

Lower Thames Crossing  
**Map book 3: engineering plans**

# Lower Thames Crossing map books

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

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

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

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

## Map book 1: General Arrangements

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

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

## Map book 2: land use plans

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

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

## Permanent works

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

## Temporary works

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

## Compensation land

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

## Replacement land

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

## Map book 3: engineering plans

This book contains engineering drawings in the following order:

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

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

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

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

\* Chainage measures the distance along the route in metres

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


## Large maps


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

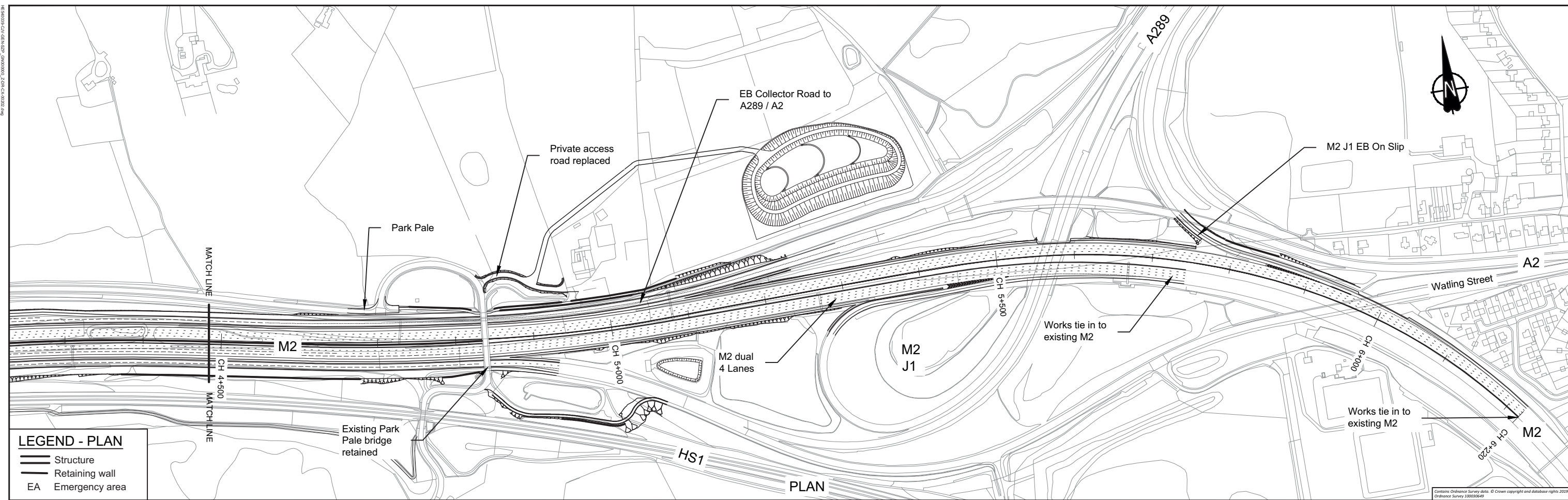
These are:

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



LEGEND:  
 LTC Route

	Client Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title PLAN AND PROFILE GENERAL PLAN
<b>PROPOSALS FOR          CONSULTATION</b>	

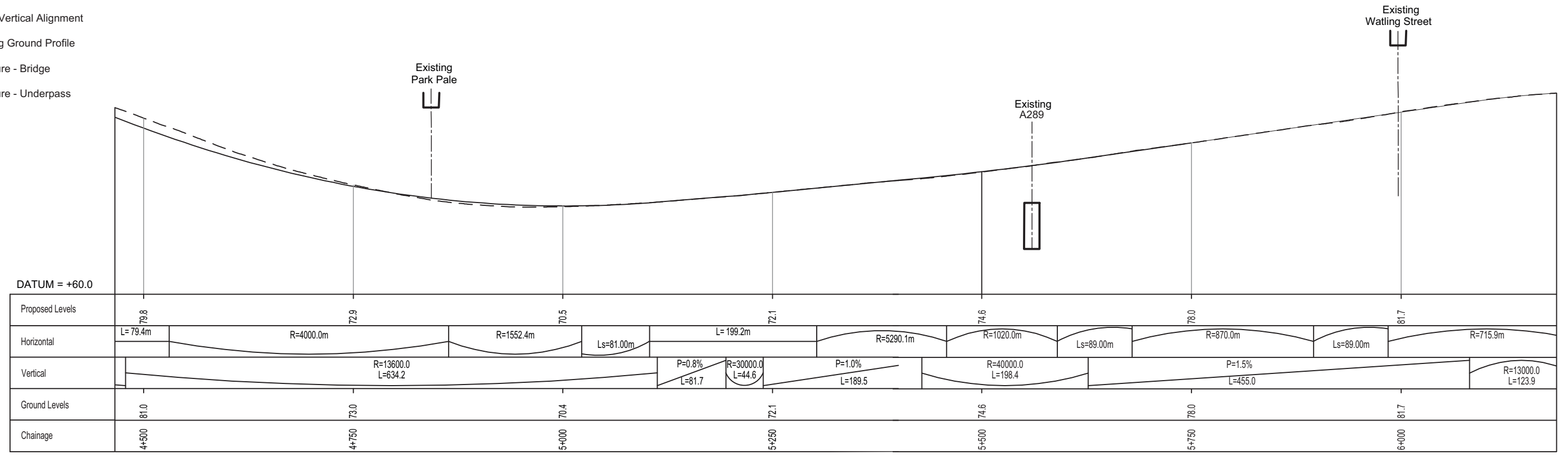


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

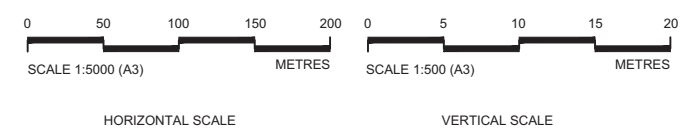
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



PROFILE

- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

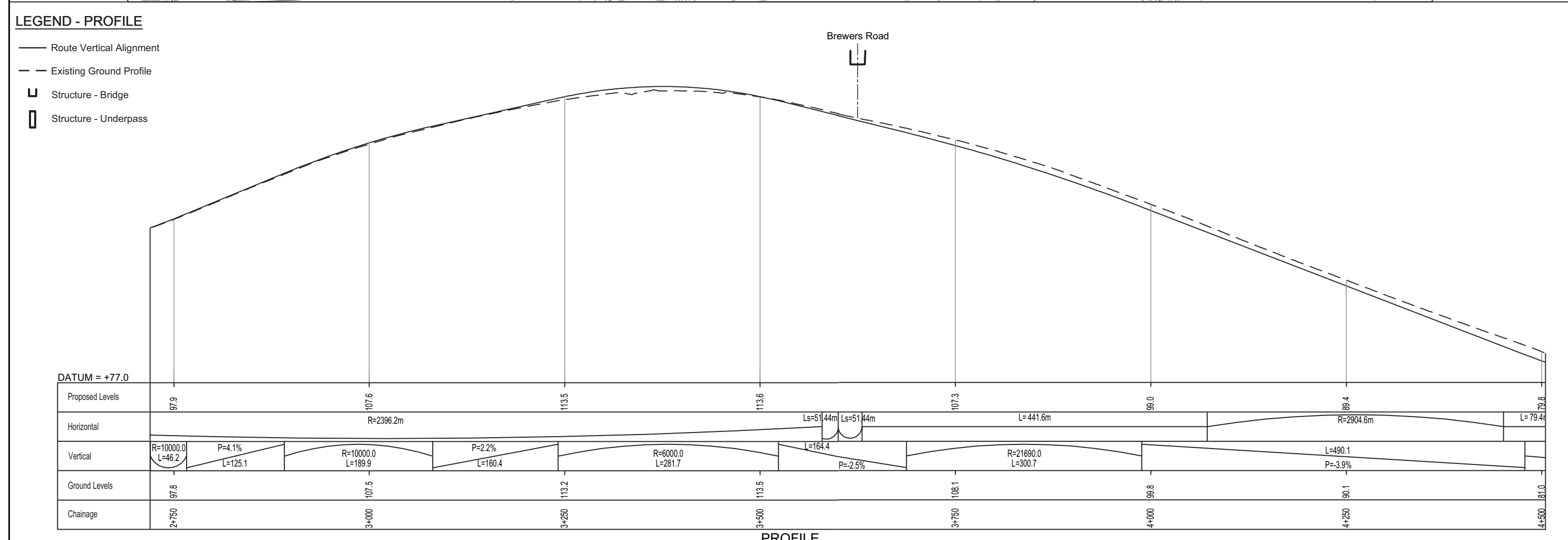
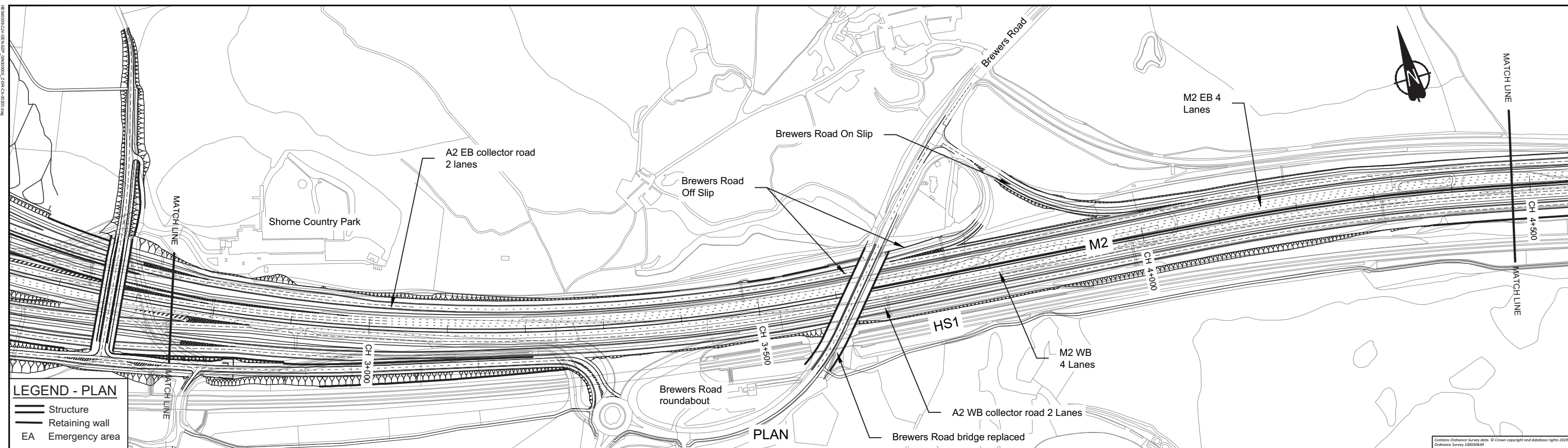


Client

**PROPOSALS FOR CONSULTATION**

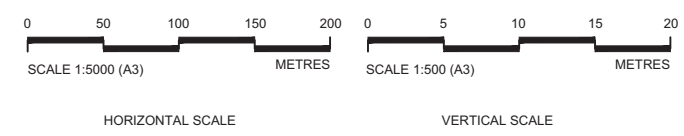
Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 1**



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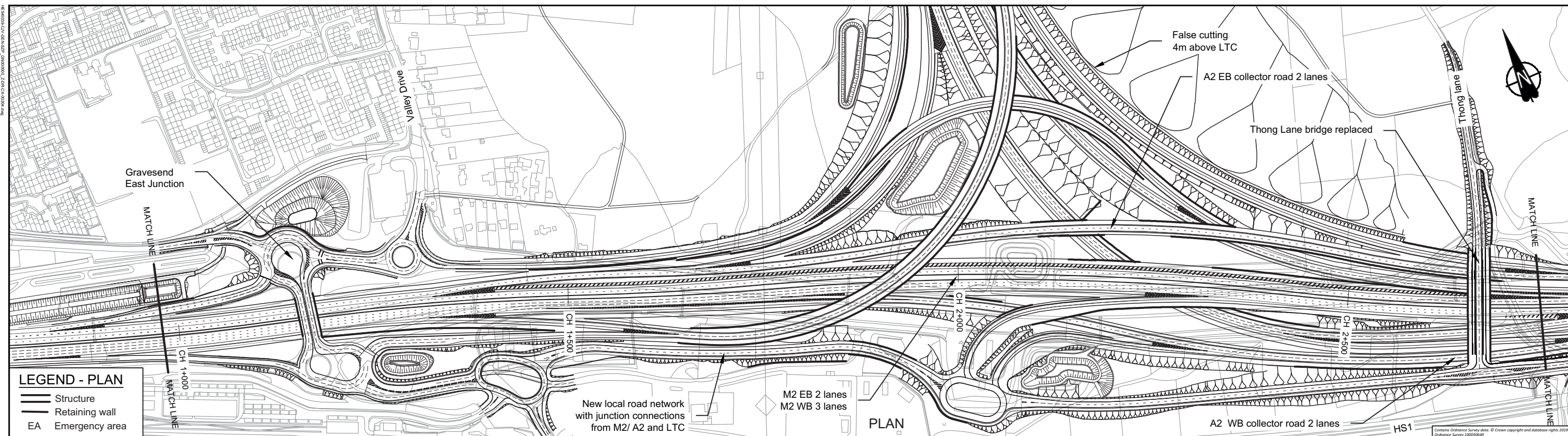


Client **highways england**

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Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 2**

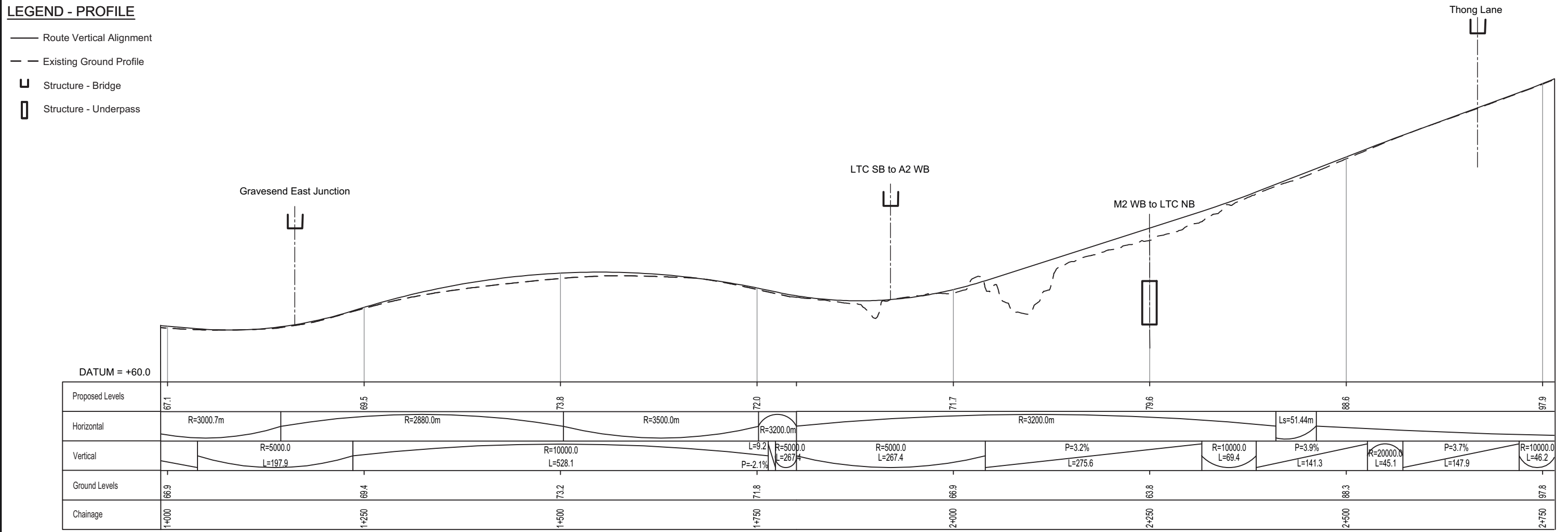


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

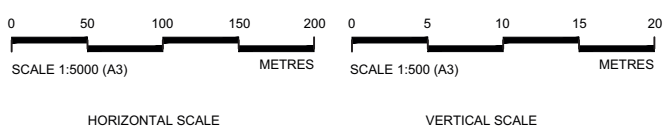
**LEGEND - PROFILE**

- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



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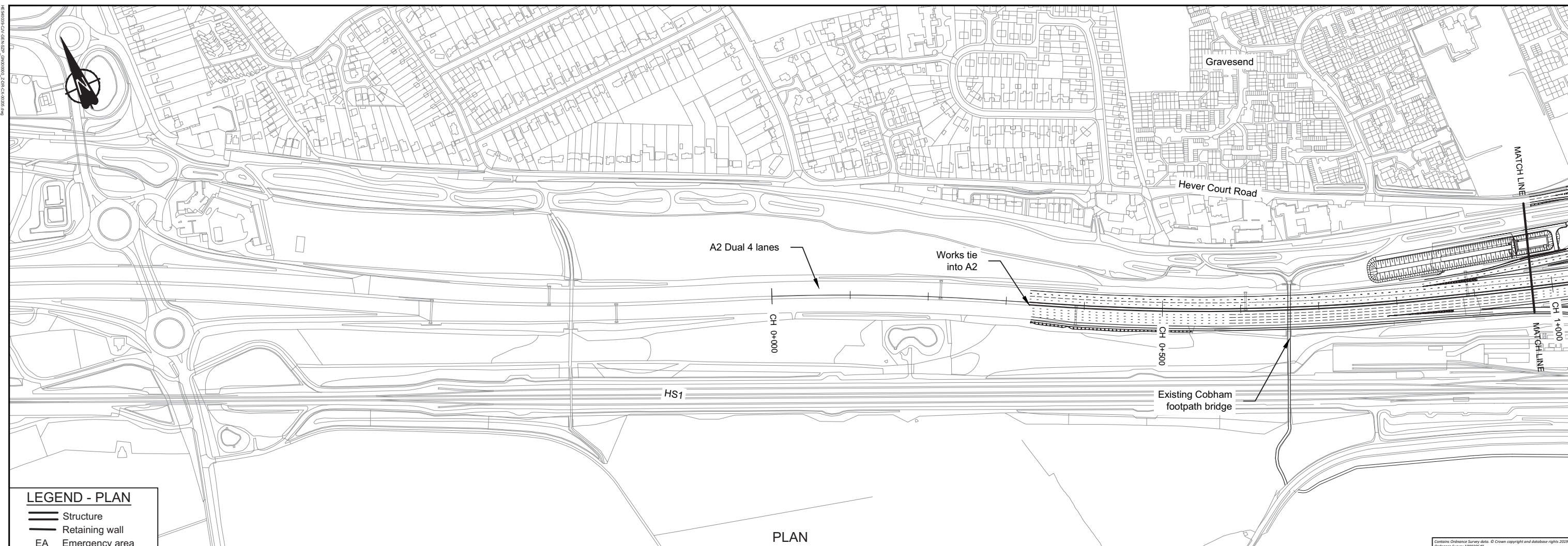


Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 3**



**LEGEND - PLAN**

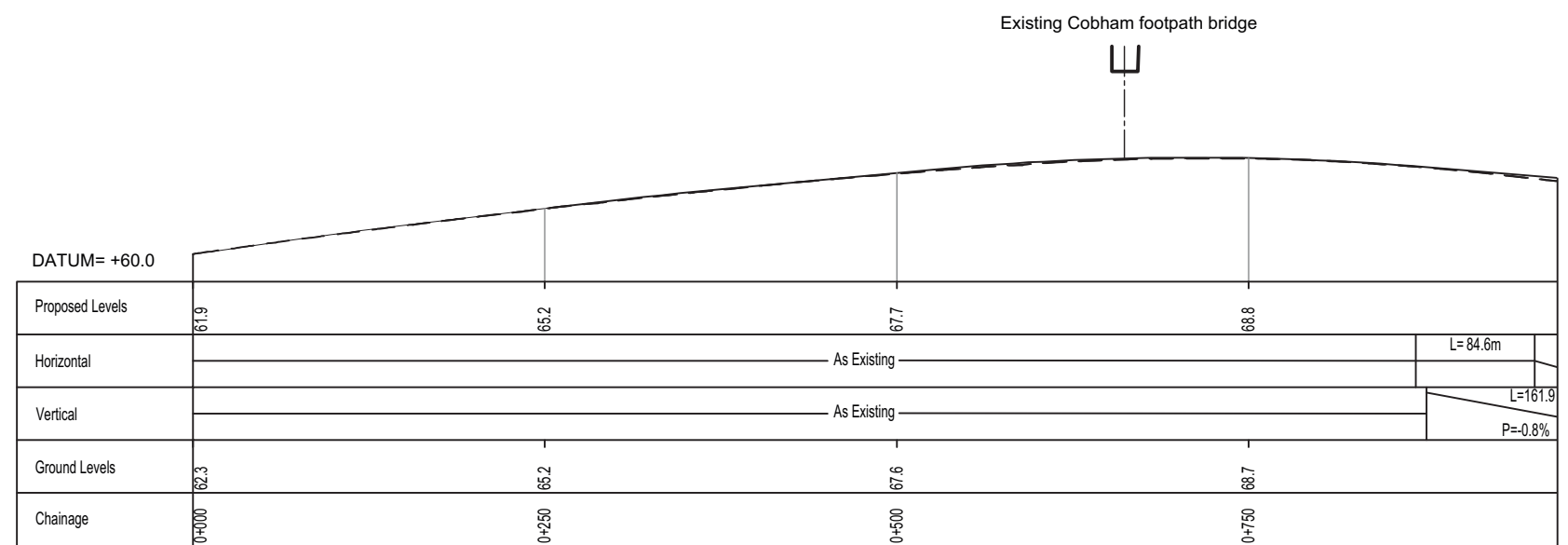
- Structure
- Retaining wall
- Emergency area

PLAN

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**LEGEND - PROFILE**

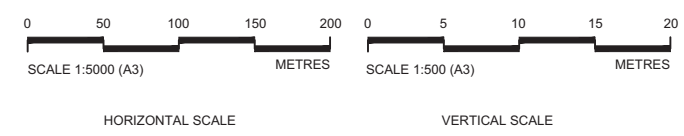
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



PROFILE

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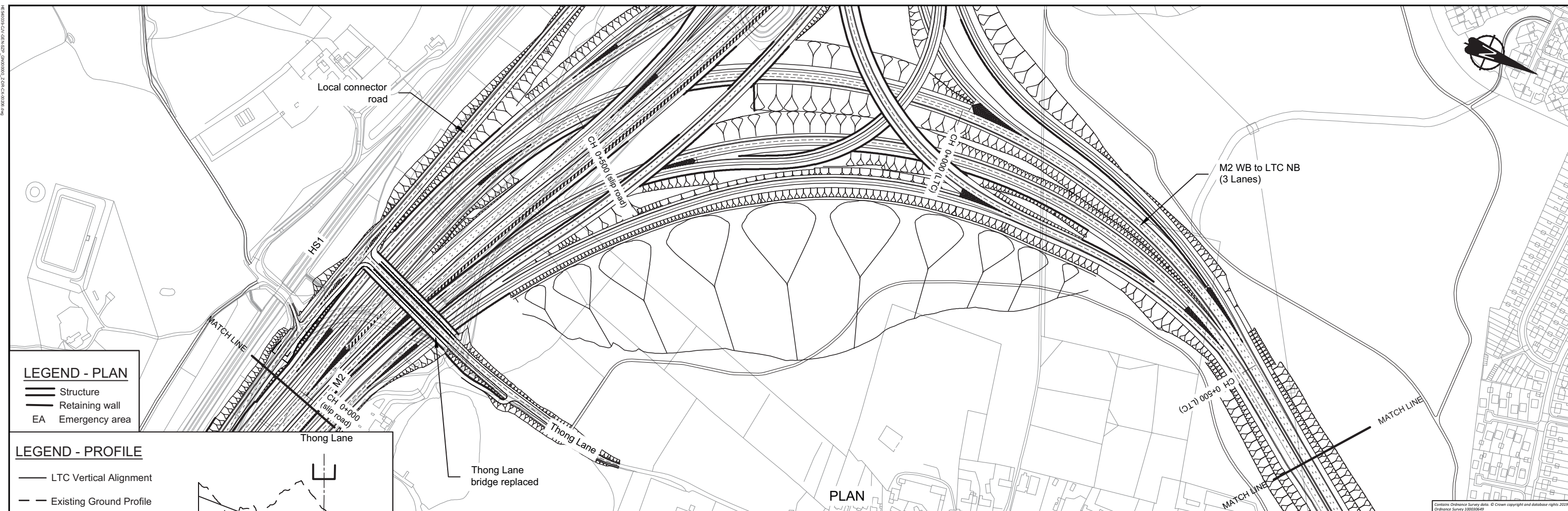


Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 4**

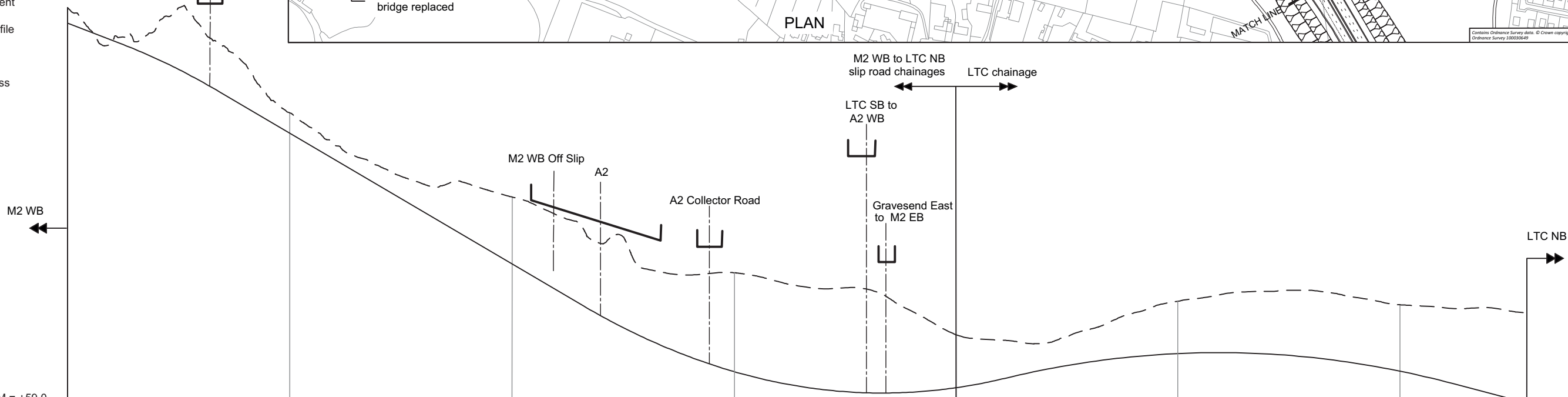


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

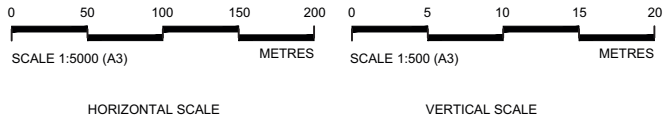


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Vertical	L=59.4, P=-3.8%, R=5500.0, L=111.4, L=406.4, P=-5.9%, R=5781.8, L=478.5, R=5781.8, L=478.5, R=10000.0, L=503.4, L=126.9, P=-2.6%
Ground Levels	103.8, 91.9, 82.5, 74.0, 67.1, 70.8, 70.4
Chainage	0+000, 0+250, 0+500, 0+750, 0+000, 0+250, 0+500

**PROFILE**

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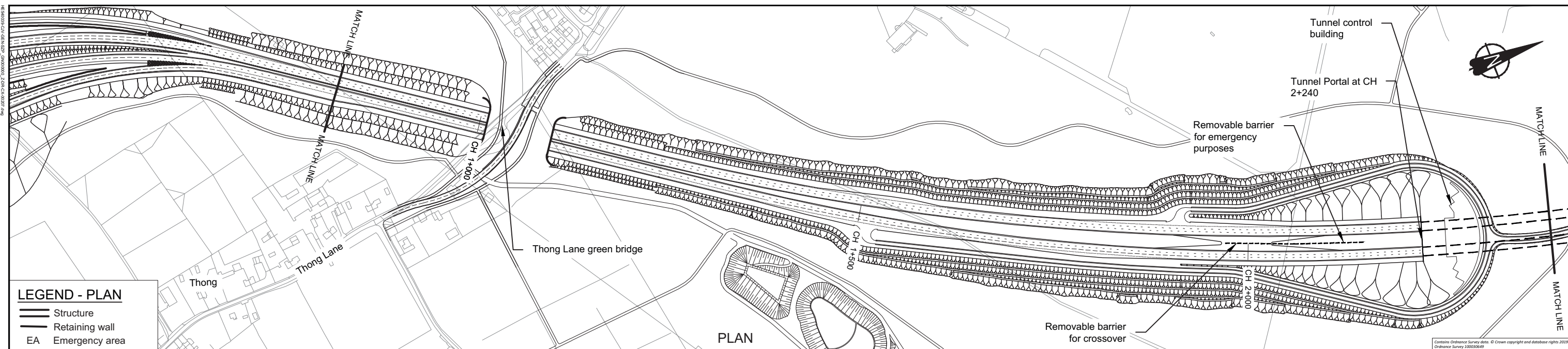
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Drawing title **PLAN AND PROFILE SHEET 3a**



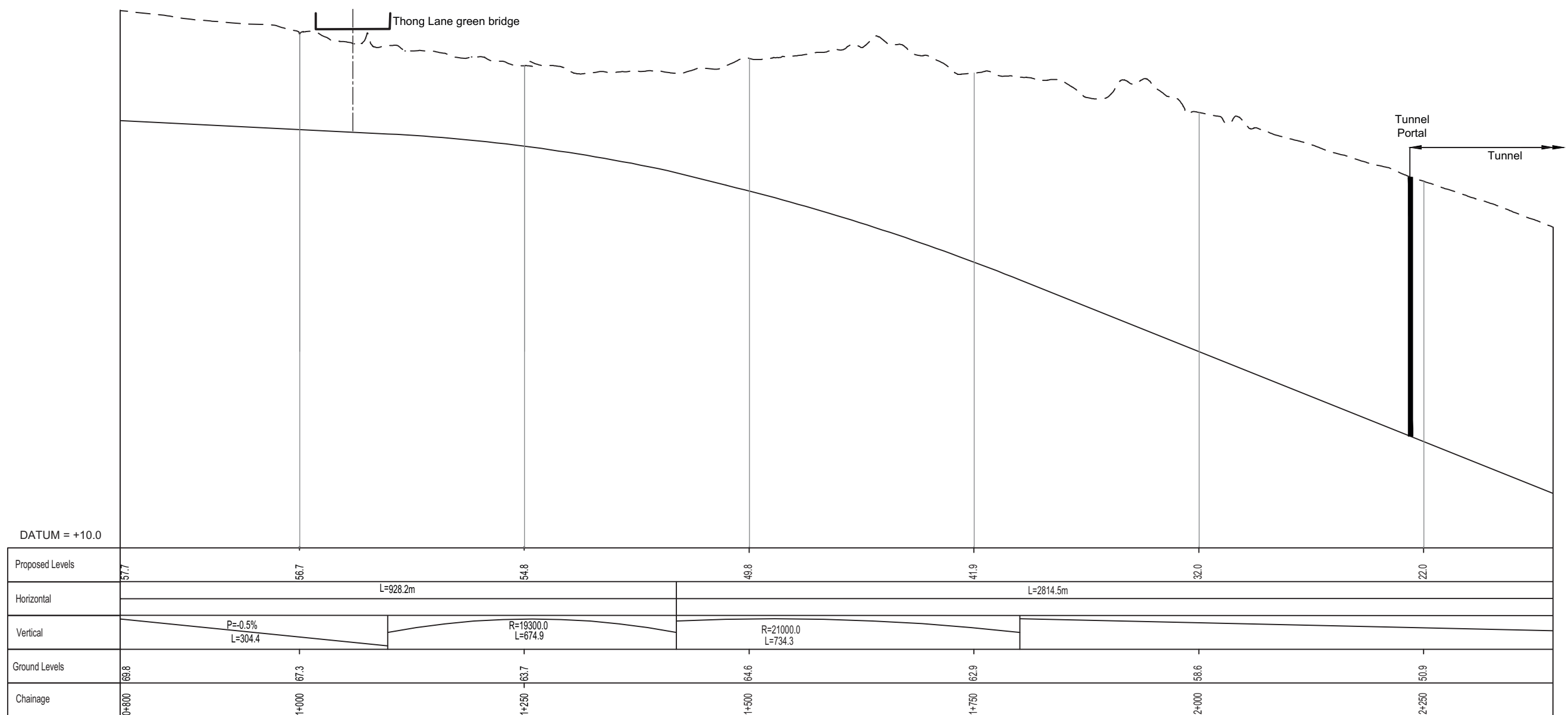


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

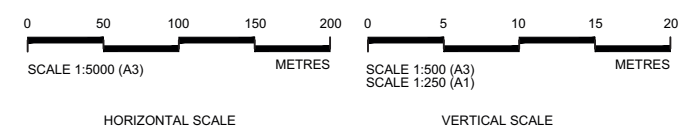
**LEGEND - PROFILE**

- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



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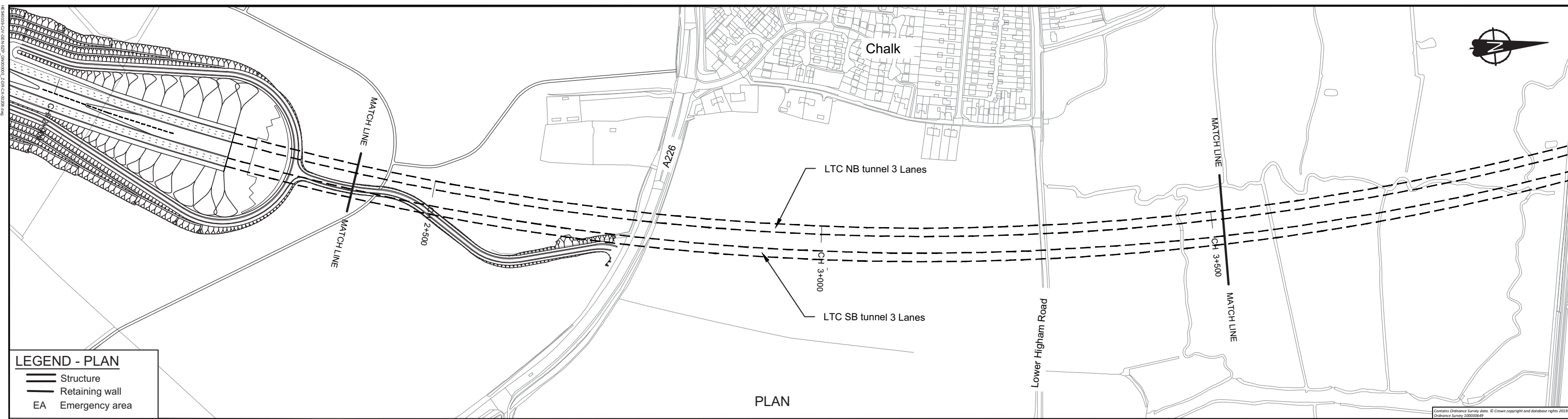


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Drawing title **PLAN AND PROFILE SHEET 5**

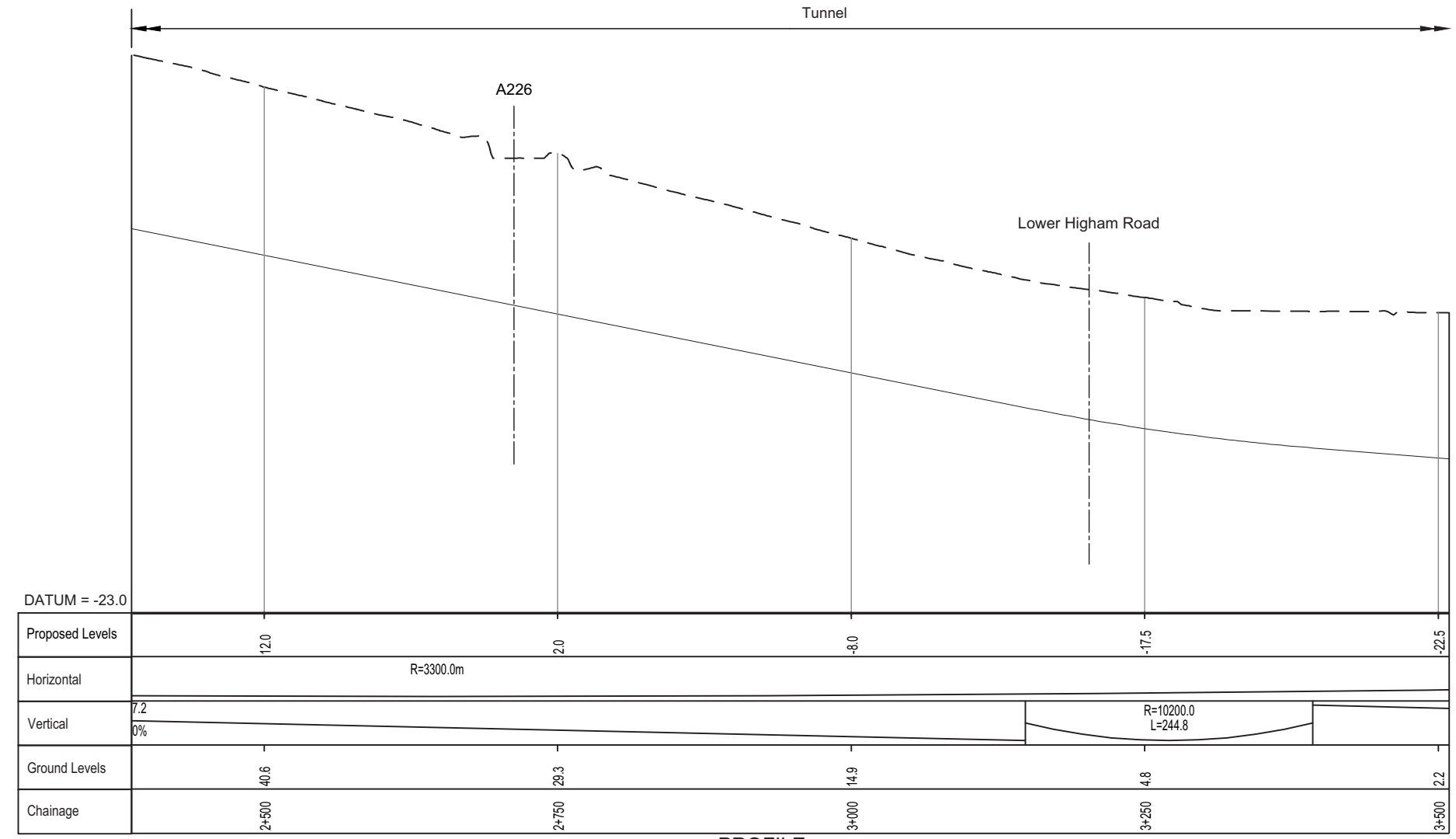


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

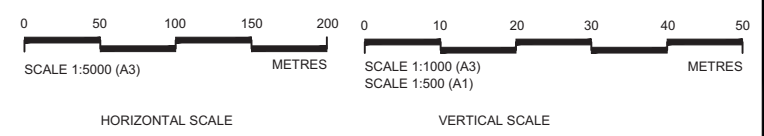
**LEGEND - PROFILE**

- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



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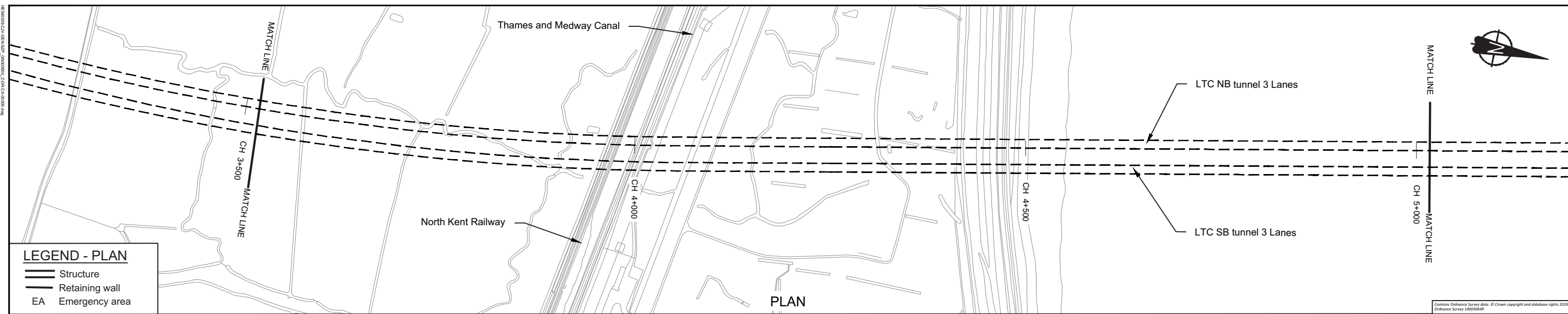


