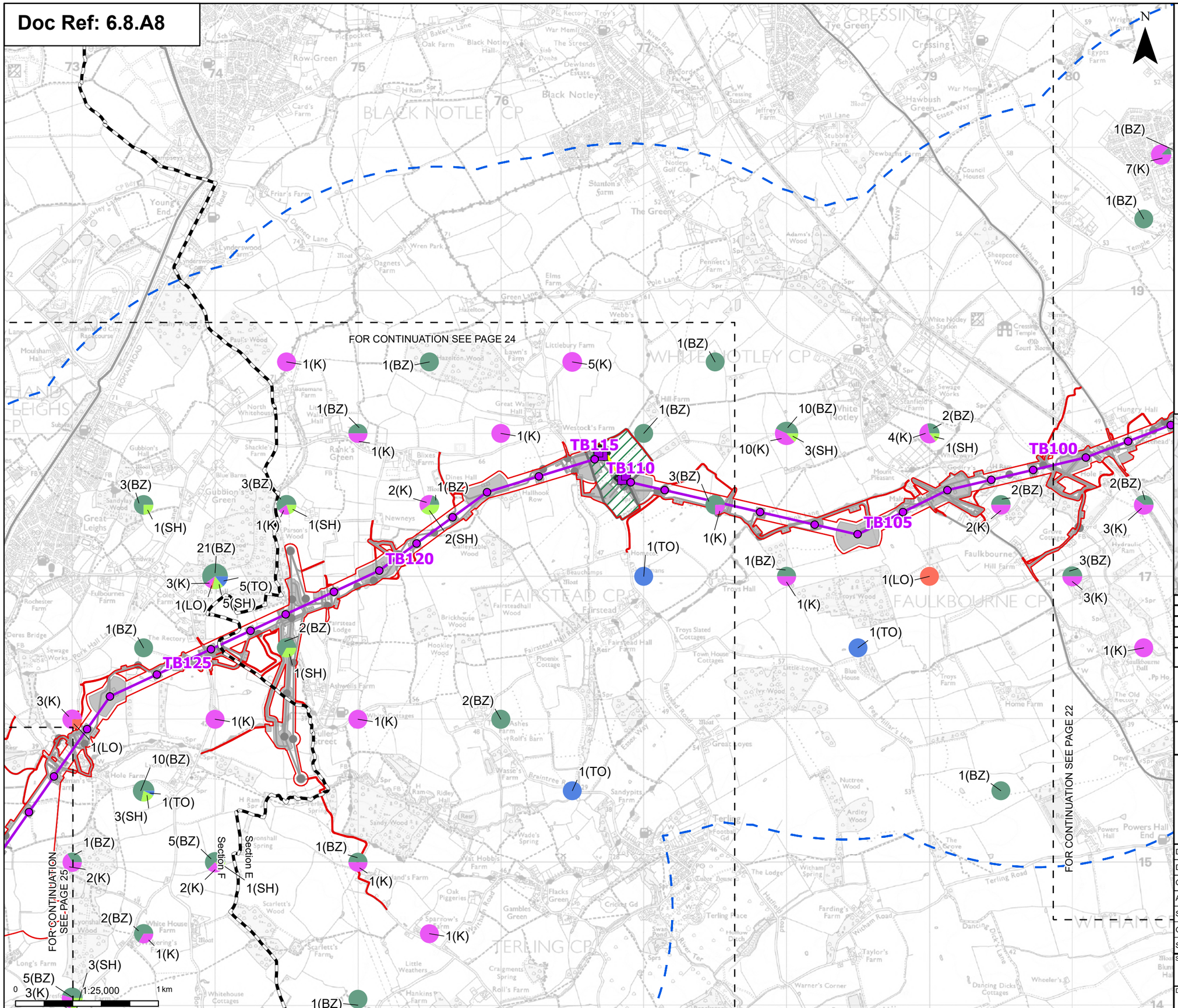

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Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 23 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Suitability Description:
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00327
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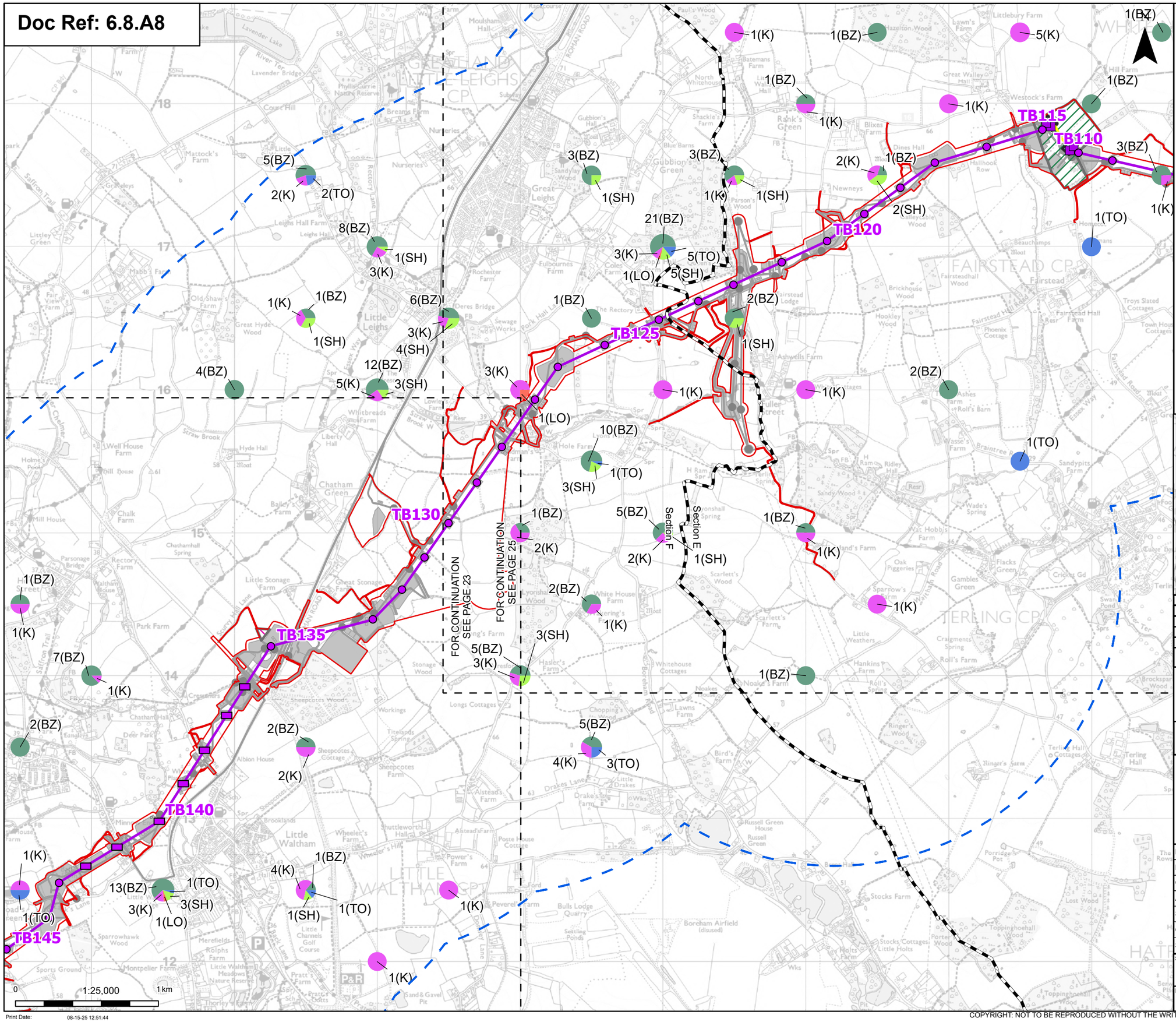

Order limits
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Proposed project design details

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

Buzzard (BZ)
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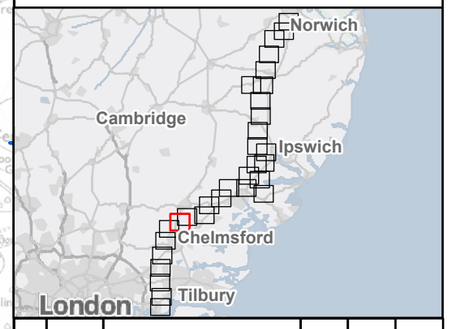

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PROJECT: Norwich to Tilbury

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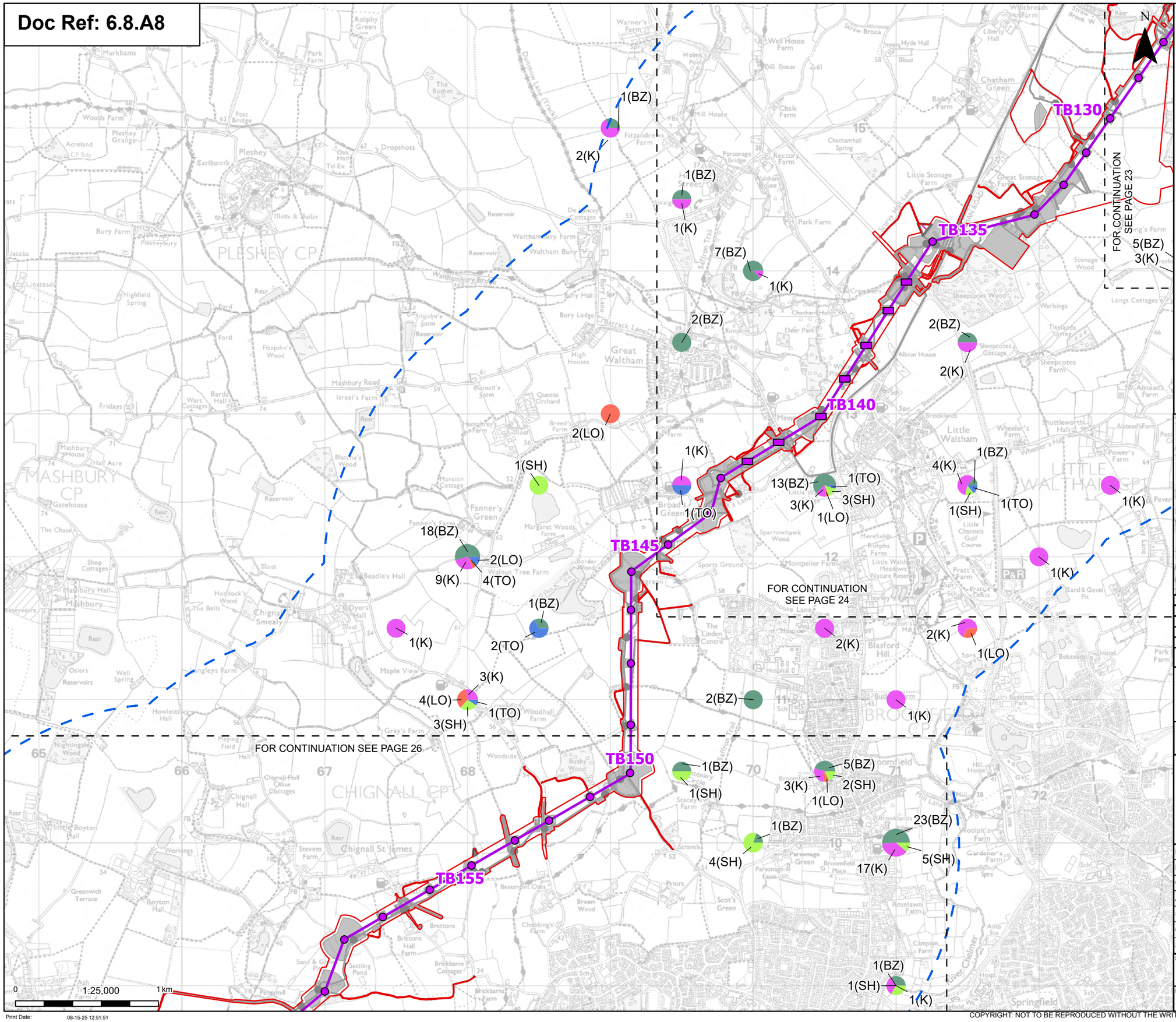

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
Kestrel (K)
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Sparrowhawk (SH)
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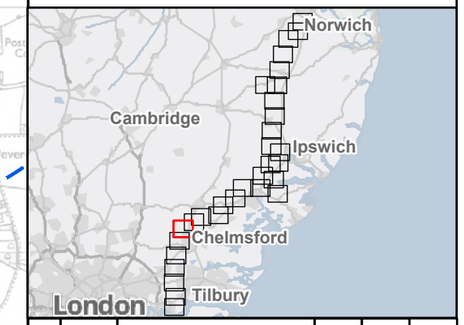

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
Page 25 of 31

Designed	R. Anderton	Date	21 Aug 25
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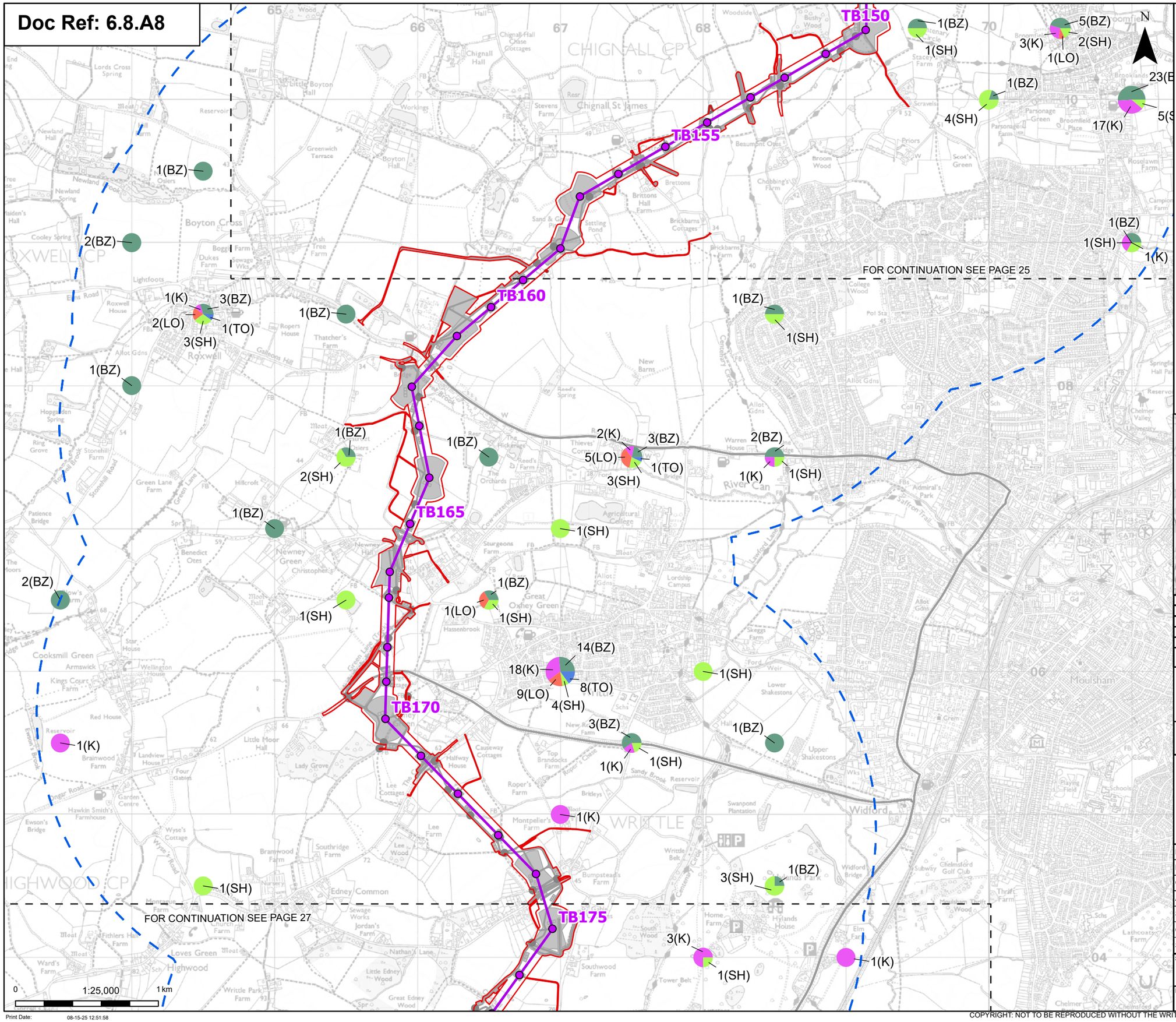

Order limits
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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
Kestrel (K)
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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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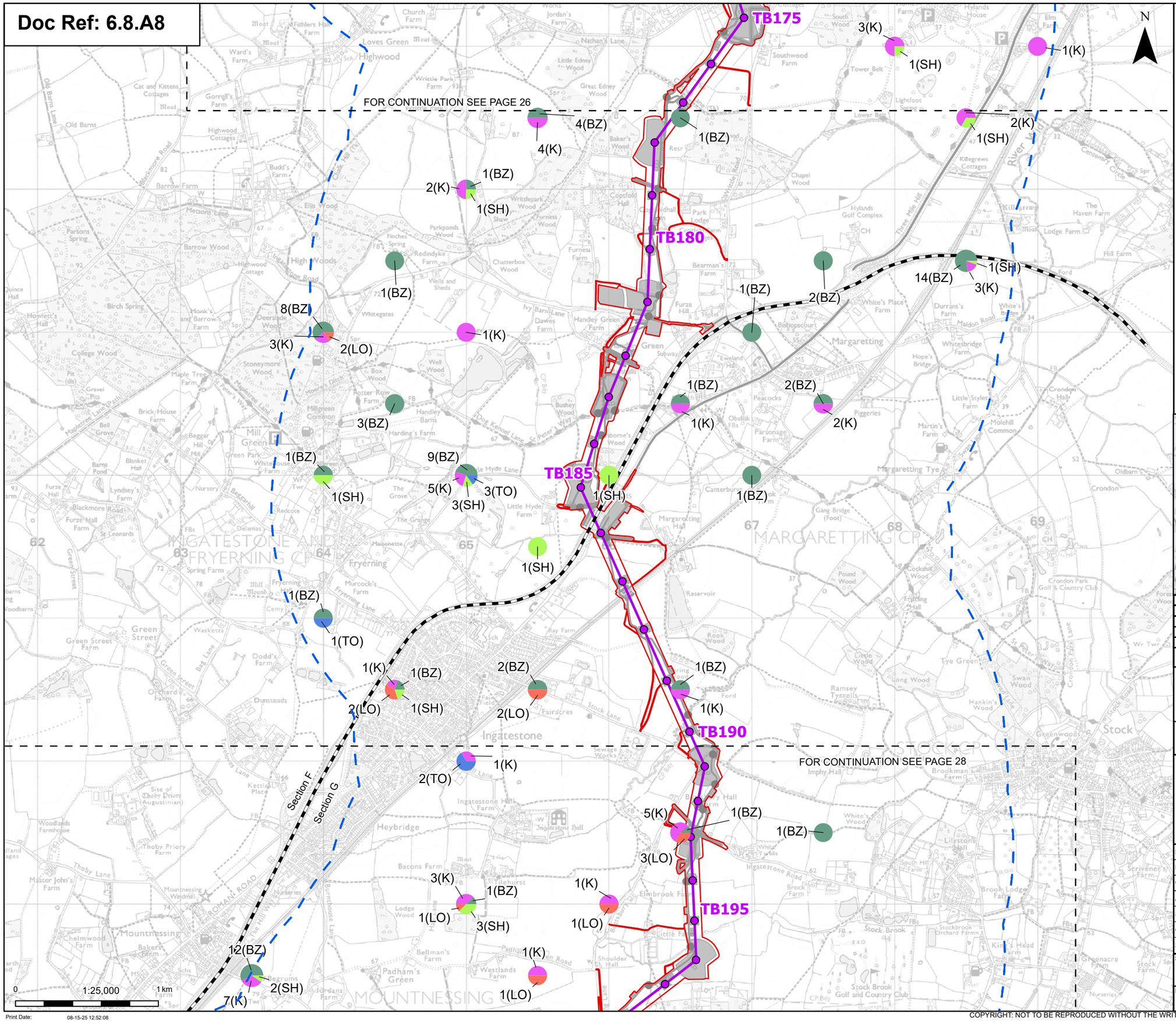

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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity Collision Risk Secondary Species Raptors & Owls (Desk Study Data 2013-2022) Page 27 of 31

Designed	R. Anderton	Date	21 Aug 25
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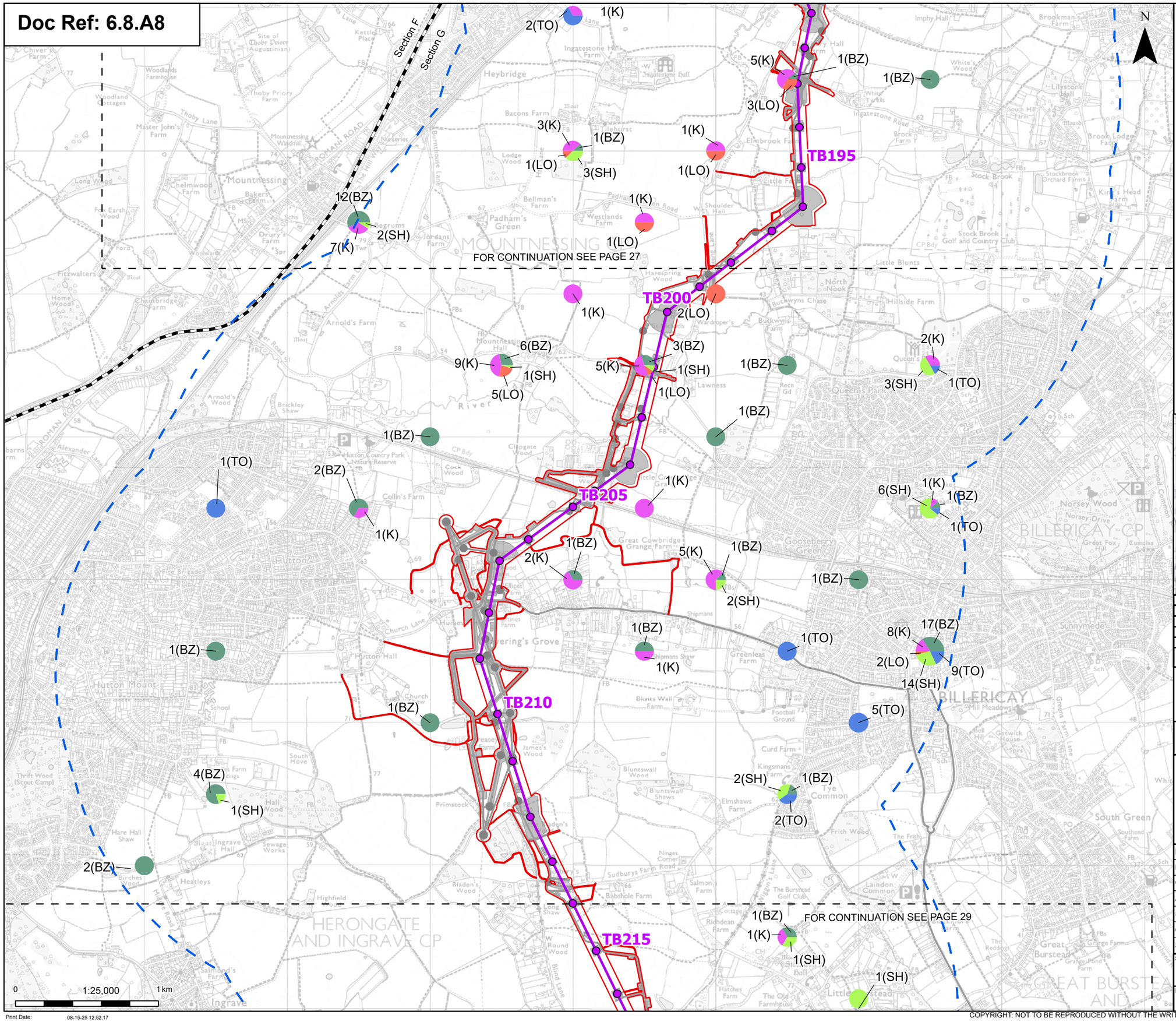

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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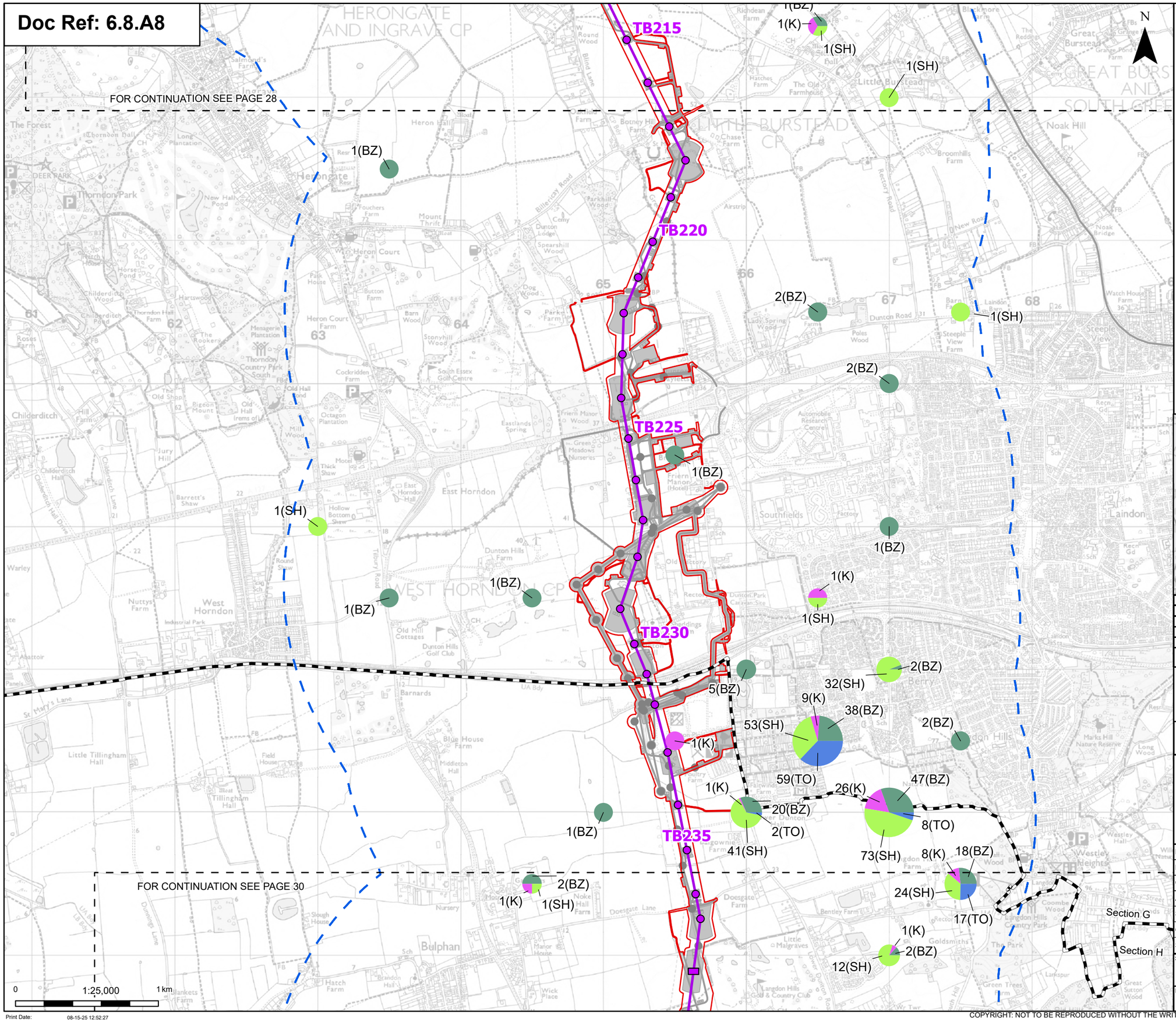

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT:
Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity
Collision Risk Secondary Species
Raptors & Owls (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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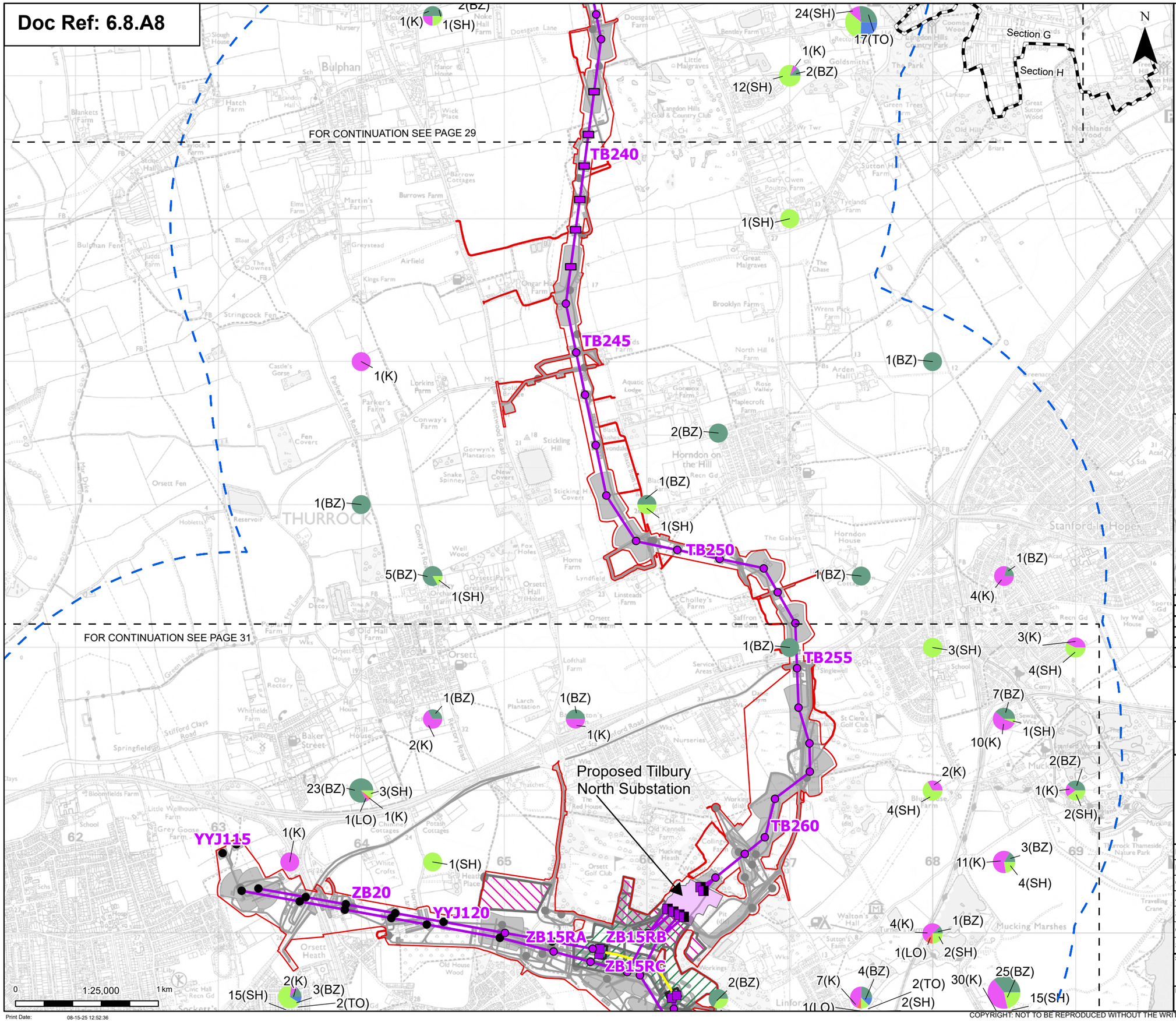

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Buzzard (BZ)
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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 Tilbury North Substation

TB255
TB260
YYJ115
YYJ120
YYJ125R
YYJ130
ZB20
ZB15RA
ZB15RB
ZB15RC
ZB10

1(BZ) 1(K) 2(K) 23(BZ) 3(SH) 1(LO) 1(SH) 15(SH) 3(BZ) 2(TO) 10(BZ) 6(SH) 5(SH) 2(LO) 7(BZ) 10(K) 4(SH) 2(BZ) 11(K) 4(K) 7(K) 4(BZ) 30(K) 25(BZ) 33(BZ) 5(K) 17(SH) 1(TO) 3(TO)

FOR CONTINUATION SEE PAGE 30

0 1:25,000 1 km

Print Date: 08-15-25 12:52:46

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.14 - Ecology and Biodiversity Collision Risk Secondary Species Raptors & Owls (Desk Study Data 2013-2022) Page 31 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
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Suitability Code:	A2	Project Number:	10059280

