

Lower Thames Crossing 2.5 General Arrangement Plans

**Volume C (sheets 21 to 49)
(Clean version)**

APFP Regulation 5(2)(o)

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

Volume 2

**DATE: August 2023
DEADLINE: 3**

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

VERSION: 2.0

Revision history

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	24 August 2023	Deadline 3

Lower Thames Crossing

2.5 General Arrangement Plans

Volume C (sheets 21 to 49)

(Clean version)

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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.
- 1.1.15 These plans have been updated for Deadline 3 to include the minor amendments as advised by the Examining Authority in Rule 9 [[PD-022](#)].

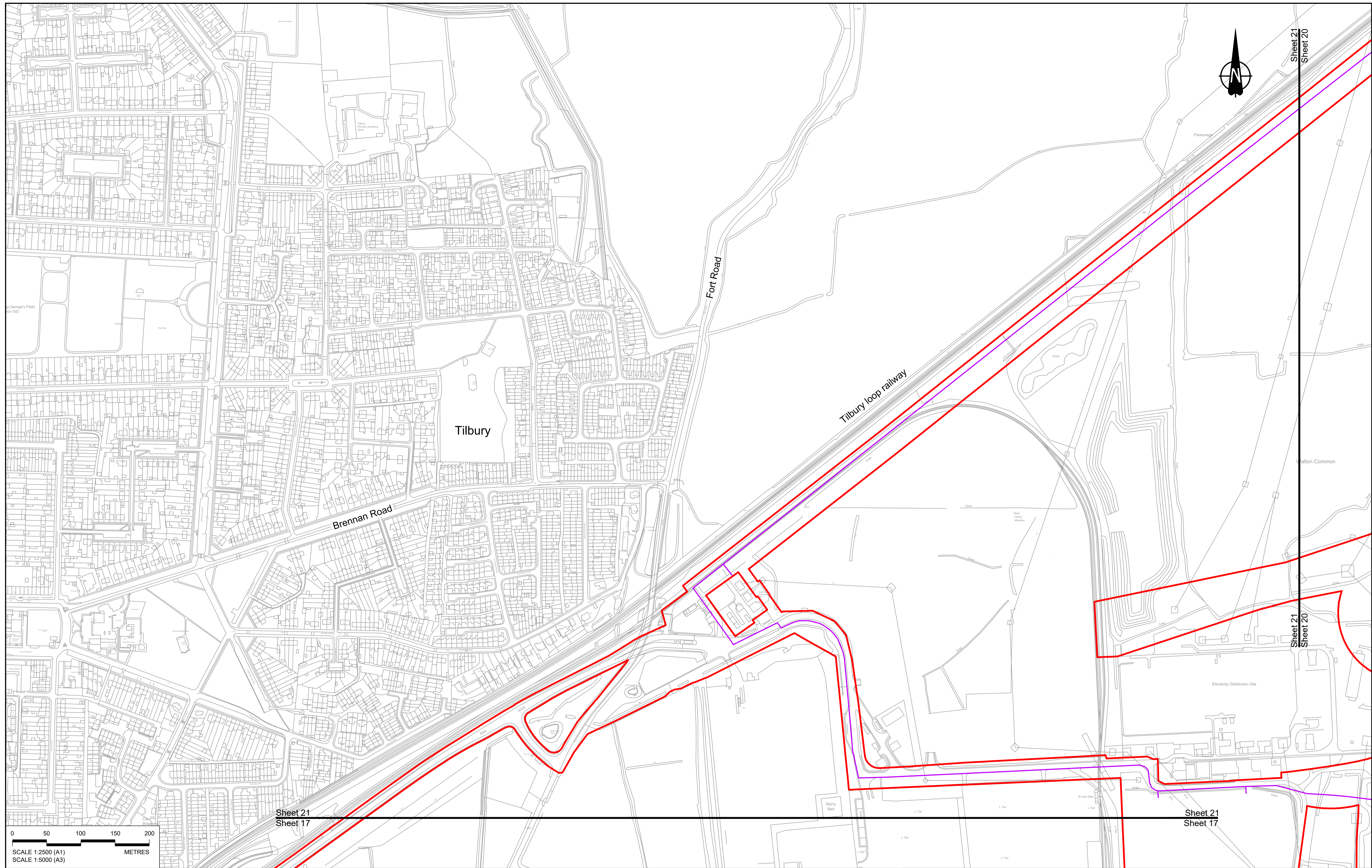
2 Schedule of Plans included in this application document

Document Title	Document Number	Revision
GENERAL ARRANGEMENT REGULATION 5(2)(o) KEY PLAN	TR010032/APP/2.5	P02
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 1	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 2	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 3	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 4	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 5	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 6	TR010032/APP/2.5	P02
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 7	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 8	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 9	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 10	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 11	TR010032/APP/2.5	P02

Document Title	Document Number	Revision
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 12	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 13	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 14	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 15	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 16	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 17	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 18	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 19	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 20	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 21	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 22	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 23	TR010032/APP/2.5	P02
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 24	TR010032/APP/2.5	P01

Document Title	Document Number	Revision
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 25	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 26	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 27	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 28	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 29	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 30	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 31	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 32	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 34	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 35	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 36	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 37	TR010032/APP/2.5	P01

Document Title	Document Number	Revision
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 38	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 39	TR010032/APP/2.5	P01
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GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 42	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 43	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 44	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 45	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 46	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 47	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 48	TR010032/APP/2.5	P01
GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 49	TR010032/APP/2.5	P01



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NOTES:

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- These plans should be read in conjunction with the Development Consent Order (application document reference TR010032/APP/3.1).
- 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	SB	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

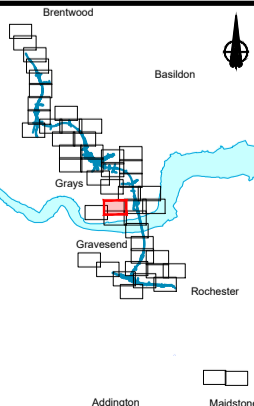
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

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

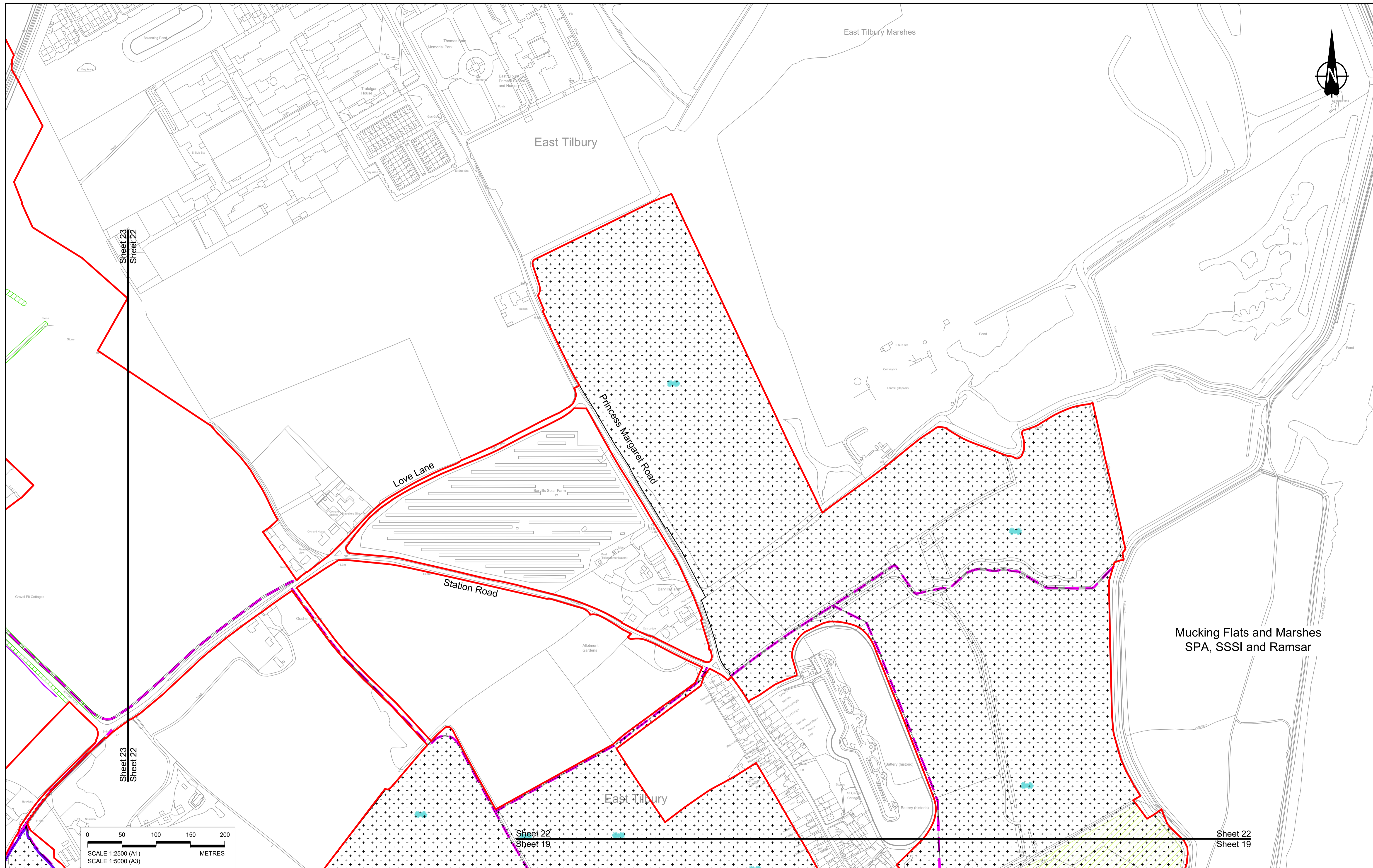
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 21		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10018		
		Scale	1:2500



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PO1	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
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

	Ecological pond
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	Ecological pond
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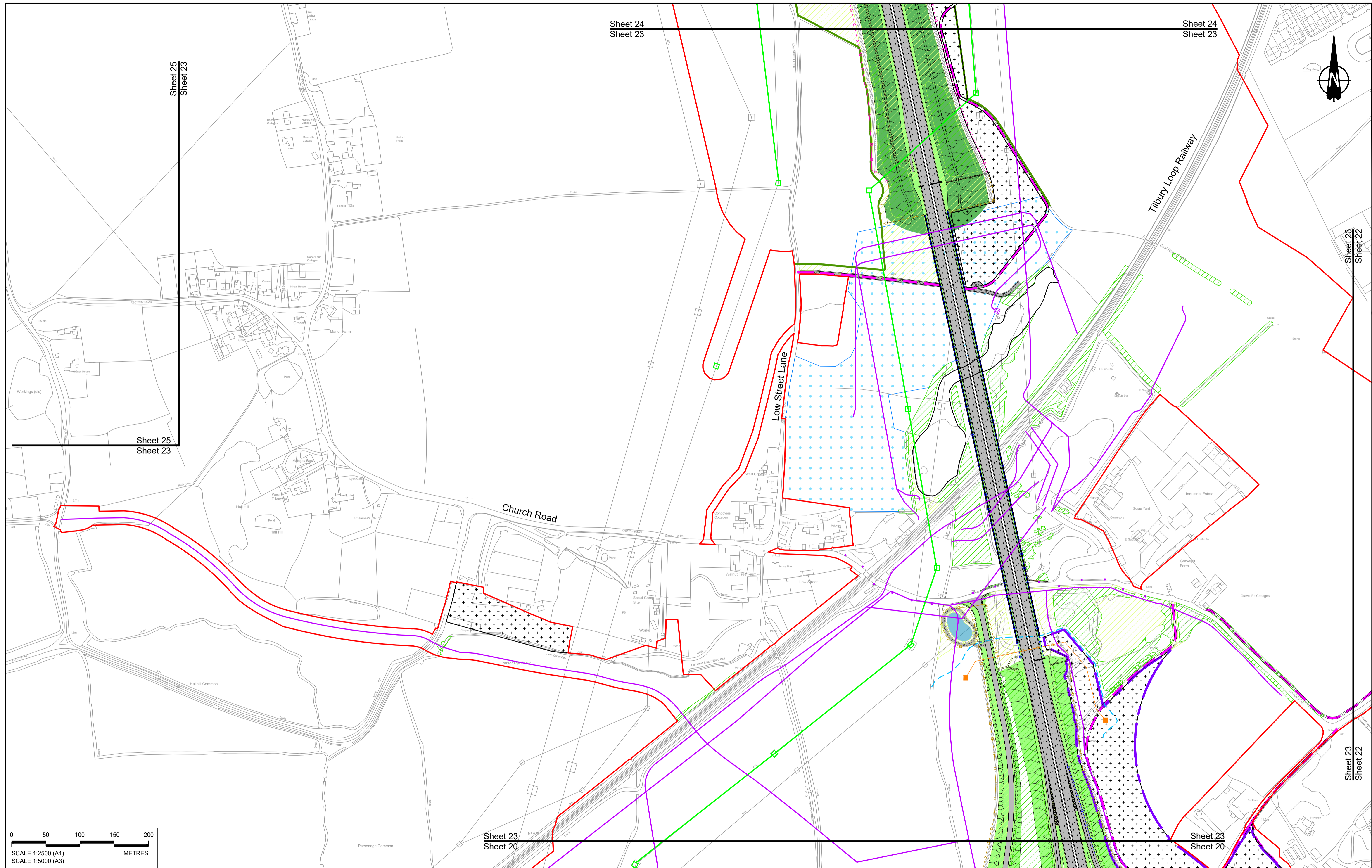
	Ecological pond
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	Ecological pond
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	Ecological pond
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	Ecological pond
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Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 22		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000 -DR-CX-10019		



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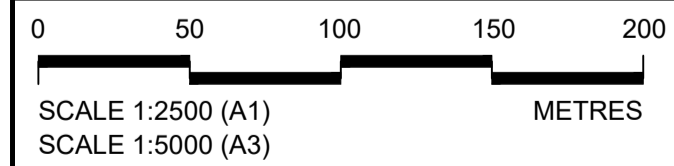
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GP	RO	ASB
P02	S8	24/08/2023	Deadline 3	GP	RO	ASB

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
- 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

Other Features:

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

PROPOSED UTILITIES

- Underground gas diversion
- Realigned or modified overhead electricity line
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- Diversion ties into existing network
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PROPOSED ENVIRONMENTAL WORKS

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Other Features:

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

PROPOSED UTILITIES

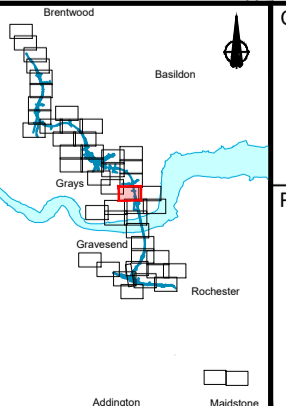
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

PROPOSED ENVIRONMENTAL WORKS

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

Other Features:

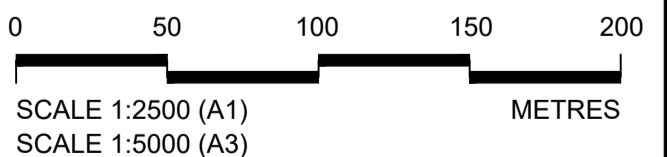
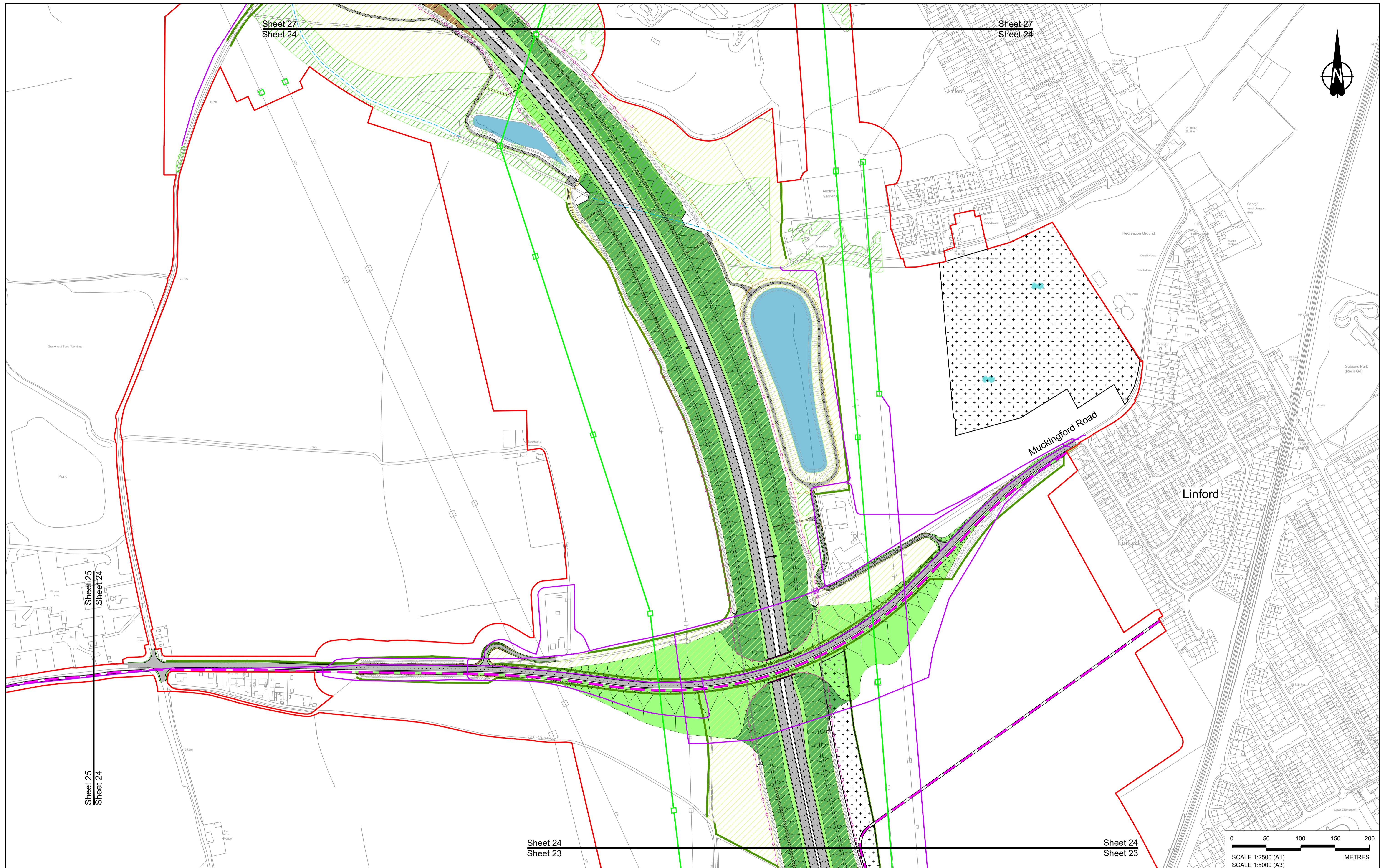
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.5	Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 23				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10020				



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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

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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
	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

FLOOD COMPENSATION AREA

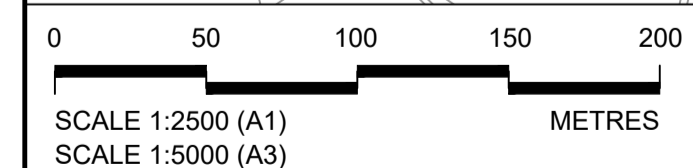
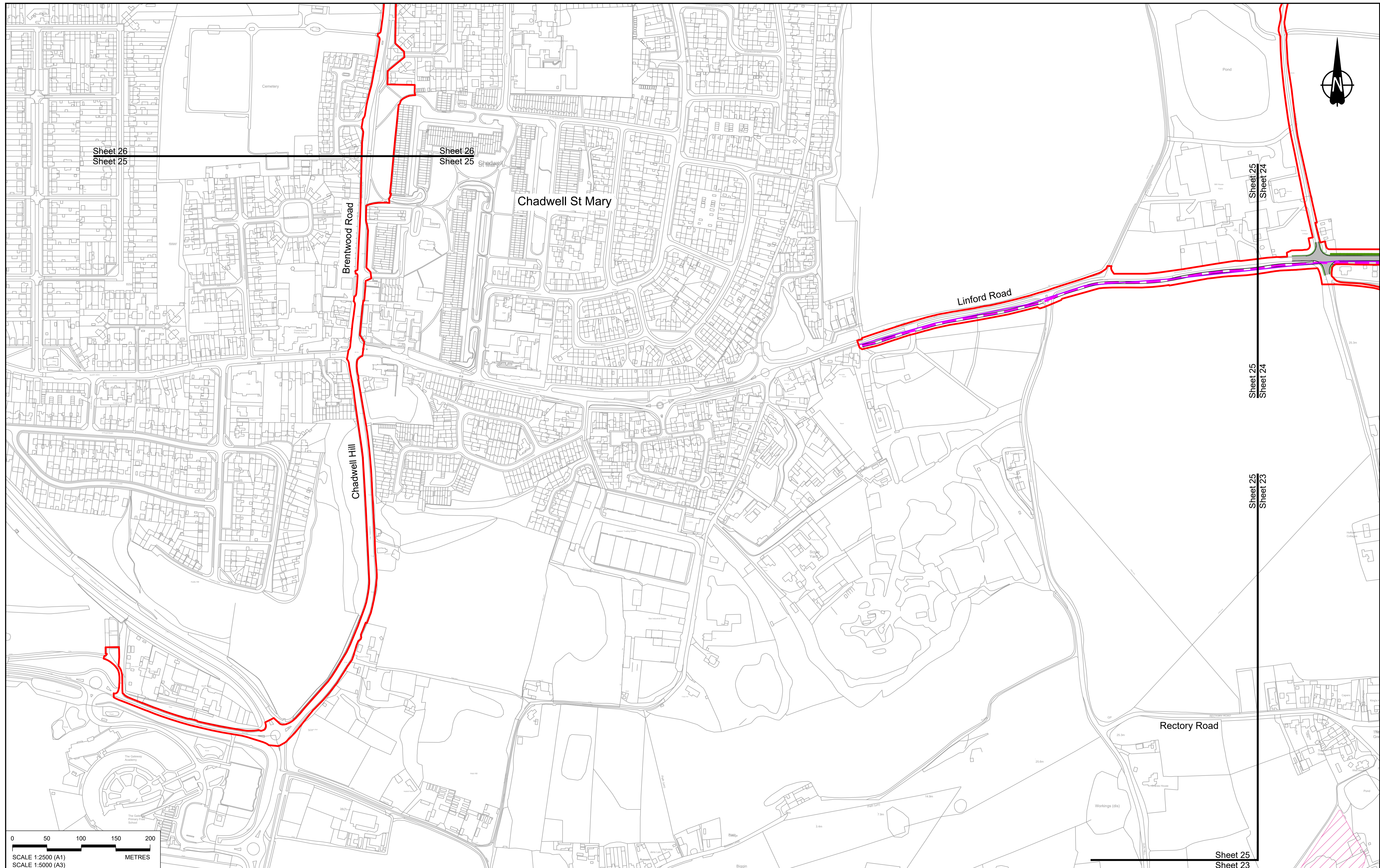
	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing

Client:

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 24				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10021				



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'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
- 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

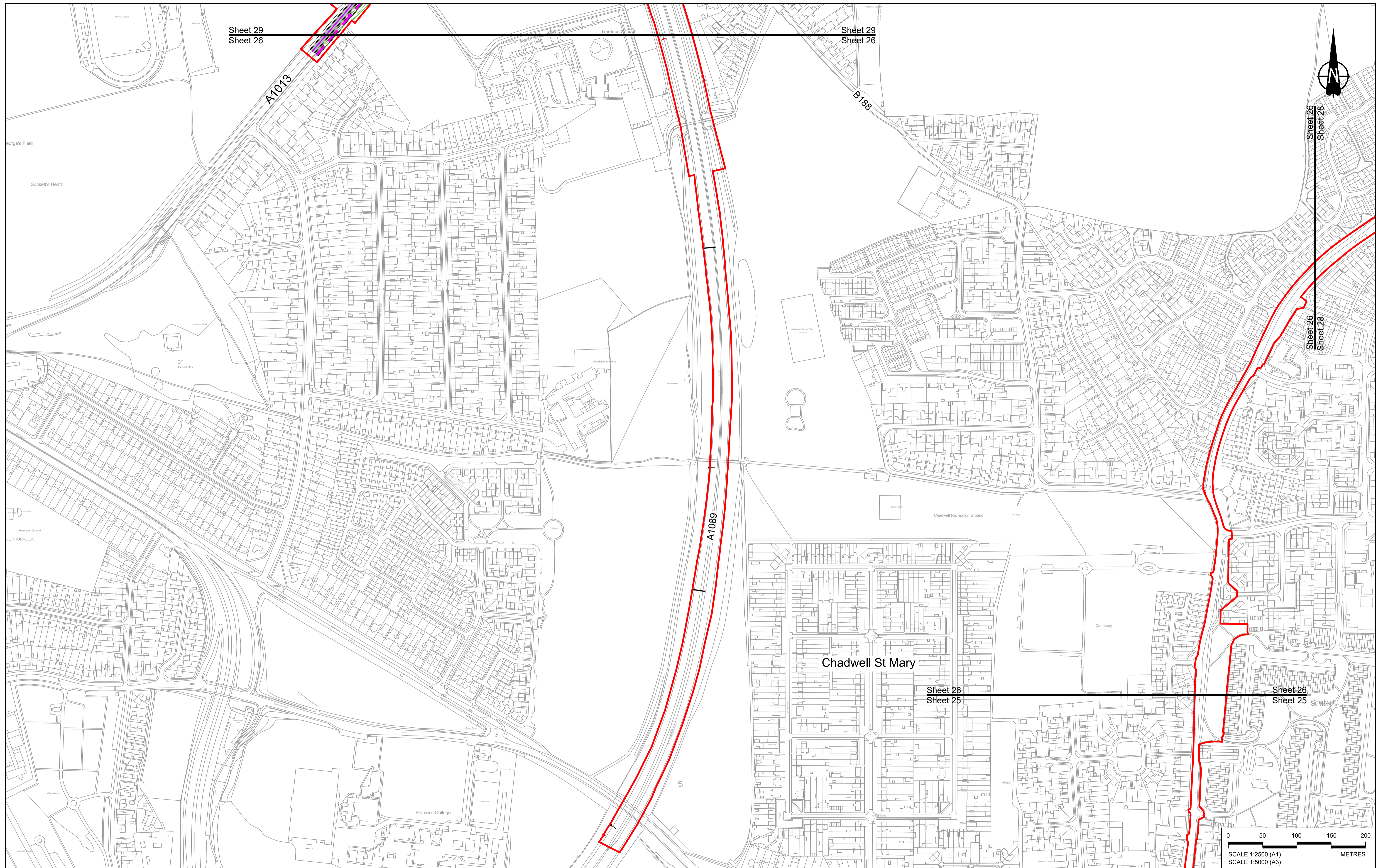
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

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

Client: **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 25				
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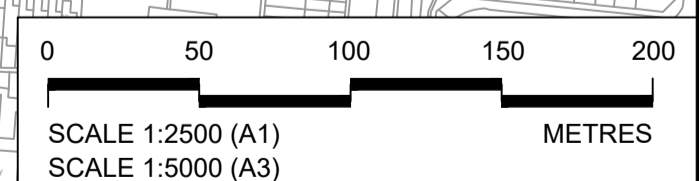
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

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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
	Maintenance access
	Car park
	Rendezvous point

PROPOSED ENVIRONMENTAL WORKS

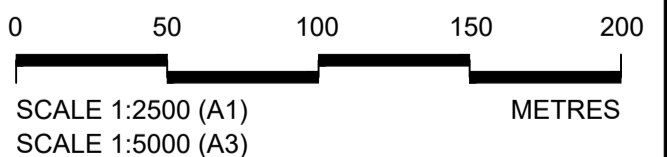
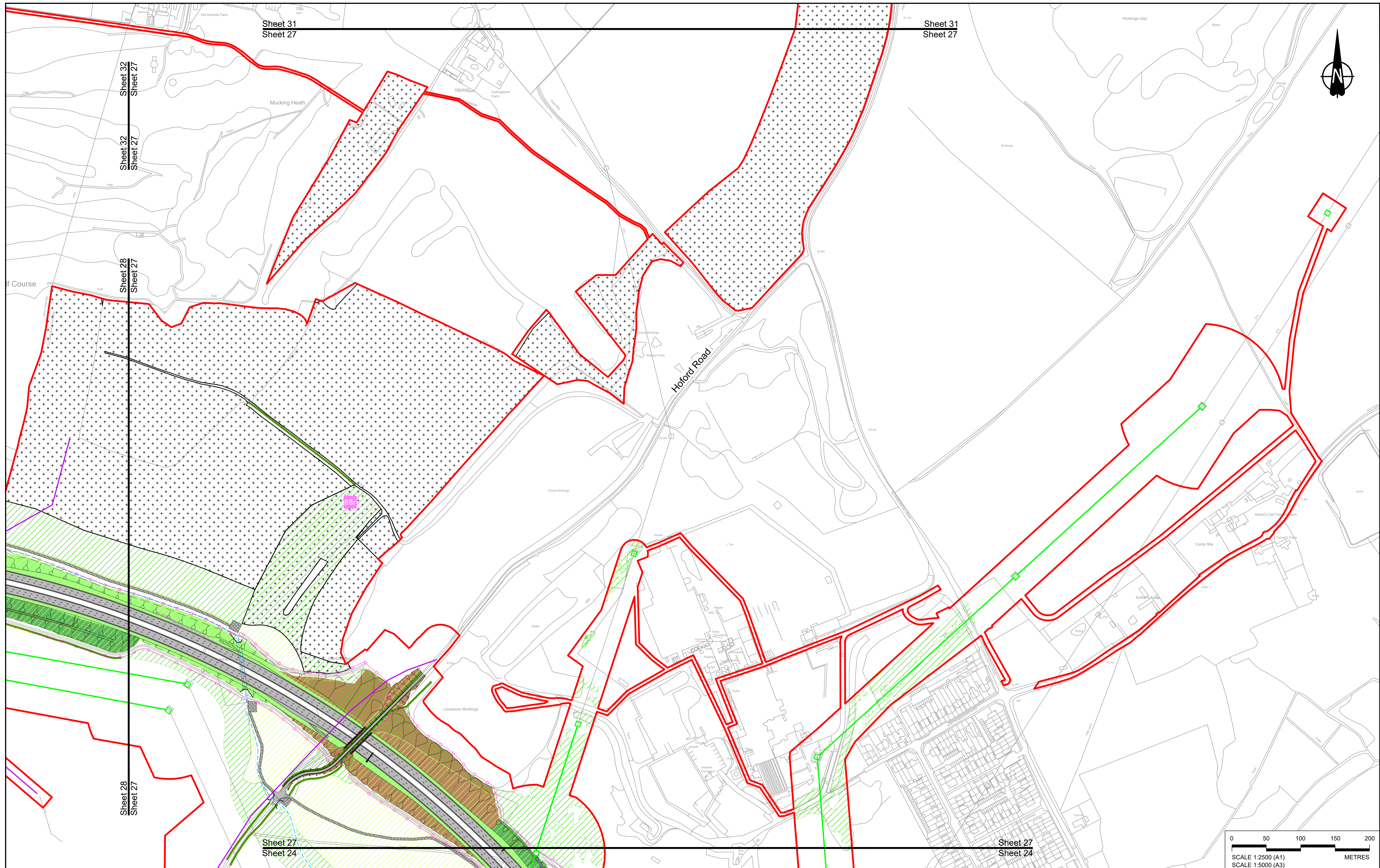
	Woodland planting
	Grassland planting
	Ecological habitat creation and receptor site for protected species
	Temporary ecological habitat
	Bat Barn structure
	Ecological pond