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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 6**

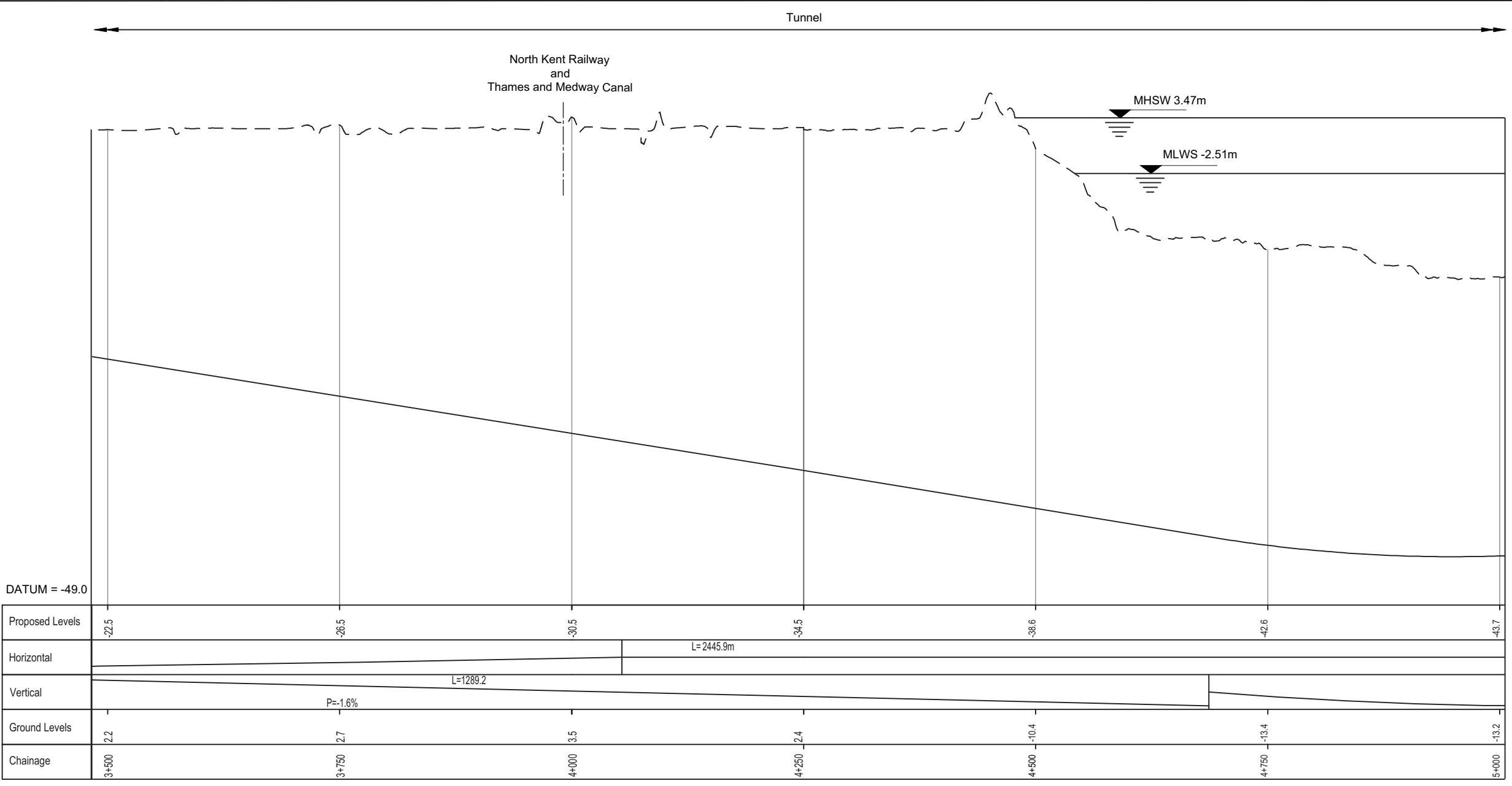


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

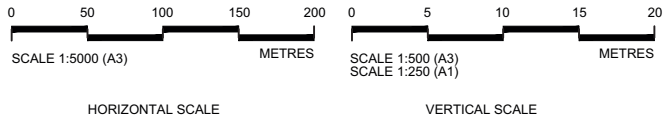
- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



**PROFILE**

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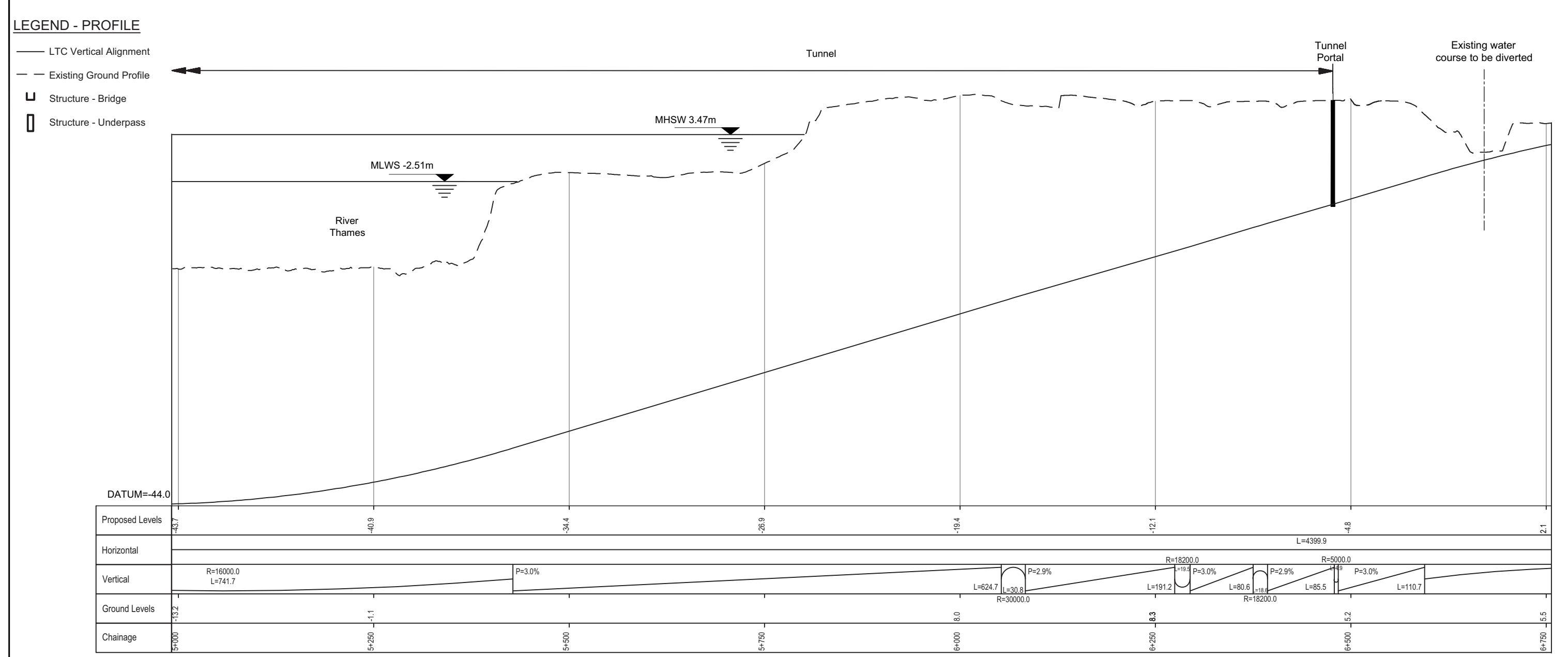
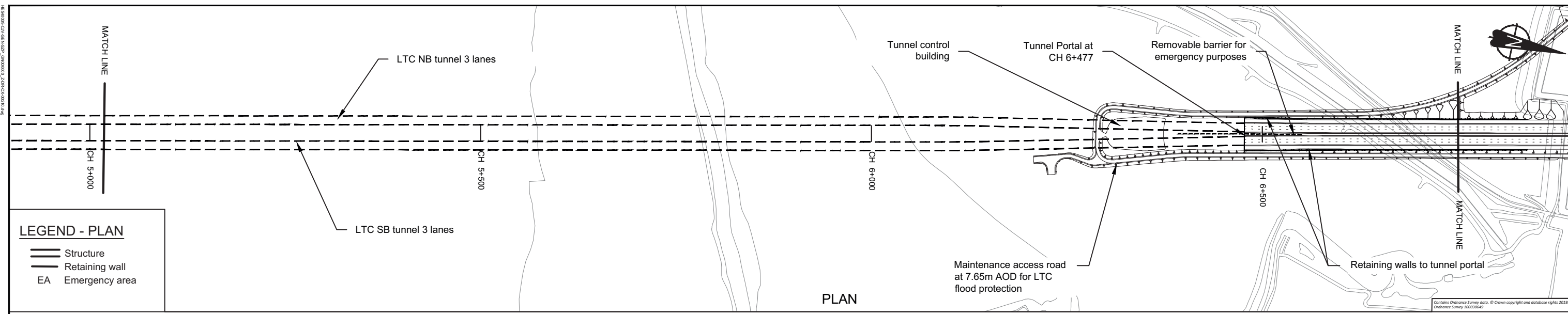


Client

**PROPOSALS FOR CONSULTATION**

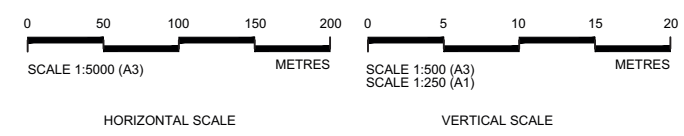
Project LOWER THAMES CROSSING  
 SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 7**



- NOTES**
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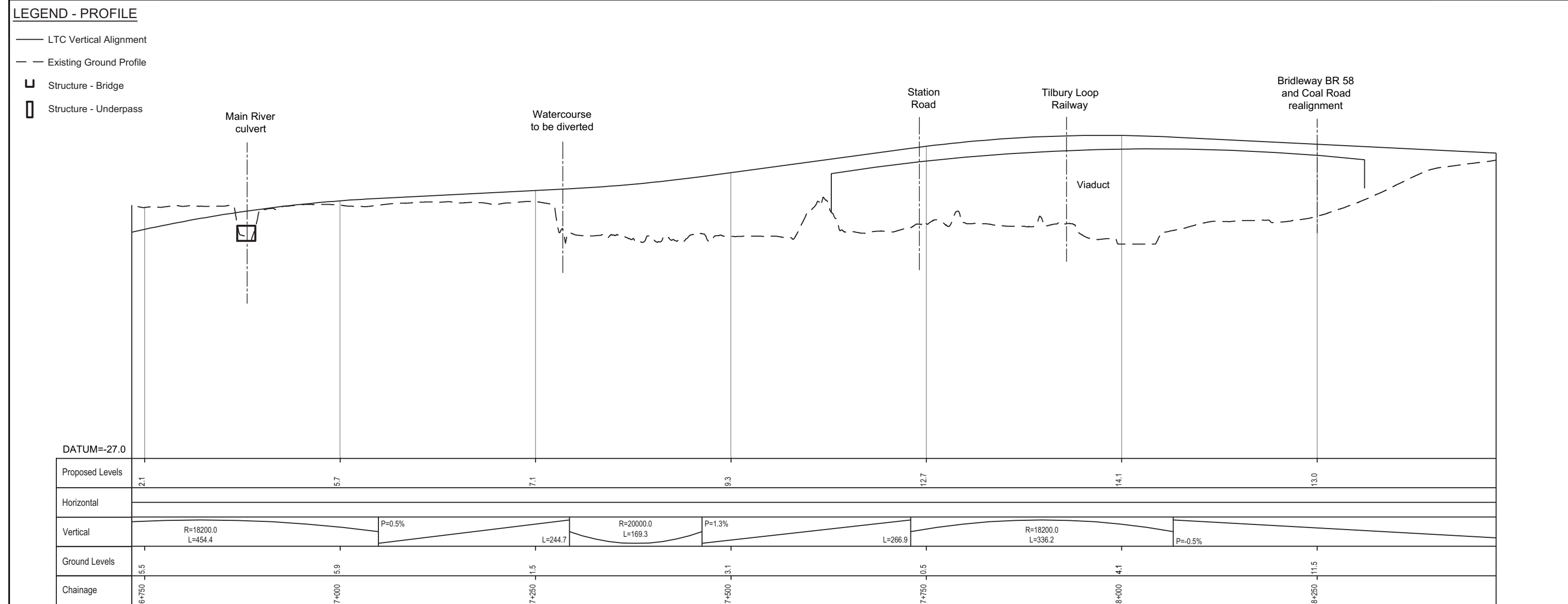
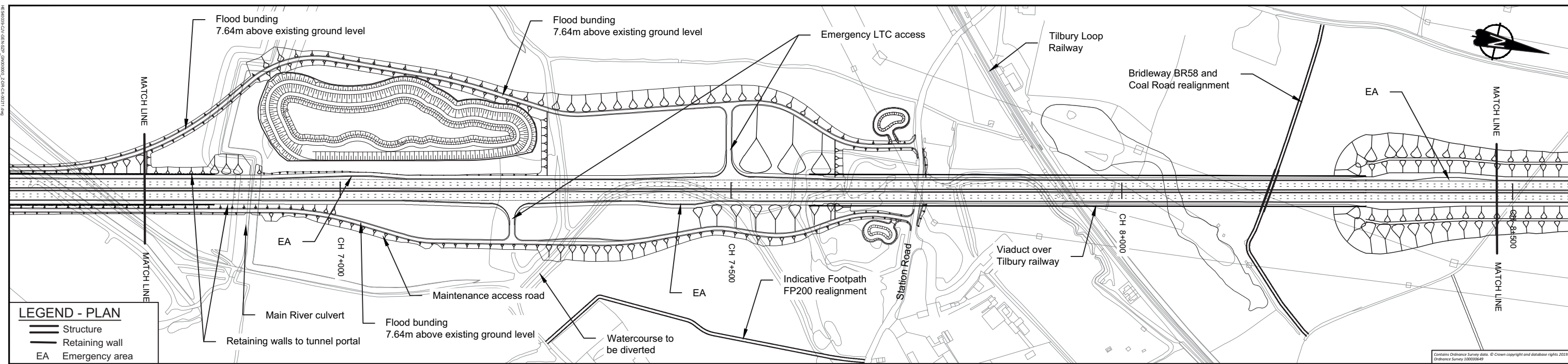


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Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 8**

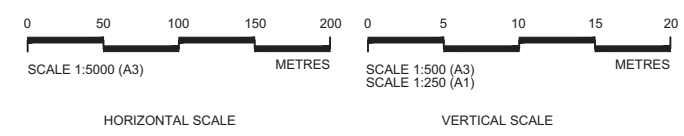


PROFILE

NOTES

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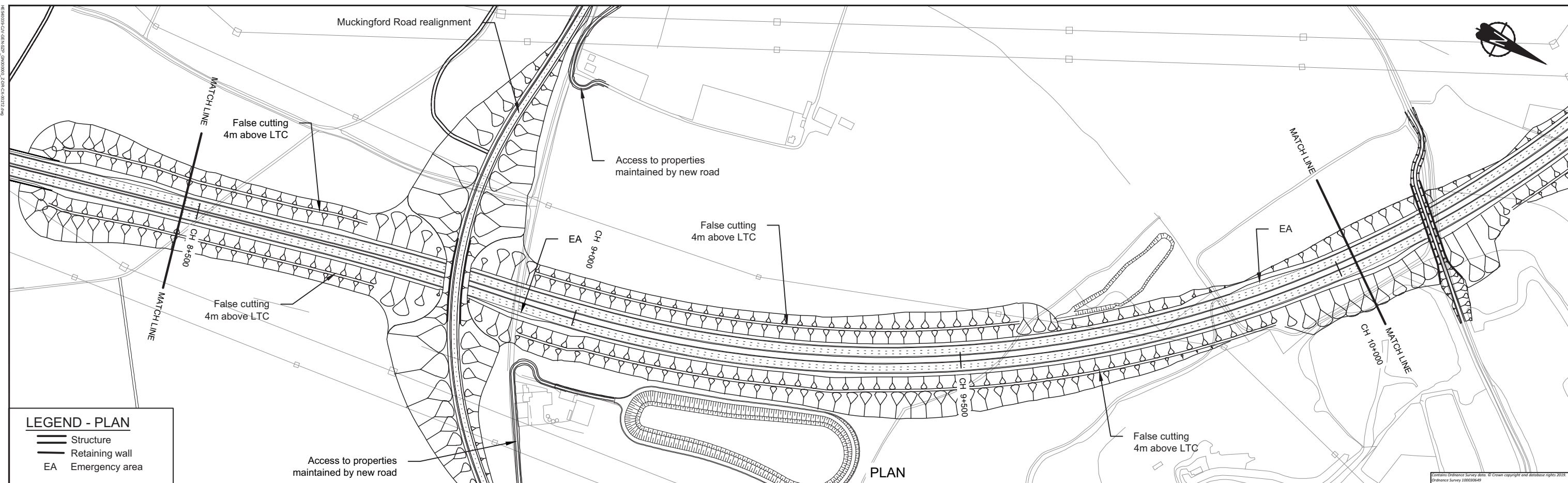


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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 9**

