

Lower Thames Crossing
Map book 1: General Arrangements

Lower Thames Crossing map books

The three map books for the design refinement 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 supplementary consultation earlier this year and are published for the purposes of this consultation on the project. Following this consultation, we will consider the feedback received and use that to inform our DCO application, which we will submit to the Planning Inspectorate later this year.

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 layout details of the project including:

- Permanent works; new roads, earthworks and roadside features
- Construction compounds
- Environment mitigation; landscaping and tree planting
- 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 for the route of the road, to re-connect 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

The drawings showing the change at Thong Lane over the LTC are plan and profile sheets 3A and 5. These plans 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.

This map book also contains updated existing ground levels from chainage 5+500 to chainage 20+250 which were shown incorrectly in the supplementary consultation map book 3. The existing ground level figures were shown shifted north by 250 metres.

No other changes have been made to the plan and profile, junction arrangements or cross sections since that presented at supplementary consultation.

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.

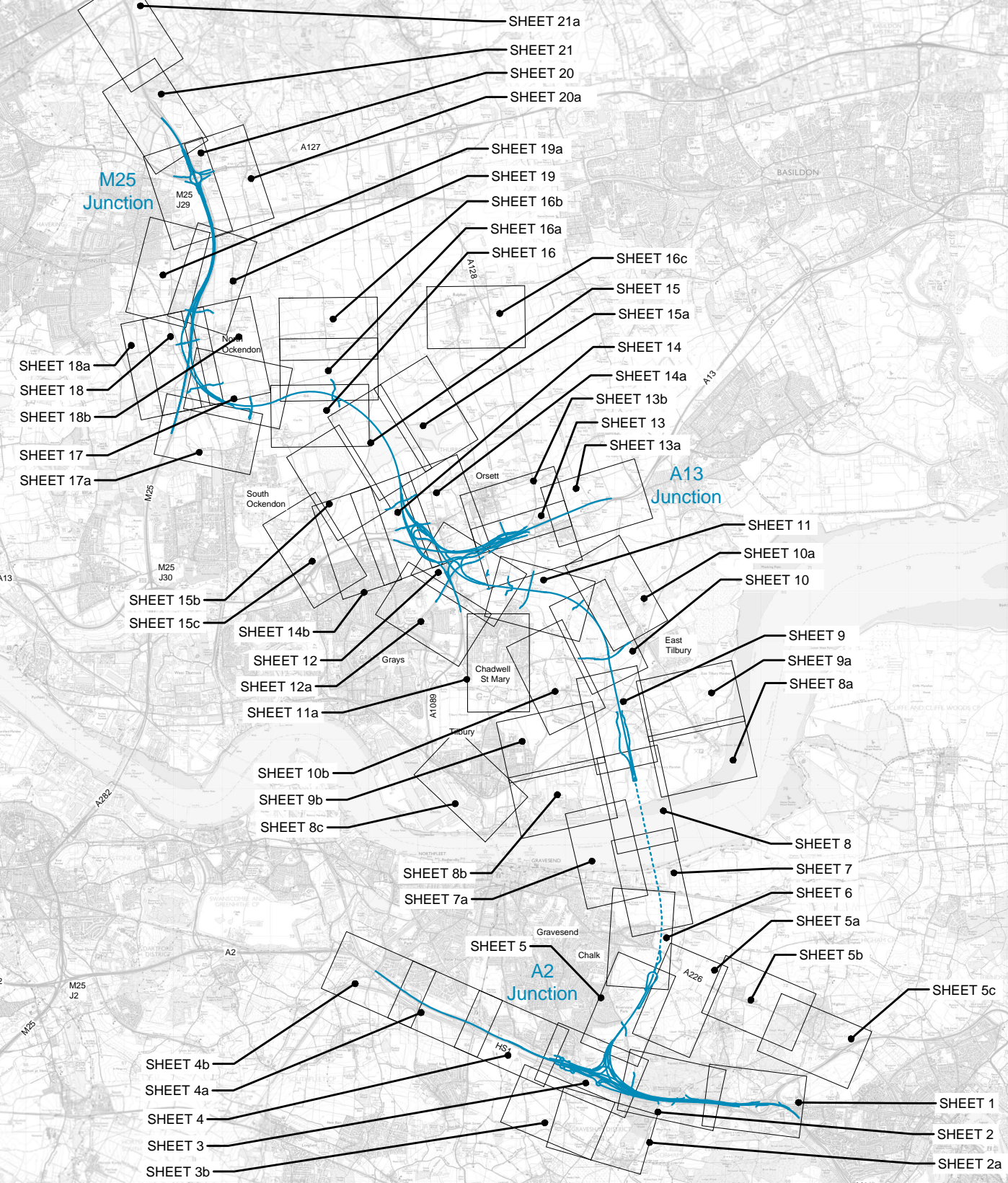
Large maps

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
- General Arrangements – 6 sheets (larger coverage)
- General Arrangement (full route) – 1 sheet
- Aerial view of the proposed LTC route – 1 sheet

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ENGINEERING AND CONSTRUCTION

- New Carriageway
- Railway line
- Overbridge
- Underpass
- Traffic sign
- Gantry
- Lighting
- Pond
- Footpath, Cycleway or Bridleway route
- Tunnel
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - Flood protection bund/false cutting
- Verge
- Retaining wall
- Maintenance access
- Realigned Gas
- Realigned or modified overhead cable
- Diversion ties into existing
- Gas or Electricity substation

UTILITIES

- Development boundary
- Registered park or garden
- Potential relocated Travellers site

EXISTING ENVIRONMENTAL FEATURES

- 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
- Scheduled monument
- Community Forest
- Watercourse

PROPOSED ENVIRONMENTAL MITIGATION

- Open space provision, replacement open space and replacement common land
- Proposed woodland planting
- Proposed grassland planting
- Potential receptor site for ancient woodland compensation
- Potential receptor site for translocation of protected species
- Ecology protection measures
- Flood Compensation Area
- Hedgerow
- Watercourse diversion

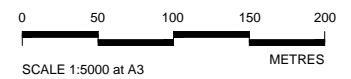
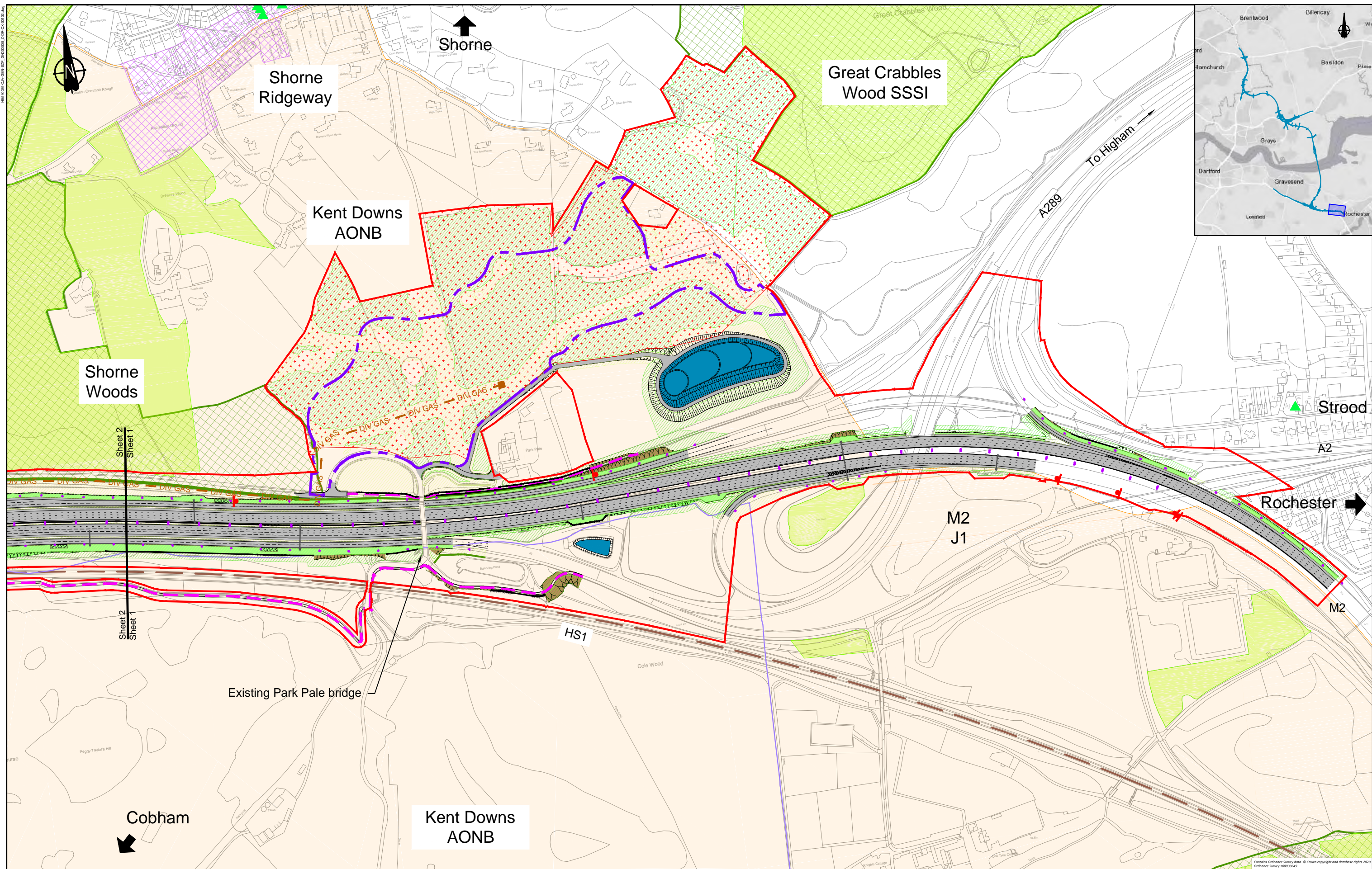
LEGEND:
 LTC route above ground
 LTC route in tunnel

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Project LOWER THAMES CROSSING
 DESIGN REFINEMENT CONSULTATION

Drawing title
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 KEY PLAN AND LEGEND**

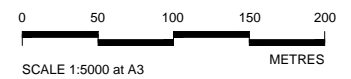
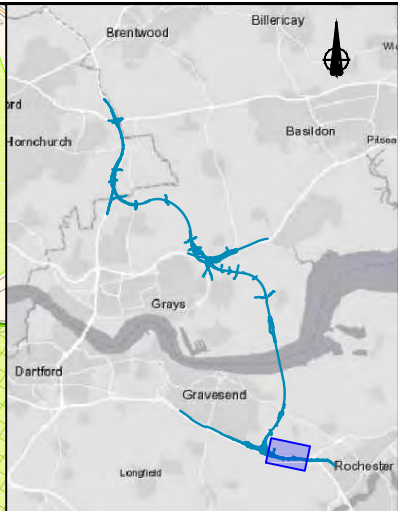
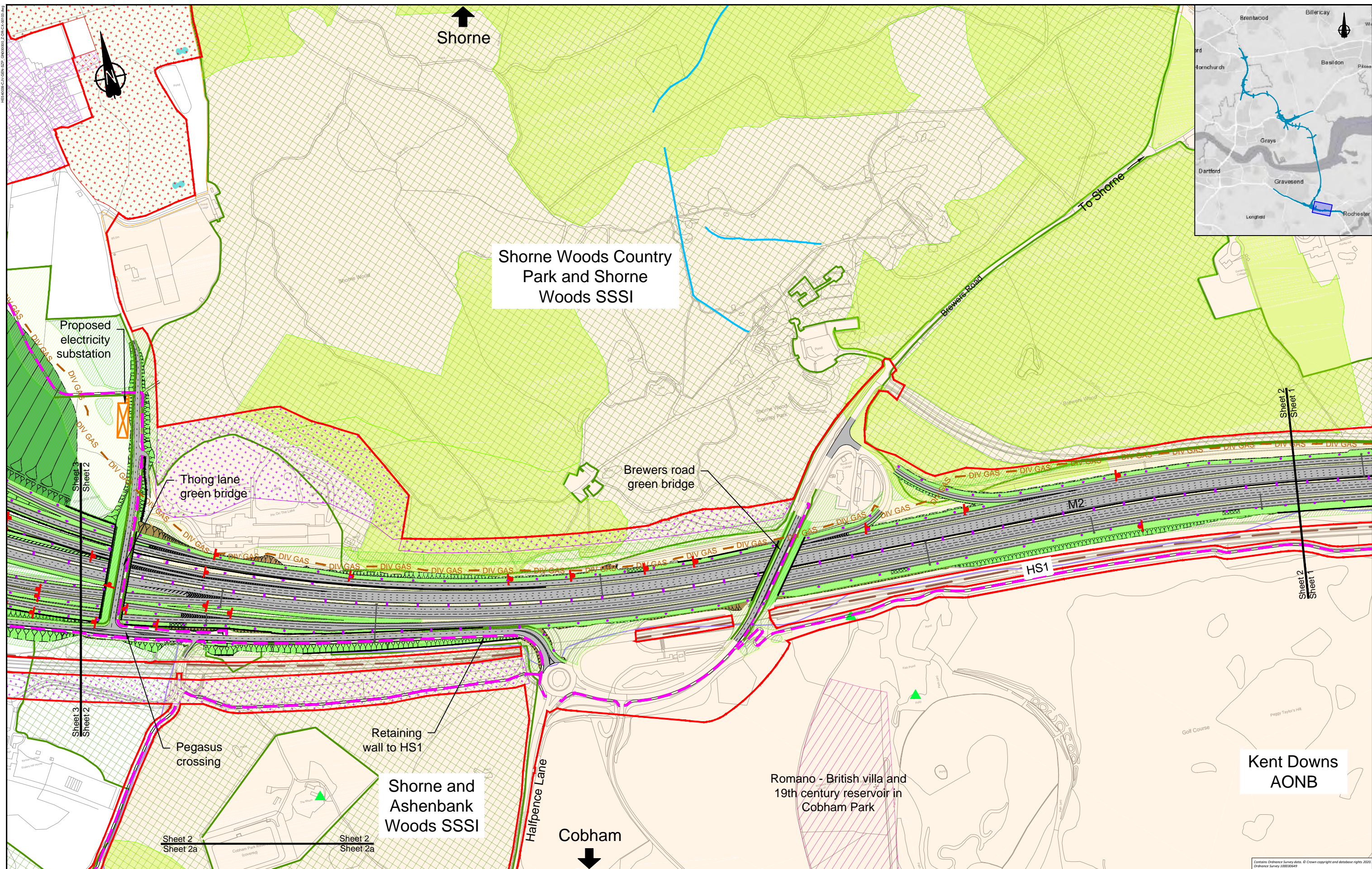


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Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 1



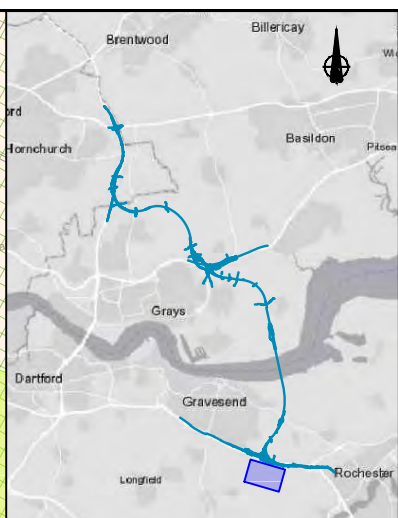
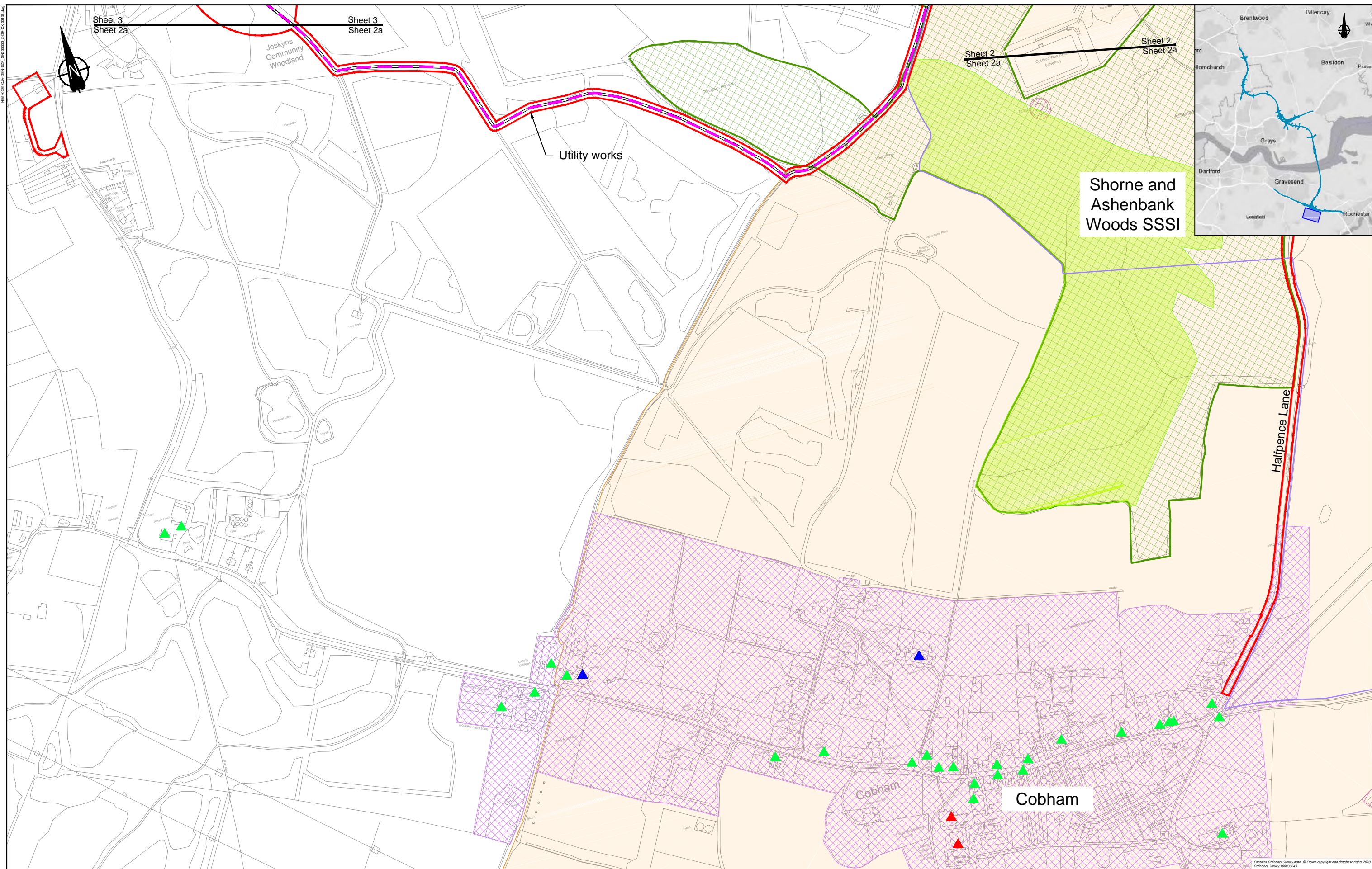
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DESIGN REFINEMENT CONSULTATION

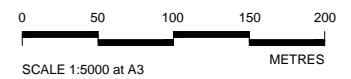
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SHEET 2

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Shorne and Ashenbank Woods SSSI

Cobham

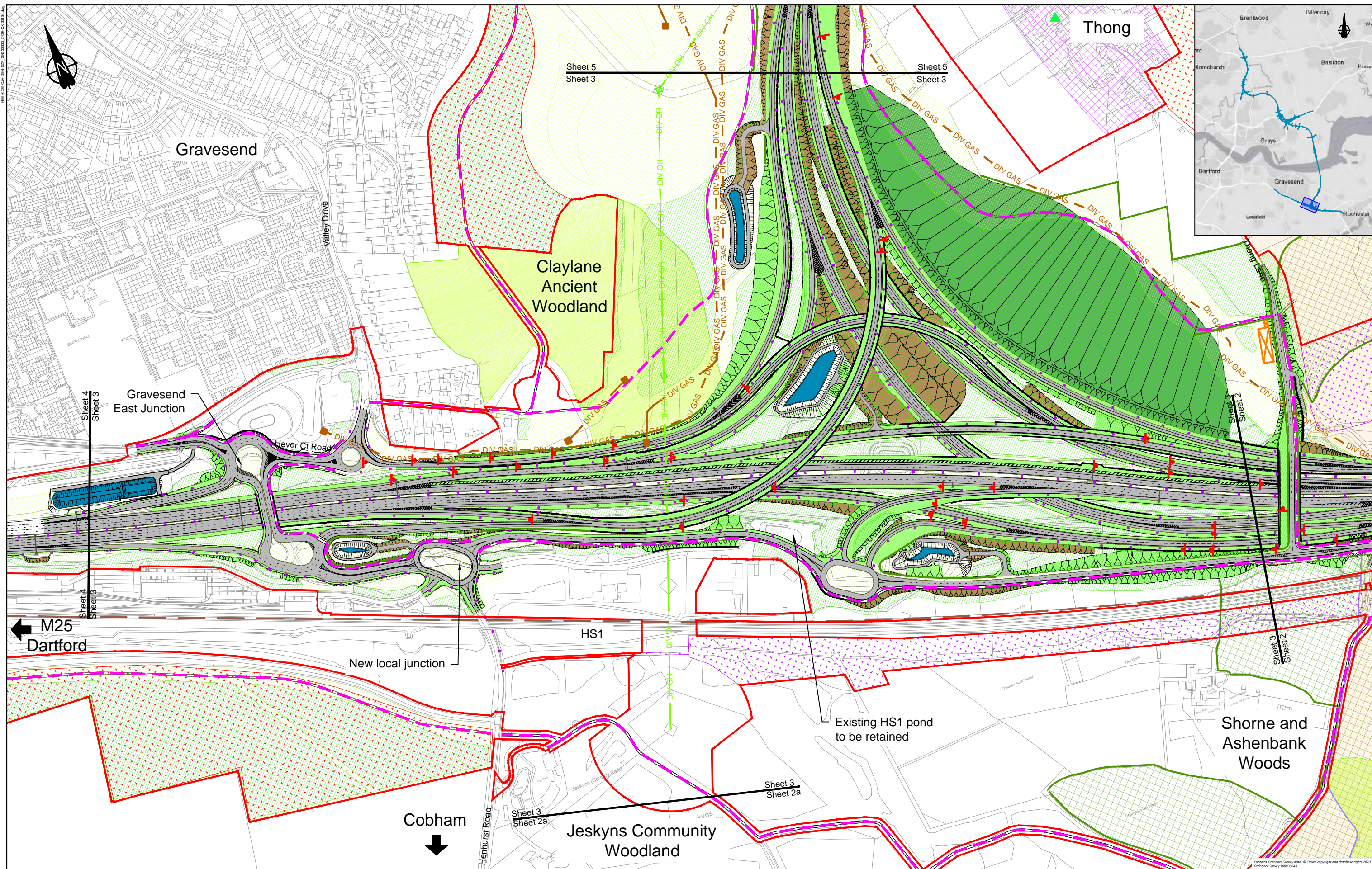


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GENERAL ARRANGEMENT PLAN
 SHEET 2a

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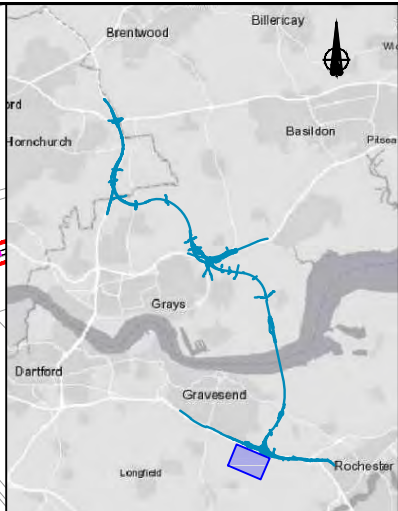
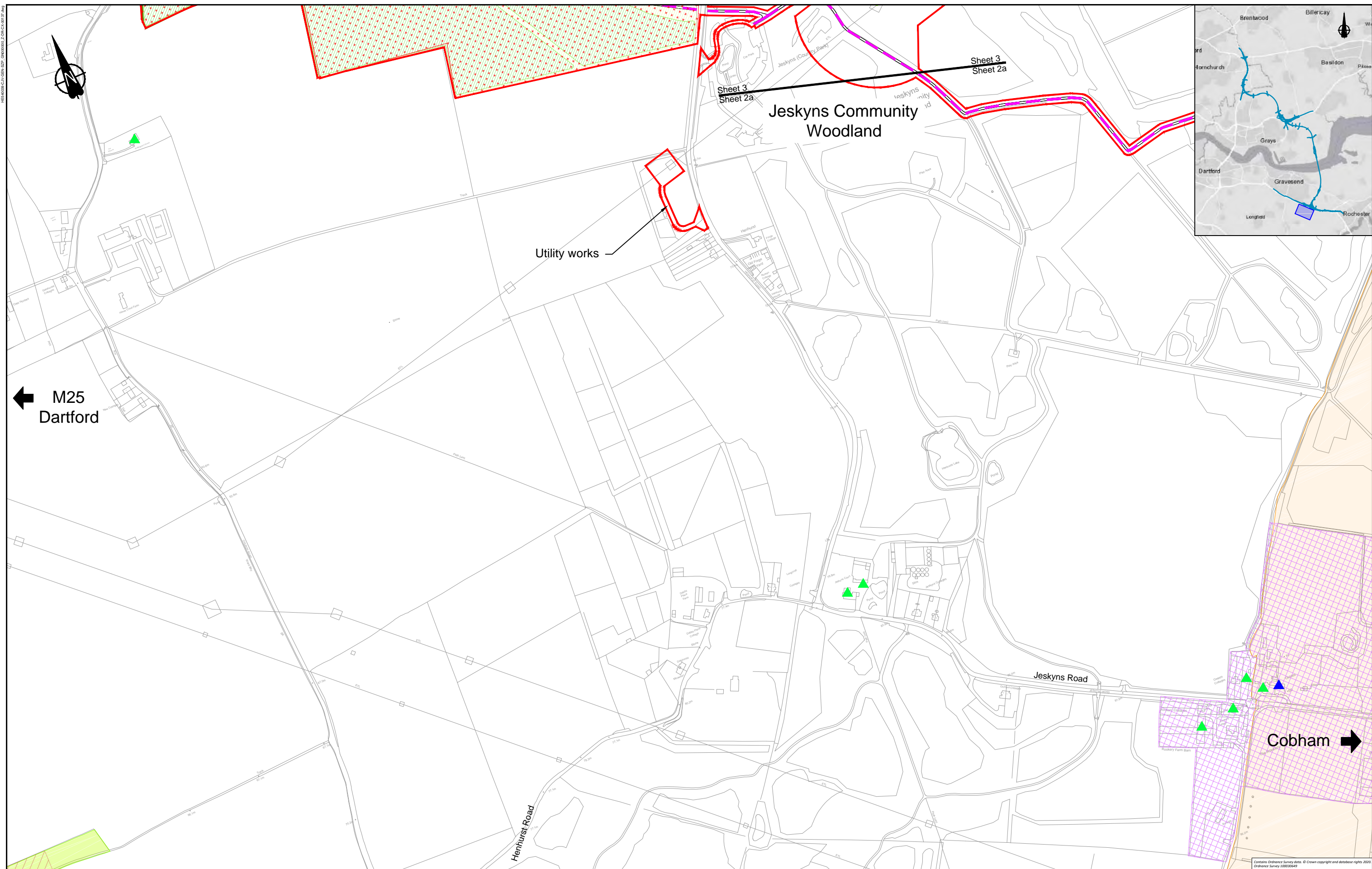
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Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 3**



