

Lower Thames Crossing

2.13 Structures Plans Volume A (Key Plan and Sheets 1 to 11) (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/2.13

VERSION: 2.0

Revision history

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

Lower Thames Crossing

2.13 Structures Plans

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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 Structures Plans is to show the design and location of key features of the Project: namely, proposed new and modified bridges, the tunnel structures (south tunnel portal, north tunnel portal, bored tunnels and the ground protection tunnel), generic details of field bridges and bat barns and the three different types of gantries.
- 1.1.5 The set includes references to the numbered works, which can be found in the Works Plans (Application Document 2.6) and in Schedule 1 (Application Document 3.1). The work number for each structure is shown in the structures location key plans (sheets 1 to 11) and on each corresponding sheet.
- 1.1.6 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).
- 1.1.7 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).
- 1.1.8 The key plan and the structures location plans (sheets 1 to 11) use a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project, or the section of the Project, can be represented on a single sheet plan. The scales in the key plans vary from 1:50,000 to 1:5,000. The remaining sheets in the set containing the plan and profiles and the cross sections have

been prepared at various scales, according to the level of detail required, varying between 1:2,000 and 1:25.

- 1.1.9 The Applicant has prepared a tailored legend for the plans showing the proposed bridges arrangement as some elements of the design vary between the different type of structures. However, the same design features are shown where relevant: namely, the bridge abutments, the piers, Network Rail boundary, flood levels, the finished road level, and, for the modified bridges, the existing part of the section.
- 1.1.10 The Structures 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)).
- 1.1.11 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 the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1).
- 1.1.12 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 two volumes: volume A contains the key plans and volume B the subsequent sheets 12 to 79.
- 1.1.13 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
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN	TR010032/APP/2.13	P02
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 1	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 2	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 3	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 5	TR010032/APP/2.13	P02
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STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 7	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 8	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 9	TR010032/APP/2.13	P01

Document Title	Document Number	Revision
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 10	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 11	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) SOUTH TUNNEL PORTAL SHEET 12	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) SOUTH TUNNEL PORTAL SHEET 13	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) SOUTH TUNNEL PORTAL SHEET 14	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) NORTH TUNNEL PORTAL SHEET 15	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) GROUND PROTECTION TUNNEL SHEET 19	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 1D SHEET 20	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 2B SHEET 22	TR010032/APP/2.13	P01

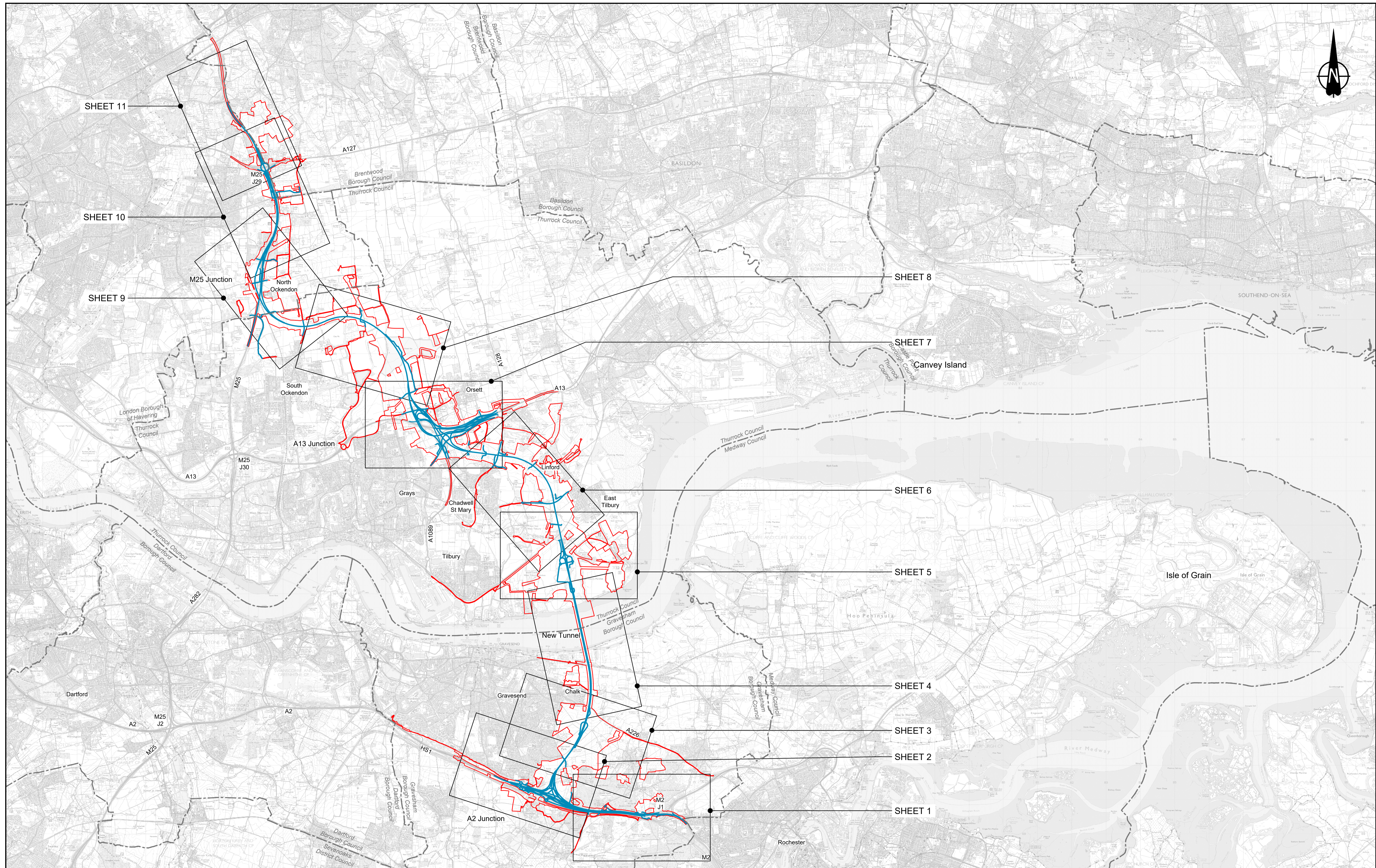
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STRUCTURES PLANS 5(2)(o) WORK NO. 2A SHEET 23	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 2D SHEET 24	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 3B SHEET 26	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 2G SHEET 28	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 5C SHEET 30	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(O) WORK NO. 7D SHEET 37	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 7E SHEET 39	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 7K SHEET 49	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 7L SHEET 50	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 7M SHEET 52	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 8B SHEET 54	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 8C SHEET 55	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 9M SHEET 57	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 9N SHEET 60	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 9A SHEET 61	TR010032/APP/2.13	P01

Document Title	Document Number	Revision
STRUCTURES PLANS 5(2)(o) WORK NO. 9D SHEET 62	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 9D SHEET 63	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 9D SHEET 64	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) WORK NO. 9Z SHEET 66	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) GANTRY (SUPER PORTAL TYPE) SHEET 73	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) GANTRY (PORTAL TYPE) SHEET 74	TR010032/APP/2.13	P01

Document Title	Document Number	Revision
STRUCTURES PLANS 5(2)(o) GANTRY (CANTILEVER TYPE) SHEET 75	TR010032/APP/2.13	P01
STRUCTURES PLANS 5(2)(o) WORK NO. 9Y SHEET 76	TR010032/APP/2.13	P01
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STRUCTURES PLANS 5(2)(o) TYPICAL BAT BARN SHEET 79	TR010032/APP/2.13	P01



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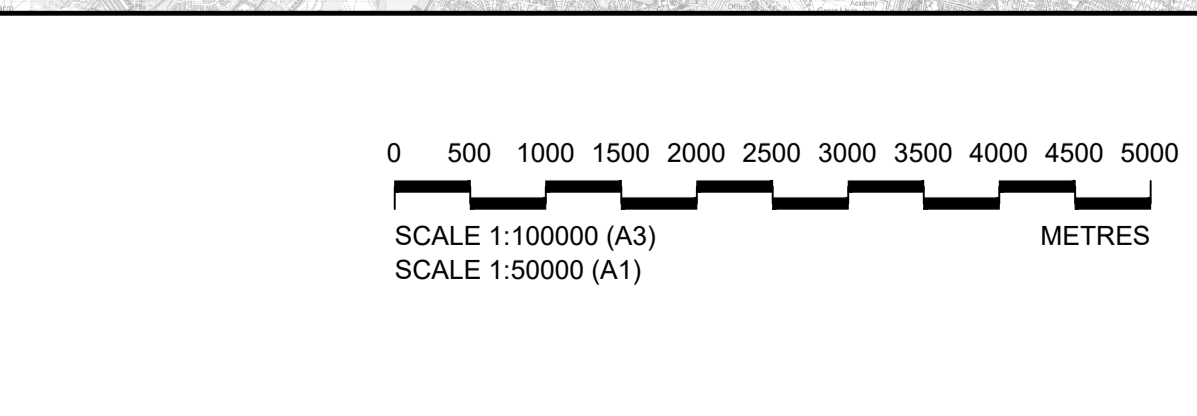
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P02	S8	24/08/2023	Deadline 3	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