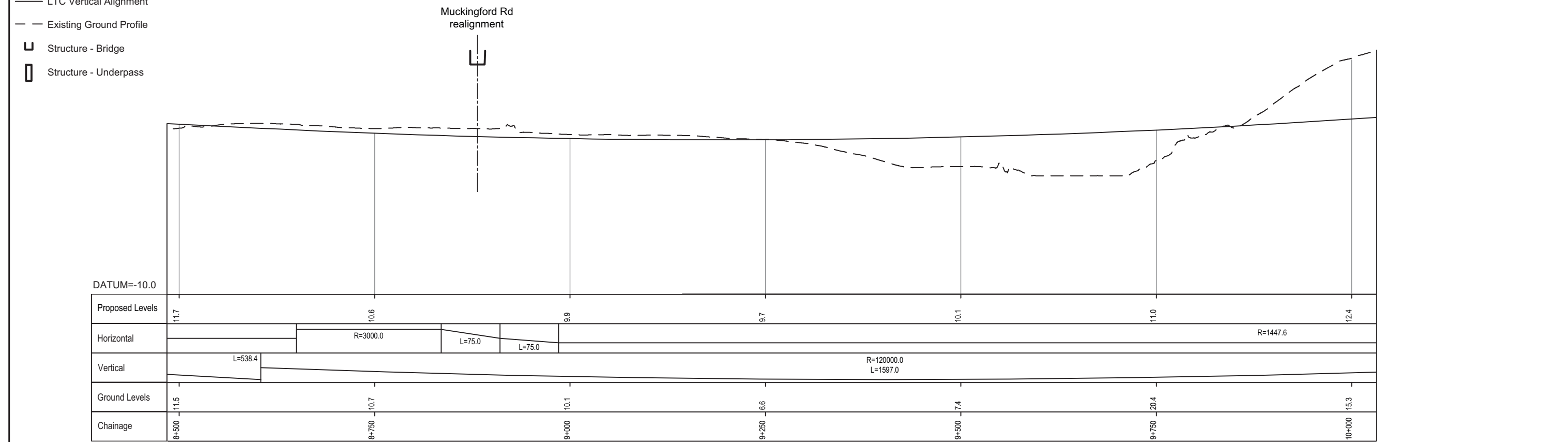


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

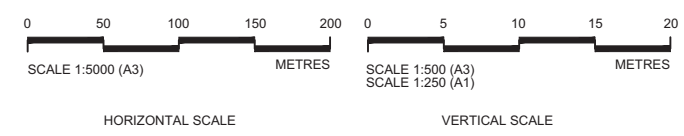
- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



PROFILE

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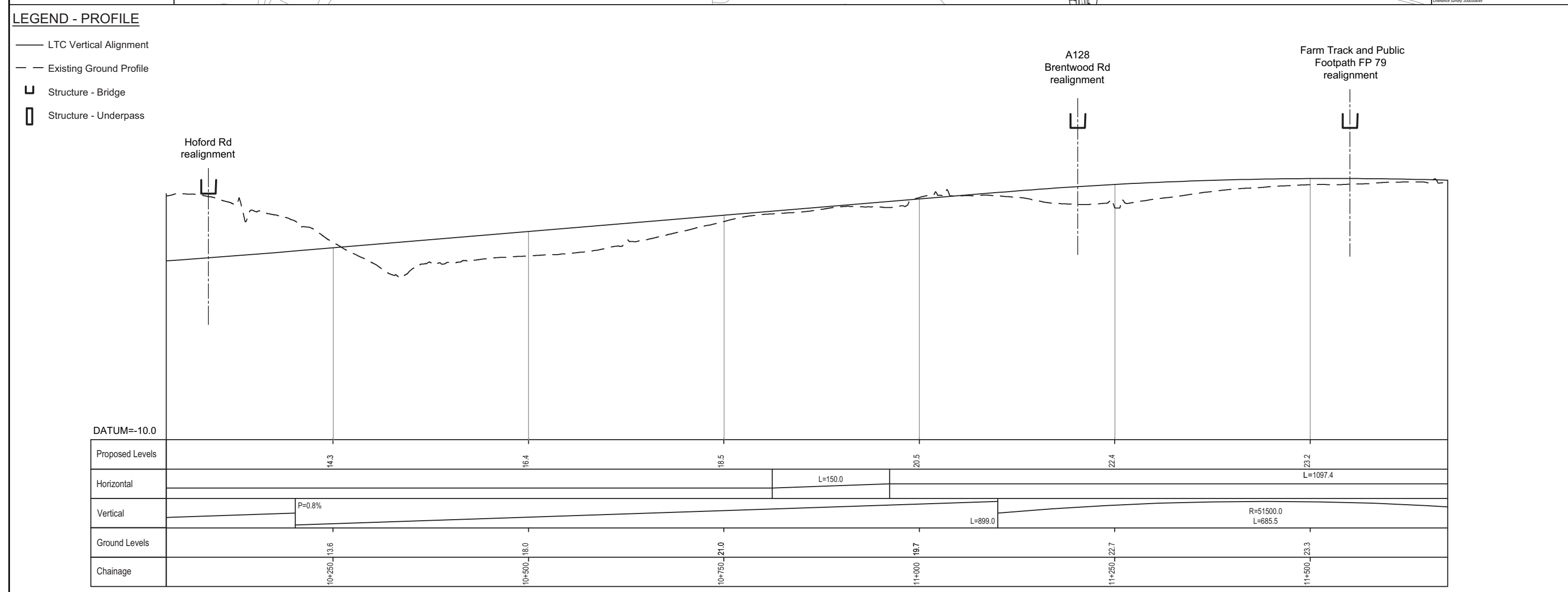
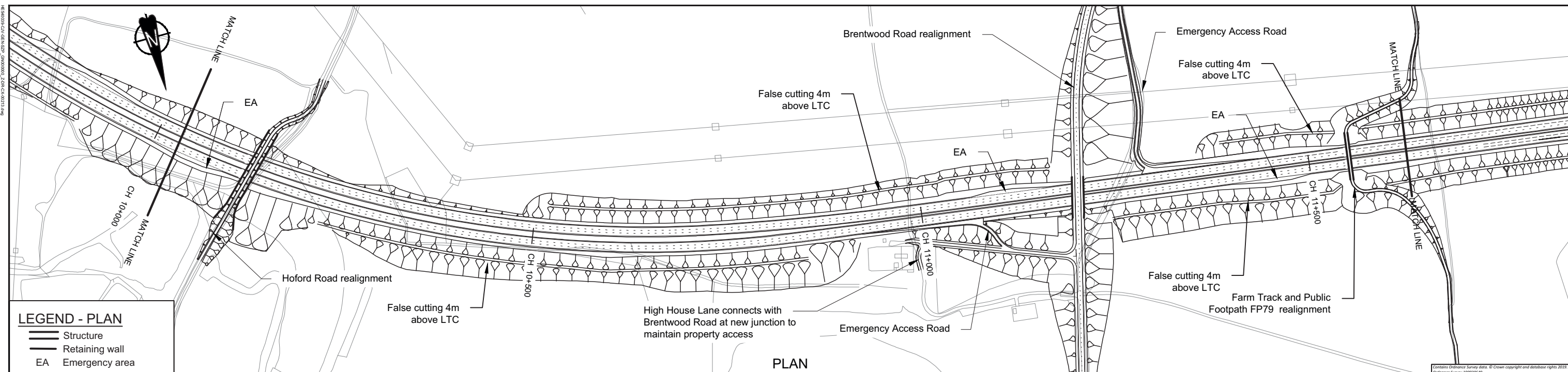


Client

**PROPOSALS FOR CONSULTATION**

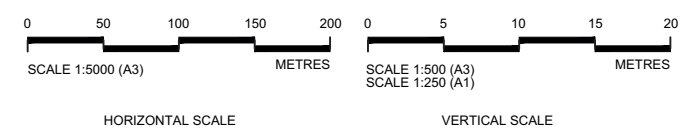
Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 10**



- NOTES**
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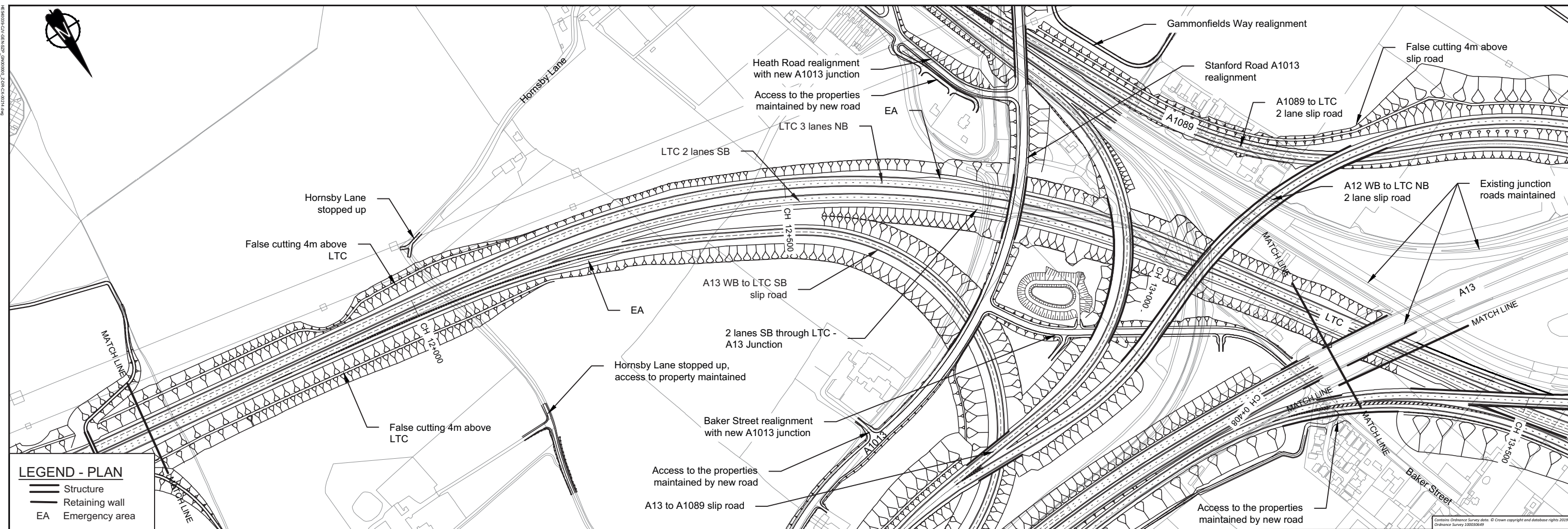


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Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 11**



**LEGEND - PLAN**

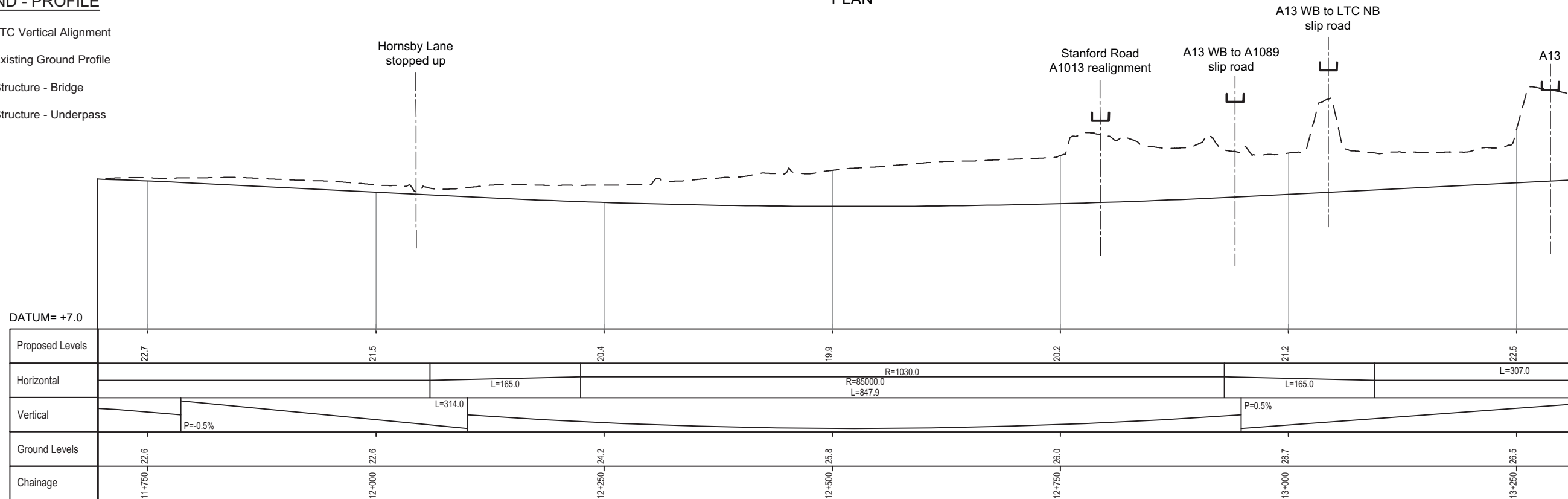
- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**PLAN**

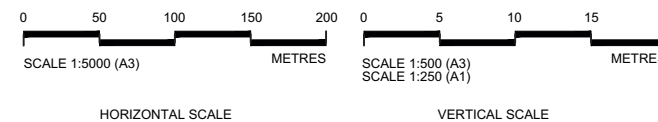
**PROFILE**



**NOTES**

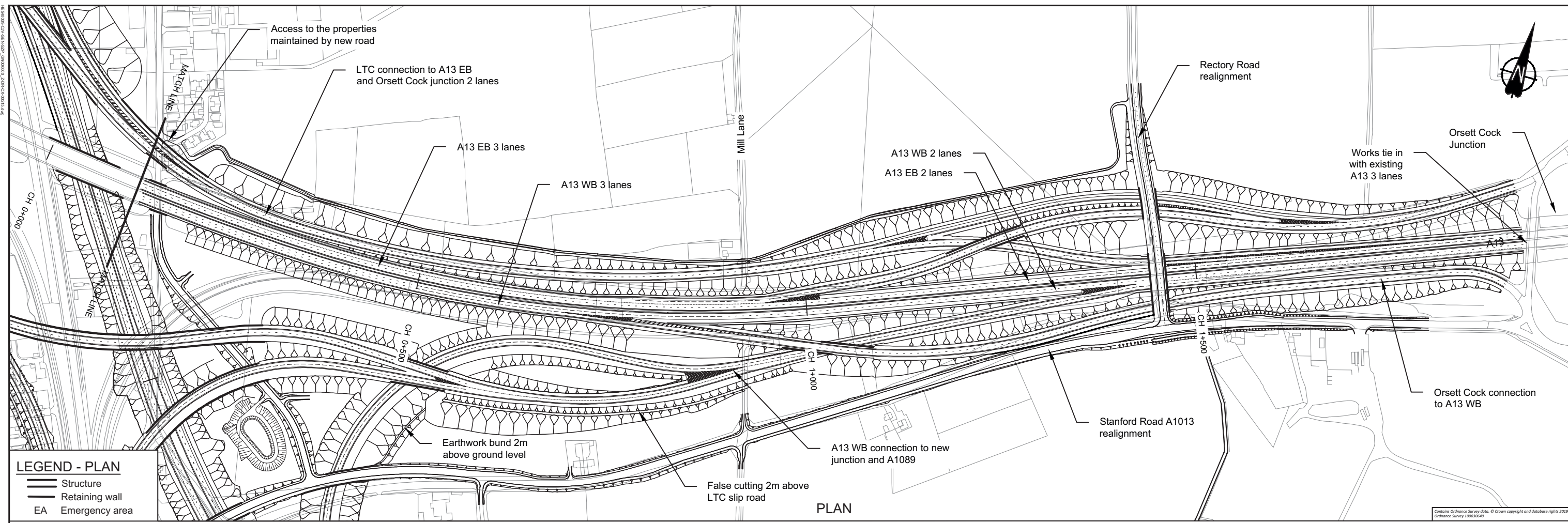
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4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal :10 vertical

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- EB - Eastbound
- SB - Southbound



	Client	Project	LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	<b>PROPOSALS FOR CONSULTATION</b>		
<b>PROPOSALS FOR CONSULTATION</b>		Drawing title	PLAN AND PROFILE SHEET 12



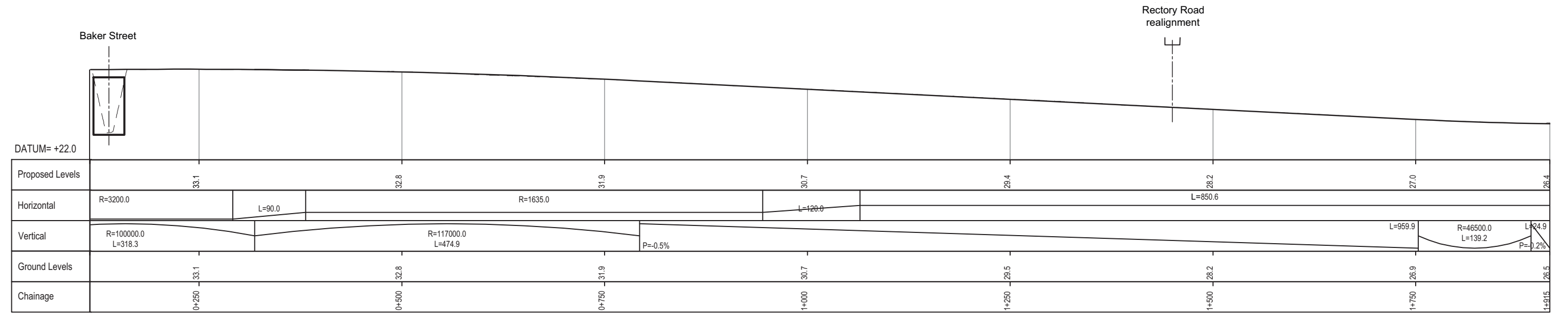


**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

**LEGEND - PROFILE**

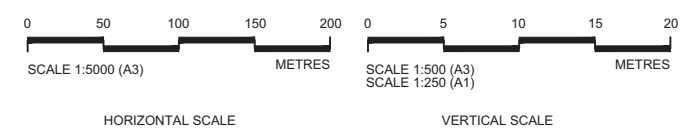
- A13 Alignment
- - Existing Ground Profile
- U Structure - Bridge
- Structure - Underpass



