

# Lower Thames Crossing 2.5 General Arrangement Plans

## Volume C (sheets 21 to 49)

APFP Regulation 5(2)(o)

Infrastructure Planning (Applications:  
Prescribed Forms and Procedure)  
Regulations 2009

Volume 2

**DATE: October 2022**

Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/2.5

**VERSION: 1.0**

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# Lower Thames Crossing

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# 1 Introduction

- 1.1.1 This document is submitted to the Planning Inspectorate on behalf of the Secretary of State in relation to an application made by National Highways (the Applicant) under section 37 of the Planning Act 2008.
- 1.1.2 The application is for the grant of development consent for the A122 Lower Thames Crossing. Should development consent be granted, the draft A122 (Lower Thames Crossing) Development Consent Order (Application Document 3.1) (the draft Order) will be made by the Secretary of State (subject to any modifications considered appropriate).
- 1.1.3 This document comprises part of the suite of application documentation and is included in the application to comply with Regulations 5(2)(o) and 5(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009, which require:
- 5(2)(o) 'any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping.*
- 5(4) Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets.'*
- 1.1.4 The purpose of the General Arrangement Plans is to illustrate:
- the proposed highway works, including embankment and cutting earthworks and structures, including new or modified bridges and retaining walls;
  - the routes proposed for new or improved rights of way; the location of new lighting, traffic signs and gantries;
  - proposed above ground drainage features, including the location of culverts and wetlands and infiltration basins;
  - the tunnels and the tunnel cross passages;
  - areas of environmental works that show ecological habitat creation and receptor sites for protected species;
  - areas for open space provision and replacement land;
  - the location and extent of proposed new hedgerows, highways and ecological fencing and acoustic barriers;
  - the location of grassland and woodland planting areas;
  - the location and extent of utilities diversions for overhead high voltage electricity cables, underground multiutility works and high- and medium-pressure gas and the location of permanent utility facilities or substation.

- 1.1.5 The information shown on the plans is commensurate with the preliminary design status of the Project and the detailed design will be in accordance with the extent of the defined limits of deviation provided and any approval required under the DCO requirements set out in Schedule 2 of the draft Order (Application Document 3.1).
- 1.1.6 The lateral limits of deviation for the works are shown in the Works Plans (Application Document 2.6) and in the Tunnel Limits of Deviation (Application Document 2.15); article 6 of the draft Order establishes the vertical limits of deviation. Further information about the limits of deviation is provided in the Introduction to the Application (Application Document 1.3).
- 1.1.7 Further details on the height of proposed bridges, structures and embankments and the depth of proposed cuttings, together with cross-sections of structures, longitudinal profiles and typical details for specific design features are provided in the Engineering Drawings and Sections (Application Document 2.9) and in the Structures Plans (Application Document 2.13).
- 1.1.8 To ensure sufficient detail and clarity of information, the General Arrangement Plans (sheets 1 to 49) have been prepared at a scale of 1:2500. The key plan uses a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project can be represented on a single sheet plan.
- 1.1.9 The Applicant has adopted the same approach for the General Arrangement Plans as has been used for the following:
- a. Land Plans (Application Document 2.2)
  - b. Crown Land Plans (Application Document 2.3)
  - c. Special Category Land Plans (Application Document 2.4)
  - d. Works Plans (Application Document 2.6)
  - e. Rights of Way and Access Plans (Application Document 2.7)
  - f. Streets Subject to Temporary Restrictions of Use Plans (Application Document 2.8)
  - g. Traffic Regulation Measures Plans (Application Document 2.10)
  - h. Drainage Plans (Application Document 2.16)
  - i. Temporary Works Plans (Application Document 2.17)
  - j. Hedgerow And Tree Preservation Order Plans (Application Document 2.18)
- 1.1.10 The information contained on each sheet of the General Arrangement Plans corresponds with the information shown on each sheet of the aforementioned sets. This is intended to help interested parties understand the inter-relationship between the different sets of plans and to help illustrate the design of the Project more clearly.

- 1.1.11 This plan set uses a consistent key applicable to the plan set as a whole, rather than being tailored to each individual sheet. This means that there may be some items shown in the key that are not on a given sheet.
- 1.1.12 The General Arrangement Plans show the Order Limits and the relevant local authority boundaries for clarity. In this plan set, ‘the Order Limits’ mean the limits of lands to be acquired or used, permanently or temporarily, within which the authorised development may be carried out (see article 2 of the draft Order (Application 3.1)).
- 1.1.13 As this document has been informed by and is part of the application documentation it should be read alongside the other application documents. In particular, the plans should be read alongside Schedule 1 of the draft Order (Application Document 3.1).
- 1.1.14 To ensure that the file size of this document does not exceed the 50MB limit prescribed by the Planning Inspectorate, the set has been split into three volumes: volume A contains the key plan, volume B the initial sheets 1 to 20 and volume C contains the following sheets, 21 to 49.

## 2 Schedule of Plans included in this application document

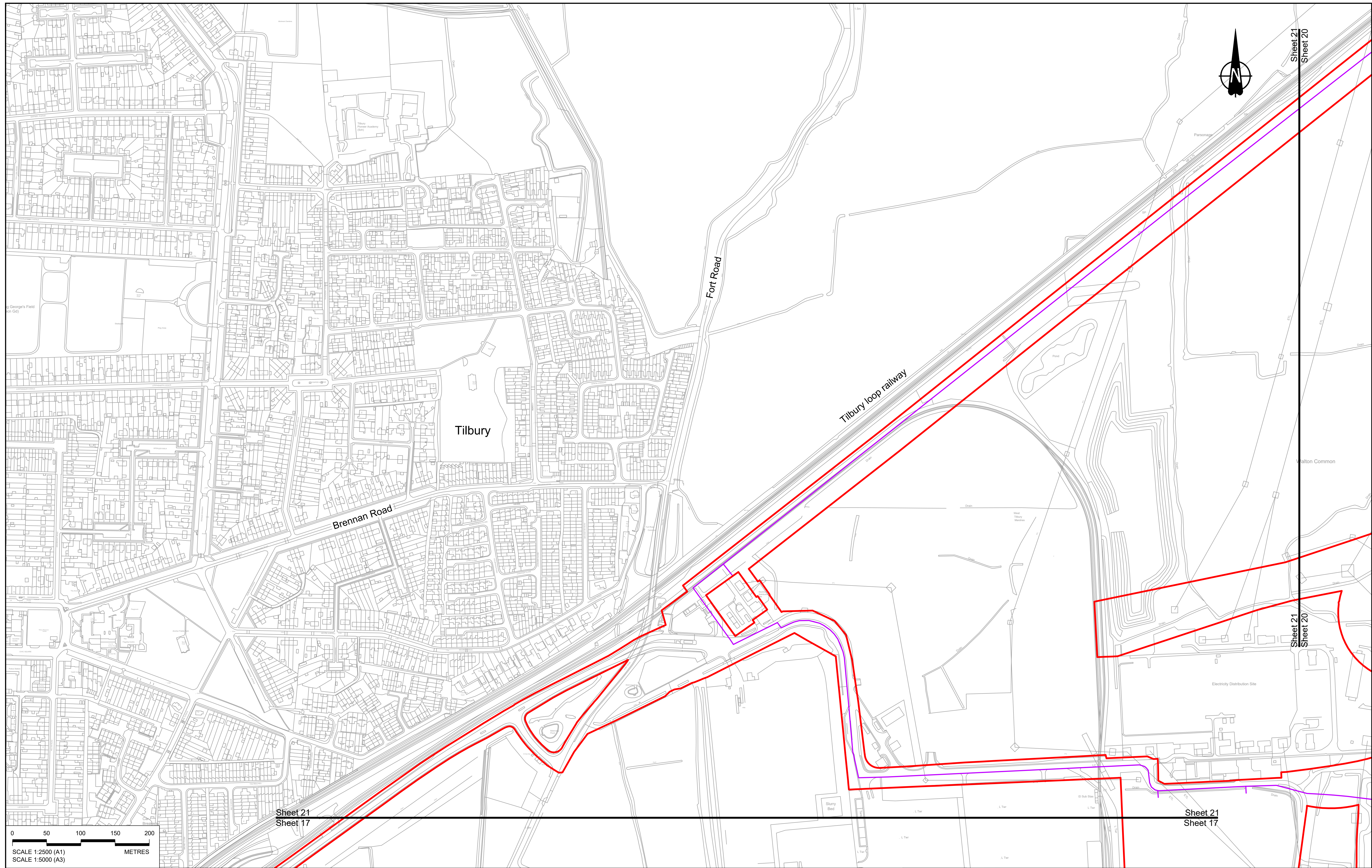
Document Title	Document Number	Revision
GENERAL ARRANGEMENT REGULATION 5(2)(o) KEY PLAN	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 1	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 3	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 5	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 38	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 49	TR010032/APP/2.5	P01





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

**NOTES:**  
 1. The proposed arrangement of the Scheme is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).  
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 3. For Environmental details refer to the Environmental Masterplan (application document reference TR010032/APP/6.2 Fig 2.4) and Environmental Constraints Plan (application document reference TR010032/APP/6.2 Fig 2.3) and associated drawings and documents.

**BOUNDARIES**

	Order Limits
	Local Authority boundary
	Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

	New carriageway
	Overbridge
	Underpass

	Culvert
	Traffic sign
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

**PROPOSED UTILITIES**

	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground multiutility alignment
	Diversion ties into existing network
	Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

**FLOOD COMPENSATION AREA**

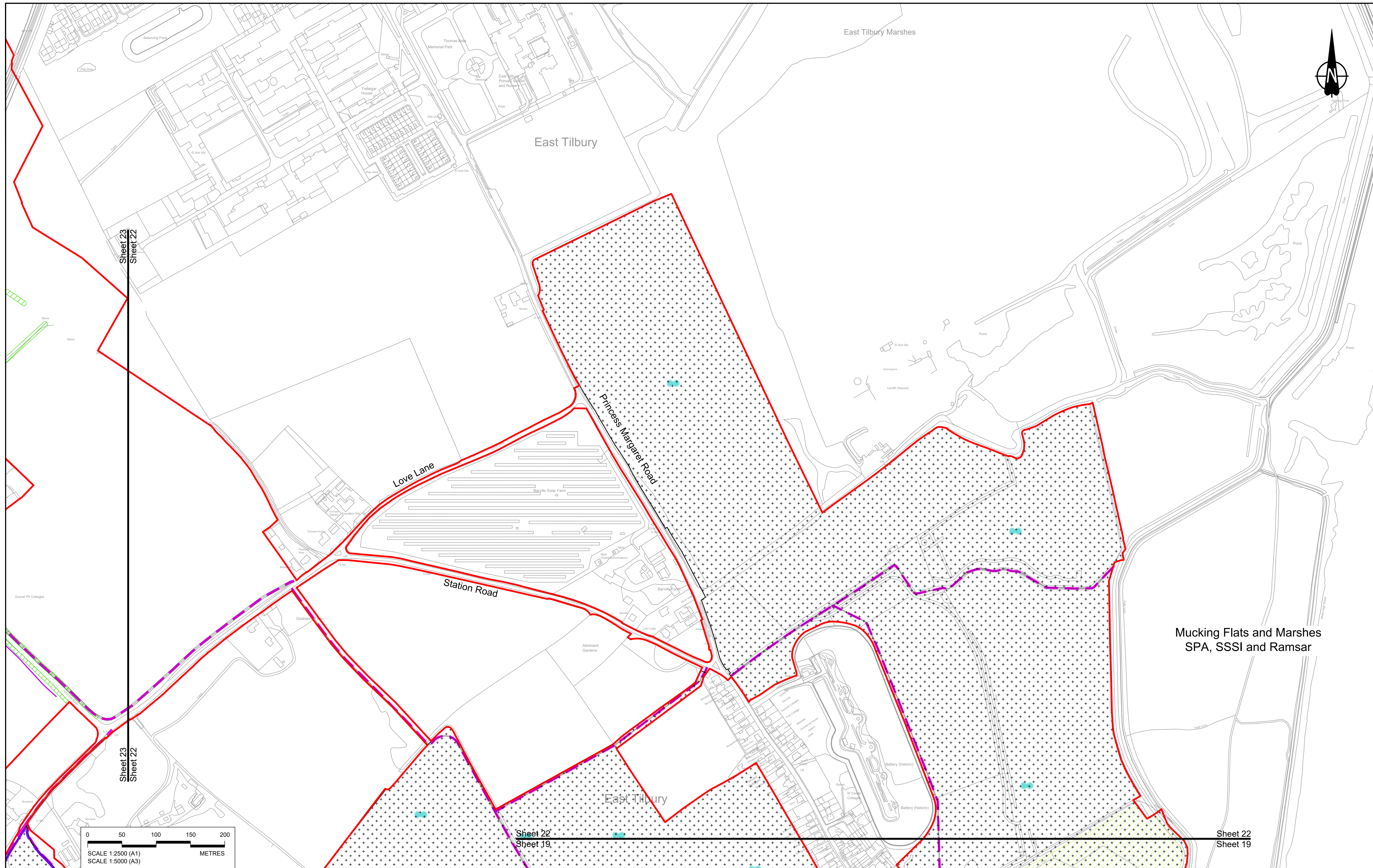
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
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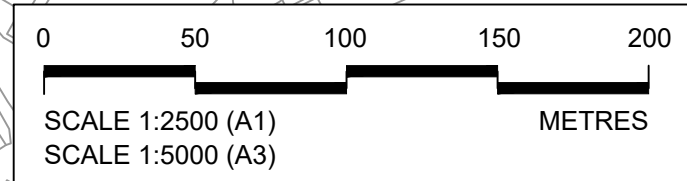


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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED UTILITIES**

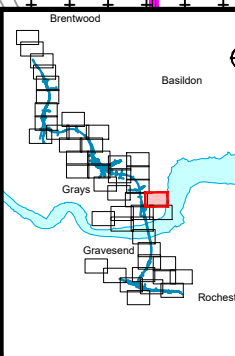
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**FLOOD COMPENSATION AREA**

- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

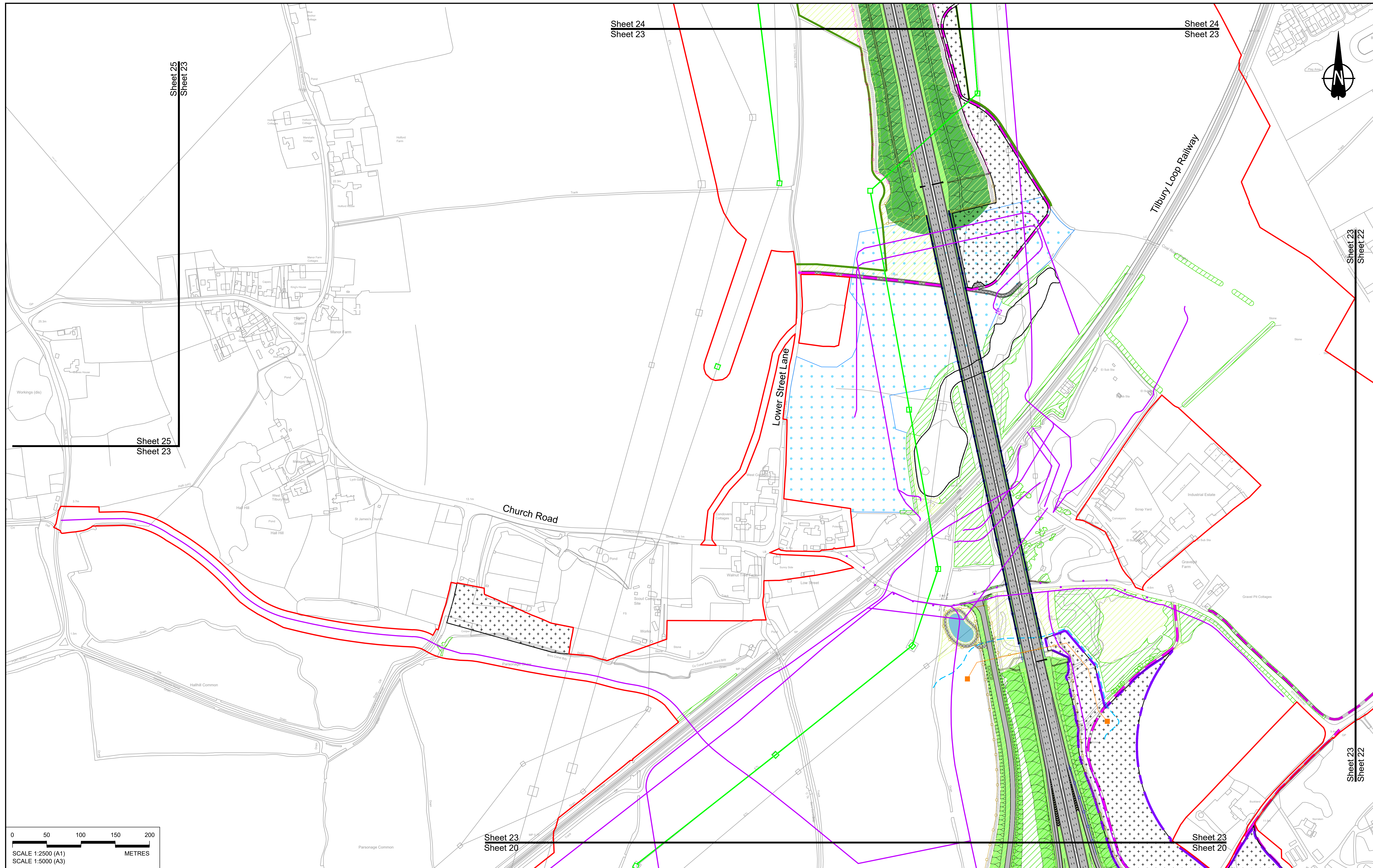


Client: **national highways**

Project: **LOWER THAMES CROSSING**

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Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 22</b>				
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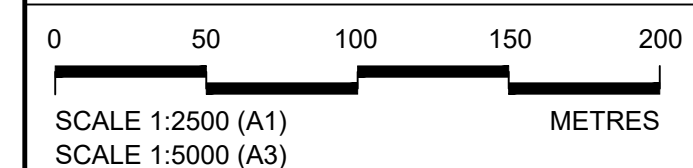
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

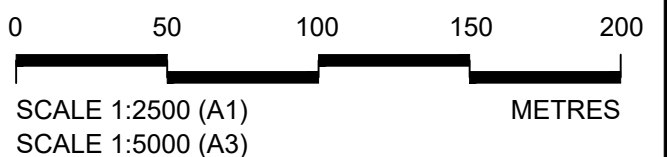
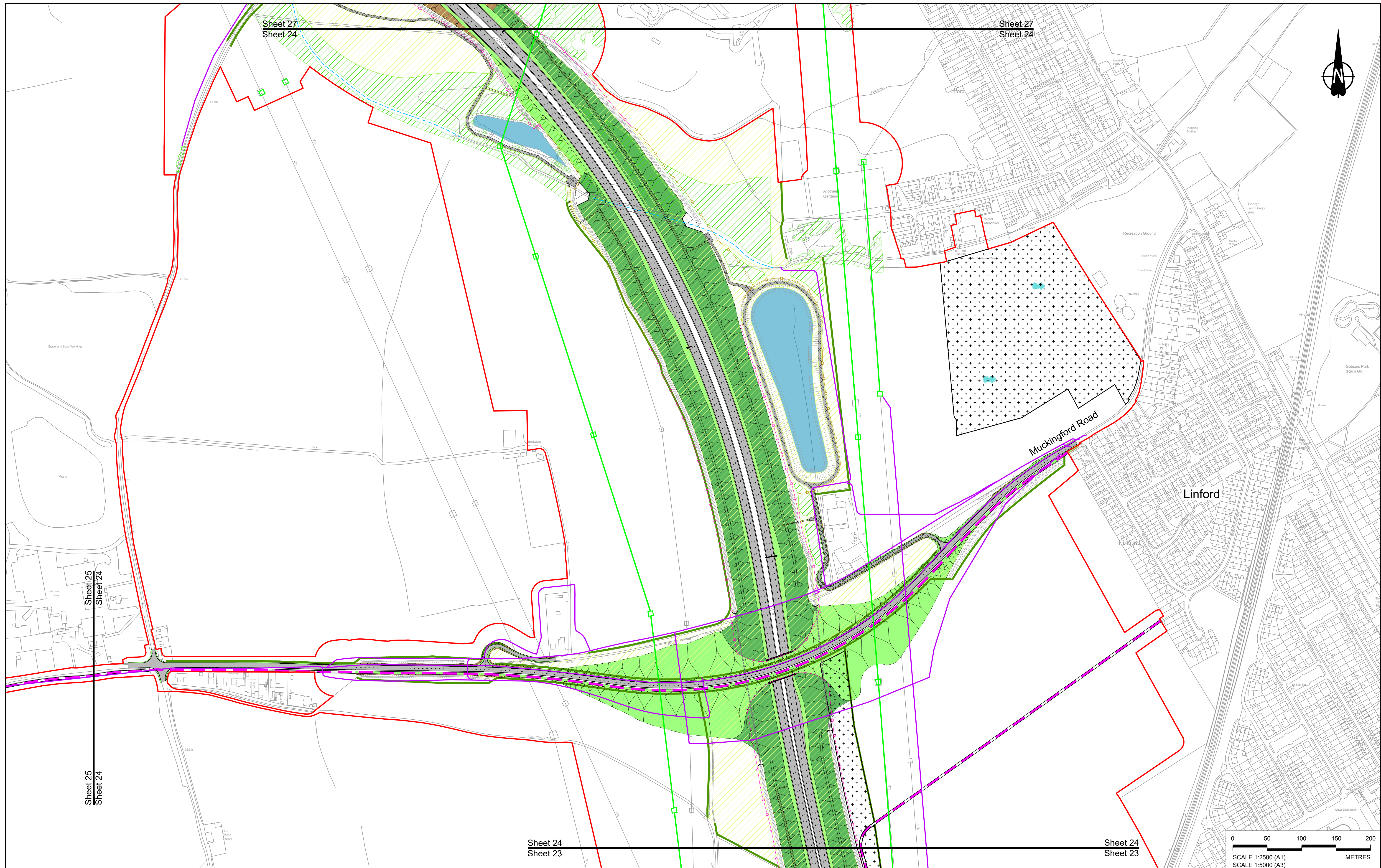
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 23</b>		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10020		
Scale	1:2500		





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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

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- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

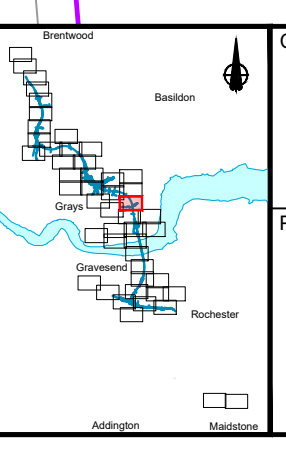
**PROPOSED UTILITIES**

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- Underground multiutility alignment
- Division ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

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- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

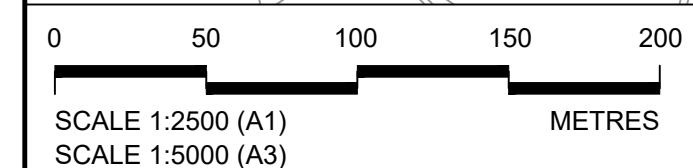
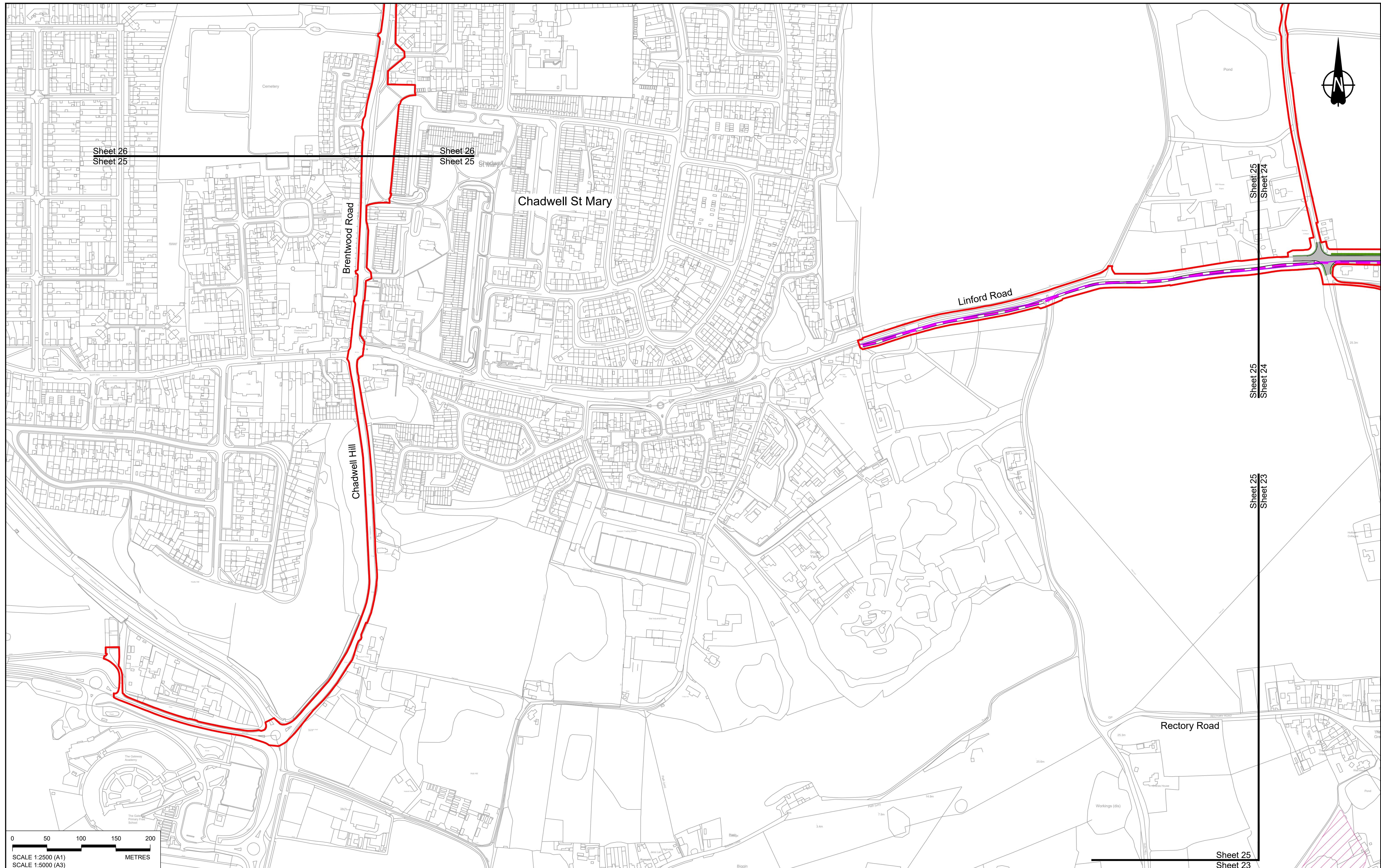


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
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Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 24</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10021				





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

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- Gantry
- Lighting
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- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED ENVIRONMENTAL WORKS**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

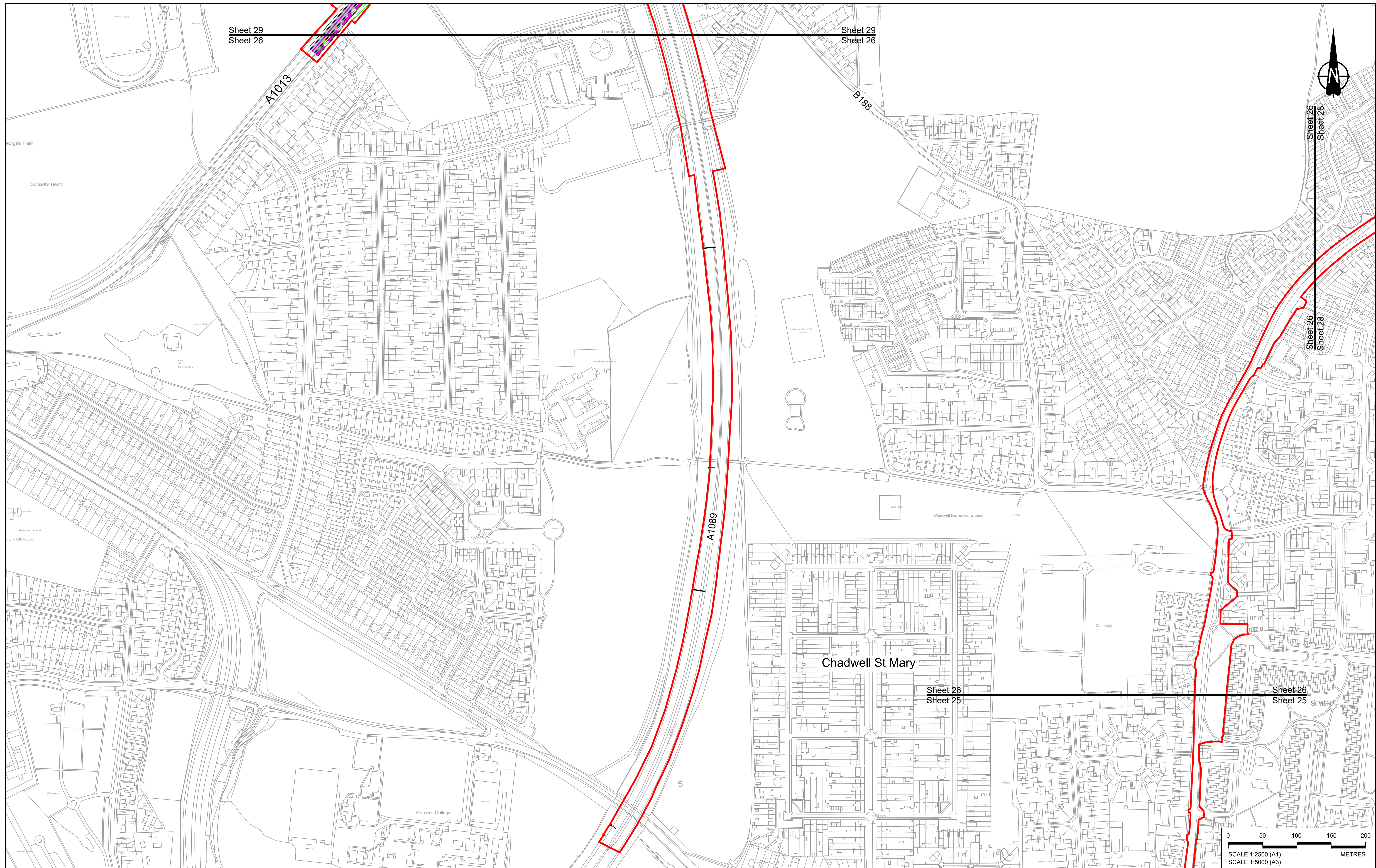
Client: national highways

Project: LOWER THAMES CROSSING

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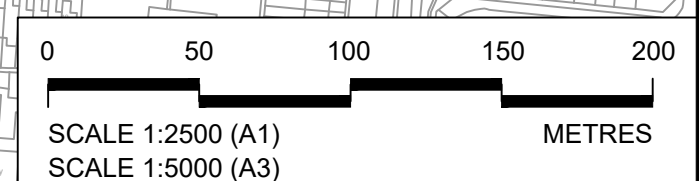
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**BOUNDARIES**

	Order Limits
	Local Authority boundary
	Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

