

Lower Thames Crossing
Map book 3: engineering plans

Lower Thames Crossing map books

The three map books contain plans of the proposed project under the following headings:

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

These plans show our current proposals and are published for the purposes of 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, 2 and 3.

Map book 1 - General Arrangements

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

- Engineering & construction
- Environment
- Utilities
- Development boundary

Map book 2 - land use plans

The land use plans show the areas we may need to purchase or 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

Permanent use of land will be required along the route of the road, for re-connecting local roads and for associated structures like drainage ponds, tunnel control buildings and the rest and service area.

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 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 acquired permanently.

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. 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** which might be different on each drawing.

*Chainage measures the distance along the route in metres

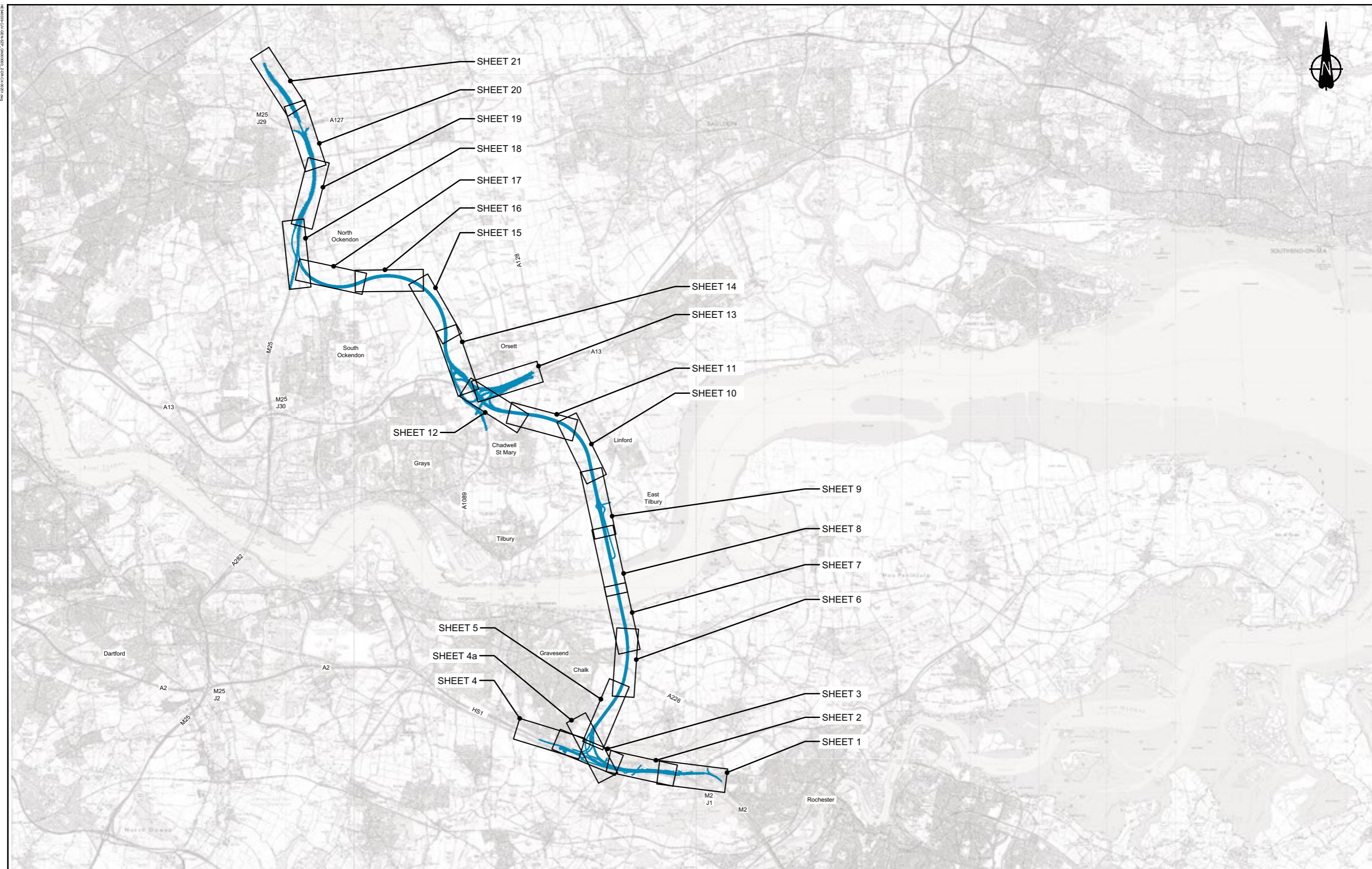
**Above Ordnance Datum level (AOD) is a measurement above mean sea level

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 – 5 sheets (larger coverage)



LEGEND:
 LTC Route

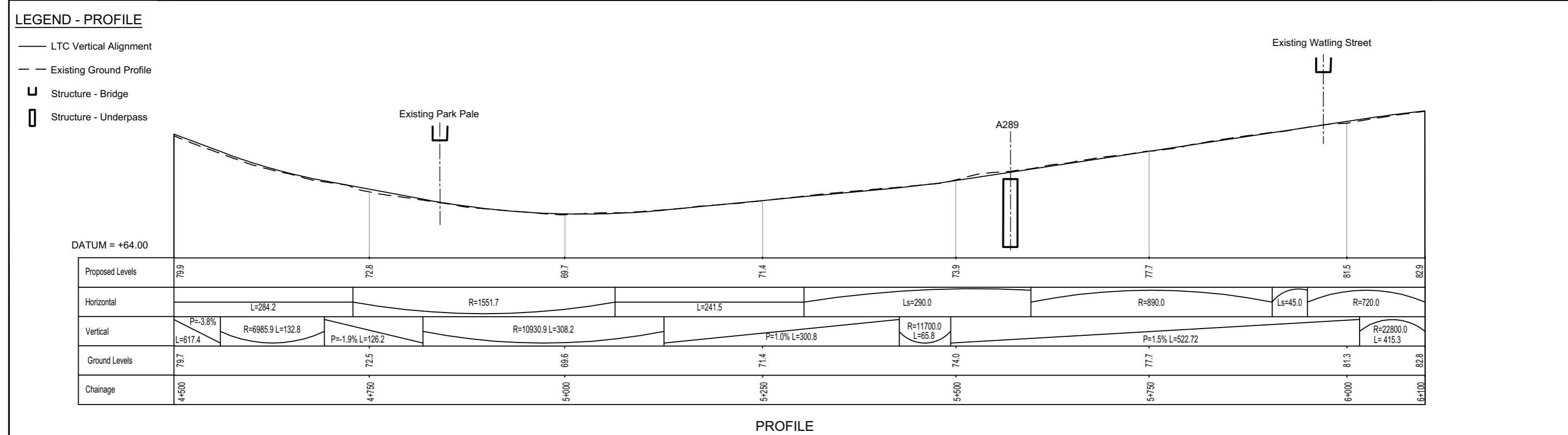
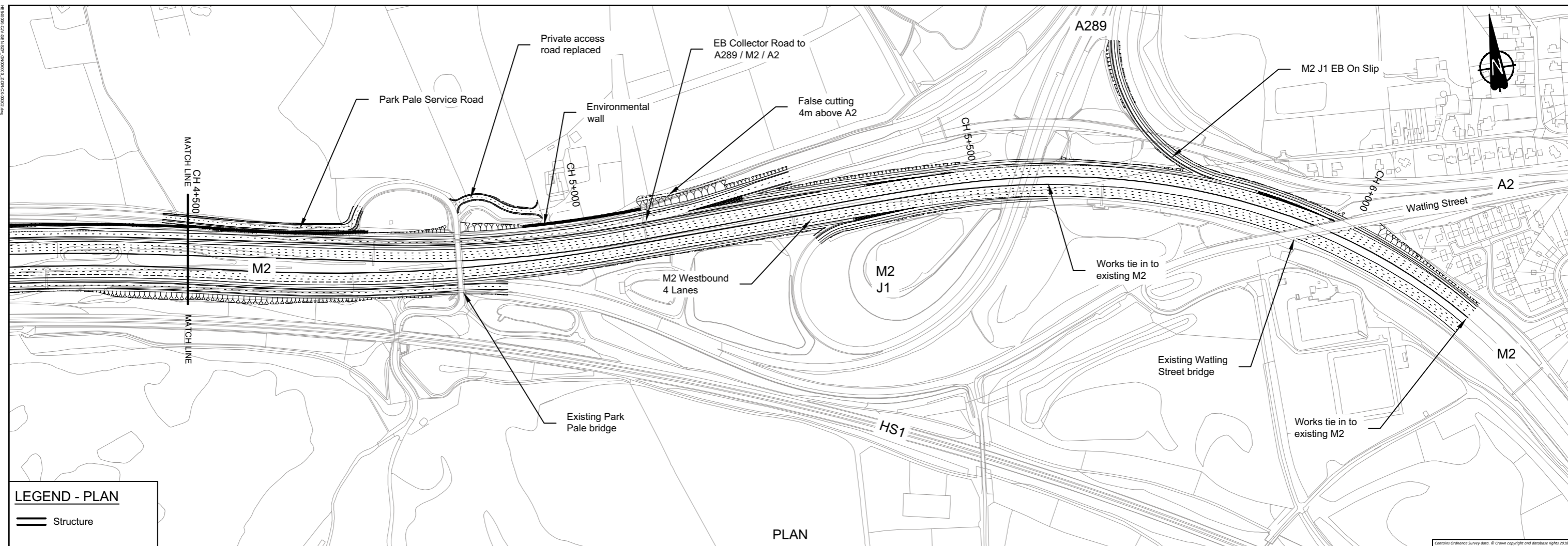
Client



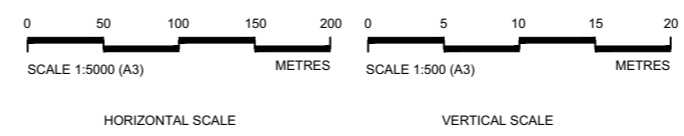
PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title PLAN AND PROFILE GENERAL PLAN



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

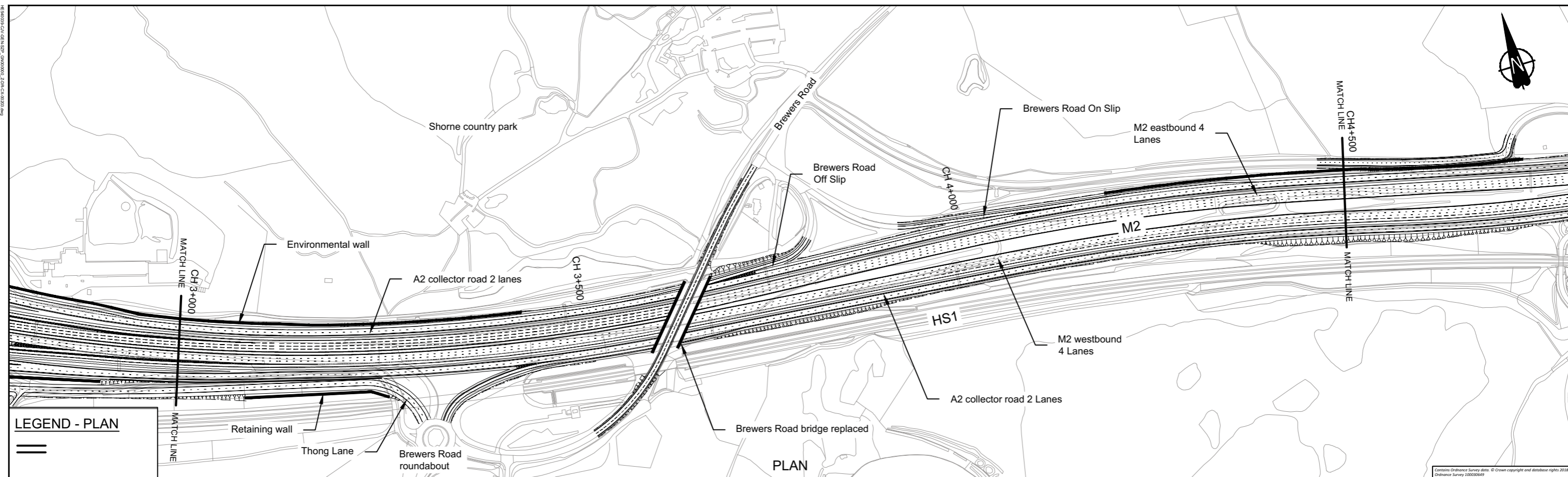


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 1**

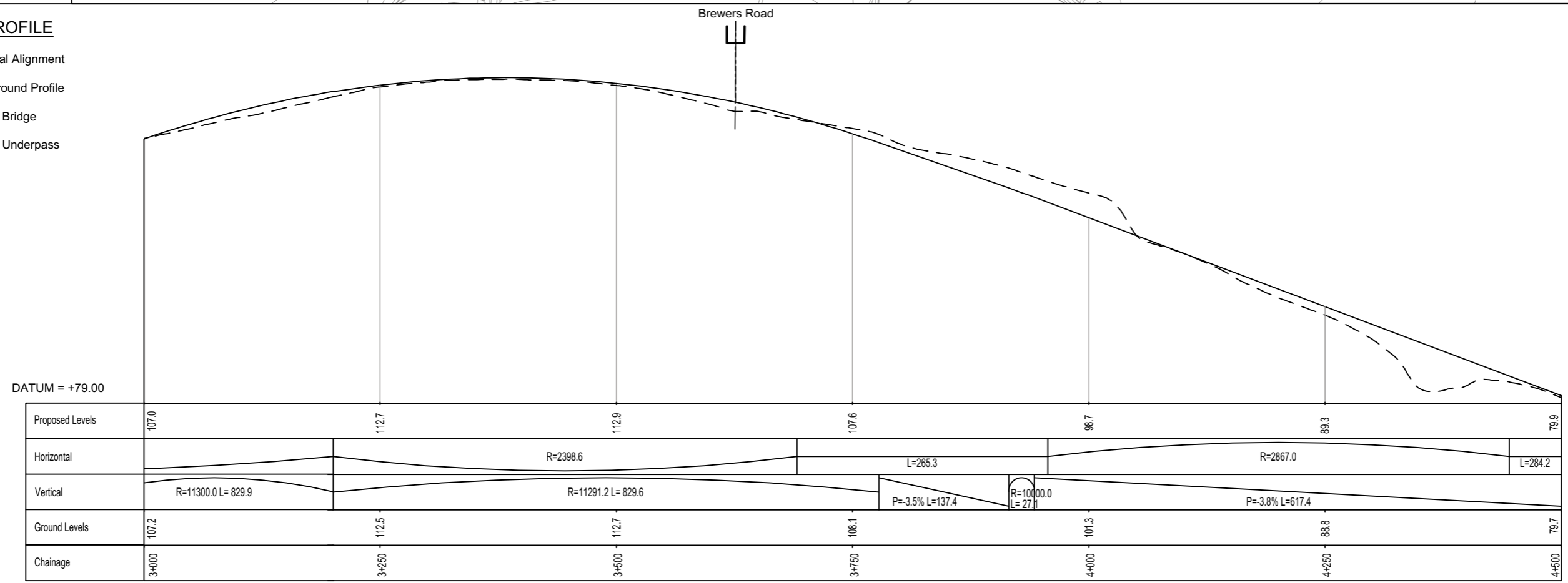


LEGEND - PLAN

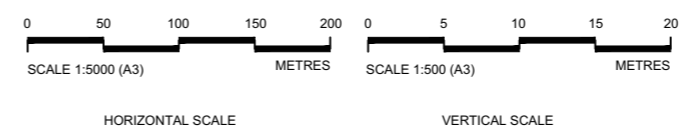
	Structure - Bridge
	Structure - Underpass

LEGEND - PROFILE

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



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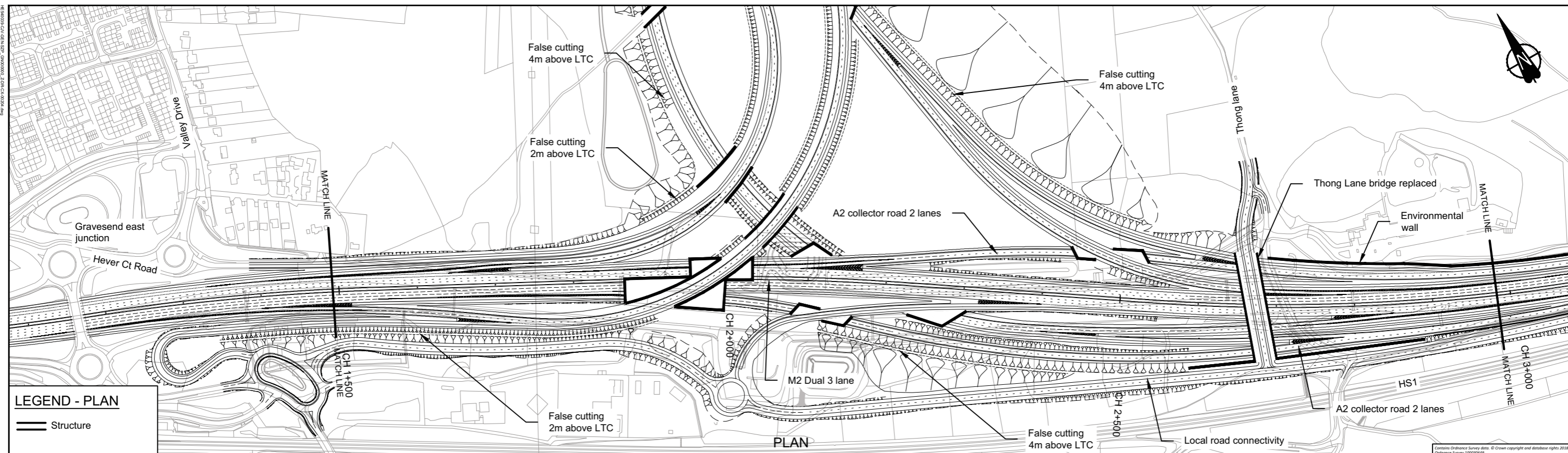


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 2**

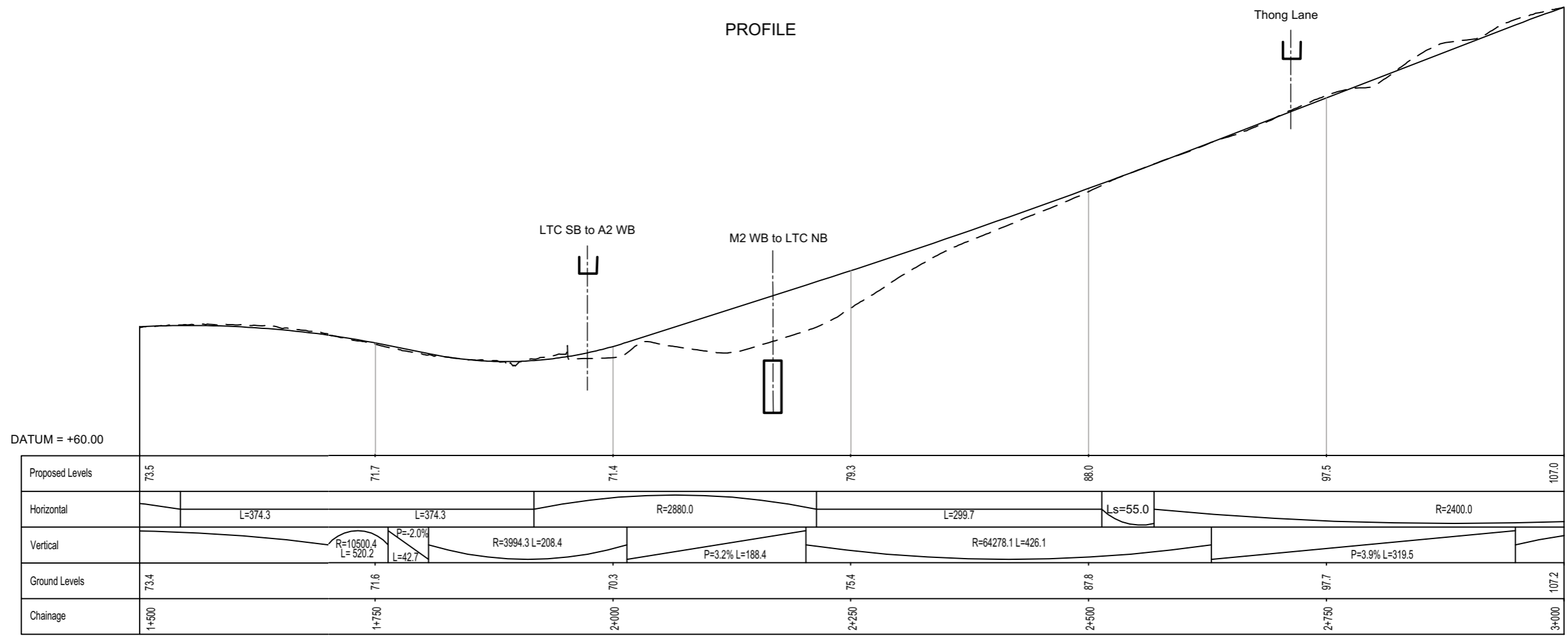


LEGEND - PLAN

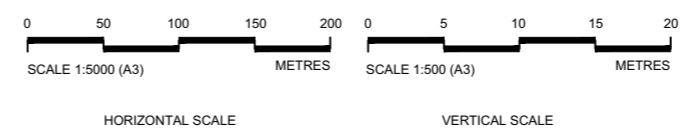
Structure

LEGEND - PROFILE

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



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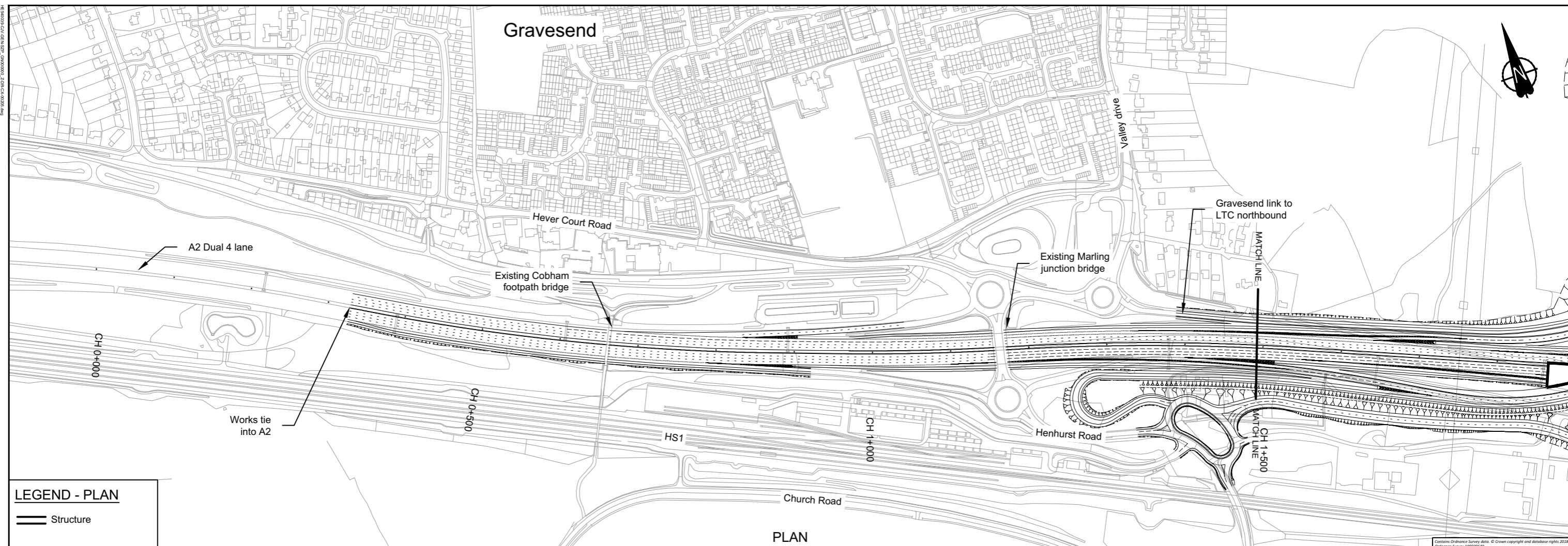