NOTES:

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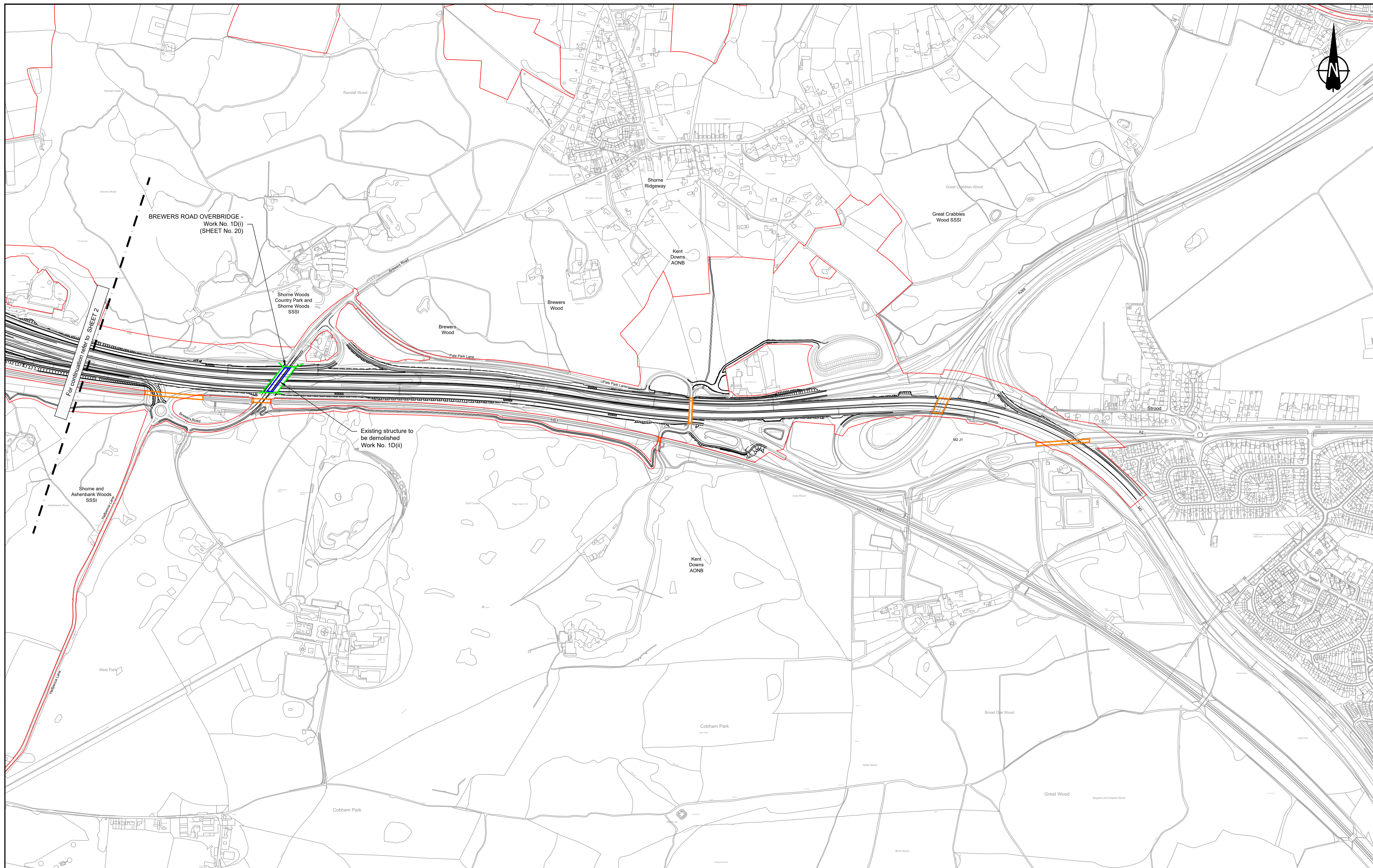
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- Proposed Route
- Order Limits
- Local Authority Boundary



Client Project **LOWER THAMES CROSSING**

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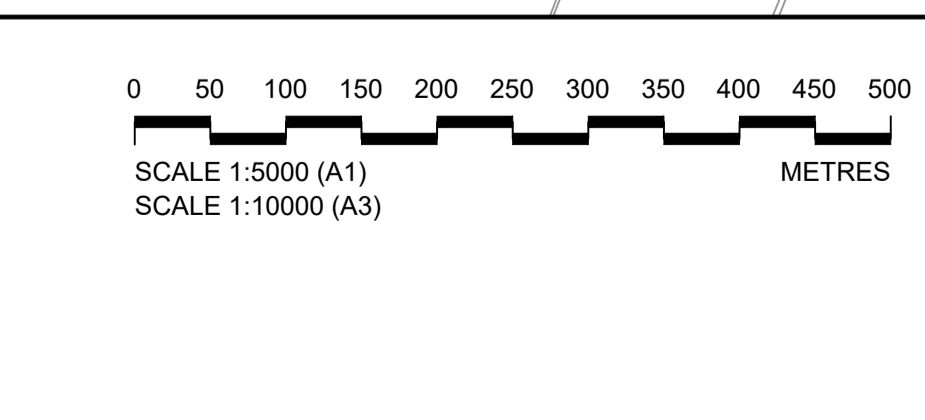
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