Suitability Description: Accepted as Concept Stage

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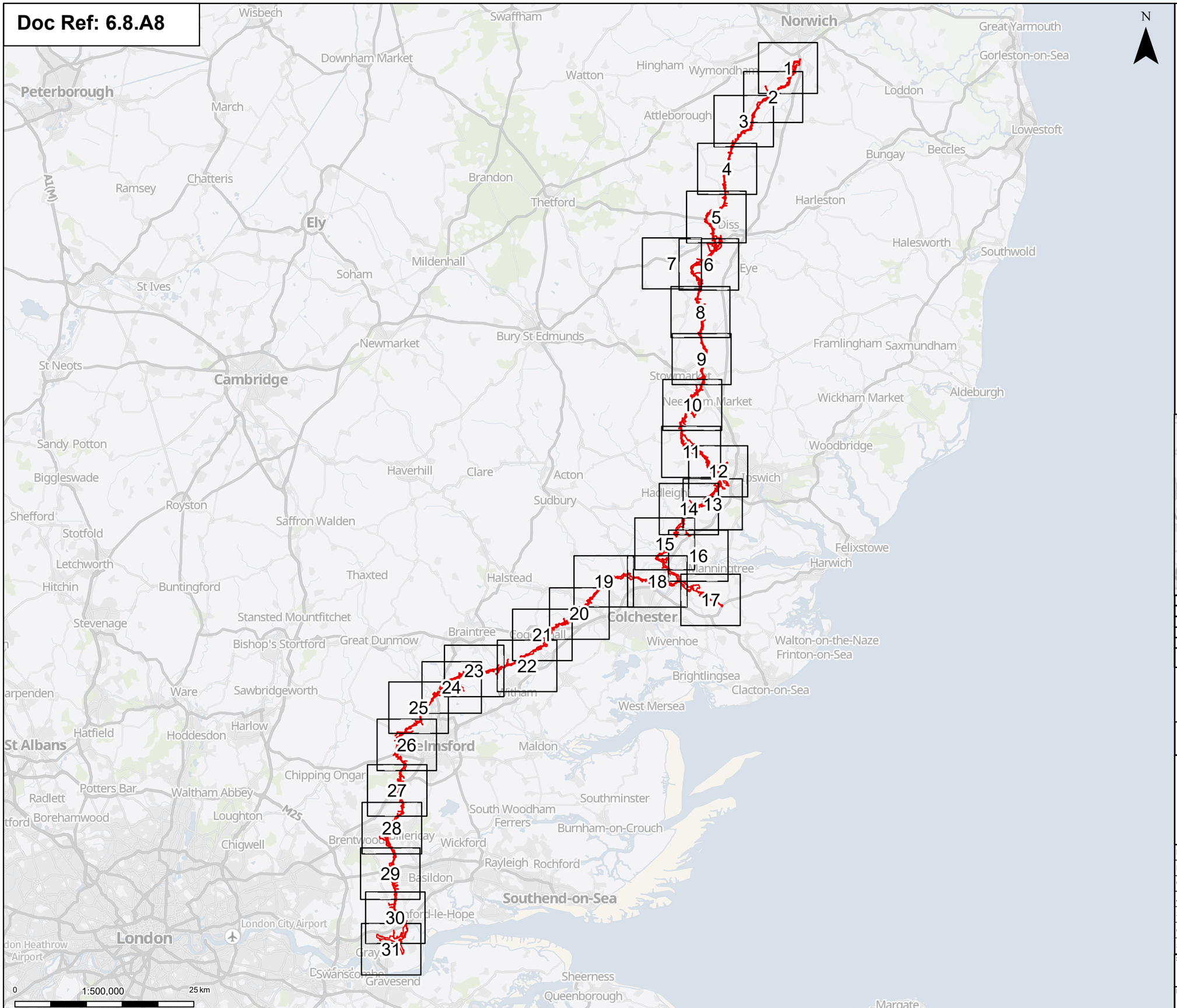

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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

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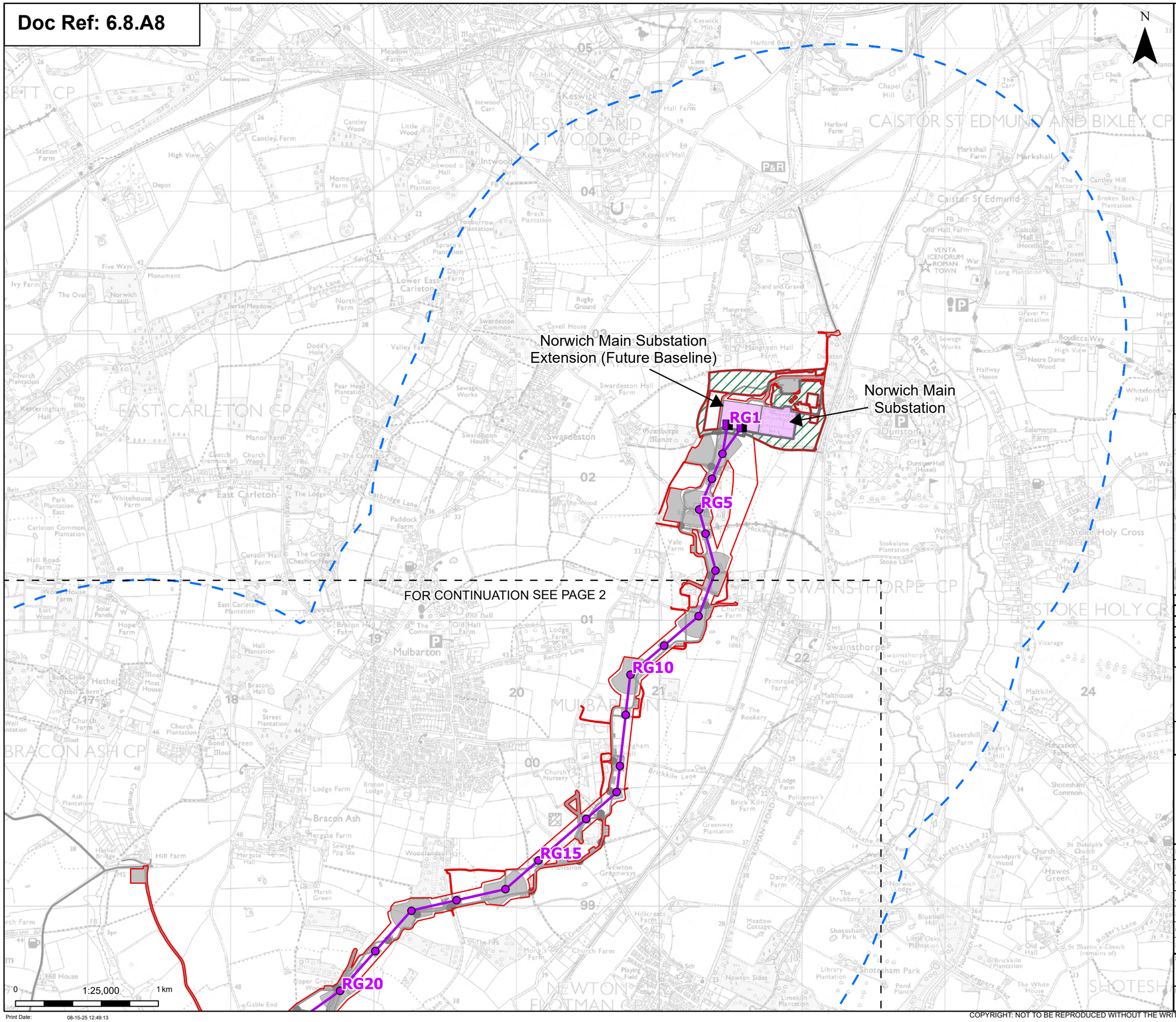

Order limits

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Proposed project design details

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Norwich Main Substation

Norwich Main Substation Extension (future baseline)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

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

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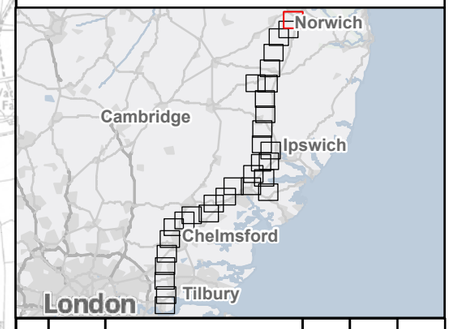

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 1 of 31

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Checked	A. Fell	Date	21 Aug 25
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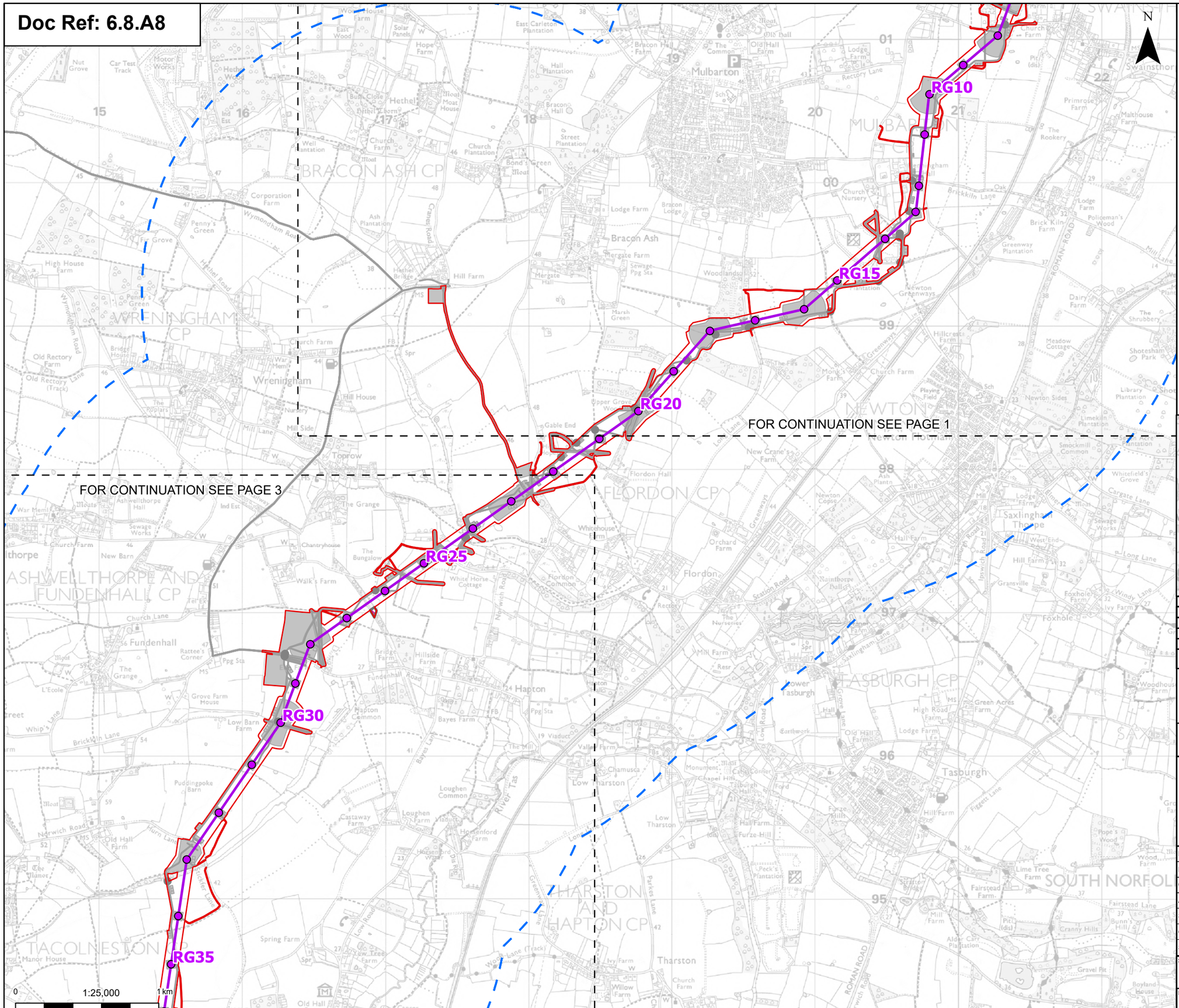

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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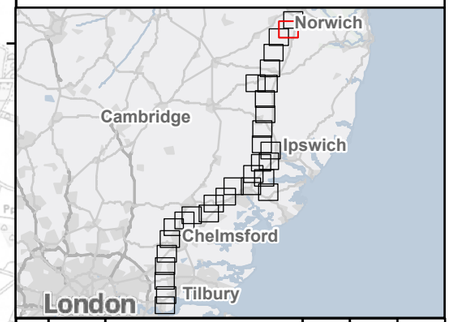

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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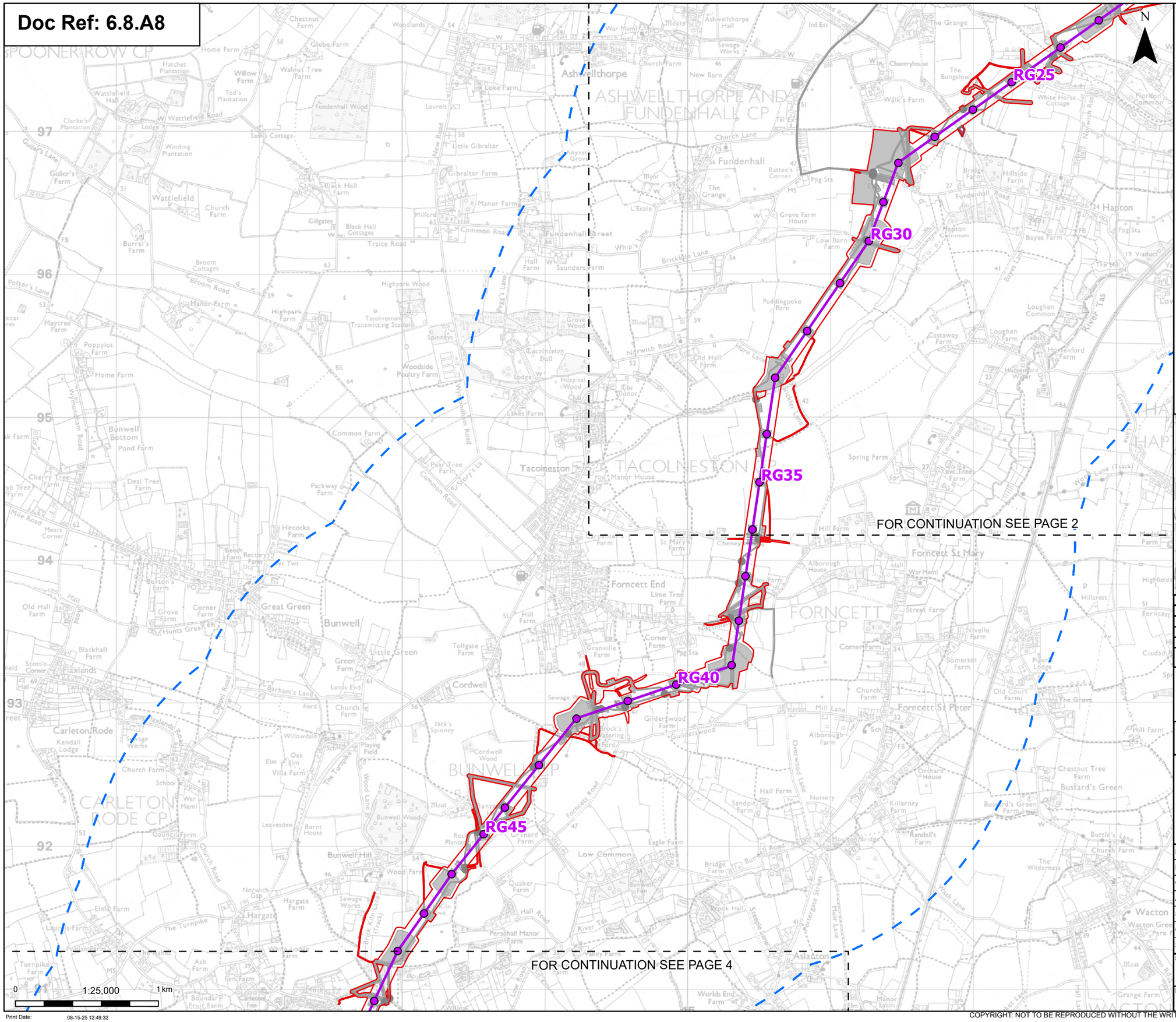

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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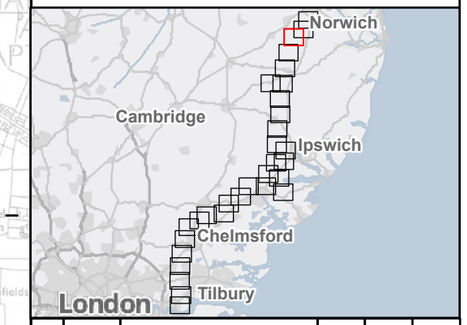

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PROJECT: Norwich to Tilbury

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

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Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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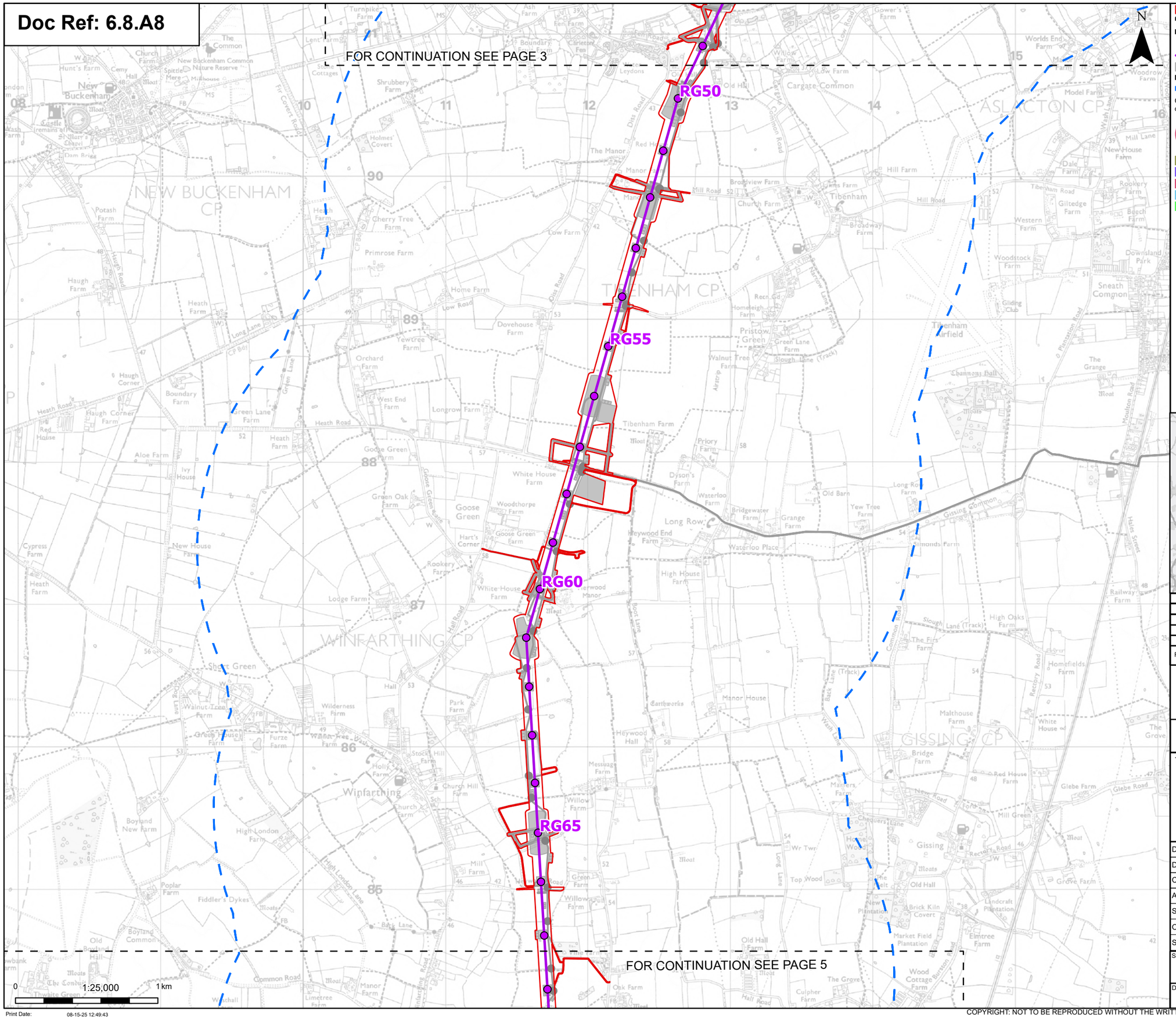

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Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT:
Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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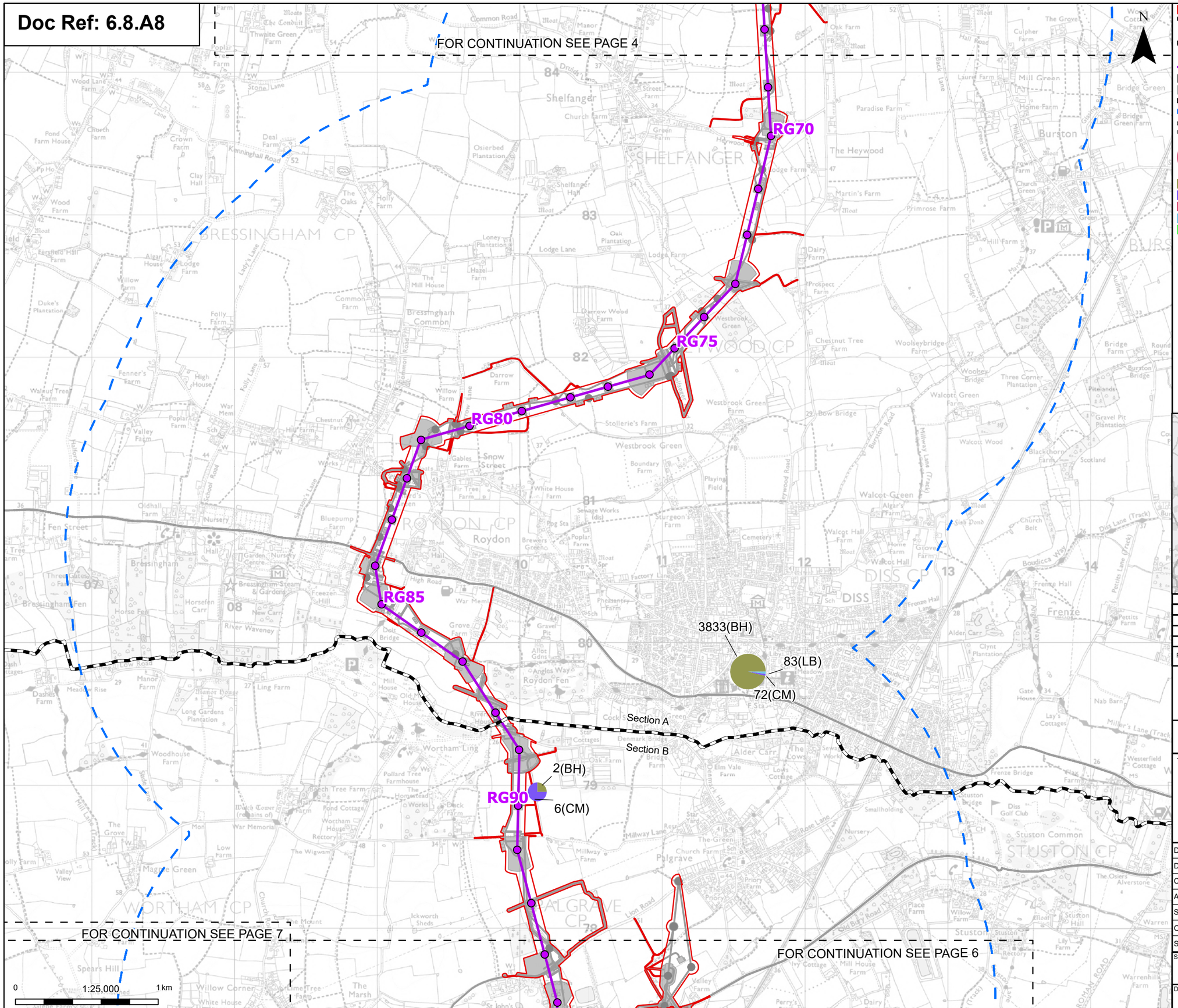

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Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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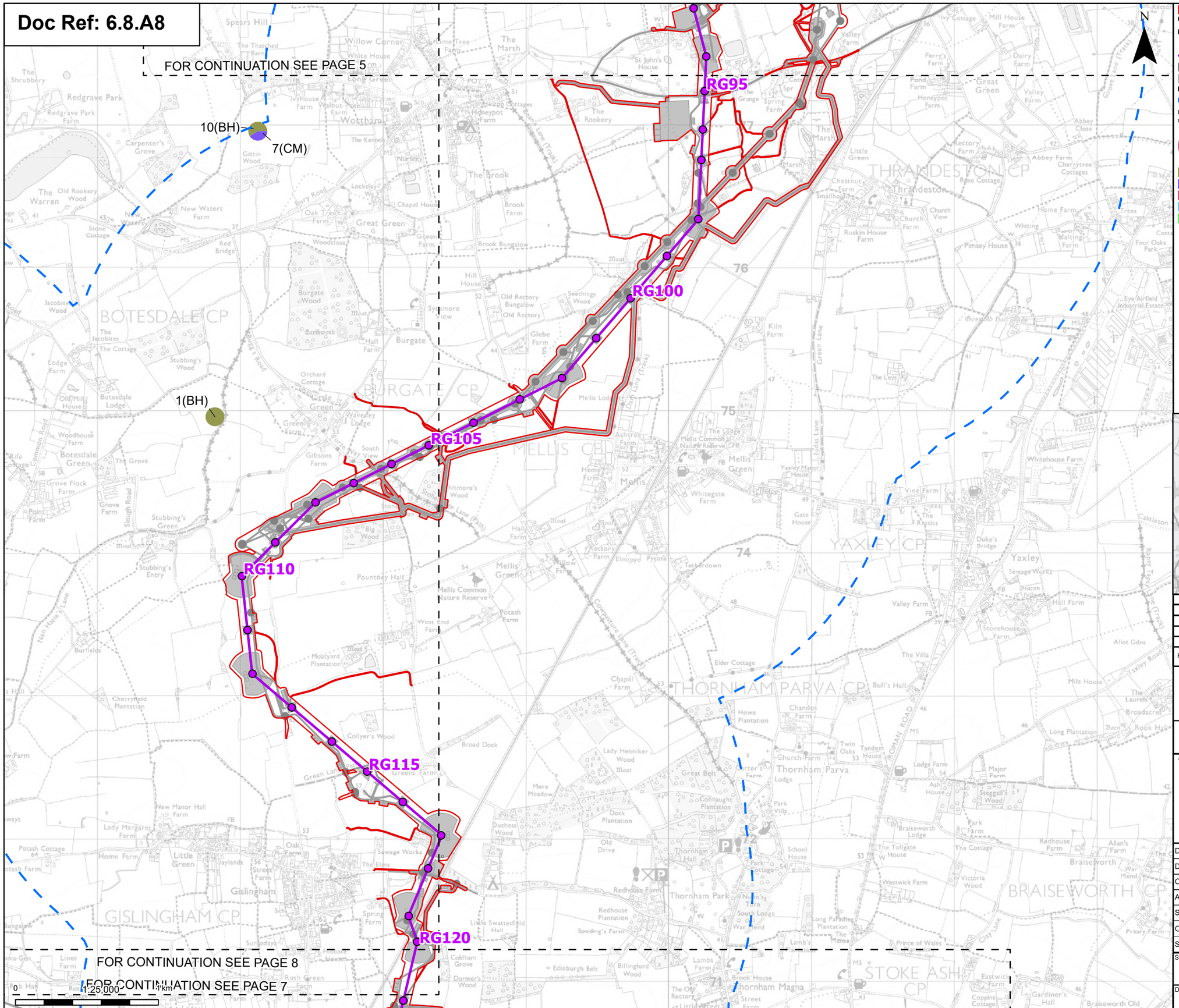

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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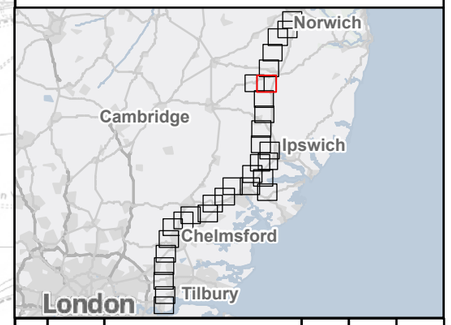

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PROJECT: Norwich to Tilbury

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Title:

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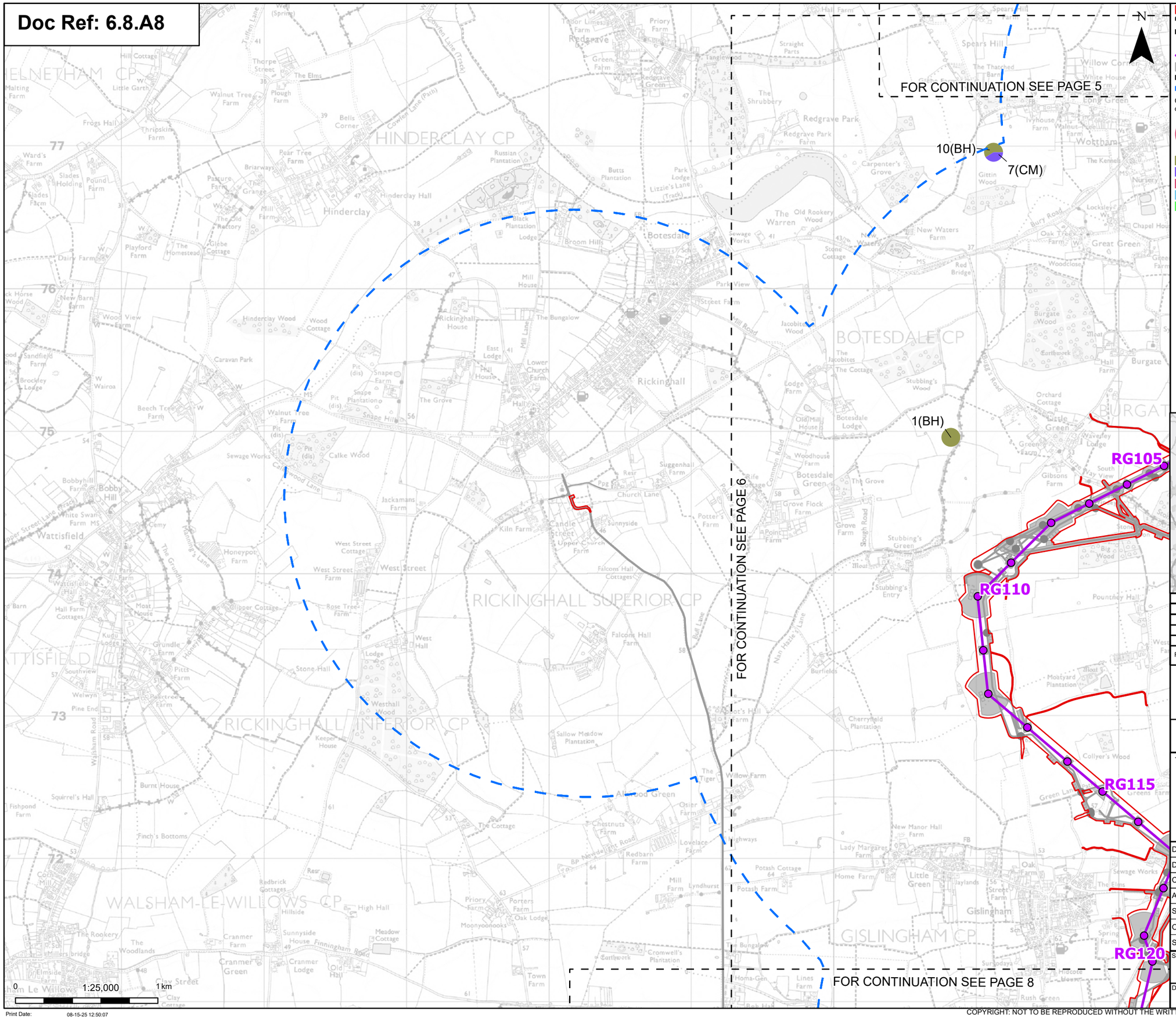

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT:
Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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RG125

RG130

RG135

RG140

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0 1:25,000 1 km

Print Date: 08-15-25 12:50:14

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

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

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

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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RG140

RG145

RG150

RG155

RG160

50(CM)