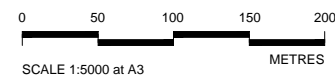
← M25
Dartford

Utility works

Jeskyns Community
Woodland

Jeskyns Road

Cobham →

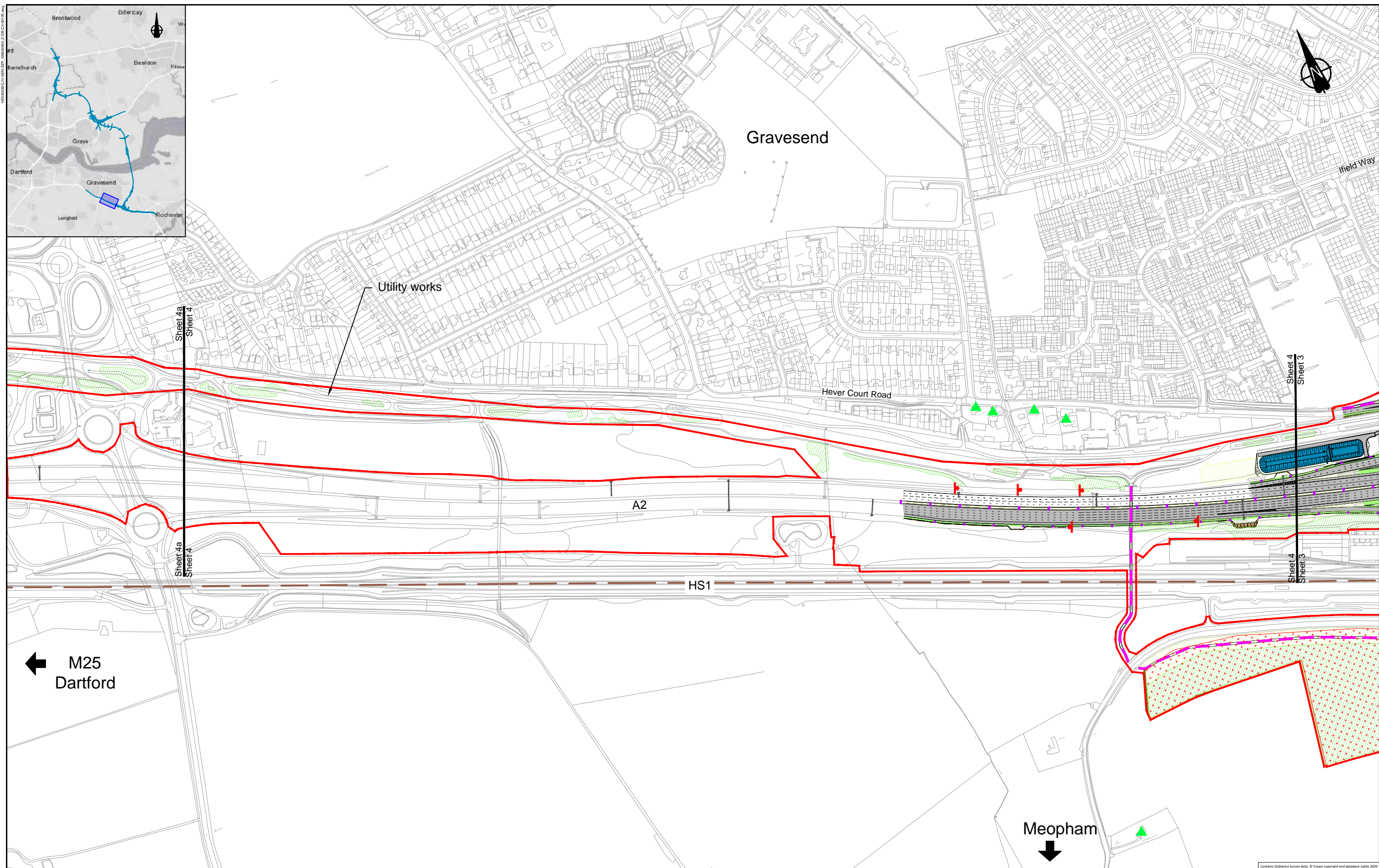
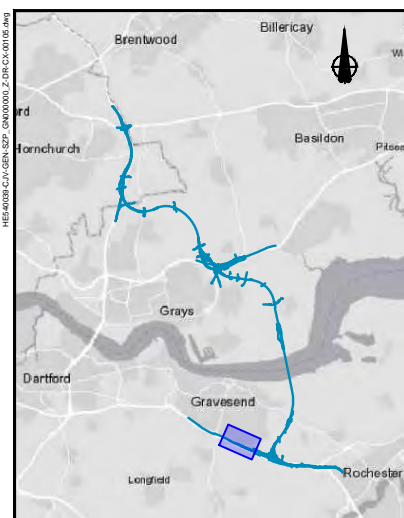


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SHEET 3b**


HEALTHY COUNTRIES CONSULTING

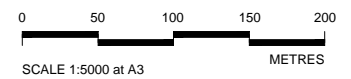
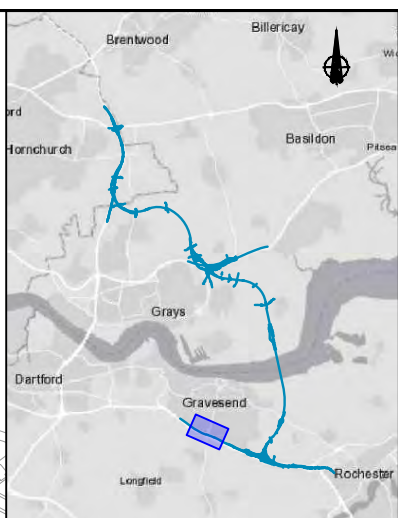
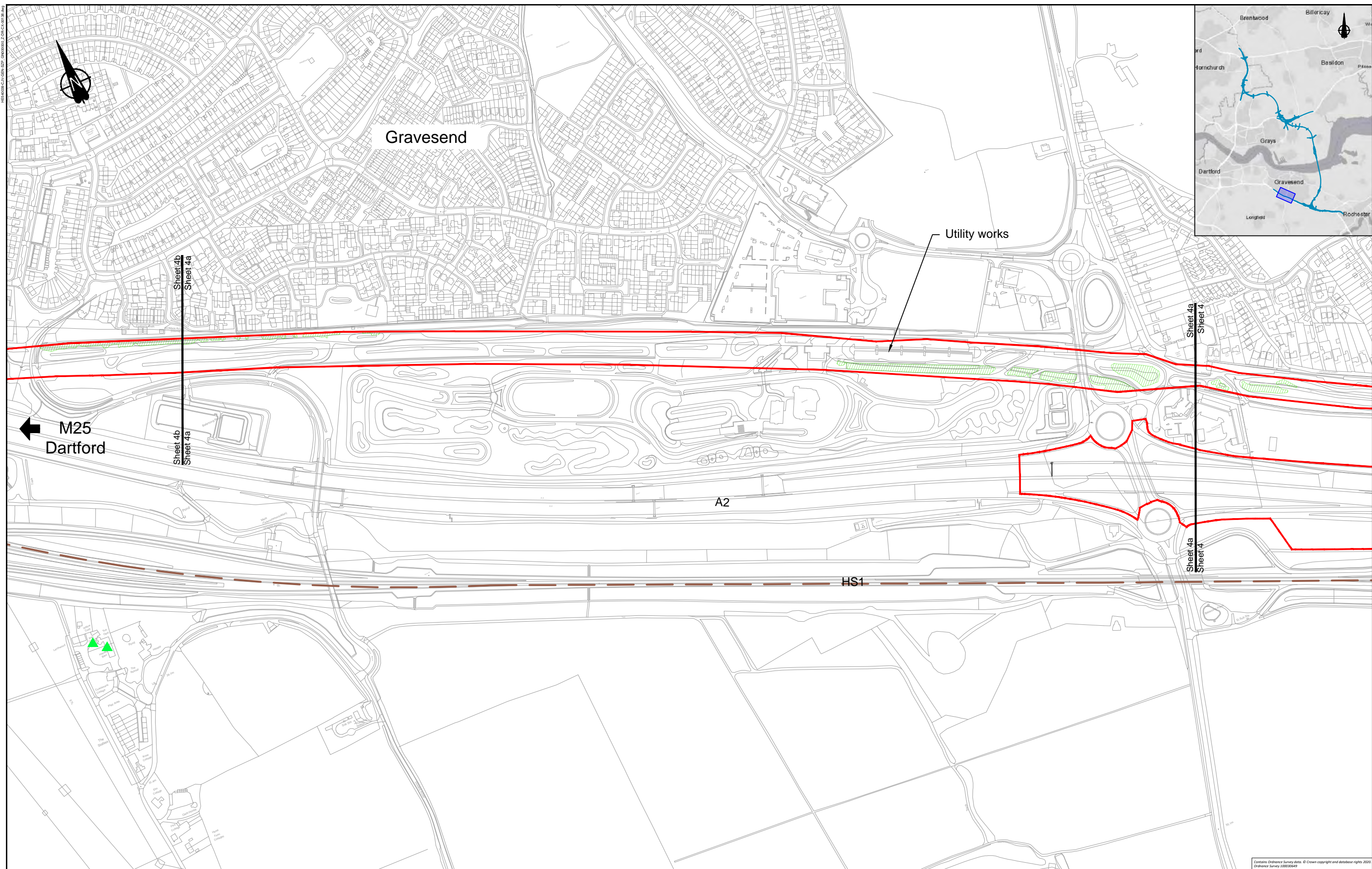
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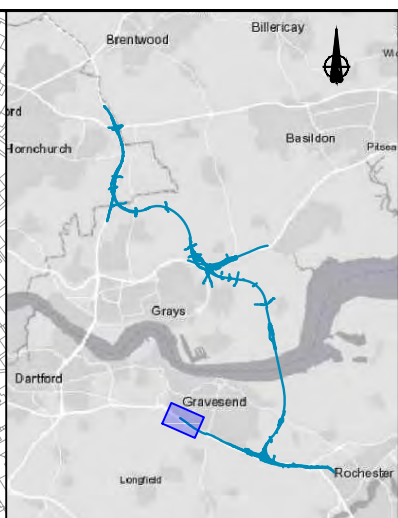
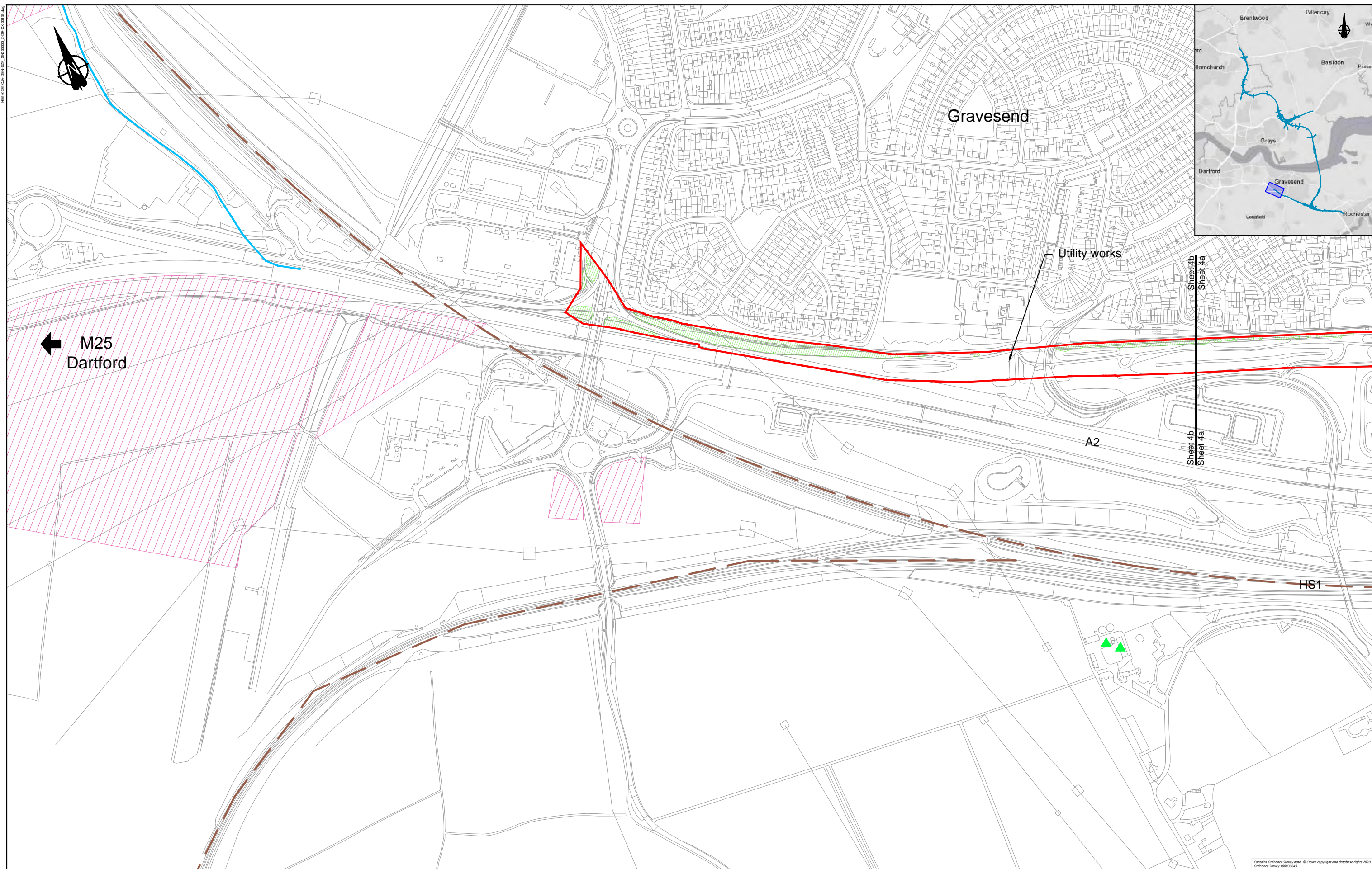
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**PROPOSALS FOR
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DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 4a

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

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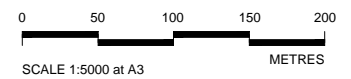
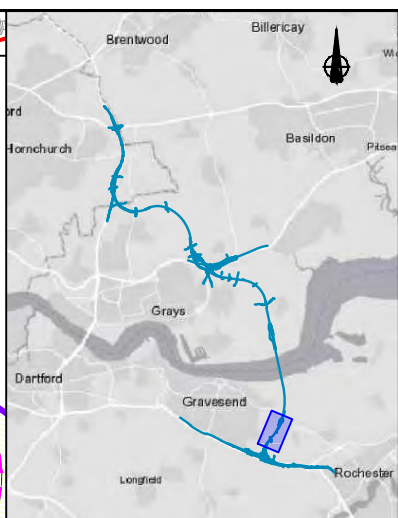
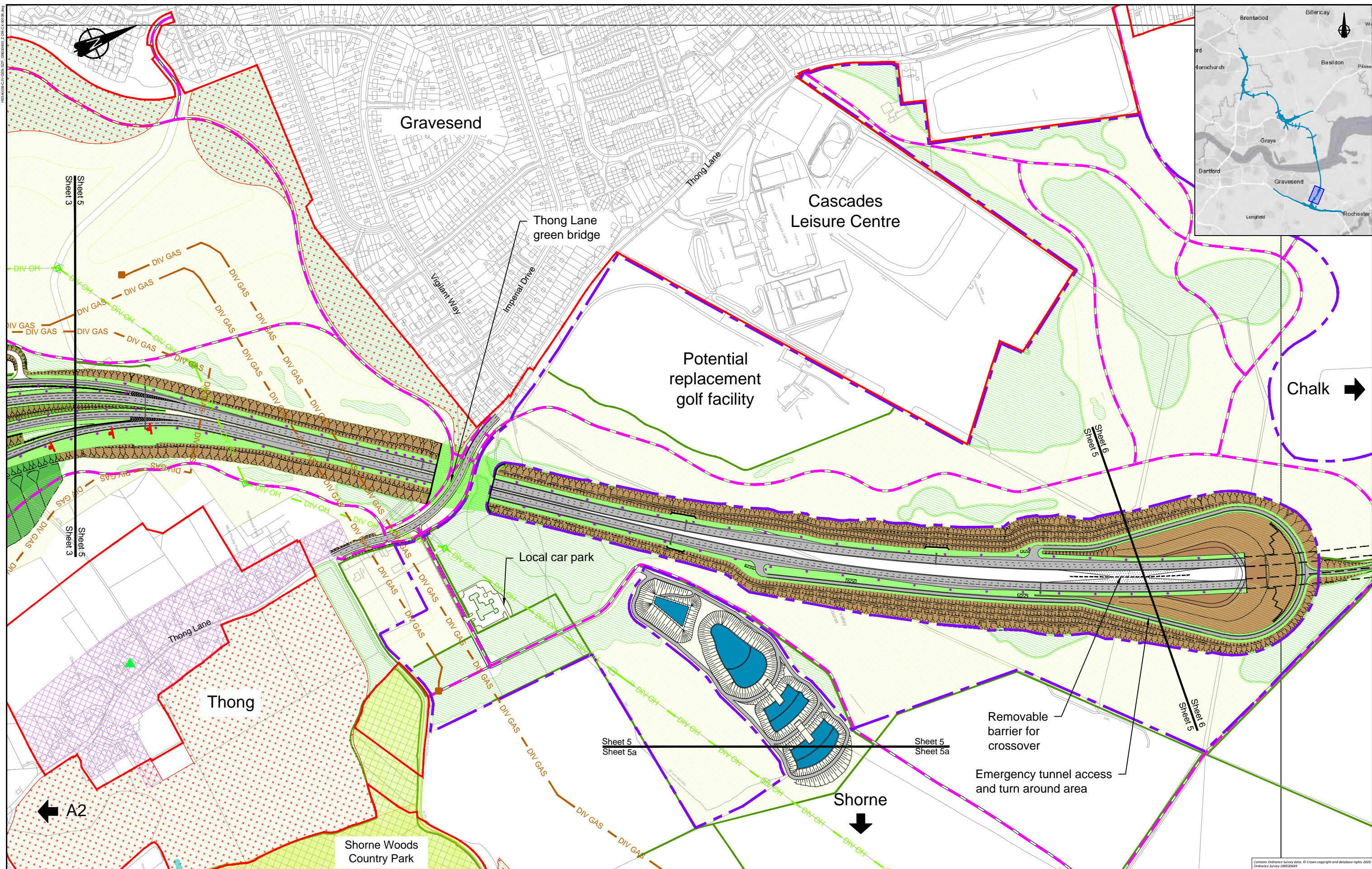


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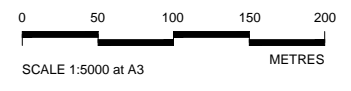
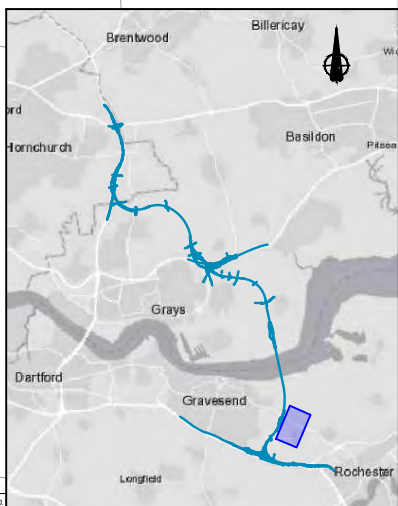
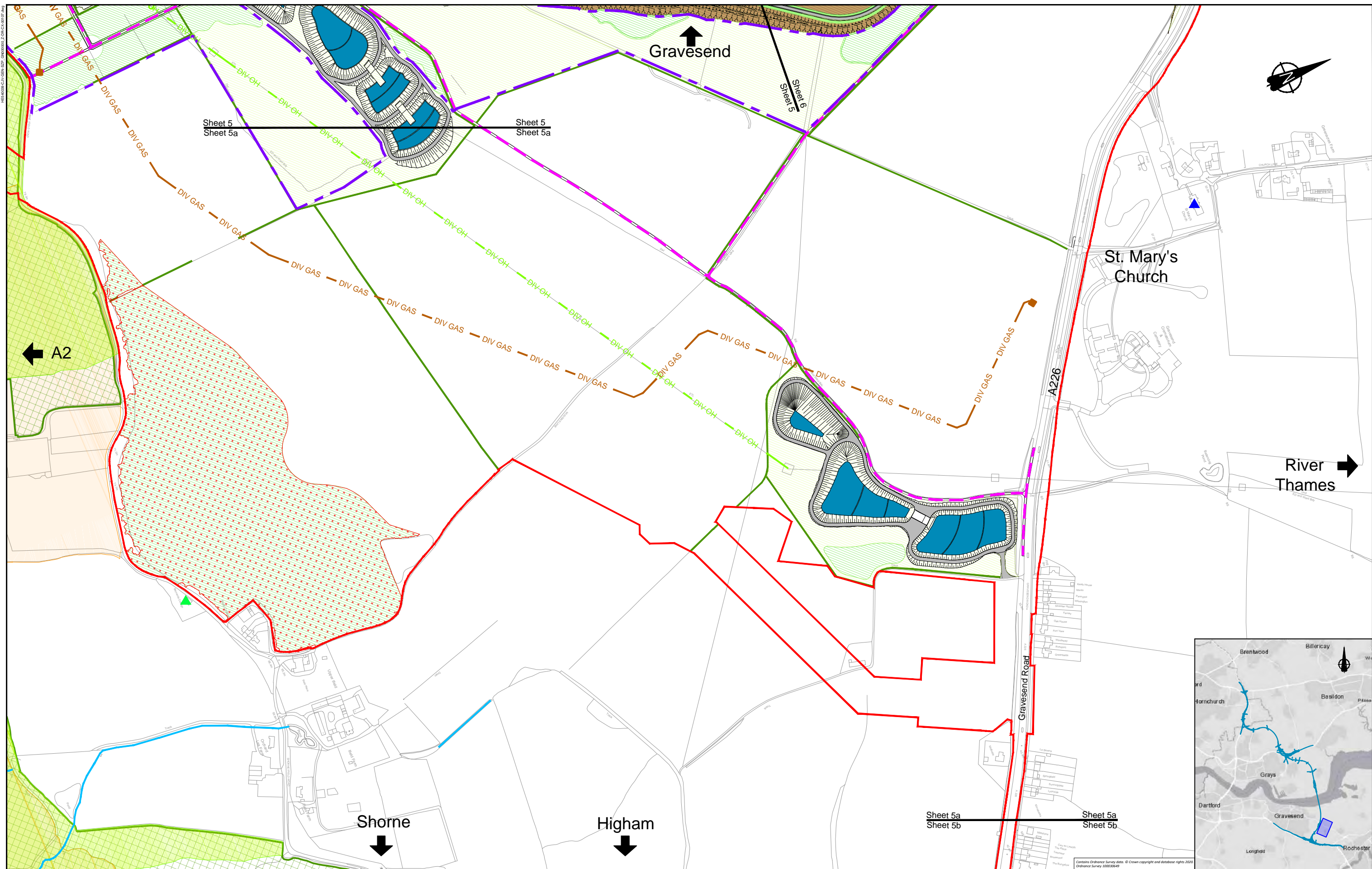
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SHEET 4b**



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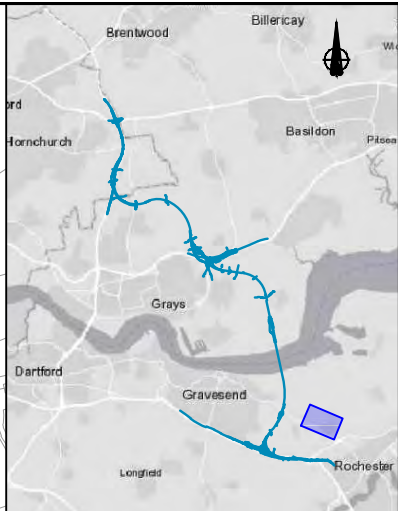
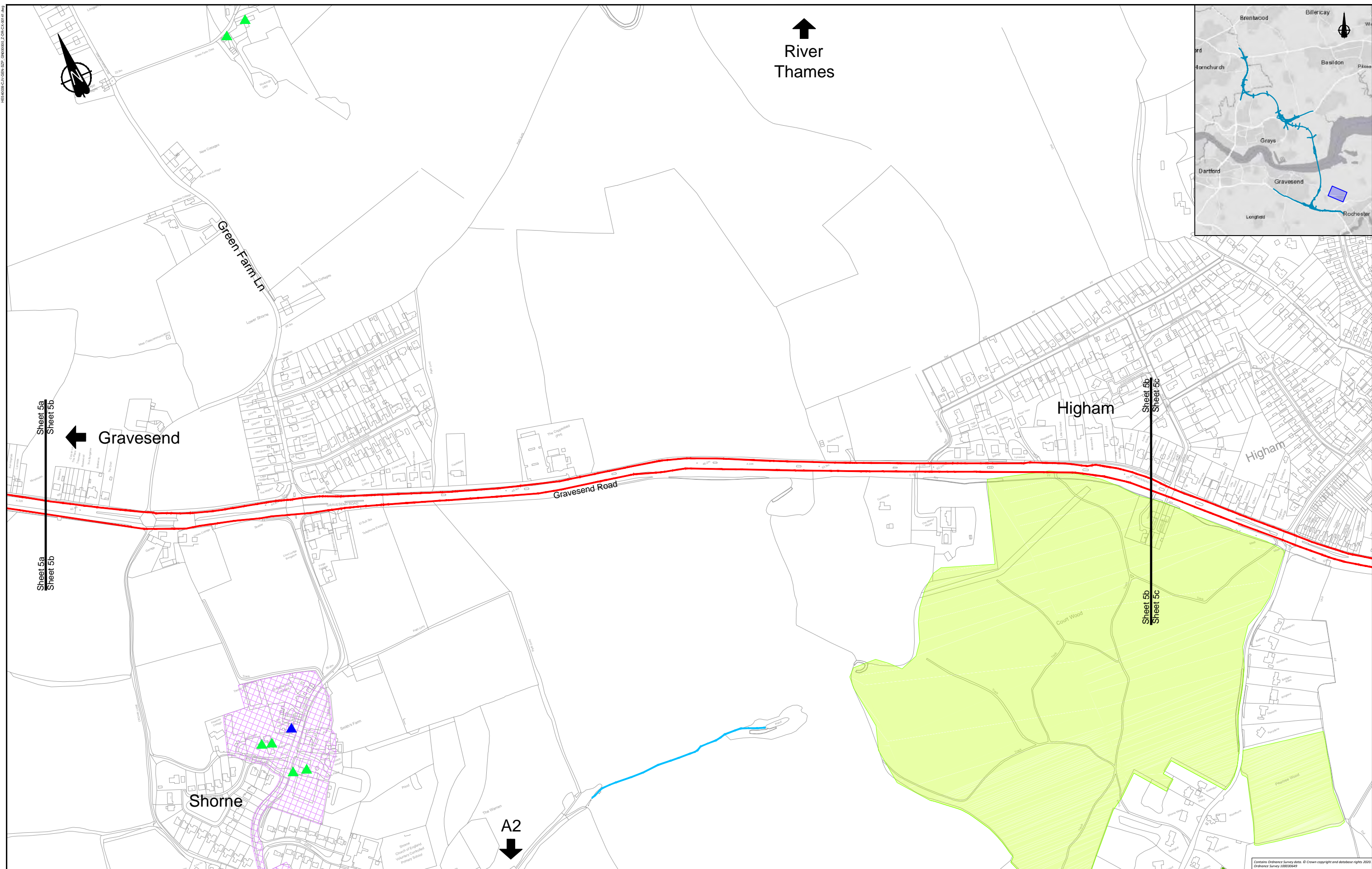
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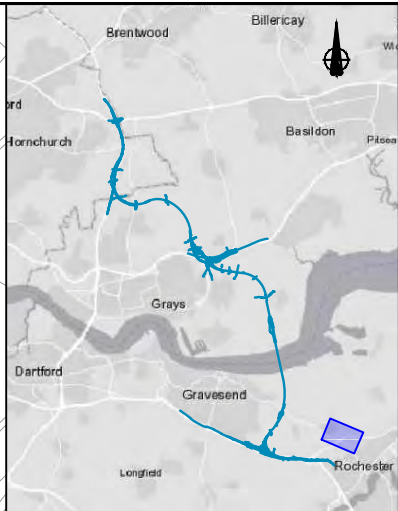
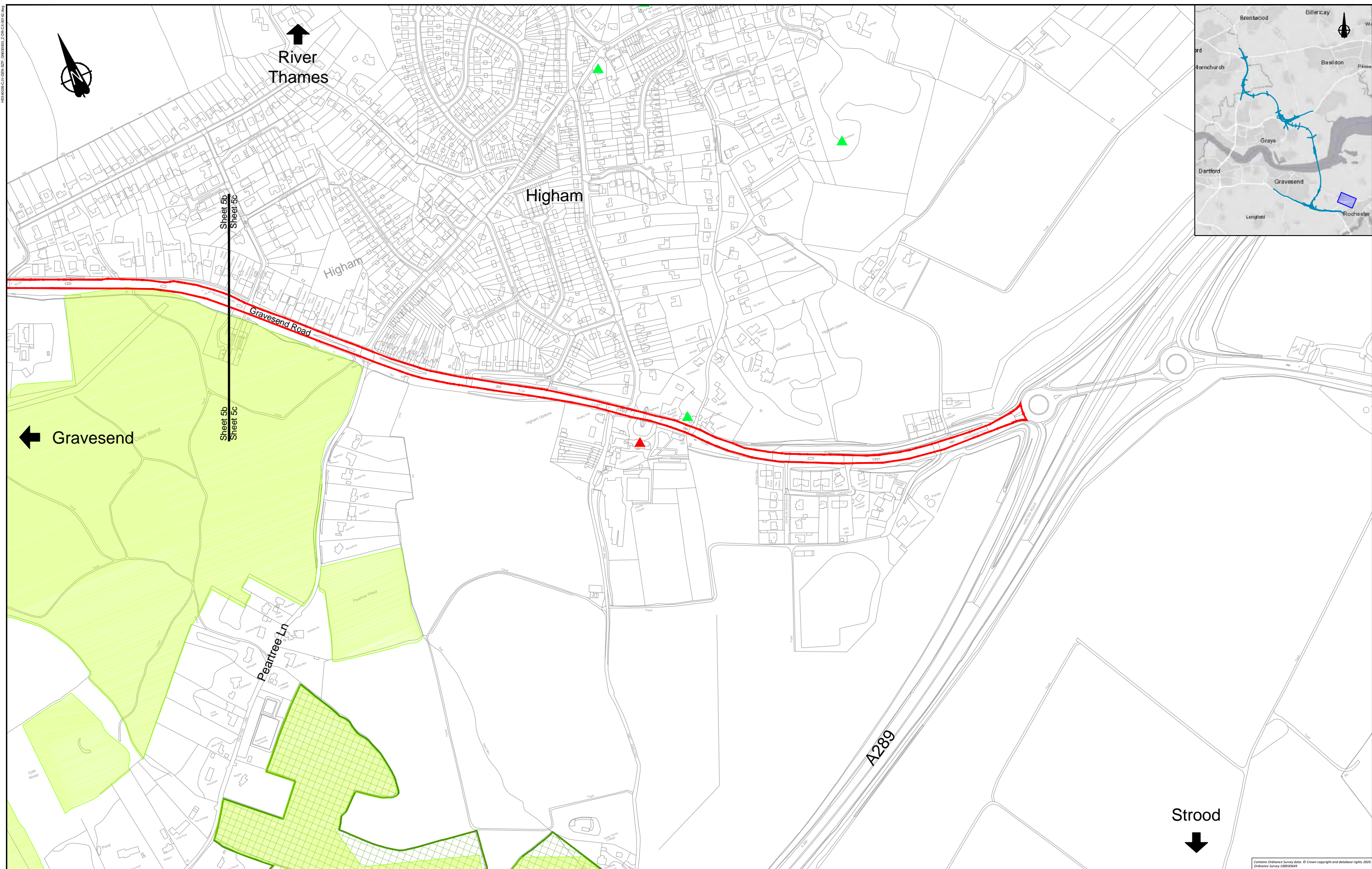
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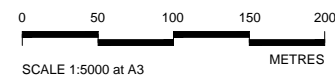
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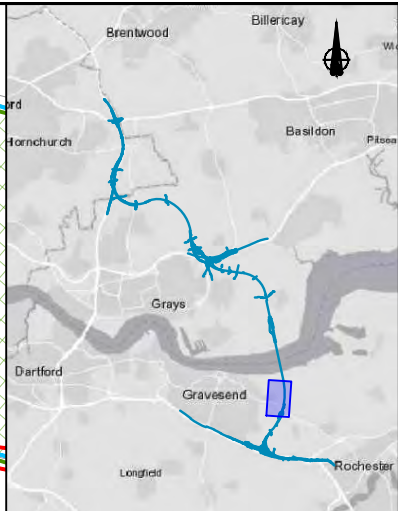
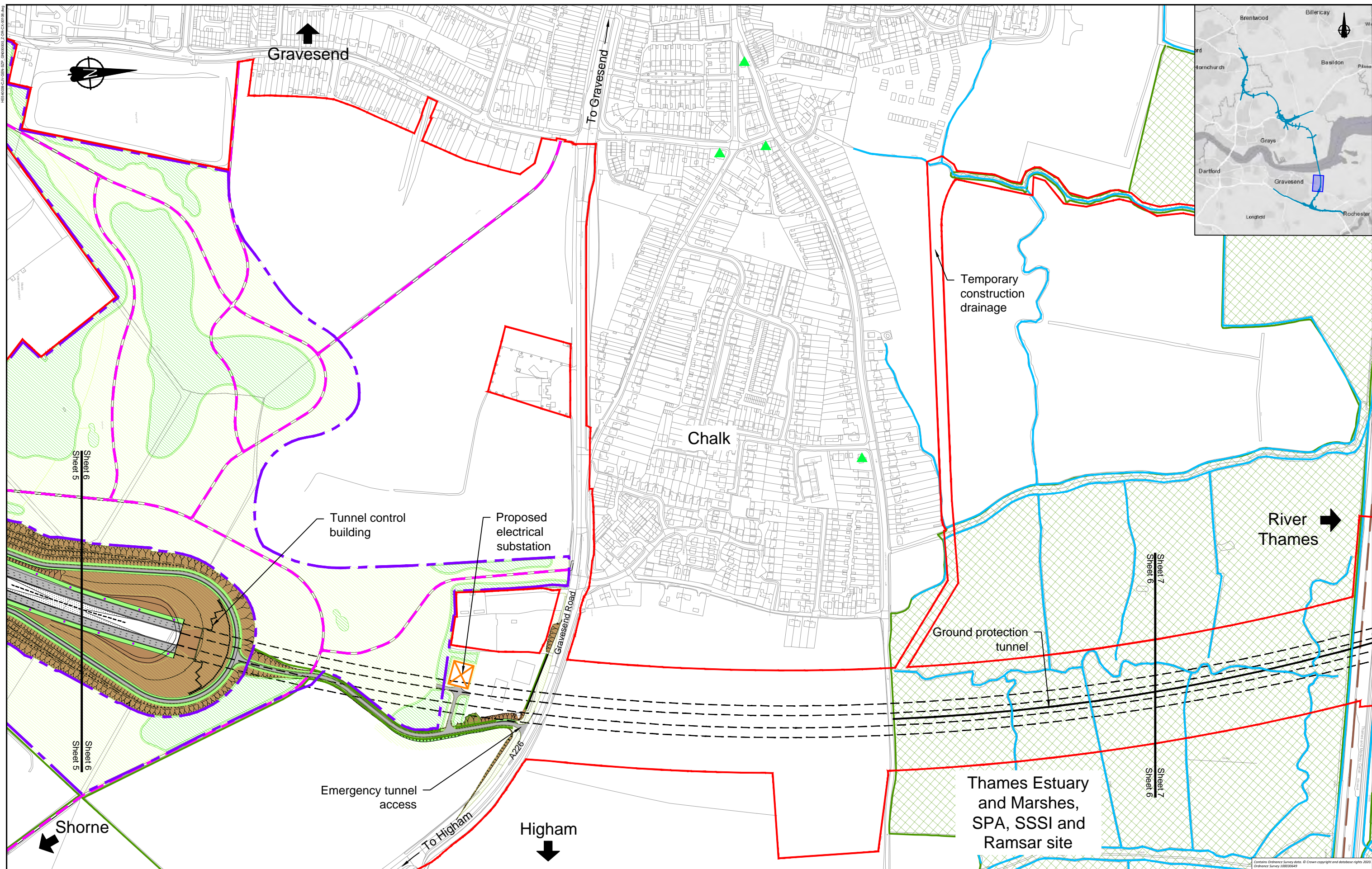