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LEGEND

	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits

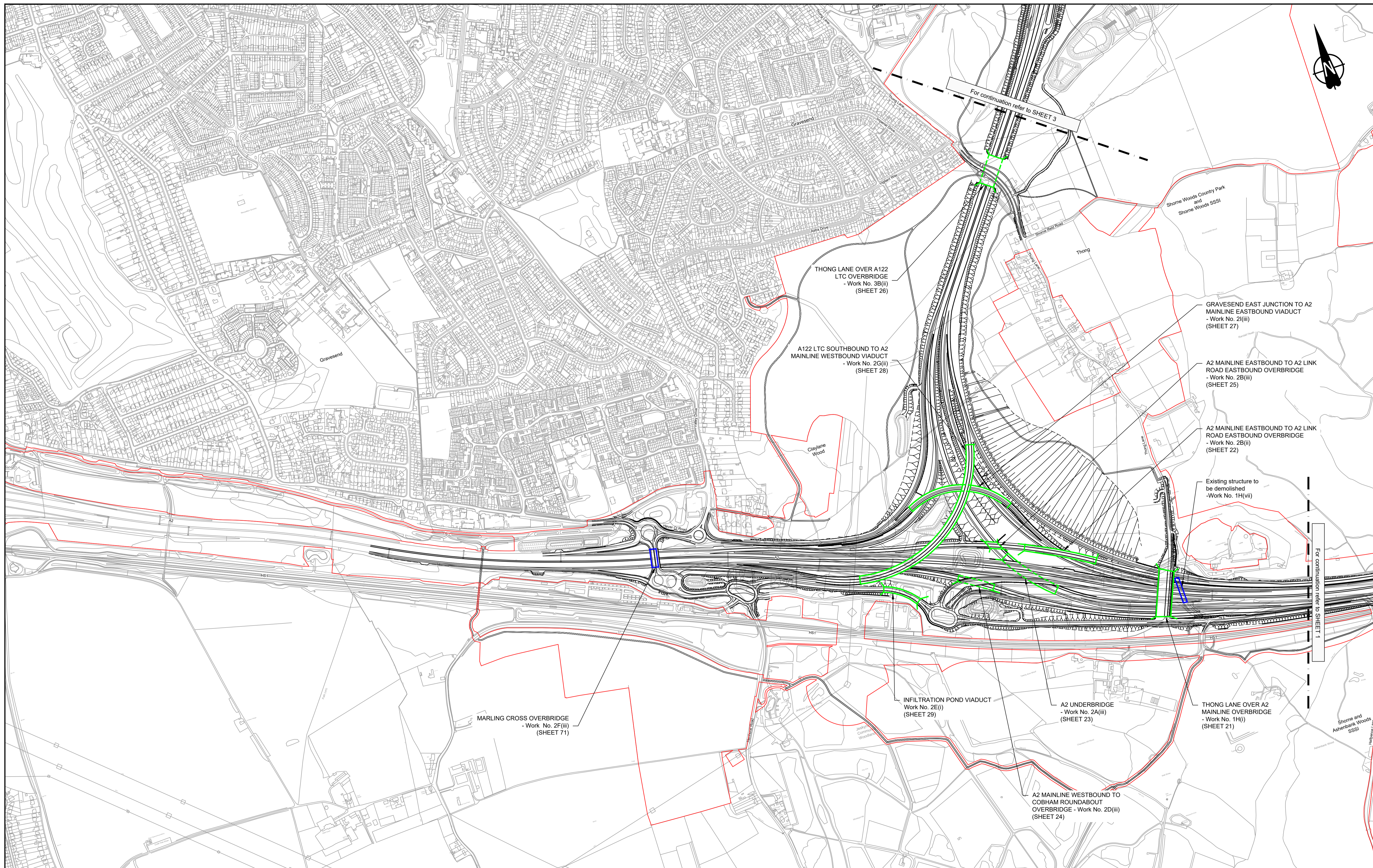


Client

Project

LOWER THAMES CROSSING

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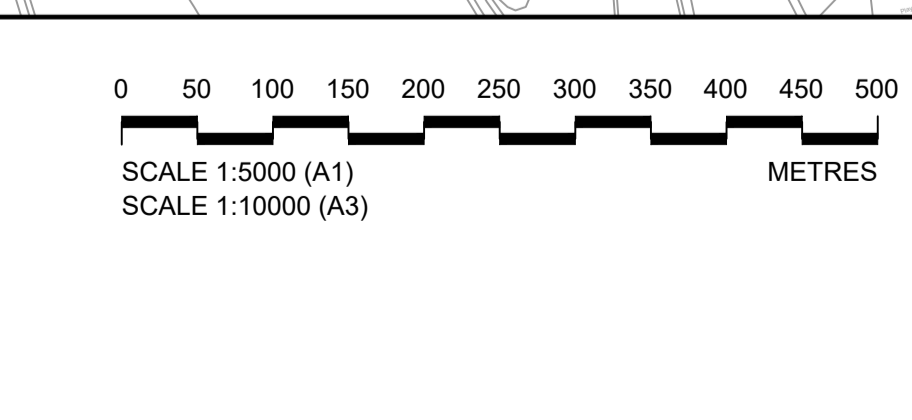
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LEGEND

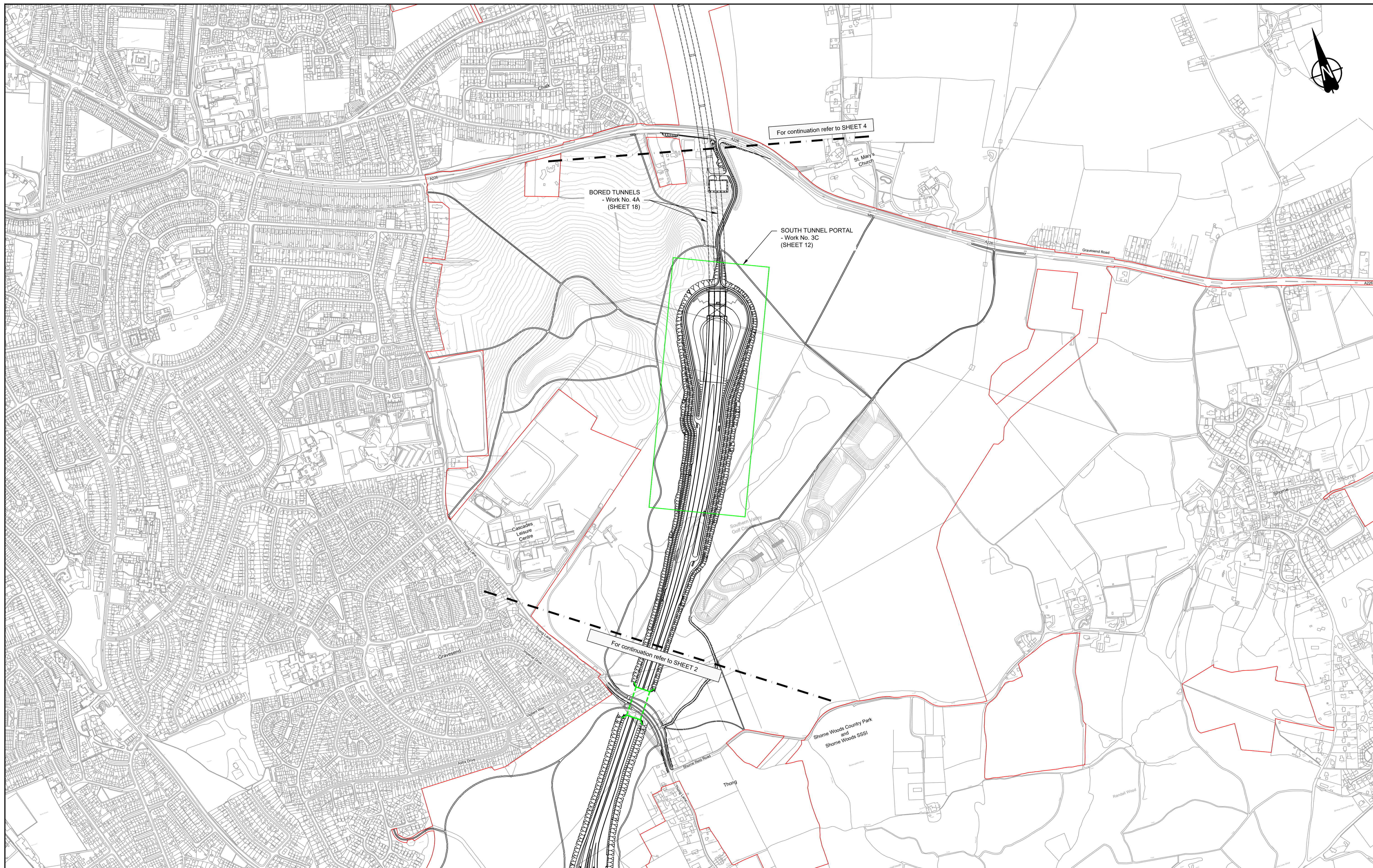
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	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



Client: **national highways**

Project: **LOWER THAMES CROSSING**

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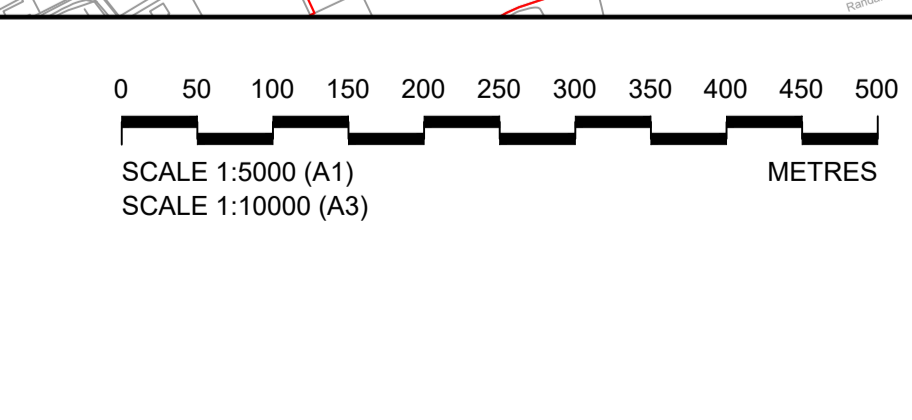
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LEGEND