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 3**



LEGEND - PLAN

Structure

PLAN

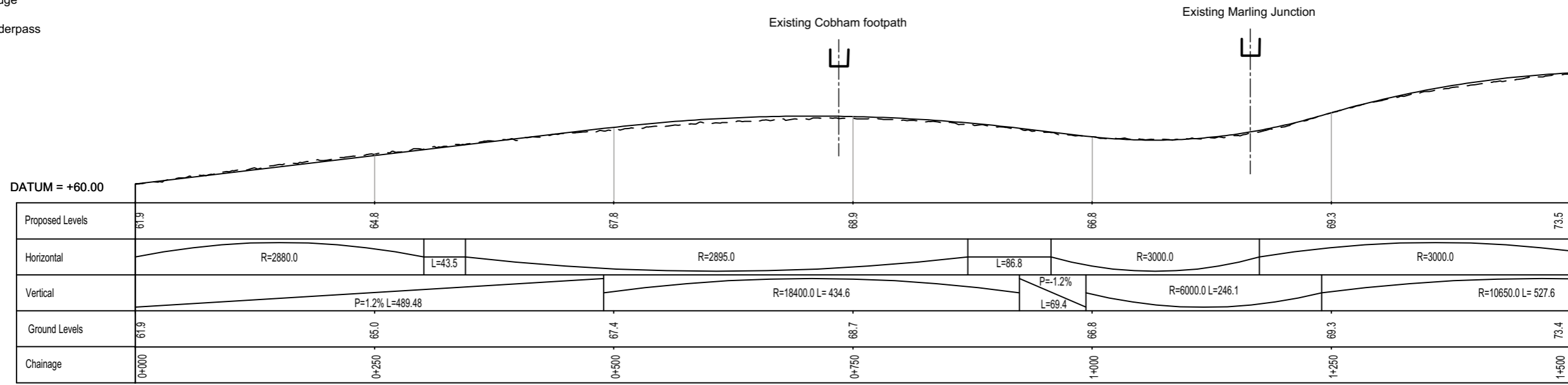
LEGEND - PROFILE

LTC Vertical Alignment

Existing Ground Profile

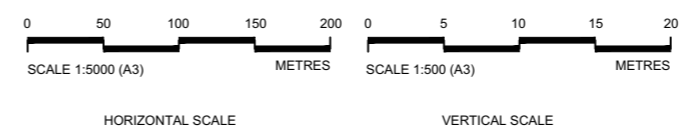
Structure - Bridge

Structure - Underpass



PROFILE

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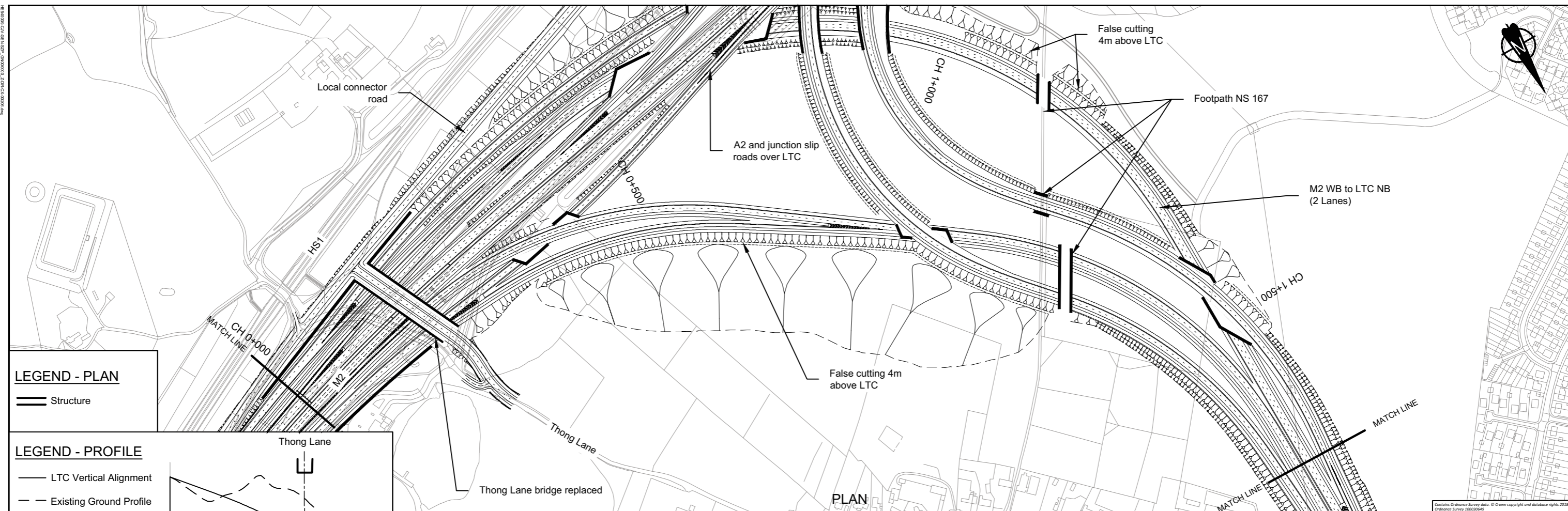


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 4**



LEGEND - PLAN

Structure

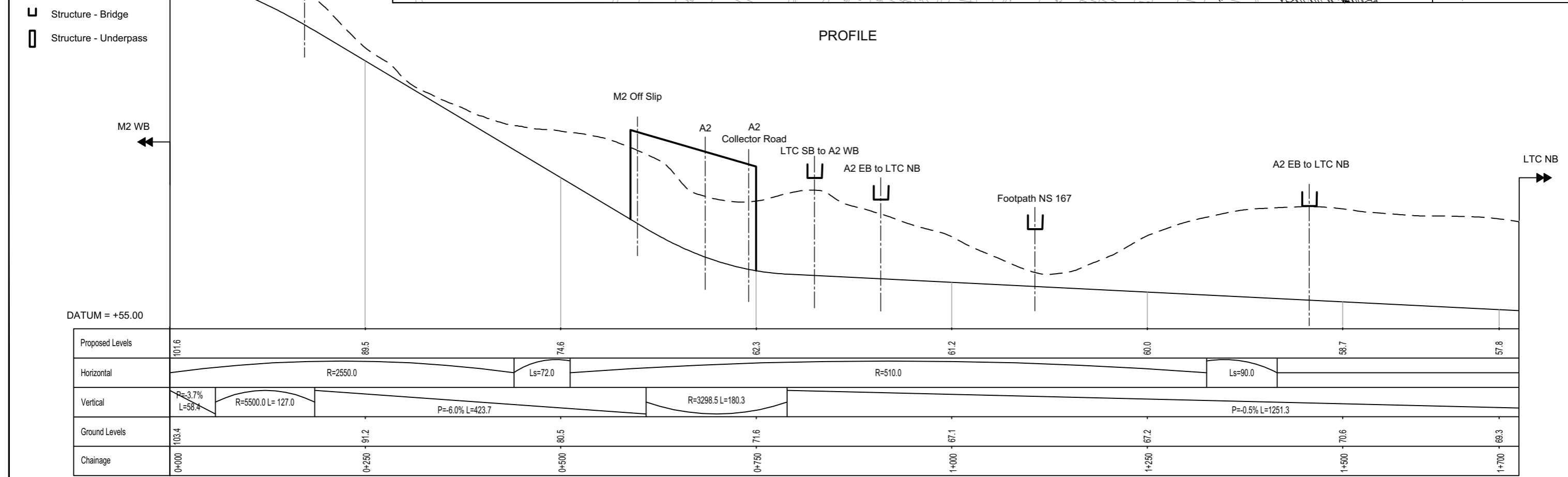
LEGEND - PROFILE

— LTC Vertical Alignment

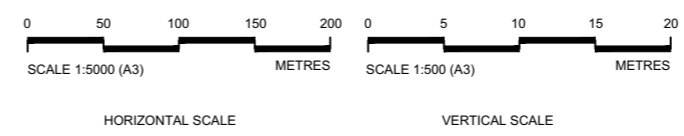
- - Existing Ground Profile

U Structure - Bridge

□ Structure - Underpass



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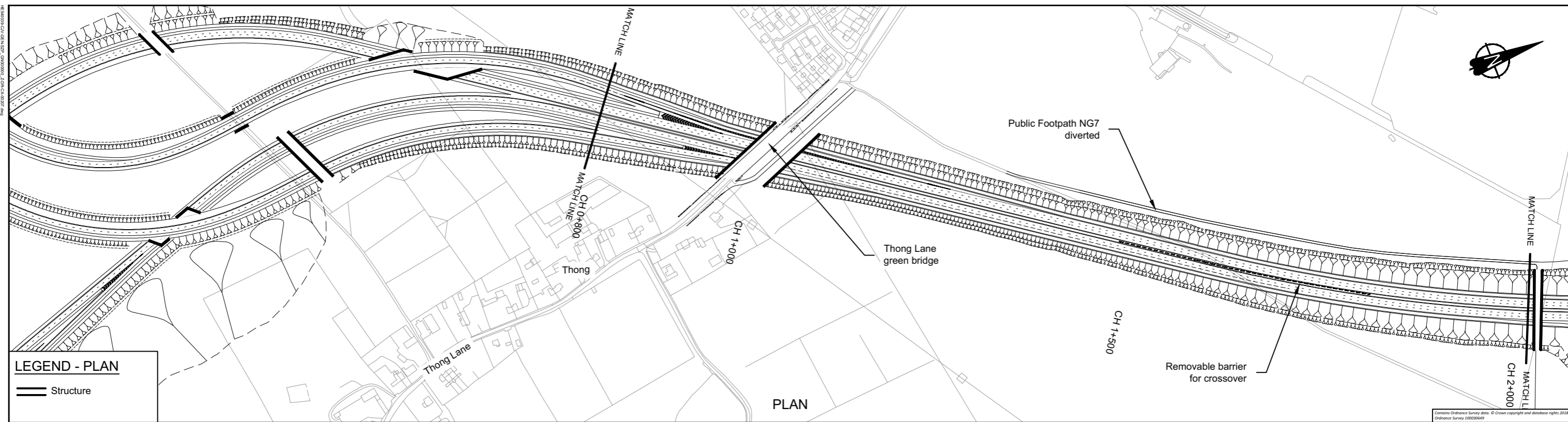


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 4a**



LEGEND - PLAN

== Structure

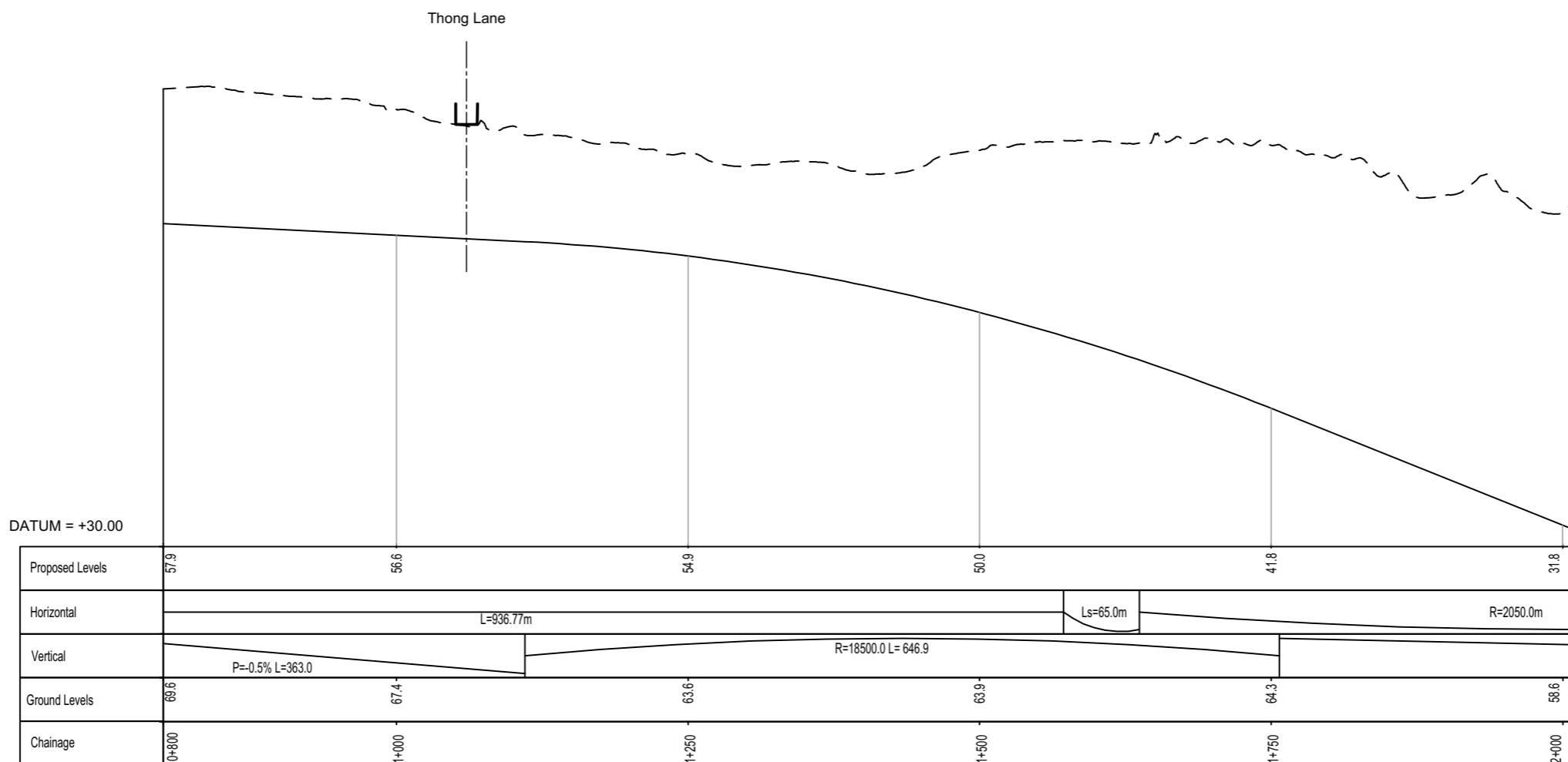
LEGEND - PROFILE

— LTC Vertical Alignment

- - Existing Ground Profile

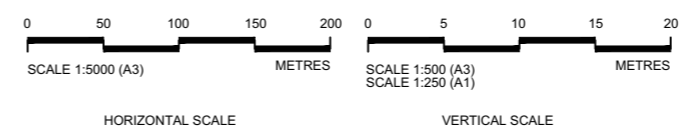
U Structure - Bridge

□ Structure - Underpass



PROFILE

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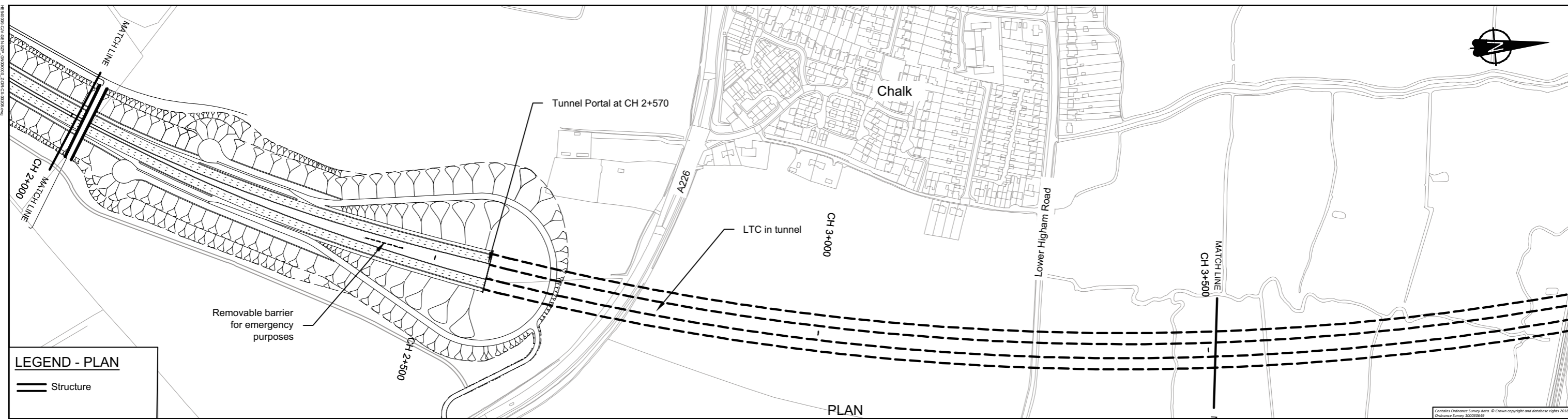


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PROPOSALS FOR CONSULTATION

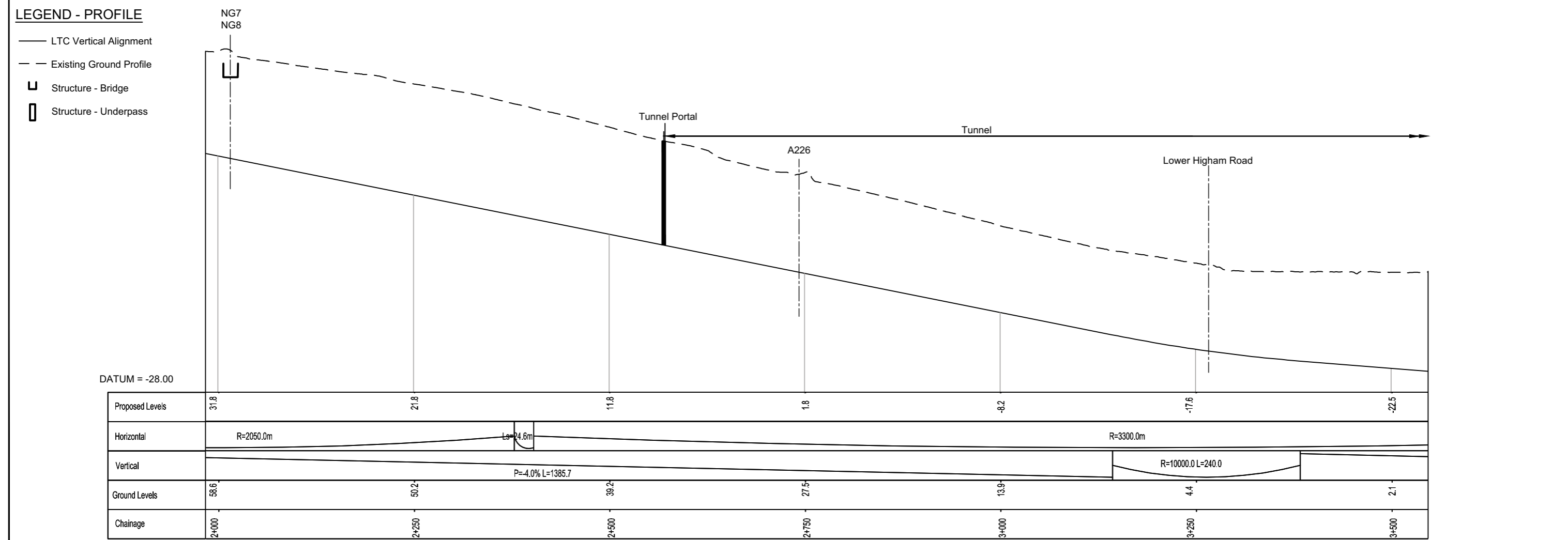
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 5**