1(BH)

1(LB)

55(BH)

25(LB)

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0 1:25,000 1 km

Print Date: 08-15-25 12:50:22

N

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

Black-headed gull (BH)

Common gull (CM)

Great Black-backed gull (GB)

Lesser Black-backed gull (LB)

Yellow-legged gull (YG)

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 9 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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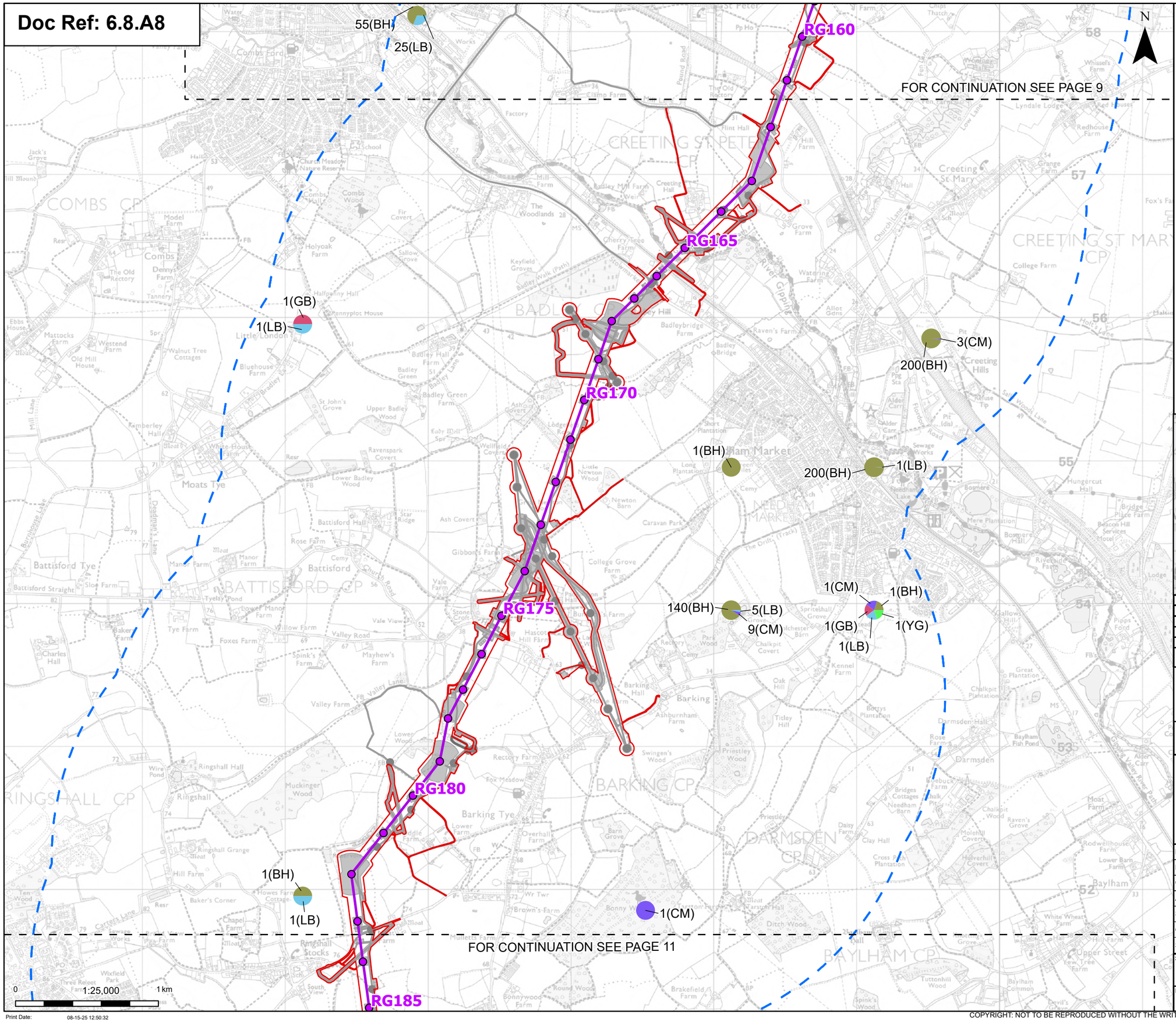

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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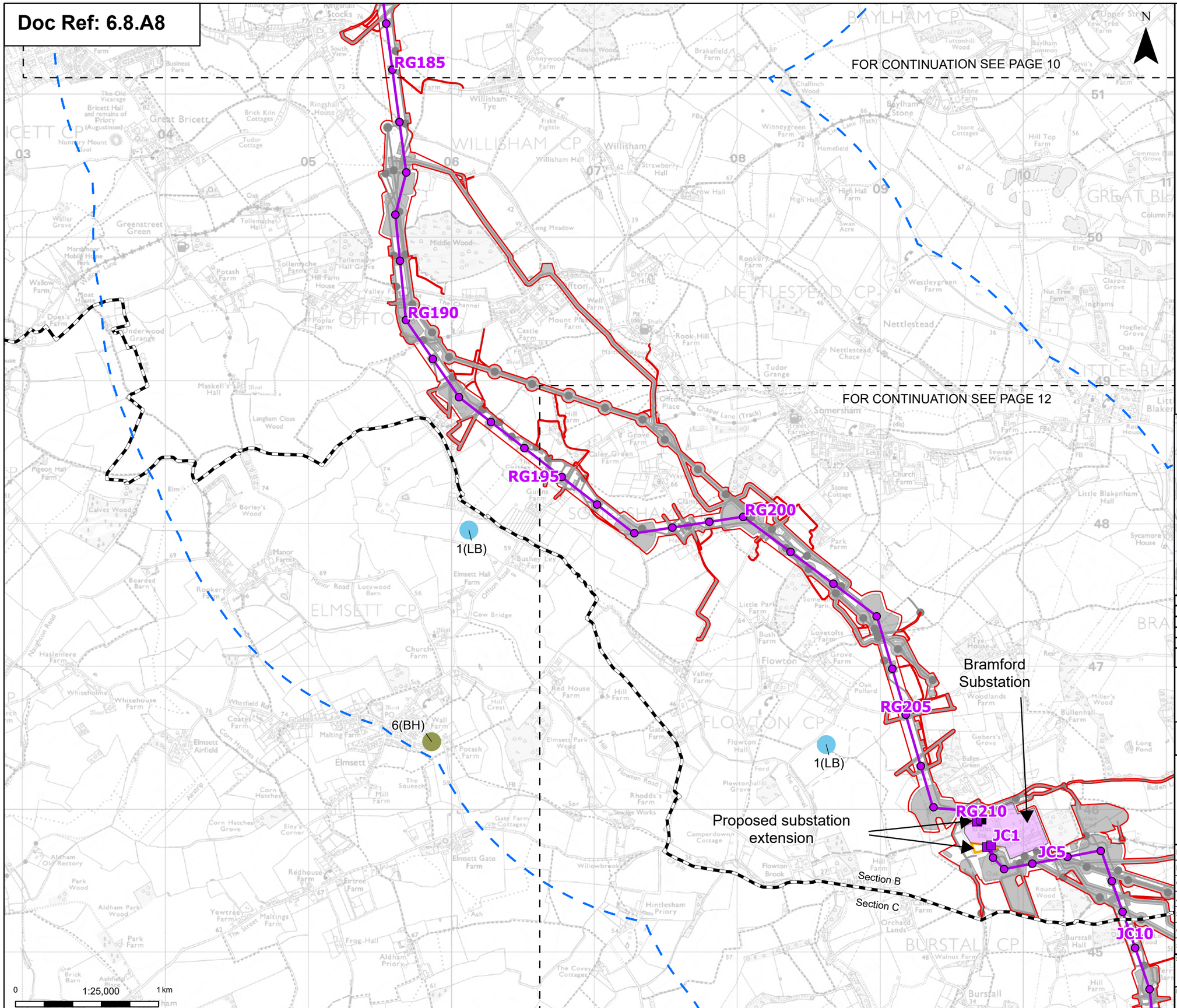

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Proposed project design details

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

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

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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RG195
RG200
RG205
RG210
JC1
JC5
JC10
JC15
JC20

Bramford Substation

Proposed substation extension

Section B
Section C

1(BH)
1(CM)
1(LB)
1(BH)
1(LB)
1(LB)
1(BH)
1(CM)
1(LB)
1(LB)
4(BH)
2(LB)
2(BH)
1(BH)
9(BH)
2(LB)
1(LB)
1(CM)
1(BH)
1(CM)
1(LB)
1(BH)
1(LB)
65(BH)
7(LB)
20(CM)
2(BH)
1(LB)

FOR CONTINUATION SEE PAGE 11

FOR CONTINUATION SEE PAGE 13

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0 1:25,000 1 km

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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

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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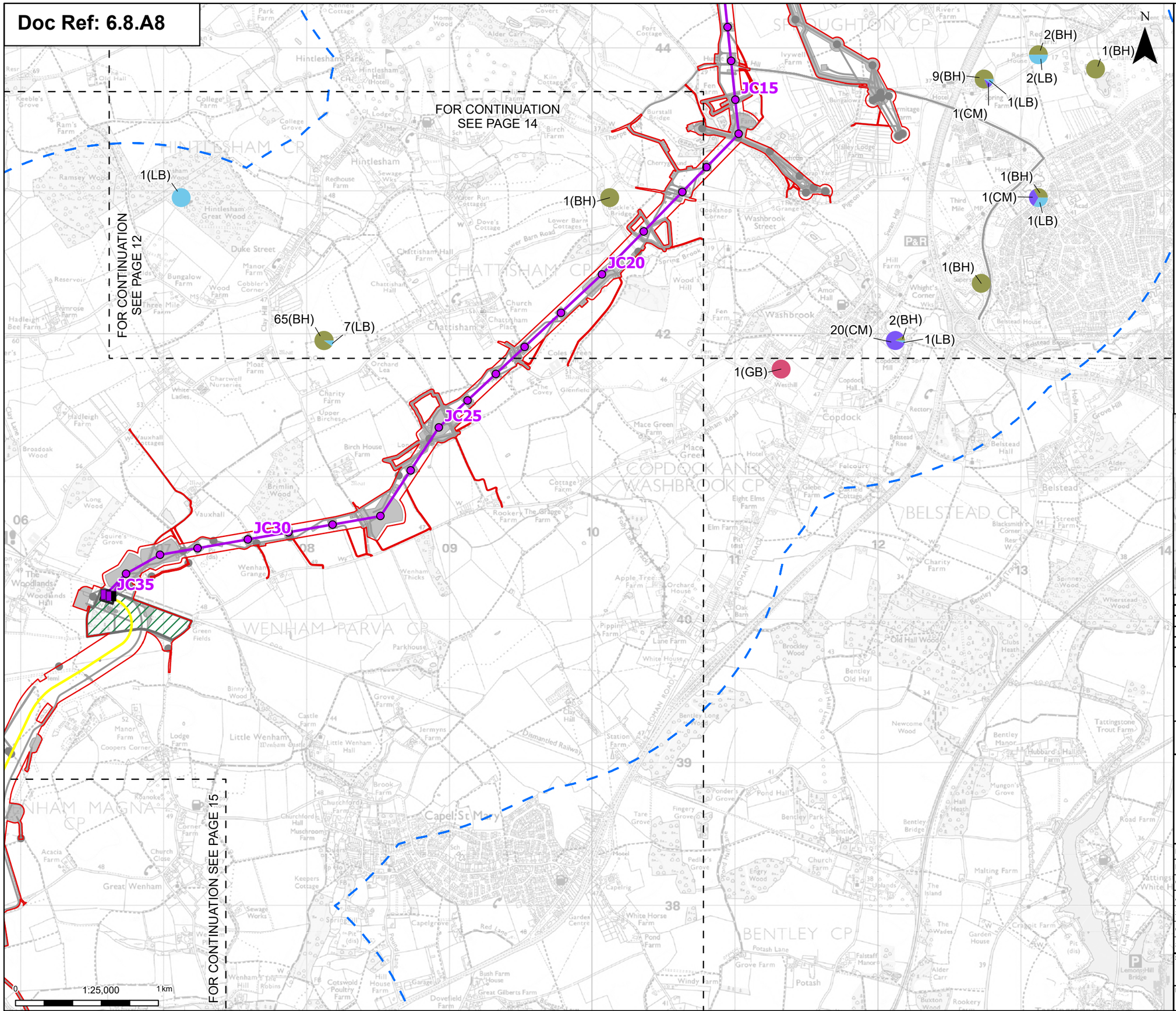

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Proposed project design details

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

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PROJECT: Norwich to Tilbury

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Title:

Figure A8.8.15 - Ecology and Biodiversity Collision Risk Secondary Species Gulls & Terns (Desk Study Data 2013-2022) Page 13 of 31

Designed	R. Anderton	Date	21 Aug 25
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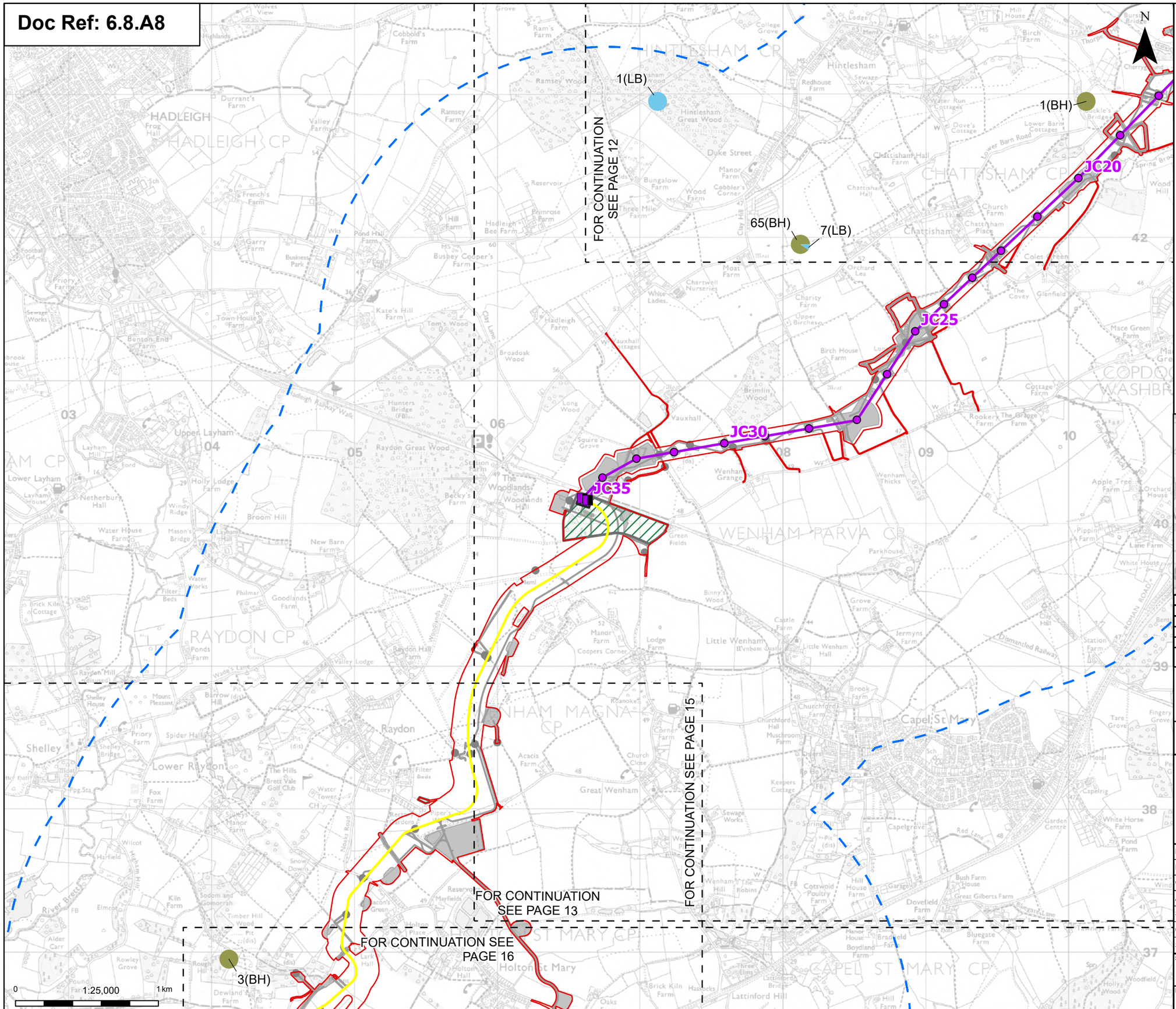

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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Planning Inspectorate App Number: EN020027
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Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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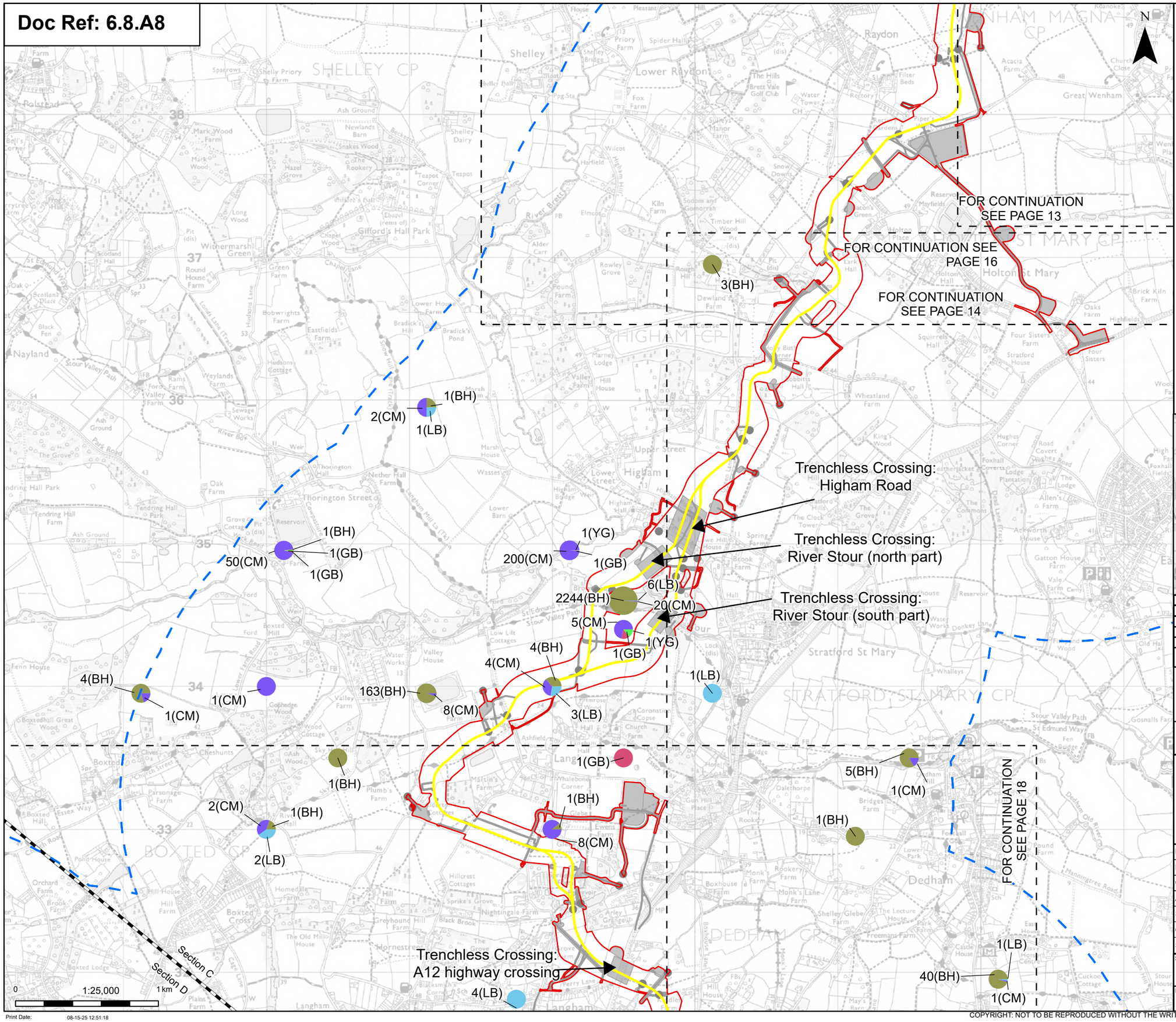

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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Common gull (CM)
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PROJECT: Norwich to Tilbury

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Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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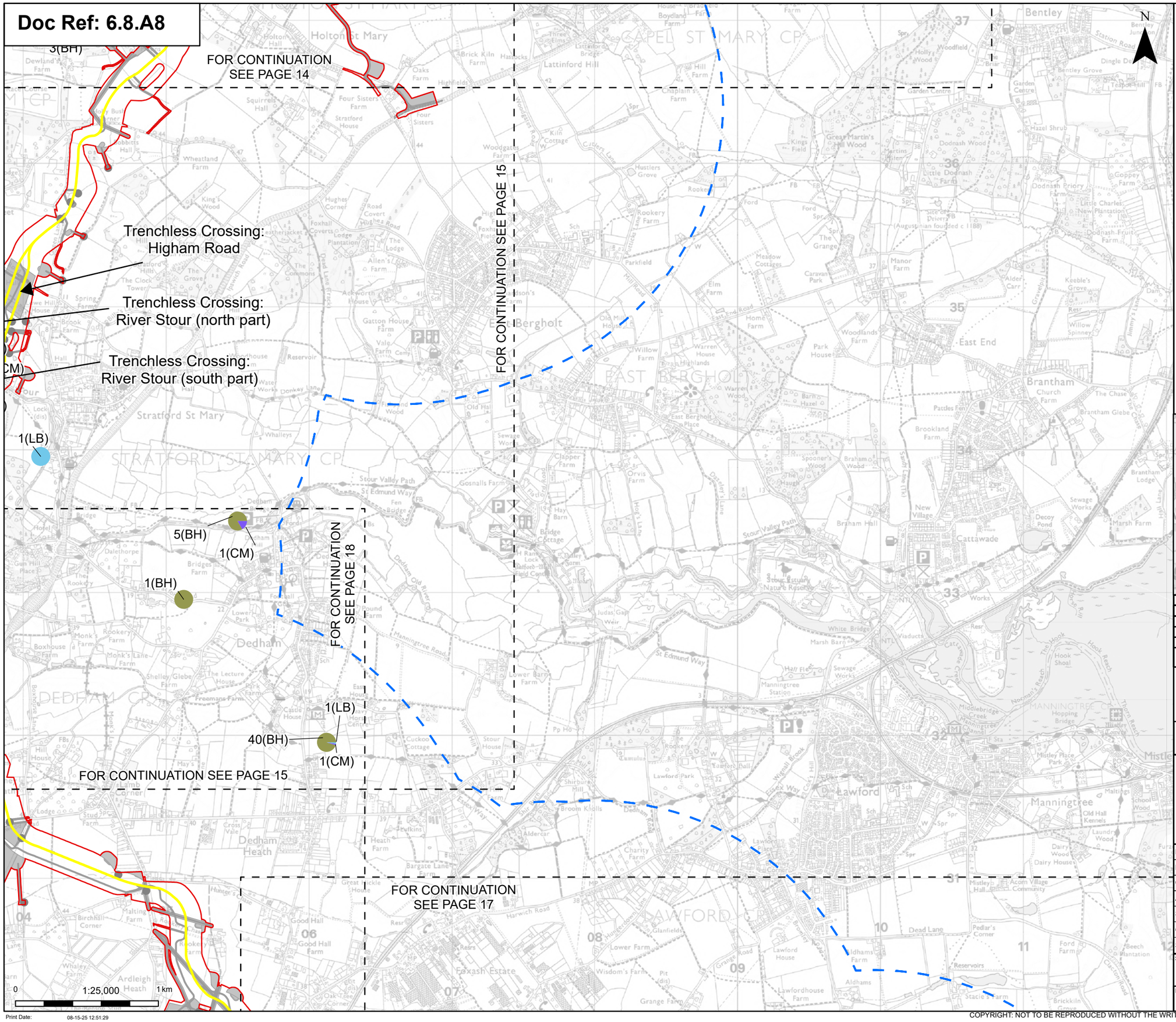

Order limits
Sheet index cutline

Proposed project design details

Proposed standard lattice pylon location
Proposed underground cable alignment
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

Black-headed gull (BH)
Common gull (CM)
Great Black-backed gull (GB)
Lesser Black-backed gull (LB)
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Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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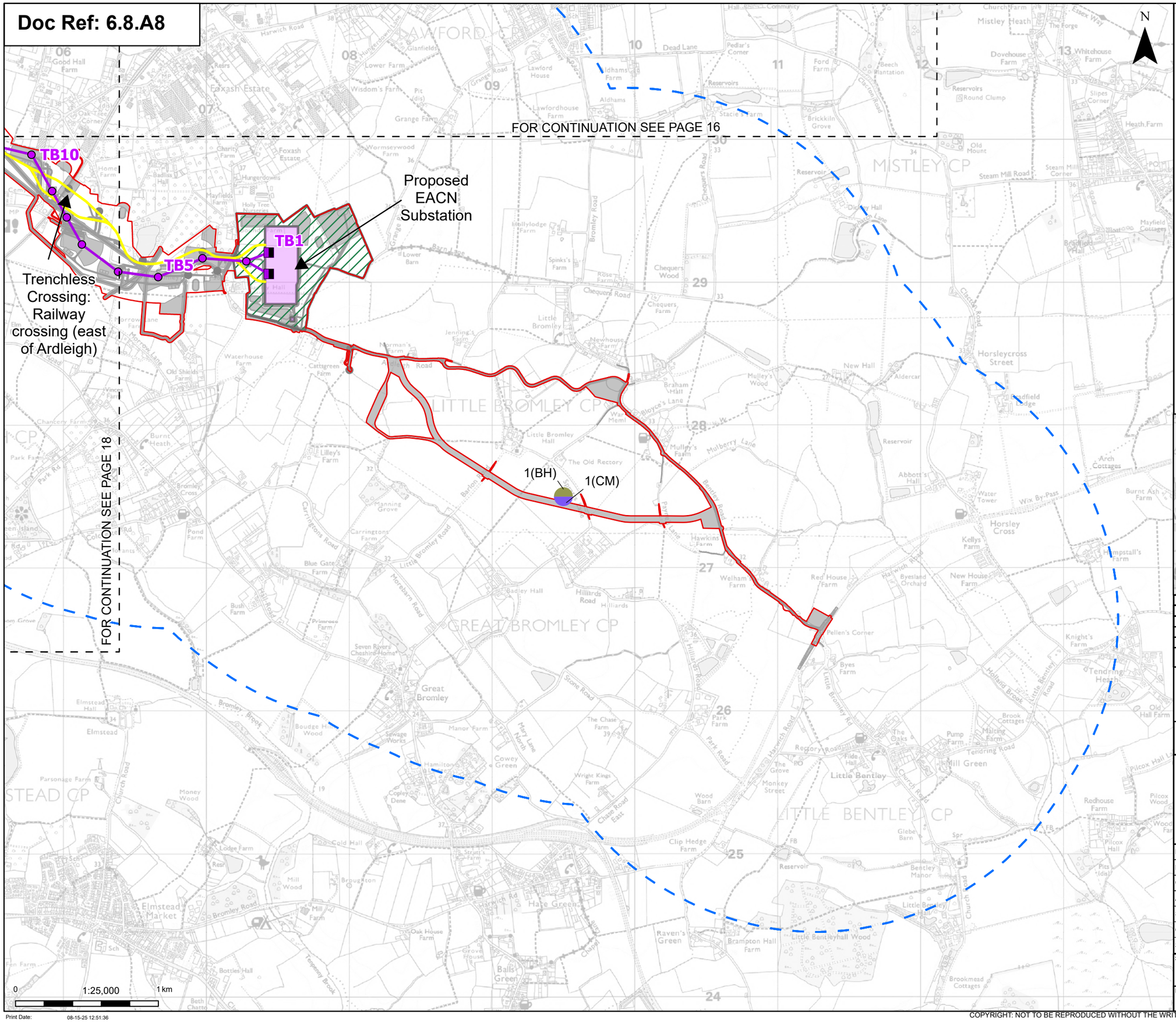

- Order limits
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Proposed project design details

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

- Black-headed gull (BH)
- Common gull (CM)
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Figure A8.8.15 - Ecology and Biodiversity
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Gulls & Terns (Desk Study Data 2013-2022)
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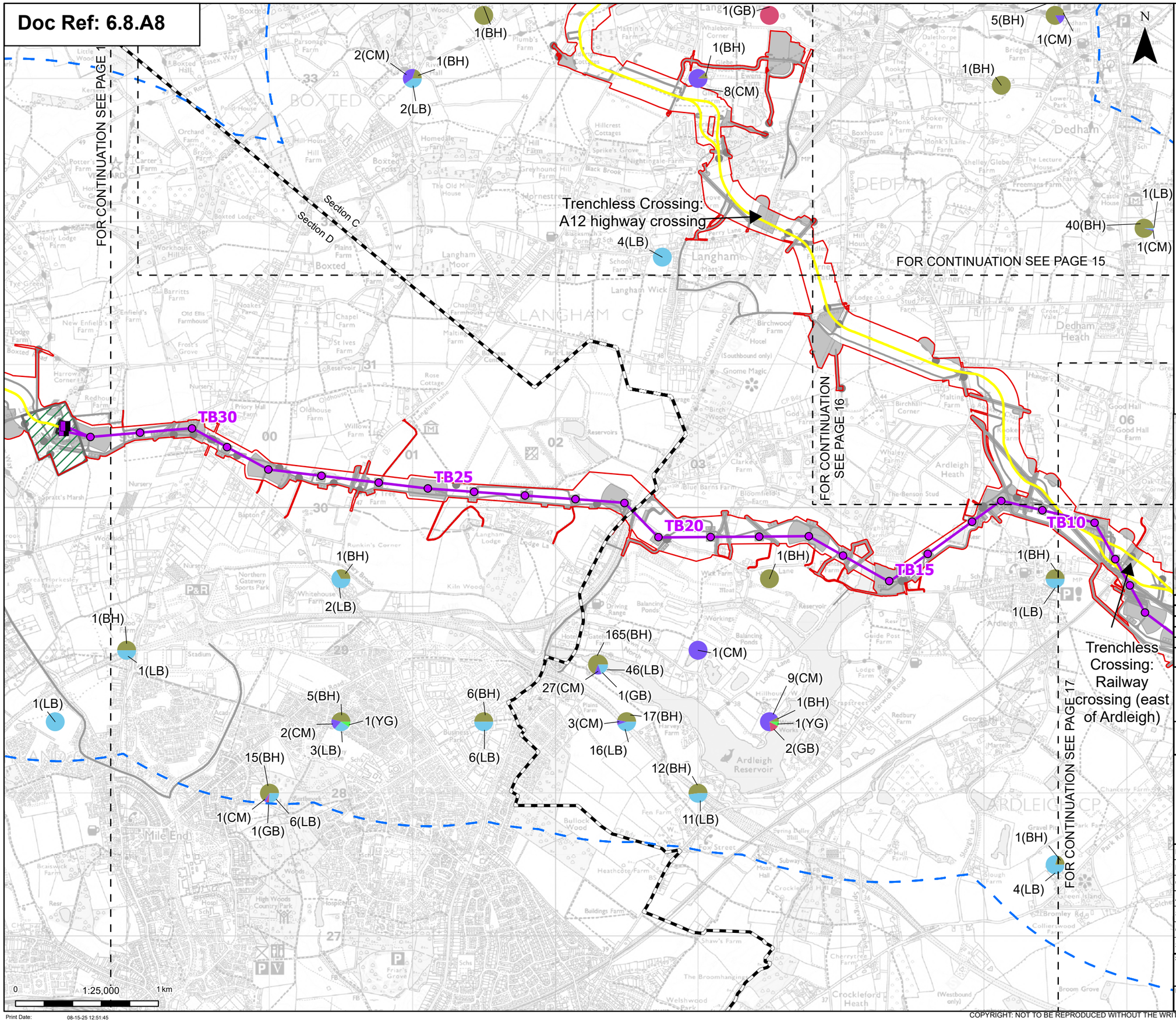

Order limits
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Project section line

