

Lower Thames Crossing

Pre-Consultation Scheme Assessment Report
Volume 3: Identification and Description of Shortlist Routes
Section 8: Appendices
Part 3 of 5

Appendix 3.5

Route 2 Plan and Profile Drawings

Route 2 Layout Plan

Route 2 Plan and Profile Sheet 1 of 10

Route 2 Plan and Profile Sheet 2 of 10

Route 2 Plan and Profile Sheet 3 of 10

Route 2 Bored Tunnel Plan and Profile Sheet 4 of 10

Route 2 Bored Tunnel Plan and Profile Sheet 5 of 10

Route 2 Bored Tunnel Plan and Profile Sheet 6 of 10

Route 2 Plan and Profile Sheet 7 of 10

Route 2 plan and profile Sheet 8 of 10

Route 2 Plan and Profile Sheet 9 of 10

Route 2 Plan and Profile Sheet 10 of 10

Route 2 Immersed Tunnel Plan and Profile Sheet 4 of 10

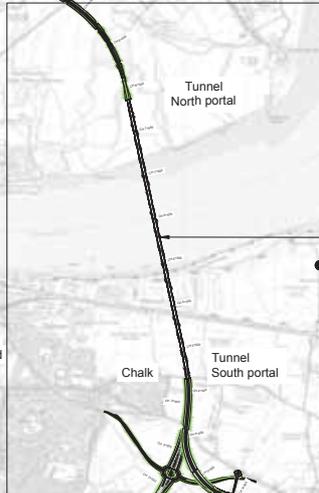
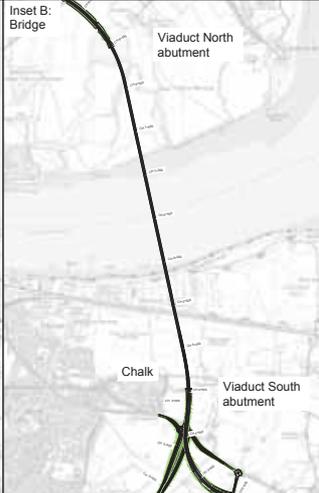
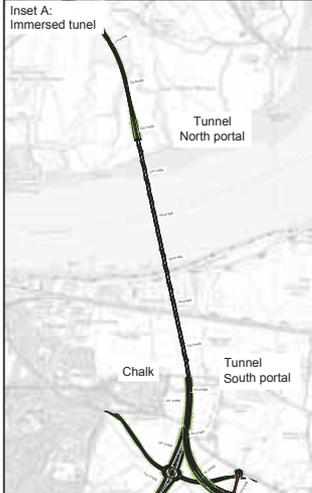
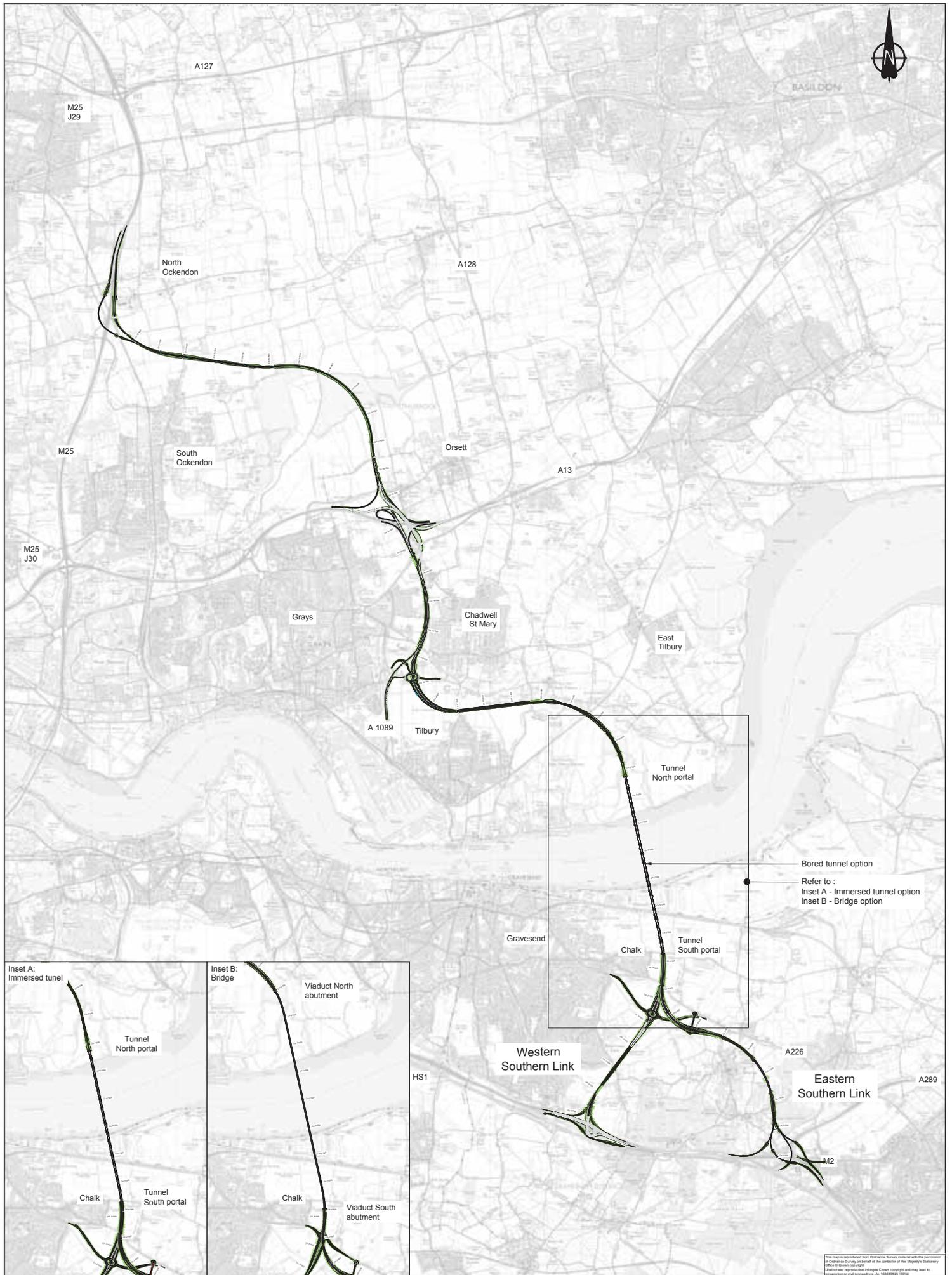
Route 2 Immersed Tunnel Plan and Profile Sheet 5 of 10

Route 2 Immersed Tunnel Plan and Profile Sheet 6 of 10

Route 2 Bridge Plan and Profile Sheet 4 of 10

Route 2 Bridge Plan and Profile Sheet 5 of 10

Route 2 bridge plan and profile Sheet 6 of 10



Bored tunnel option
Refer to :
Inset A - Immersed tunnel option
Inset B - Bridge option

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|-----|--------|-----------|---------------------|-------|---------|----------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| P01 | SS | 18-01-16 | SAR Issue | ABE | MR | GH |

ILLUSTRATIVE DESIGN

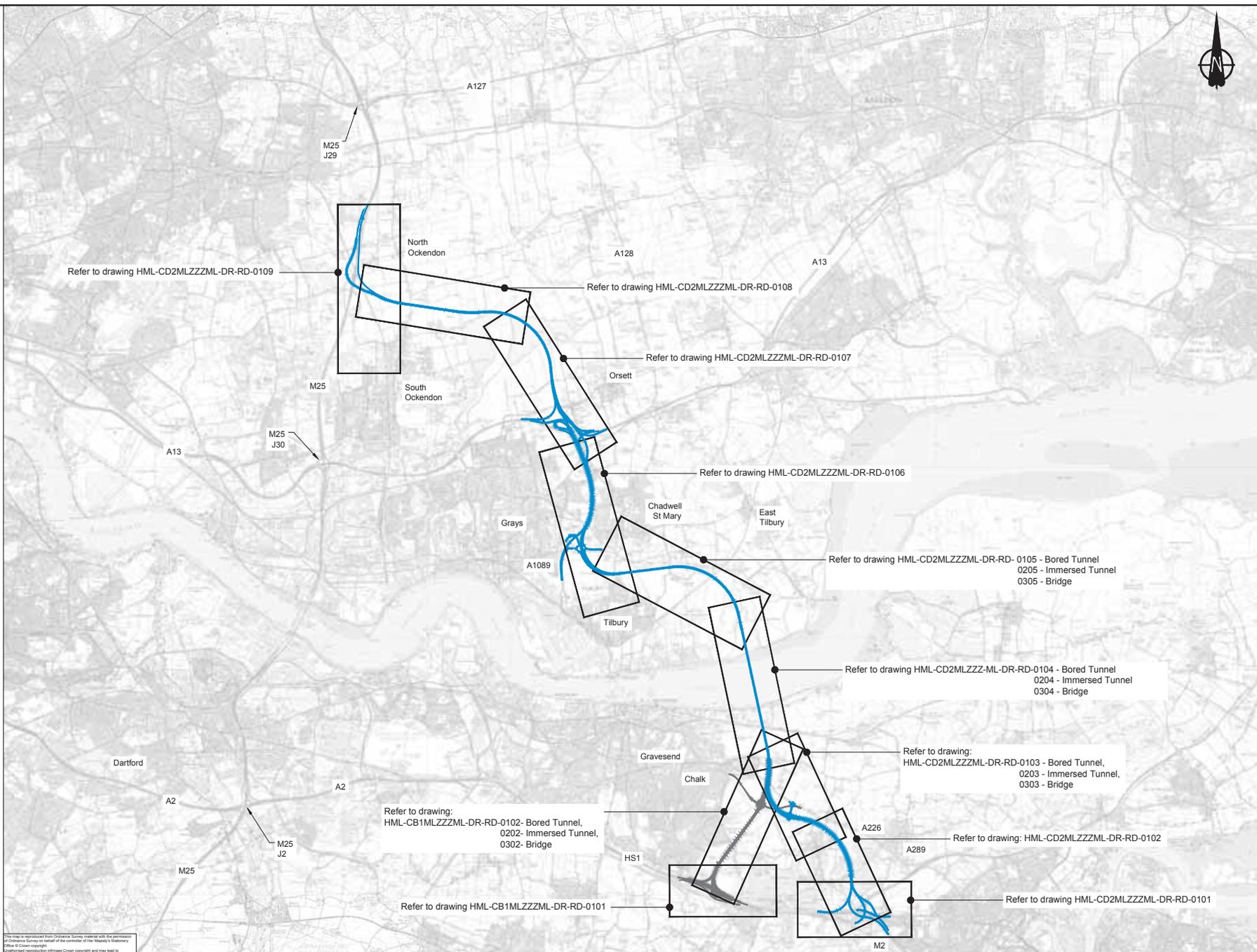
Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0DD
Tel: +44(0)1793 812478

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Layout Plan**

| | | | |
|----------------|--------------------------|---------------|-----------------|
| Status | S5 | Revision | P01 |
| Scale | NTS | Date | 20-11-15 |
| Drawn By | A Barbero Escribano | Checked By | M Robinson |
| Approved By | C Hodge | Project No. | HA - PIN 496945 |
| Originator | HHJ | Original Size | A1 |
| Drawing number | HML-C00LZZZML-DR-RD-1000 | | |



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NOTES

1. This drawing to be viewed in colour.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

LEGEND

- Route 2 (Bored tunnel, Immersed Tunnel & Bridge)
- Western Southern Link (Bored tunnel, Immersed Tunnel & Bridge)