	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits

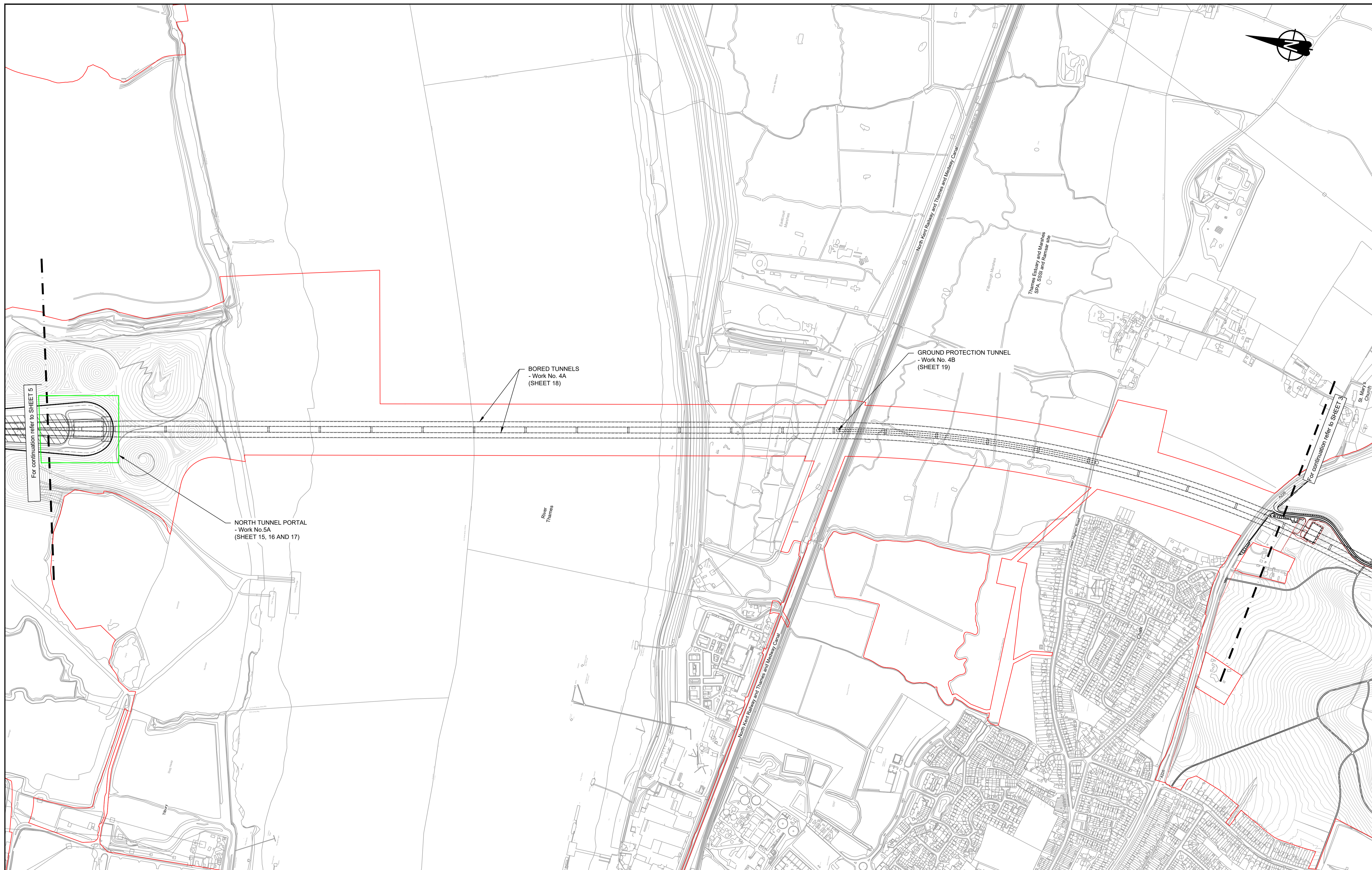


Client

Project

LOWER THAMES CROSSING

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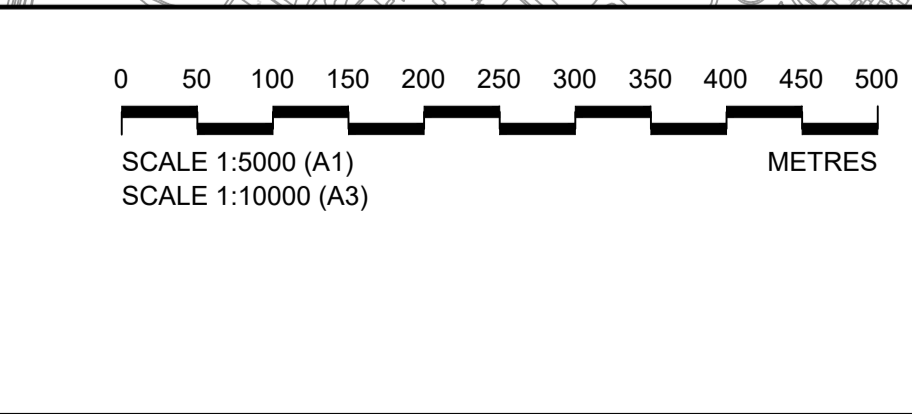
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LEGEND

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	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits

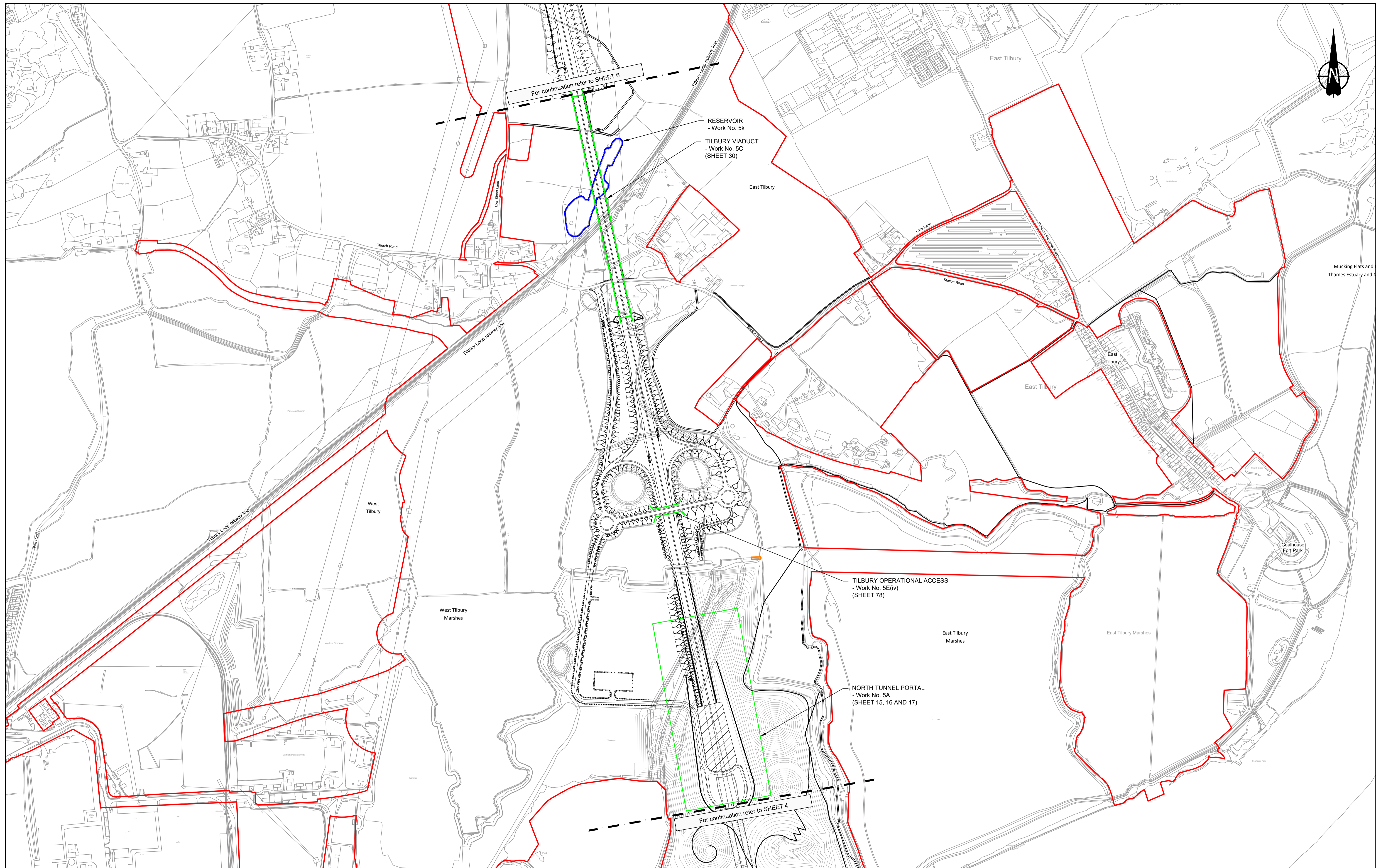


Client

Project

LOWER THAMES CROSSING

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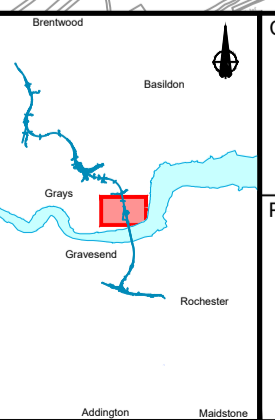
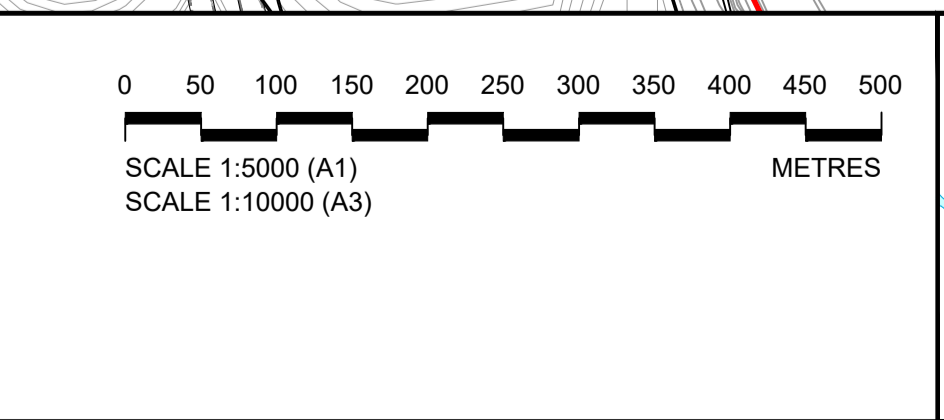
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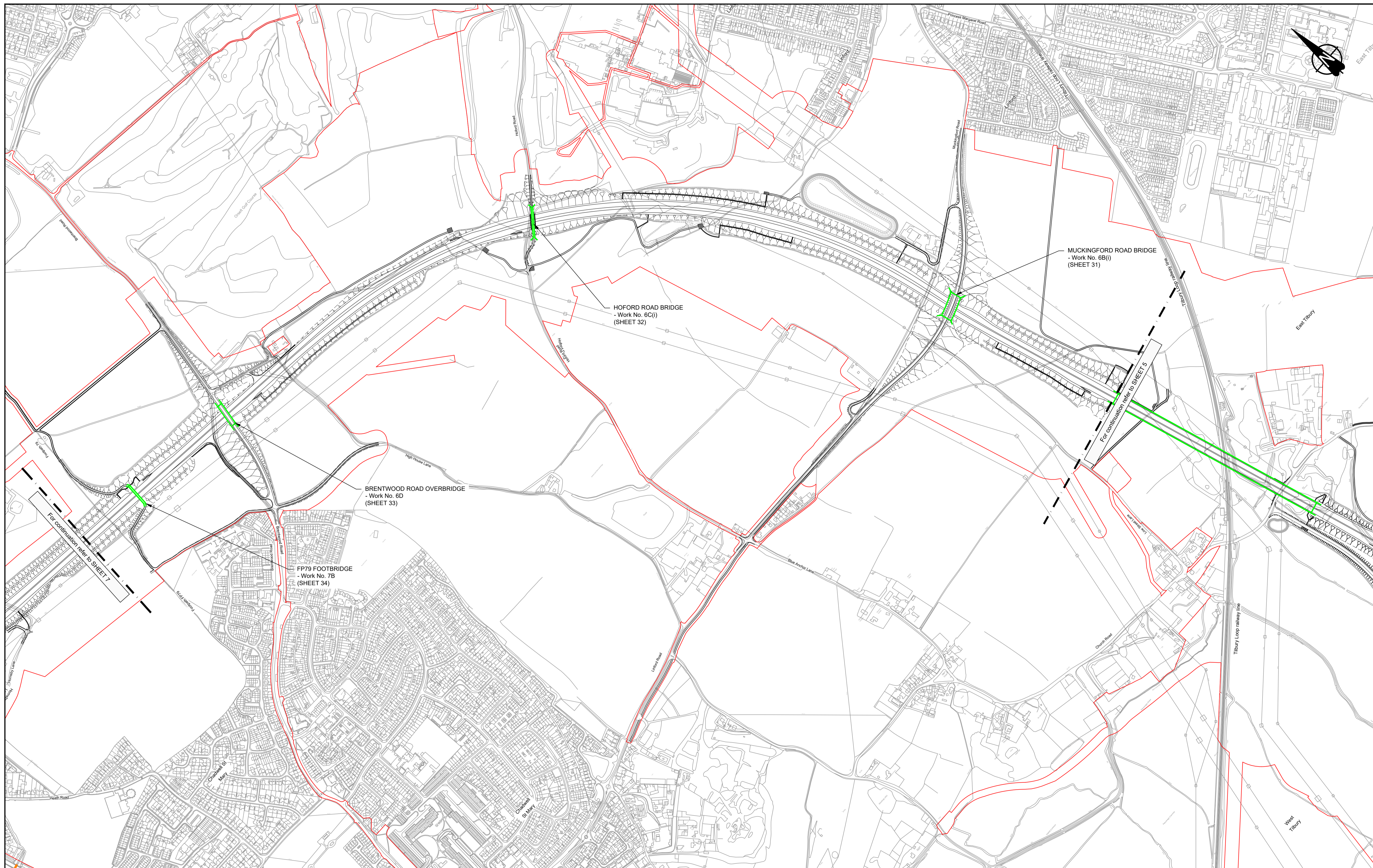
	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
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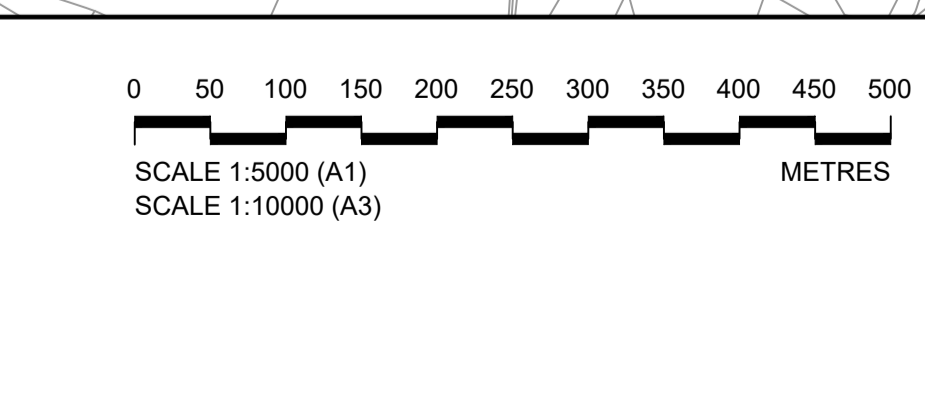
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LEGEND

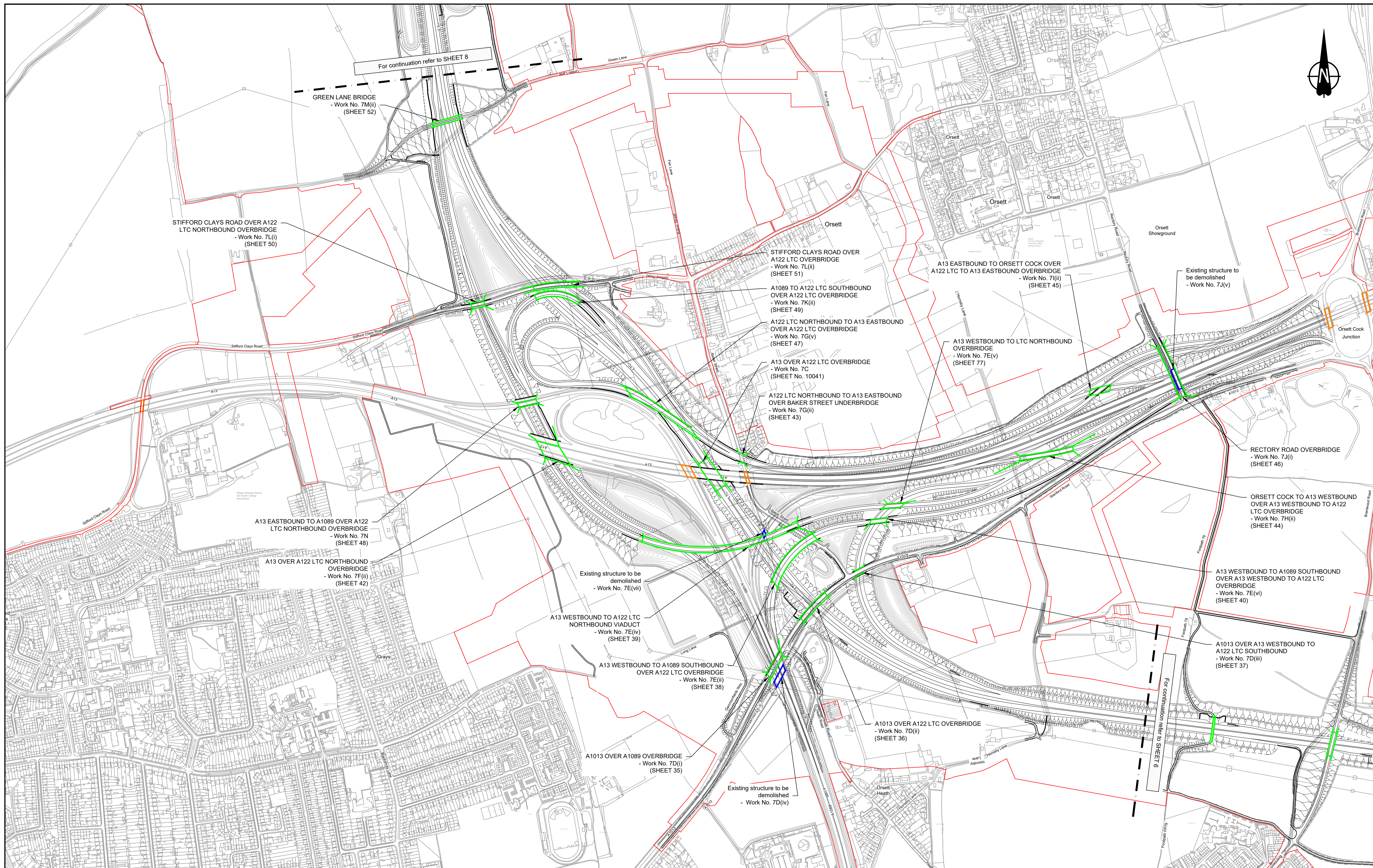
	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 6				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000_-DR-CB-10005				



