

# Norwich to Tilbury

## Volume 6: Environmental Statement

Document: 6.16.F5 Environmental Statement Figure 16.5 - Additional Mitigation Measures

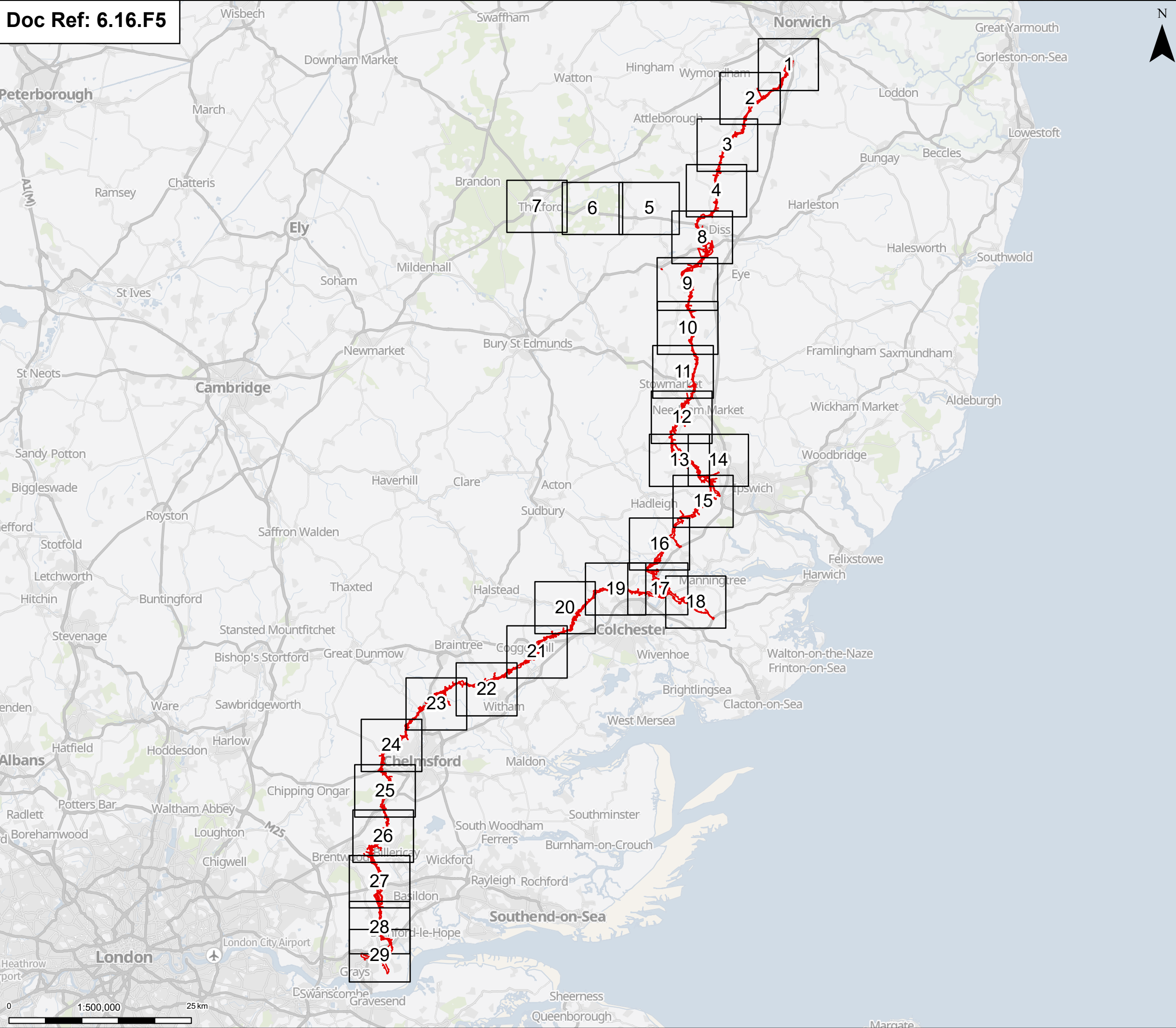
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

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

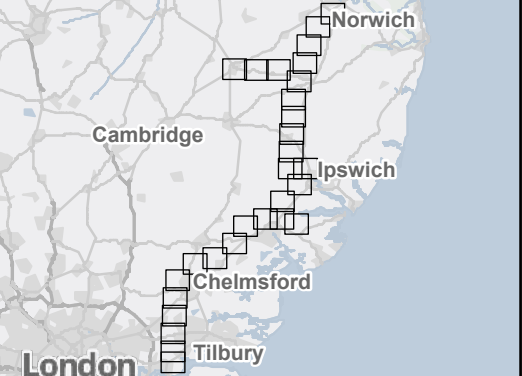




Order limits

Page

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PROJECT:  
Norwich to  
Tilbury

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

Title:  
**Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
Overview**

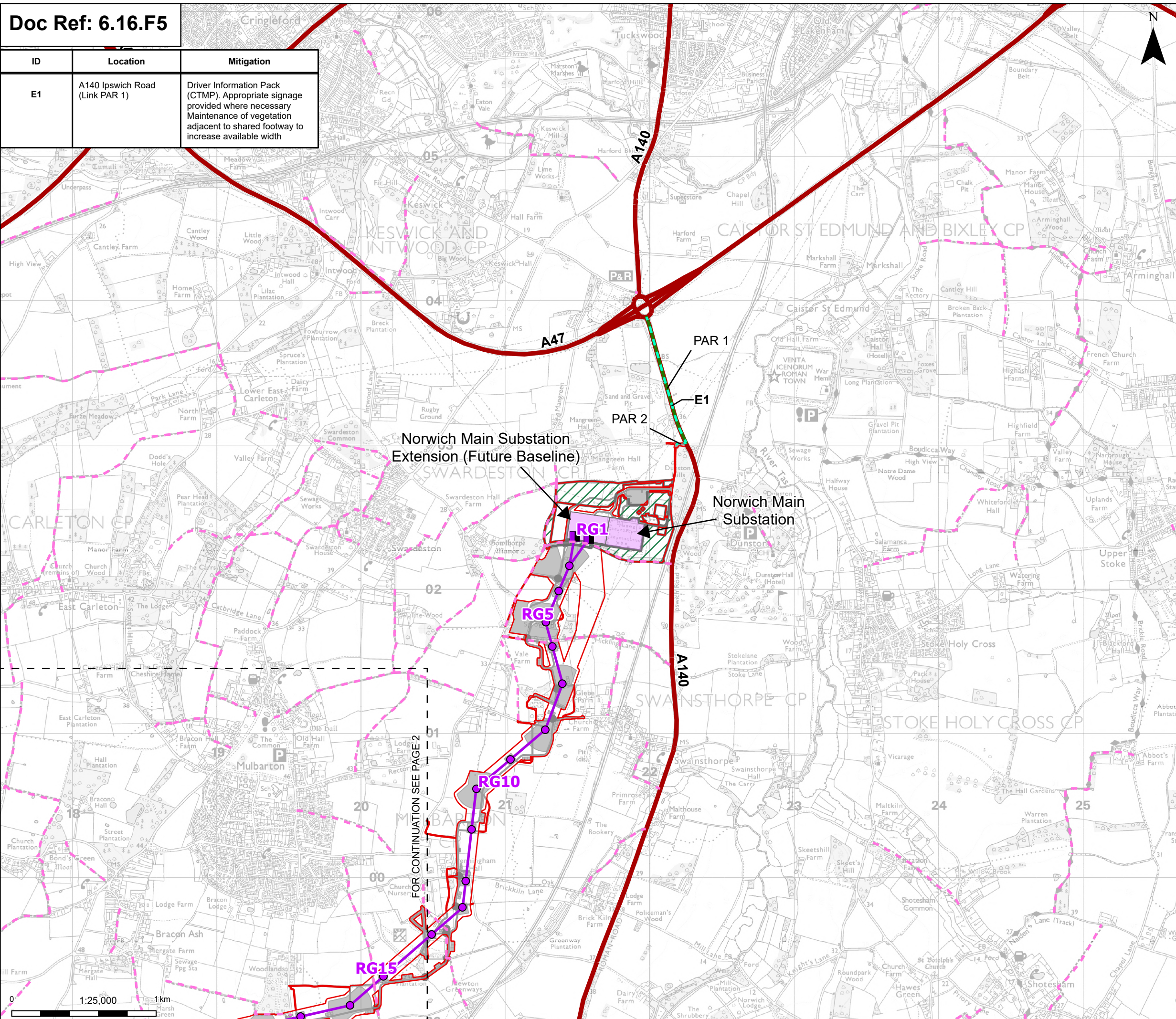
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Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280














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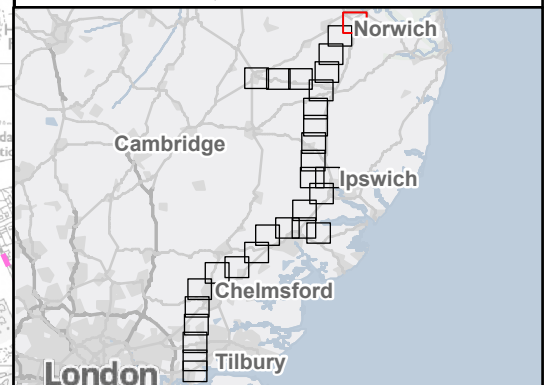
ID	Location	Mitigation
E1	A140 Ipswich Road (Link PAR 1)	Driver Information Pack (CTMP). Appropriate signage provided where necessary Maintenance of vegetation adjacent to shared footway to increase available width



-  Order limits
  -  Sheet index outline
  - Proposed project design details**
    -  Proposed full line tension gantry
    -  Proposed standard lattice pylon location
    -  Proposed overhead line alignment
    -  Norwich Main Substation
    -  Norwich Main Substation Extension (future baseline)
    -  Environmental area
    -  Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    -  IEMA mitigation (Link)
    -  Primary access route
    -  A Road
    -  Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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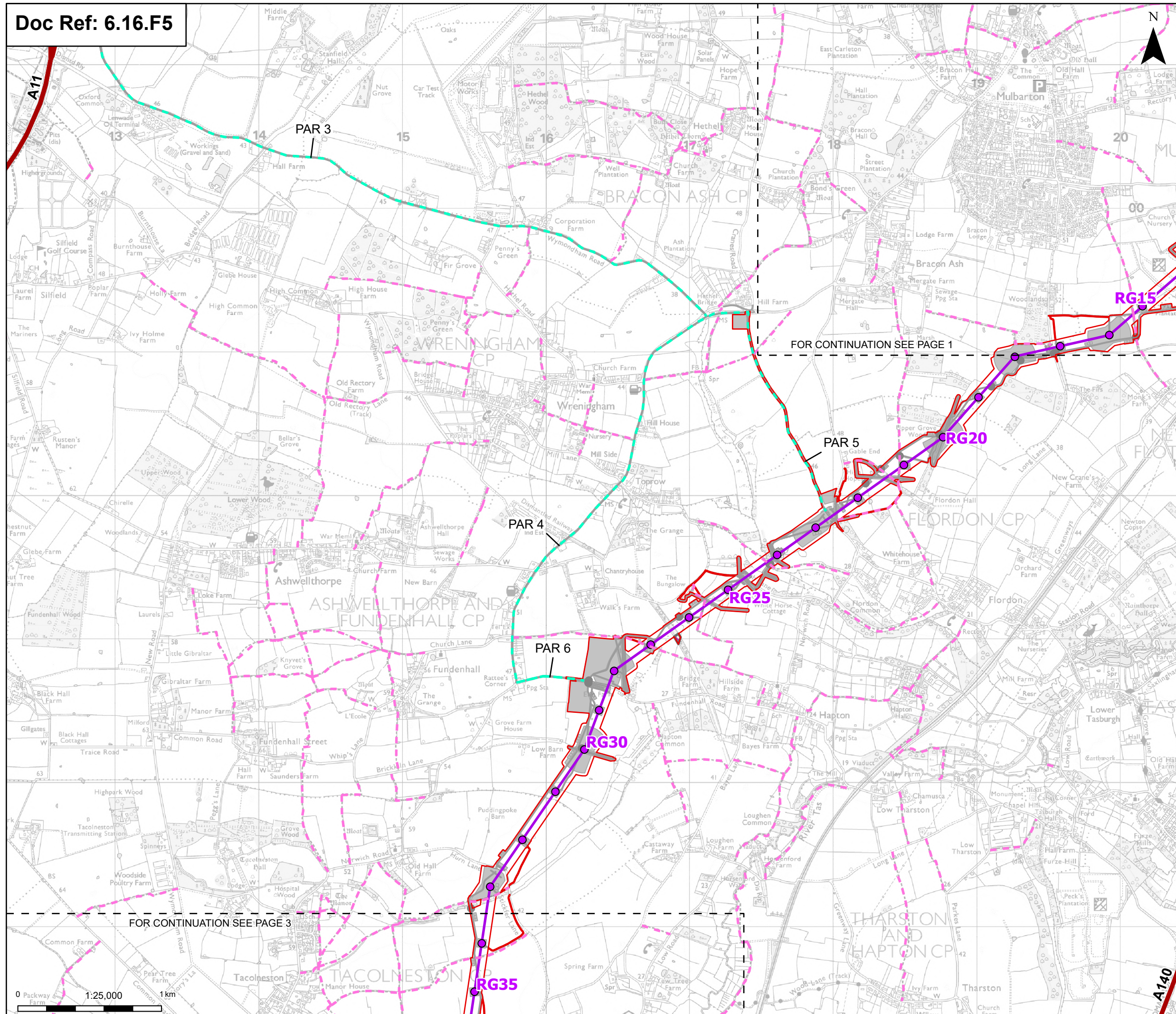
Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
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




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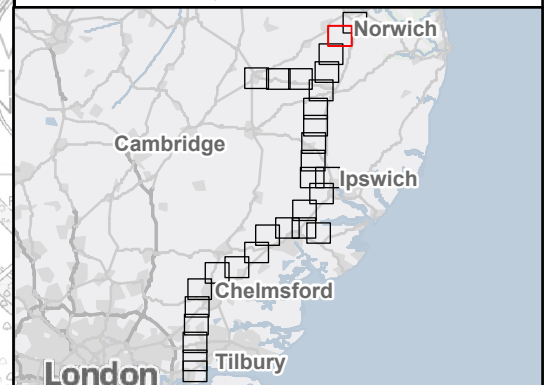




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- Proposed project design details**
  -  Proposed standard lattice pylon location
  -  Proposed overhead line alignment
  -  Environmental mitigation
  -  Other temporary and permanent construction and operational works
- Discipline specific constraints**
  -  Primary access route
  -  A Road
  -  Public Rights of Way

