

Norwich to Tilbury

Volume 6: Environmental Statement

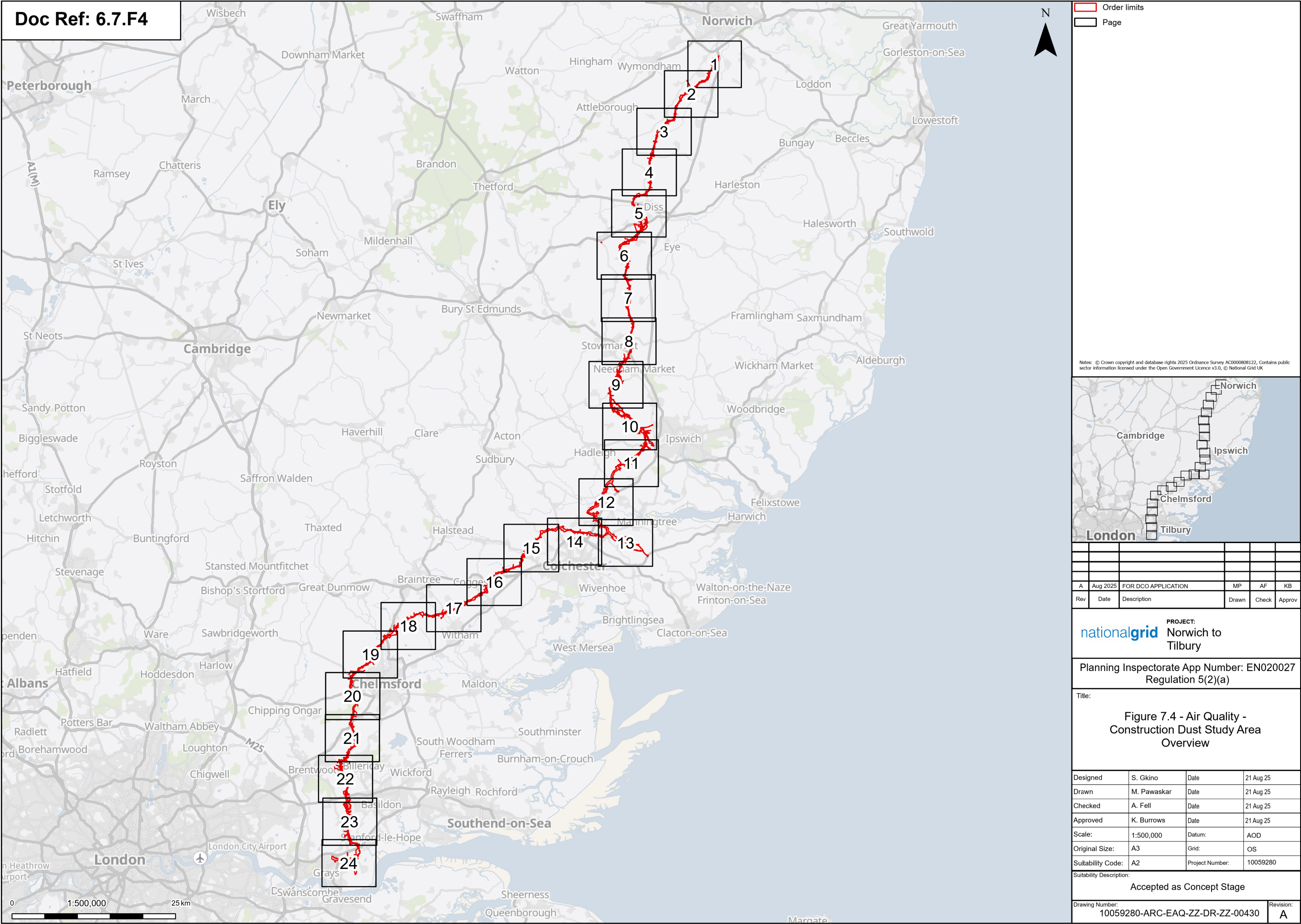
Document: 6.7.F4 Environmental Statement Figure 7.4 - Air Quality Construction Dust Study Area

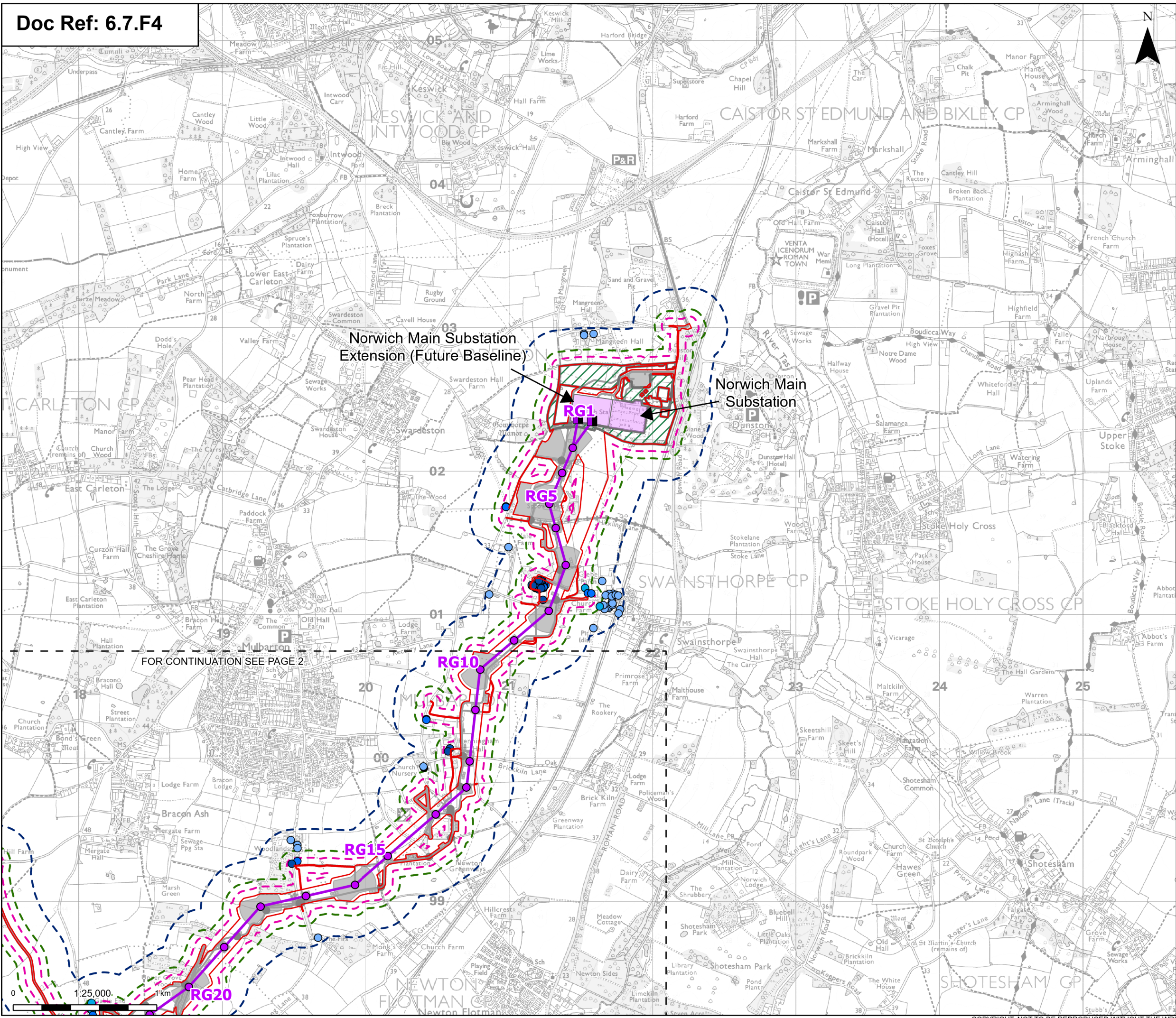
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

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





Order limits

Sheet index outline

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

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

Between 20 m to 50 m Study Area

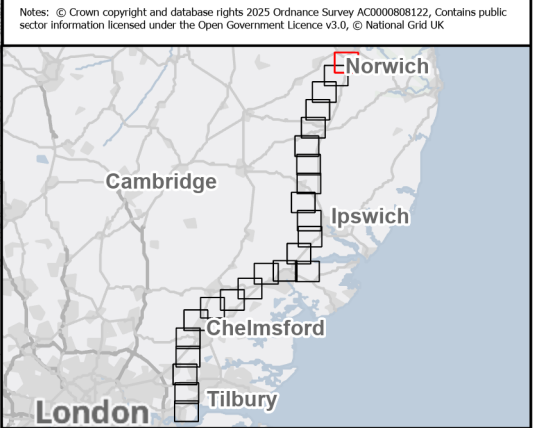
Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Note: The proposed overhead line 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).

Discipline specific constraints

50 m Study Area



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

PROJECT:

nationalgrid

Norwich to Tilbury

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

Title:

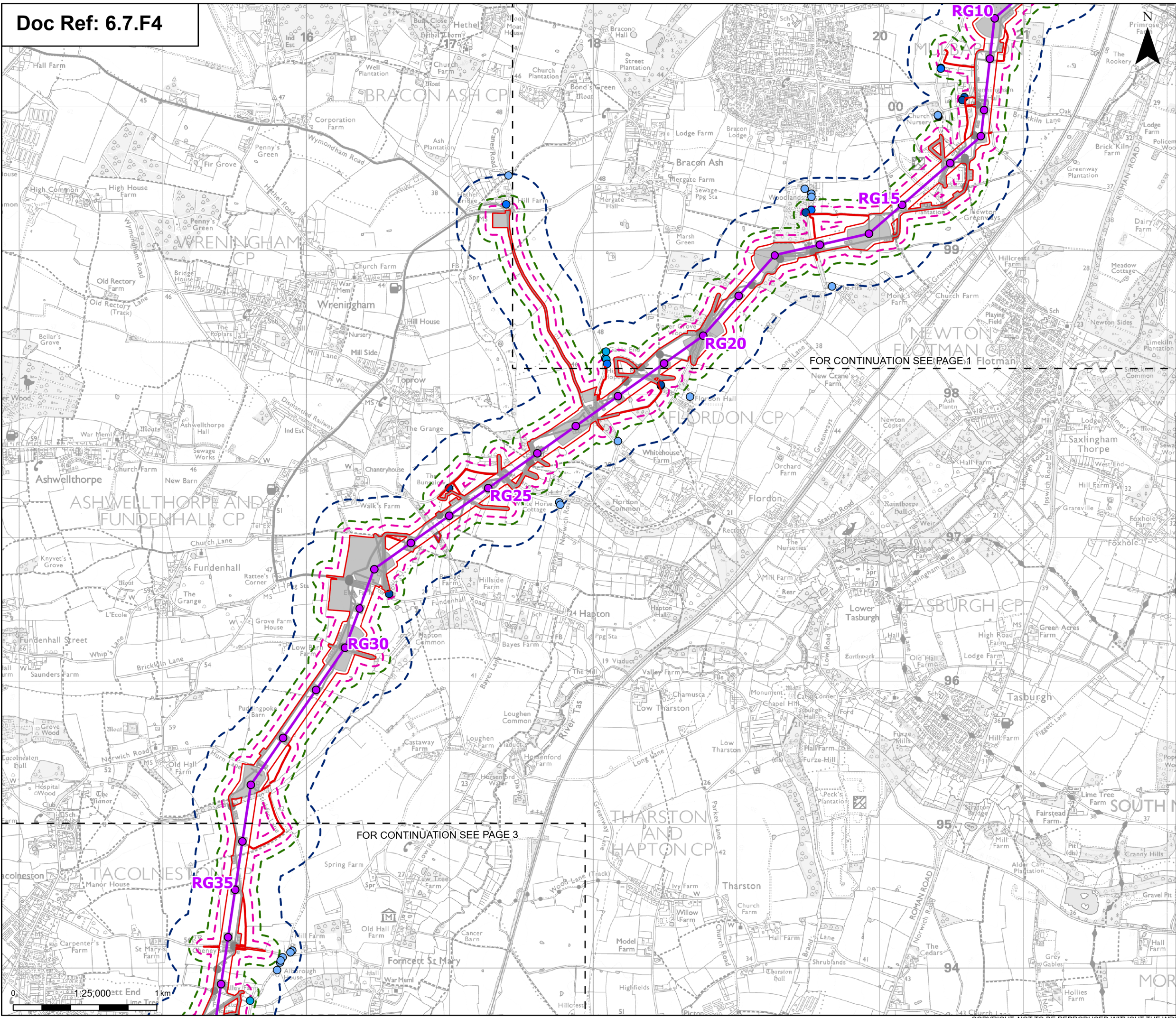
Figure 7.4 - Air Quality - Construction Dust Study Area
Page 1 of 24

Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	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

Accepted as Concept Stage

Drawing Number:
10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
A



Order limits

Sheet index outline

Proposed project design details

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

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

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

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nationalgrid Norwich to Tilbury