Proposed project design details

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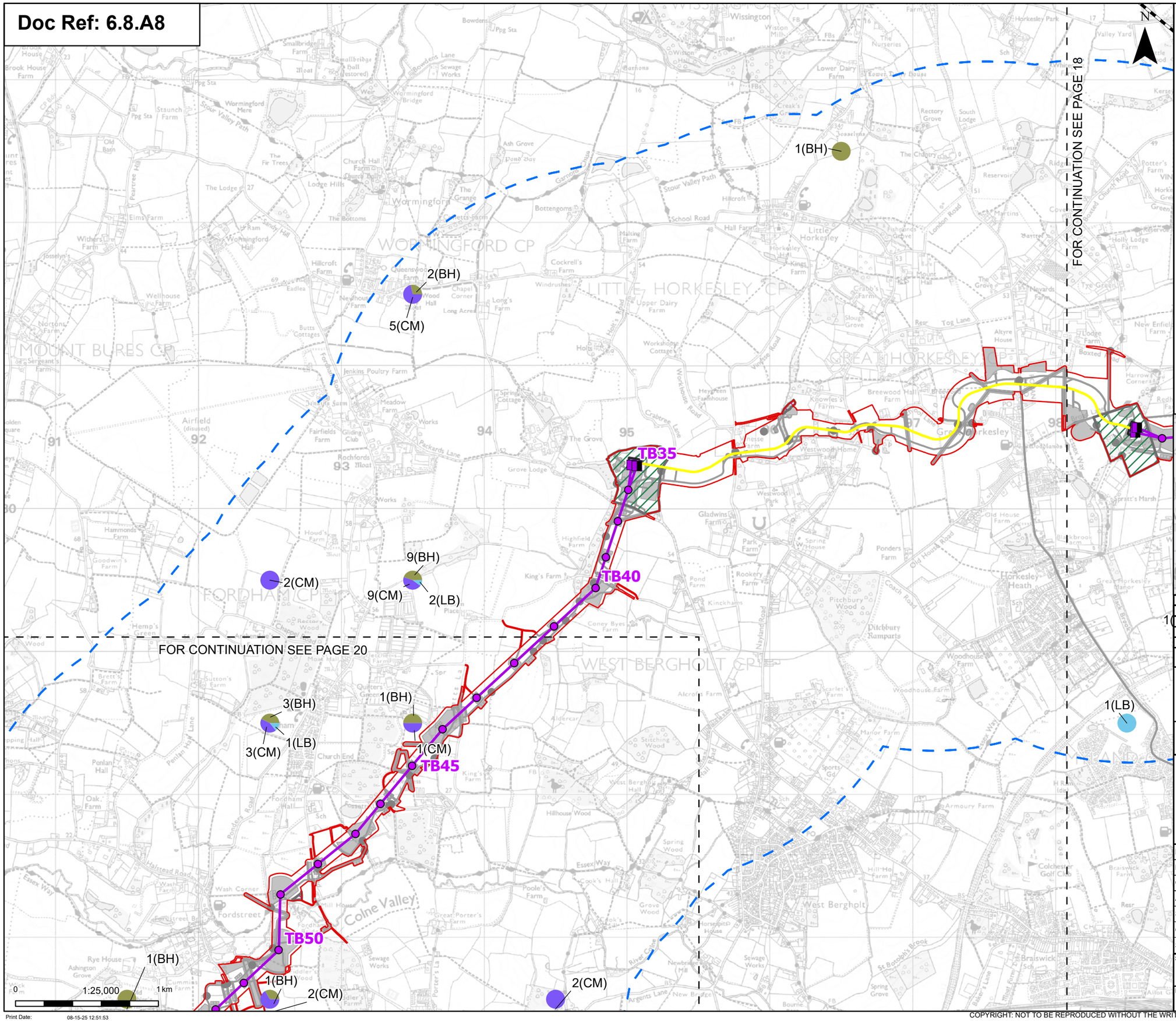

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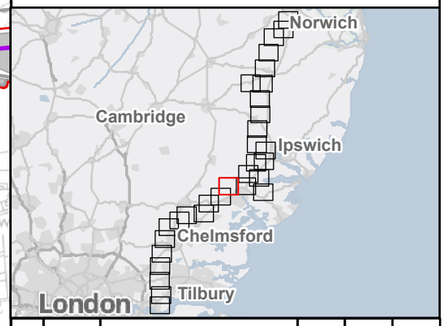

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Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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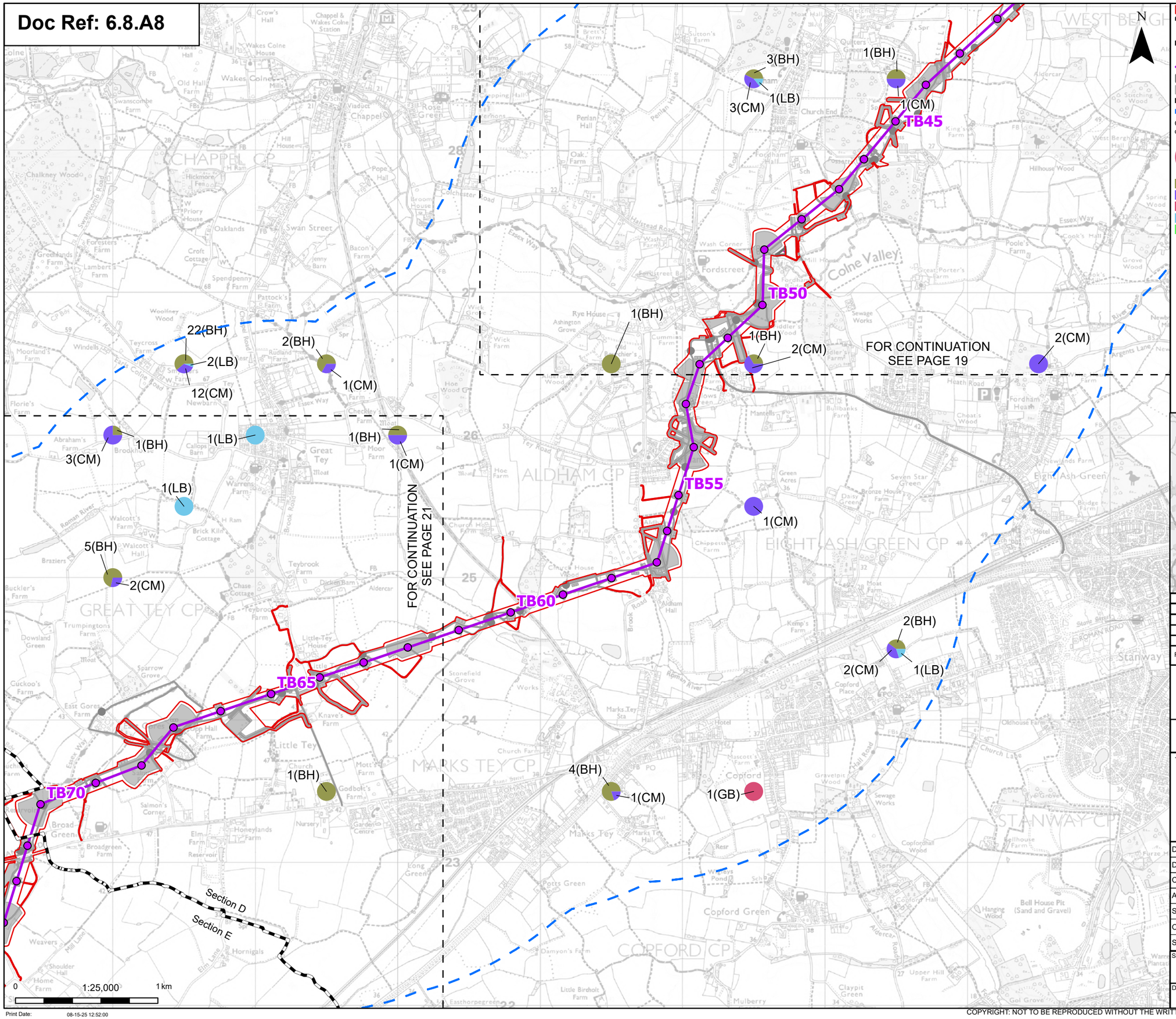

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Common gull (CM)
Great Black-backed gull (GB)
Lesser Black-backed gull (LB)
Yellow-legged gull (YG)

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

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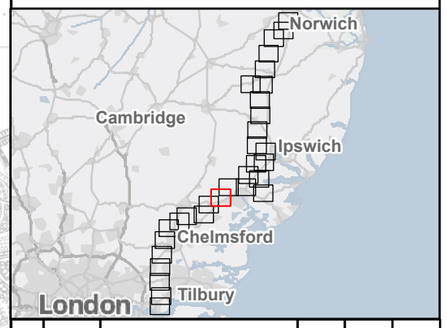

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity Collision Risk Secondary Species Gulls & Terns (Desk Study Data 2013-2022) Page 20 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
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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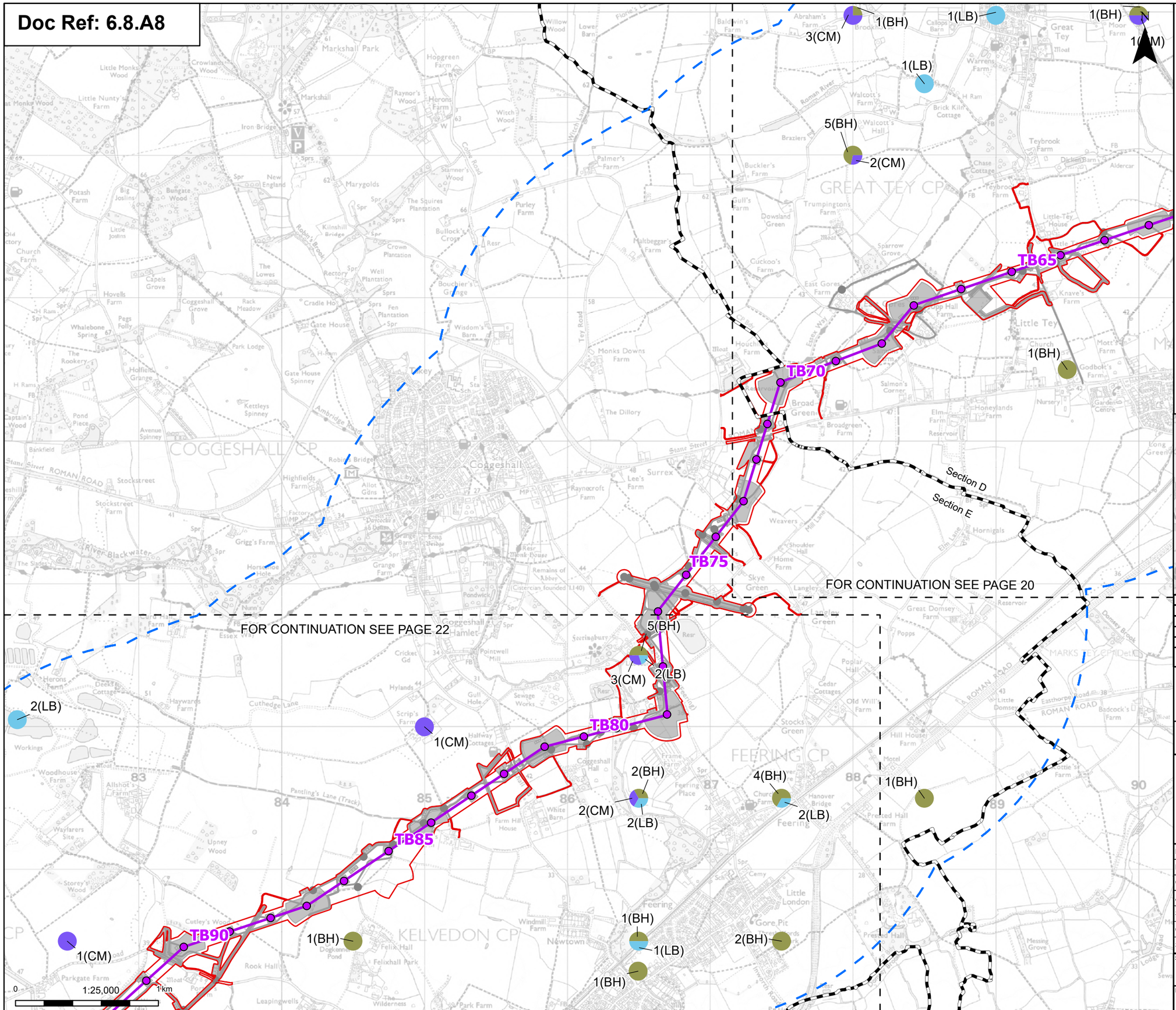

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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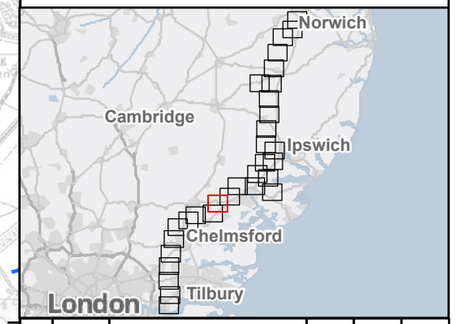

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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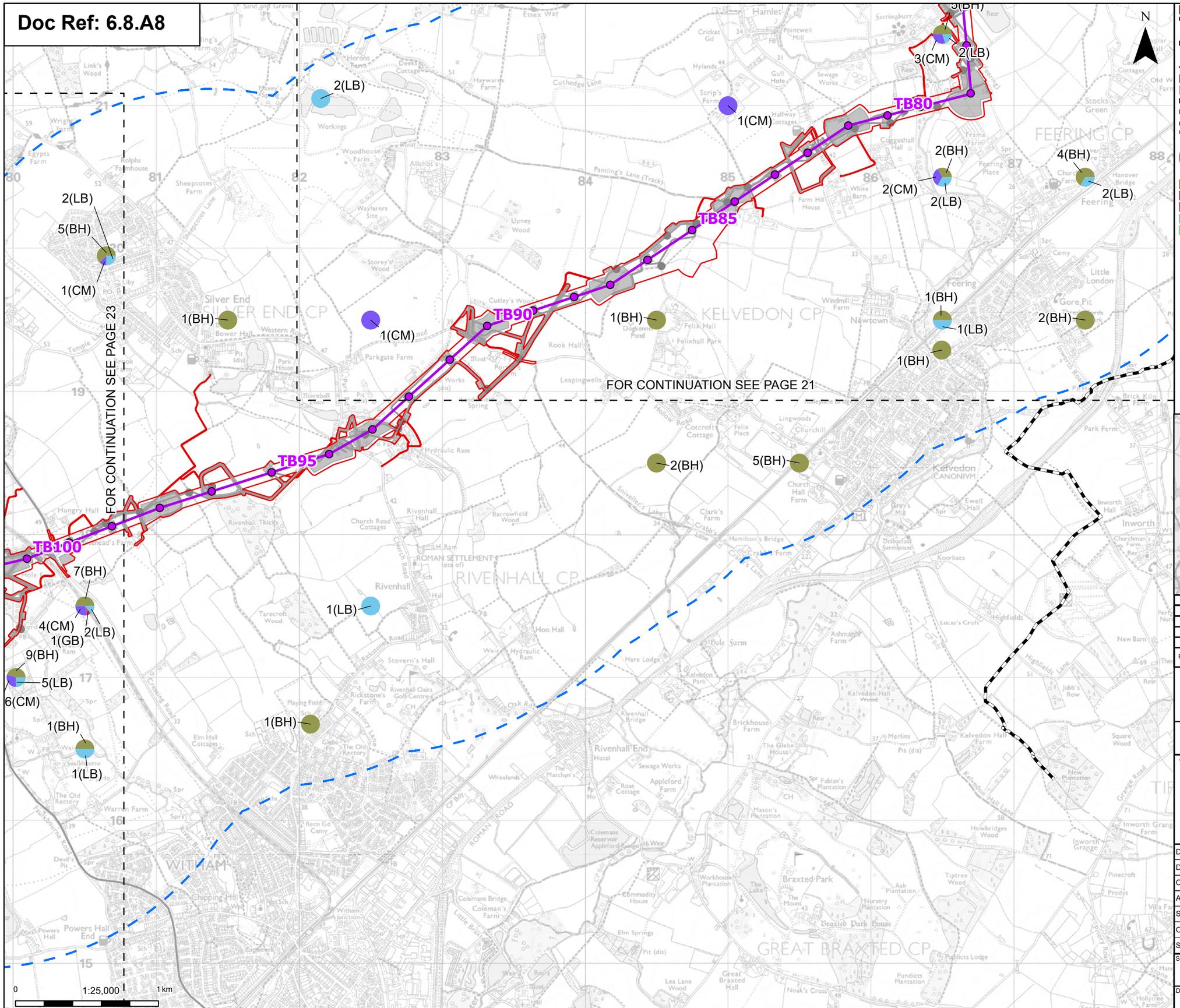

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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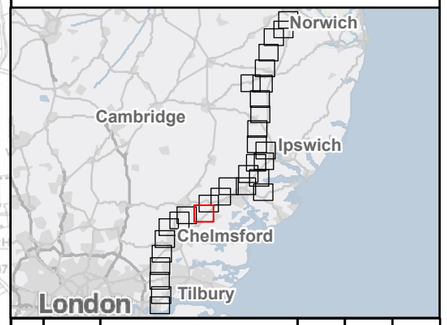

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Suitability Description:
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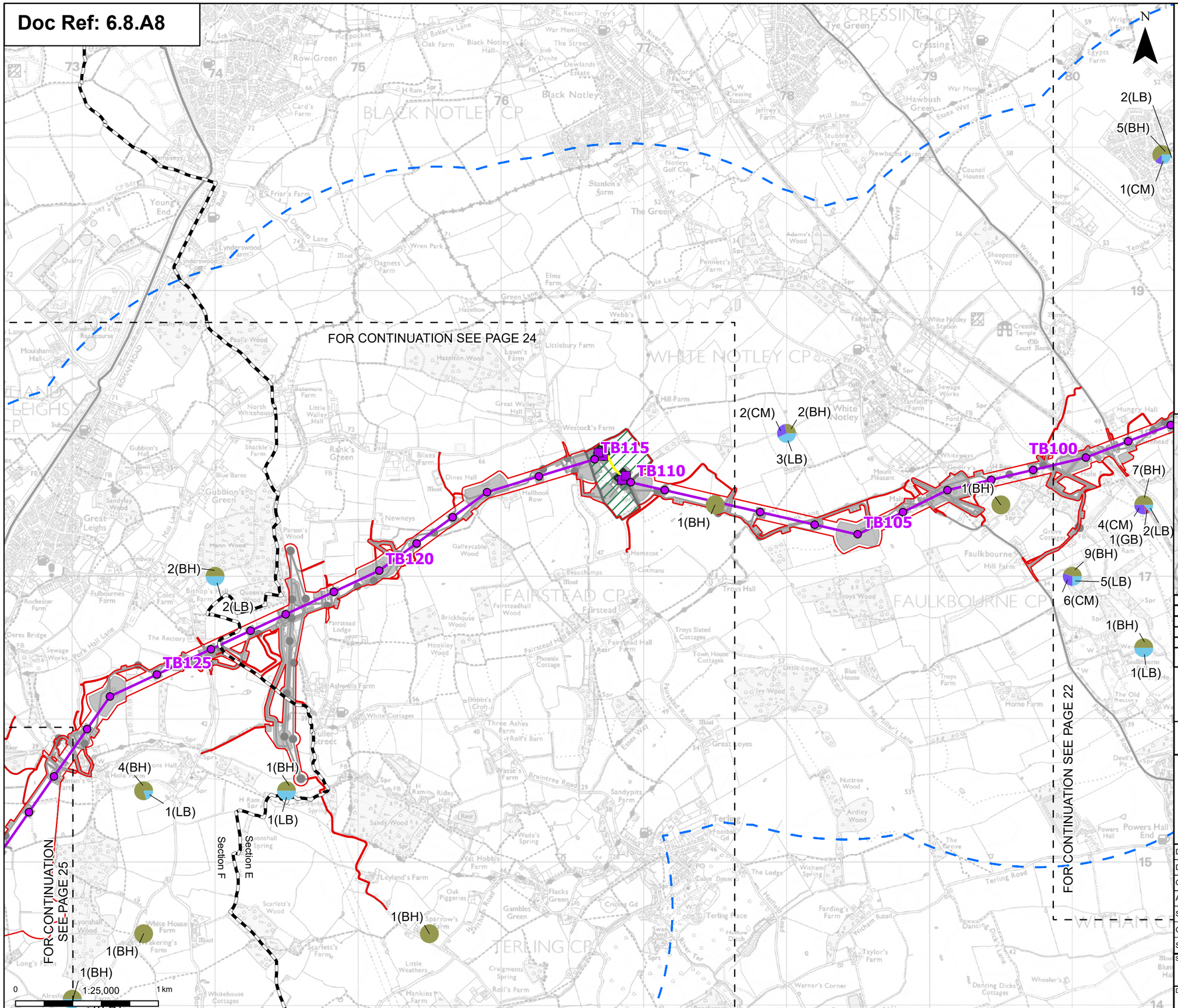

Order limits
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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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Suitability Description:
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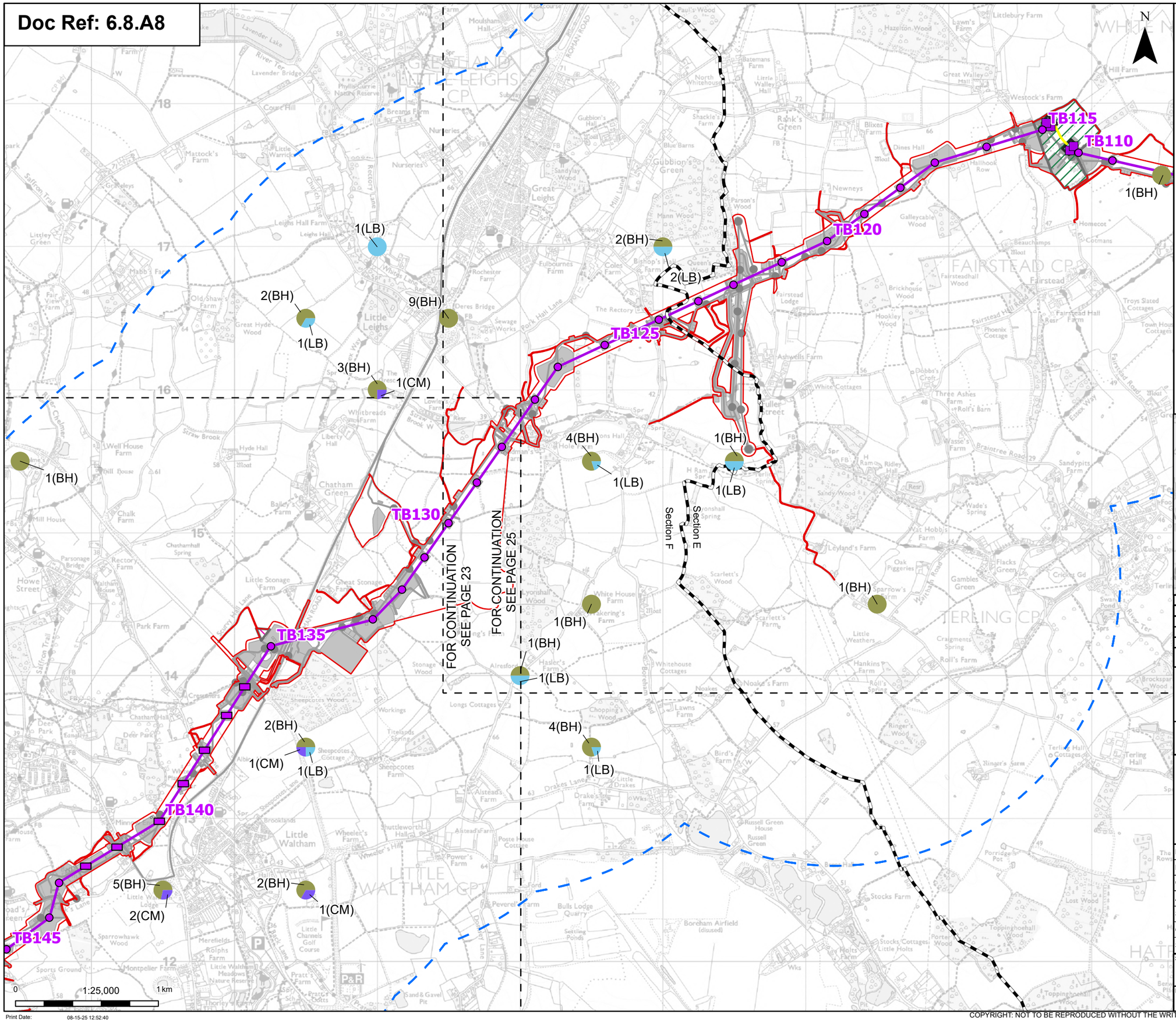

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Black-headed gull (BH)
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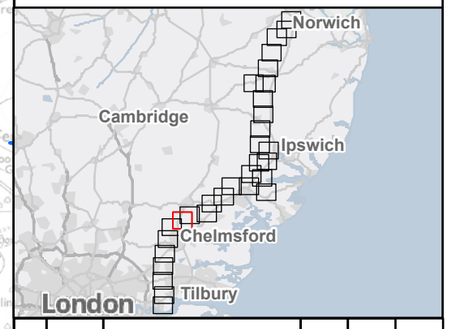

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

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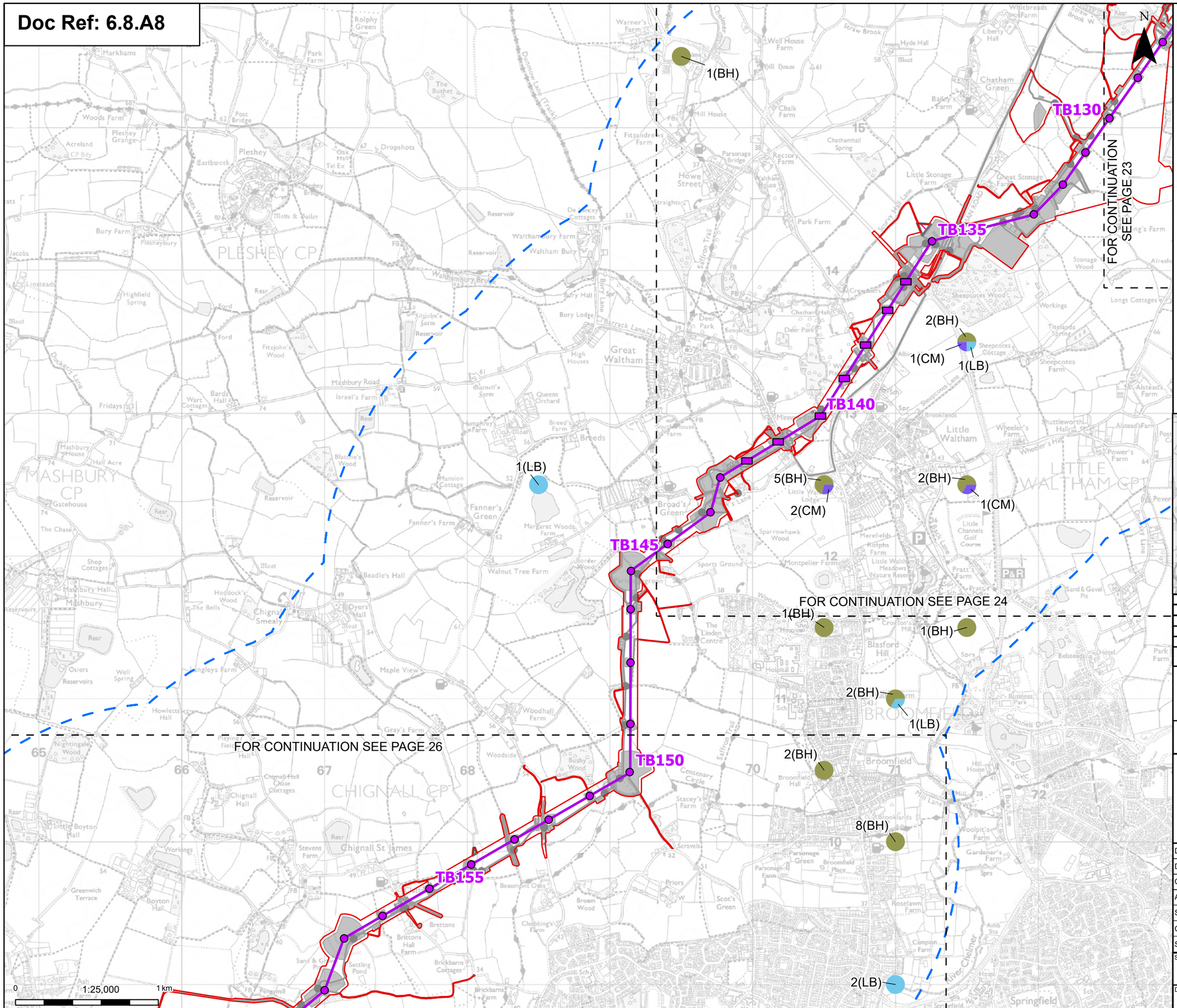

Order limits
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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 25 of 31

Designed	R. Anderton	Date	21 Aug 25
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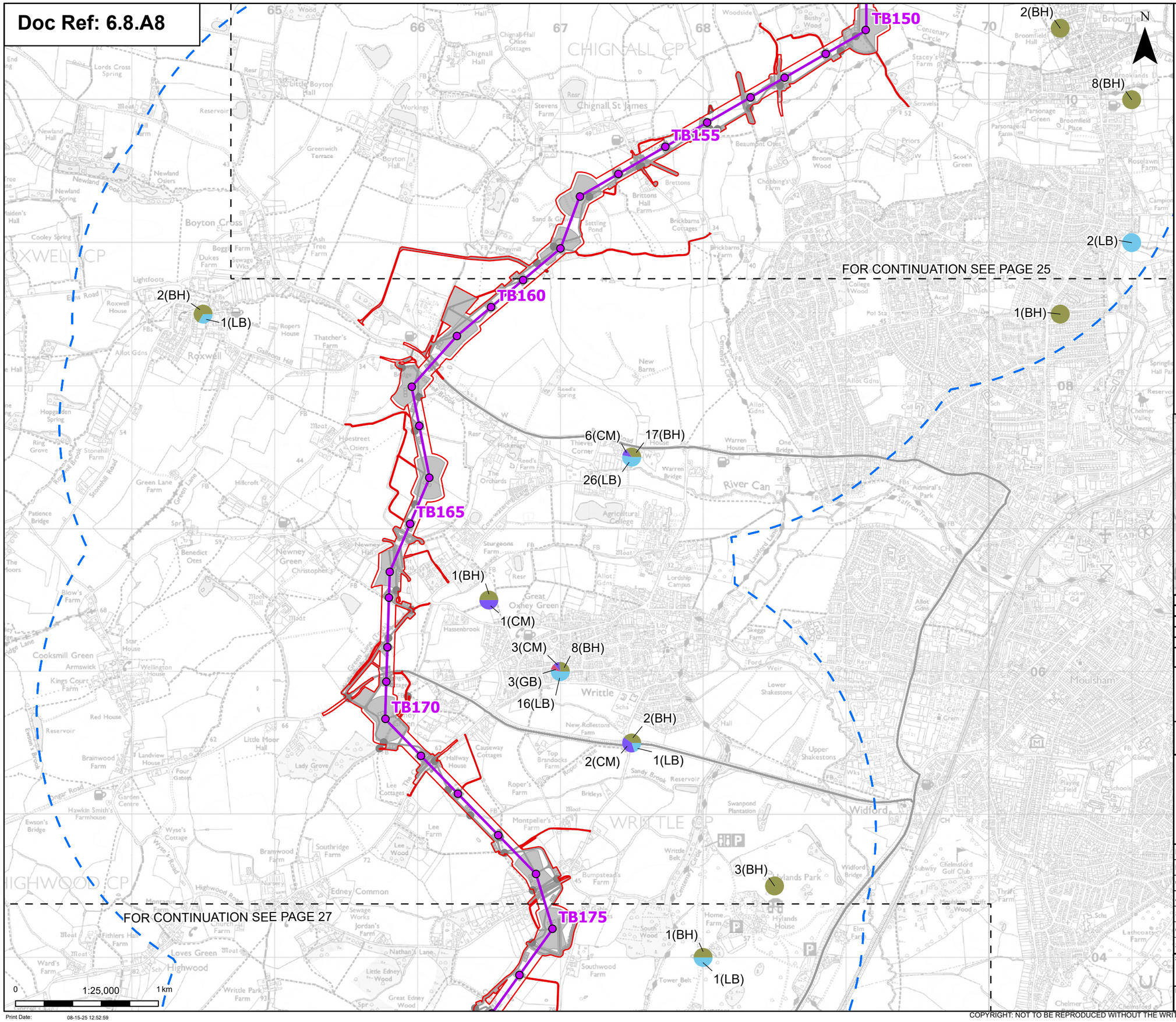

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT:
Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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TB175
TB180
TB185
TB190
TB195

1(BH)
1(LB)
2(BH)
2(LB)
1(BH)
1(CM)
1(BH)
2(BH)
4(BH)
1(CM)
1(BH)
2(BH)
6(BH)
3(CM)
2(LB)
1(LB)
1(BH)
1(BH)
1(CM)
3(BH)
3(BH)
1(LB)
1(BH)