ILLUSTRATIVE
DESIGN

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|---------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |
| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |

Client

Halcrow Hyder Joint Venture
 Burdorp Park
 Swindon, SN4 0QD
 Tel. +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Plan & Profile Sheet 1 of 10**

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodges | | |
| Project No. | HA Inv I Originator | Original Size | A1 |
| HA | HA540039 | HHJ | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0100 | | |



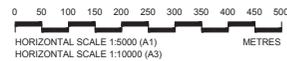
LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

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NOTES

1. For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE
DESIGN

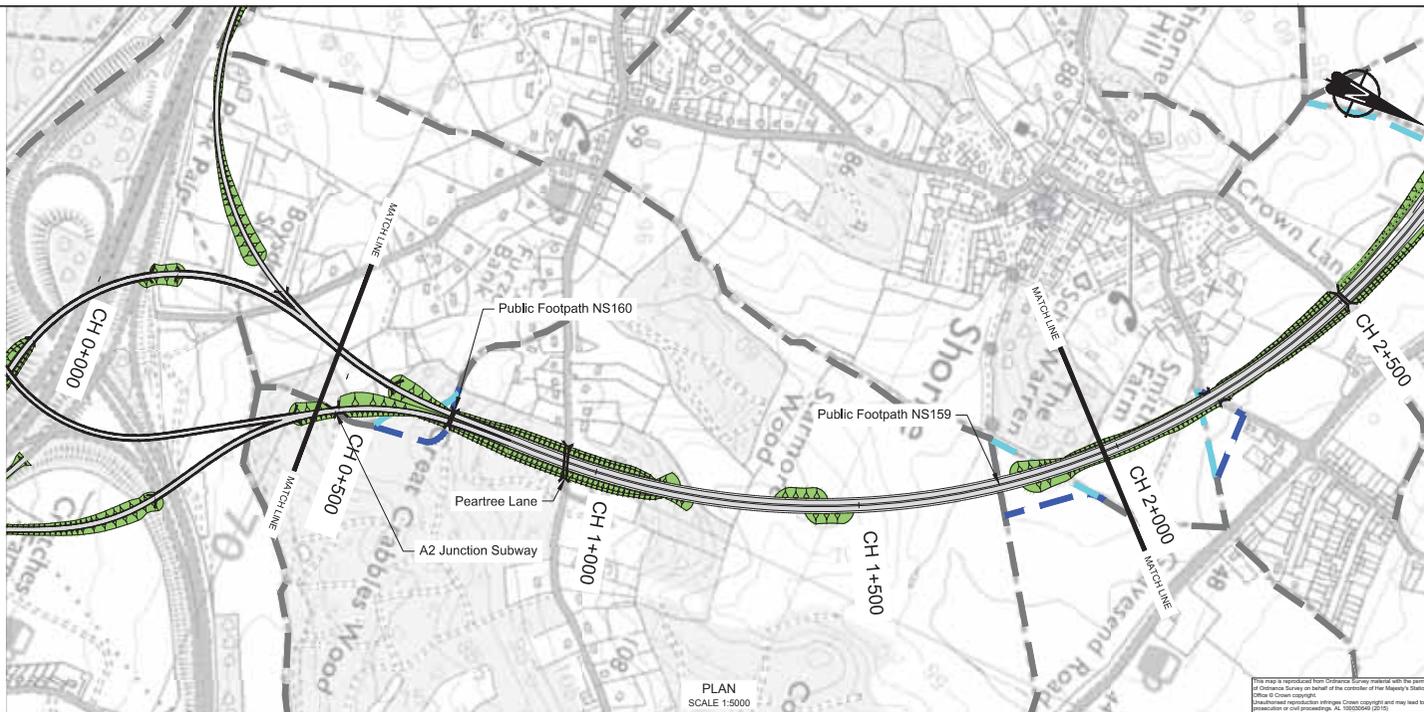
Client

Halcrow Hyder Joint Venture
 Burderop Park
 Swindon, SN4 0QD
 Tel. +44(0)1793 812479

| | |
|---------------|--------------------------------------|
| Project | LOWER THAMES CROSSING |
| Drawing title | Route 2 Plan & Profile Sheet 2 of 10 |

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | PO1 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodges | | |
| Project No. | HA PNV I Originator | Original Size | A1 |
| 496945 | HHJ | | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0101 | | |

| | | | | | | |
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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |
| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |



LEGEND - PLAN

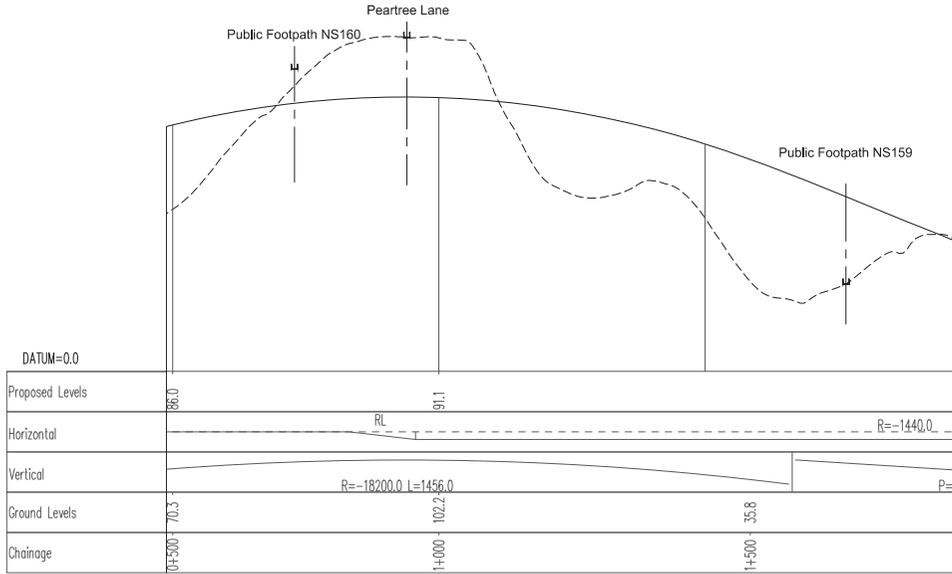
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

PLAN
SCALE 1:5000

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LEGEND - PROFILE

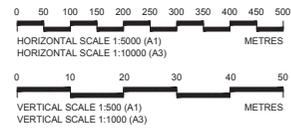
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
HV SCALE 1:5000 - 1:500

NOTES

- For Key Plan refer to drawing HHJ-HML-CD2MLZZZML-DR-RD-0100.
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
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Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Plan & Profile Sheet 3 of 10**

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PN I Originator | Original Size | A1 |
| Drawing number | HML-CD2MLZZZML-DR-RD-0102 | | |

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| PG1 | SS | 15-01-15 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



LEGEND - PLAN

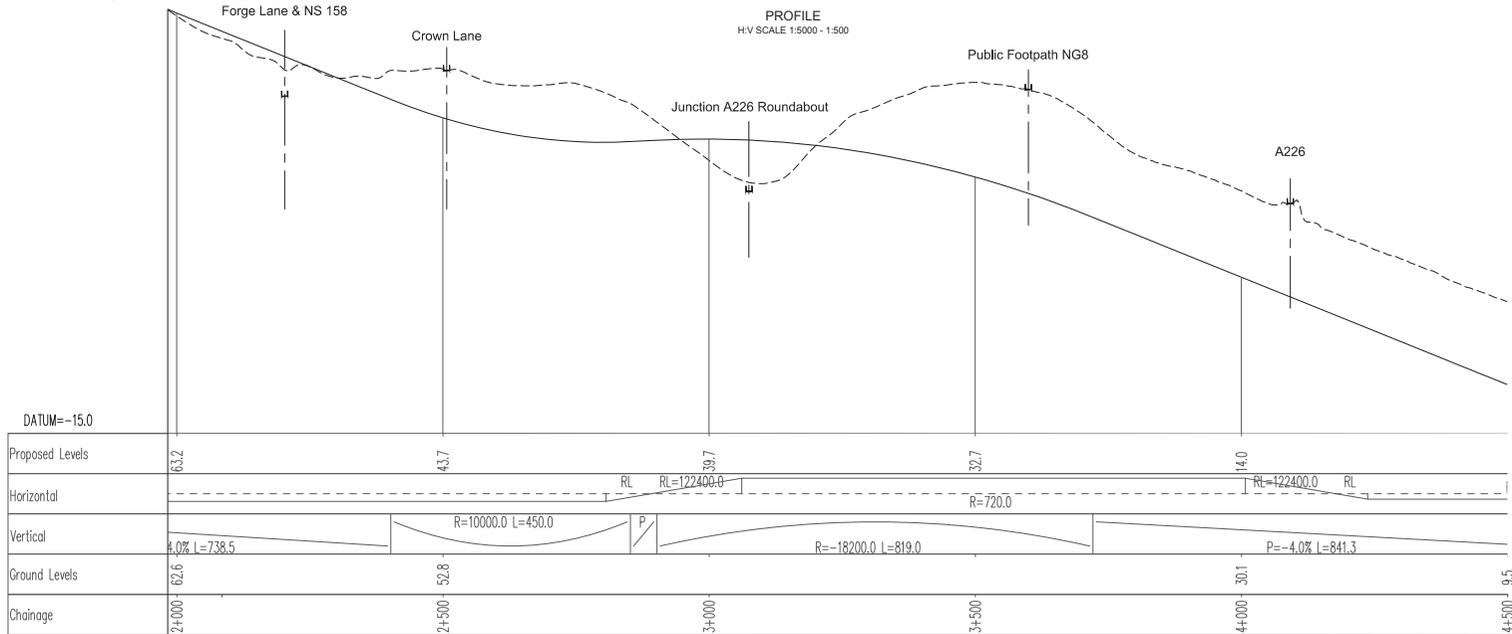
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

PLAN
SCALE 1:5000

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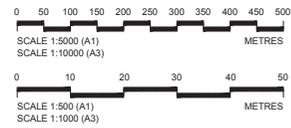
LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location



NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0102
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



**ILLUSTRATIVE
DESIGN**

Client

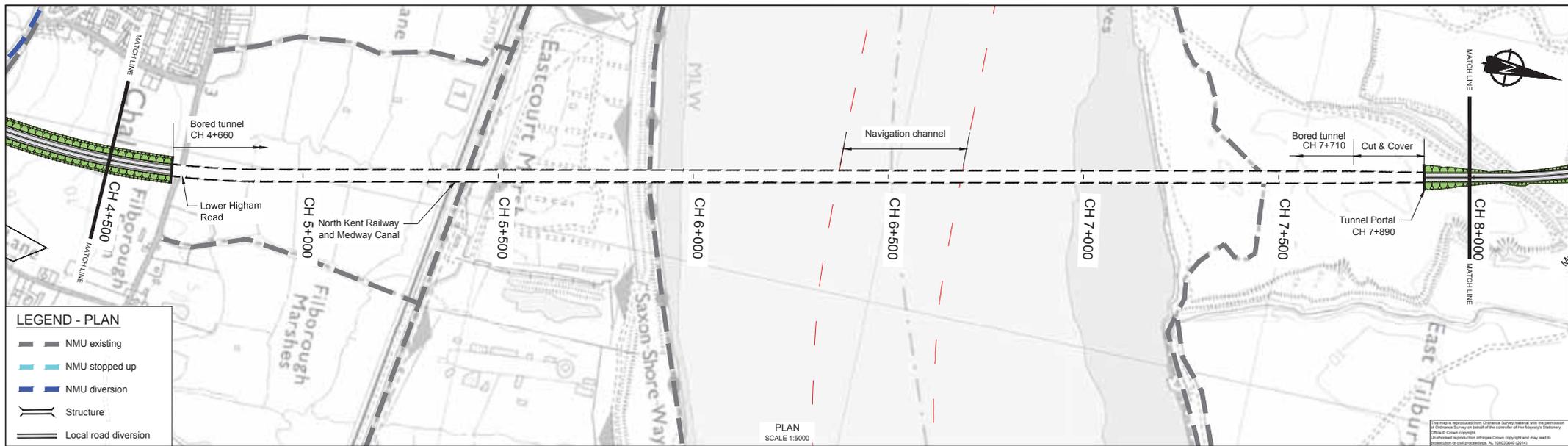
Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Bored Tunnel Plan & Profile Sheet 4 of 10**

| | | | |
|----------------|---------------------------|-------------|--------------------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robinson |
| Approved By | G Hodges | Project No. | HA_PN_I Originator |
| | HA540039 | HHJ | Original Size |
| Drawing number | HML-CD2MLZZZML-DR-RD-0103 | | |

| | | | | | | |
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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |