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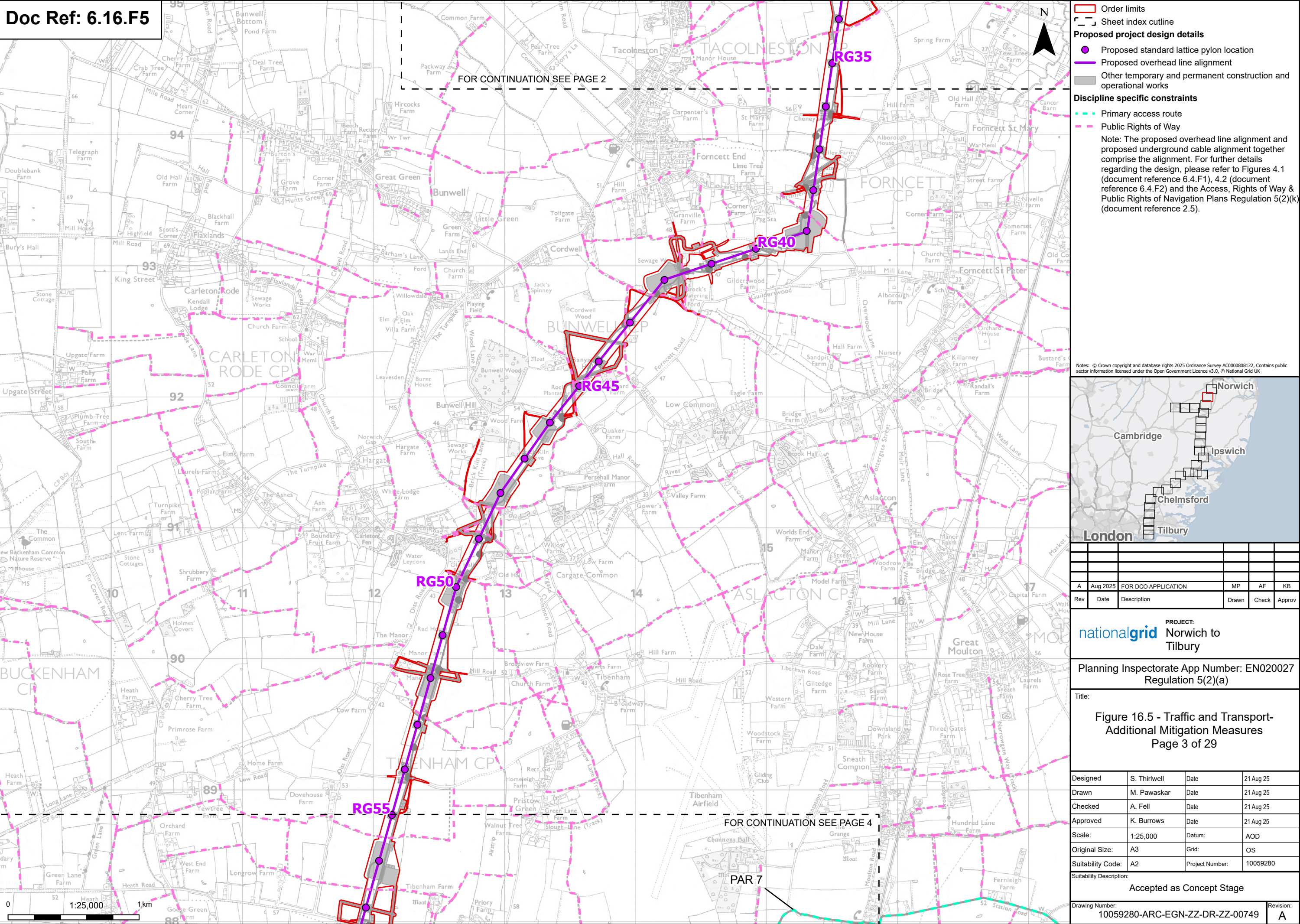
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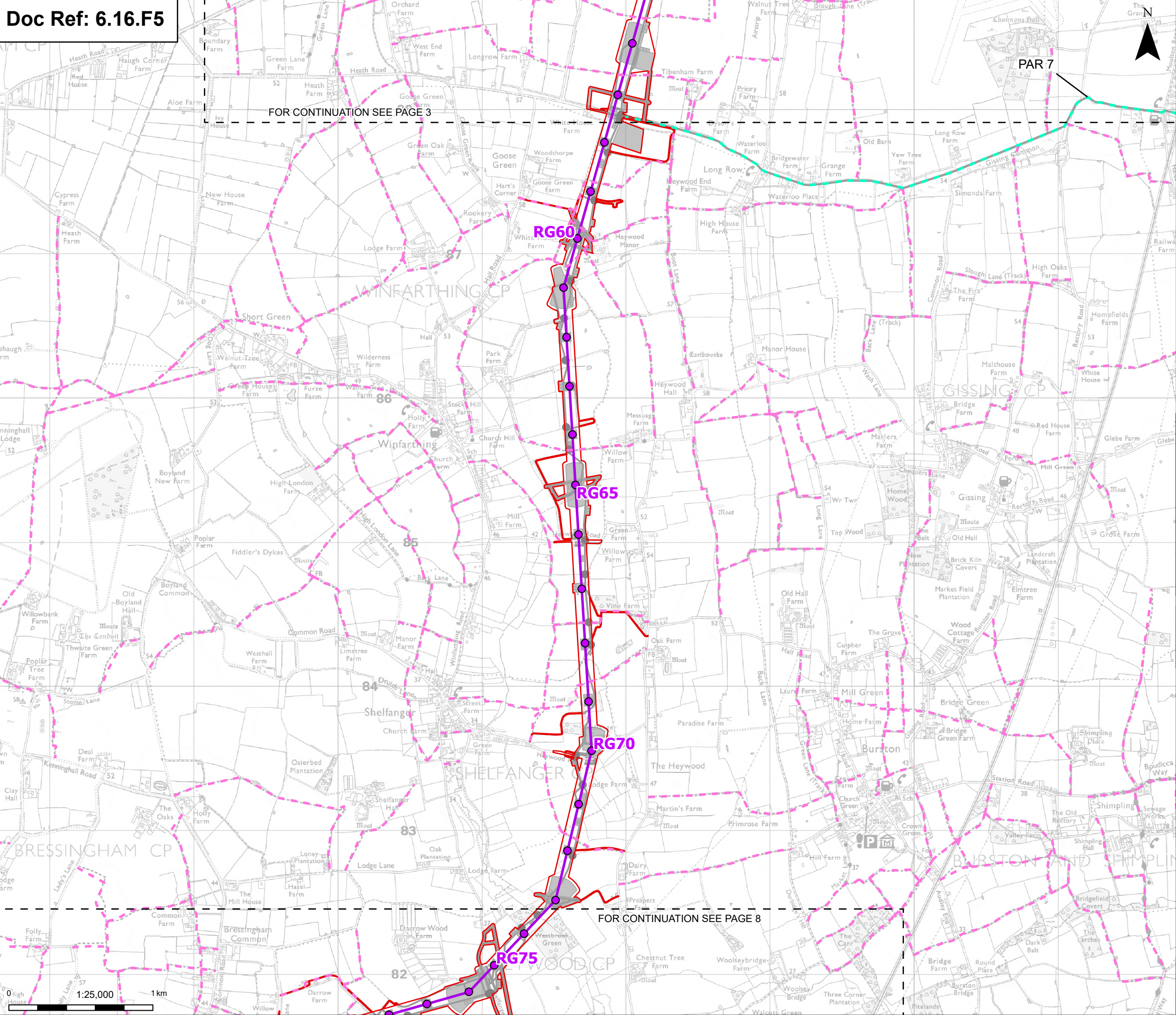
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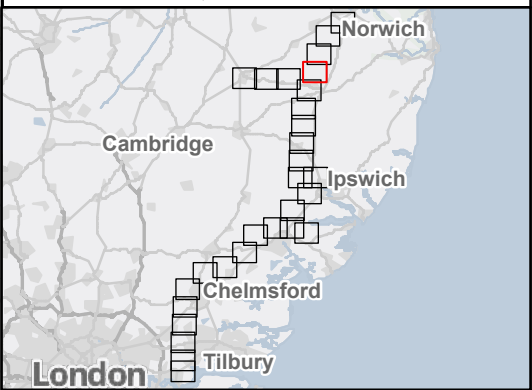






- Order limits
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- Proposed project design details
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Other temporary and permanent construction and operational works
- Discipline specific constraints
- Primary access route
- Public Rights of Way
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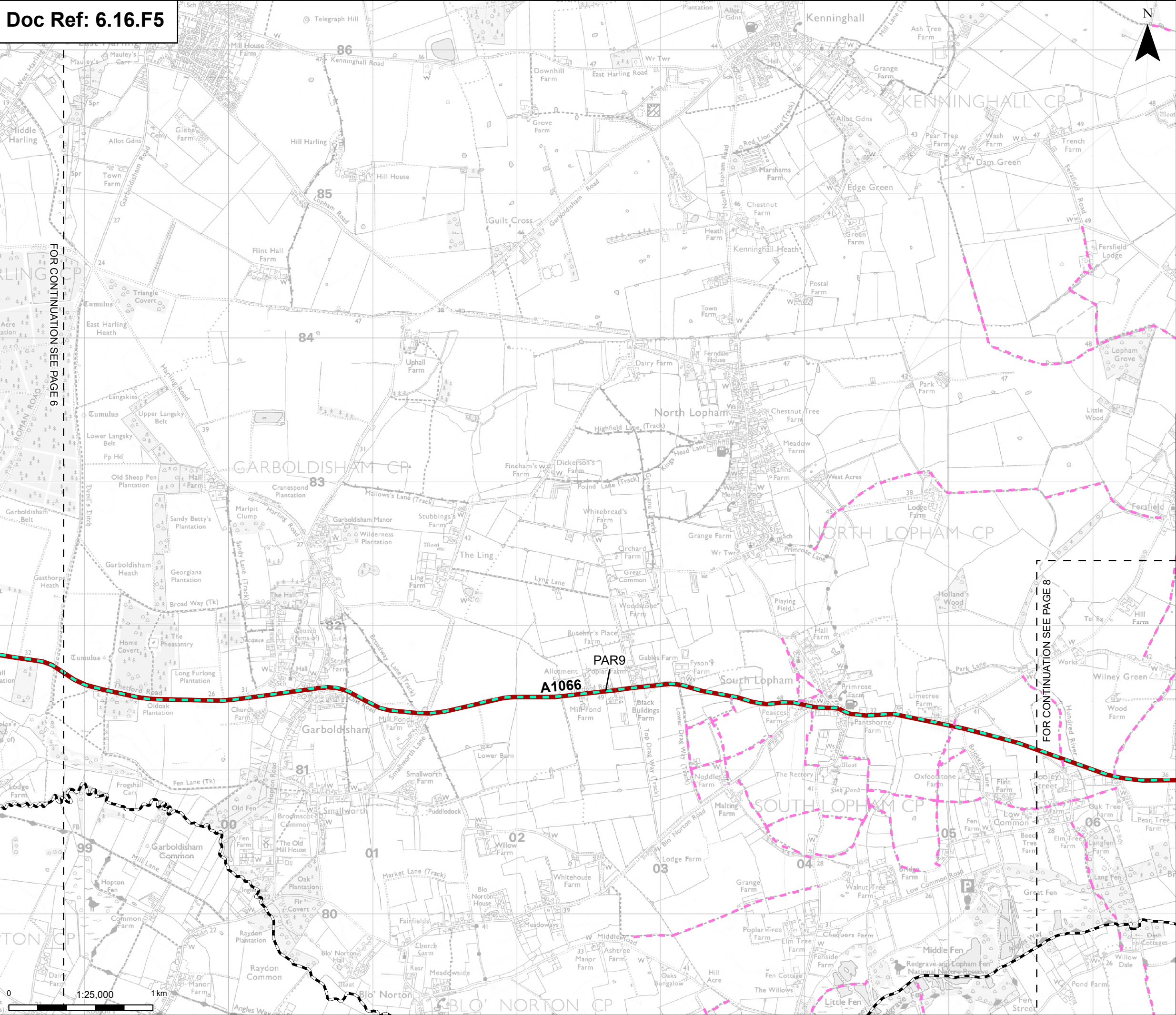
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Additional Mitigation Measures  
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Sheet index outline