	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 26				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10023				



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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 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

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

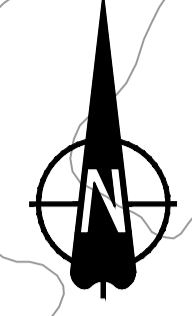
Client:

Project: **LOWER THAMES CROSSING**

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

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Orsett Golf Course

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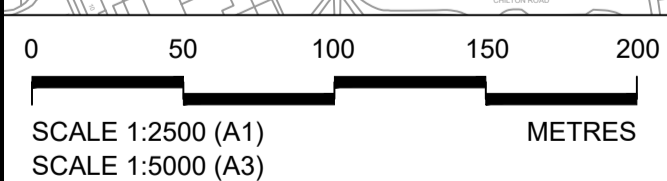
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Sheet 28
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Brentwood Road

Hobord Road

Chadwell St Mary



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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

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

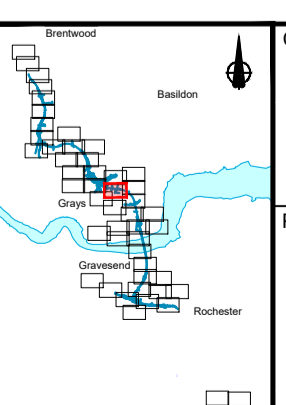
PROPOSED UTILITIES

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- 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

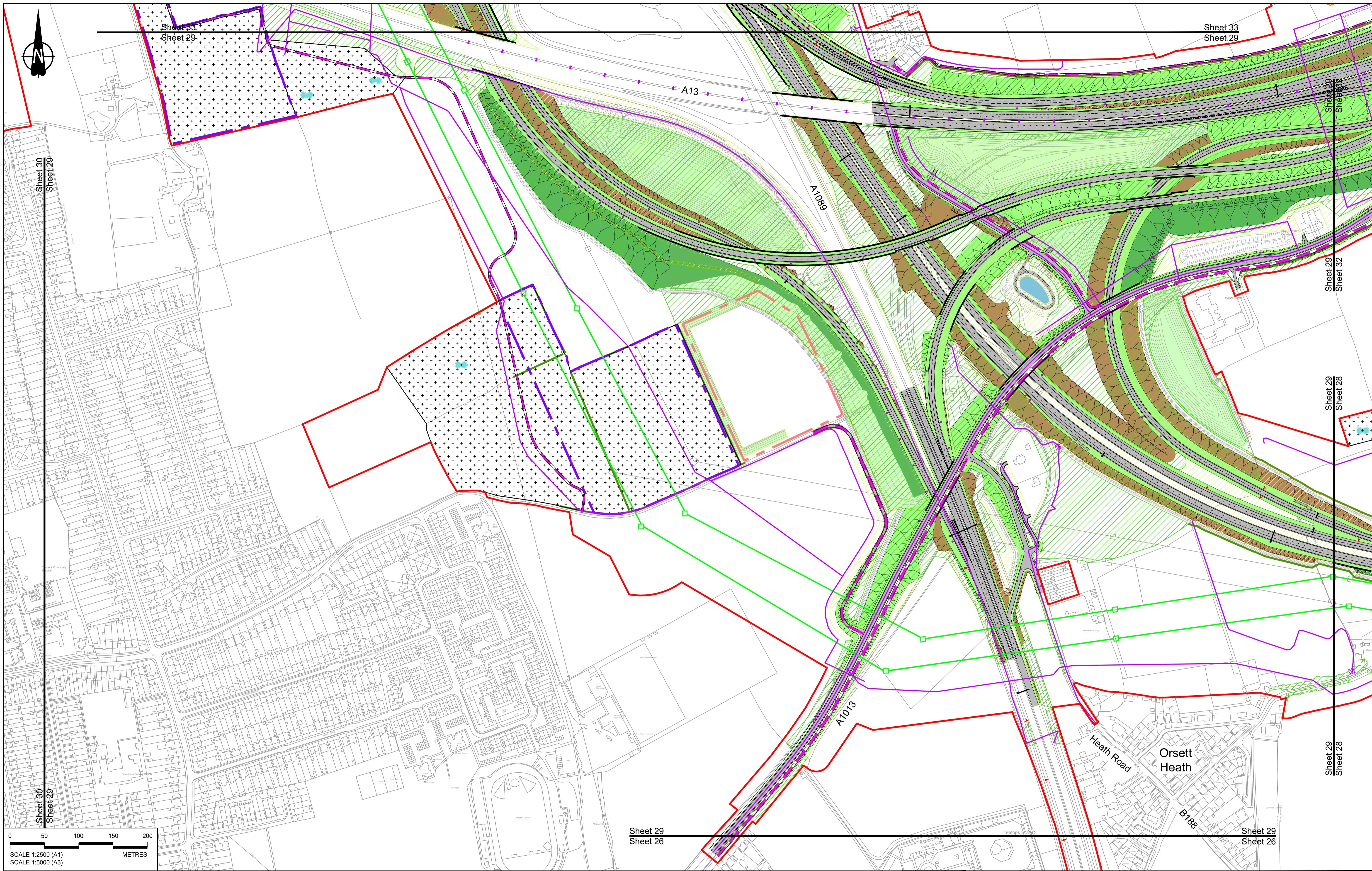
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



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	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 28				
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	SB	19/10/2022	DCO Application	GP	RO	ASB

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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
- 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

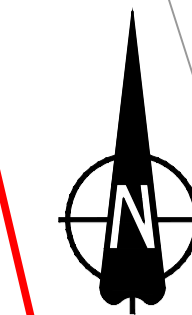
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

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 29				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10026				

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10026.dwg



Wedbridge Road

A13

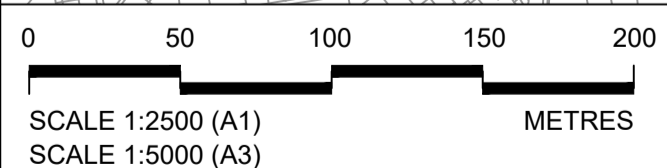
A1012

North
Stifford

Little Thurrock

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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 multitality 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

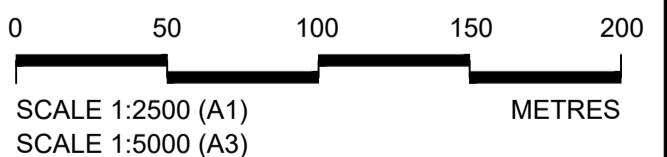
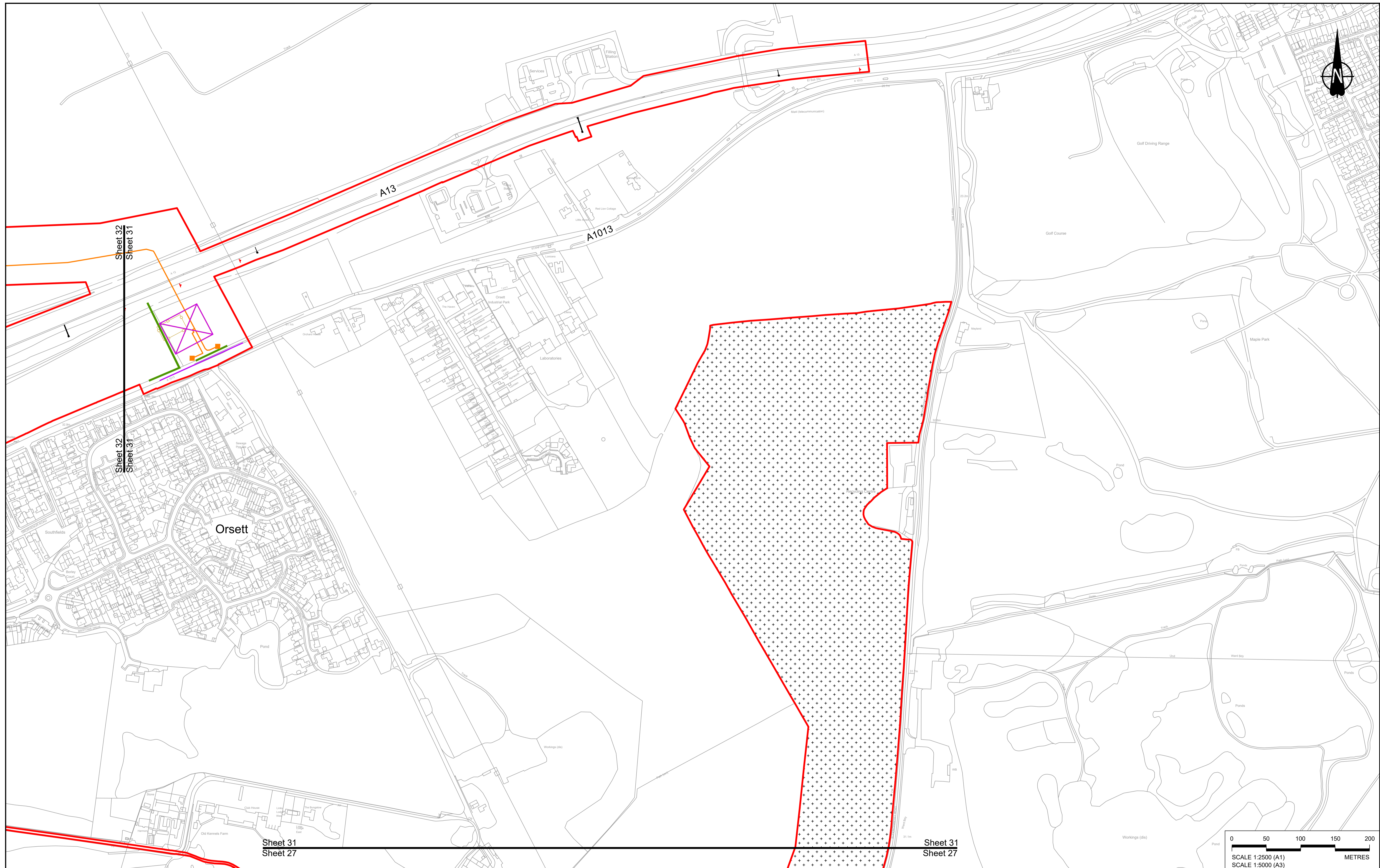
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client

Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 30		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10027		
		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
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Diversion ties into existing network
- Utility compound or substation

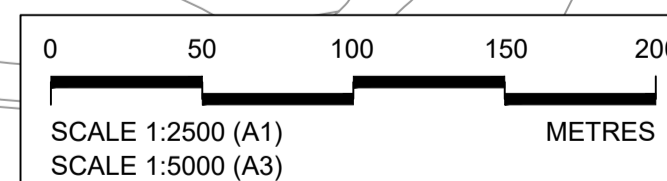
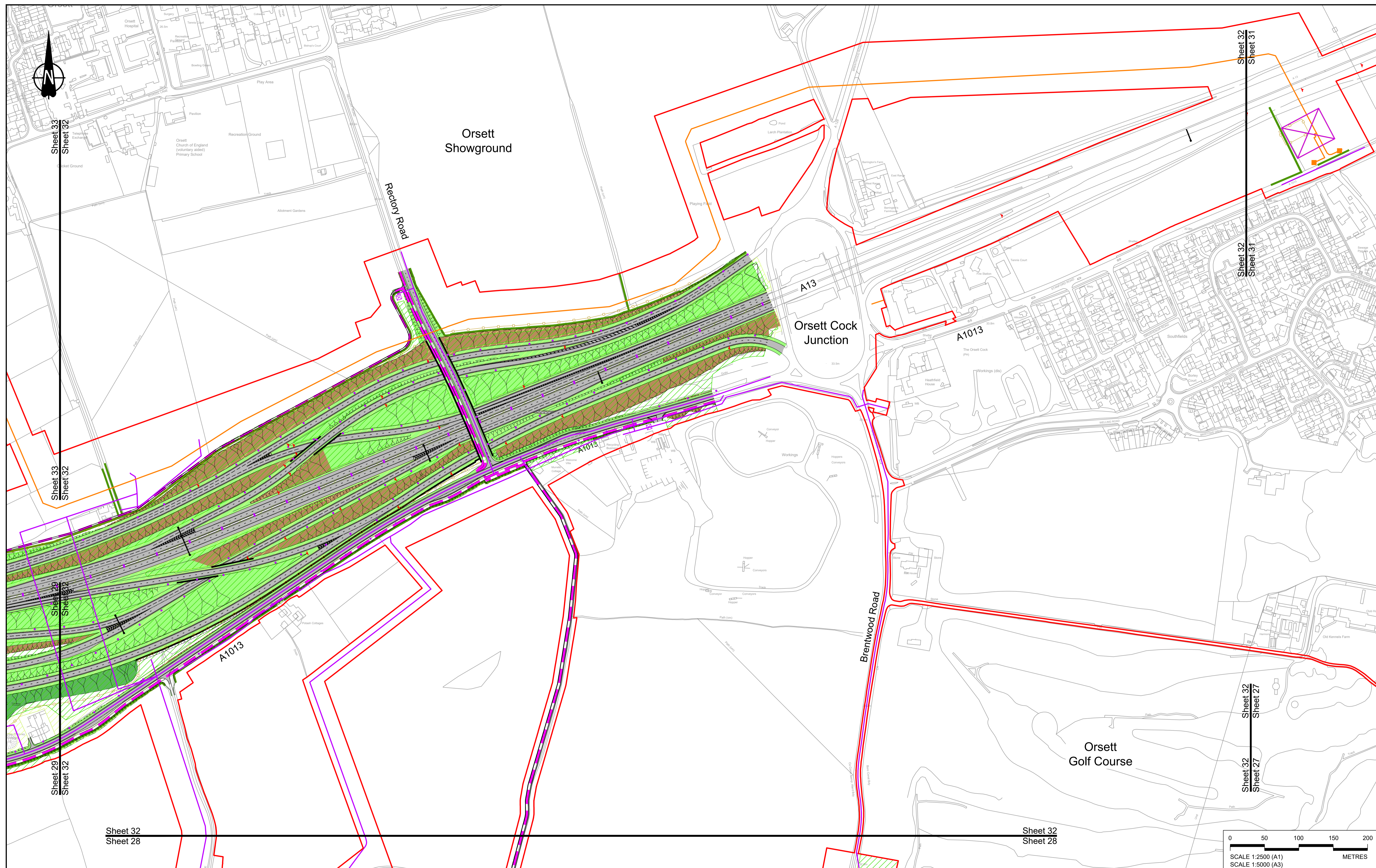
PROPOSED ENVIRONMENTAL WORKS