Section F
Section G

N

0 1:25,000 1 km

Print Date: 08-15-25 12:53:15

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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Title:

Figure A8.8.15 - Ecology and Biodiversity Collision Risk Secondary Species Gulls & Terns (Desk Study Data 2013-2022) Page 27 of 31

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Suitability Description:
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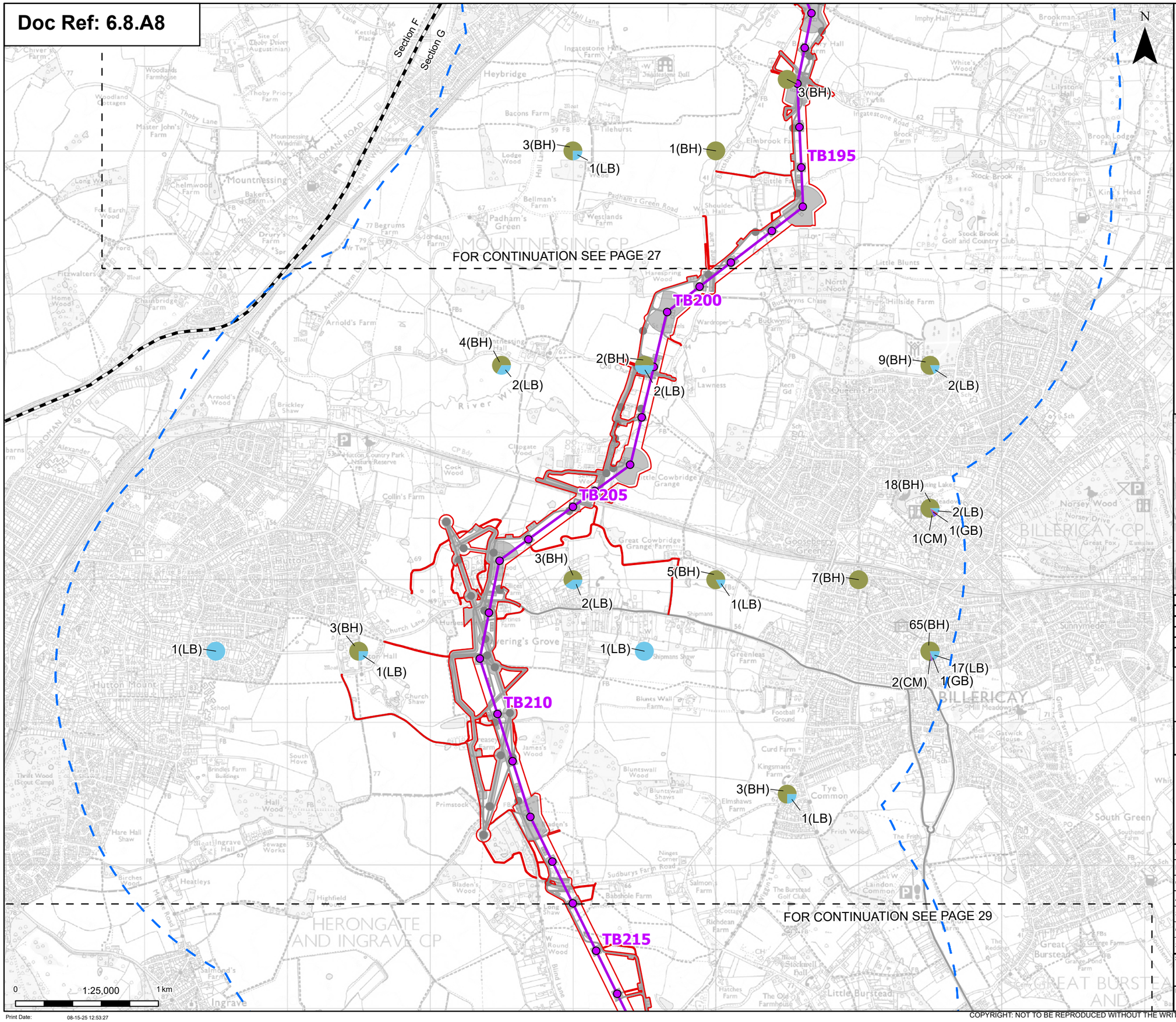

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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TB215

TB220

TB225

TB230

TB235

1(BH)
1(LB)
1(BH)
1(LB)
1(BH)
17(BH)
5(CM)
2(LB)
3(BH)
1(LB)
3(CM)

Section G

Section H

0 1:25,000 1 km

N

Order limits
Sheet index cutline
Project section line

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

Discipline specific constraints
2 km Study Area

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

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

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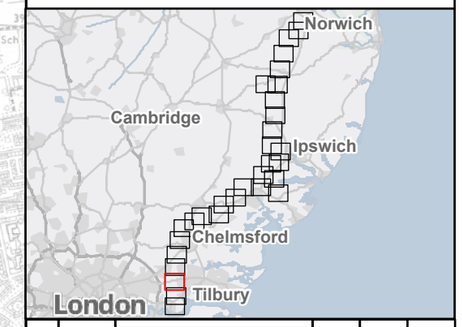

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PROJECT: Norwich to Tilbury

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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
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Designed	R. Anderton	Date	21 Aug 25
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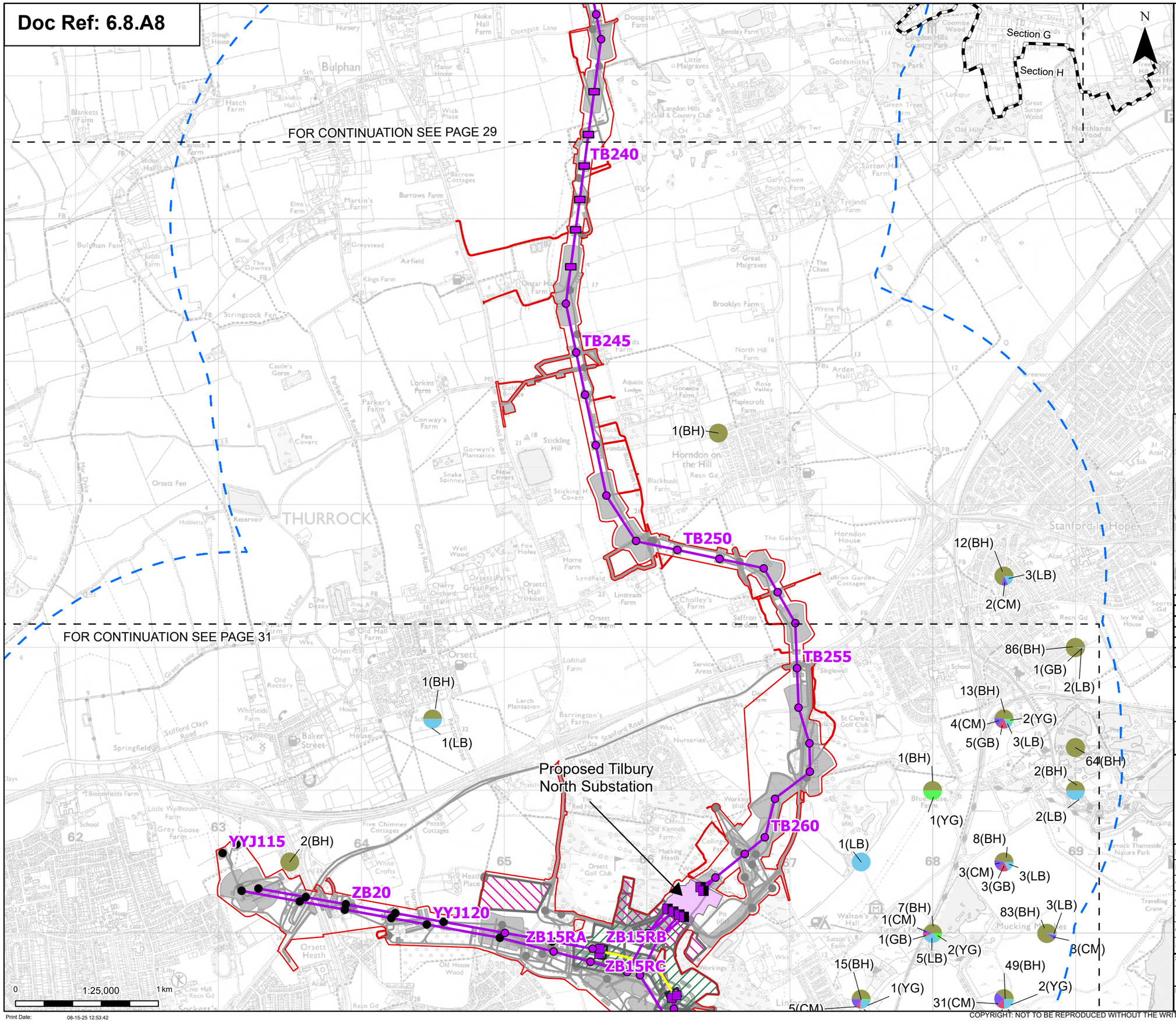

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Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 30 of 31

Designed	R. Anderton	Date	21 Aug 25
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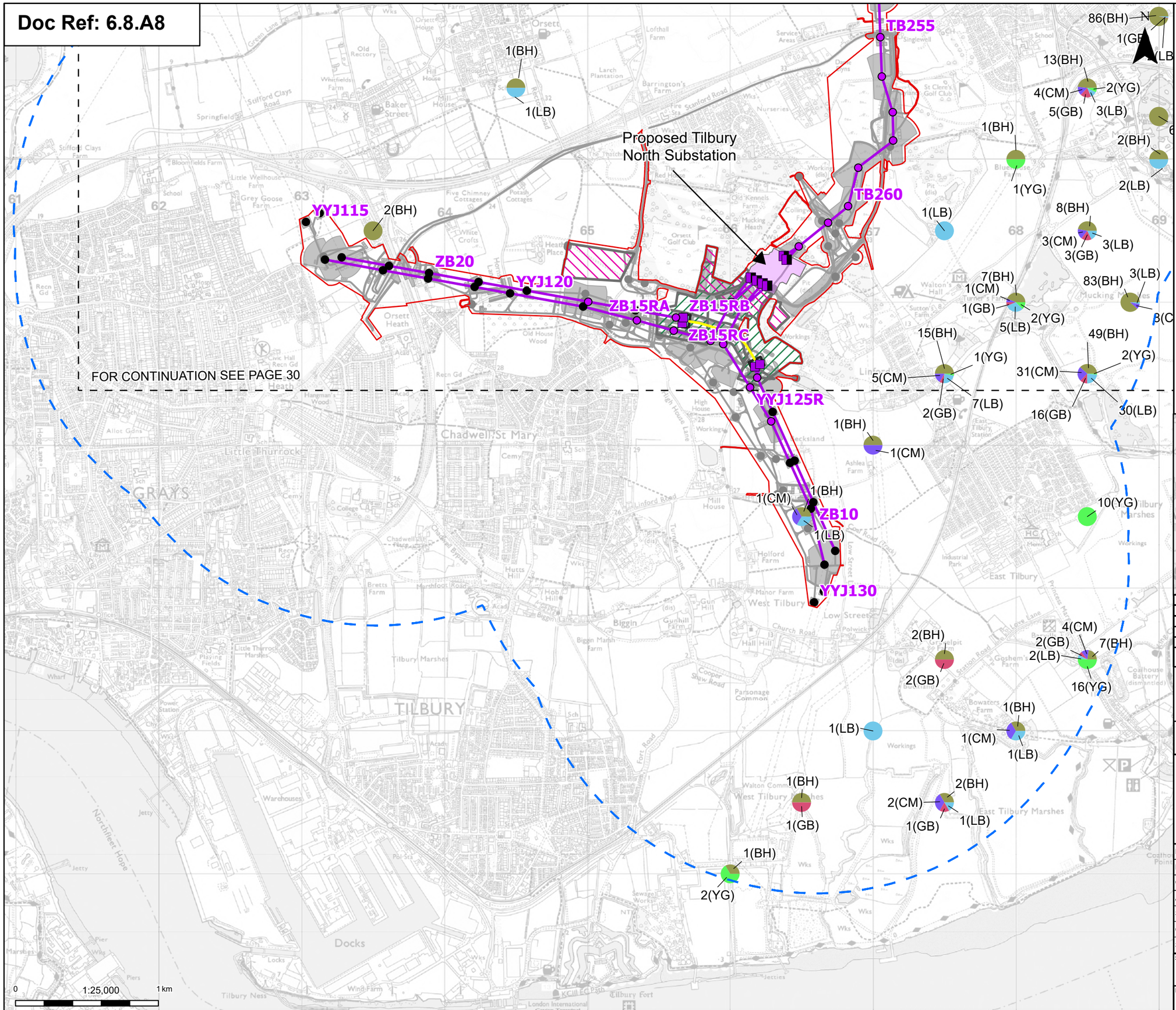

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.15 - Ecology and Biodiversity
Collision Risk Secondary Species
Gulls & Terns (Desk Study Data 2013-2022)
Page 31 of 31

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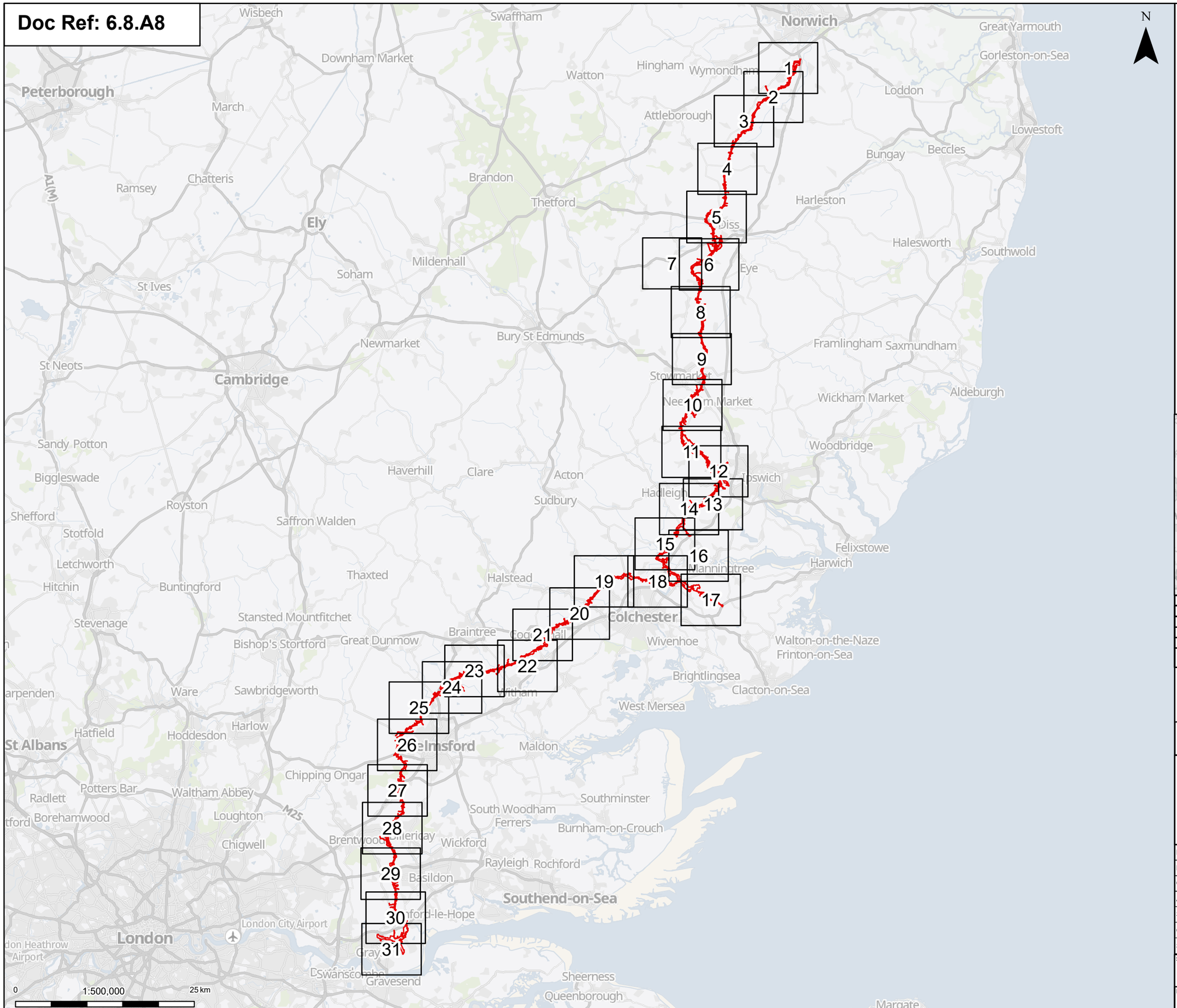

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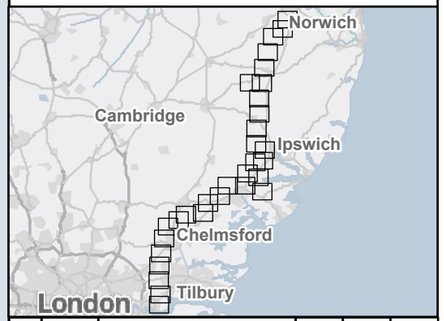

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PROJECT: Norwich to Tilbury

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

Title:

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

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Norwich Main Substation Extension (Future Baseline)

Norwich Main Substation

RG1

RG5

RG10

RG15

RG20

FOR CONTINUATION SEE PAGE 2

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Print Date: 08-15-25 12:50:45

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Order limits
Sheet index cutline

Proposed project design details

Proposed full line tension gantry
Proposed standard lattice pylon location
Proposed overhead line alignment
Norwich Main Substation
Norwich Main Substation Extension (future baseline)
Environmental area
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
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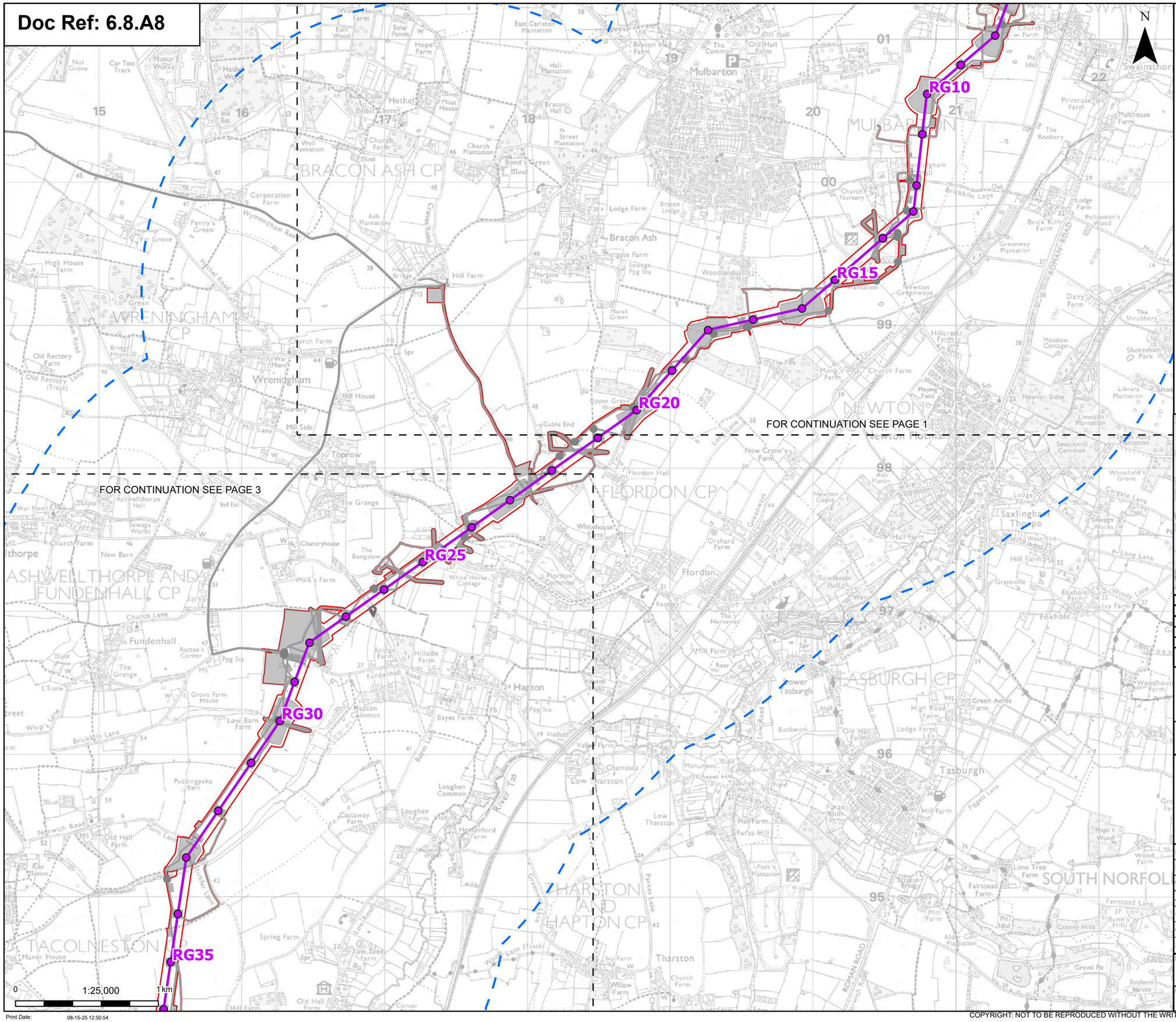
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WRENINGHAM CP
ASHWELLTHORPE AND FUNDENHALL CP
FLORDON CP
HARSTON AND HAPTON CP
TASBURGH CP
TACOLNESTON CP
SOUTH NORFOLK
Mulbarton
Bracon Ash
Wreningham
Fundenhall
Hapton
Flordon
Tasburgh
Tharston
Low Tharston
Newton Flotman
Swainsthorpe
Toprow
Hethel
Hill Farm
Hill House
Mill Side
Gable End
Church Farm
Lodge Farm
Bracon Lodge
Mergate Farm
Mergate Hall
Sewage Ppg Sta
Hethel Bridge
Penny's Green
Fir Grove
High House Farm
Old Rectory Farm
Old Rectory Lane (Track)
The Poplars
Corporation Farm
Wymondham Road
Hethel Road
Crane's Road
Ash Plantation
Well Plantation
Bond's Green
Church Plantation
Hall Plantation
Bracon Hall
Old Hall Farm
Rectory Lane
Primrose Farm
Malthouse Farm
The Rookery
Brick Kiln Lane
Brick Kiln Farm
Policeman's Wood
Greenway Plantation
Newton Greenways
Dairy Farm
The Shrubbery
Meadow Cottage
Shotesham Park
Newton Sides
Limekiln Plantation
Smockmill Common
Saxlingham Thorpe
Hall Farm
Foxhole
Foxhole Farm
Green Acres Farm
High Road Farm
Lodge Farm
Old Hall Farm
Tasburgh Hall
Furze Hill
Furze Mills
Peck's Plantation
Lime Tree Farm
Fairstead Farm
Fairstead Lane
Cranny Hills
Bunn's Hill
Aldercarr Plantation
Gravel Pit
Boyland House
Pope's Wood
Wood Farm
Woodhouse Farm
Whitefield's Grove
Cargate Lane
Long Lane
Ivy Farm
Gransville
Raintorpe Dales
Station Road
Tasburgh Road
Ipswich Road
Roman Road
Low Road
Grove Lane
Figgett Lane
Parkes Lane
Greenway Lane
Woodlands
Church Nursery
Playing Field
Hillcrest Farm
Monk's Farm
The Firs
Orchard Farm
Hall Farm
Mill Farm
Lodge Farm
Saxlingham Hall
Brickkiln Lane
Oak
Mill Lane
Mill House
Nursery
Mill Side
Lane
Hurn Lane
Stichter Lane
Norwich Road
Puddingpoke Barn
Grove Farm House
Low Barn Farm
Brickkiln Lane
Whip's Lane
L'Ecole
Rattee's Corner
Church Lane
Fundenhall Road
Hillside Farm
Bridge Farm
Bayes Farm
Bayes Lane
Hapton Common
Loughen Common
Loughen Farm
Castaway Farm
Horsenford Farm
Horsenford Dis Rsr
Viaduct
River Tas
Chamusca
Valley Farm
The Mill
Earthwork
Monument
Castle Corner
Chapel Hill
Ford
Spring Farm
Low Tree Farm
Ivy Farm
Willow Farm
Church Farm
Manor House
Old Hall Farm
Cancer
Walk's Farm
White Horse Cottage
Flordon Common
Whitehouse Farm
The Bungalow
Chantryhouse
The Grange
New Barn
Church Farm
Ashwellthorpe Hall
War Memorial
Sewage Works
Ind Est
Moats
Hope Farm
Solar Panel
East Wood
Wood House Farm
Nut Grove
Car Test Track
Motor Works
Hethel Wood
Burn Close
Thorn's
Moat House
Moat
Church Farm
Bracon Hall
Old Hall Farm
The Common
Lodge Farm
Rectory Lane
Primrose Farm
Malthouse Farm
The Rookery

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RG25

RG30

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FOR CONTINUATION SEE PAGE 2

FOR CONTINUATION SEE PAGE 4

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Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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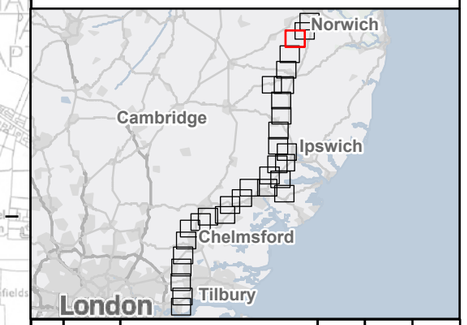

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
Page 3 of 31

Designed	R. Anderton	Date	21 Aug 25
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RG60

RG65

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Print Date: 08-15-25 12:51:08

- Order limits
- Sheet index cutline

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

- Cormorant (CA)
- Gannet (GX)
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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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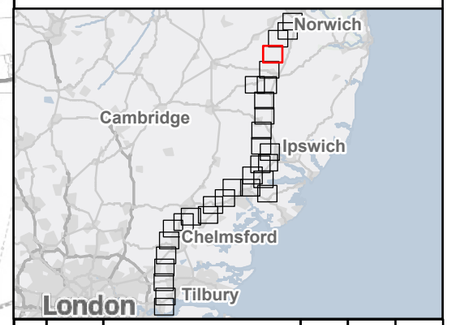

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PROJECT: Norwich to Tilbury

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Title:

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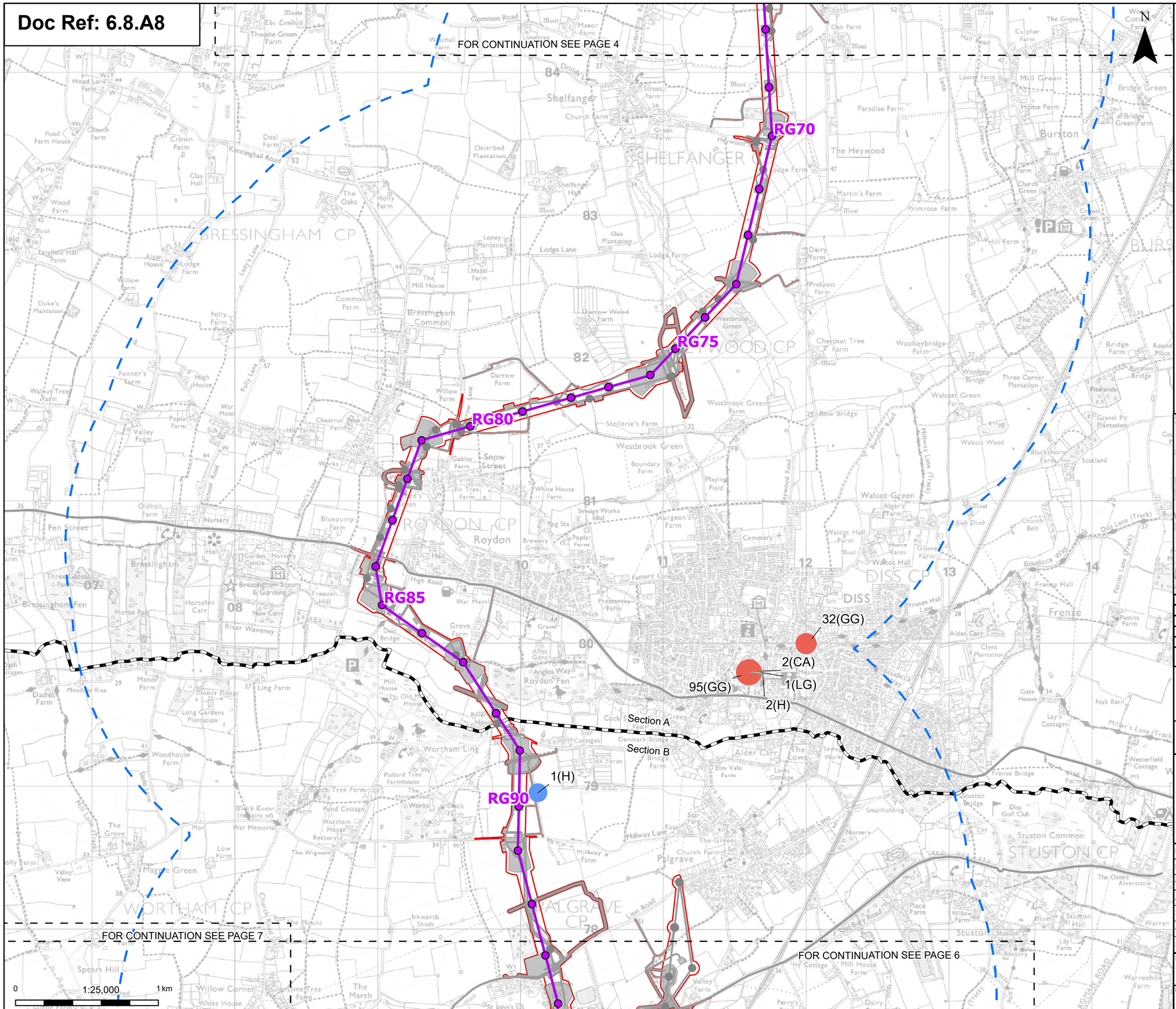

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Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

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

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

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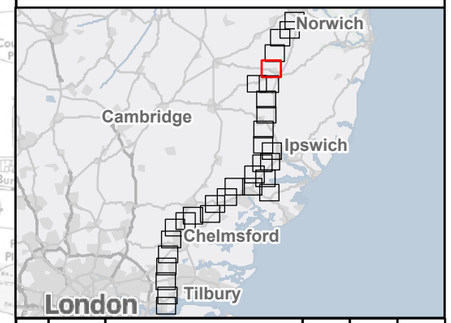

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PROJECT: Norwich to Tilbury

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Title:

Figure A8.8.16 - Ecology and Biodiversity Collision Risk Secondary Species Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
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FOR CONTINUATION SEE PAGE 7

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N

- Order limits
- Sheet index cutline

Proposed project design details

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

Discipline specific constraints

- 2 km Study Area

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

- Cormorant (CA)
- Gannet (GX)
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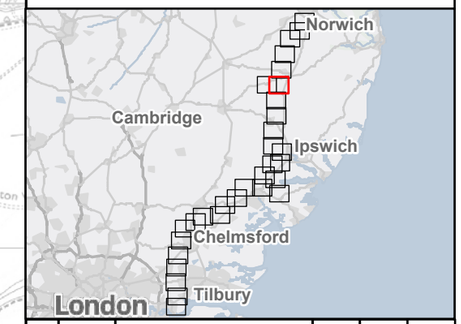

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Title:

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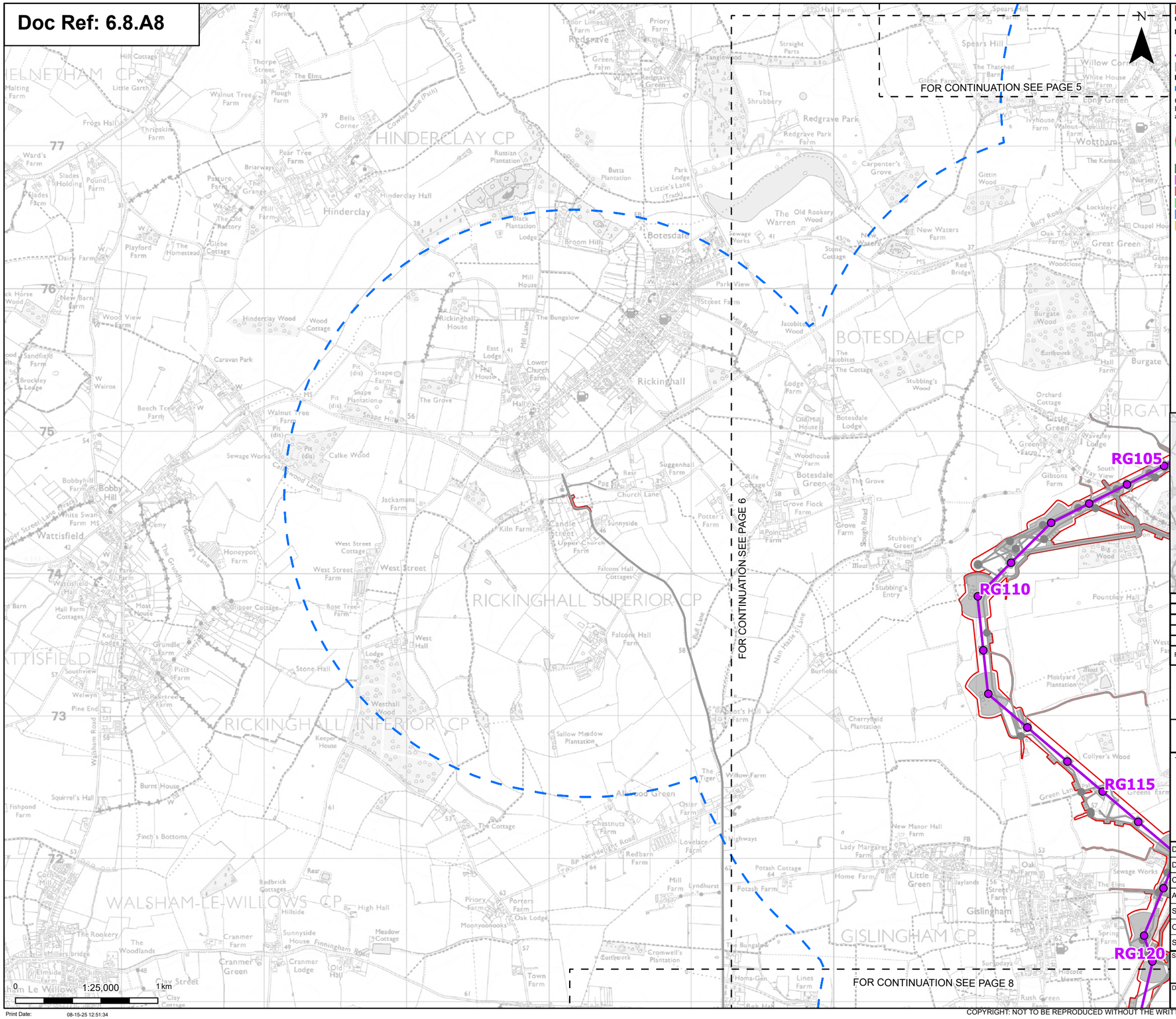

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Cormorant (CA)
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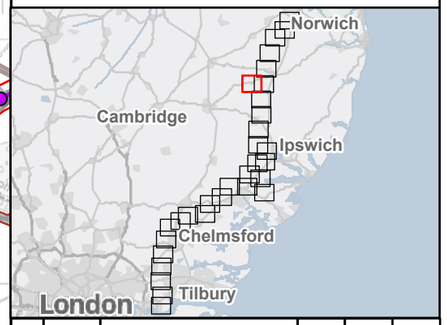

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PROJECT:
Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
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FOR CONTINUATION SEE PAGE 9

RG125

RG130

RG135

RG140

N

0 1:25,000 1 km

Print Date: 08-15-25 12:51:41

Order limits

Sheet index cutline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

Cormorant (CA)

Gannet (GX)

Great crested grebe (GG)

Great white egret (HW)

Grey heron (H)

Little grebe (LG)

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

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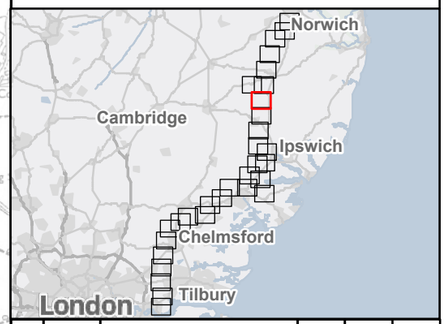

Rev	Date	Description	Drawn	Check	Approv
A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

nationalgrid

PROJECT: Norwich to Tilbury

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

Title:

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

Suitability Description:

Accepted as Concept Stage

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

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RG140

RG145

RG150

RG155

RG160

3(H)

FOR CONTINUATION SEE PAGE 10

0 1:25,000 1 km

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N

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

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PROJECT: Norwich to Tilbury

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

Title:

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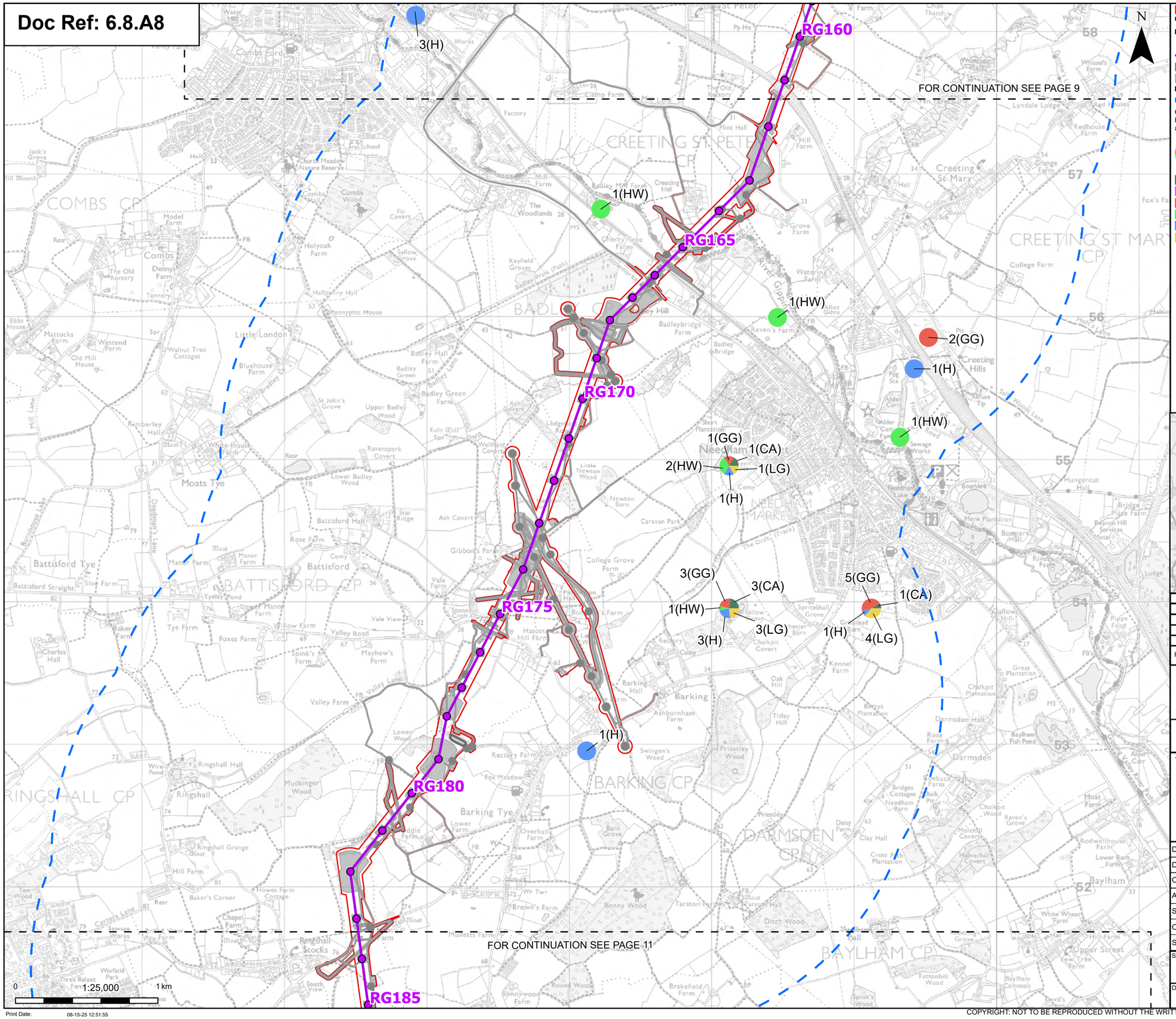

Order limits

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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

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PROJECT: Norwich to Tilbury

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Title:

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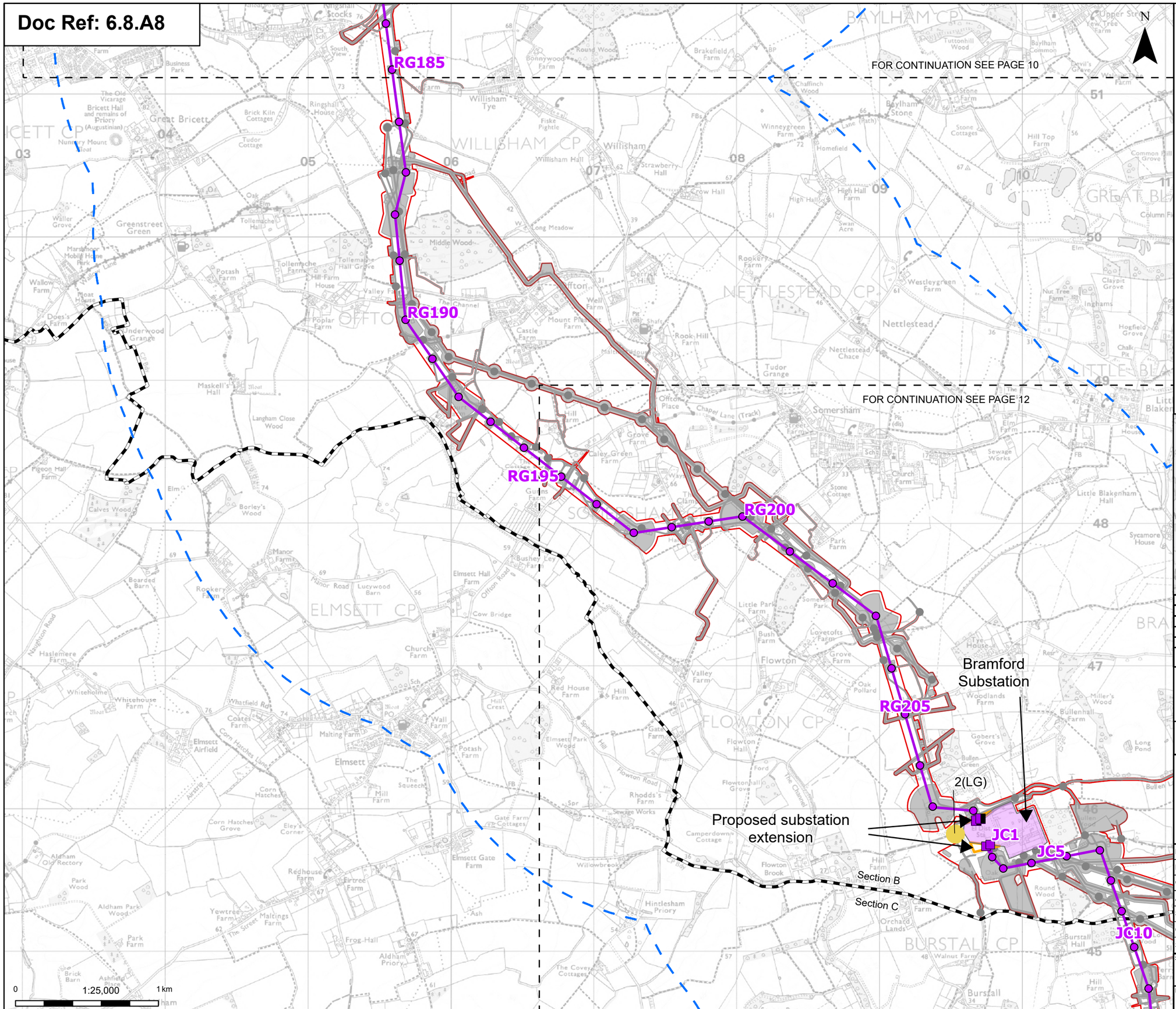

Order limits
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Proposed project design details

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

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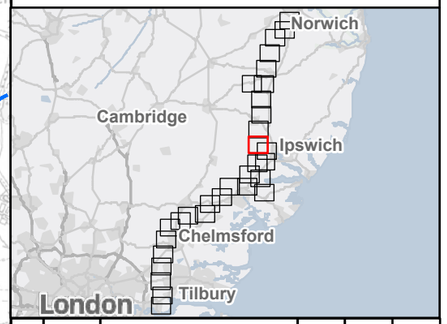

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PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027
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Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
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RG195
RG200
RG205
Bramford Substation
Proposed substation extension
JC1
JC5
JC10
JC15
JC20
2(LG)
4(CA)
3(GG)
1(LG)
1(H)
1(H)
1(LG)
5(CA)
2(LG)
4(GG)
1(CA)
3(GG)
1(H)
1(LG)
1(H)
10(CA)
1(LG)
1(CA)
3(H)
1(H)
1(H)
1(H)
Section B
Section C
FOR CONTINUATION SEE PAGE 11
FOR CONTINUATION SEE PAGE 13
FOR CONTINUATION SEE PAGE 14
SOMERSHAM CP
FLOWTON CP
BRAMFORD CP
BURSTALL CP
HINTLESHAM CP
CHATTISHAM CP
SPROUGHTON CP
WHITTON CP
0 1:25,000 1 km
N

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
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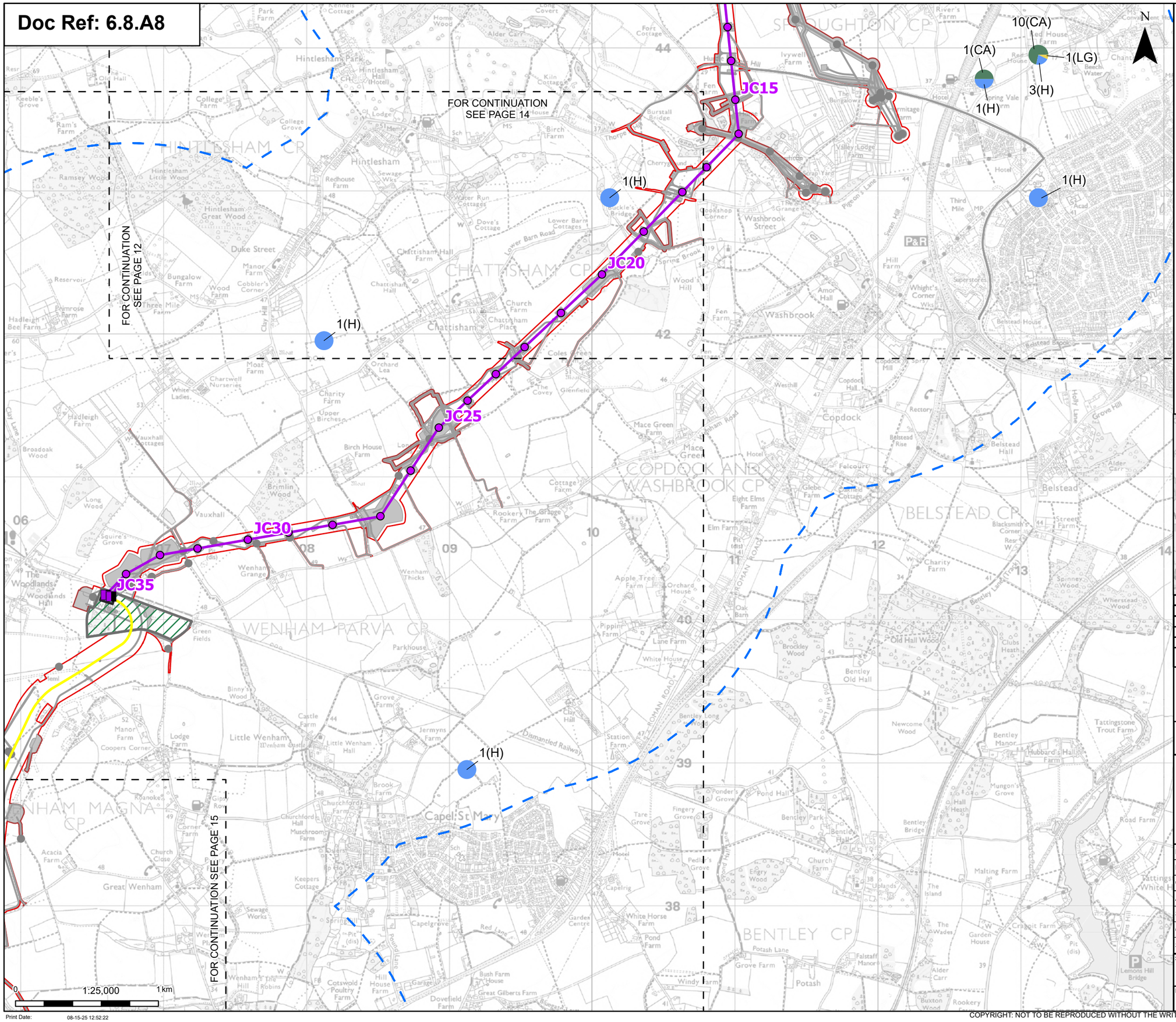
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JC20
JC25
JC30
JC35
1(H)
1(H)
1(H)
1(H)
1(CA)
10(CA)
1(LG)
3(H)
FOR CONTINUATION SEE PAGE 14
FOR CONTINUATION SEE PAGE 12
FOR CONTINUATION SEE PAGE 15
HINTLESHAM CP
CHATTISHAM CP
COPDOCK AND WASHBROOK CP
BELSTEAD CP
WENHAM PARVA CP
BENTLEY CP
Capel St Mary
Great Wenham
Copdock
Washbrook
Belstead
Bentley
Hintlesham
Chattisham
Little Wenham
Dismantled Railway
ROMAN ROAD
Duke Street
Lower Barn Road
Pond Hall
Old Hall Wood
Potash
Potash Lane
Bentley Road
Belstead Brook
Grove Hill
Holly Lane
Rectory
Hall Heath
Bentley Park
Bentley Hall
Bentley Bridge
Bentley Manor
Bentley Old Hall
Bentley Long
Bentley Lane
Pond's Grove
Fingery Grove
Tare Grove
Pedlar's Grove
Mungon's Grove
Newcome Wood
Tattingstone Trout Farm
Hubbard's Hall Farm
Brockley Wood
Clubs Heath
Wherstead Wood
Spinney Wood
Blacksmith's Corner
Street Farm
Charity Farm
Crabbit Farm
Malting Farm
The Island
The Wades
Garden House
Alder Carr
Lemons Hill Bridge
Rookery
Buxton Wood
Grove Farm
Falstaff Manor
Windy Farm
Pond Farm
White Horse Farm
Capelrig
Capelgrove
Red Lane
Pound Lane
Hill House Farm
Bush Farm House
Great Gilberts Farm
Dovefield Farm
Cotswold Poultry Farm
Garage
Garden Centre
Sewage Works
Keepers Cottage
Acacia Farm
Church Close
Corner Farm
Roanoke
Gipsy Rose
Churchford Farm
Churchford Hall
Muschroom Farm
Brook Farm
Little Wenham Hall
Little Wenham Wenham Castle
Castle Farm
Manor Farm
Coopers Corner
Lodge Farm
Jermyns Farm
Grove Farm
Clay Hill
Station Farm
Binny's Wood
Green Fields
Parkhouse
Pippin Farm
Lane Farm
White House
Apple Tree Farm
Orchard House
Oak Barn
Eight Elms Farm
Elm Farm
Glebe Farm
Rookery Farm
The Grange Farm
Wenham Grange
Wenham Thicks
Brimlin Wood
Vauxhall
Squire's Grove
The Woodlands
Woodlands Hall
Long Wood
Broadoak Wood
Hadleigh Farm
Hadleigh Bee Farm
Primrose Farm
Three Mile Farm
Wood Farm
Cobbler's Corner
Bungalow Farm
Manor Farm
Reservoir
Ramsey Wood
Ram's Farm
Keeble's Grove
Hintlesham Park
Hintlesham Hall (Hotel)
Hintlesham Little Wood
Hintlesham Great Wood
College Farm
College Grove
Redhouse Farm
Birch Farm
Sewage Wks
Water Run Cottages
Dove's Cottage
Lower Barn Cottages
Chattisham Hall
Chattisham Hall Farm
Church Farm
Chattisham Place
Wood Hill
Spring Brook
Fen Farm
Coles Green
Orchard Lea
Moat Farm
Chartwell Nurseries
White Ladies
Charity Farm
Upper Birches
Birch House Farm
Mace Green Farm
Mace Green
Cottage Farm
Rookery Farm
Elm Farm
Apple Tree Farm
Pippin Farm
Lane Farm
Oak Barn
Brockley Wood
Bentley Old Hall
Bentley Long
Bentley Lane
Pond's Grove
Fingery Grove
Tare Grove
Pedlar's Grove
Mungon's Grove
Newcome Wood
Tattingstone Trout Farm
Hubbard's Hall Farm
Hall Heath
Bentley Park
Bentley Hall
Bentley Bridge
Bentley Manor

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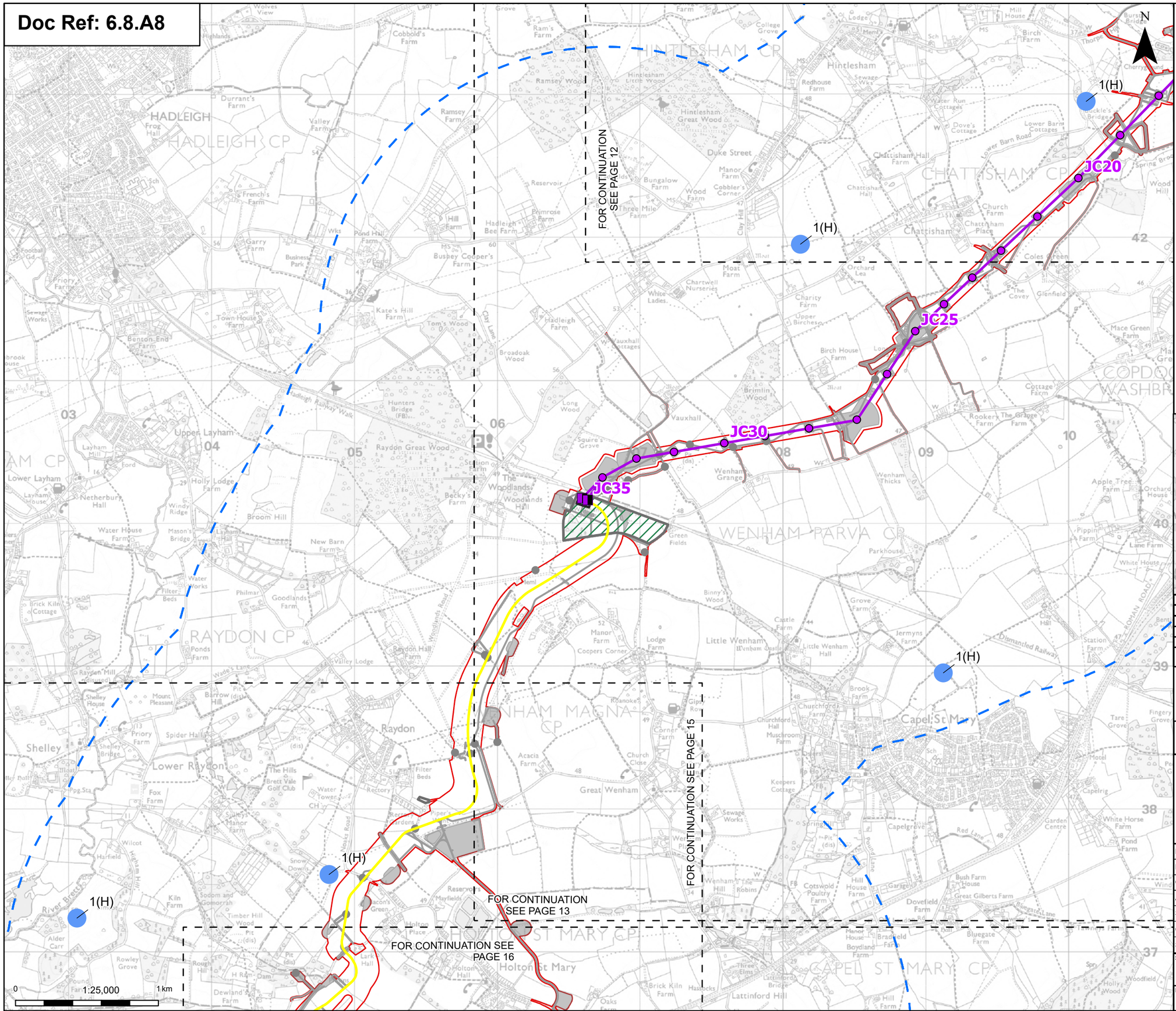

Order limits
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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

Cormorant (CA)
Gannet (GX)
Great crested grebe (GG)
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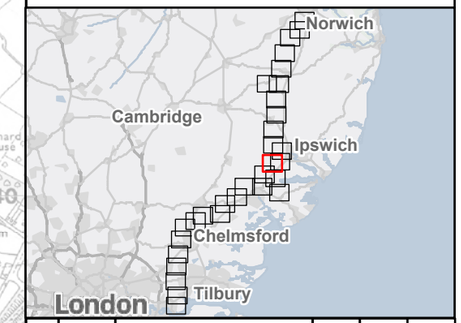

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

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PROJECT: Norwich to Tilbury

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

Title:

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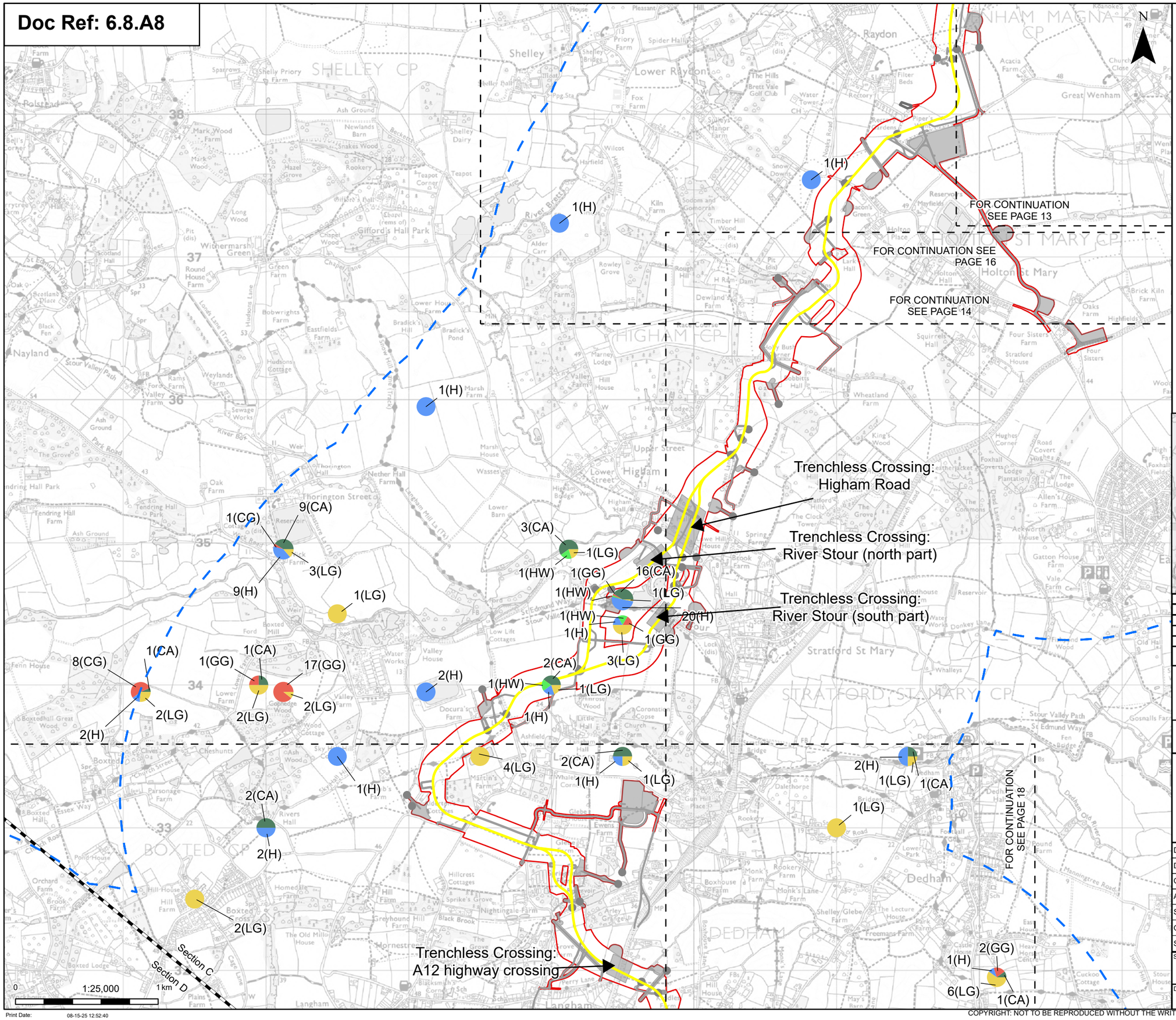

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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PROJECT: Norwich to Tilbury

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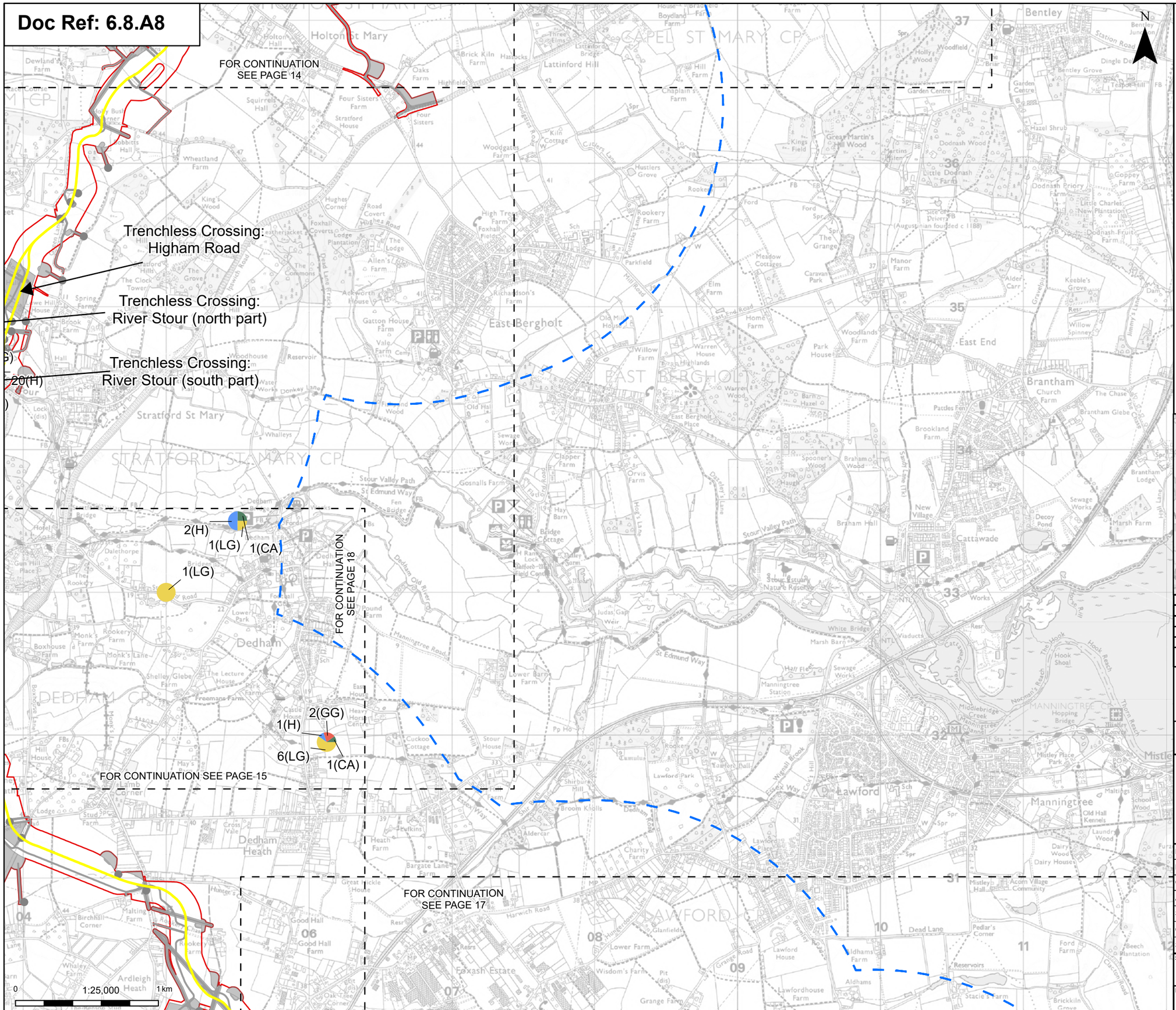