**NOTES**

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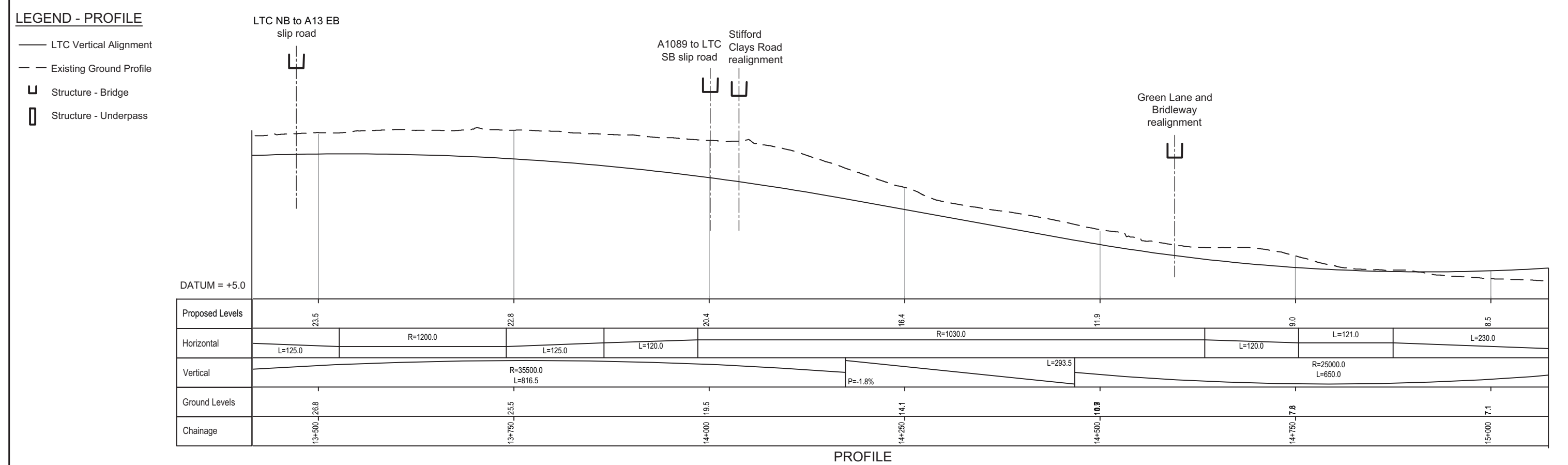
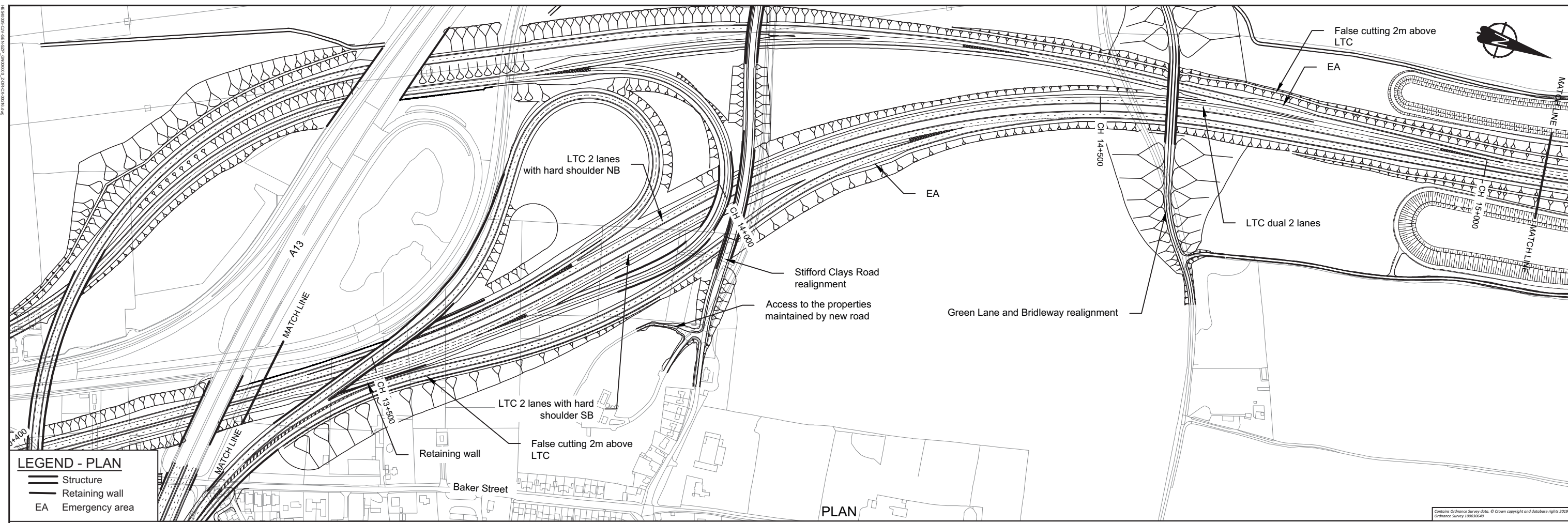


Client **highways england**

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 13**



**NOTES**

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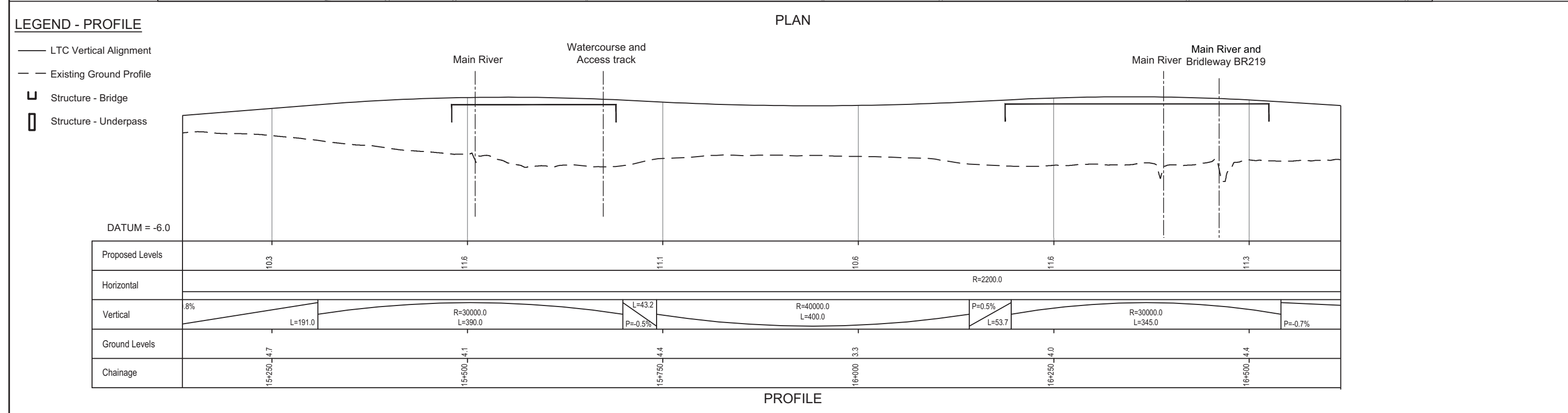
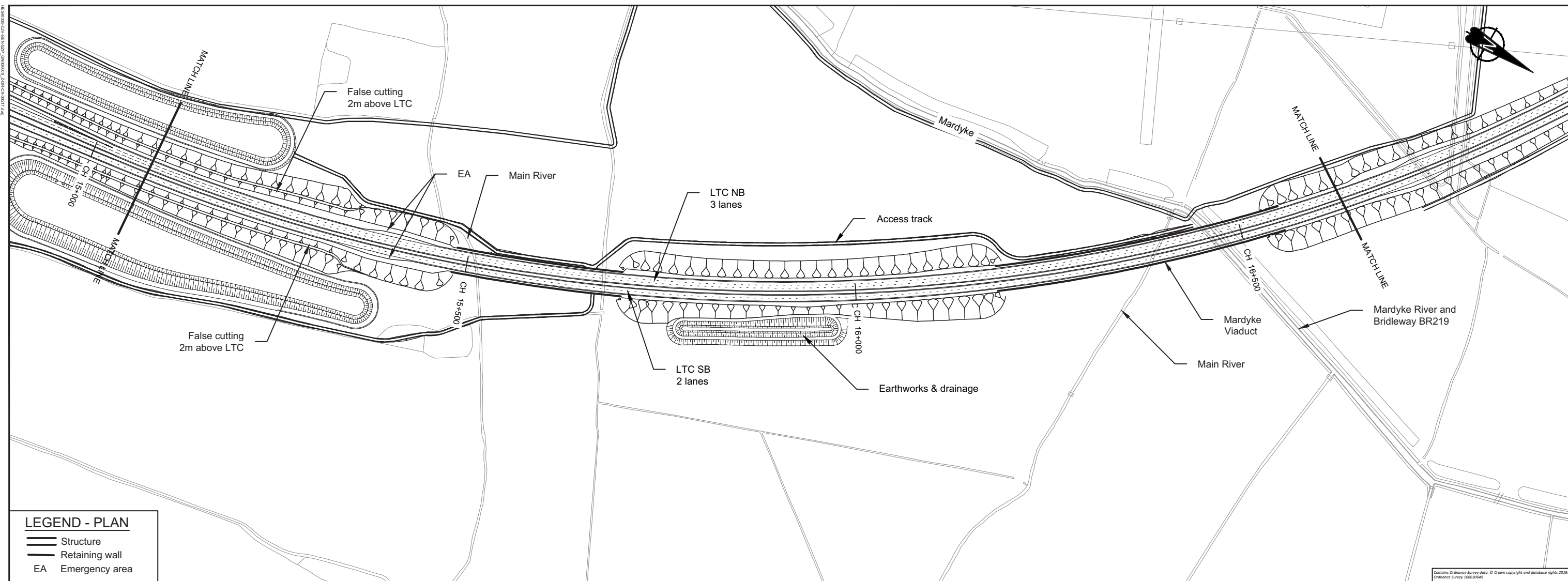


Client **highways england**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

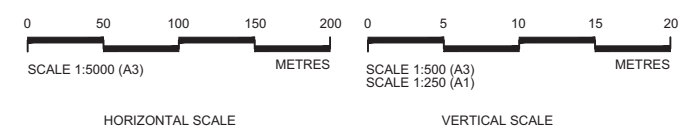
Drawing title **PROPOSALS FOR CONSULTATION**

PLAN AND PROFILE SHEET 14



- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

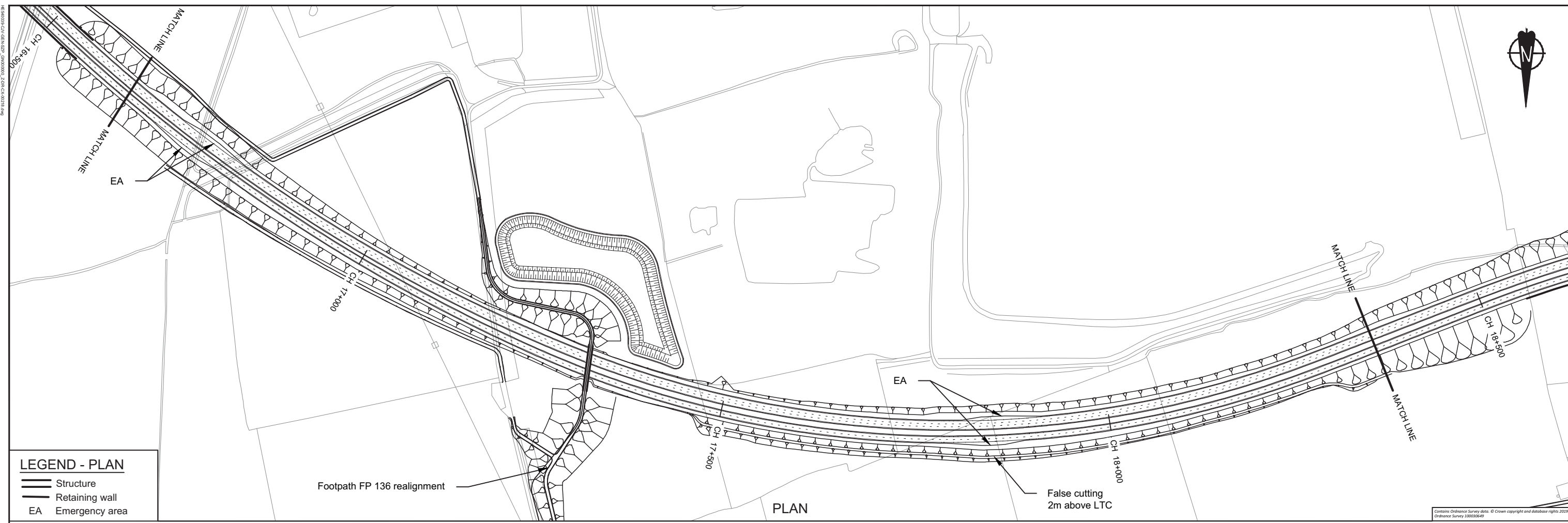


Client **highways england**

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 15**



**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

Footpath FP 136 realignment

False cutting  
2m above LTC

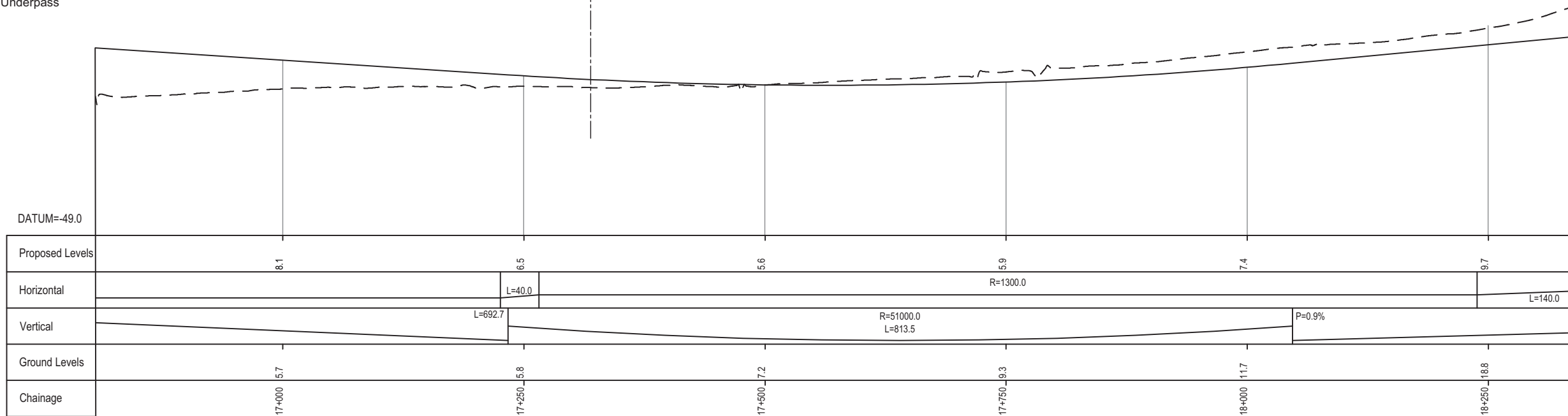
PLAN

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**LEGEND - PROFILE**

- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

Footpath FP 136  
realignment

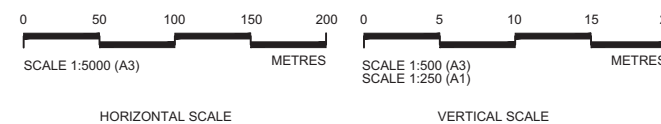


PROFILE

**NOTES**

1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal :10 vertical

- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound

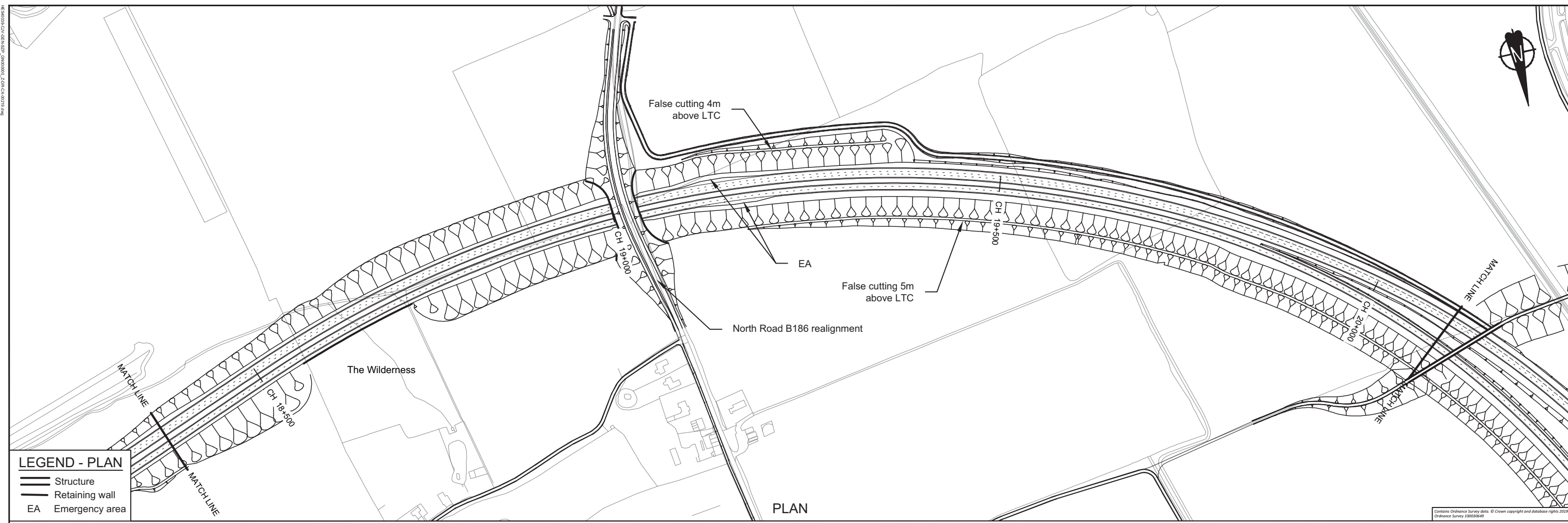


Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 16**



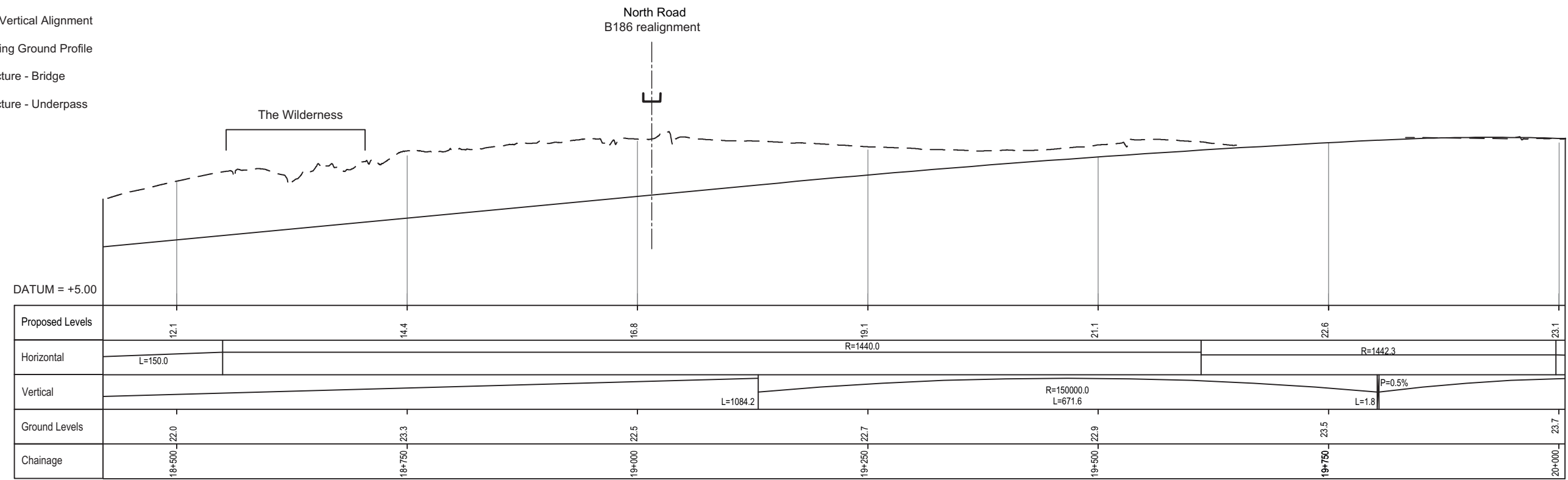
**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

PLAN

**LEGEND - PROFILE**

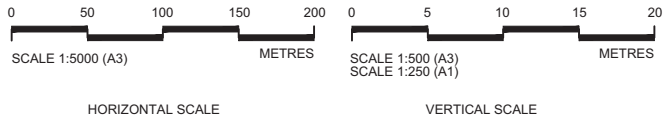
- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



