

# Lower Thames Crossing

## 2.9 Engineering Drawings and Sections Volume C (A2 M2 and A2 mainline plan and profiles) (Clean version)

APFP Regulation 5(2)(o) and 6(2)

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

Volume 2

**DATE: December 2023**  
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## Revision History

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	11 December 2023	Deadline 9



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# Lower Thames Crossing

## 2.9 Engineering Drawings and Sections

### Volume C (A2 M2 and A2 mainline plan and profiles)

#### (Clean version)

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# 1 Introduction

- 1.1.1 This document is submitted to the Planning Inspectorate on behalf of the Secretary of State in relation to an application made by National Highways (the Applicant) under section 37 of the Planning Act 2008.
- 1.1.2 The application is for the grant of development consent for the A122 Lower Thames Crossing. Should development consent be granted, the draft A122 (Lower Thames Crossing) Development Consent Order (Application Document 3.1) (the draft Order) will be made by the Secretary of State (subject to any modifications considered appropriate).
- 1.1.3 This document comprises part of the suite of application documentation and is included in the application to comply with Regulations 5(2)(o) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the 2009 Regulations), which require:
- a. *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.*
  - b. *6(2) If the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales, which show, by reference to Ordnance Survey or Chart datum:*
  - c. *the levels of the proposed works, including in particular and where relevant:*
    - i. *ground levels;*
    - ii. *the height of every proposed bridge, viaduct, aqueduct, embankment and elevated guideway;*
    - iii. *the depth of every proposed cutting and tunnel;*
    - iv. *the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;*
    - v. *the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal waters or an inland waterway; and*
    - vi. *drainage outfall details for highways;*

- 1.1.4 The purpose of the Engineering Drawings and Sections Plans is to show the key features of the Project for which development consent is sought. The set shows details of the proposed road plan and longitudinal profile including the ground levels, the height of certain structures and embankments, the depth of proposed cuttings and tunnel, and the indicative location and level of drainage outfall features.
- 1.1.6 For each section, the Applicant has provided a key plan of the corresponding geographical area that provides the sheet number and a description of the associated road works to help with its identification within the set. It is important to note that the plans are numbered in each of the aforementioned sections and that the numbering system does not apply to the set as whole.
- 1.1.7 The key plans 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 in a single sheet plan. The scales in the key plans vary from 1:50000 to 1:5000. The remaining sheets in the set containing the plan and profiles and the cross sections have been prepared at a horizontal scale of 1:2500 and a vertical scale of 1:250.
- 1.1.8 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). Article 6 of the draft Order should also be referred to as it provides the reference points for the application of the upwards and downwards vertical limits of deviation applicable to the elements of the works.
- 1.1.9 Numbered works shown in the Engineering Drawings and Sections Plans are consistent with the information presented in the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1). Further details of the proposed bridges and tunnel structures are provided in the Structures Plans (Application Document 2.13).
- 1.1.10 The information shown on the plans is commensurate with the preliminary design status of the Project. 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).
- 1.1.11 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).
- 1.1.6 The Engineering Drawings and Sections show the Order Limits. 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 Document 3.1)).
- 1.1.7 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 eight volumes:

- a. Volume A contains the A122 Lower Thames Crossing Plan and Profiles;
- b. Volume B contains the A122 Lower Thames Crossing Cross Sections;
- c. Volume C contains the A2/M2 Plan and Profiles and A2 Mainline Plan and Profiles;
- d. Volume D contains the A122 Lower Thames Crossing/A2 Junction Plan and Profiles;
- e. Volume E contains the South Portal Plan and Profiles and Tilbury Plan and Profiles;
- f. Volume F contains the A13 Junction Plan and Profile;
- g. Volume G contains the A122 Lower Thames Crossing/M25 Junction Plan;  
and
- h. Volume H contains the Overhead Diversion Route and Pylon general arrangements.

1.1.8 These plans have been updated for Deadline 9 to include all agreed proposed changes and amendments throughout Examination.

## 2 Schedule of Plans included in this application document

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A122 LTC PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) KEY PLAN	TR010032/APP/2.9	P05
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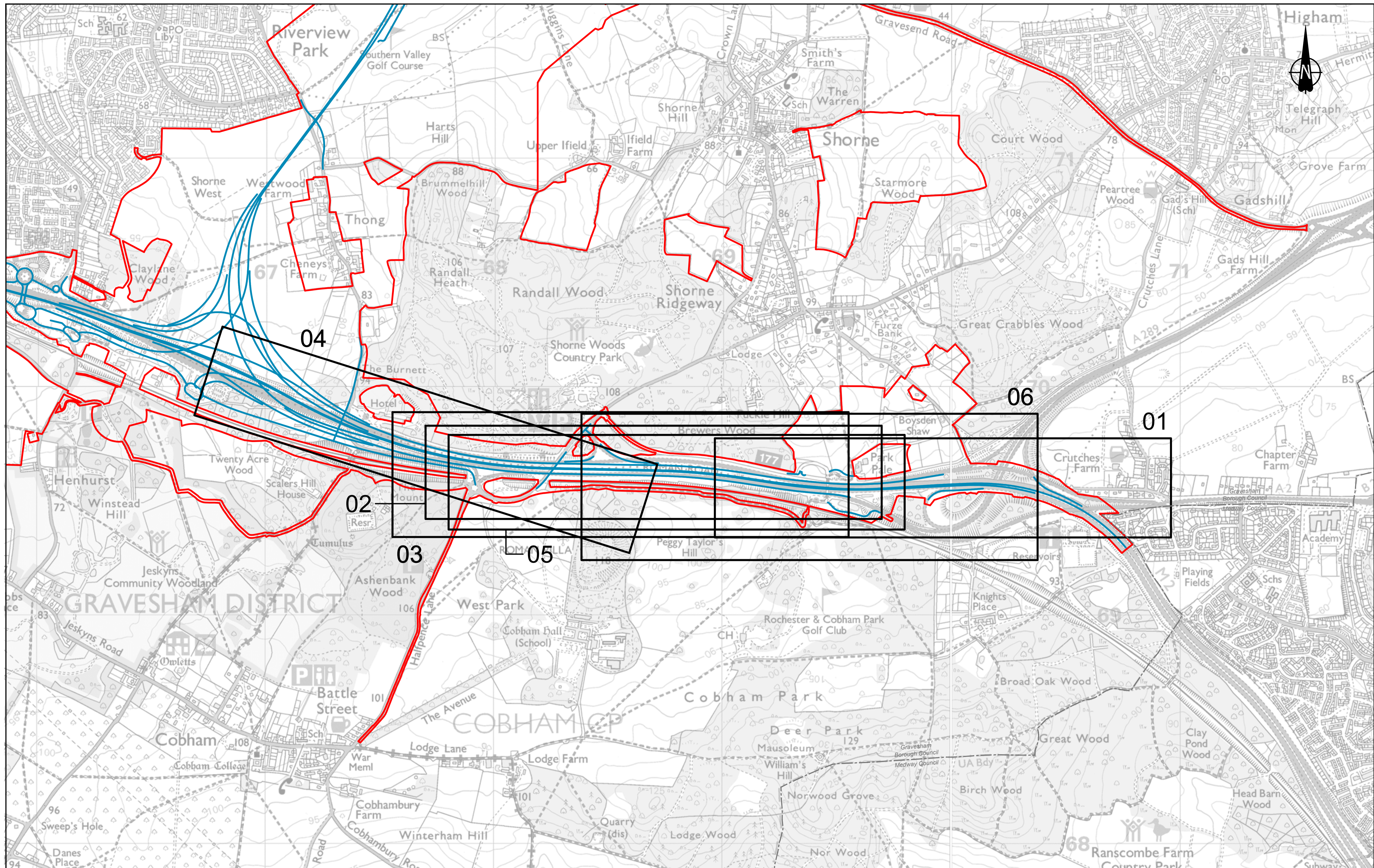
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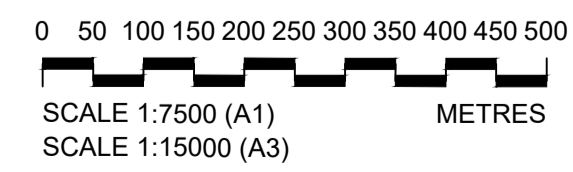





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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

- LEGEND:**
- Proposed Route
  - Order Limits
  - - - - - Local Authority Boundary