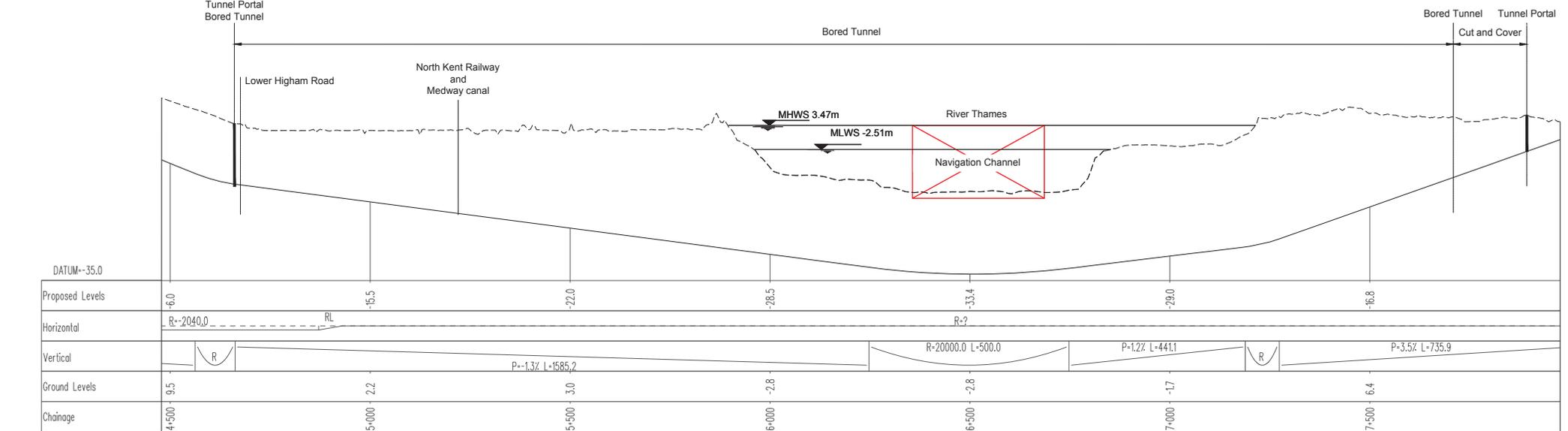


LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

LEGEND - PROFILE

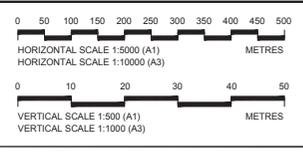
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H:V SCALE 1:5000 - 1:500

| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Apprv |
|-----|--------|-----------|---------------------|-------|---------|-------|
| P01 | SS | 18-01-18 | SAR Issue | AG | MR | GH |

- NOTES**
- For Key Plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

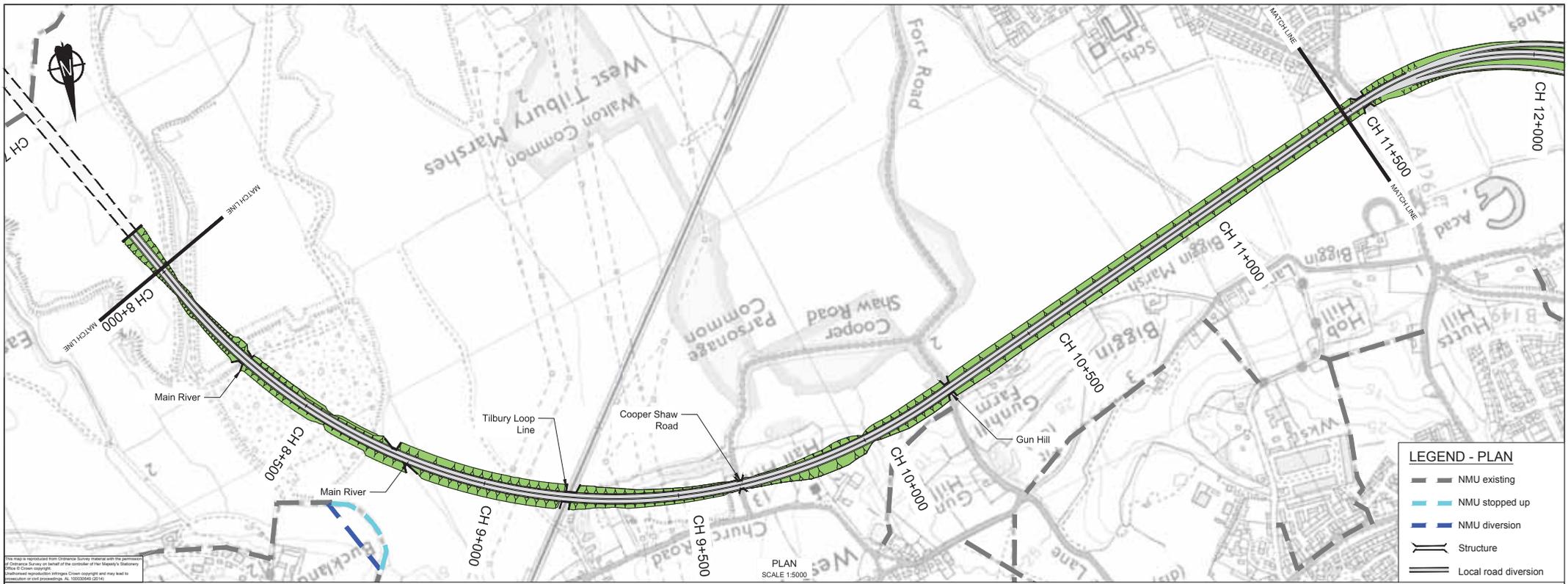
Client

Halcrow Hyder Joint Venture
Burdorop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

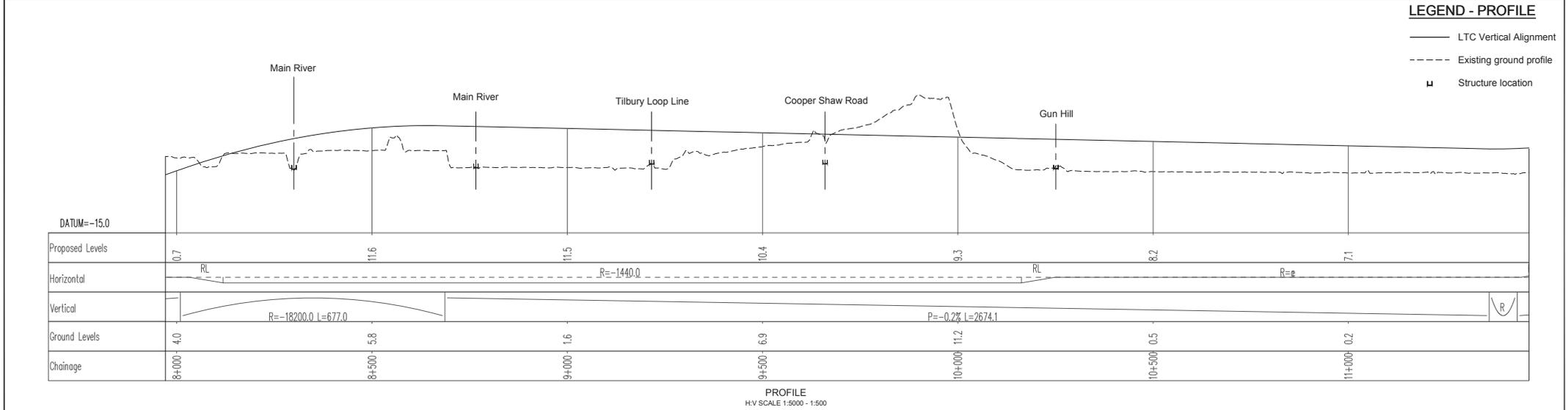
Route 2
Bored Tunnel
Plan & Profile
Sheet 5 of 10

| Status | Revision |
|---------------------------------|---------------------------|
| SS | P01 |
| Scale | Date - 06-11-15 |
| As shown | |
| Drawn By: A Garcia | |
| Checked By: M Robinson | |
| Approved By: G Hodge | |
| Project No. HA PHV I Originator | Original Size |
| HA540039 HHJ | A1 |
| Drawing number | HML-CD2MLZZZML-DR-RD-0104 |



LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

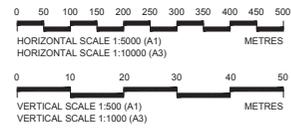


LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location

NOTES

1. For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

Client

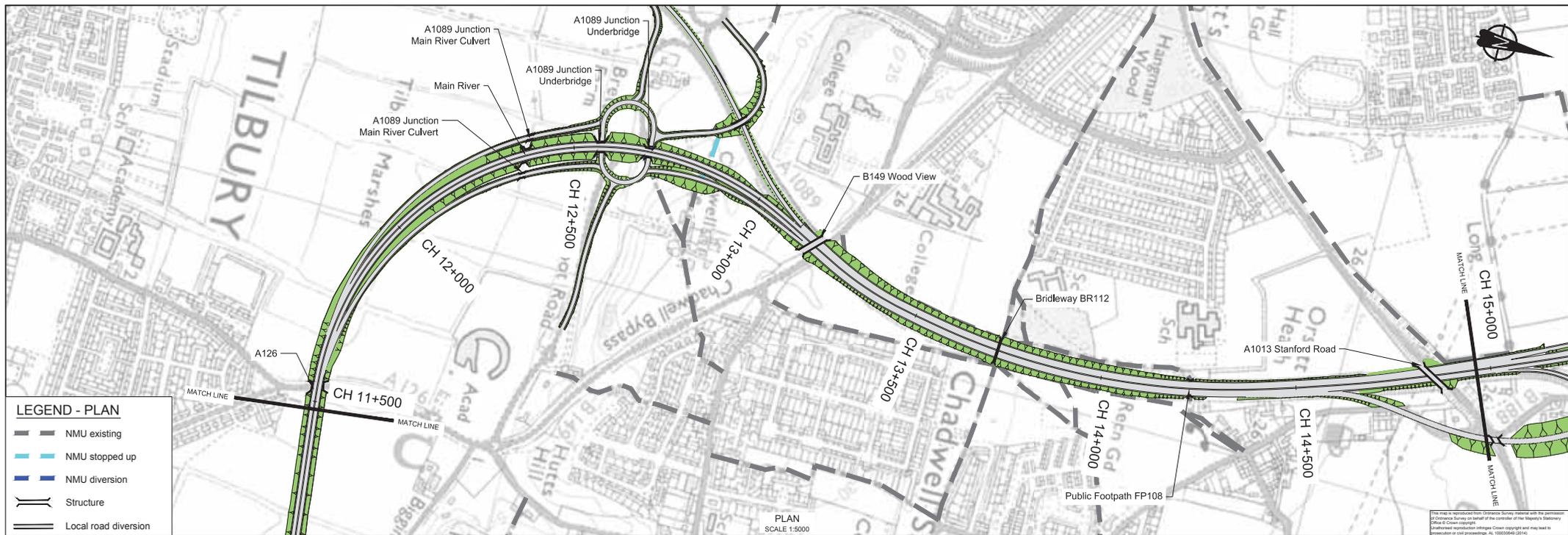
Halcrow Hyder Joint Venture
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Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Route 2 Plan & Profile Sheet 6 of 10

| | | | |
|----------------|---------------------------|-------------|--------------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robinson |
| Approved By | G Hodge | Project No. | HA_PN_I Originator |
| Original Size | A1 | HA540039 | HJU |
| Drawing number | HML-CD2MLZZZML-DR-RD-0105 | | |