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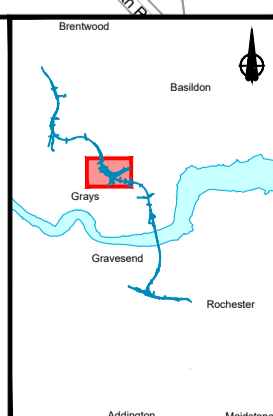
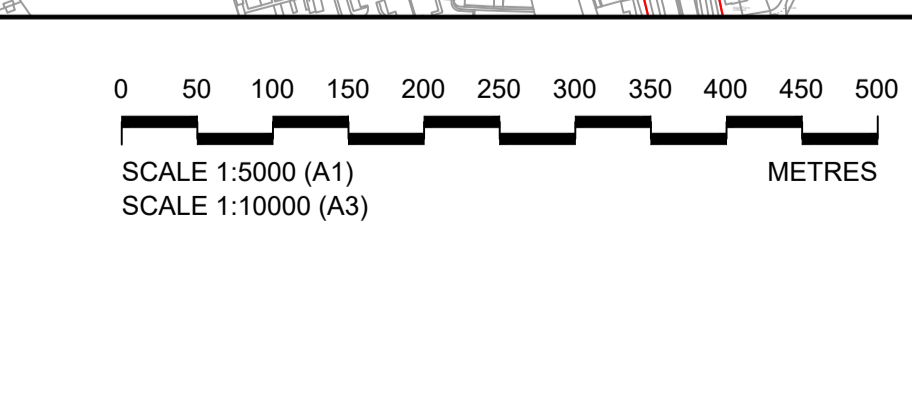
P01	S8	19/10/2022	DCO Application	PG1	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

NOTES:

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- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1), the General Arrangements Plans (application document reference TR010032/APP/2.5), the Environmental Masterplan (application document reference TR010032/APP/6.2 Fig. 2.4) and the Environmental Constraints Plan (application document reference TR010032/APP/6.2 Fig. 2.3).
- Only those structures that form part of the DCO application are referenced on these Key Plans.

LEGEND

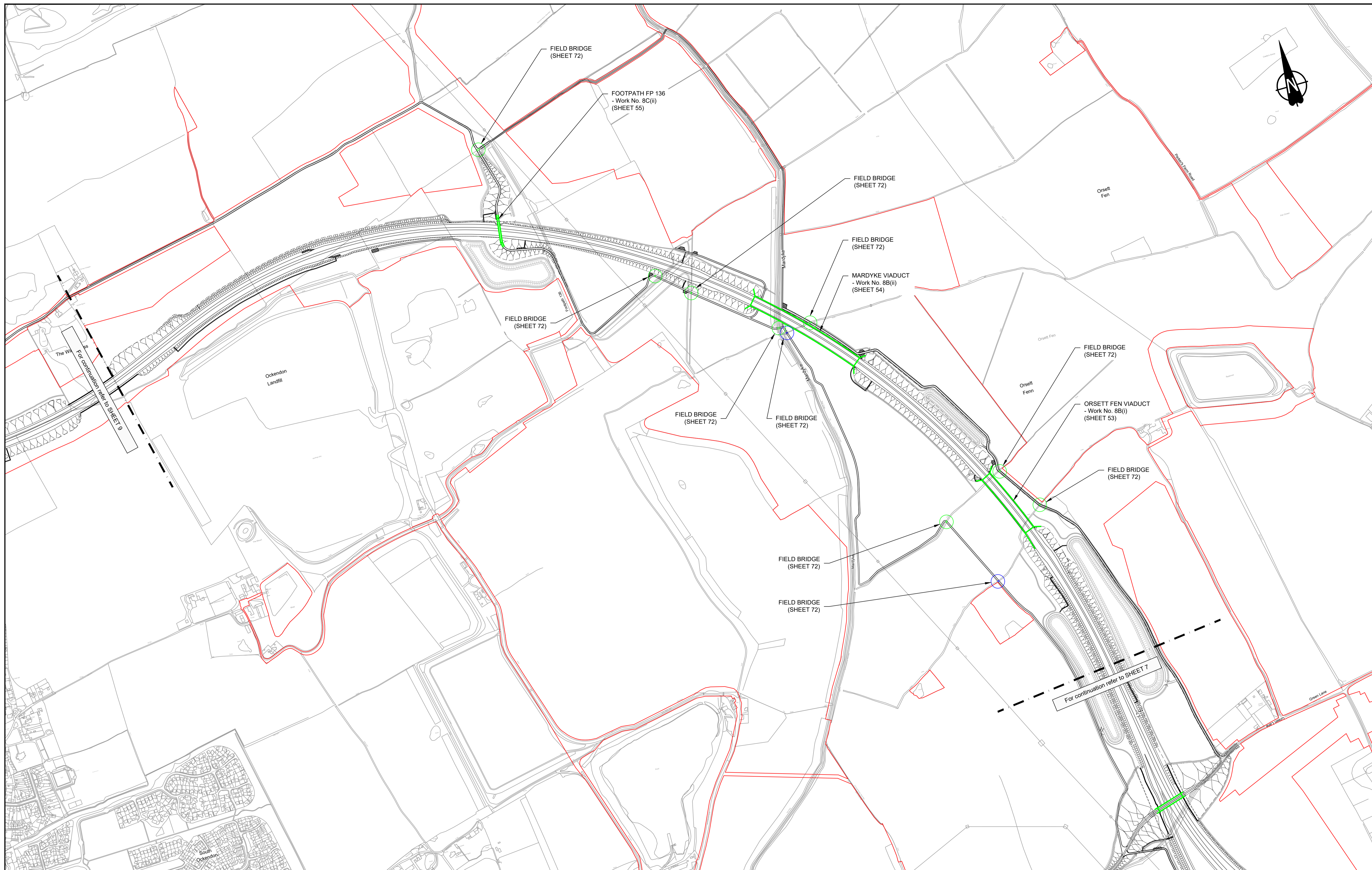
	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 7				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000_-DR-CB-10006				



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PG1 S8 19/10/2022 DCO Application PG1 BB ASB

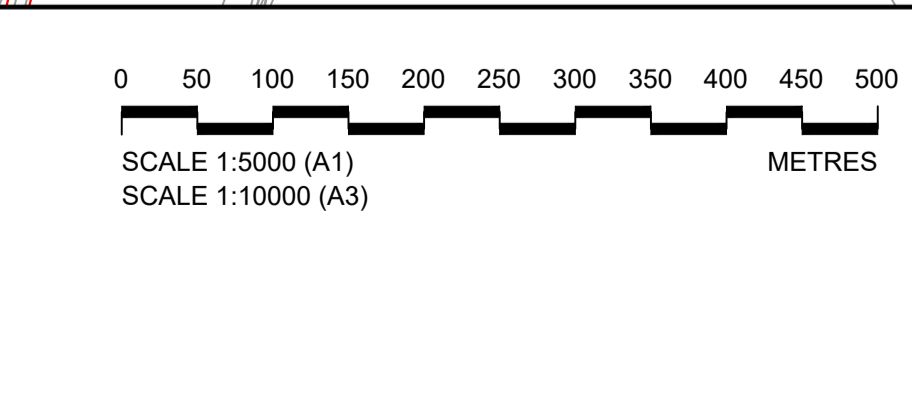
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

NOTES:

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LEGEND

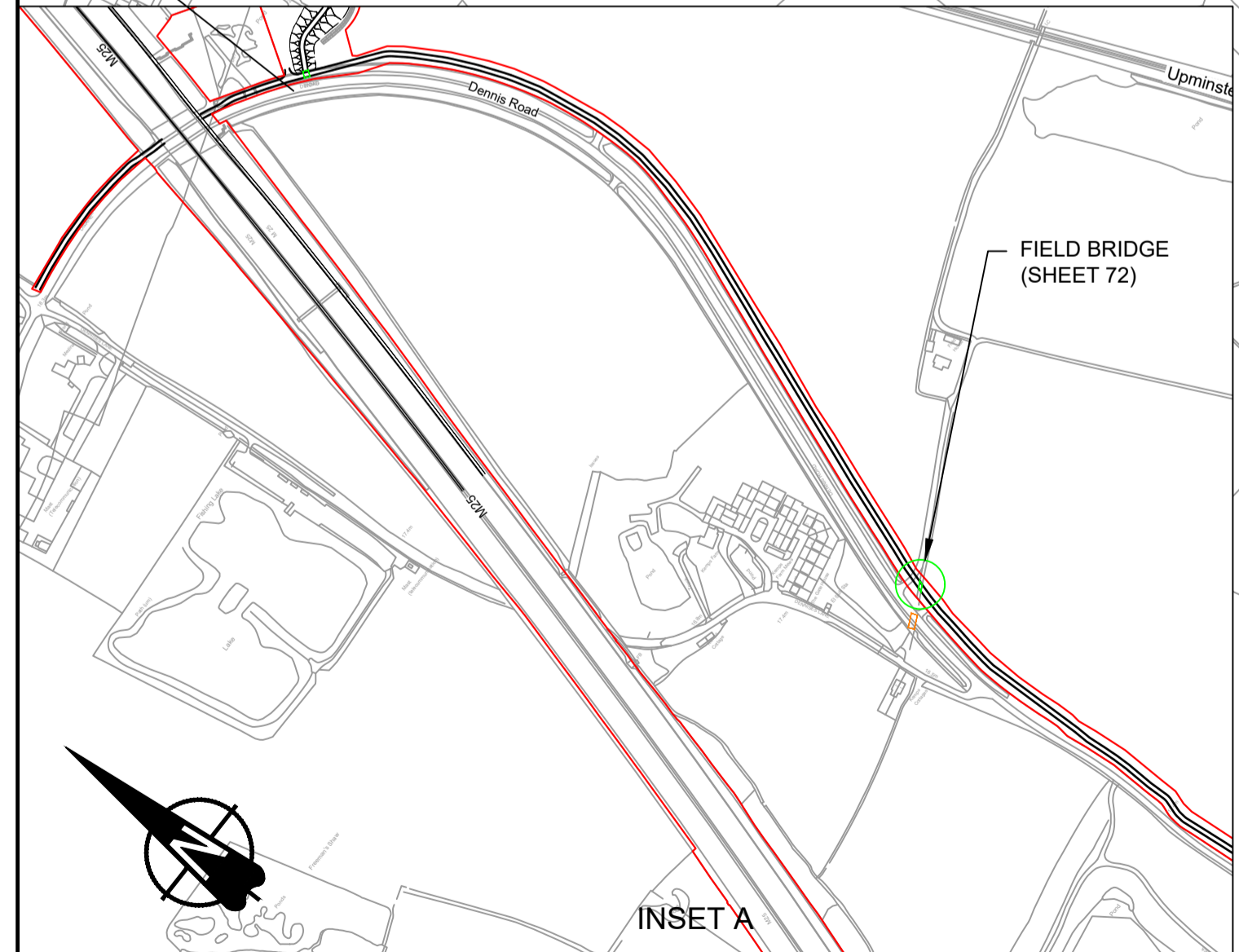
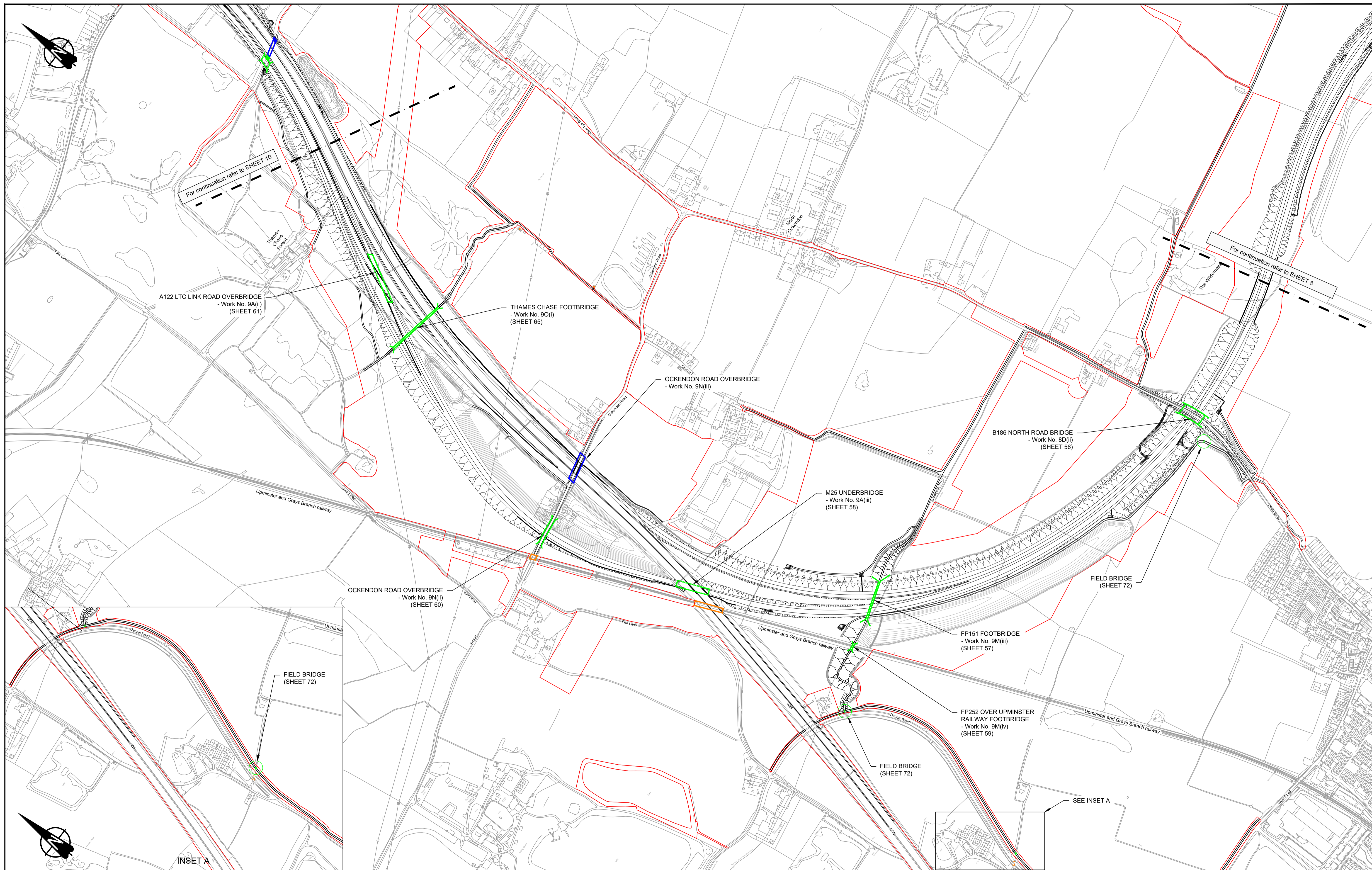
	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 8				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000_-DR-CB-10007				



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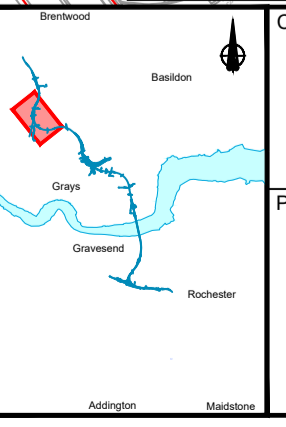
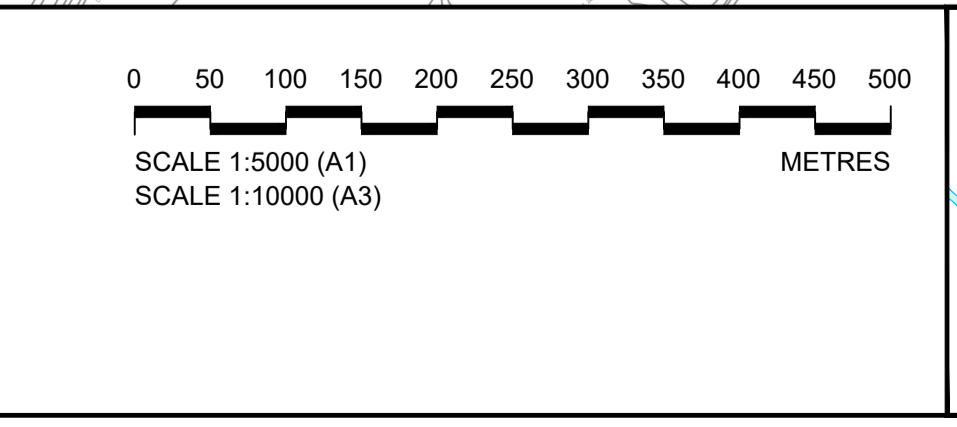
P01	S8	19/10/2022	DCO Application	PG1	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

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- Only those structures that form part of the DCO application are referenced on these Key Plans.