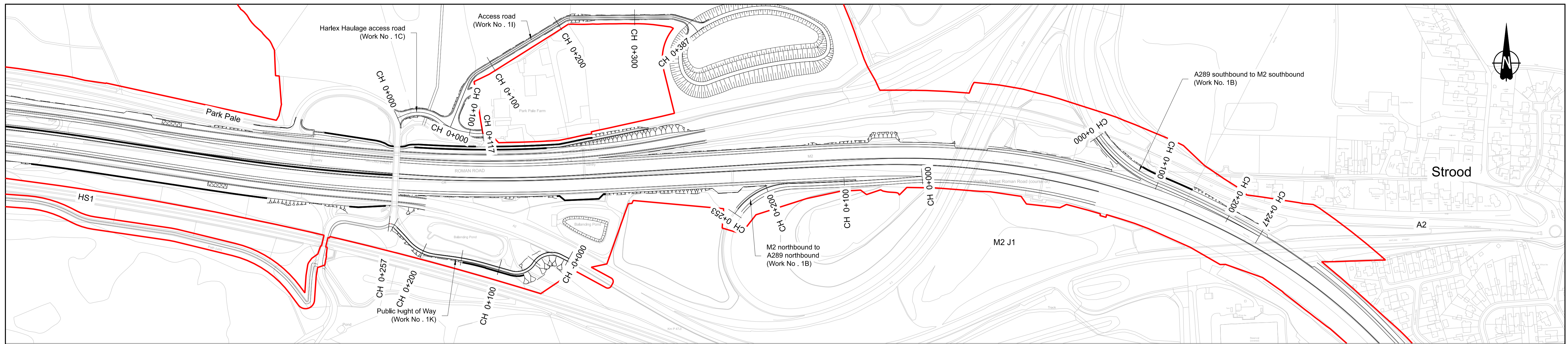


Client  
  
 Project  
**LOWER THAMES CROSSING**

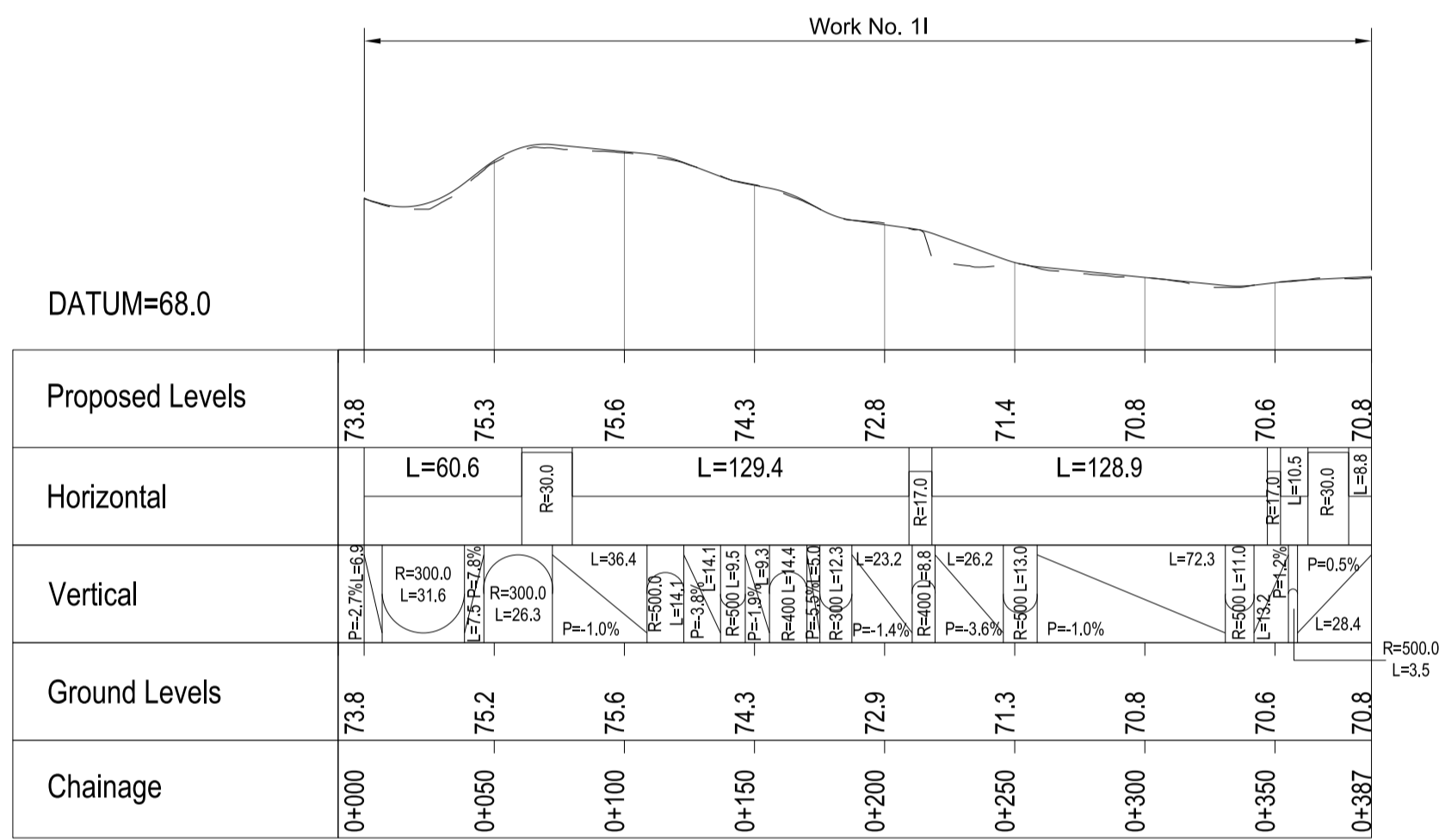
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Drawing title	<b>A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) KEY PLAN</b>				
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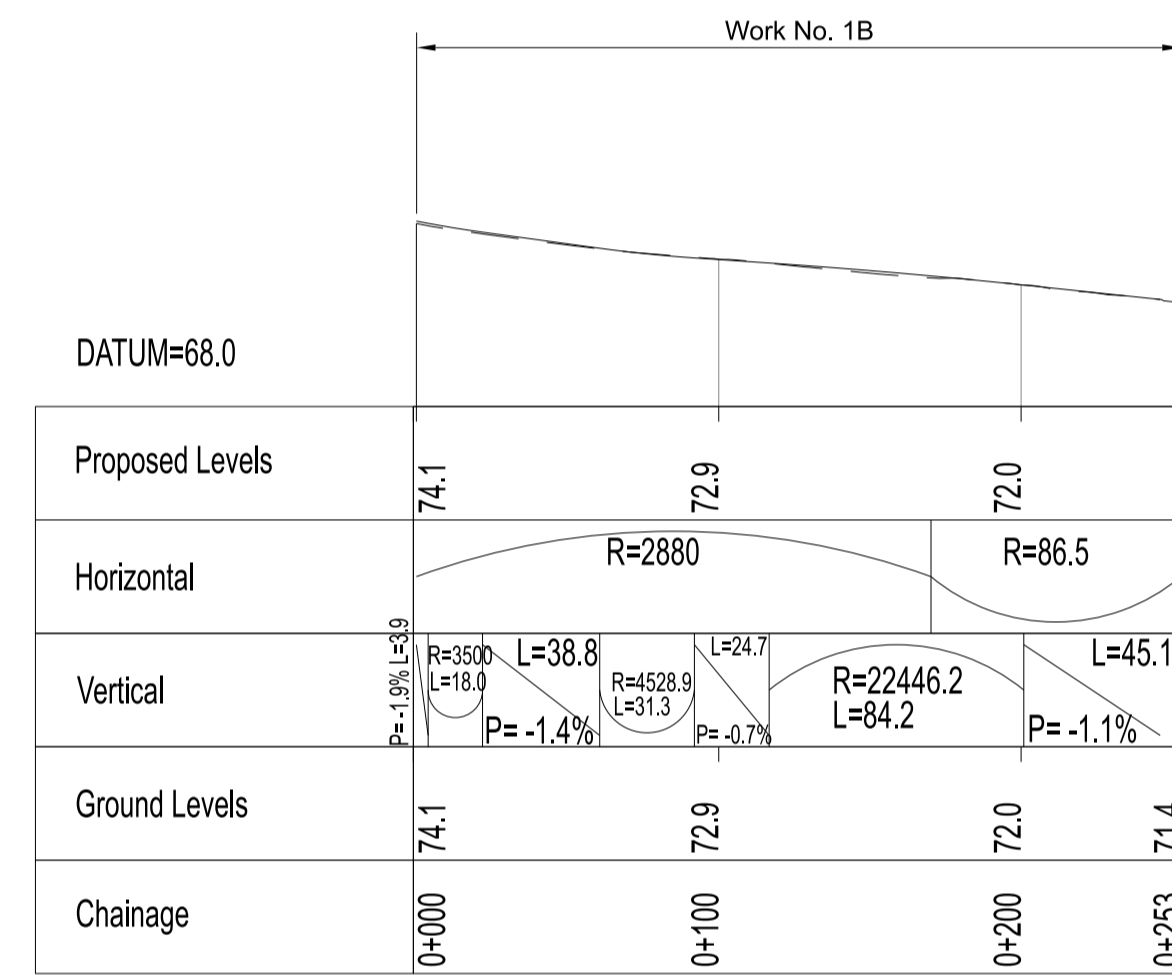




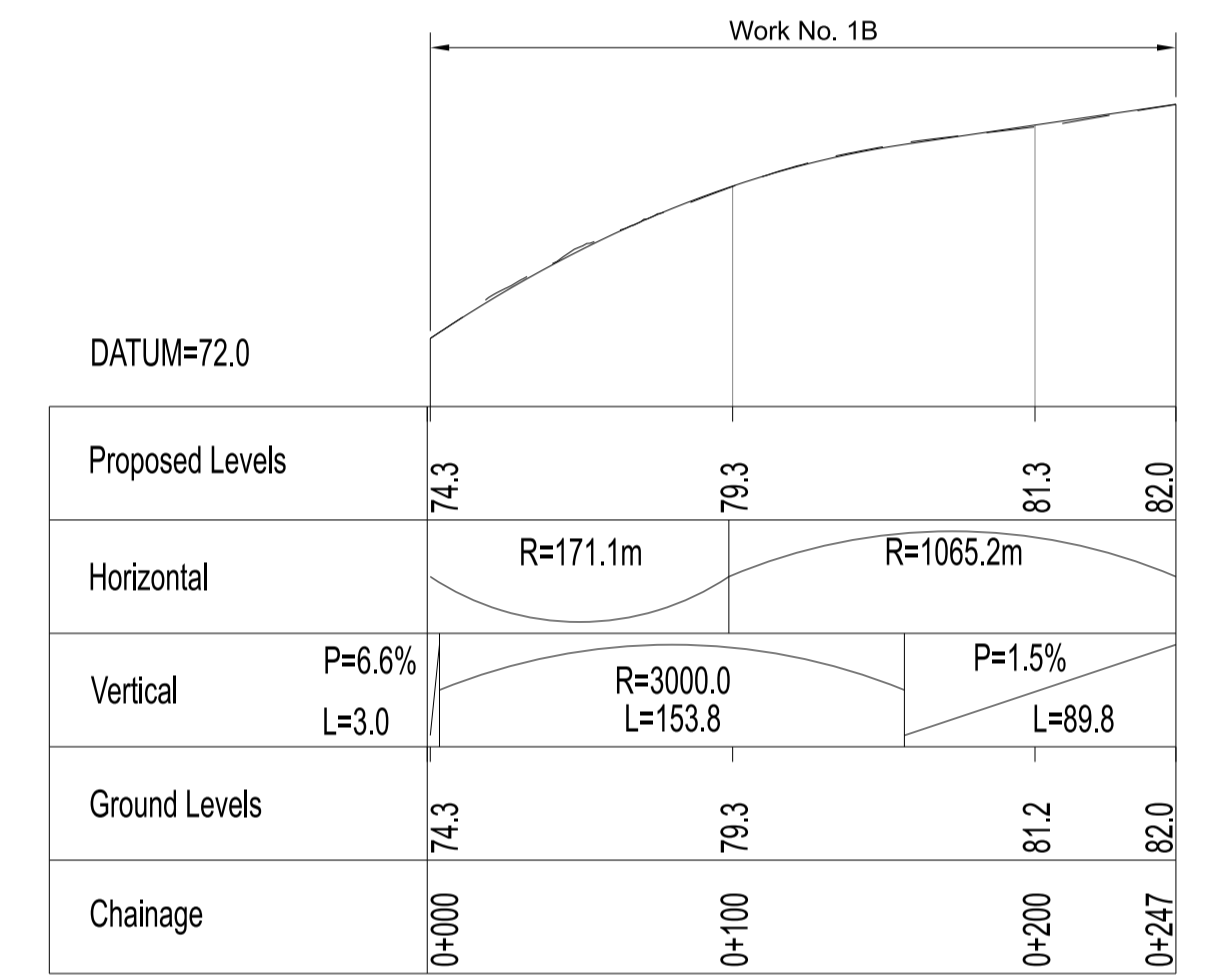
PLAN



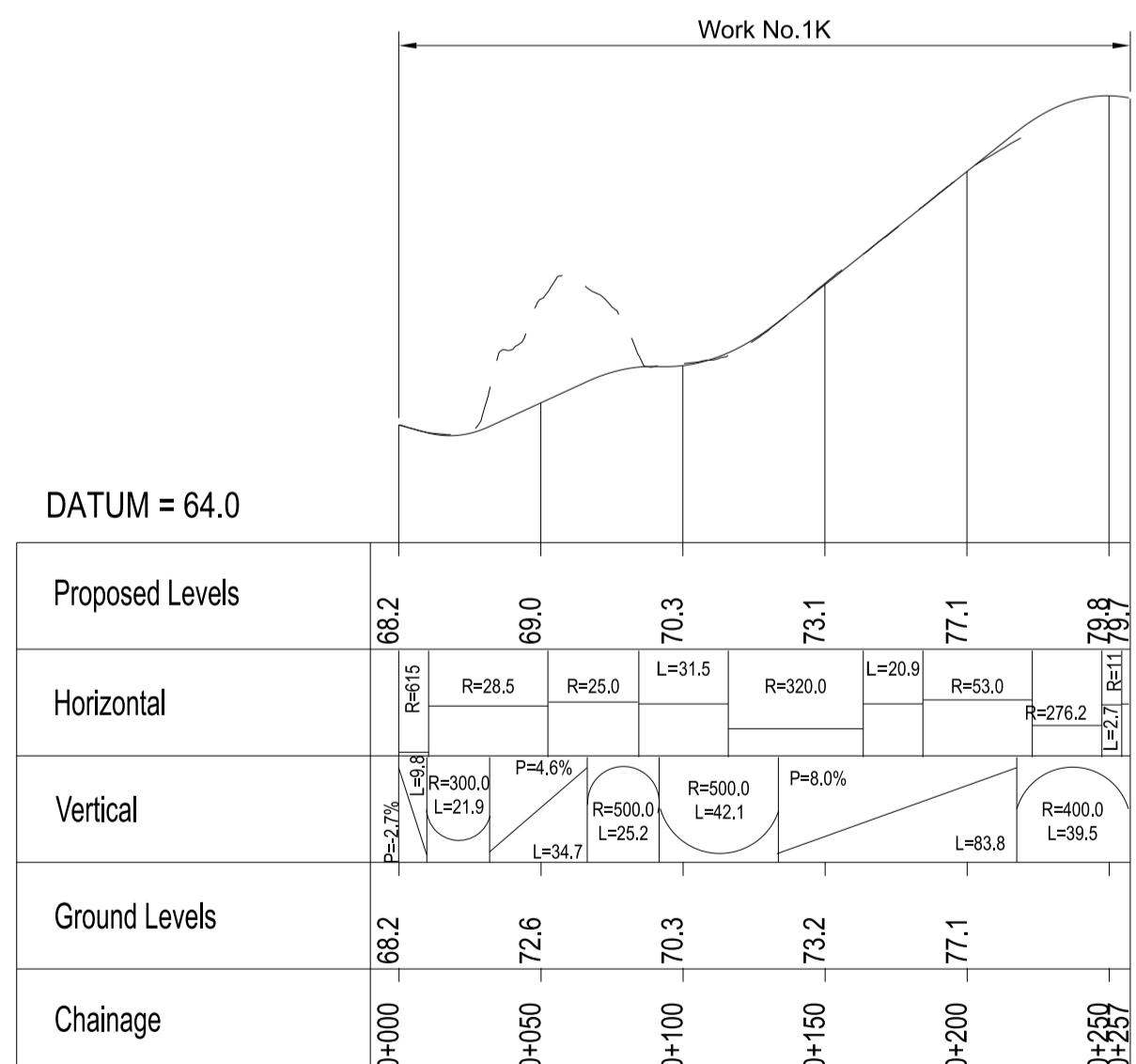
ACCESS ROAD PROFILE



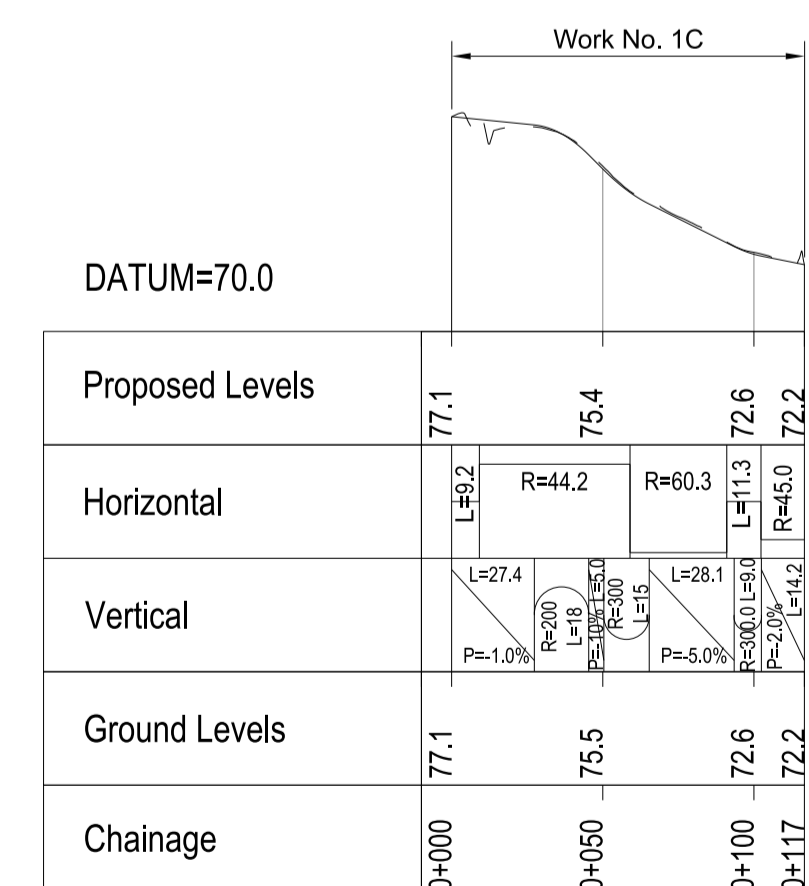
M2 NORTHBOUND TO A290 NORTHBOUND PROFILE



