

Lower Thames Crossing
Map book 1: General Arrangements

Lower Thames Crossing map books

The three map books for Supplementary Consultation contain plans of the proposed changes to the project under the following headings:

- Map book 1: General Arrangements (layout plans)
- Map book 2: land use plans
- Map book 3: engineering plans

These plans show the changes we have made since our statutory consultation in 2018 and are published for the purposes of the Supplementary Consultation on the project. The proposals are therefore subject to change due to consultation feedback and further design development.

The plans run from the A2 in the south to the M25 in the north. Identically numbered sheets in the different map books show the same area, for example sheet 3 shows the A2/LTC junction in map books 1 and 2.

Map book 1: General Arrangements

The General Arrangements show the proposed details of the project including:

- Permanent works and construction compounds
- Environment mitigation
- Utilities diversions
- Development boundary
- Open space and replacement land

Map book 2: land use plans

The land use plans show the areas we are seeking powers to compulsorily acquire land or permanent rights. They also show the land we require temporary rights to use in order to construct and operate the project.

Areas we may need to purchase include the land required for the permanent works, temporary works and compensation land.

Permanent works

Compulsory purchase of land or compulsory acquisition of permanent rights will be required along the route of the road, for re-connecting local roads and for associated structures like drainage ponds and tunnel control building. In some land parcels, only the acquisition of subsoil will be required.

Temporary works

Temporary use of land is needed for the project's construction works and to provide sufficient space to do so safely. The plans show land that may be required temporarily for the main construction compounds at the tunnel entrances north and south of the River Thames and at various locations along the route. We will also require permanent and temporary rights over land to divert utilities such as gas pipelines, electricity cables and water pipes. Any land that is only required temporarily will be returned to its previous use wherever possible once construction has been completed.

Compensation land

Compensation land may include environmental protection measures such as habitat creation and for flood compensation. This land may also need to be compulsorily acquired permanently or be subject to permanent rights.

Replacement land

Land is also included in respect of the replacement of special category land such as open space, or common land which is being compulsorily acquired or in which permanent rights are sought. This replacement land may also need to be compulsorily acquired permanently or be subject to permanent rights.

Map book 3: engineering plans

This book contains engineering drawings in the following order:

- The plan and profile drawings which detail the vertical and horizontal road alignment
- The junction arrangements showing the proposed layout
- The cross sections throughout the route showing the lanes and earthworks

The plan and profile drawings show the highway details of the route in plan and profile (level above or below existing ground). The drawings are split into two views with the plan on the top and profile underneath.

The profile gives the road level in relation to existing ground at a given chainage*. An exaggerated scale is used in the profile to help show the differences in levels and gradients of the design. The profile also shows where existing roads and public rights of way cross over or under the route.

All levels are given in relation to the ordnance datum level** the profile reference level might be different on each drawing.

* Chainage measures the distance along the route in metres

** Above Ordnance Datum level (AOD) is a measurement above mean sea level taken from a reference point at Newlyn in Cornwall.

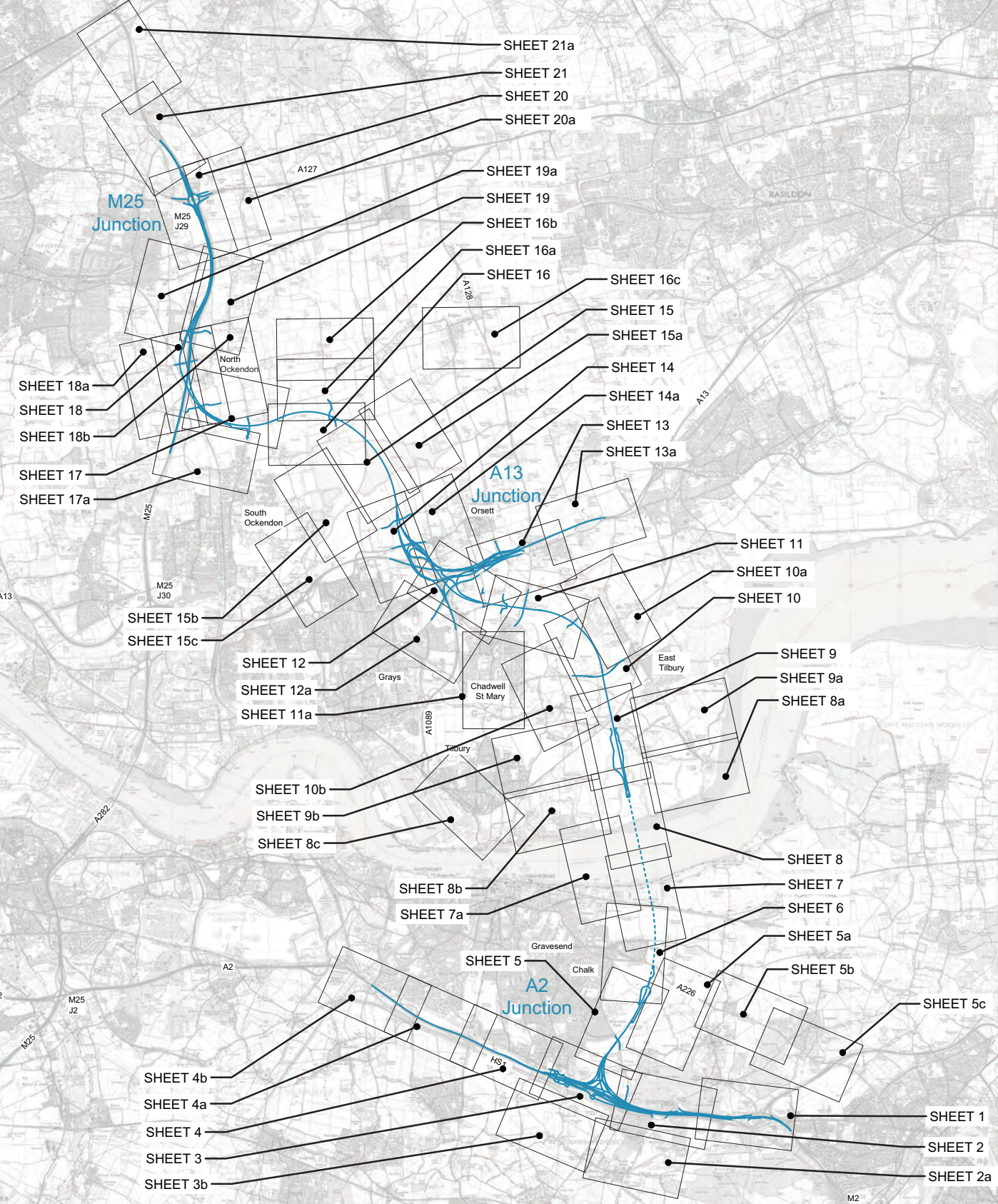
Large maps

Large maps that cover a greater area have also been produced which detail the same information.

These are:

- Environmental constraints – 1 sheet
- Land use – 1 sheet
- Project profile – 1 sheet
- General Arrangements – 6 sheets (larger coverage)

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ENGINEERING AND CONSTRUCTION

- New Carriageway
- Railway line
- Overbridge
- Underpass
- Traffic sign
- Gantry
- Lighting
- Pond
- Flood Compensation Area
- Public Right of Way (PRoW) Diversion
- Tunnel
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - Flood protection bund/false cutting
- Verge
- Retaining wall
- Realigned Gas
- Realigned Overhead cable
- Diversion ties into existing
- Development boundary

ENVIRONMENT

- Grade I listed building
- Grade II listed building
- Grade II* listed building
- Area of Outstanding Natural Beauty (AONB)
- Site of Special Scientific Interest (SSSI)
- Ancient Woodland
- Conservation Area
- Potential relocated Travellers site
- Scheduled monument
- Potential replacement land for special category land (including open space)
- Proposed woodland planting
- Proposed grassland planting
- Proposed AONB mitigation
- Potential receptor site for ancient woodland compensation
- Potential receptor site for translocation of protected species
- Potential receptor site for excavated material/landscape enhancement
- Community Forest
- River Thames RMCZ (Recommended Marine Conservation Zone)
- Watercourse
- Watercourse diversion

UTILITIES

- Realigned Gas
- Realigned Overhead cable
- Diversion ties into existing

BOUNDARIES

- Development boundary

LEGEND:

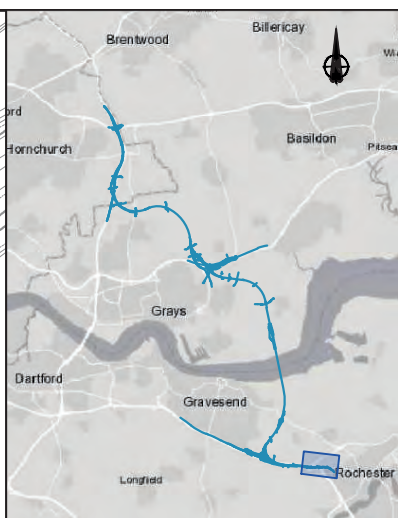
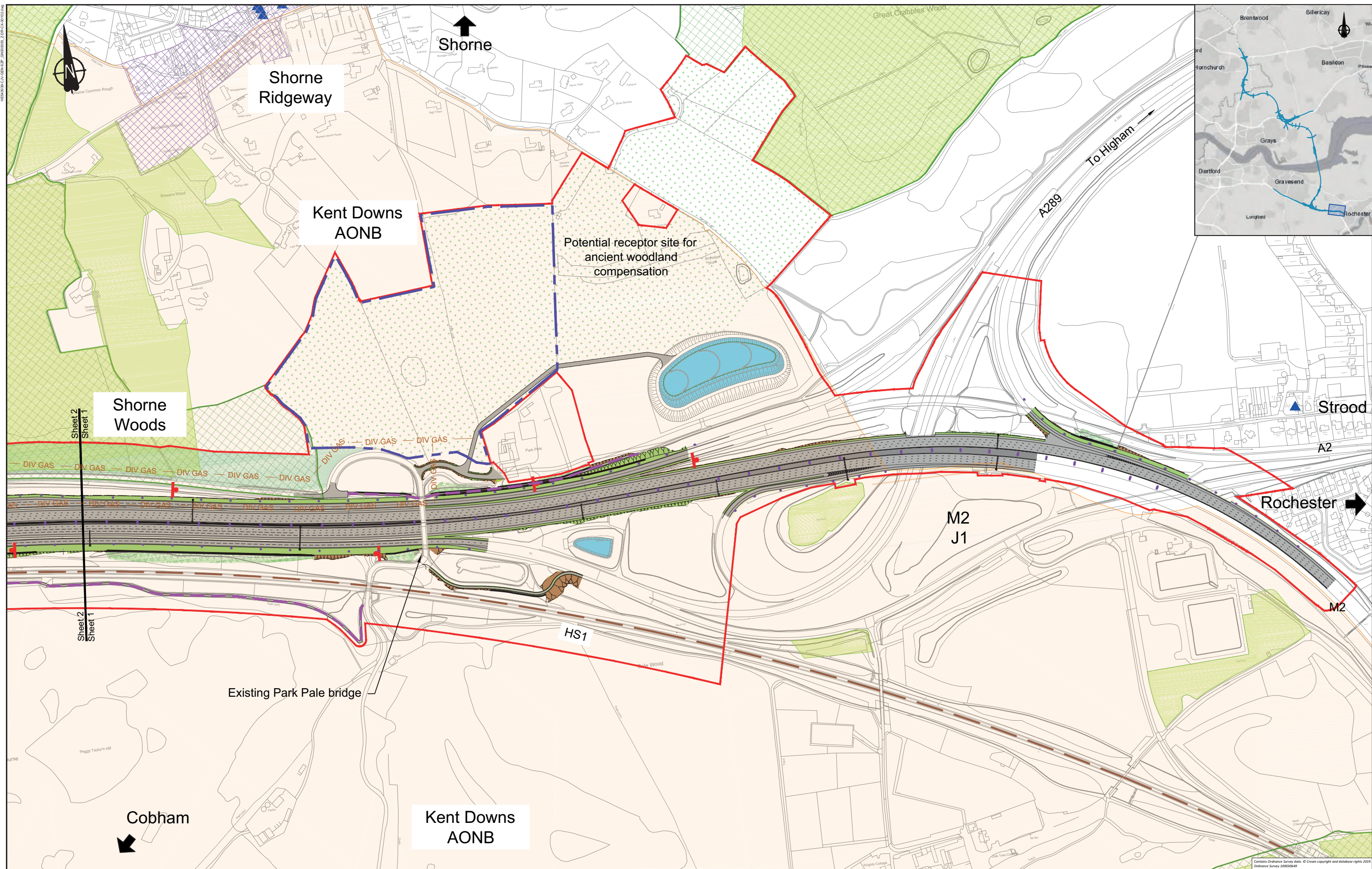
- LTC route above ground
- LTC route in tunnel

Client

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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT KEY PLAN AND LEGEND



Sheet 2
Sheet 1

Shorne Woods

Shorne Ridgeway

Kent Downs AONB

Potential receptor site for ancient woodland compensation

M2 J1

HS1

Existing Park Pale bridge

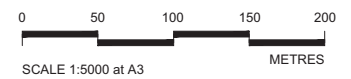
Cobham

Kent Downs AONB

Rochester

Strood

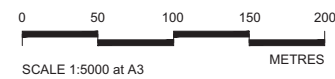
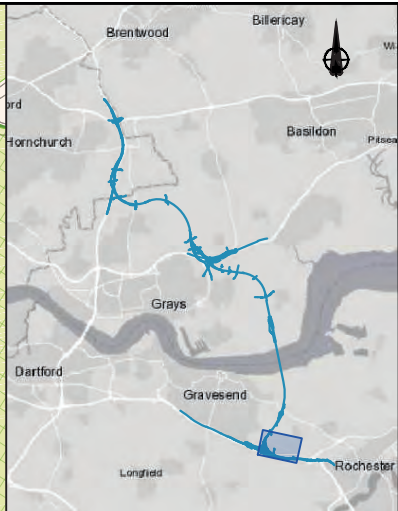
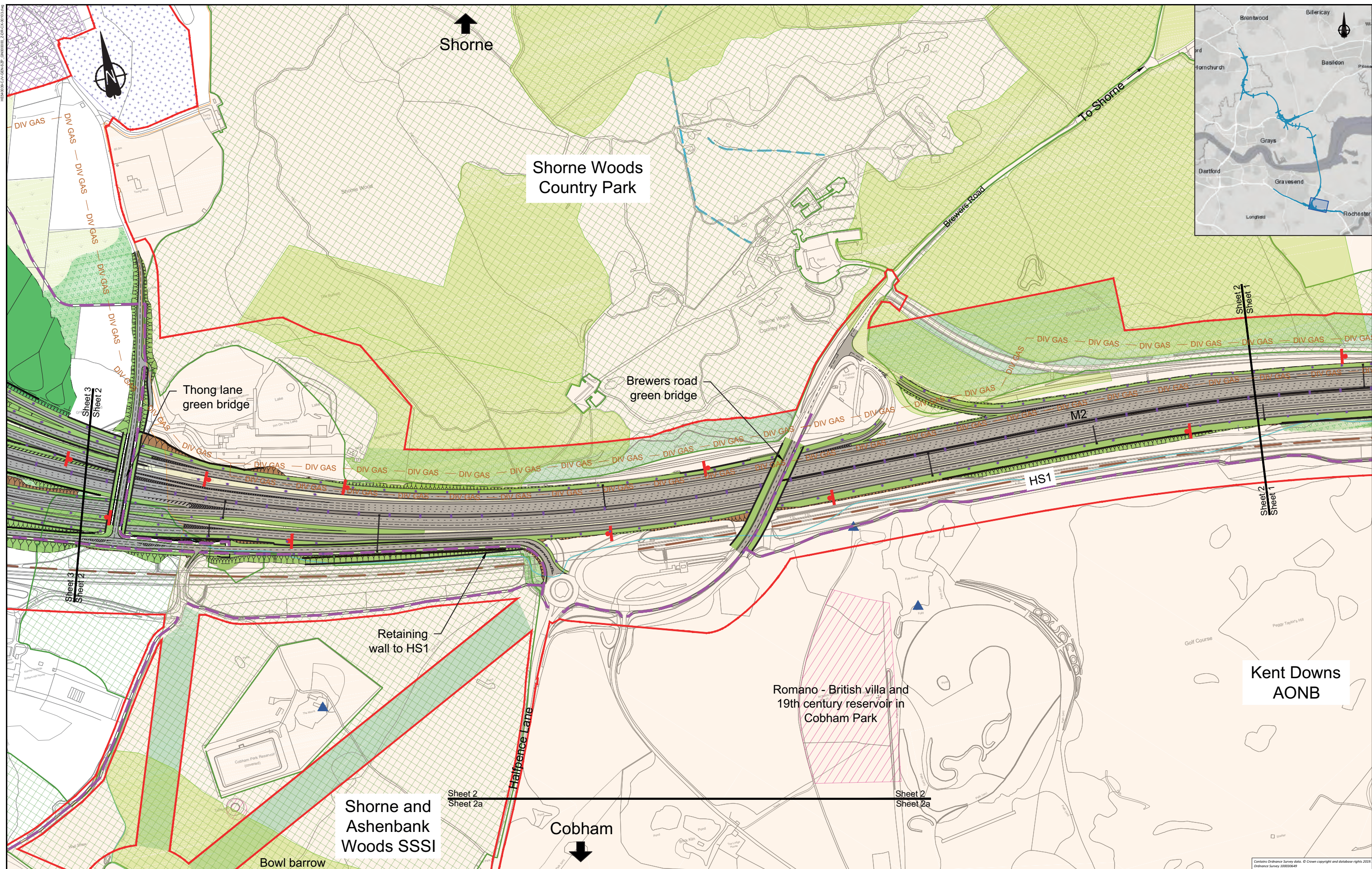
Shorne



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	Drawing title GENERAL ARRANGEMENT PLAN SHEET 1

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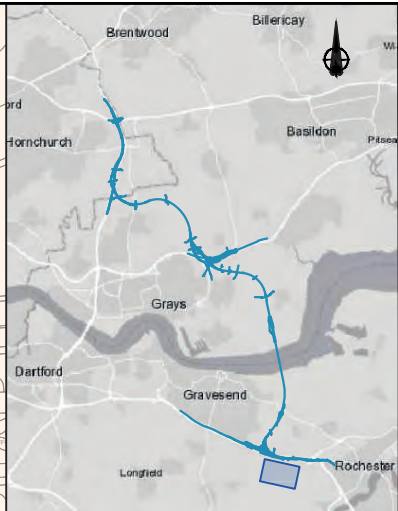
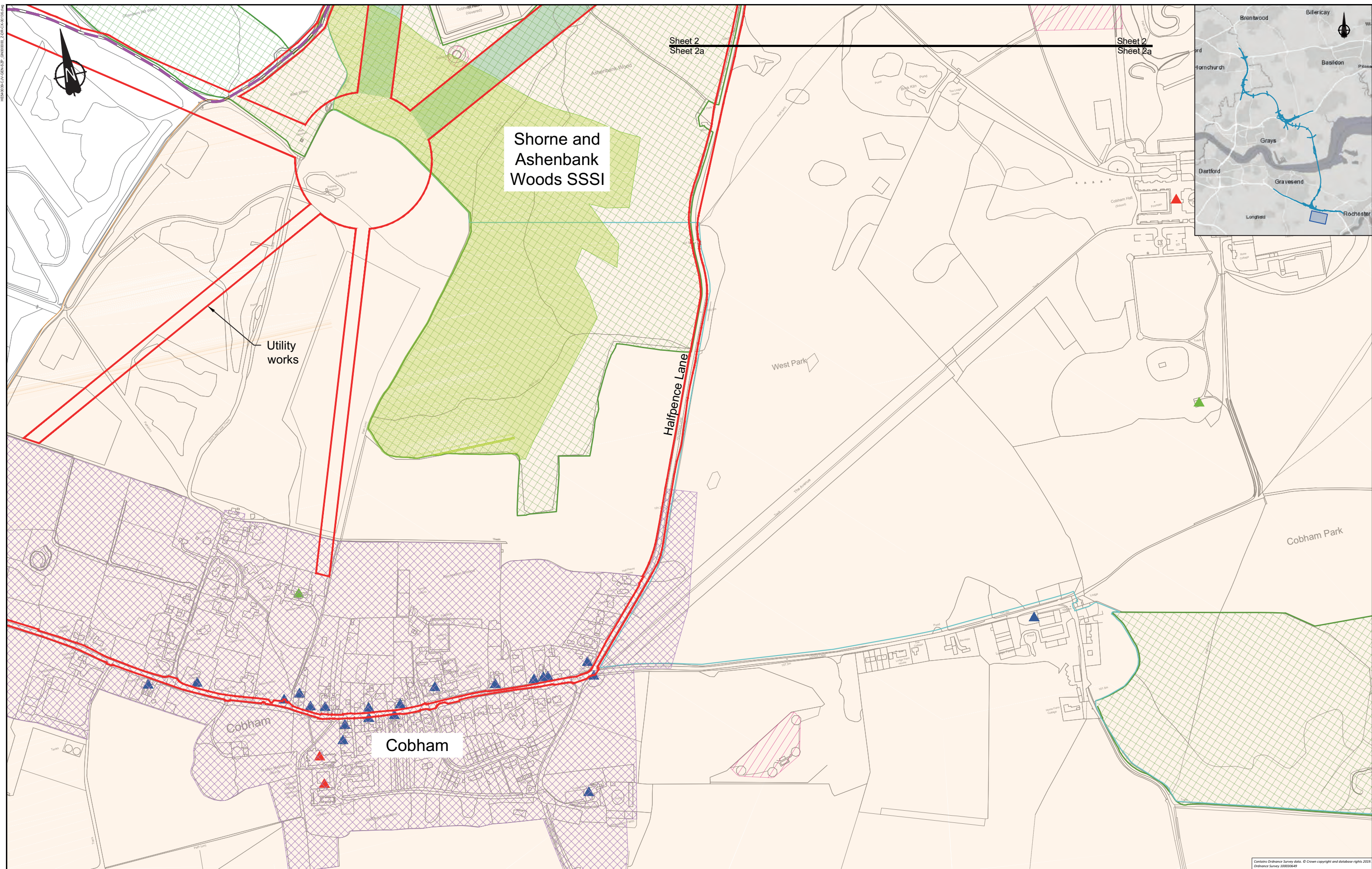
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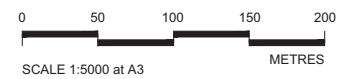


Shorne and
Ashenbank
Woods SSSI

Utility
works

Halfpence Lane

Cobham



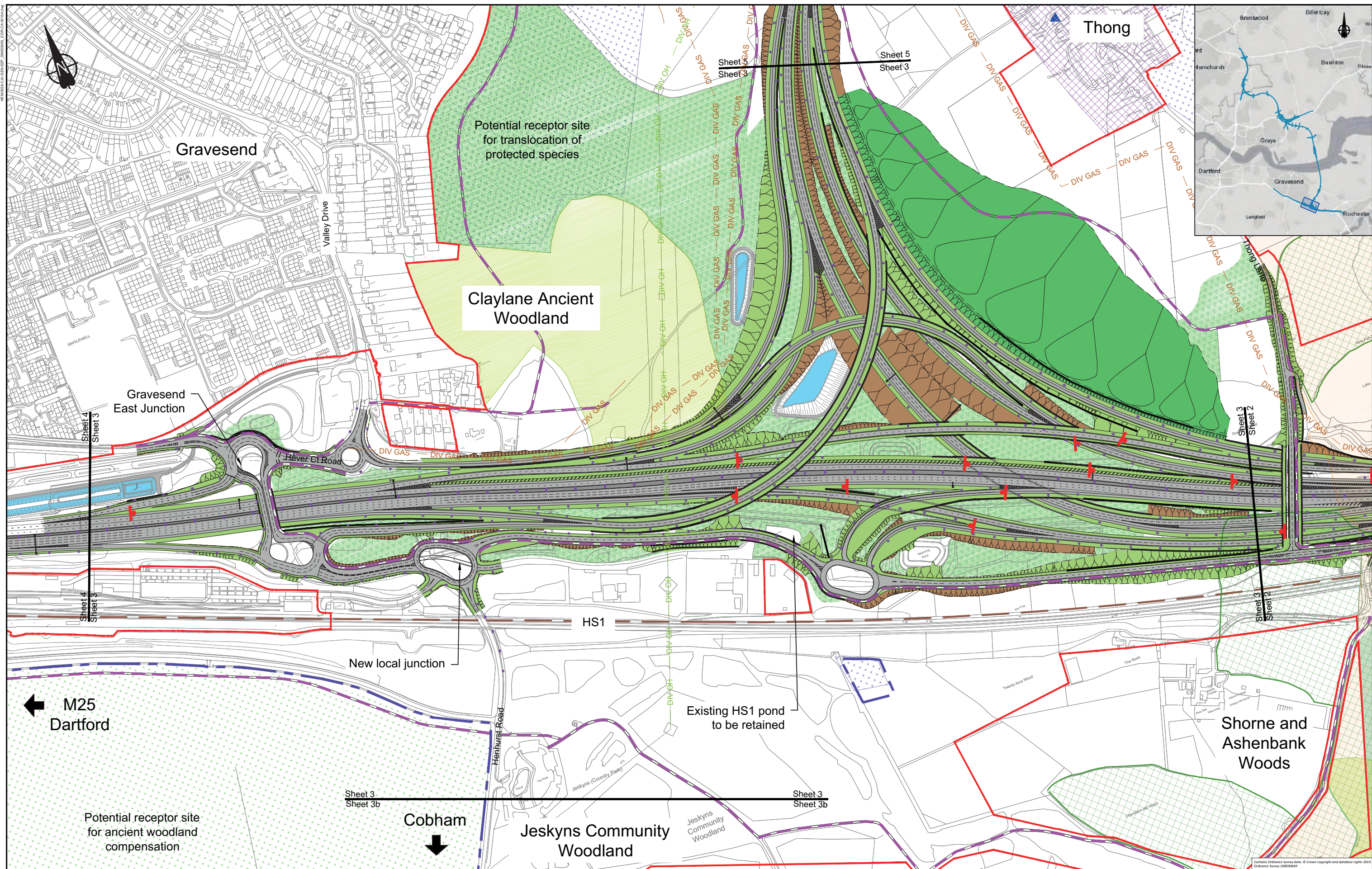
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Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 2a**