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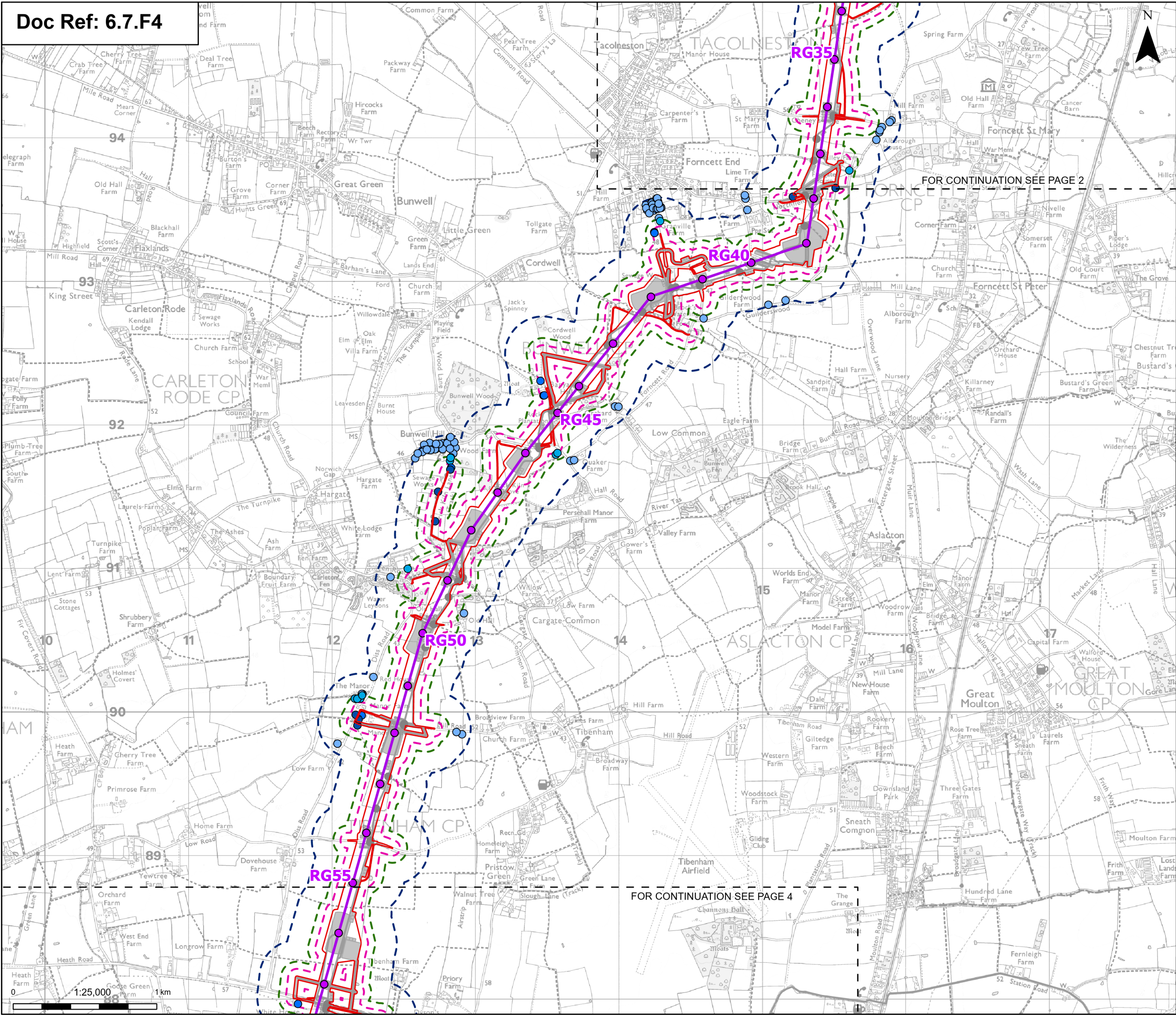
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Figure 7.4 - Air Quality - Construction Dust Study Area
Page 2 of 24

Designed	S. Gkino	Date	21 Aug 25
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Order limits

Sheet index outline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Discipline specific constraints

50 m Study Area

100 m Study Area

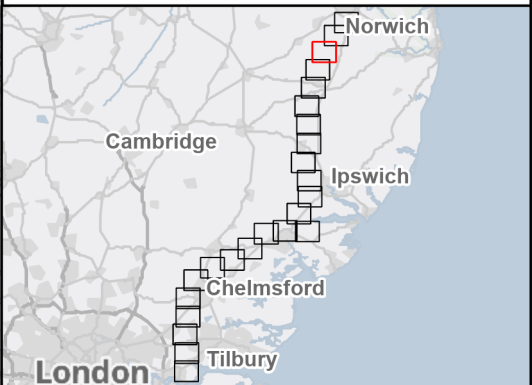
250 m Study Area

Sensitive receptors

Within 20 m Study Area

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

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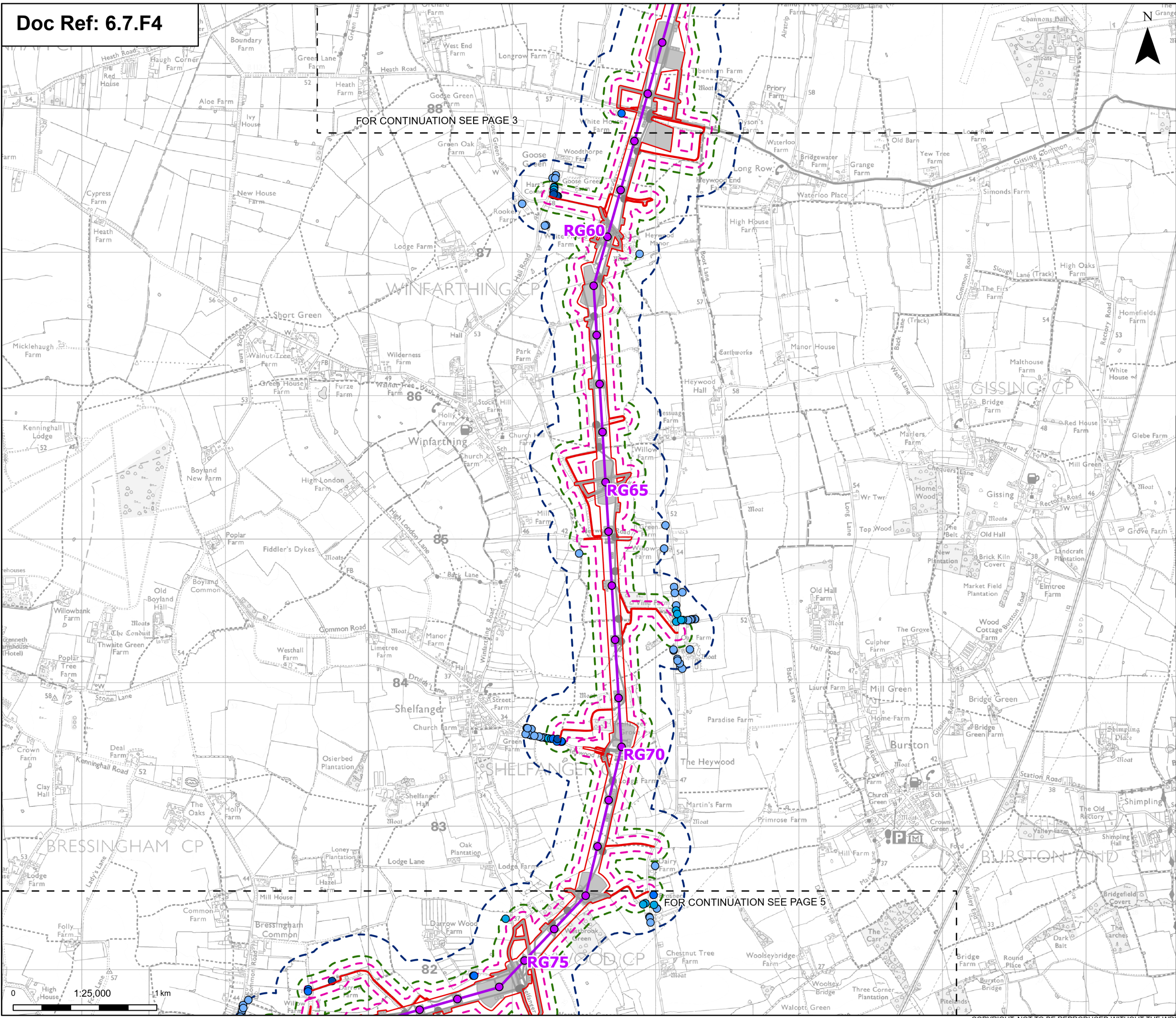
PROJECT:
nationalgrid Norwich to Tilbury

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

Title:

Figure 7.4 - Air Quality -
Construction Dust Study Area
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Designed	S. Gkino	Date	21 Aug 25
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Drawing Number:	10059280-ARC-EAQ-ZZ-DR-ZZ-00430		Revision: A



Order limits

Sheet index cutline

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

50 m Study Area

100 m Study Area

250 m Study Area

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

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

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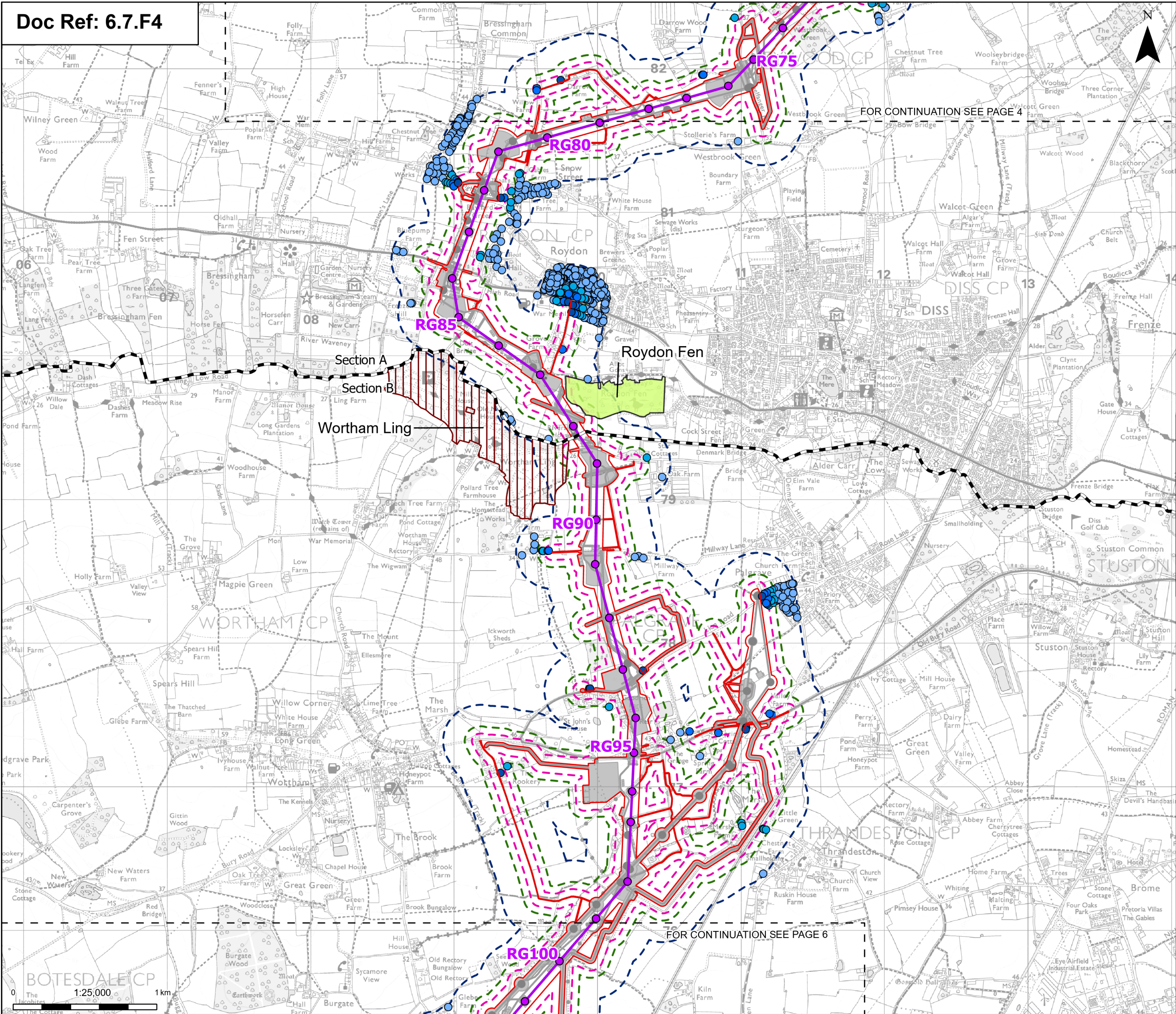
nationalgrid Norwich to Tilbury

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Regulation 5(2)(a)

Title:

Figure 7.4 - Air Quality - Construction Dust Study Area
Page 4 of 24

Designed	S. Gkino	Date	21 Aug 25
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Suitability Description:			
Accepted as Concept Stage			
Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430			Revision: A



Order limits

Sheet index cutline

Project section line

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

50 m Study Area

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Ecological sites within 50 m

Sites of special scientific interest (SSSI)

Local nature reserves (LNR)

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).