PROFILE

- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

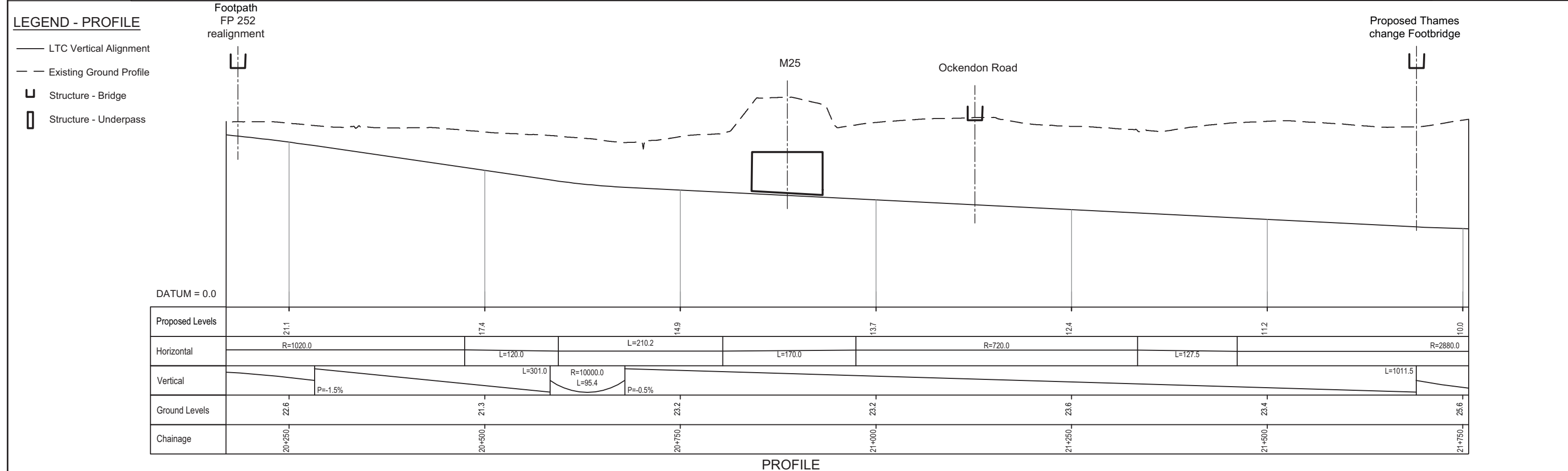
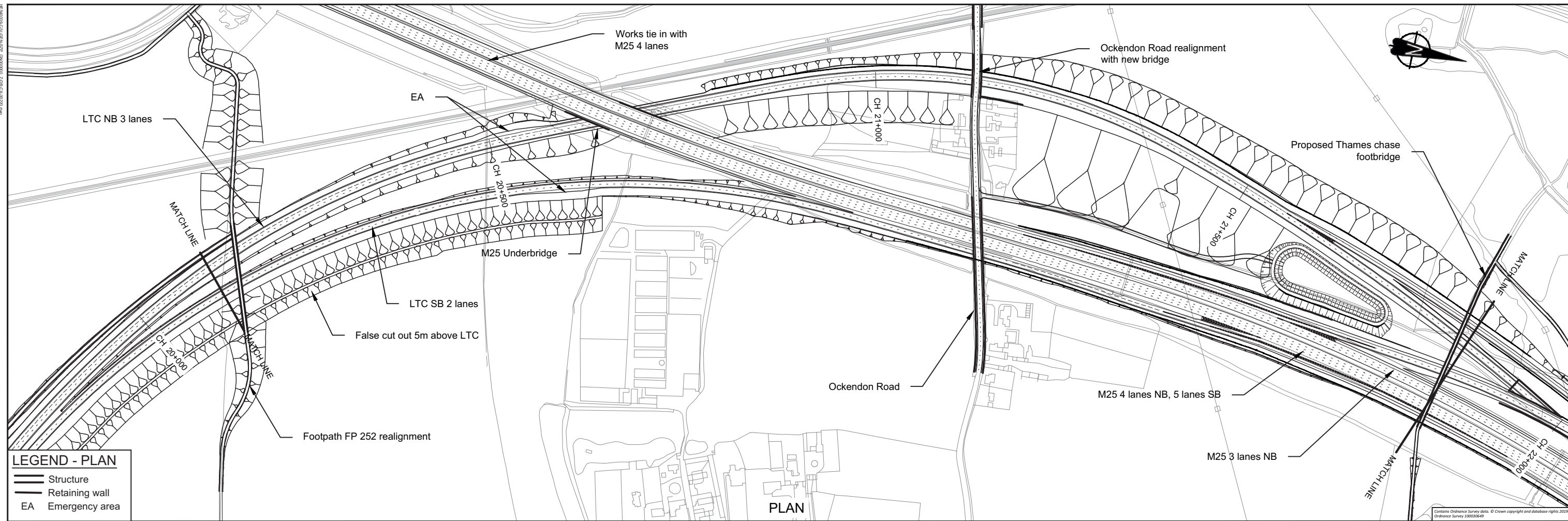


Client

**PROPOSALS FOR CONSULTATION**

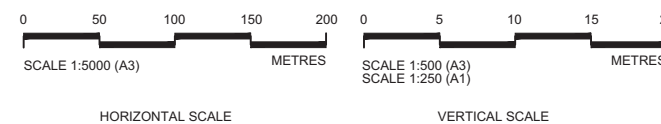
Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 17**



- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

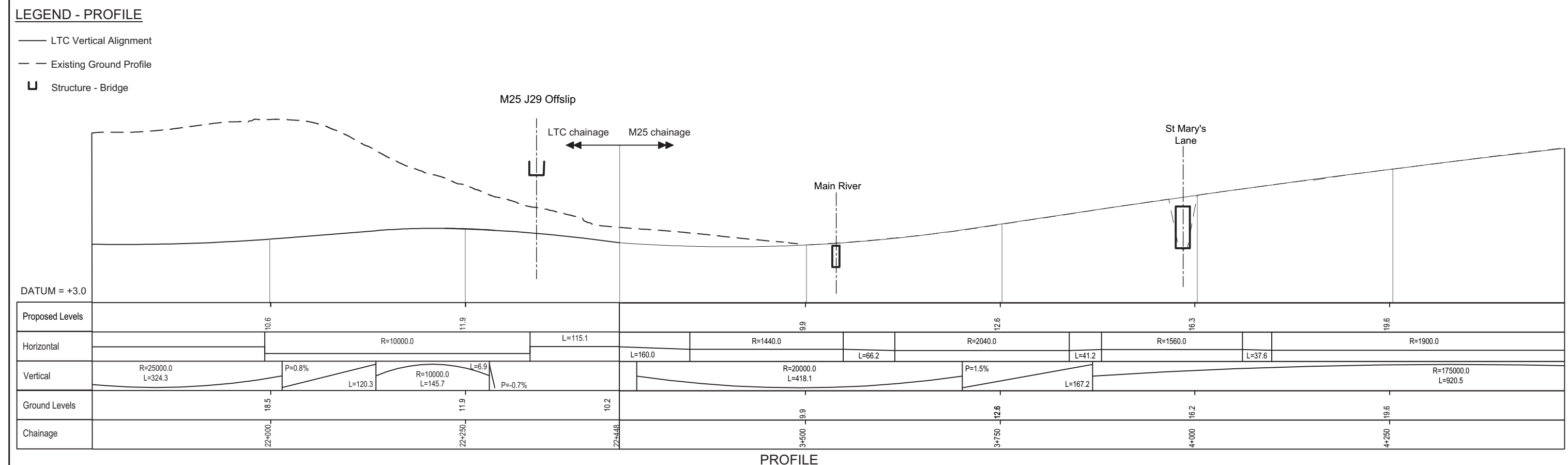
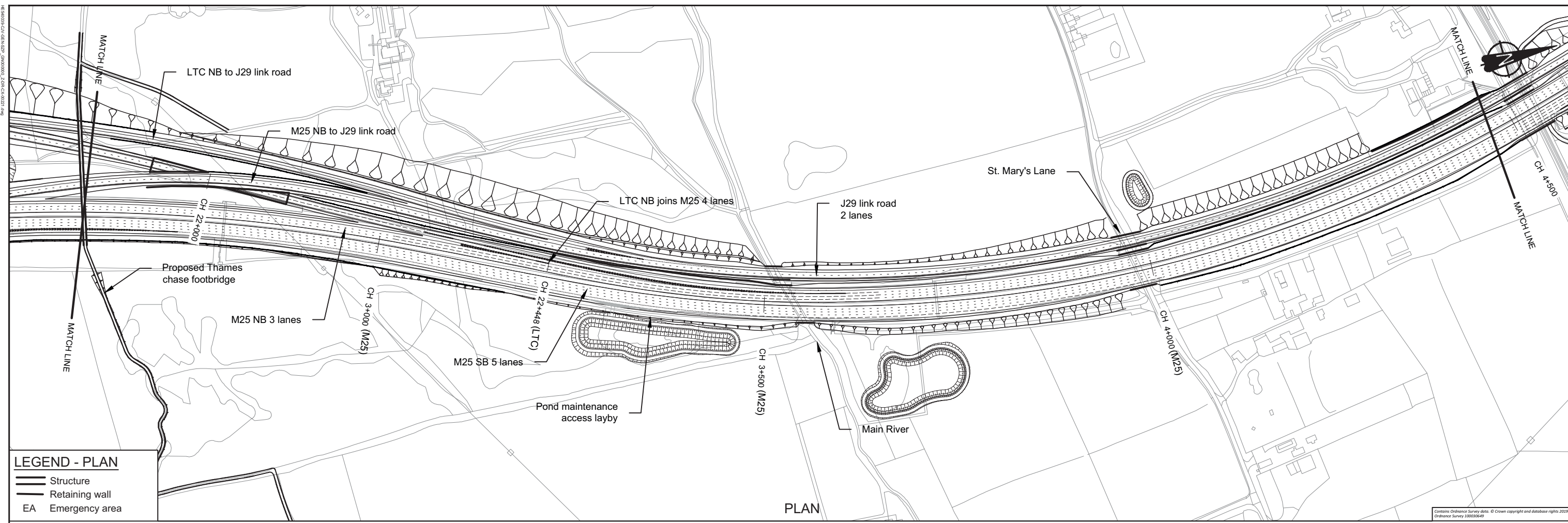


Client: **highways england**

Project: LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

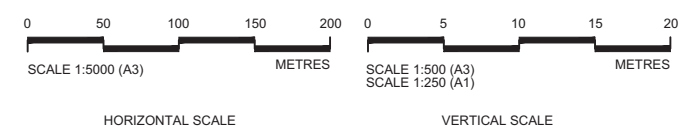
Drawing title: **PROPOSALS FOR CONSULTATION**

PLAN AND PROFILE SHEET 18



- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

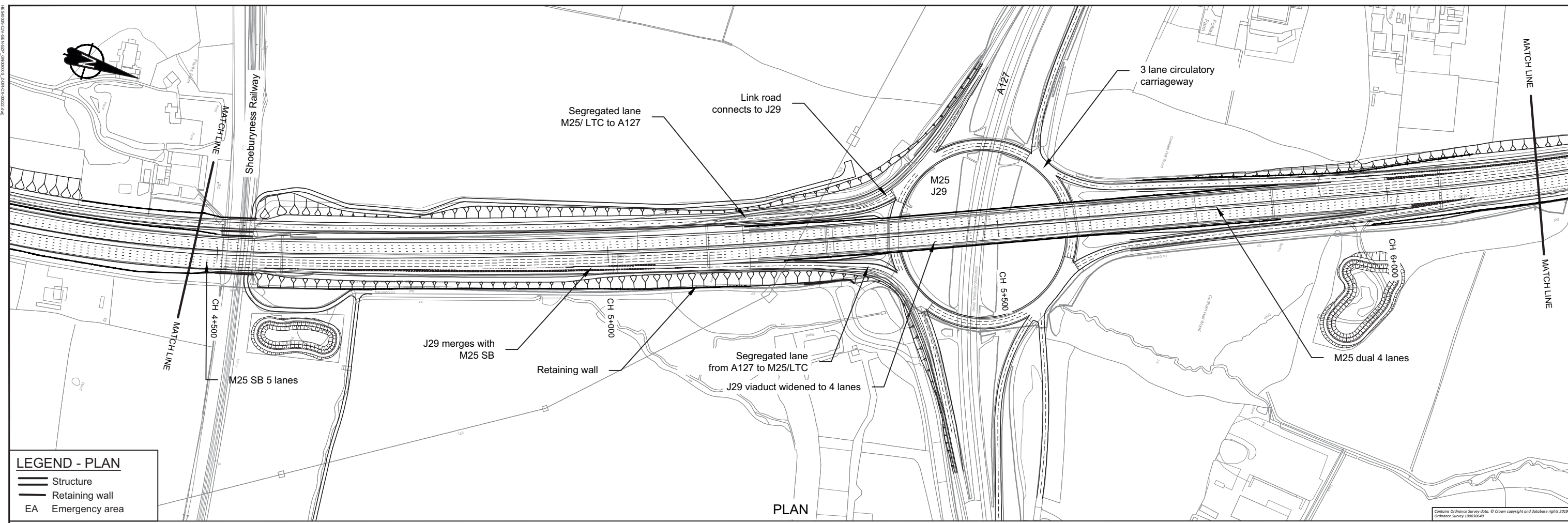


Client **highways england**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PROPOSALS FOR CONSULTATION**

PLAN AND PROFILE SHEET 19



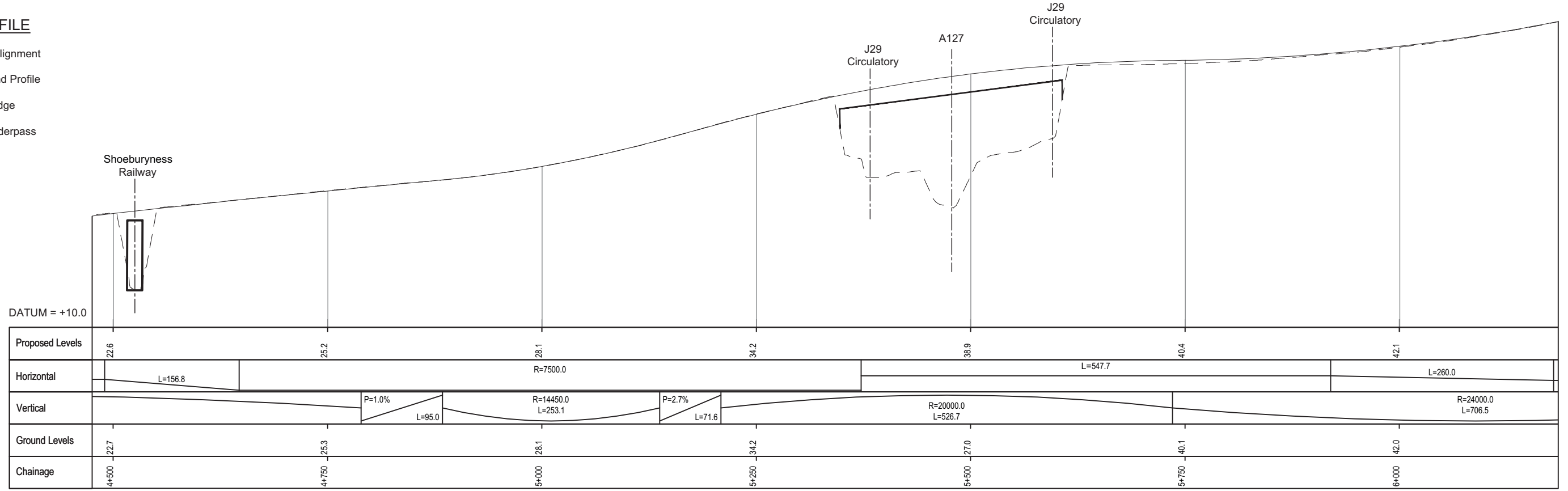
**LEGEND - PLAN**

- Structure
- Retaining wall
- EA Emergency area

PLAN

**LEGEND - PROFILE**

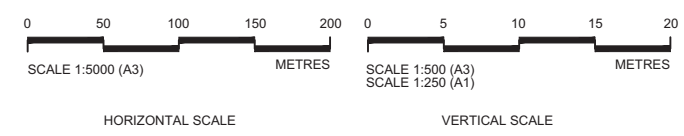
- LTC Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass



PROFILE

- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound



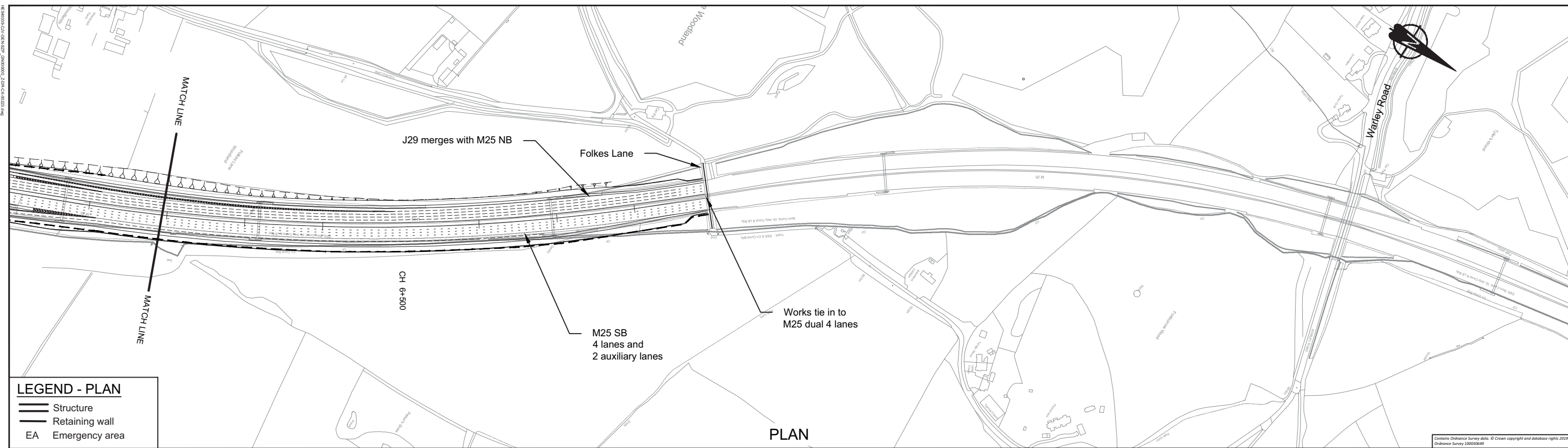
Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING  
SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 20**