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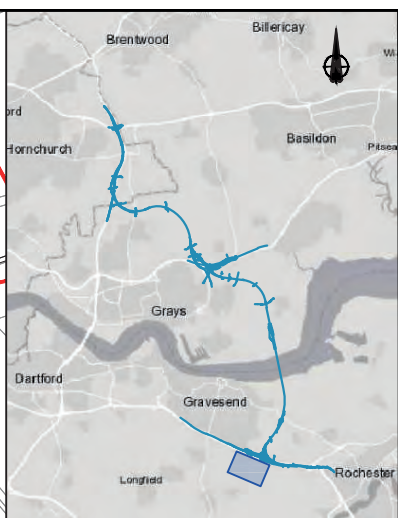
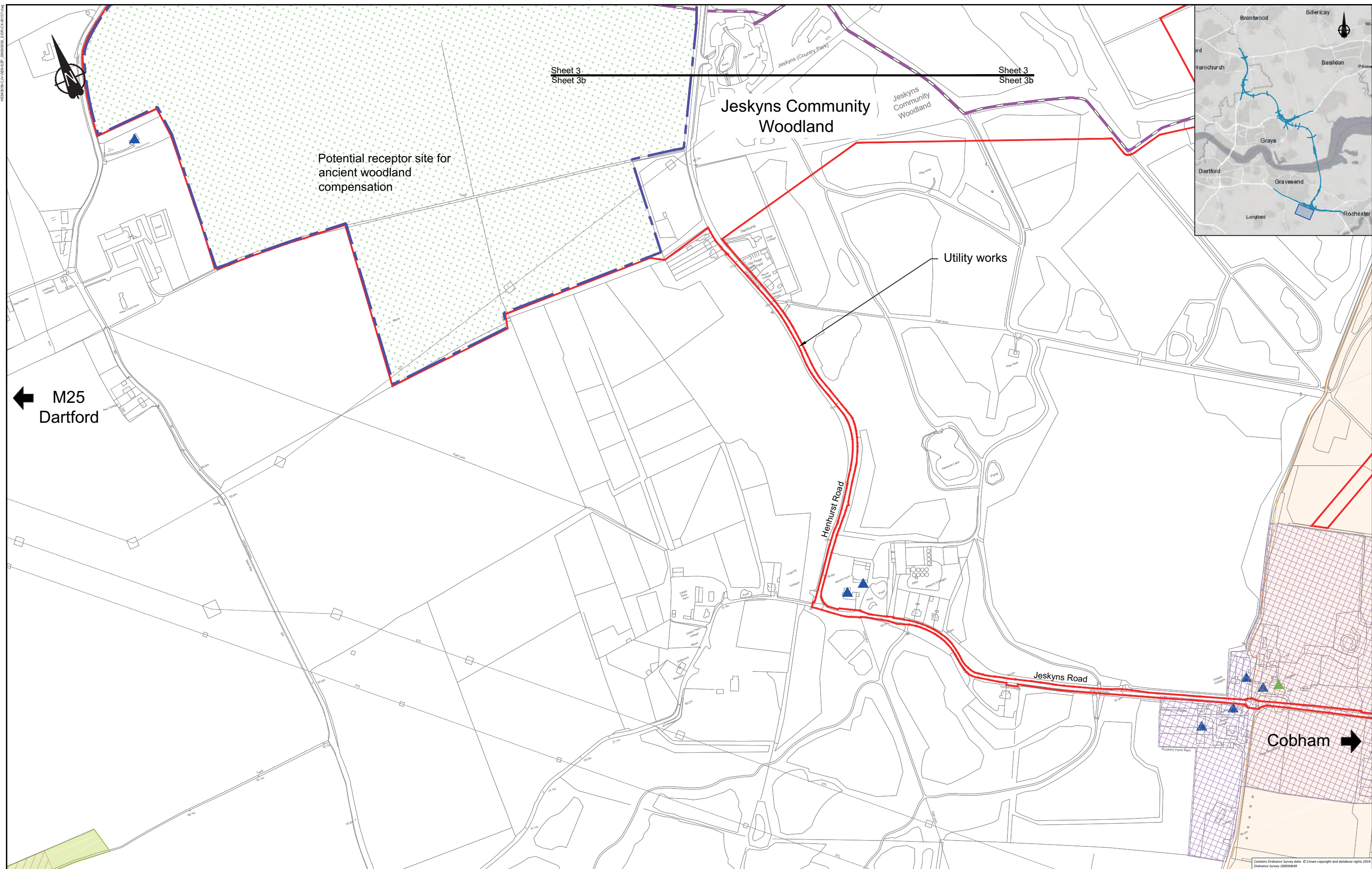
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Drawing title GENERAL ARRANGEMENT PLAN SHEET 3

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Sheet 3
Sheet 3b

Sheet 3
Sheet 3b

Potential receptor site for ancient woodland compensation

Jeskyns Community Woodland

Jeskyns Community Woodland

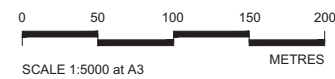
Utility works

Henhurst Road

Jeskyns Road

M25
Dartford

Cobham



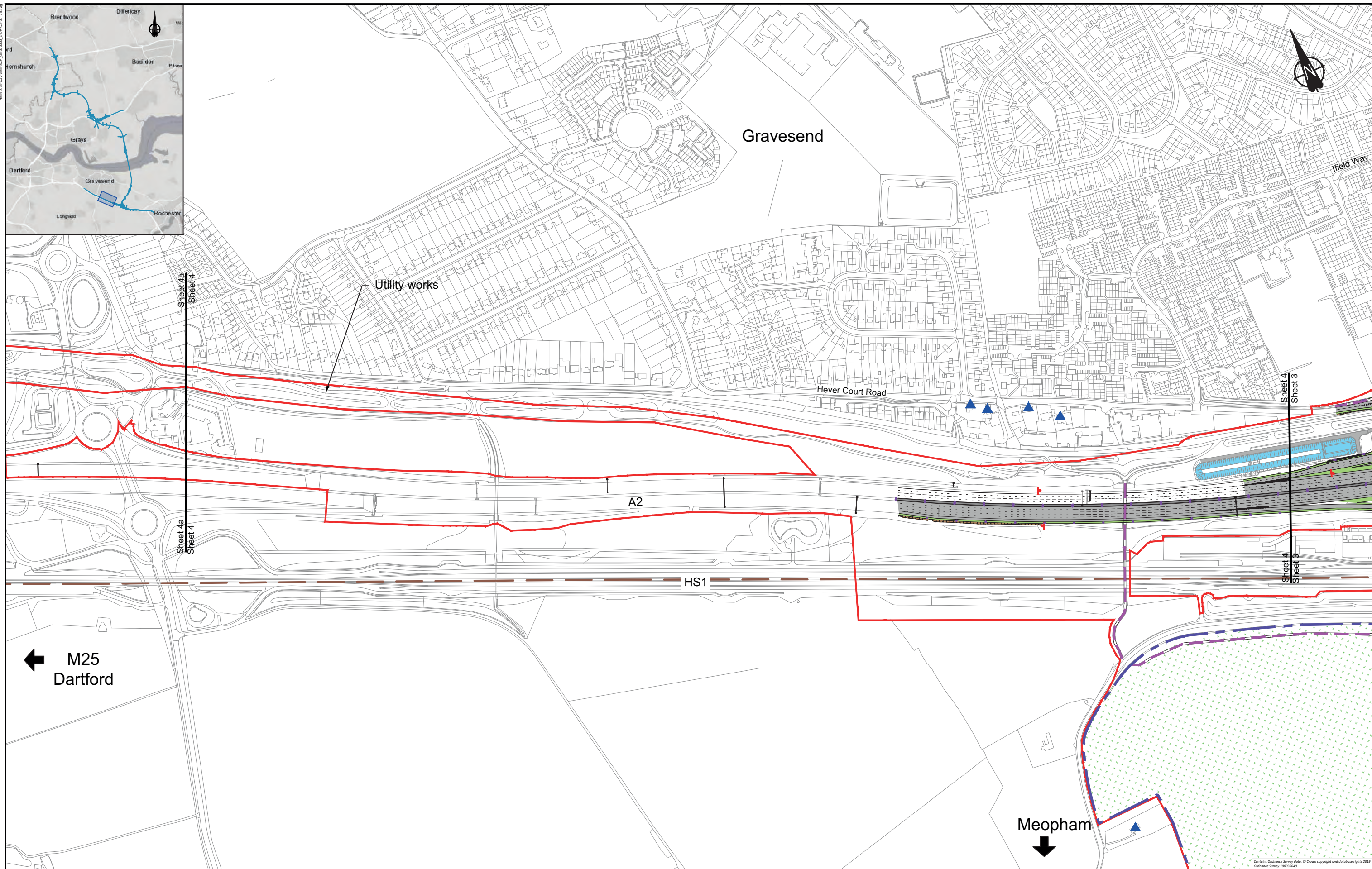
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← M25
Dartford

Utility works

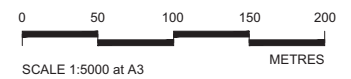
Gravesend

Hever Court Road

A2

HS1

Meopham



Client

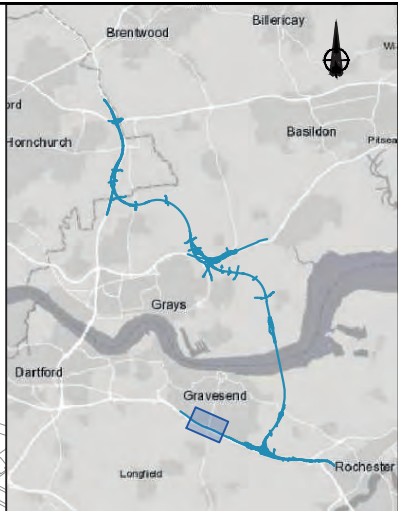
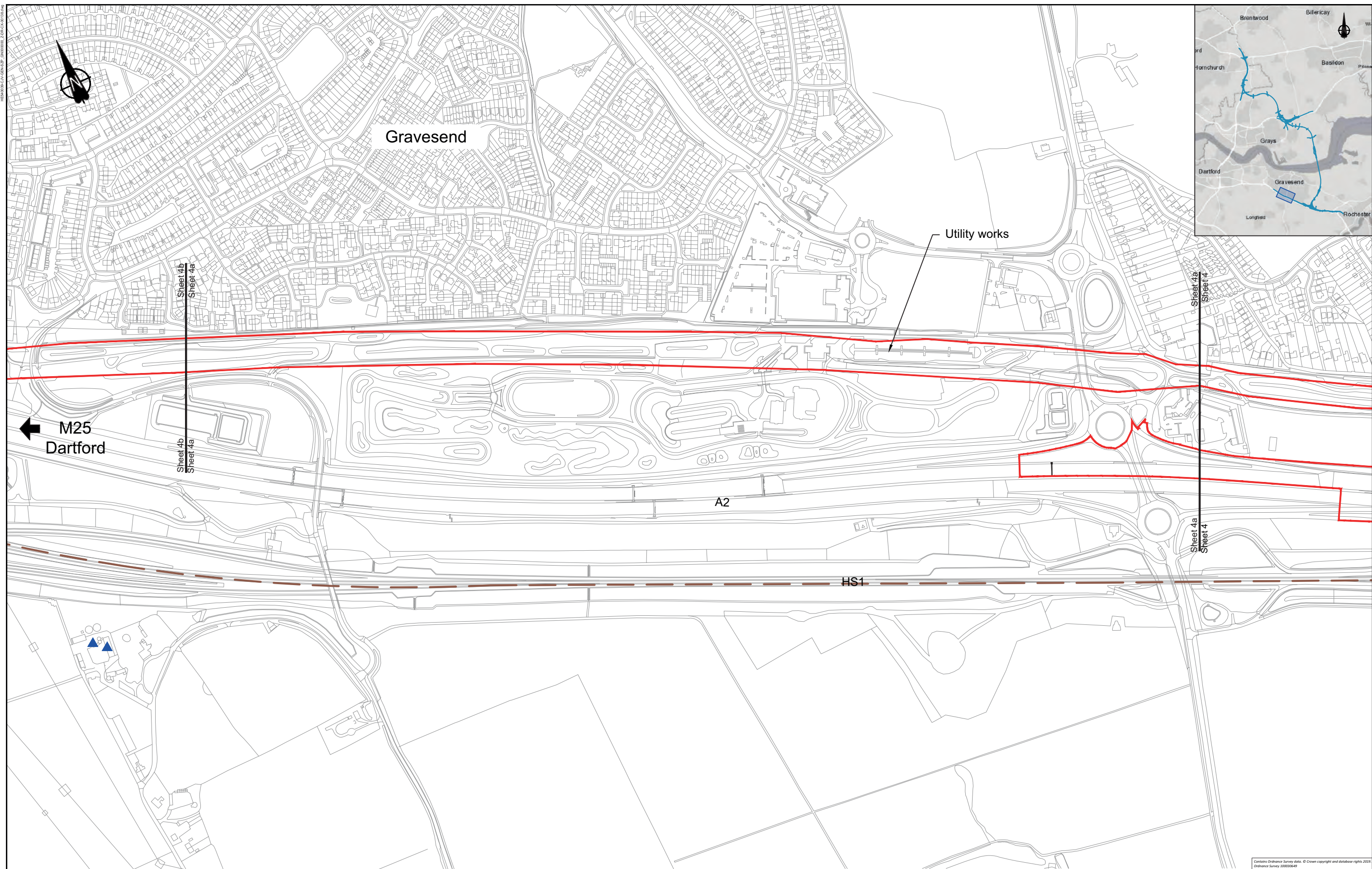


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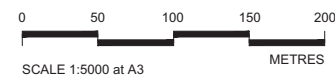
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GENERAL ARRANGEMENT PLAN
SHEET 4

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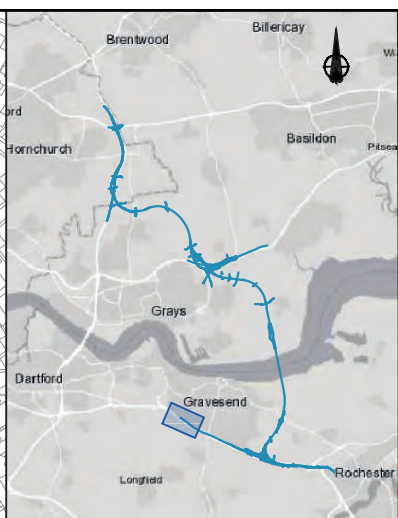
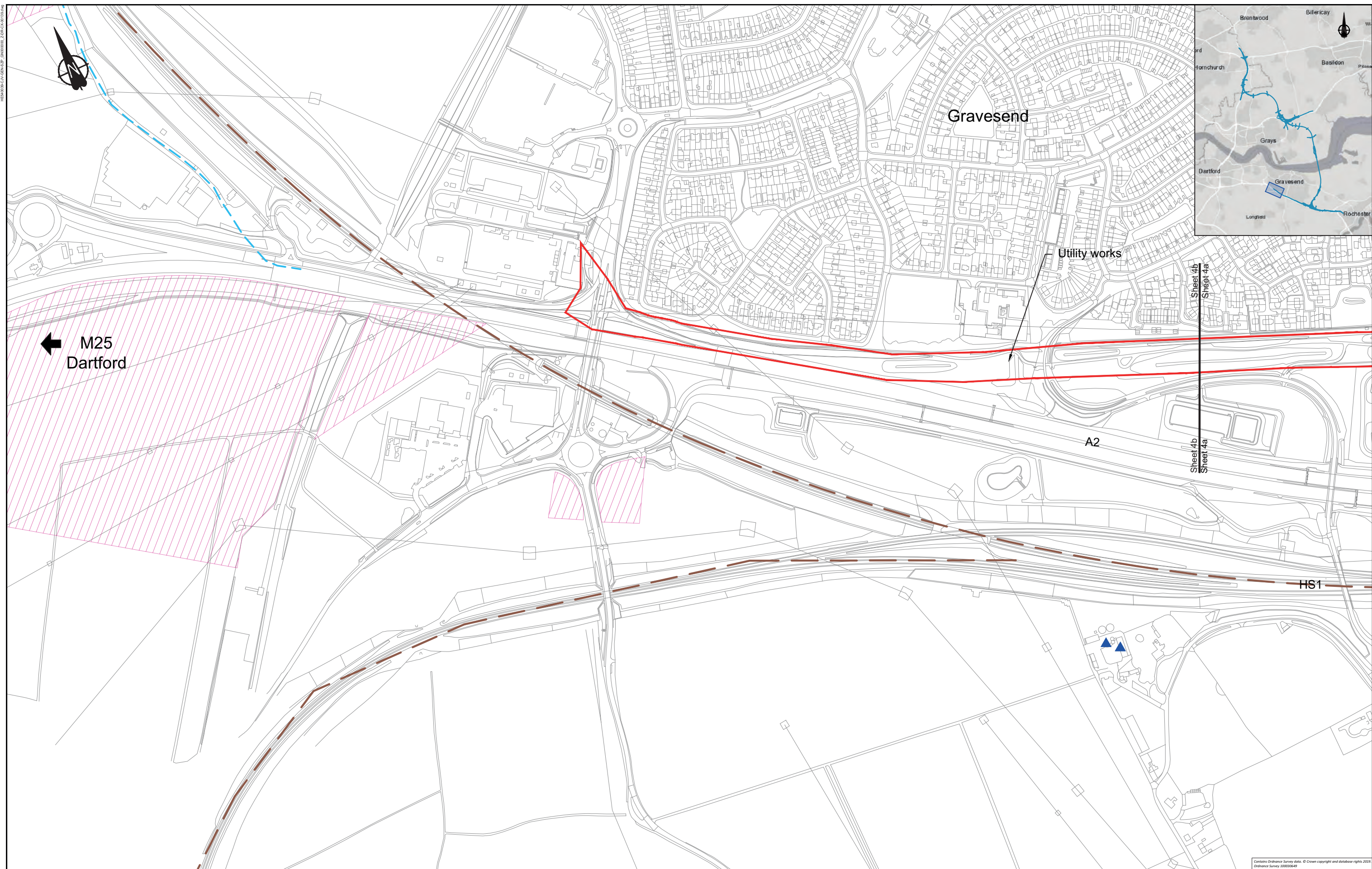


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Drawing title GENERAL ARRANGEMENT PLAN SHEET 4a



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← M25
Dartford

Gravesend

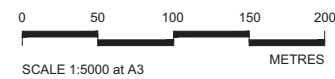
Utility works

A2

HS1

Sheet 4b
Sheet 4a
Sheet 4b
Sheet 4a

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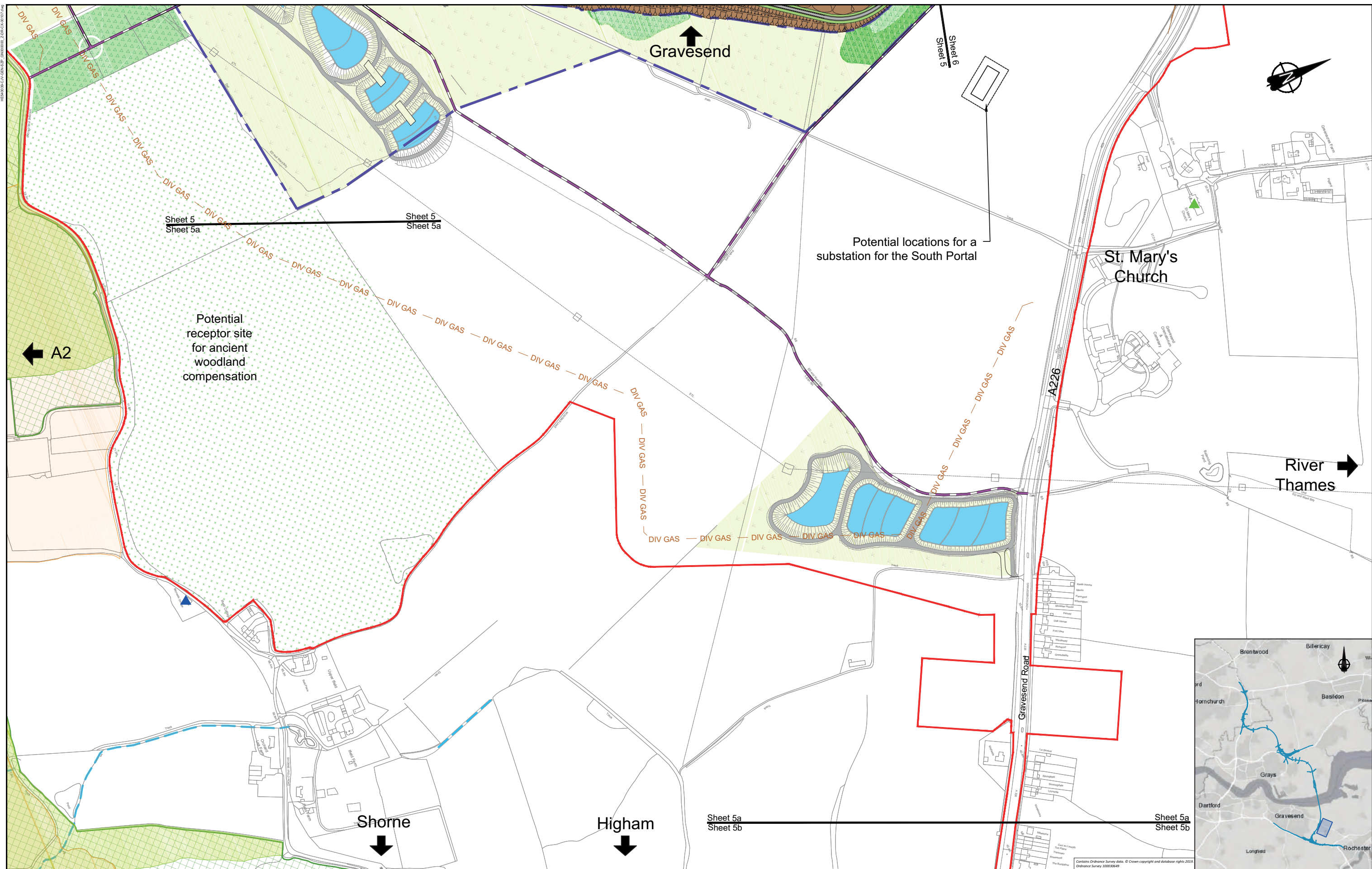
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Project

LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN SHEET 4b



Gravesend

Sheet 5
Sheet 5a

Sheet 5
Sheet 5a

Sheet 5
Sheet 5

Potential locations for a substation for the South Portal

St. Mary's Church

Potential receptor site for ancient woodland compensation

A2

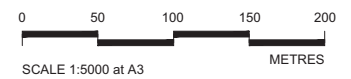
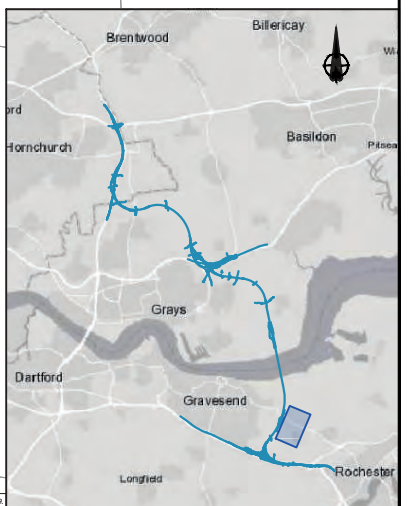
River Thames

Shorne

Higham

Sheet 5a
Sheet 5b

Sheet 5a
Sheet 5b

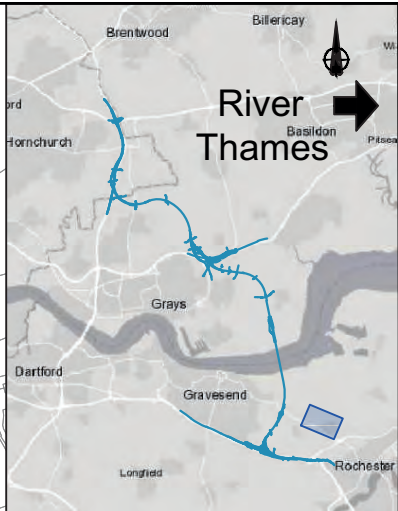
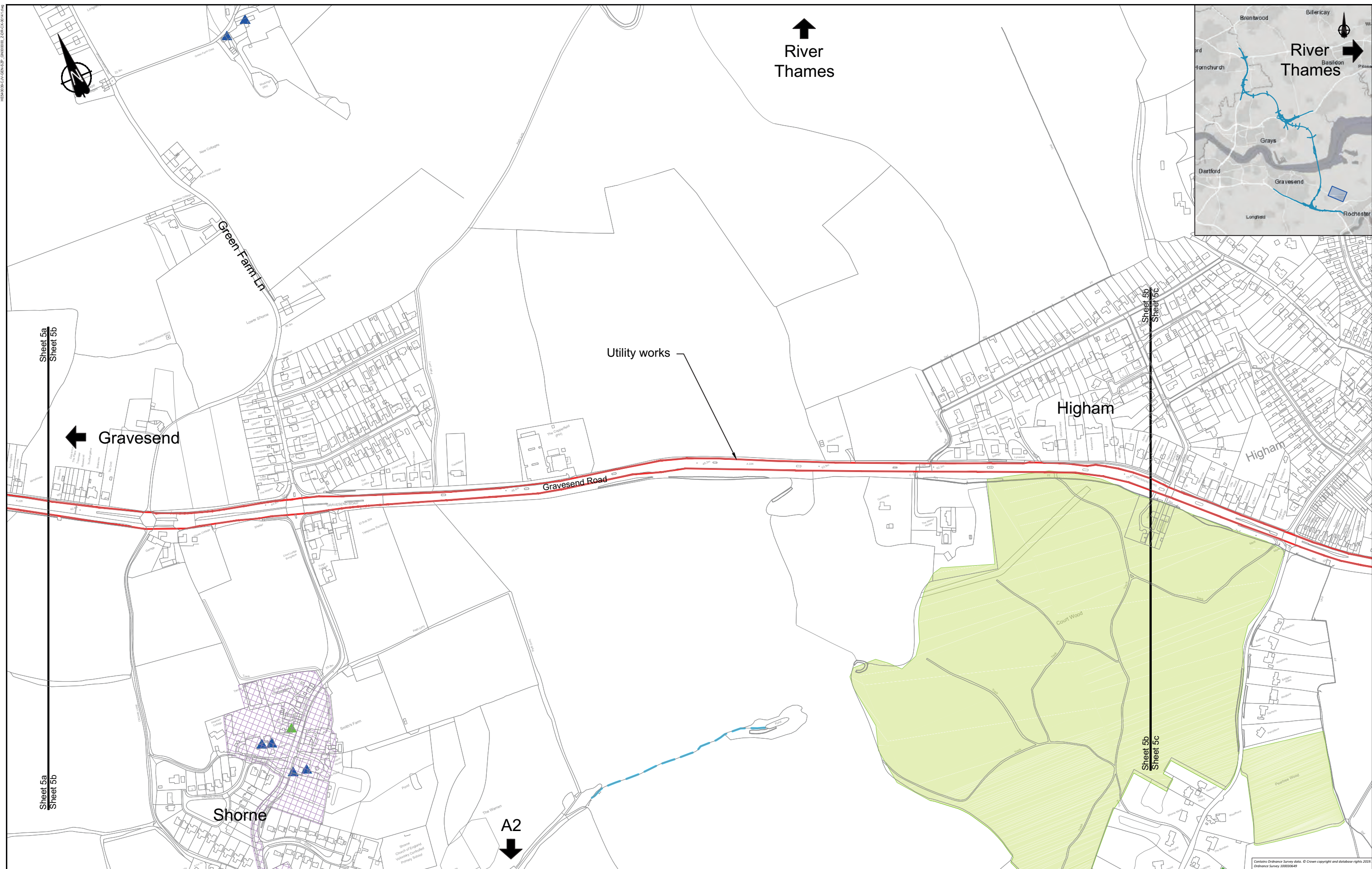