Discipline specific constraints

50 m Study Area

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

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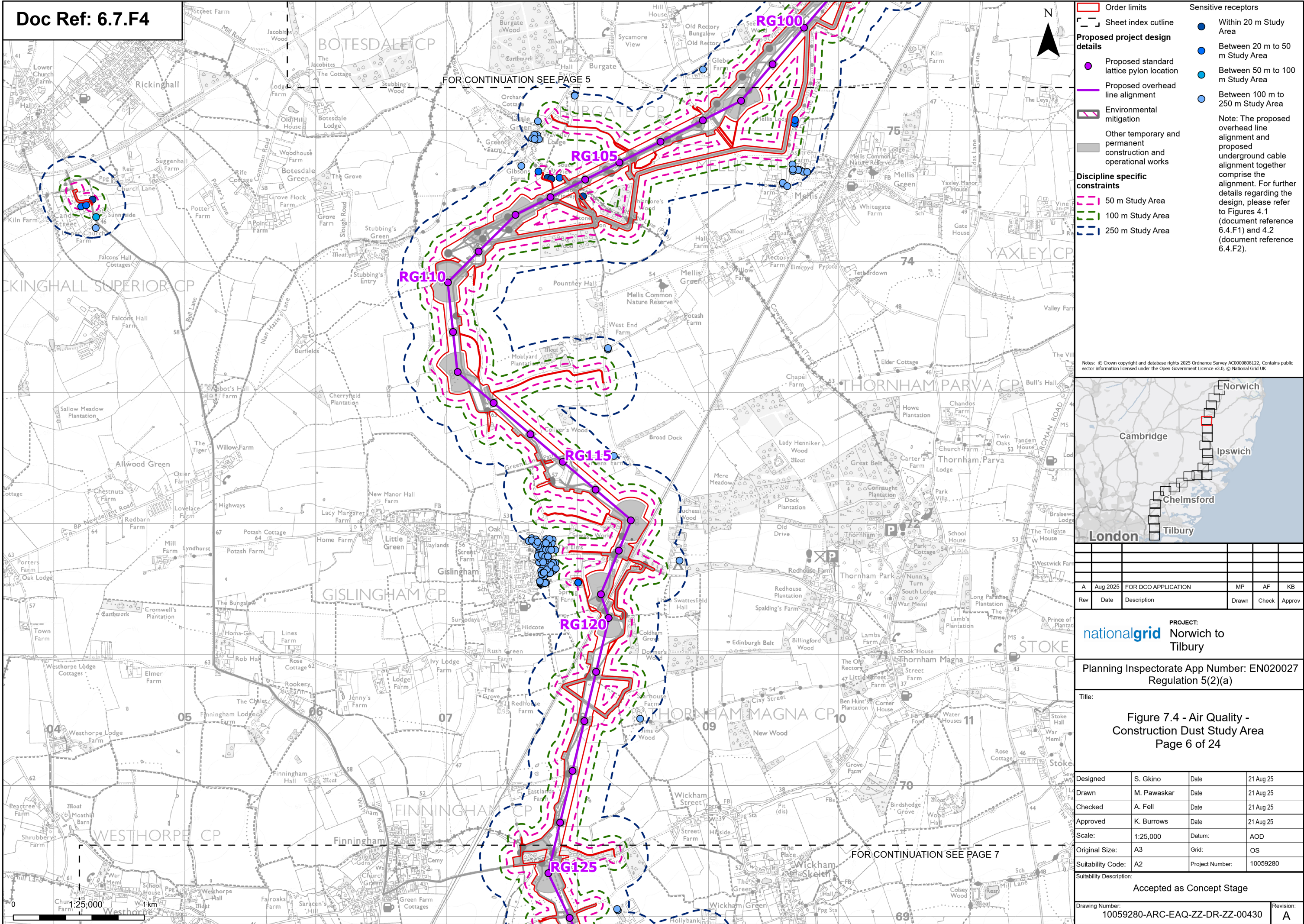
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Figure 7.4 - Air Quality -
Construction Dust Study Area
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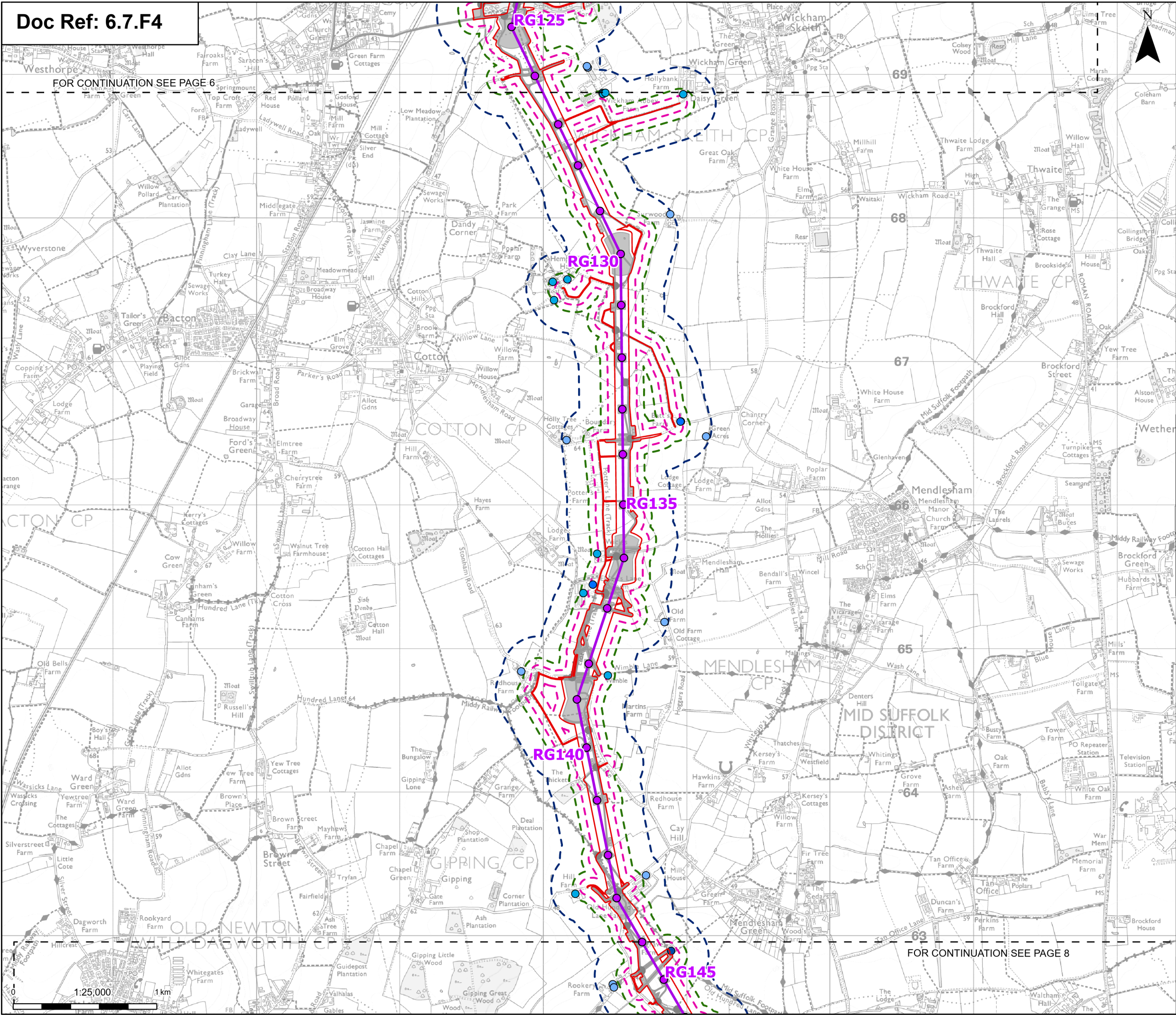
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:	Accepted as Concept Stage		

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FOR CONTINUATION SEE PAGE 6



Order limits

Sheet index cutline

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

●

Between 20 m to 50 m Study Area

●

Between 50 m to 100 m Study Area

●

Between 100 m to 250 m Study Area

Discipline specific constraints

50 m Study Area

100 m Study Area

250 m Study Area

●

Sensitive receptors

●

Within 20 m Study Area

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

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nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure 7.4 - Air Quality - Construction Dust Study Area
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Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:	Accepted as Concept Stage		

Drawing Number:	10059280-ARC-EAQ-ZZ-DR-ZZ-00430	Revision:	A
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FOR CONTINUATION SEE PAGE 7

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Order limits

Sheet index outline

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

50 m Study Area

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

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

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Title:

Figure 7.4 - Air Quality -
Construction Dust Study Area
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Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
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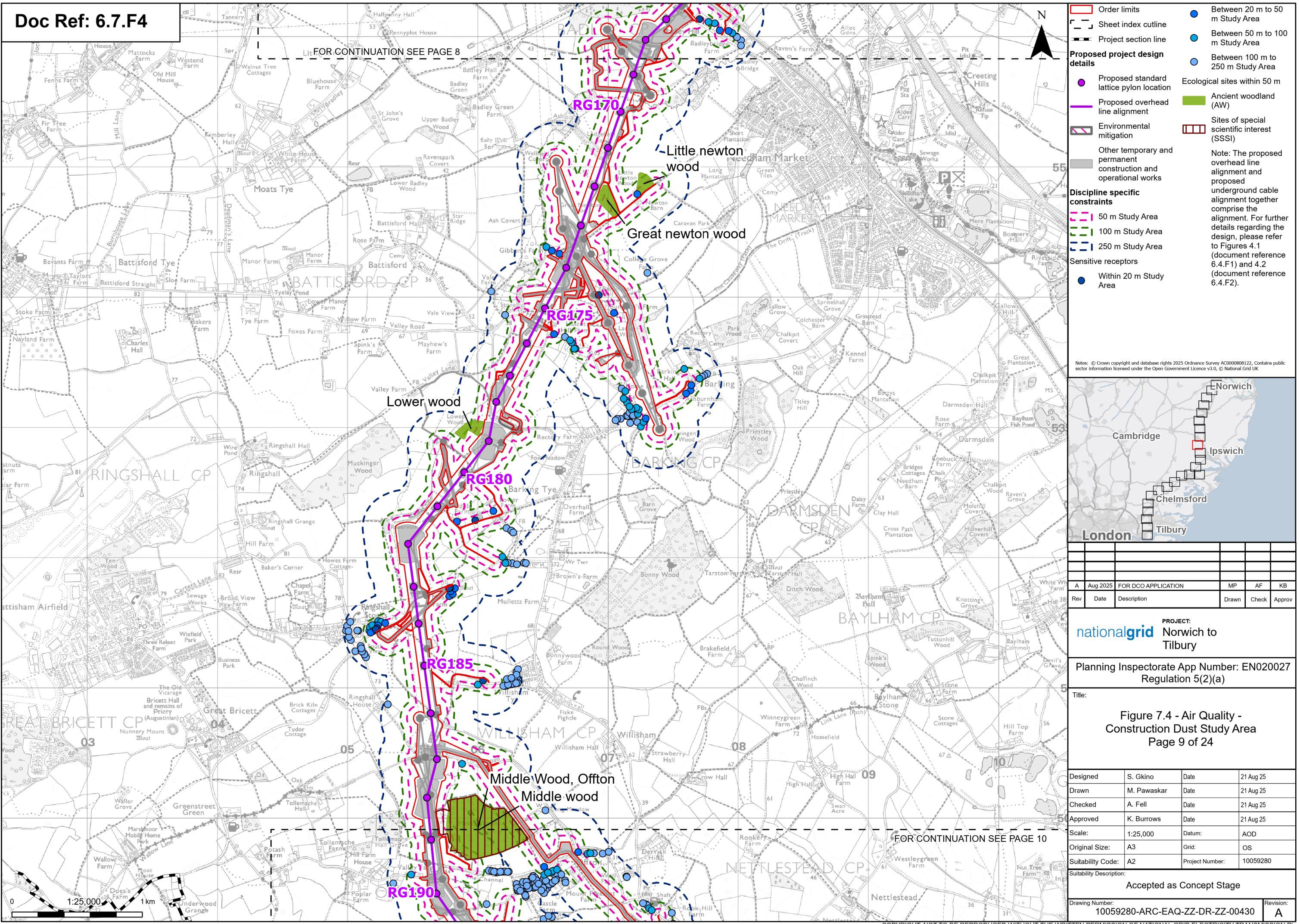
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FOR CONTINUATION SEE PAGE 10



Order limits

Sheet index cutline

Project section line

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

50 m Study Area

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Ecological sites within 50 m

Ancient woodland (AW)

Sites of special scientific interest (SSSI)

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

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nationalgrid Norwich to Tilbury