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|-----|--------|-----------|---------------------|-------|---------|----------|
| PG1 | SS | 18-01-16 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

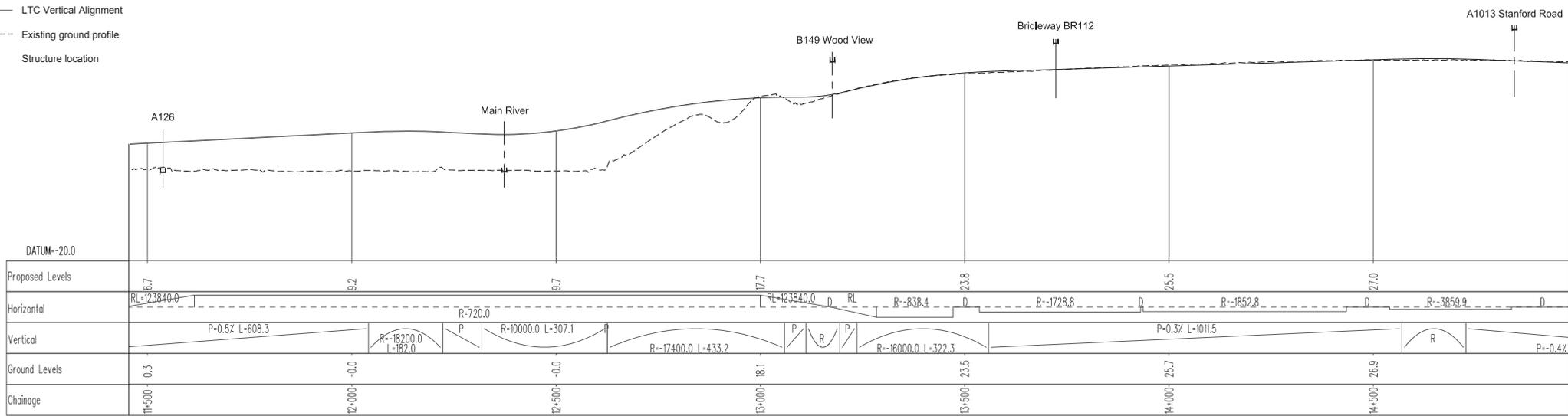


LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

LEGEND - PROFILE

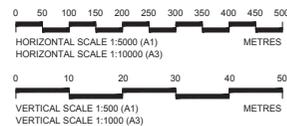
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H:V SCALE 1:5000 - 1:500

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

Client

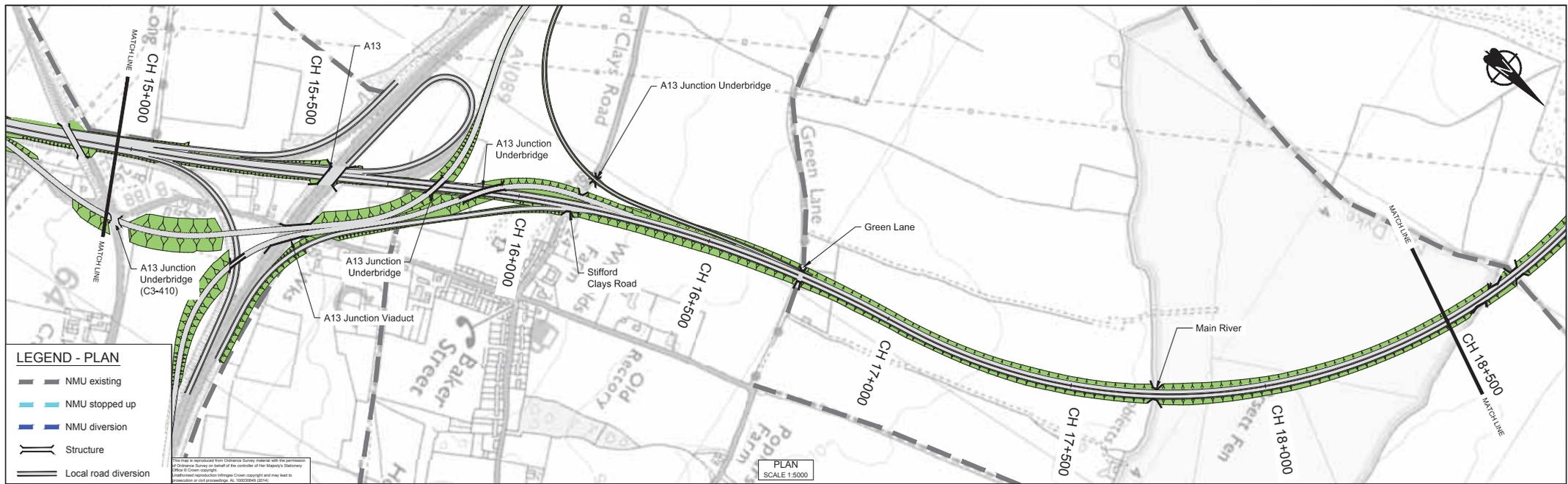
Halcrow Hyder Joint Venture
Burdur Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Plan & Profile Sheet 7 of 10**

| | | | |
|----------------|---------------------------|--------------|---------------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | E Hudson | | |
| Project No. | HA PIN 496945 | I Originator | Original Size |
| | HHJ | | A1 |
| Drawing number | HML-CD2MLZZZML-DR-RD-0106 | | |

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| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



LEGEND - PLAN

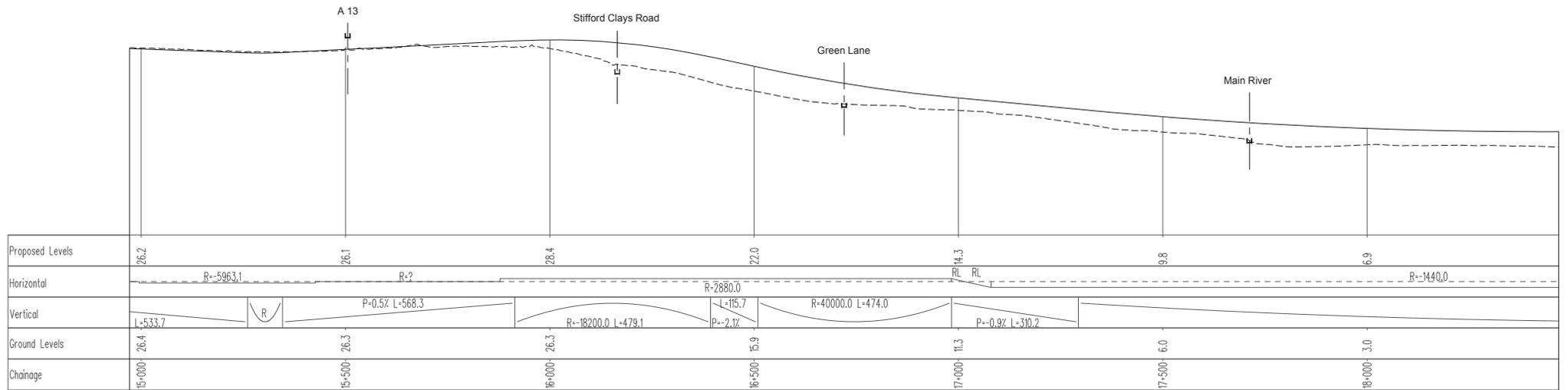
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

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PLAN
SCALE 1:5000

LEGEND - PROFILE

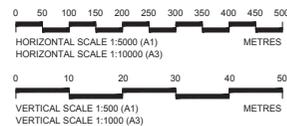
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H/V SCALE 1:5000 - 1:500

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

Halcrow Hyder Joint Venture
Burdorpe Park
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Project LOWER THAMES CROSSING

Drawing title Route 2 Plan & Profile Sheet 8 of 10

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PHV I Originator | Original Size | A1 |
| HA540039 | HHJ | | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0107 | | |

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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

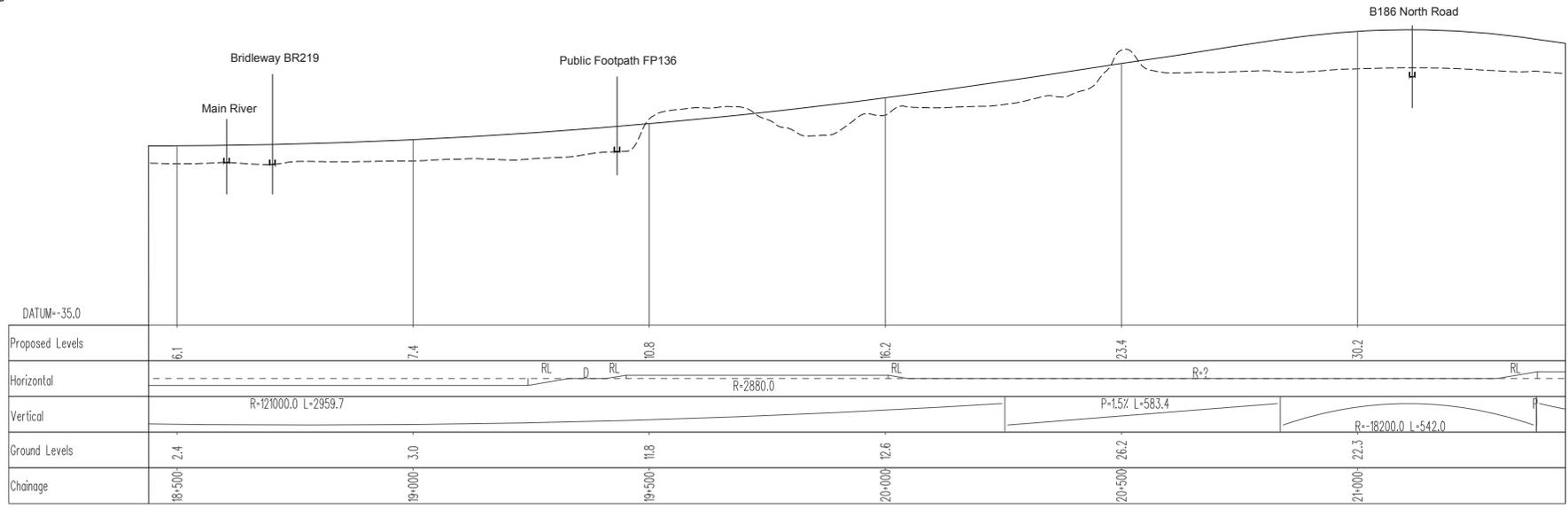


LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

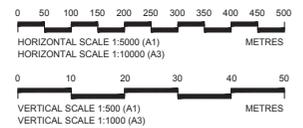
LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H:V SCALE 1:5000 - 1:500