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Drawing title **GENERAL ARRANGEMENT PLAN SHEET 5a**



↑
River
Thames

← Gravesend

Higham

Shorne

Utility works

A2
↓

Green Farm Ln

Court Wood

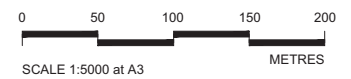
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Sheet 5a
Sheet 5b

Sheet 5a
Sheet 5b

Sheet 5a
Sheet 5c

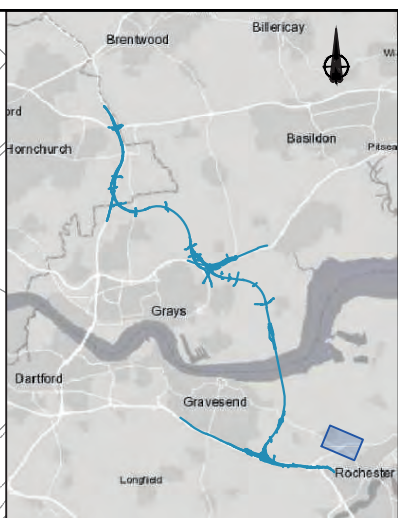
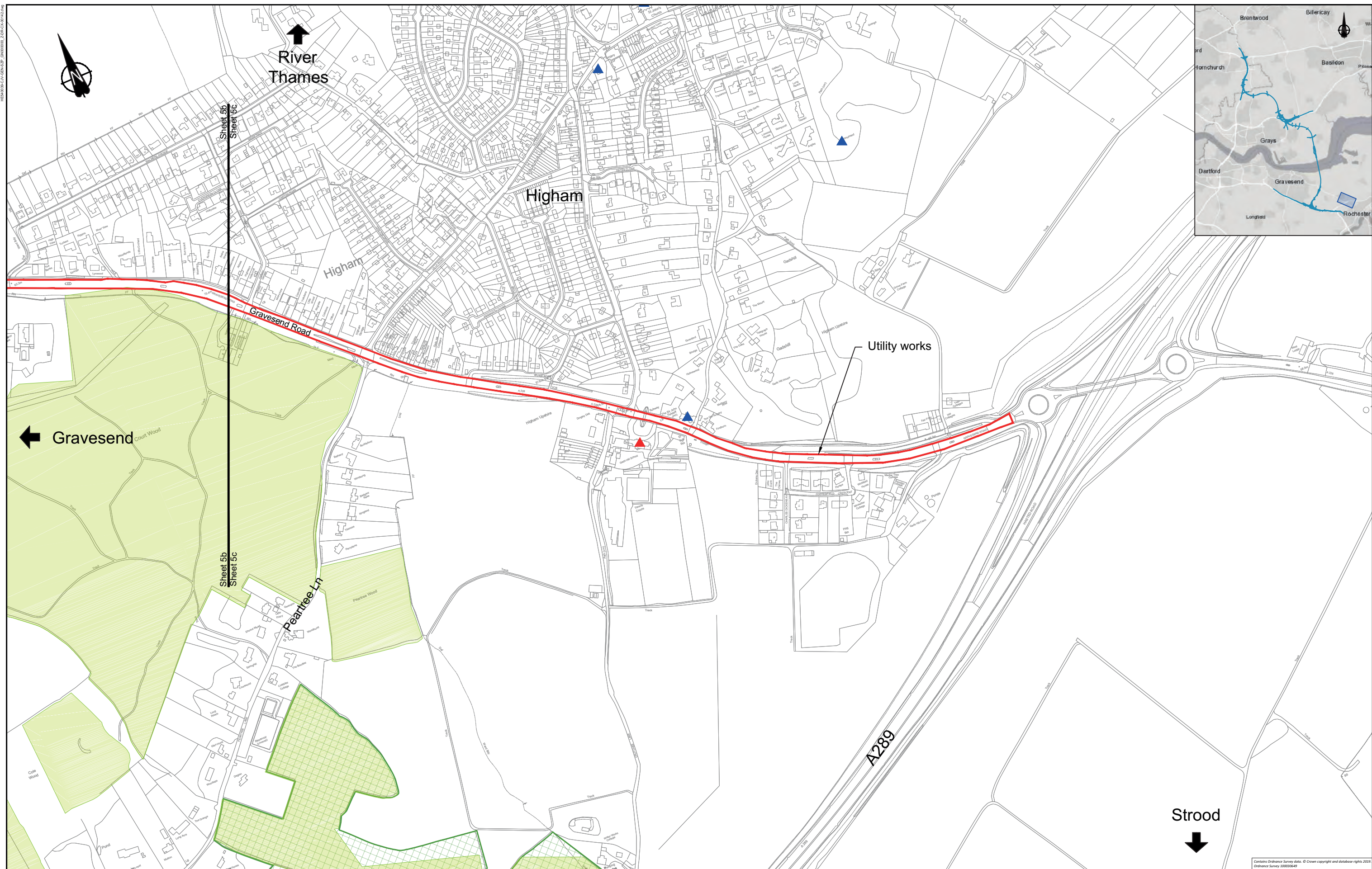
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Sheet 5c



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	Drawing title GENERAL ARRANGEMENT PLAN SHEET 5b

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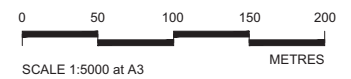
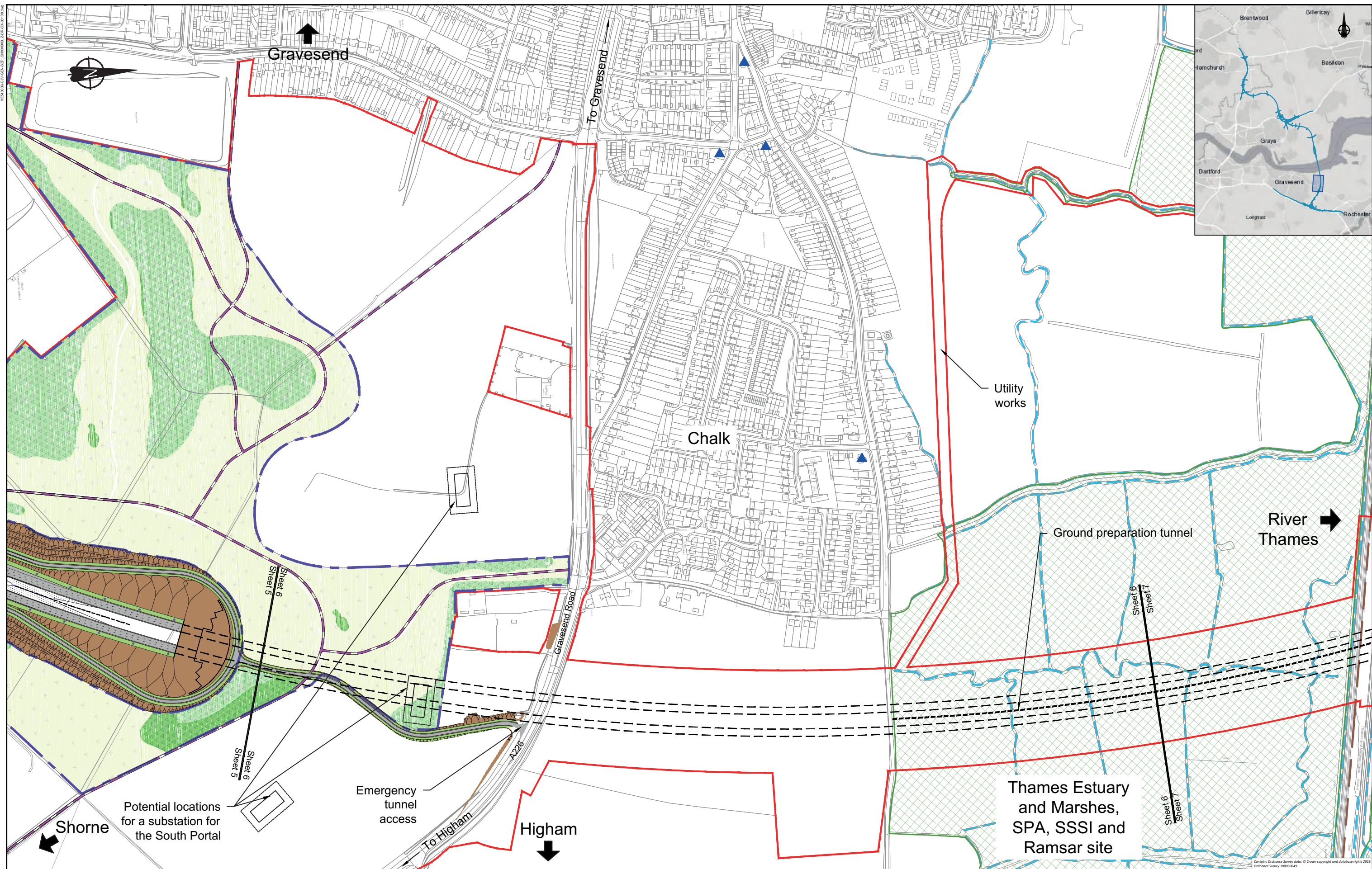
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Client
**highways
england**
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GENERAL ARRANGEMENT PLAN
SHEET 5c

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Project

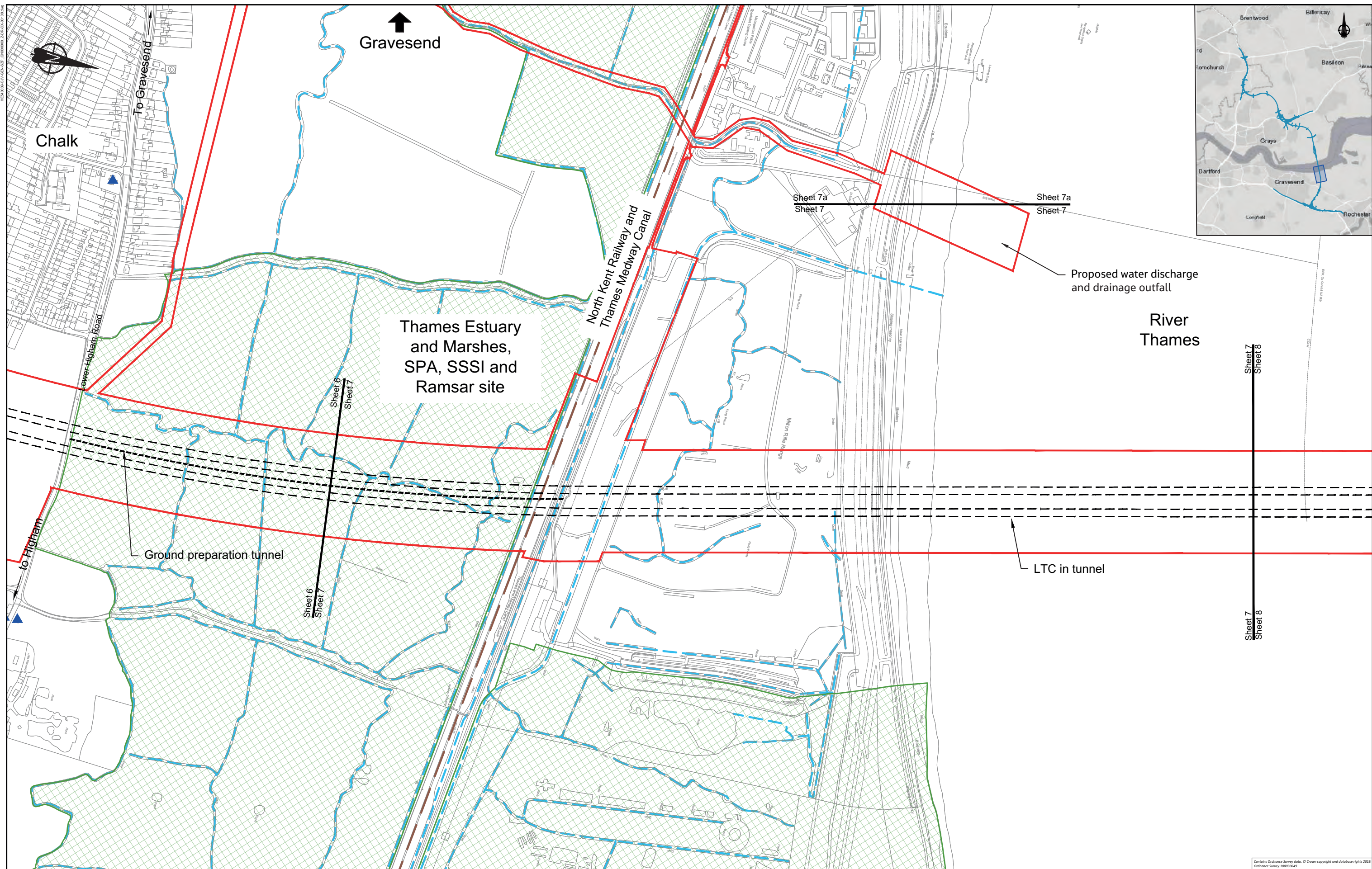
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Drawing title

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Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 6**



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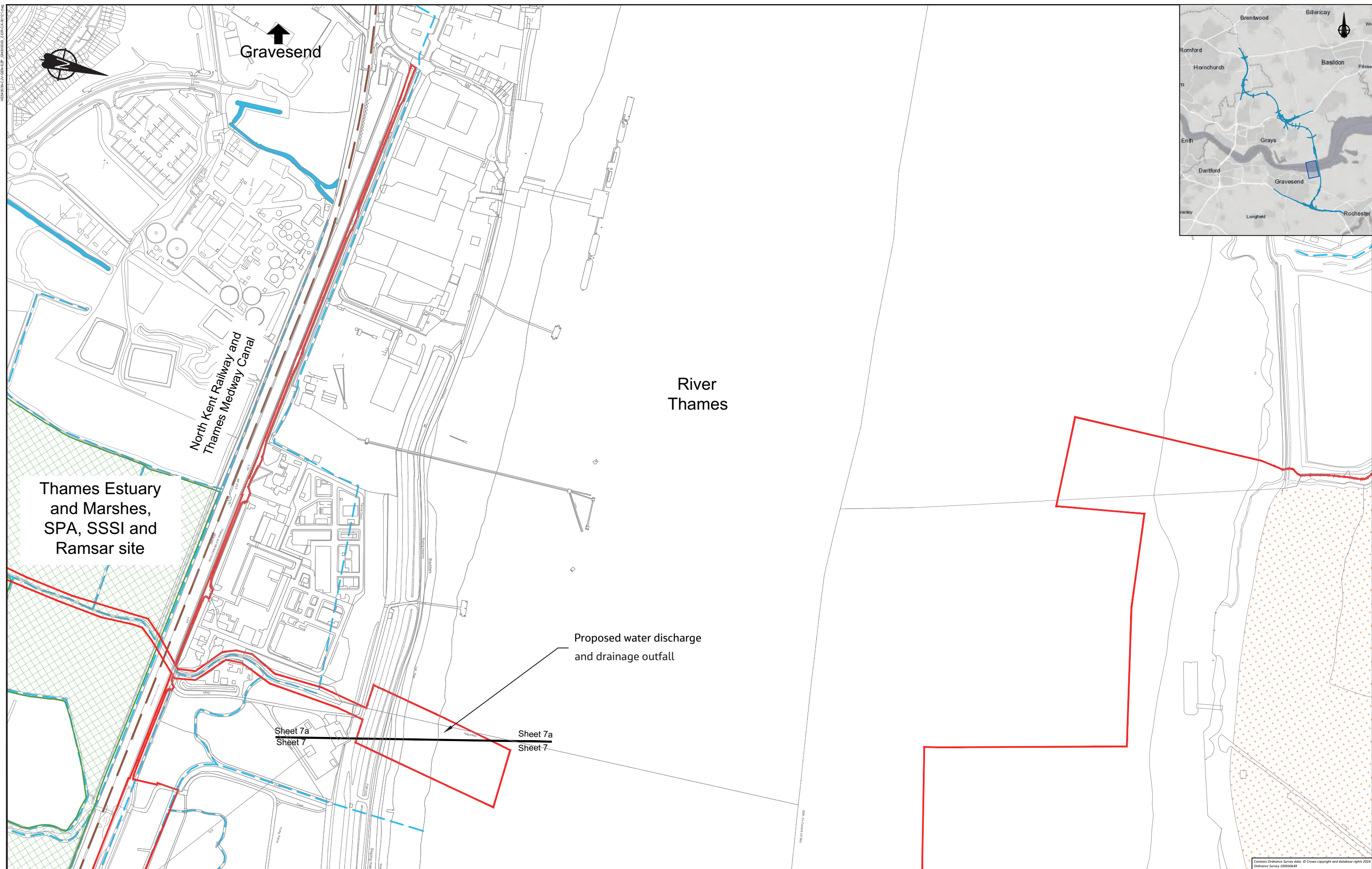
Client **highways england**

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Drawing title GENERAL ARRANGEMENT PLAN
SHEET 7

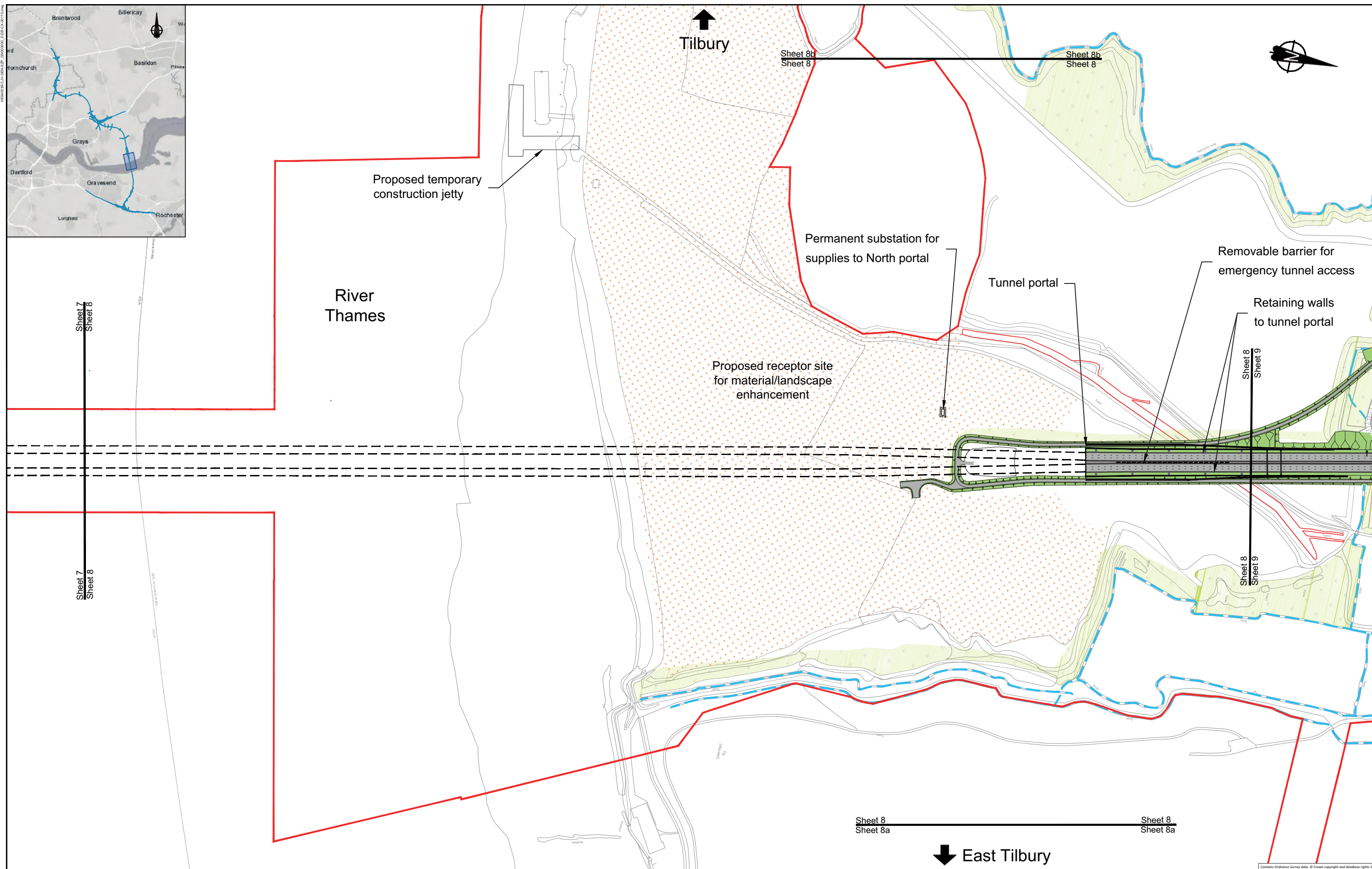
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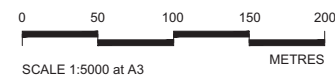
 PROPOSALS FOR CONSULTATION	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title GENERAL ARRANGEMENT PLAN SHEET 7a



Tilbury ↑

↓ East Tilbury

Sheet 8 Sheet 8a Sheet 8 Sheet 8a



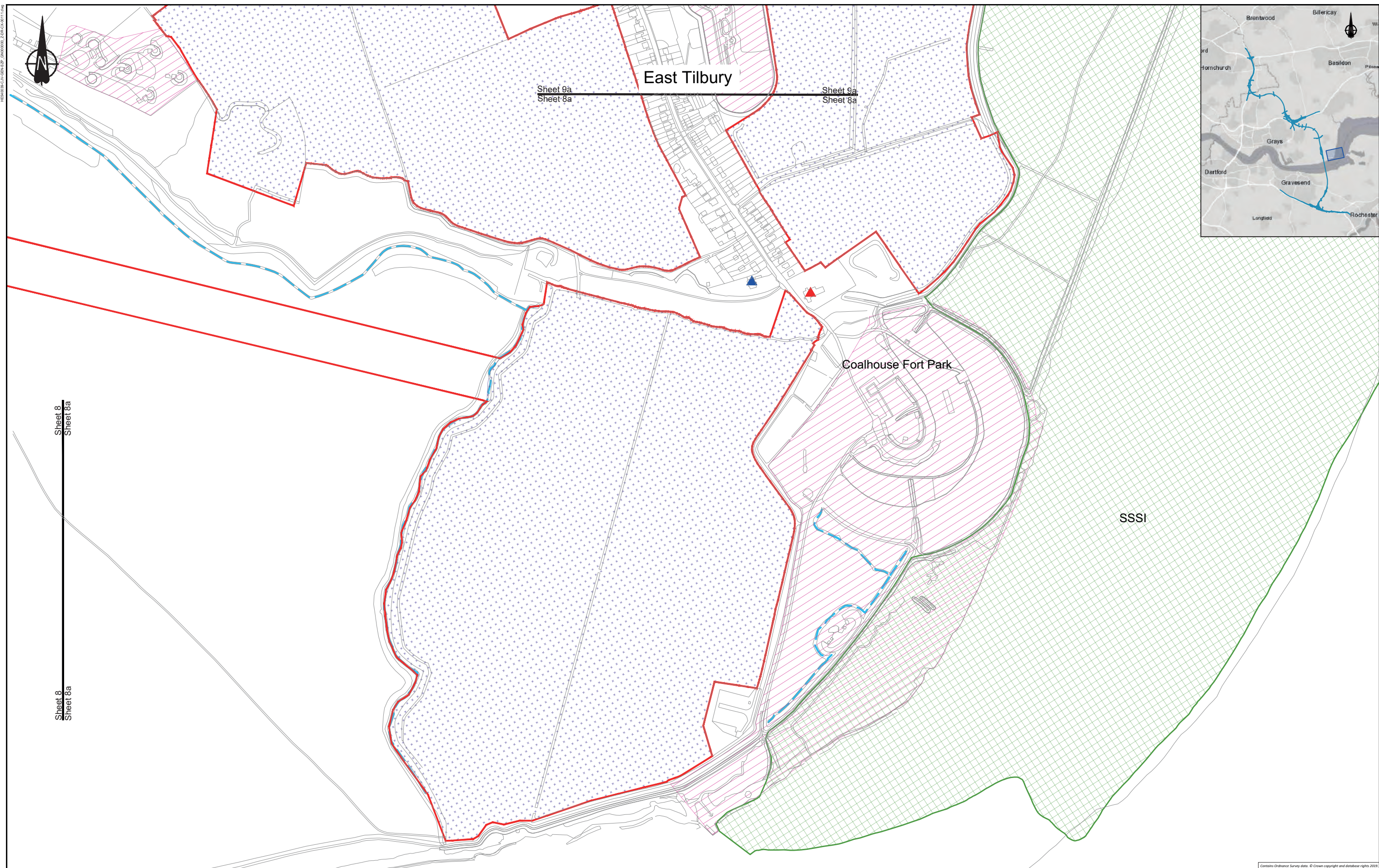
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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION


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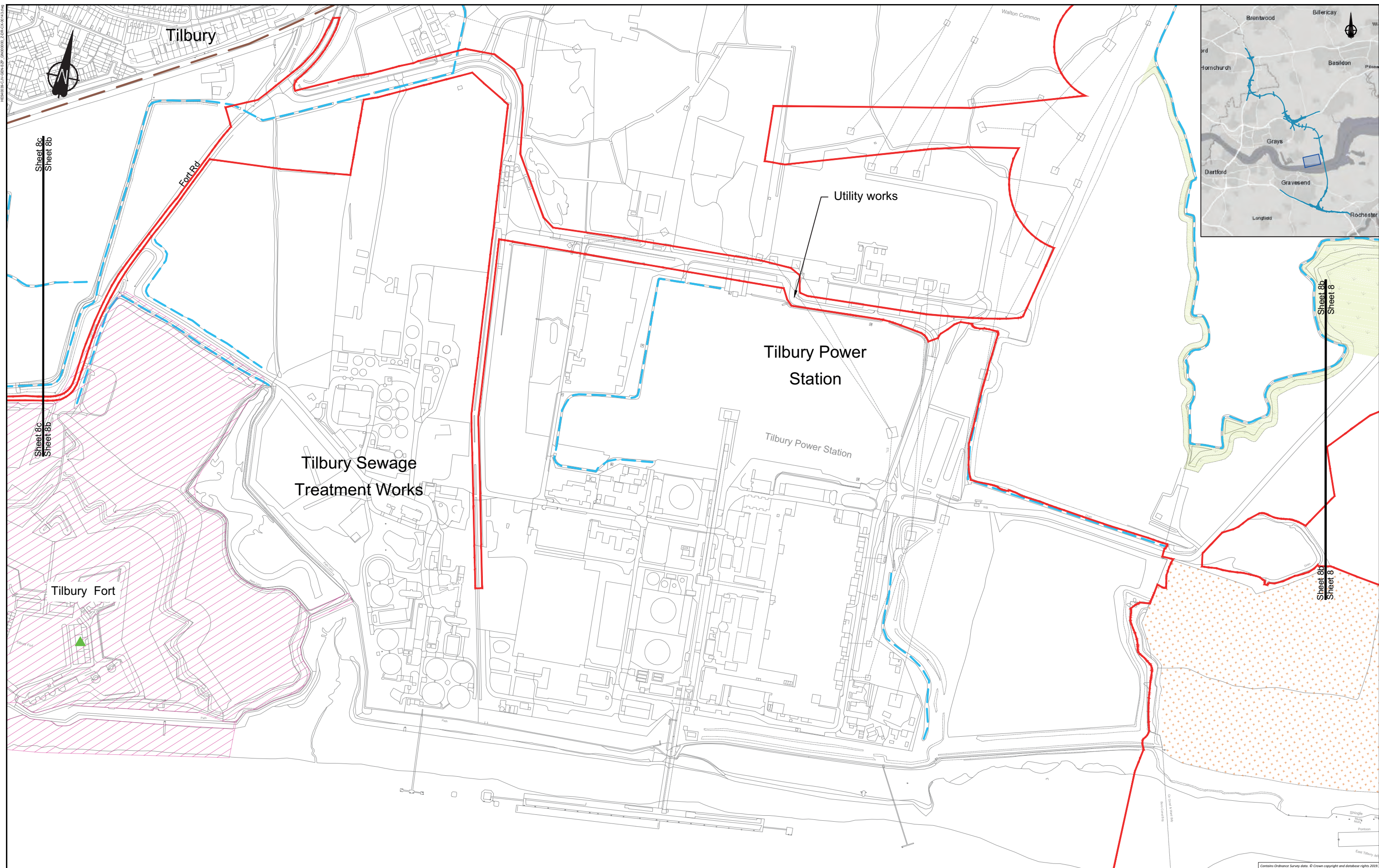
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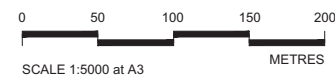
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Sheet 8c
Sheet 8b

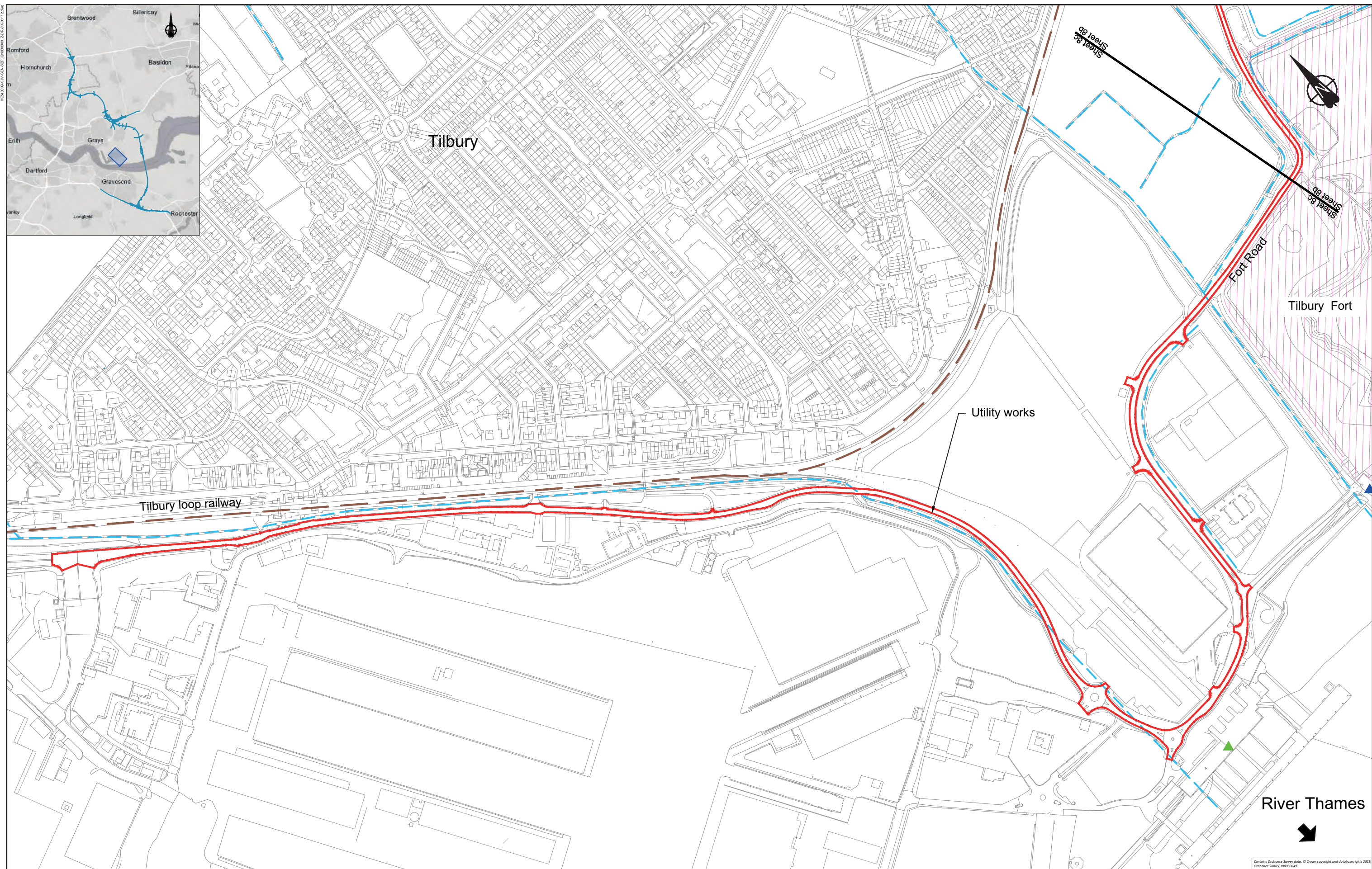
Sheet 8b
Sheet 8



Client
**highways
england**
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SHEET 8b**

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Sheet 8b
Sheet 8c
Sheet 8d

Tilbury loop railway

Utility works

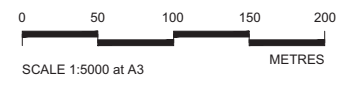
Fort Road

Tilbury Fort

River Thames

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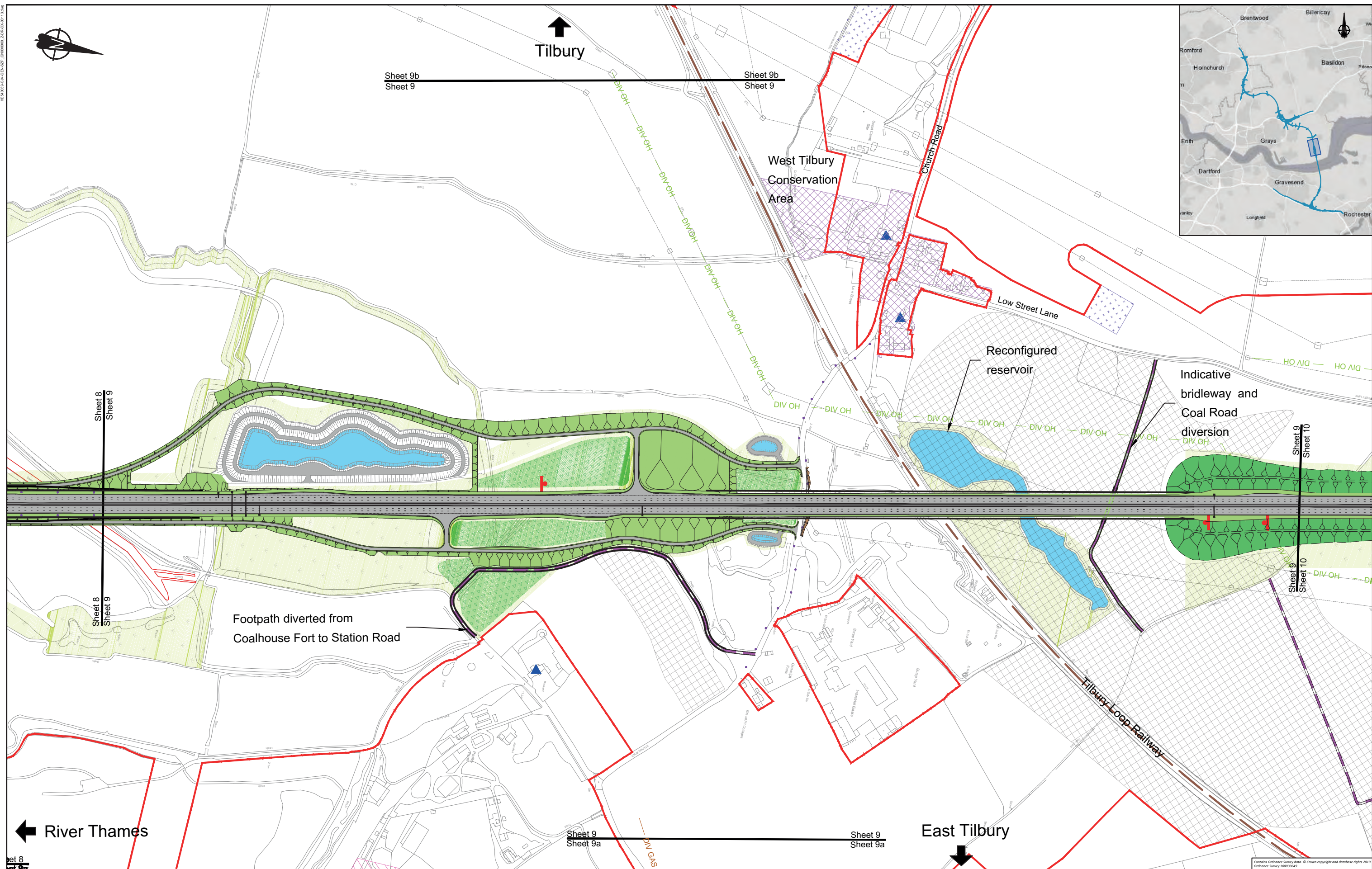


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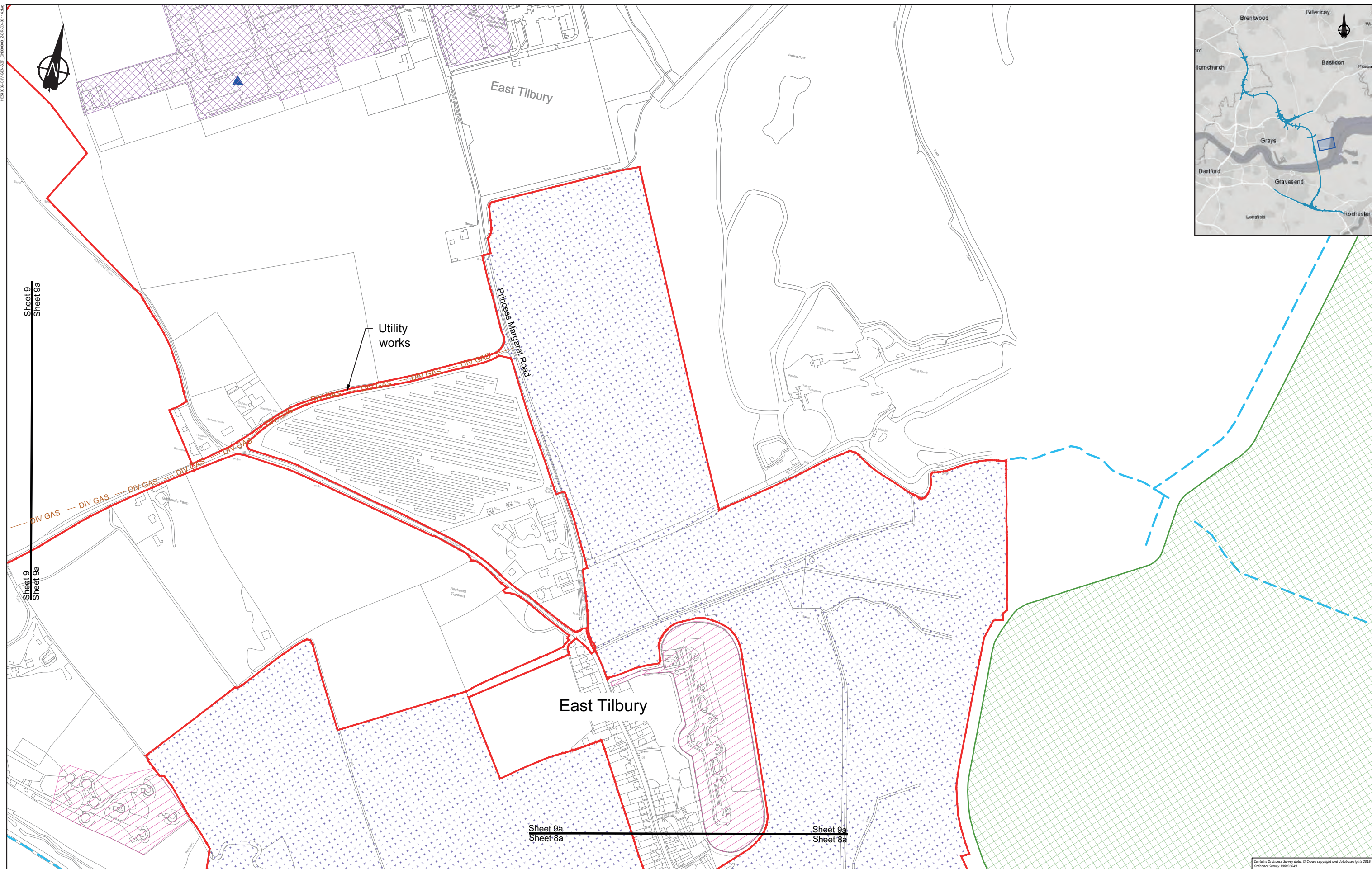
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GENERAL ARRANGEMENT PLAN
SHEET 8c



<p>Sheet 8 Sheet 9</p> <p>Sheet 9 Sheet 9a</p> <p>Sheet 9b Sheet 9</p> <p>Sheet 9 Sheet 9a</p> <p>Sheet 9 Sheet 9a</p> <p>Sheet 9 Sheet 9a</p>	<p>Client</p>  <p>PROPOSALS FOR CONSULTATION</p>	<p>Project</p> <p>LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION</p> <p>Drawing title</p> <p>GENERAL ARRANGEMENT PLAN SHEET 9</p>
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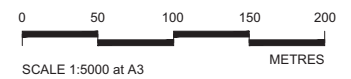
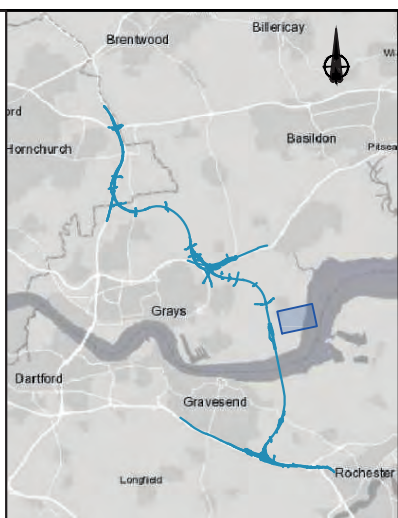
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Sheet 9
Sheet 9a

Sheet 9
Sheet 9a

Sheet 9a
Sheet 8a

Sheet 9a
Sheet 8a



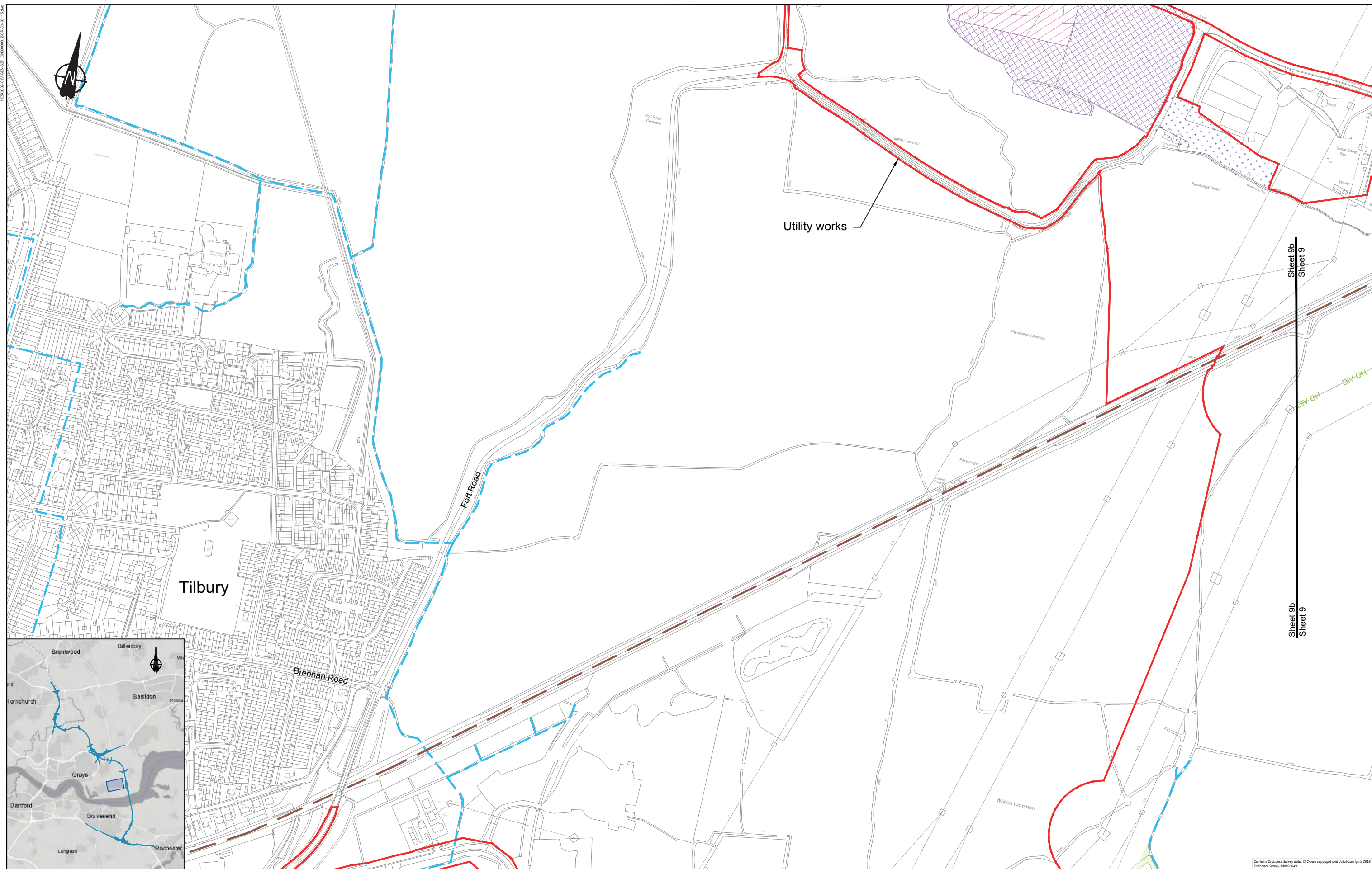
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SUPPLEMENTARY CONSULTATION

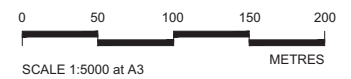
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SHEET 9a

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Sheet 9b
Sheet 9

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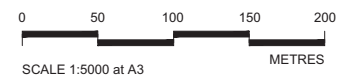
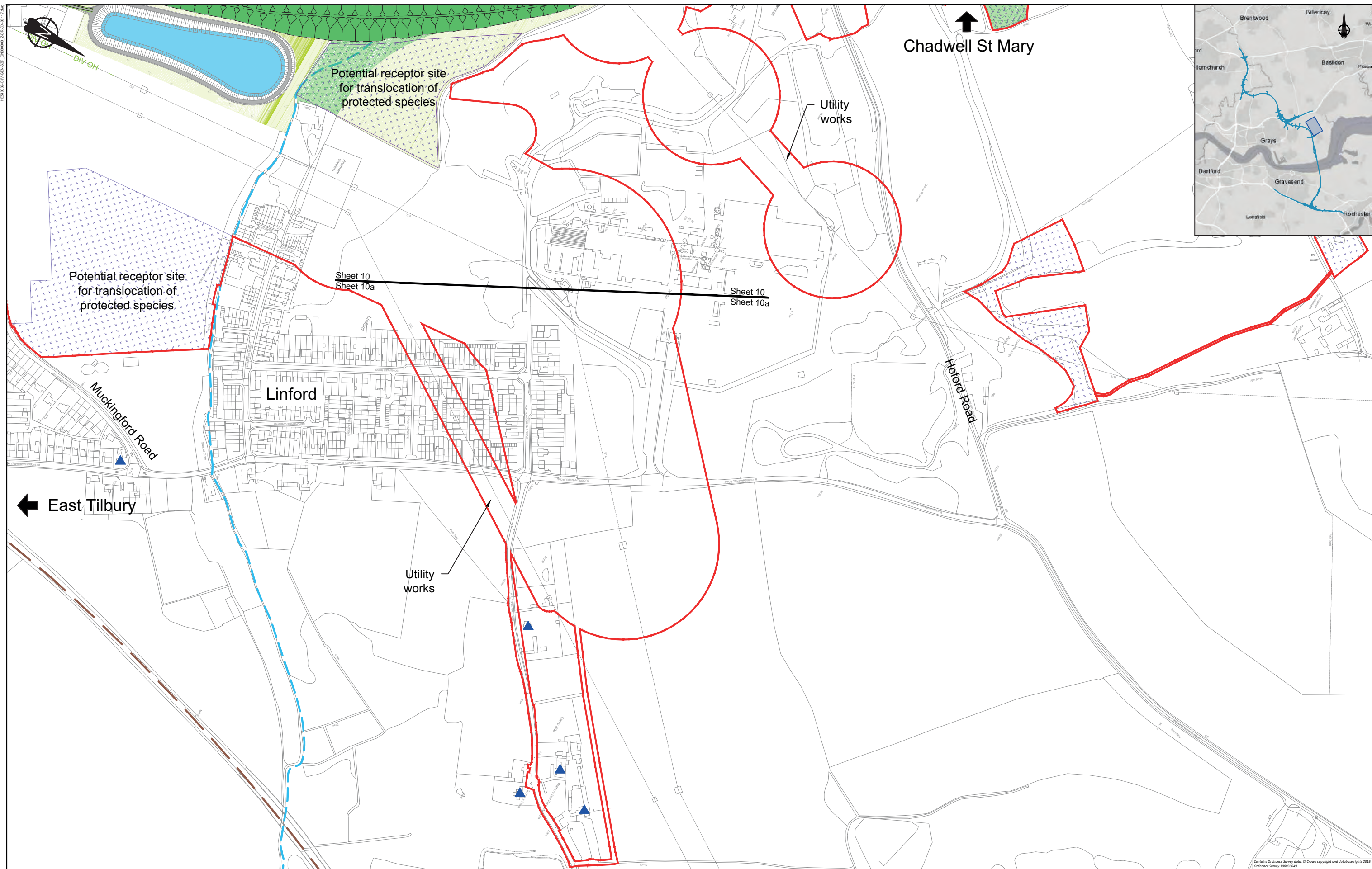


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SUPPLEMENTARY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 9b