Project section line

Discipline specific constraints

Primary access route

A Road

Public Rights of Way

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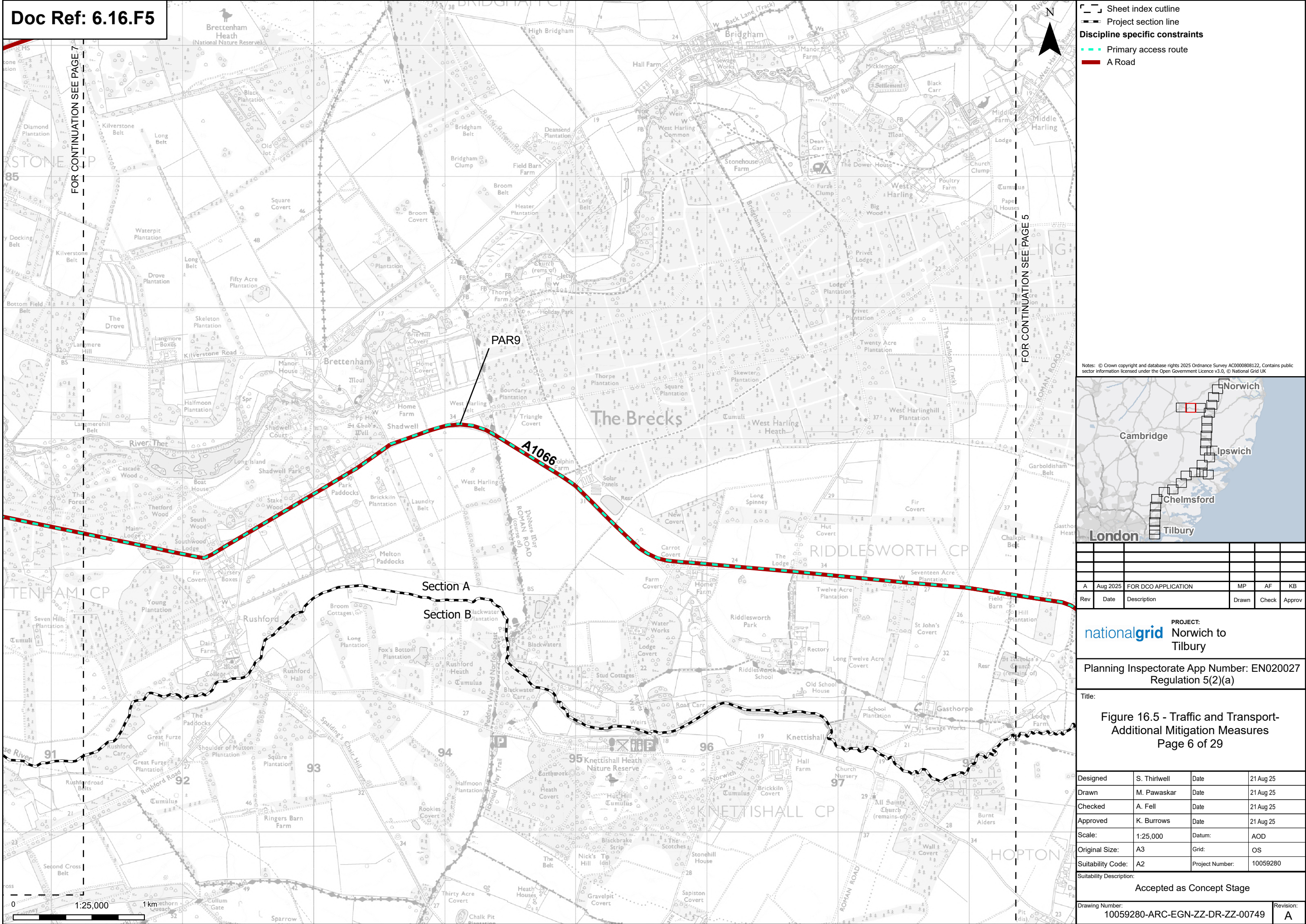
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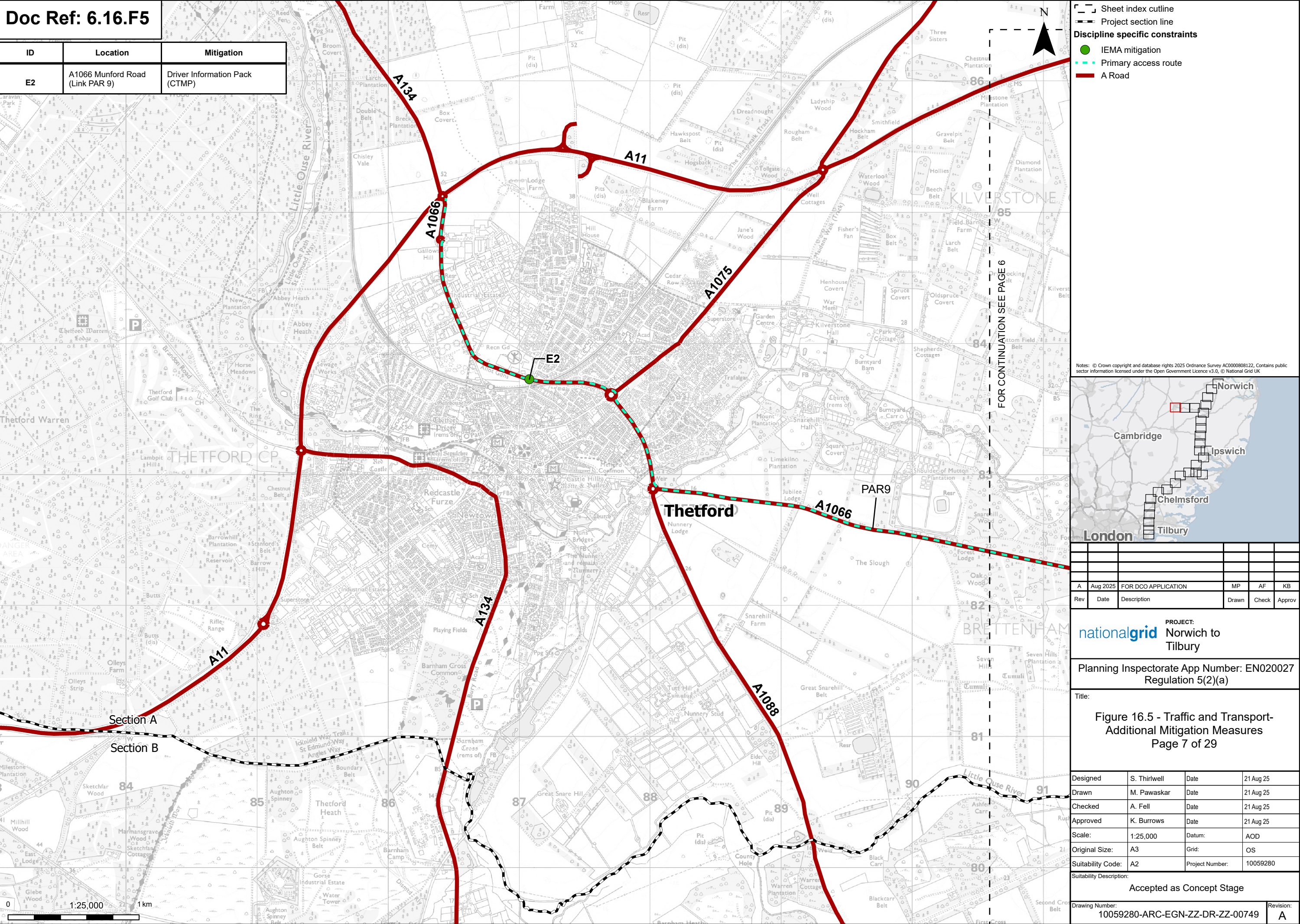
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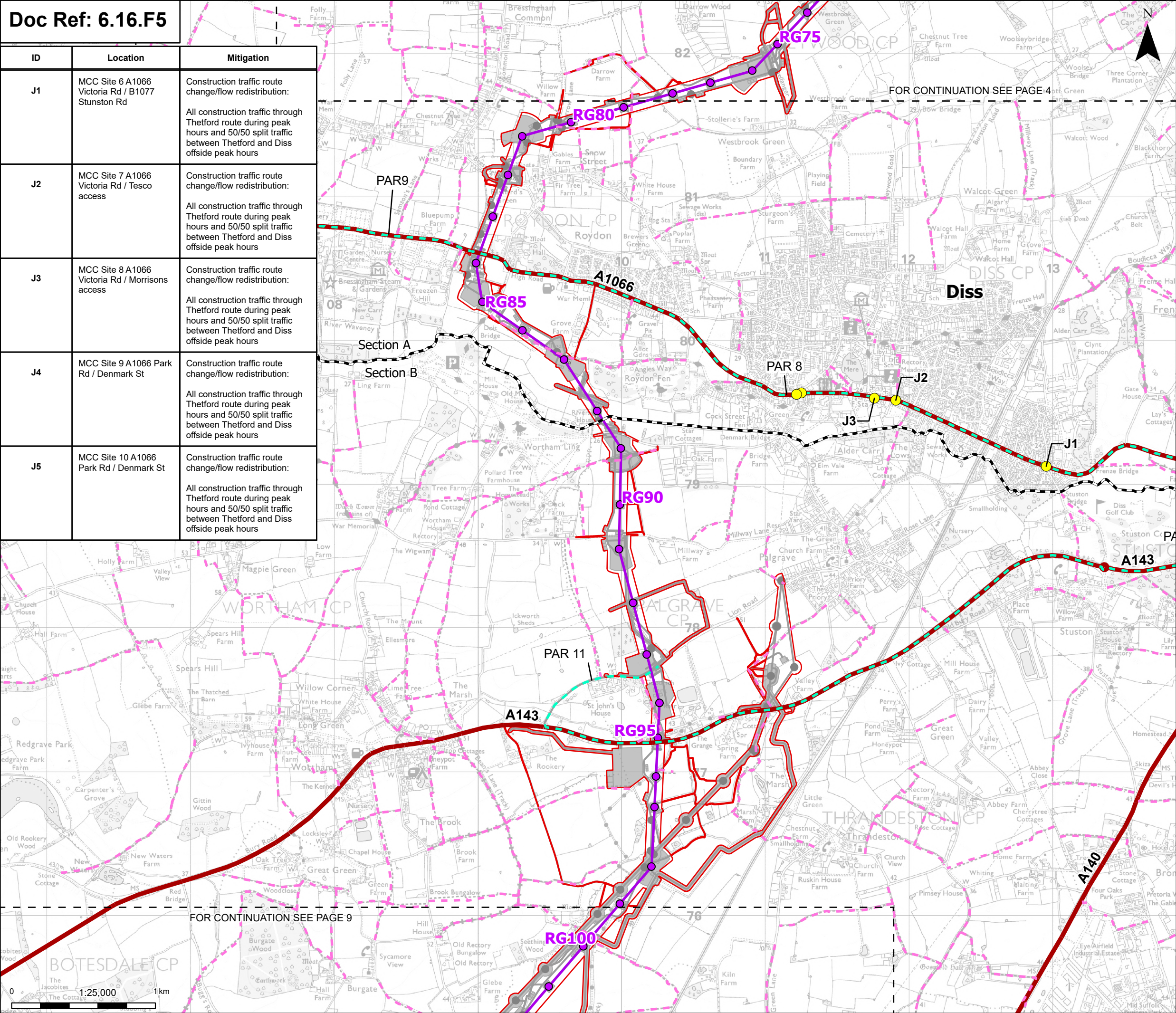








ID	Location	Mitigation
J1	MCC Site 6 A1066 Victoria Rd / B1077 Stunston Rd	Construction traffic route change/flow redistribution:  All construction traffic through Thetford route during peak hours and 50/50 split traffic between Thetford and Diss offside peak hours
J2	MCC Site 7 A1066 Victoria Rd / Tesco access	Construction traffic route change/flow redistribution:  All construction traffic through Thetford route during peak hours and 50/50 split traffic between Thetford and Diss offside peak hours
J3	MCC Site 8 A1066 Victoria Rd / Morrisons access	Construction traffic route change/flow redistribution:  All construction traffic through Thetford route during peak hours and 50/50 split traffic between Thetford and Diss offside peak hours
J4	MCC Site 9 A1066 Park Rd / Denmark St	Construction traffic route change/flow redistribution:  All construction traffic through Thetford route during peak hours and 50/50 split traffic between Thetford and Diss offside peak hours
J5	MCC Site 10 A1066 Park Rd / Denmark St	Construction traffic route change/flow redistribution:  All construction traffic through Thetford route during peak hours and 50/50 split traffic between Thetford and Diss offside peak hours



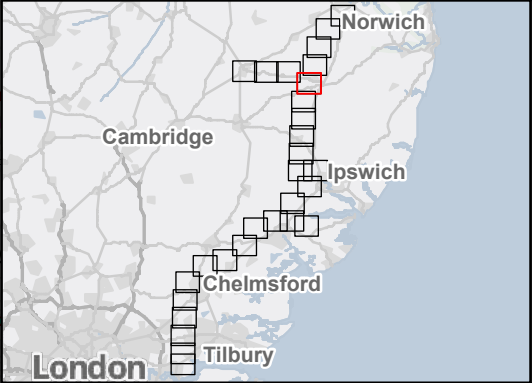
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**Proposed project design details**  
Proposed standard lattice pylon location  
Proposed overhead line alignment  
Environmental mitigation  
Other temporary and permanent construction and operational works

**Discipline specific constraints**  
Junction mitigation  
Primary access route  
A Road  
Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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Additional Mitigation Measures  
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ID	Location	Mitigation
E3	B1113 Finningham Rd / B1113 Walsham Road (Link PAR 12)	Driver Information Pack (CTMP). Cut back vegetation/ maintain verge to improve visibility and existing advanced warning signage. Improve existing signage. Notices on PRoW access indicating construction route Surface colouring under SLOW markings

FOR CONTINUATION SEE PAGE 8

# RG105

**RG110**

# RG115

# RG120

# Finningham

RG125



PAR 13

**Doc Ref: 6.16.F5**





ID	Location	Mitigation
E3	B1113 Finningham Rd / B1113 Walsham Road (Link PAR 12)	Driver Information Pack (CTMP). Cut back vegetation/maintain verge to improve visibility and existing advanced warning signage. Improve existing signage. Notices on PRow access indicating construction route. Surface colouring under SLOW markings

FOR CONTINUATION SEE PAGE 8





FOR CONTINUATION SEE PAGE 10

-  Order limits
-  Sheet index outline

**Proposed project design details**

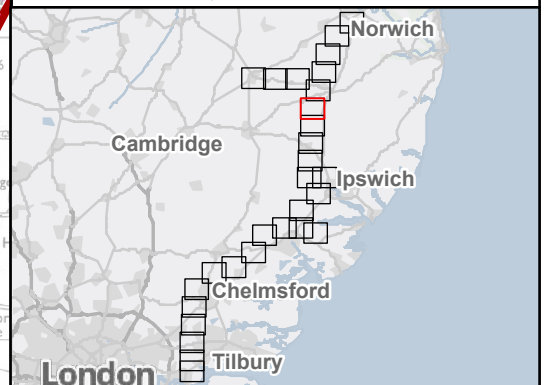
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-  Proposed overhead line alignment
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-  Other temporary and permanent construction and operational works

**Discipline specific constraints**

-  IEMA mitigation (Link)
-  Primary access route
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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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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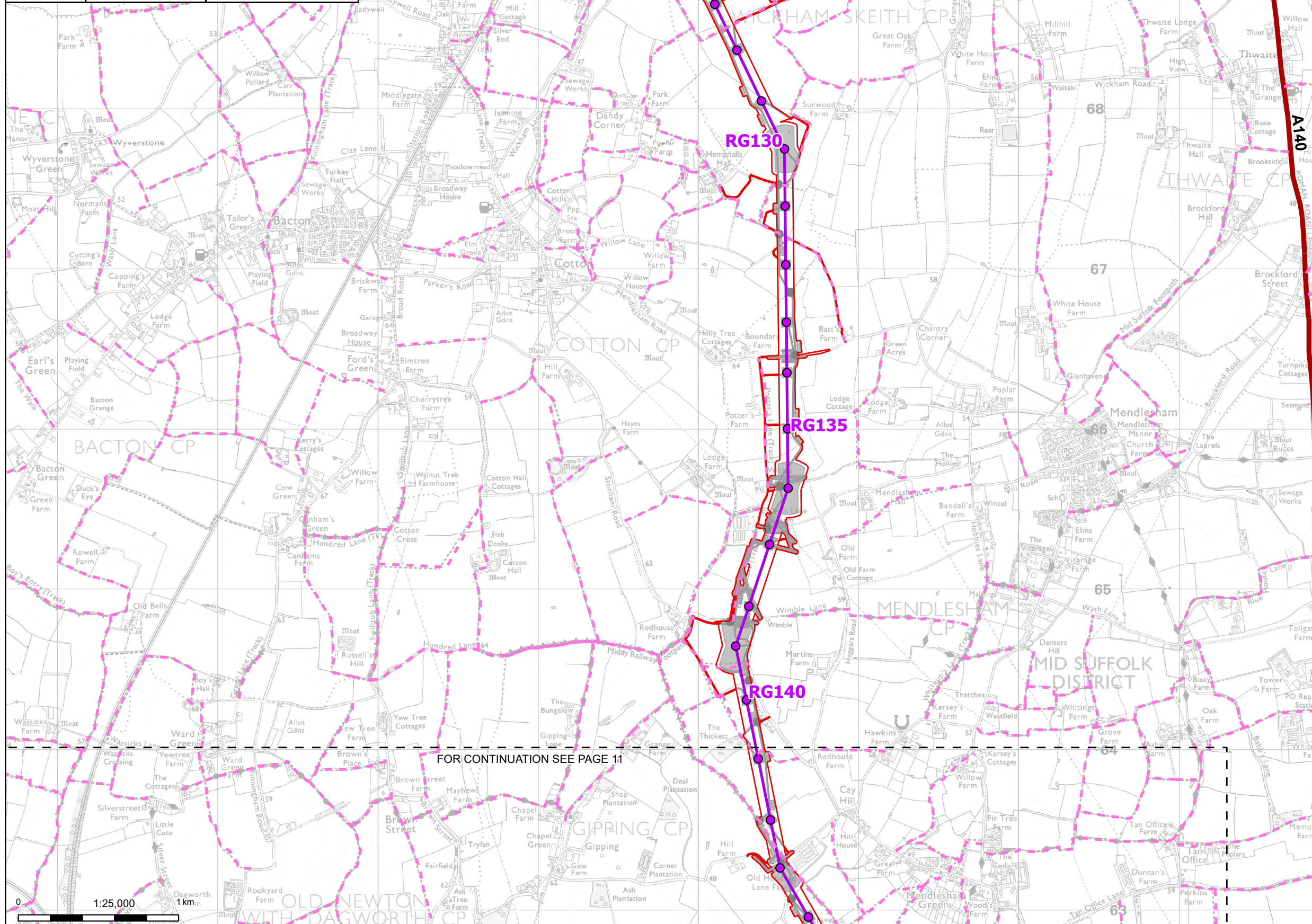
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



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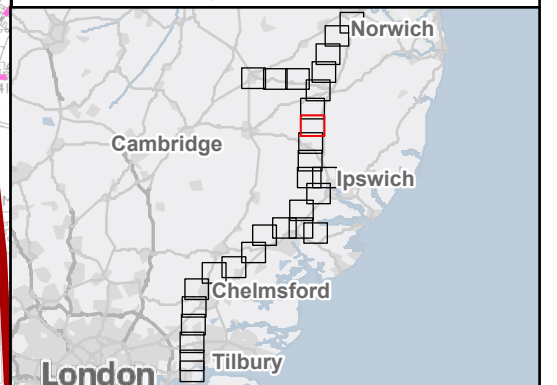
ID	Location	Mitigation
E3	B1113 Finningham Rd / B1113 Walsham Road (Link PAR 12)	Driver Information Pack (CTMP). Cut back vegetation/ maintain verge to improve visibility and existing advanced warning signage. Improve existing signage. Notices on PRoW access indicating construction route Surface colouring under SLOW markings