- 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

LOWER THAMES CROSSING

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



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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

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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

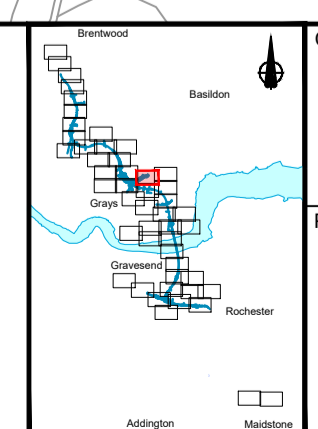
PROPOSED UTILITIES

	Underground gas diversion
	Resigned or modified overhead electricity line
	Underground multiutility alignment
	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

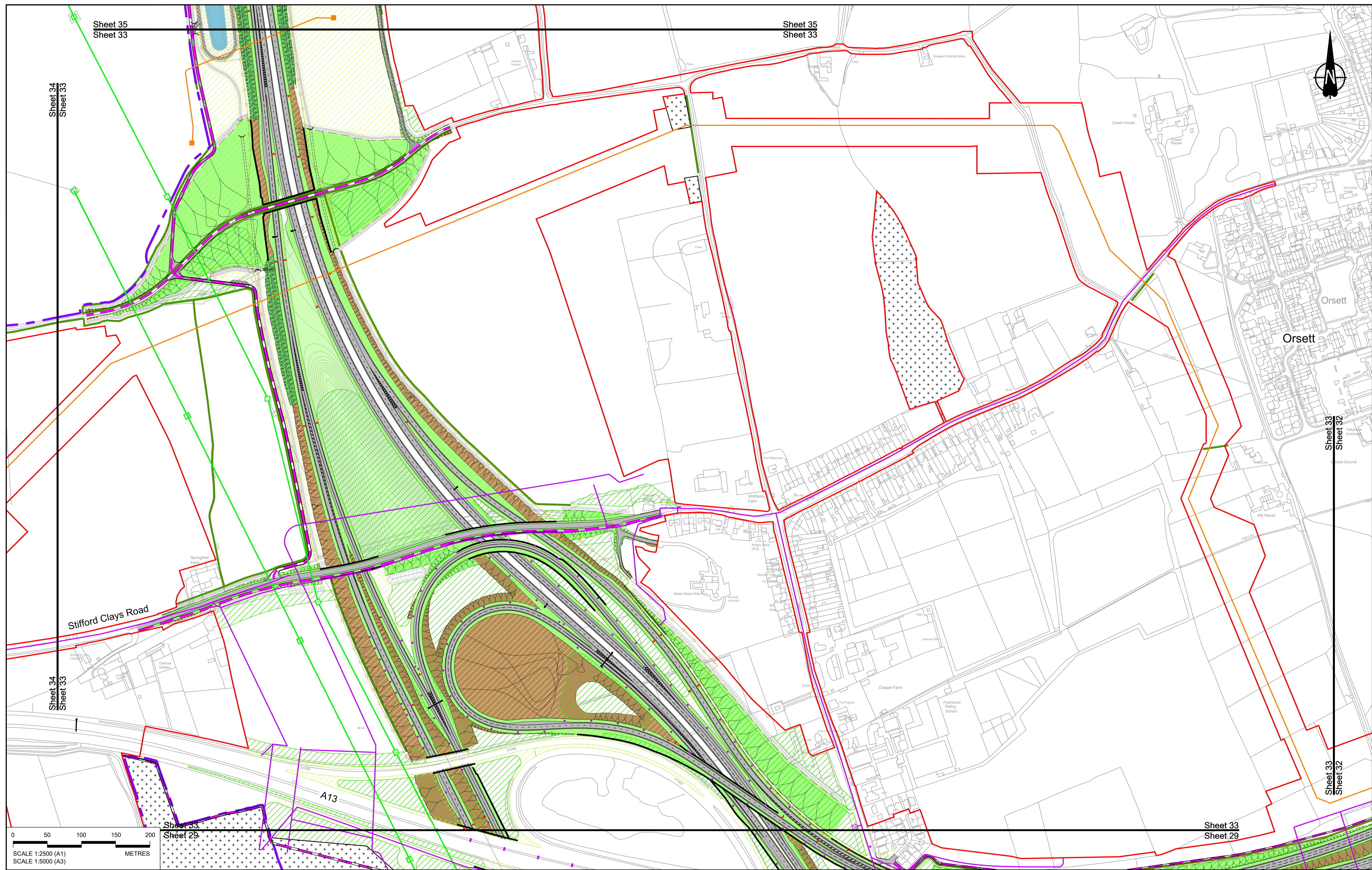
	Flood Compensation Area
	Open space provision, replacement open space or replacement common land
	Hedgerow
	Watercourse diversion
	Ecological fencing (badger)
	Acoustic barrier
	Fencing



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 32				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10029				



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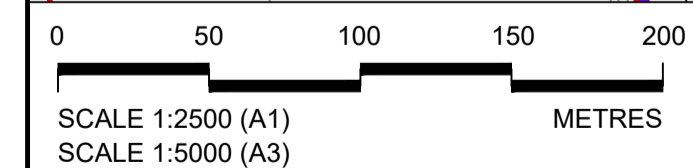
Sheet 33
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GP	RO	ASB

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

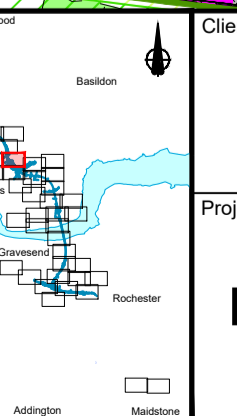
	Culvert
	Gantry
	Lighting
	Infiltration basin, detention basin or retention pond
	Walking, cycling and horse-riding routes
	Green Roof for Tunnel Service Building
	Tunnel
	Ground protection tunnel

	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 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

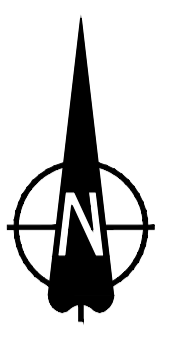
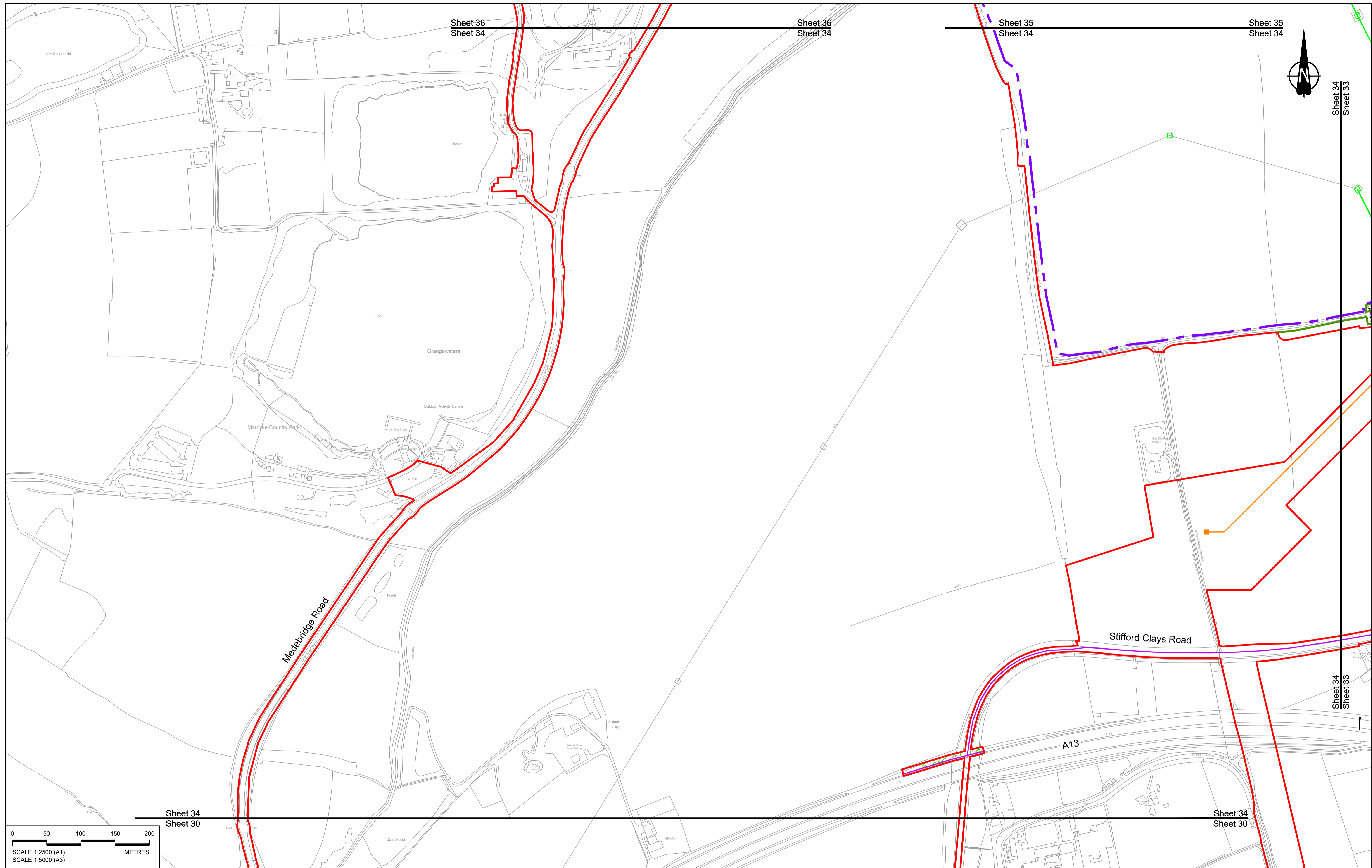


Client

Project

LOWER THAMES CROSSING

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



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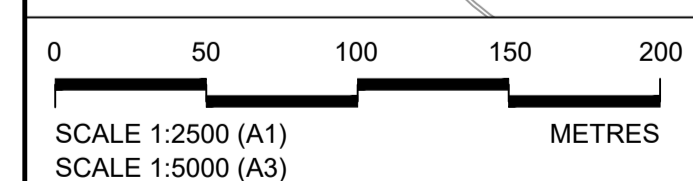
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P01	SB	19/10/2022	DCO Application	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

BOUNDARIES		Culvert	Earthworks - Cutting	PROPOSED UTILITIES	PROPOSED ENVIRONMENTAL WORKS	Flood Compensation Area
Order Limits	Local Authority boundary	Traffic sign	Earthworks - Embankment	Underground gas diversion	Woodland planting	Open space provision, replacement open space or replacement common land
Proposed replacement travellers site	Proposed replacement travellers site	Gantry	Earthworks - False cutting and landscaping	Realigned or modified overhead electricity line	Grassland planting	Hedgerow
		Lighting	Verge	Underground multiutility alignment	Ecological habitat creation and receptor site for protected species	Watercourse diversion
		Infiltration basin, detention basin or retention pond	Retaining wall	Division ties into existing network	Temporary ecological habitat	Ecological fencing (badger)
		Walking, cycling and horse-riding routes	Water pipe & self-regulating valve	Utility compound or substation	Bat Barn structure	Acoustic barrier
		Green Roof for Tunnel Service Building	Maintenance access		Ecological pond	Fencing
		Tunnel	Car park			
		Ground protection tunnel	Rendezvous point			

PROPOSED ENGINEERING AND CONSTRUCTION
New carriageway
Overbridge
Underpass

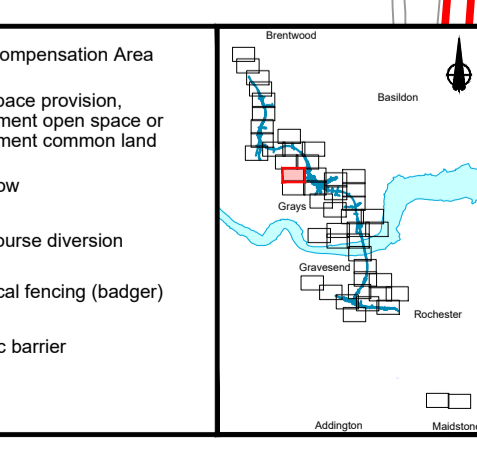
Culvert
Traffic sign
Gantry
Lighting
Infiltration basin, detention basin or retention pond
Walking, cycling and horse-riding routes
Green Roof for Tunnel Service Building
Tunnel
Ground protection tunnel

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
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