	New carriageway
	Overbridge
	Underpass

	Culvert
	Traffic sign
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

**PROPOSED UTILITIES**

	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground multiutility alignment
	Diversion ties into existing network
	Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

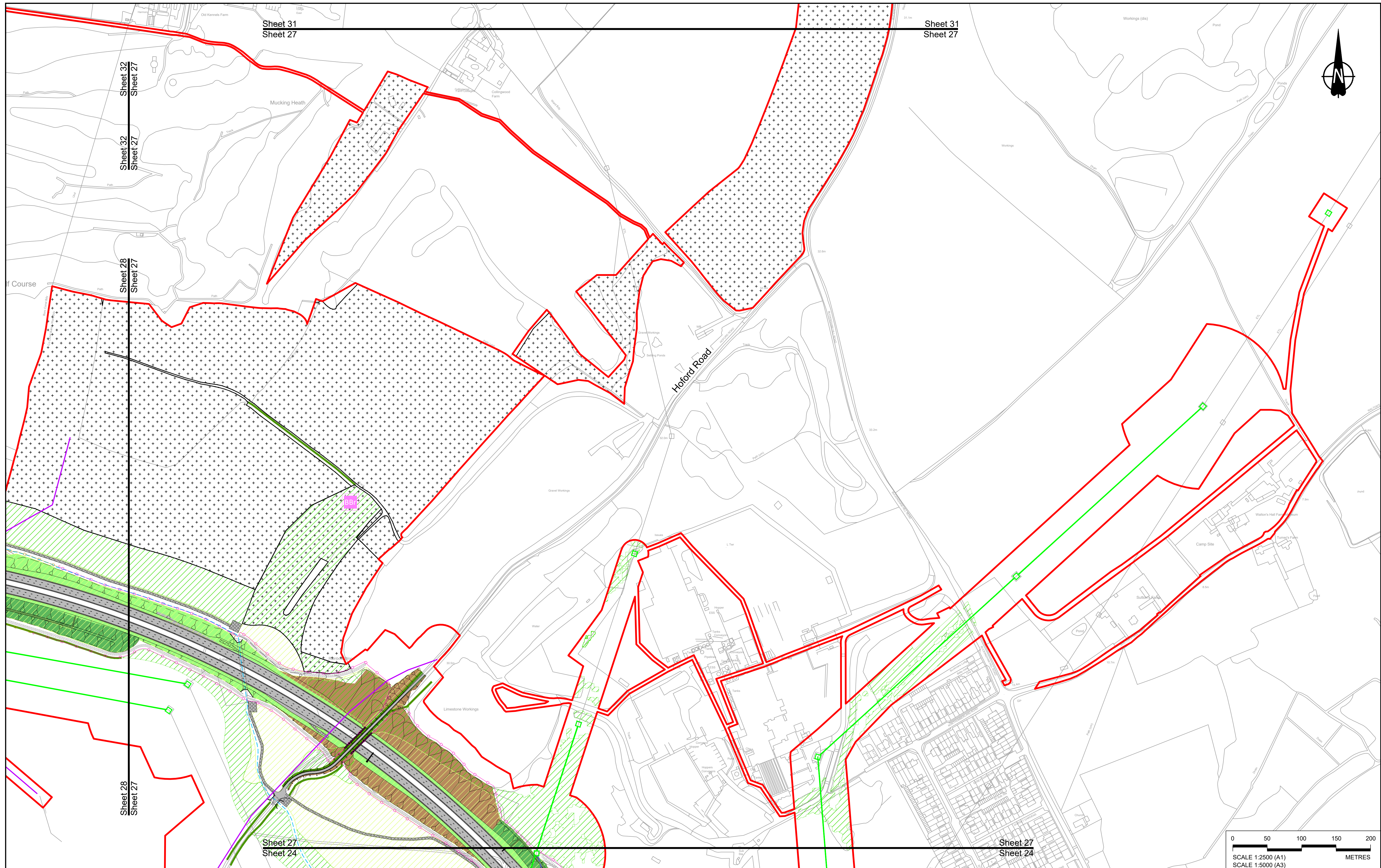
	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 26</b>		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10023		
Scale	1:2500		





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

**NOTES:**

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**BOUNDARIES**

	Order Limits
	Local Authority boundary
	Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

	New carriageway
	Overbridge
	Underpass

	Culvert
	Traffic sign
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

**PROPOSED UTILITIES**

	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground multi-utility alignment
	Division ties into existing network
	Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

**PROPOSED ENVIRONMENTAL WORKS (continued)**

	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 27</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10024				

HE540039-CJV-BOP-SZZ\_GN000000\_-DR-CX-10024.dwg



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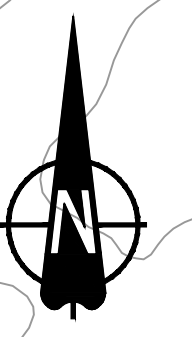
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Chadwell St Mary

Brentwood Road

Horford Road



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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd'd	Apprv'd

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**BOUNDARIES**

	Order Limits
	Local Authority boundary
	Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

	New carriageway
	Overbridge
	Underpass

	Culvert
	Traffic sign
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Road for Tunnel Service Building
	Tunnel
	Ground protection tunnel

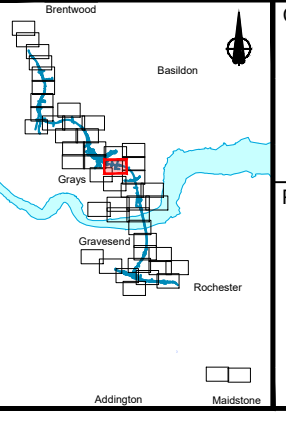
**PROPOSED UTILITIES**

	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground mult utility alignment
	Division ties into existing network
	Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

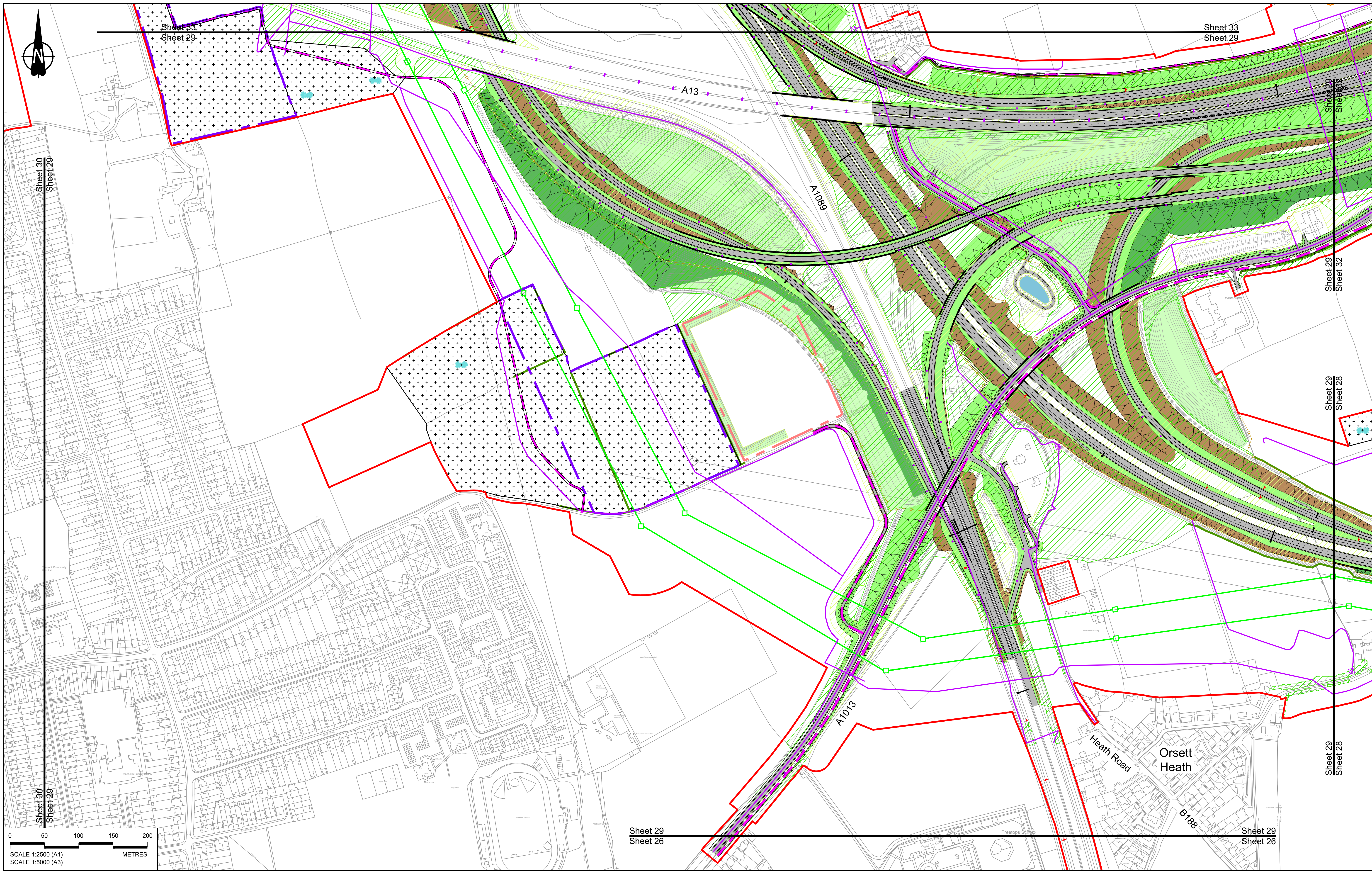


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 28</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_DR-CX-10025				





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19/10/2022 DCO Application GP RO ASB

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GP	RO	ASB

**NOTES:**

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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

**PROPOSED UTILITIES**

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED ENVIRONMENTAL WORKS**

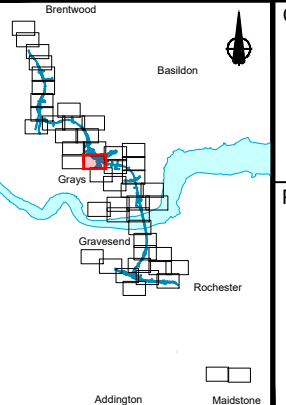
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**PROPOSED UTILITIES**

- Underground gas diversion
- Resigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

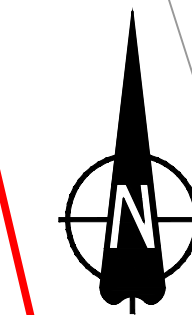


Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 29				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10026				





Wedbridge Road

A13

A1012

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North  
Stifford

Little Thurrock

William Edwards School  
and Sports College  
(secondary)



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**NOTES:**

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

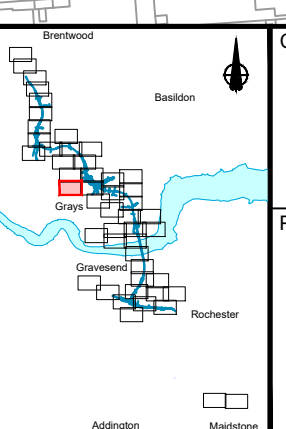
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED ENVIRONMENTAL WORKS**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitenancy alignment
- Diversion ties into existing network
- Utility compound or substation
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**Flood Compensation Area**

- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

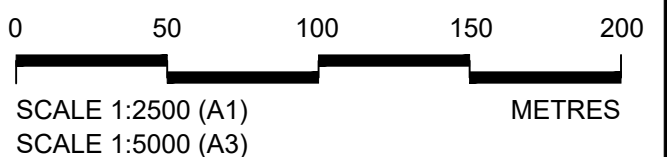
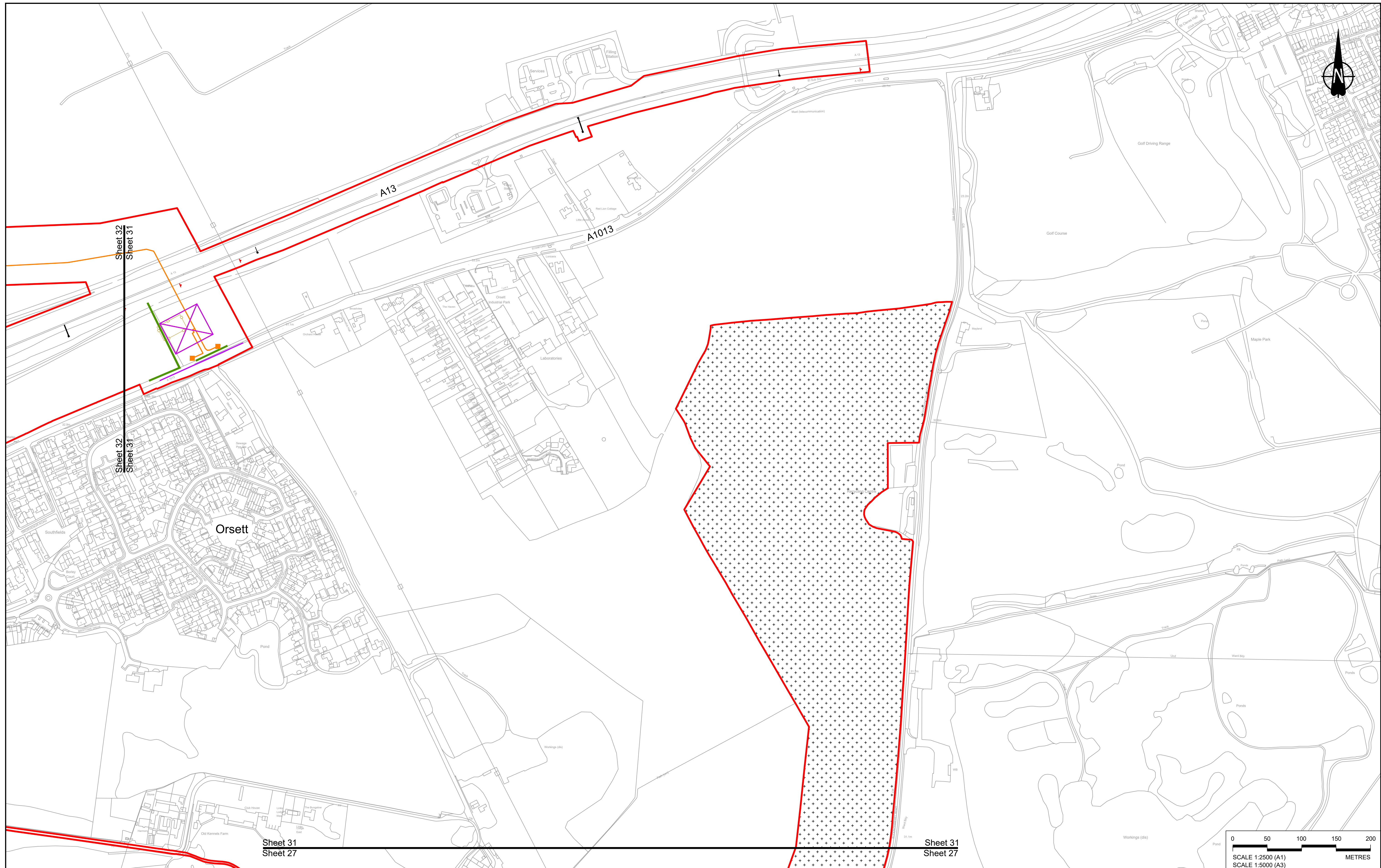


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 30</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10027				





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED ENVIRONMENTAL WORKS**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