-  Order limits
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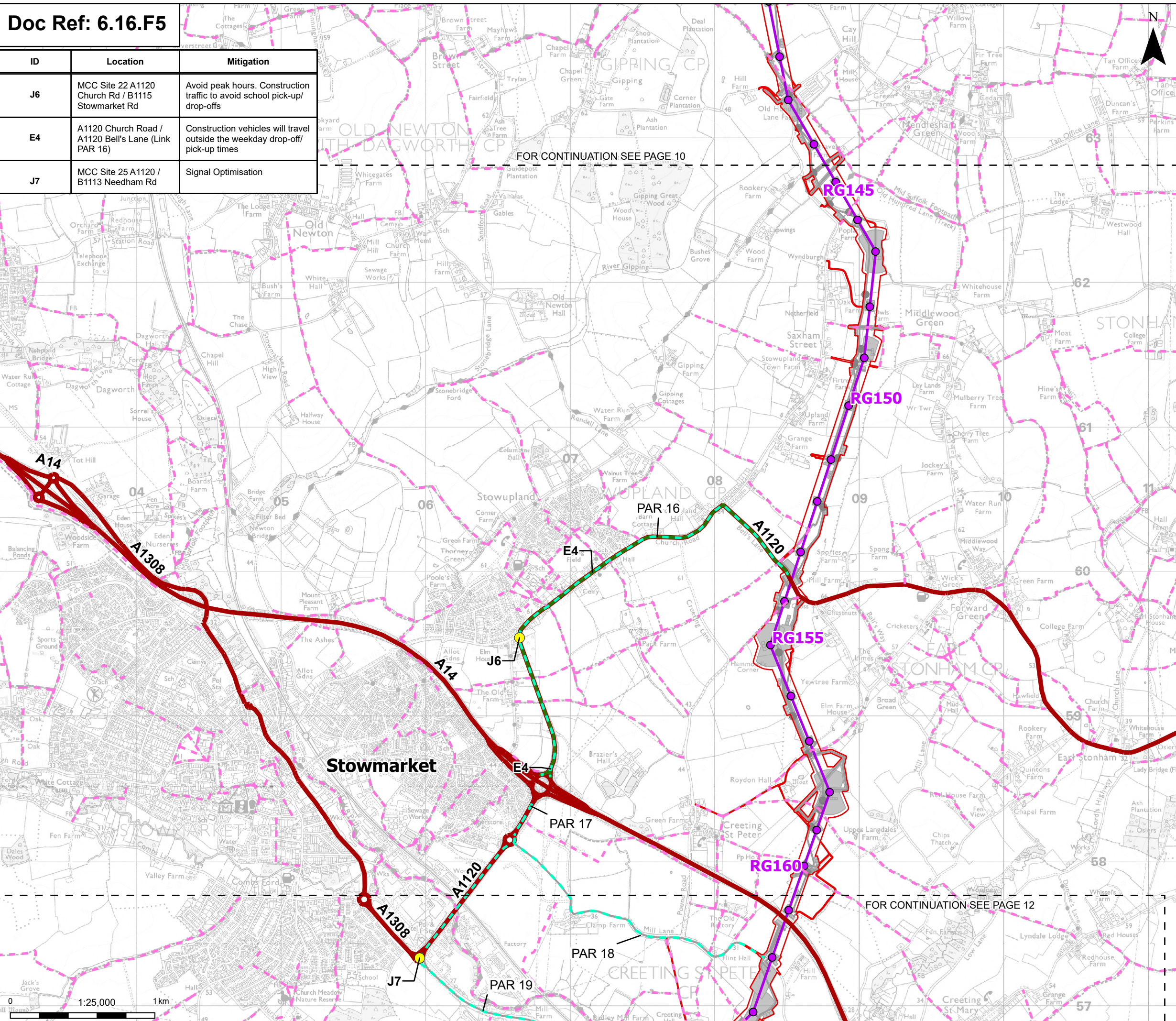
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








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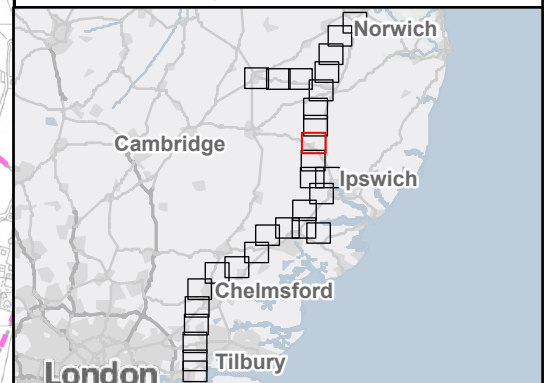


ID	Location	Mitigation
J6	MCC Site 22 A1120 Church Rd / B1115 Stowmarket Rd	Avoid peak hours. Construction traffic to avoid school pick-up/ drop-offs
E4	A1120 Church Road / A1120 Bell's Lane (Link PAR 16)	Construction vehicles will travel outside the weekday drop-off/ pick-up times
J7	MCC Site 25 A1120 / B1113 Needham Rd	Signal Optimisation



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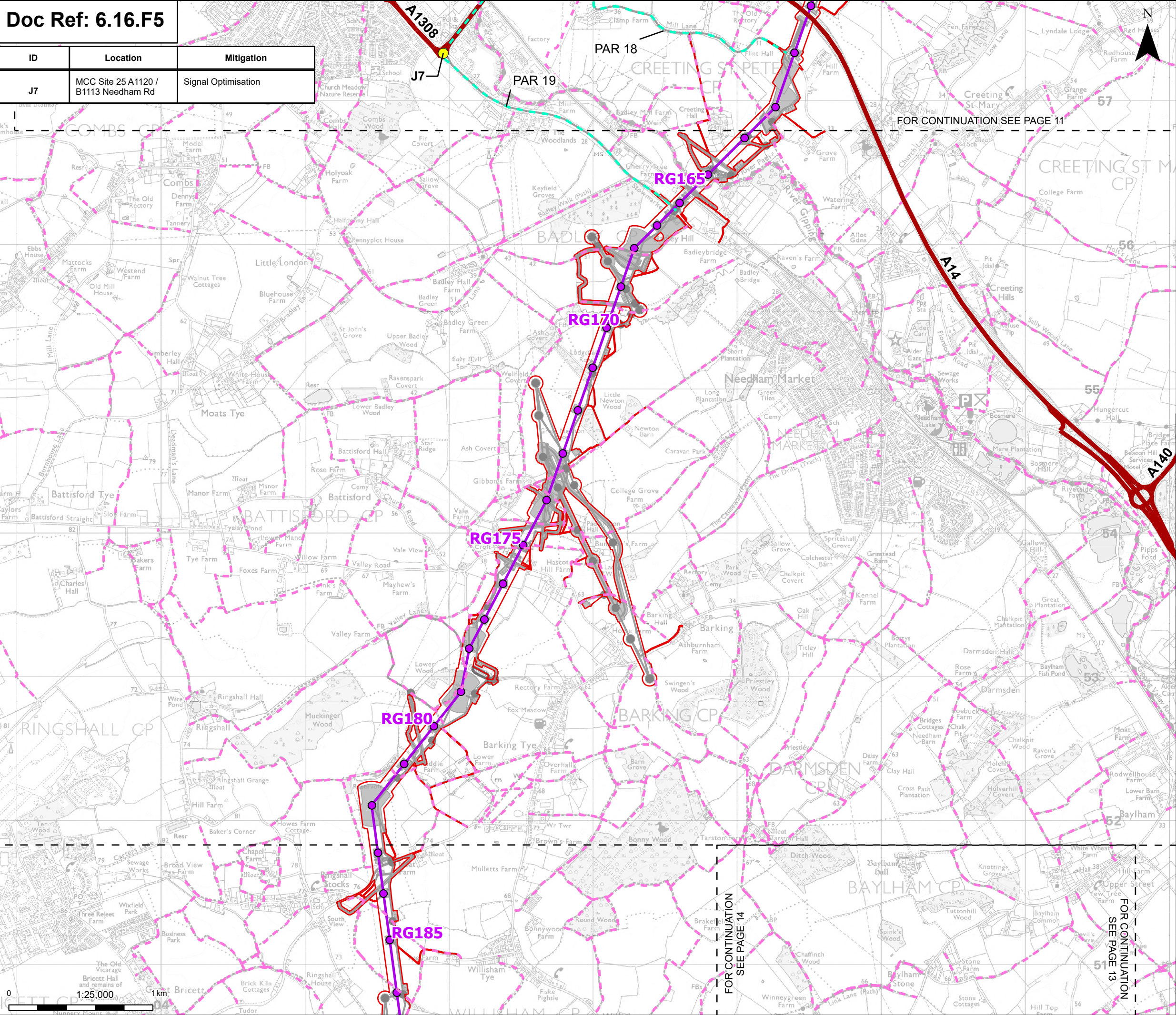
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ID	Location	Mitigation
J7	MCC Site 25 A1120 / B1113 Needham Rd	Signal Optimisation



**Order limits**

**Sheet index outline**

**Proposed project design details**

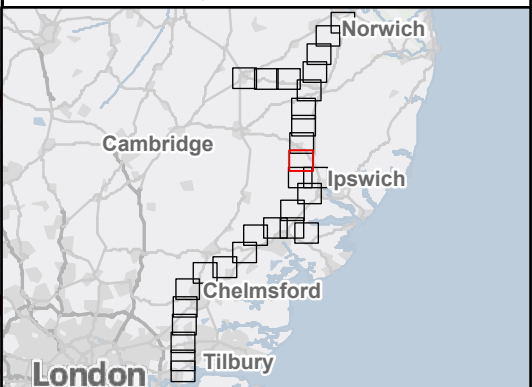
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

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- A Road
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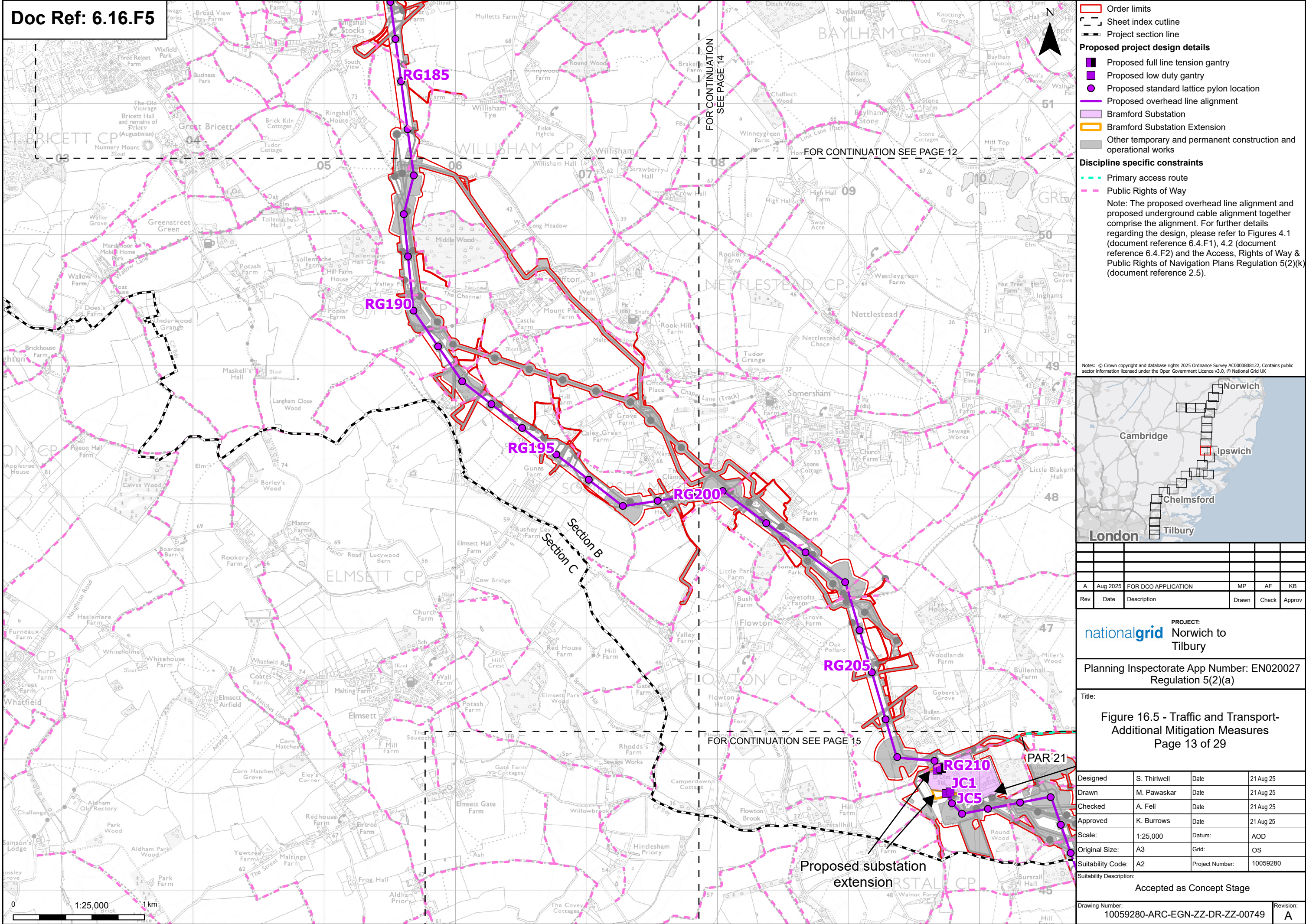
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Suitability Description:  
Accepted as Concept Stage

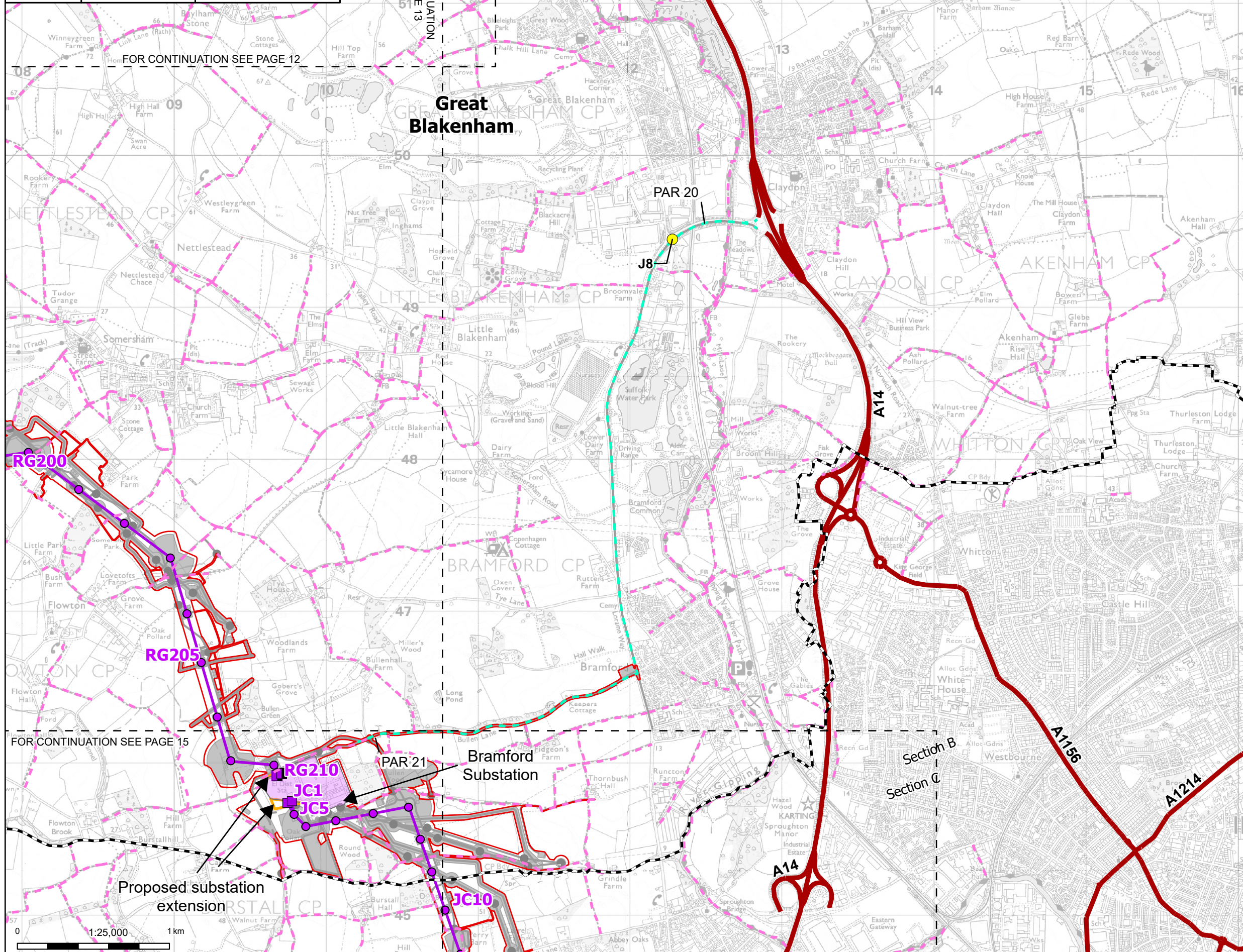
Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00749	Revision: A
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ID	Location	Mitigation
J8	MCC Site 27 B1113 Bramford Rd / Bramford Rd	Signal Optimisation