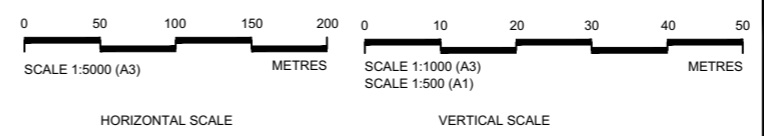
LEGEND - PLAN

== Structure



PROFILE

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

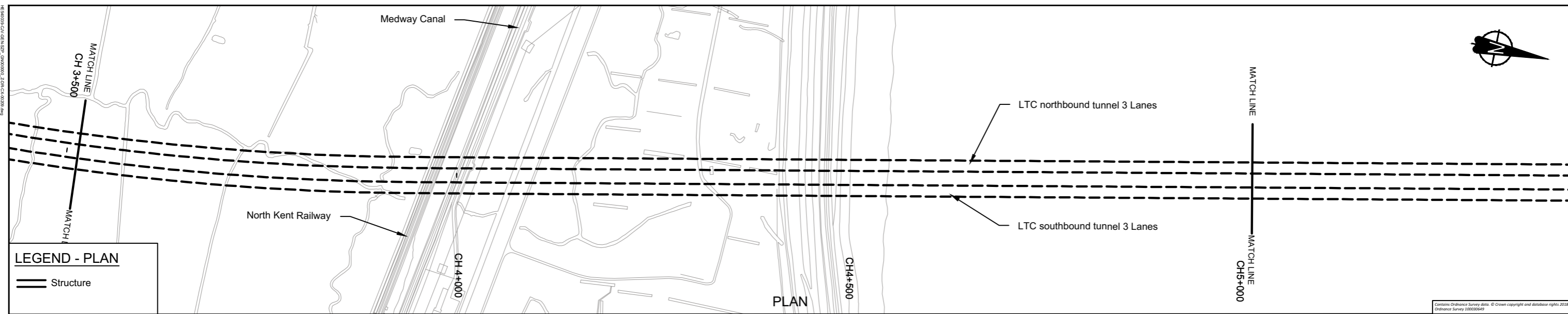


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 6**



LEGEND - PLAN

Structure

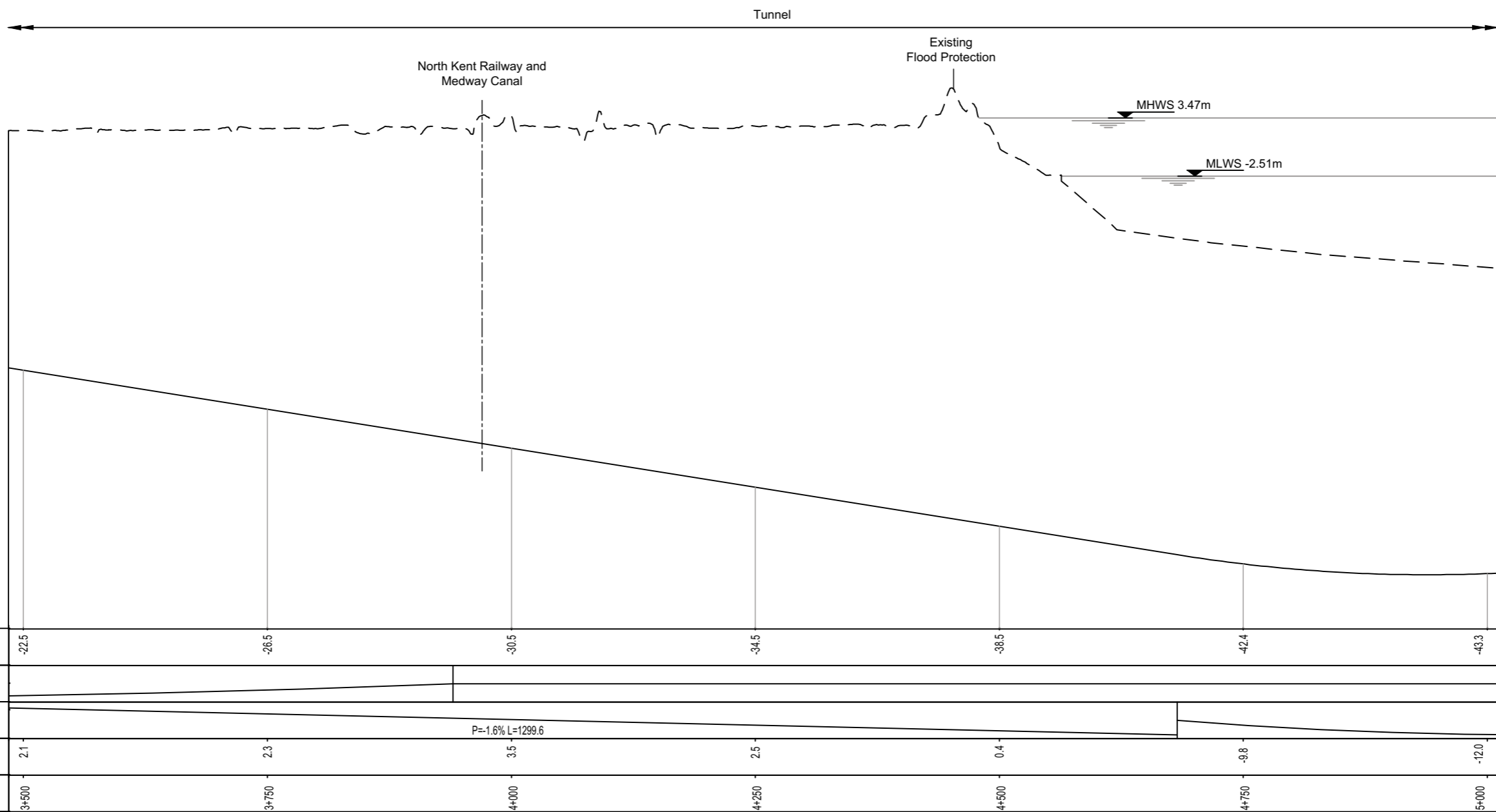
LEGEND - PROFILE

LTC Vertical Alignment

Existing Ground Profile

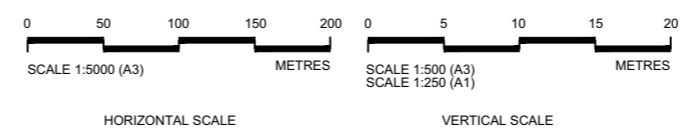
Structure - Bridge

Structure - Underpass



PROFILE

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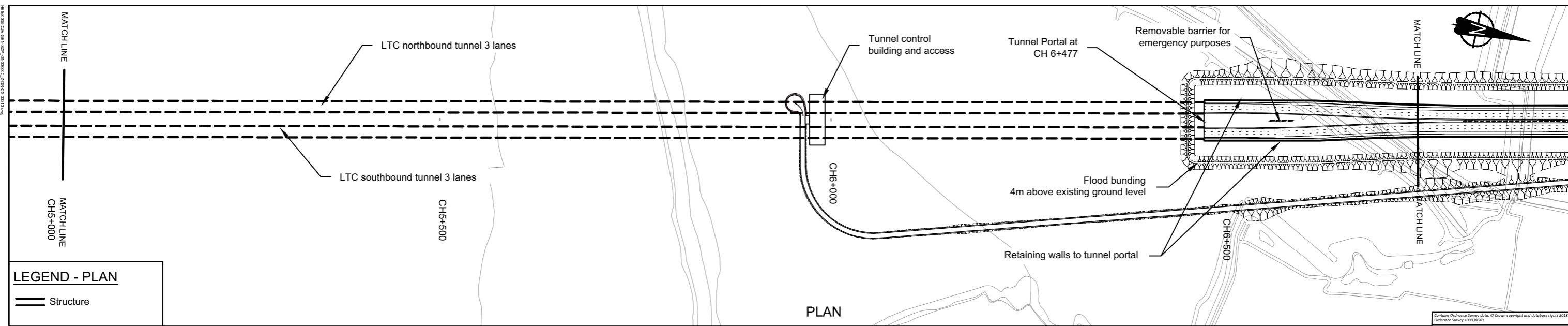


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PROPOSALS FOR CONSULTATION

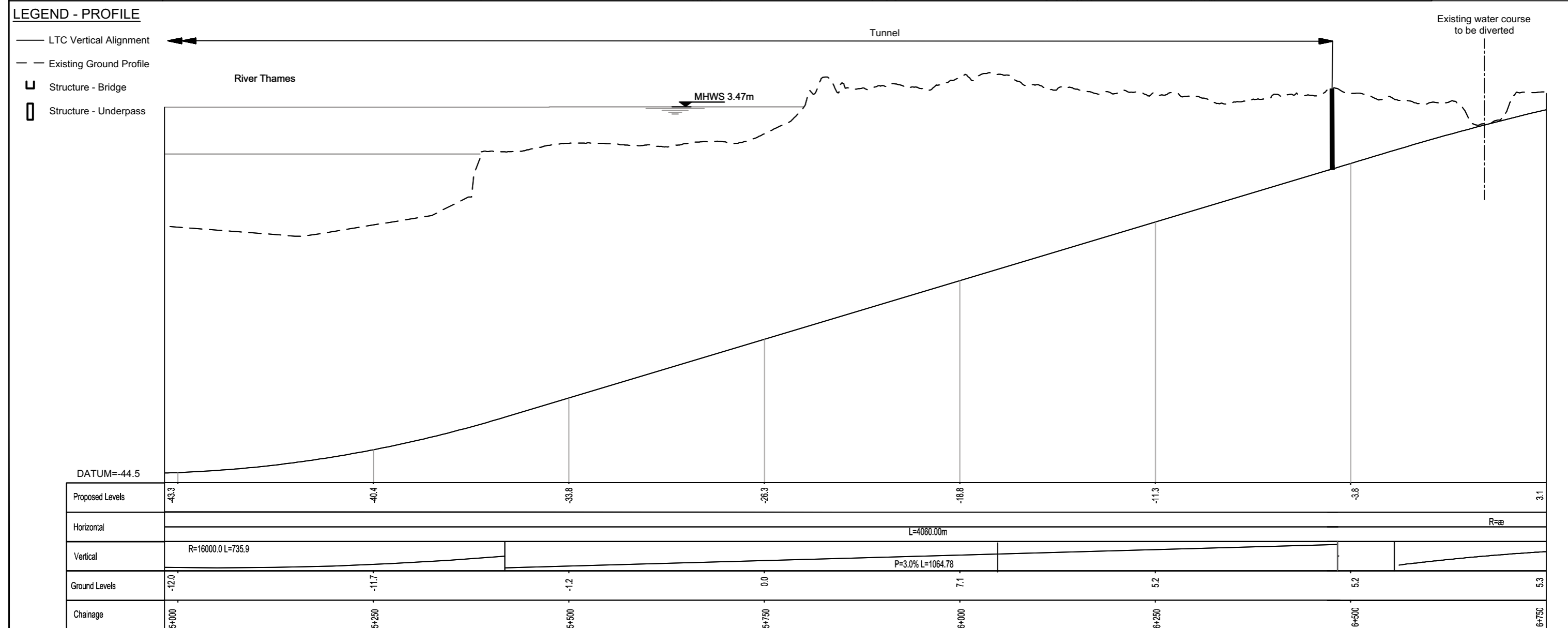
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 7**

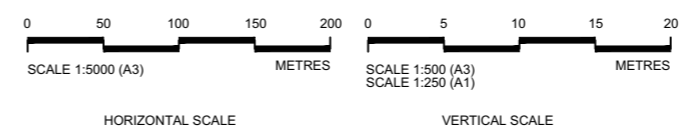


LEGEND - PLAN

	Structure
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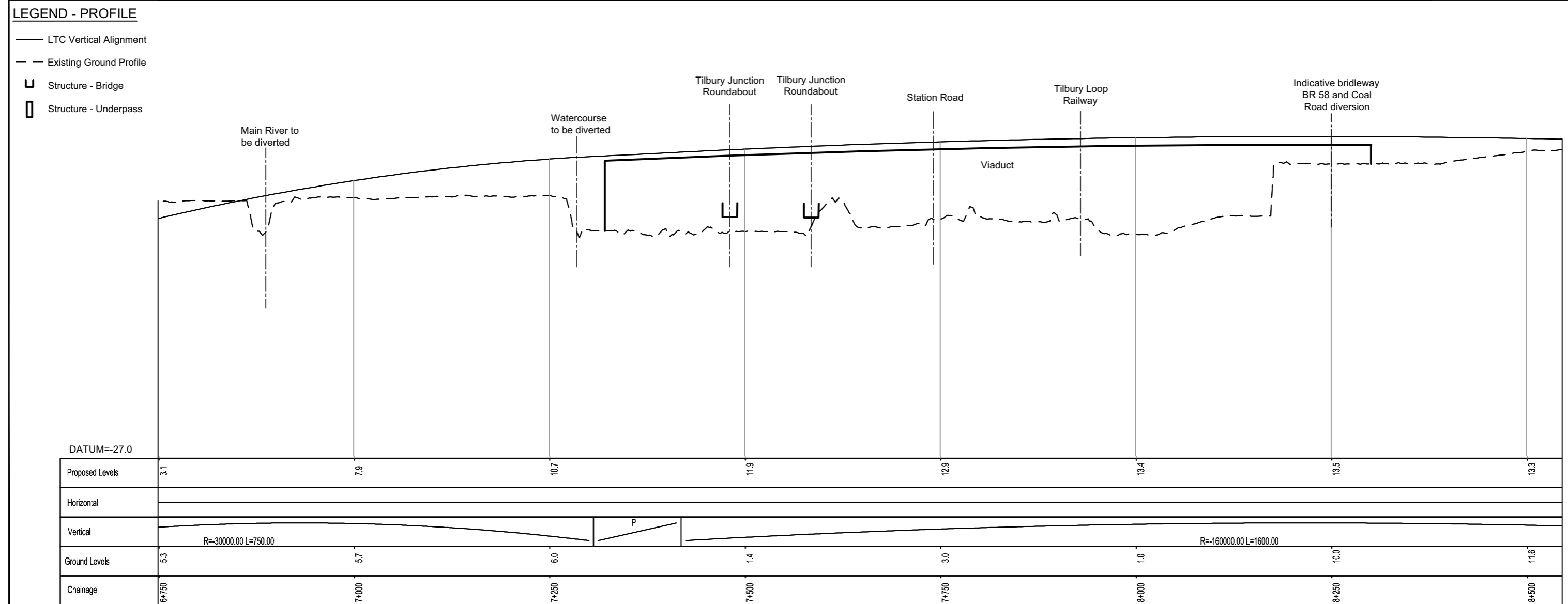
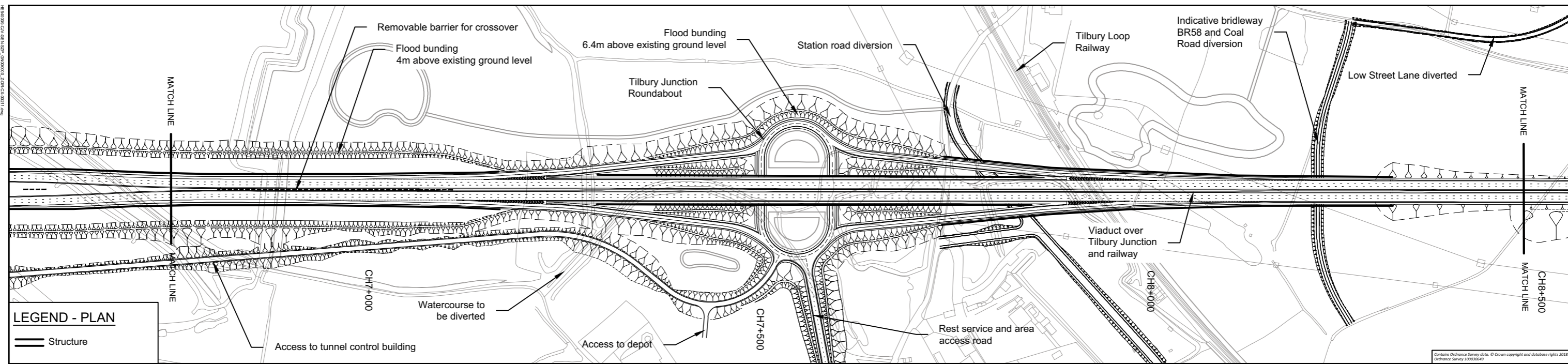


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

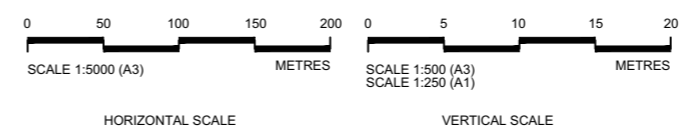
Drawing title **PLAN AND PROFILE SHEET 8**



PROFILE

NOTES

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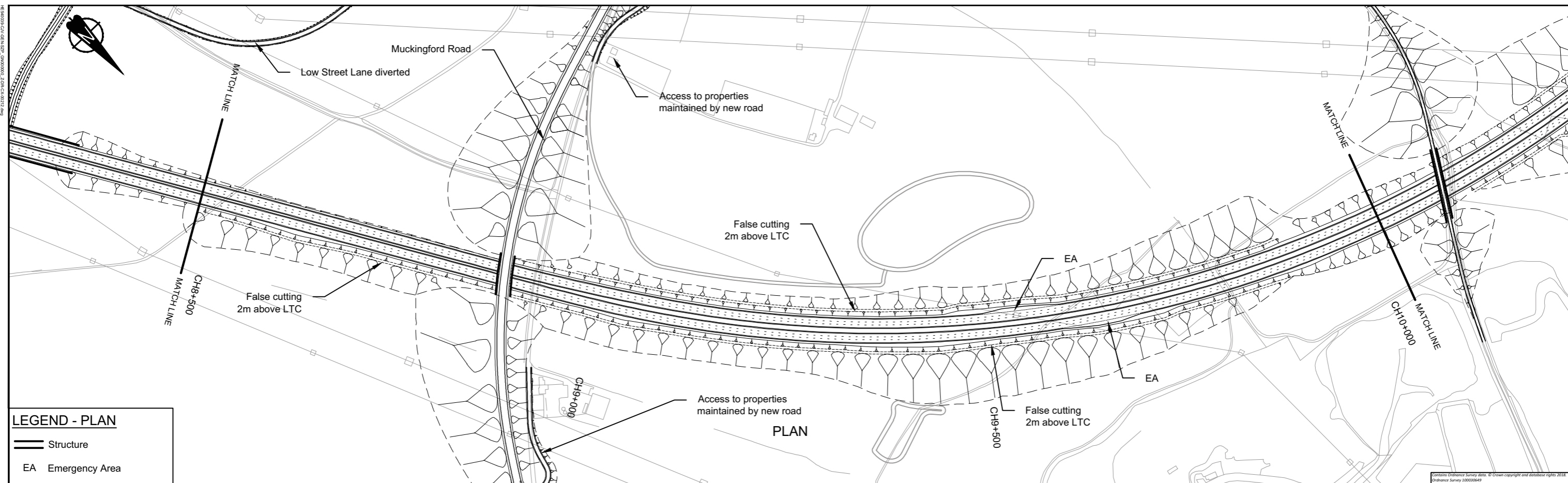