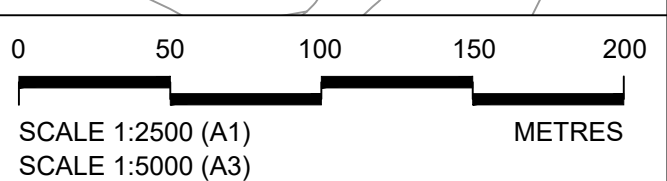
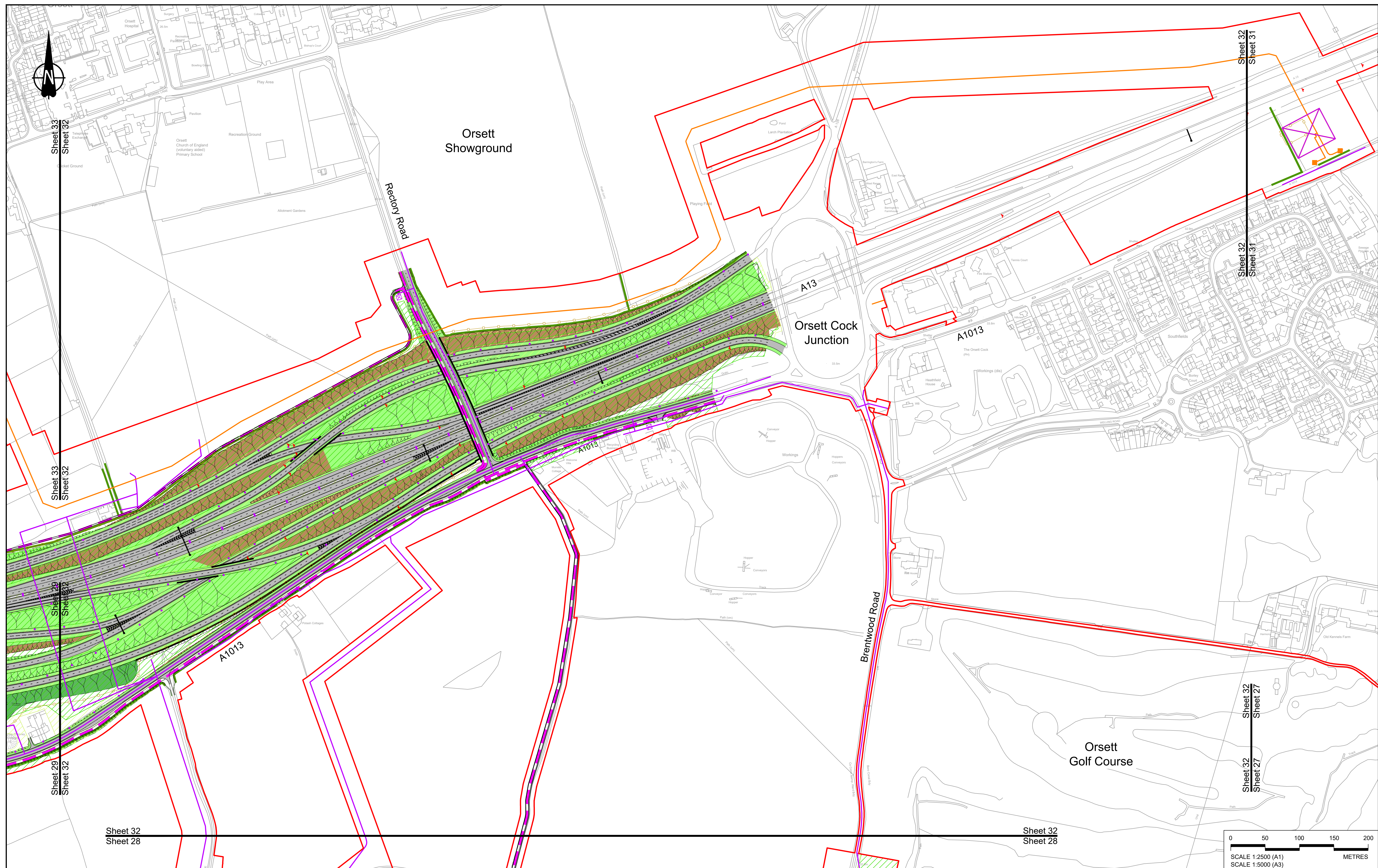
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 31</b>		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10028		





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- For Environmental details refer to the Environmental Masterplan (application document reference TR010032/APP/6.2 Fig 2.4) and Environmental Constraints Plan (application document reference TR010032/APP/6.2 Fig 2.3) and associated drawings and documents.

P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Resigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

**PROPOSED ENVIRONMENTAL WORKS**

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED UTILITIES**

- Underground gas diversion
- Resigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

Client: **national highways**

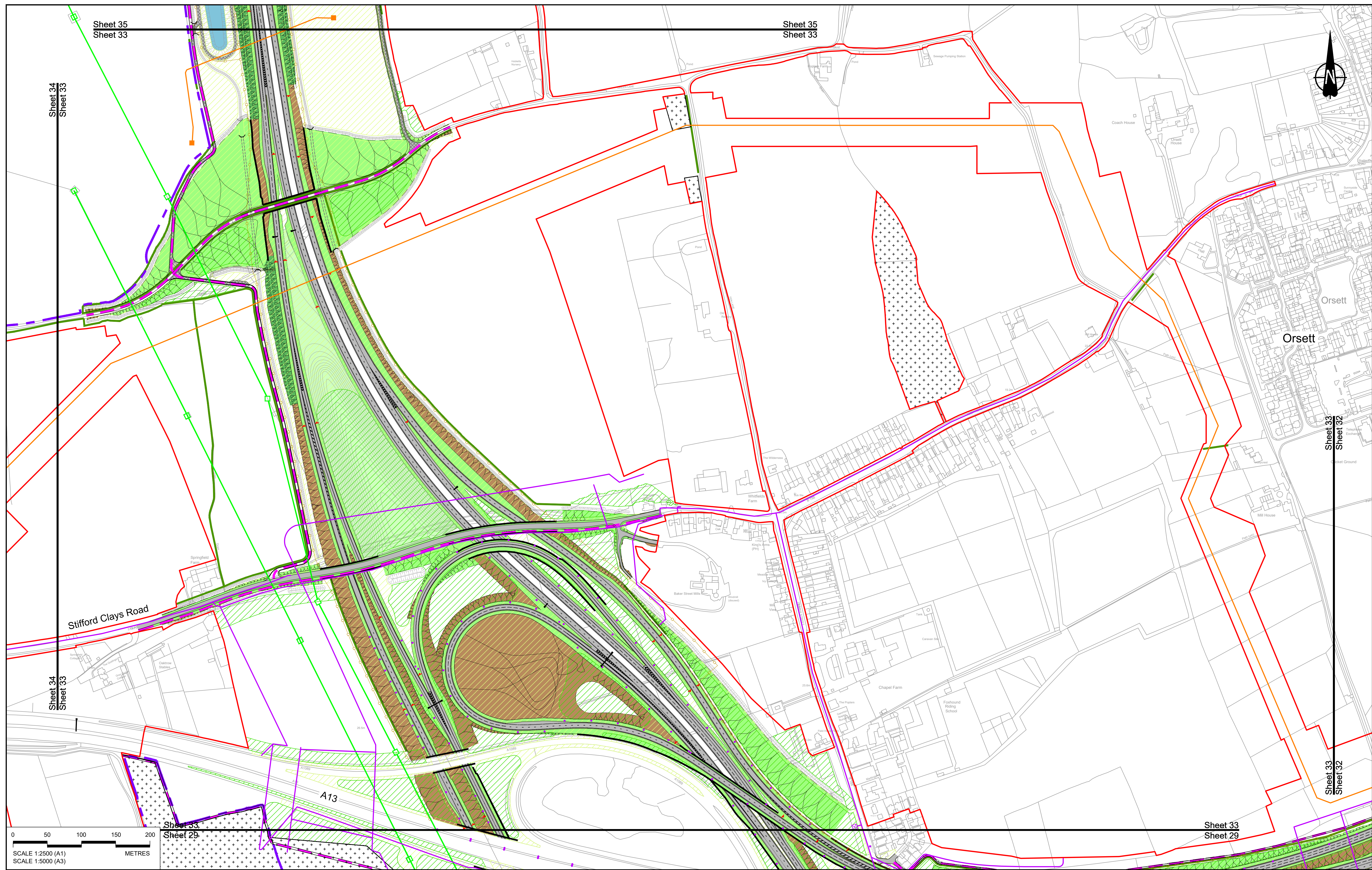
Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 32		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10029		

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GP	RO	ASB

BOUNDARIES	
	Order Limits
	Local Authority boundary
	Proposed replacement travellers site
PROPOSED ENGINEERING AND CONSTRUCTION	
	New carriageway
	Overbridge
	Underpass

	Culvert
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

PROPOSED UTILITIES	
	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground multitality alignment
	Division lies into existing network
	Utility compound or substation

PROPOSED ENVIRONMENTAL WORKS	
	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

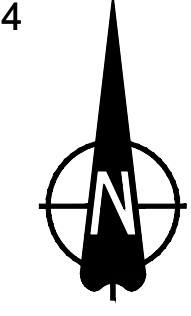
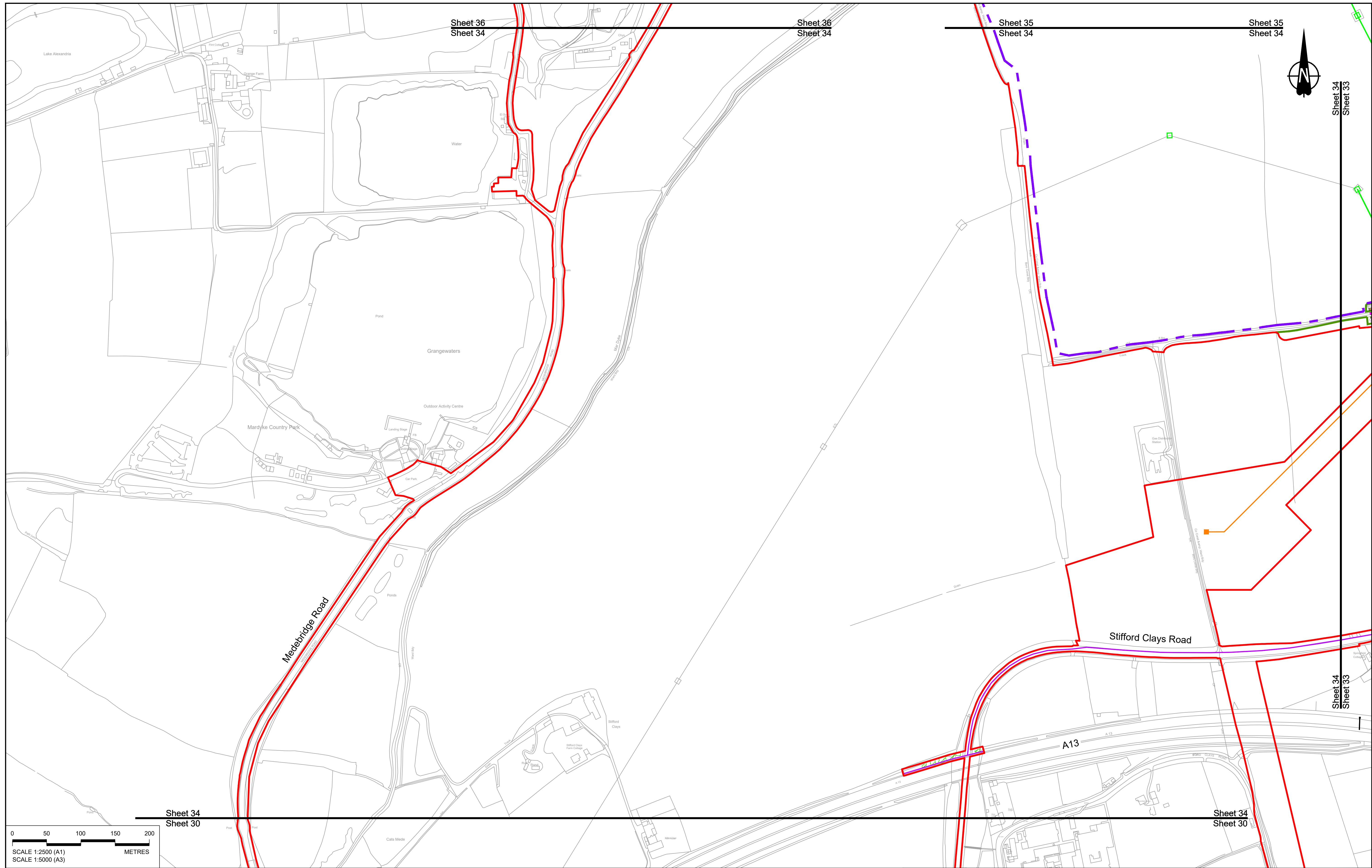
Client:

Project:

**LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 33</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10030				





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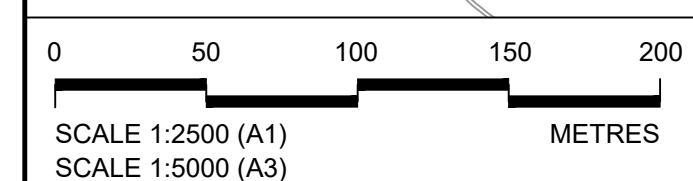
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P01	SB	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Order Limits	Local Authority boundary	Proposed replacement travellers site	New carriageway	Overbridge	Underpass
Culvert	Traffic sign	Gantry	Lighting	Infiltration basin, detention basin or retention pond	Walking, cycling and horse-riding routes
Green Roof for Tunnel Service Building	Tunnel	Ground protection tunnel	Earthworks - Cutting	Earthworks - Embankment	Earthworks - False cutting and landscaping
Verges	Retaining wall	Water pipe & self-regulating valve	Maintenance access	Car park	Rendezvous point

PROPOSED UTILITIES	PROPOSED ENVIRONMENTAL WORKS	FLOOD COMPENSATION AREA
Underground gas diversion	Woodland planting	Flood Compensation Area
Realigned or modified overhead electricity line	Grassland planting	Open space provision, replacement open space or replacement common land
Underground multi-utility alignment	Ecological habitat creation and receptor site for protected species	Hedgerow
Diversion ties into existing network	Temporary ecological habitat	Watercourse diversion
Utility compound or substation	Bat Barn structure	Ecological fencing (badger)
	Ecological pond	Acoustic barrier
		Fencing

Flood Compensation Area	Open space provision, replacement open space or replacement common land	Hedgerow	Watercourse diversion	Ecological fencing (badger)	Acoustic barrier	Fencing
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Client