-  Order limits


 Sheet index outline


 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**

 Junction mitigation

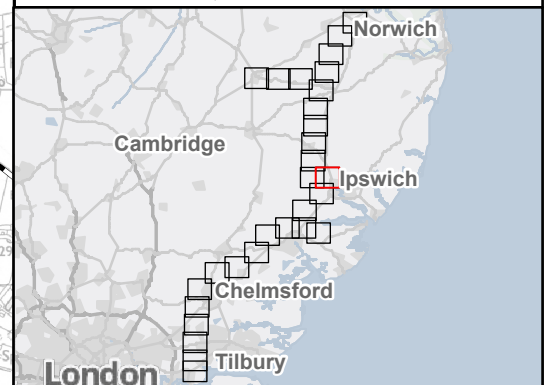
 Primary access route

 A Road

 Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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**nationalgrid** PROJECT: Norwich to Tilbury

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

Title: Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
Page 14 of 29

Designed	S. Thirlwell	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
Suitability Description:			

Accepted as Concept Stage

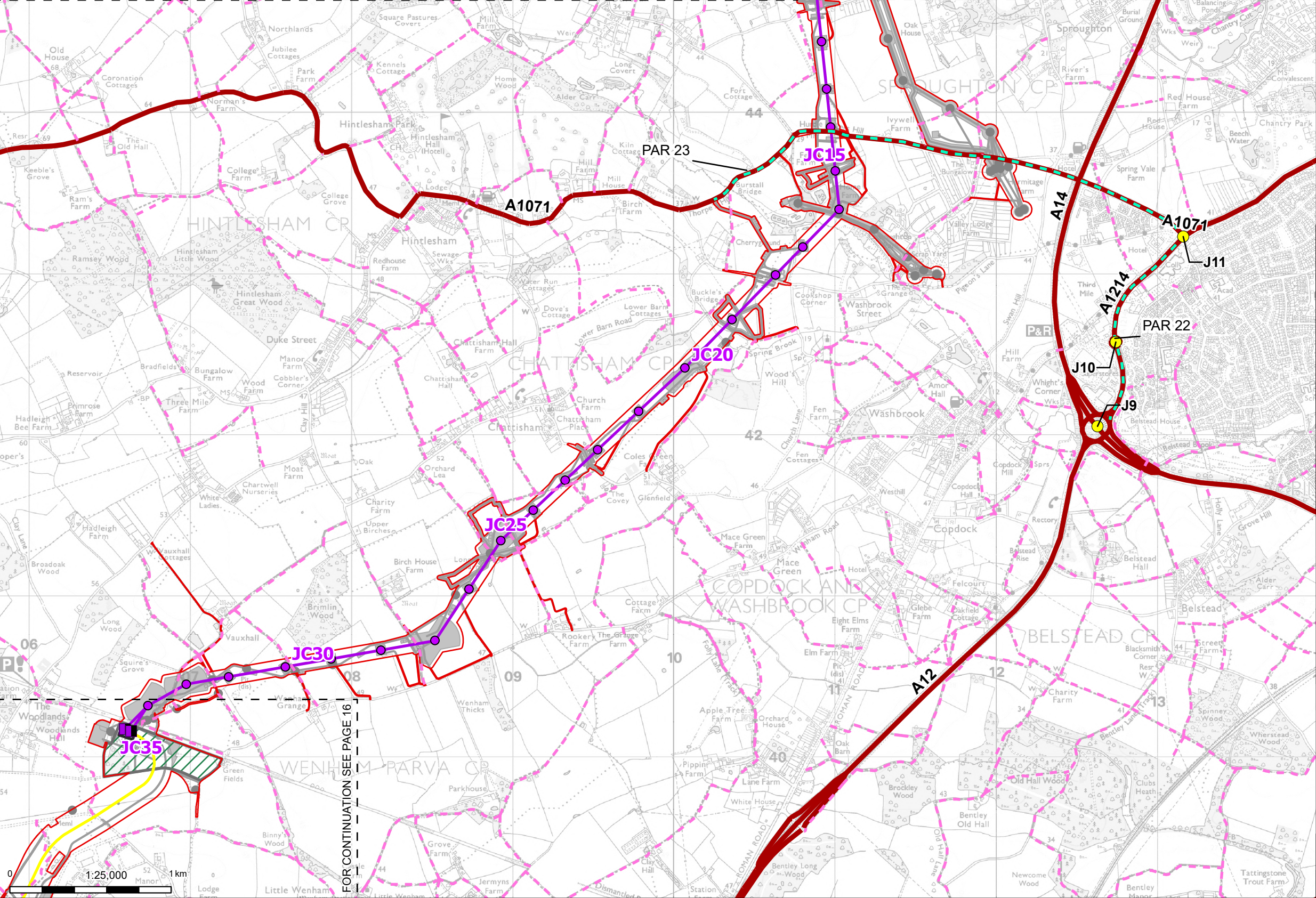
Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00749	Revision: A
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Doc Ref: 6.16.F5

ID	Location	Mitigation
J11	MCC Site 31 A1214 London Rd / A1071	Rationalise Intergreens and add phase delays and signal timing optimisation
J9	MCC Site 29 A14 J55 Copdock Interchange	Signal and cycle time optimisation
J10	MCC Site 30 A1214 London Rd / Scrivener Dr	Signal Optimisation

FOR CONTINUATION SEE PAGE 13



Order limits

Sheet index outline

Project section line

Proposed full line tension gantry

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Bramford Substation

Bramford Substation Extension

Proposed cable sealing end compound (CSEC)

Environmental area

Other temporary and permanent construction and operational works

Junction mitigation

Primary access route

A Road

Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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An inset map showing the project location within the East of England region. It highlights the project area in red, situated between Norwich to the north and London to the south. Other nearby towns like Cambridge, Ipswich, Chelmsford, and Tilbury are also marked.

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

PROJECT:  
nationalgrid Norwich to  
Tilbury

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

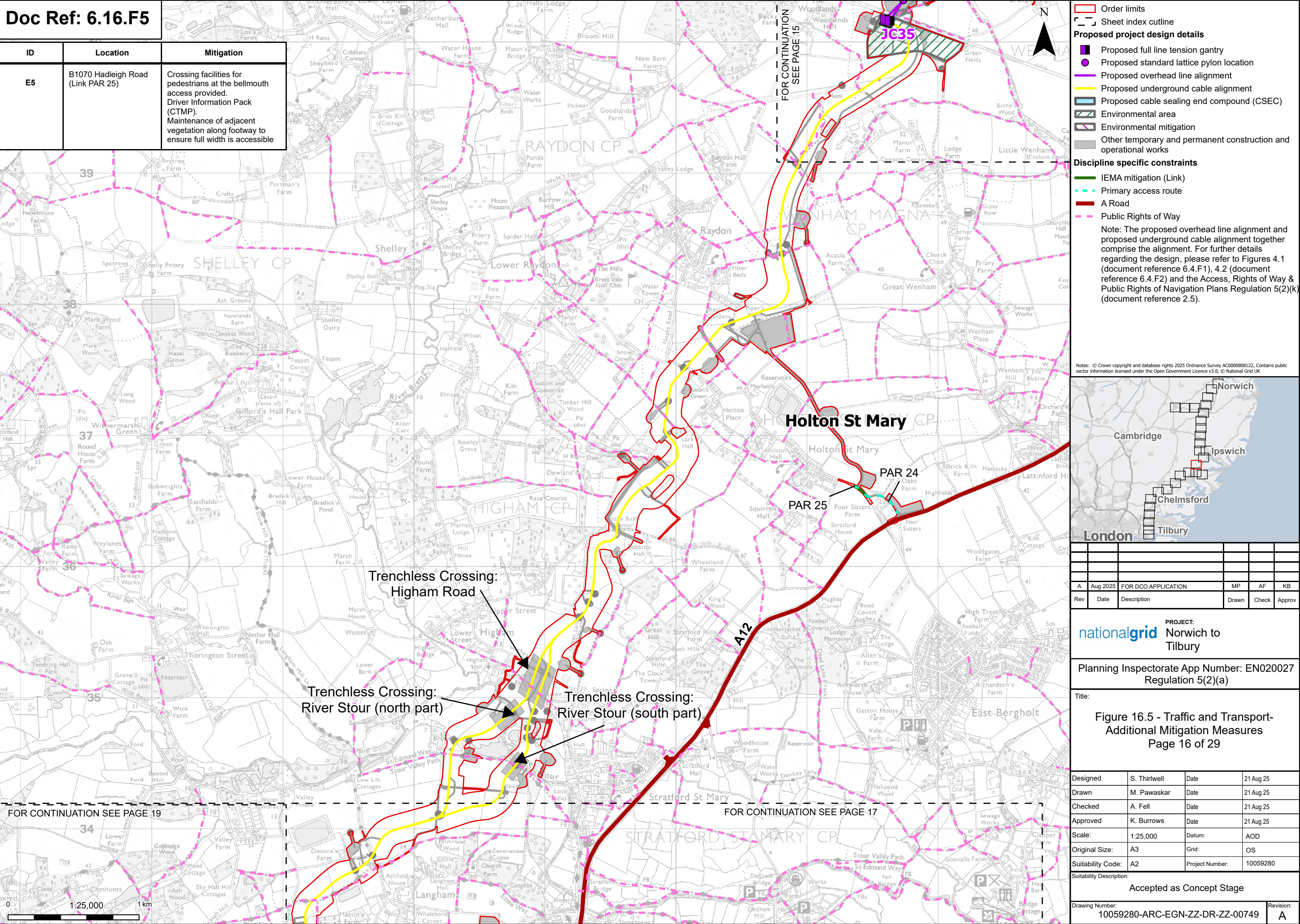
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Figure 16.5 - Traffic and Transport-  
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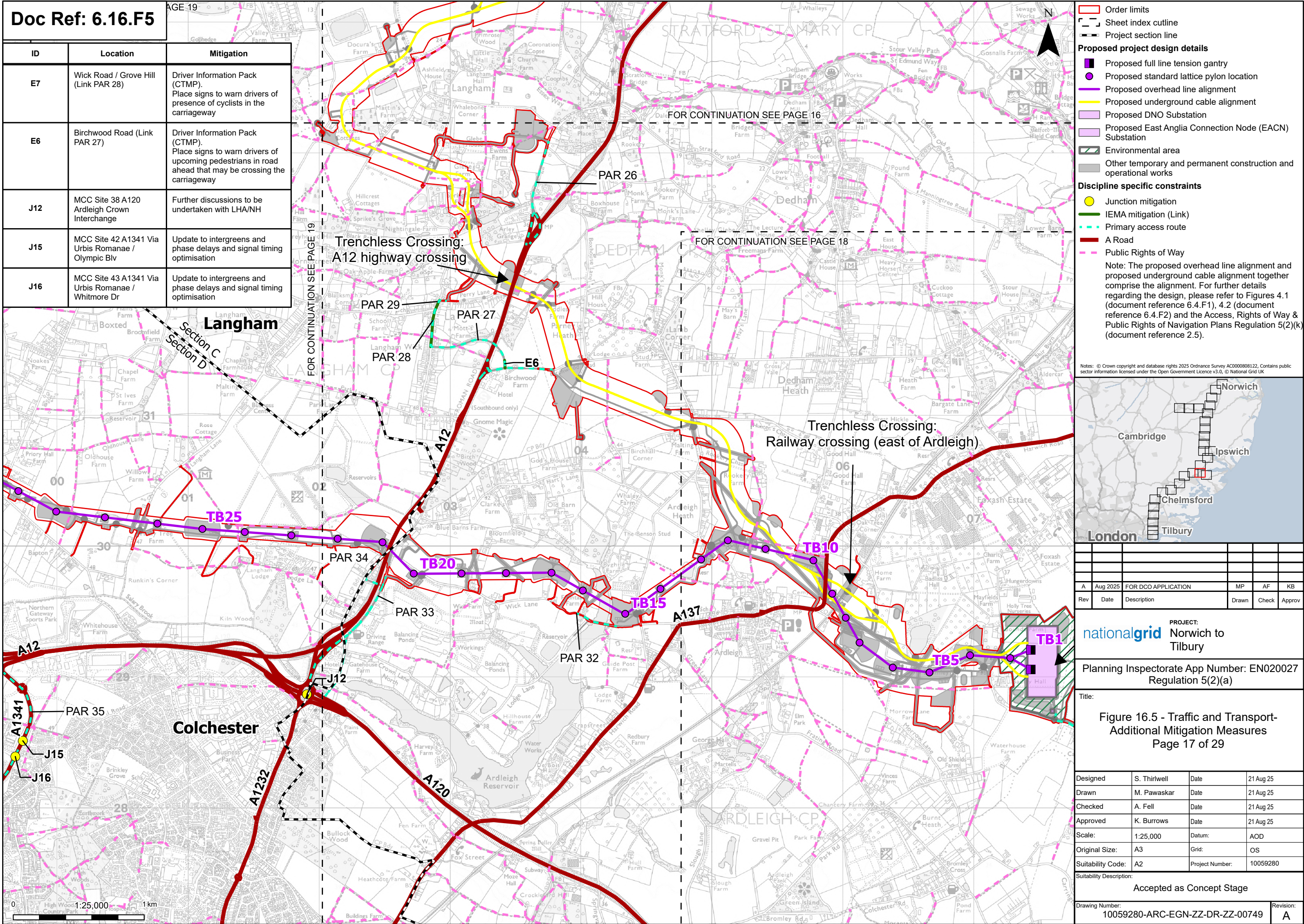
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Accepted as Concept Stage

Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00749	Revision: A
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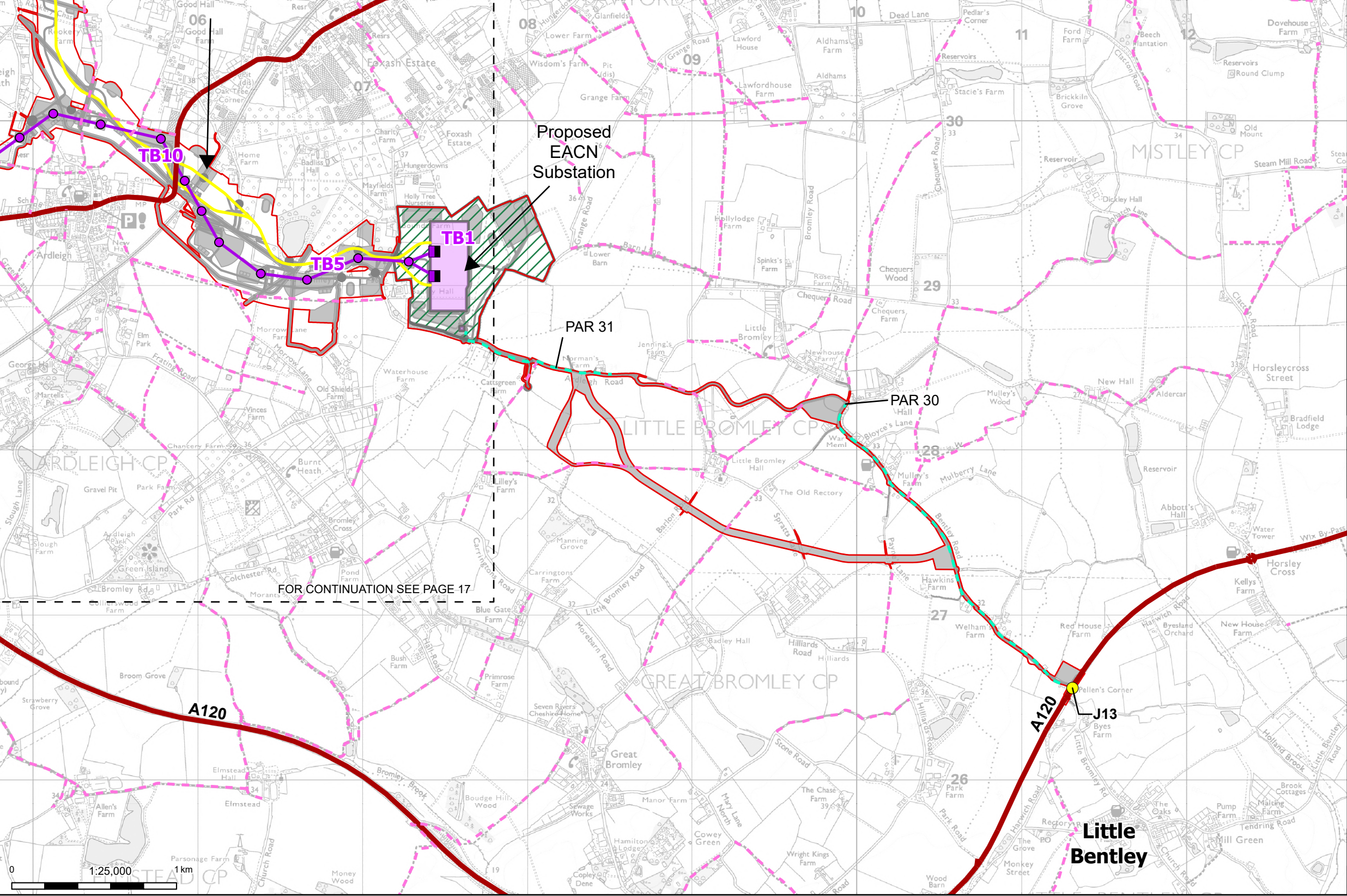