LEGEND

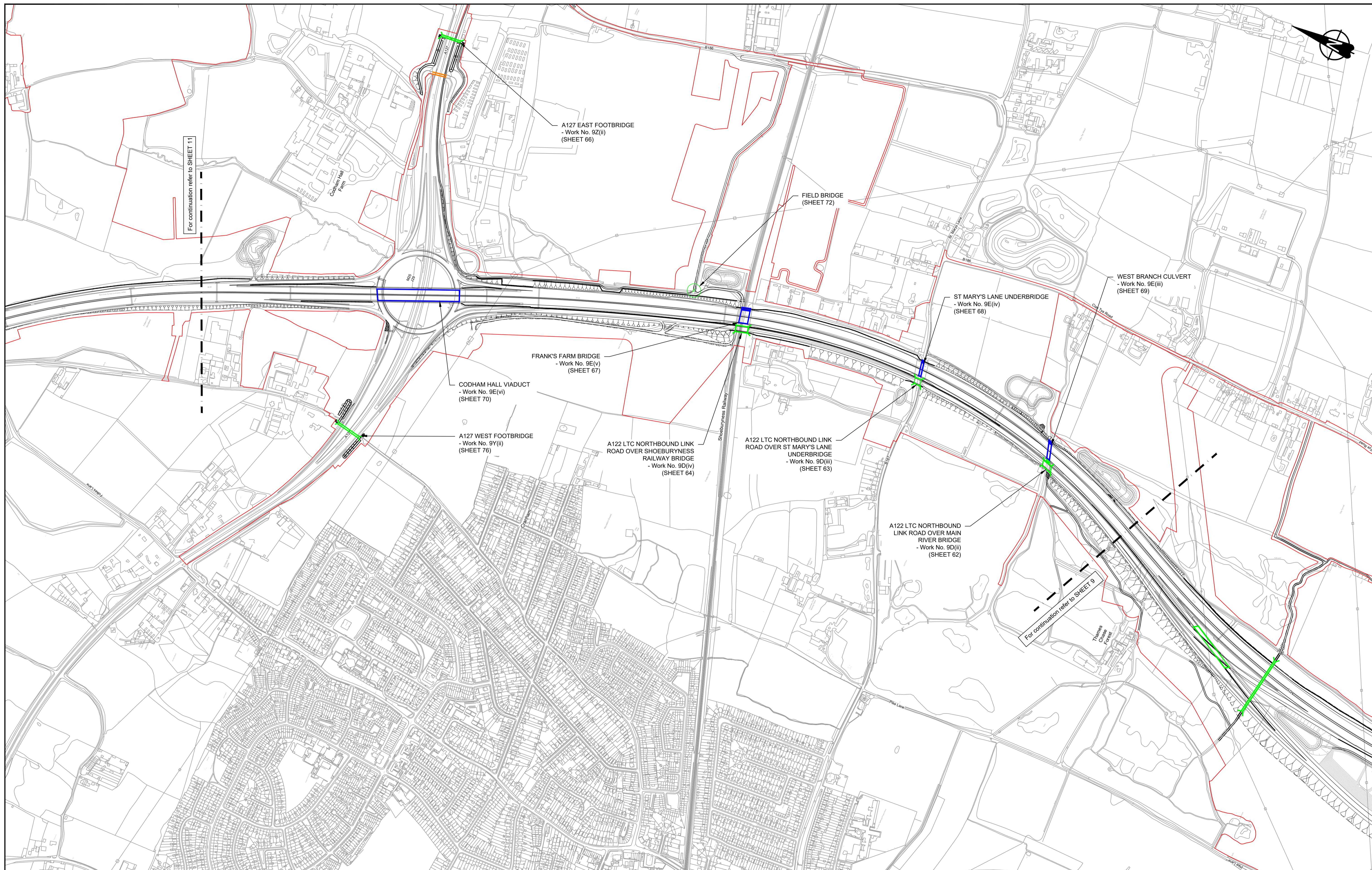
	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 9				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000 -DR-CB-10008				



For continuation refer to SHEET 11

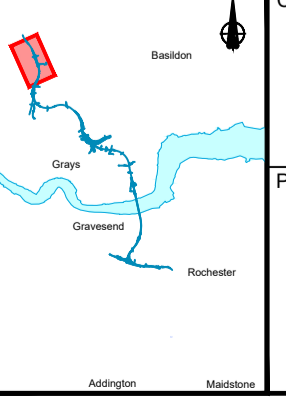
For continuation refer to SHEET 9

NOTES:

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LEGEND

	Existing modified structure
	Existing retained structure
	Proposed overbridge structure
	Proposed underbridge structure
	Order Limits



national highways

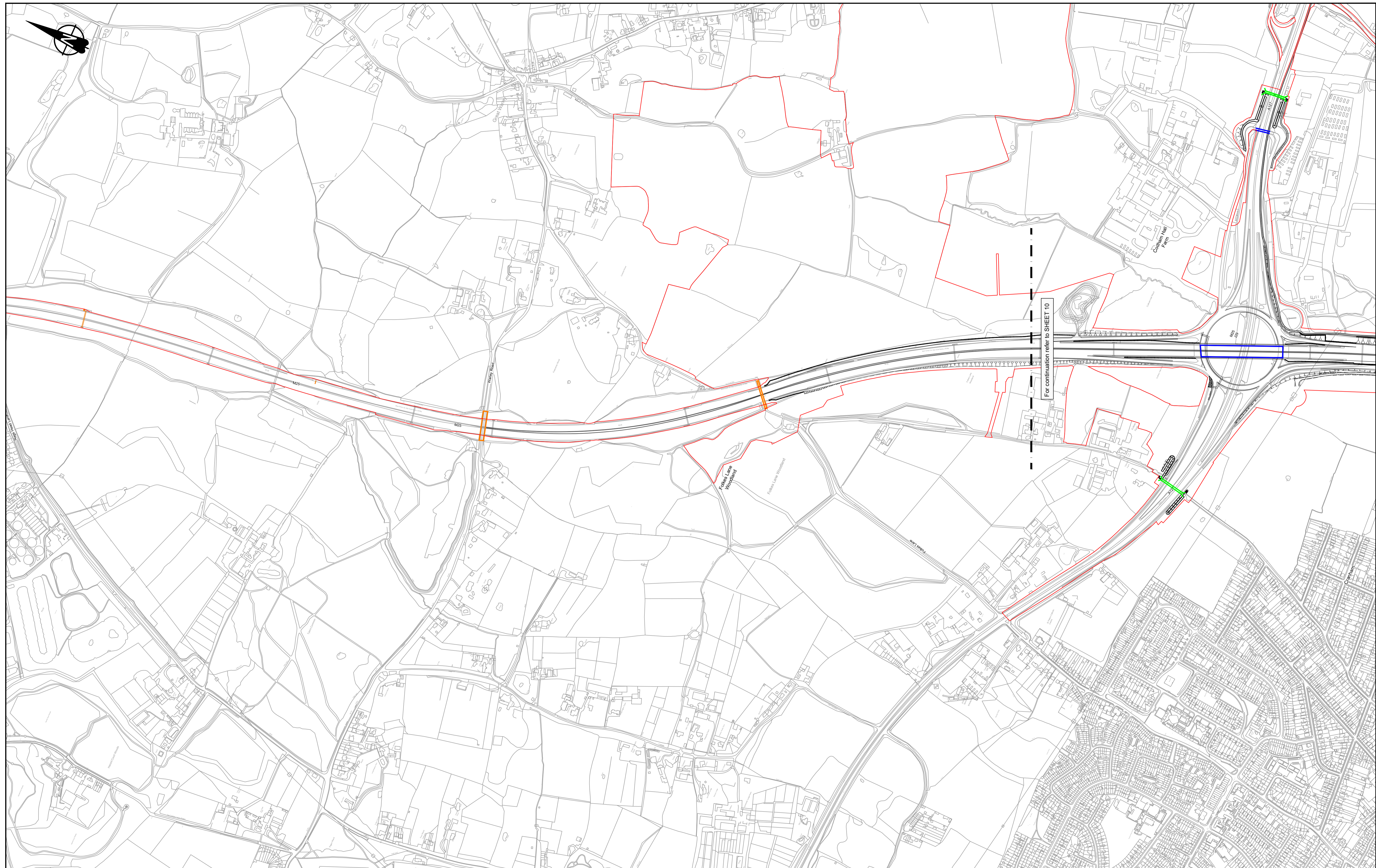
Client

Project

LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 10				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000 -DR-CB-10009				

P01	S8	19/10/2022	DCO Application	PG1	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd



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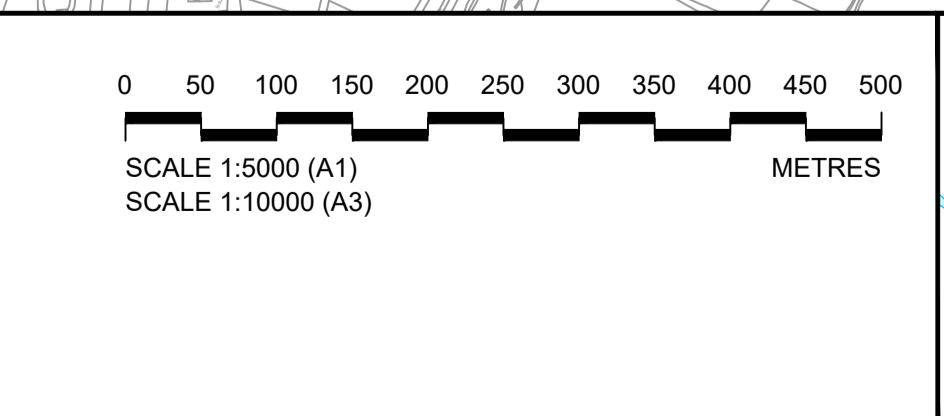
P01	SB	19/10/2022	DCO Application	PG1	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

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LEGEND

	Existing modified structure
	Existing retained structure
	Proposed new structure
	Order Limits



Client:

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.13	Scale	1:5000		
Drawing title	STRUCTURES PLANS 5(2)(o) STRUCTURES LOCATION KEY PLAN SHEET 11				
Drawing Number	HE540039-CJV-BOP-SZZ_ST000000_-DR-CB-10010				

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