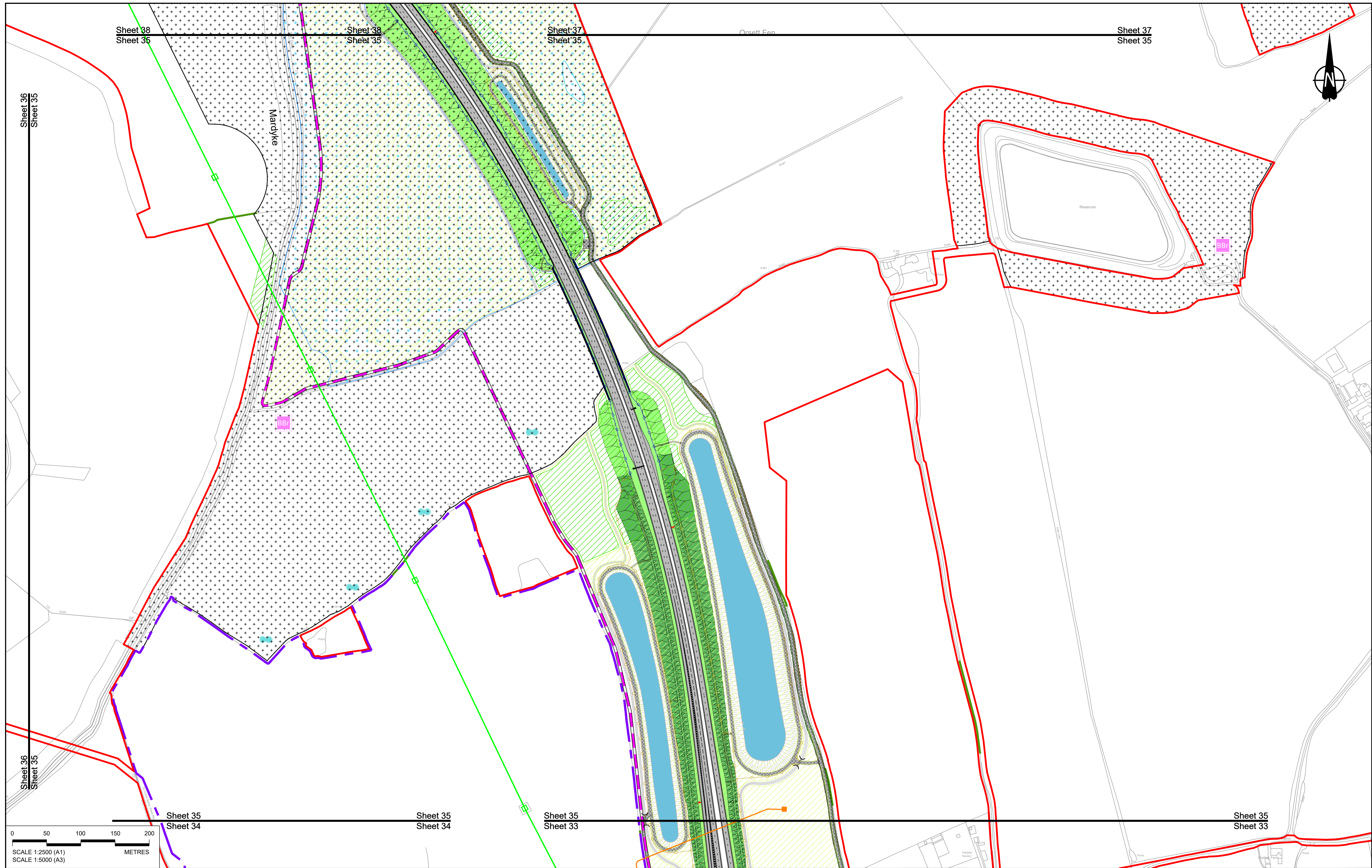
Flood Compensation Area
Open space provision, replacement open space or replacement common land
Hedgerow
Watercourse diversion
Ecological fencing (badger)
Acoustic barrier
Fencing



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	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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Mardyke

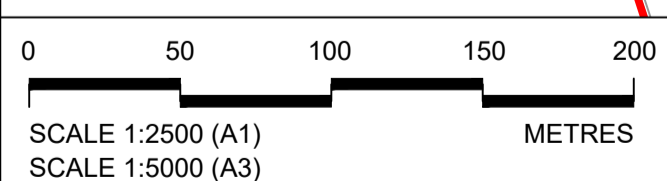
Reservoir

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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

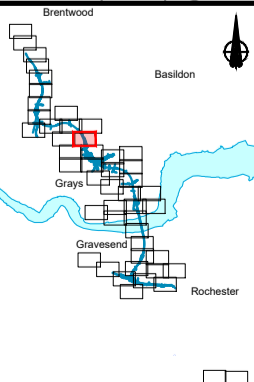
PROPOSED UTILITIES

- 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

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 35				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10032				

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

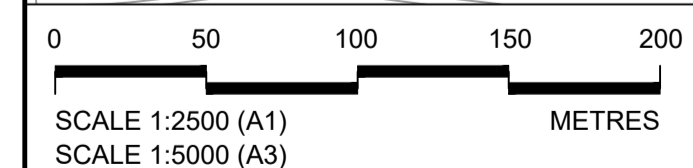
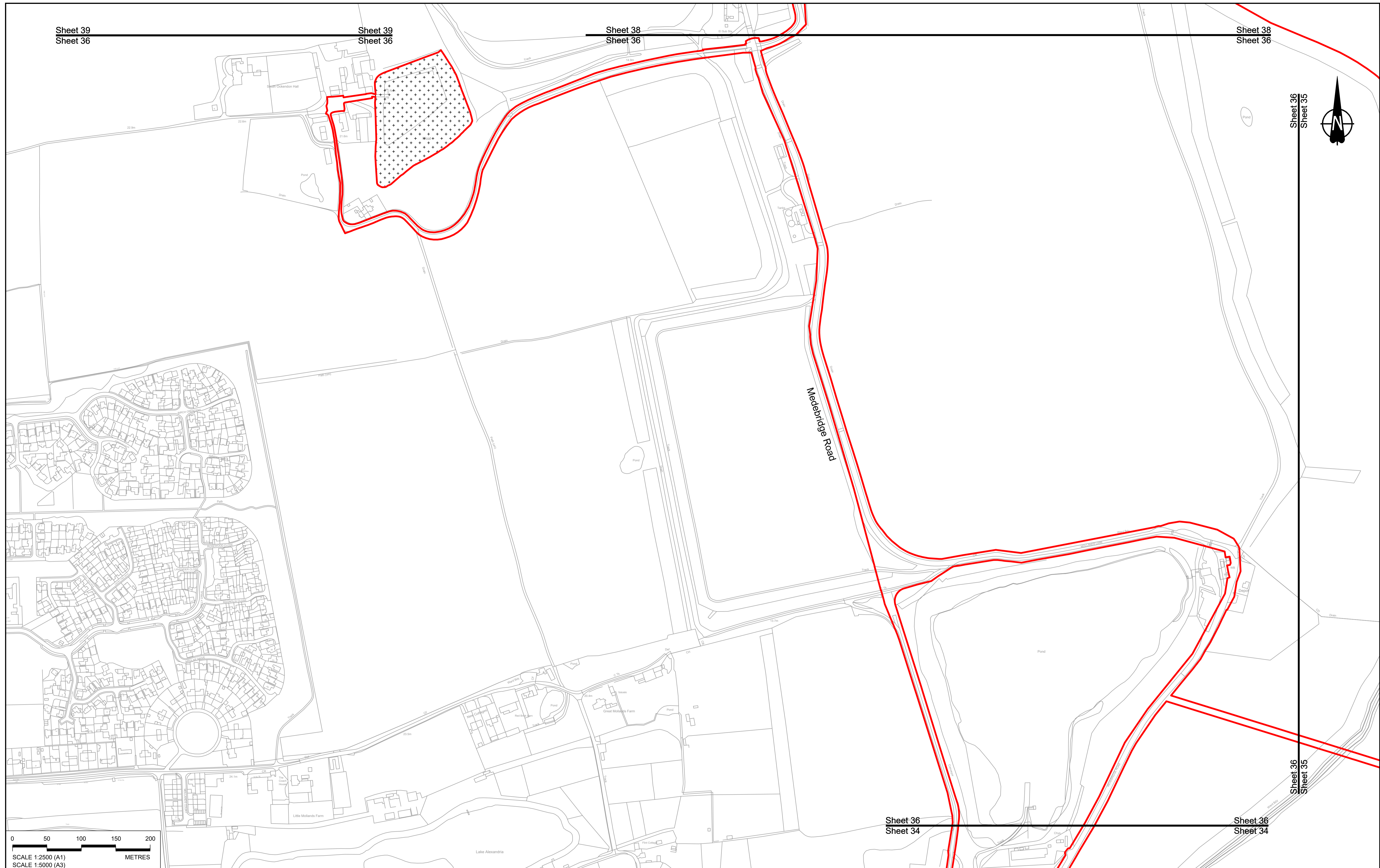
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1. The proposed arrangement of the Scheme is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).

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

BOUNDARIES		PROPOSED ENGINEERING AND CONSTRUCTION		PROPOSED UTILITIES		PROPOSED ENVIRONMENTAL WORKS		Flood Compensation Area		Client	
	Order Limits		New carriageway		Underground gas diversion		Woodland planting		Flood Compensation Area		national highways
	Local Authority boundary		Overbridge		Realigned or modified overhead electricity line		Grassland planting		Open space provision, replacement open space or replacement common land		
	Proposed replacement travellers site		Retaining wall		Underground multility alignment		Ecological habitat creation and receptor site for protected species		Watercourse diversion		
	Culvert		Water pipe & self-regulating valve		Diversion ties into existing network		Temporary ecological habitat		Ecological fencing (badger)		
	Gantry		Maintenance access		Utility compound or substation		Bat Barn structure		Acoustic barrier		
	Lighting		Car park				Ecological pond		Fencing		
	Infiltration basin, detention basin or retention pond		Rendezvous point								
	Walking, cycling and horse-riding routes										
	Green Roof for Tunnel Service Building										
	Tunnel										
	Ground protection tunnel										

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

Scale 1:2500

Project LOWER THAMES CROSSING

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10033.dwg



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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

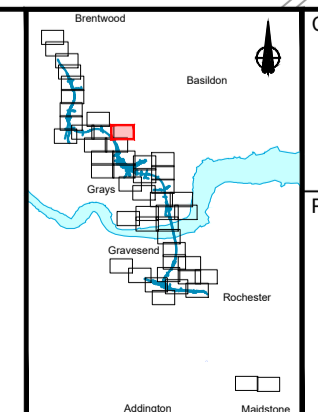
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multiutility alignment
- Division ties into existing network
- Utility compound or substation

PROPOSED ENVIRONMENTAL WORKS

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

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

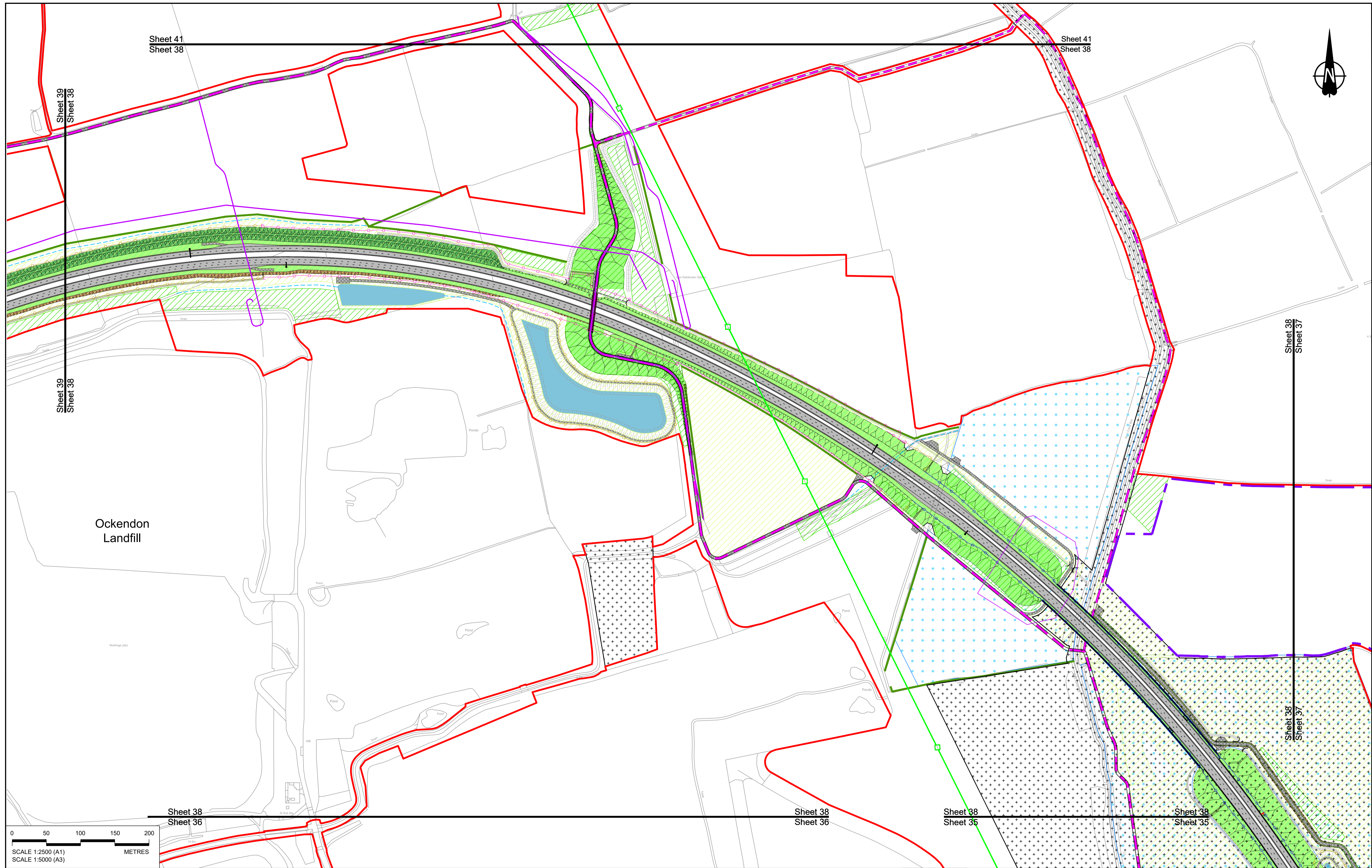
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



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	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 37				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10034				



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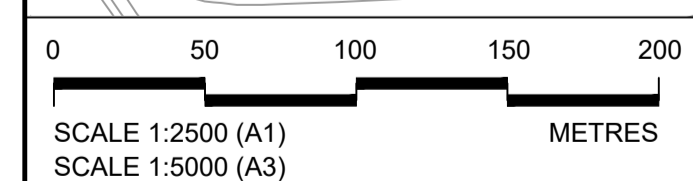
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	SB	19/10/2022	DCO Application	GP	RO	ASB

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

PROPOSED UTILITIES

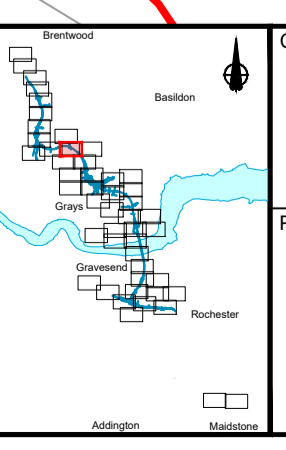
- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitenancy alignment
- Diversion ties into existing network
- Utility compound or substation