Doc Ref: 6.16.F5

ID	Location	Mitigation
J13	MCC Site 39 A120 Harwich Road / Bentley Road	Mitigation for Norwich to Tilbury and/or wind farms (North Falls / Five Estuaries): widening of junction bellmouth and lengthening of merge taper onto A120 NB mainline. Monitor operation of junction

Trenchless Crossing:  
Railway crossing (east of Ardleigh)



**Order limits**

**Sheet index outline**

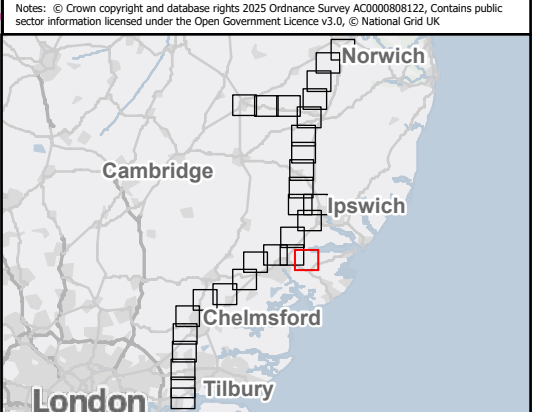
**Proposed project design details**

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

**Discipline specific constraints**

- Junction mitigation
- Primary access route
- A Road
- Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).



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**PROJECT:**  
nationalgrid Norwich to Tilbury

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Regulation 5(2)(a)

Title:  
Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
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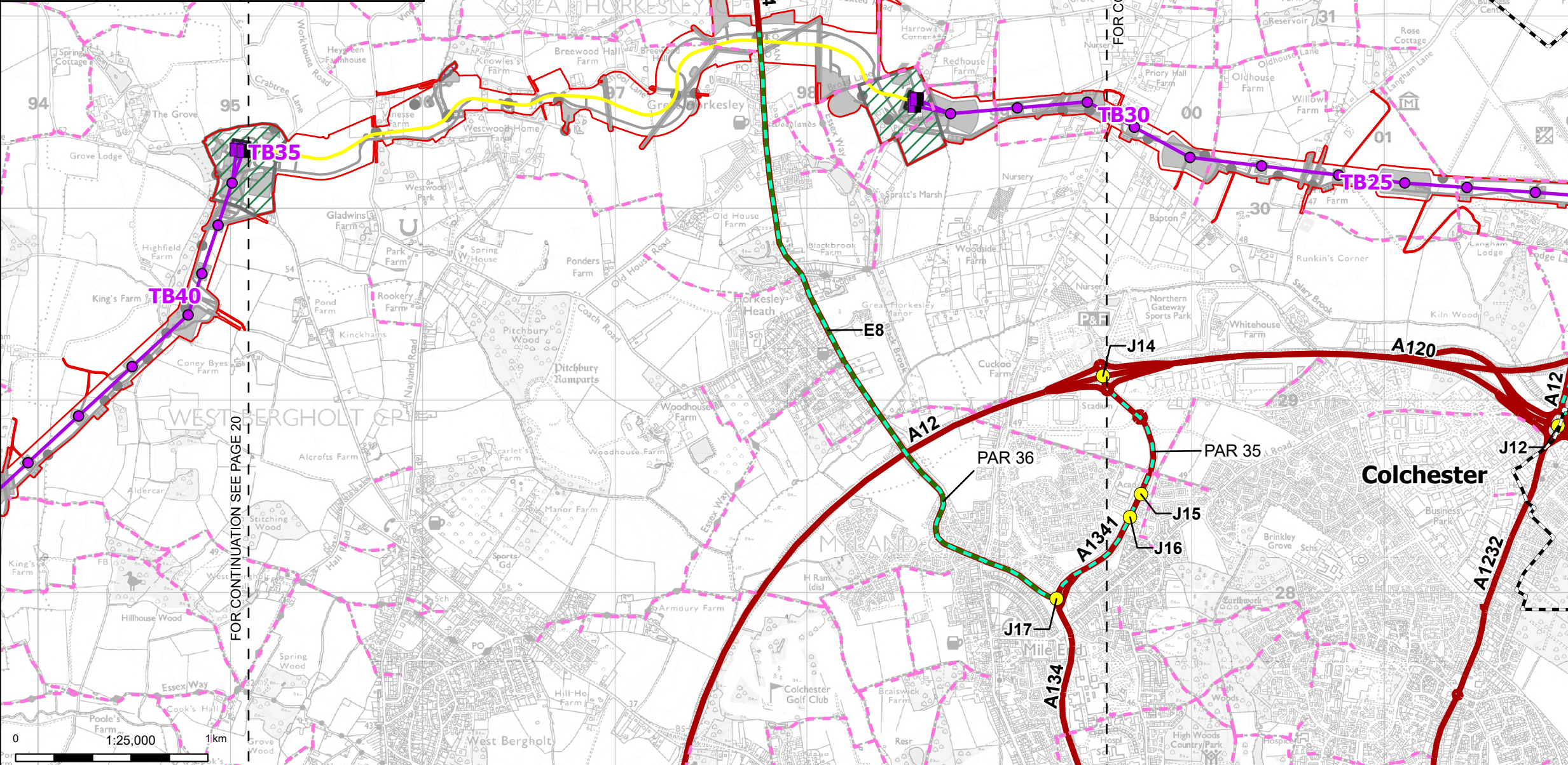
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Accepted as Concept Stage




Drawing Number:  
10059280-ARC-EGN-ZZ-DR-ZZ-00749

Revision:  
A











ID	Location	Mitigation
E8	A134 Northern Approach Road / A134 Wildeve Avenue / A134 Nayland Road / A134 The Causeway (Link PAR 36)	Driver Information Pack (CTMP). Ensure adjacent vegetation is maintained to keep verge clear. Place signs to warn drivers of upcoming pedestrians in road ahead crossing the carriageway
J12	MCC Site 38 A120 Ardleigh Crown Interchange	Further discussions to be undertaken with LHA/NH
J14	MCC Site 40 A12 Severalls Interchange	Monitor operation of junction. Temporary signage to warn general traffic of peak hour congestion. HGV flows outside the peak hours and/ or use Colchester park and ride for staff trips (further discussions to be undertaken with LHA)
J15	MCC Site 42 A1341 Via Urbis Romanae / Olympic Blv	Update to intergreens and phase delays and signal timing optimisation
J16	MCC Site 43 A1341 Via Urbis Romanae / Whitmore Dr	Update to intergreens and phase delays and signal timing optimisation
J17	MCC Site 44 A1341 Via Urbis Romanae / A134 Northern Approach Rd	Update to intergreens and phase delays and signal timing optimisation








-  Order limits
  -  Sheet index outline
  -  Project section line

### Proposed project design details

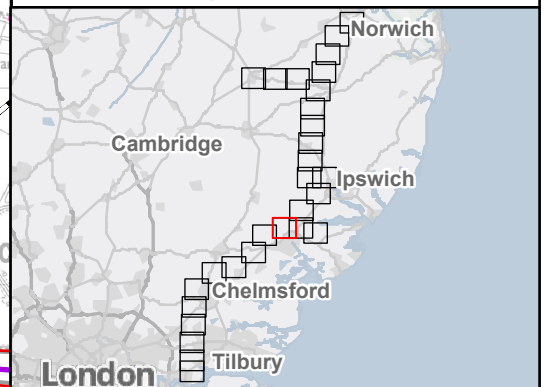
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  -  Proposed standard lattice pylon location
  -  Proposed overhead line alignment
  -  Proposed underground cable alignment
  -  Proposed cable sealing end compound (CSEC)
  -  Environmental area
  -  Environmental mitigation
  -  Other temporary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

### Discipline specific constraints

  -  Junction mitigation
  -  IEMA mitigation (Link)
  -  Primary access route
  -  A Road
  -  Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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**nationalgrid** PROJECT:  
Norwich to  
Tilbury

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

Title:

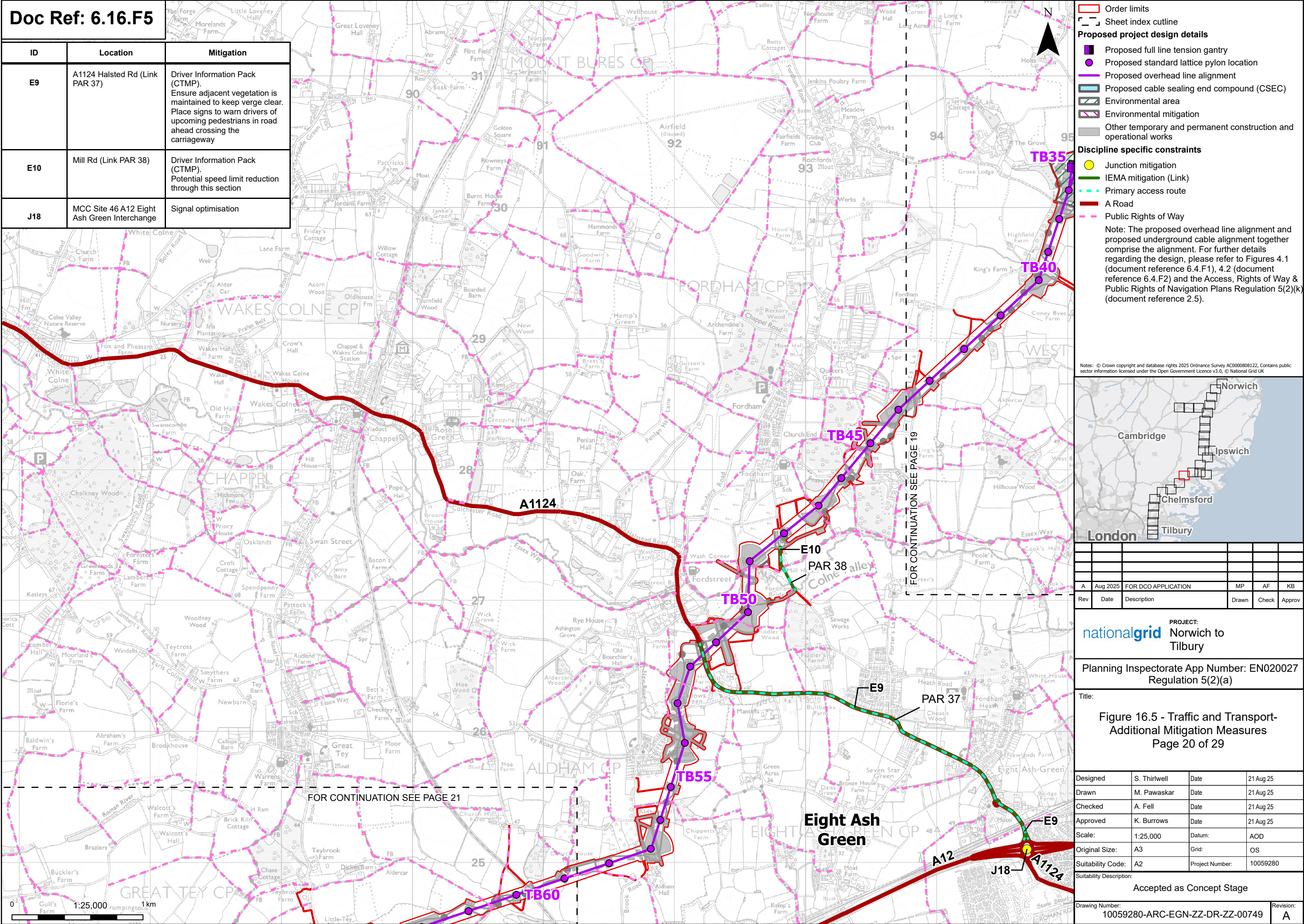
Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
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Drawn	M. Pawaskar	Date	21 Aug 25
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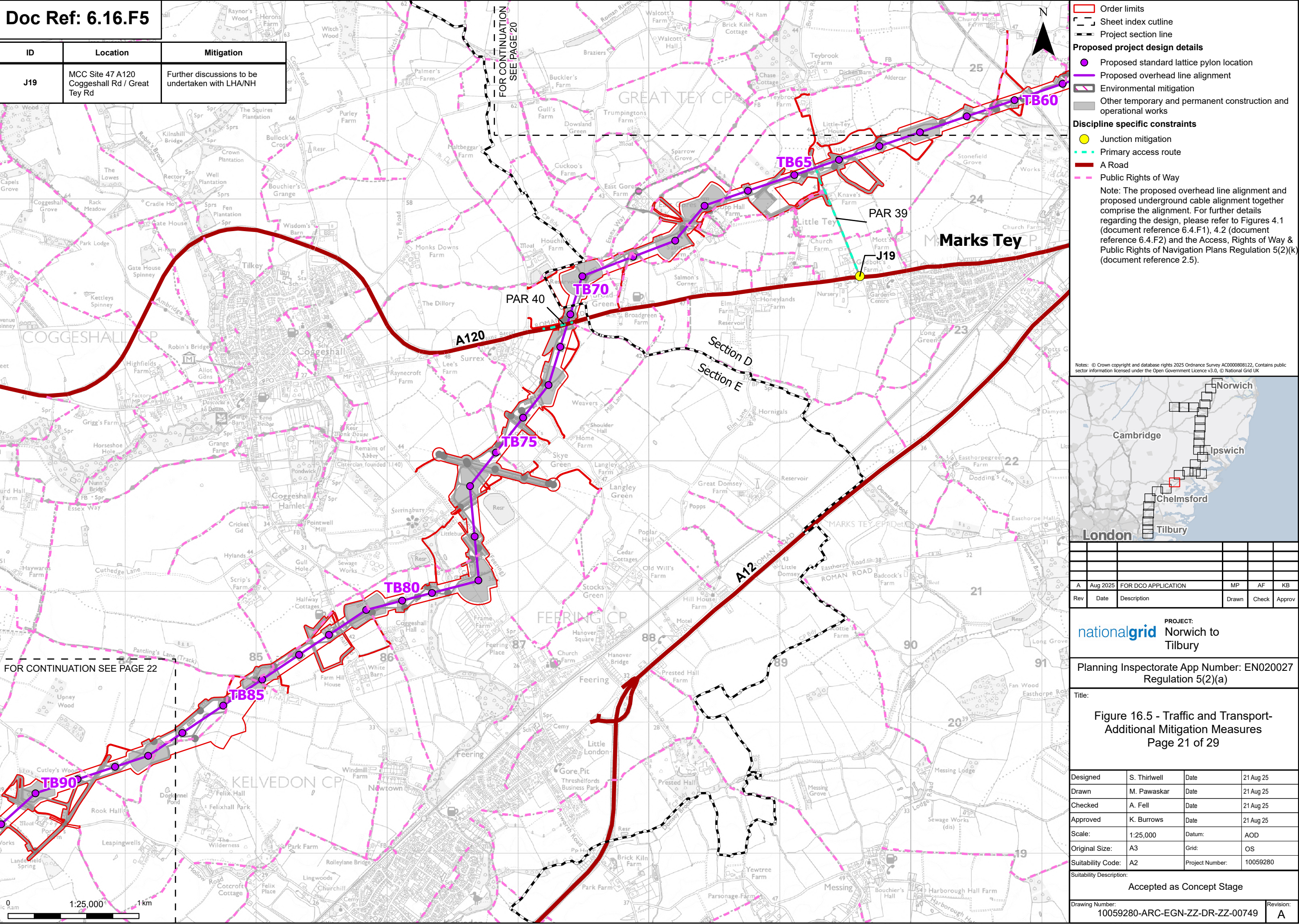
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Drawing Number:	Revision:
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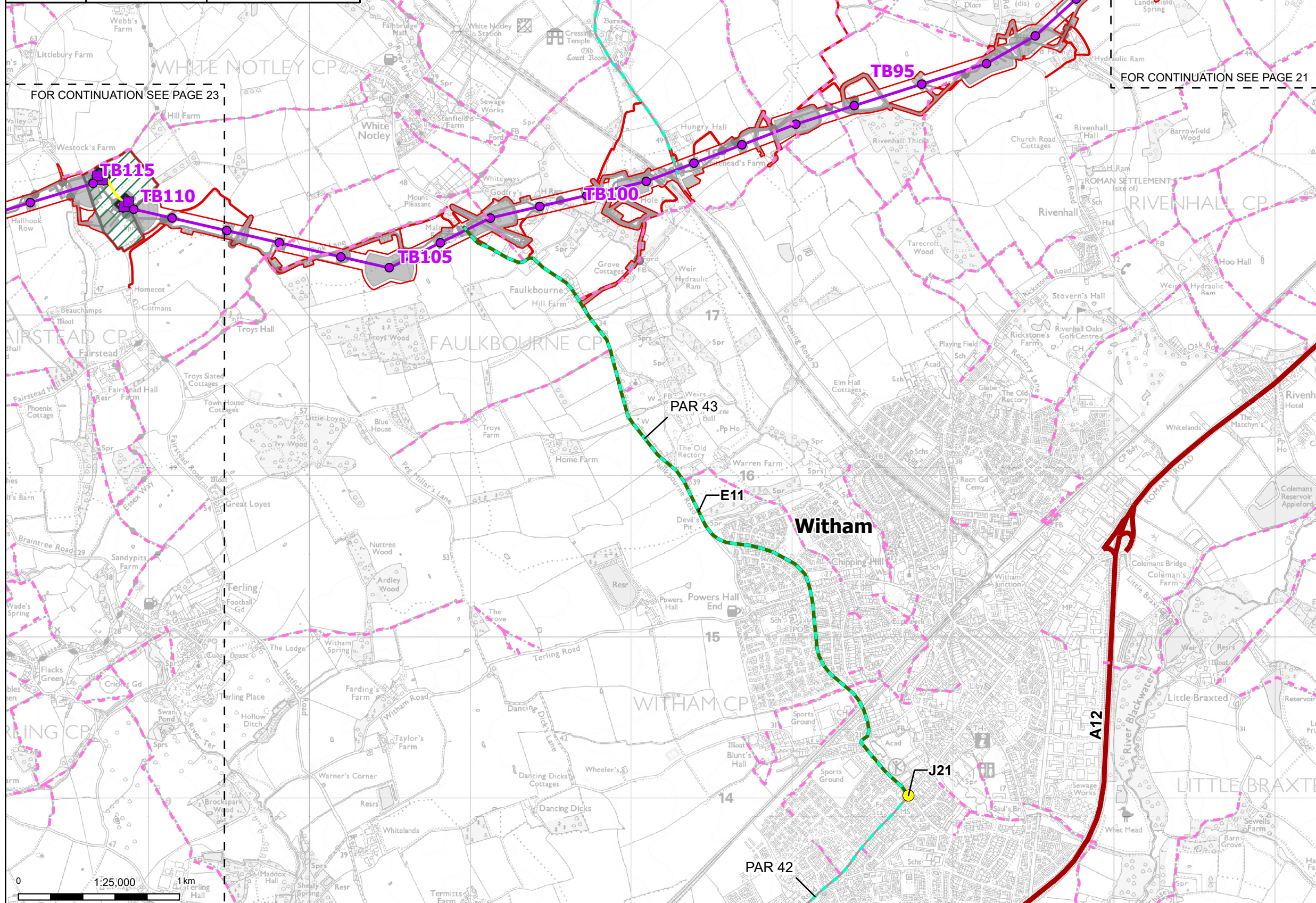

