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 9**

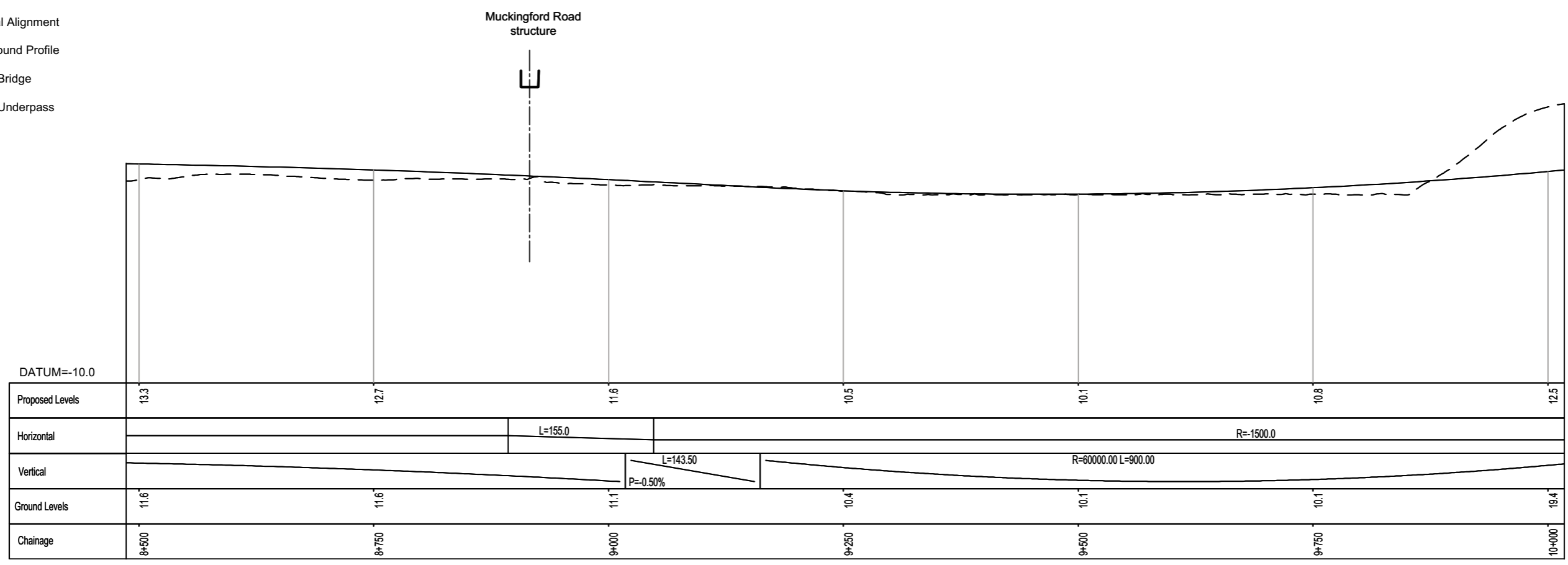


LEGEND - PLAN

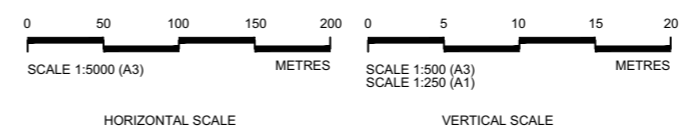
- Structure
- EA Emergency Area

LEGEND - PROFILE

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



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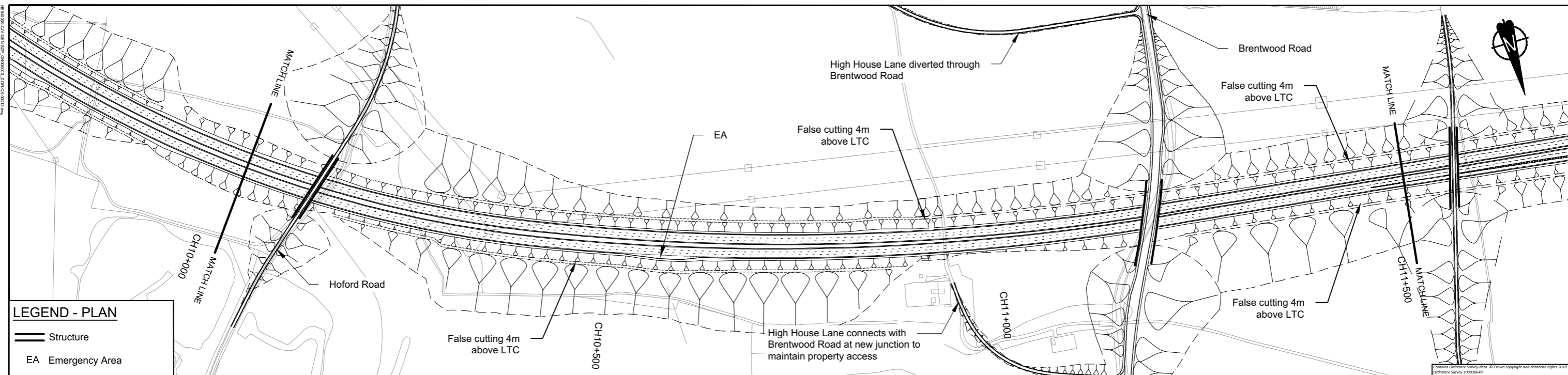


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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 10**



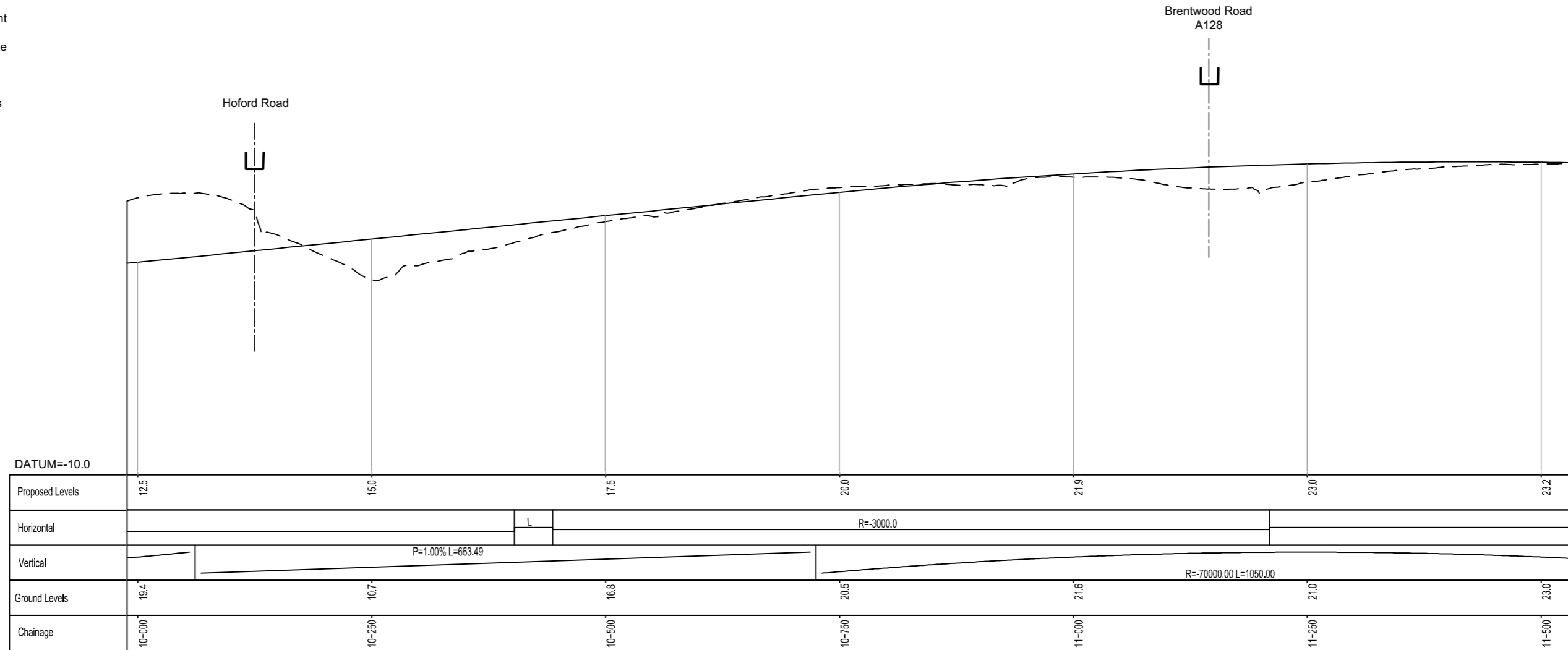
LEGEND - PLAN

- Structure
- EA Emergency Area

LEGEND - PROFILE

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

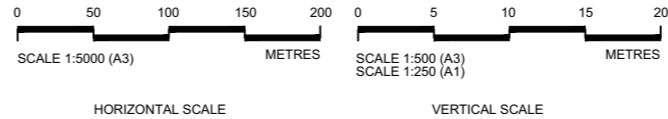
PLAN



PROFILE

NOTES

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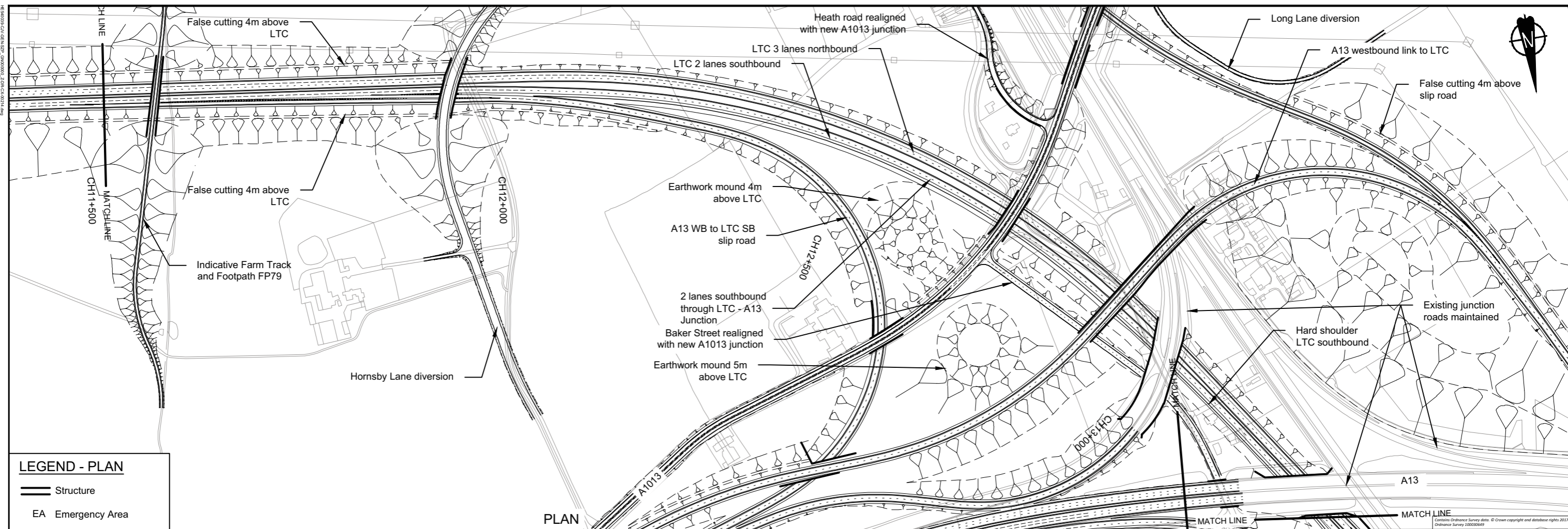


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 11**



LEGEND - PLAN

Structure

EA Emergency Area

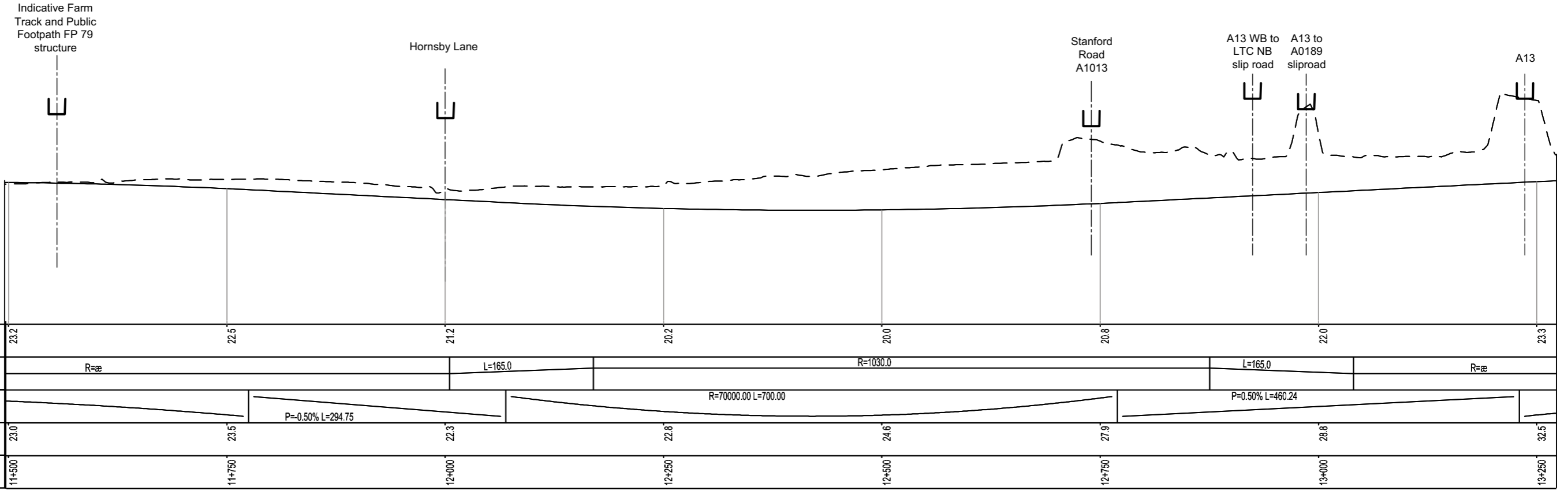
LEGEND - PROFILE

LTC Vertical Alignment

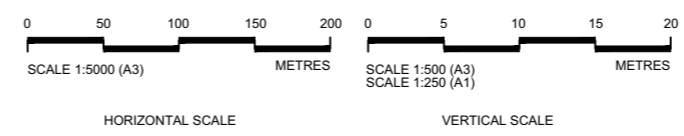
Existing Ground Profile

Structure - Bridge

Structure - Underpass



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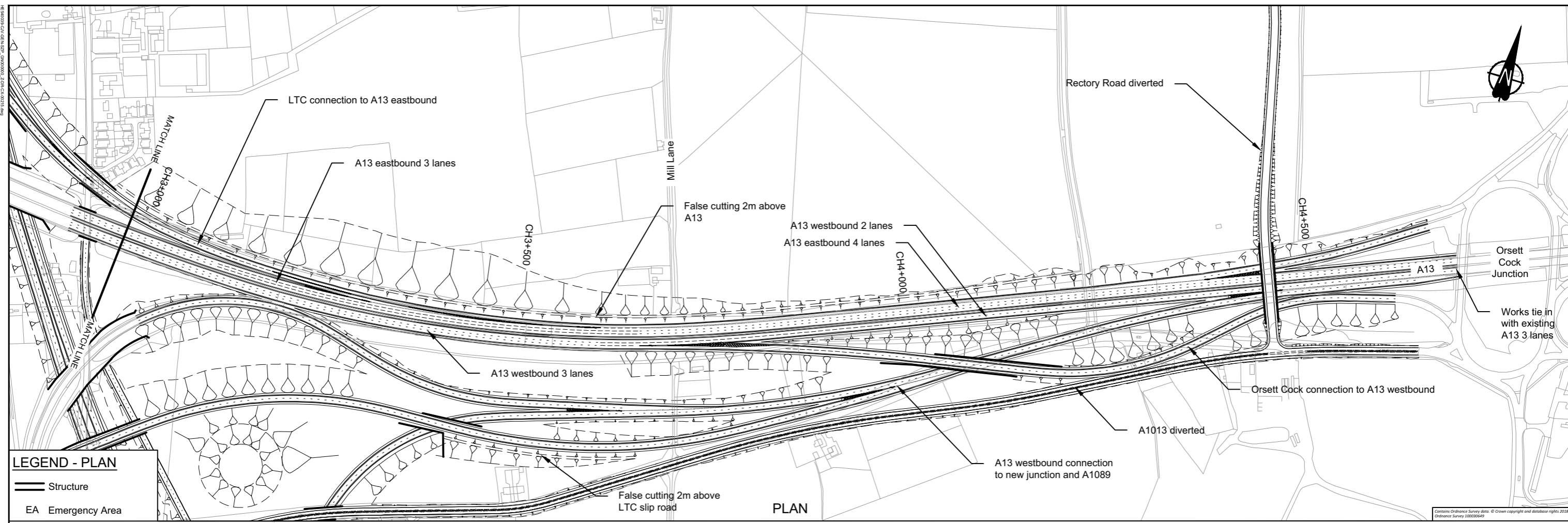


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 12**

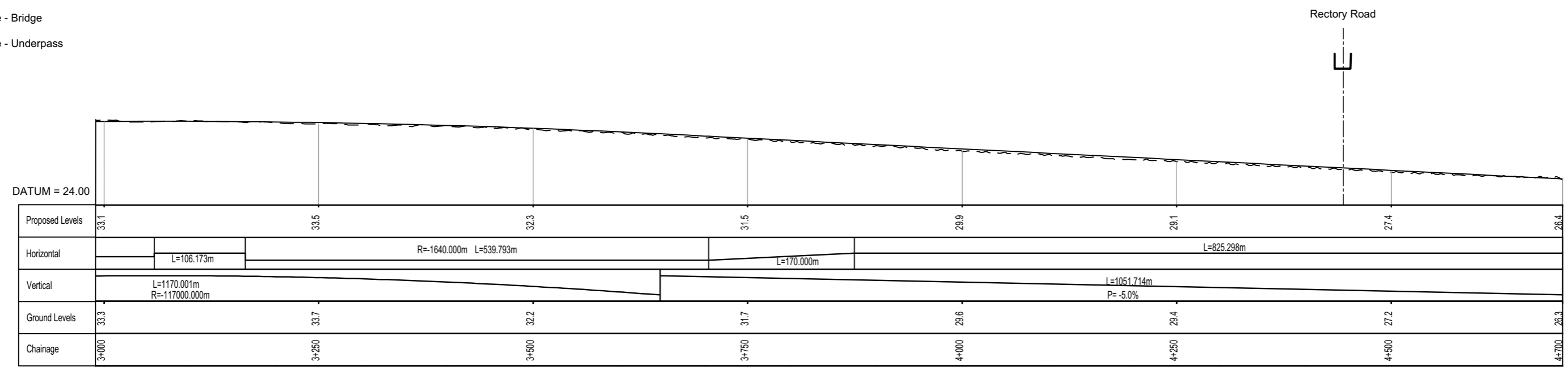


LEGEND - PLAN

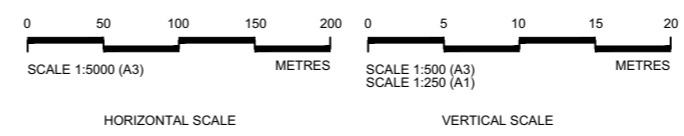
- Structure
- EA Emergency Area

LEGEND - PROFILE

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



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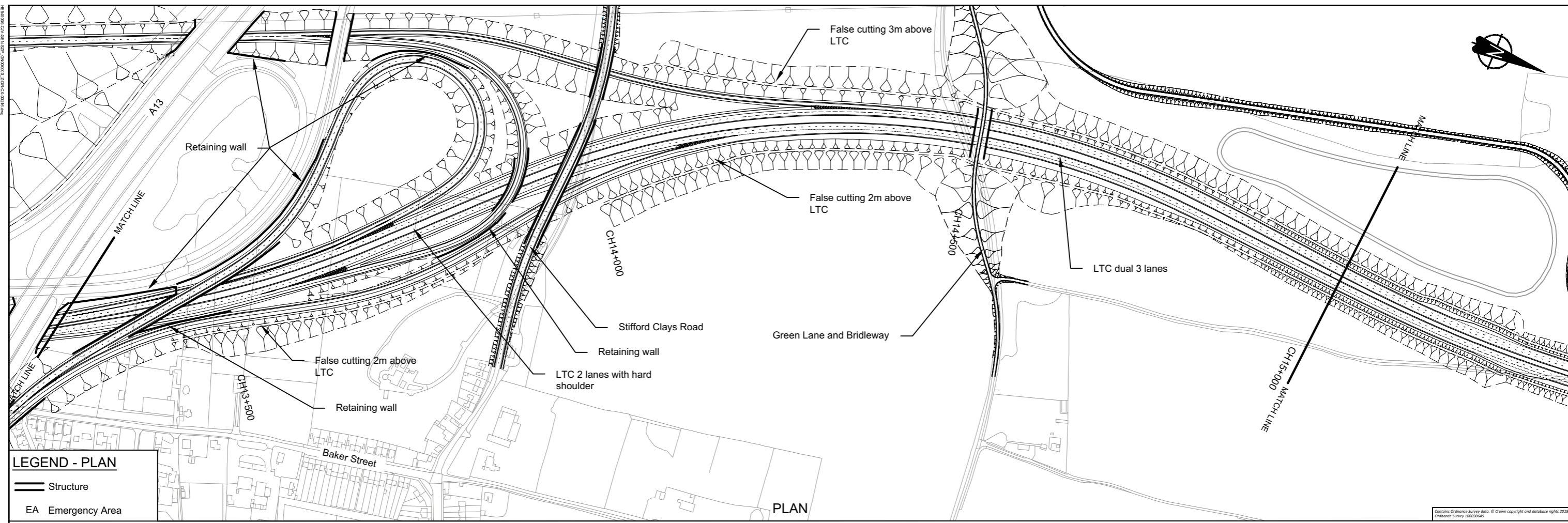


Client **highways england**

PROPOSALS FOR CONSULTATION

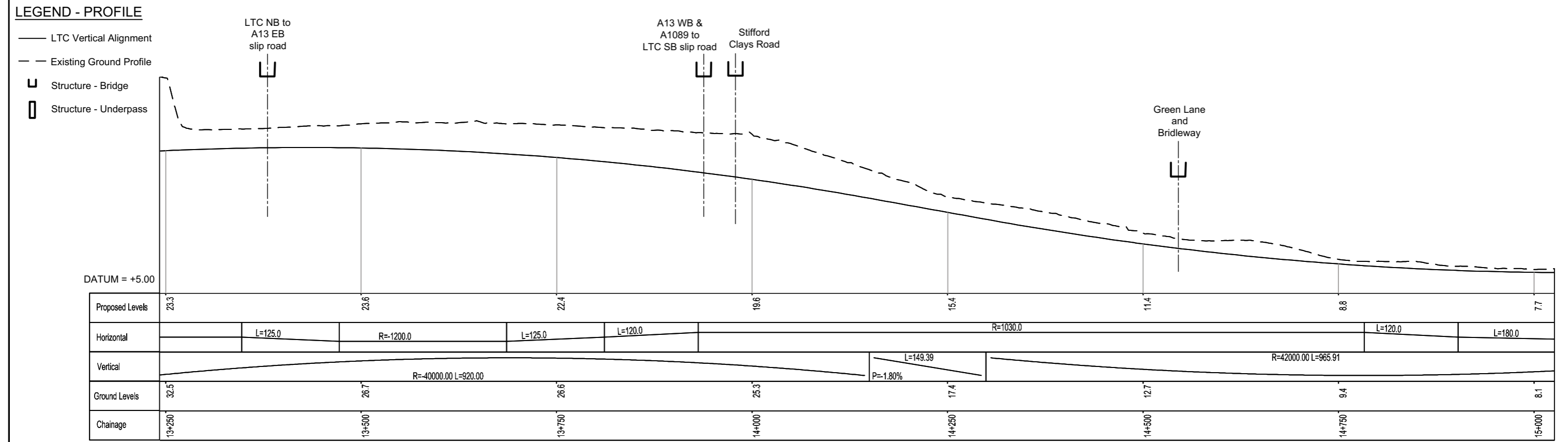
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 13**