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**PROPOSALS FOR
CONSULTATION**



Gravesend

Chalk

River Thames

Tunnel control building

Proposed electrical substation

Ground protection tunnel

Emergency tunnel access

Thames Estuary and Marshes, SPA, SSSI and Ramsar site

Sheet 6
Sheet 5

Sheet 7
Sheet 6

Sheet 7
Sheet 6

Shorne

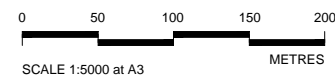
Higham

To Gravesend

To Higham

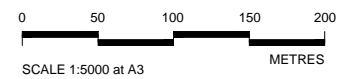
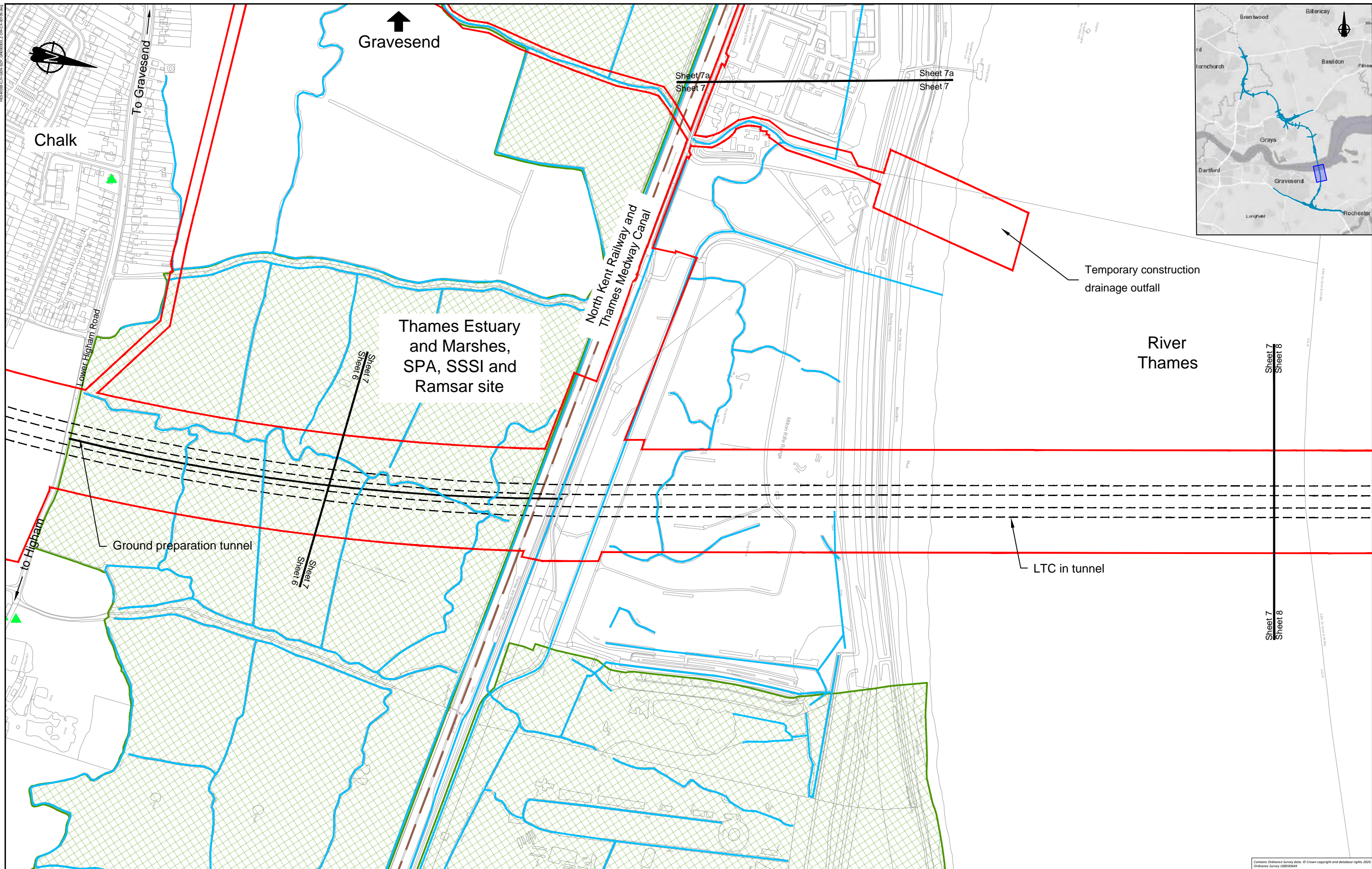
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A226

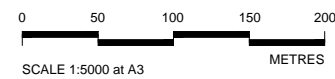
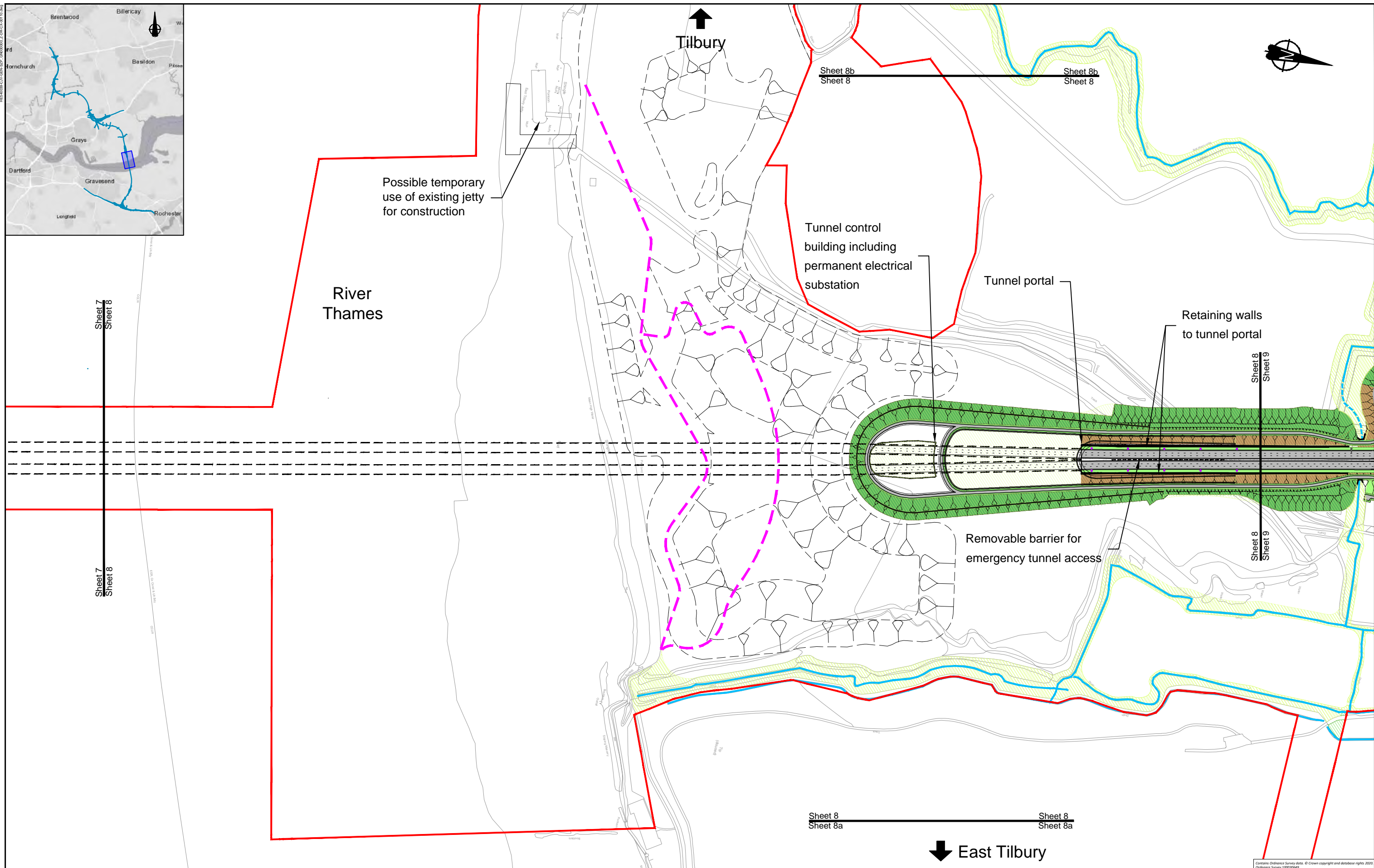
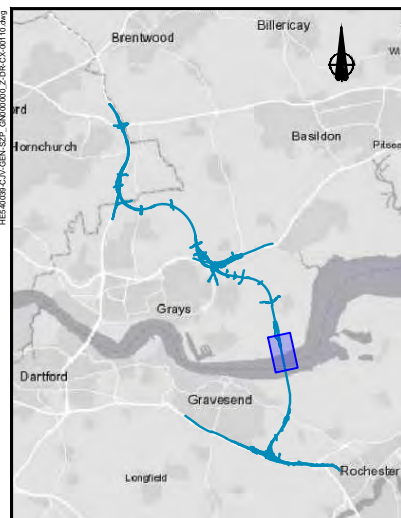


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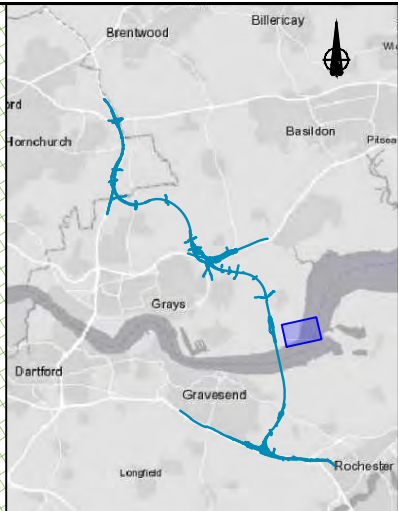
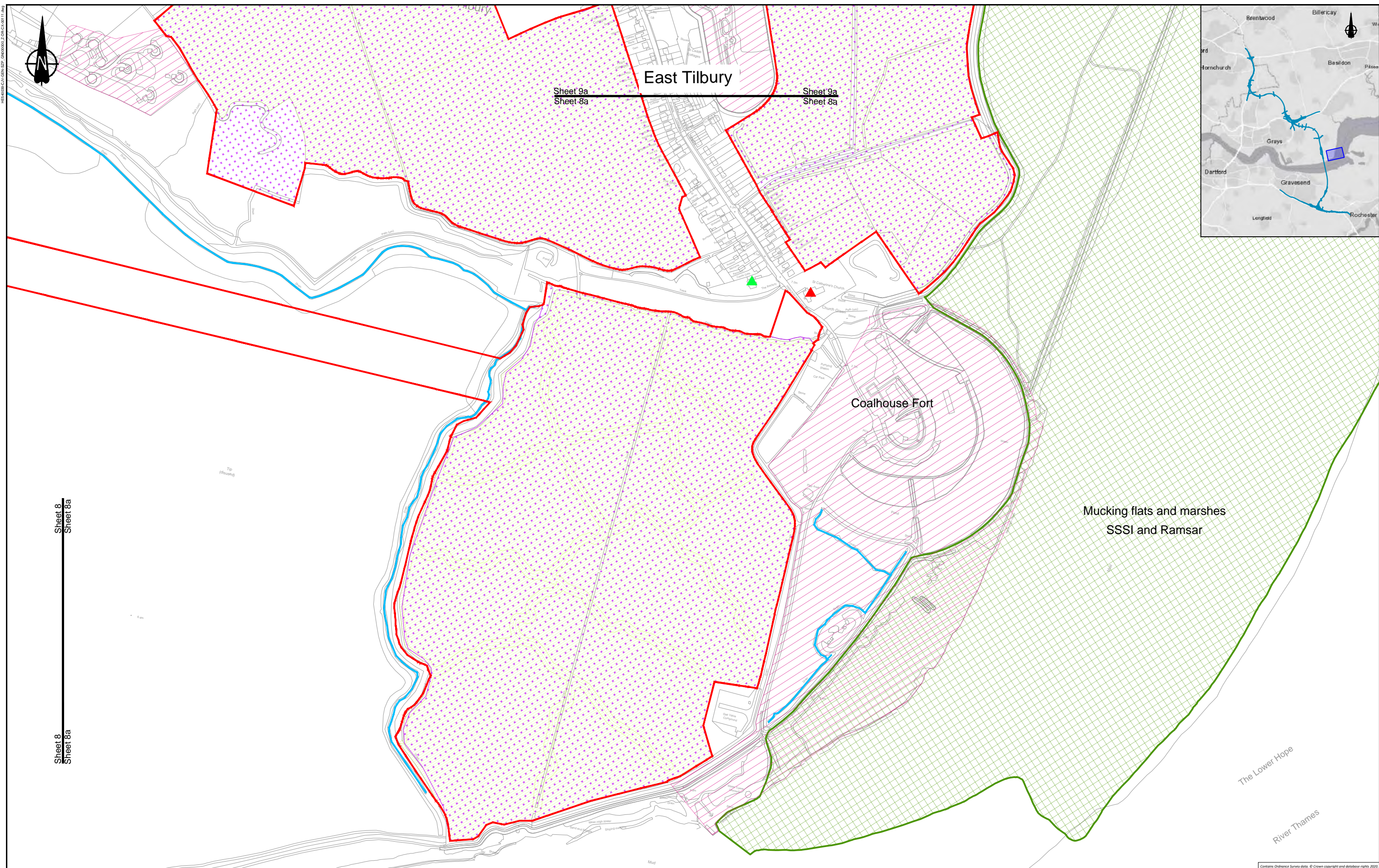
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GENERAL ARRANGEMENT PLAN
SHEET 8

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Sheet 9a
Sheet 8a

Sheet 9a
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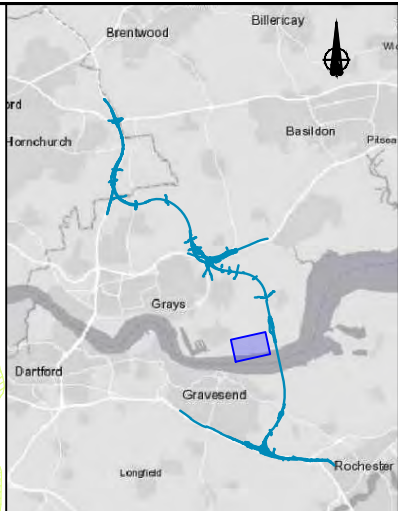
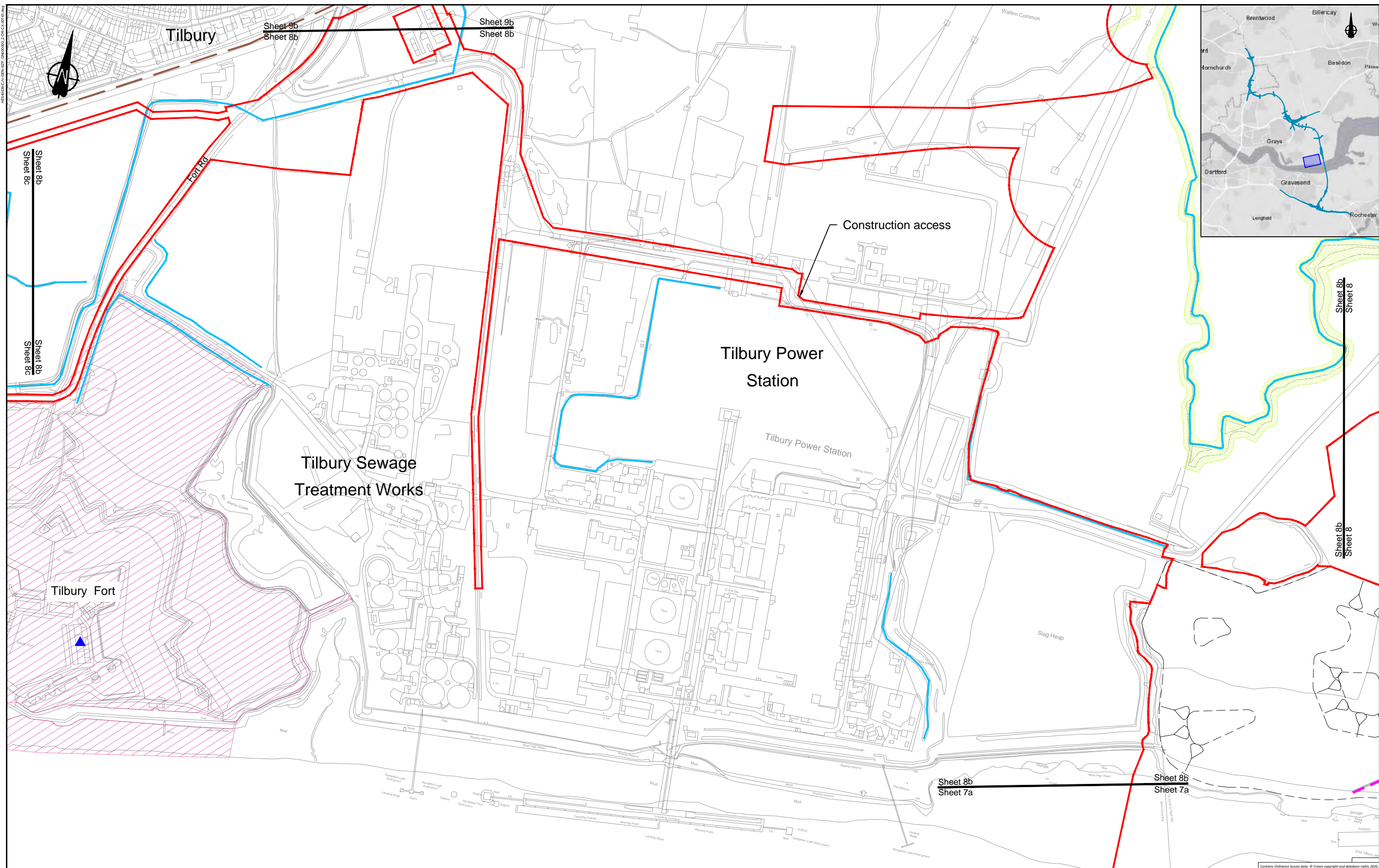
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PROPOSALS FOR CONSULTATION



Sheet 8b
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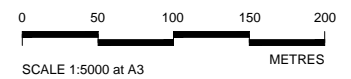
Sheet 8b
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Sheet 9b
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Sheet 7a

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Sheet 7a



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PROPOSALS FOR CONSULTATION

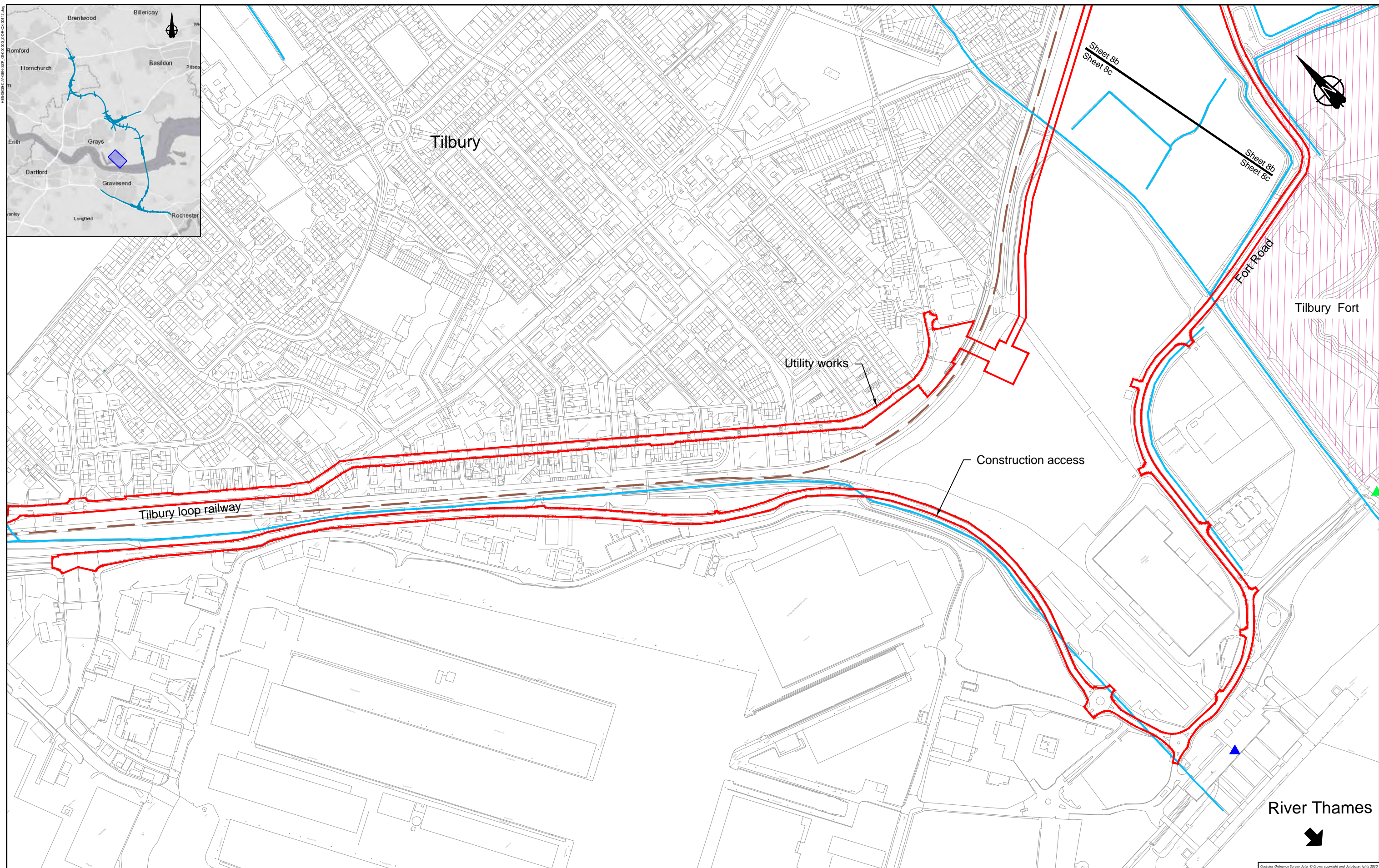
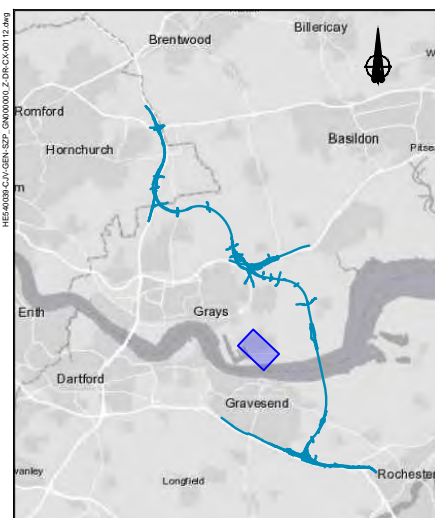
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DESIGN REFINEMENT CONSULTATION**

Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 8b**

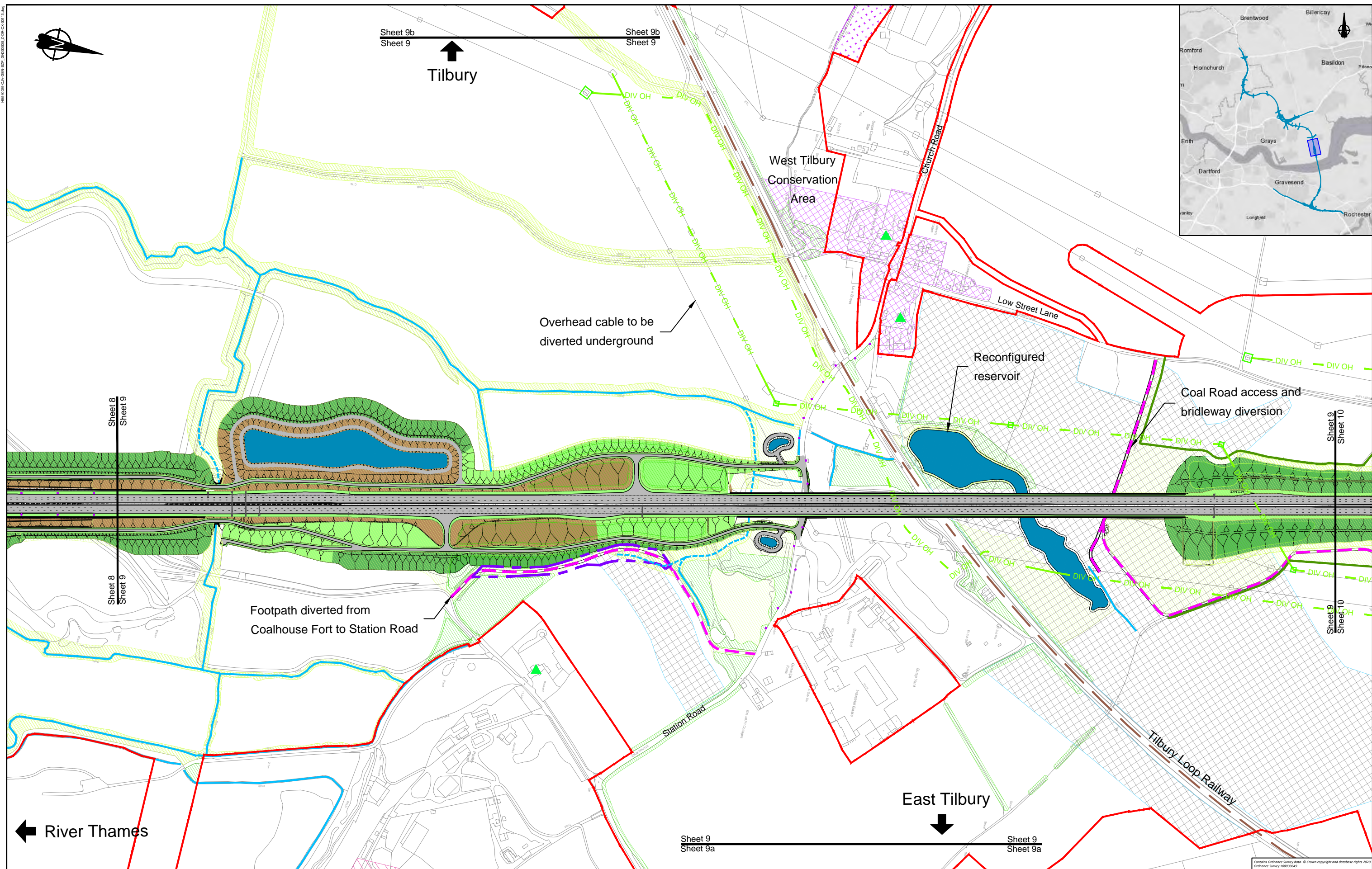
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| | SHEET 8c | |