A290 SOUTHBOUND TO M2 SOUTHBOUND PROFILE



PUBLIC RIGHT OF WAY PROFILE

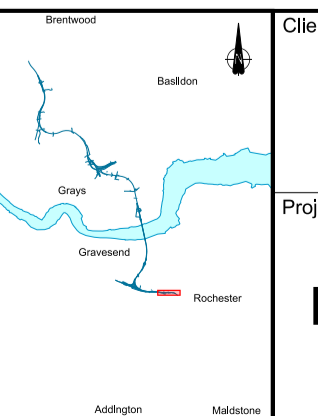
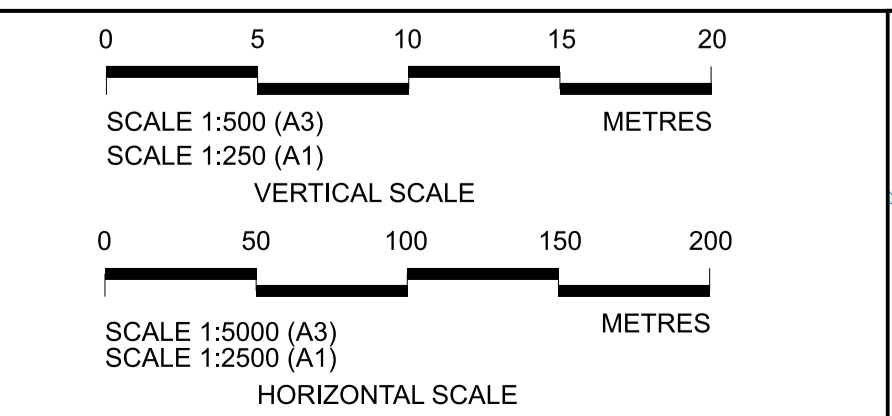


HARLEX HAULAGE ACCESS ROAD PROFILE

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd/ Apprv'd
P01	S8	19/10/2022	DCO Application	LY	RO ASB
P02	S8	11/12/2023	Deadline 9	GP	RO ASB

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  - All levels are in metres relative to the Ordnance Datum.
  - Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

- LEGEND:
- Existing ground level
  - Structure
  - Proposed road level
  - ▭ Structures - Bridge
  - ▭ Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FR - Finished Road Level
  - MA - Maintenance access
  - Order Limits

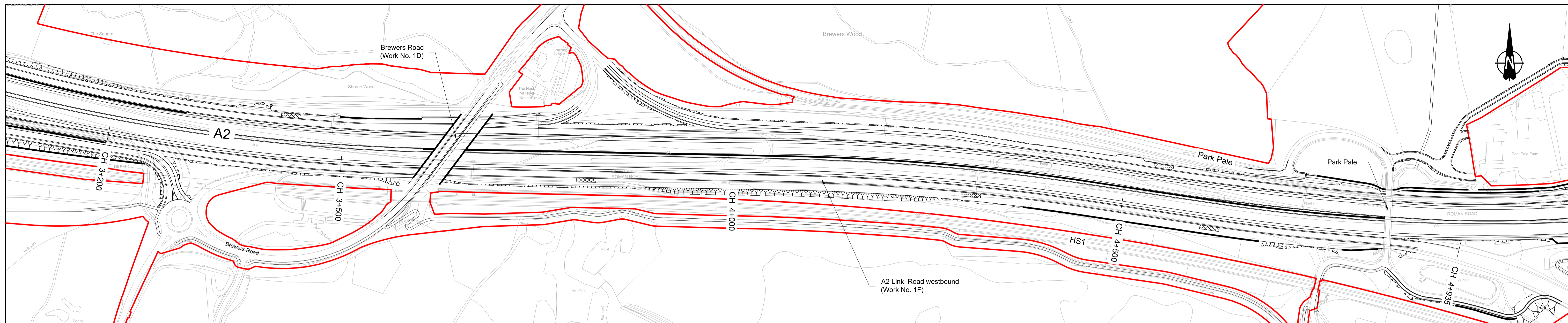


Client: national highways

Project: LOWER THAMES CROSSING

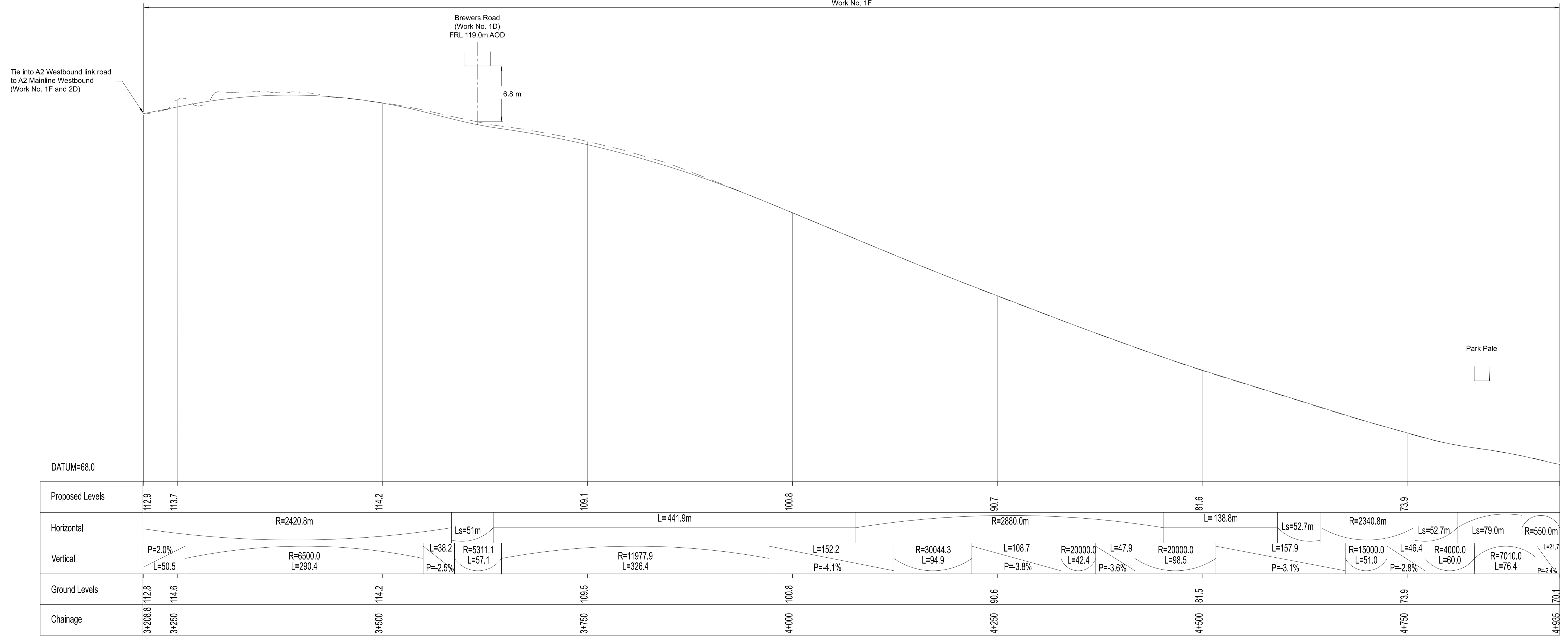
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10101				





PLAN

Work No. 1F

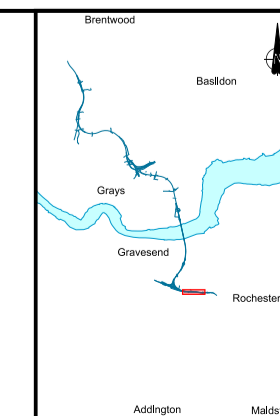
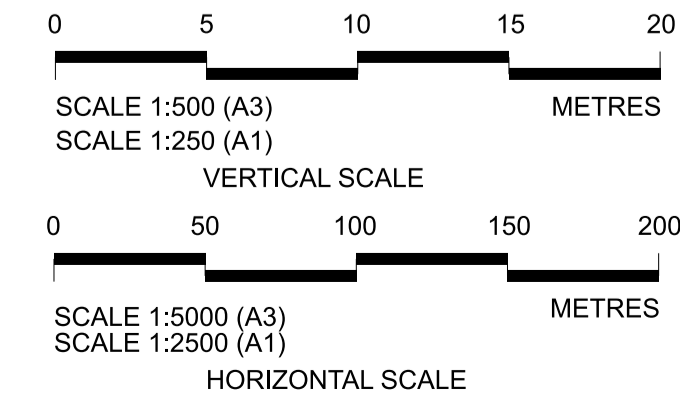


A2 LINK ROAD WESTBOUND PROFILE

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

- NOTES:
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  - All levels are in metres relative to the Ordnance Datum.
  - Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

- LEGEND:
- Existing ground level
  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - Maintenance access
  - Order Limits