- NOTES**
- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Plan & Profile Sheet 9 of 10**

| | | | |
|---------------------------|-----------|---------------|---------------------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robertson |
| Approved By | G Hodgson | Project No. | HA PIN I Originator |
| Drawing number | 496945 | Original Size | A1 |
| HML-CD2MLZZZML-DR-RD-0108 | | | |

| | | | | | | |
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| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



LEGEND - PLAN

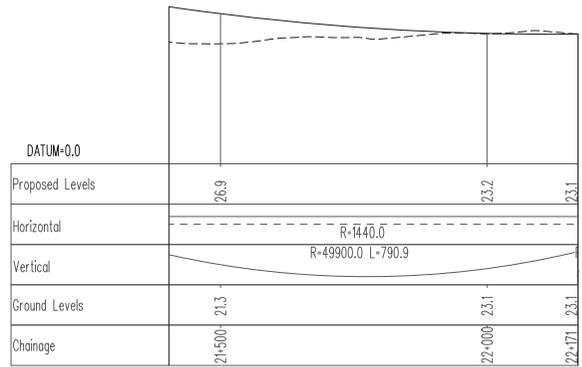
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

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PLAN
SCALE 1:5000

LEGEND - PROFILE

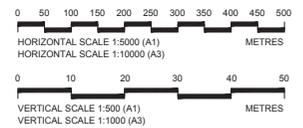
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H.V SCALE 1:5000 - 1:500

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

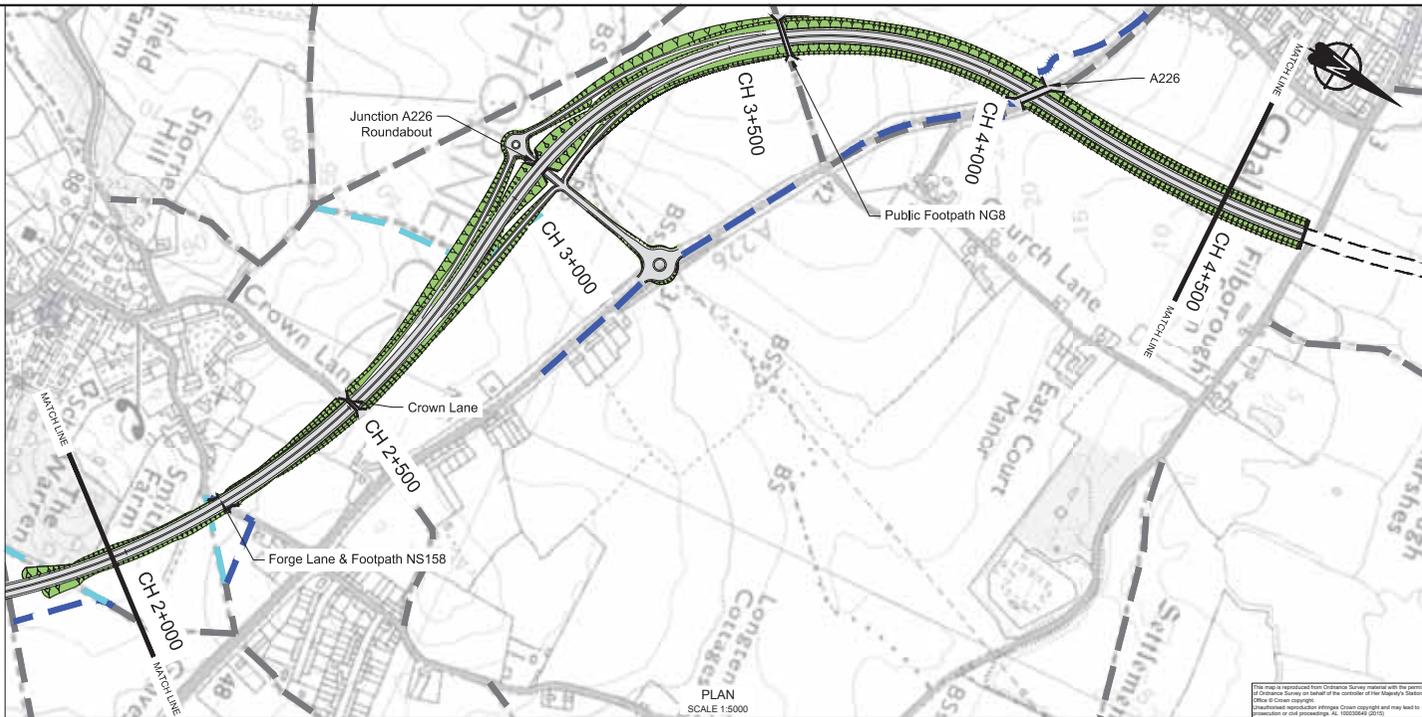
Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Route 2 Plan & Profile Sheet 10 of 10

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIN I Originator | Original Size | A1 |
| HA PIN I | HA540039 | HHJ | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0109 | | |

| | | | | | | |
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| P01 | SS | 18-01-16 | SAR Issue | AG | MR | HG |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



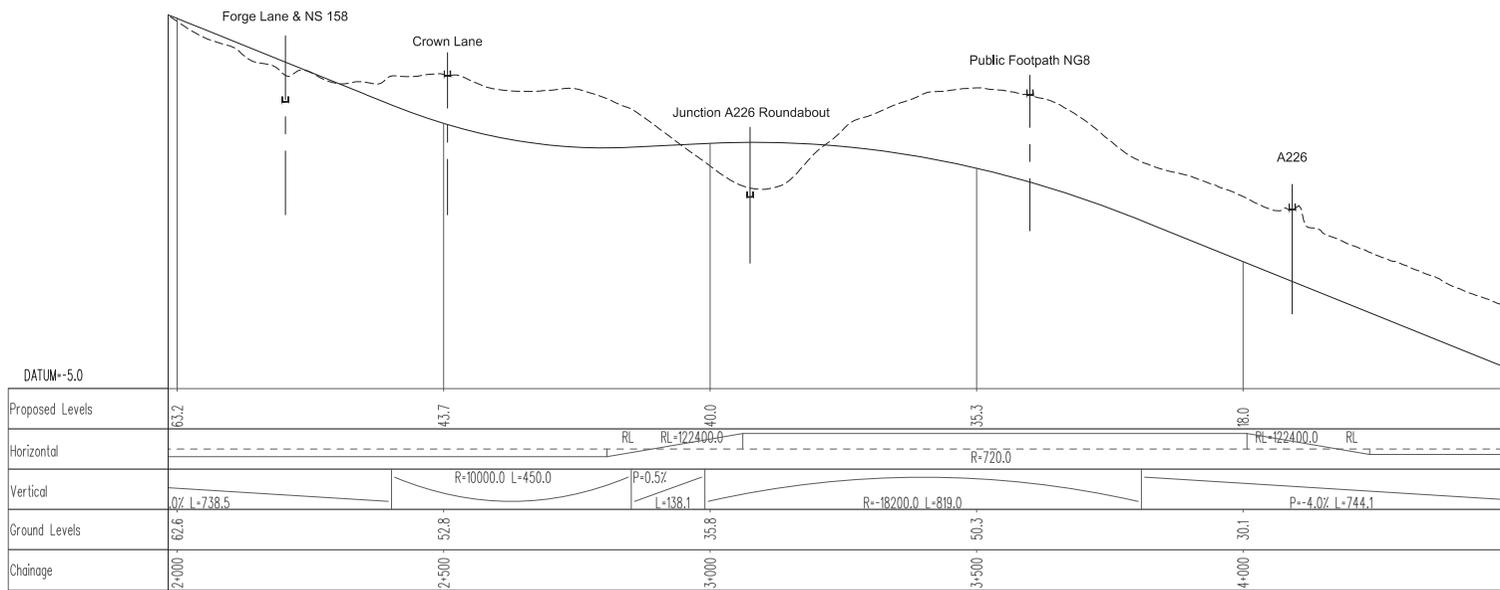
LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

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LEGEND - PROFILE

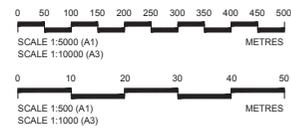
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
HV SCALE 1:5000 - 1:500

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0102
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| P01 | SS | 18-01-18 | SAR Issue | AG | MR | GH |

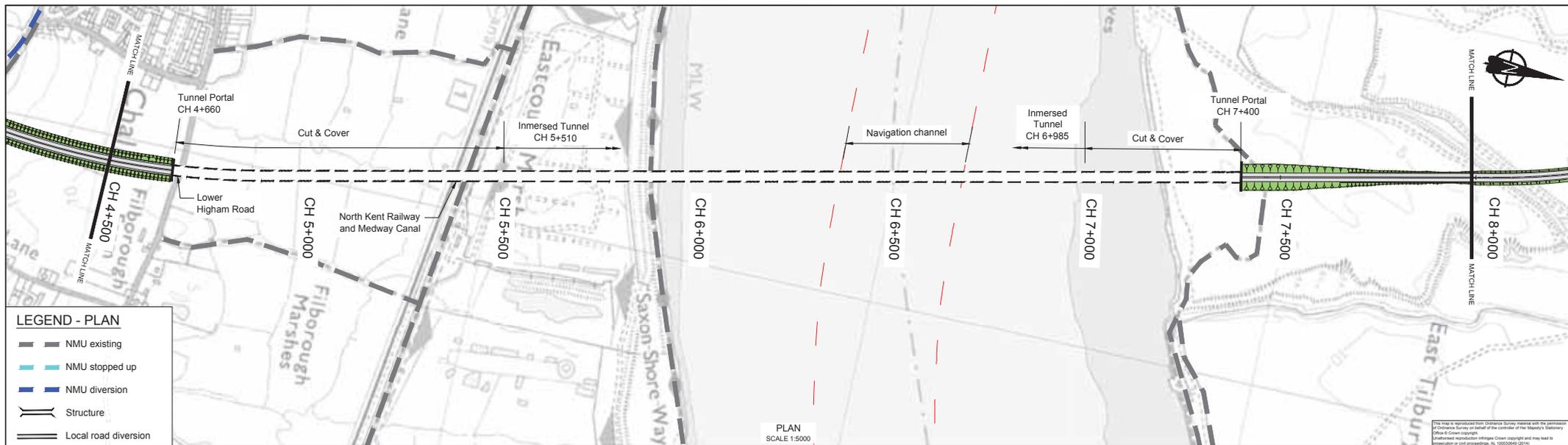
Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Route 2 Immersed Tunnel Plan & Profile Sheet 4 of 10

| | | | |
|----------------|--------------------|--------------|---------------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIV HA540039 | I Originator | Original Size |
| Drawing number | HHJ | | A1 |