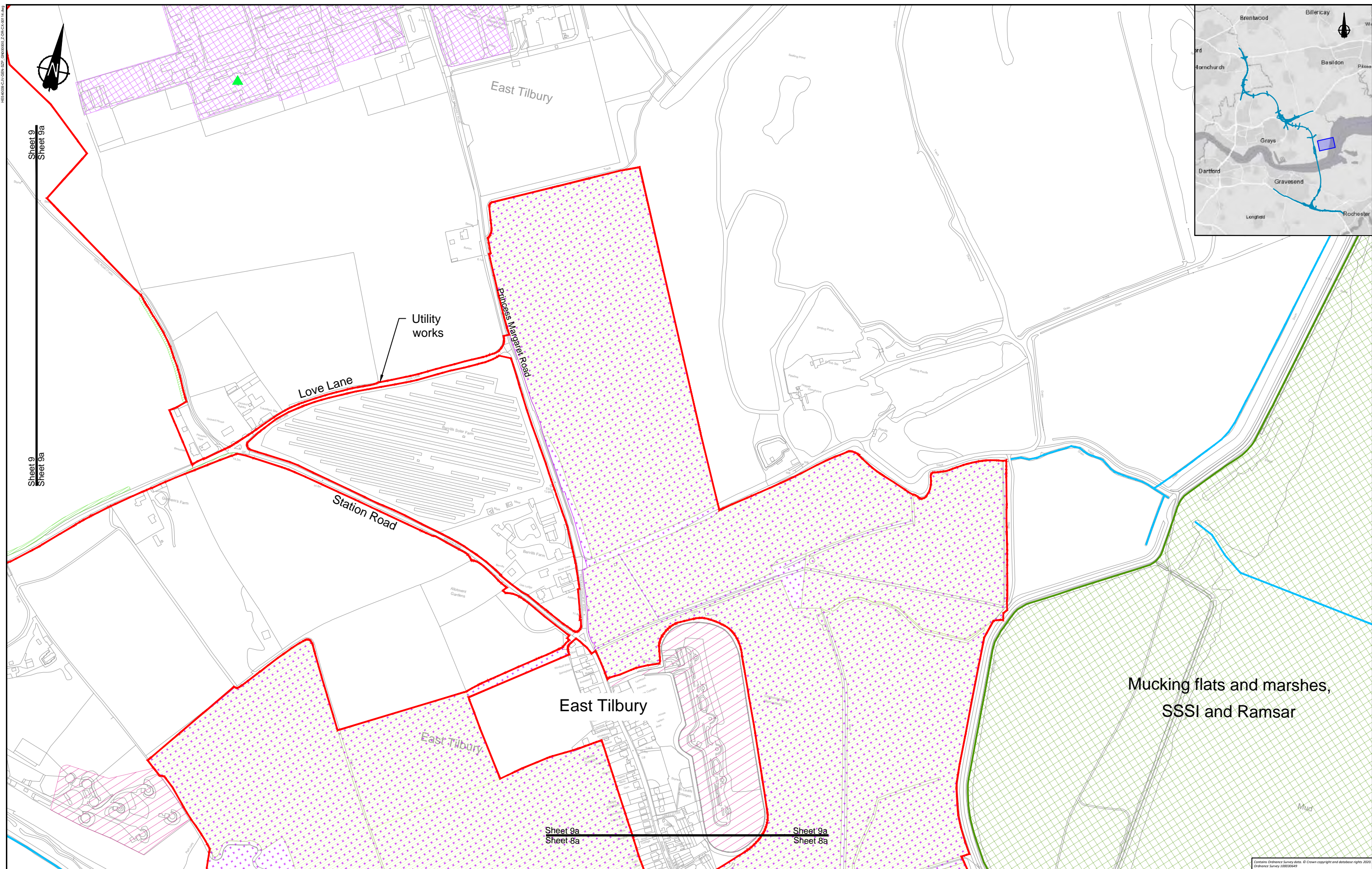


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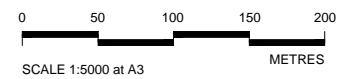
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Mucking flats and marshes,
SSSI and Ramsar

Sheet 9a
Sheet 8a

Sheet 9a
Sheet 8a



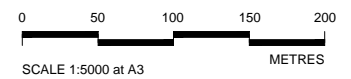
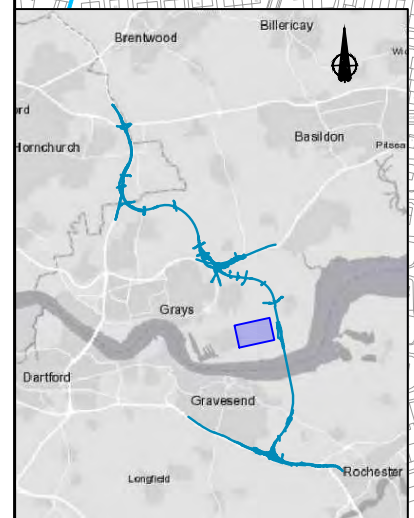
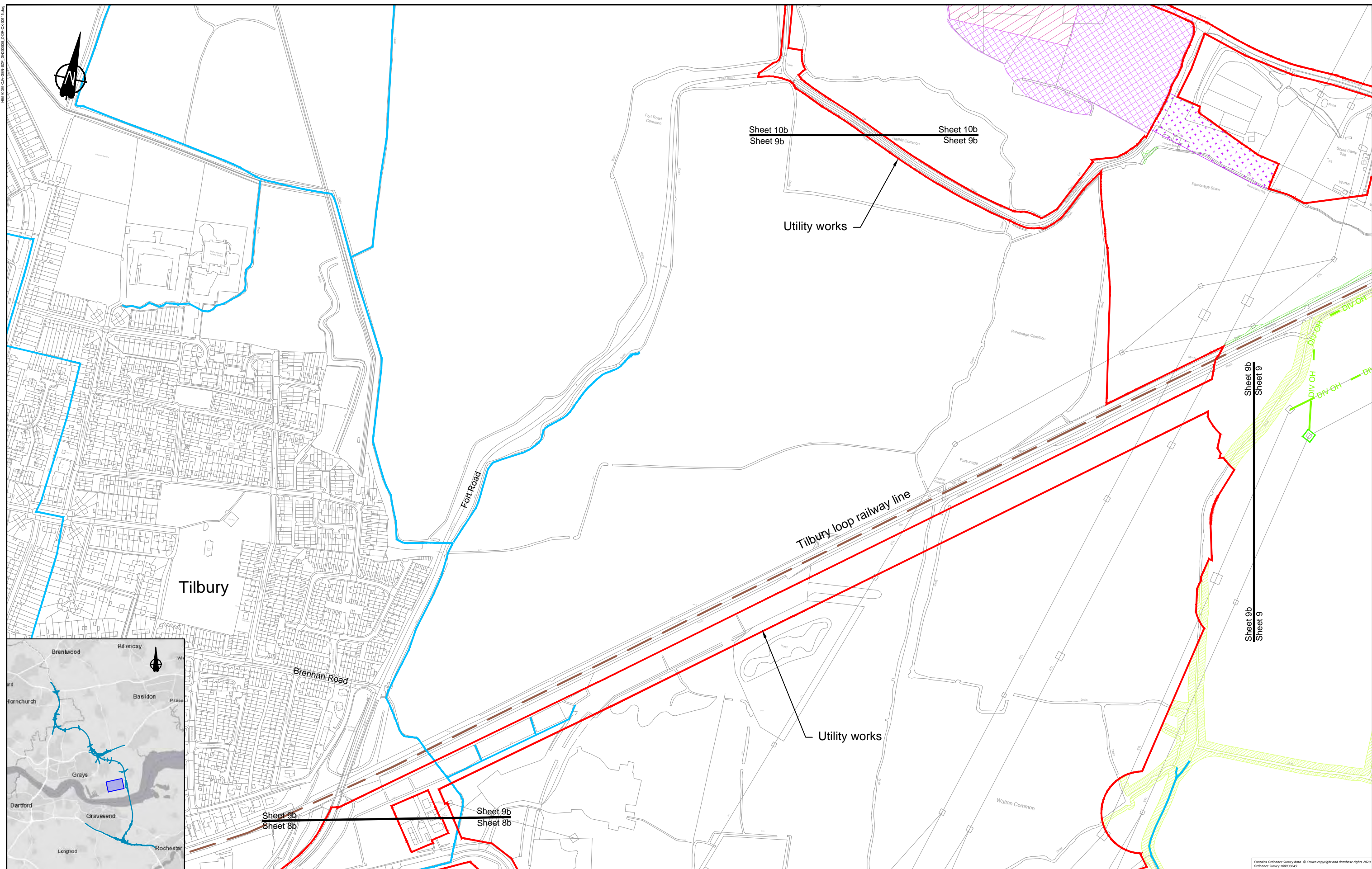
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GENERAL ARRANGEMENT PLAN
SHEET 9a

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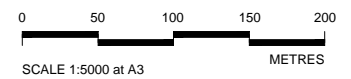
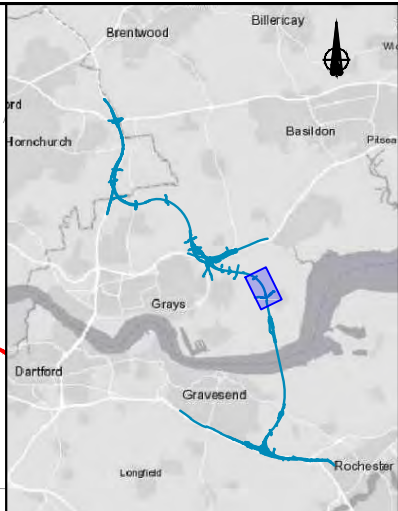
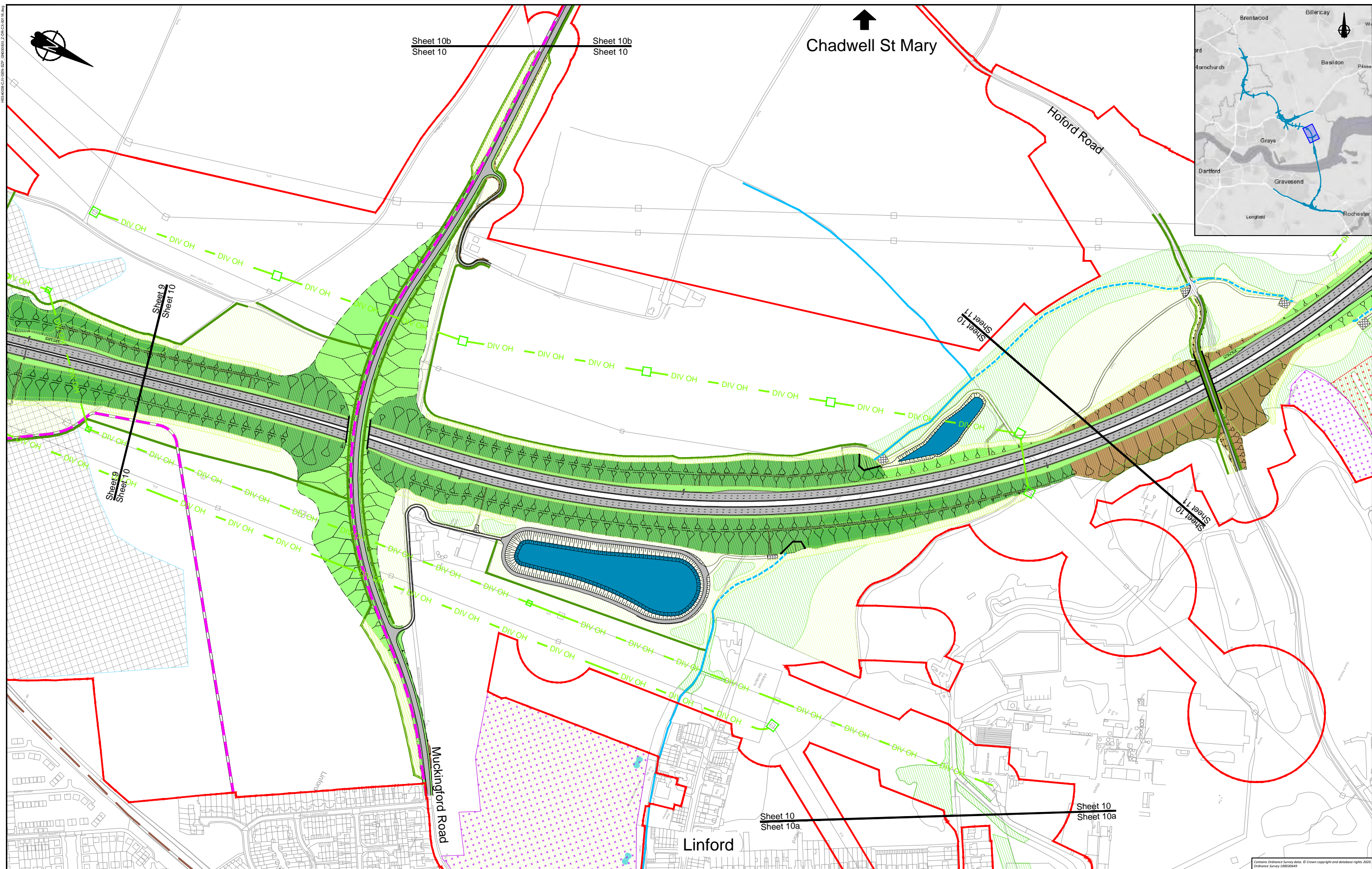
Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 9b

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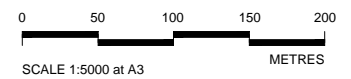
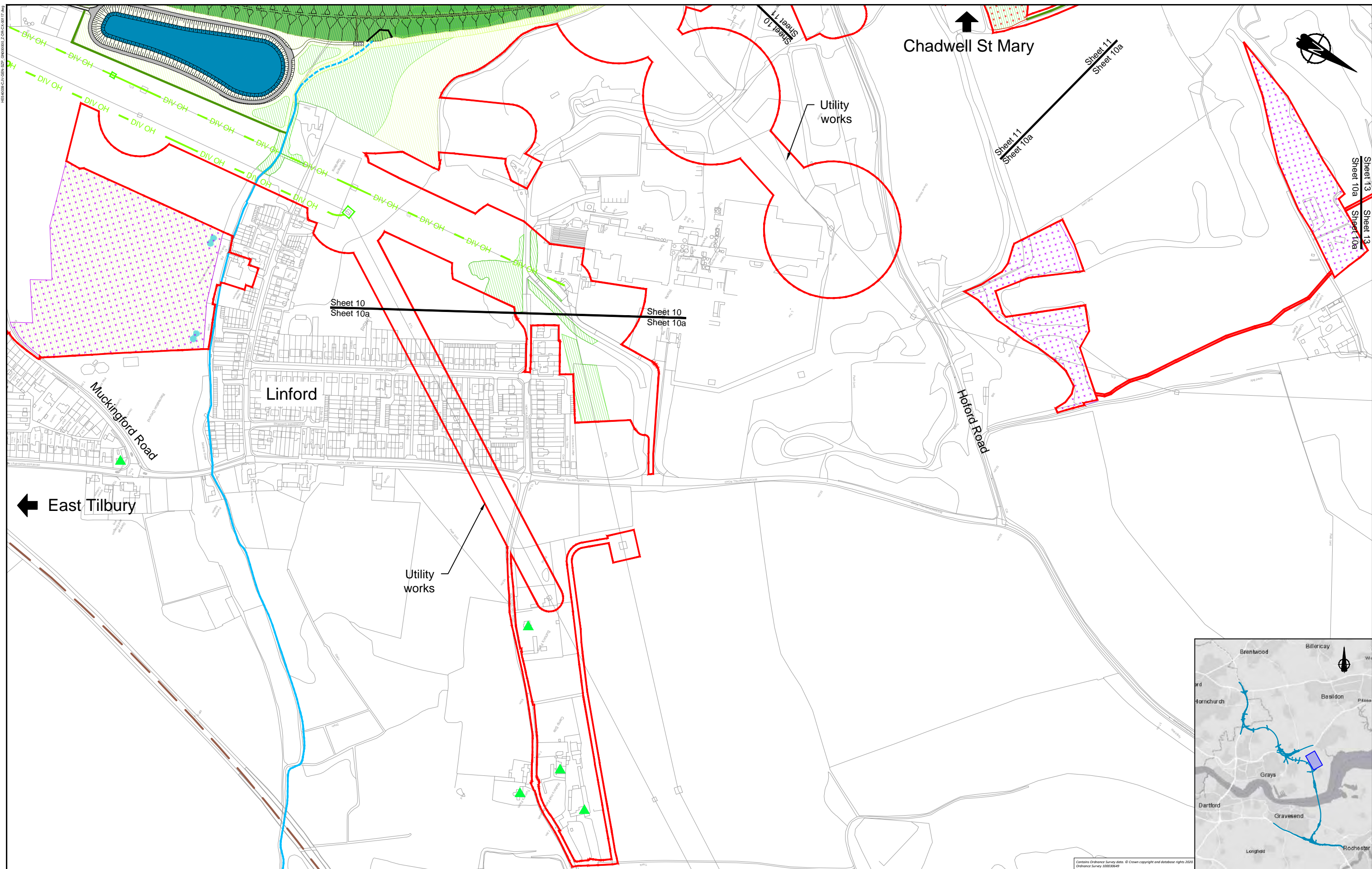


Client

PROPOSALS FOR CONSULTATION

Project
 LOWER THAMES CROSSING
 DESIGN REFINEMENT CONSULTATION
 Drawing title
GENERAL ARRANGEMENT PLAN
 SHEET 10

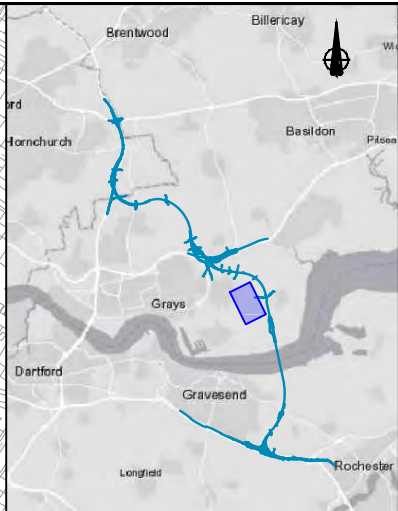
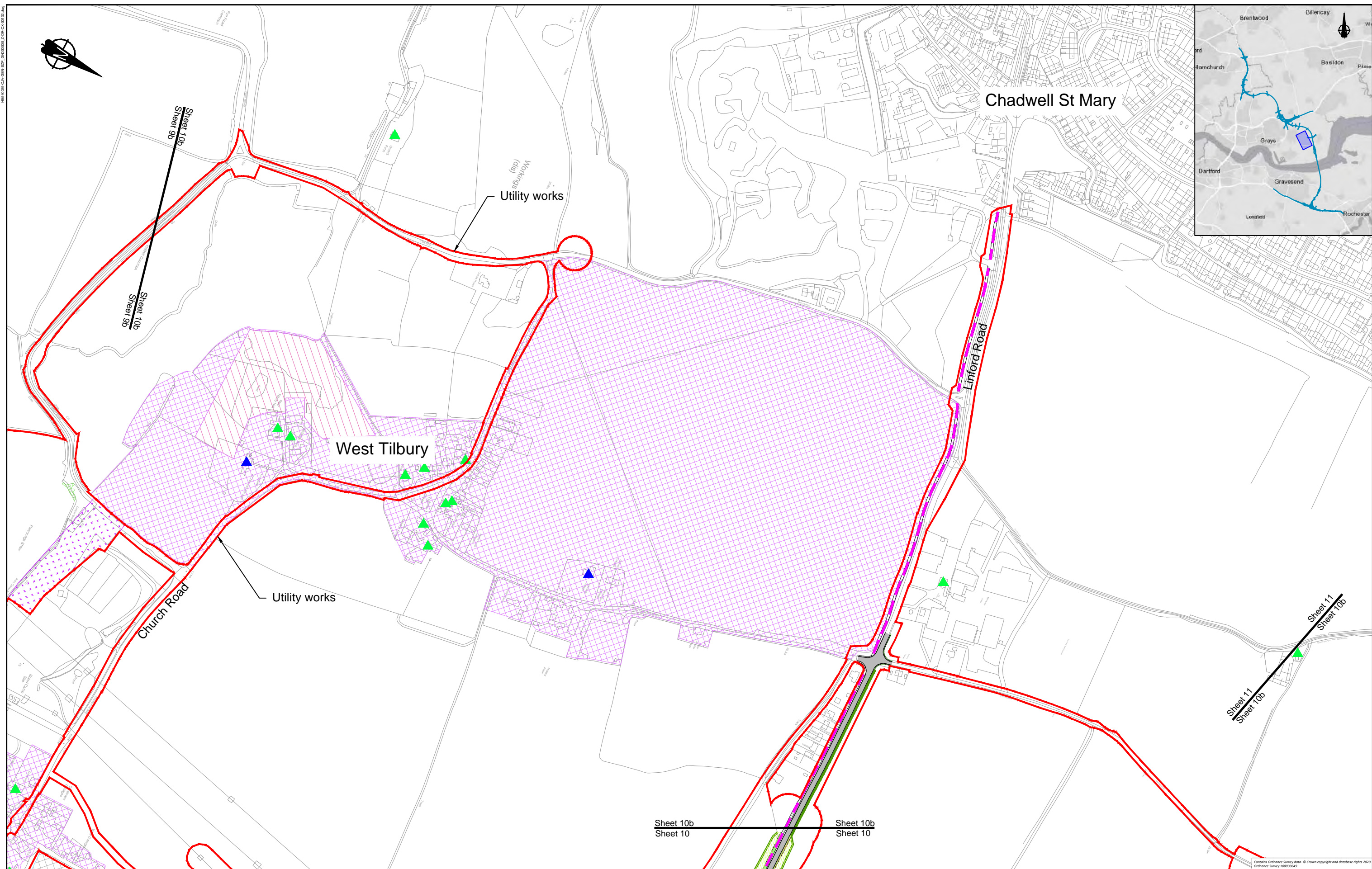
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Client

PROPOSALS FOR CONSULTATION

Project
 LOWER THAMES CROSSING
 DESIGN REFINEMENT CONSULTATION
 Drawing title
GENERAL ARRANGEMENT PLAN
 SHEET 10a



Chadwell St Mary

Utility works

West Tilbury

Utility works

Church Road

Linford Road

Sheet 10a
Sheet 9b

Sheet 10a
Sheet 9b

Sheet 11
Sheet 10b

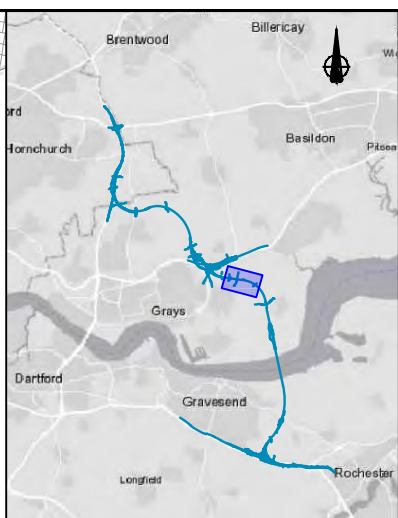
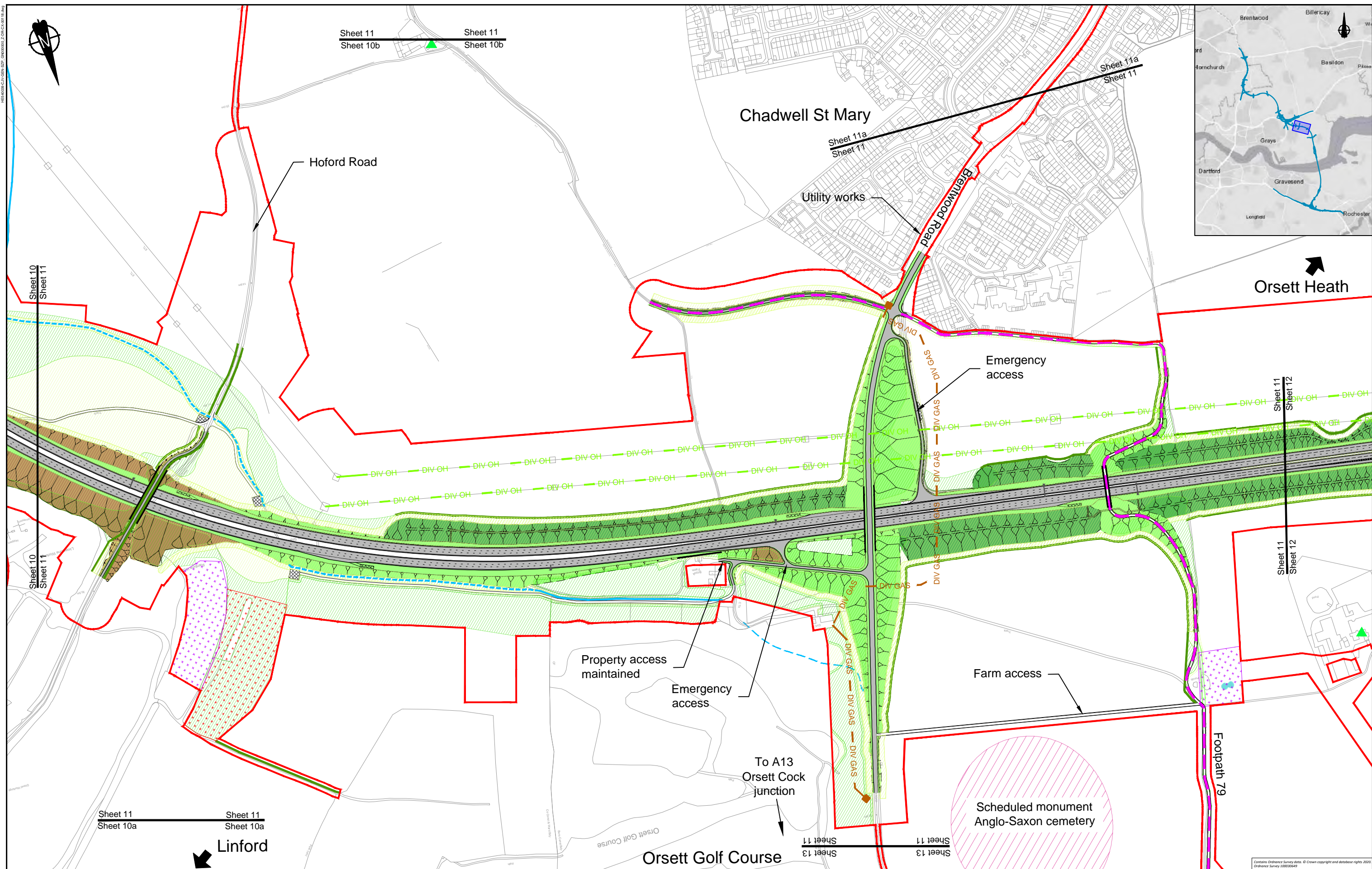
Sheet 10b
Sheet 10

Sheet 10b
Sheet 10

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| | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | Drawing title GENERAL ARRANGEMENT PLAN SHEET 10b |

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Sheet 10a

Sheet 10
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Sheet 10
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Sheet 11
Sheet 10a

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Sheet 10a

Sheet 11a
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Sheet 11a
Sheet 11

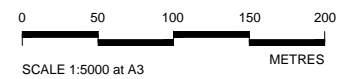
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Sheet 12