PROPOSED ENVIRONMENTAL WORKS

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

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

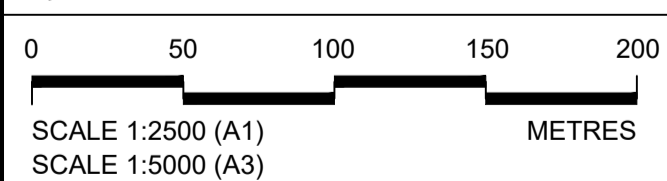
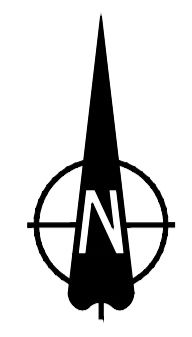
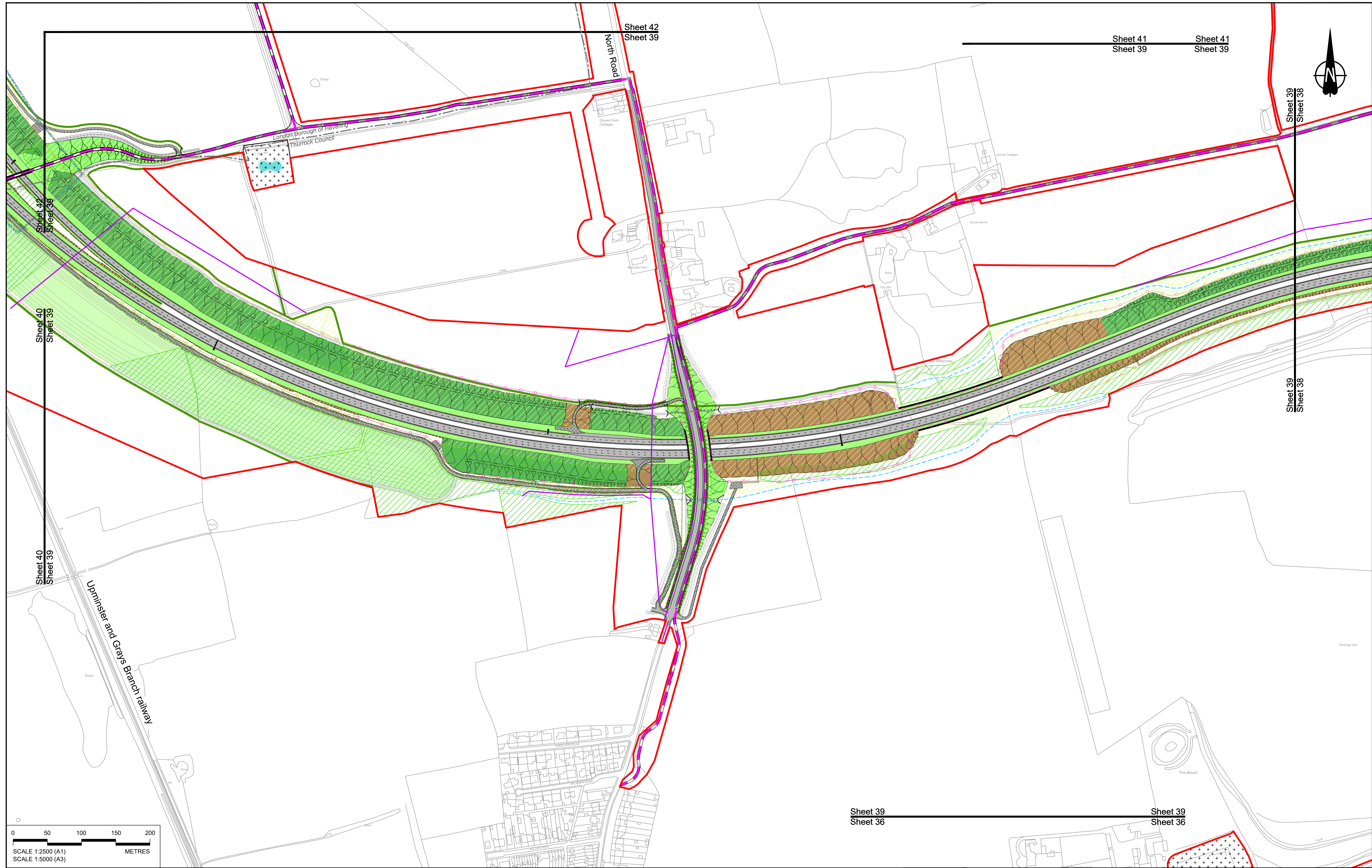
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



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	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 38				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10035				



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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

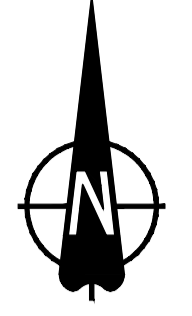
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor sites for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

- 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 39				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10036				



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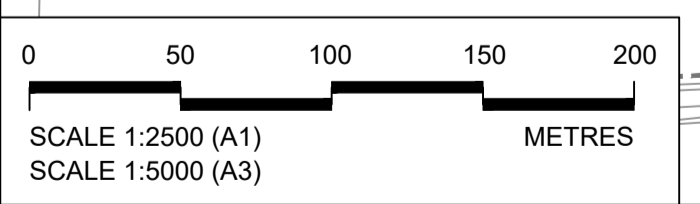
Uxminster and Grays Branch railway

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

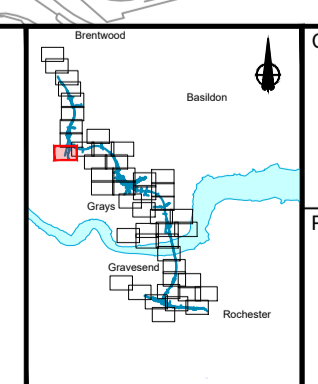
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - False cutting and landscaping
- Verge
- Retaining wall
- Water pipe & self-regulating valve
- Maintenance access
- Car park
- Rendezvous point

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

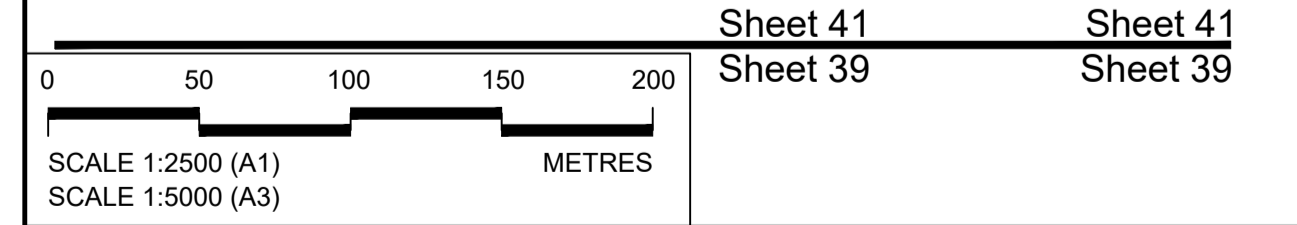
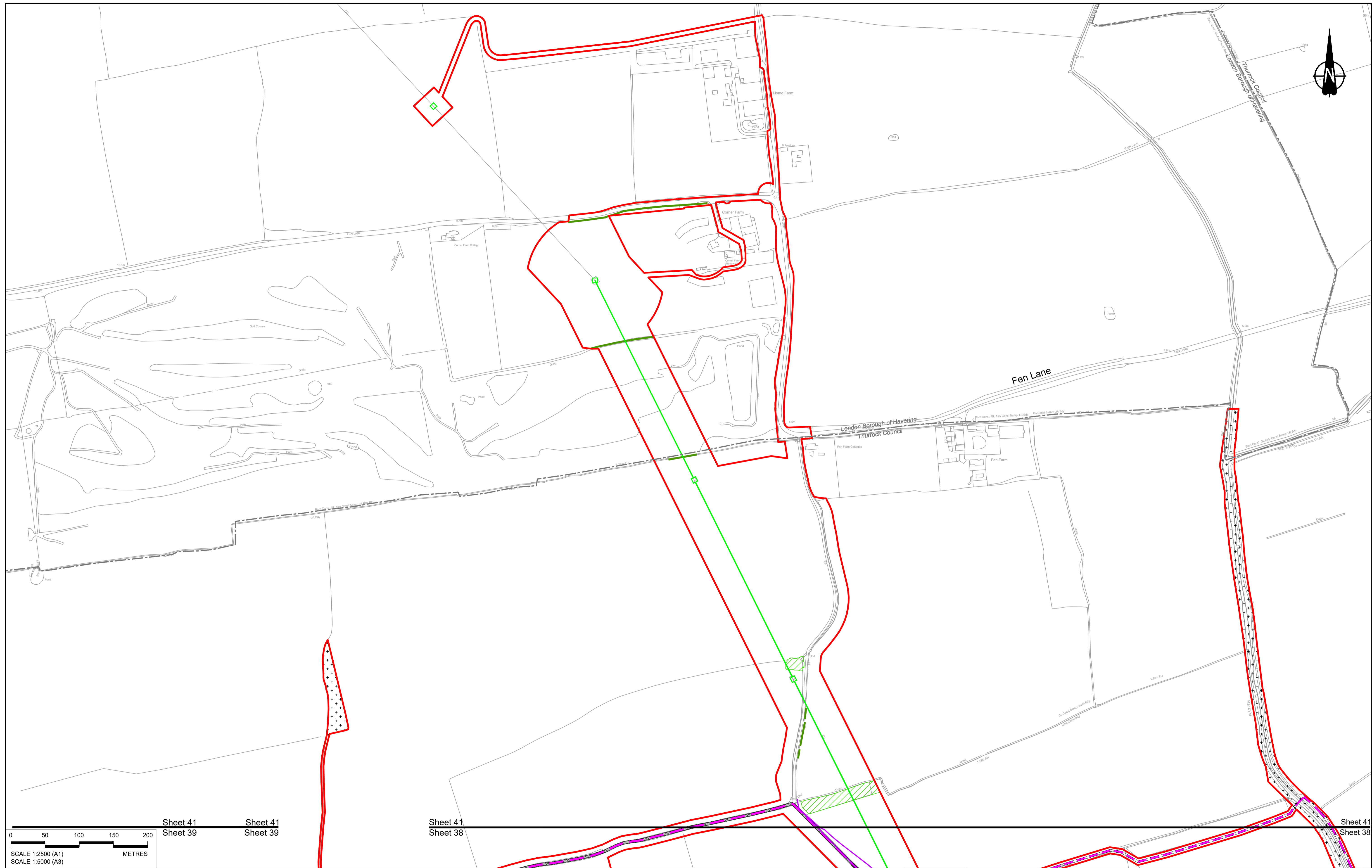


Client: national highways

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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<table border="1"> <tr> <td>P01</td> <td>S8</td> <td>19/10/2022</td> <td>DCO Application</td> <td>GP</td> <td>RO</td> <td>ASB</td> </tr> <tr> <td>Rev</td> <td>Status</td> <td>Rev. Date</td> <td>Purpose of revision</td> <td>Drawn</td> <td>Check'd</td> <td>Apprv'd</td> </tr> </table>	P01	S8	19/10/2022	DCO Application	GP	RO	ASB	Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	S8	19/10/2022	DCO Application	GP	RO	ASB								
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd								

<p>BOUNDARIES</p> <ul style="list-style-type: none"> Order Limits Local Authority boundary Proposed replacement travellers site <p>PROPOSED ENGINEERING AND CONSTRUCTION</p> <ul style="list-style-type: none"> New carriageway Overbridge Underpass
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<ul style="list-style-type: none"> 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
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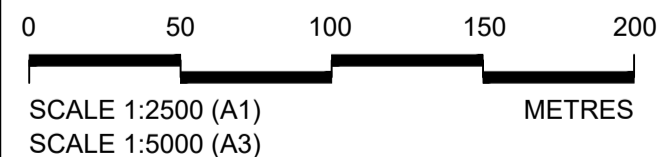
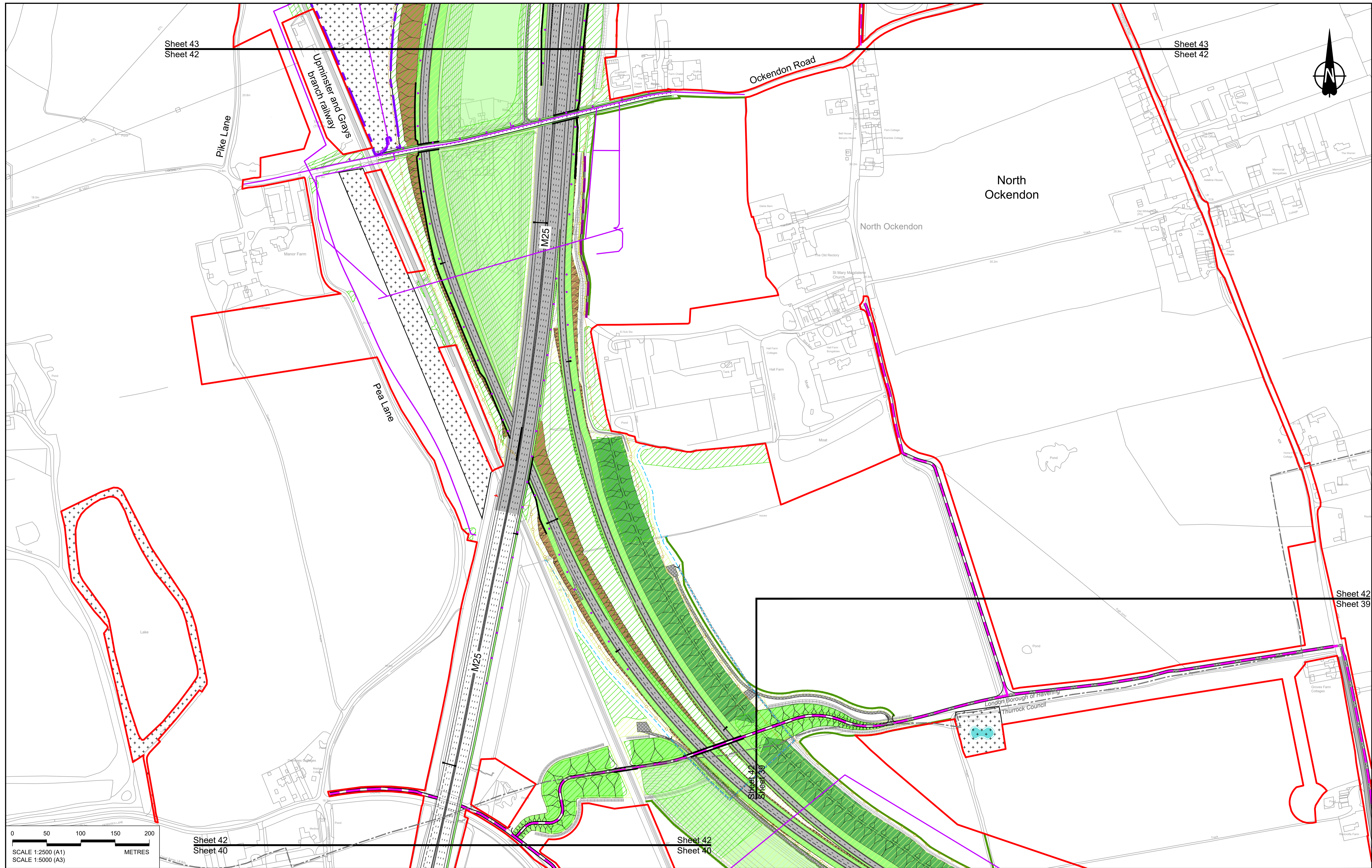
<ul style="list-style-type: none"> Earthworks - Cutting Earthworks - Embankment Earthworks - False cutting and landscaping Verge Retaining wall Water pipe & self-regulating valve Maintenance access Car park Rendezvous point
--