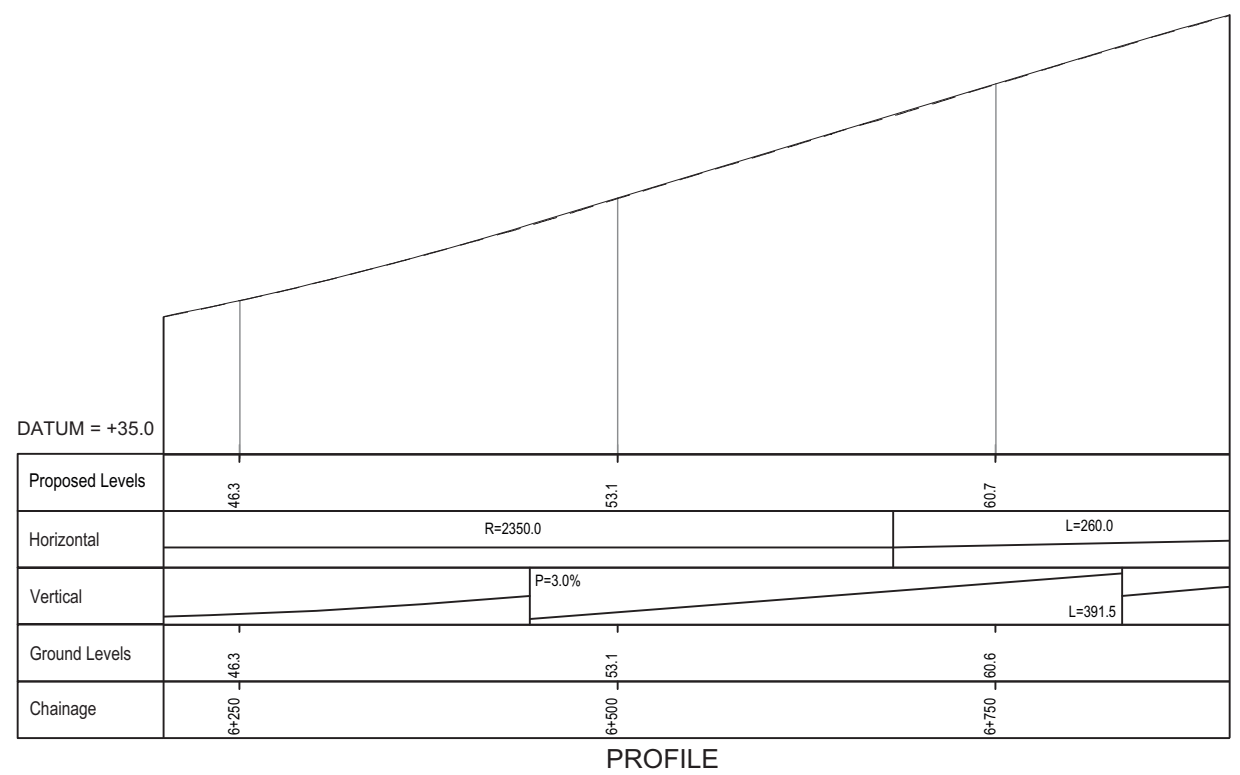


**LEGEND - PLAN**

	Structure
	Retaining wall
	EA Emergency area

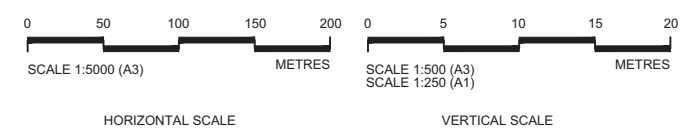
**LEGEND - PROFILE**

	LTC Vertical Alignment
	Existing Ground Profile
	Structure - Bridge
	Structure - Underpass



- NOTES**
- Do not scale from this drawing.
  - All dimensions are in metres unless stated otherwise.
  - All levels are in metres relative to the Ordnance Datum.
  - For scheme location refer to Plan and Profile General Plan.
  - Profile uses an exaggerated scale of 1 horizontal :10 vertical

NB - Northbound  
WB - Westbound  
EB - Eastbound  
SB - Southbound

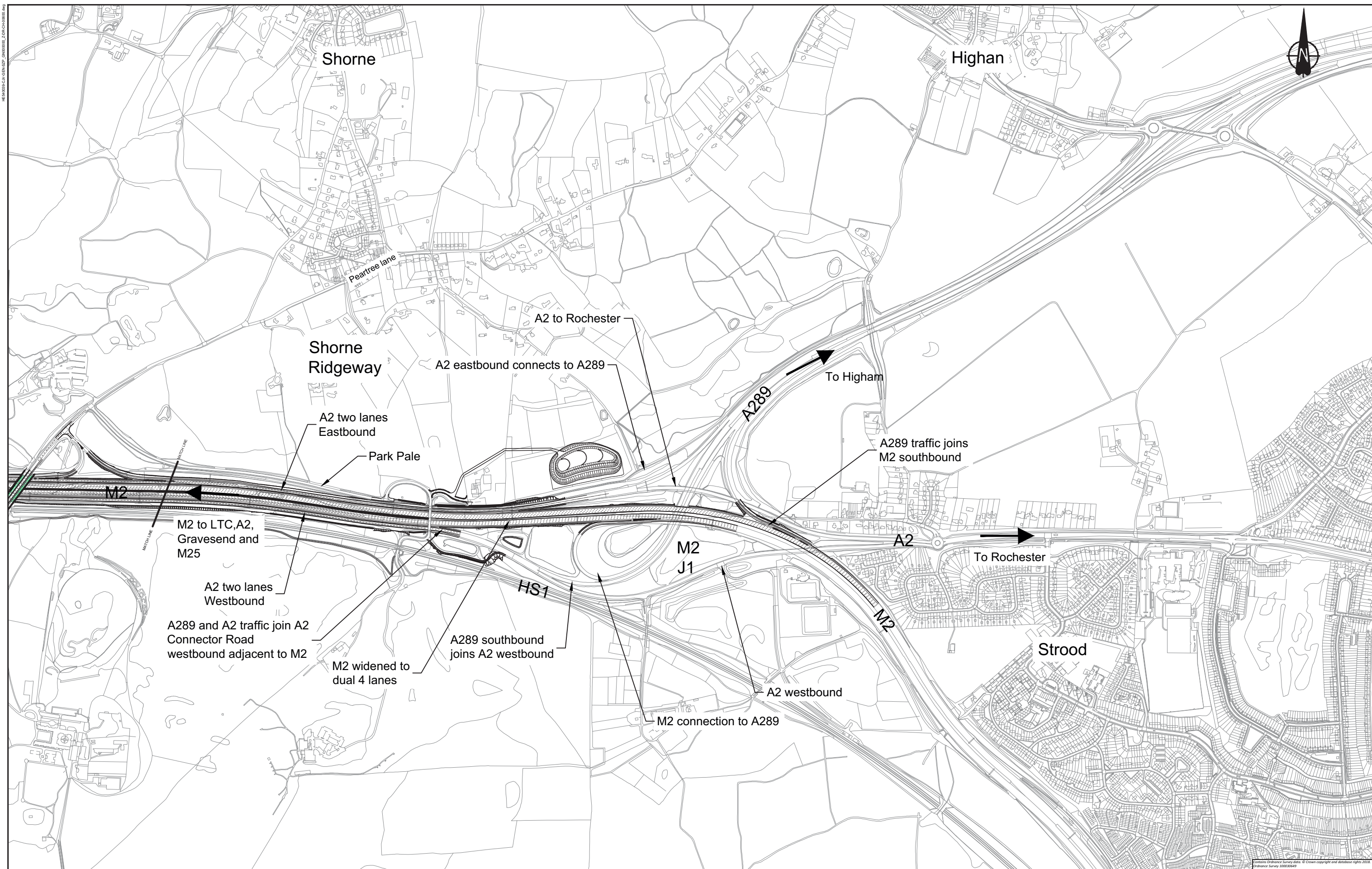


Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 21**



LEGEND:

== Structures

0 50 100 150 200 250 300 350 400 450 500  
 SCALE 1:10000 (A3)  
 SCALE 1:5000 (A1)  
 METRES

Client

Project LOWER THAMES CROSSING  
 SUPPLEMENTARY CONSULTATION

Drawing title

**PROPOSALS FOR CONSULTATION**

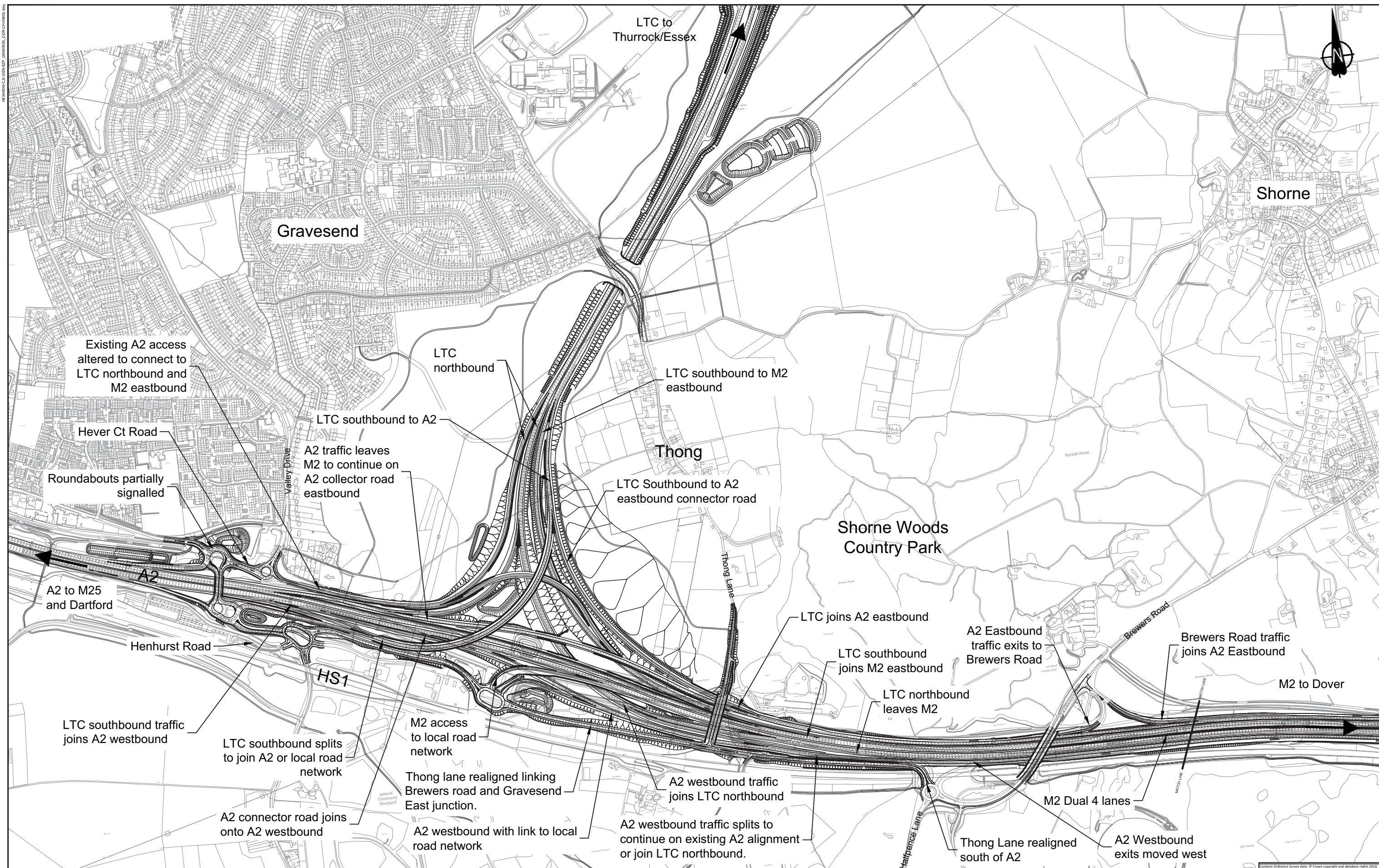
Project LOWER THAMES CROSSING  
 SUPPLEMENTARY CONSULTATION


Drawing title

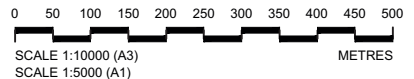
**M2 JUNCTION**

16/04/2018 14:56:00 16/04/2018 14:56:00 16/04/2018 14:56:00

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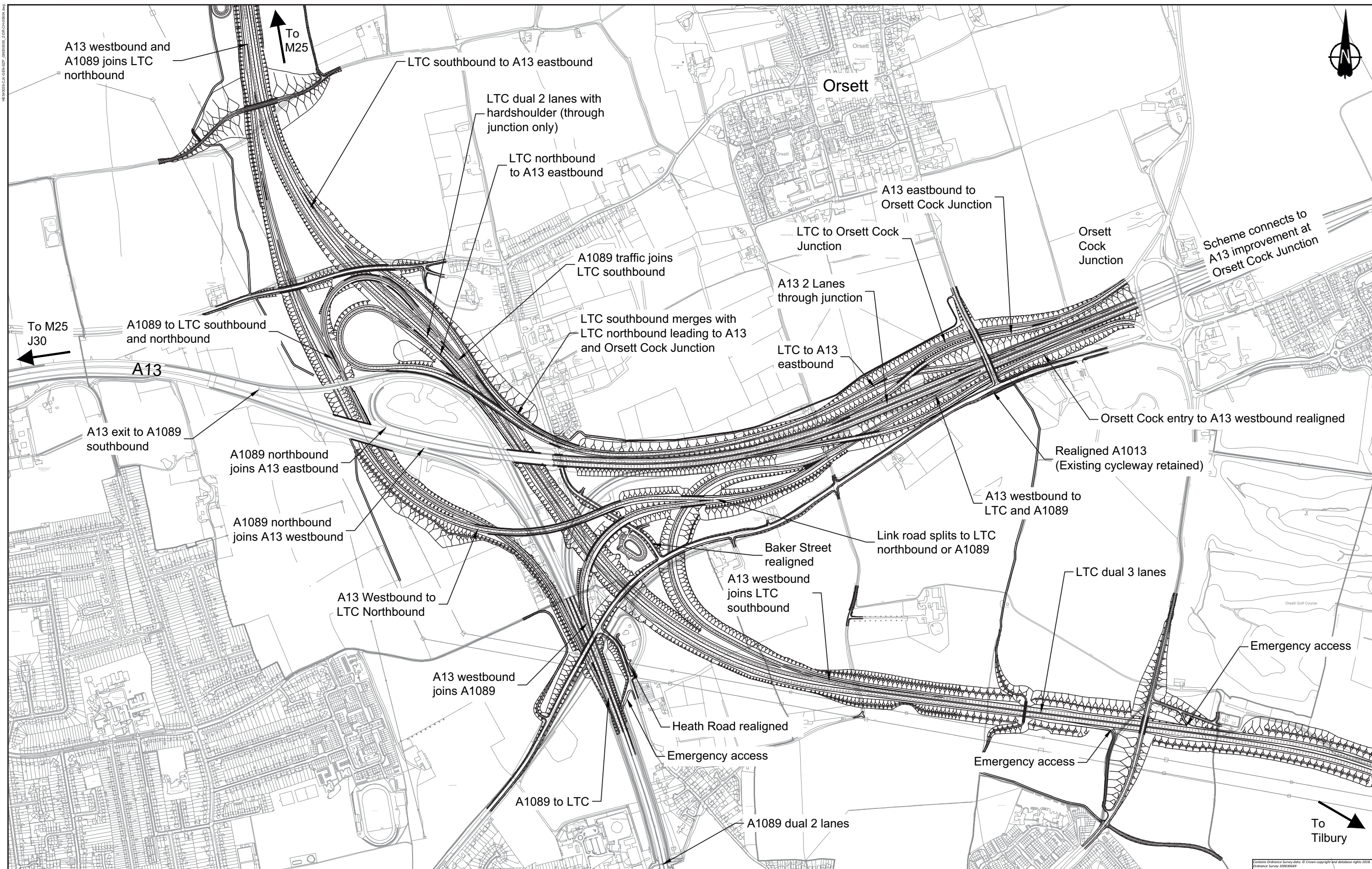
LEGEND:  
 Structures



Client  
  
**PROPOSALS FOR CONSULTATION**

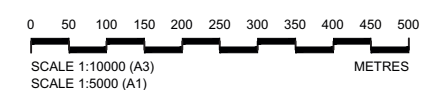
Project  
 LOWER THAMES CROSSING  
 SUPPLEMENTARY CONSULTATION  
 Drawing title  
**A2 JUNCTION**

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LEGEND:  
 Structures

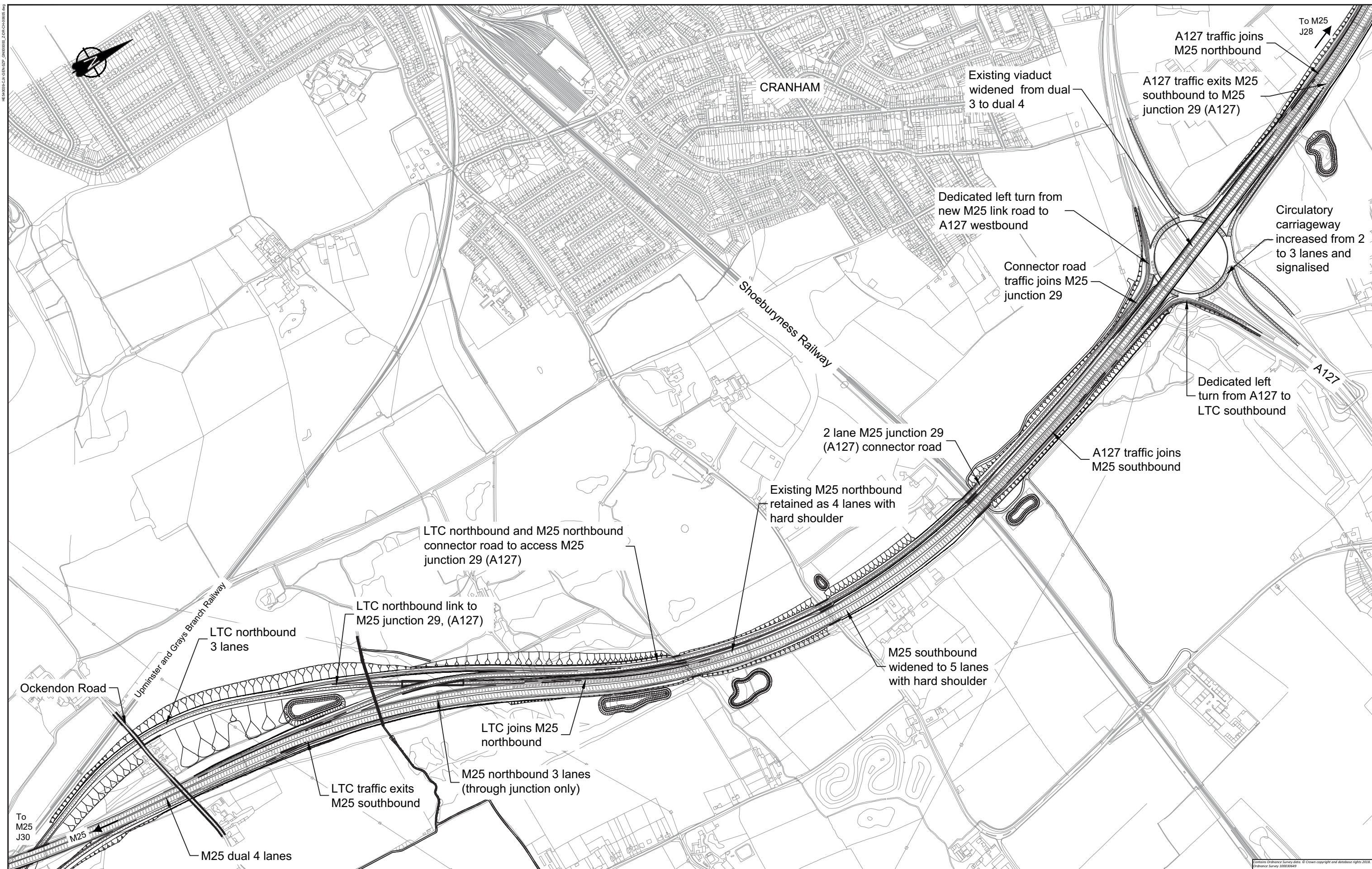
P01 S2 10/09/2018




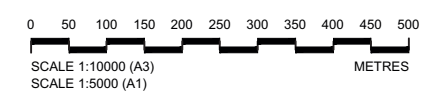
	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title <b>A13 JUNCTION</b>