LEGEND - PLAN

- Structure
- EA Emergency Area



NOTES

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- Profile uses an exaggerated scale of 1 horizontal :10 vertical

SCALE 1:5000 (A3)
METRES

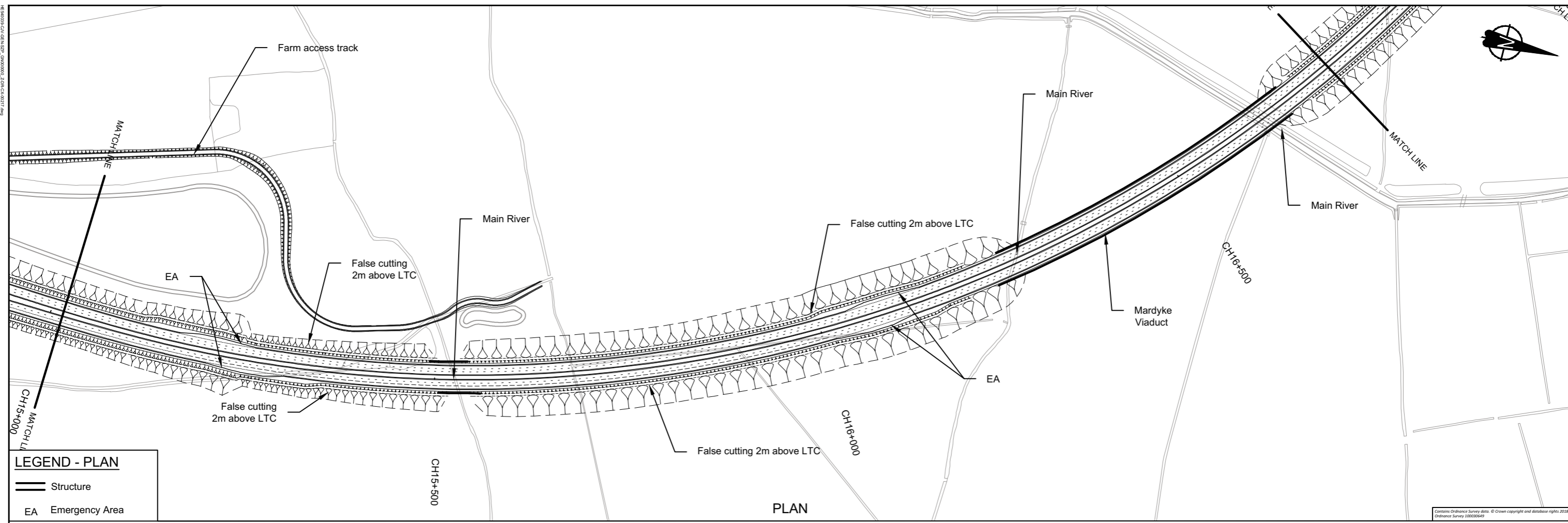
SCALE 1:500 (A3)
SCALE 1:250 (A1)
METRES

PROPOSALS FOR CONSULTATION

Client: **highways england**

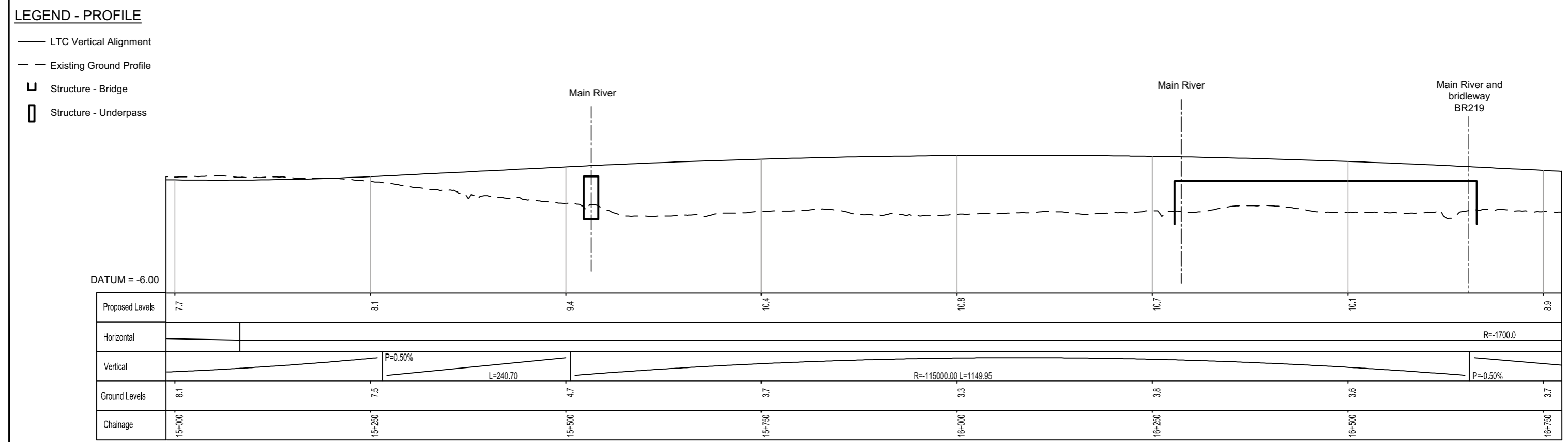
Project: LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title: **PLAN AND PROFILE SHEET 14**



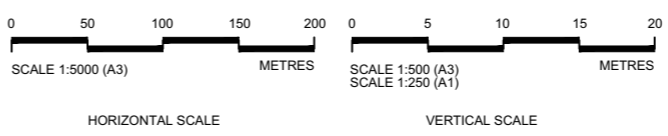
LEGEND - PLAN

	Structure
	EA Emergency Area



NOTES

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- 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



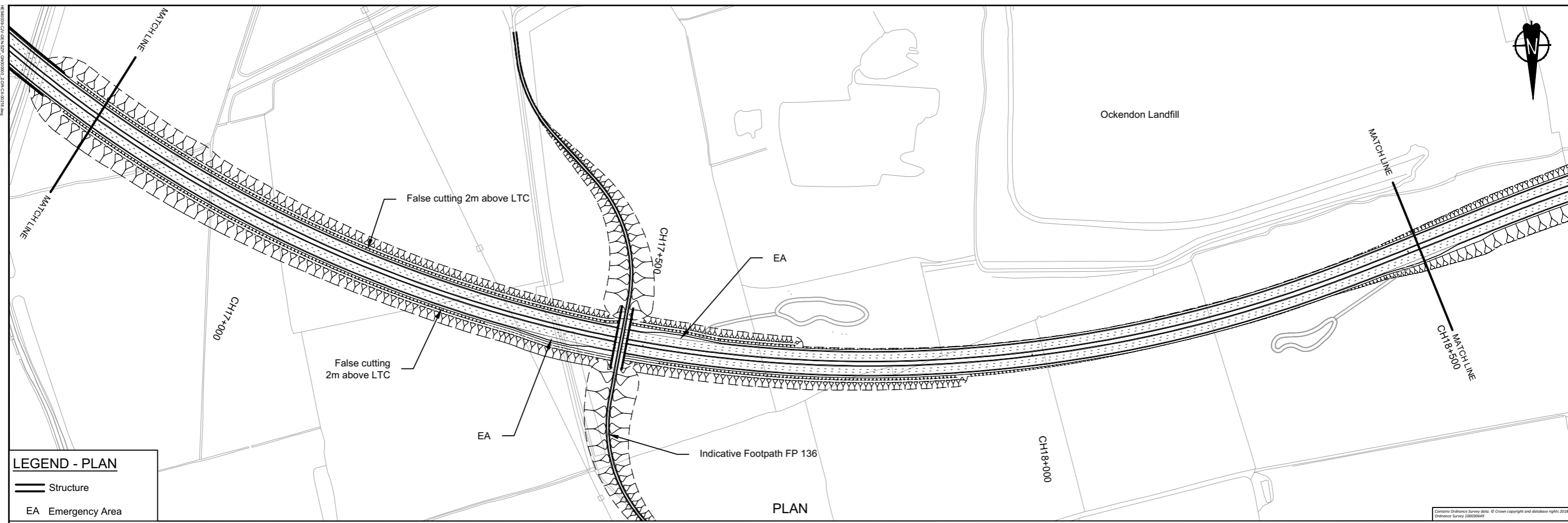
Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 15**

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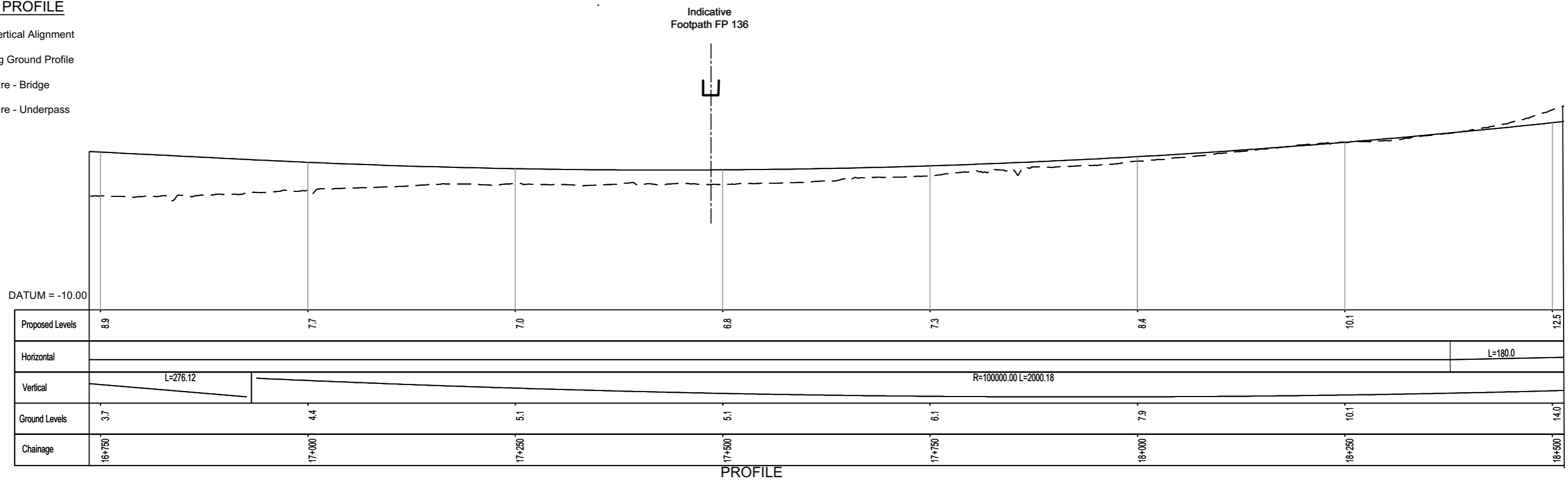


LEGEND - PLAN

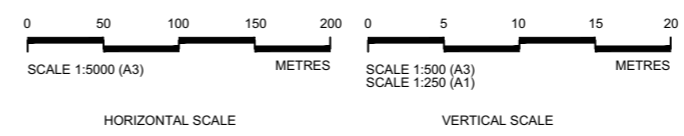
	Structure
	EA Emergency Area

LEGEND - PROFILE

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



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

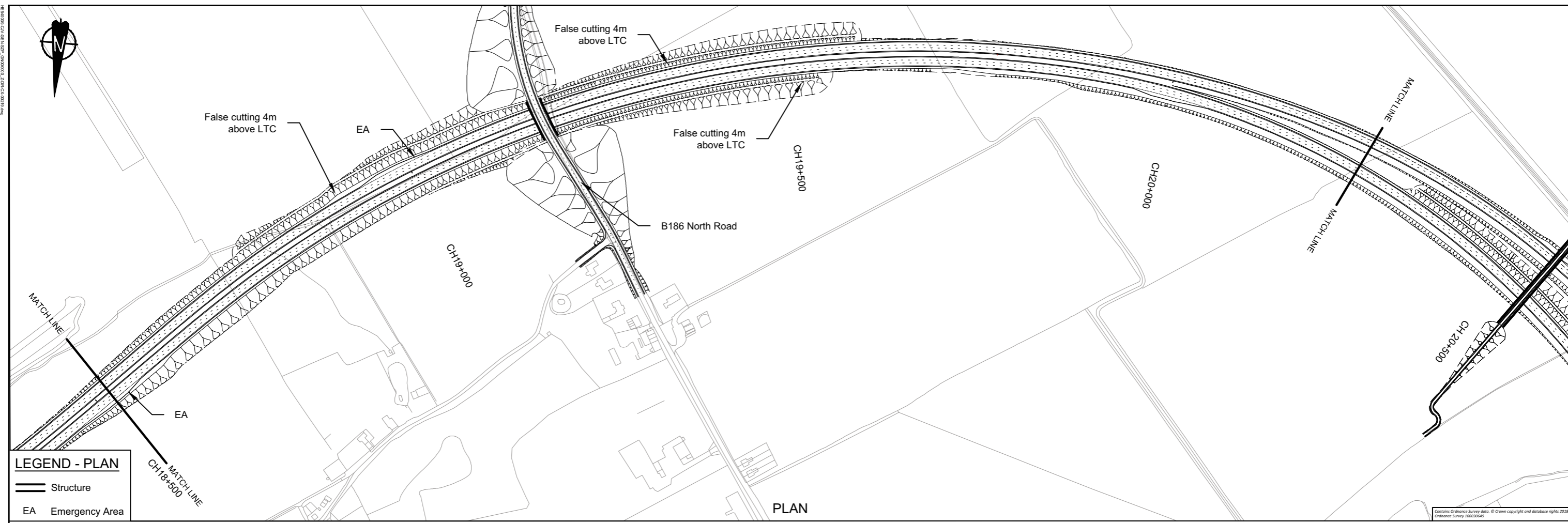


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 16**

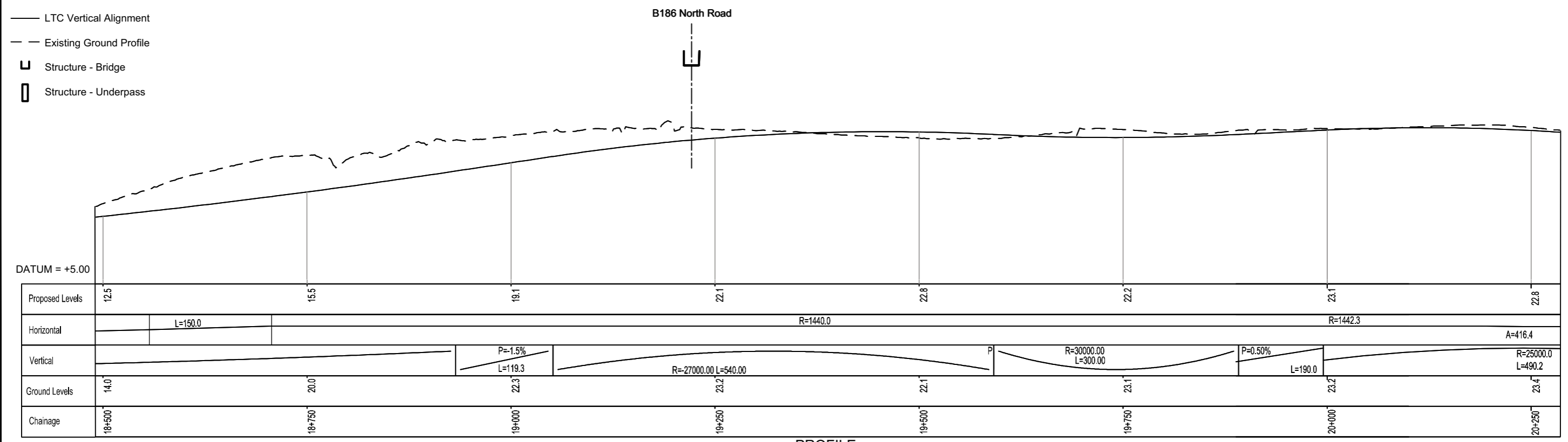


LEGEND - PLAN

	Structure
	EA Emergency Area

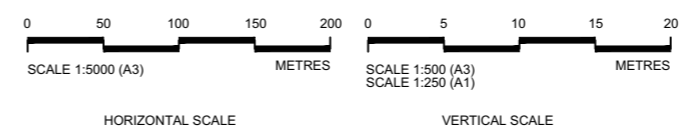
LEGEND - PROFILE

	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

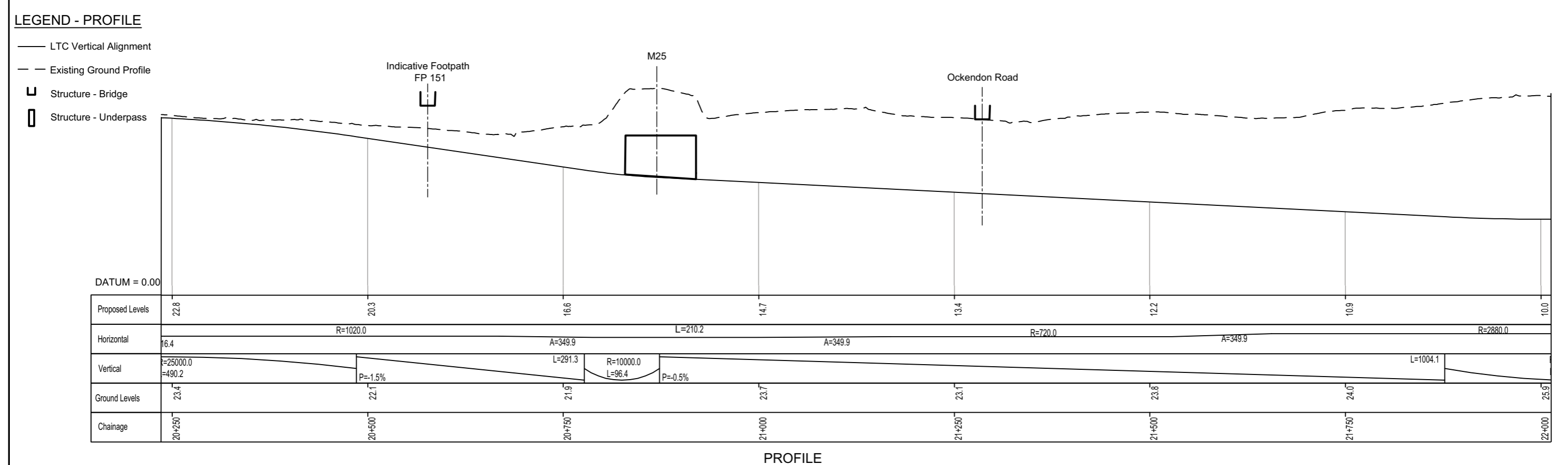
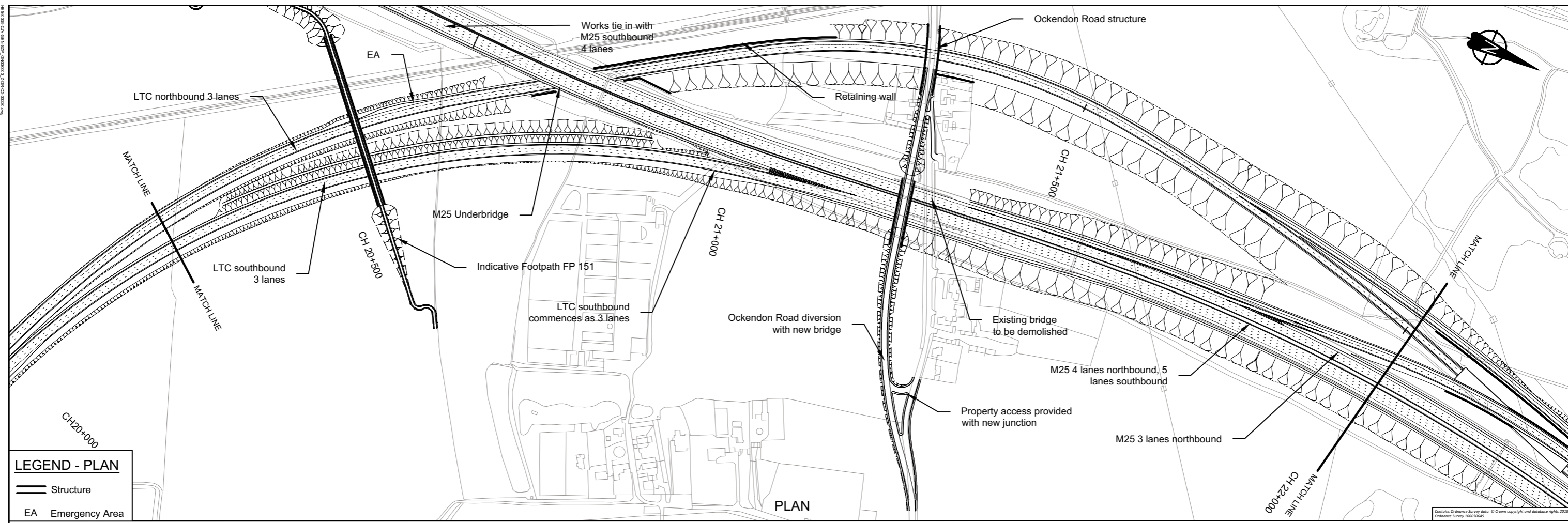