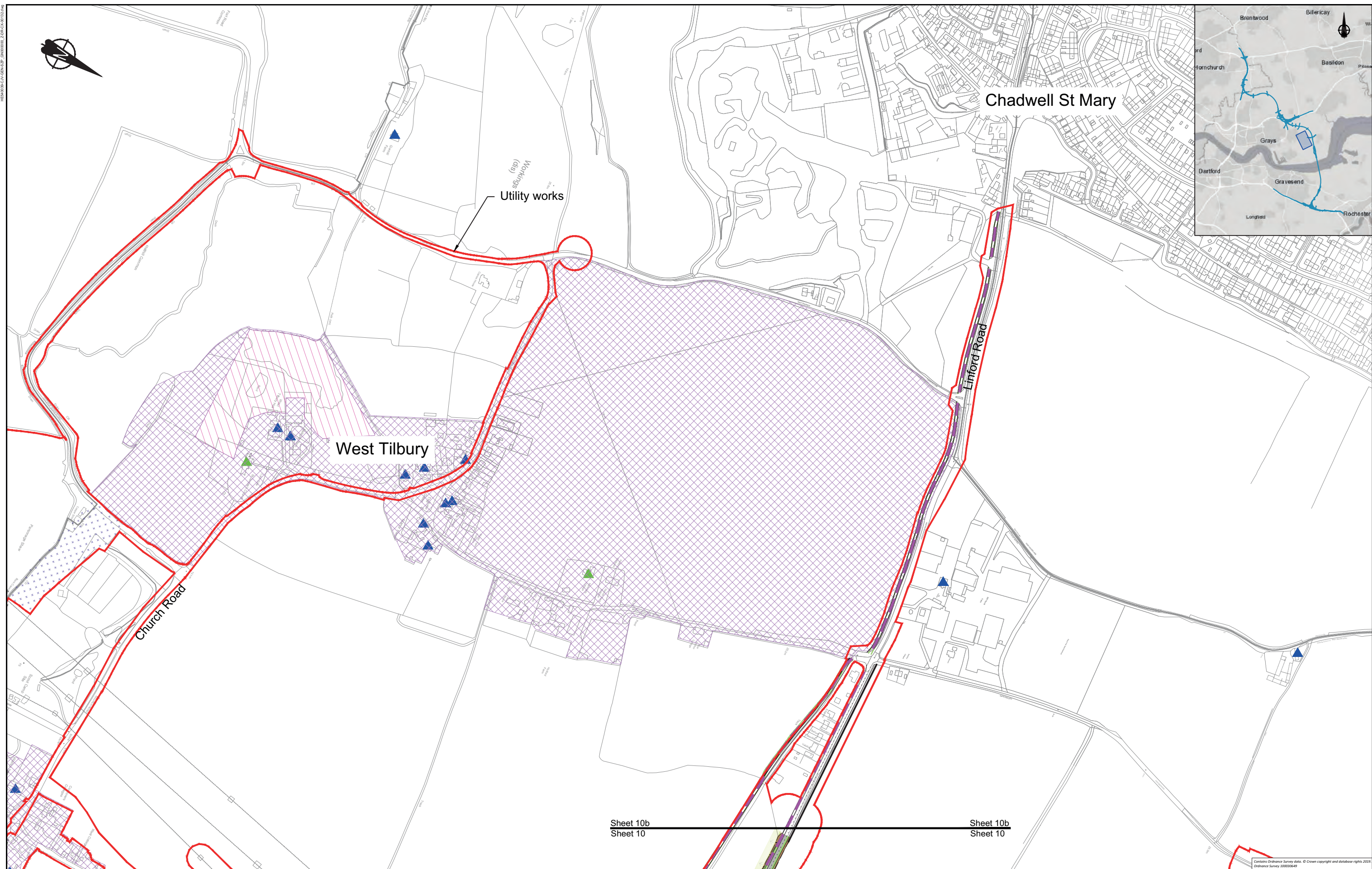
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

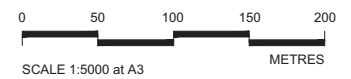
Drawing title GENERAL ARRANGEMENT PLAN SHEET 10a

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Sheet 10b
Sheet 10

Sheet 10b
Sheet 10

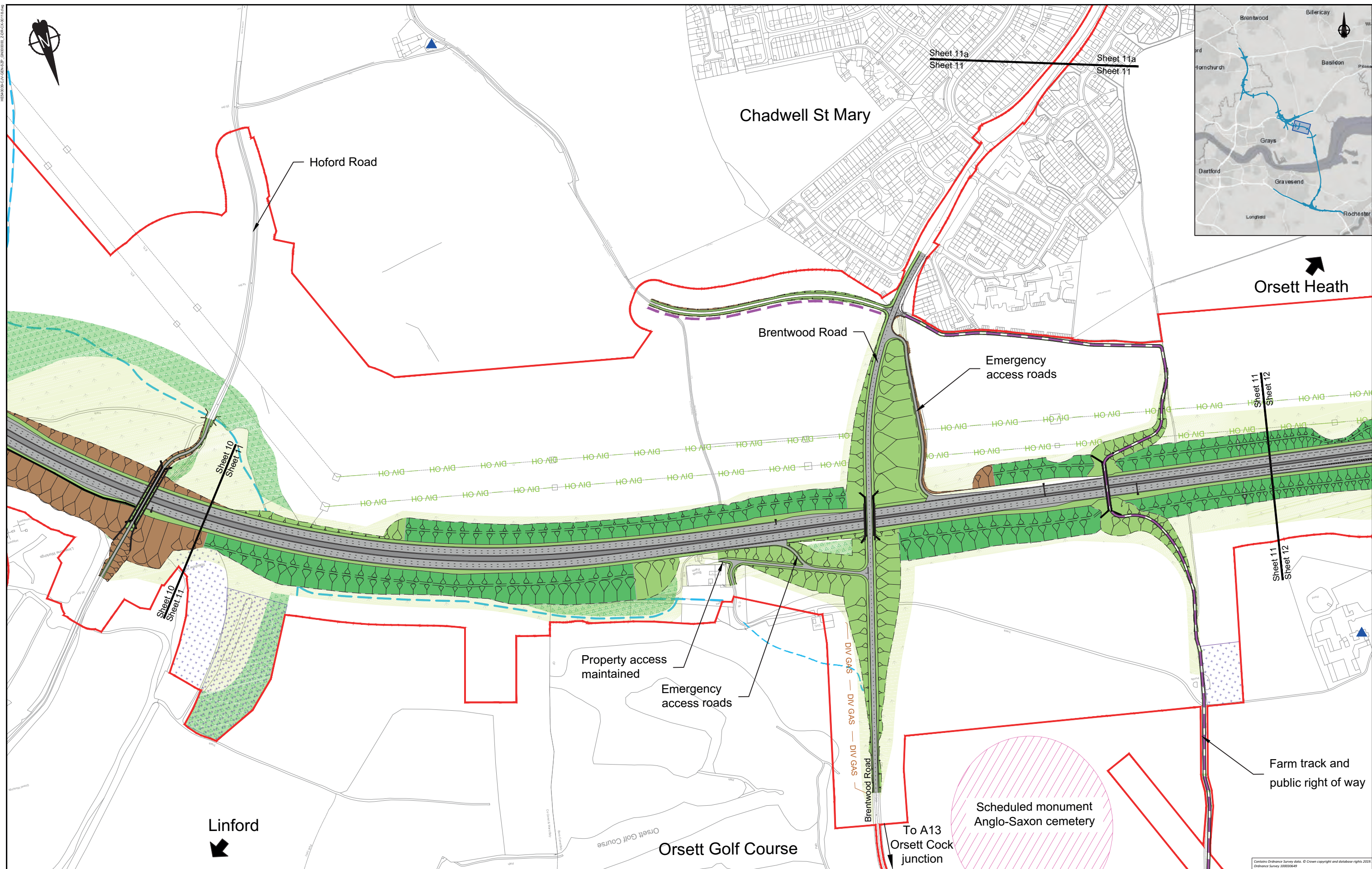


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 10b



Client
**highways
 england**

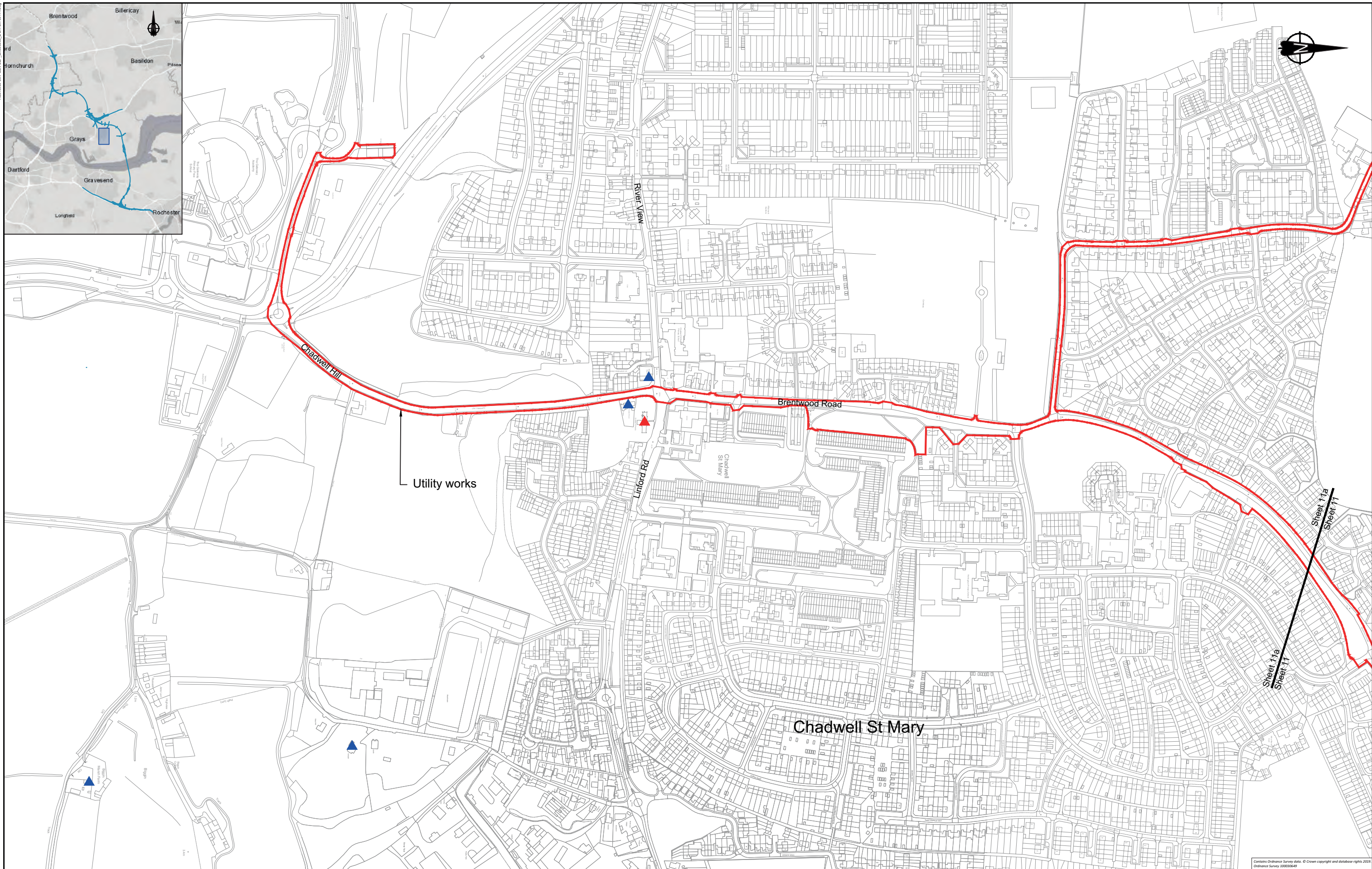
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 CONSULTATION**

Project
 LOWER THAMES CROSSING
 SUPPLEMENTARY CONSULTATION

Drawing title
 GENERAL ARRANGEMENT PLAN
 SHEET 11

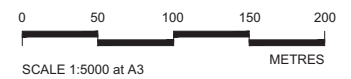
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Utility works

Sheet 11a
Sheet 11



Client

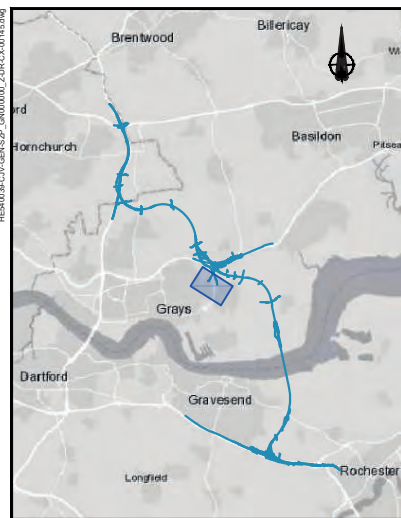


PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN SHEET 11a**

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To Tibury Port



Little
Thurrock

Chadwell St
Mary



Utility
works

B188

Orsett
Heath

Health Road

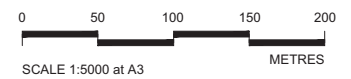
Sheet 12a
Sheet 12

Sheet 12a
Sheet 12

Orsett



Sheet 12
Sheet 14



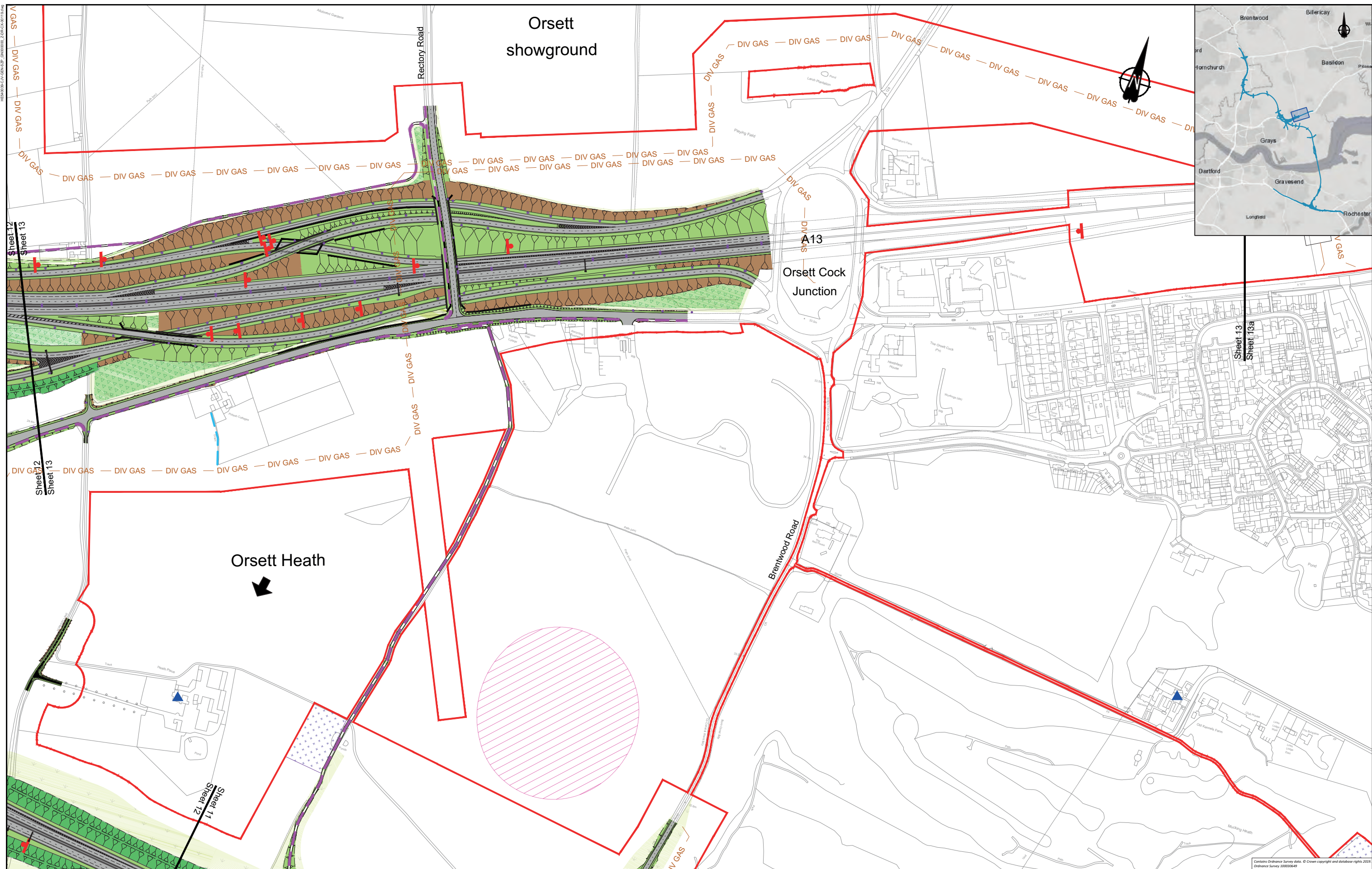
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**PROPOSALS FOR
CONSULTATION**

Project LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN
SHEET 12a

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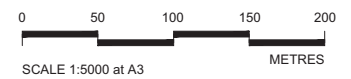


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Sheet 12
Sheet 13

Sheet 11
Sheet 12

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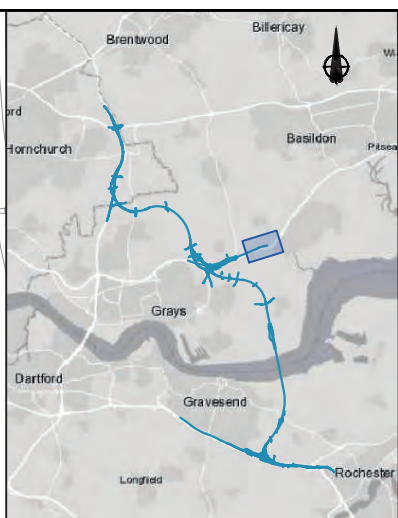
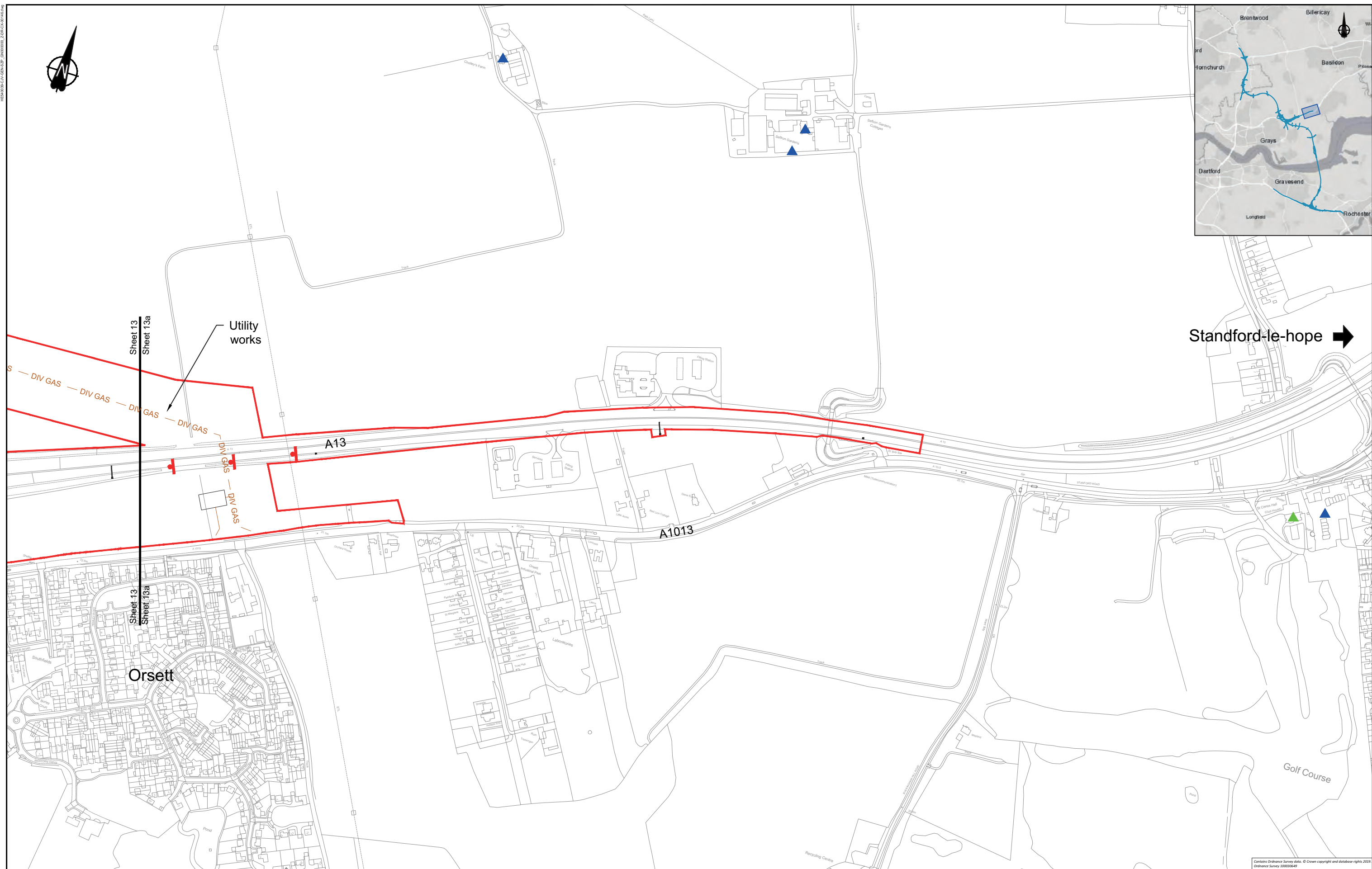
PROPOSALS FOR CONSULTATION

Project

LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

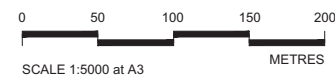
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GENERAL ARRANGEMENT PLAN SHEET 13



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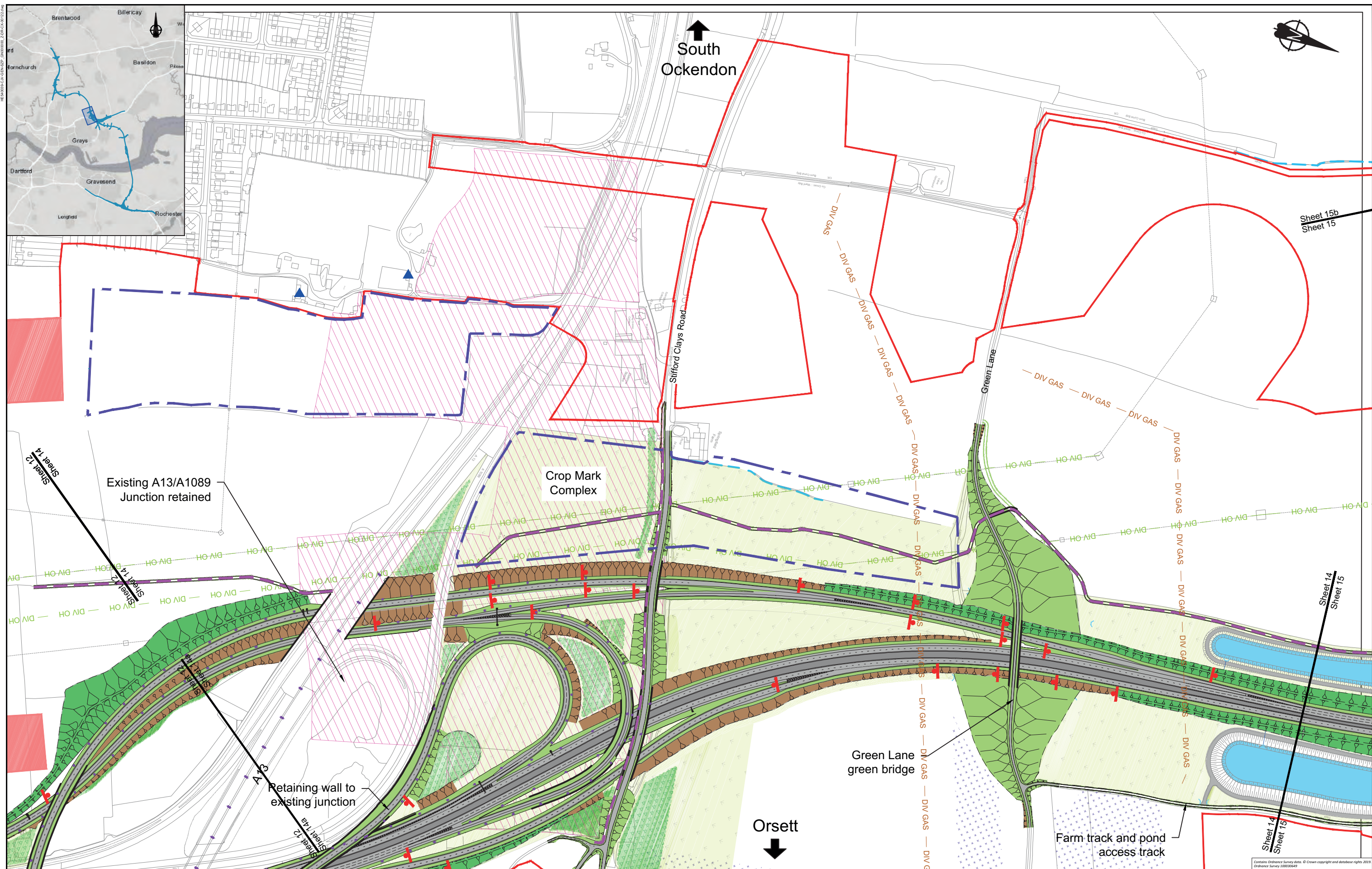


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 13a



Sheet 15b
Sheet 15

Sheet 14
Sheet 15

Sheet 14
Sheet 15

South
Ockendon

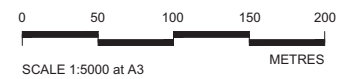
Orsett

Existing A13/A1089
Junction retained

Crop Mark
Complex

Green Lane
green bridge

Farm track and pond
access track



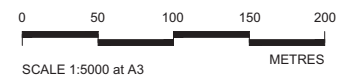
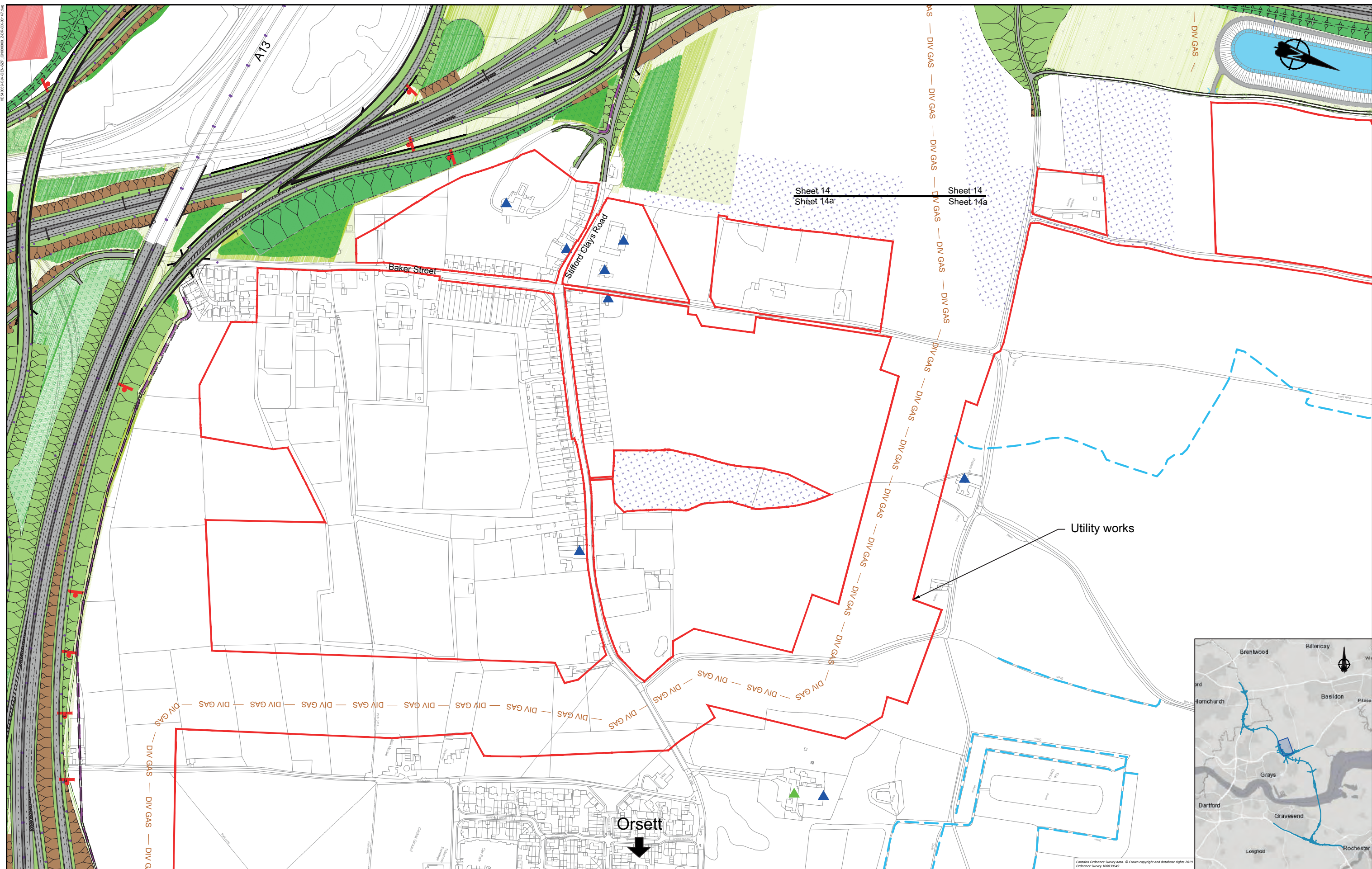
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**PROPOSALS FOR
CONSULTATION**