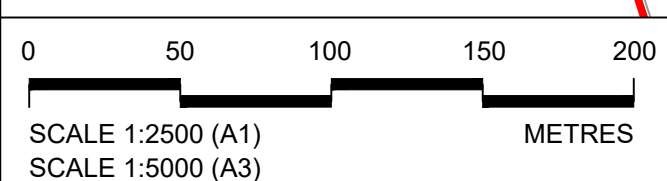
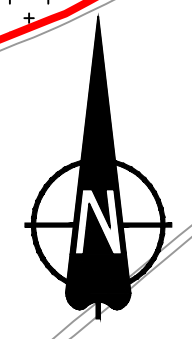
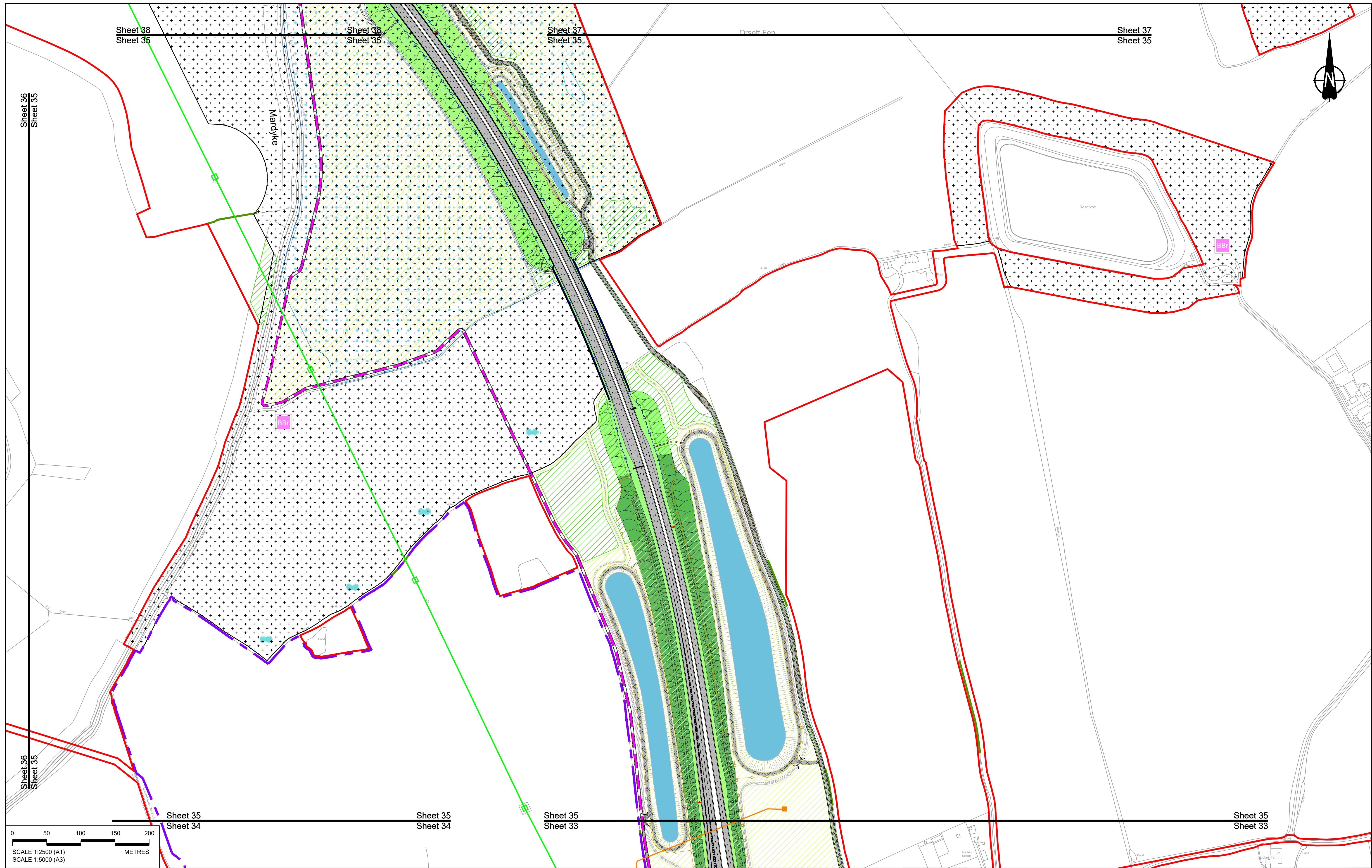
Project

**LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 34		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10031		

Scale	1:2500
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P01	SB	19/10/2022	DCO Application	GP	RO	ASB								
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								

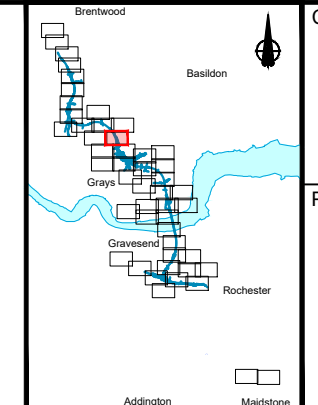
<p><b>BOUNDARIES</b></p> <ul style="list-style-type: none"> <li>Order Limits</li> <li>Local Authority boundary</li> <li>Proposed replacement travellers site</li> </ul> <p><b>PROPOSED ENGINEERING AND CONSTRUCTION</b></p> <ul style="list-style-type: none"> <li>New carriageway</li> <li>Overbridge</li> <li>Underpass</li> <li>Culvert</li> <li>Traffic sign</li> <li>Gantry</li> <li>Lighting</li> <li>Infiltration basin, detention basin or retention pond</li> <li>Walking, cycling and horse-riding routes</li> <li>Green Roof for Tunnel Service Building</li> <li>Tunnel</li> <li>Ground protection tunnel</li> </ul>	<p><b>PROPOSED UTILITIES</b></p> <ul style="list-style-type: none"> <li>Underground gas diversion</li> <li>Realigned or modified overhead electricity line</li> <li>Underground multiutility alignment</li> <li>Diversion ties into existing network</li> <li>Utility compound or substation</li> </ul>	<p><b>PROPOSED ENVIRONMENTAL WORKS</b></p> <ul style="list-style-type: none"> <li>Woodland planting</li> <li>Grassland planting</li> <li>Ecological habitat creation and receptor site for protected species</li> <li>Temporary ecological habitat</li> <li>Bat Barn structure</li> <li>Ecological pond</li> </ul>	<p><b>Flood Compensation Area</b></p> <ul style="list-style-type: none"> <li>Open space provision, replacement open space or replacement common land</li> <li>Hedgerow</li> <li>Watercourse diversion</li> <li>Ecological fencing (badger)</li> <li>Acoustic barrier</li> <li>Fencing</li> </ul>
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<p><b>PROPOSED UTILITIES</b></p> <ul style="list-style-type: none"> <li>Underground gas diversion</li> <li>Realigned or modified overhead electricity line</li> <li>Underground multiutility alignment</li> <li>Diversion ties into existing network</li> <li>Utility compound or substation</li> </ul>	<p><b>PROPOSED ENVIRONMENTAL WORKS</b></p> <ul style="list-style-type: none"> <li>Woodland planting</li> <li>Grassland planting</li> <li>Ecological habitat creation and receptor site for protected species</li> <li>Temporary ecological habitat</li> <li>Bat Barn structure</li> <li>Ecological pond</li> </ul>	<p><b>Flood Compensation Area</b></p> <ul style="list-style-type: none"> <li>Open space provision, replacement open space or replacement common land</li> <li>Hedgerow</li> <li>Watercourse diversion</li> <li>Ecological fencing (badger)</li> <li>Acoustic barrier</li> <li>Fencing</li> </ul>
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<p><b>PROPOSED ENVIRONMENTAL WORKS</b></p> <ul style="list-style-type: none"> <li>Woodland planting</li> <li>Grassland planting</li> <li>Ecological habitat creation and receptor site for protected species</li> <li>Temporary ecological habitat</li> <li>Bat Barn structure</li> <li>Ecological pond</li> </ul>	<p><b>Flood Compensation Area</b></p> <ul style="list-style-type: none"> <li>Open space provision, replacement open space or replacement common land</li> <li>Hedgerow</li> <li>Watercourse diversion</li> <li>Ecological fencing (badger)</li> <li>Acoustic barrier</li> <li>Fencing</li> </ul>
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<p><b>Flood Compensation Area</b></p> <ul style="list-style-type: none"> <li>Open space provision, replacement open space or replacement common land</li> <li>Hedgerow</li> <li>Watercourse diversion</li> <li>Ecological fencing (badger)</li> <li>Acoustic barrier</li> <li>Fencing</li> </ul>	<p><b>Client</b></p> <p>national highways</p> <p><b>Project</b></p> <p>LOWER THAMES CROSSING</p>
--	--

<p><b>Status</b></p> <p>DCO Application</p> <p>Application Document Number TR010032/APP/2.5</p> <p>Drawing title</p> <p>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 35</p> <p>Drawing Number</p> <p>HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10032</p>	<p><b>Original Size</b></p> <p>A1</p> <p><b>Revision</b></p> <p>P01</p> <p>Scale 1:2500</p>
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<p><b>Status</b></p> <p>DCO Application</p> <p>Application Document Number TR010032/APP/2.5</p> <p>Drawing title</p> <p>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 35</p> <p>Drawing Number</p> <p>HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10032</p>	<p><b>Original Size</b></p> <p>A1</p> <p><b>Revision</b></p> <p>P01</p> <p>Scale 1:2500</p>
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<p><b>Status</b></p> <p>DCO Application</p> <p>Application Document Number TR010032/APP/2.5</p> <p>Drawing title</p> <p>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 35</p> <p>Drawing Number</p> <p>HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10032</p>	<p><b>Original Size</b></p> <p>A1</p> <p><b>Revision</b></p> <p>P01</p> <p>Scale 1:2500</p>
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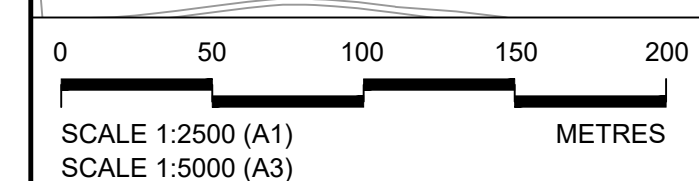
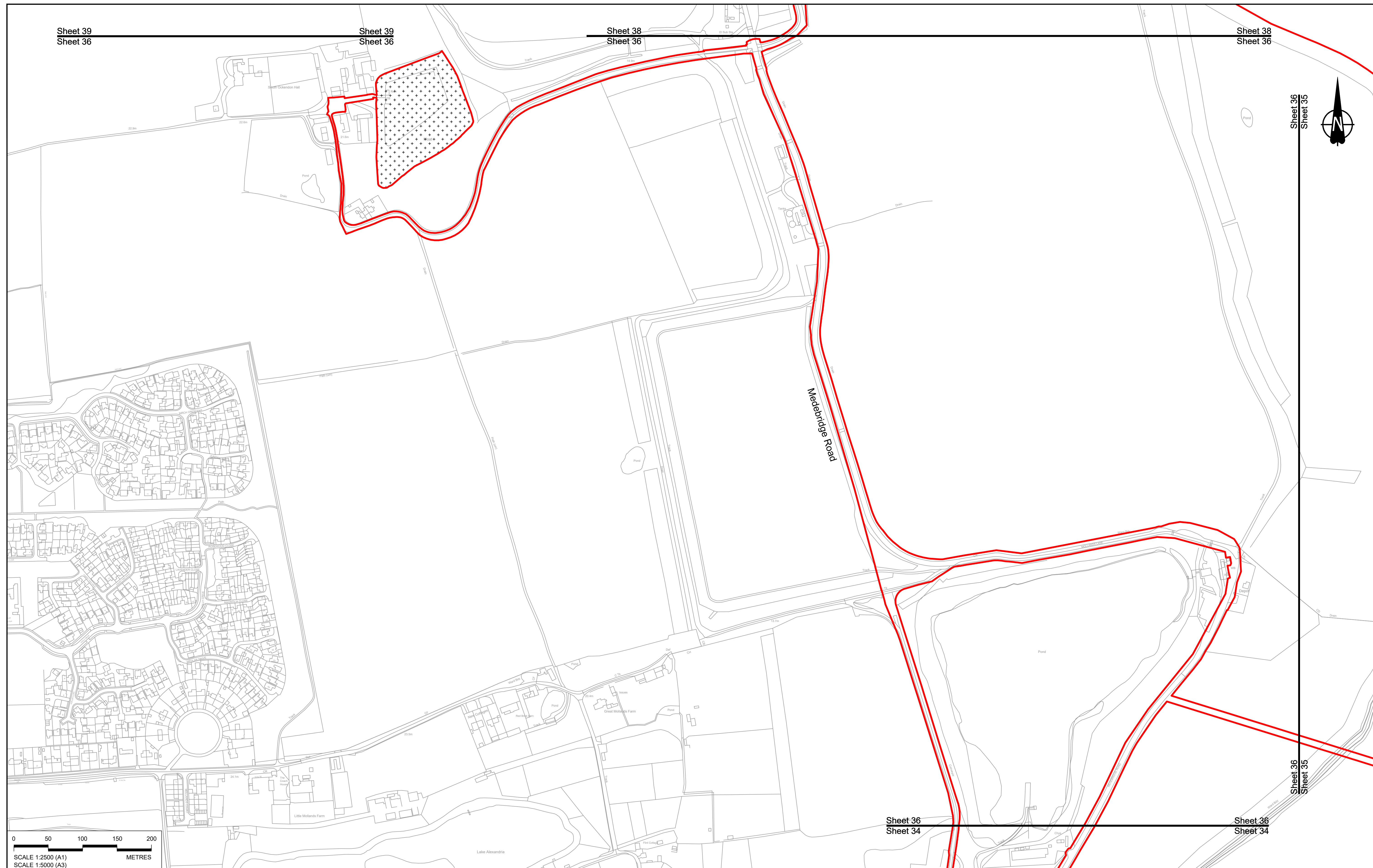
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**NOTES:**

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

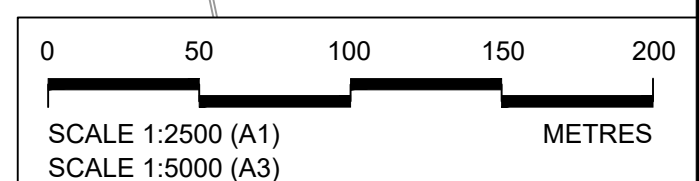
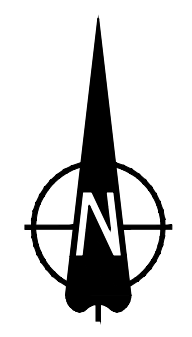
**Client**  
national highways

**Project**  
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 36				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10033				

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NOTES:

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Division ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**Other Features:**

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

**Client**

**Project**

**LOWER THAMES CROSSING**

**Status** DCO Application

**Application Document Number** TR010032/APP/2.5

**Drawing title** GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 37

**Drawing Number** HE540039-CJV-BOP-SZZ\_GN000000\_-DR-CX-10034

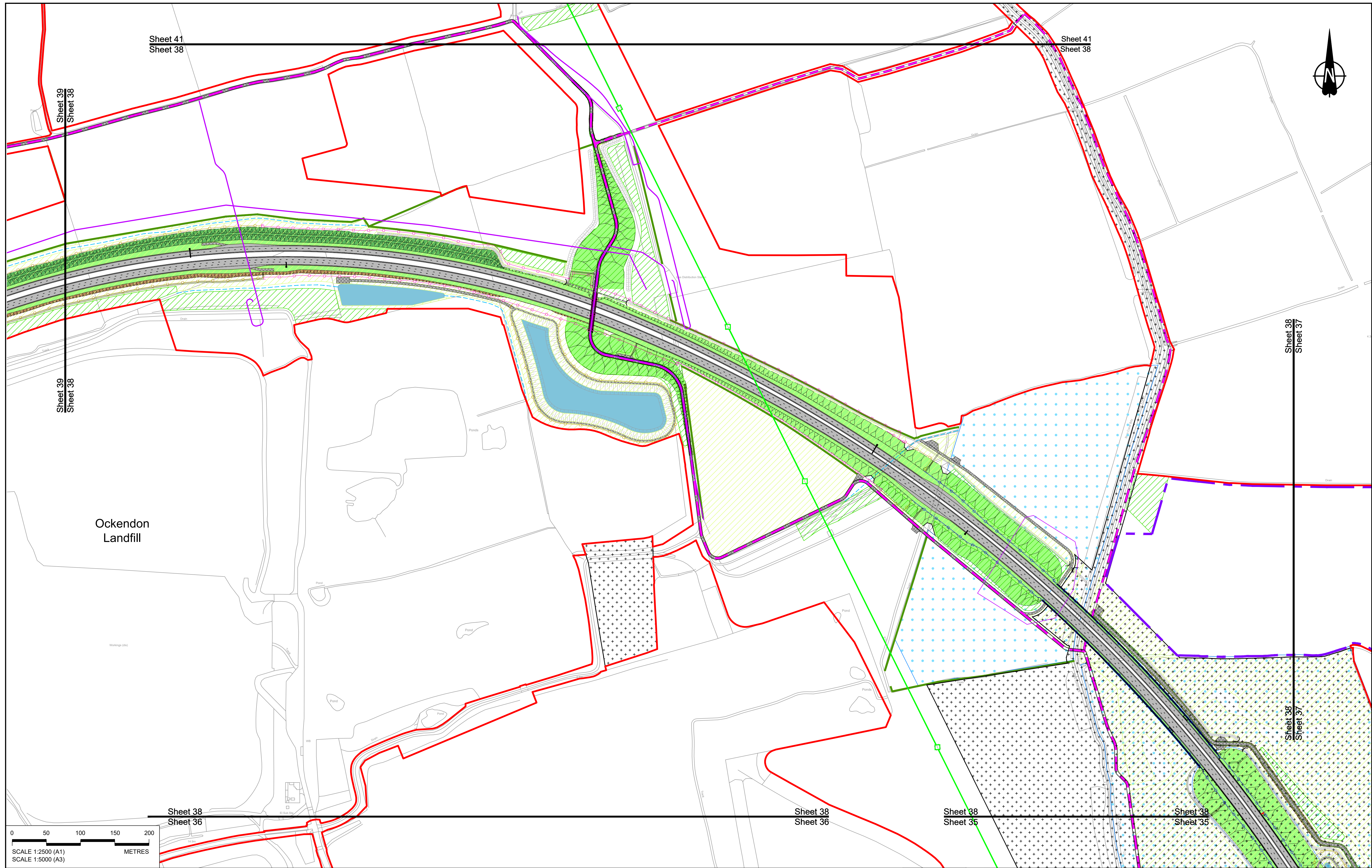
**Original Size** A1

**Revision** P01

**Scale** 1:2500

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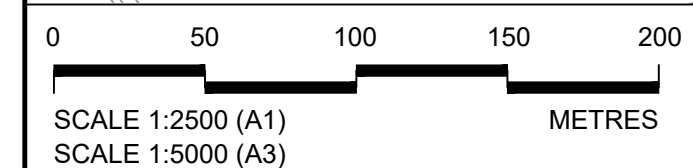
Ockendon  
Landfill