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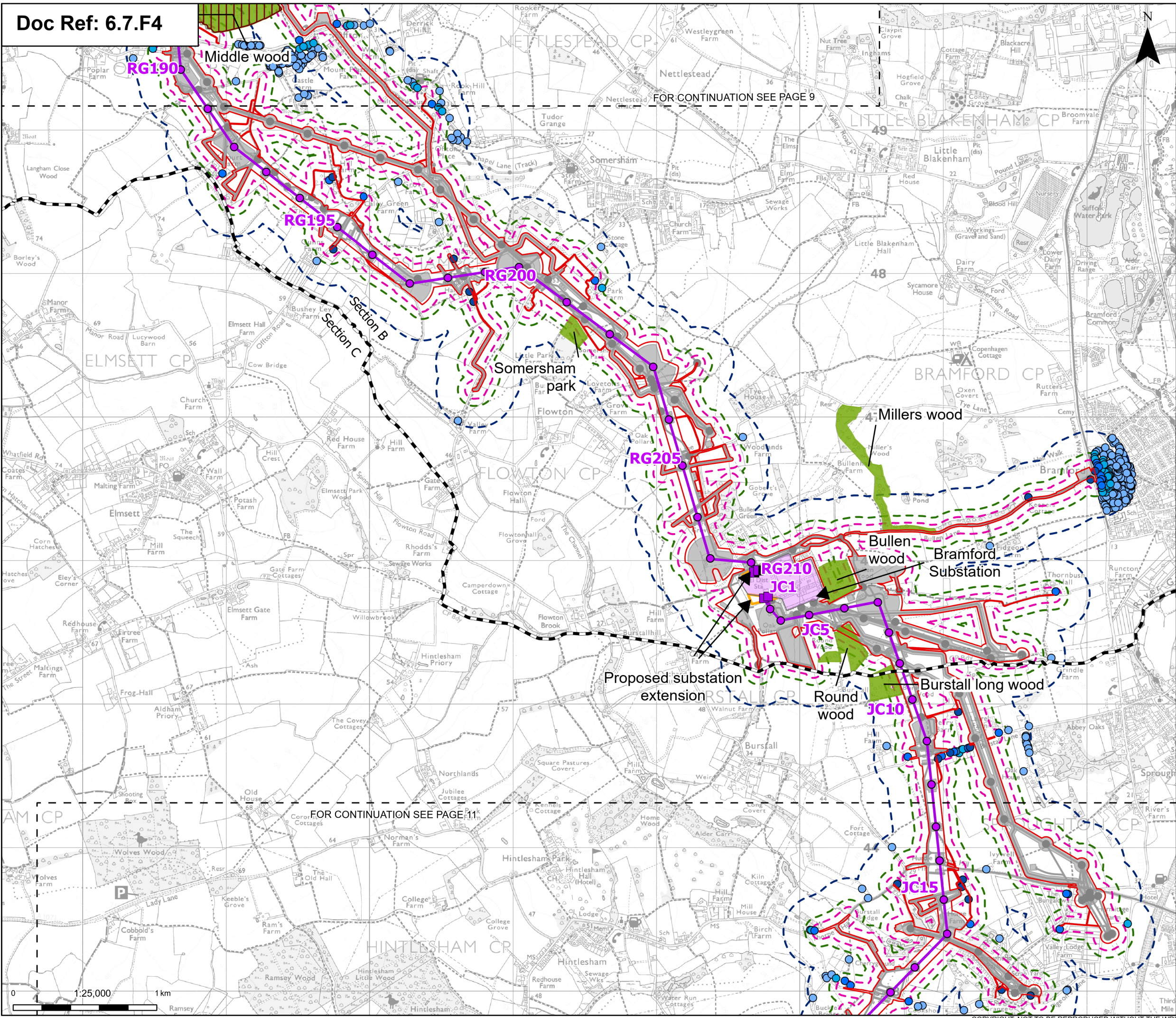
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Figure 7.4 - Air Quality -
Construction Dust Study Area
Page 9 of 24

Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
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Suitability Description:	Accepted as Concept Stage		

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Order limits

Sheet index cutline

Project section line

Proposed full line tension gantry

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Bramford Substation

Bramford Substation Extension

Other temporary and permanent construction and operational works

50 m Study Area

100 m Study Area

250 m Study Area

Discipline specific constraints

Sensitive receptors

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Ecological sites within 50 m

Ancient woodland (AW)

Sites of special scientific interest (SSSI)

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).



A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB
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PROJECT:

nationalgrid

Norwich to Tilbury

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Title:

Figure 7.4 - Air Quality - Construction Dust Study Area
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Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
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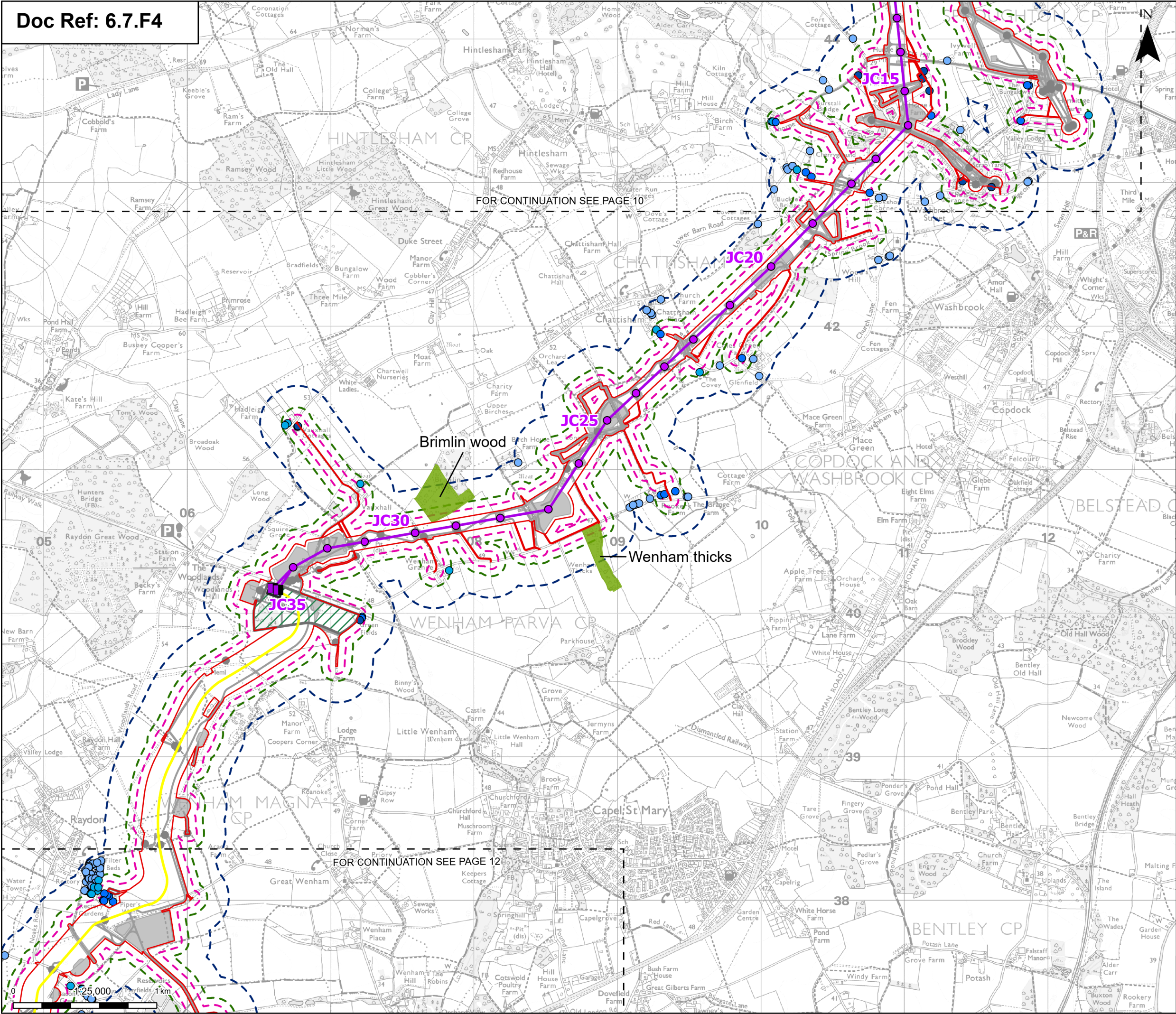
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Order limits

- Order limits
- Sheet index cutline

Proposed project design details

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

Discipline specific constraints

- 50 m Study Area

Sensitive receptors

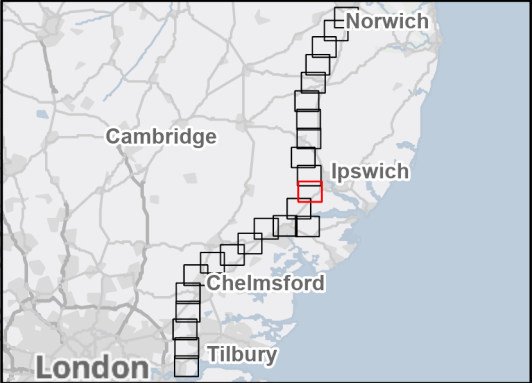
- 100 m Study Area
- 250 m Study Area
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)