Project LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 14

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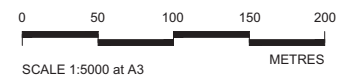
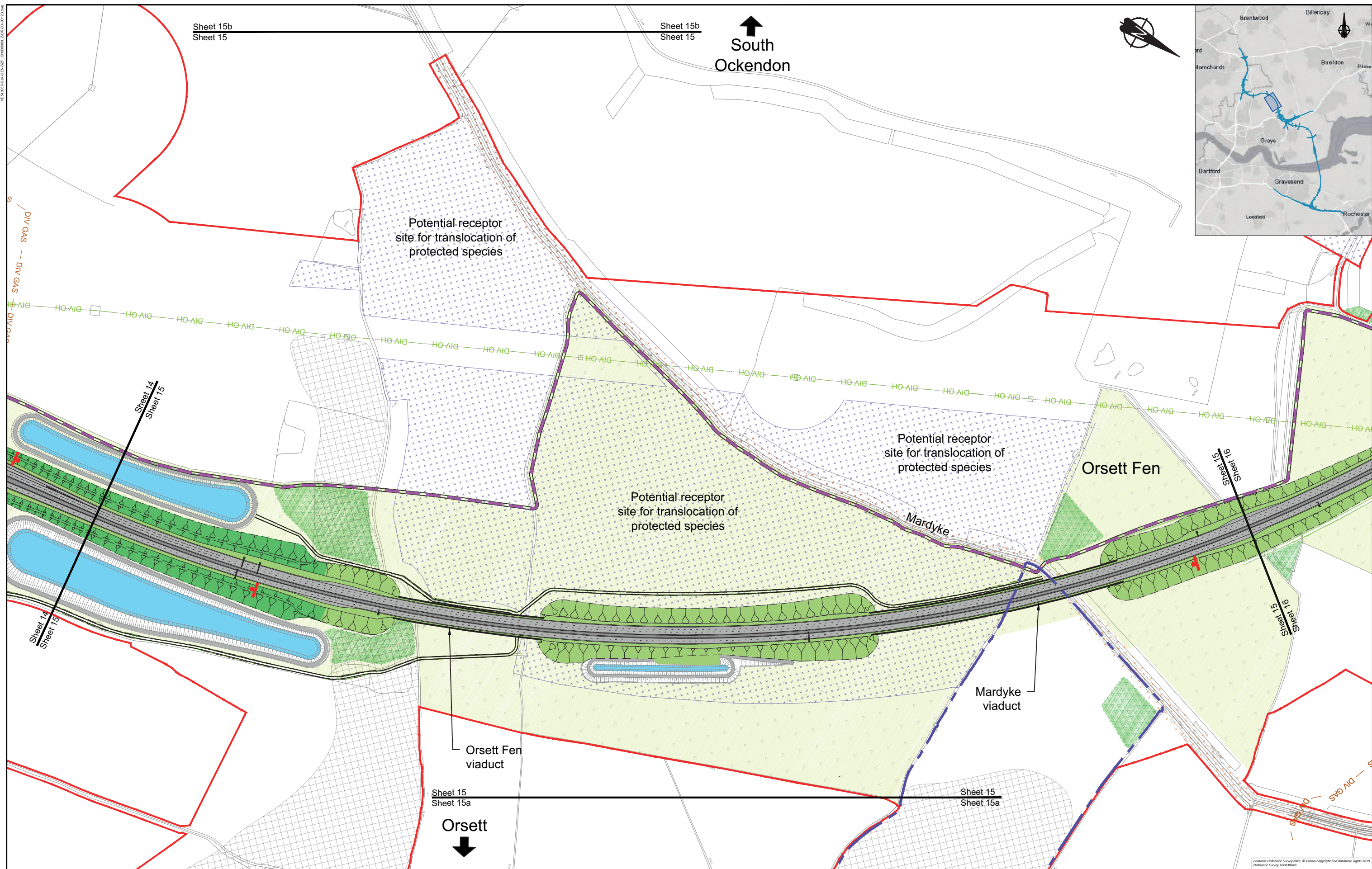


Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

Project
LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 14a



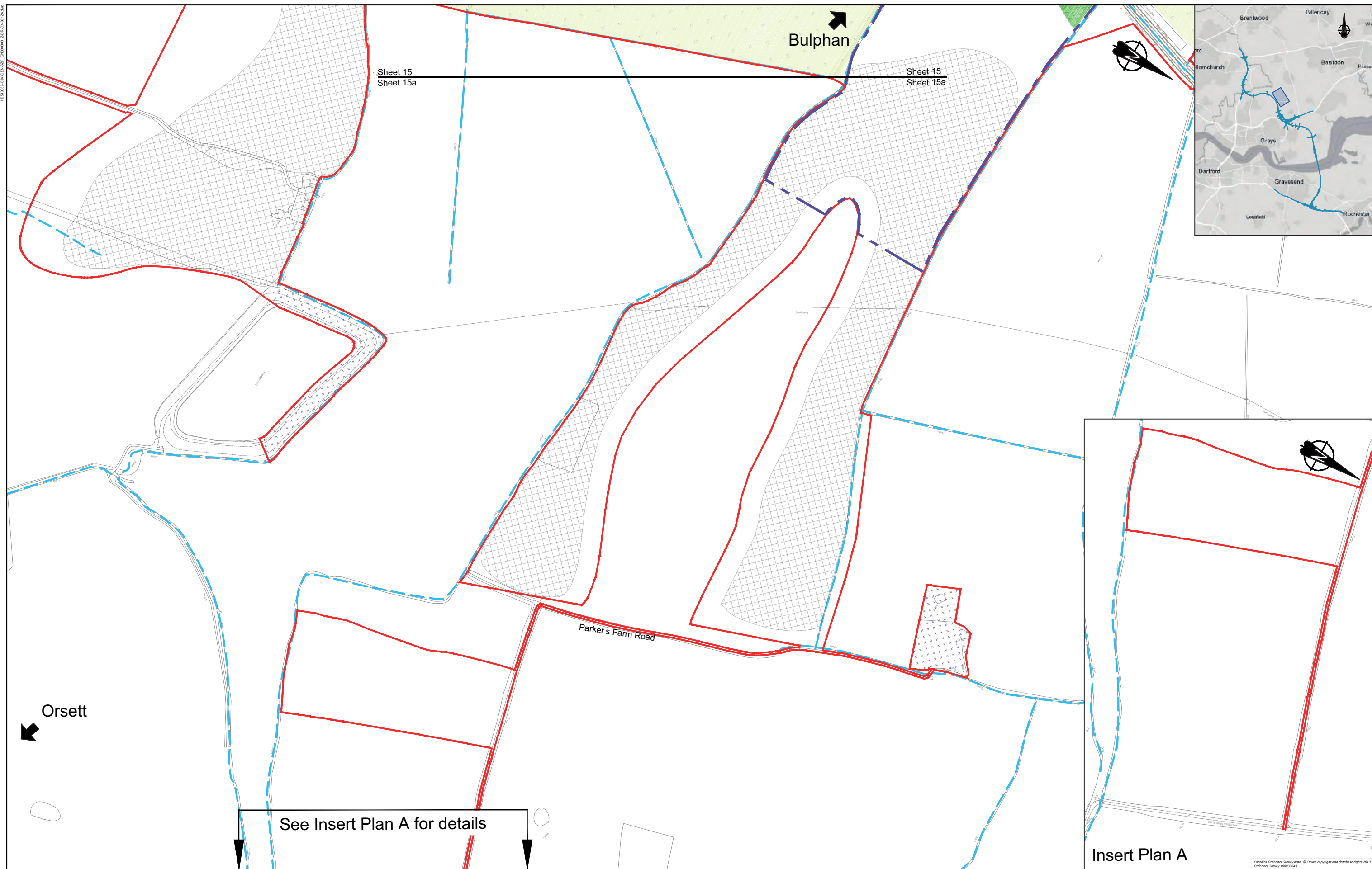
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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 15

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HE400334/ENR/027_000000_2/06/01/14/46

Sheet 15
Sheet 15a

Sheet 15
Sheet 15a

Bulphan

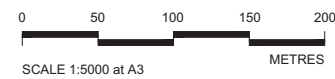
Orsett

Parker's Farm Road

See Insert Plan A for details

Insert Plan A

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Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 15a



Sheet 15c
Sheet 15b

Sheet 15c
Sheet 15b

South Ockendon

Little Thurrock

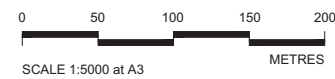
Orsett

Utility works

Sheet 15b
Sheet 15

Sheet 15b
Sheet 15

Sheet 15b
Sheet 16



Client

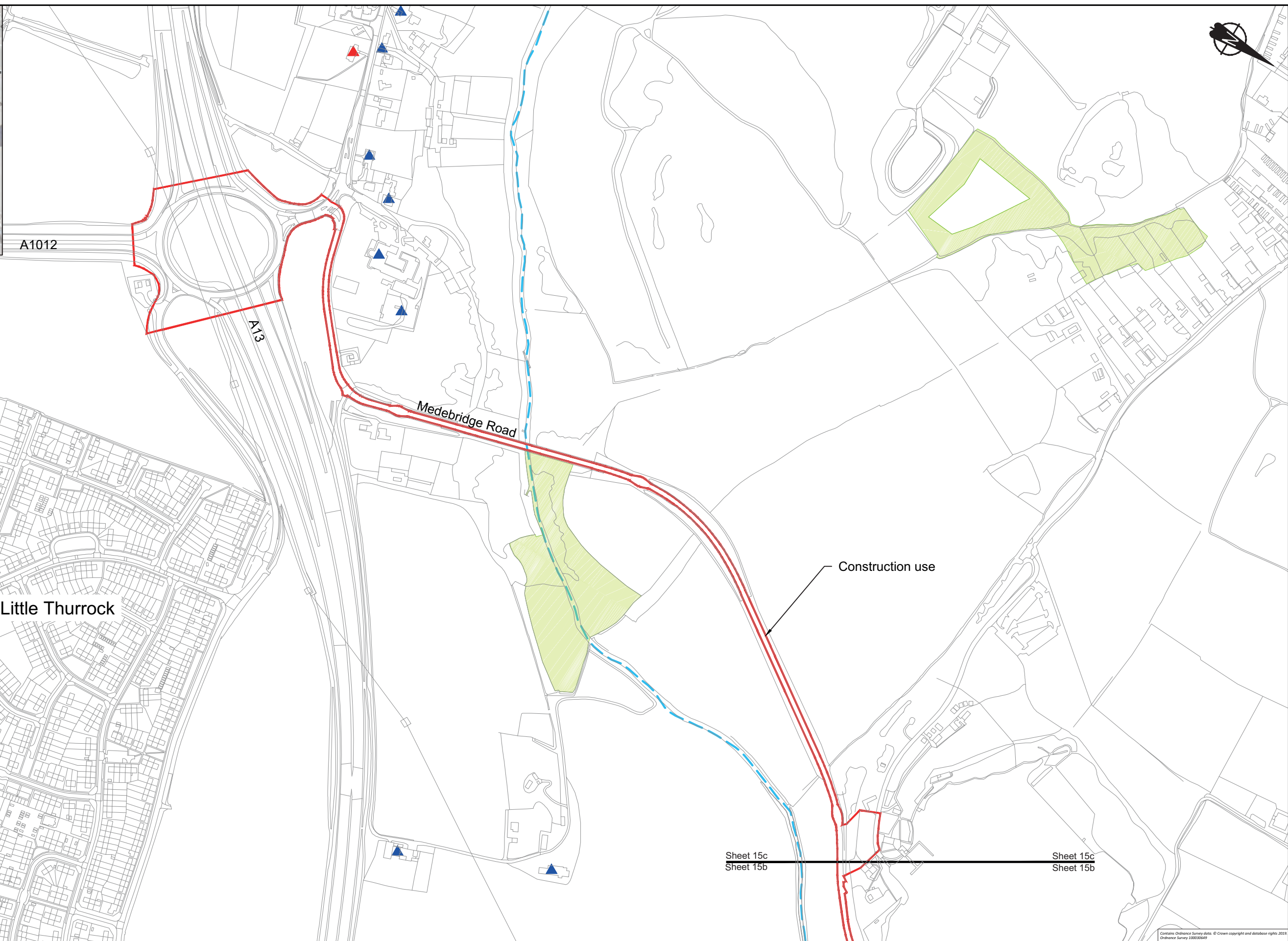


PROPOSALS FOR CONSULTATION

Project
**LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION**

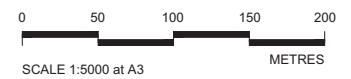
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**GENERAL ARRANGEMENT PLAN
SHEET 15b**


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Sheet 15c
Sheet 15b

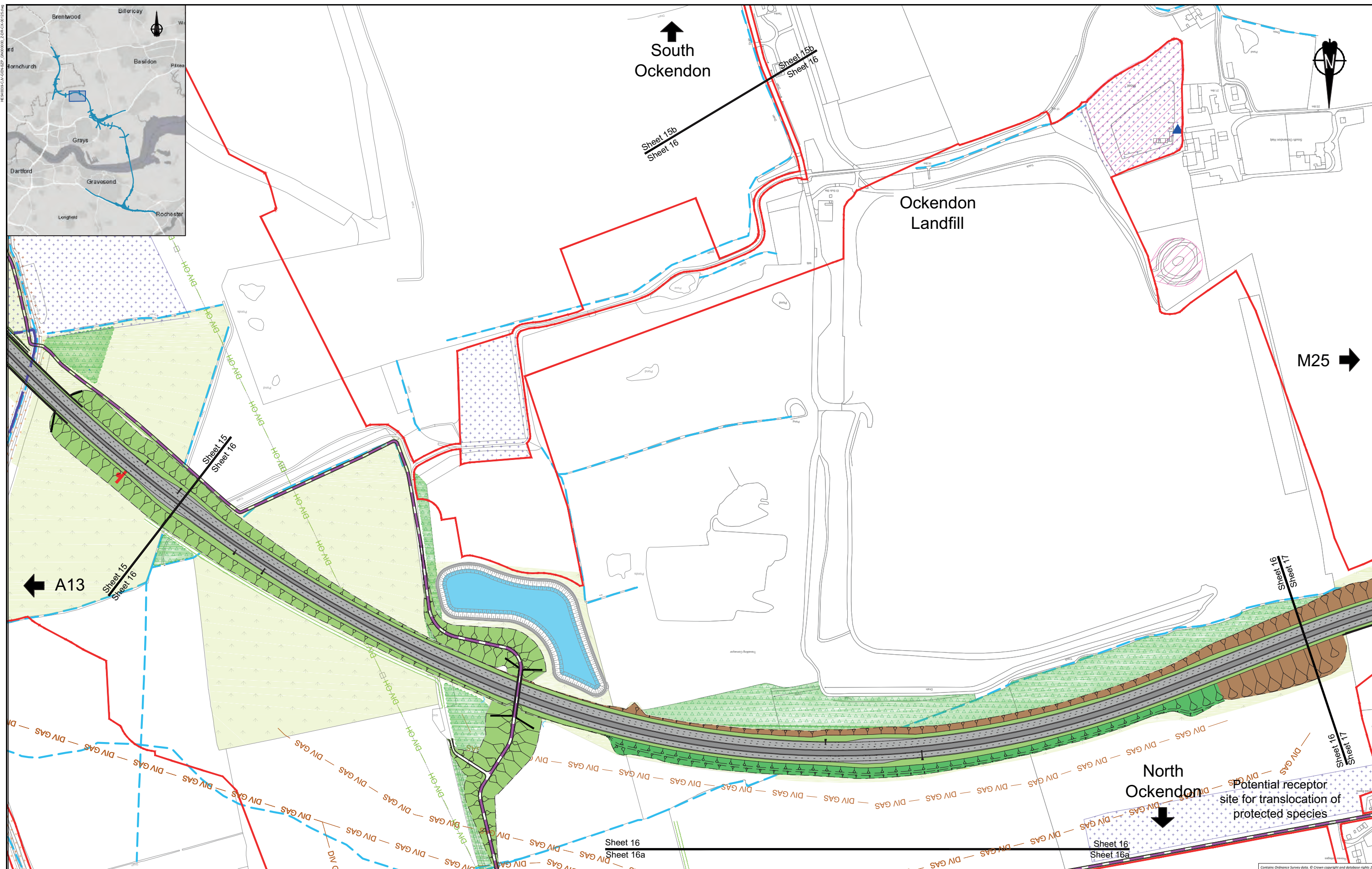
Sheet 15c
Sheet 15b



	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title GENERAL ARRANGEMENT PLAN SHEET 15c

**PROPOSALS FOR
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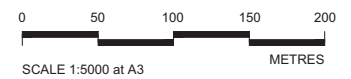
↑
South
Ockendon

→ M25

← A13

↓
North
Ockendon

Potential receptor
site for translocation of
protected species



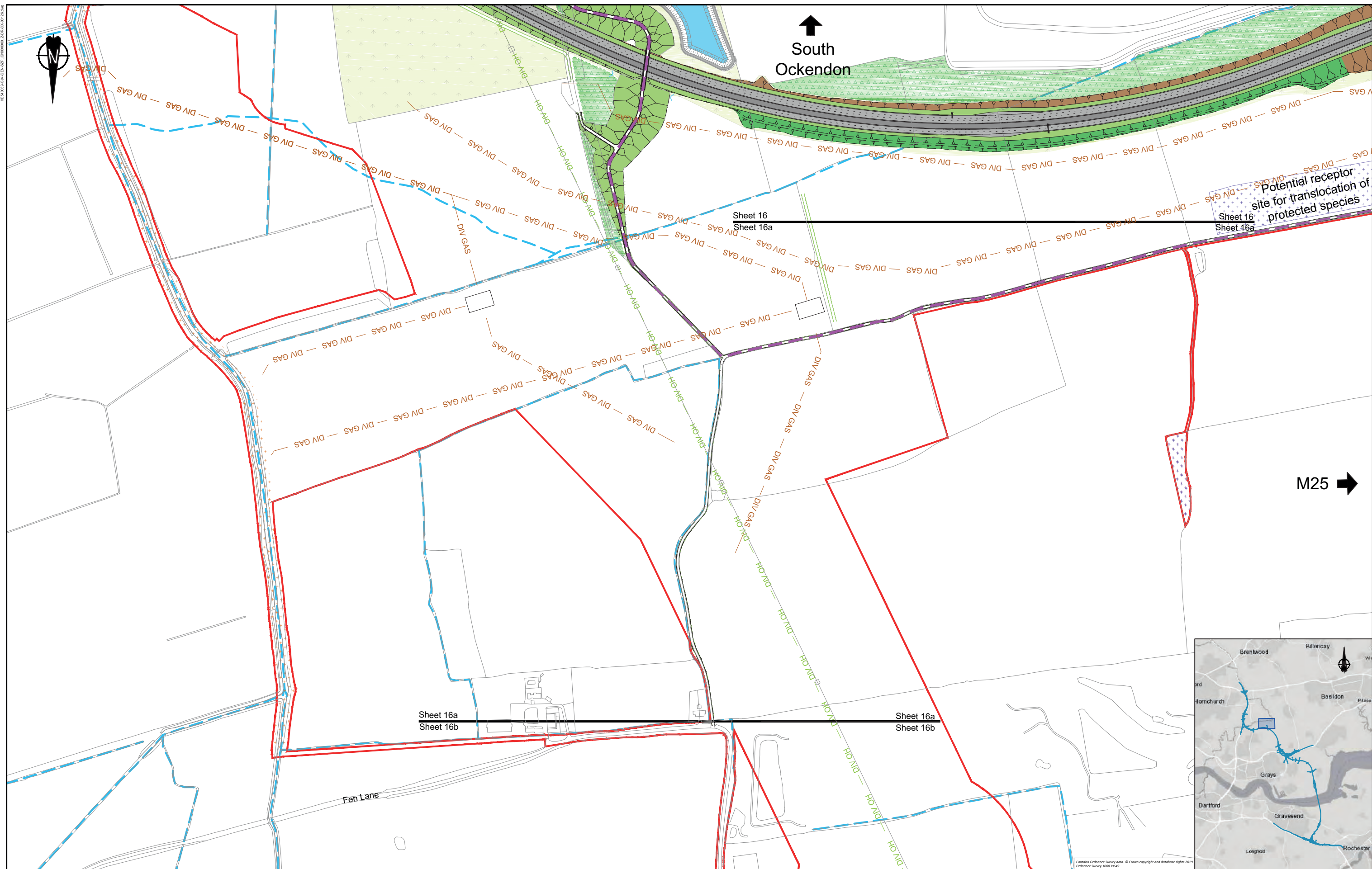
Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

Project
LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 16**

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Potential receptor site for translocation of protected species

Sheet 16
Sheet 16a

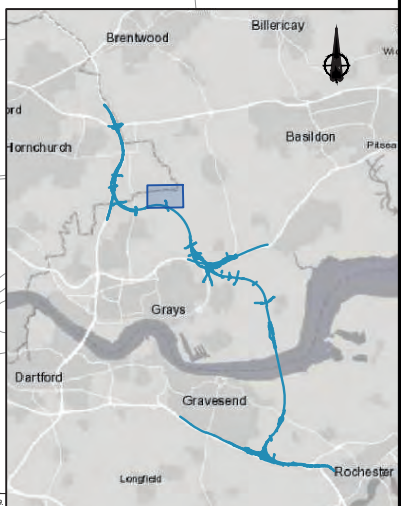
Sheet 16
Sheet 16a

Sheet 16a
Sheet 16b

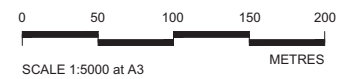
Sheet 16a
Sheet 16b

Fen Lane

M25 →



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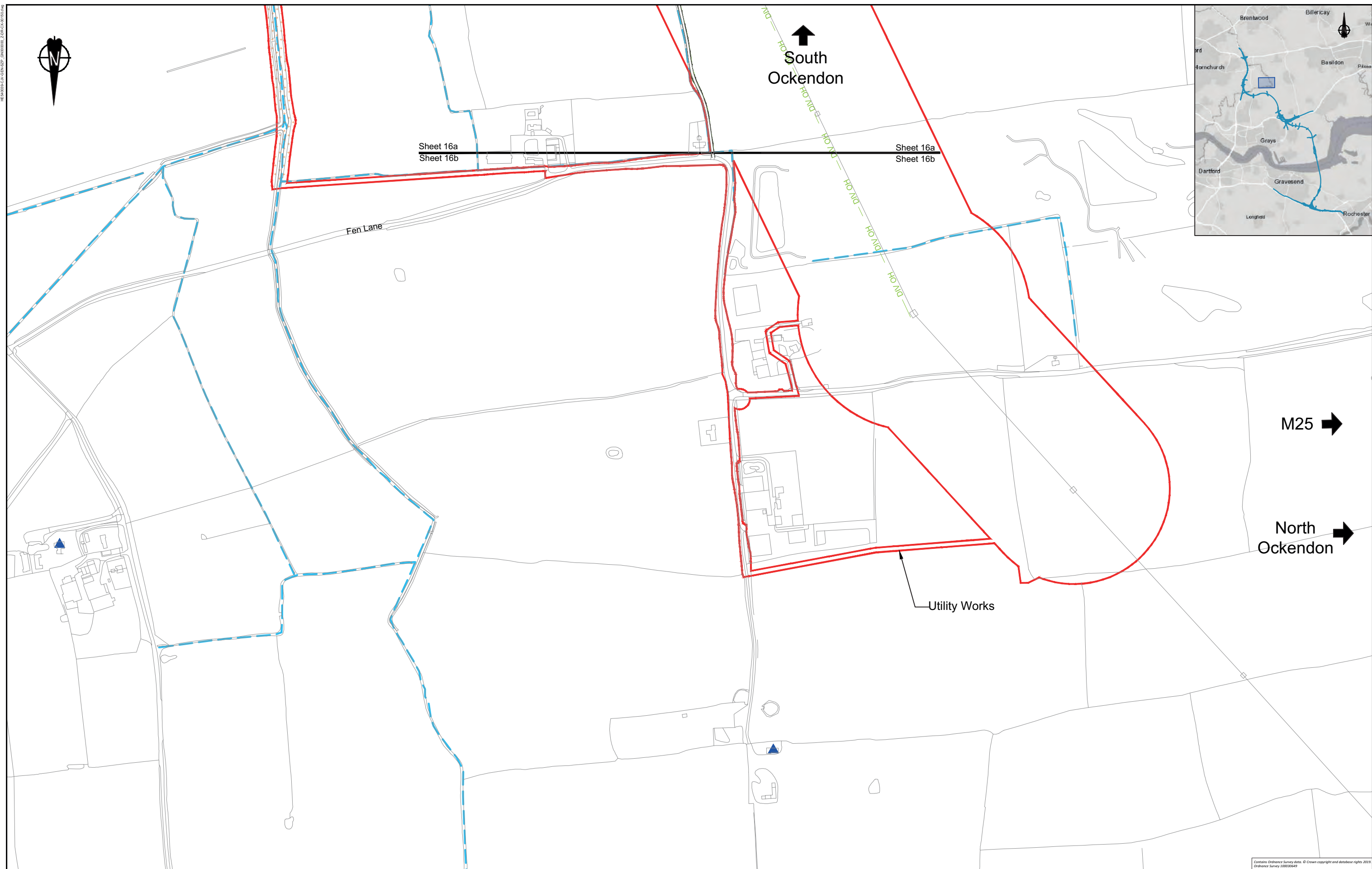