ID	Location	Mitigation
E11	Spinks Lane / Highfields Road / Spa Road / Flora Road / Faulkbourne Road / Church Hill (Link PAR 43)	Driver Information Pack (CTMP). Ensure adjacent vegetation is maintained to keep verge clear. Place signs to warn drivers of upcoming pedestrians in road ahead crossing the carriageway
J21	MCC Site 50 B1389 Hatfield Road / Spinks Lane	Update to intergreens and phase delays and signal timing optimisation








-  Order limits

 Sheet index outline

**Proposed project design details**

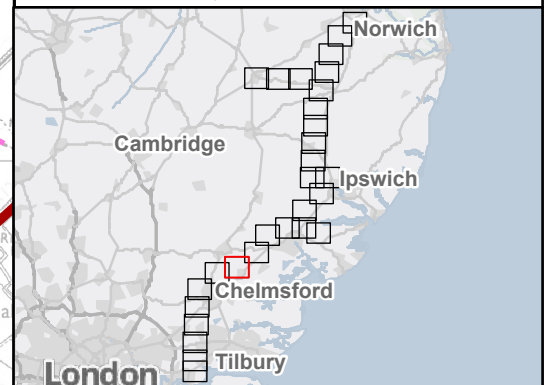
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  -  Proposed standard lattice pylon location
  -  Proposed overhead line alignment
  -  Proposed underground cable alignment
  -  Proposed cable sealing end compound (CSEC)
  -  Environmental area
  -  Other temporary and permanent construction and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

**Discipline specific constraints**

  -  Junction mitigation
  -  IEMA mitigation (Link)
  -  Primary access route
  -  A Road
  -  Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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**nationalgrid** PROJECT: Norwich to Tilbury

Planning Inspectorate App Number: EN020027  
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Title:

Figure 16.5 - Traffic and Transport-  
Additional Mitigation Measures  
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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
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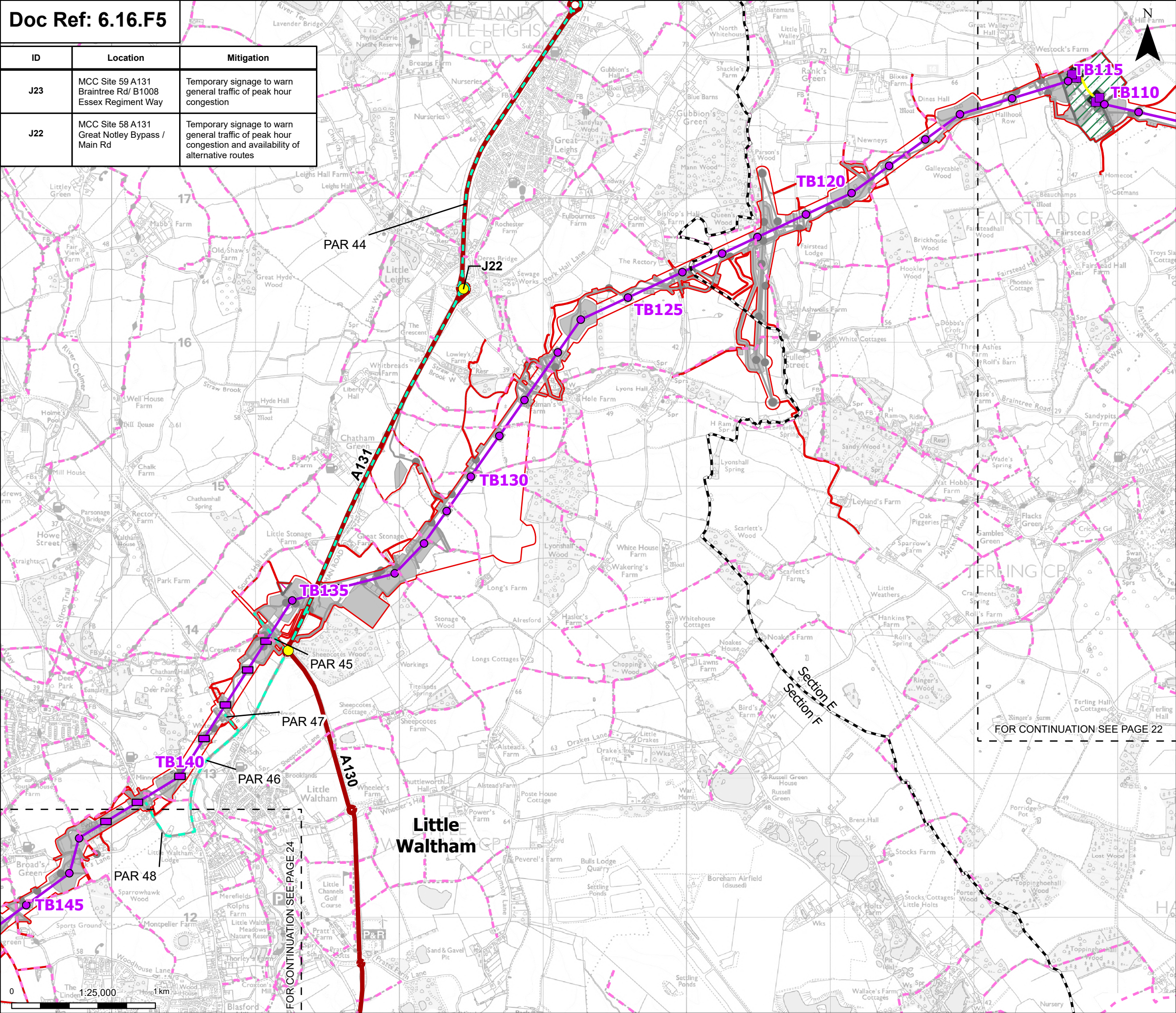
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EGN-ZZ-DR-ZZ-00749	Revision: A
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Doc Ref: 6.16.F5

ID	Location	Mitigation
J23	MCC Site 59 A131 Braintree Rd/ B1008 Essex Regiment Way	Temporary signage to warn general traffic of peak hour congestion
J22	MCC Site 58 A131 Great Notley Bypass / Main Rd	Temporary signage to warn general traffic of peak hour congestion and availability of alternative routes



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

Junction mitigation

Primary access route

A Road

Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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PROJECT:

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**Figure 16.5 - Traffic and Transport-  
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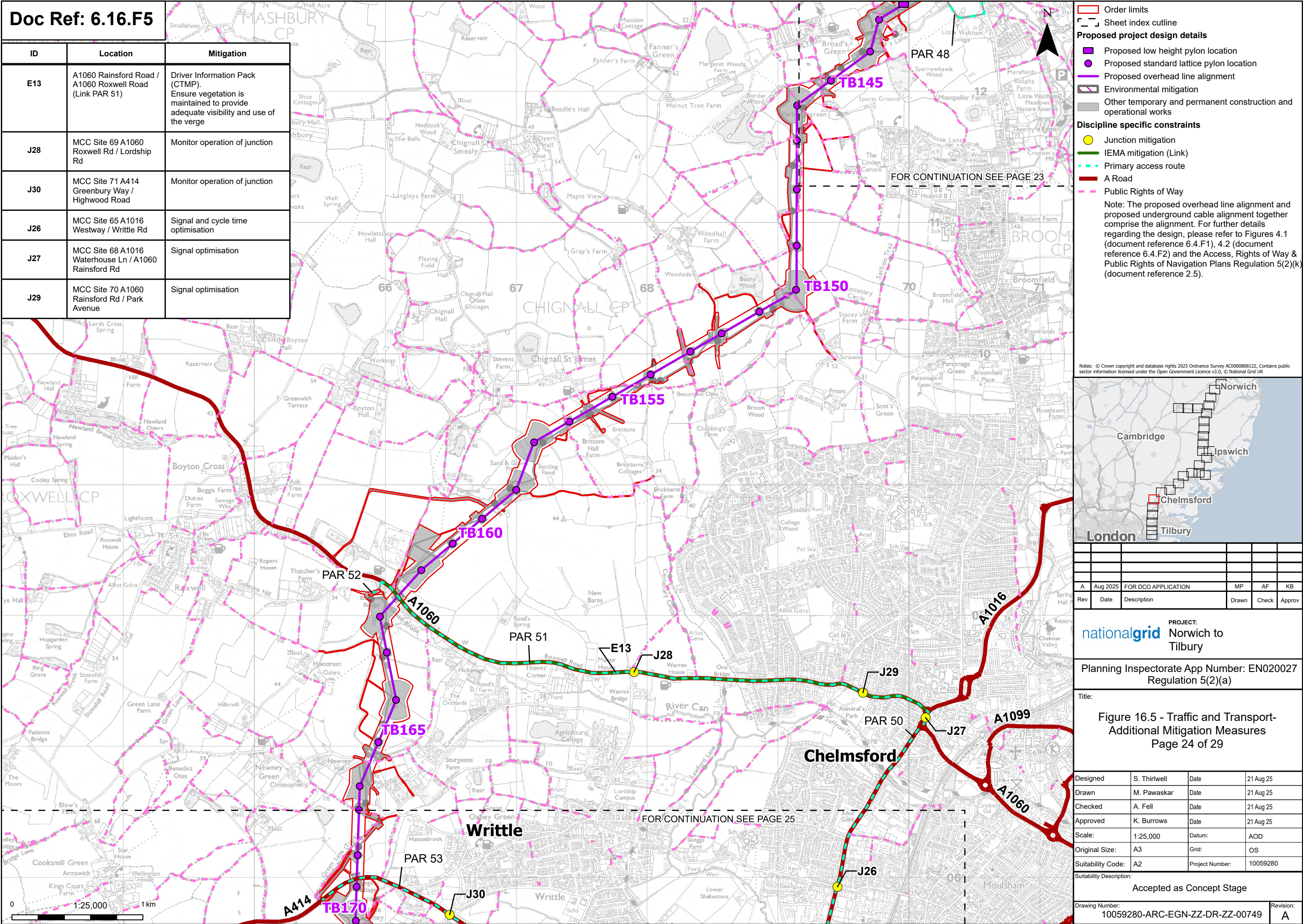
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