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

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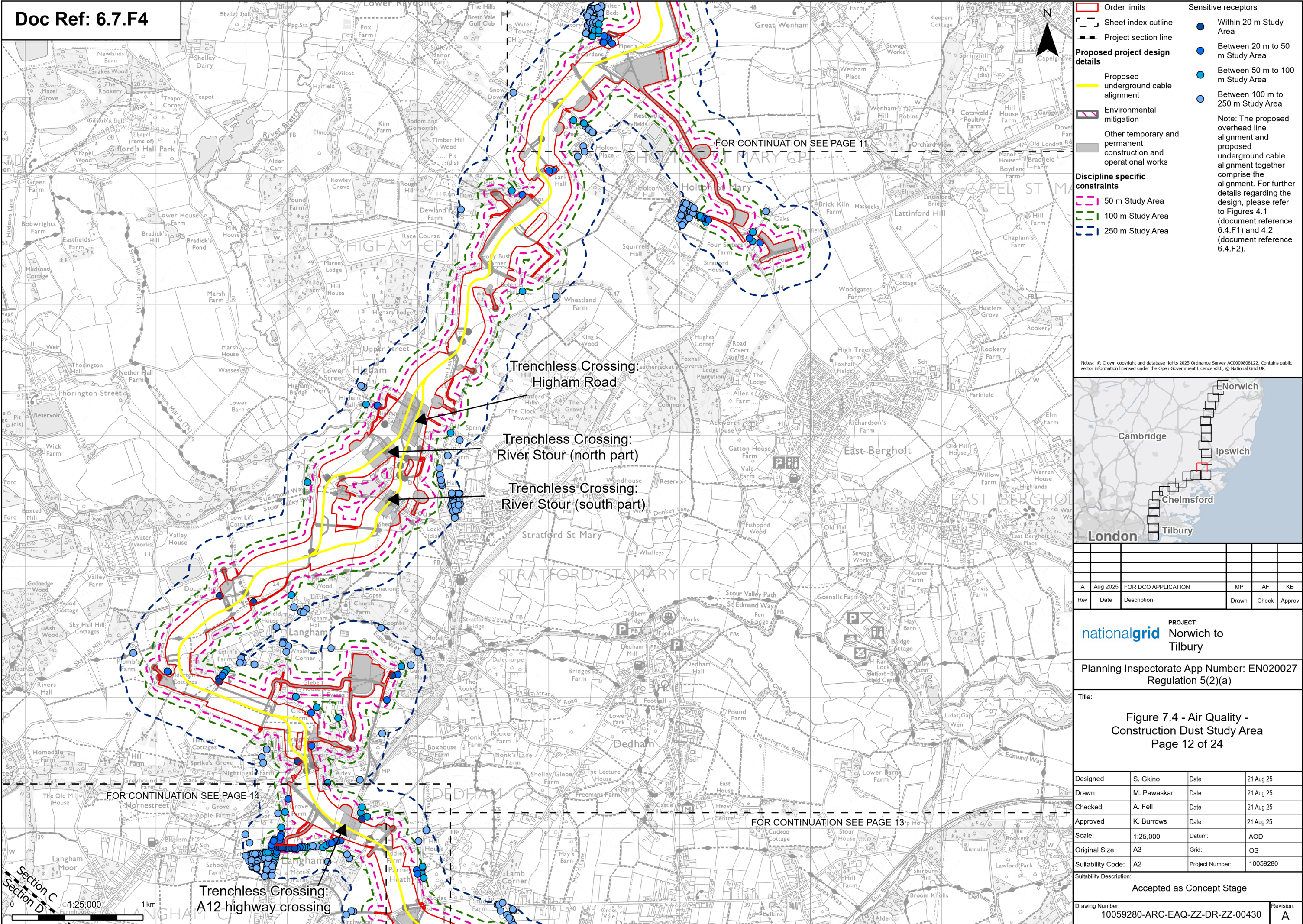
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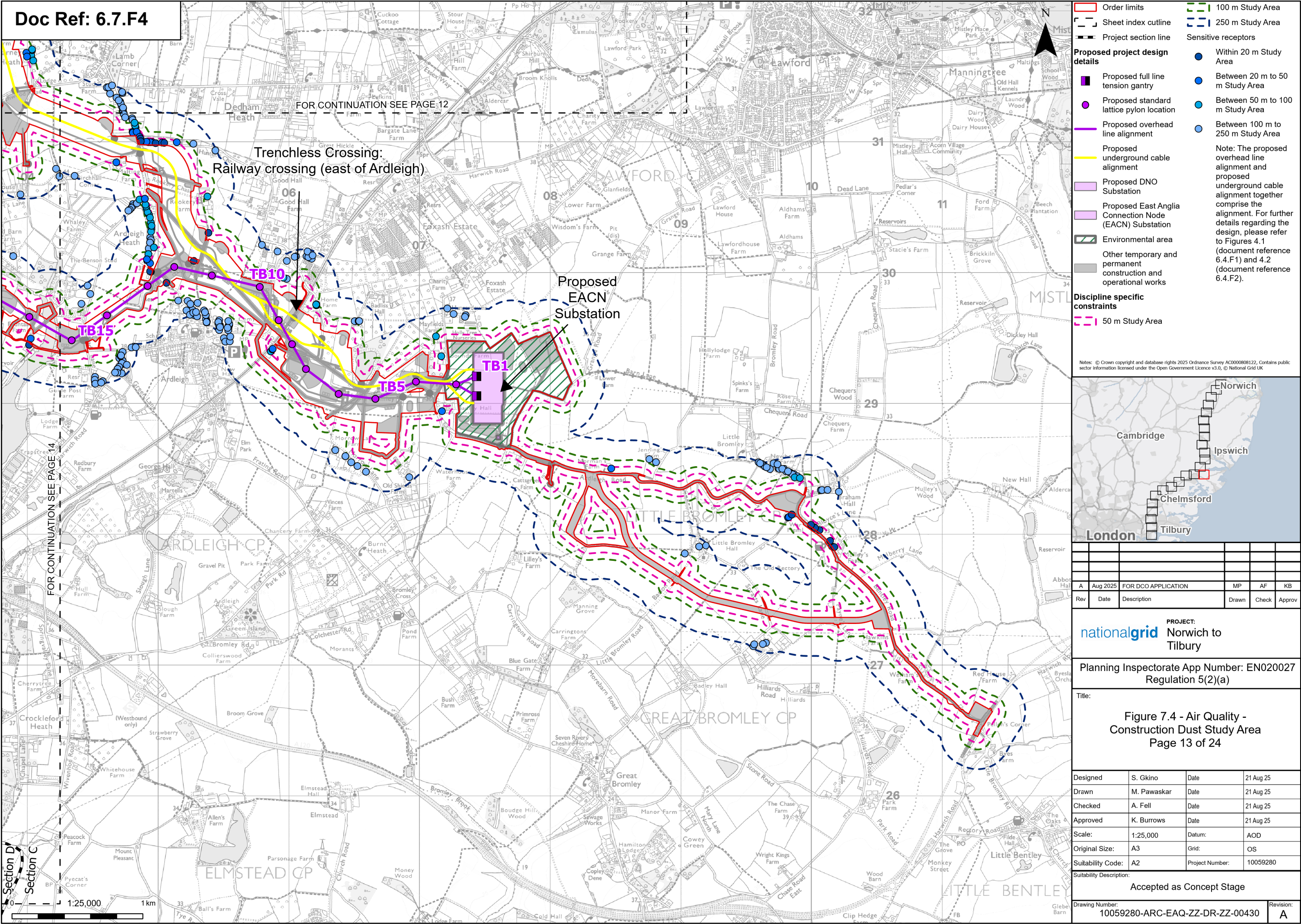
Figure 7.4 - Air Quality -
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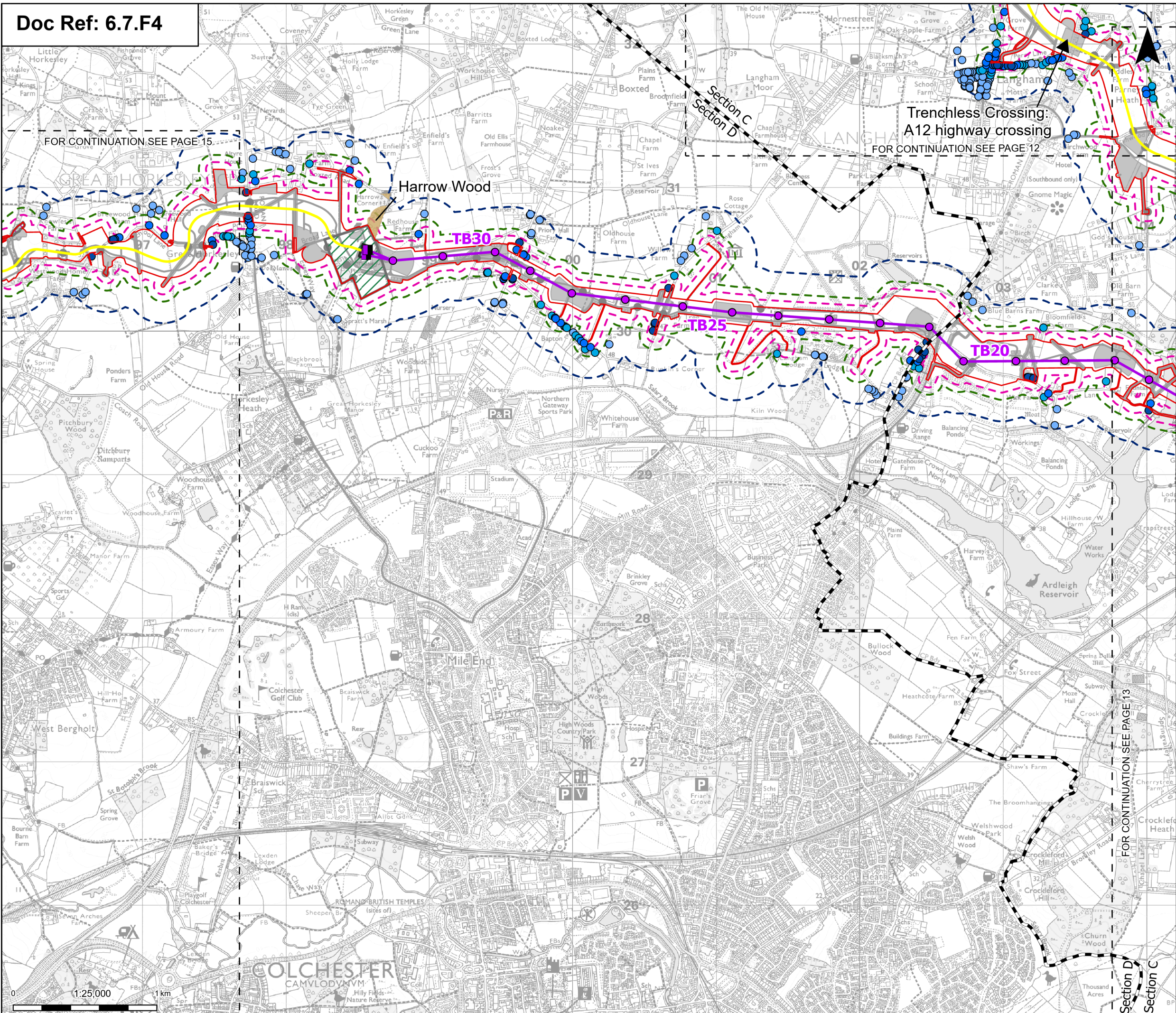
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Suitability Description:			

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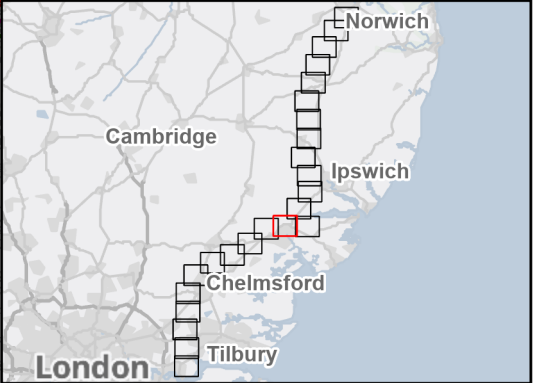




Proposed project design details

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- Project section line
- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works
- 50 m Study Area
- 100 m Study Area
- 250 m Study Area
- Sensitive receptors
 - Within 20 m Study Area
 - Between 20 m to 50 m Study Area
 - Between 50 m to 100 m Study Area
 - Between 100 m to 250 m Study Area
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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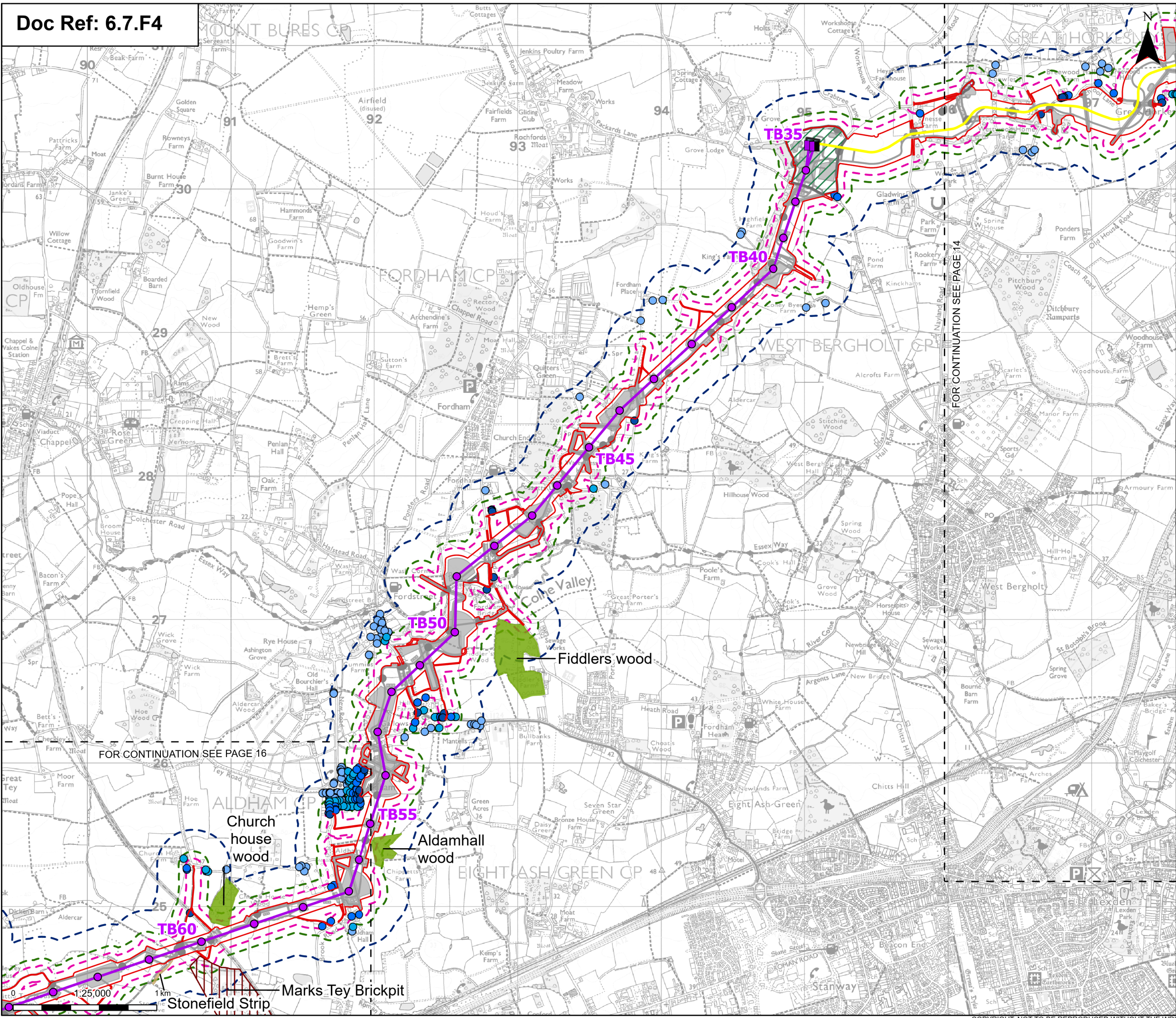
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Figure 7.4 - Air Quality - Construction Dust Study Area
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Revision:
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Order limits

Sheet index outline

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

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory
- Sites of special scientific interest (SSSI)

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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Ipswich

Chelmsford

Tilbury

Norwich

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PROJECT:

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Figure 7.4 - Air Quality - Construction Dust Study Area