LEGEND - PLAN

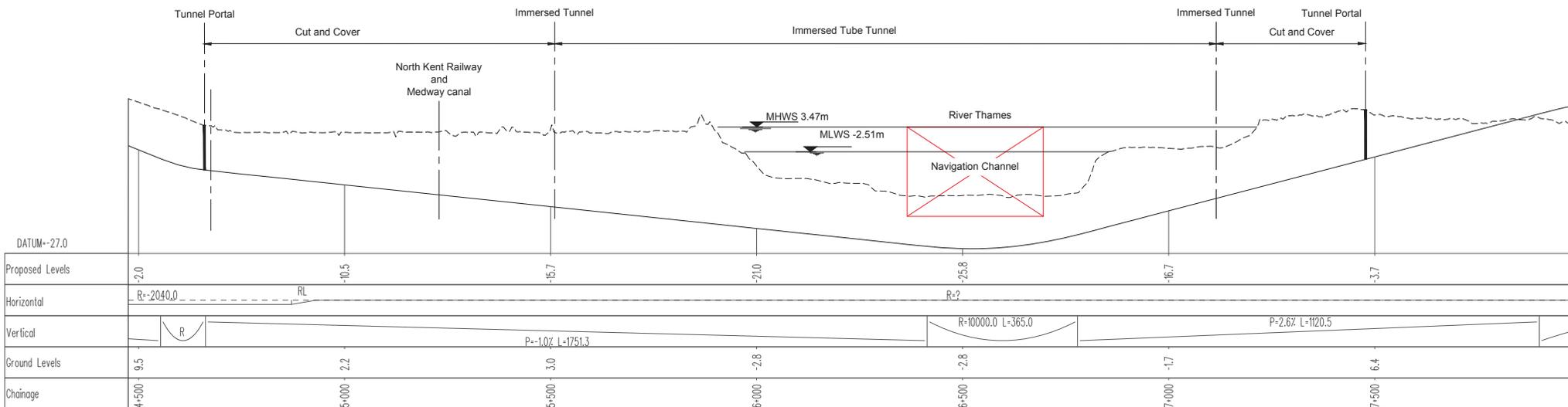
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

PLAN
SCALE 1:5000

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LEGEND - PROFILE

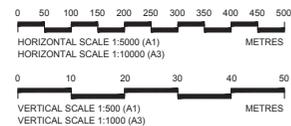
- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
HV SCALE 1:5000 - 1:500

NOTES

1. For Key Plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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DESIGN**

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| | | | | | | |

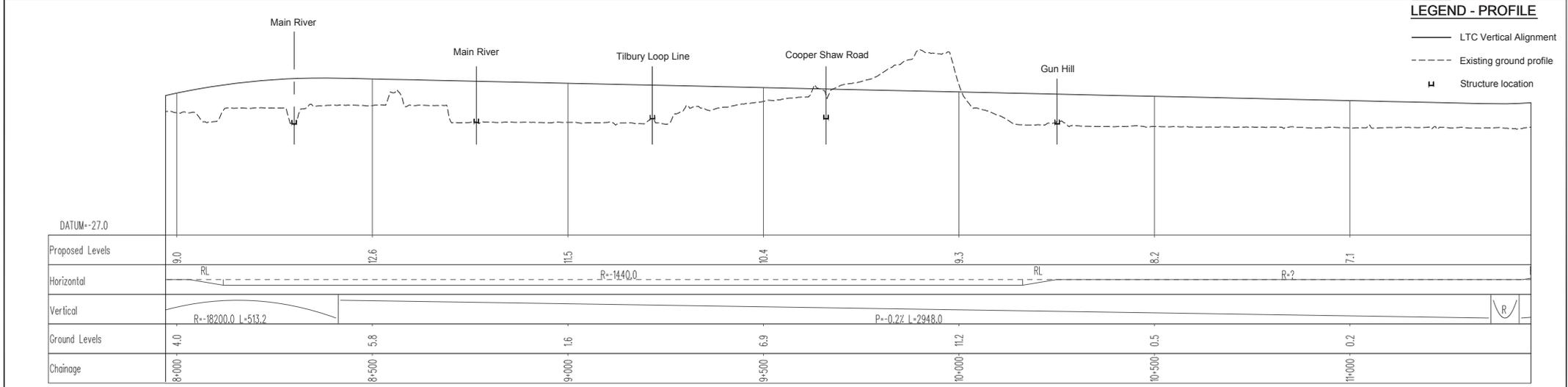
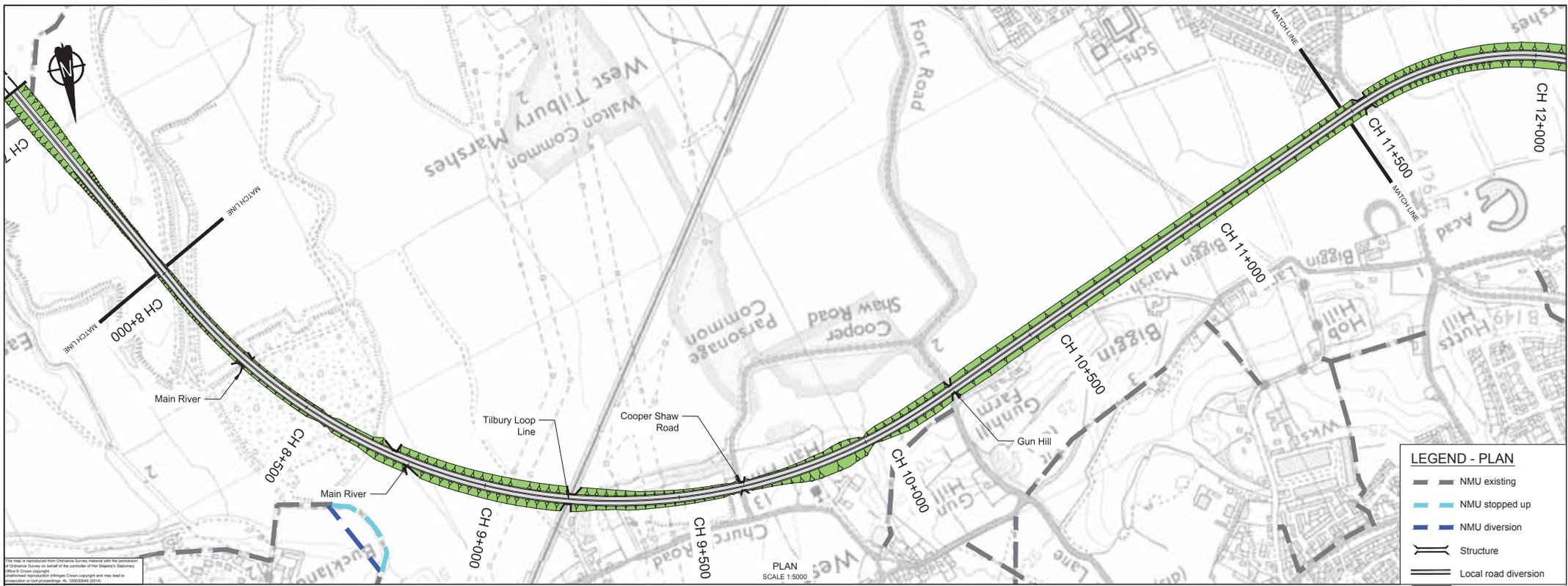
Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Route 2 Immersed Tunnel Plan & Profile Sheet 5 of 10**

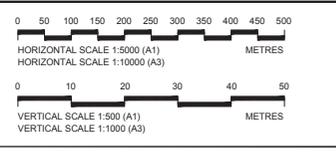
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| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PHV HA540039 | I Originator | Original Size |
| | | | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0204 | | A1 |



| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| PO1 | SS | 18-01-18 | SAR Issue | AG | MR | CH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

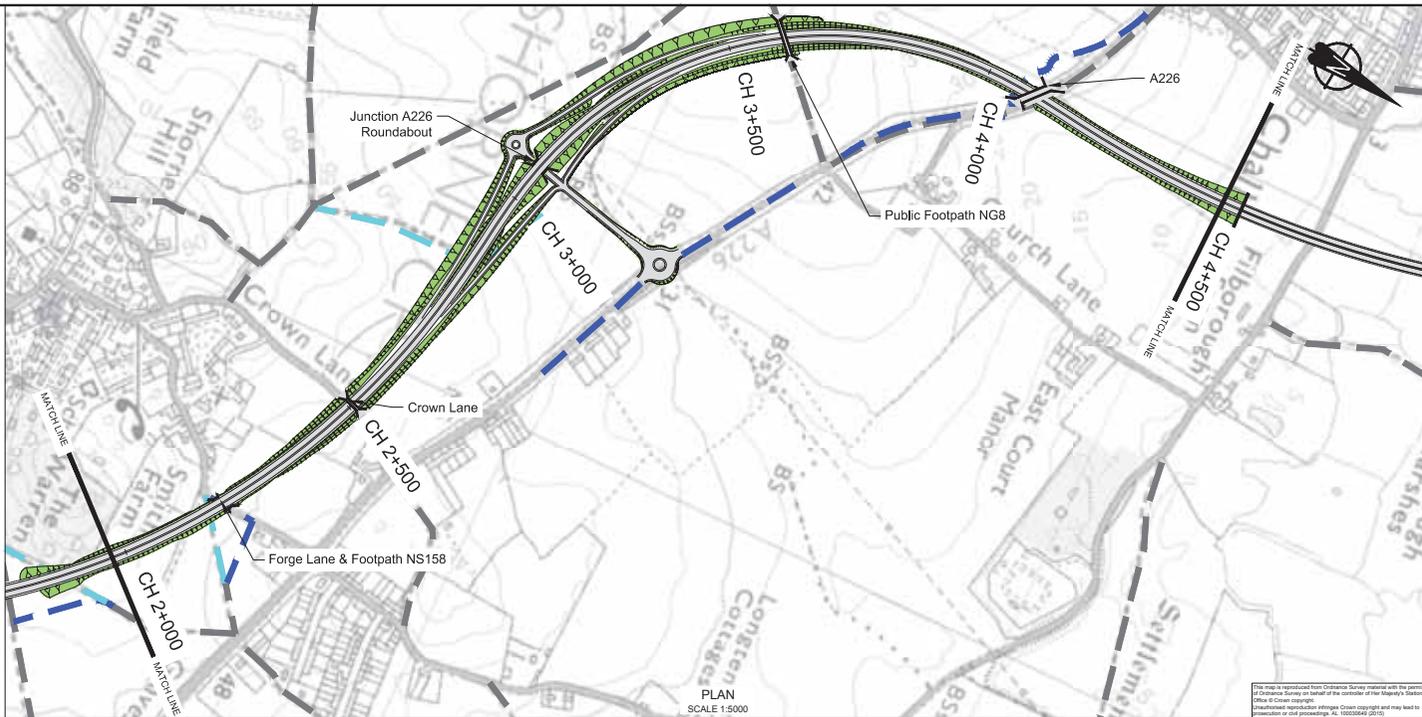
Client

Halcrow Hyder Joint Venture
Burdorop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Route 2 Immersed Tunnel
Plan & Profile
Sheet 6 of 10

| | | | |
|----------------|---------------------------|------------|----------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodgson | | |
| Project No. | HA PHV HA540039 | Originator | HHJ |
| Original Size | | | A1 |
| Drawing number | HML-CD2MLZZZML-DR-RD-0205 | | |