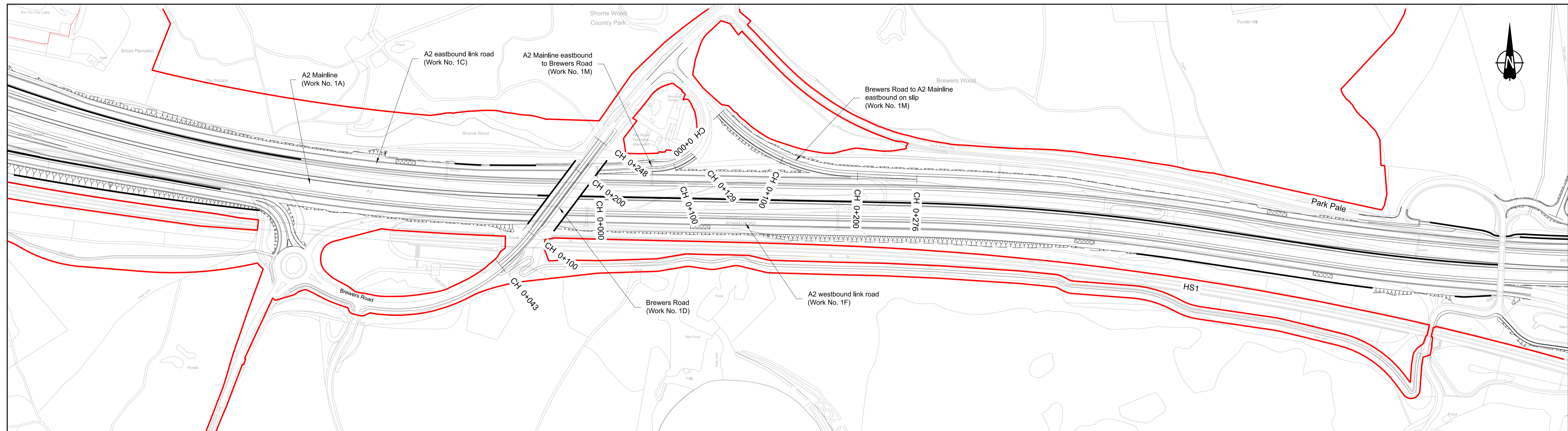


Client: national highways

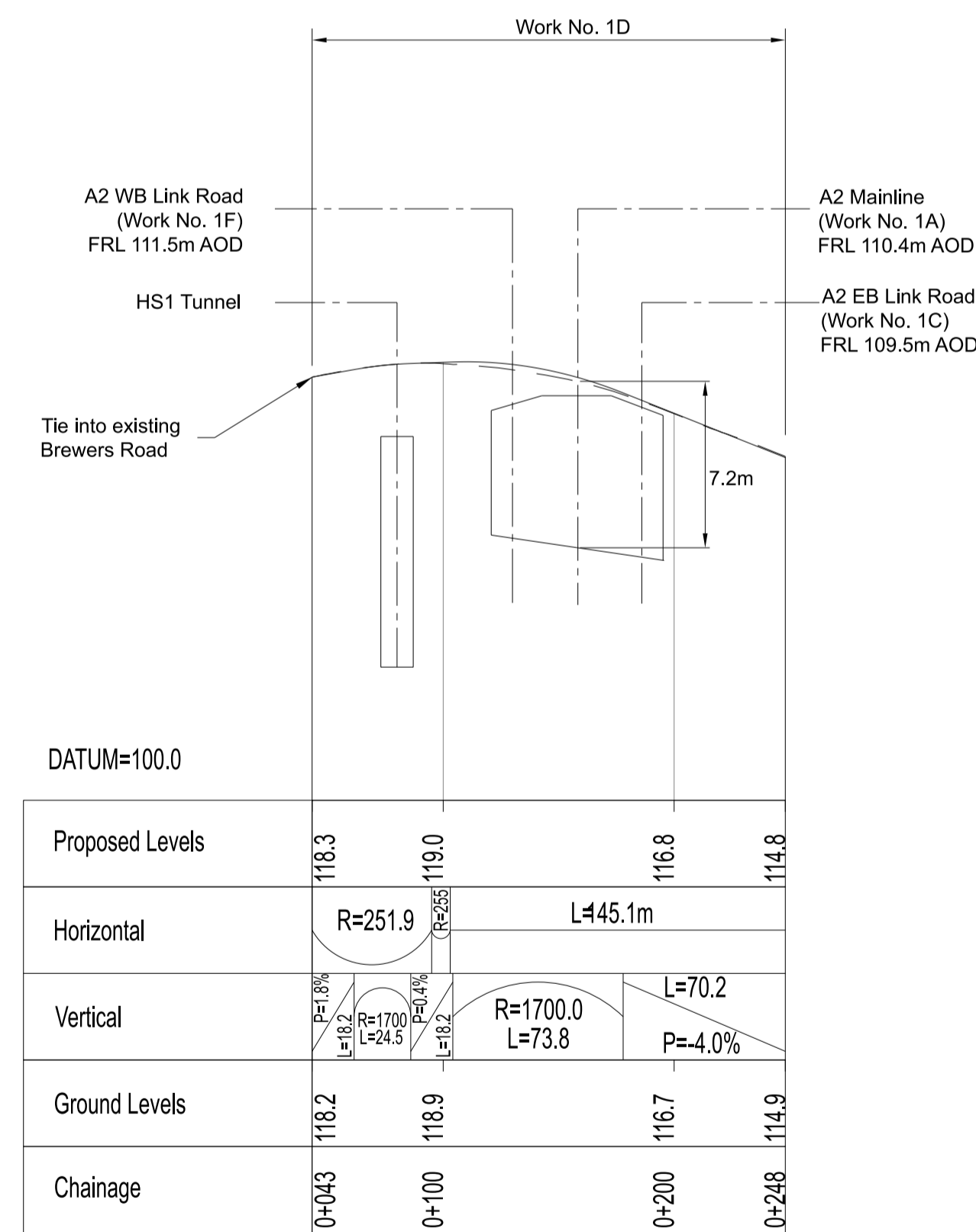
Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 2				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10102				

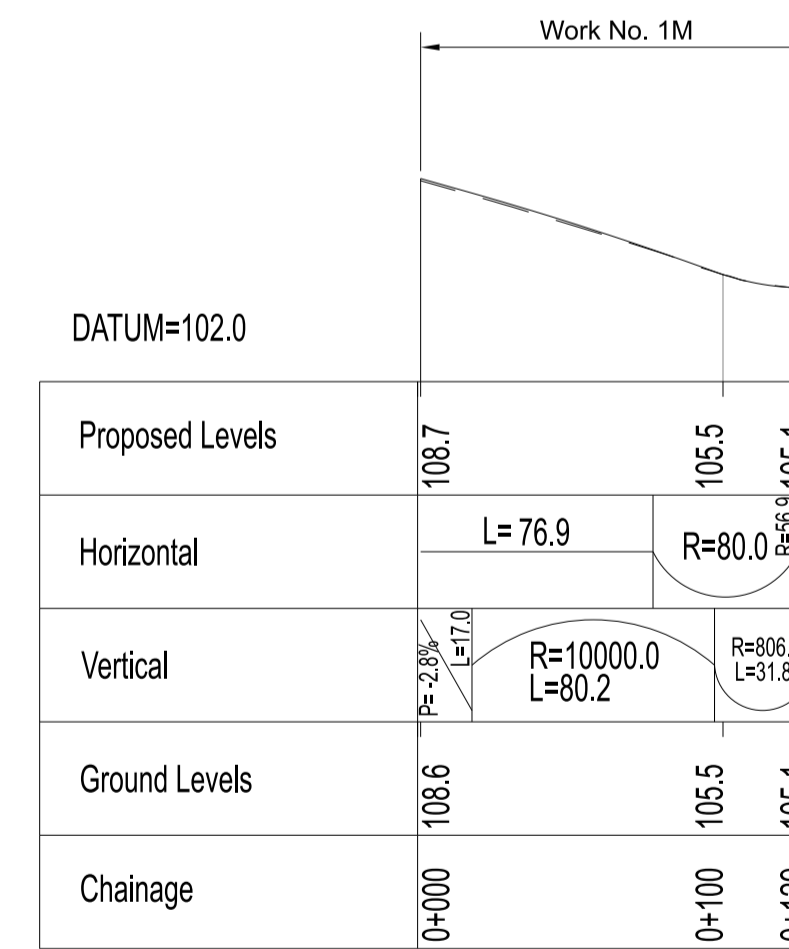




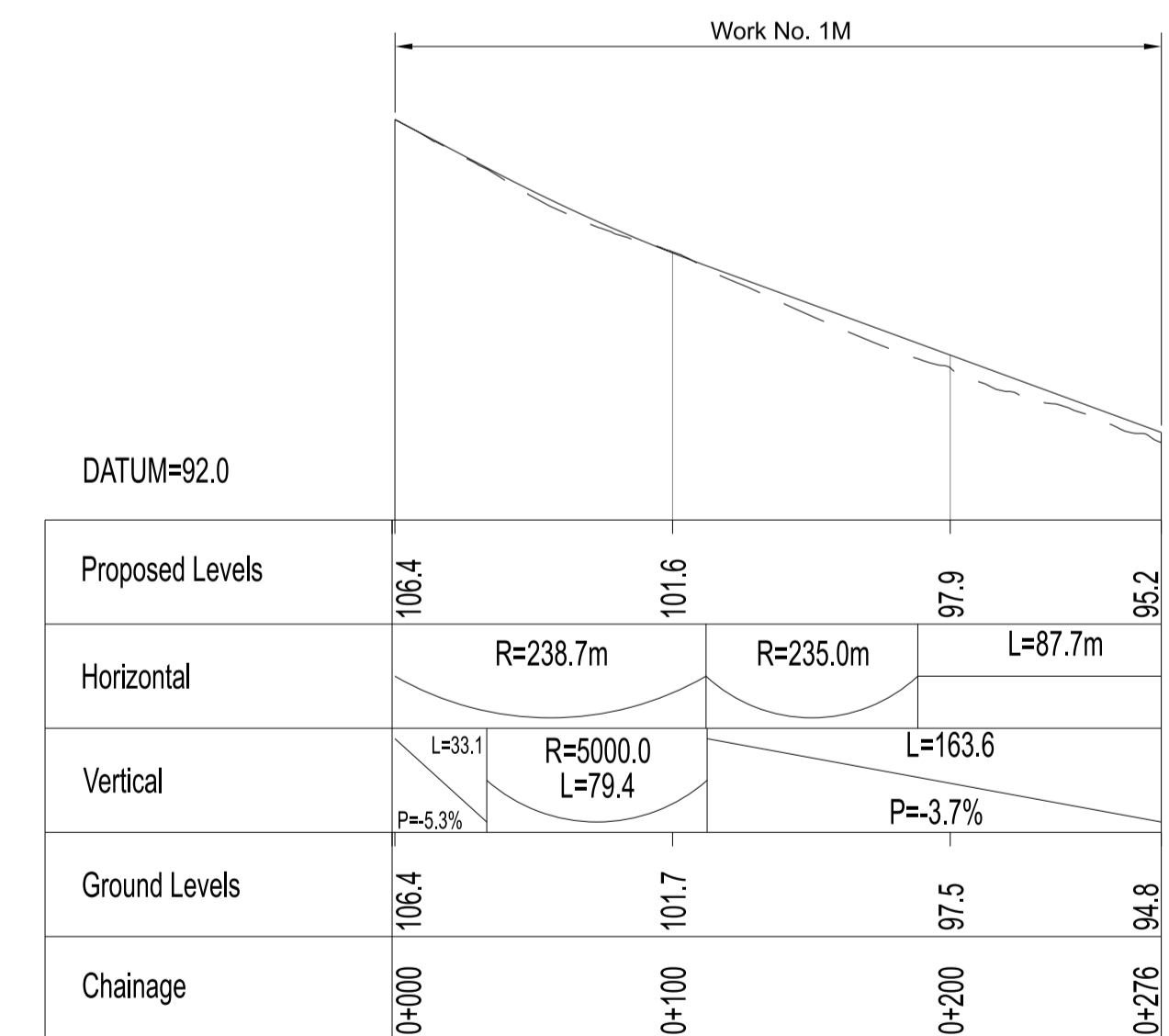
PLAN



BREWERS ROAD PROFILE



A2 MAINLINE EASTBOUND TO BREWERS ROAD PROFILE

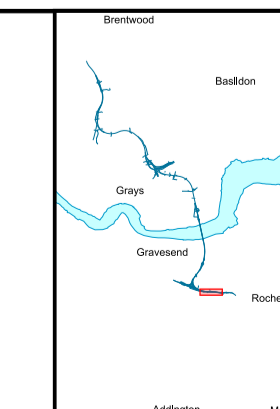
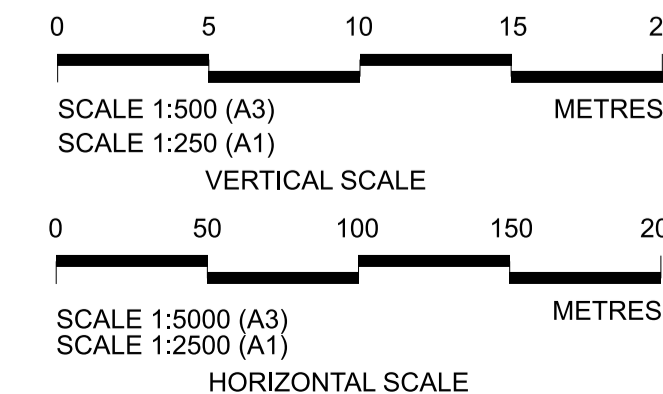


BREWERS ROAD TO A2 MAINLINE EASTBOUND ON SLIP PROFILE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

- NOTES:
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  - All levels are in metres relative to the Ordnance Datum.
  - Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

- LEGEND:
- Existing ground level
  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - Maintenance access
  - Order Limits