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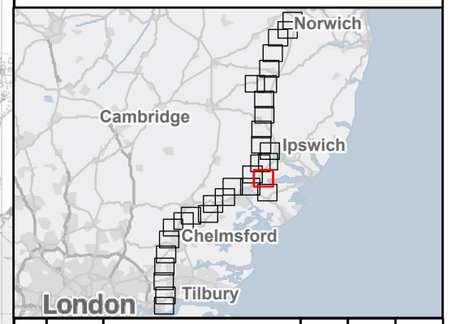

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PROJECT:
nationalgrid Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
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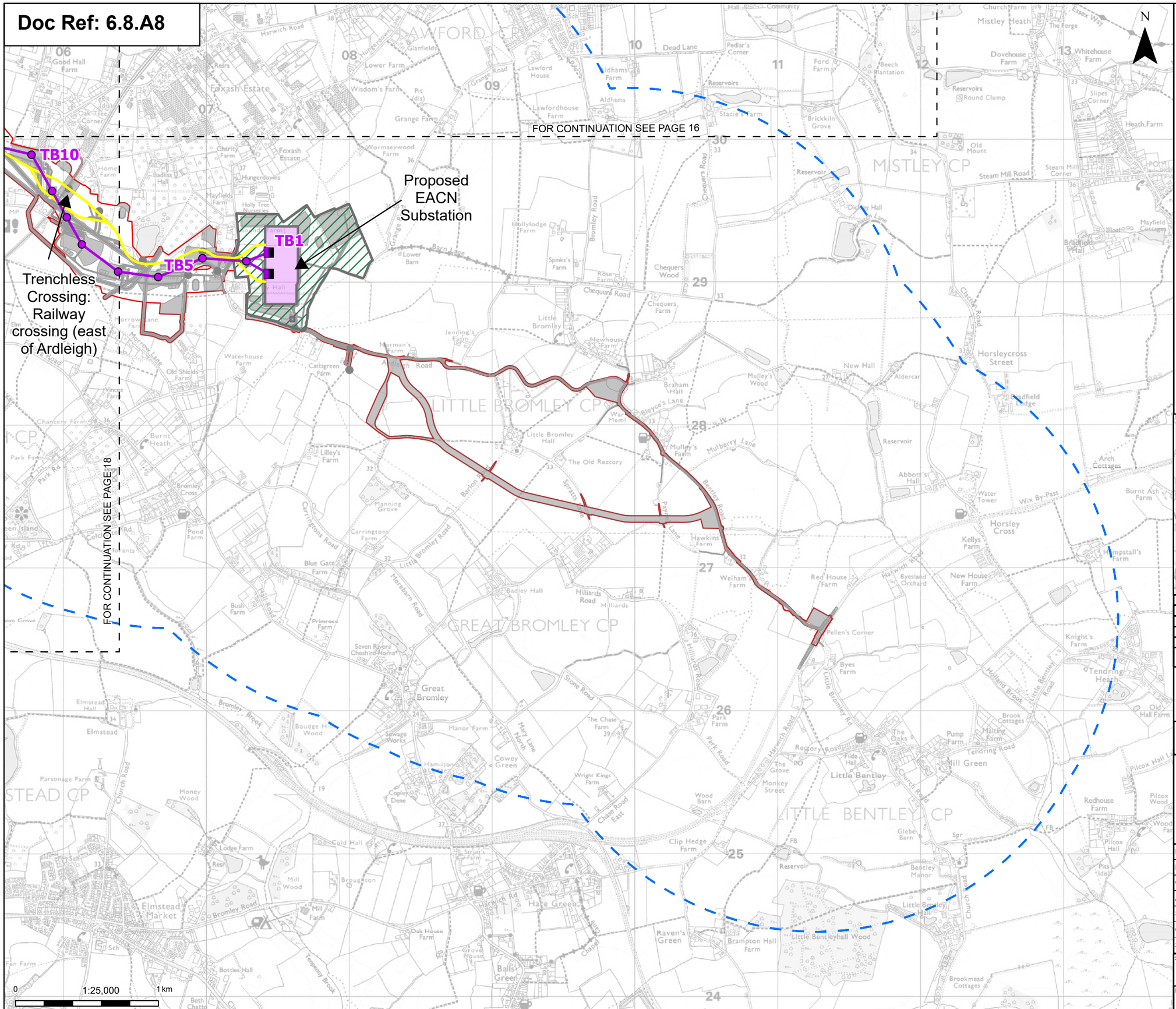

Order limits
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Proposed project design details

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

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

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

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PROJECT:
Norwich to Tilbury

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

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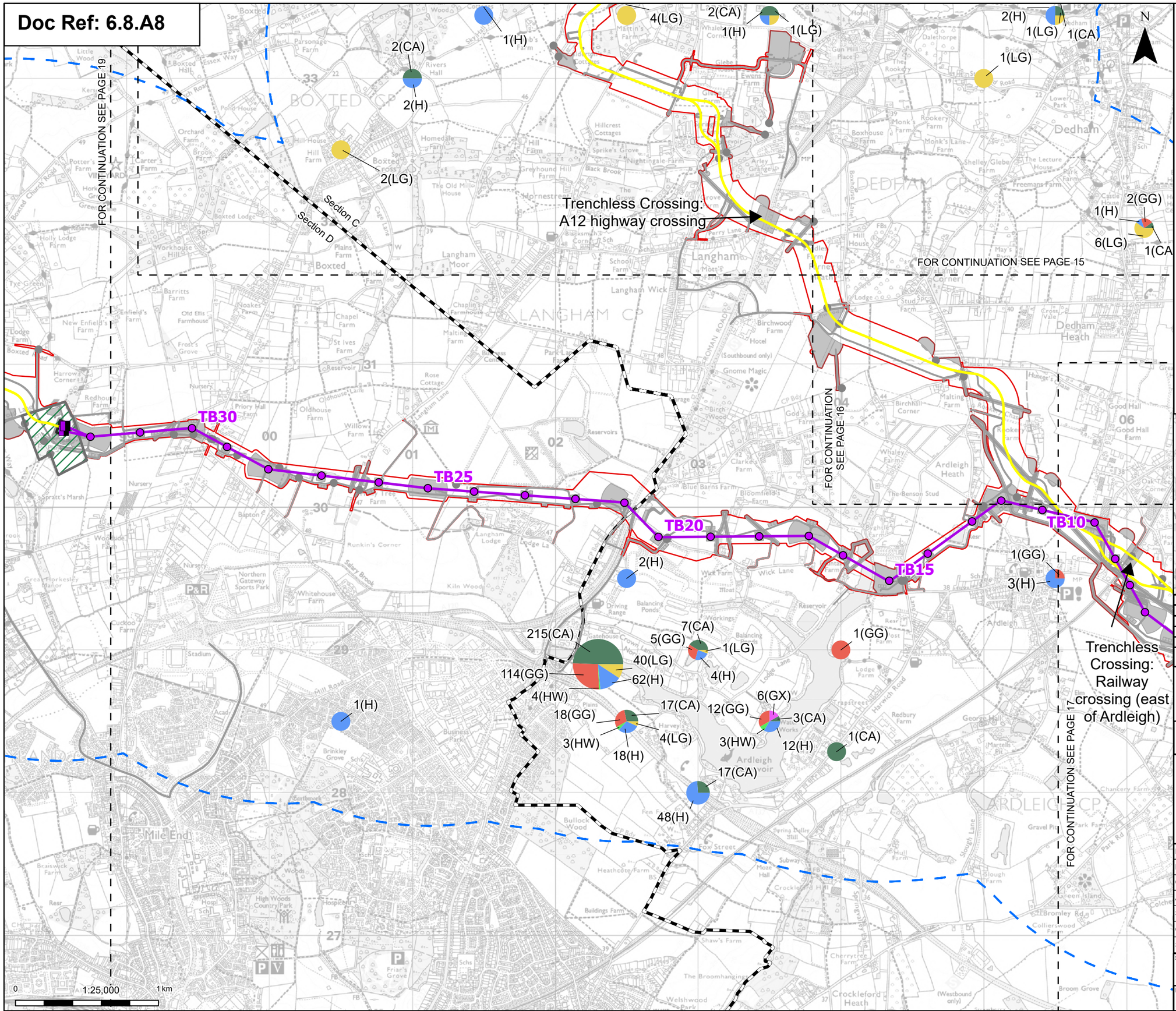

Order limits
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Project section line

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
Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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

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PROJECT: Norwich to Tilbury

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

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

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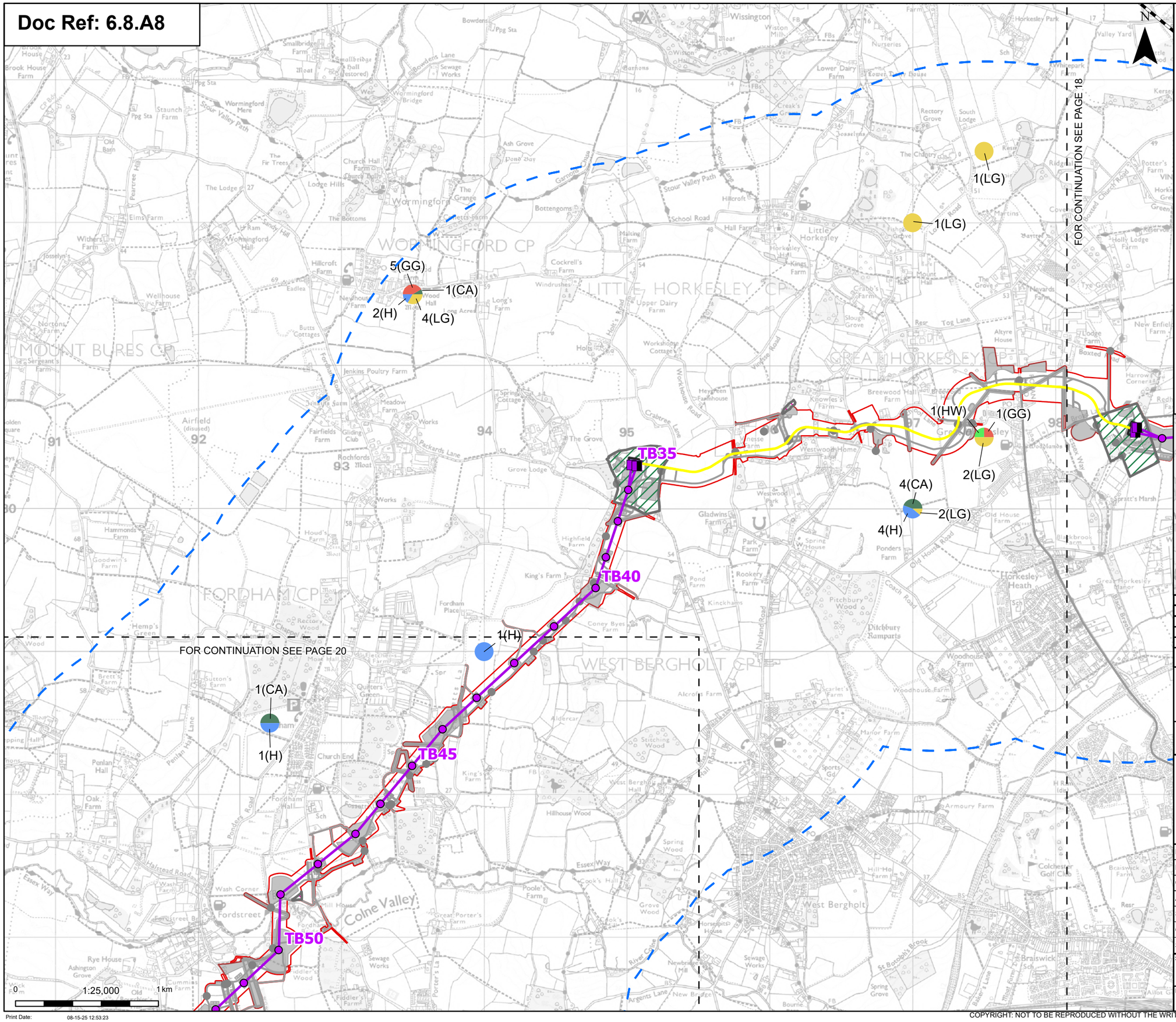

Order limits
Sheet index cutline
Project section line

Proposed project design details

Proposed full line tension gantry
Proposed standard lattice pylon location
Proposed overhead line alignment
Proposed underground cable alignment
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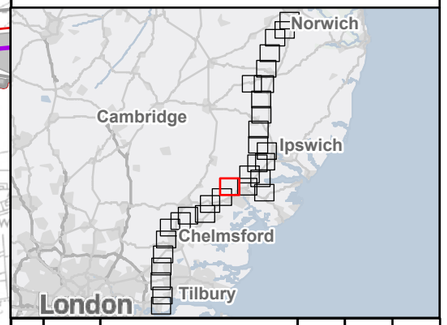

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PROJECT: Norwich to Tilbury

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

Title:

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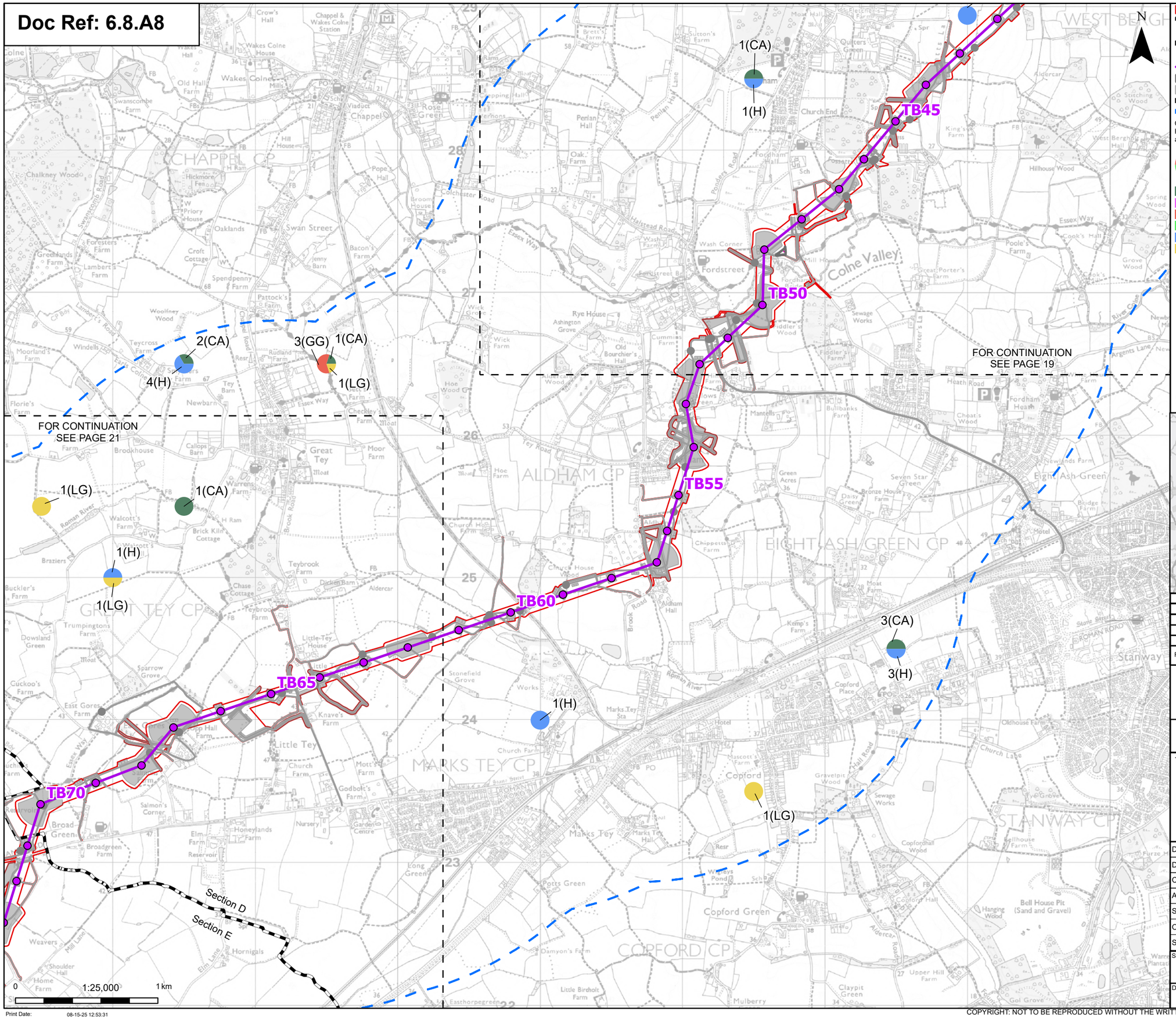

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Order limits
Sheet index cutline
Project section line

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

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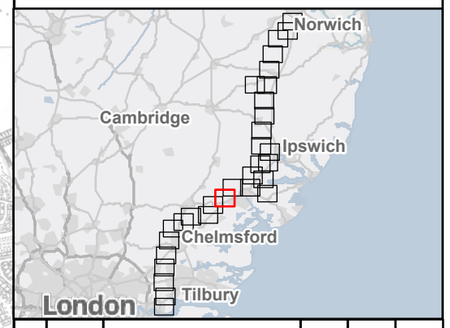

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

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PROJECT: Norwich to Tilbury

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

Title:

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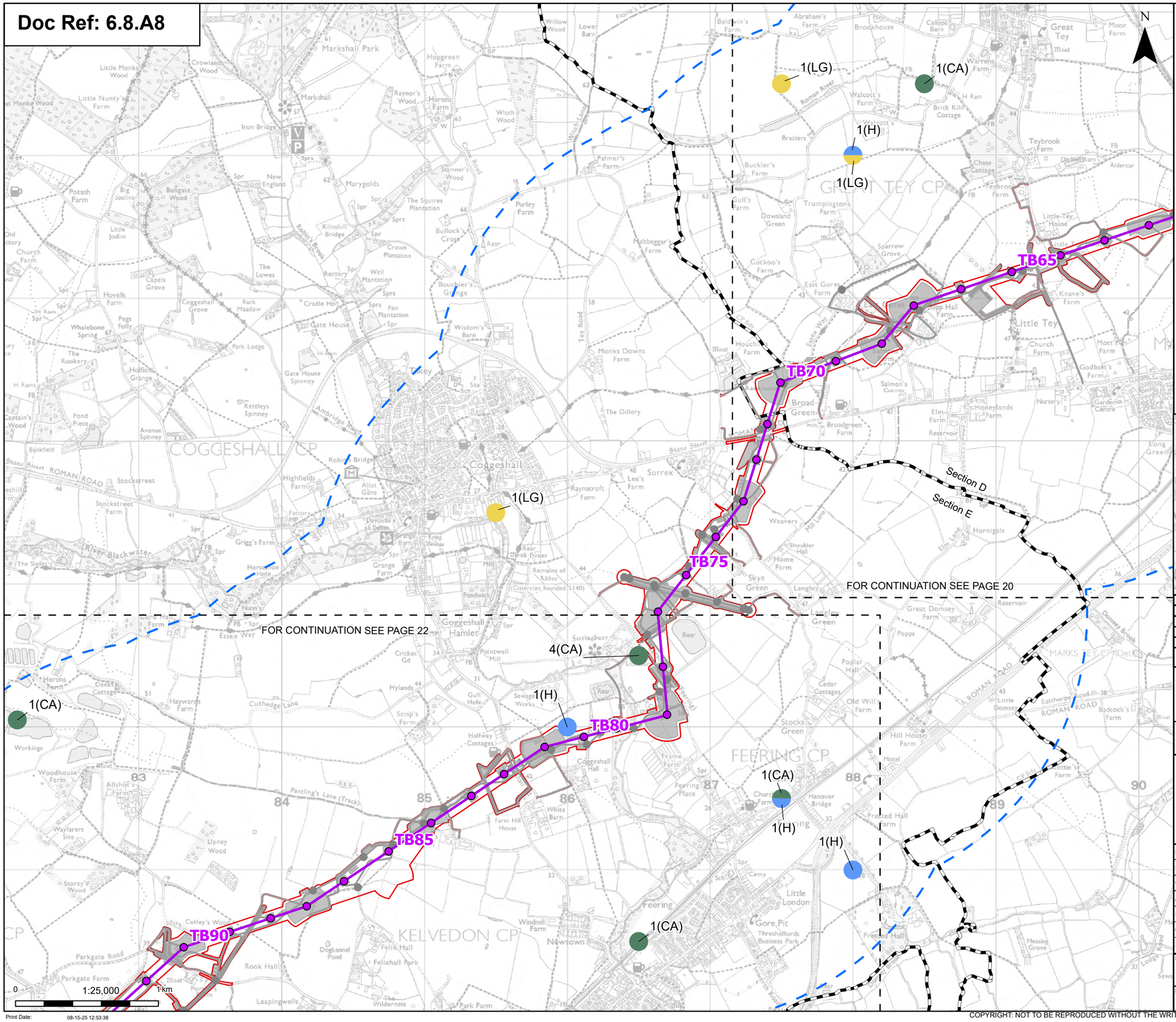

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Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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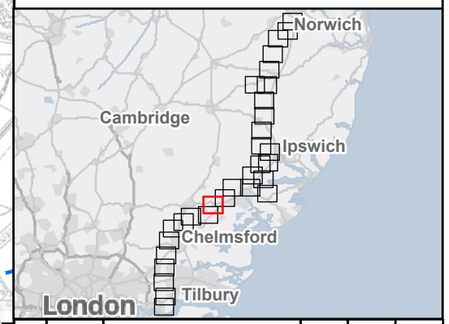

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PROJECT:
Norwich to Tilbury

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

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

Suitability Description:
Accepted as Concept Stage

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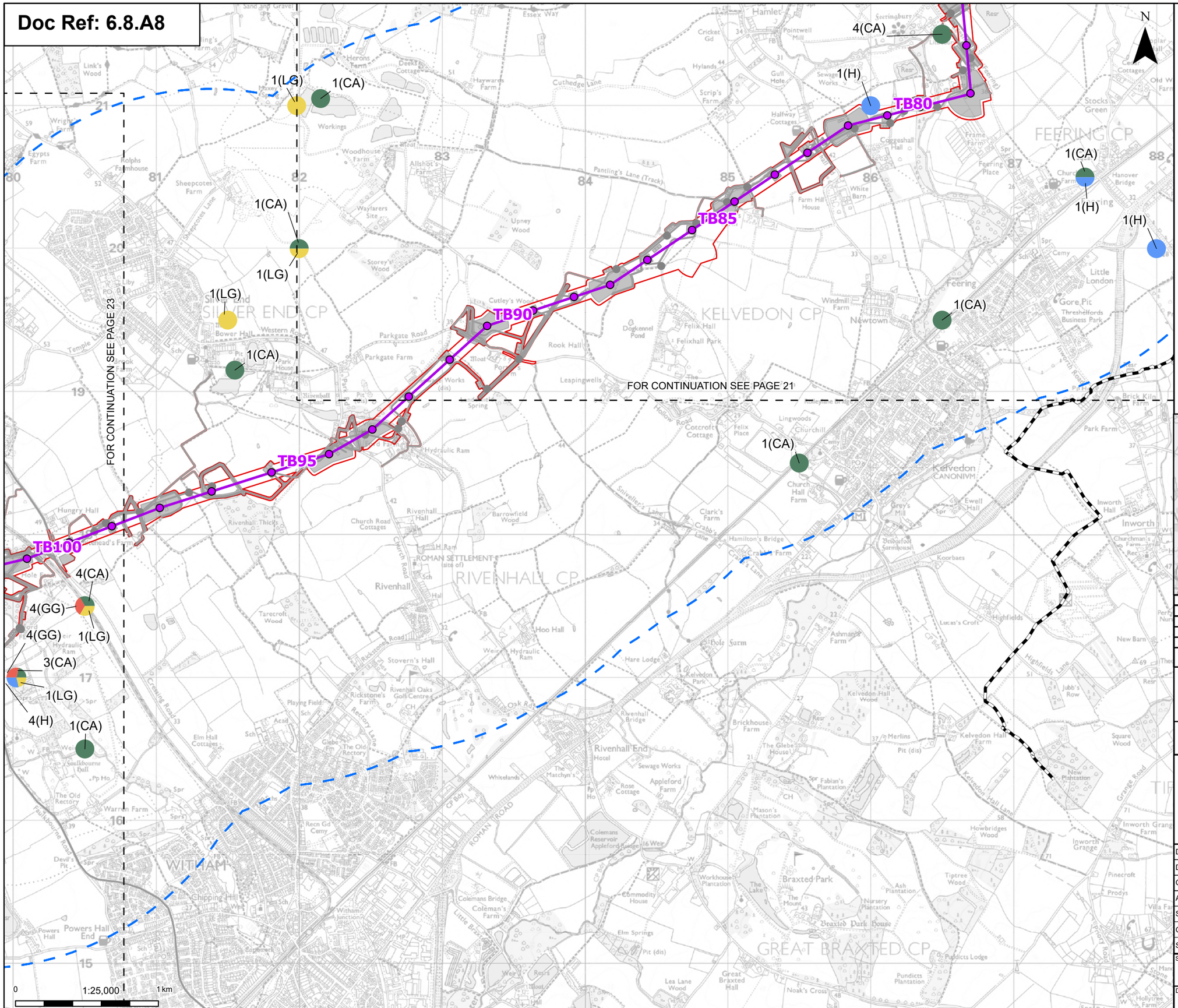

Order limits
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Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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Great crested grebe (GG)
Great white egret (HW)
Grey heron (H)
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PROJECT: Norwich to Tilbury

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

Title:

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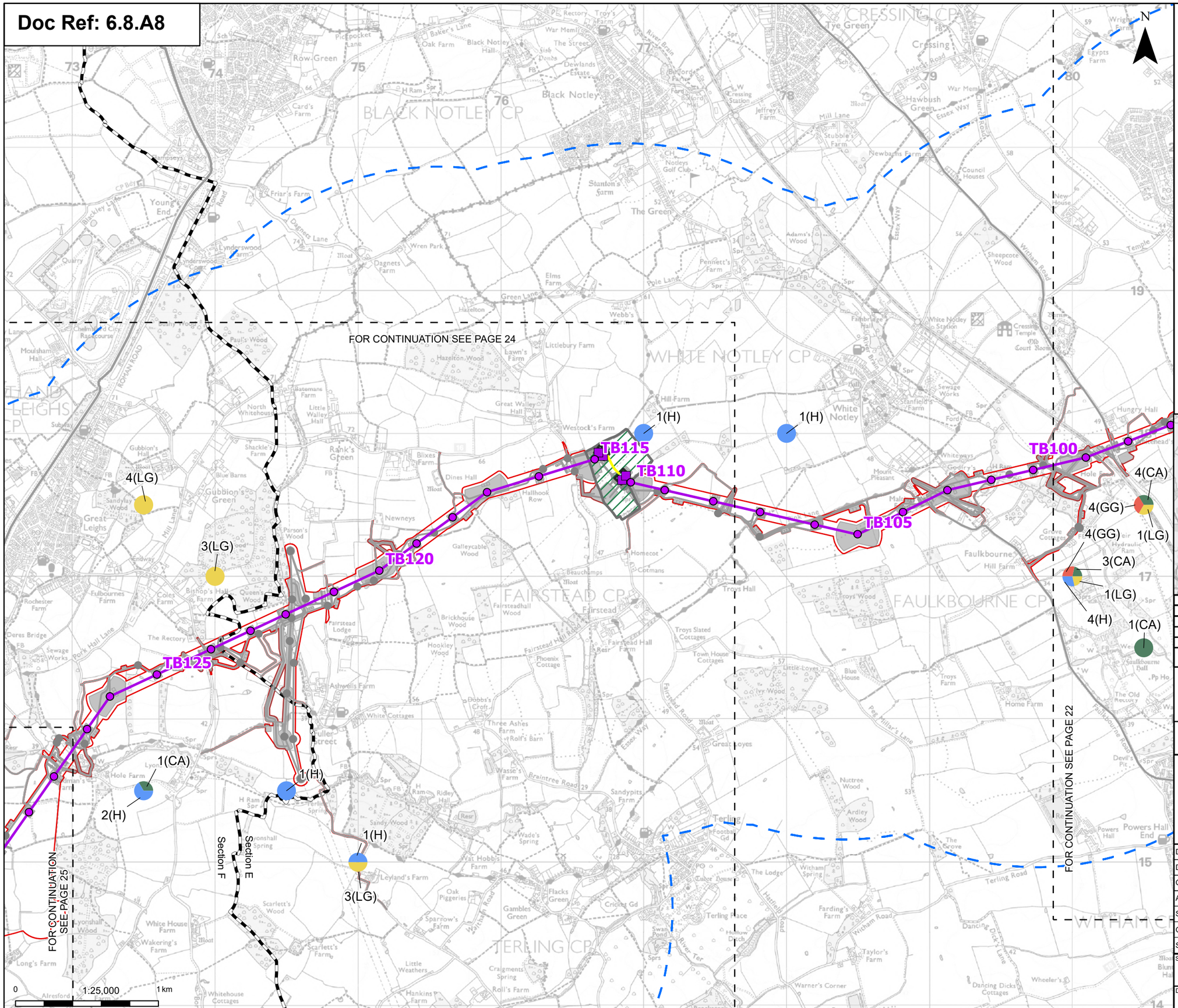

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Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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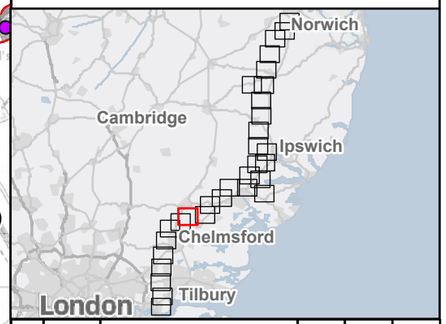

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

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PROJECT: Norwich to Tilbury

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

Title:

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

Suitability Description:
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Revision: A

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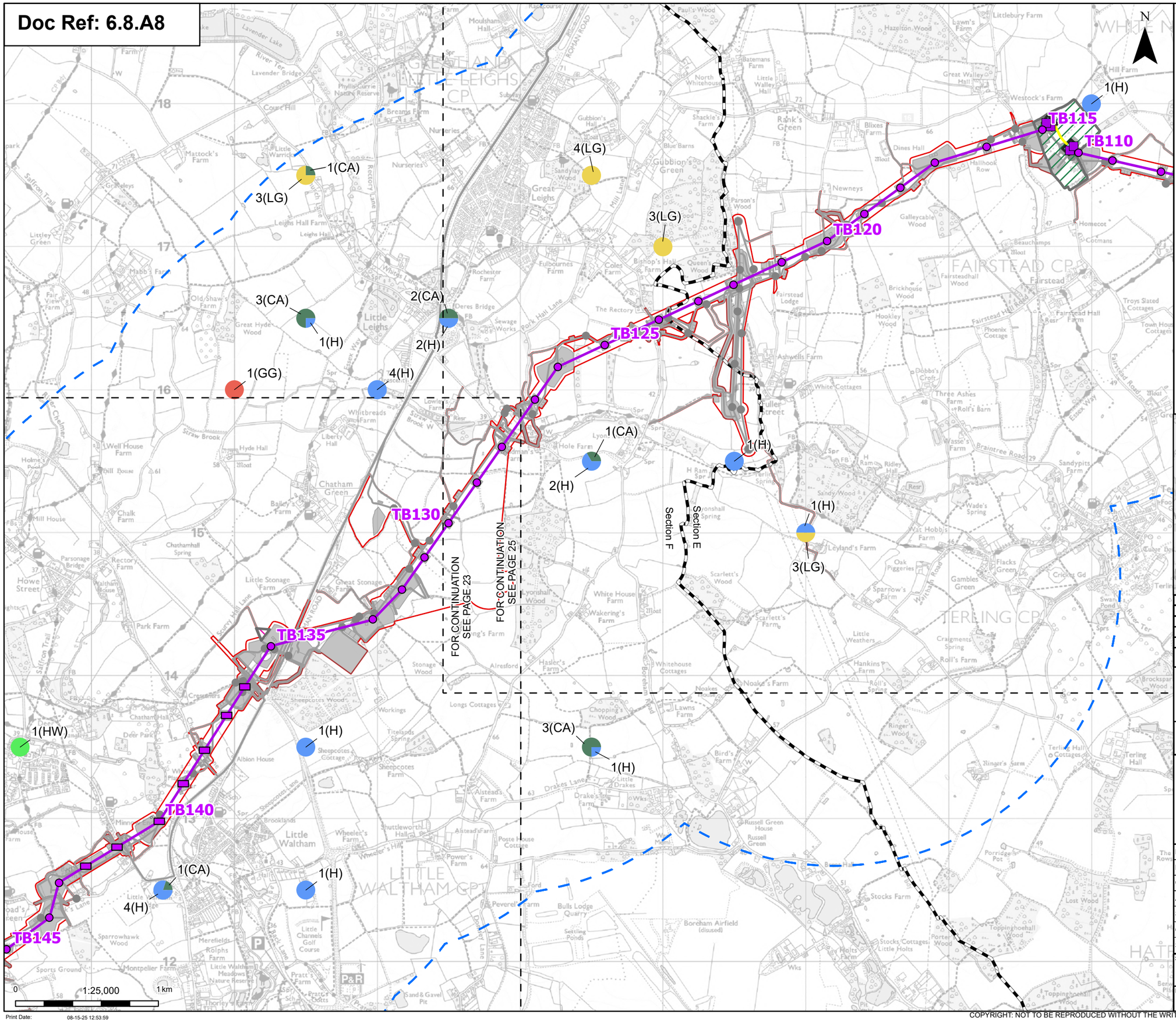