Sheet 11
Sheet 13

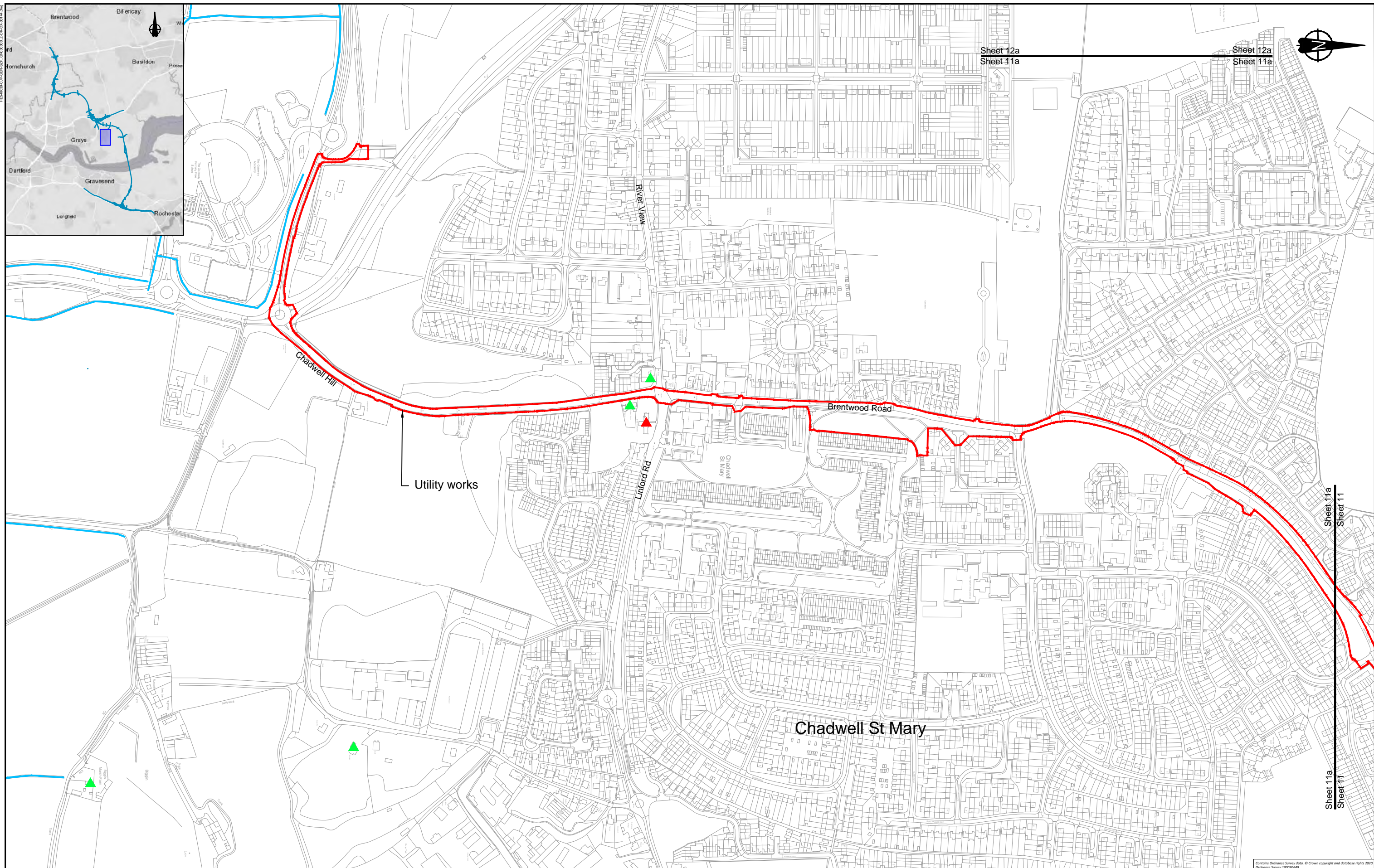
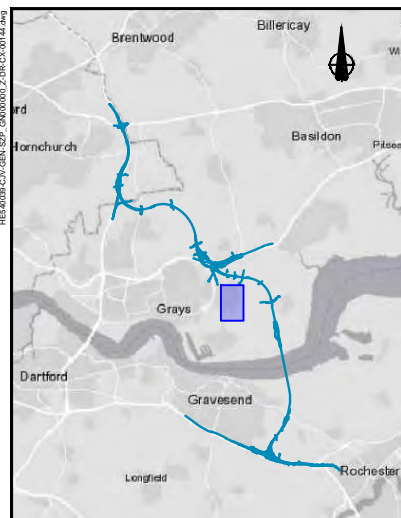
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| | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | Drawing title GENERAL ARRANGEMENT PLAN SHEET 11 |

PROPOSALS FOR CONSULTATION

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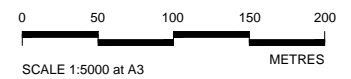
Sheet 12a
Sheet 11a

Sheet 12a
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Sheet 11a
Sheet 11

Sheet 11a
Sheet 11

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Client



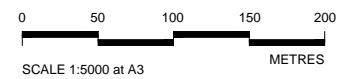
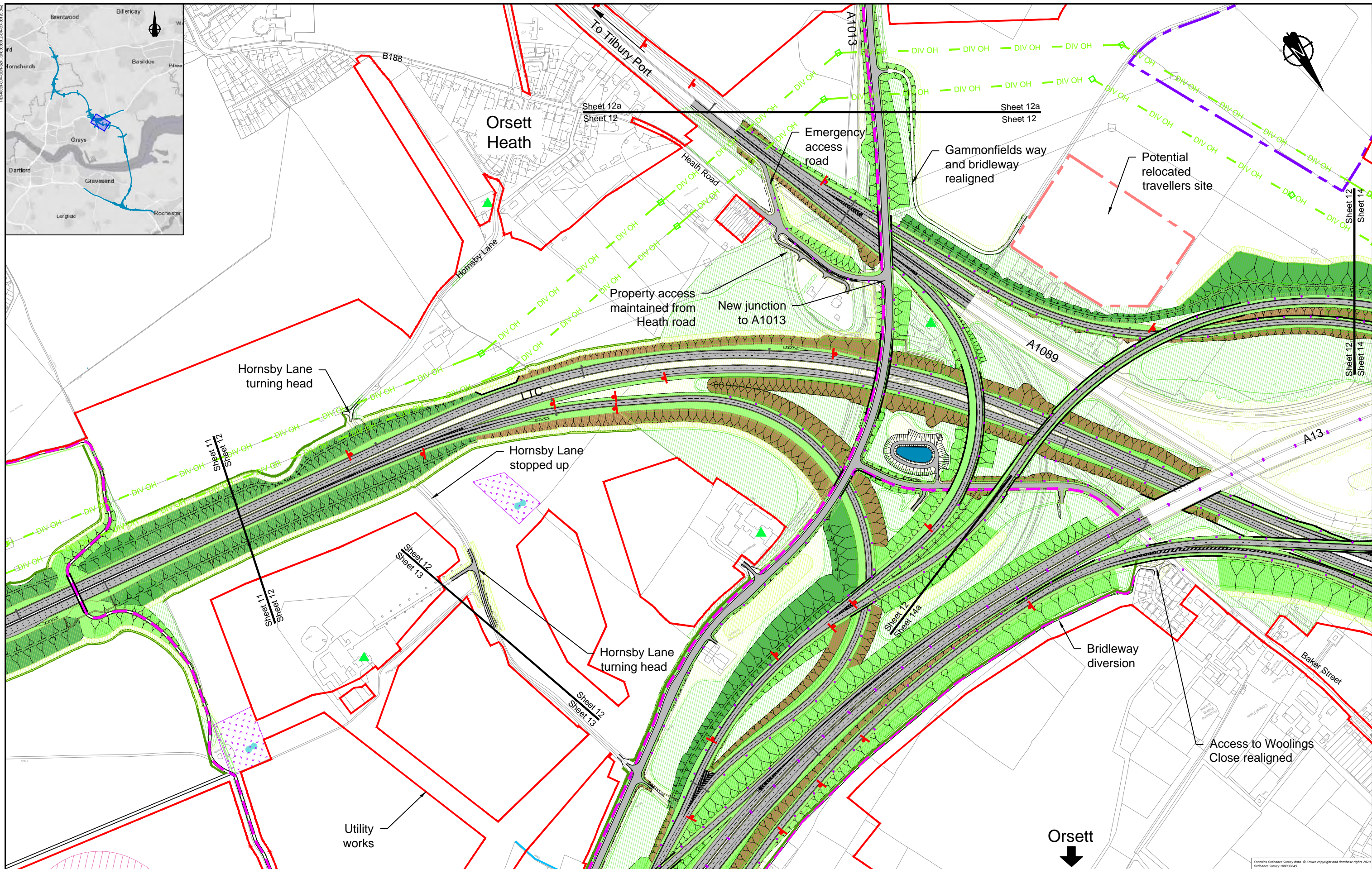
PROPOSALS FOR CONSULTATION

Project

**LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION**

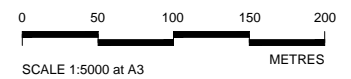
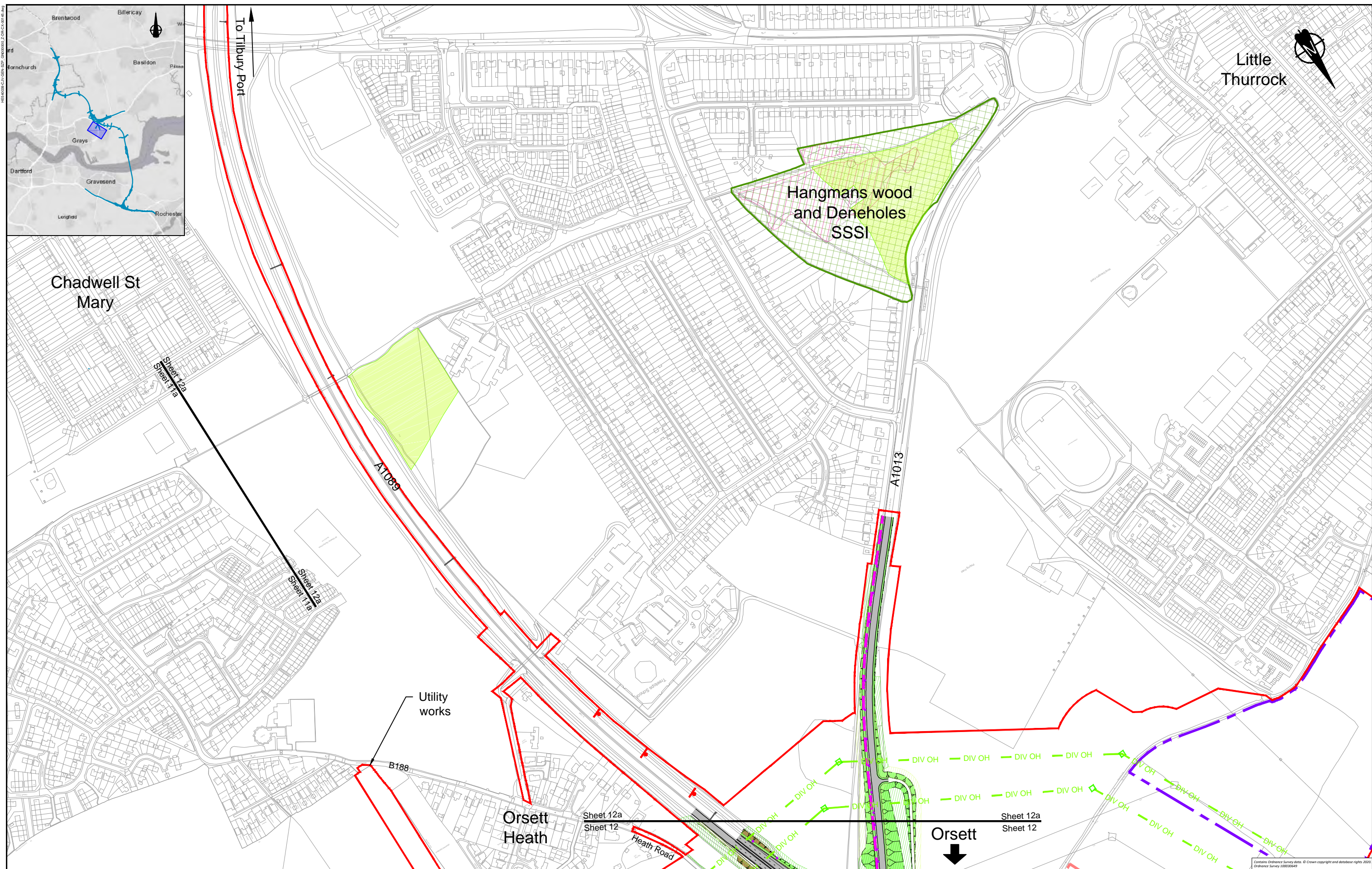
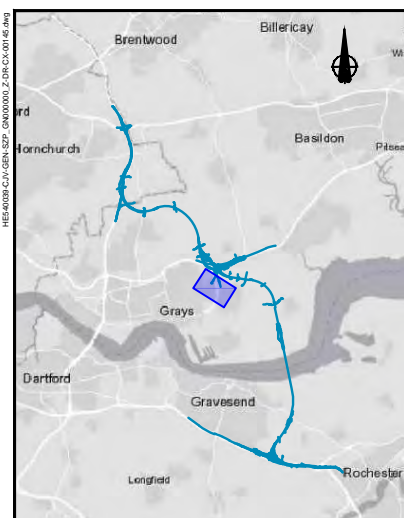
Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 11a**



| | | |
|-----------------------------------|---|--------------------------|
| | Client | Project |
| | LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION | |
| PROPOSALS FOR CONSULTATION | Drawing title | GENERAL ARRANGEMENT PLAN |
| | SHEET 12 | |

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Client

PROPOSALS FOR CONSULTATION

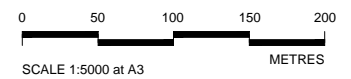
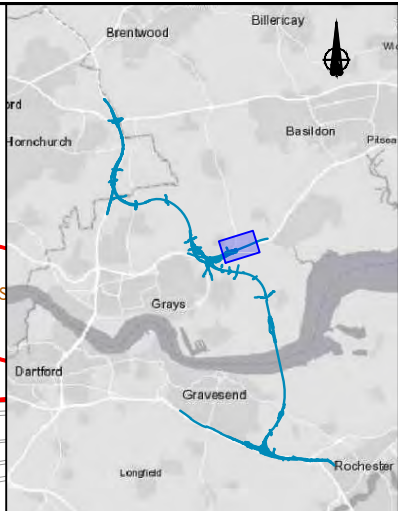
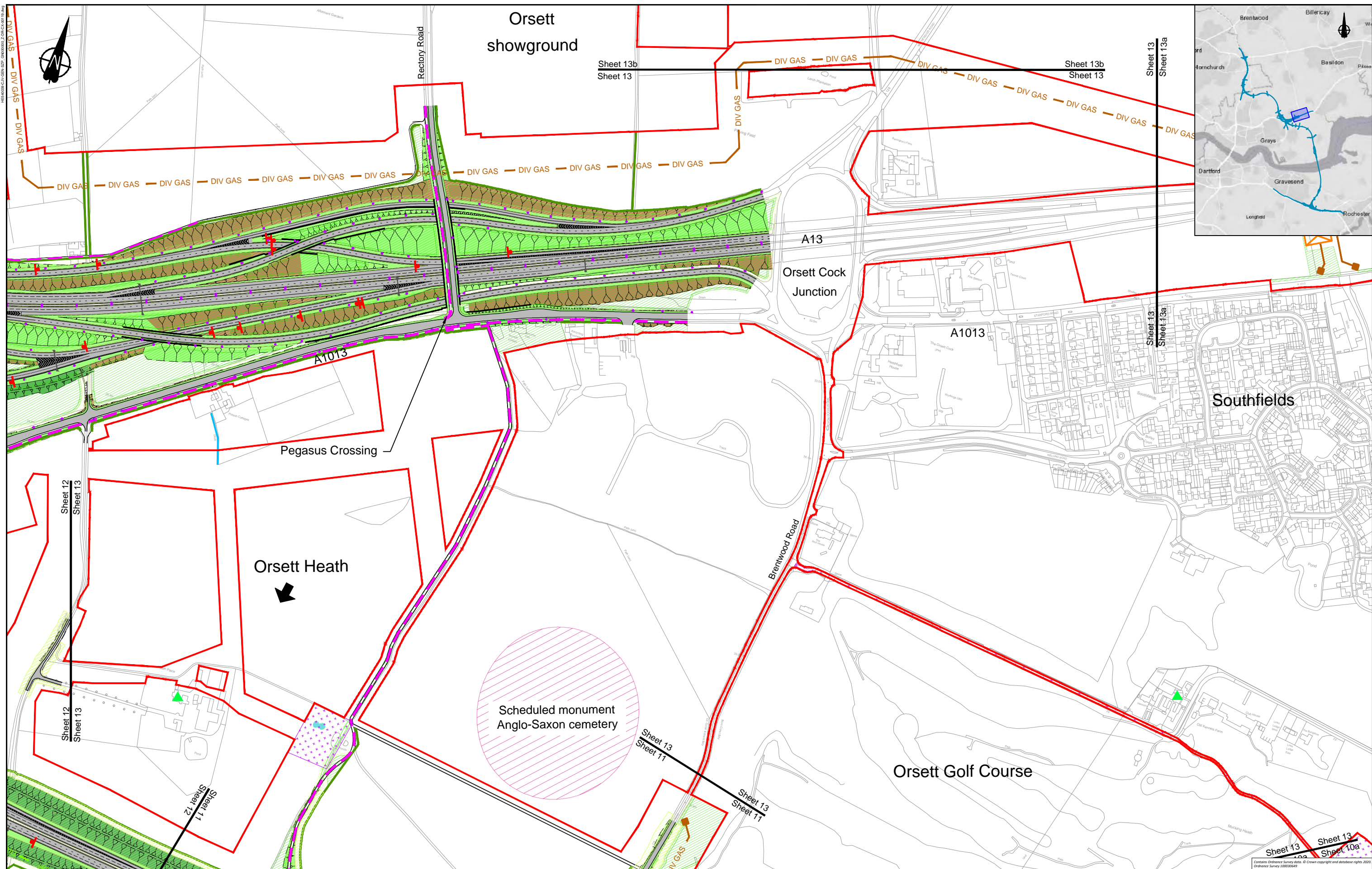
Project

**LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION**

Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 12a**

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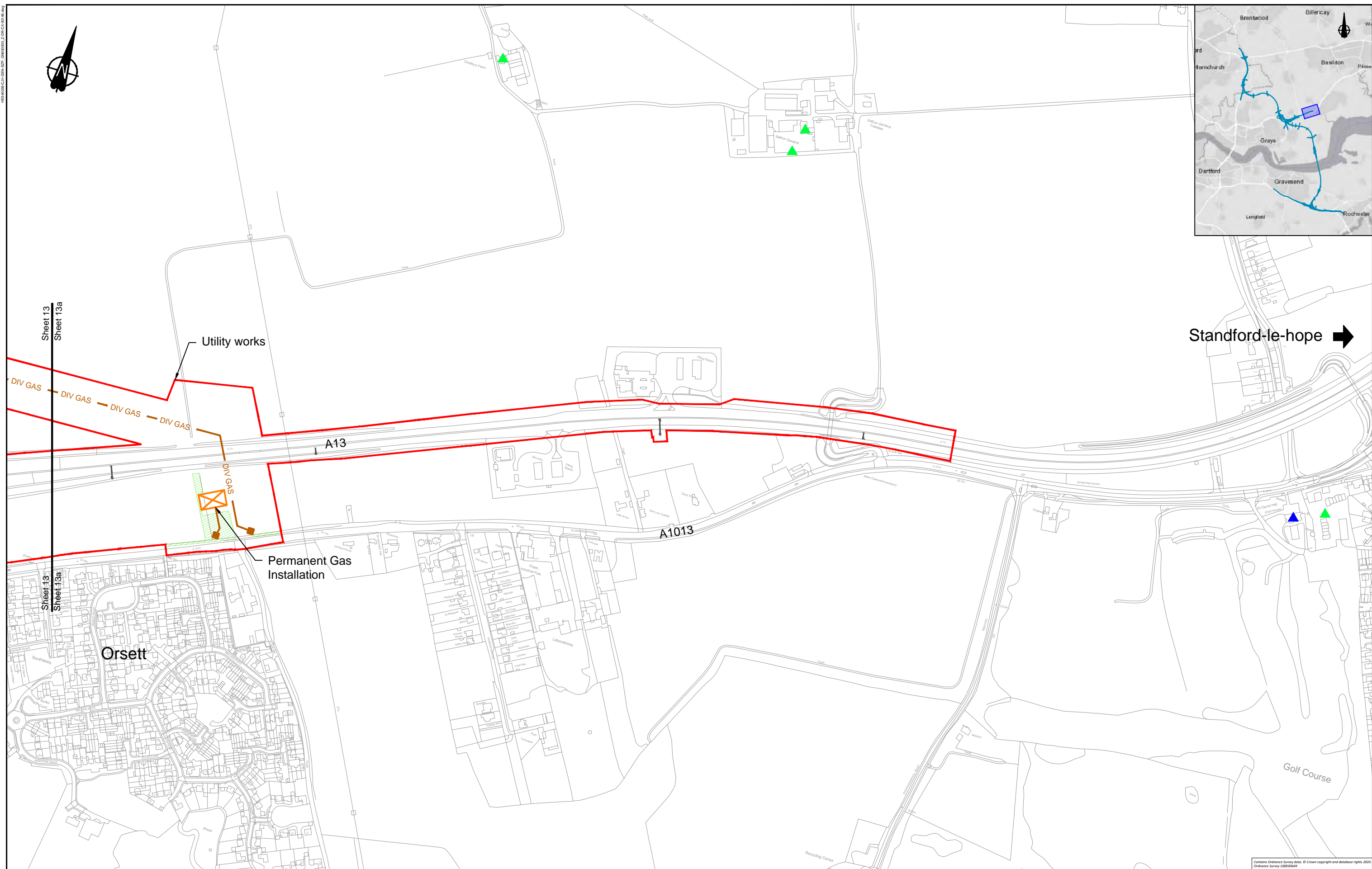
Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

Project
LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 13**

Sheet 13
Sheet 10a



Sheet 13
Sheet 13a

Standford-le-hope →

Orsett

Permanent Gas Installation

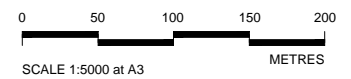
Utility works


A13

A1013

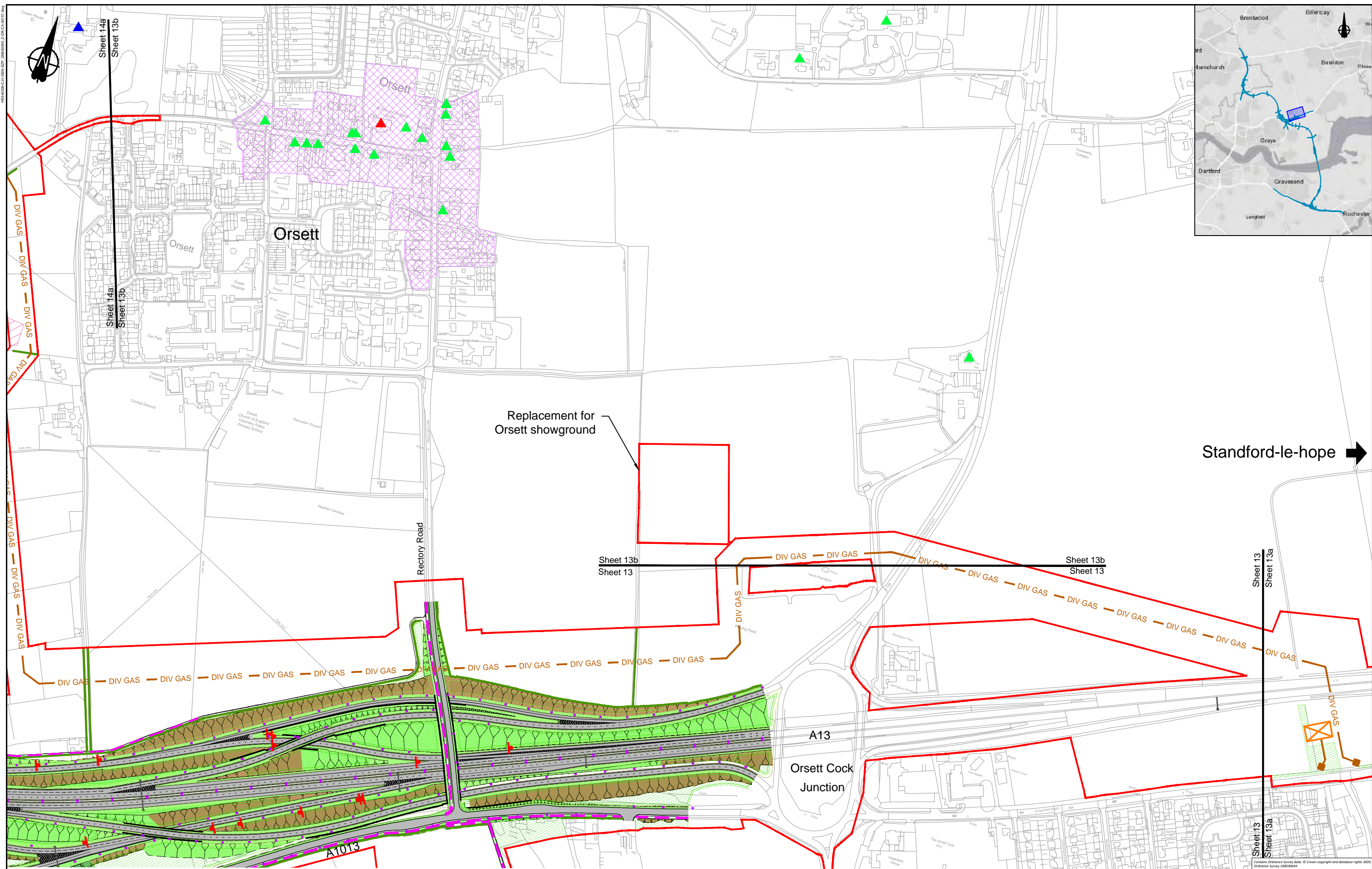
Golf Course

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|---|---|
|  | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | Drawing title GENERAL ARRANGEMENT PLAN SHEET 13a |

**PROPOSALS FOR
CONSULTATION**



Standford-le-hope →

Replacement for Orsett showground

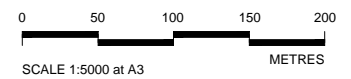
Sheet 13b
Sheet 13

Sheet 13b
Sheet 13

Sheet 13
Sheet 13a

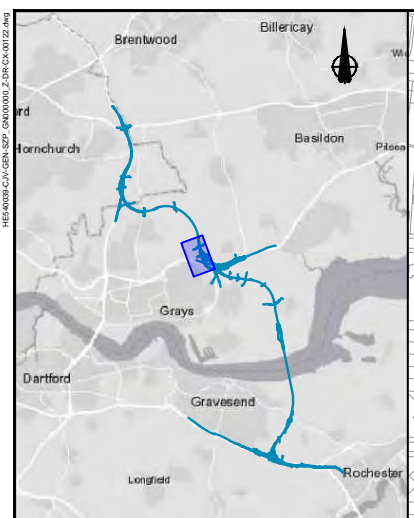
A13
Orsett Cock Junction

A1013

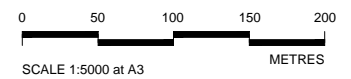
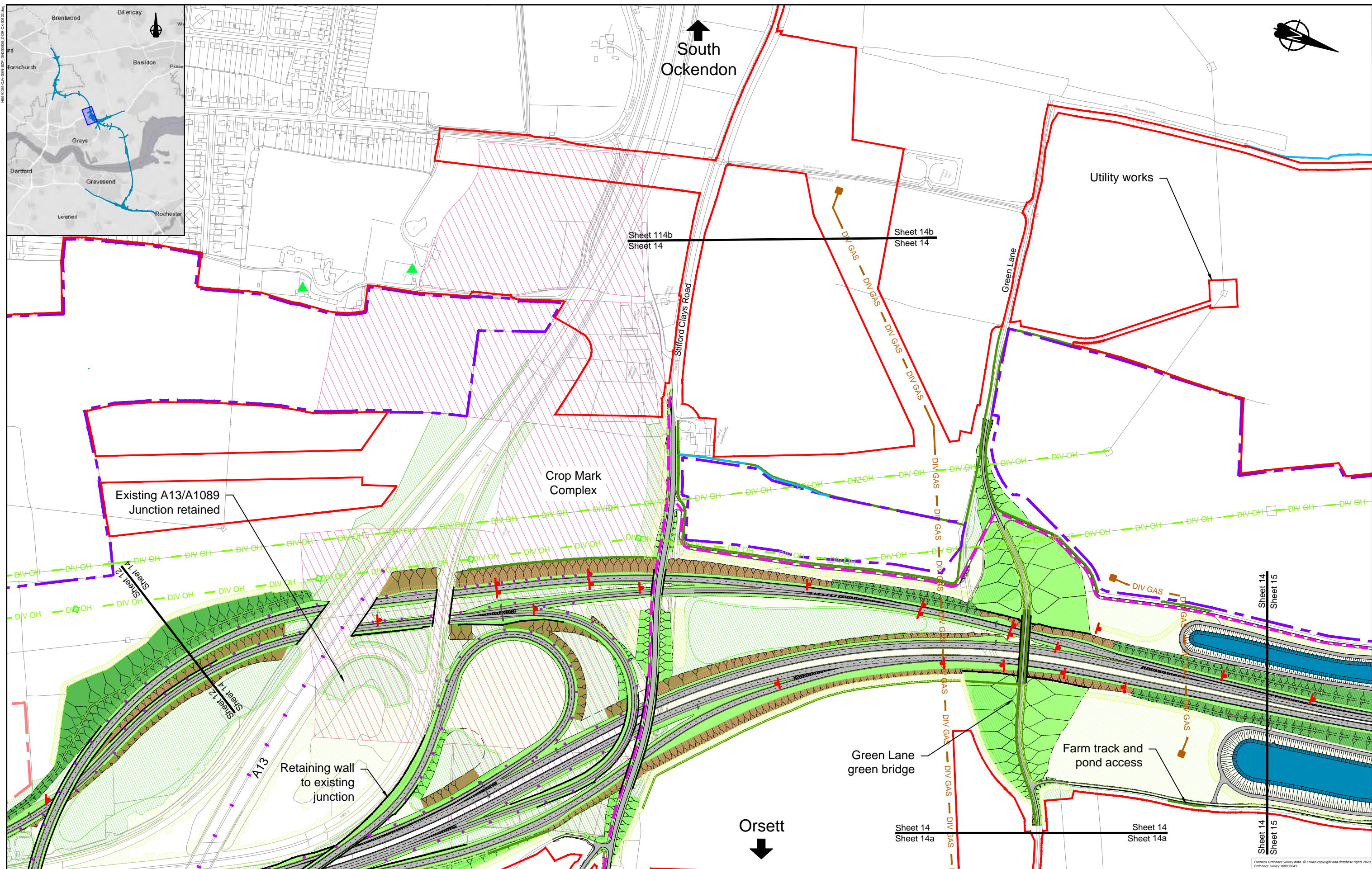


| | |
|--|---|
| | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | Drawing title GENERAL ARRANGEMENT PLAN SHEET 13b |