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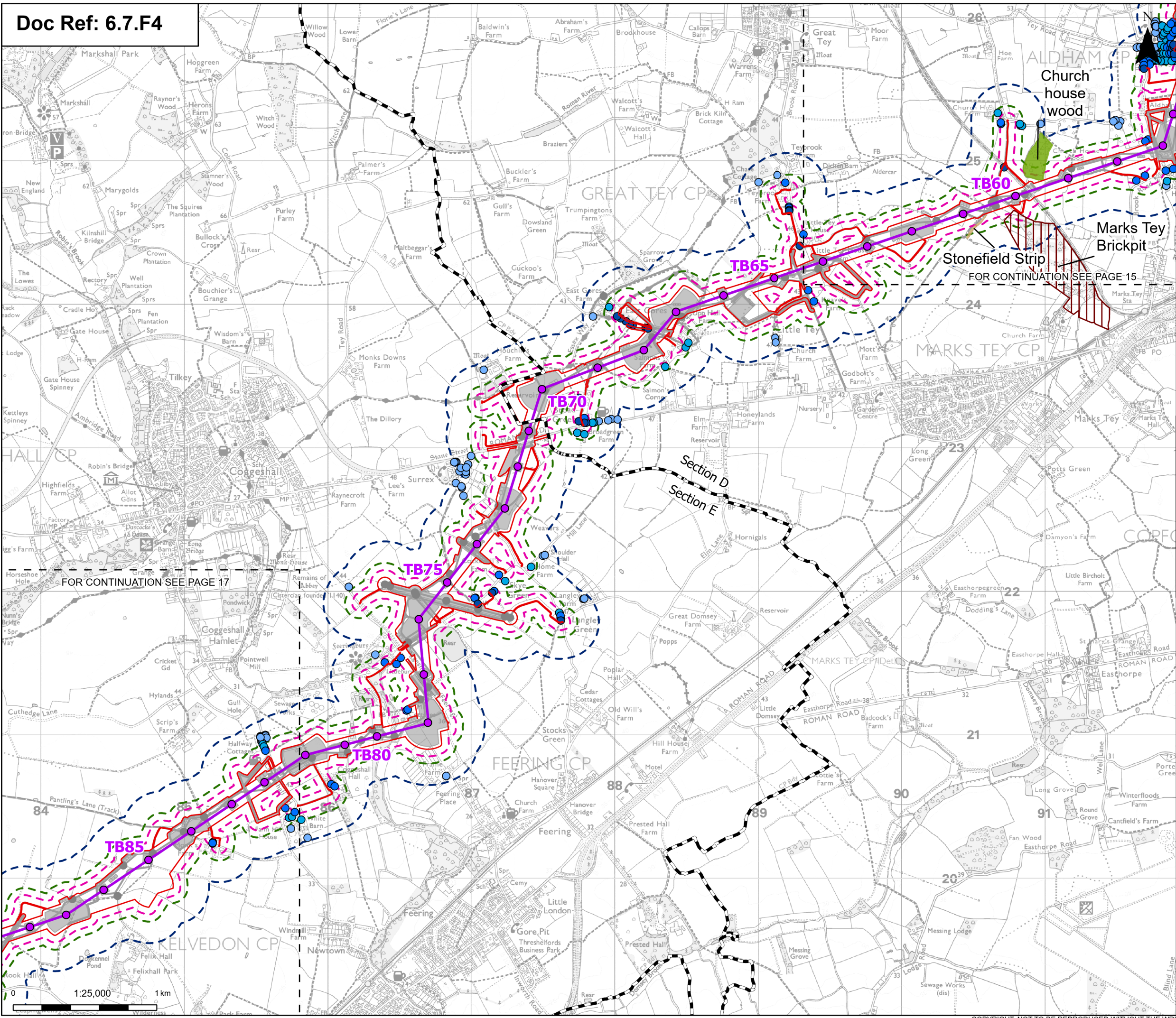
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Proposed project design details

- Order limits
- Sheet index cutline
- Project section line
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

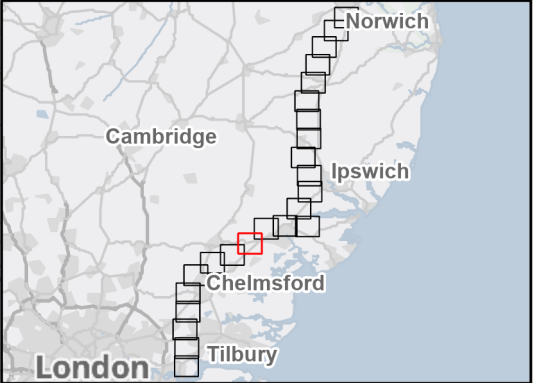
- Within 20 m Study Area
- Between 20 m to 50 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory
- Sites of special scientific interest (SSSI)

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

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A	Aug 2025	FOR DCO APPLICATION	MP	AF	KB

PROJECT:
nationalgrid Norwich to Tilbury

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

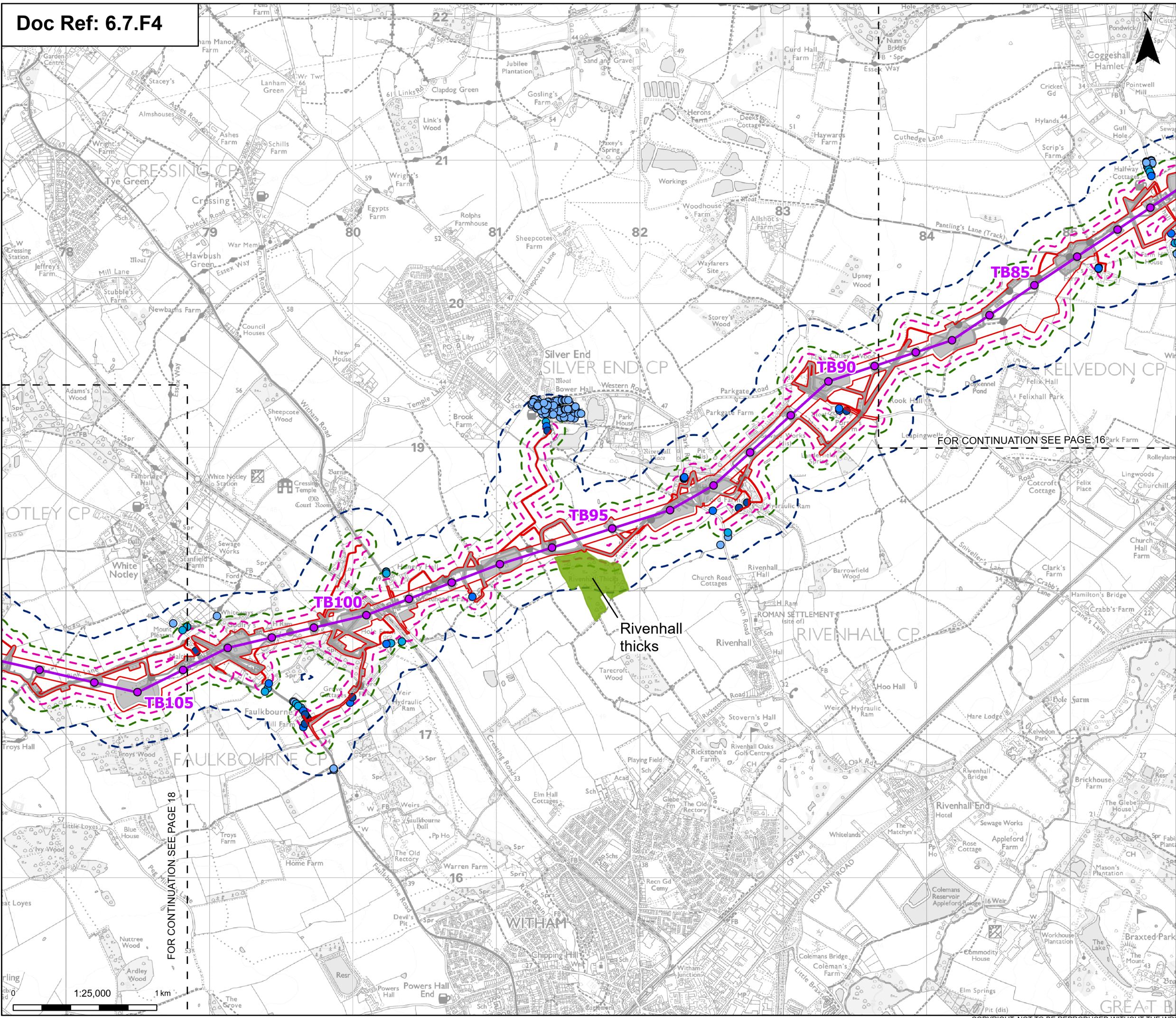
Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
Page 16 of 24

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

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
A



Order limits

- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Proposed project design details

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

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

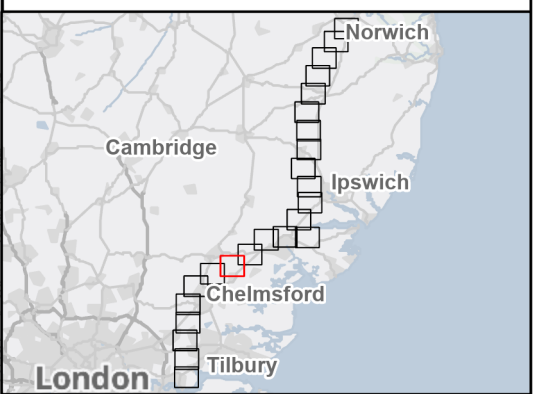
- Within 20 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)

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

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PROJECT:
nationalgrid Norwich to Tilbury

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

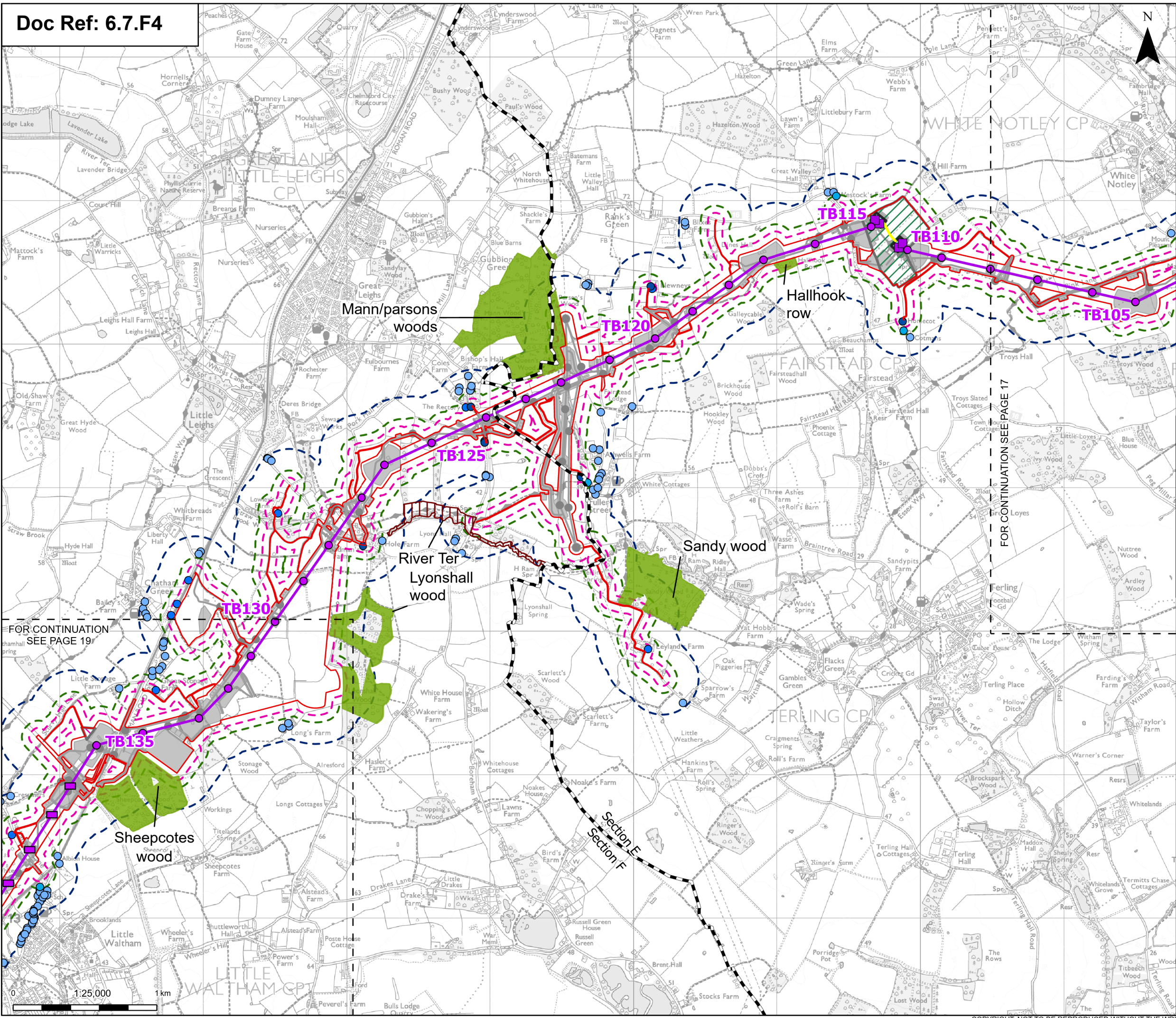
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Figure 7.4 - Air Quality -
Construction Dust Study Area
Page 17 of 24

Designed	S. Gkino	Date	21 Aug 25
Drawn	M. Pawaskar	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

Accepted as Concept Stage

Drawing Number:	10059280-ARC-EAQ-ZZ-DR-ZZ-00430	Revision:	A
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Order limits
Sheet index outline
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

- 50 m Study Area

Sensitive receptors

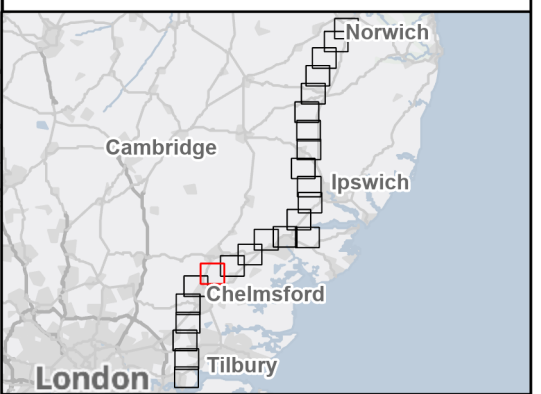
- Within 20 m Study Area
- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)
- Sites of special scientific interest (SSSI)