Client: national highways

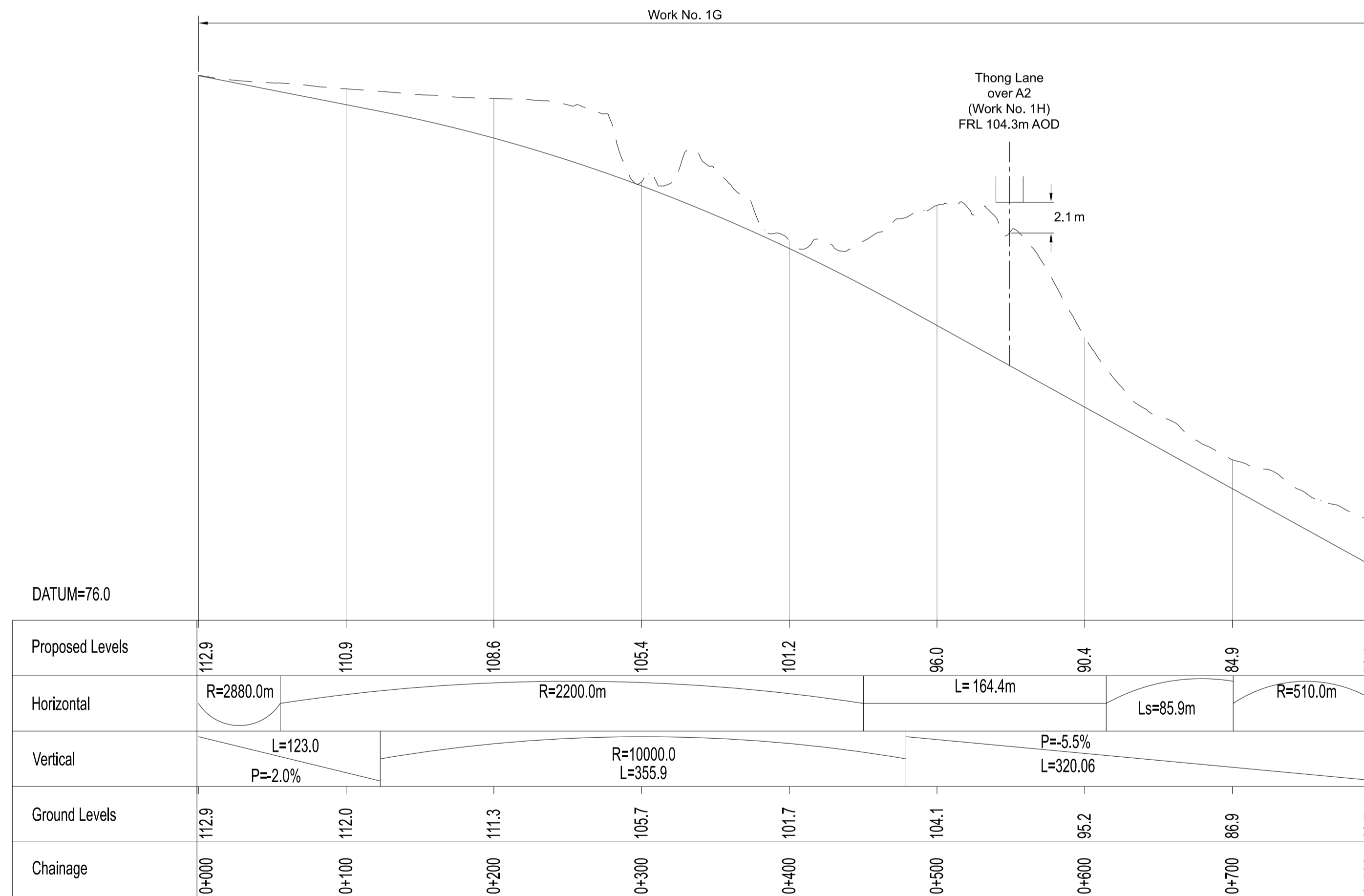
Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 3				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10103				





PLAN

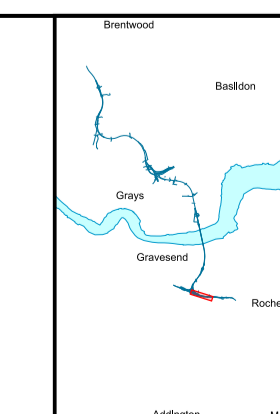
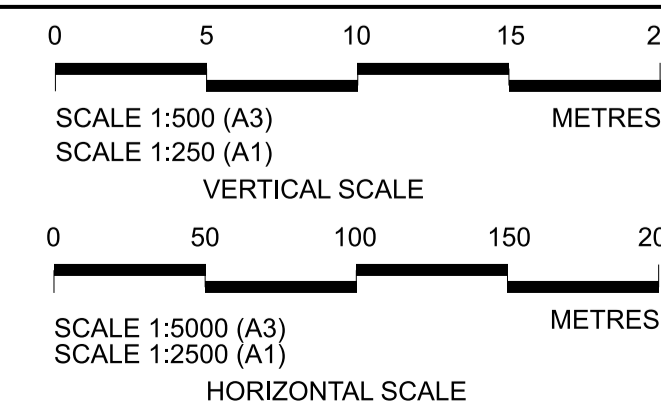


A2 WESTBOUND LINK ROAD TO A122 LTC NORTHBOUND PROFILE

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P01	S8	19/10/2022	DCO Application		LY	BB	ASB			
P02	S8	11/12/2023	Deadline 9		GP	RO	ASB			
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd				

**NOTES:**  
 1. The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).  
 2. These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).  
 3. Do not scale from this drawing.  
 4. All dimensions are in metres unless stated otherwise.  
 5. All levels are in metres relative to the Ordnance Datum.  
 6. Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

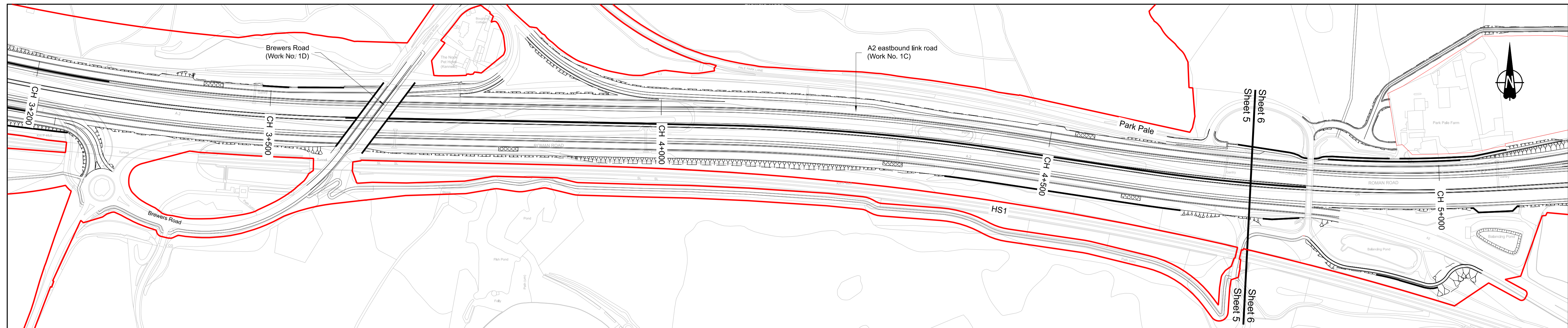
- LEGEND:**
- Existing ground level
  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - Maintenance access
  - Order Limits



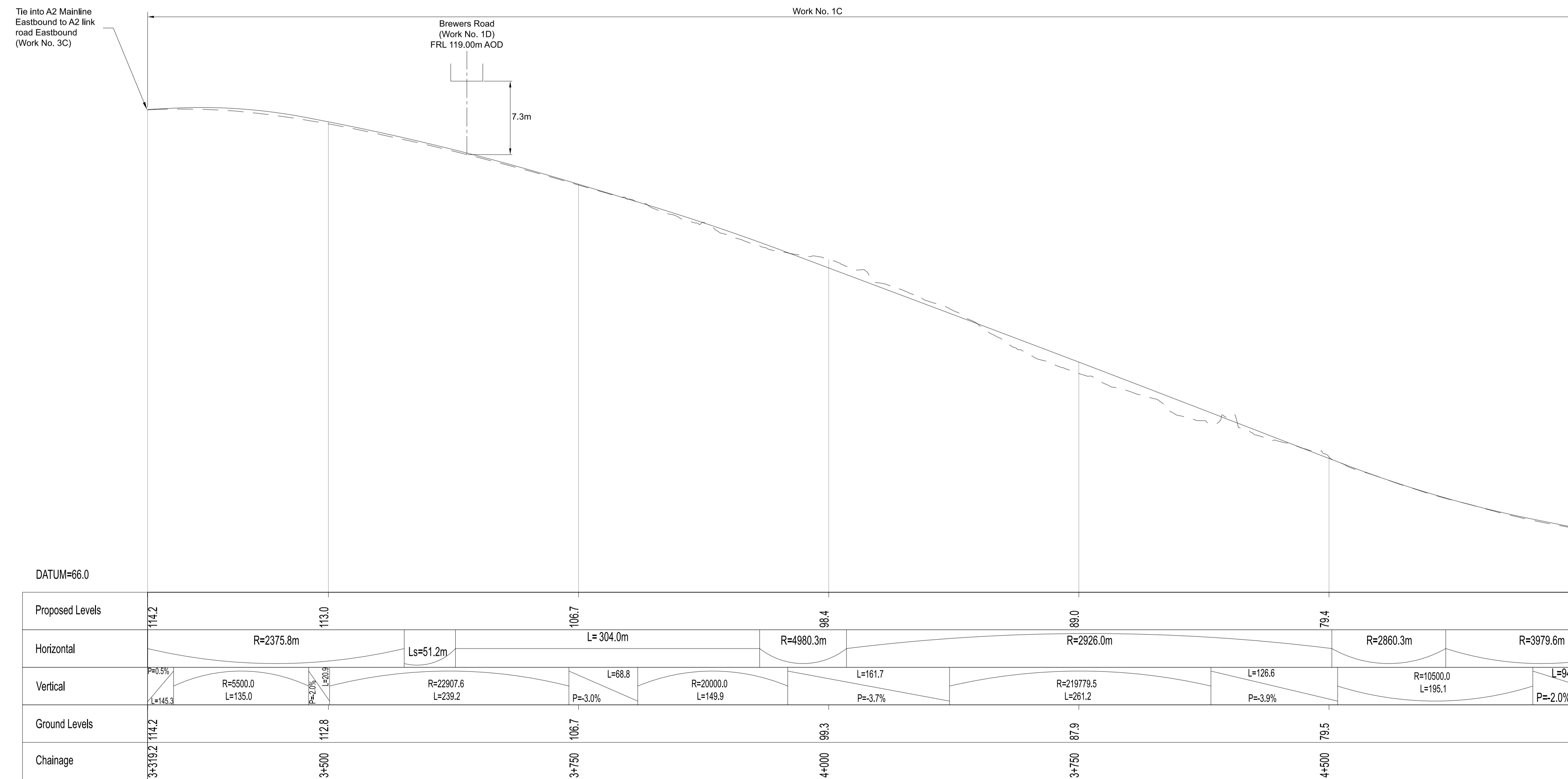
Client  
**national highways**  
 Project  
**LOWER THAMES CROSSING**

Status	DCO Examination		Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9		Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 4					
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10104					





PLAN



A2 EASTBOUND LINK ROAD PROFILE

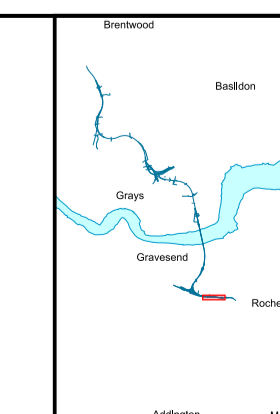
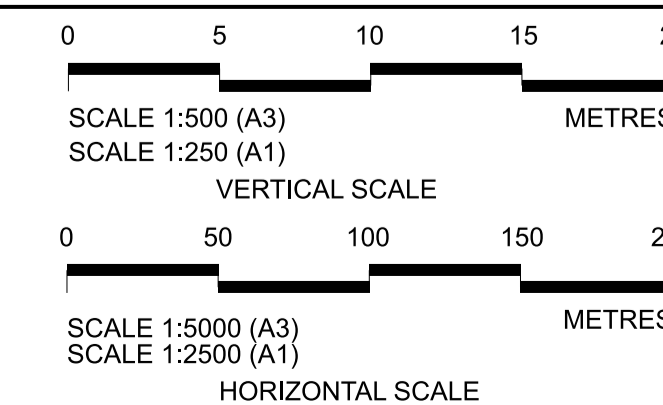
Contains Ordnance Survey data. © Crown copyright and database rights 2023. Ordnance Survey 100030649						
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd

NOTES:

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- All dimensions are in metres unless stated otherwise.
- All levels are in metres relative to the Ordnance Datum.
- Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

LEGEND:

- - - Existing ground level
- Structure
- Proposed road level
- Structures - Bridge
- Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MHWS - Mean High Water Springs
- MLWS - Mean Low Water Springs
- FRL - Finished Road Level
- Maintenance access
- Order Limits