**PROPOSALS FOR CONSULTATION**

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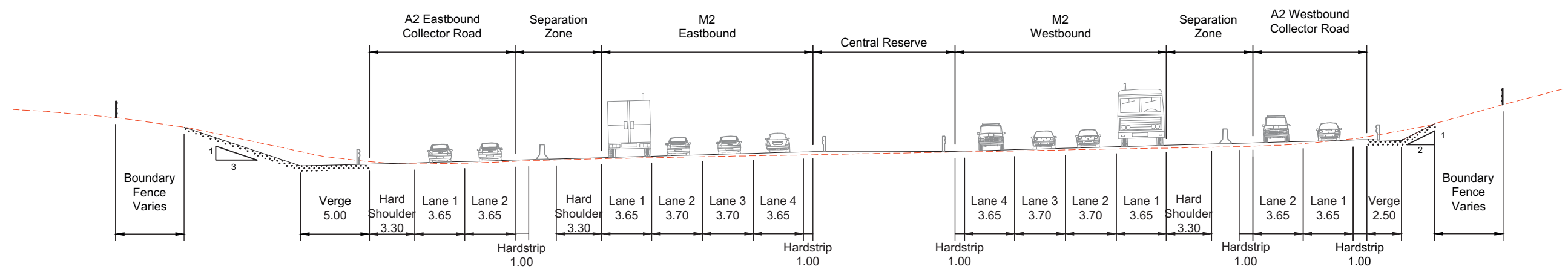
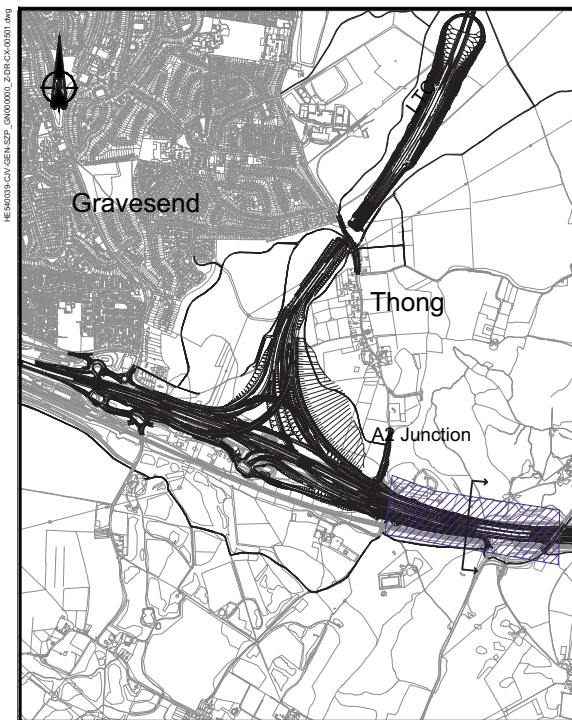
LEGEND:  
 Structures



	Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION
	Drawing title <b>LTC/M25 JUNCTION AND          M25 JUNCTION 29</b>

**PROPOSALS FOR  
CONSULTATION**

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TYPICAL CROSS SECTION ALONG M2/A2

**LEGEND:**  
 — Proposed ground level  
 - - - Existing ground level

**NOTES:**  
 1. All dimensions are in metres unless stated otherwise.

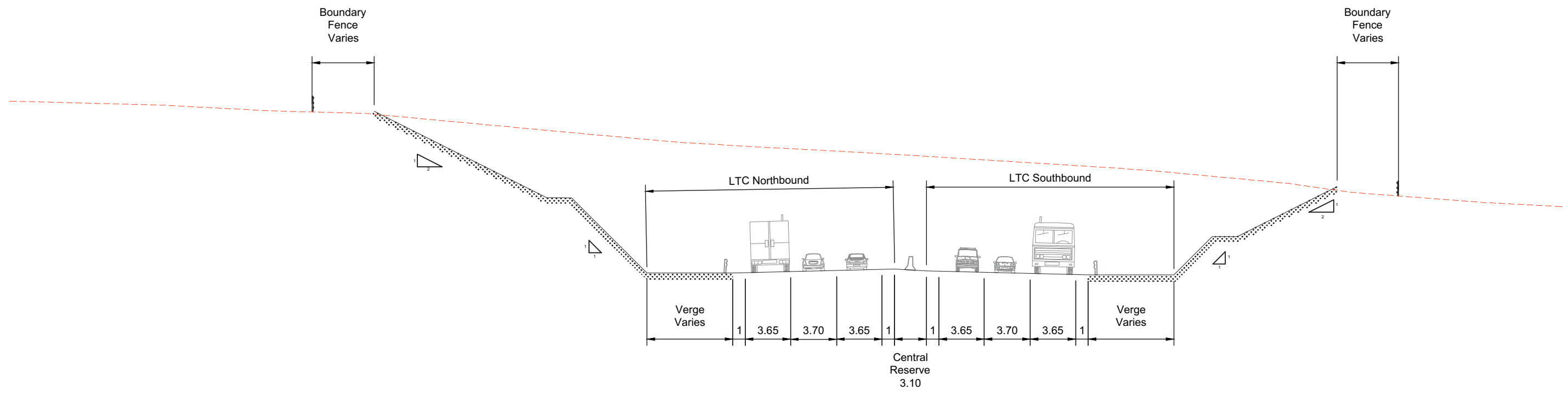
Not to scale

Client 

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

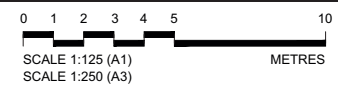
Drawing title **CROSS SECTION A2 WIDENING**



TYPICAL CROSS SECTION IN CHALK CUTTING

**LEGEND:**  
 — Proposed ground level  
 - - - Existing ground level

**NOTES**  
 1. All dimensions are in metres unless stated otherwise.



Client **highways england**

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

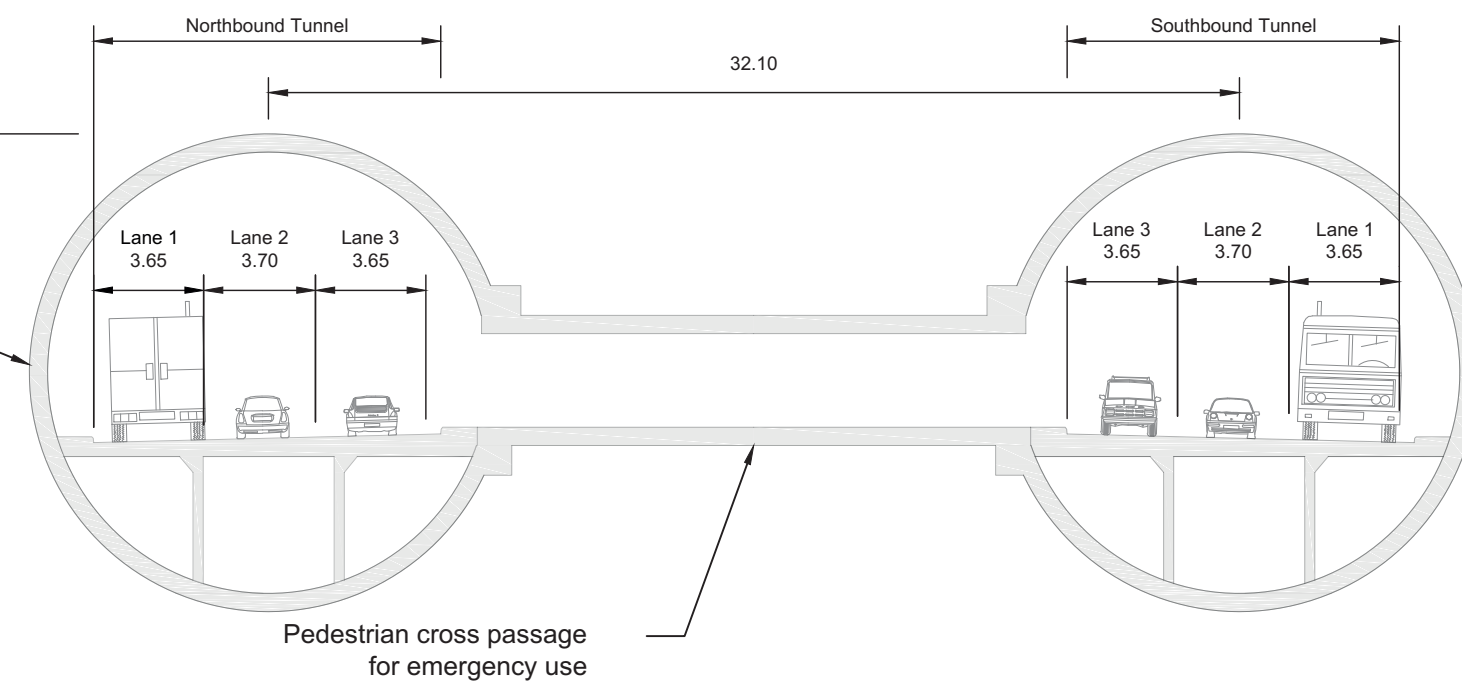
Drawing title **CROSS SECTION SOUTH OF THE RIVER CHALK CUTTING**



Water level = 3.47m

Depth of tunnel -36.63

16.4m diameter



16.4m diameter

Pedestrian cross passage for emergency use

TYPICAL CROSS SECTION THROUGH THE TUNNEL

**LEGEND:**  
 — Proposed ground level  
 - - - Riverbed level

**NOTES:**  
 1. All dimensions are in metres unless stated otherwise.



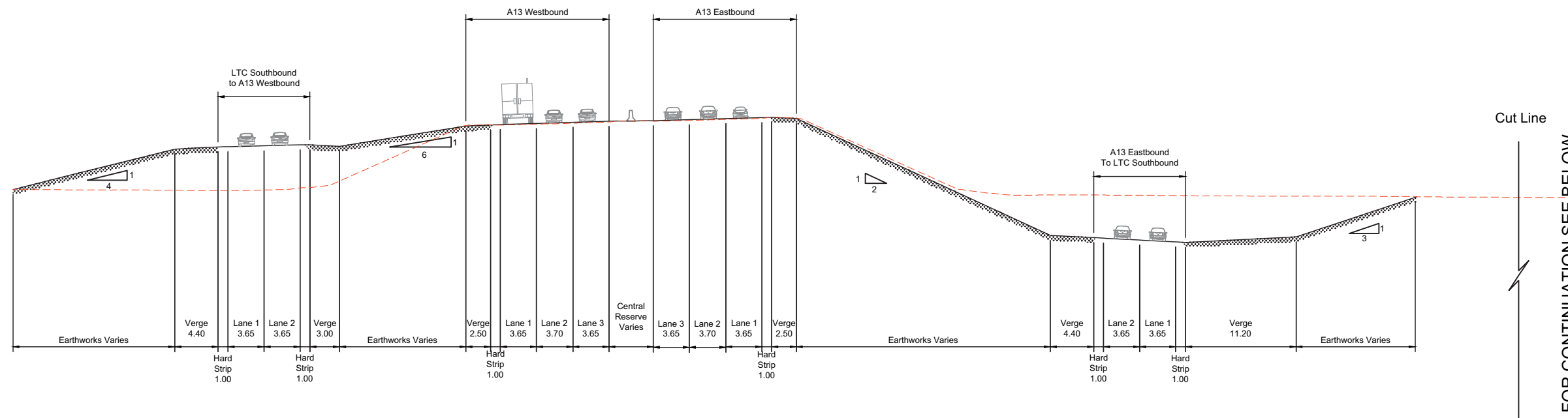
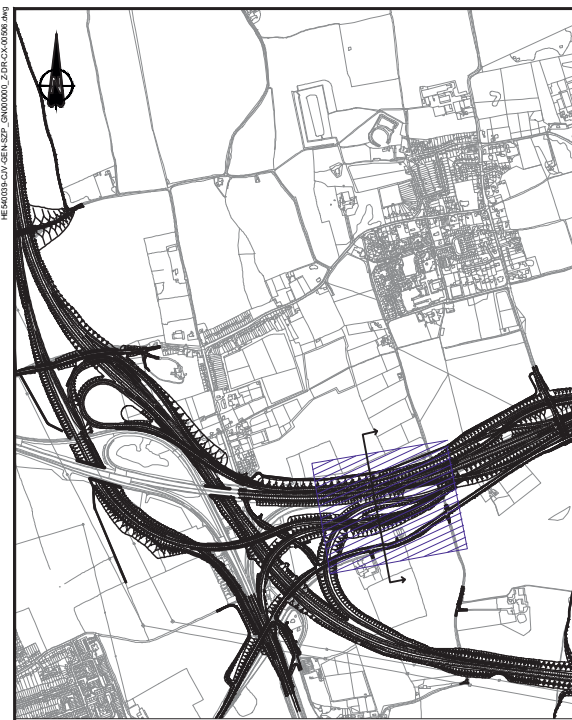
Client **highways england**

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

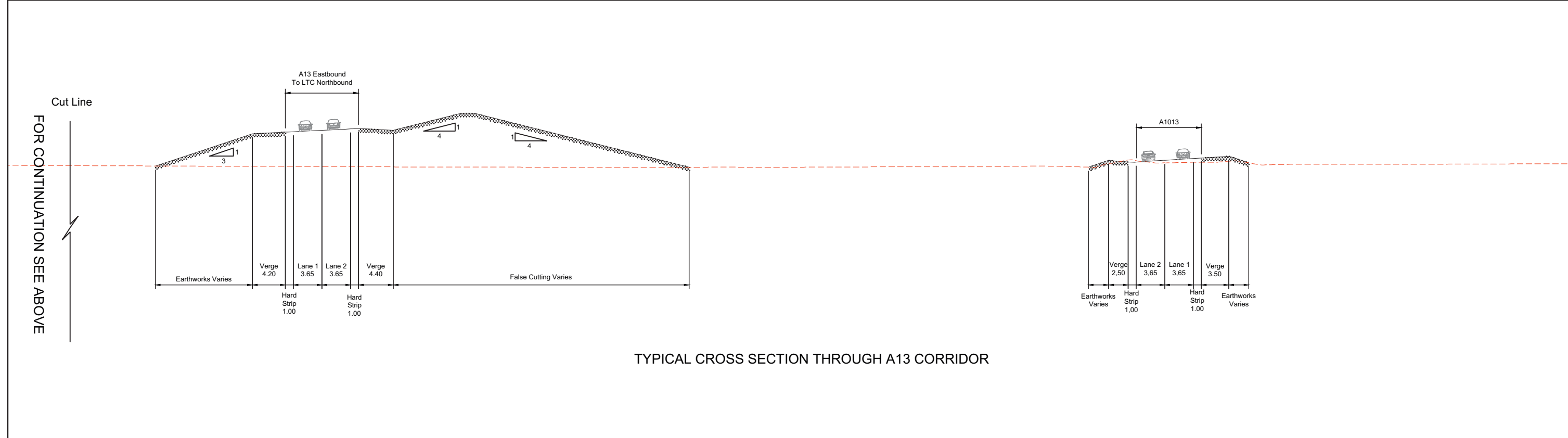
Drawing title **CROSS SECTION TUNNEL**





TYPICAL CROSS SECTION THROUGH A13 CORRIDOR

FOR CONTINUATION SEE BELOW



TYPICAL CROSS SECTION THROUGH A13 CORRIDOR

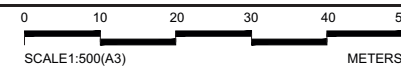
**LEGEND:**

— Proposed ground level

- - - Existing ground level

**NOTES**

1. All dimensions are in metres unless stated otherwise.

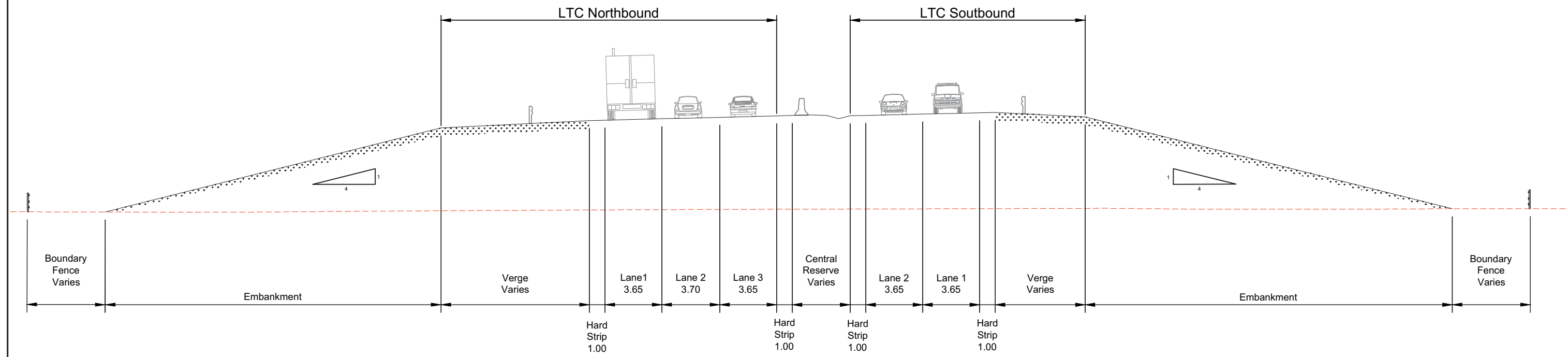


Client

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **CROSS SECTION A13**



TYPICAL CROSS SECTION THROUGH ORSETT FENN

**LEGEND:**  
 — Proposed ground level  
 - - - Existing ground level

**NOTES**  
 1. All dimensions are in metres unless stated otherwise.

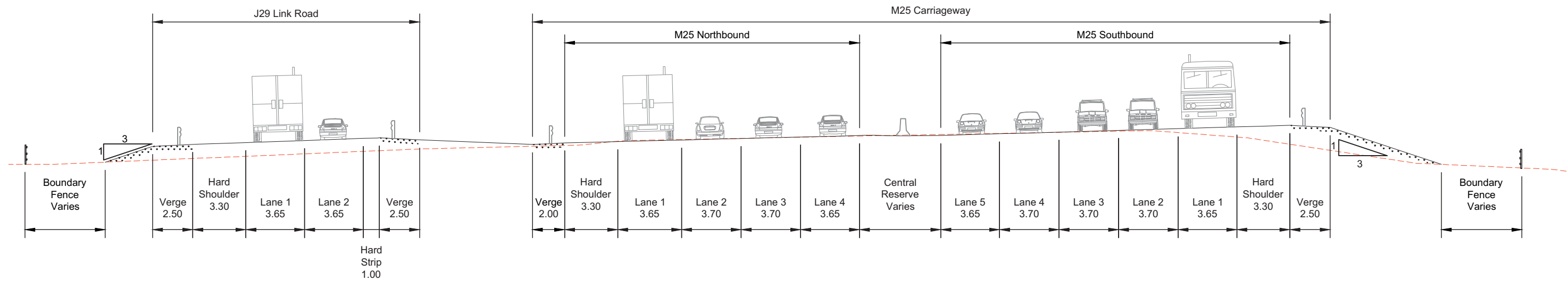


Client **highways england**

**PROPOSALS FOR CONSULTATION**

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION

Drawing title **CROSS SECTION ORSETT FENN**



TYPICAL CROSS SECTION THROUGH M25 WITH LINK ROAD

**LEGEND:**  
 — Proposed ground level  
 - - - Existing ground level



**NOTES**  
 1. All dimensions are in metres unless stated otherwise.



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

Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION  
 Drawing title **CROSS SECTION M25 WIDENING WITH LINK ROAD**



<p>LEGEND:</p> <p> LTC Route</p>	<p>Client</p> 	<p>Project LOWER THAMES CROSSING SUPPLEMENTARY CONSULTATION</p>
<p>PROPOSALS FOR CONSULTATION</p>	<p>Drawing title PLAN AND PROFILE GENERAL PLAN</p>	

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