PROPOSALS FOR CONSULTATION



South
Ockendon



Client

PROPOSALS FOR CONSULTATION

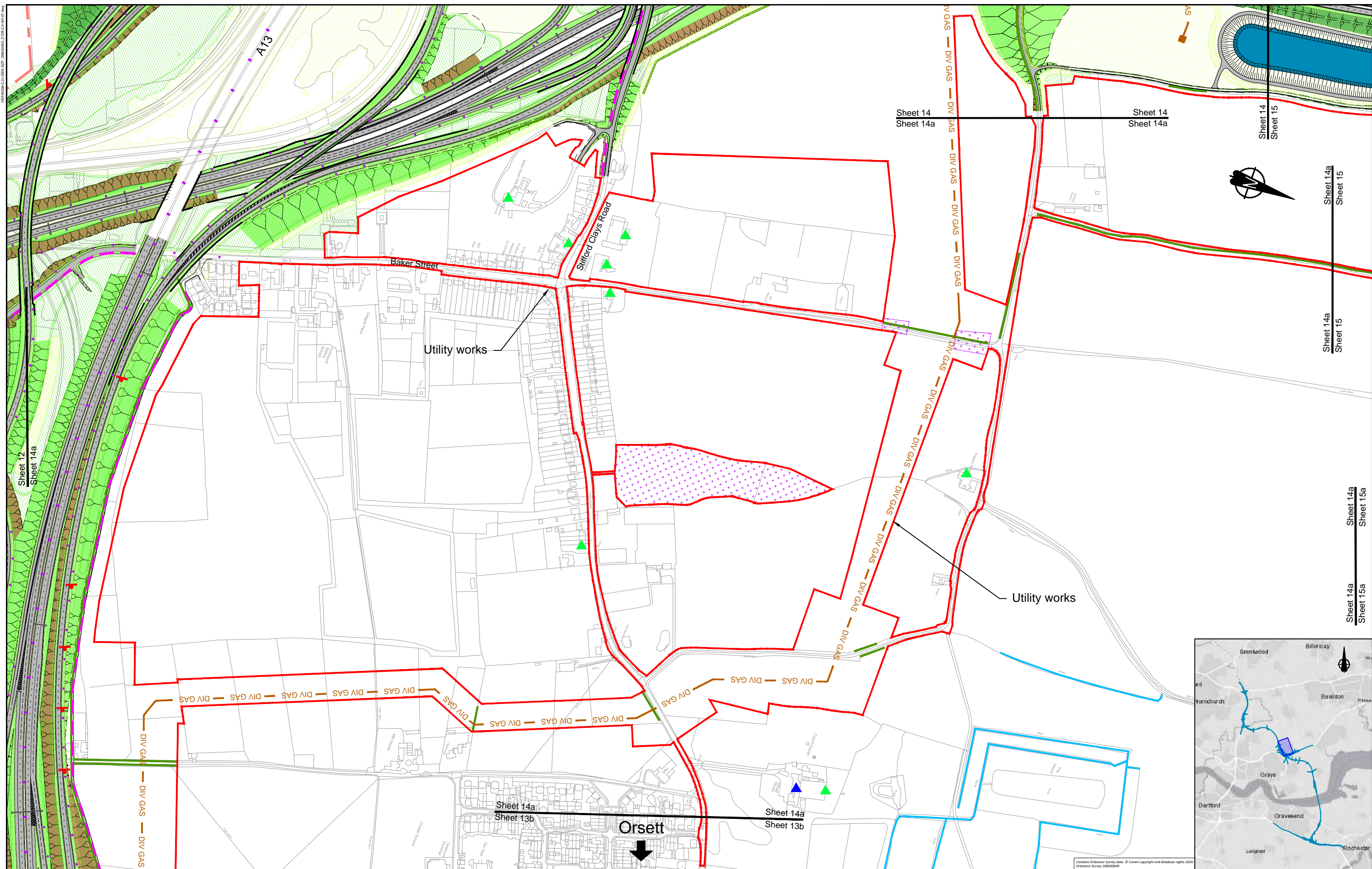
Project

LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN
SHEET 14

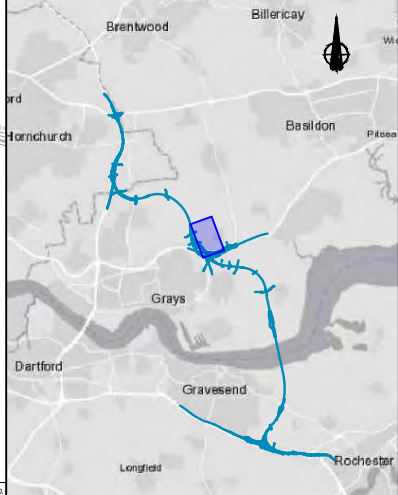
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Utility works

Utility works

Orsett



Client

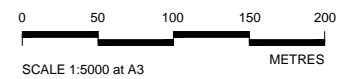
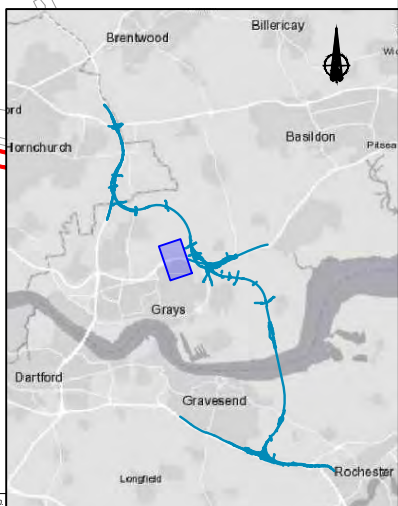
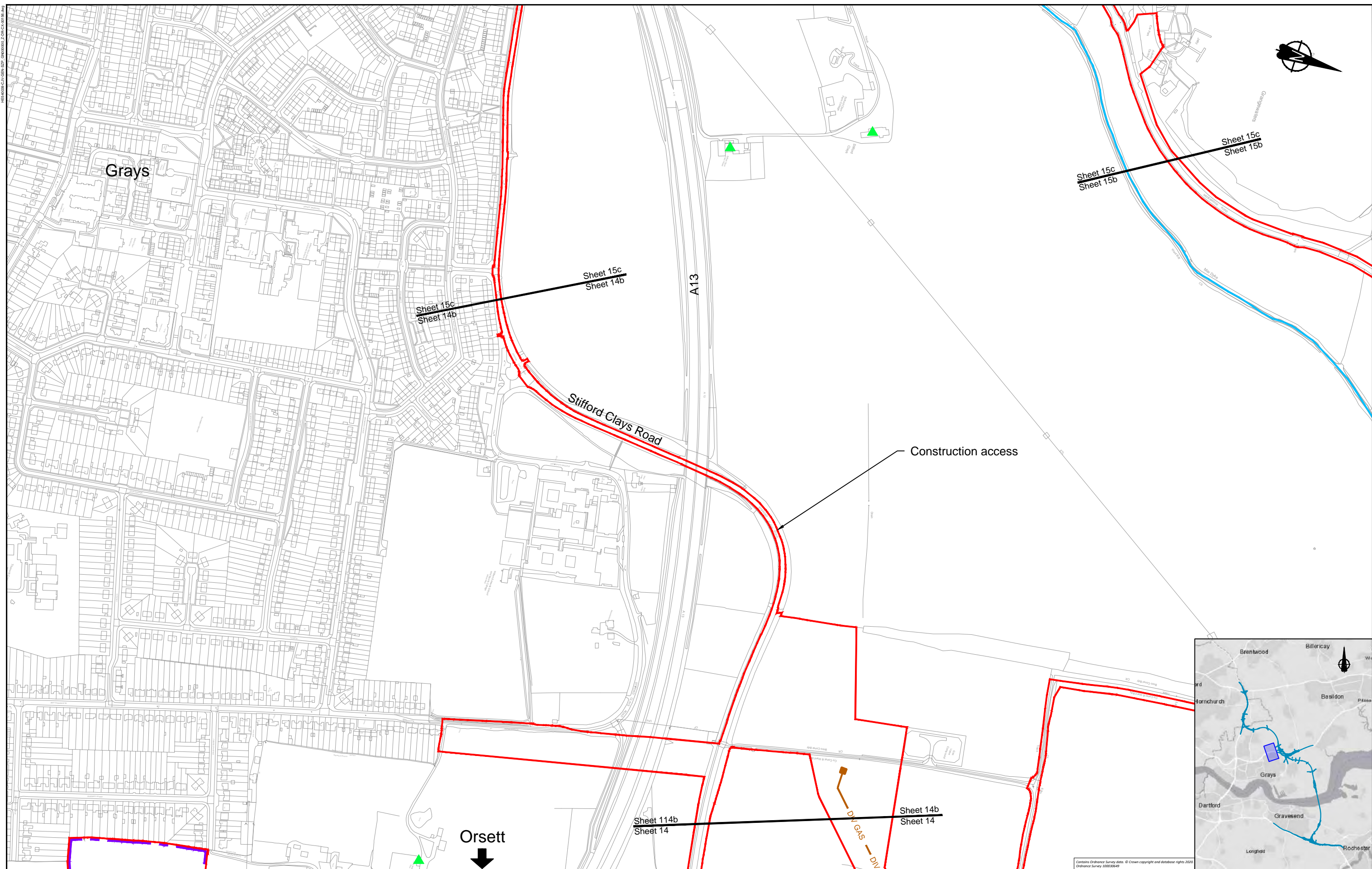
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Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 14a

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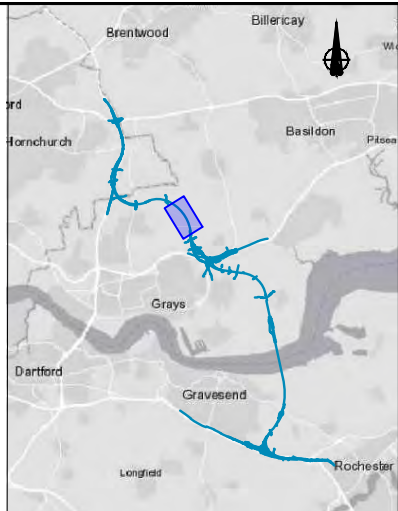
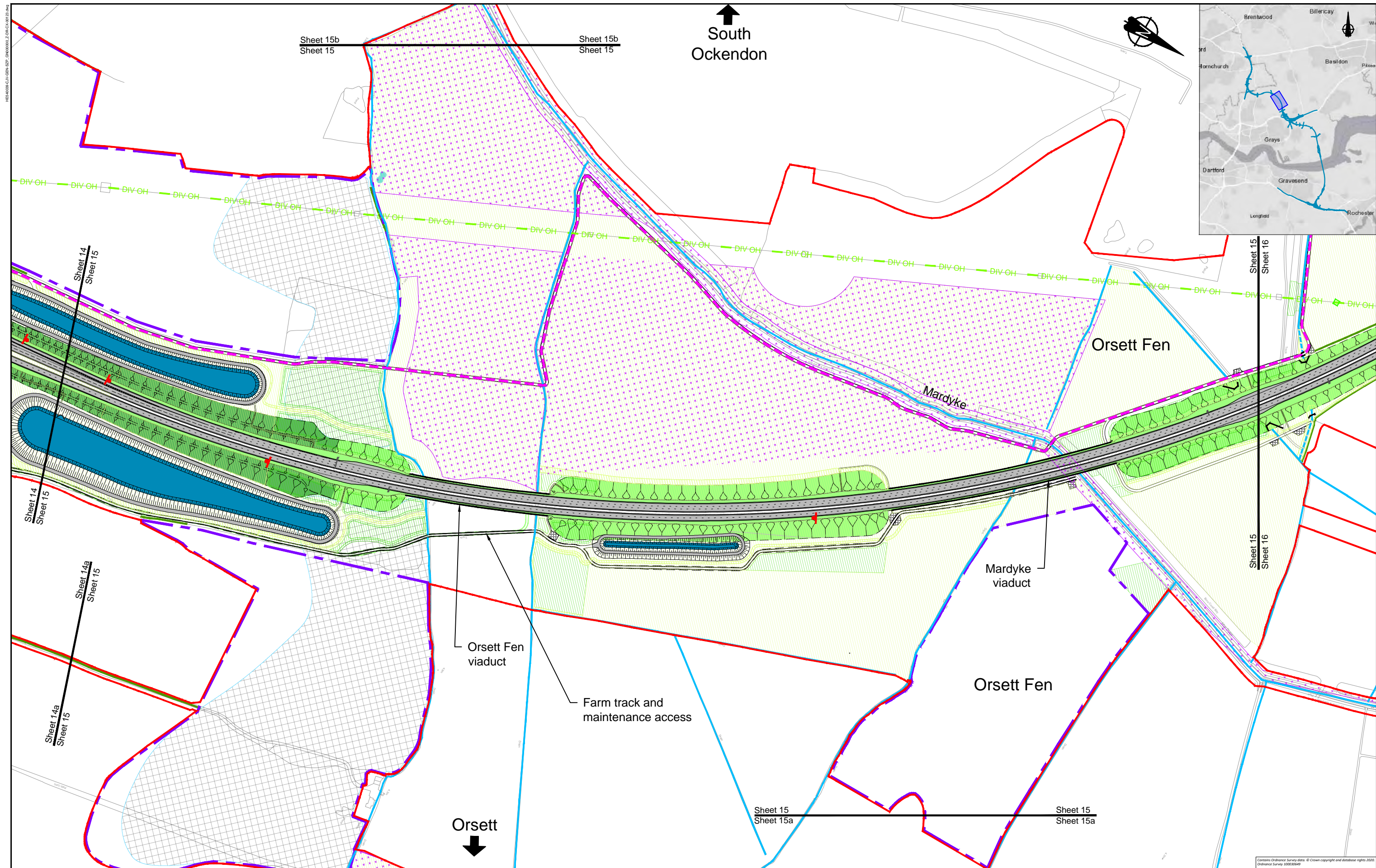


PROPOSALS FOR
CONSULTATION

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 14b

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↑
South
Ockendon

Sheet 15b
Sheet 15

Sheet 15b
Sheet 15

Sheet 15
Sheet 16

Sheet 15
Sheet 16

Sheet 14
Sheet 15

Sheet 14
Sheet 15

Sheet 14a
Sheet 15

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Sheet 15a

Sheet 15
Sheet 15a

↓
Orsett

Orsett Fen viaduct

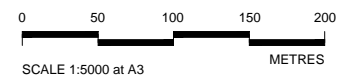
Farm track and maintenance access

Mardyke viaduct

Orsett Fen

Orsett Fen

Mardyke



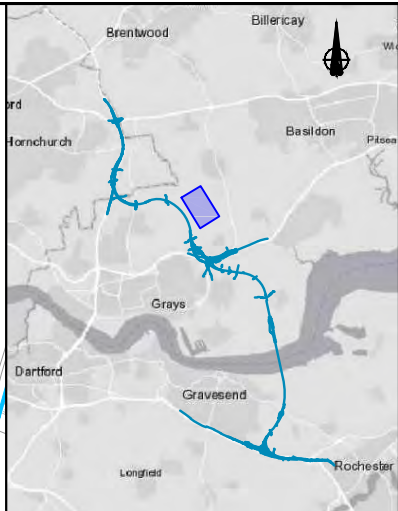
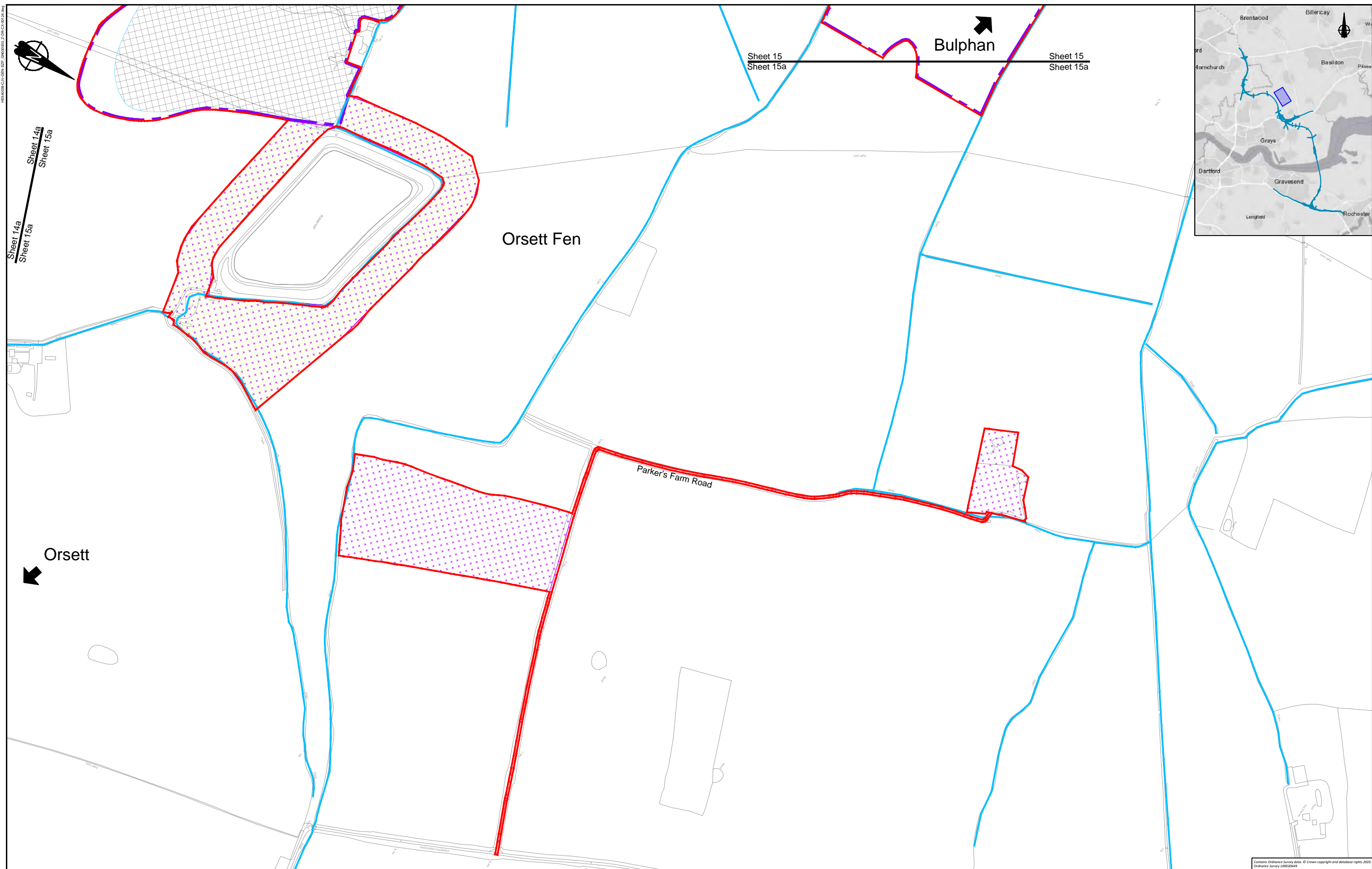
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 15

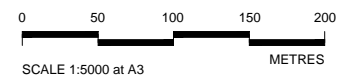
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Sheet 15a

Sheet 15
Sheet 15a

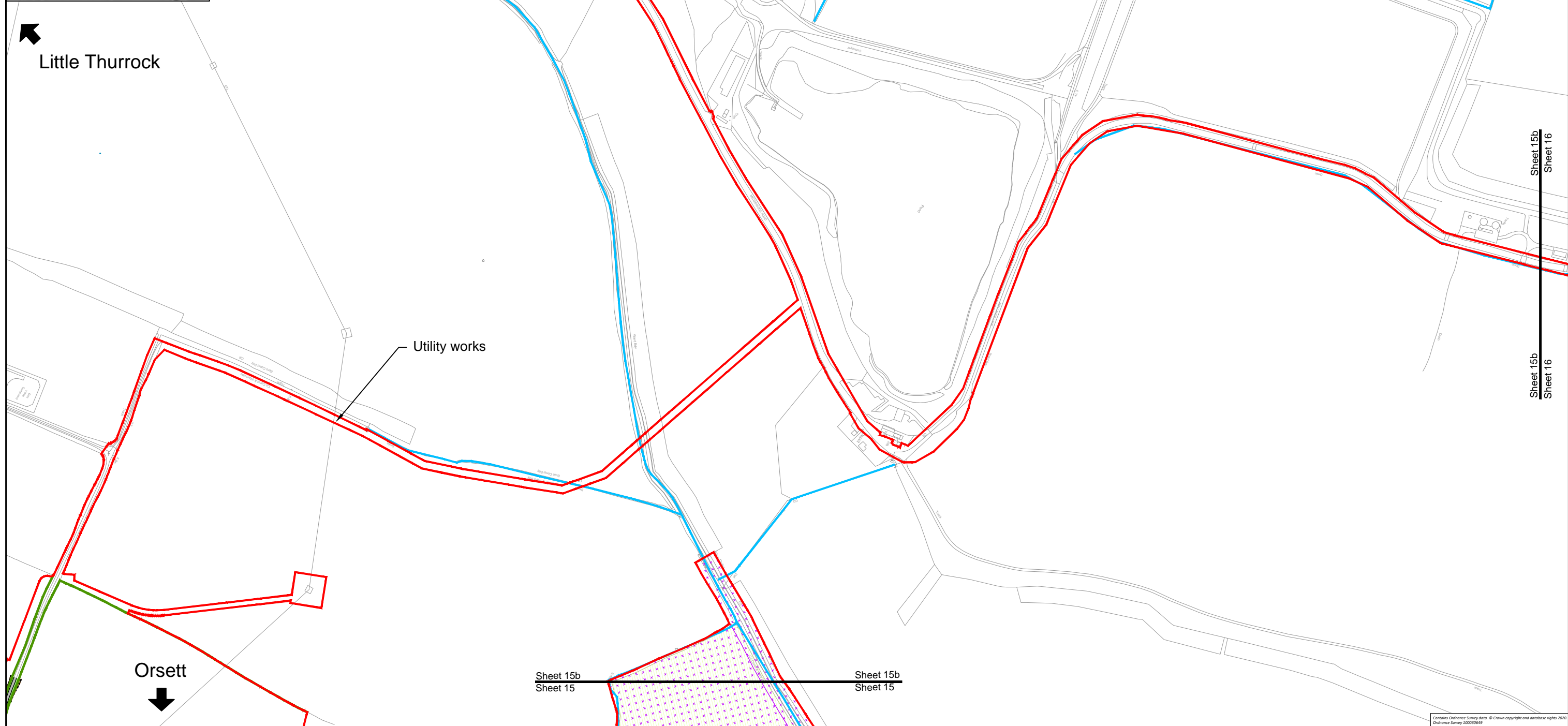
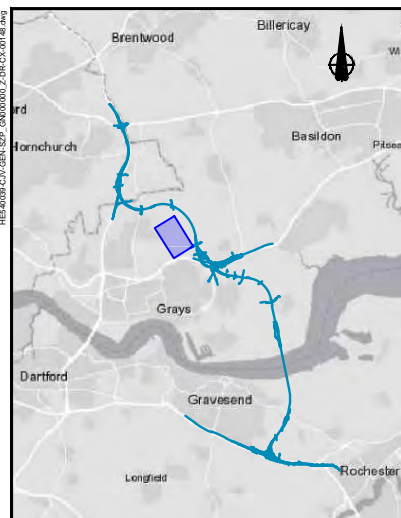
Sheet 15
Sheet 15a



Client
**highways
england**
**PROPOSALS FOR
CONSULTATION**

Project
**LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION**
Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 15a**

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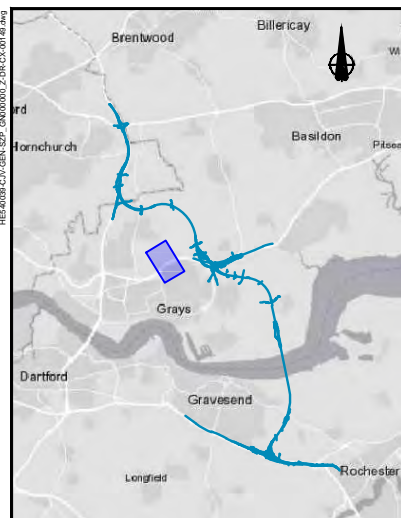
Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

Project
LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 15b**

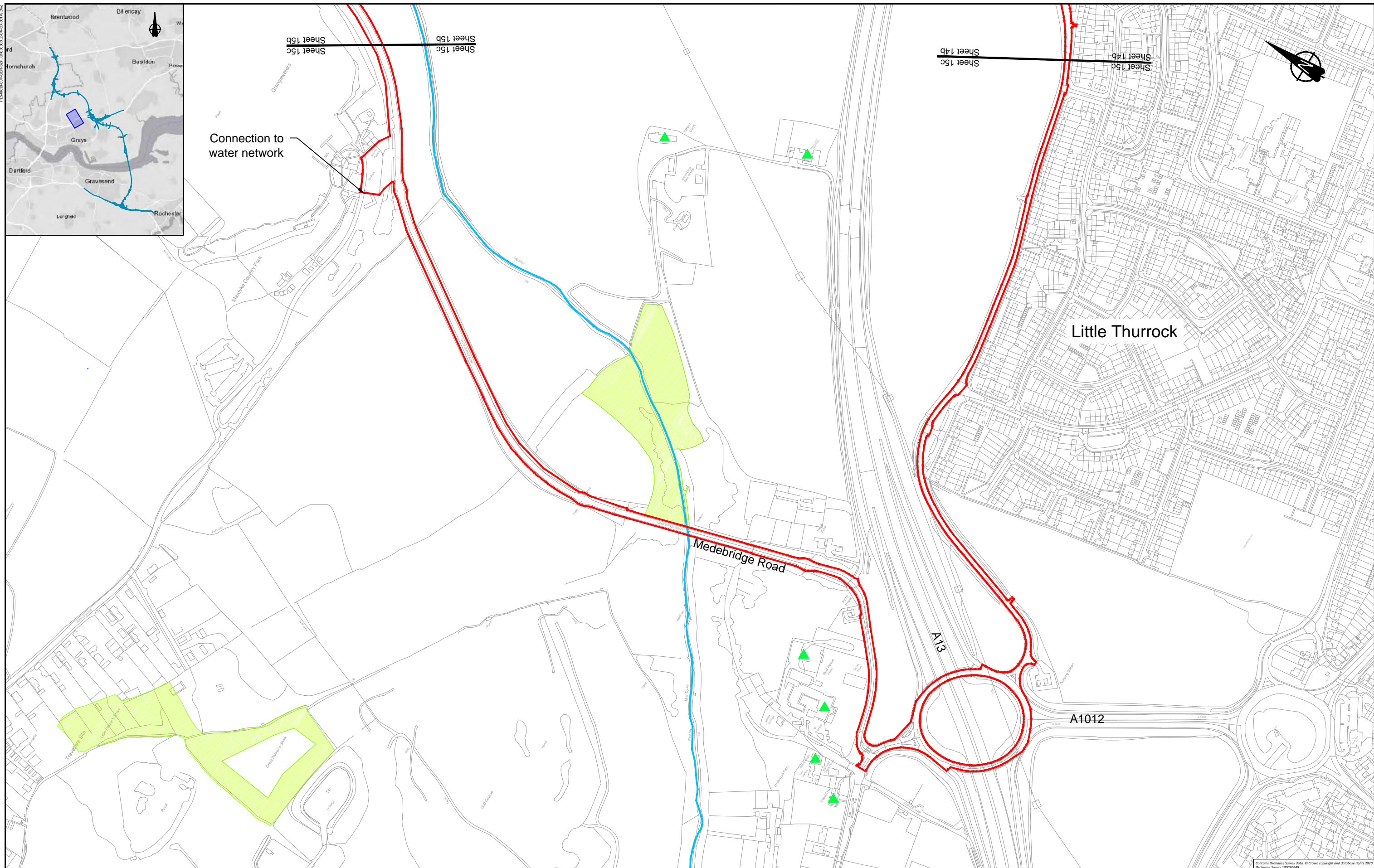
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Connection to water network

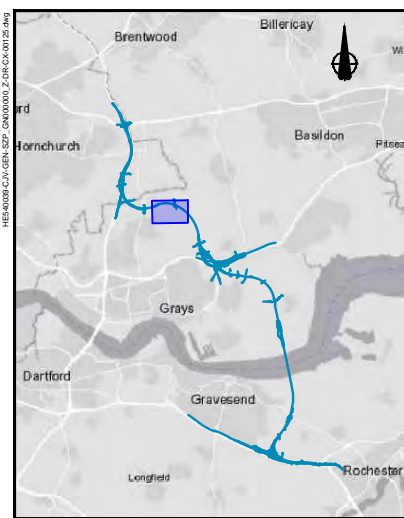
Sheet 15b
Sheet 15c
Sheet 15d

Sheet 14b
Sheet 15c
Sheet 15d



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| | Client | Project |
| | <p>PROPOSALS FOR CONSULTATION</p> | <p>LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION</p> |
| | Drawing title | |
| | | <p>GENERAL ARRANGEMENT PLAN SHEET 15c</p> |