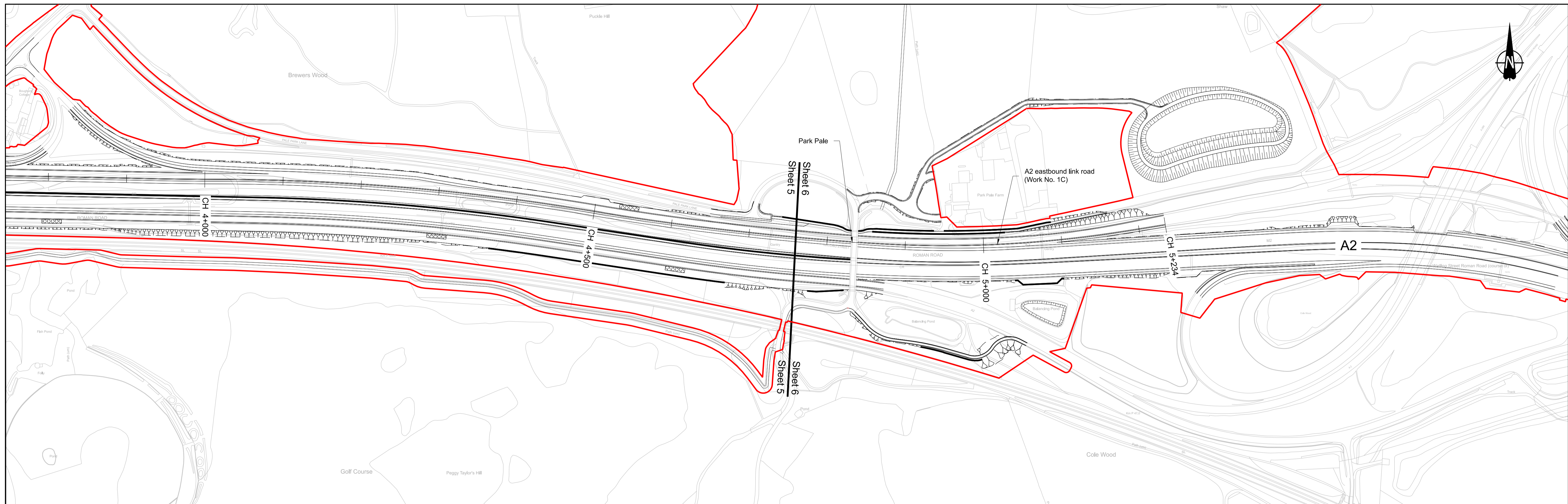


Client: **national highways**

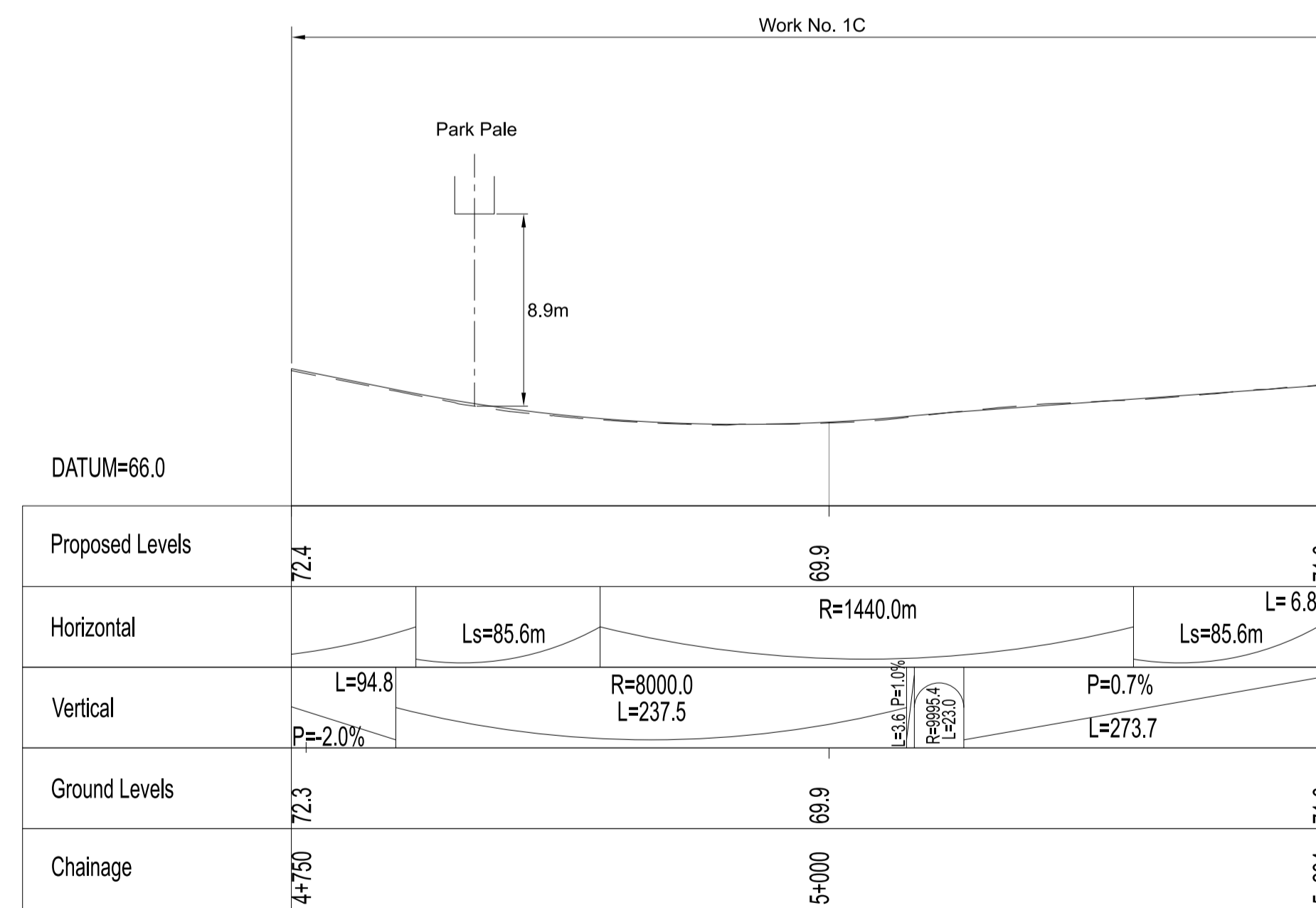
Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 5				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10105				





PLAN



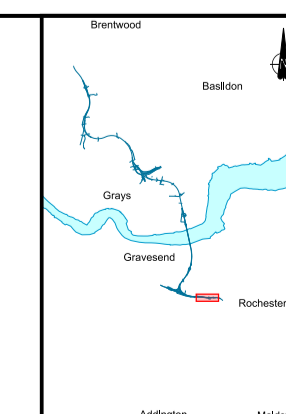
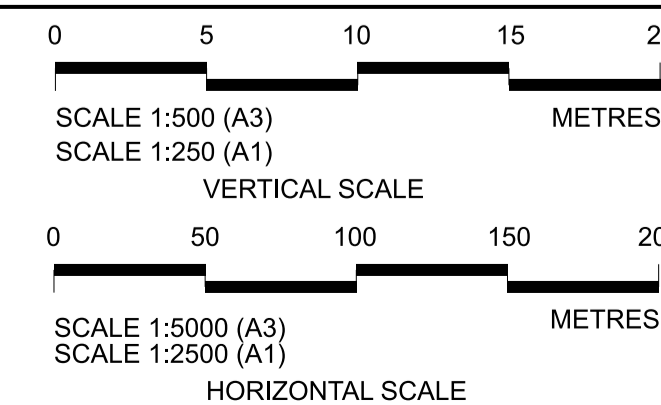
A2 EASTBOUND LINK ROAD PROFILE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

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 5. All levels are in metres relative to the Ordnance Datum.  
 6. Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

**LEGEND:**

--- Existing ground level	NB - Northbound
— Structure	WB - Westbound
— Proposed road level	EB - Eastbound
— Structures - Bridge	SB - Southbound
— Structures - Underpass	MHWS - Mean High Water Springs
	MLWS - Mean Low Water Springs
	FRL - Finished Road Level
	MA - Maintenance access
	— Order Limits

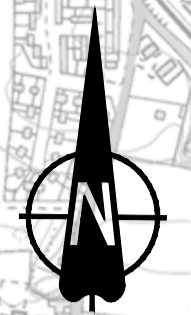
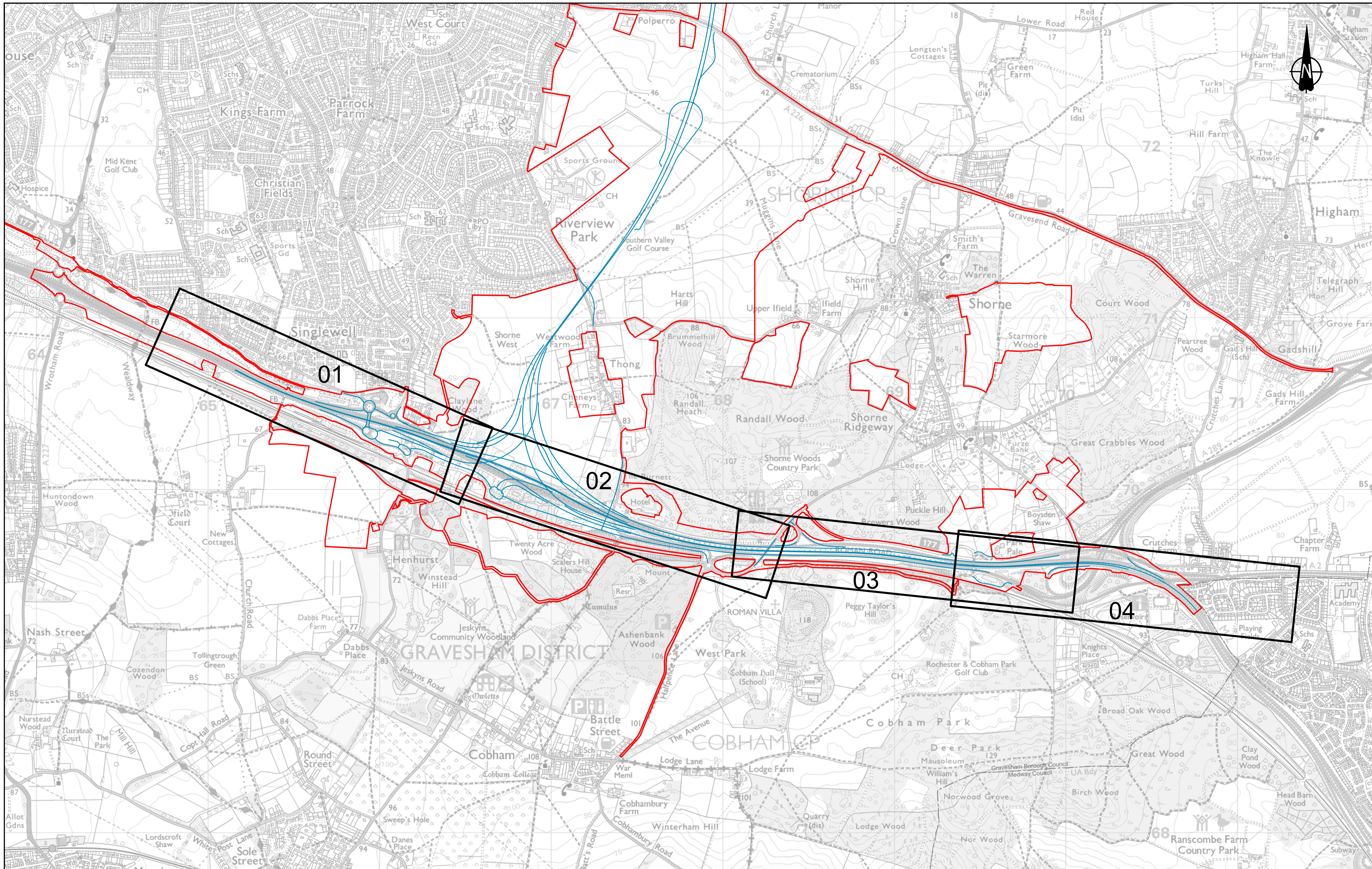


Client: **national highways**

Project: **LOWER THAMES CROSSING**



Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	A2/M2 PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 6				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10106				