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitype alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitype alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitype alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitype alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

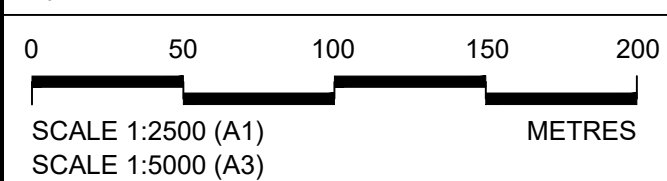
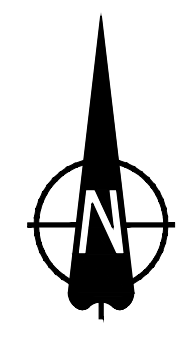
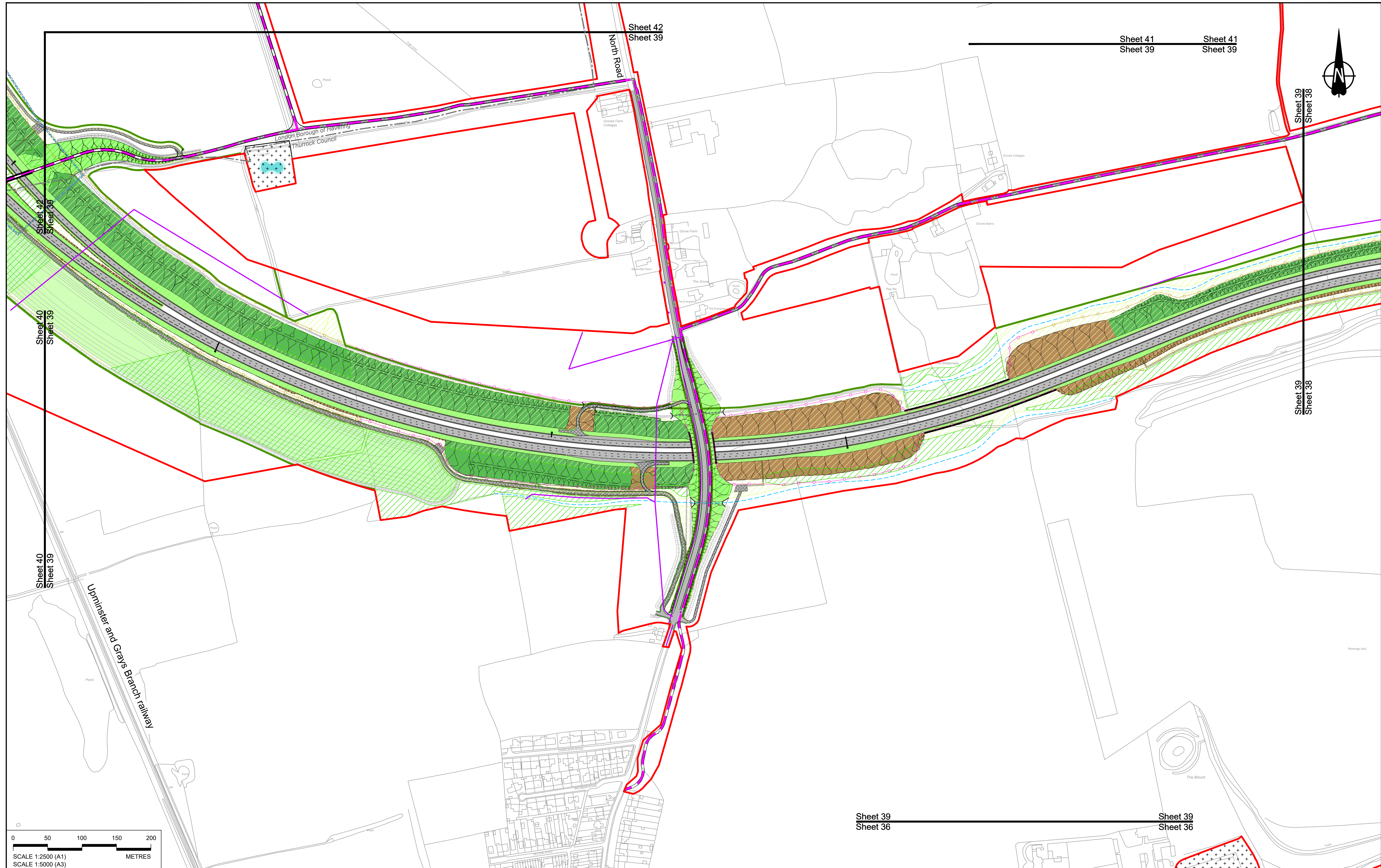
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 38				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10035				





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NOTES:

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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

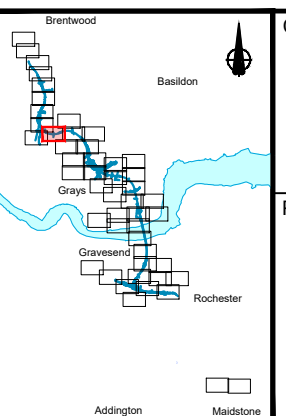
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitype alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor sites for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

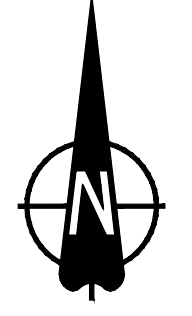


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 39</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10036				





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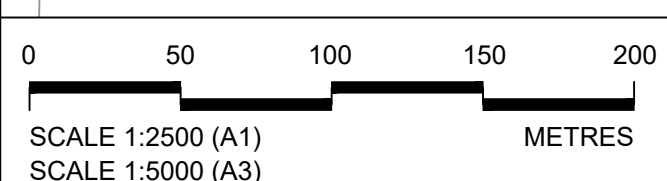
Uxminster and Grays Branch railway

M25

London Borough of Havering  
Thurrock Council

Baldwin Farm

Freeman's Shaw



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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site
- New carriageway
- Overbridge
- Underpass

**PROPOSED ENGINEERING AND CONSTRUCTION**

- Culvert
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

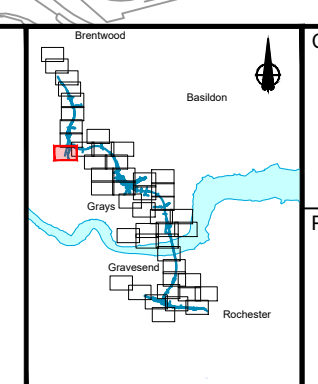
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED ENVIRONMENTAL WORKS**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitality alignment
- Diversion lies into existing network
- Utility compound or substation
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**FLOOD COMPENSATION AREA**

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



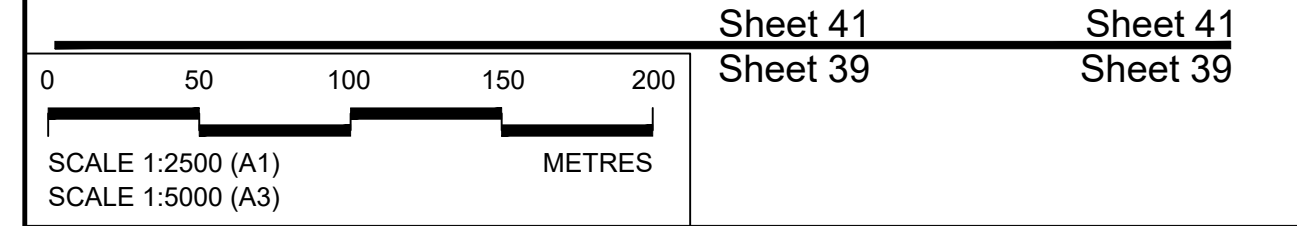
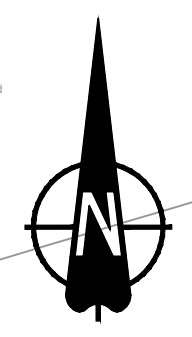
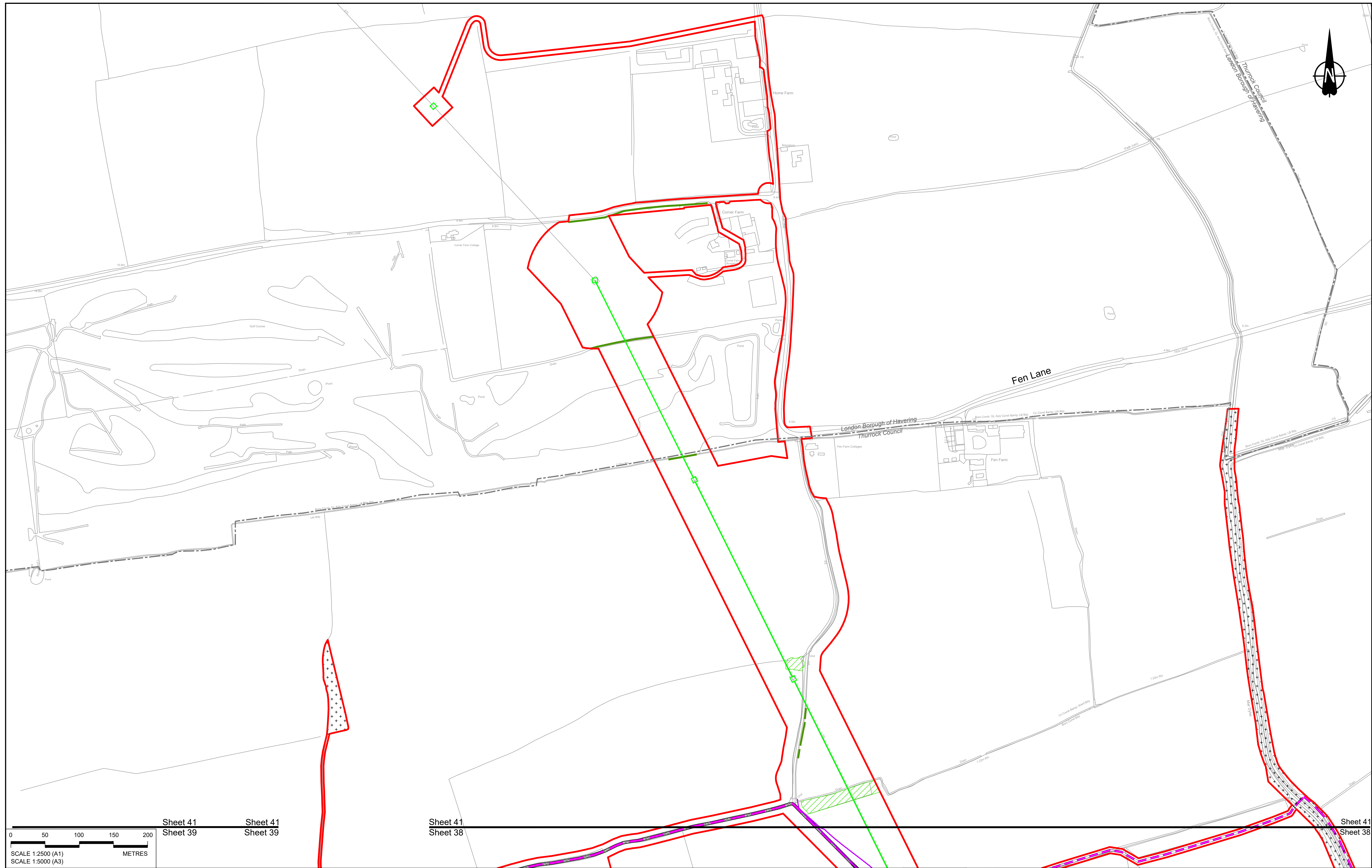
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 40				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10037				

P01	SB	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd





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<b>NOTES:</b>						
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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

<b>BOUNDARIES</b>	Order Limits
Local Authority boundary	Local Authority boundary
Proposed replacement travellers site	Proposed replacement travellers site
<b>PROPOSED ENGINEERING AND CONSTRUCTION</b>	New carriageway
Overbridge	Overbridge
Underpass	Underpass
Culvert	Culvert
Gantry	Gantry
Lighting	Lighting
Infiltration basin, detention basin or retention pond	Infiltration basin, detention basin or retention pond
Walking, cycling and horse-riding routes	Walking, cycling and horse-riding routes
Green Roof for Tunnel Service Building	Green Roof for Tunnel Service Building
Tunnel	Tunnel
Ground protection tunnel	Ground protection tunnel

Earthworks - Cutting	Earthworks - Cutting
Earthworks - Embankment	Earthworks - Embankment
Earthworks - False cutting and landscaping	Earthworks - False cutting and landscaping
Verge	Verge
Retaining wall	Retaining wall
Water pipe & self-regulating valve	Water pipe & self-regulating valve
Maintenance access	Maintenance access
Car park	Car park
Rendezvous point	Rendezvous point

<b>PROPOSED UTILITIES</b>	Underground gas diversion
Realigned or modified overhead electricity line	Realigned or modified overhead electricity line
Underground multitype alignment	Underground multitype alignment
Diversion lies into existing network	Diversion lies into existing network
Utility compound or substation	Utility compound or substation

<b>PROPOSED ENVIRONMENTAL WORKS</b>	Woodland planting
Grassland planting	Grassland planting
Ecological habitat creation and receptor site for protected species	Ecological habitat creation and receptor site for protected species
Temporary ecological habitat	Temporary ecological habitat
Bat Barn structure	Bat Barn structure
Ecological pond	Ecological pond

Flood Compensation Area	Flood Compensation Area
Open space provision, replacement open space or replacement common land	Open space provision, replacement open space or replacement common land
Hedgerow	Hedgerow
Watercourse diversion	Watercourse diversion
Ecological fencing (badger)	Ecological fencing (badger)
Acoustic barrier	Acoustic barrier
Fencing	Fencing