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

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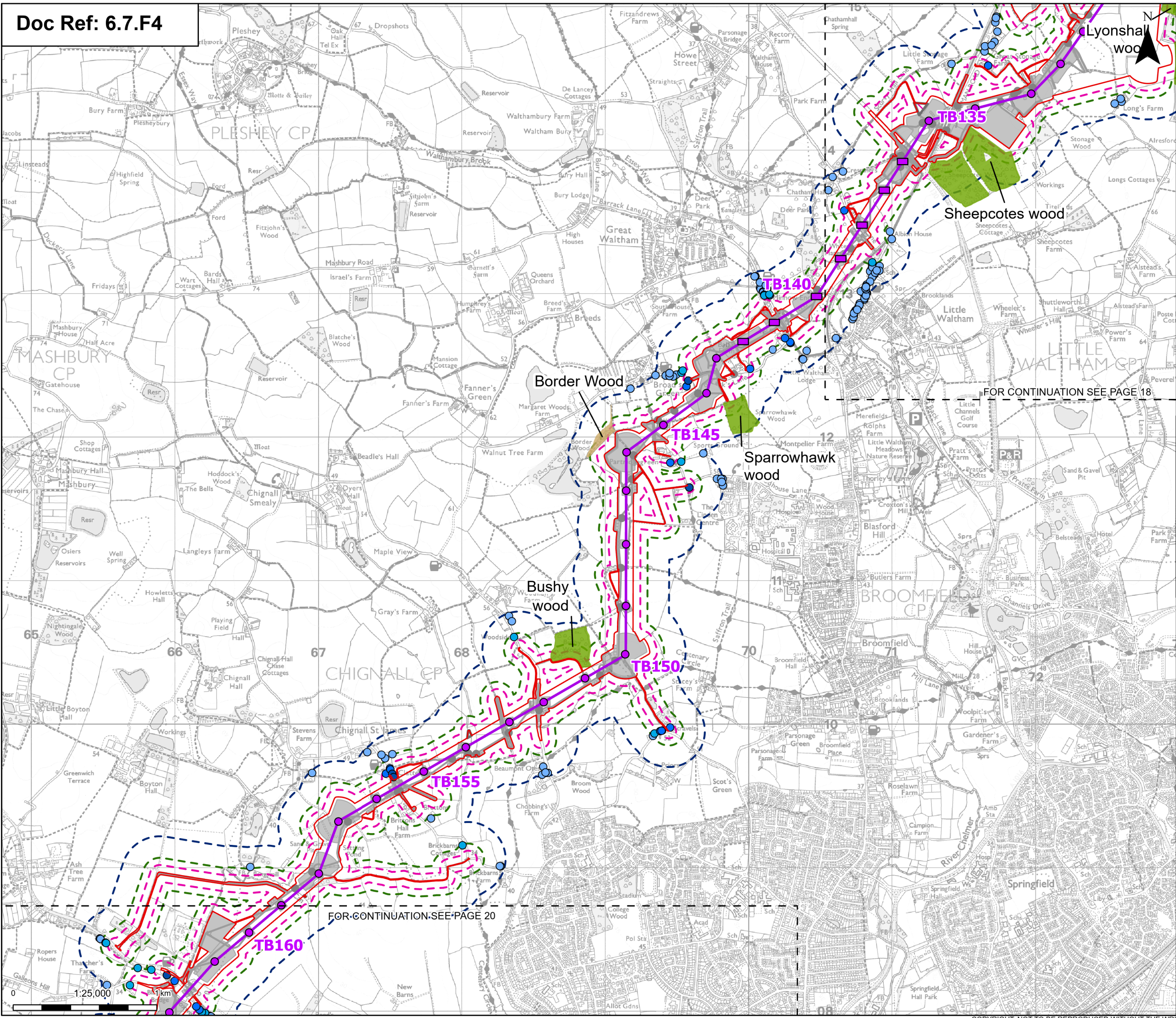
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure 7.4 - Air Quality - Construction Dust Study Area
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Designed	S. Gkino	Date	21 Aug 25
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EAQ-ZZ-DR-ZZ-00430	Revision: A
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Order limits

- Between 20 m to 50 m Study Area
- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area

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

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

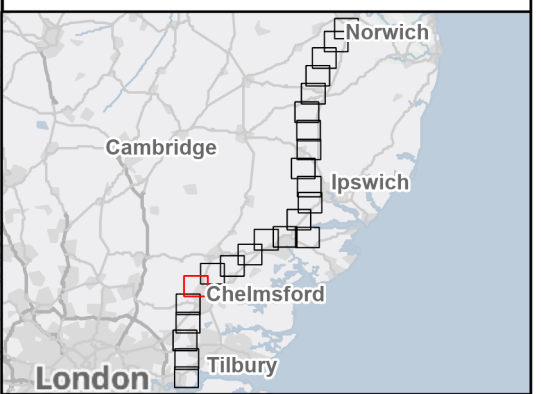
- Within 20 m Study Area

Ecological sites within 50 m

- Ancient woodland (AW)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory

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

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PROJECT:
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Title:

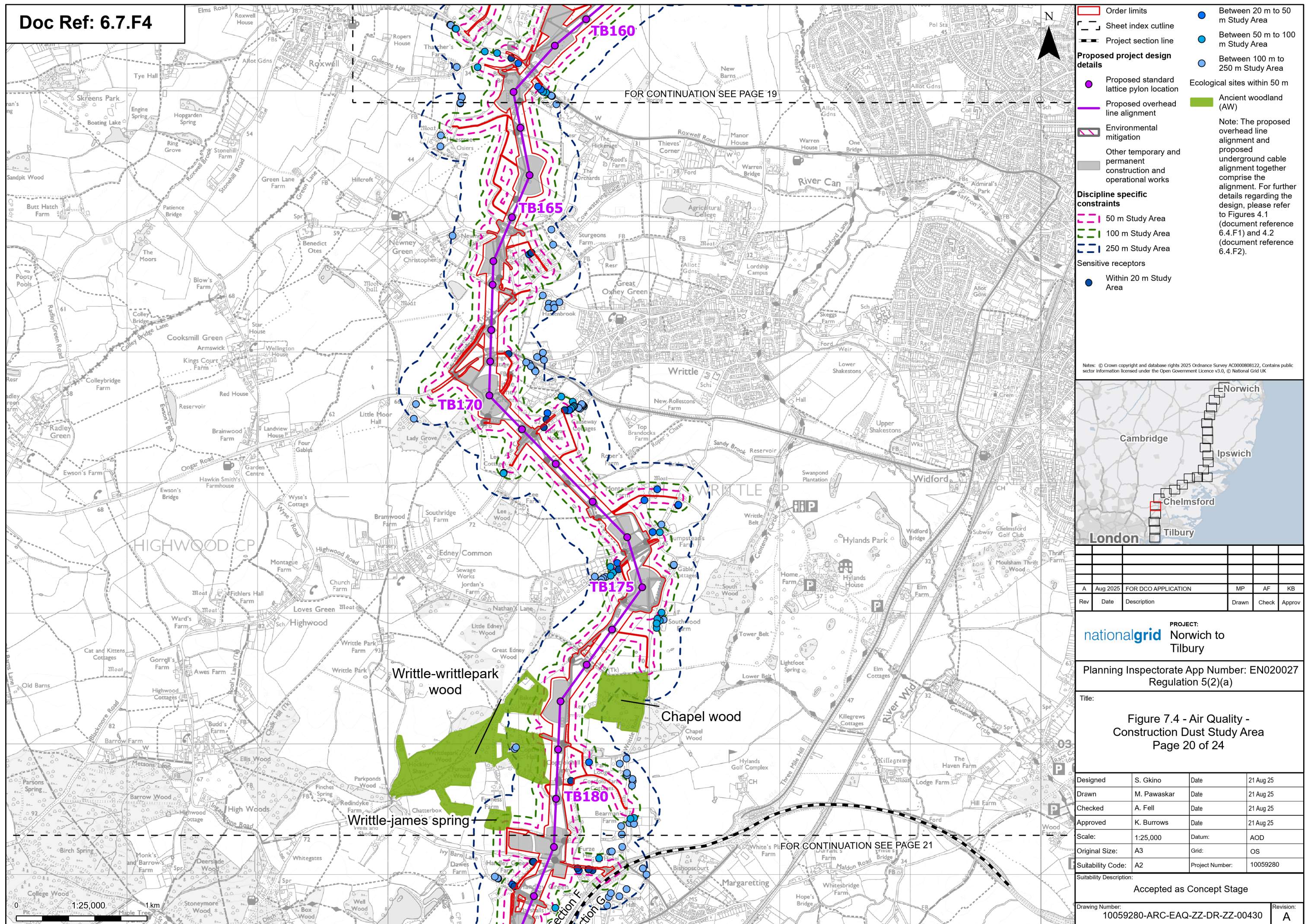
Figure 7.4 - Air Quality -
Construction Dust Study Area
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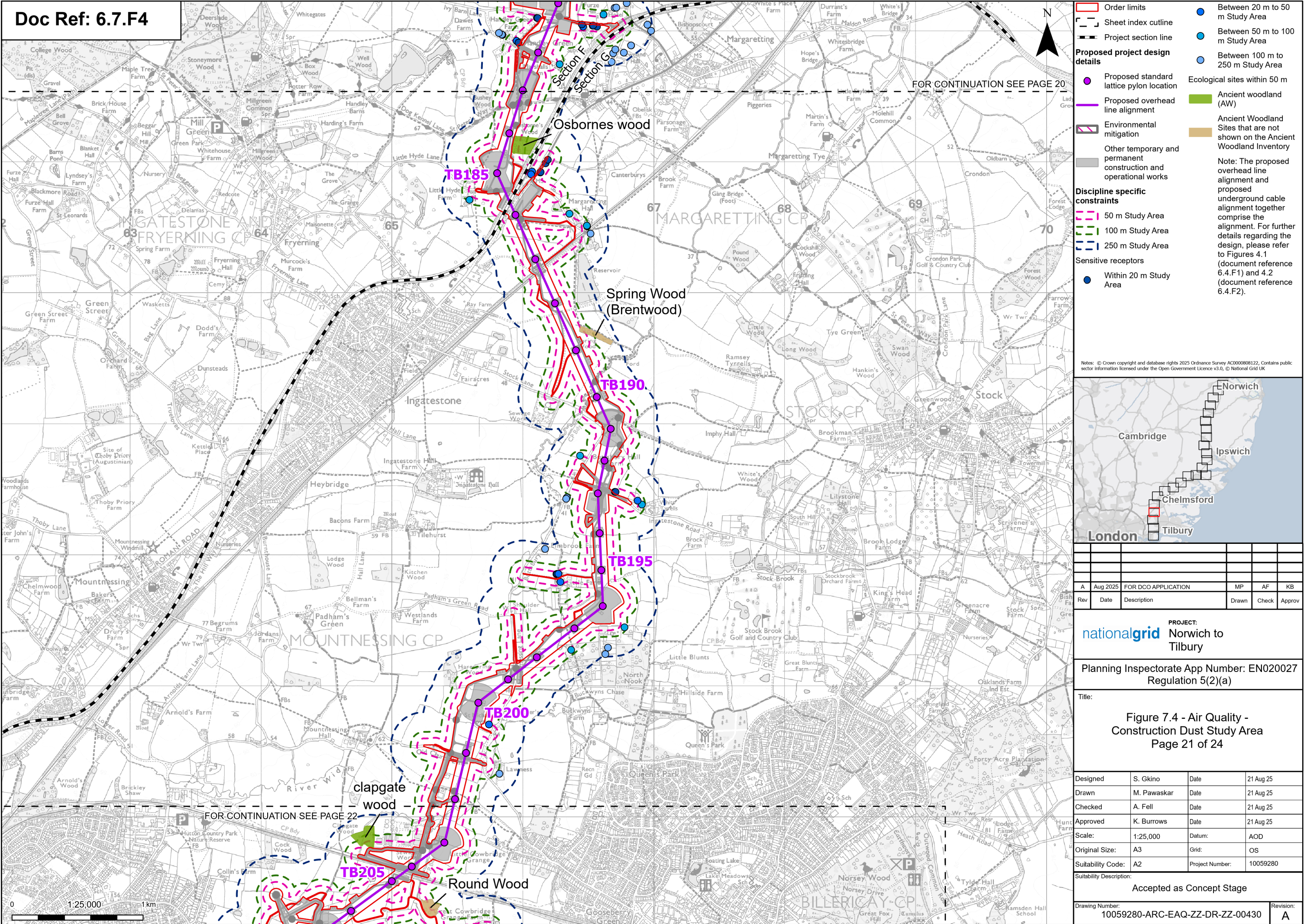
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Suitability Code:	A2	Project Number:	10059280