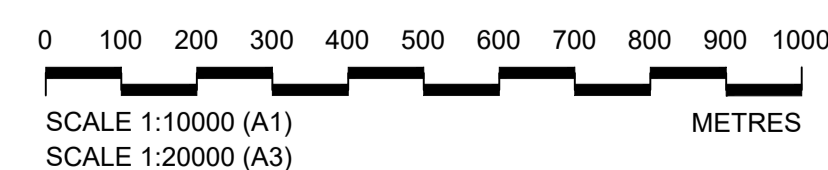


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**LEGEND:**

	Proposed Route
	Order Limits
	Local Authority Boundary

P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

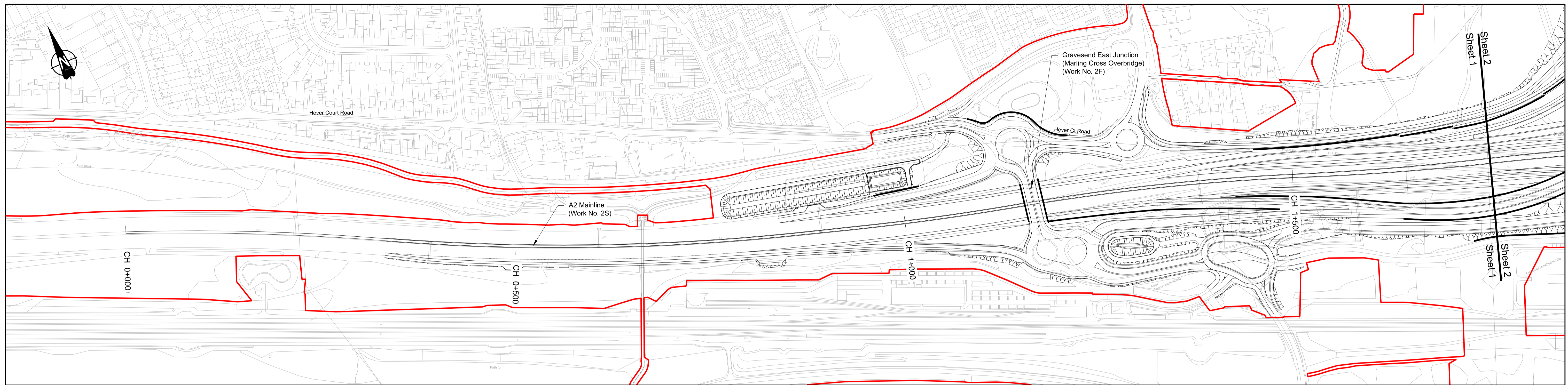


LOWER THAMES CROSSING

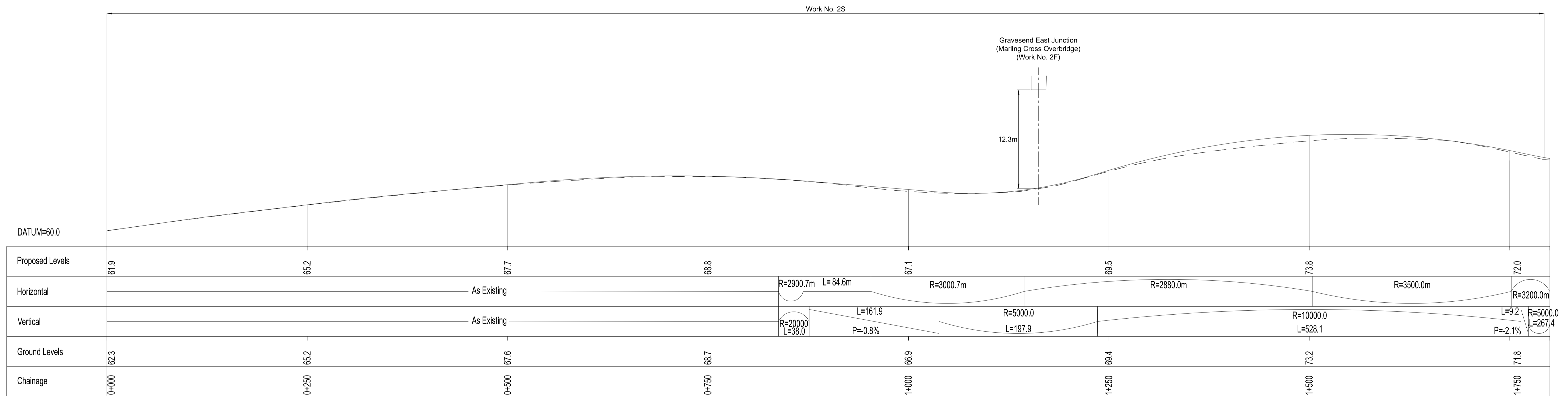
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Drawing title	A2 MAINLINE - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) KEY PLAN				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_DR-CH-10250				

HE540039-CJV-BOP-SZA\_RX000000\_DR-CH-10250.dwg





PLAN



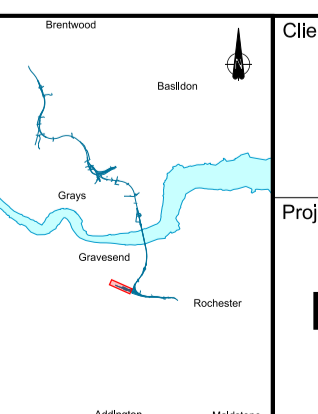
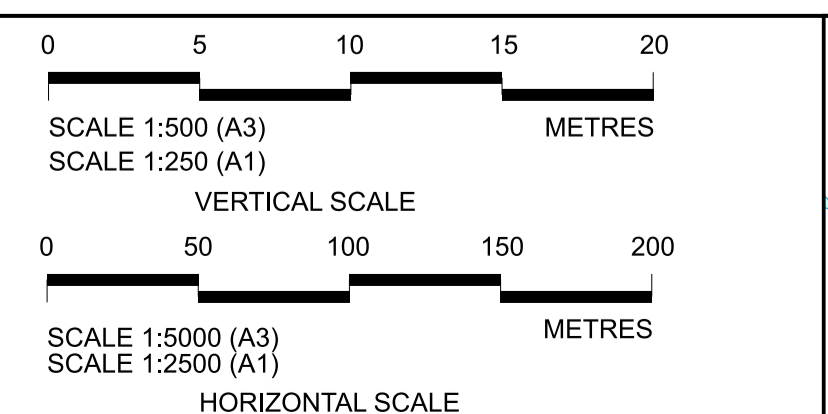
A2 MAINLINE PROFILE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

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 6. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

**LEGEND:**

- Existing ground level
- Structure
- Proposed road level
- Structures - Bridge
- Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MHWS - Mean High Water Springs
- MLWS - Mean Low Water Springs
- FERL - Finished Road Level
- Maintenance access
- Order Limits

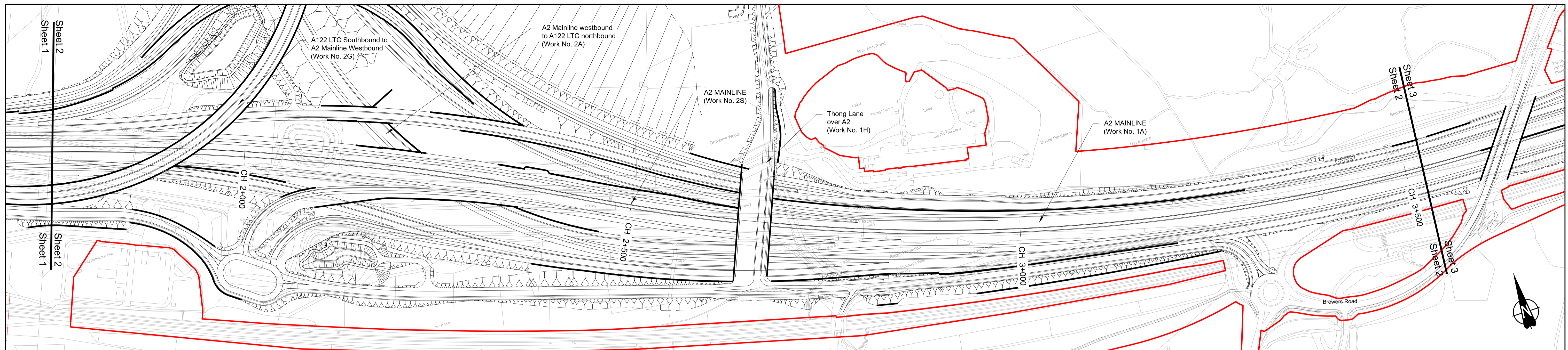


**national highways**

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title:	A2 MAINLINE - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10251				

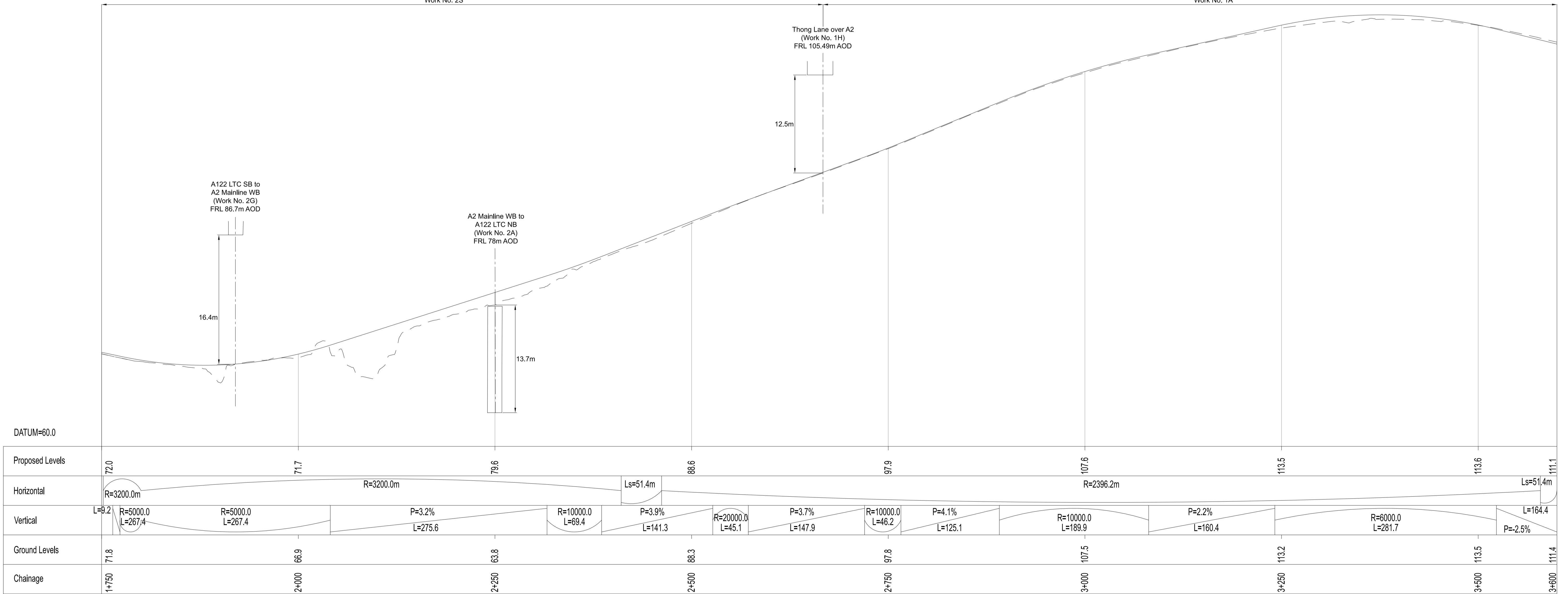




PLAN

Work No. 2S

Work No. 1A

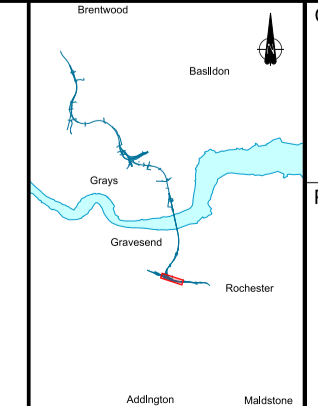
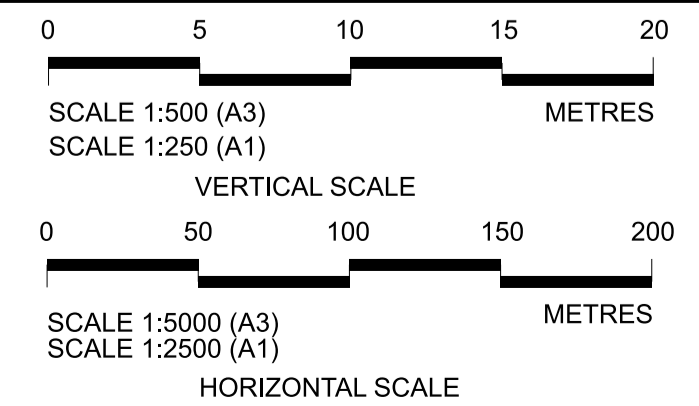


A2 MAINLINE PROFILE

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

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 3. Do not scale from this drawing.  
 4. All dimensions are in metres unless stated otherwise.  
 5. All levels are in metres relative to the Ordnance Datum.  
 6. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

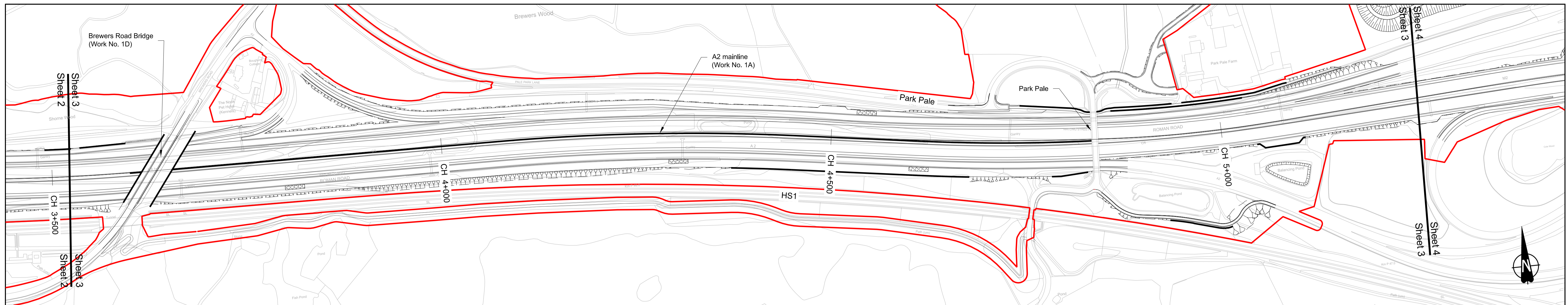
- LEGEND:
- Existing ground level
  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - MA - Maintenance access
  - Order Limits