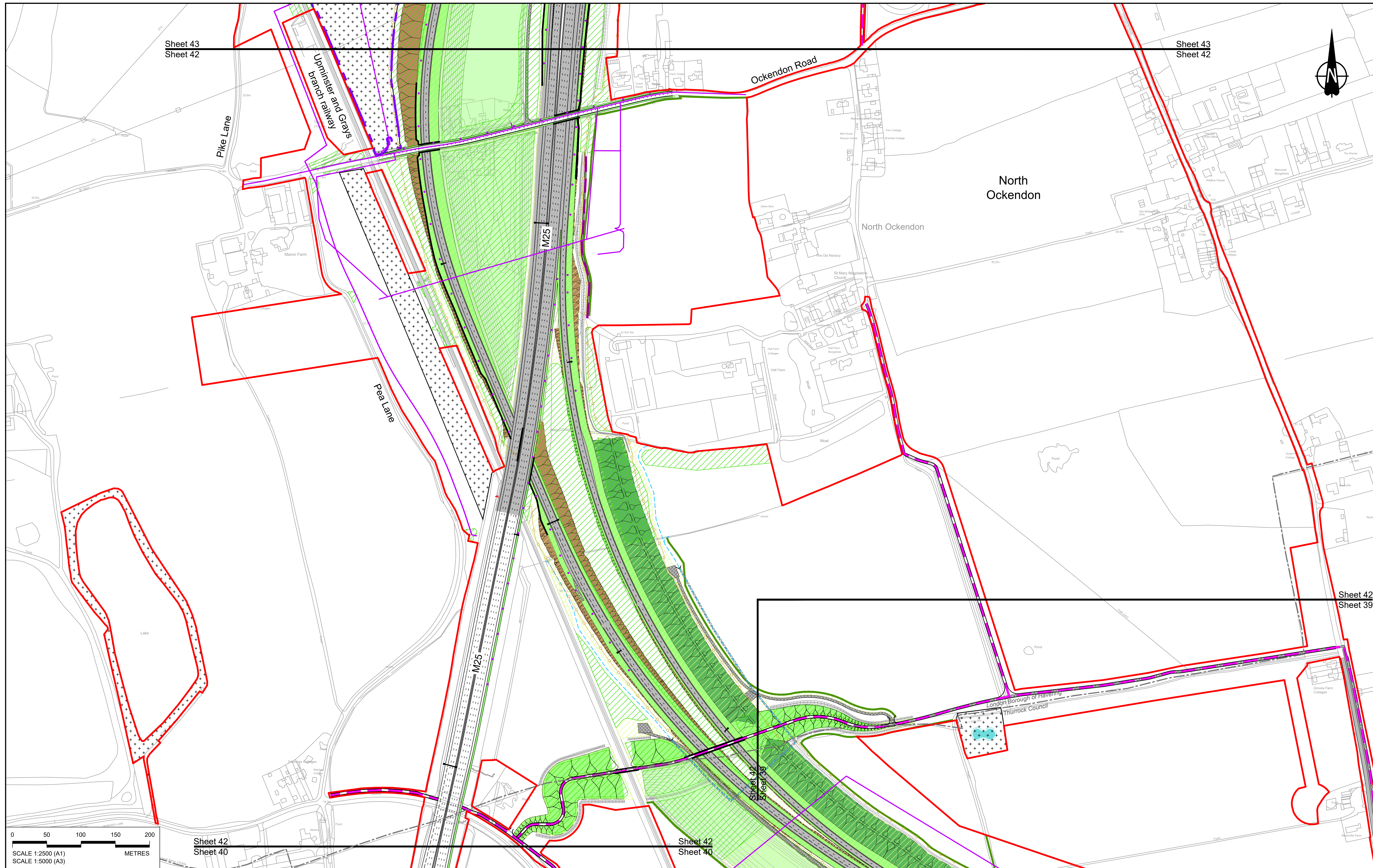
Client

Project

**LOWER THAMES CROSSING**

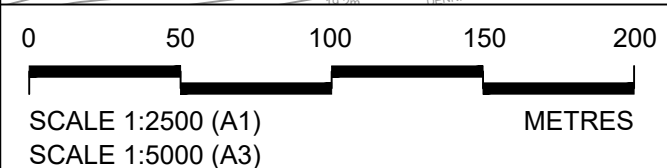
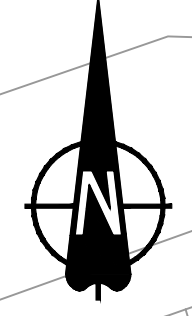
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Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10039		
		Scale	1:2500





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NOTES:

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	<b>GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 42</b>				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10040				



Sheet 44  
Sheet 43

Sheet 44  
Sheet 43

Thames Chase  
Forest

North  
Ockendon

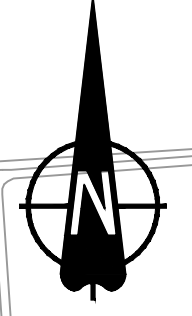
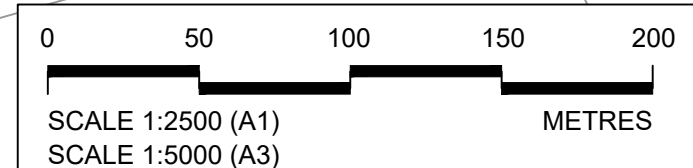
Pike Lane

Clay Tye Road

Ockendon Road

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Sheet 42

Sheet 43  
Sheet 42



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P01	SB	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

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**BOUNDARIES**

	Order Limits
	Local Authority boundary
	Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

	New carriageway
	Overbridge
	Underpass

	Culvert
	Traffic sign
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

	Earthworks - Cutting
	Earthworks - Embankment
	Earthworks - False cutting and landscaping
	Verge
	Retaining wall
	Water pipe & self-regulating valve
	Maintenance access
	Car park
	Rendezvous point

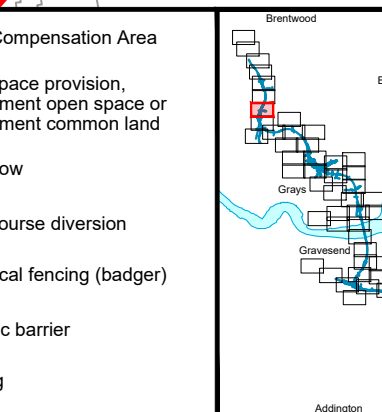
**PROPOSED UTILITIES**

	Underground gas diversion
	Realigned or modified overhead electricity line
	Underground multiutility alignment
	Diversion ties into existing network
	Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bal Barn structure
	Ecological pond

	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgegrow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing



**national highways**

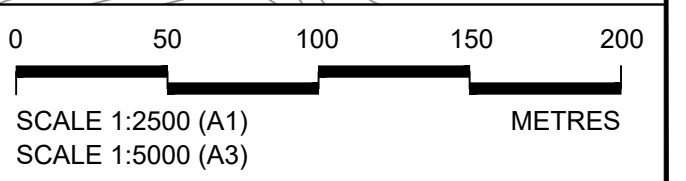
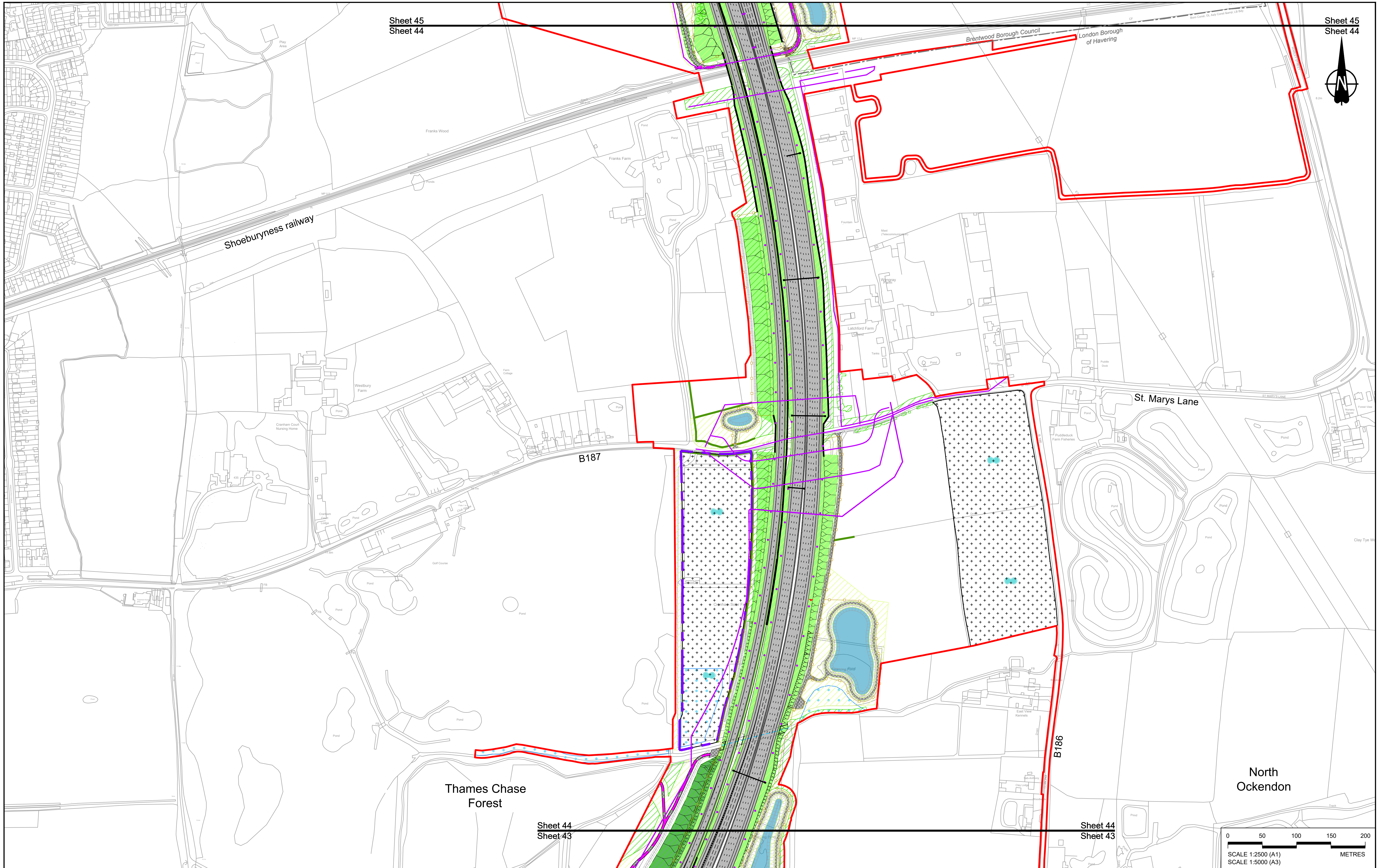
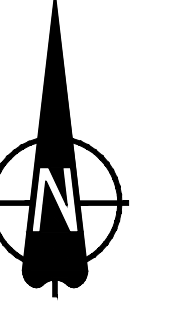
Client

Project

**LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 43		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10041		
		Scale	1:2500





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

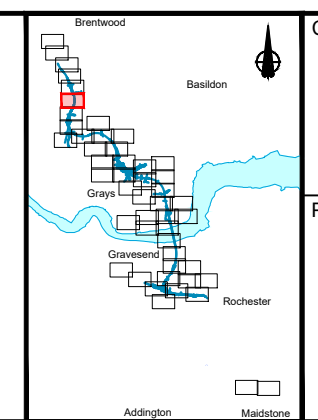
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multistability alignment
- Division ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

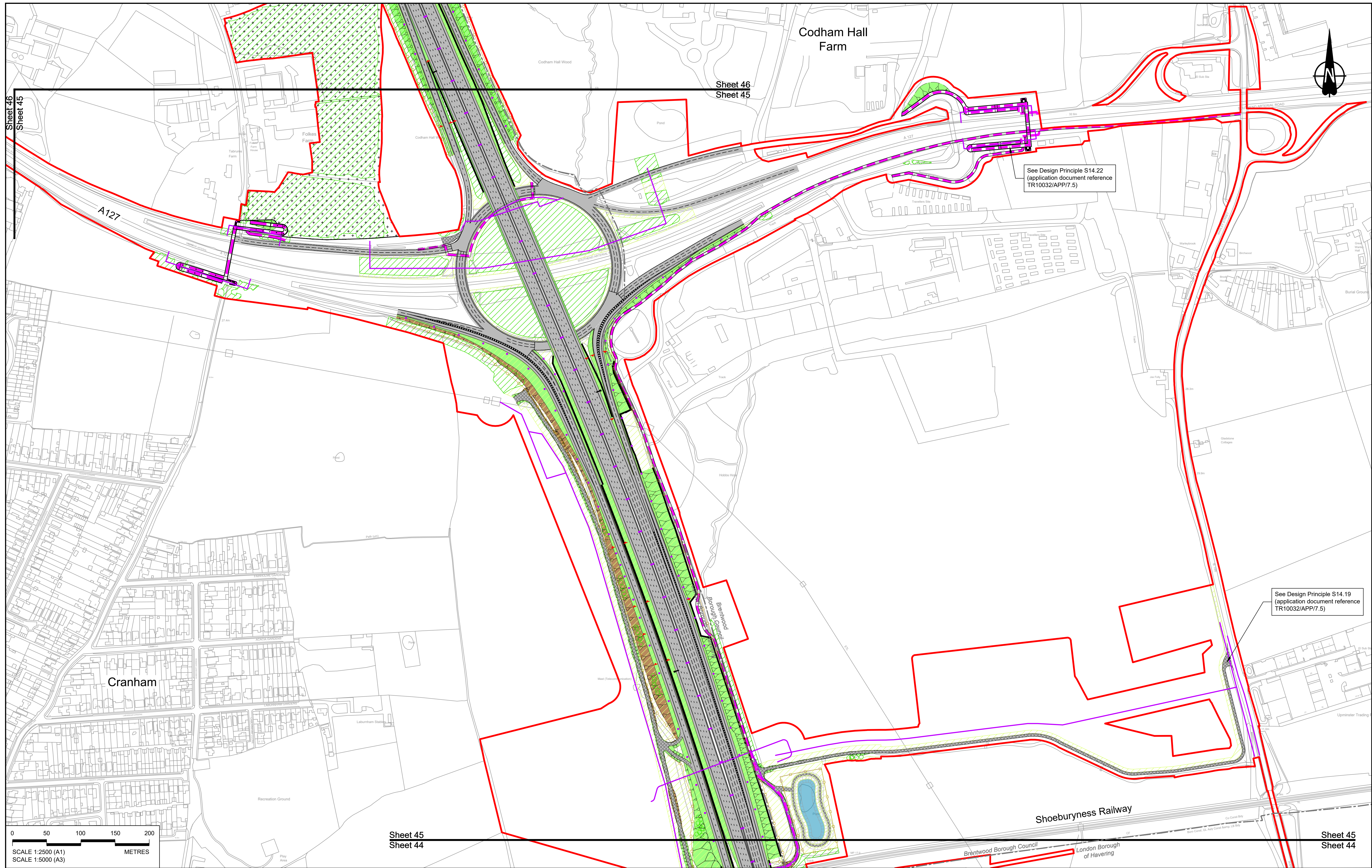


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 44		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10042		
Scale: 1:2500			





0 50 100 150 200 METRES

SCALE 1:2500 (A1)  
SCALE 1:5000 (A3)

P01	SB	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground mult utility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