<p>PROPOSED UTILITIES</p> <ul style="list-style-type: none"> Underground gas diversion Realigned or modified overhead electricity line Underground mult utility alignment Division lines into existing network Utility compound or substation

<p>PROPOSED ENVIRONMENTAL WORKS</p> <ul style="list-style-type: none"> Woodland planting Grassland planting Ecological habitat creation and receptor site for protected species Temporary ecological habitat Bat Barn structure Ecological pond
--

<ul style="list-style-type: none"> Flood Compensation Area Open space provision, replacement open space or replacement common land Hedgerow Watercourse diversion Ecological fencing (badger) Acoustic barrier Fencing

	<p>Client</p>	<p>Status: DCO Application</p>	<p>Application Document Number: TR010032/APP/2.5</p>	<p>Original Size: A1</p>	<p>Revision: P01</p>
	<p>Project: LOWER THAMES CROSSING</p>	<p>Drawing title: GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 41</p>	<p>Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10039</p>	<p>Scale: 1:2500</p>	



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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

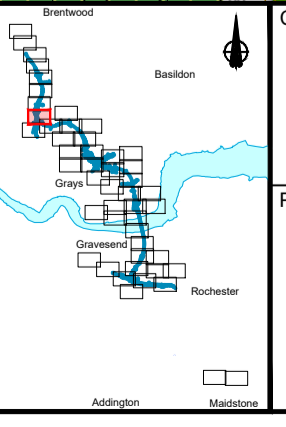
PROPOSED UTILITIES

- 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	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 42				
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10040				

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Thames Chase
Forest

North
Ockendon

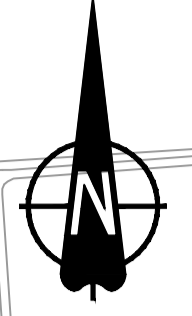
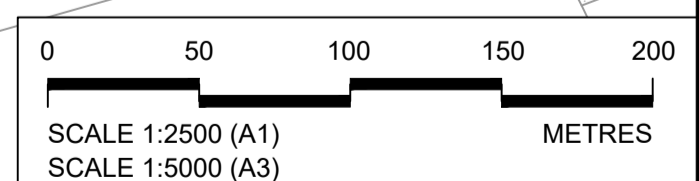
Pike Lane

Clay Tye Road

Ockendon Road

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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

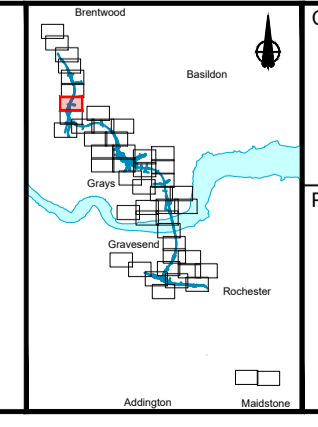
PROPOSED UTILITIES

	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



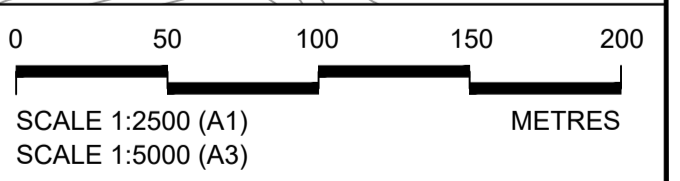
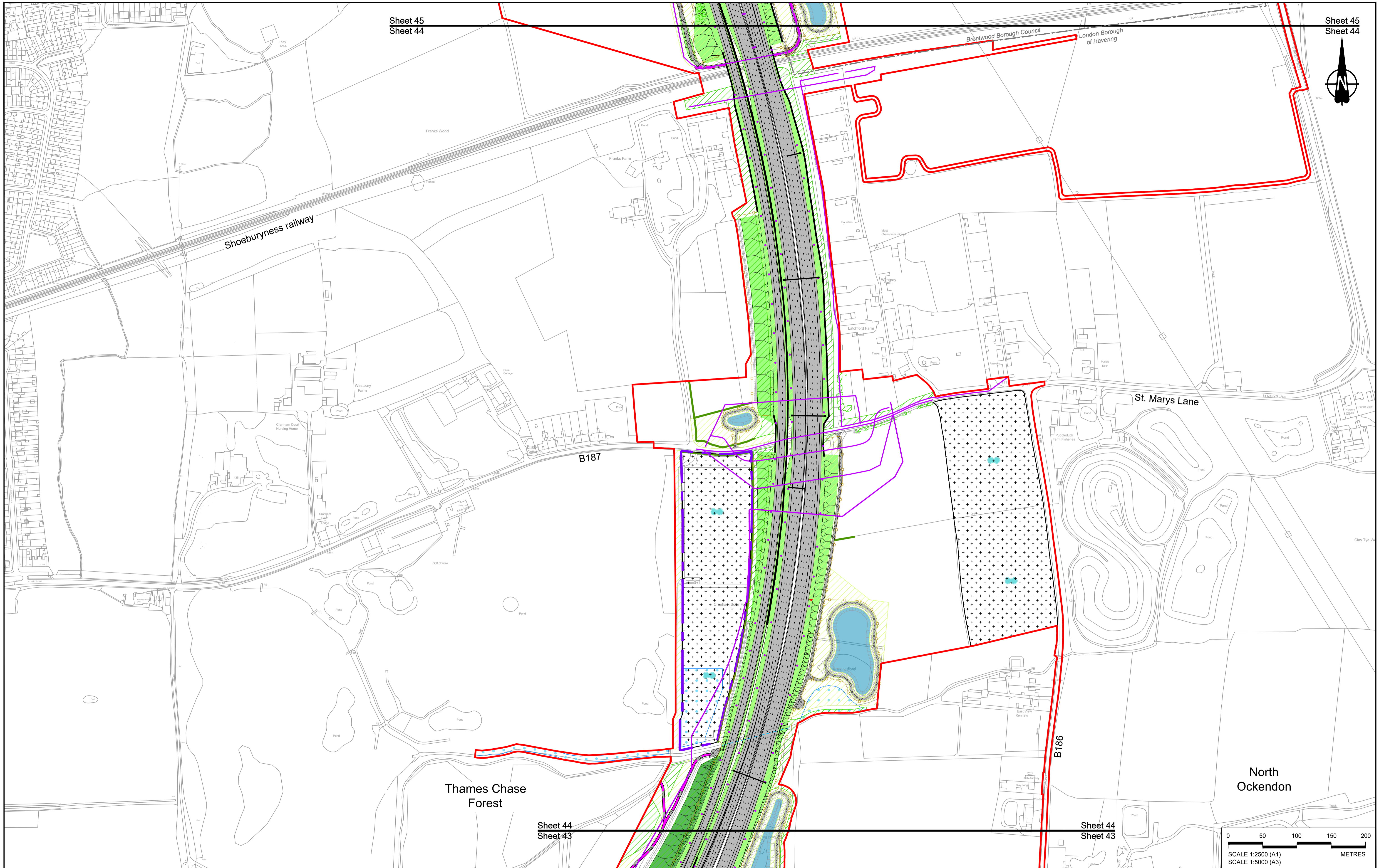
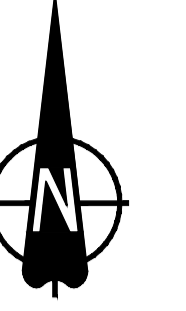
national highways

Client

Project

LOWER THAMES CROSSING

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



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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	Check'd	Appr'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

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

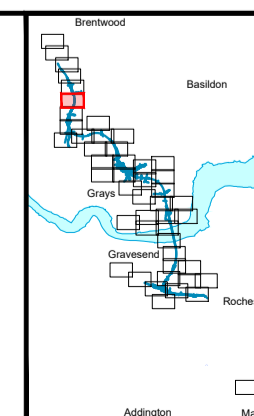
PROPOSED UTILITIES

- Underground gas diversion
- Realigned or modified overhead electricity line
- Underground multitenancy 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

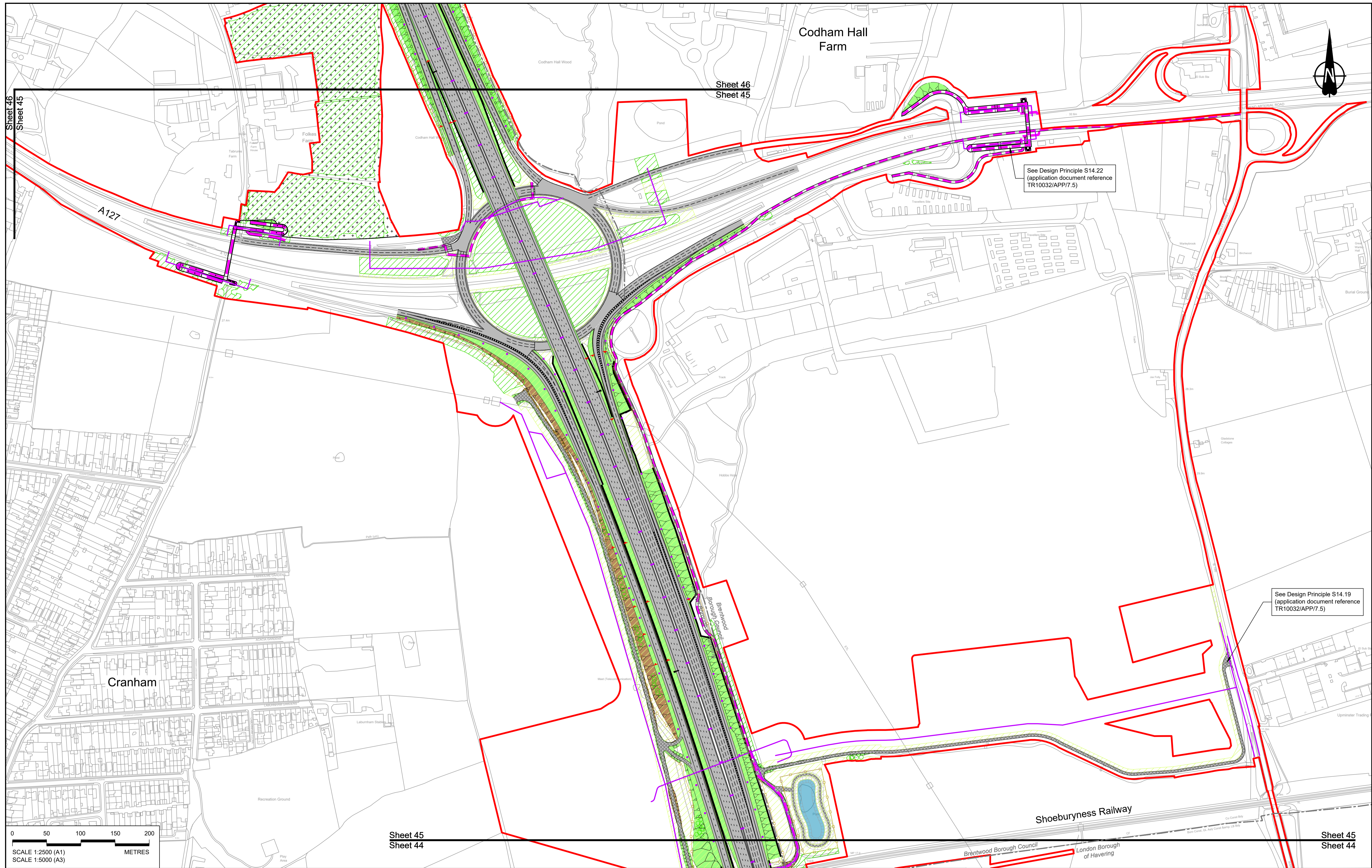
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	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



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0 50 100 150 200
METRES

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

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

NOTES:

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- For Environmental details refer to the Environmental Masterplan (application document reference TR10032/APP/6.2 Fig 2.4) and Environmental Constraints Plan (application document reference TR10032/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 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

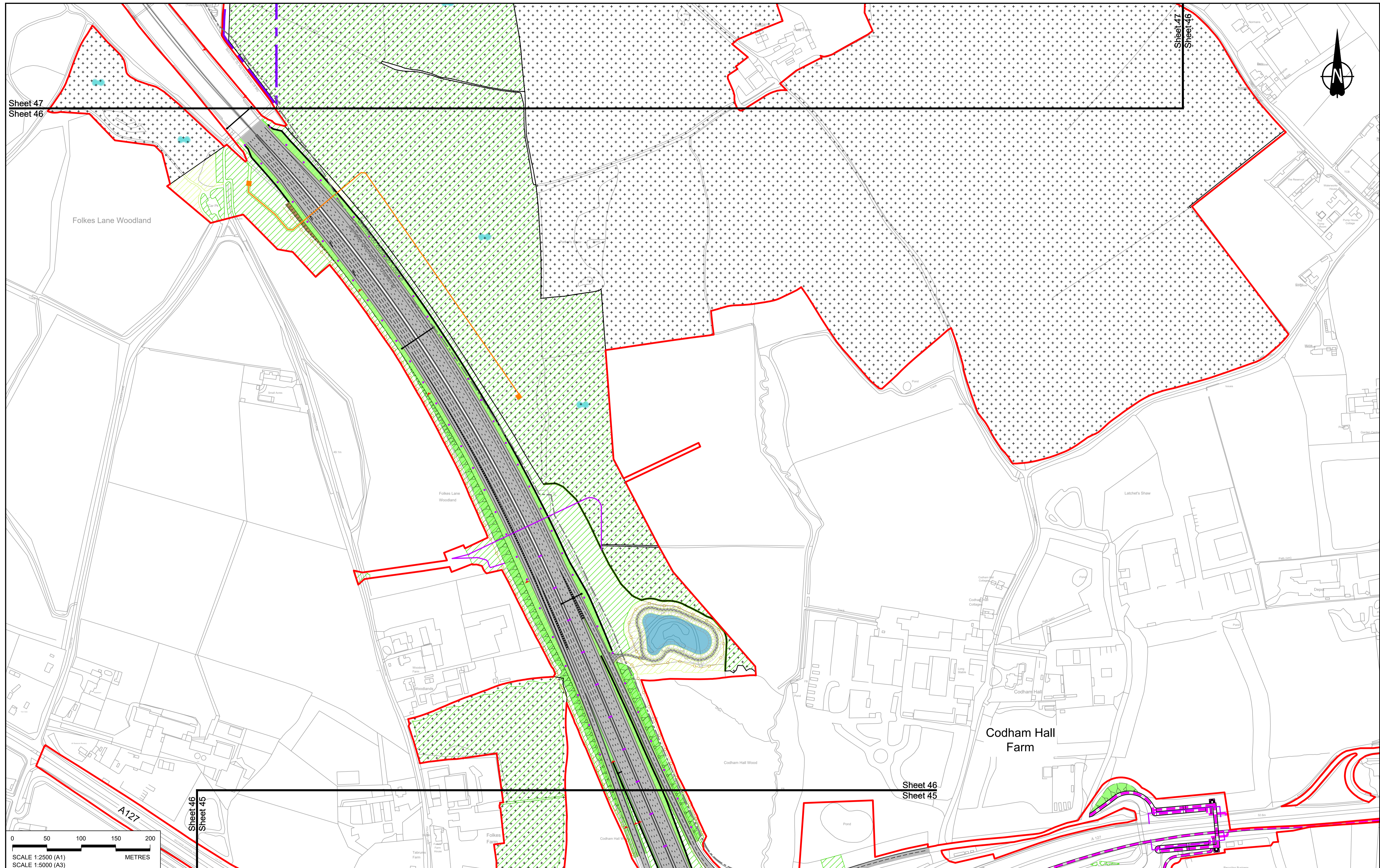
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedge-row
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	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				