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PROPOSALS FOR CONSULTATION


Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 16a

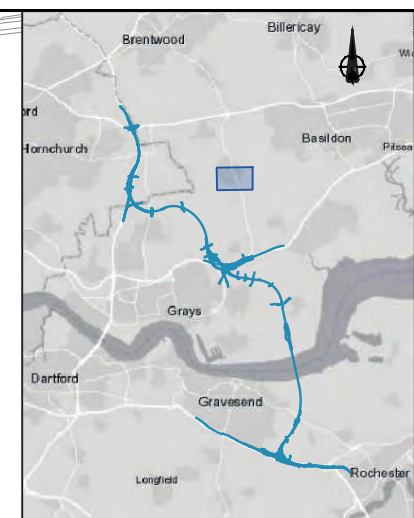


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	LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION	
PROPOSALS FOR CONSULTATION	Drawing title	GENERAL ARRANGEMENT PLAN SHEET 16b

HE400193/CA/EN/027_000000_2/06/CA/01/1/04



North Ockendon

Fen Lane

Church Road

M25

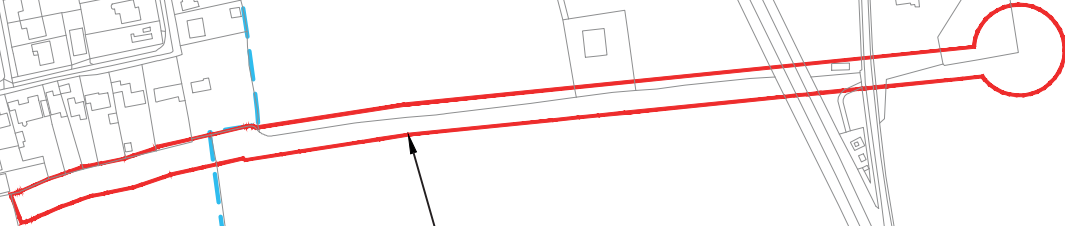
Basildon

Bulphan

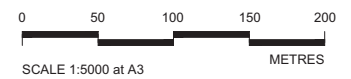
North Ockendon

Utility Works

A128



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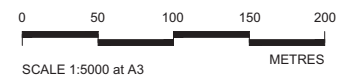
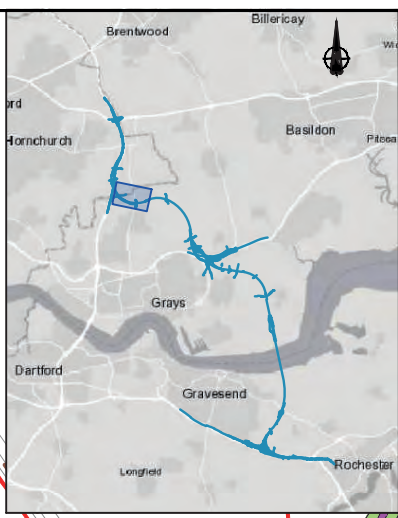
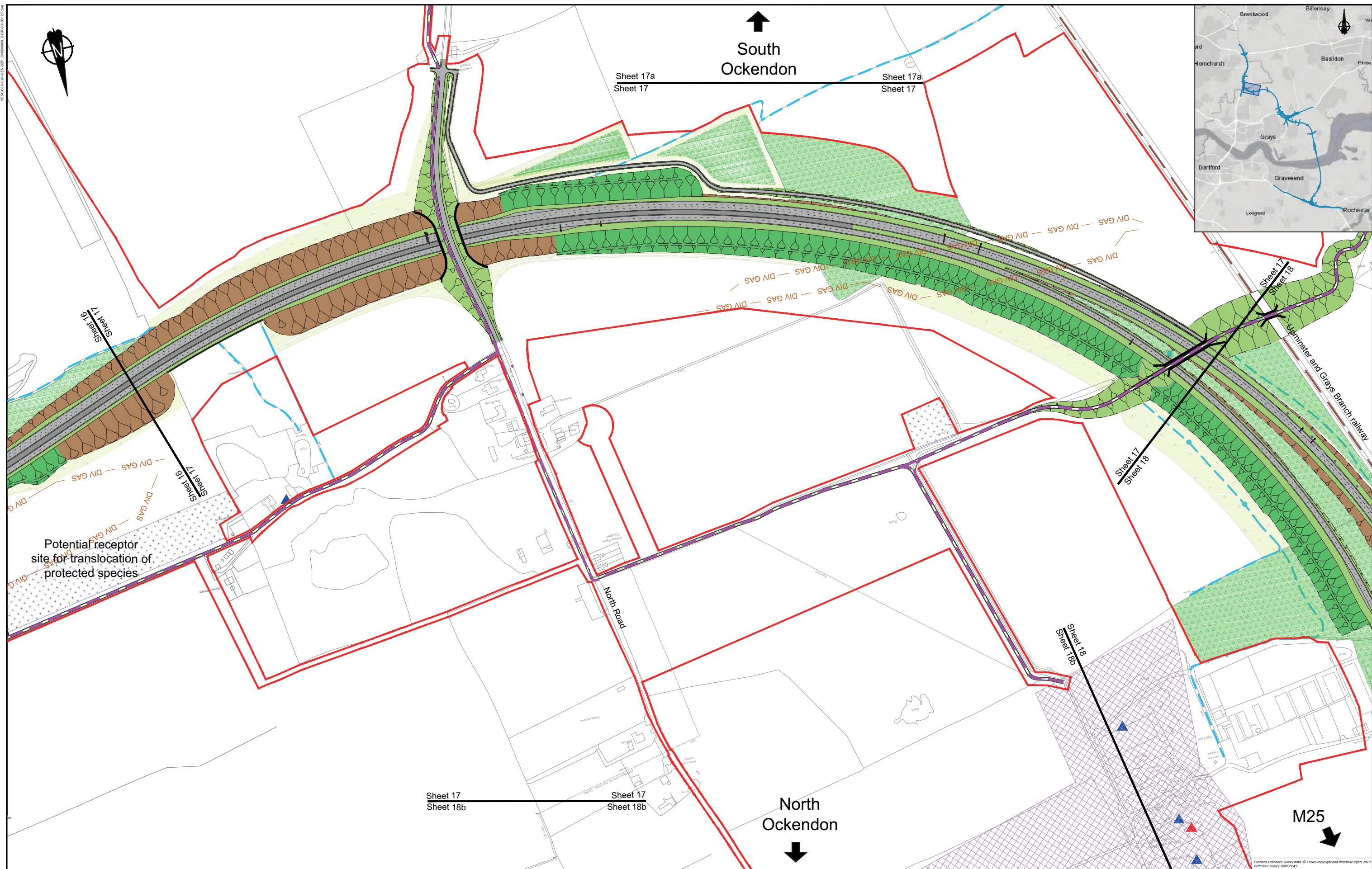
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 16c



Client
**highways
england**

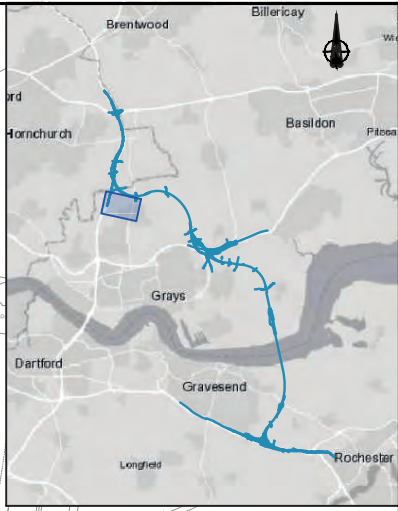
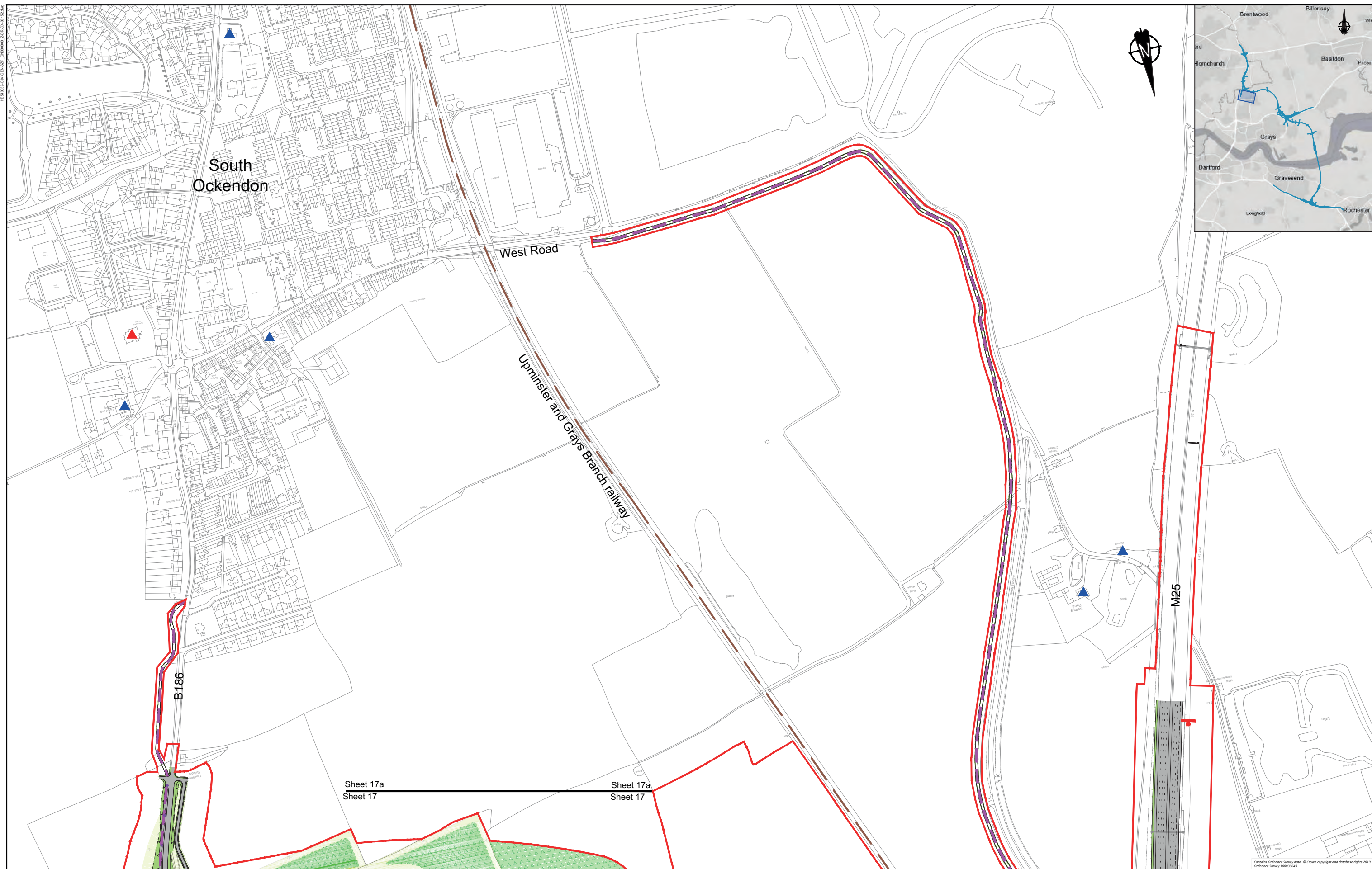
**PROPOSALS FOR
CONSULTATION**

Project
**LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION**

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 17**

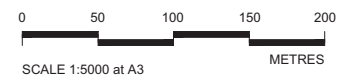
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Sheet 17a
Sheet 17

Sheet 17a
Sheet 17



	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title GENERAL ARRANGEMENT PLAN SHEET 17a

**PROPOSALS FOR
CONSULTATION**

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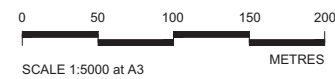
South Ockendon

Sheet 18a
Sheet 18

Sheet 18a
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Sheet 18b

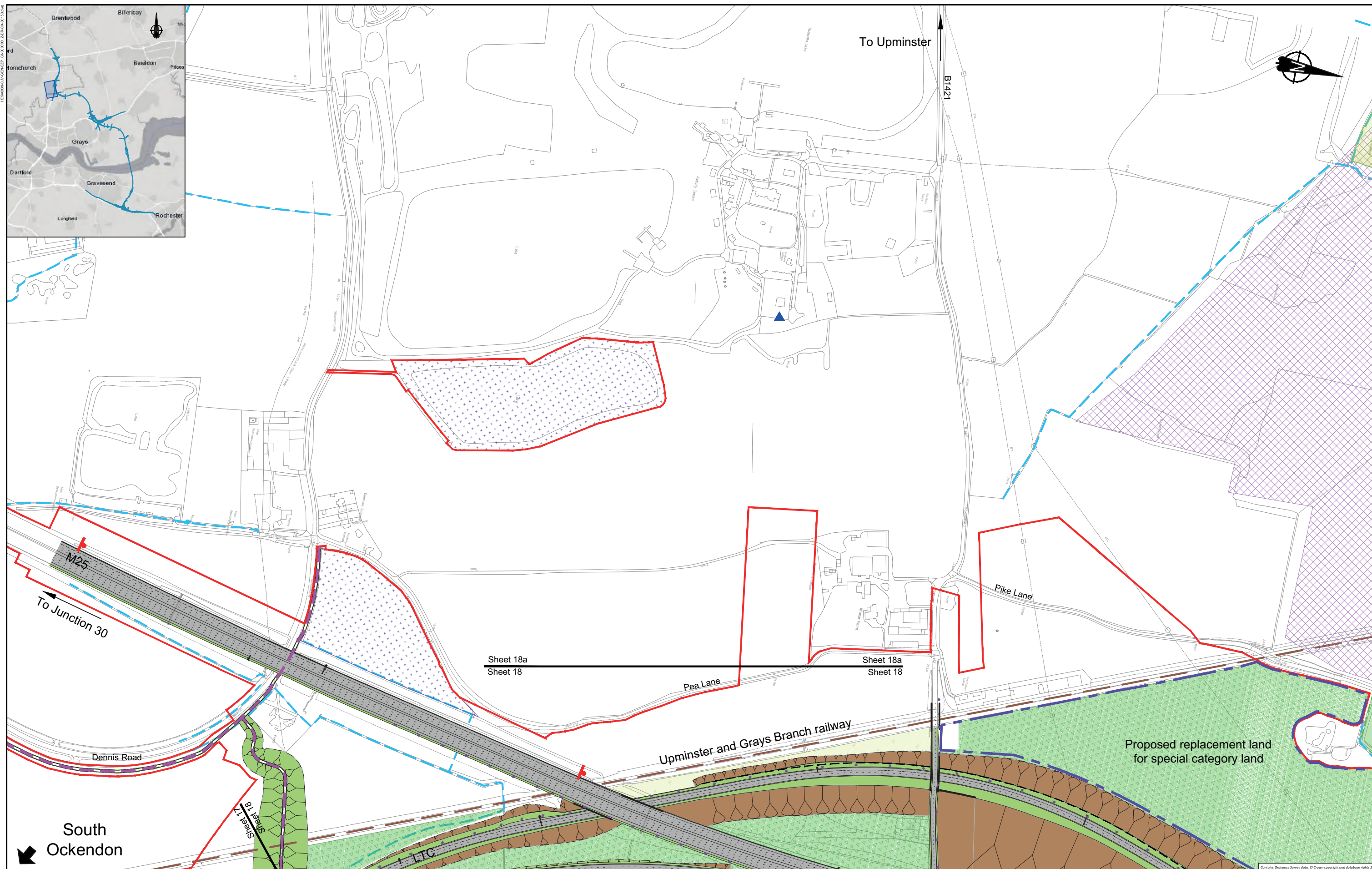
Sheet 18
Sheet 18b



	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title GENERAL ARRANGEMENT PLAN SHEET 18

**PROPOSALS FOR
CONSULTATION**

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South Ockendon

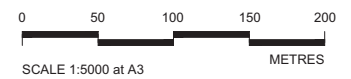
To Upminster

Sheet 18a
Sheet 18

Sheet 18a
Sheet 18

Upminster and Grays Branch railway

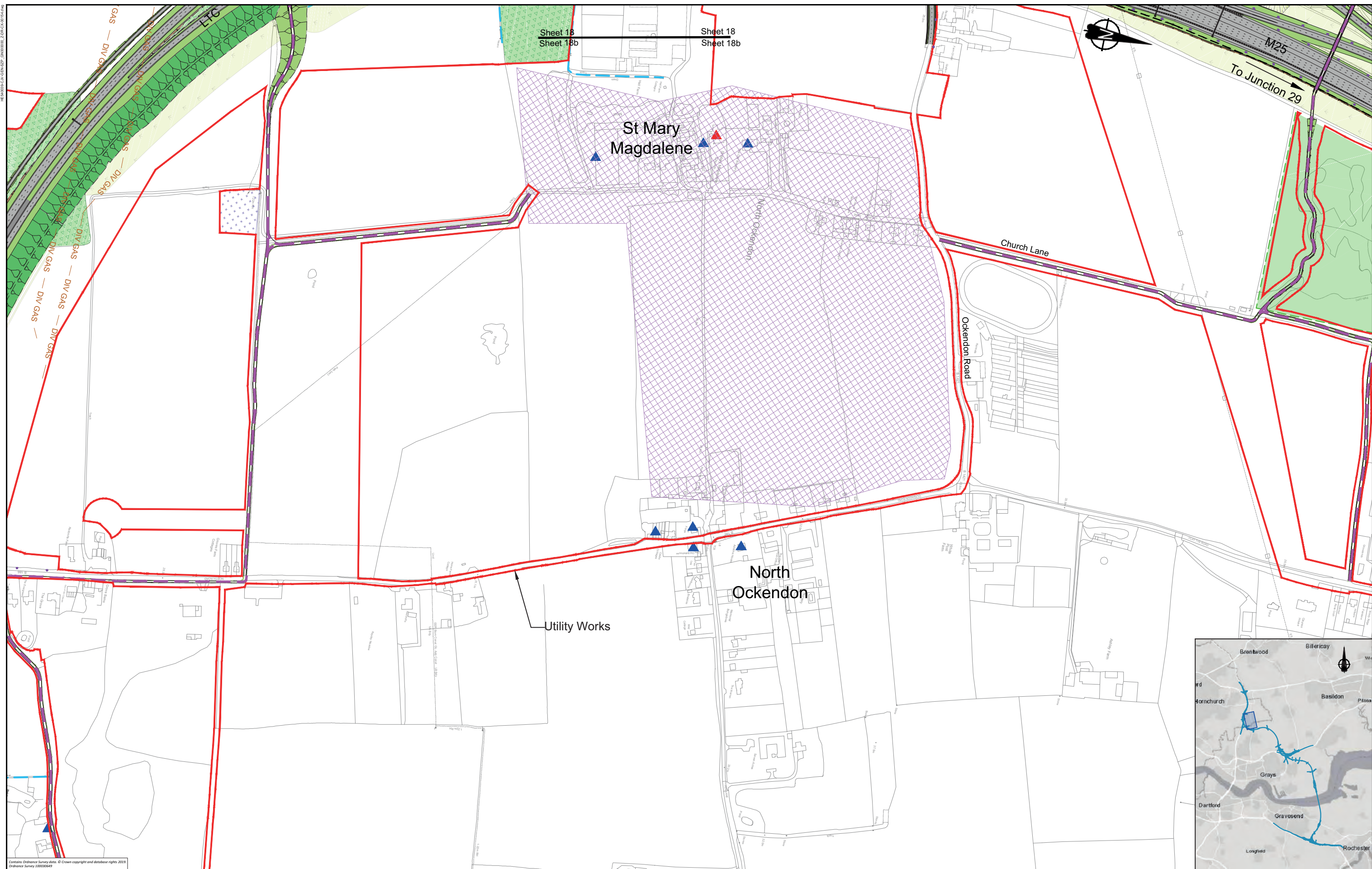
Proposed replacement land for special category land



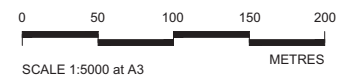
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	Drawing title GENERAL ARRANGEMENT PLAN SHEET 18a

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Client

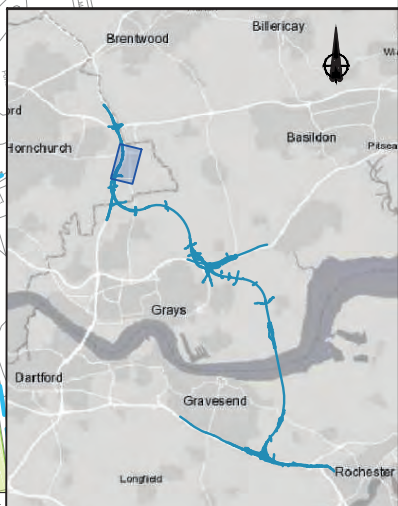
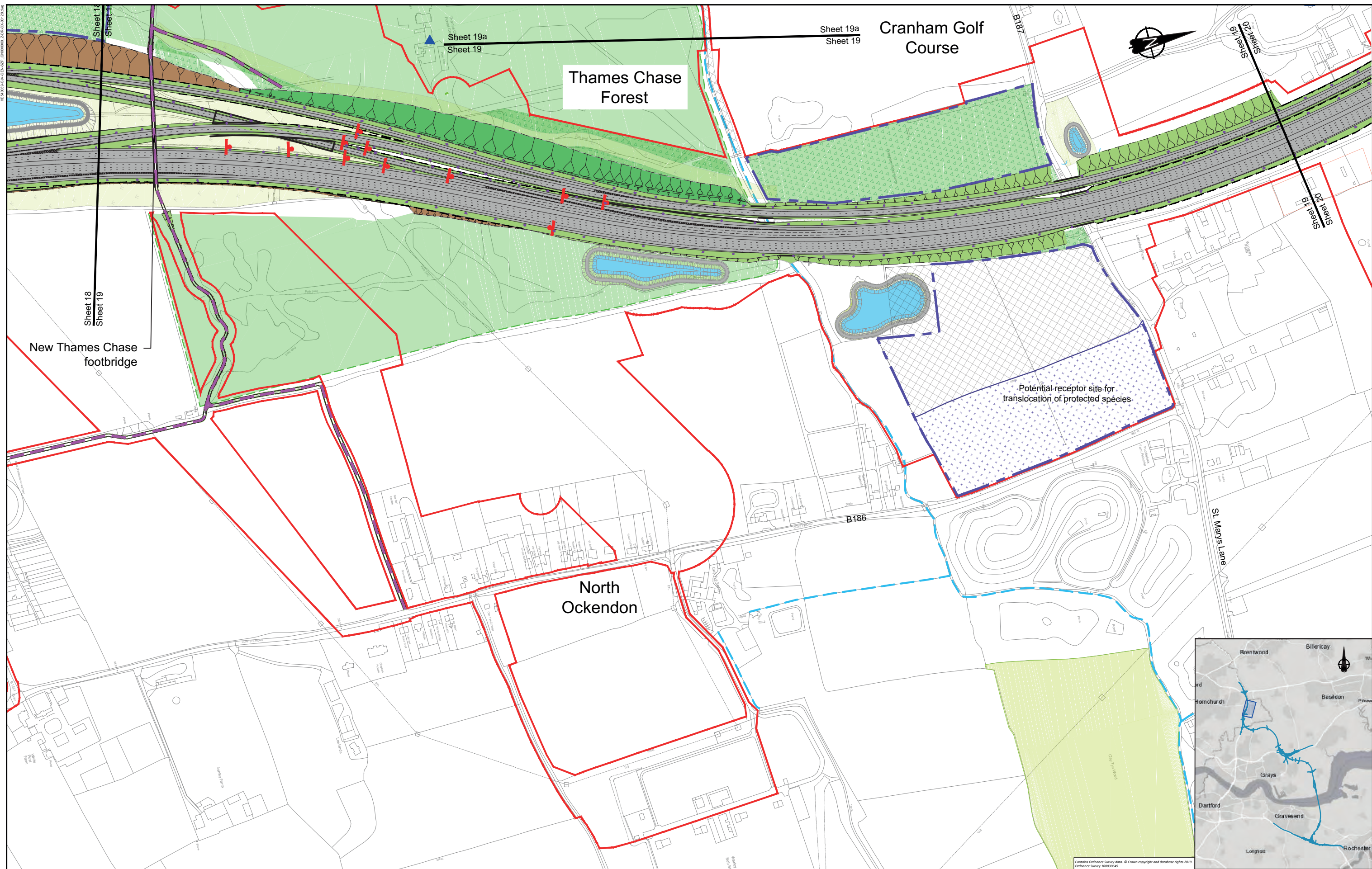


PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN SHEET 18b**





Sheet 19a
Sheet 19

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Sheet 19a
Sheet 19

Sheet 18
Sheet 19

Sheet 19
Sheet 20

Thames Chase Forest

Cranham Golf Course

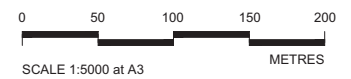
North Ockendon

Potential receptor site for translocation of protected species

New Thames Chase footbridge

B186

St Mary's Lane



Client
highways england

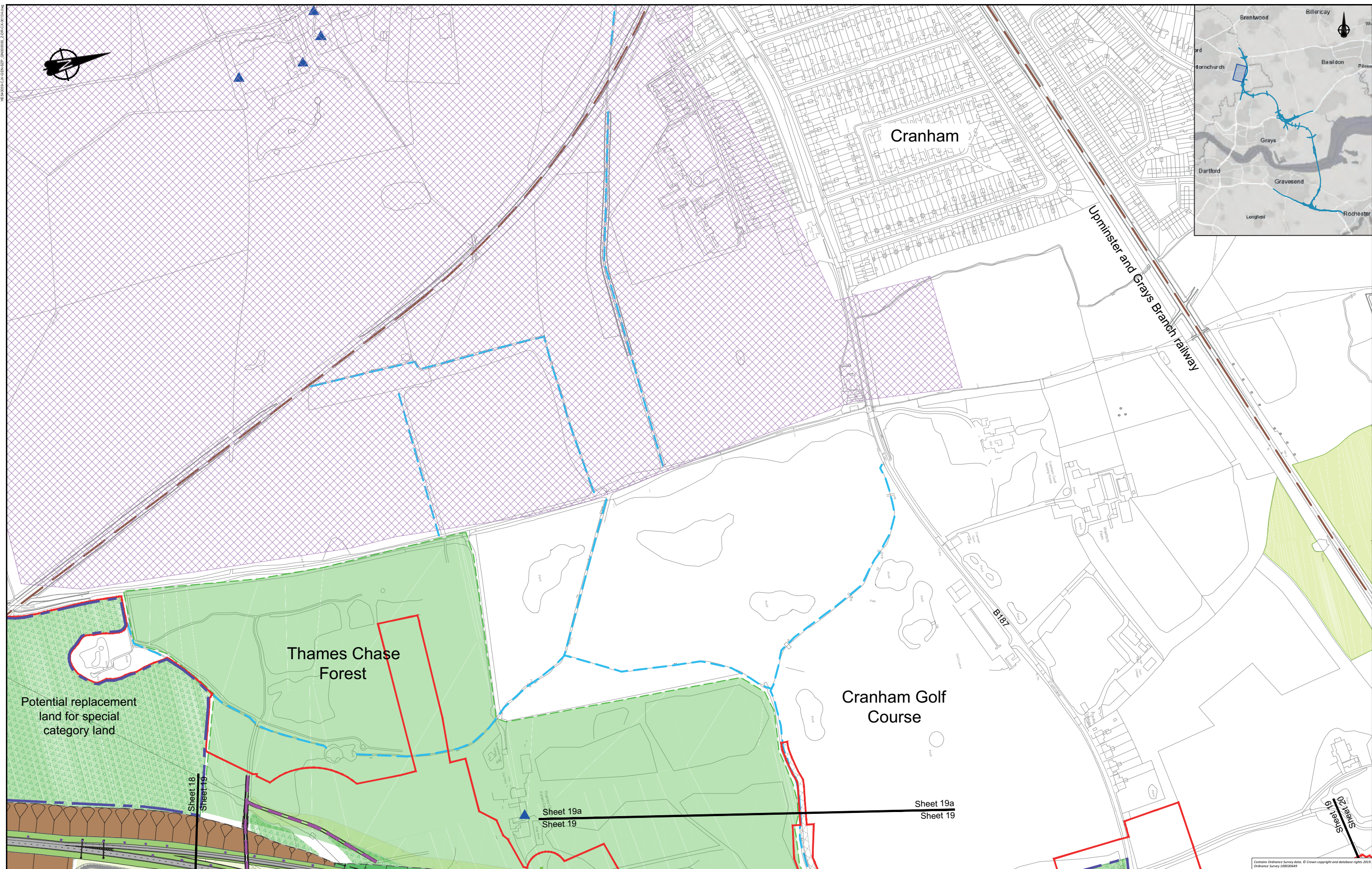
PROPOSALS FOR CONSULTATION

Project
LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

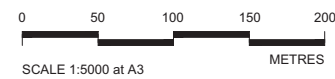
Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 19

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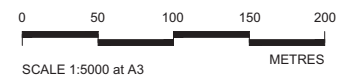
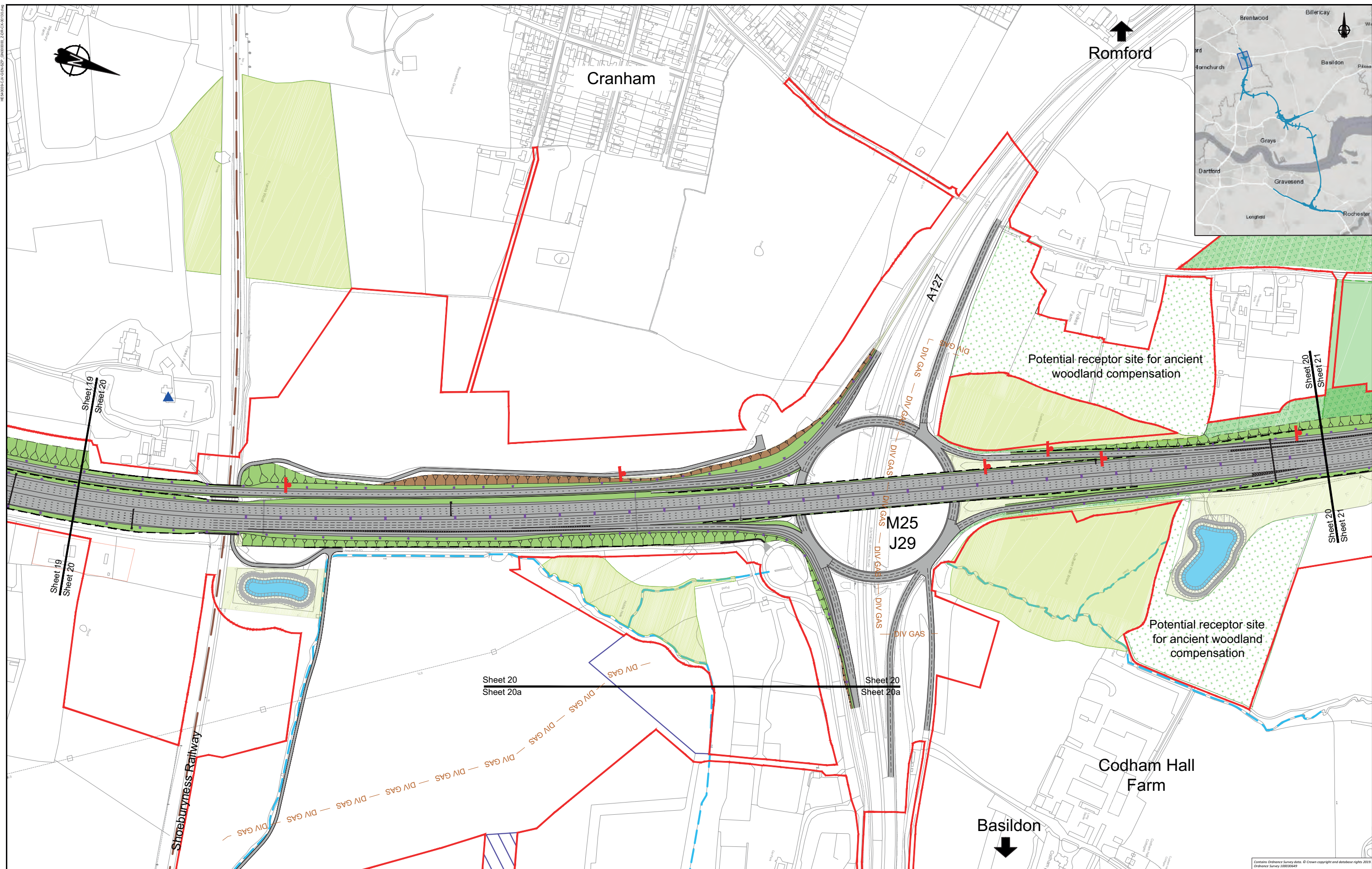
Client
**highways
england**

**PROPOSALS FOR
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Project
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SUPPLEMENTARY CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 19a**

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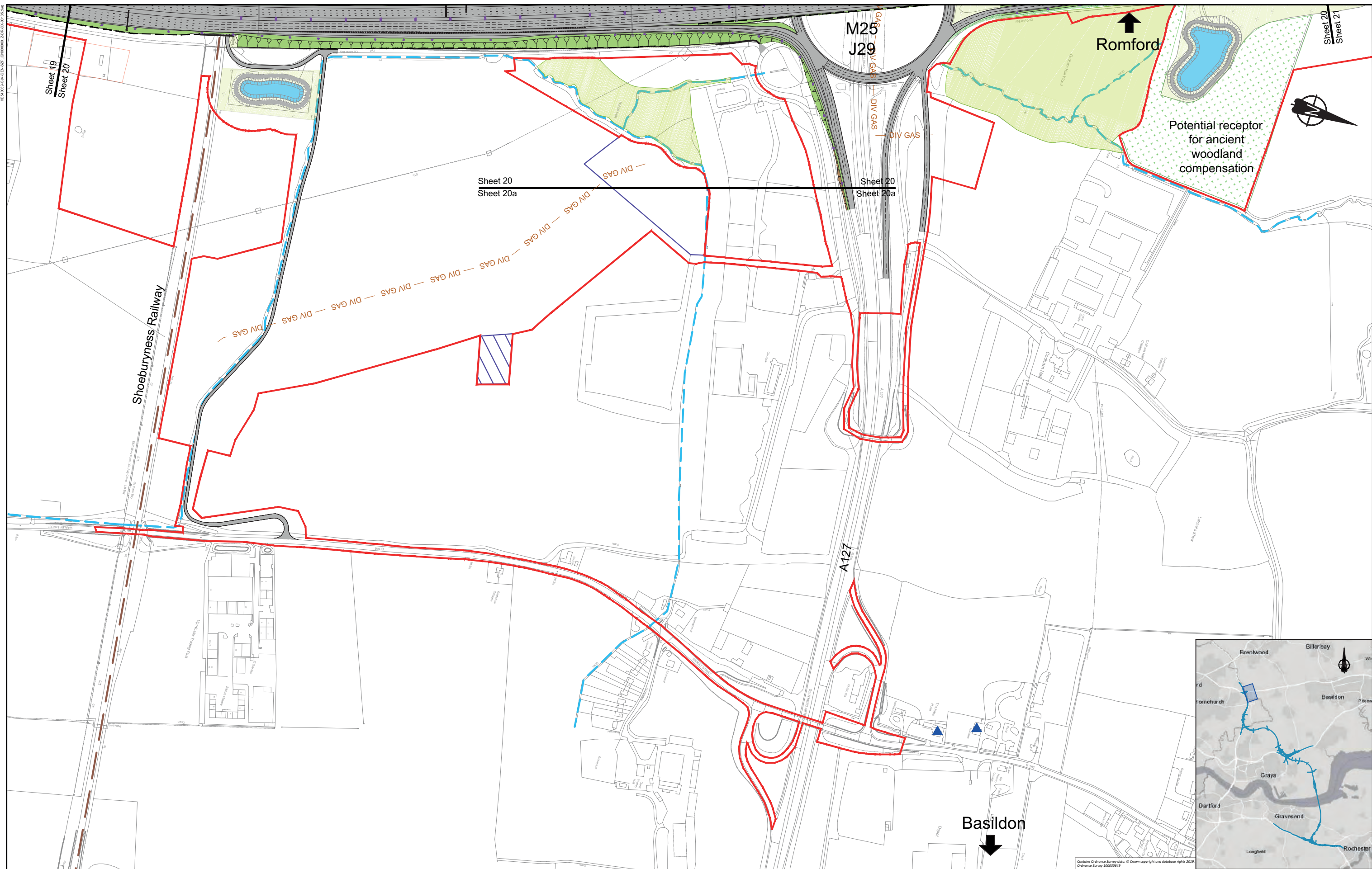
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PROPOSALS FOR CONSULTATION

Project
 LOWER THAMES CROSSING
 SUPPLEMENTARY CONSULTATION
 Drawing title
GENERAL ARRANGEMENT PLAN
 SHEET 20

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Sheet 19
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Sheet 20a

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Sheet 20a

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Sheet 21

Shoeburyness Railway

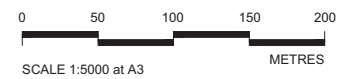
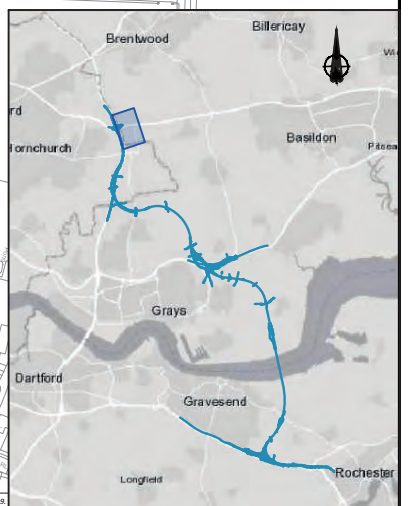
M25
J29

Romford

Potential receptor
for ancient
woodland
compensation

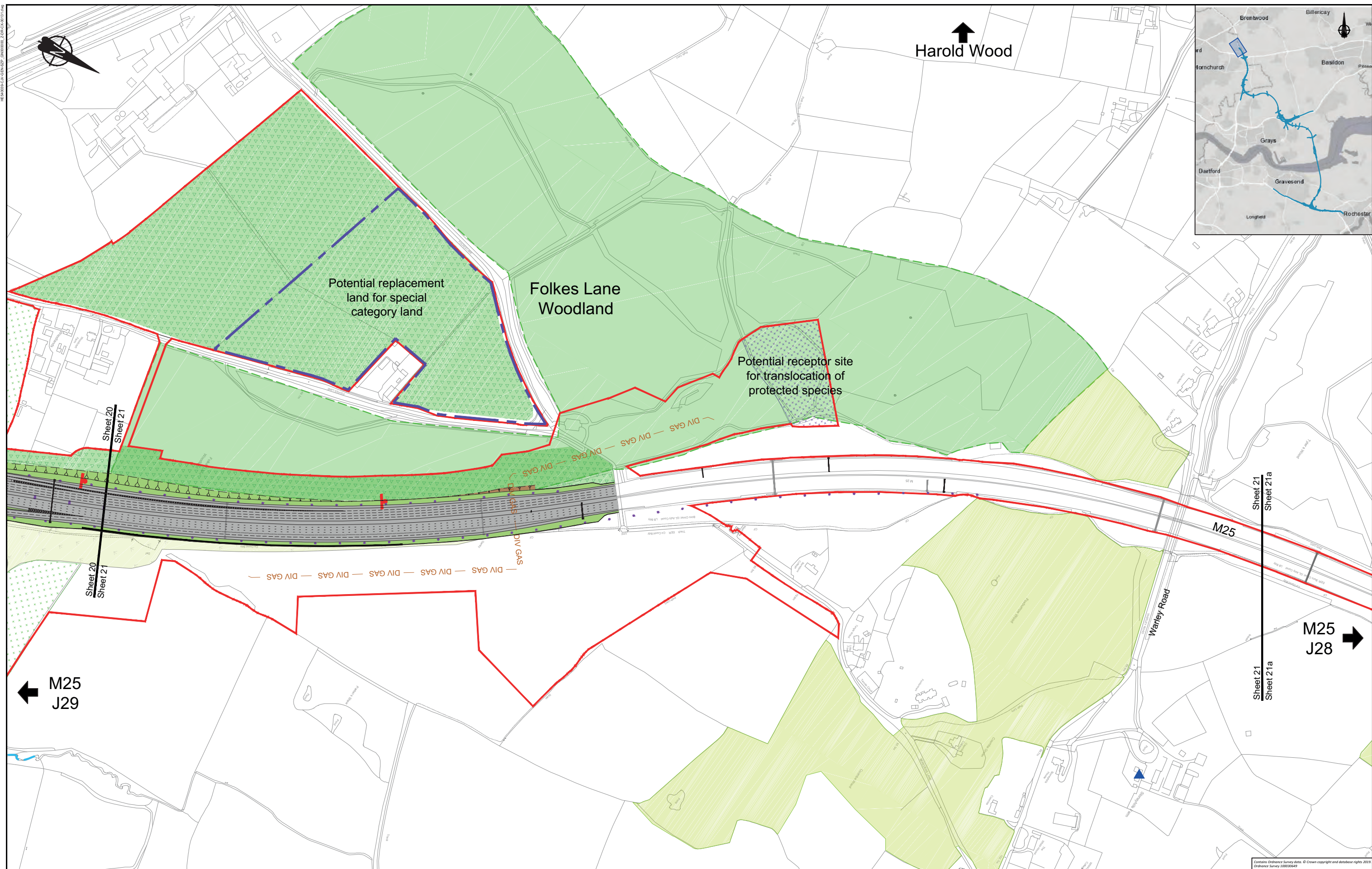
A127

Basildon



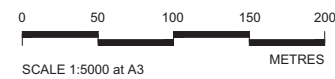
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	Drawing title GENERAL ARRANGEMENT PLAN SHEET 20a

**PROPOSALS FOR
CONSULTATION**



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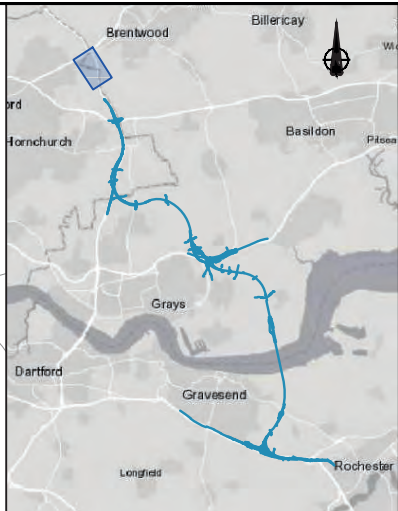
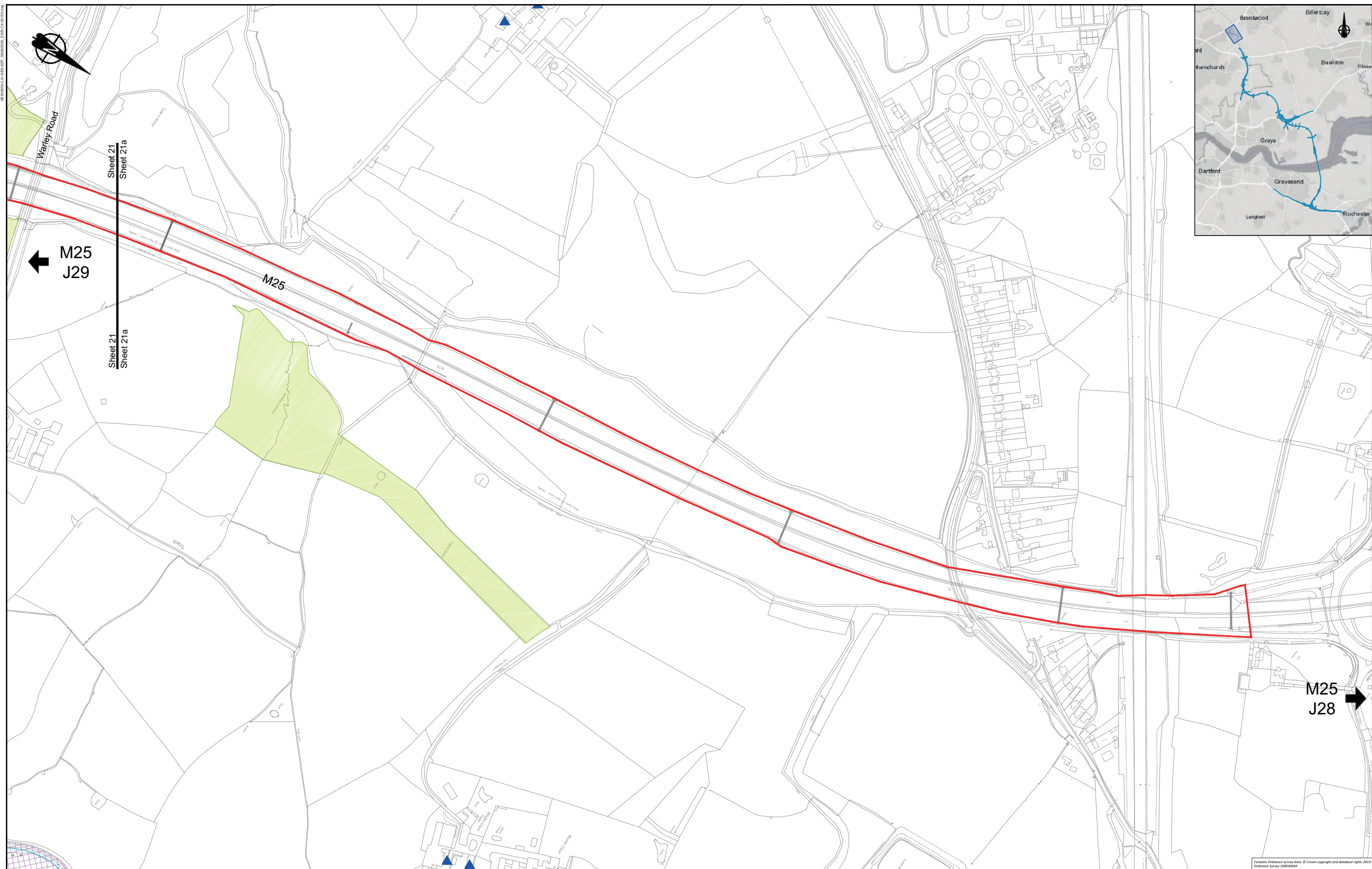


Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

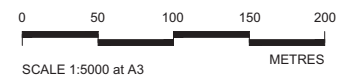
Project
LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 21**



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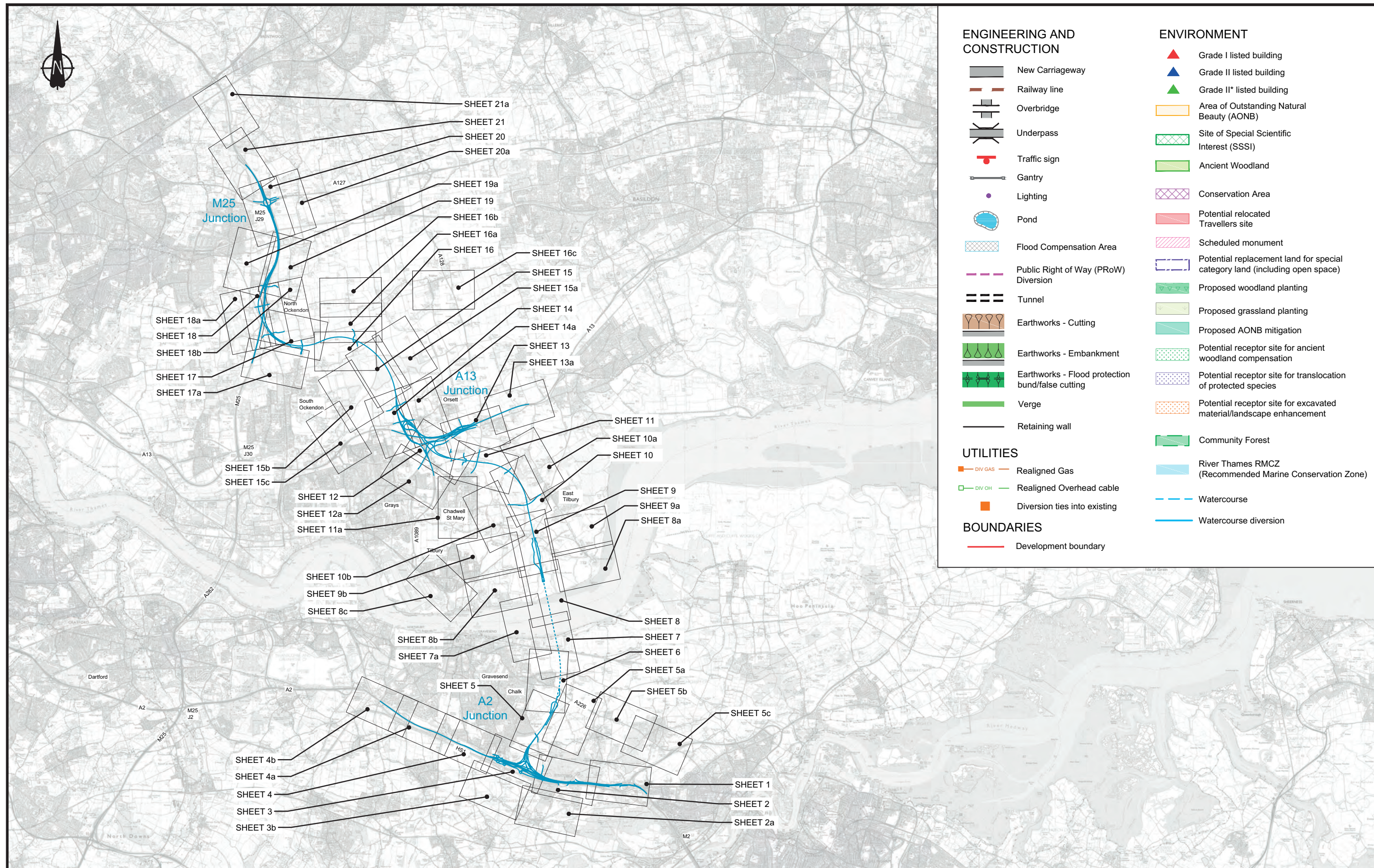
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
SUPPLEMENTARY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 21a



ENGINEERING AND CONSTRUCTION	ENVIRONMENT
New Carriageway	Grade I listed building
Railway line	Grade II listed building
Overbridge	Grade II* listed building
Underpass	Area of Outstanding Natural Beauty (AONB)
Traffic sign	Site of Special Scientific Interest (SSSI)
Gantry	Ancient Woodland
Lighting	Conservation Area
Pond	Potential relocated Travellers site
Flood Compensation Area	Scheduled monument
Public Right of Way (PRoW) Diversion	Potential replacement land for special category land (including open space)
Tunnel	Proposed woodland planting
Earthworks - Cutting	Proposed grassland planting
Earthworks - Embankment	Proposed AONB mitigation
Earthworks - Flood protection bund/false cutting	Potential receptor site for ancient woodland compensation
Verge	Potential receptor site for translocation of protected species
Retaining wall	Potential receptor site for excavated material/landscape enhancement
UTILITIES	Community Forest
Realigned Gas	River Thames RMCZ (Recommended Marine Conservation Zone)
Realigned Overhead cable	Watercourse
Diversion ties into existing	Watercourse diversion
BOUNDARIES	
Development boundary	

LEGEND:
 LTC route above ground
 LTC route in tunnel

	Client	Project	LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	PROPOSALS FOR CONSULTATION		Drawing title

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