Client: national highways  
 Project: LOWER THAMES CROSSING

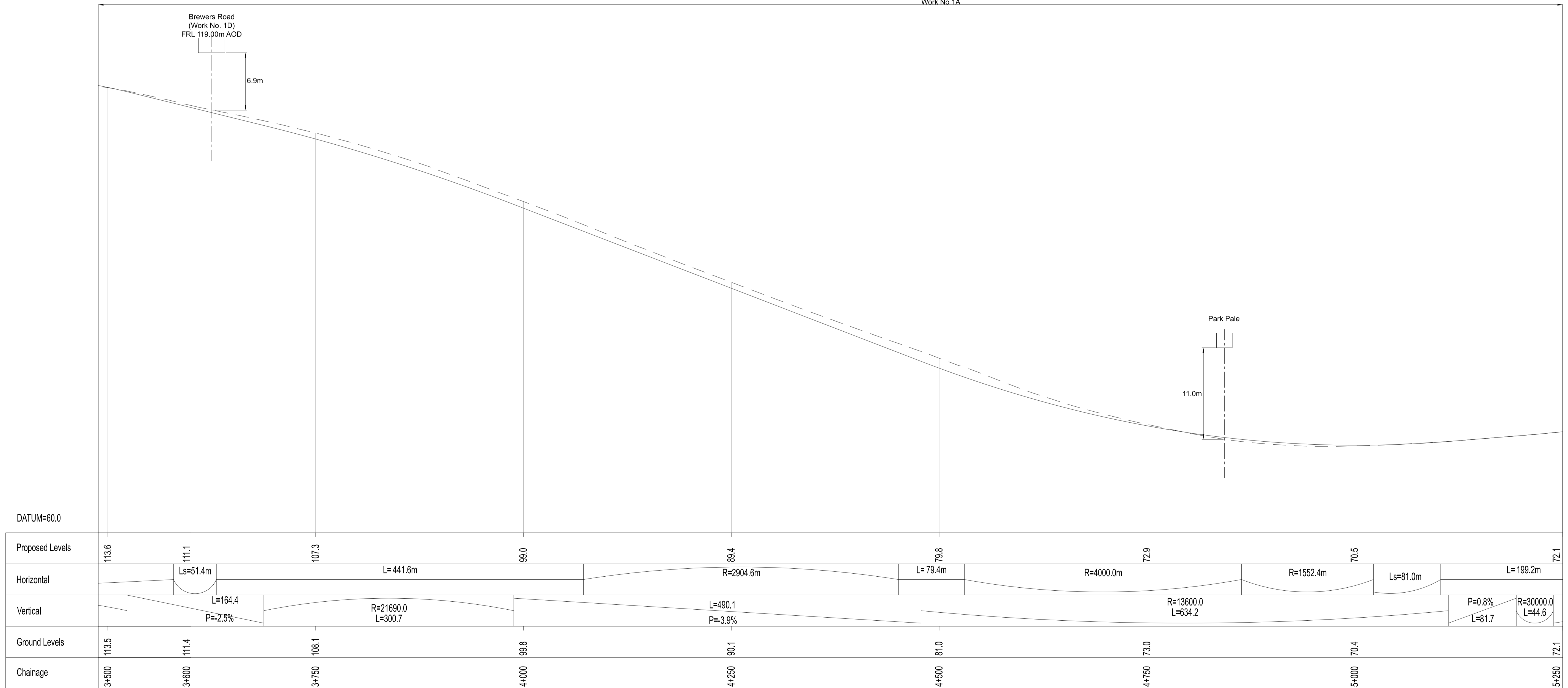
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title:	A2 MAINLINE - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 2				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10252				





PLAN

Work No. 1A



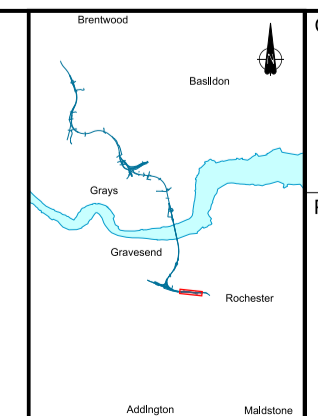
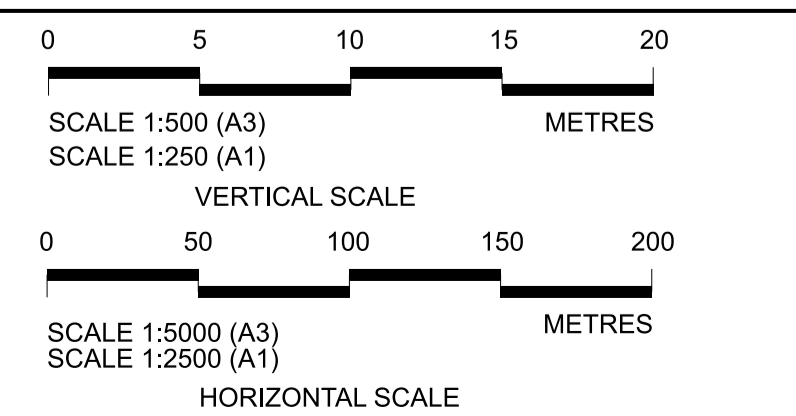
A2 MAINLINE PROFILE

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

**NOTES:**  
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 6. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

**LEGEND:**

- Existing ground level
- Structure
- Proposed road level
- Structures - Bridge
- Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MHWS - Mean High Water Springs
- MLWS - Mean Low Water Springs
- FRL - Finished Road Level
- MA - Maintenance access
- Order Limits

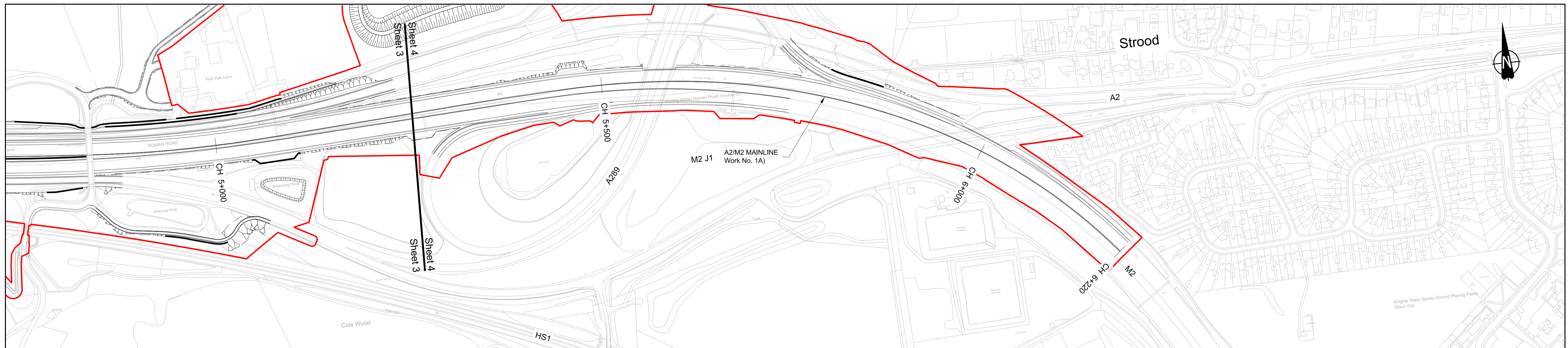


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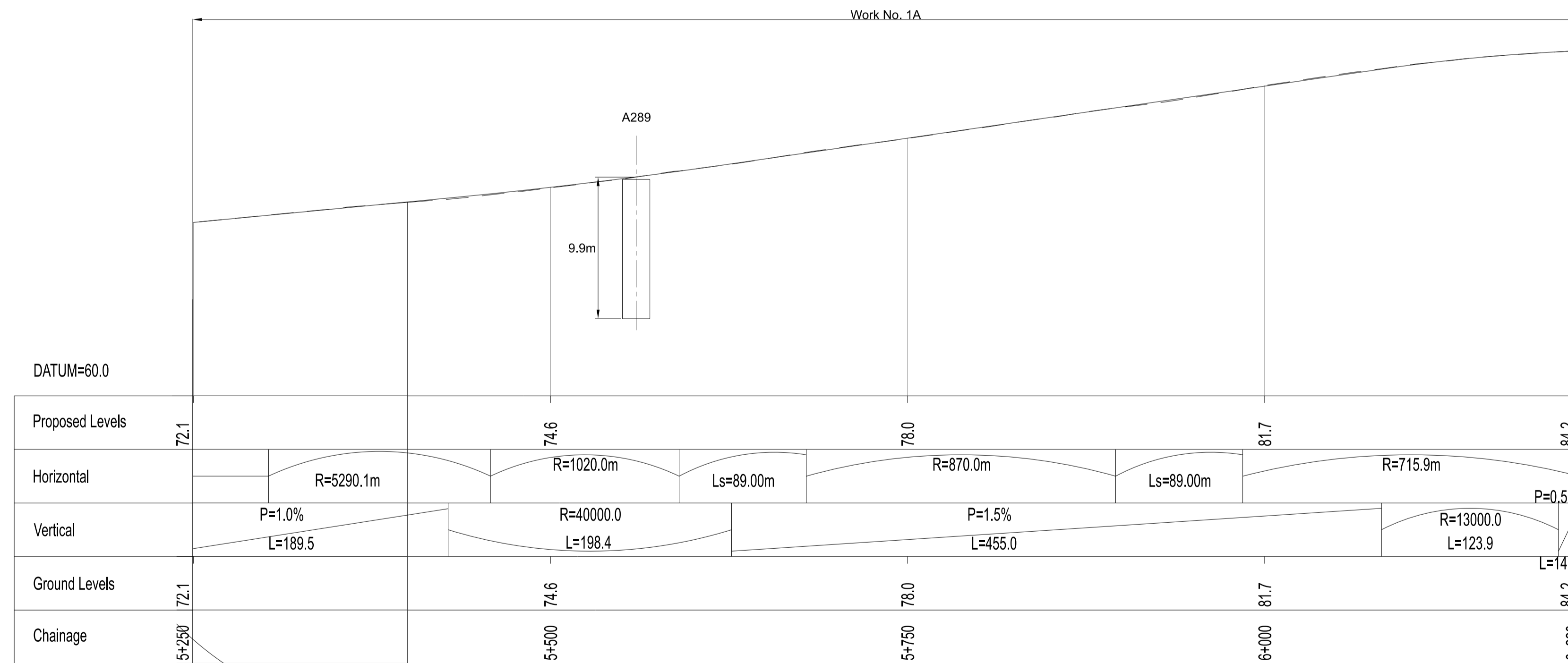
Project: **LOWER THAMES CROSSING**

Status	DCO Examination		Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9		Scale	AS SHOWN		
Drawing title:	A2 MAINLINE - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 3					
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10253					





PLAN



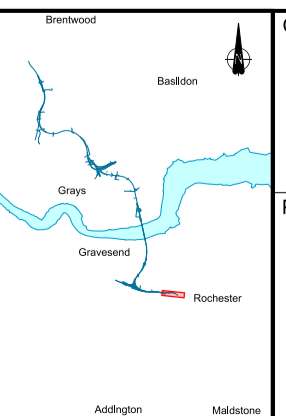
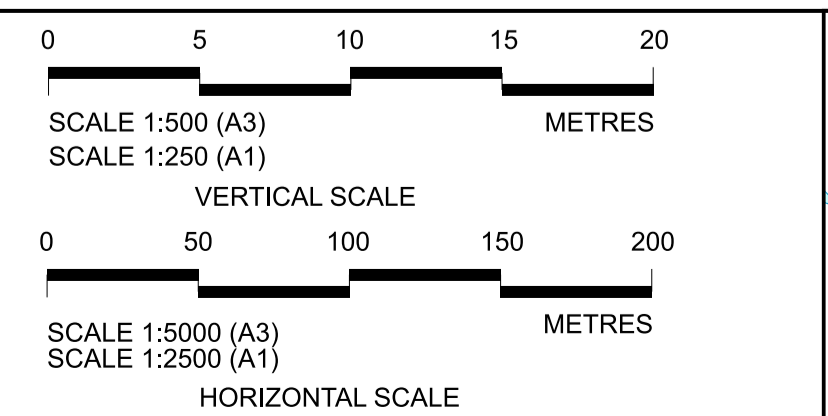
A2 MAINLINE PROFILE

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<table border="1"> <tr> <td>P01</td> <td>S8</td> <td>19/10/2022</td> <td>DCO Application</td> <td>LY</td> <td>BB</td> <td>ASB</td> </tr> <tr> <td>P02</td> <td>S8</td> <td>11/12/2023</td> <td>Deadline 9</td> <td>GP</td> <td>RO</td> <td>ASB</td> </tr> </table>	P01	S8	19/10/2022	DCO Application	LY	BB	ASB	P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
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<table border="1"> <tr> <th>Rev</th> <th>Status</th> <th>Rev. Date</th> <th>Purpose of revision</th> <th>Drawn</th> <th>Chk'd</th> <th>Appr'd</th> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd							
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title:	A2 MAINLINE - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 4				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10254				

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