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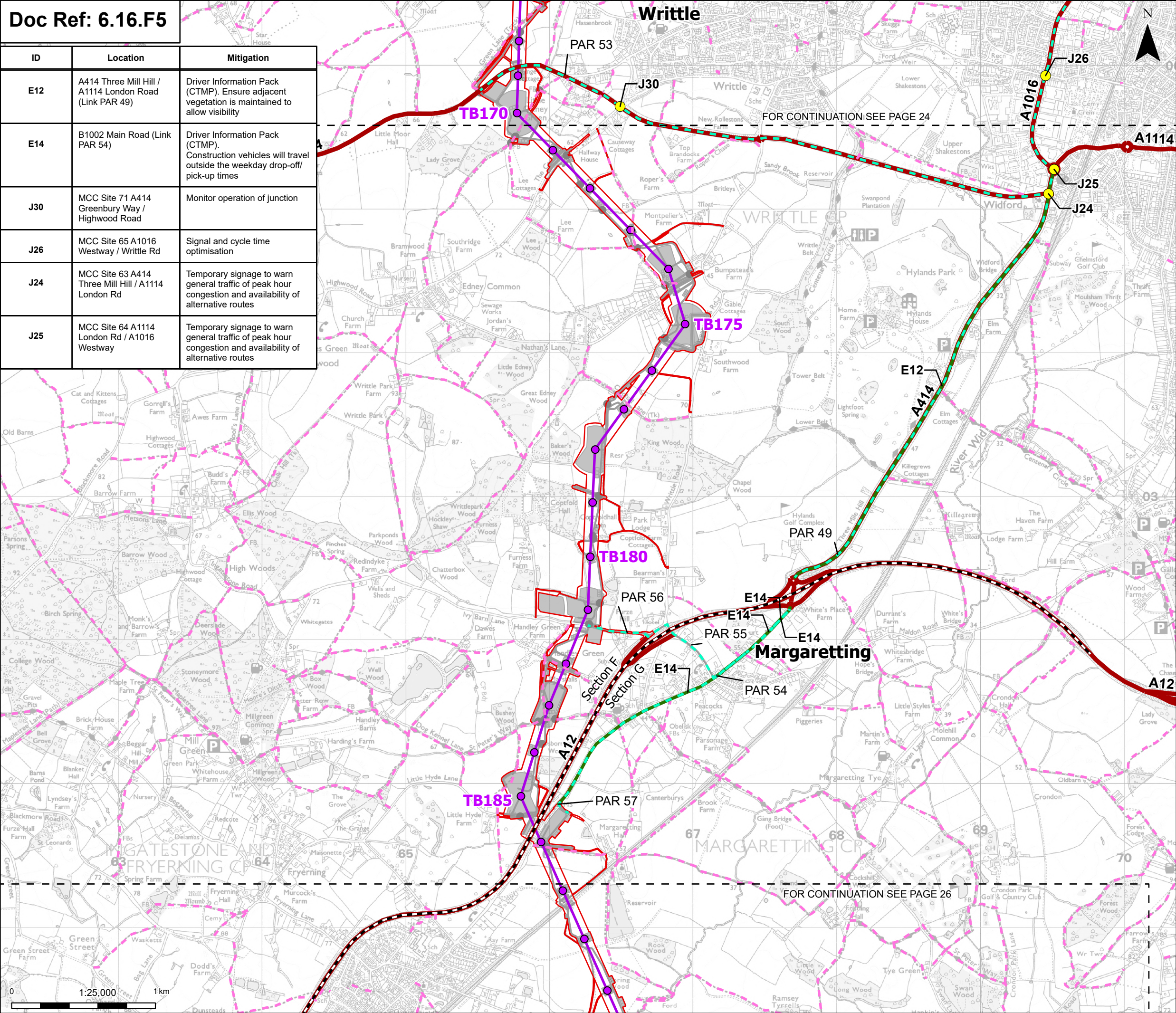






Doc Ref: 6.16.F5

ID	Location	Mitigation
E12	A414 Three Mill Hill / A1114 London Road (Link PAR 49)	Driver Information Pack (CTMP). Ensure adjacent vegetation is maintained to allow visibility
E14	B1002 Main Road (Link PAR 54)	Driver Information Pack (CTMP). Construction vehicles will travel outside the weekday drop-off/ pick-up times
J30	MCC Site 71 A414 Greenbury Way / Highwood Road	Monitor operation of junction
J26	MCC Site 65 A1016 Westway / Writtle Rd	Signal and cycle time optimisation
J24	MCC Site 63 A414 Three Mill Hill / A1114 London Rd	Temporary signage to warn general traffic of peak hour congestion and availability of alternative routes
J25	MCC Site 64 A1114 London Rd / A1016 Westway	Temporary signage to warn general traffic of peak hour congestion and availability of alternative routes



Order limits

Sheet index outline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

Junction mitigation

IEMA mitigation (Link)

Primary access route

A Road

Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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PROJECT:

**Norwich to Tilbury**

Planning Inspectorate App Number:

EN020027 Regulation 5(2)(a)

Title:  
**Figure 16.5 - Traffic and Transport- Additional Mitigation Measures**  
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Accepted as Concept Stage

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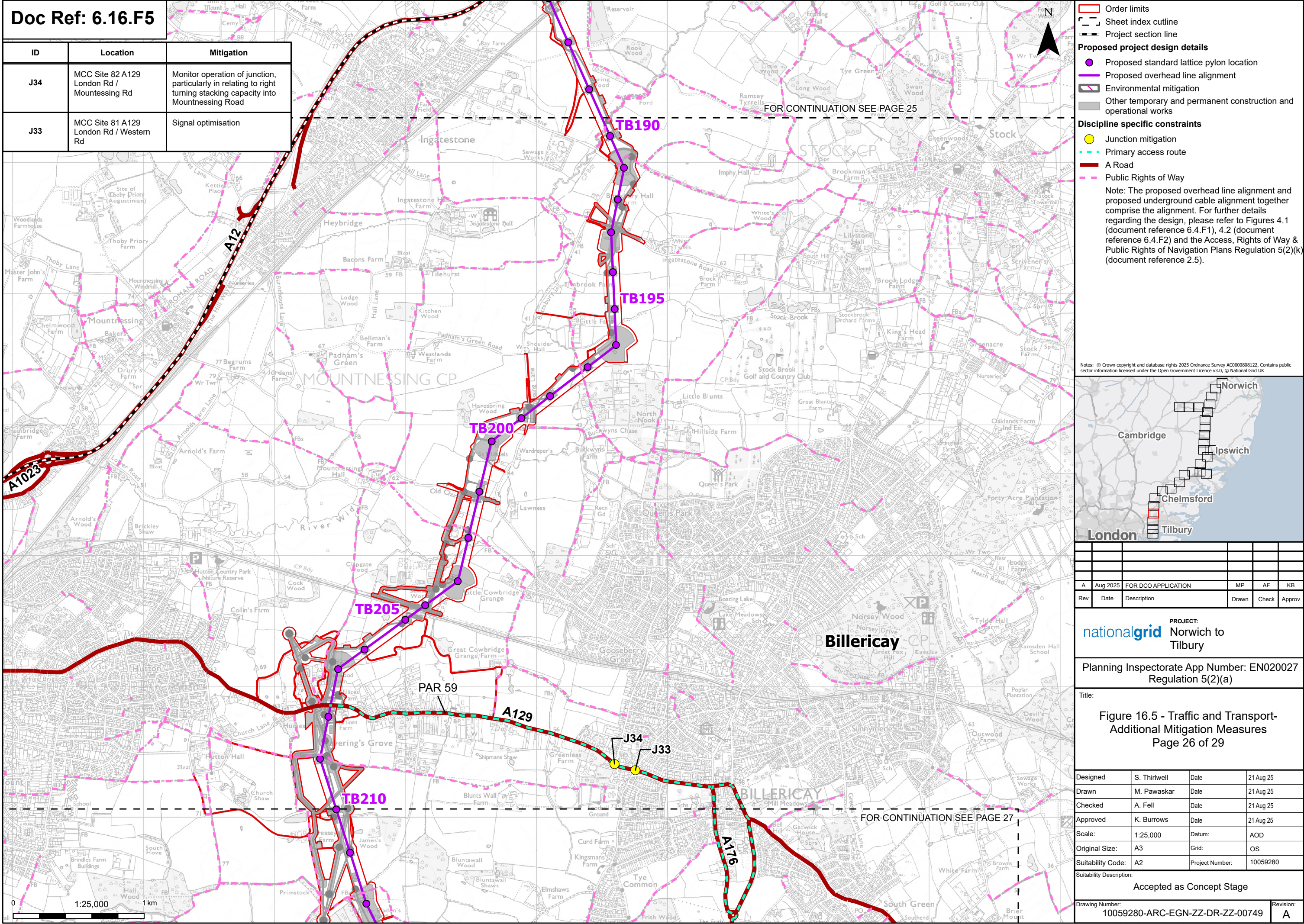
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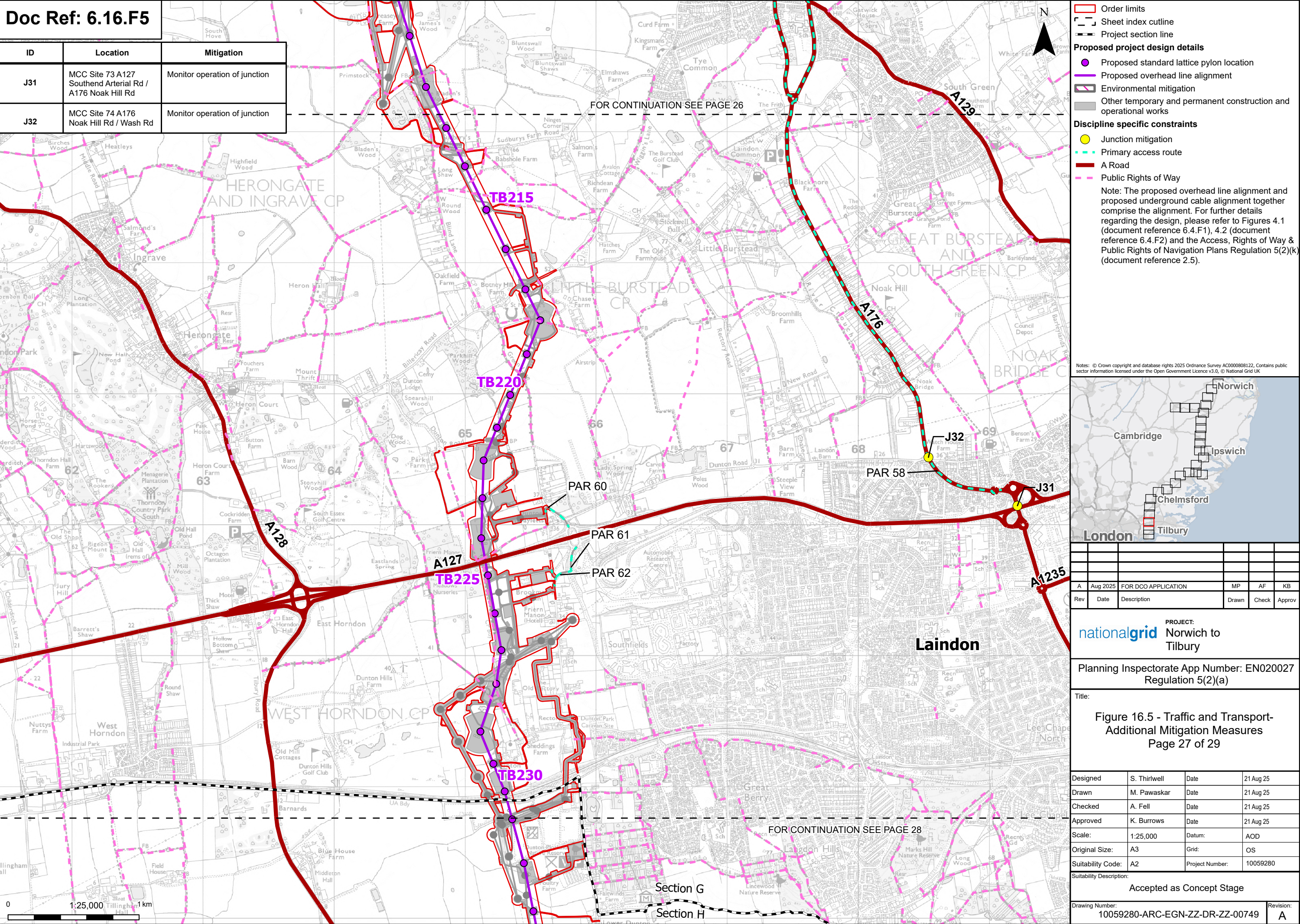
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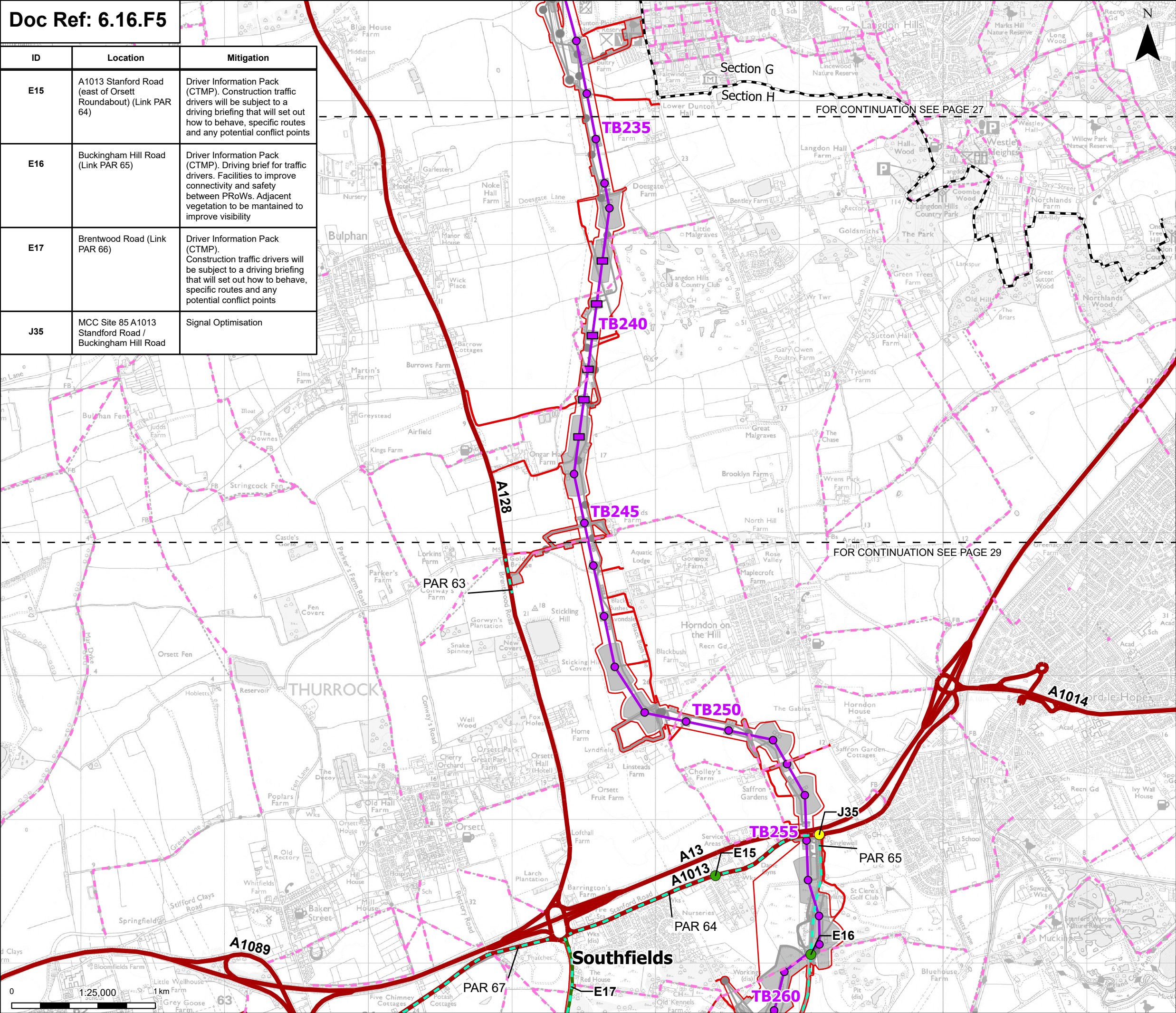






Doc Ref: 6.16.F5

ID	Location	Mitigation
E15	A1013 Stanford Road (east of Orsett Roundabout) (Link PAR 64)	Driver Information Pack (CTMP). Construction traffic drivers will be subject to a driving briefing that will set out how to behave, specific routes and any potential conflict points
E16	Buckingham Hill Road (Link PAR 65)	Driver Information Pack (CTMP). Driving brief for traffic drivers. Facilities to improve connectivity and safety between PRowWs. Adjacent vegetation to be maintained to improve visibility
E17	Brentwood Road (Link PAR 66)	Driver Information Pack (CTMP). Construction traffic drivers will be subject to a driving briefing that will set out how to behave, specific routes and any potential conflict points
J35	MCC Site 85 A1013 Stanford Road / Buckingham Hill Road	Signal Optimisation



Order limits

Sheet index outline

Project section line

Proposed project design details

Proposed low height pylon location

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

IEMA mitigation

Junction mitigation

IEMA mitigation (Link)

Primary access route

A Road

Public Rights of Way

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), 4.2 (document reference 6.4.F2) and the Access, Rights of Way & Public Rights of Navigation Plans Regulation 5(2)(k) (document reference 2.5).

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PROJECT:  
nationalgrid Norwich to Tilbury

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

Title:  
Figure 16.5 - Traffic and Transport-  
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