Client

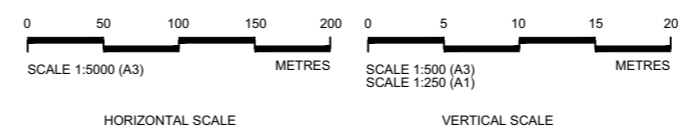
PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY 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

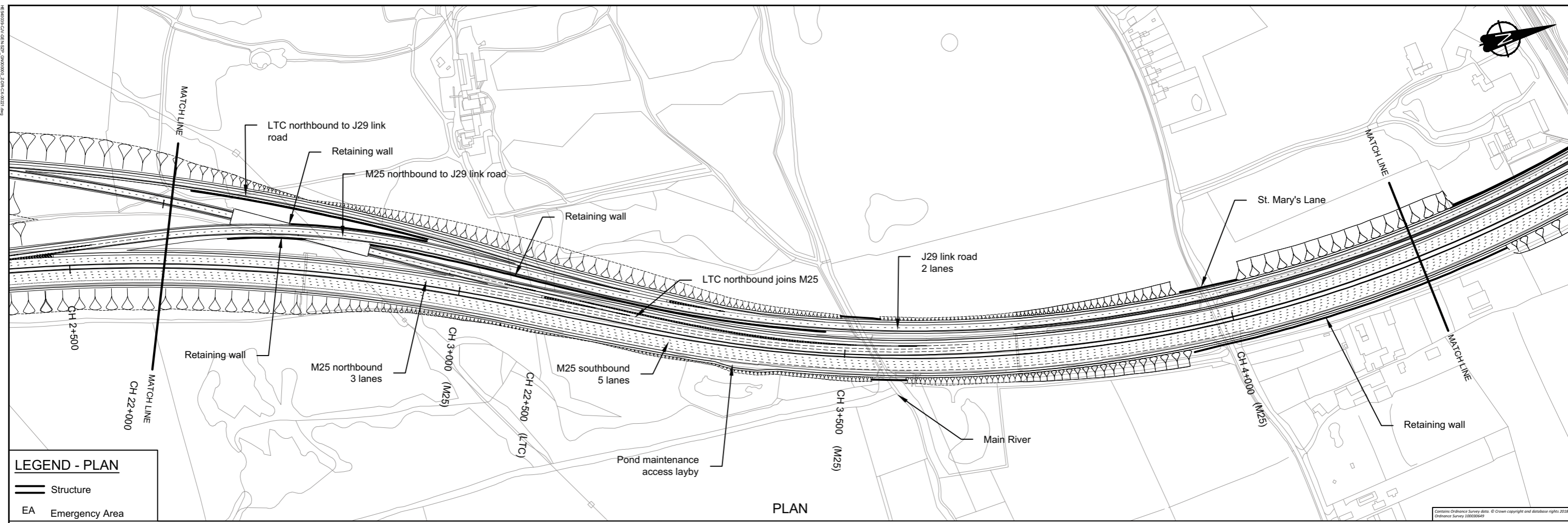


Client **highways england**

PROPOSALS FOR CONSULTATION

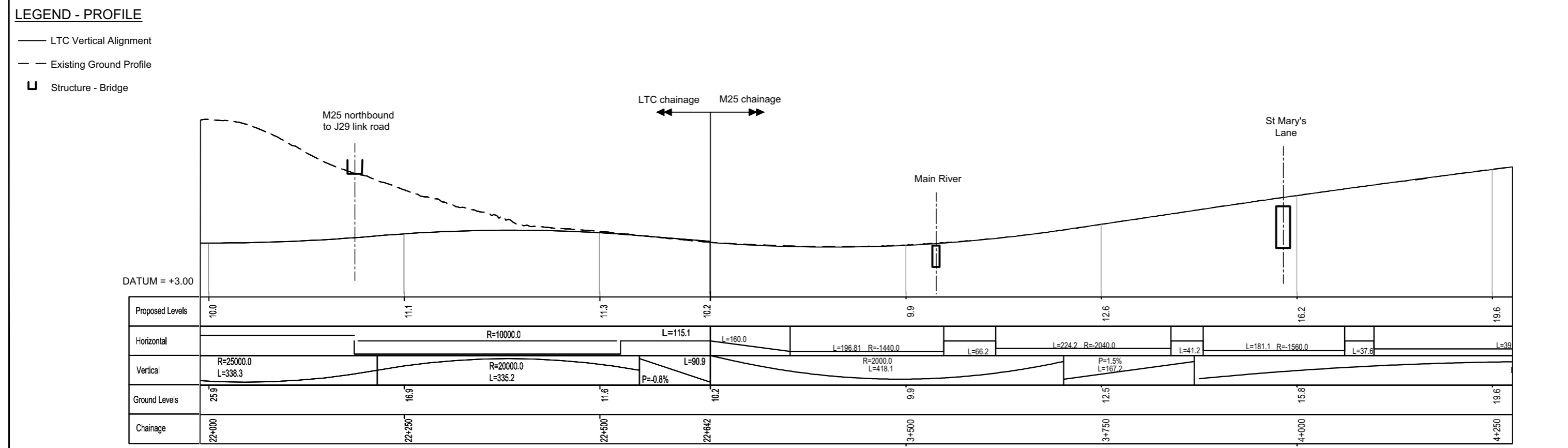
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 18**

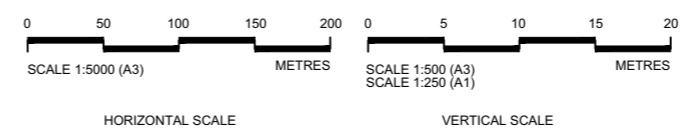


LEGEND - PLAN

- Structure
- EA Emergency Area



- 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

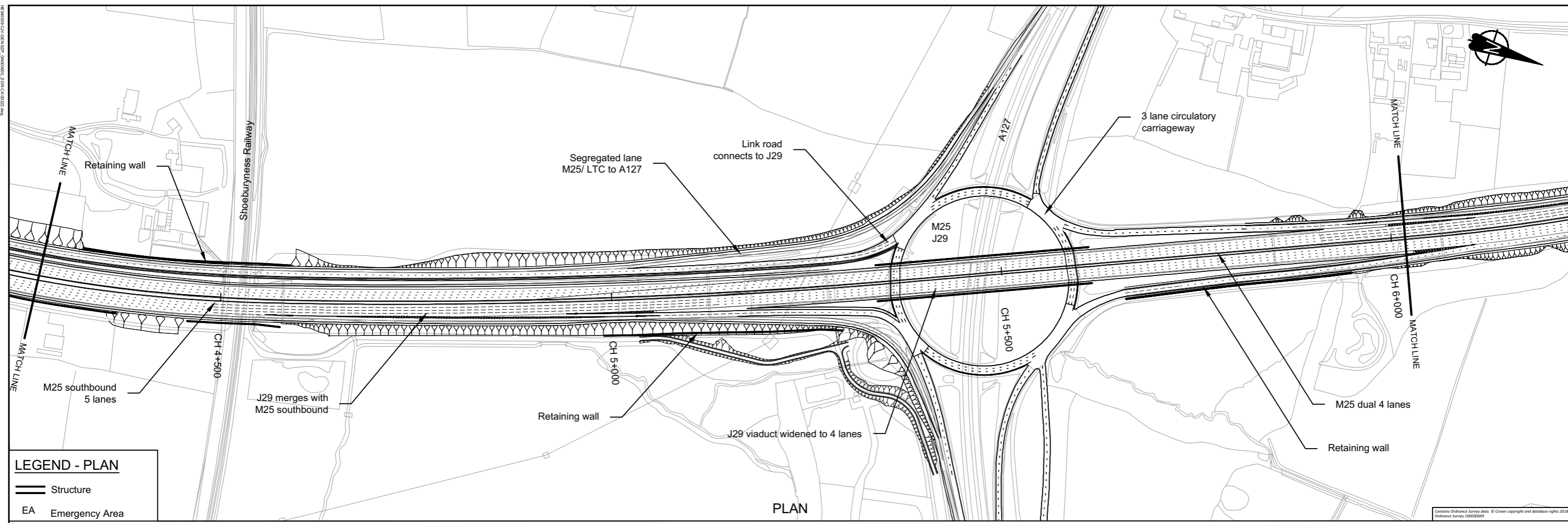


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 19**

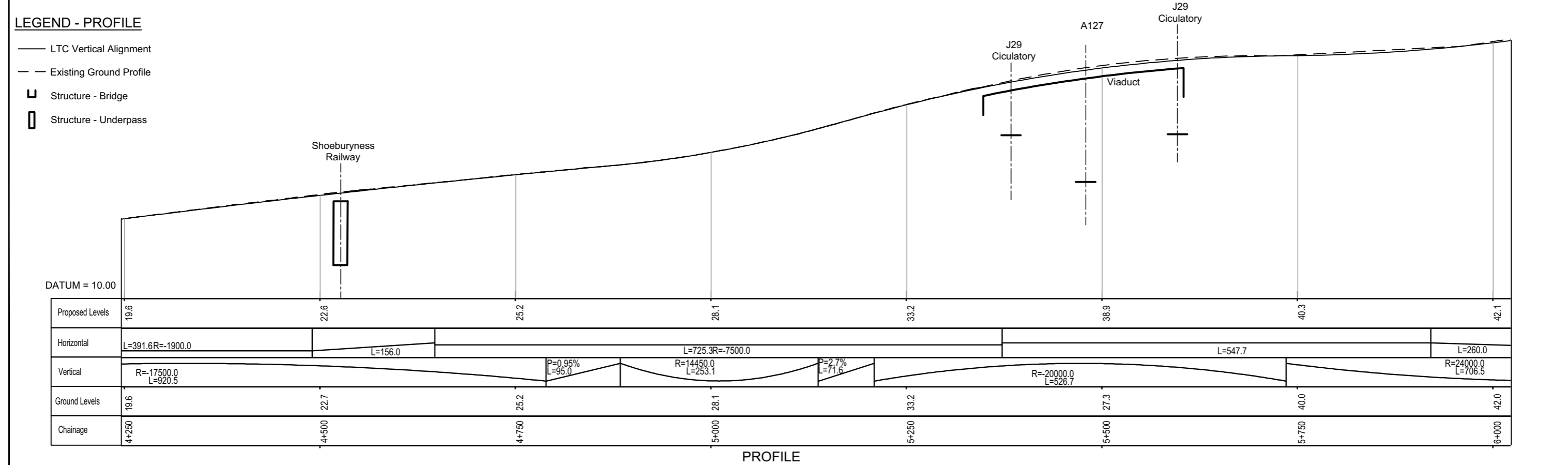


LEGEND - PLAN

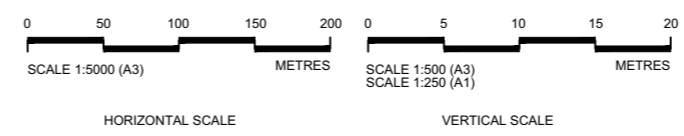
	Structure
	EA Emergency Area

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

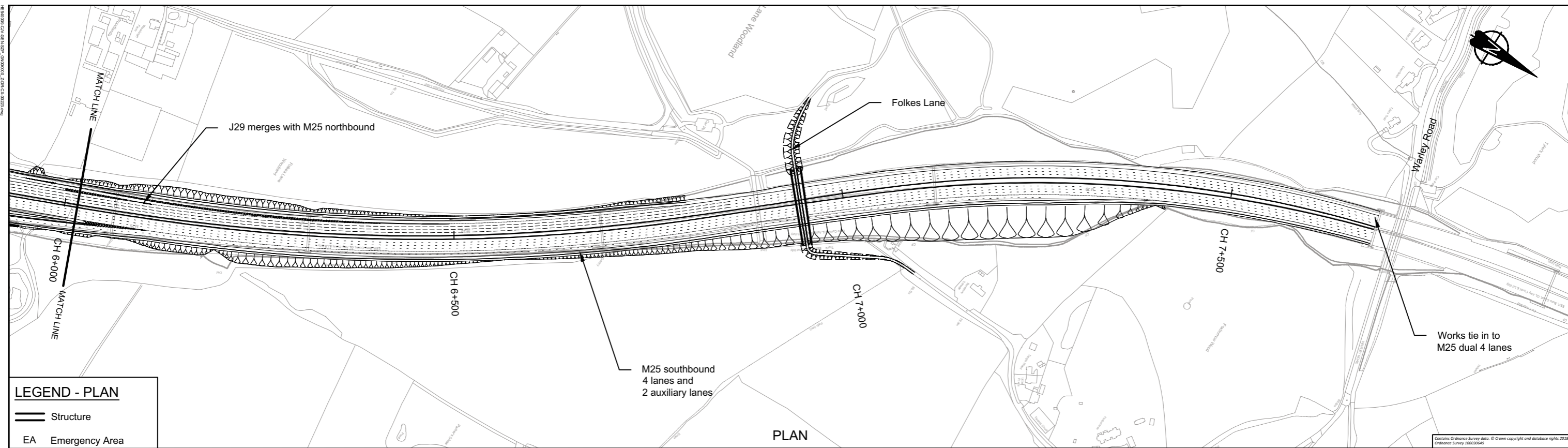


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **PLAN AND PROFILE SHEET 20**



LEGEND - PLAN

Structure

EA Emergency Area

PLAN

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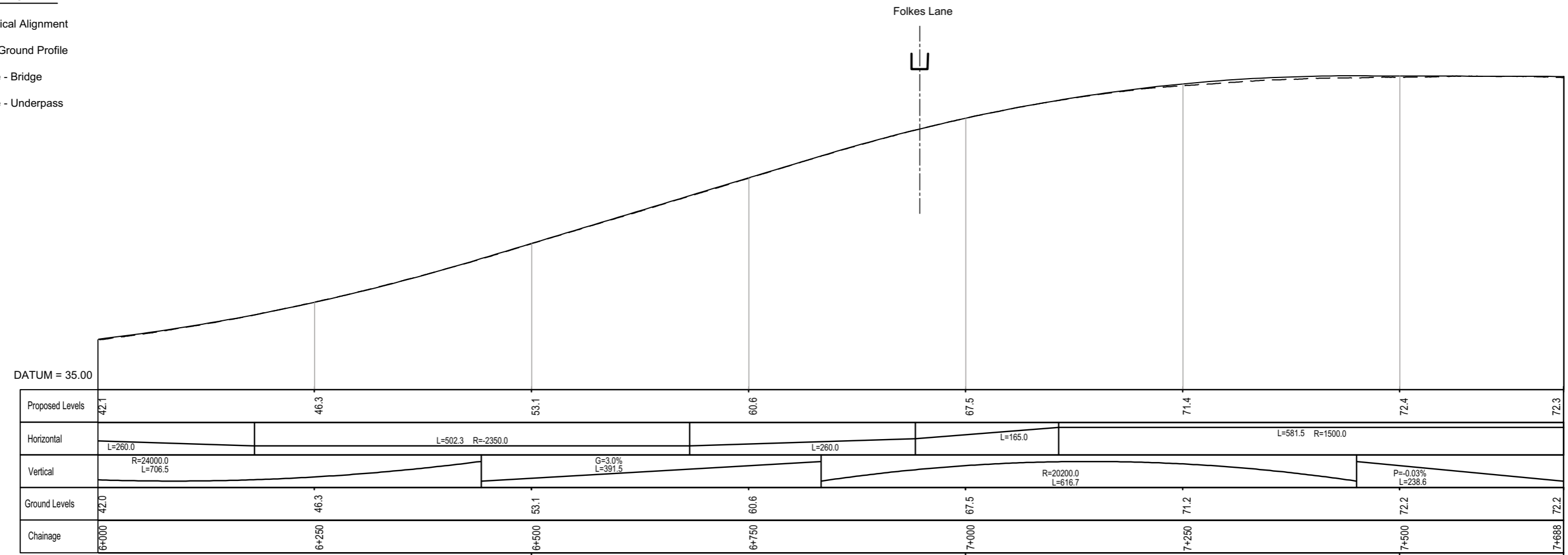
LEGEND - PROFILE

LTC Vertical Alignment

Existing Ground Profile

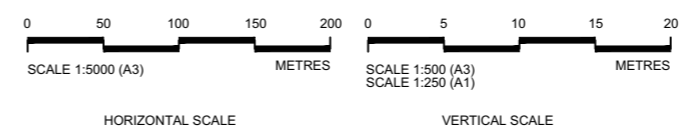
Structure - Bridge

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

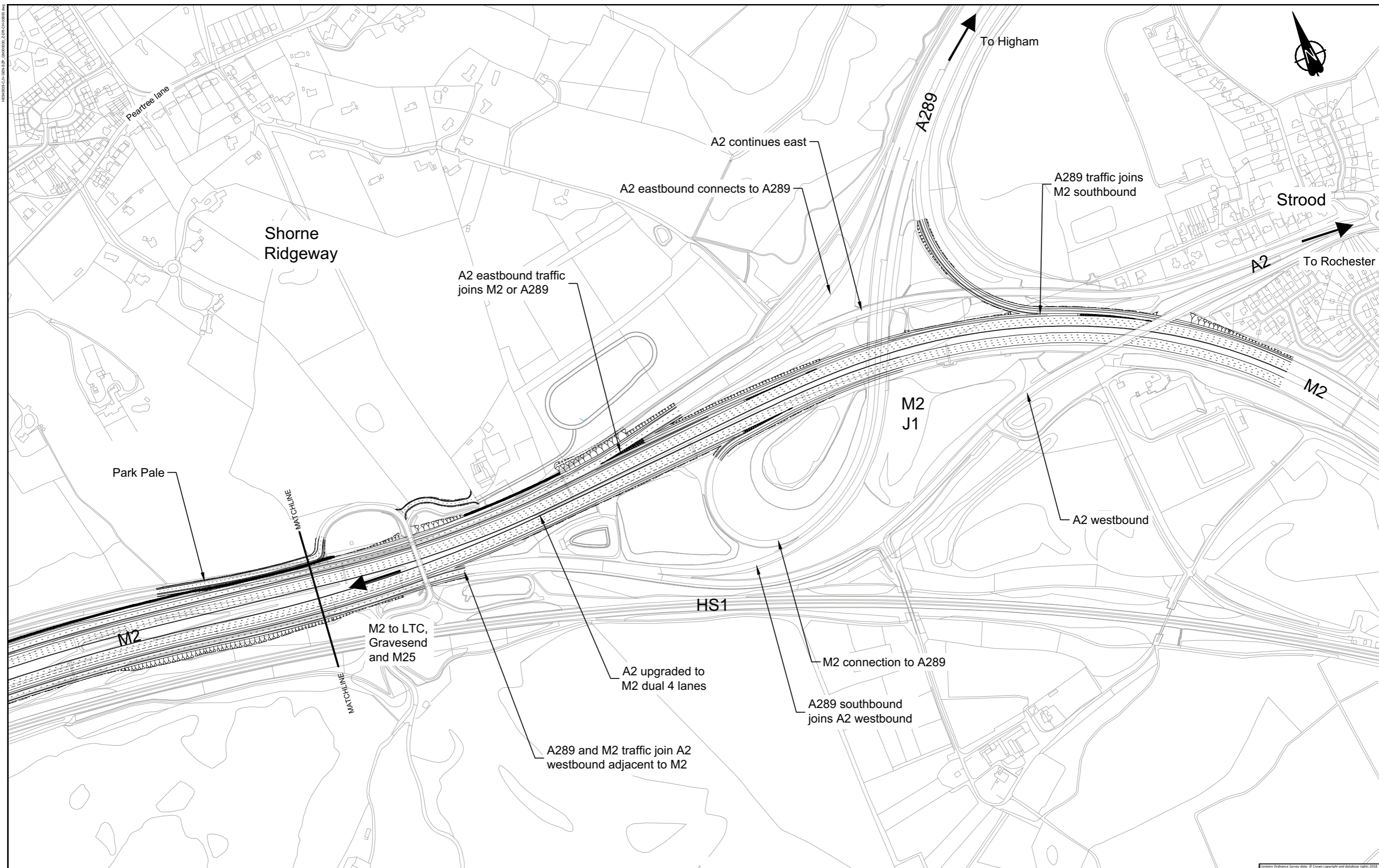


Client

PROPOSALS FOR CONSULTATION

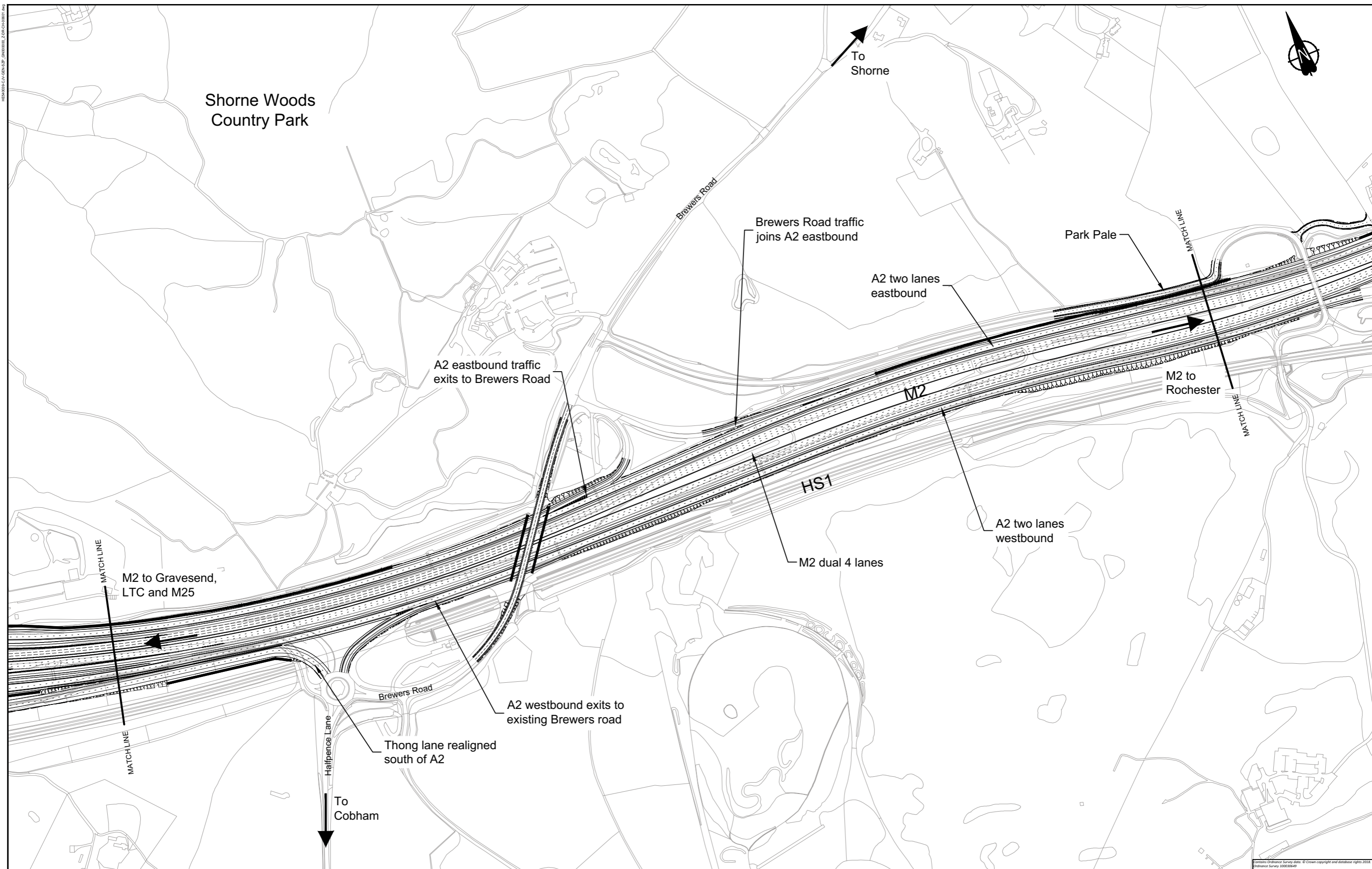
Project LOWER THAMES CROSSING STATUTORY CONSULTATION