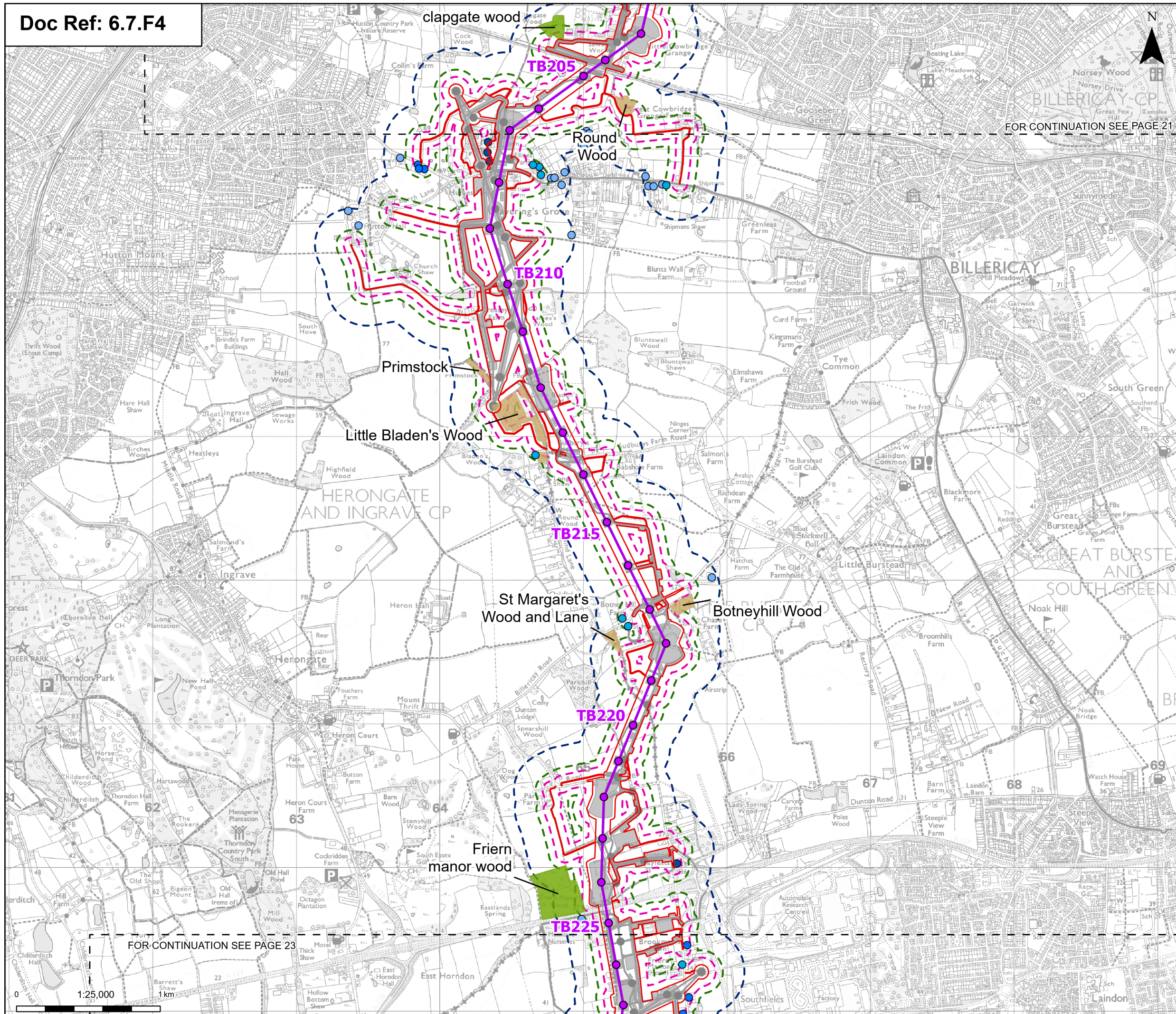
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EAQ-ZZ-DR-ZZ-00430

Revision:
A







Order limits

- 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

Ecological sites within 50 m

- Between 50 m to 100 m Study Area
- Between 100 m to 250 m Study Area
- Ancient woodland (AW)
- Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory

Discipline specific constraints

- 50 m Study Area
- 100 m Study Area
- 250 m Study Area

Sensitive receptors

- Within 20 m Study Area
- Between 20 m to 50 m Study Area

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

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

Title:

Figure 7.4 - Air Quality -
Construction Dust Study Area
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

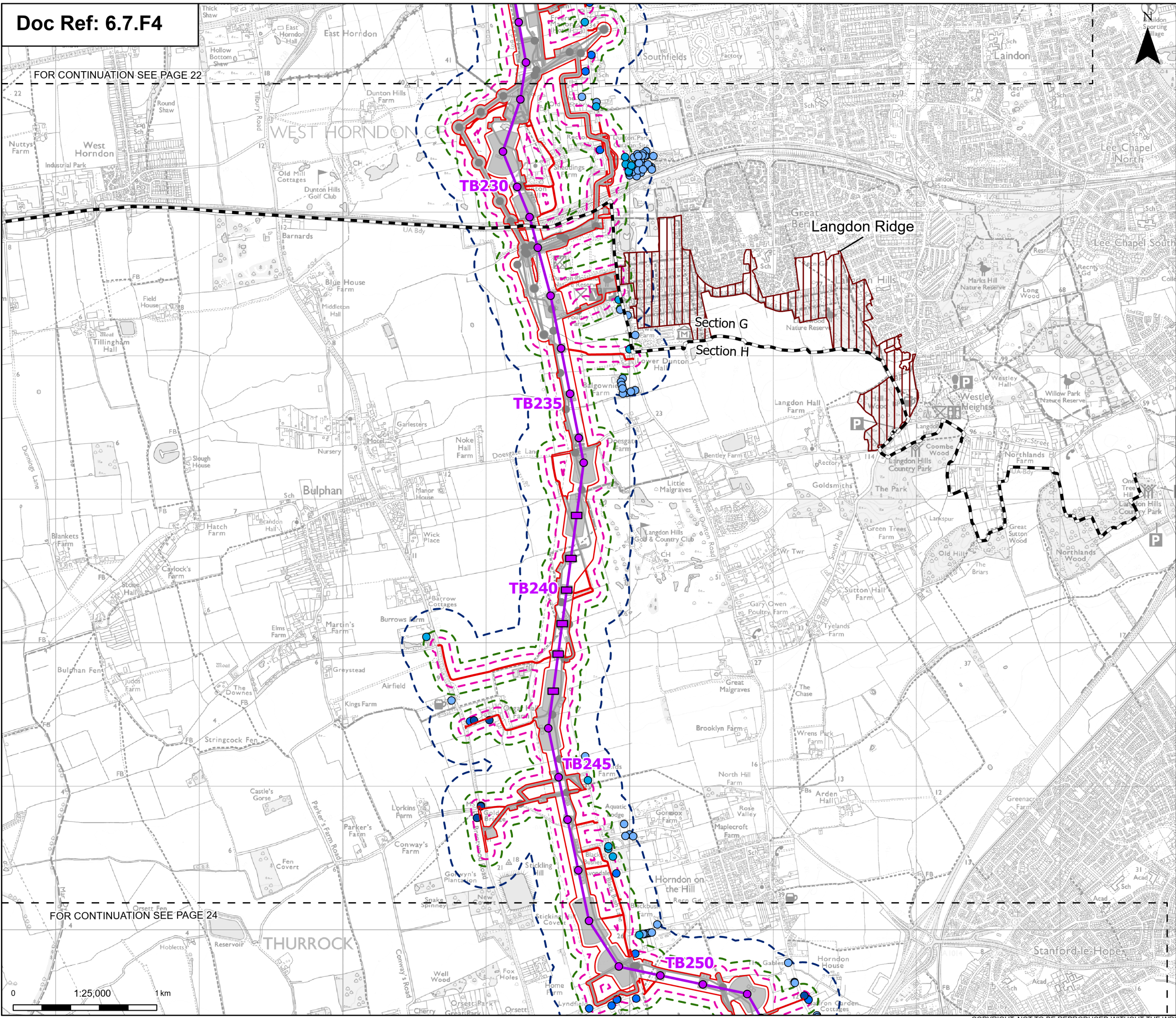
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EAQ-ZZ-DR-ZZ-00430

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A

FOR CONTINUATION SEE PAGE 22

FOR CONTINUATION SEE PAGE 24



Order limits

Sheet index cutline

Project section line

Proposed low height pylon location

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

50 m Study Area

100 m Study Area

250 m Study Area

Within 20 m Study Area

Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Sites of special scientific interest (SSSI)

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).

Discipline specific constraints

50 m Study Area

100 m Study Area

250 m Study Area

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PROJECT:

nationalgrid

Norwich to Tilbury

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Regulation 5(2)(a)

Title:

Figure 7.4 - Air Quality - Construction Dust Study Area
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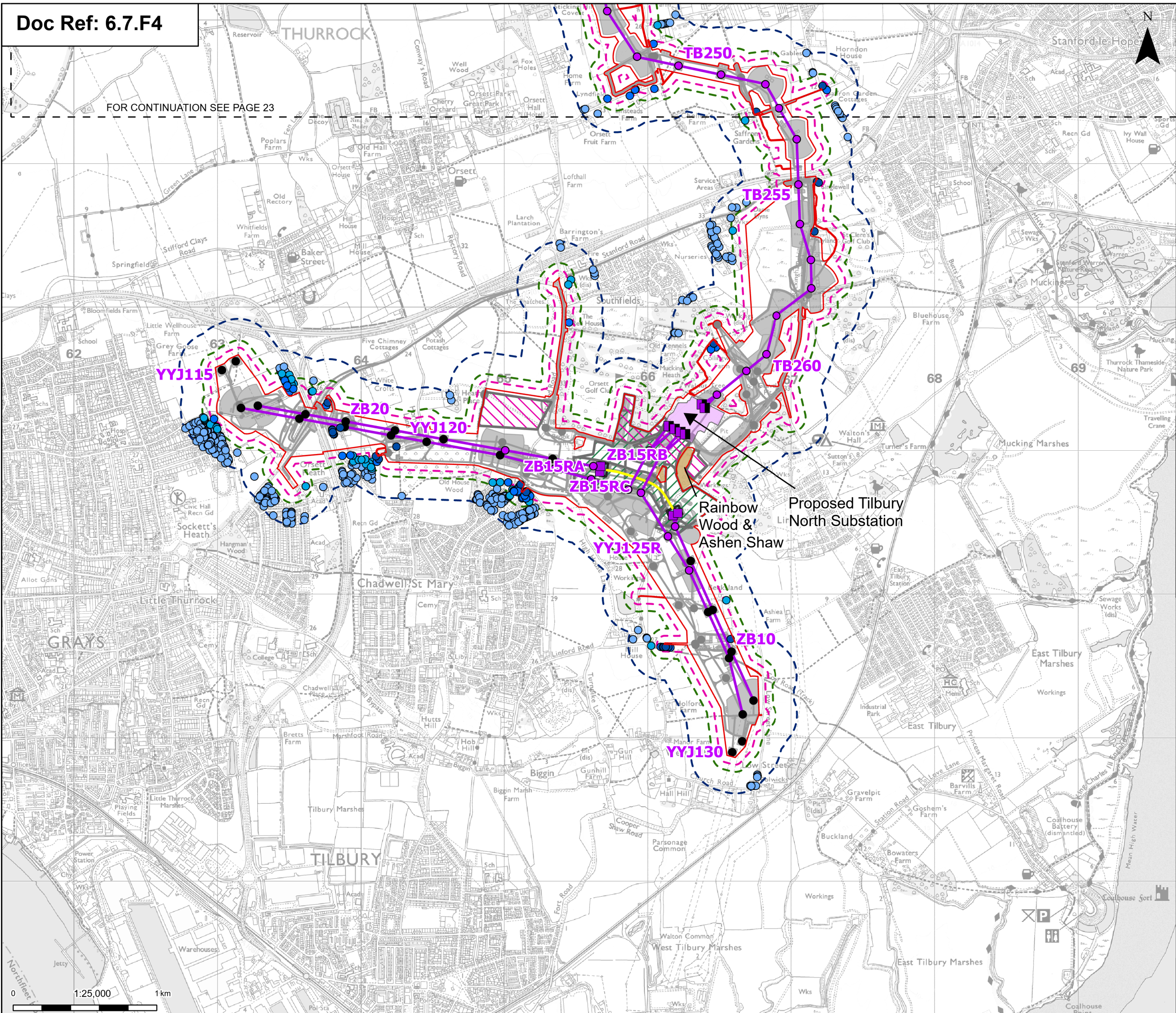
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FOR CONTINUATION SEE PAGE 23



Order limits

Sheet index outline

Proposed project design details

Proposed full line tension gantry

Proposed low duty gantry

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed Tilbury North Substation

Proposed cable sealing end compound (CSEC)

Environmental area

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

50 m Study Area

100 m Study Area

250 m Study Area

Sensitive receptors

Within 20 m Study Area

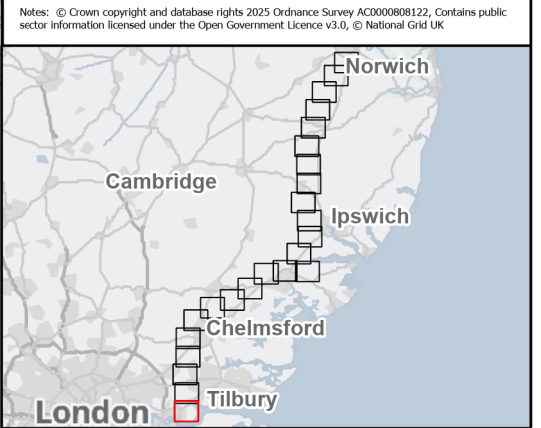
Between 20 m to 50 m Study Area

Between 50 m to 100 m Study Area

Between 100 m to 250 m Study Area

Ancient Woodland Sites that are not shown on the Ancient Woodland Inventory

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



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nationalgrid Norwich to Tilbury

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Title:

Figure 7.4 - Air Quality -
Construction Dust Study Area
Page 24 of 24

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Suitability Description:
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