LEGEND - PLAN

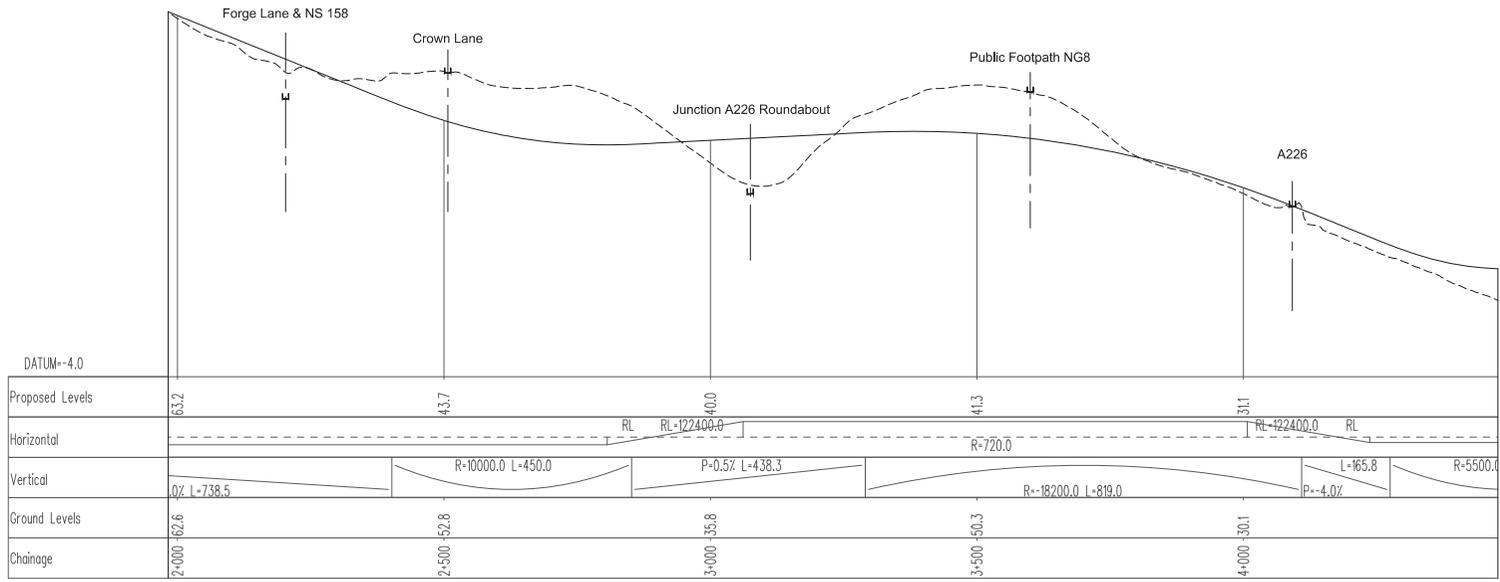
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

PLAN
SCALE 1:5000

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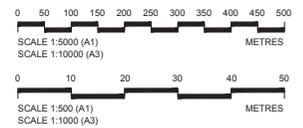
LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H/V SCALE 1:5000 - 1:500

- NOTES**
- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0102
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



**ILLUSTRATIVE
DESIGN**

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| P01 | SS | 18-01-18 | SAR Issue | AG | MR | GH |

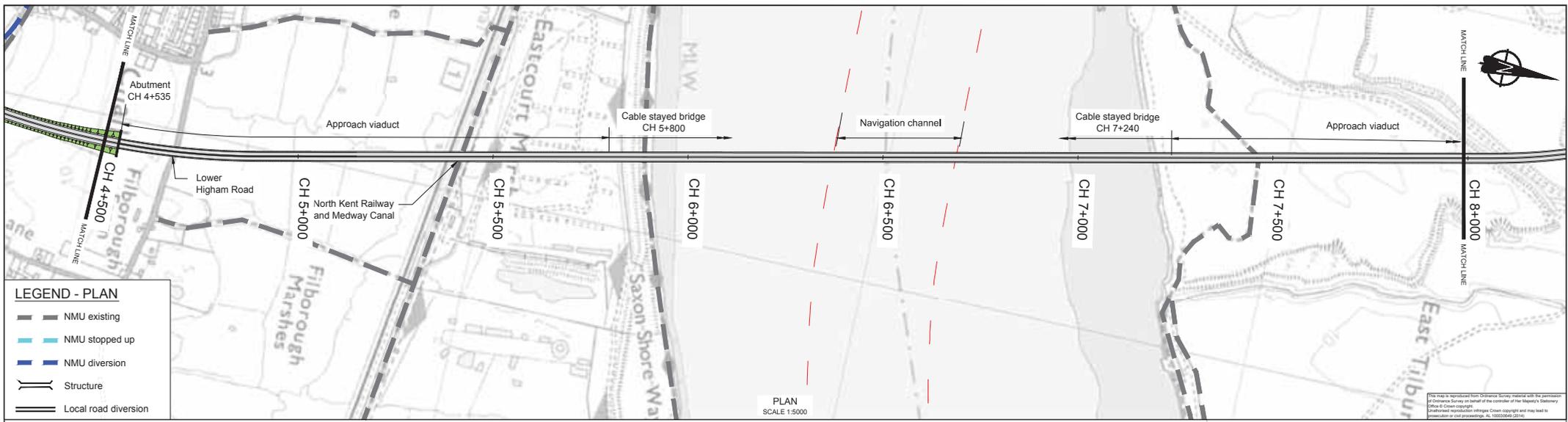
Client

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

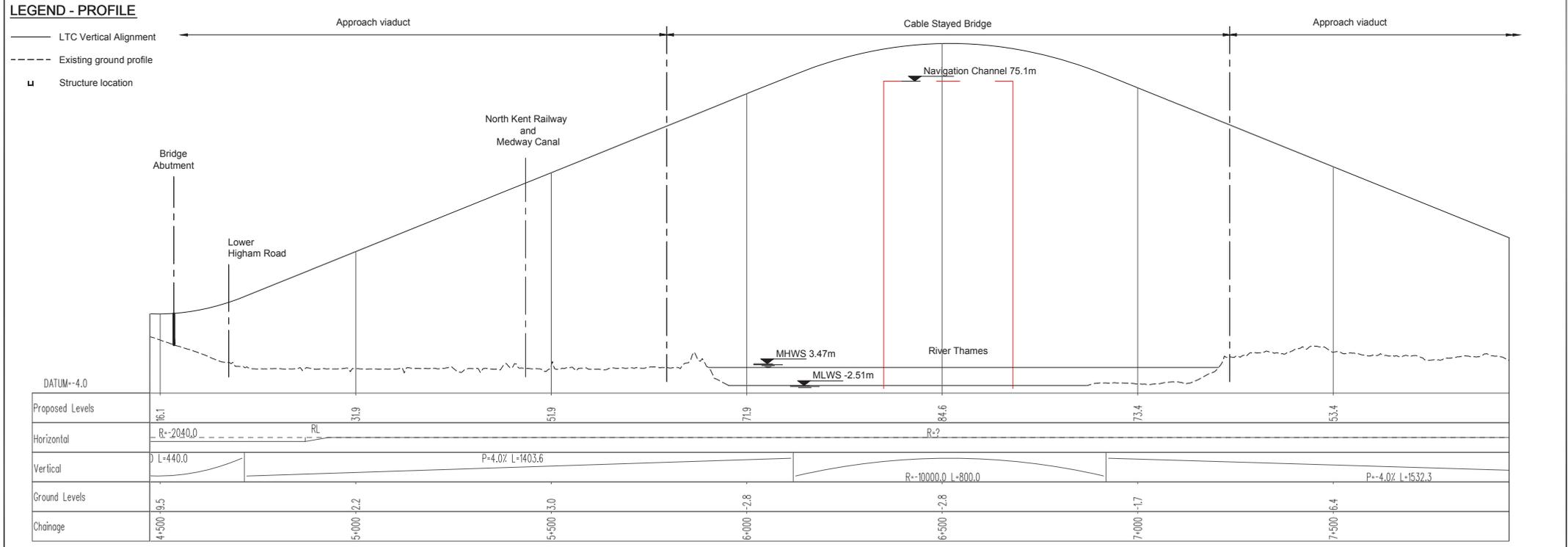
Drawing title Route 2 Bridge Plan & Profile Sheet 4 of 10

| | | | |
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| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIV | Originator | Original Size |
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| Drawing number | HML-CD2MLZZZML-DR-RD-0303 | | |



LEGEND - PLAN

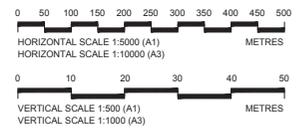
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion



LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location

- NOTES**
- For Key Plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

Client: **highways england**

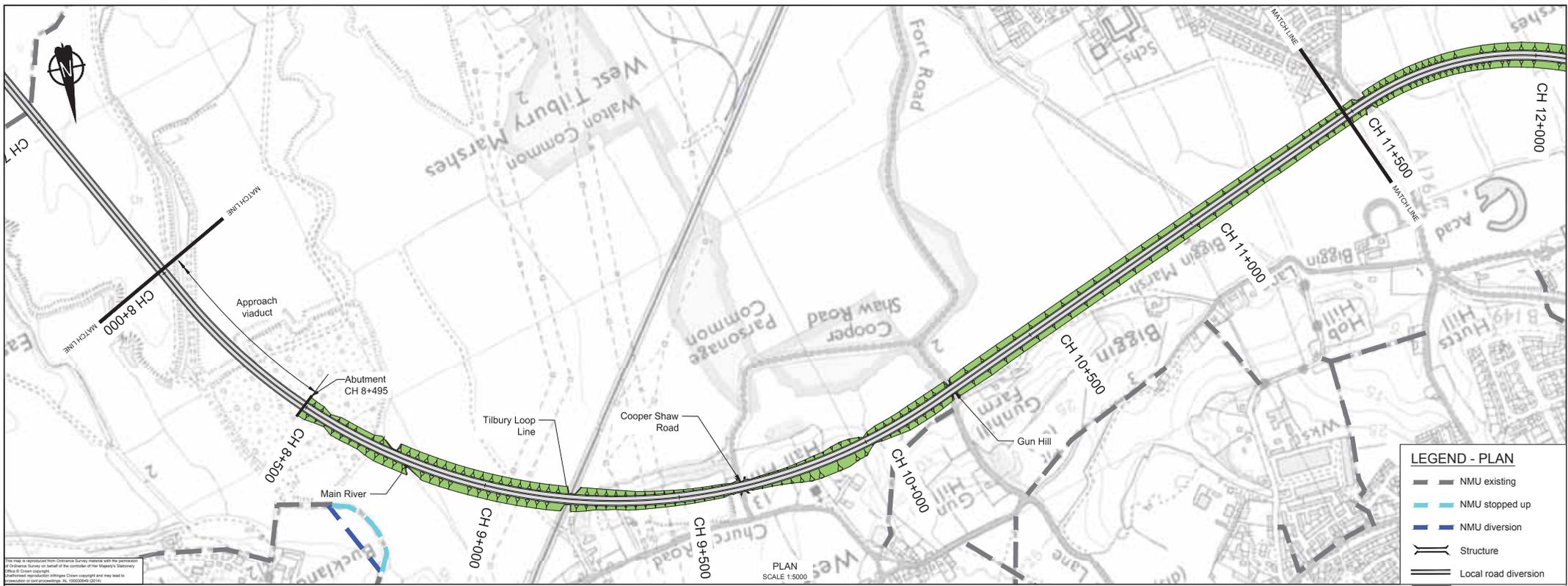
Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project: **LOWER THAMES CROSSING**

Drawing title: **Route 2 Bridge Plan & Profile Sheet 5 of 10**

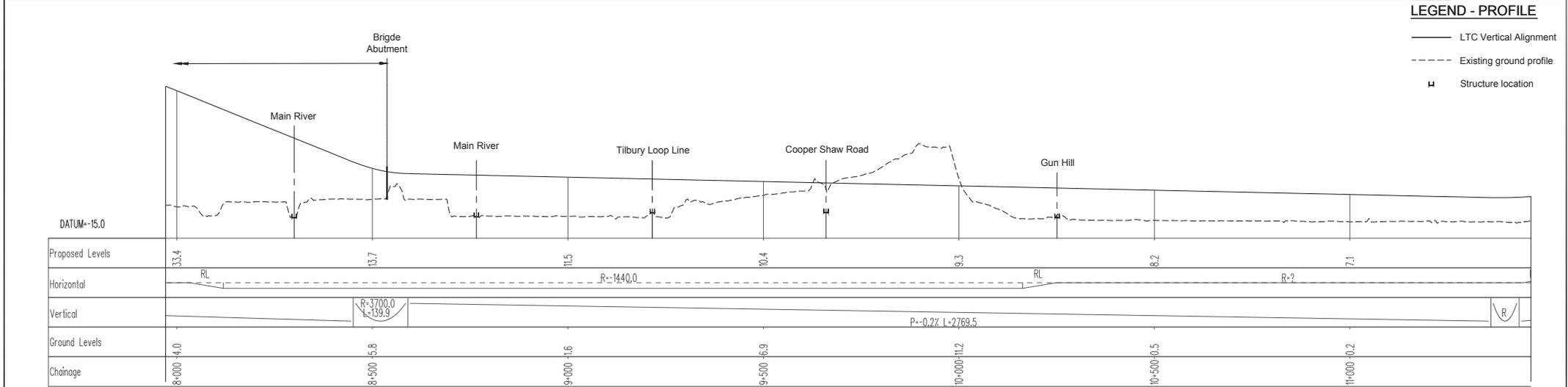
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| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PHV I Originator | Original Size | A1 |
| HA540039 | HHJ | | |
| Drawing number | HML-CD2MLZZZML-DR-RD-0304 | | |