Drawing title **PLAN AND PROFILE SHEET 21**

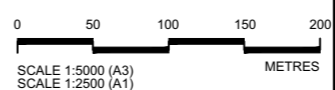


<p>LEGEND:</p> <p> Structures</p> <p>0 50 100 150 200 SCALE 1:5000 (A3) SCALE 1:2500 (A1) METRES</p>	<p>Client</p>  <p>PROPOSALS FOR CONSULTATION</p>	<p>Project</p> <p>LOWER THAMES CROSSING STATUTORY CONSULTATION</p> <p>Drawing title</p> <p>M2 JUNCTION</p>
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LEGEND:
 Structures

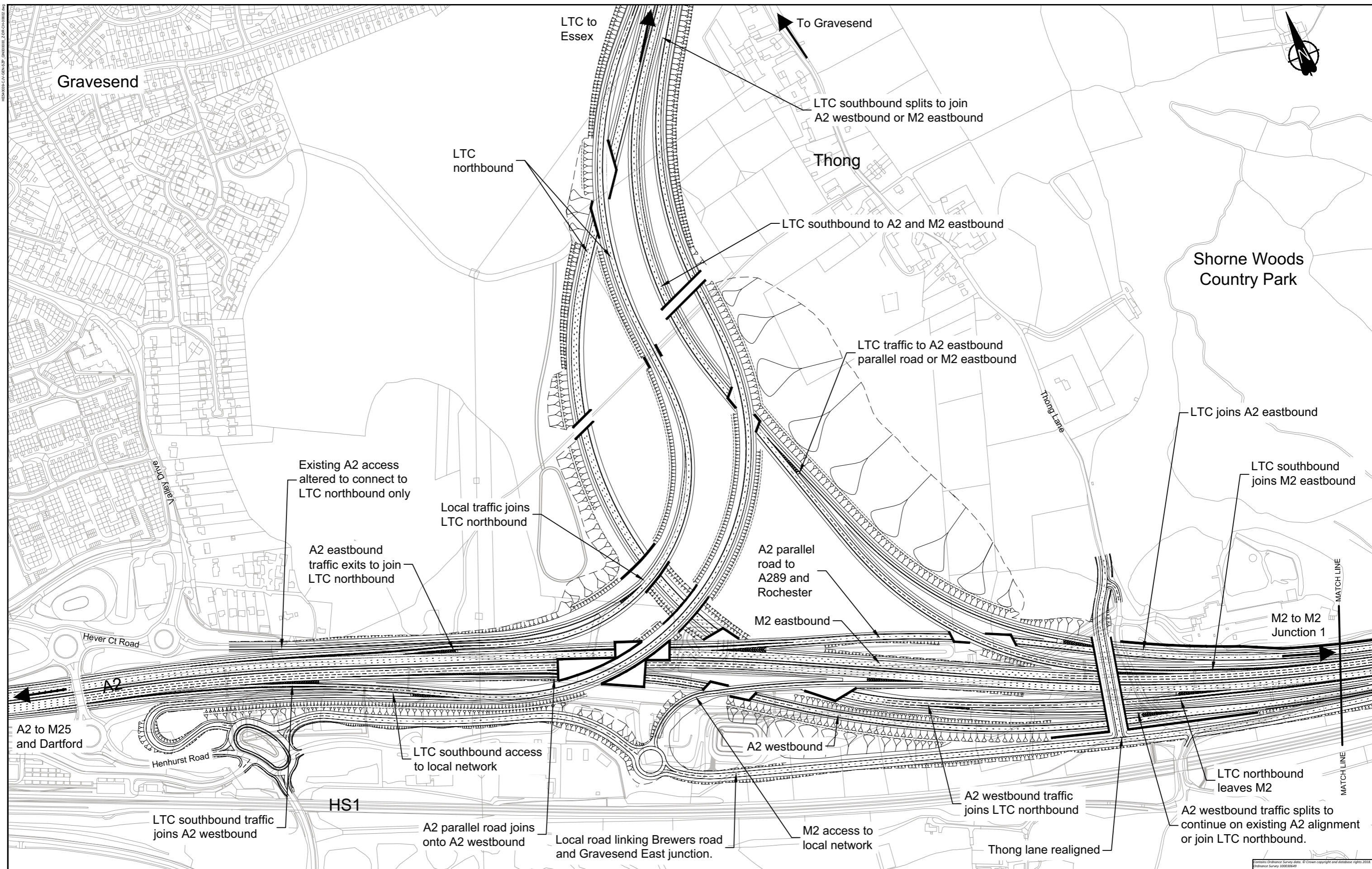


Client

PROPOSALS FOR CONSULTATION

Project
 LOWER THAMES CROSSING
 STATUTORY CONSULTATION
 Drawing title
M2 TO A2 JUNCTION

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LEGEND:

— Structures

0 50 100 150 200
 SCALE 1:5000 (A3)
 SCALE 1:2500 (A1)
 METRES

Client

Project

LOWER THAMES CROSSING
 STATUTORY CONSULTATION

Drawing title

**PROPOSALS FOR
 CONSULTATION**

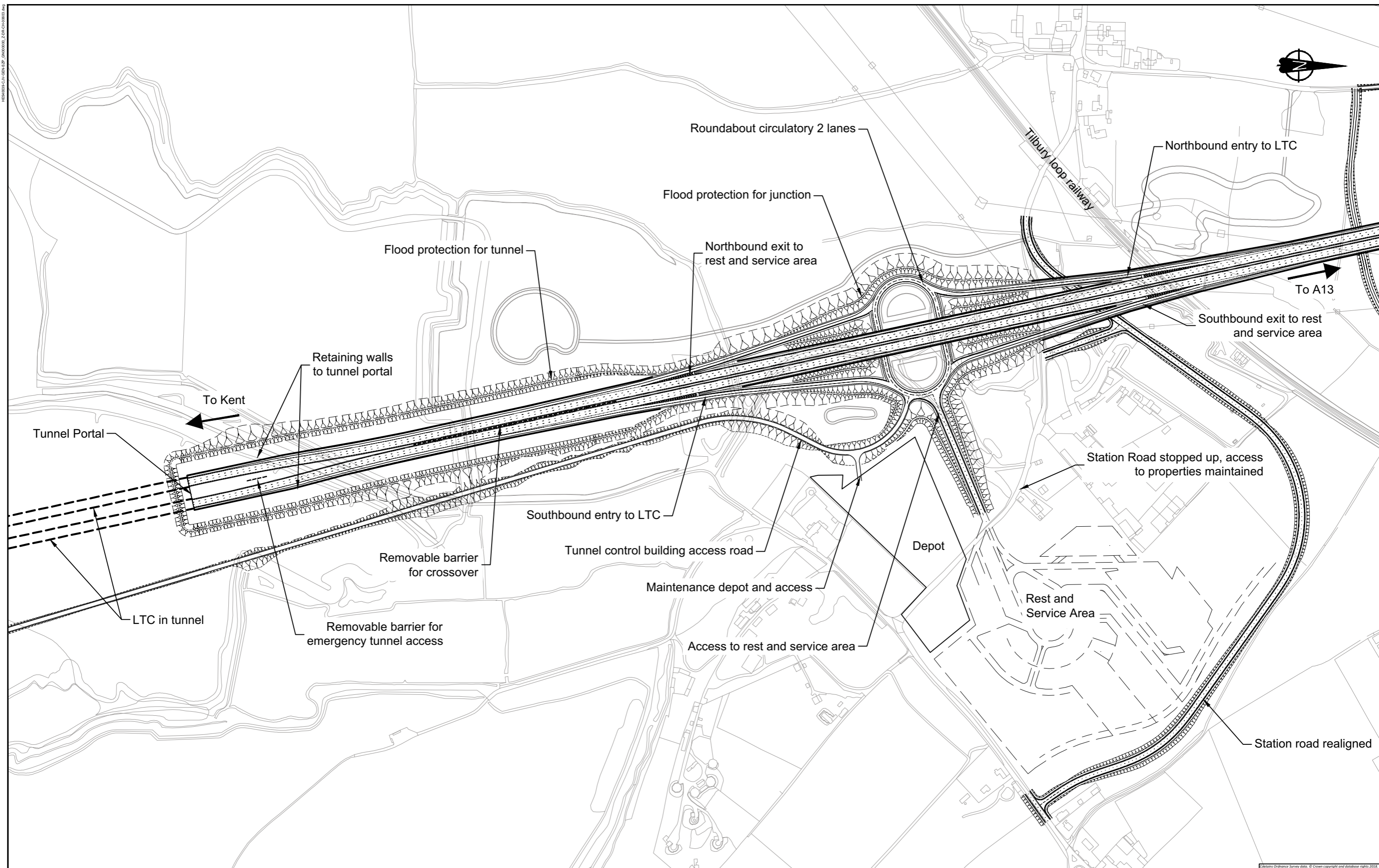
A2 JUNCTION

Project

LOWER THAMES CROSSING
 STATUTORY CONSULTATION

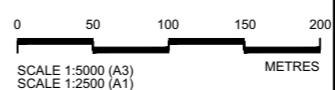
Drawing title

A2 JUNCTION



LEGEND:
 — Structures
 - - - Removable barrier

30/08/2018

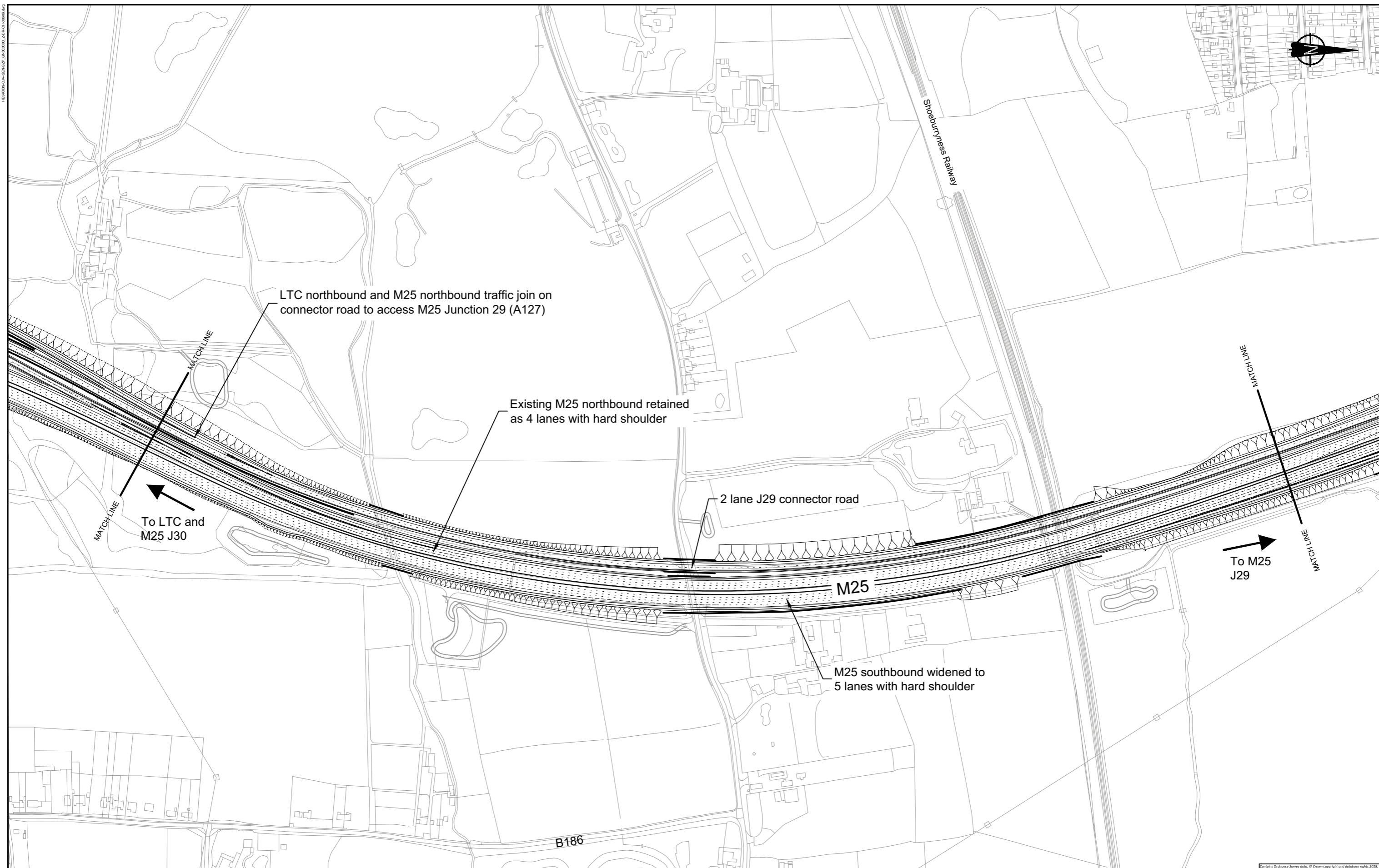


Client

PROPOSALS FOR CONSULTATION

Project	LOWER THAMES CROSSING STATUTORY CONSULTATION
Drawing title	TILBURY JUNCTION
	30/08/2018
	30/08/2018
	30/08/2018

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LEGEND:

== Structures

0 50 100 150 200 METRES

SCALE 1:5000 (A3)
SCALE 1:2500 (A1)

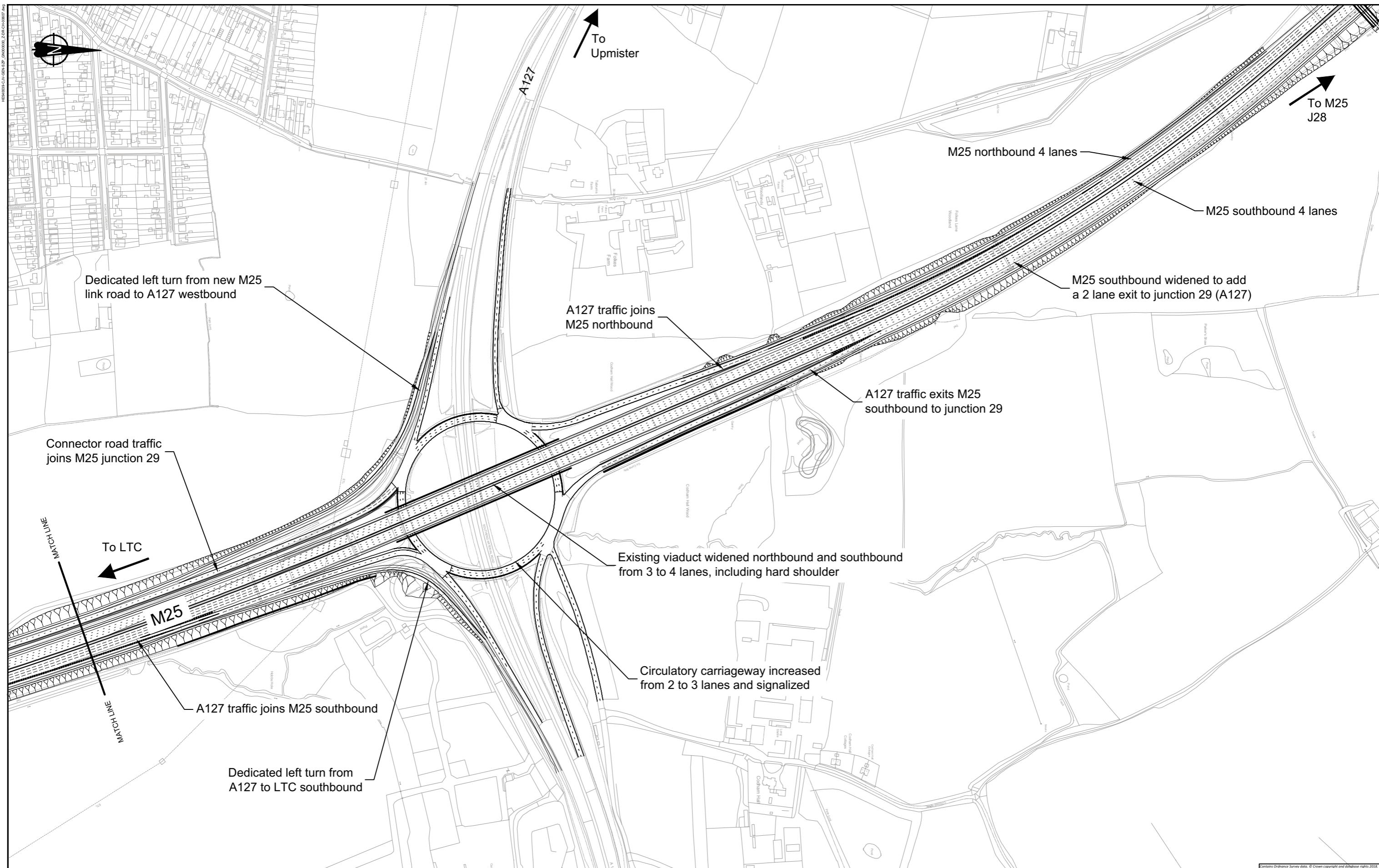
Client

PROPOSALS FOR CONSULTATION

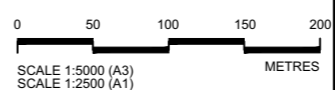
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title M25 TO JUNCTION 29

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LEGEND:
 Structures

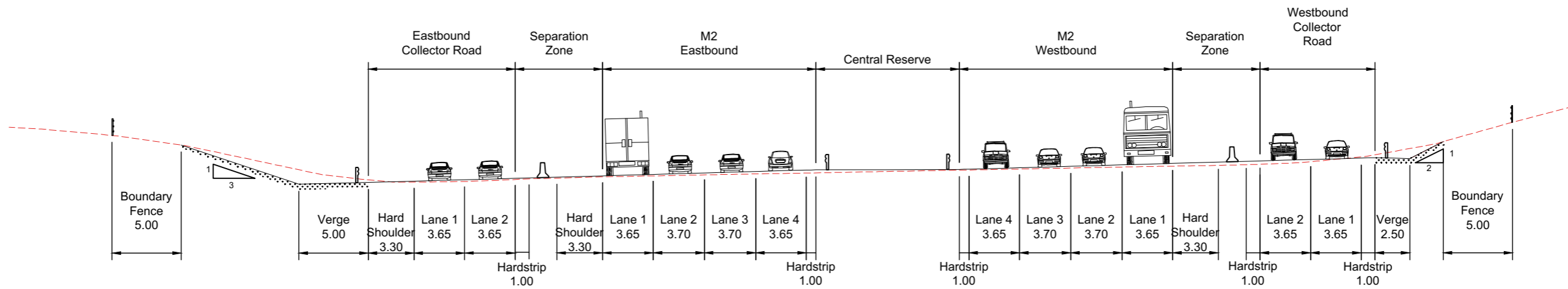
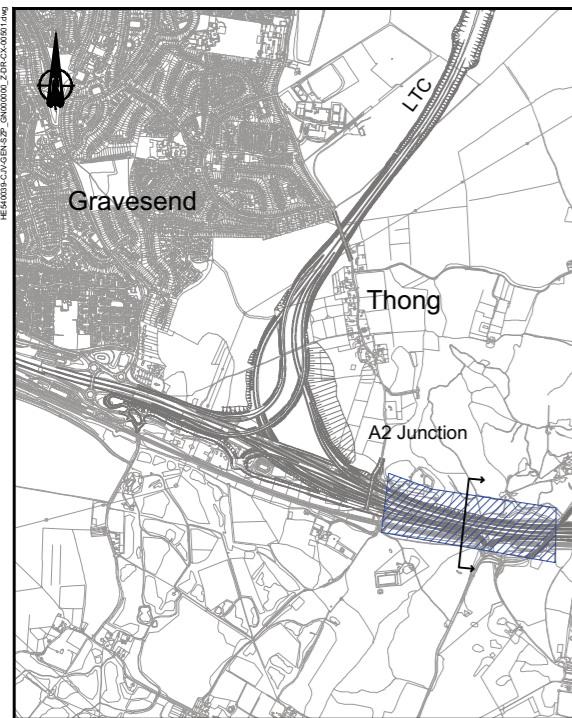