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↑
South
Ockendon



Sheet 15b
Sheet 16

M25 →

Ockendon
Landfill

← A13

Sheet 15
Sheet 16

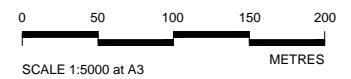
Sheet 16
Sheet 17

Sheet 16
Sheet 16a

Sheet 16
Sheet 16a

Sheet 16
Sheet 17

↓
North
Ockendon

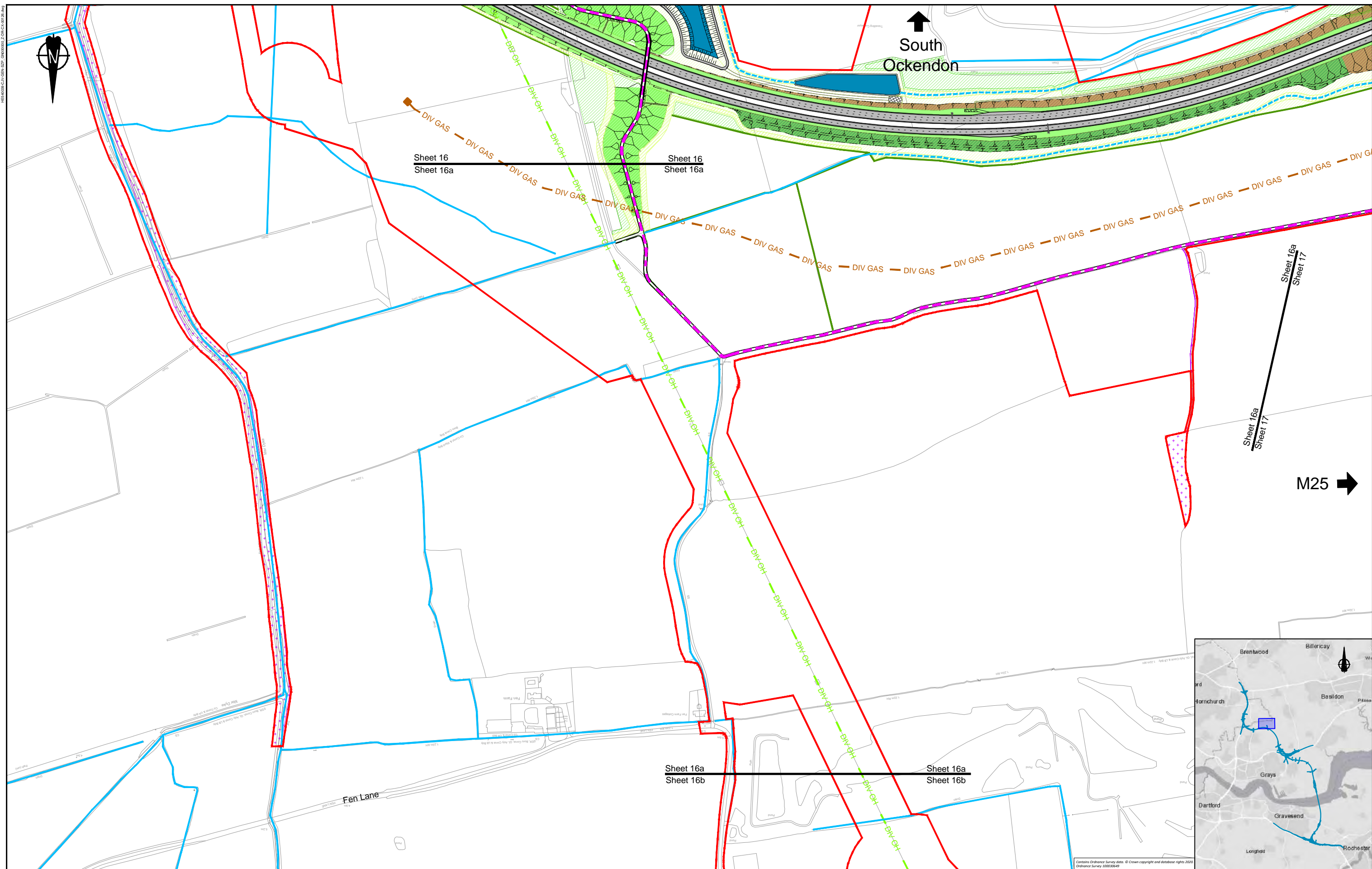


PROPOSALS FOR
CONSULTATION

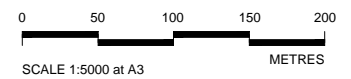
Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 16

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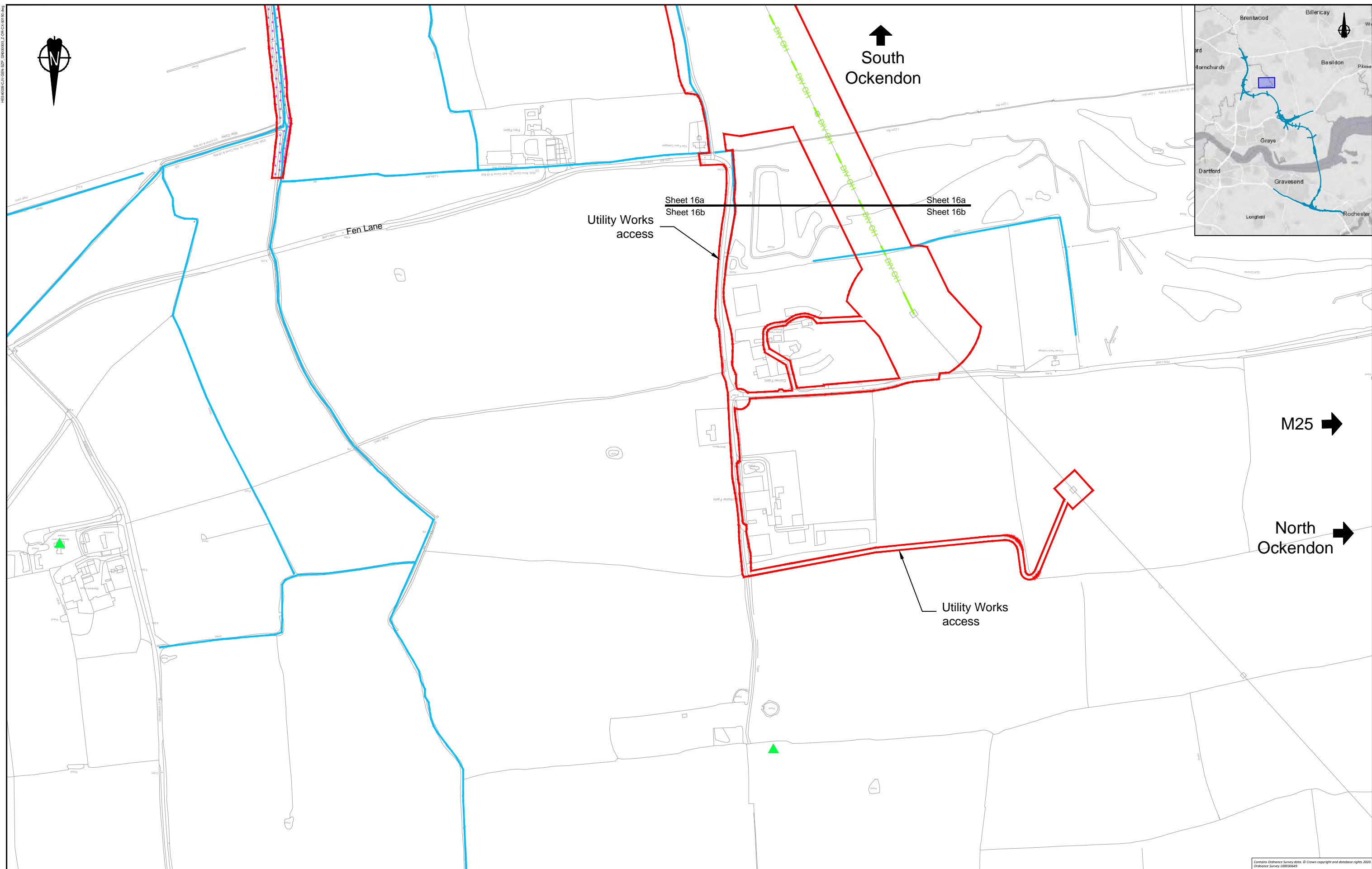
Client

PROPOSALS FOR CONSULTATION

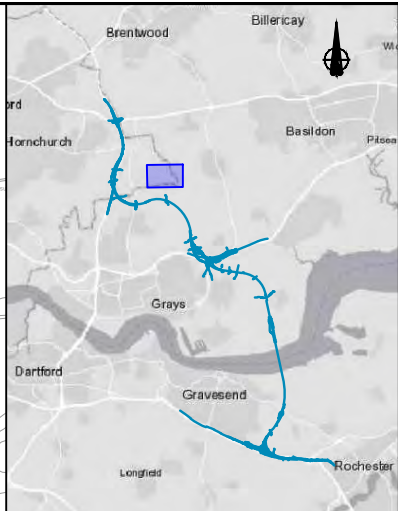
Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 16a**

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↑
South
Ockendon



Sheet 16a
Sheet 16b

Utility Works access


Fen Lane

M25 →

→
North
Ockendon

Utility Works access

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|---|-----------------------------------|--|
|  | Client highways england | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | PROPOSALS FOR CONSULTATION | Drawing title GENERAL ARRANGEMENT PLAN SHEET 16b |

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North Ockendon

M25 ←

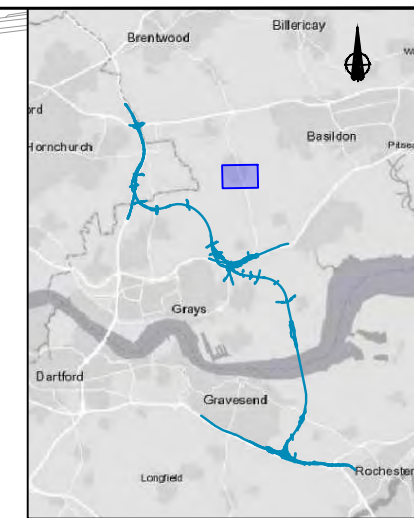
Basildon →

← North Ockendon

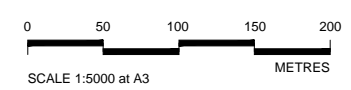
Bulphan

Utility Works

A128



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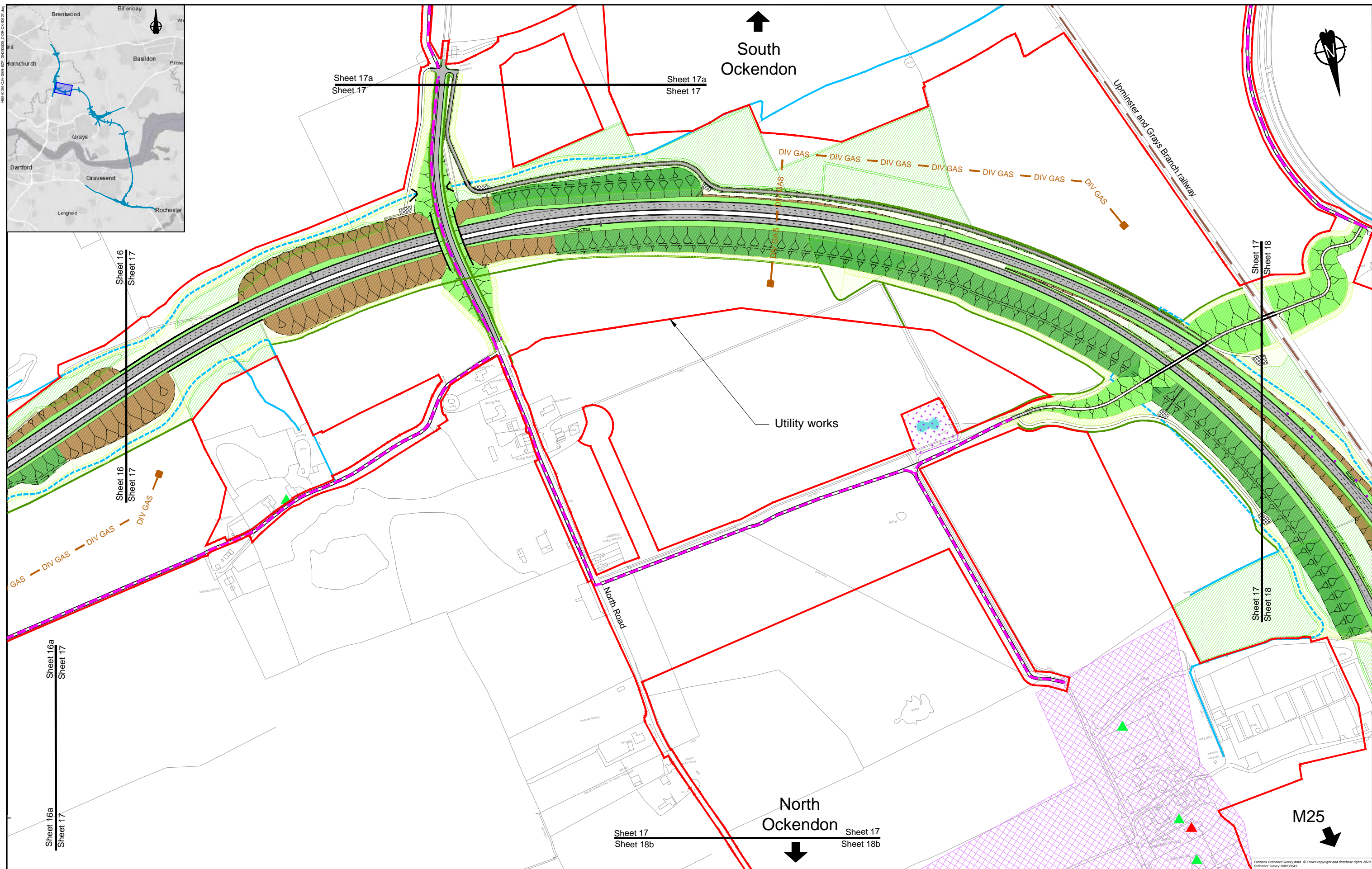
Client



PROPOSALS FOR CONSULTATION

Project **LOWER THAMES CROSSING**
DESIGN REFINEMENT CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 16c



↑
South
Ockendon

↓
North
Ockendon

M25
↓

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Sheet 17

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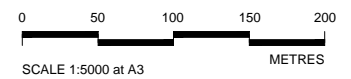
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Sheet 17a
Sheet 17

Sheet 17
Sheet 18b

Sheet 17
Sheet 18b

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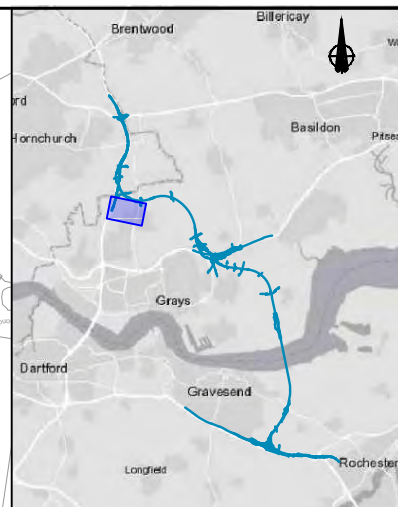
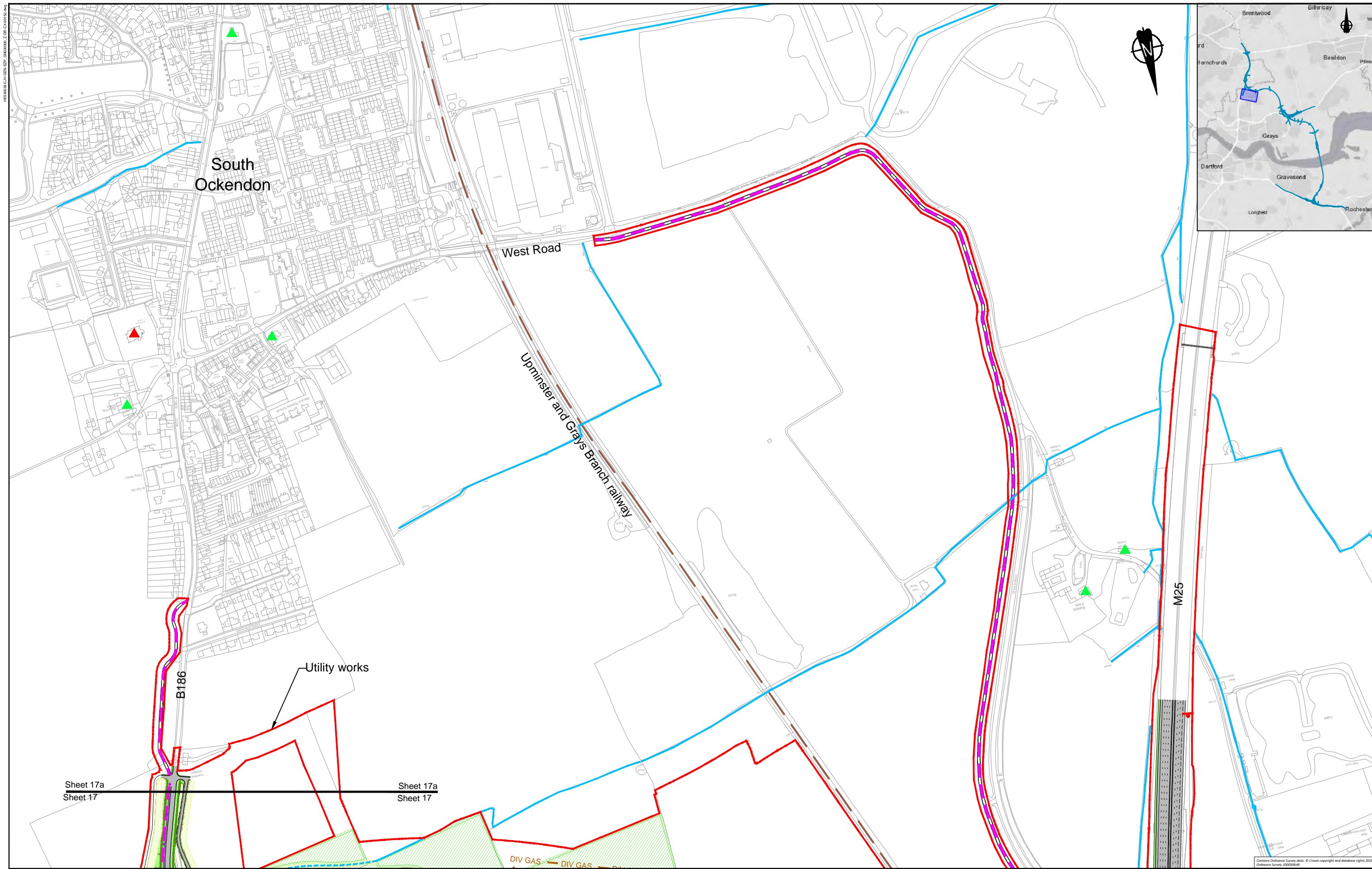
Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 17

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Sheet 17a
Sheet 17

Sheet 17a
Sheet 17

Utility works

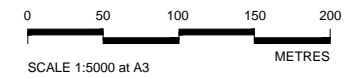
B186

West Road

Upminster and Grays Branch railway

M25

DIV GAS



Client

PROPOSALS FOR CONSULTATION

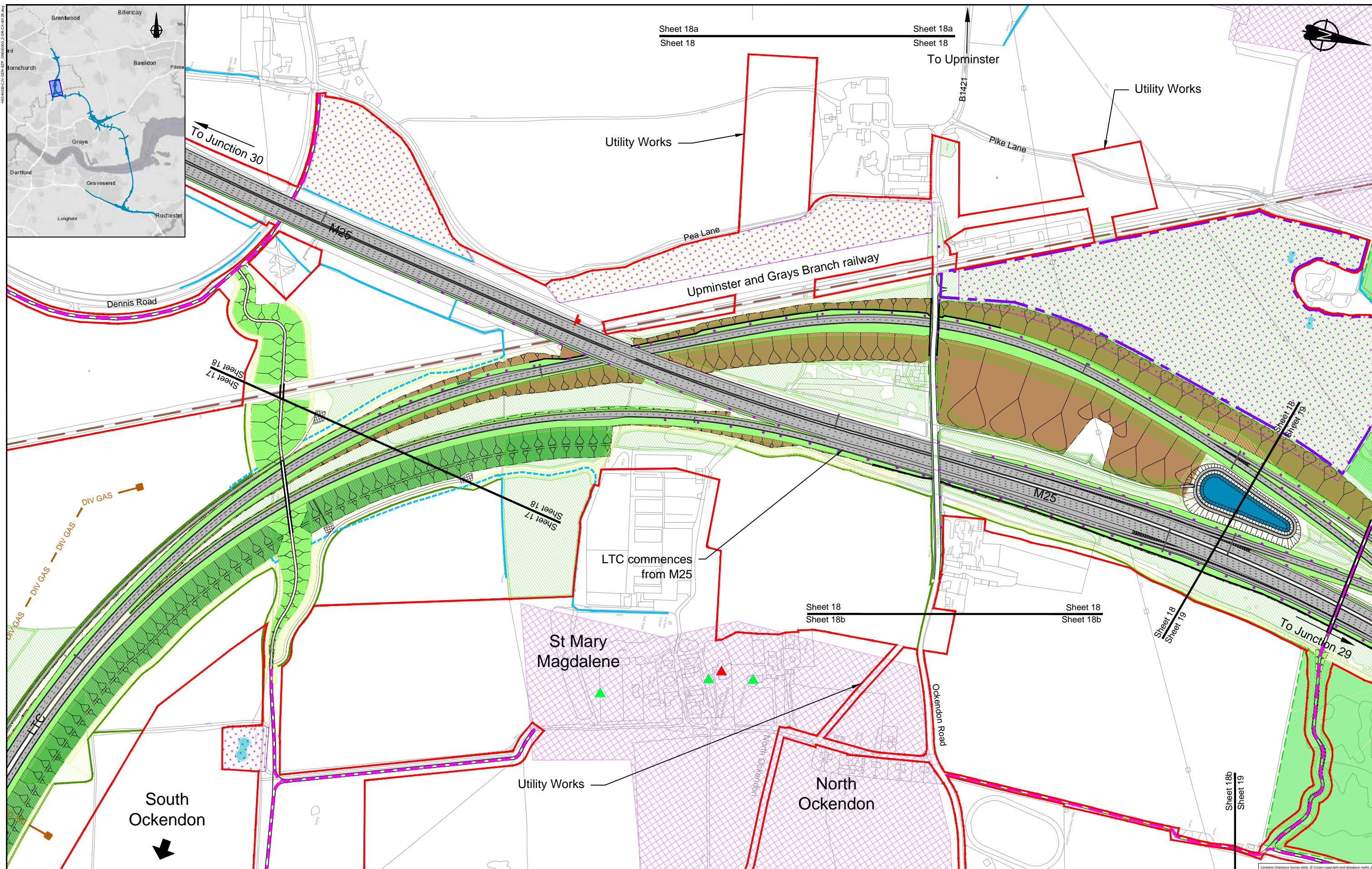
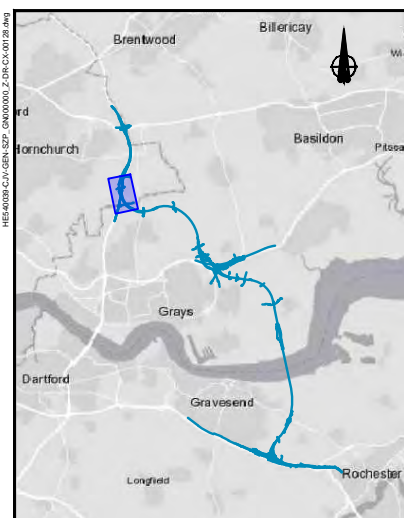
Project

**LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION**

Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 17a**

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Sheet 18a
Sheet 18

Sheet 18a
Sheet 18

To Upminster

Utility Works

Utility Works

Upminster and Grays Branch railway

To Junction 30

M25

Pea Lane

Pike Lane

Dennis Road

Sheet 17
Sheet 18

Sheet 17
Sheet 18

LTC commences
from M25

Sheet 18
Sheet 18b

Sheet 18
Sheet 18b

Sheet 18
Sheet 19

Sheet 18
Sheet 19

To Junction 29

M25

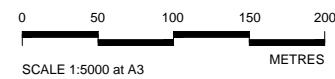
St Mary
Magdalene

Ockendon
Road

North
Ockendon

Utility Works

South
Ockendon



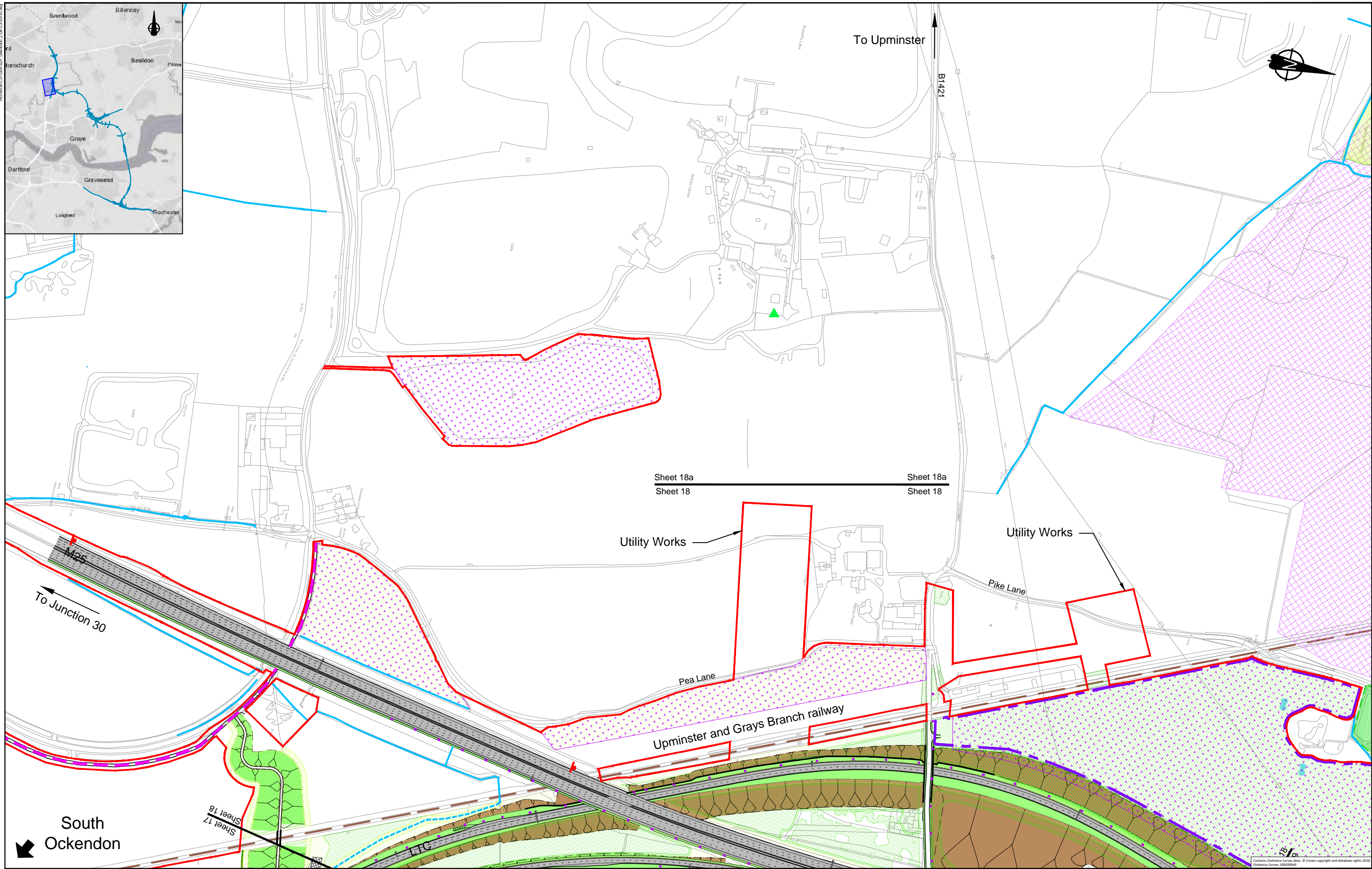
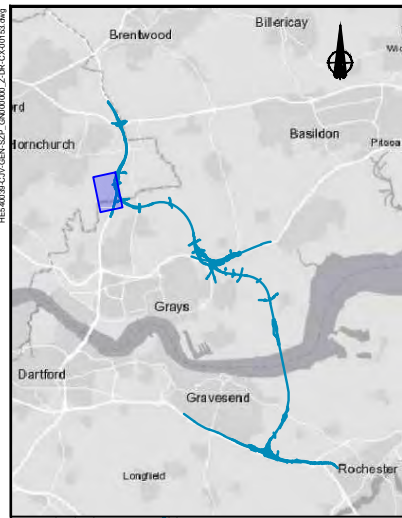
Client

**PROPOSALS FOR
CONSULTATION**

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 18**

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Sheet 18a
Sheet 18

To Junction 30

To Upminster

Utility Works

Utility Works

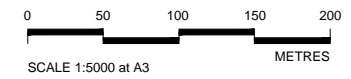
Pike Lane

Pea Lane

Upminster and Grays Branch railway

South Ockendon

Sheet 17



SCALE 1:5000 at A3 METRES

| | |
|--|---|
| | Project LOWER THAMES CROSSING DESIGN REFINEMENT CONSULTATION |
| | Drawing title GENERAL ARRANGEMENT PLAN |
| | SHEET 18a |