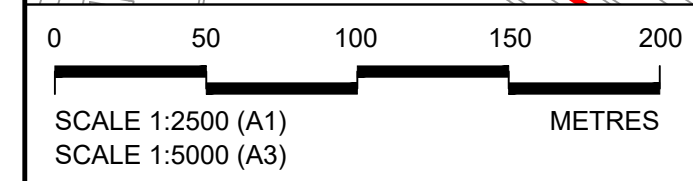
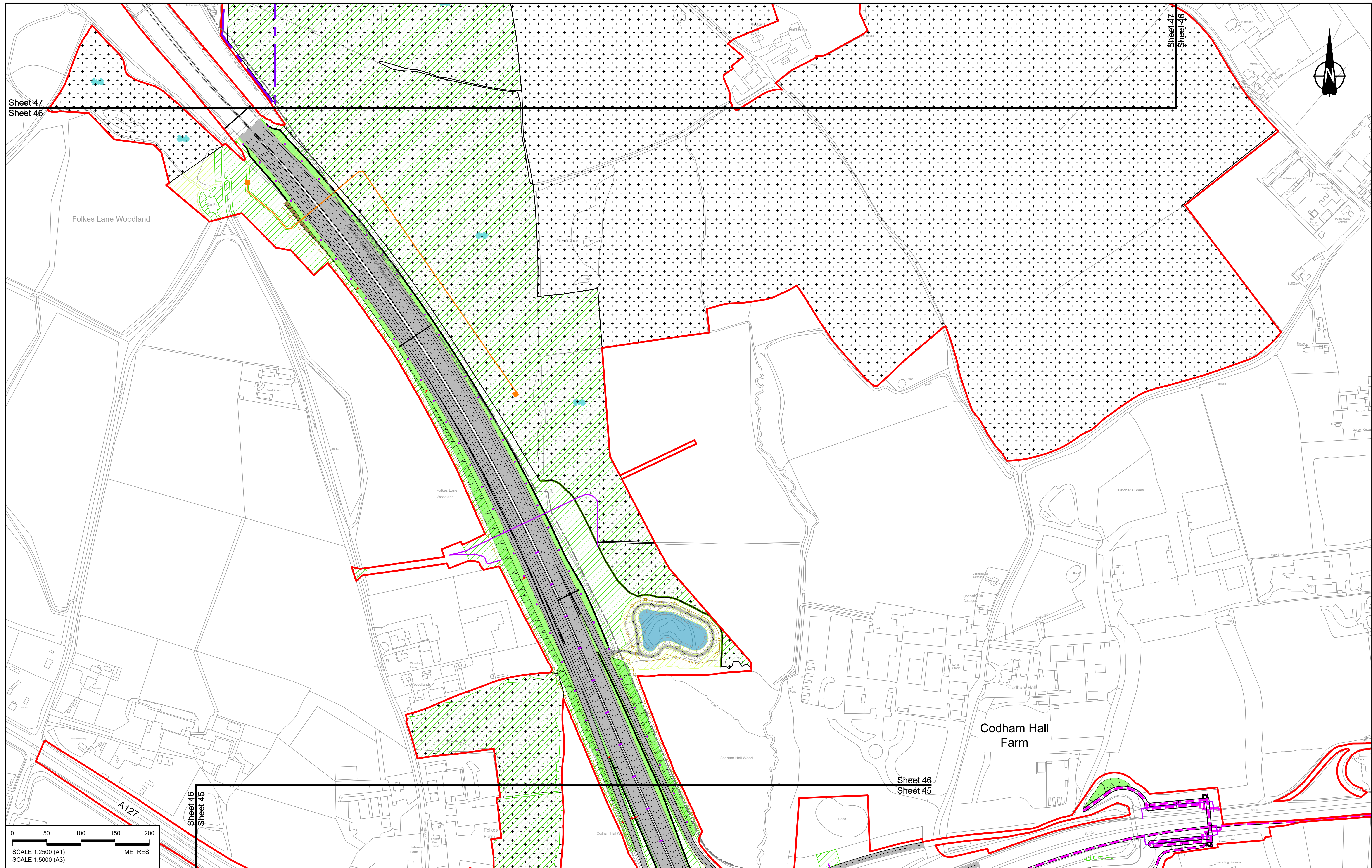
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedge-row
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR10032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 45				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10043				





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Sheet 45

**NOTES:**  
 1. The proposed arrangement of the Scheme is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).  
 2. These plans should be read in conjunction with the Development Consent Order (application document reference TR010032/APP/3.1).  
 3. For Environmental details refer to the Environmental Masterplan (application document reference TR010032/APP/6.2 Fig 2.4) and Environmental Constraints Plan (application document reference TR010032/APP/6.2 Fig 2.3) and associated drawings and documents.

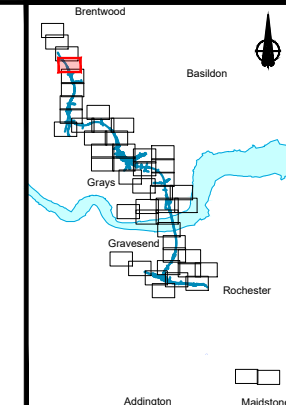
**BOUNDARIES**  
 Order Limits  
 Local Authority boundary  
 Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**  
 New carriageway  
 Overbridge  
 Underpass  
 Culvert  
 Traffic sign  
 Gantry  
 Lighting  
 Infiltration basin, detention basin or retention pond  
 Walking, cycling and horse-riding routes  
 Green Roof for Tunnel Service Building  
 Tunnel  
 Ground protection tunnel

**PROPOSED UTILITIES**  
 Earthworks - Cutting  
 Earthworks - Embankment  
 Earthworks - False cutting and landscaping  
 Verge  
 Retaining wall  
 Water pipe & self-regulating valve  
 Maintenance access  
 Car park  
 Rendezvous point

**PROPOSED ENVIRONMENTAL WORKS**  
 Woodland planting  
 Grassland planting  
 Ecological habitat creation and receptor site for protected species  
 Temporary ecological habitat  
 Bat Barn structure  
 Ecological pond

**PROPOSED ENVIRONMENTAL WORKS (continued)**  
 Flood Compensation Area  
 Open space provision, replacement open space or replacement common land  
 Hedgerow  
 Watercourse diversion  
 Ecological fencing (badger)  
 Acoustic barrier  
 Fencing

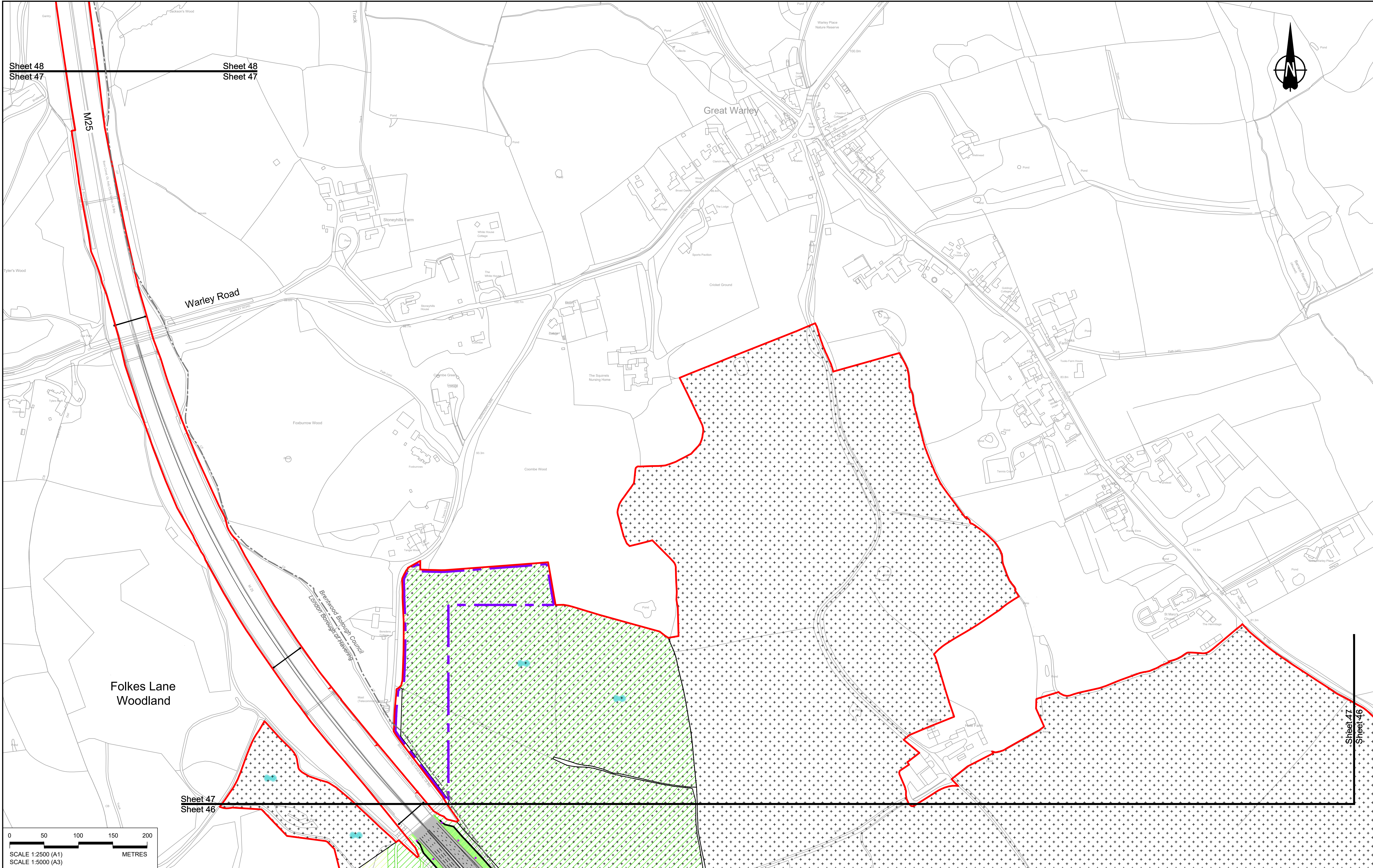


**Client**  
 national highways

**Project**  
 LOWER THAMES CROSSING

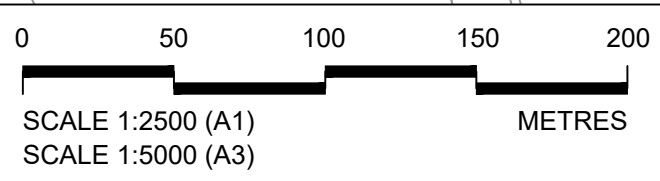
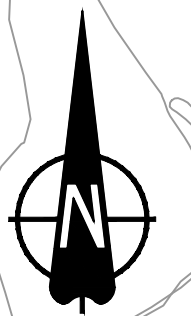
Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 46				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10044				





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Sheet 47

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Sheet 47



Sheet 47  
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- New bridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

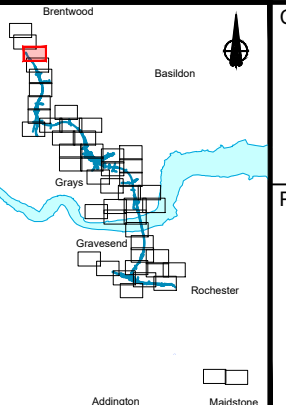
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Division ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

**PROPOSED ENVIRONMENTAL WORKS (continued)**

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

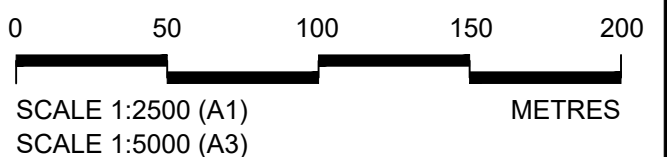


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 47		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10045		
Scale	1:2500		





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P01	S8	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Underground gas diversion
- Resigned or modified overhead electricity line
- Underground multiutility alignment
- Division ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

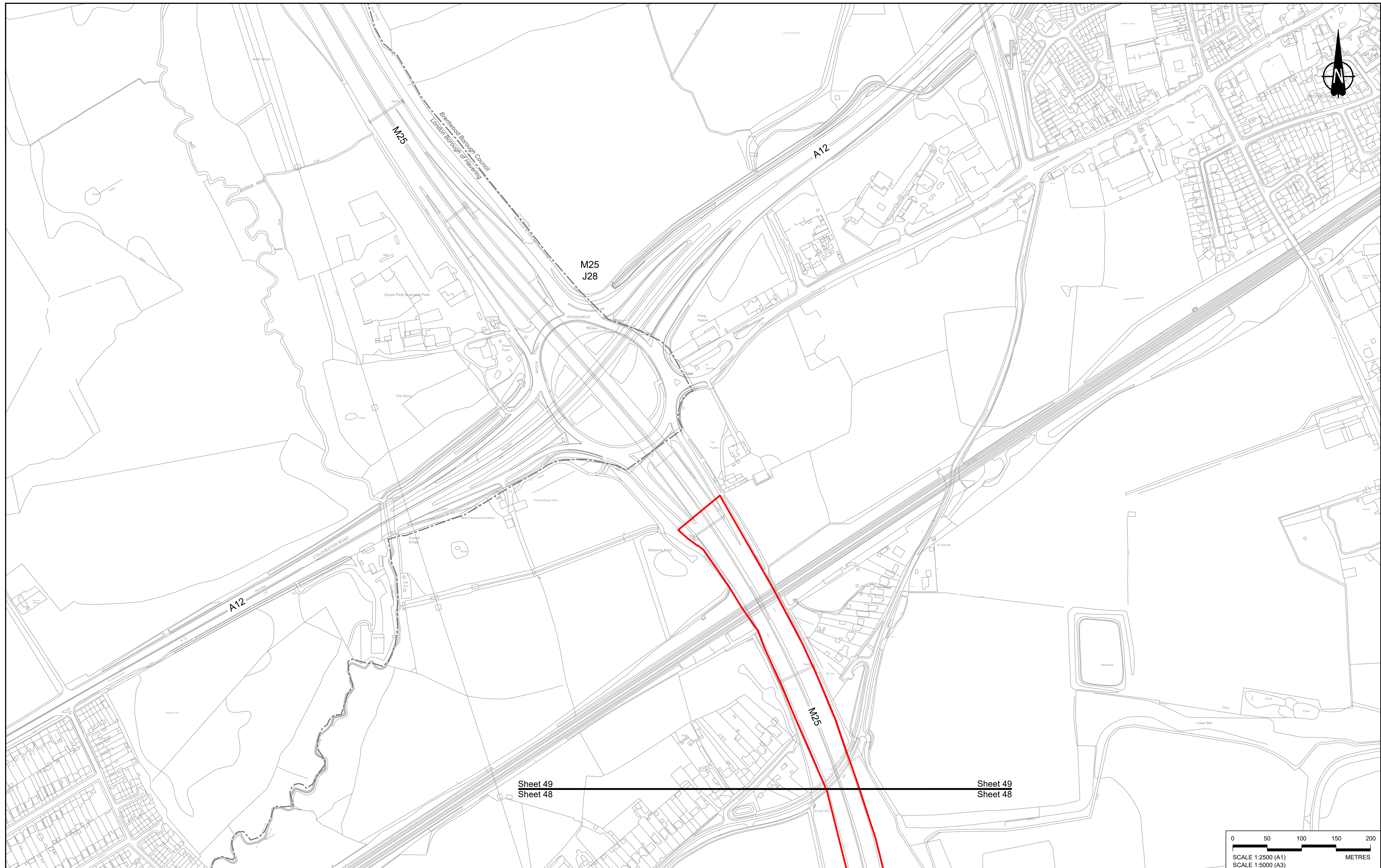
Client

Project

**LOWER THAMES CROSSING**

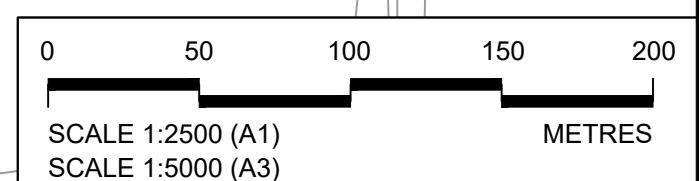
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Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 48		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10046		
		Scale	1:2500





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Sheet 48

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Sheet 48



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

**BOUNDARIES**

- Order Limits
- Local Authority boundary
- Proposed replacement travellers site

**PROPOSED ENGINEERING AND CONSTRUCTION**

- New carriageway
- Overbridge
- Underpass

- Culvert
- Traffic sign
- Gantry
- Lighting
- Infiltration basin, detention basin or retention pond
- Walking, cycling and horse-riding routes
- Green Roof for Tunnel Service Building
- Tunnel
- Ground protection tunnel

**PROPOSED UTILITIES**

- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

**PROPOSED UTILITIES**

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multility alignment
- Diversion ties into existing network
- Utility compound or substation

**PROPOSED ENVIRONMENTAL WORKS**

- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 49		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10047		

Scale: 1:2500



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