Client

PROPOSALS FOR CONSULTATION

Project
 LOWER THAMES CROSSING STATUTORY CONSULTATION
 Drawing title
 M25 JUNCTION 29

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TYPICAL CROSS SECTION ALONG A2

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

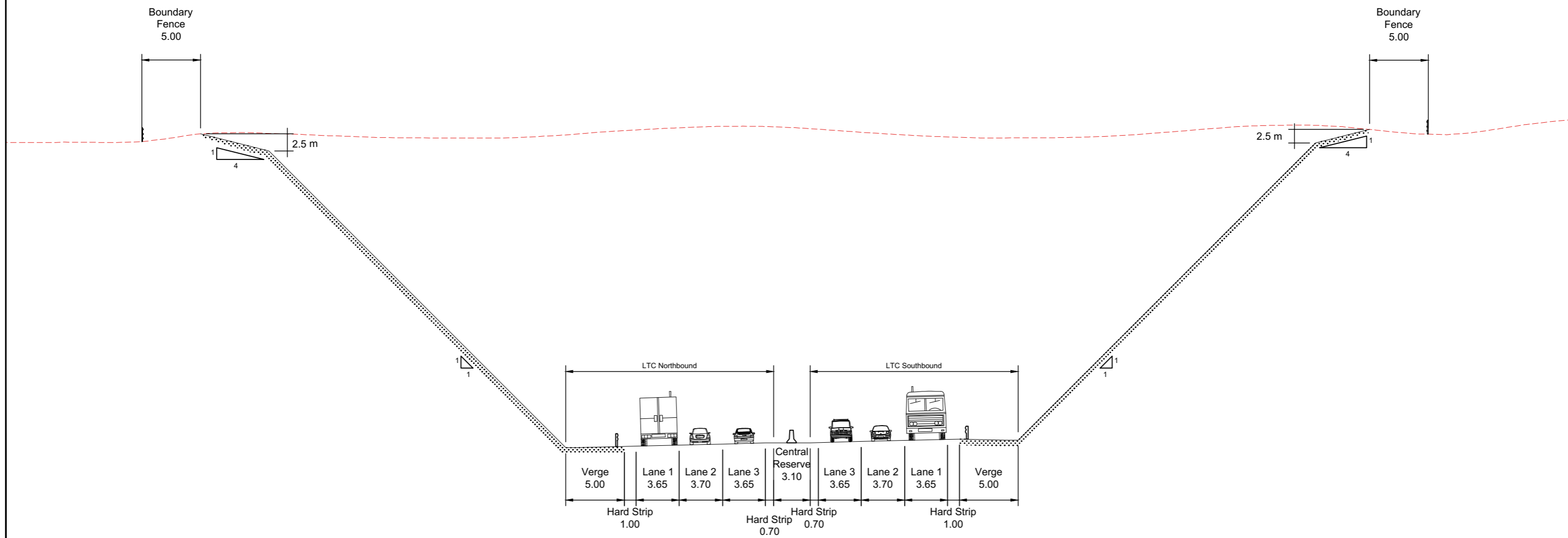
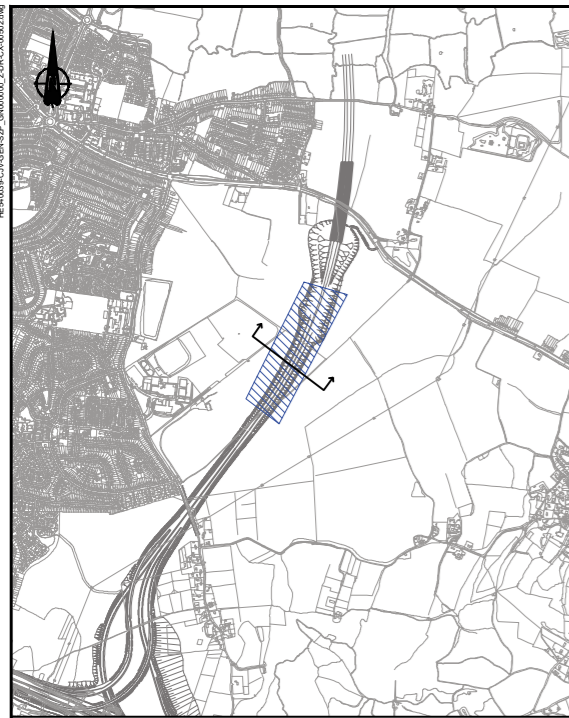
NOTES:
 1. All dimensions are in metres unless stated otherwise.

Not to scale

Client

PROPOSALS FOR CONSULTATION

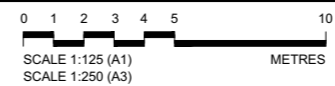
Project LOWER THAMES CROSSING STATUTORY CONSULTATION
 Drawing title **CROSS SECTION A2 WIDENING**



TYPICAL CROSS SECTION IN CHALK CUTTING

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

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

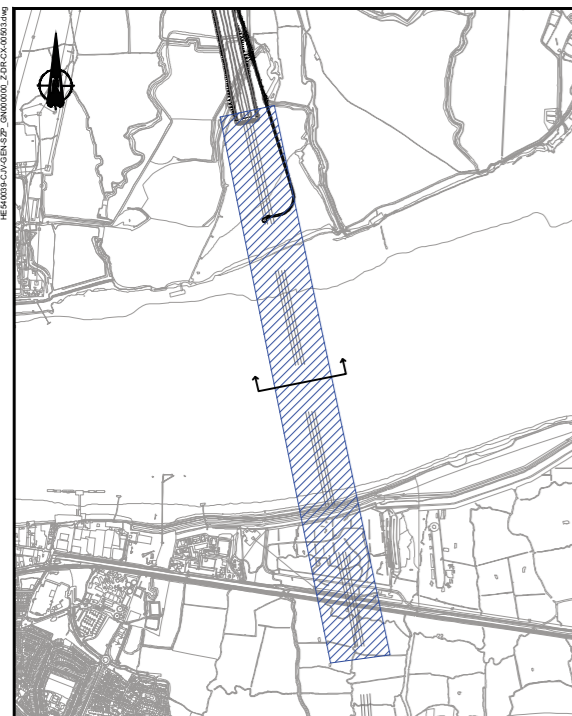


Client **highways england**

PROPOSALS FOR CONSULTATION

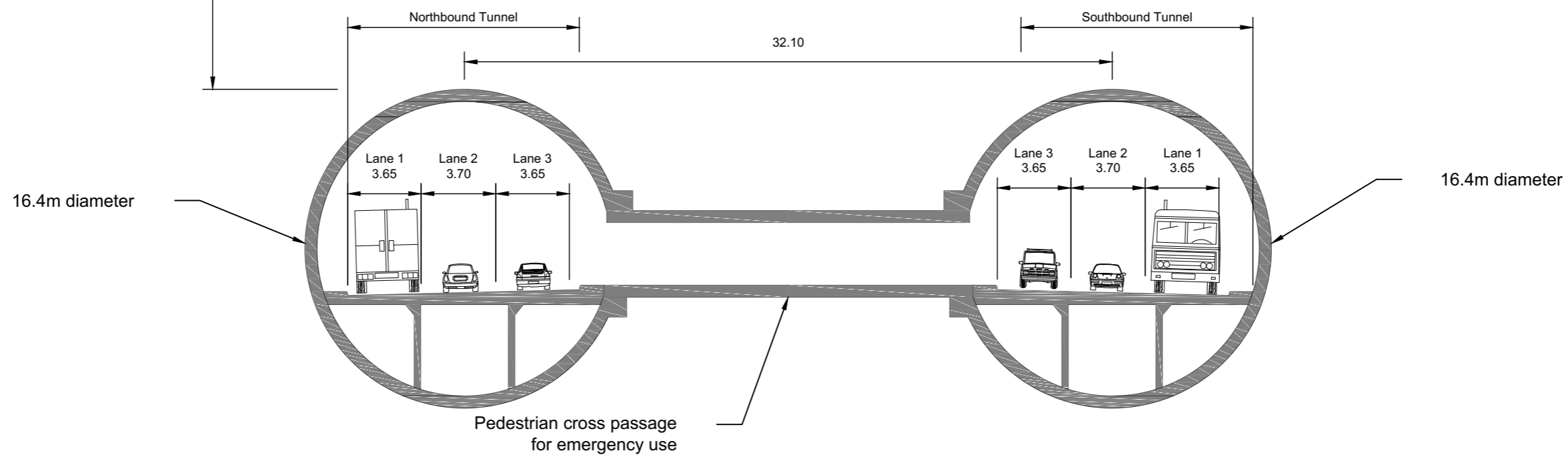
Project LOWER THAMES CROSSING STATUTORY CONSULTATION

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



Depth of tunnel -36.57

MHWS 3.47m



TYPICAL CROSS SECTION THROUGH THE TUNNEL

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

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

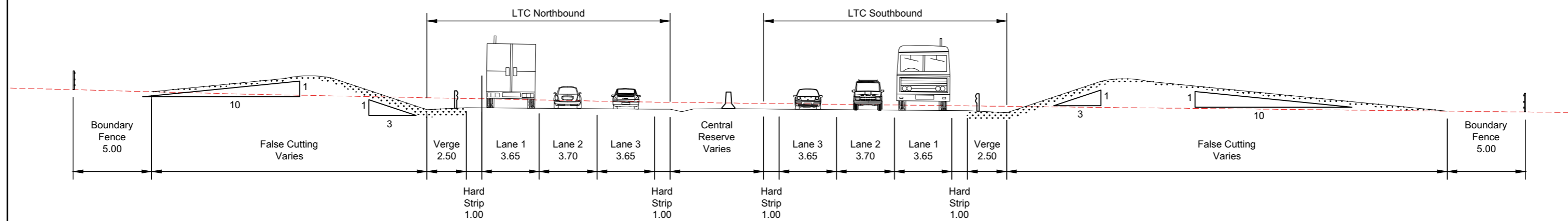


Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title
CROSS SECTION TUNNEL



TYPICAL CROSS SECTION

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

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

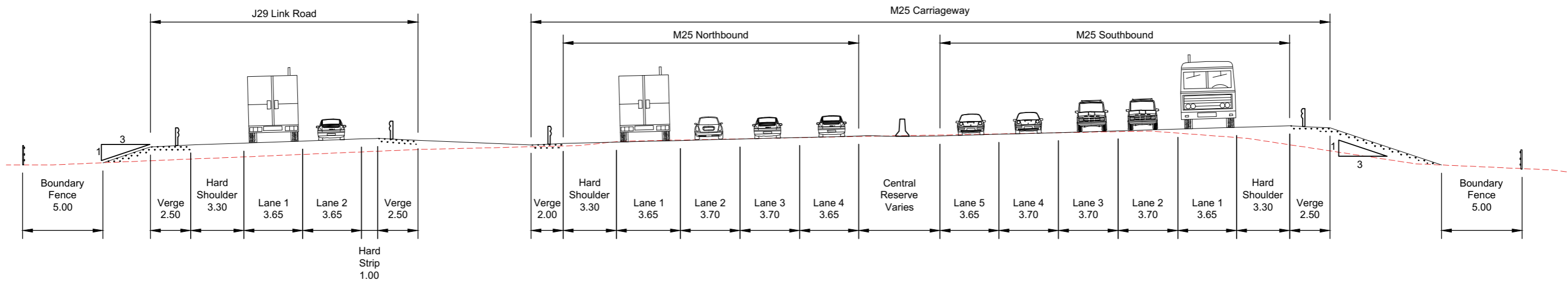
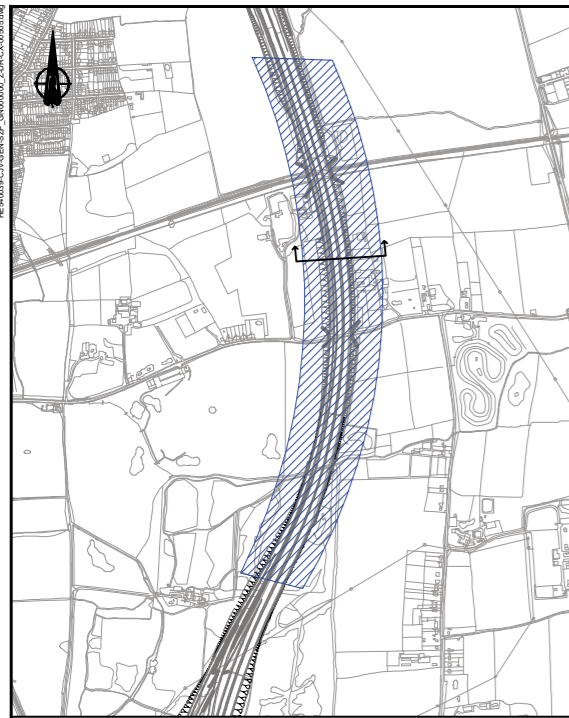


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **CROSS SECTION OCKENDON LINK**



TYPICAL CROSS SECTION AT
M25 WITH LINK ROAD

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

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

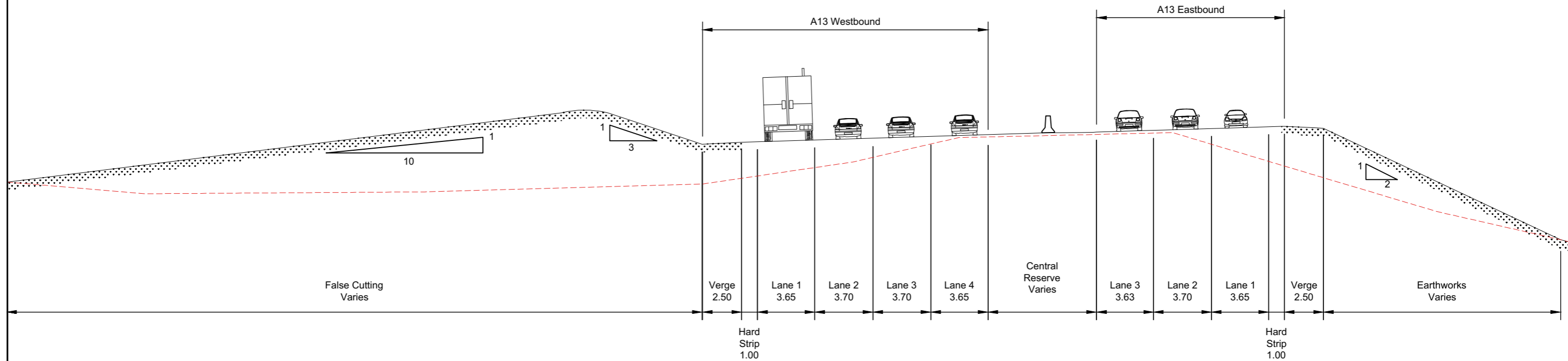
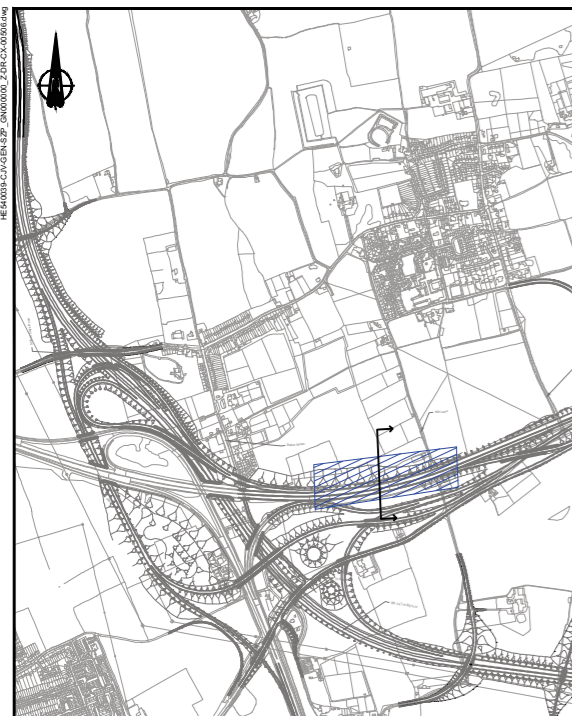


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **CROSS SECTION M25 WIDENING WITH LINK ROAD**



TYPICAL CROSS SECTION ALONG A13

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

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

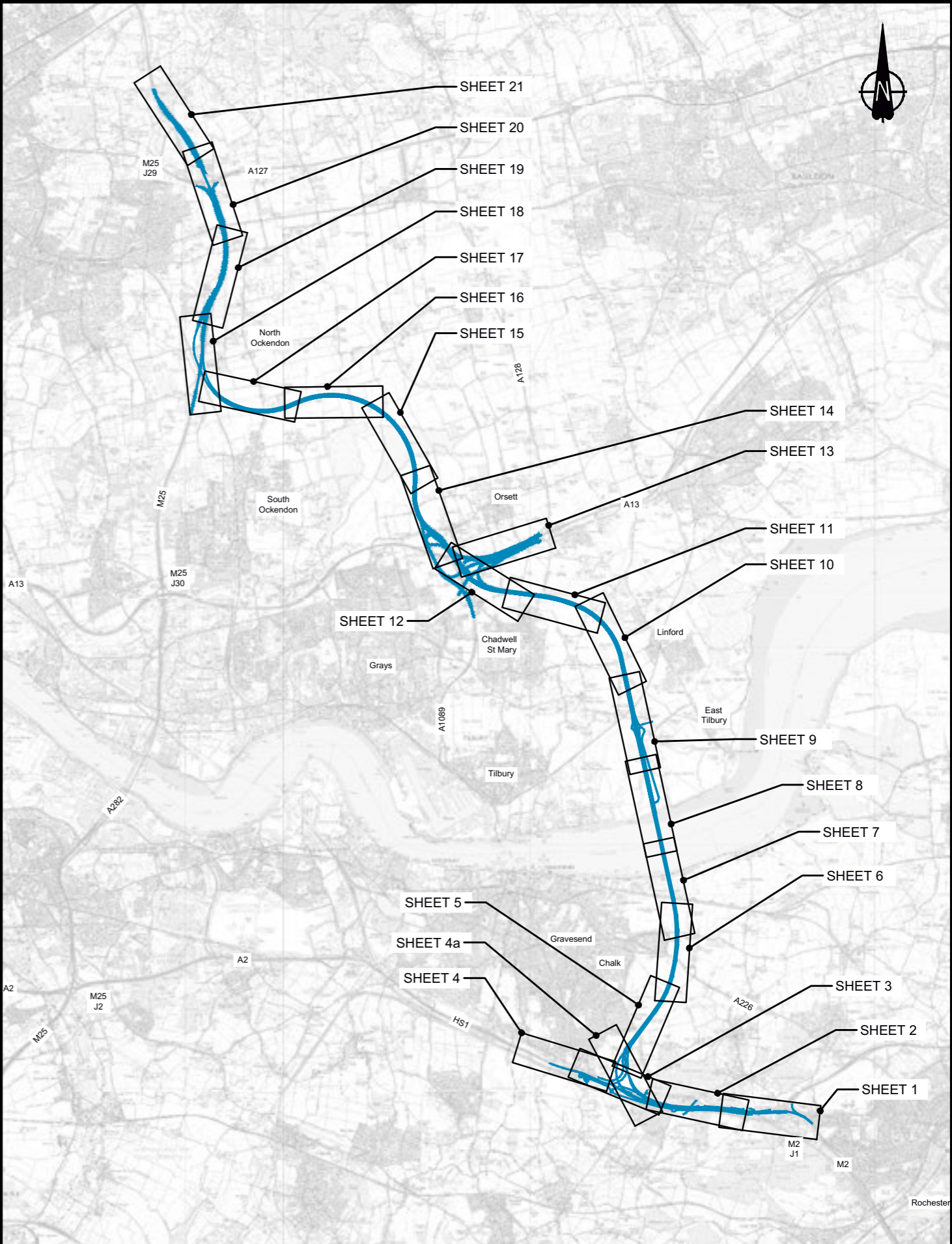


Client **highways england**

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **CROSS SECTION A13**



<p>LEGEND:</p> <p> LTC Route</p>	<p>Client</p>  <p>PROPOSALS FOR CONSULTATION</p>	<p>Project</p> <p>LOWER THAMES CROSSING STATUTORY CONSULTATION</p> <p>Drawing title</p> <p>PLAN AND PROFILE KEY PLAN</p>
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Highways England creative job number BED18 0143.

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