Order limits
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Project section line

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

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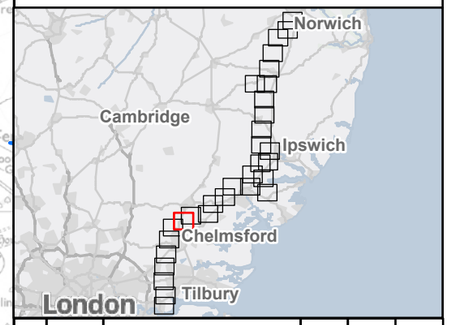

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A	Aug 2025	FOR DCO APPLICATION	SS	AF	KB

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PROJECT: Norwich to Tilbury

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

Title:

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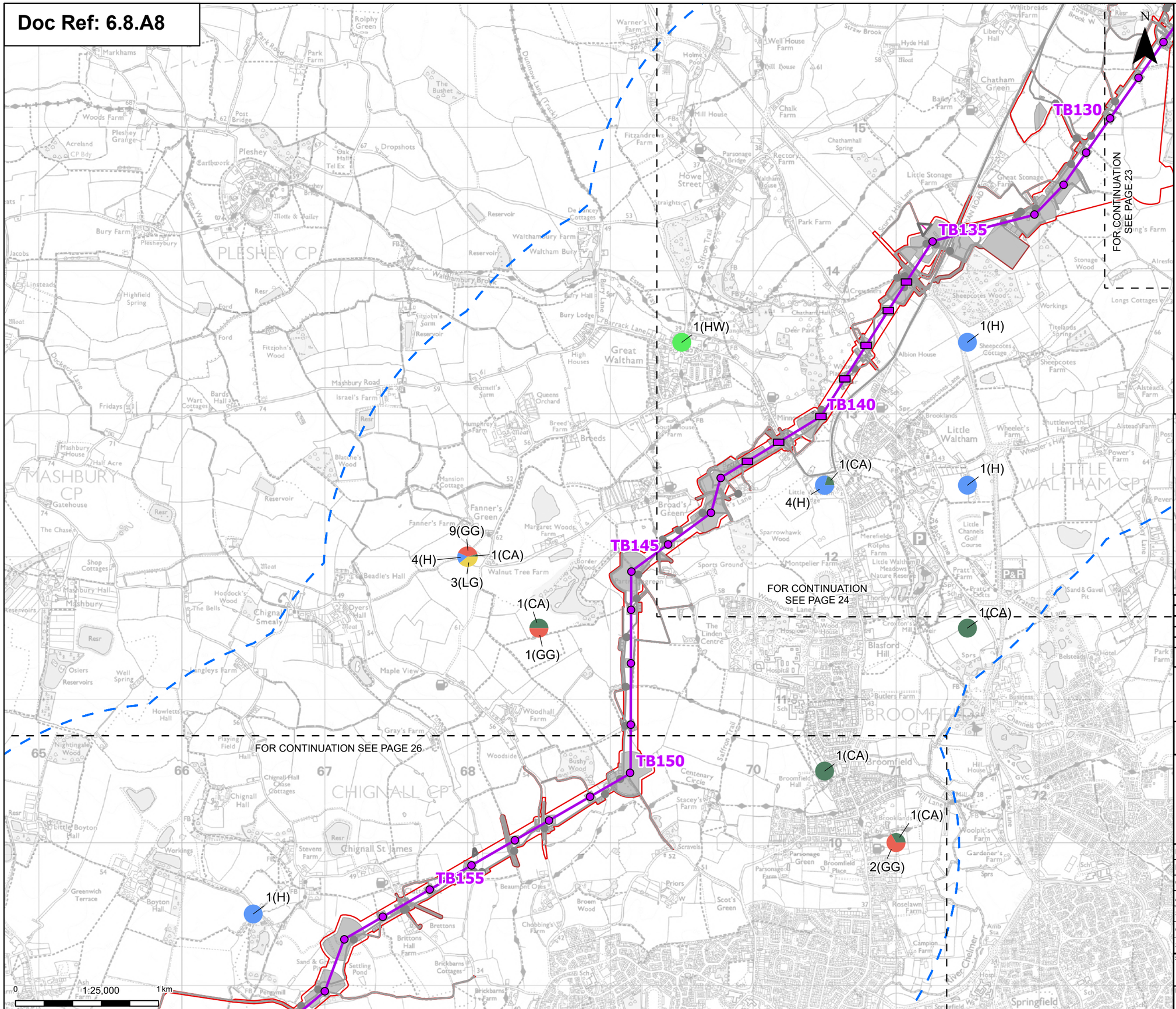

Order limits
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Proposed project design details

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

Discipline specific constraints

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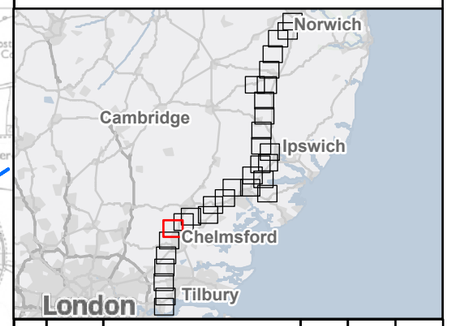

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PROJECT: Norwich to Tilbury

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

Title:

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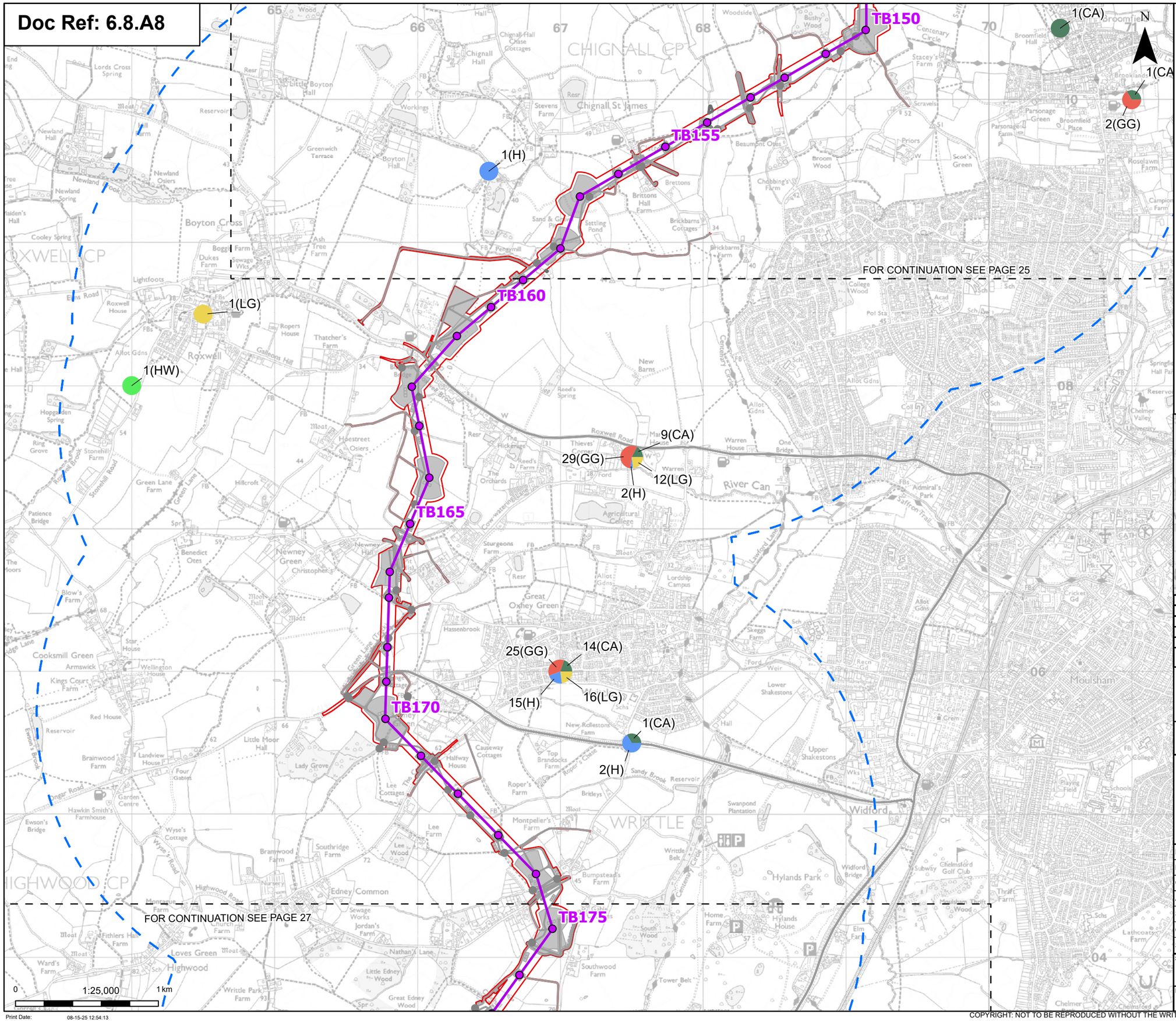

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Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
Page 26 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
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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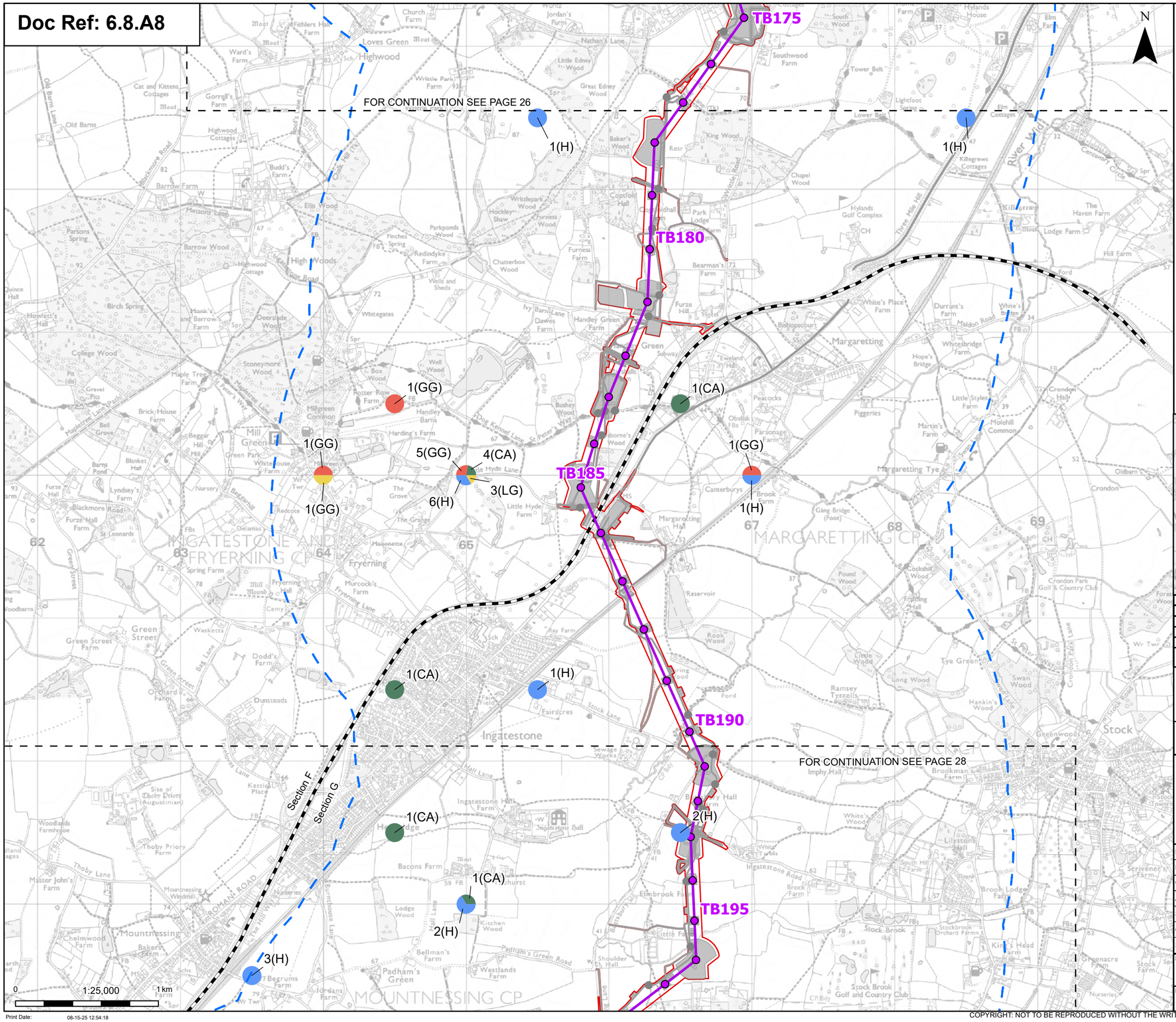

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
Page 27 of 31

Designed	R. Anderton	Date	21 Aug 25
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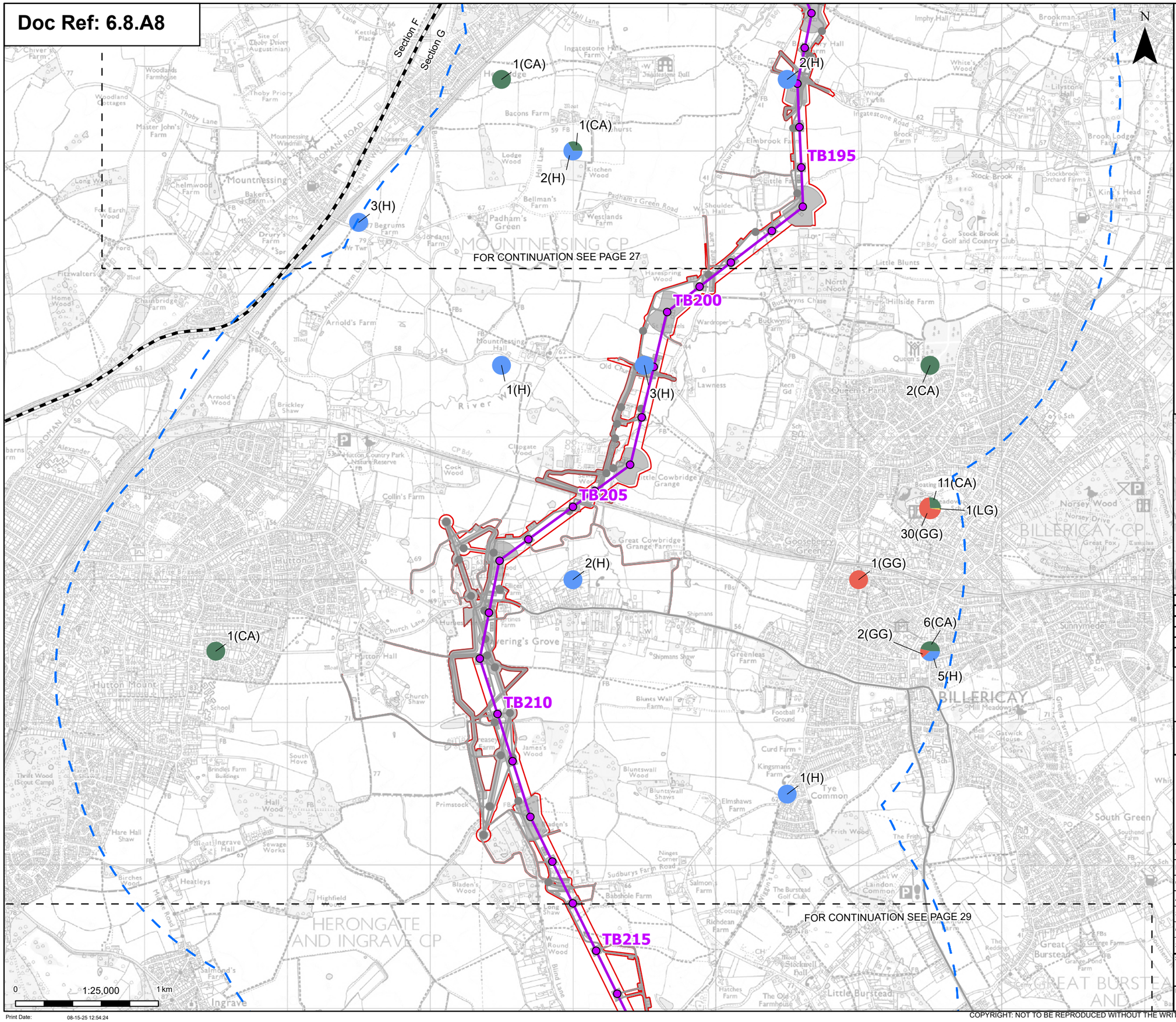

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
Page 28 of 31

Designed	R. Anderton	Date	21 Aug 25
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FOR CONTINUATION SEE PAGE 28

FOR CONTINUATION SEE PAGE 30

TB215

TB220

TB225

TB230

TB235

1(LG)

1(CA)

6(GG)

6(CA)

38(H)

3(GG)

7(H)

3(CA)

1(GG)

10(LG)

5(H)

3(GG)

1(H)

Section G

Section H

0 1:25,000 1 km

N

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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Great white egret (HW)
Grey heron (H)
Little grebe (LG)

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PROJECT: Norwich to Tilbury

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

Title:

Figure A8.8.16 - Ecology and Biodiversity
Collision Risk Secondary Species
Bitterns, Herons, Storks, Spoonbills & Egrets, Divers, Grebes & Seabirds (Desk Study Data 2013-2022)
Page 29 of 31

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
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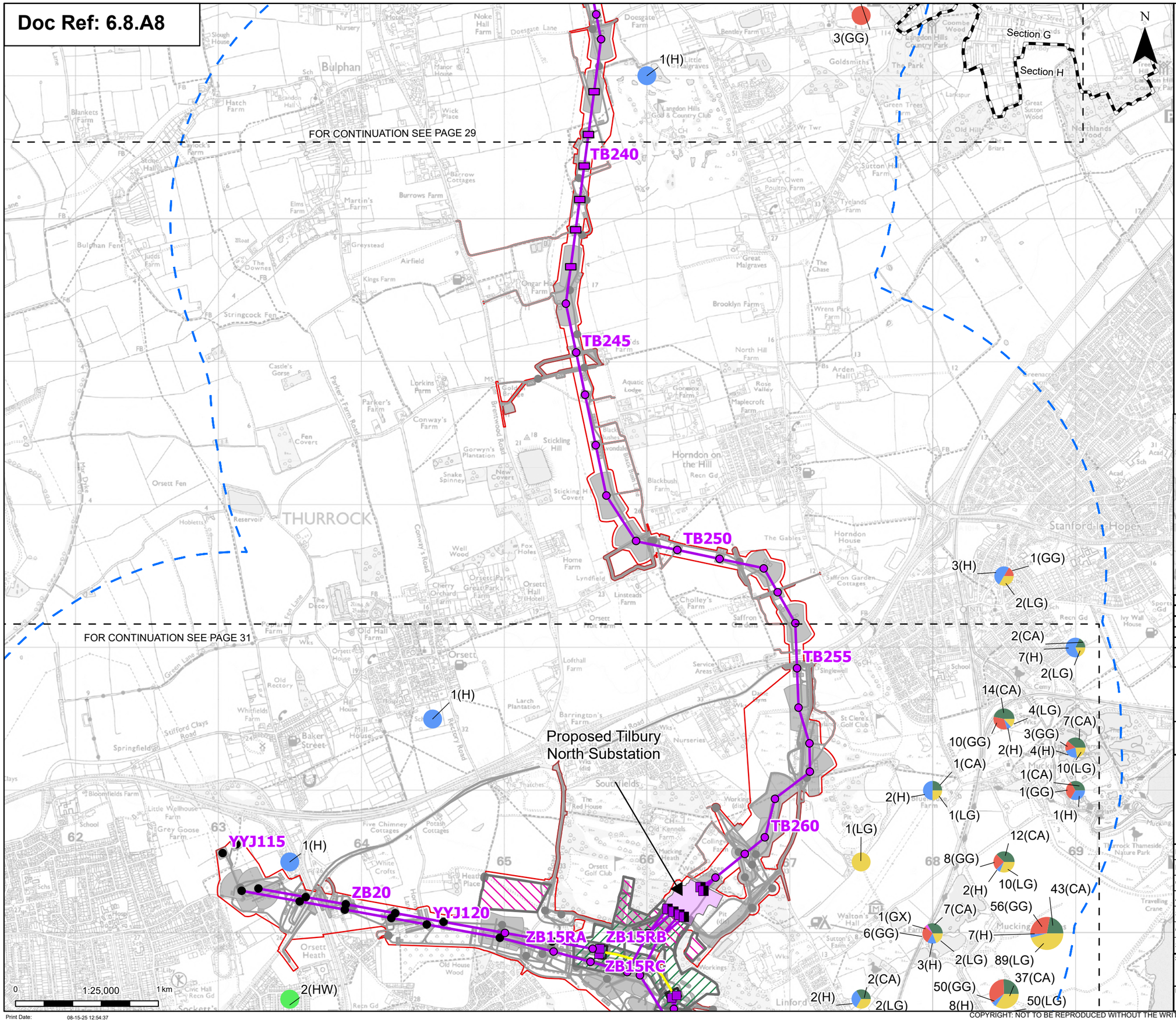

Order limits
Sheet index cutline
Project section line

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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PROJECT: Norwich to Tilbury

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

Title:

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

Designed	R. Anderton	Date	21 Aug 25
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Proposed Tilbury North Substation

TB255
TB260
YYJ115
ZB20
YYJ120
ZB15RA
ZB15RB
ZB15RC
YYJ125R
ZB10
YYJ130

1(H)
2(HW)
1(LG)
1(GG)
2(H)
1(CA)
2(H) 1(LG)
1(LG)
14(CA) 4(LG) 10(GG) 2(H)
7(CA) 3(GG) 4(H) 10(LG)
1(CA) 1(GG) 1(H)
12(CA) 8(GG) 2(H) 10(LG)
43(CA) 56(GG) 7(H) 89(LG)
1(GX) 6(GG) 7(CA) 3(H) 2(LG)
2(CA) 2(H) 2(LG)
37(CA) 50(GG) 8(H) 50(LG)
1(GX) 1(GG)
3(CA) 2(H) 2(LG)
21(GG) 2(H) 4(GX) 2(CA) 31(LG)
1(GG)
1(CA)
2(H)
1(CA) 2(HW) 1(H)

FOR CONTINUATION SEE PAGE 30

0 1:25,000 1 km

Print Date: 08-15-25 12:54:43

Order limits
Sheet index cutline

Proposed project design details

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

Discipline specific constraints

2 km Study Area

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

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

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

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PROJECT: Norwich to Tilbury

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

Title:

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

Designed	R. Anderton	Date	21 Aug 25
Drawn	S. Sarkar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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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-00329
Revision: A

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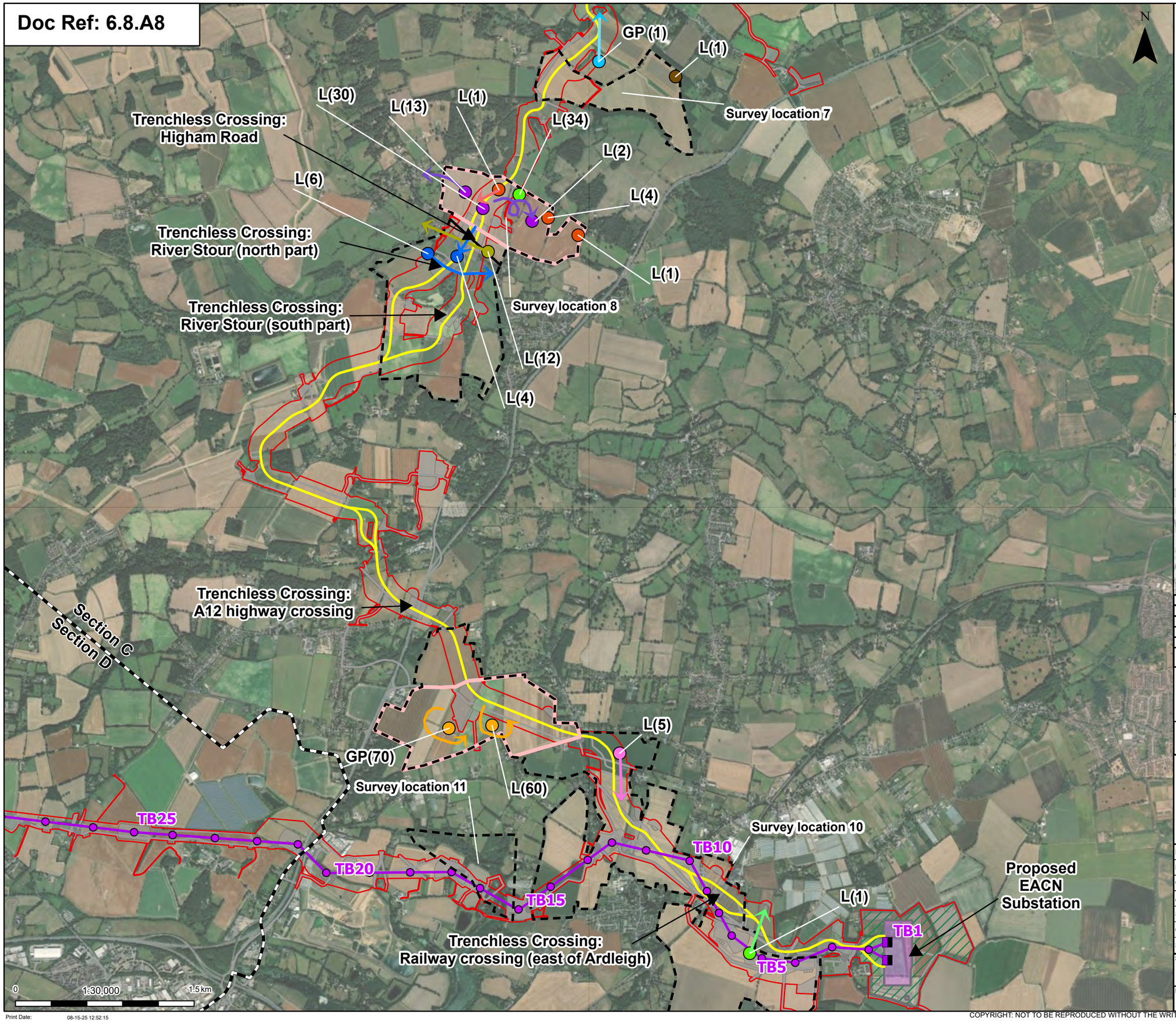

Order limits
Project section line

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 contraints

Stour and Orwell estuaries SPA ramsar assemblage species

Date

- 20/10/2022
- 23/11/2022
- 07/12/2022
- 15/12/2022
- 10/01/2023
- 24/01/2023
- 08/02/2023
- 15/02/2023
- 21/02/2023

- Direction of Flight
- Functionally Linked Land
- Survey Areas

GP - Golden Plover
L - Lapwing

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

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PROJECT: Norwich to Tilbury

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

Title:

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

Designed	R. Anderton	Date	21 Aug 25
Drawn	N. Banu	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description: Accepted as Concept Stage

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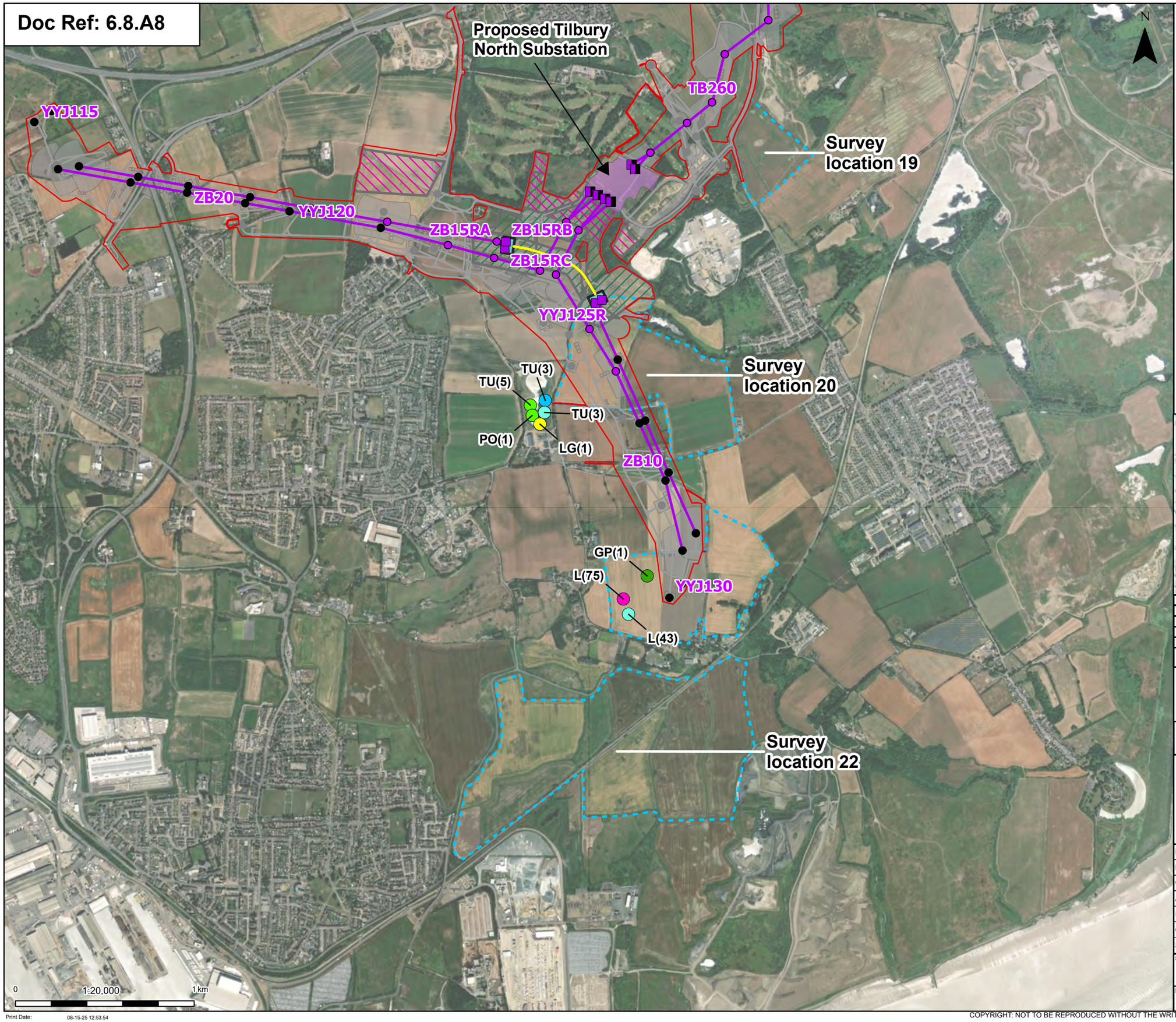

Order limits

Proposed project design details

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

Discipline specific constraints

- Survey Areas

Thames estuary and marshes SPA / Ramsar assembledge species

- 16/11/2023
- 08/12/2023
- 11/01/2024
- 23/01/2024
- 08/02/2024
- 20/02/2024

GP - Golden Plover
L - Lapwing
LG - Little Grebe
PO - Pochard
TU - Tufted Duck

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

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PROJECT: Norwich to Tilbury

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

Title:

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

Designed	R. Anderton	Date	21 Aug 25
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