PROPOSALS FOR CONSULTATION

Client

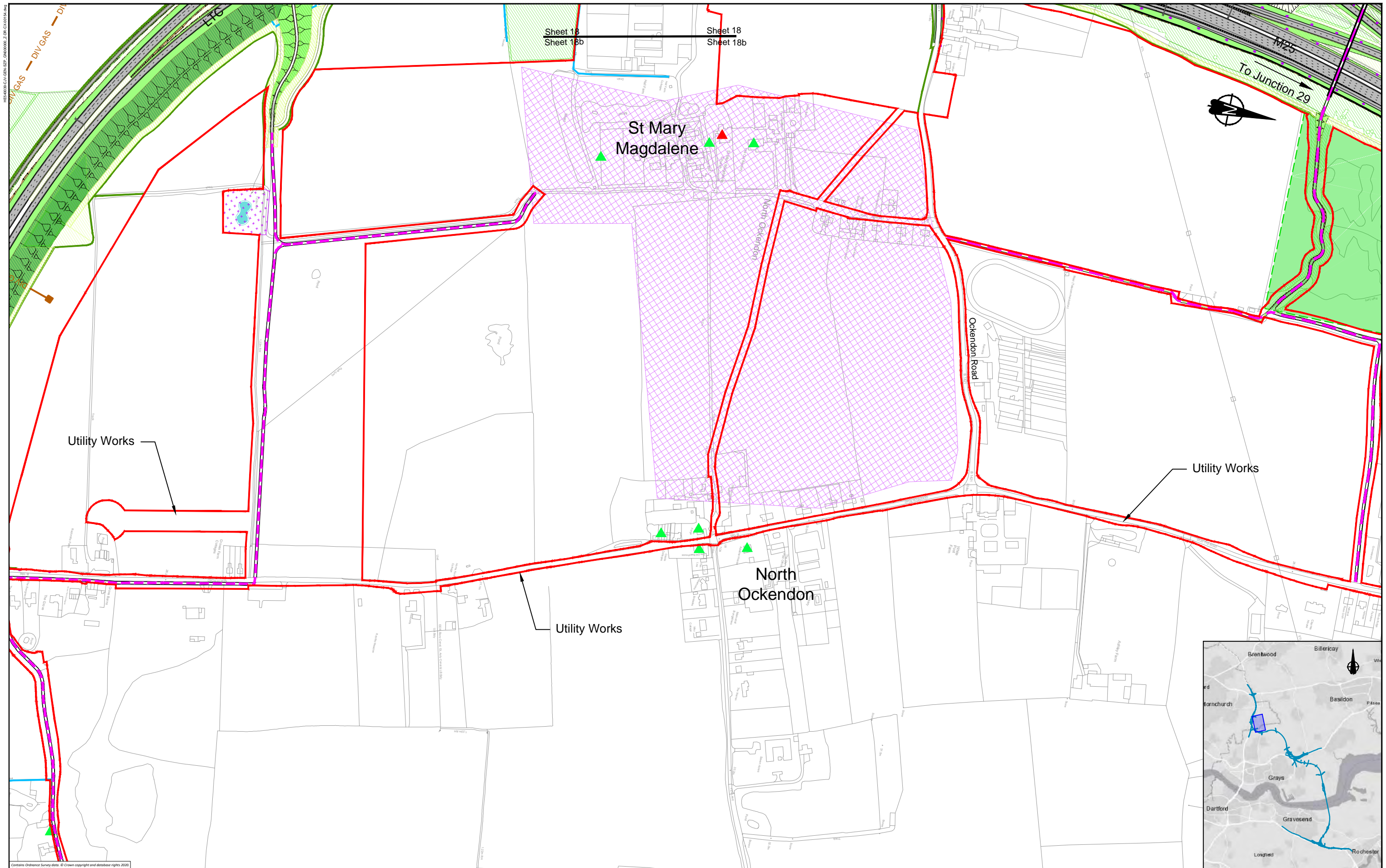
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DESIGN REFINEMENT CONSULTATION

Drawing title

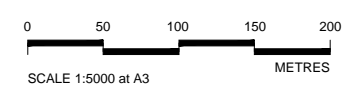
GENERAL ARRANGEMENT PLAN

SHEET 18a

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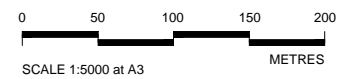
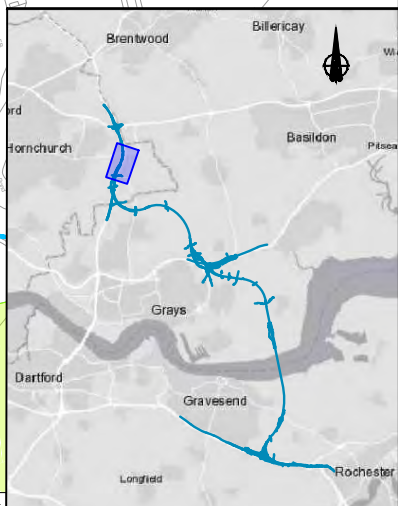
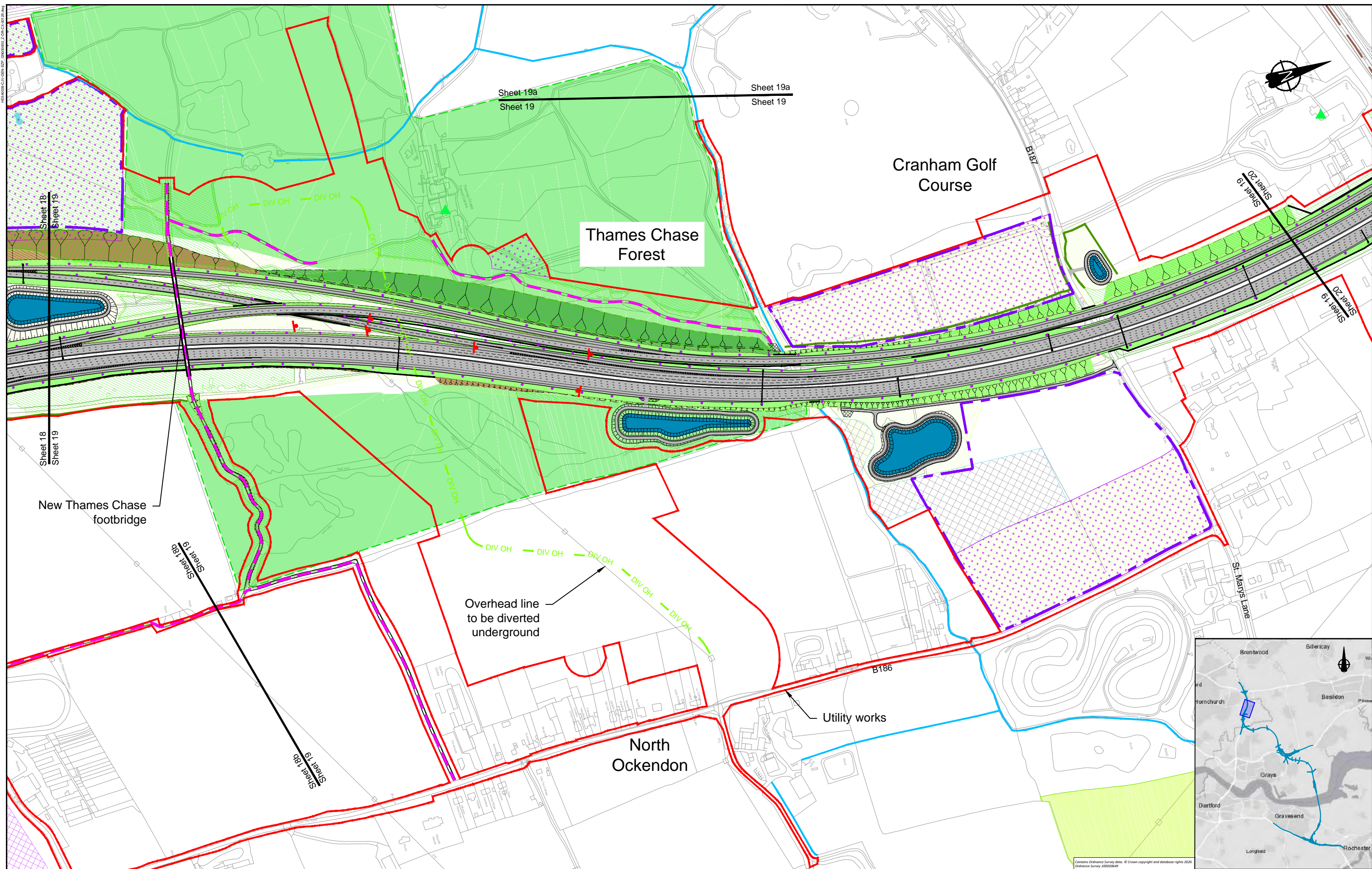
Client

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Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 18b



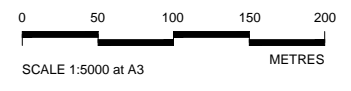
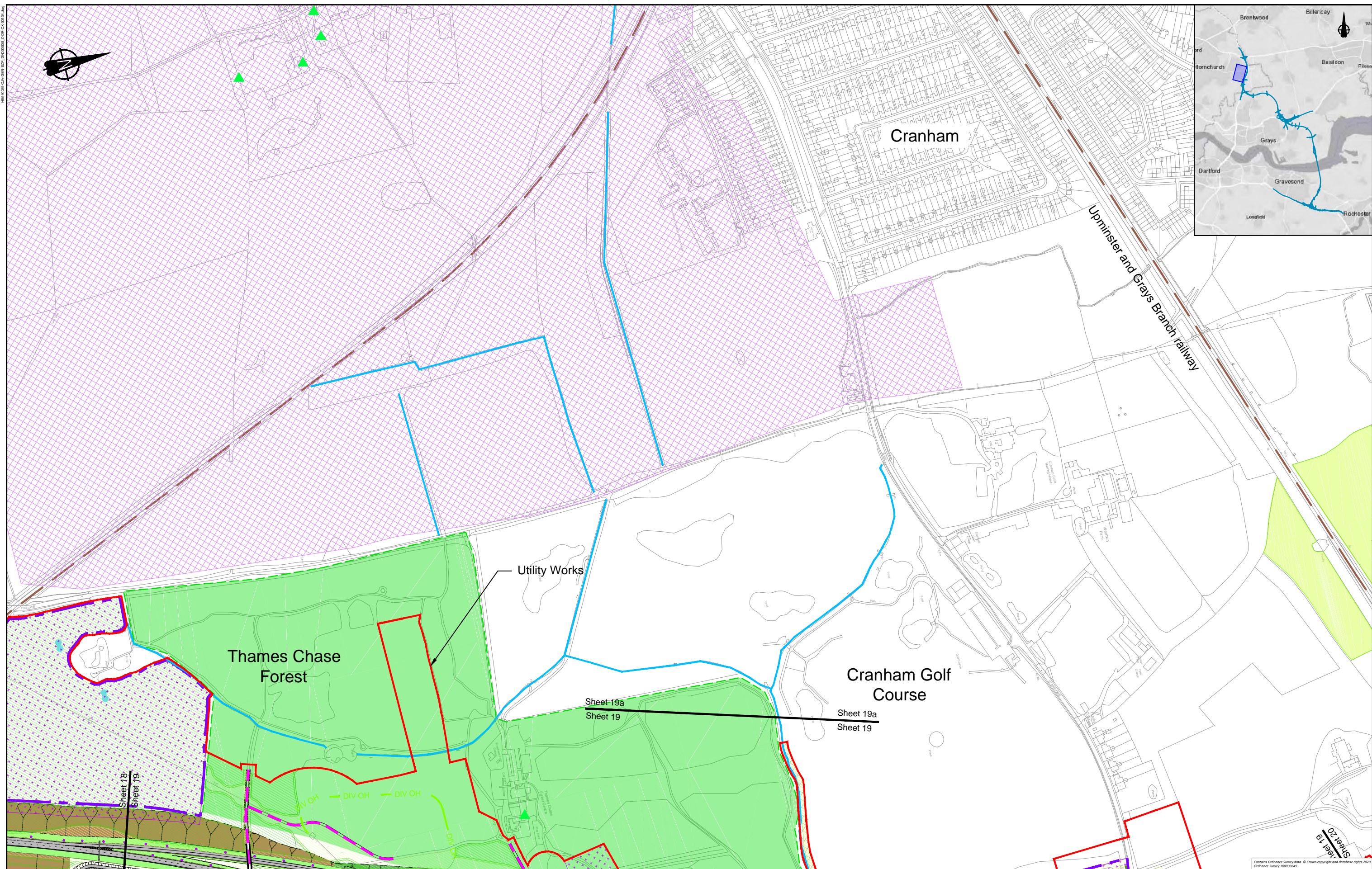


Client
highways england

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Project
LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 19



Client

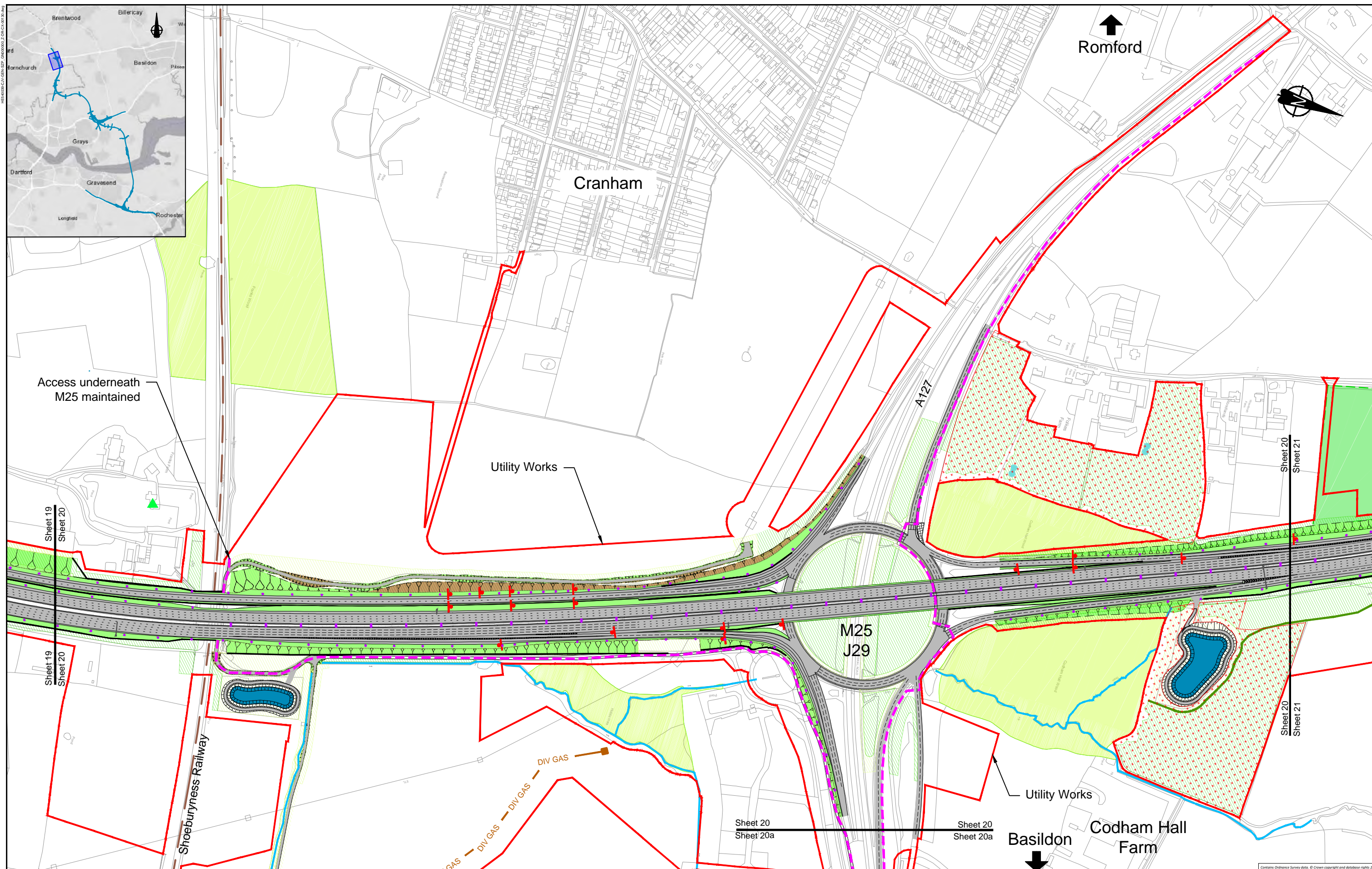
PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN
SHEET 19a

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Romford

Cranham

Access underneath M25 maintained

Utility Works

M25 J29

A127

Shoeburyness Railway

Utility Works

Basildon
Codham Hall Farm

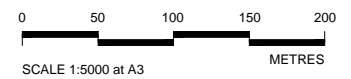
Sheet 19
Sheet 20

Sheet 20
Sheet 21

Sheet 20
Sheet 21

Sheet 20
Sheet 20a

Sheet 20
Sheet 20a



Client

PROPOSALS FOR CONSULTATION

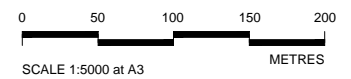
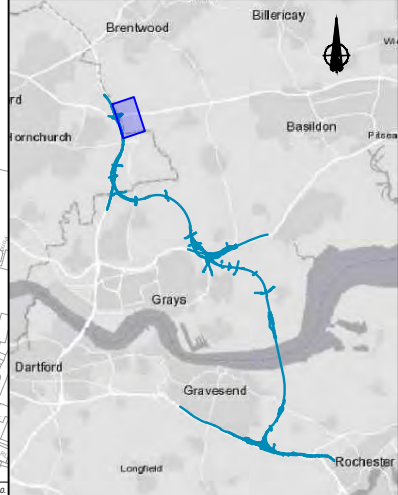
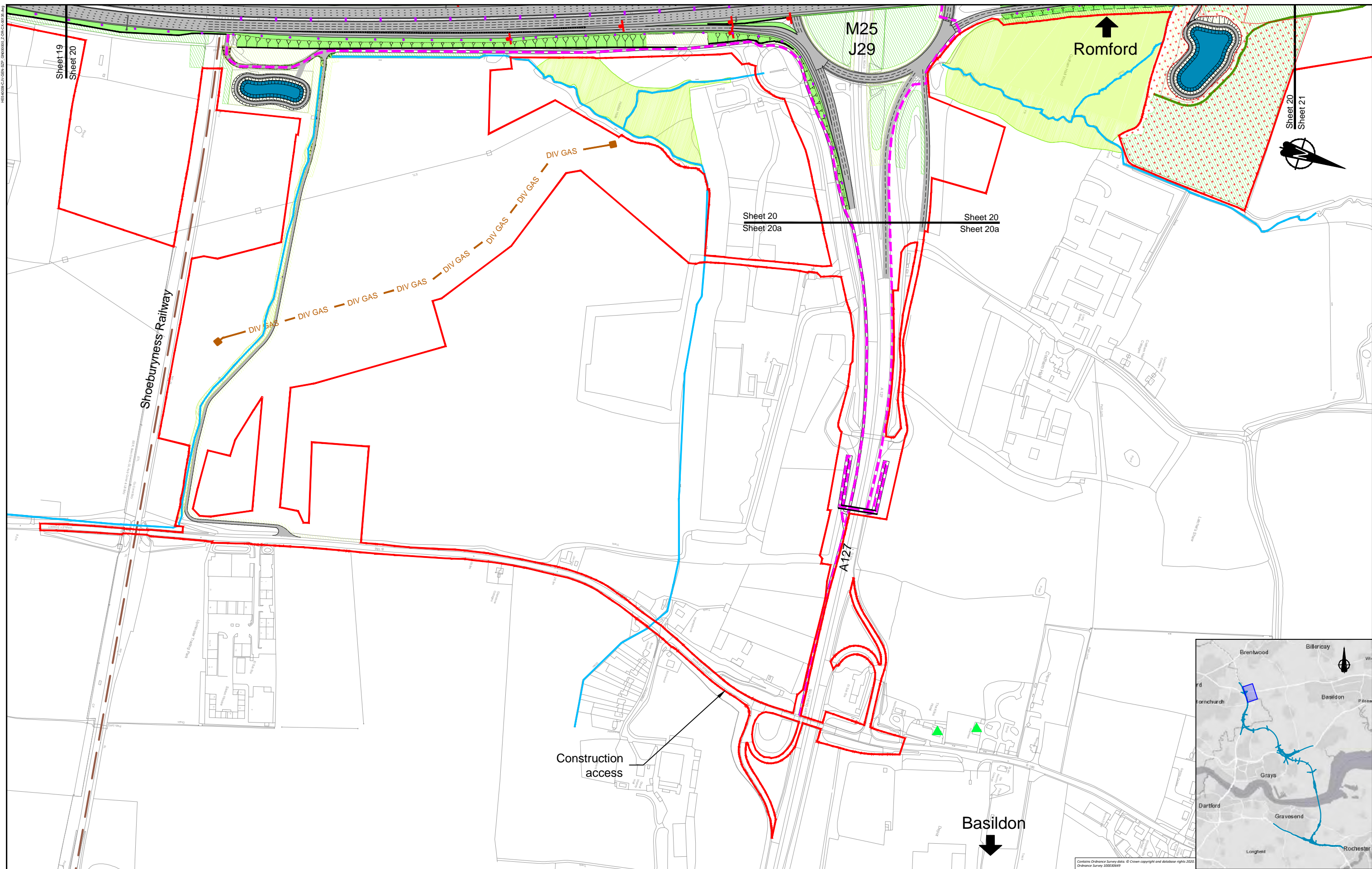
Project

LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN
SHEET 20

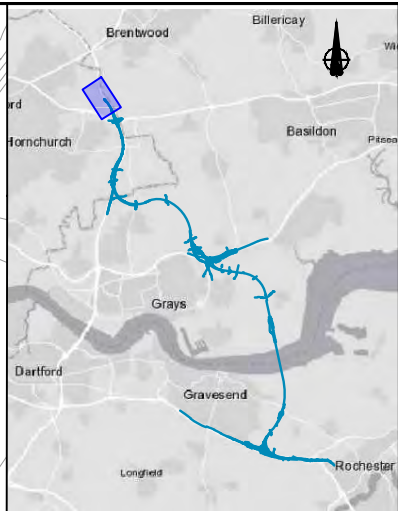
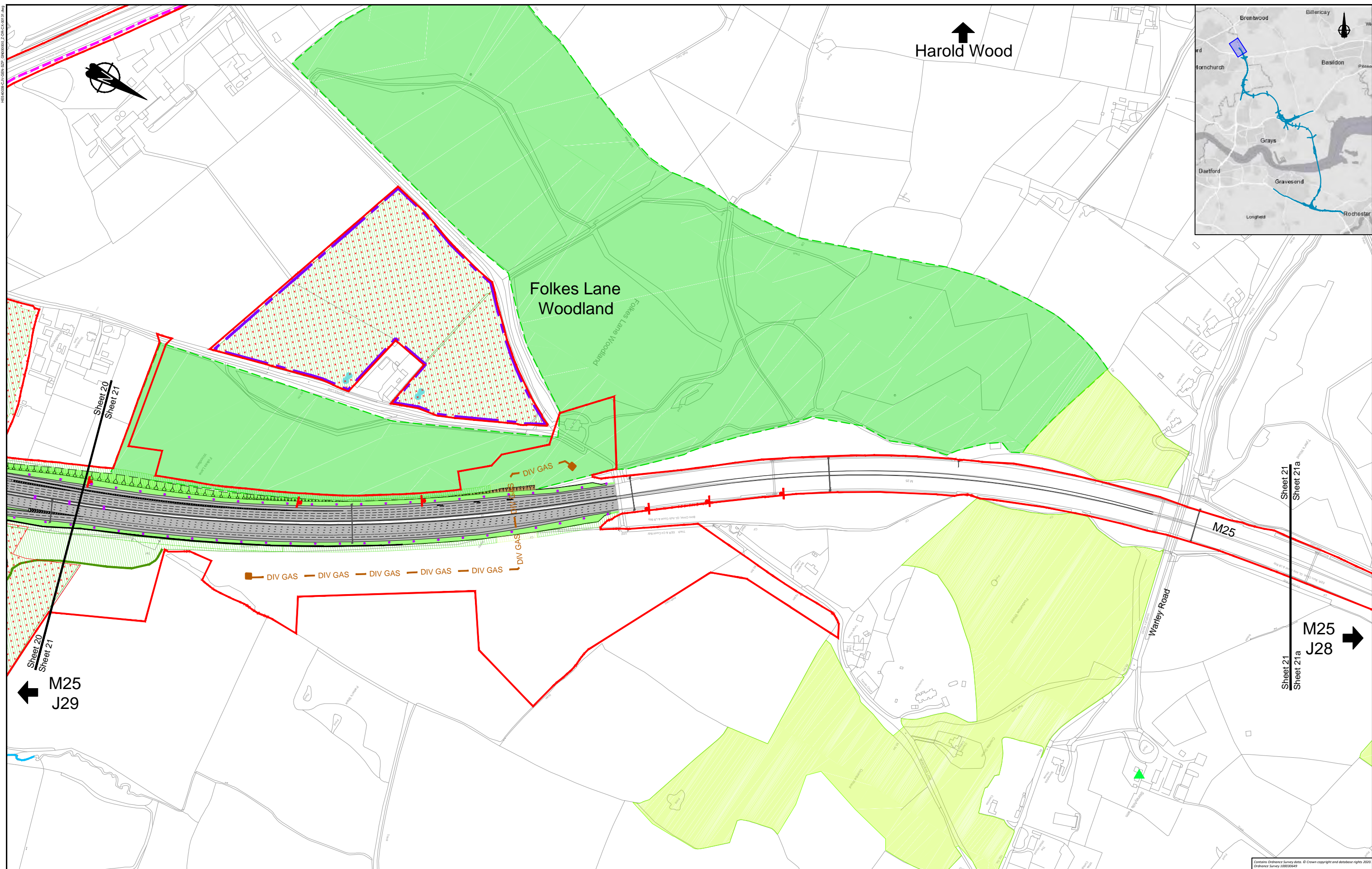
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 DESIGN REFINEMENT CONSULTATION
 Drawing title
GENERAL ARRANGEMENT PLAN
 SHEET 20a



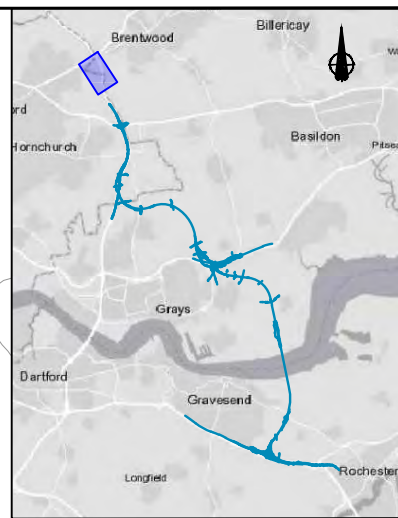
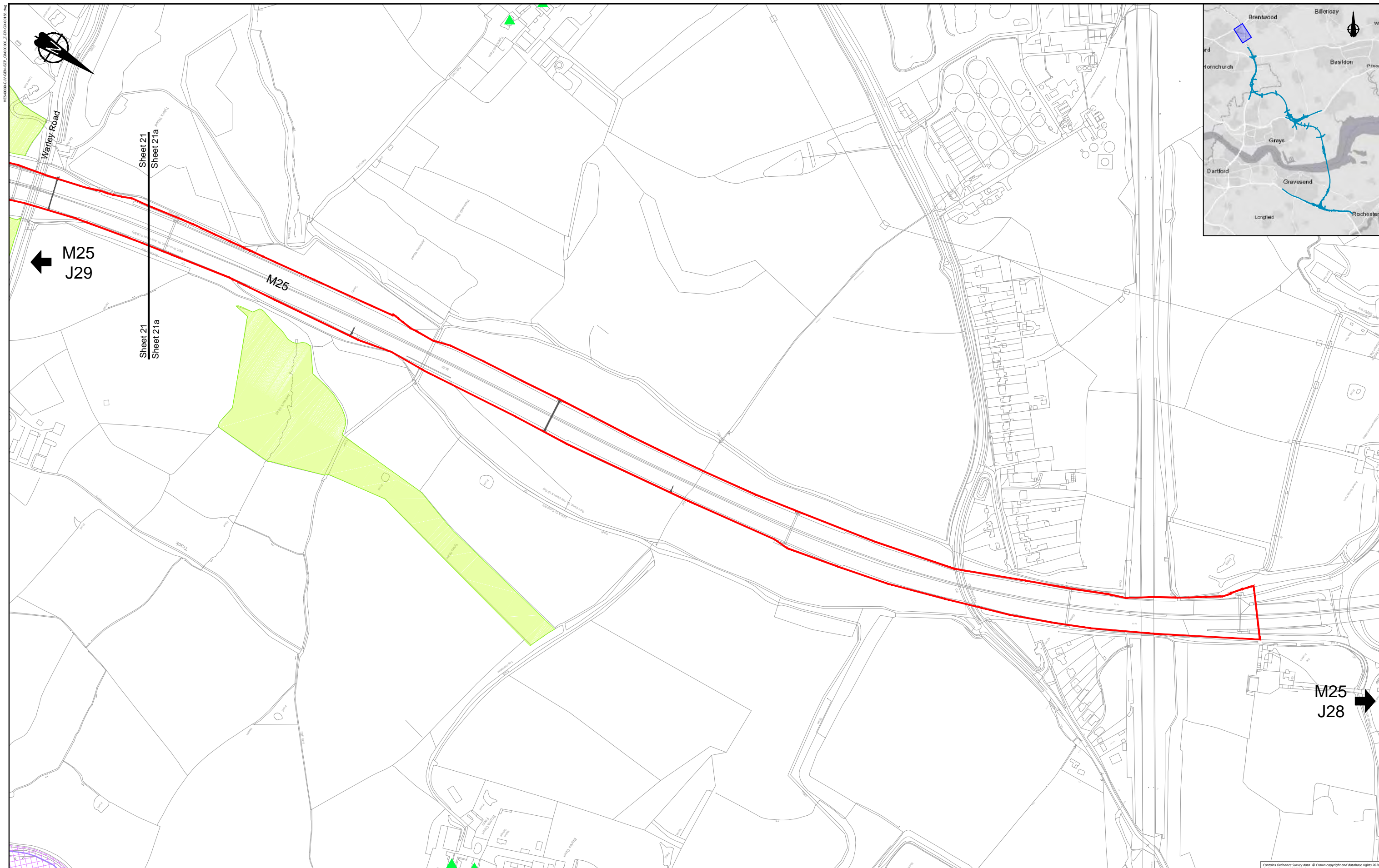
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SCALE 1:5000 at A3 METRES

Client
**highways
england**

**PROPOSALS FOR
CONSULTATION**

Project
LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 21**



14549312/1/EN/027_000/000_2/01_C/0010/04

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SCALE 1:5000 at A3 METRES

Client

PROPOSALS FOR CONSULTATION

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Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 21a

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