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10043.dwg



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

NOTES:

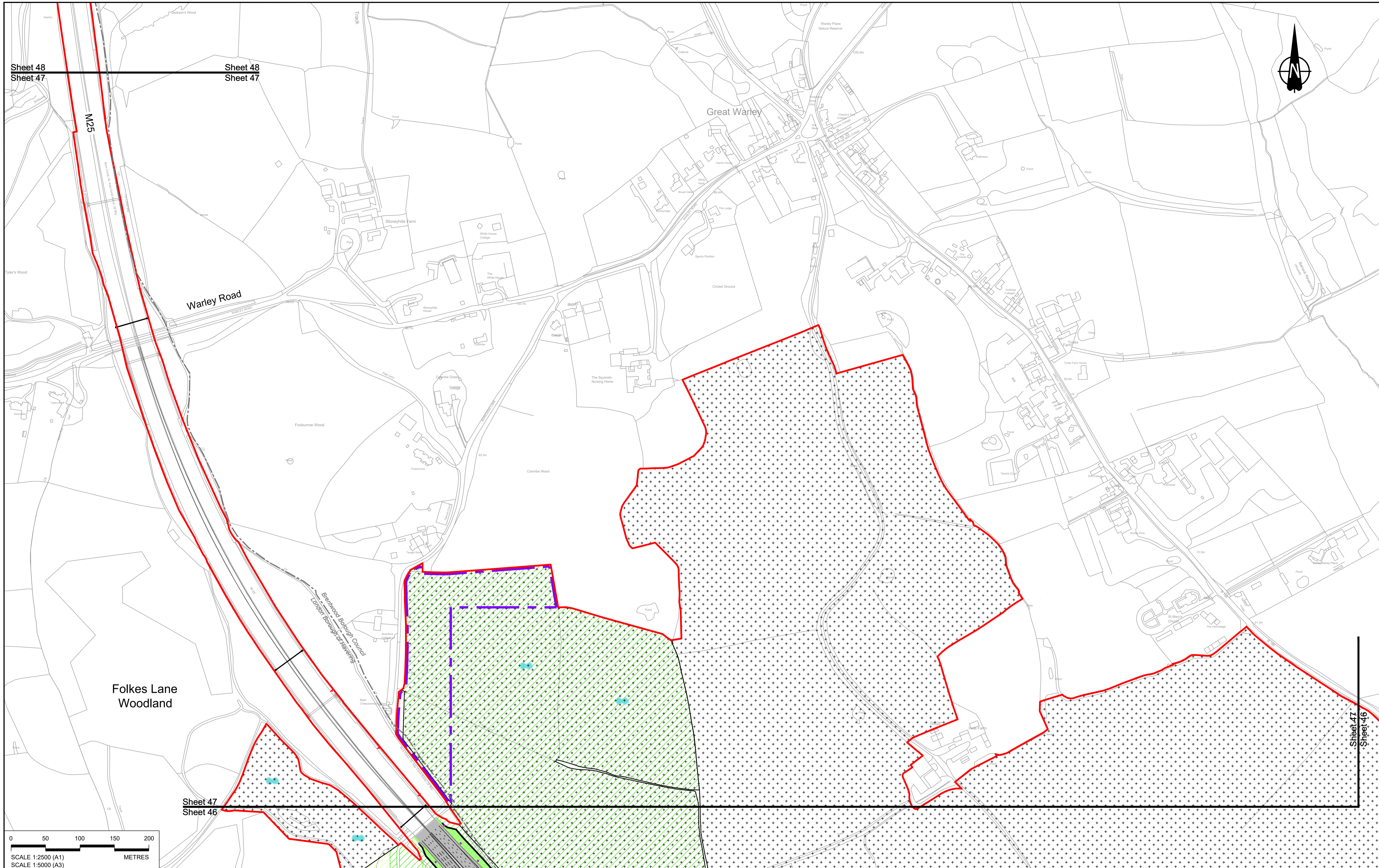
- The proposed arrangement of the Scheme is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
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<p>BOUNDARIES</p> <ul style="list-style-type: none"> Order Limits Local Authority boundary Proposed replacement travellers site <p>PROPOSED ENGINEERING AND CONSTRUCTION</p> <ul style="list-style-type: none"> New carriageway Overbridge Underpass 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Earthworks - Cutting Earthworks - Embankment Earthworks - False cutting and landscaping Verge Retaining wall Water pipe & self-regulating valve Maintenance access Car park Rendezvous point 	<p>PROPOSED UTILITIES</p> <ul style="list-style-type: none"> Underground gas diversion Realigned or modified overhead electricity line Underground multiutility alignment Diversion ties into existing network Utility compound or substation 	<p>PROPOSED ENVIRONMENTAL WORKS</p> <ul style="list-style-type: none"> Woodland planting Grassland planting Ecological habitat creation and receptor site for protected species Temporary ecological habitat Bat Barn structure Ecological pond 	<ul style="list-style-type: none"> 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: national highways

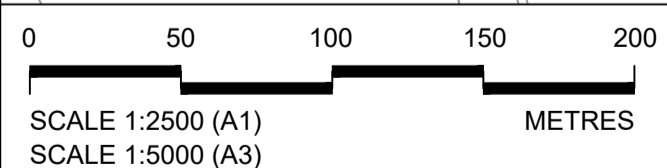
Project: LOWER THAMES CROSSING

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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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

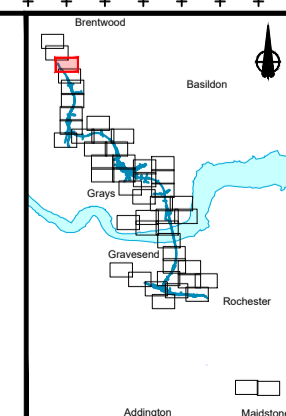
- Woodland planting
- Grassland planting
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Bat Barn structure
- Ecological pond

Other symbols:

- 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

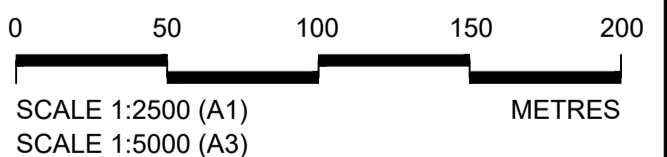
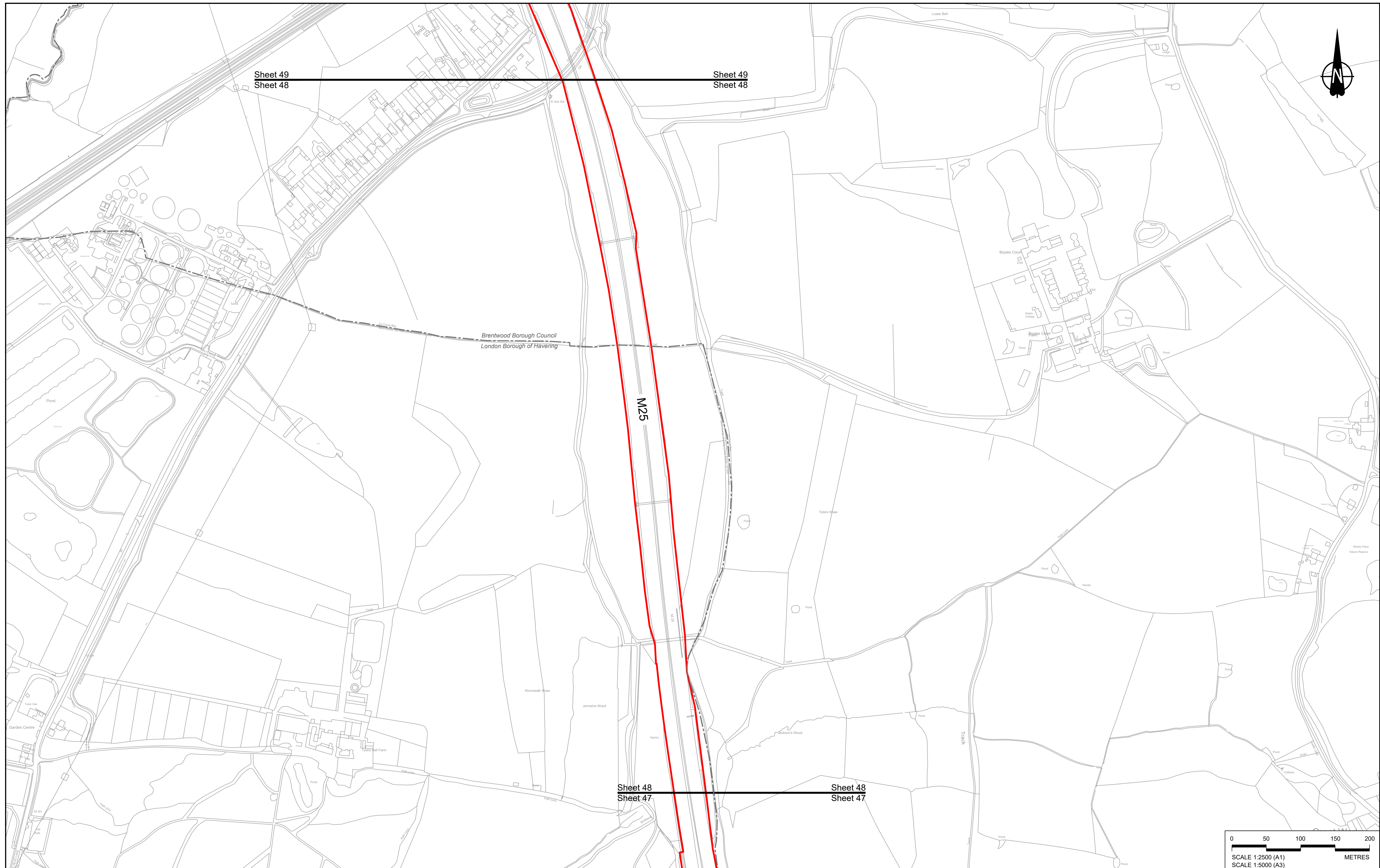
- Flood Compensation Area
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing



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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- 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
- Resigned or modified overhead electricity line
- Underground multitality 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

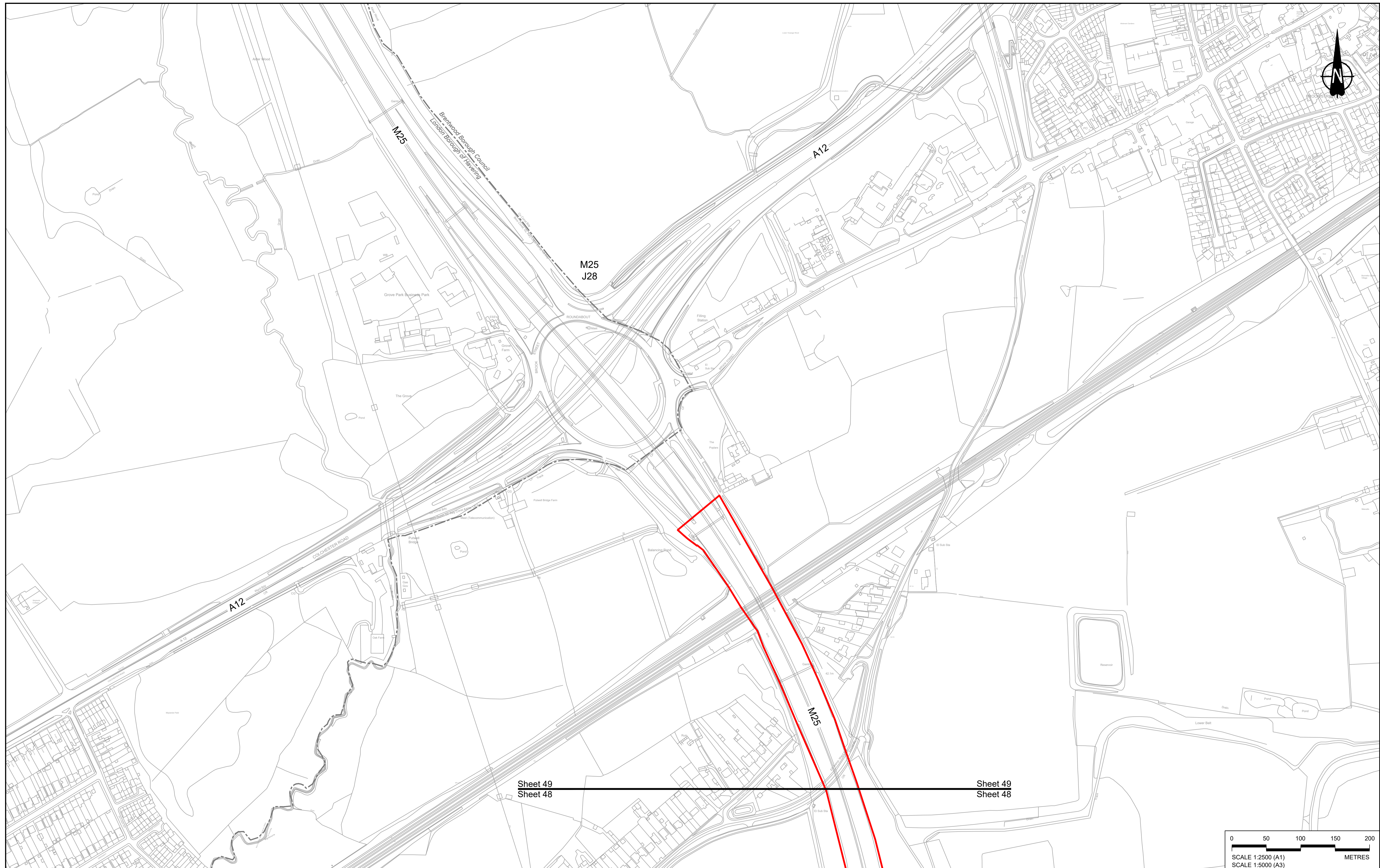
- Open space provision, replacement open space or replacement common land
- Hedgerow
- Watercourse diversion
- Ecological fencing (badger)
- Acoustic barrier
- Fencing

Client

Project

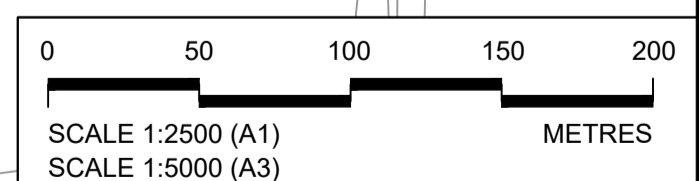
LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.5	A1	P01
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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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
Scale	1:2500		
Drawing title	GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 49		
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-10047		

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