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|-----|--------|-----------|---------------------|-------|---------|----------|
| P01 | SS | 18-01-16 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



LEGEND - PLAN

- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion



LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location

NOTES

- For key plan refer to drawing HML-CD2MLZZZML-DR-RD-0100
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| P01 | SS | 18-01-18 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

ILLUSTRATIVE DESIGN

HORIZONTAL SCALE 1:5000 (A1)
HORIZONTAL SCALE 1:10000 (A3)

VERTICAL SCALE 1:500 (A1)
VERTICAL SCALE 1:1000 (A3)

Client

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Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

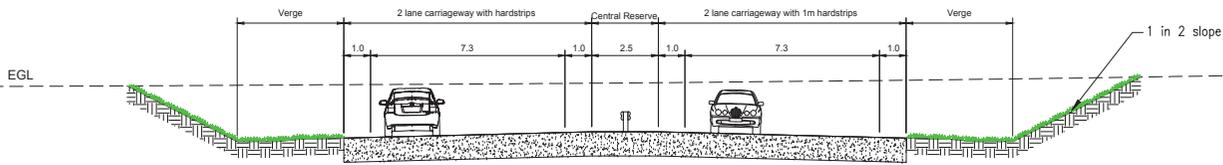
Drawing title Route 2 Bridge Plan & Profile Sheet 6 of 10

| | | | |
|----------------|---------------------------|---------------|------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robinson |
| Approved By | G Hodge | Project No. | HA PHV I |
| Originator | HHJ | Original Size | A1 |
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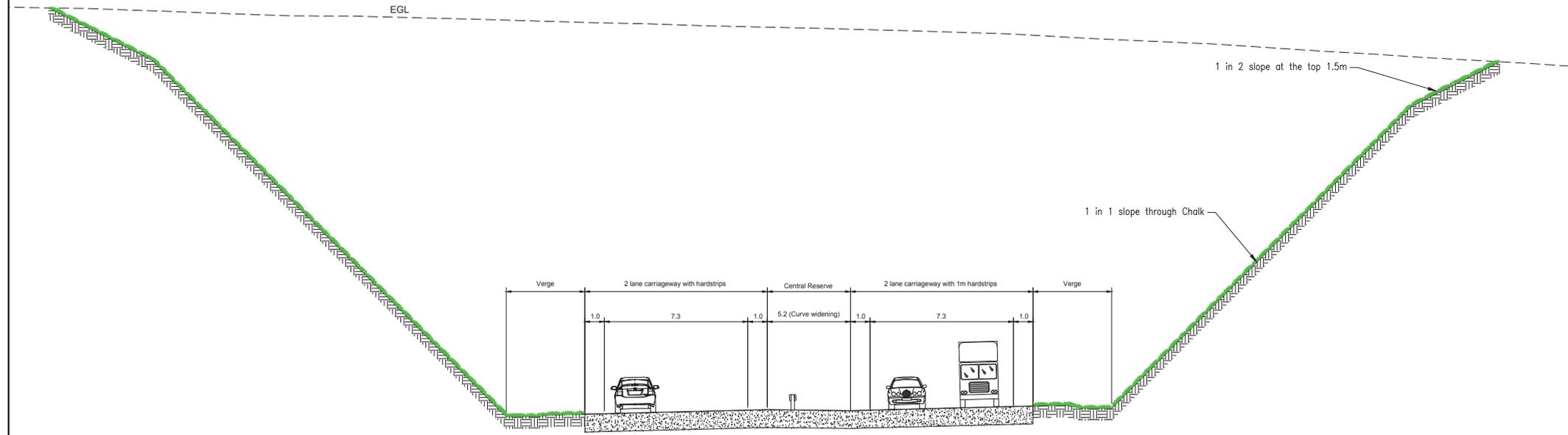
Appendix 3.6

Routes 2, 3 and 4 Typical Cross Sections

Routes 2 to 4 Typical Cross Section Sheet 1 of 4
Routes 2 to 4 Typical Cross Section Sheet 2 of 4
Routes 2 to 4 Typical Cross Section Sheet 3 of 4
Routes 2 to 4 Typical Cross Section Sheet 4 of 4



Typical section
South of river in shallow cut

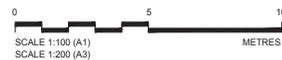


Typical section south of river
Tunnel approach through chalk

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NOTES

1. All distances measured in metres.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client



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Tel: +44(0)1793 812479

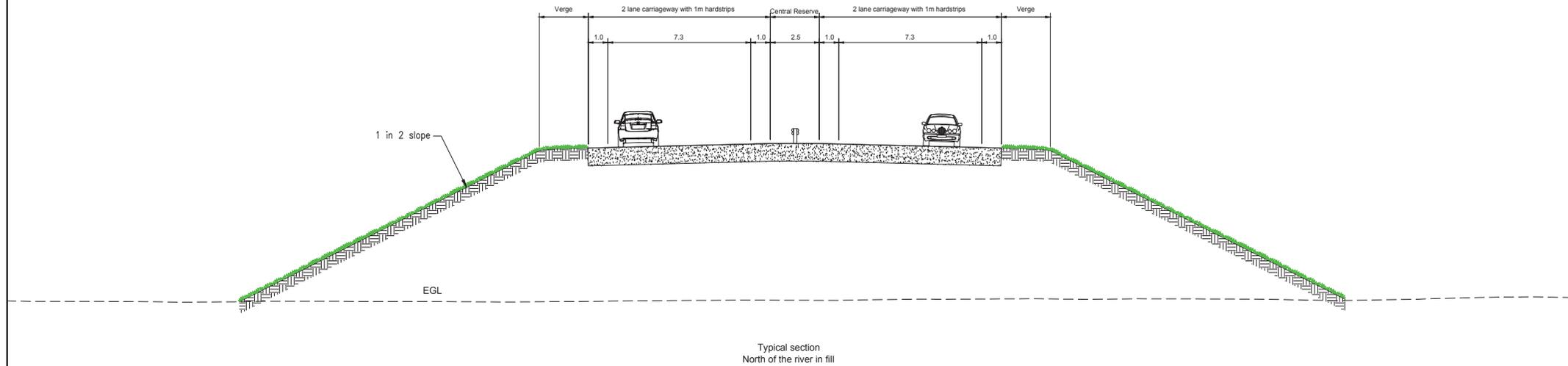
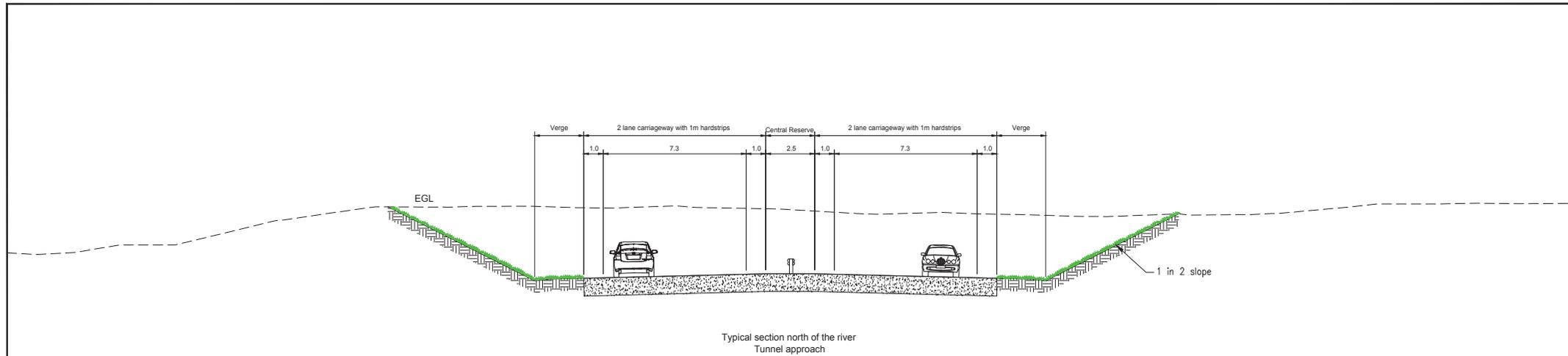



Project **LOWER THAMES CROSSING**

Drawing title **Routes 2 to 4 Typical Cross Section Sheet 1 of 4**

| | | | |
|----------------|---------------------------|------------|---------------|
| Status | SS | Revision | P01 |
| Scale | 1:100 | Date | 24-07-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodges | | |
| Project No. | HA PHV | Originator | Original Size |
| | HA540039 | HHJ | A1 |
| Drawing number | HML-CZZMLZZZML-DR-RD-0010 | | |

| | | | | | | |
|-----|--------|------------|---------------------|-------|---------|----------|
| PP1 | SS | 18/01/2016 | SAR ISSUE | AS | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



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NOTES

1. All distances measured in metres.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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DESIGN**

Client

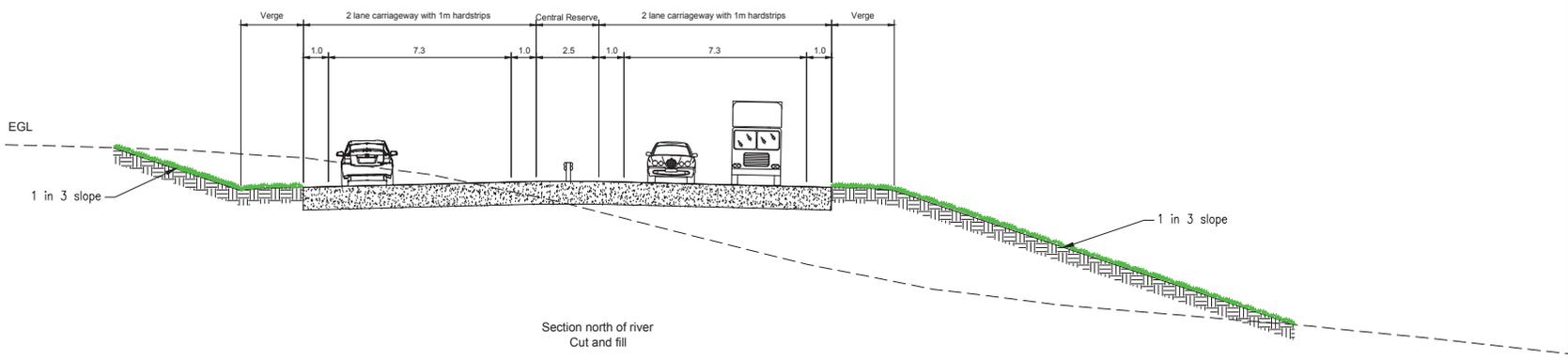
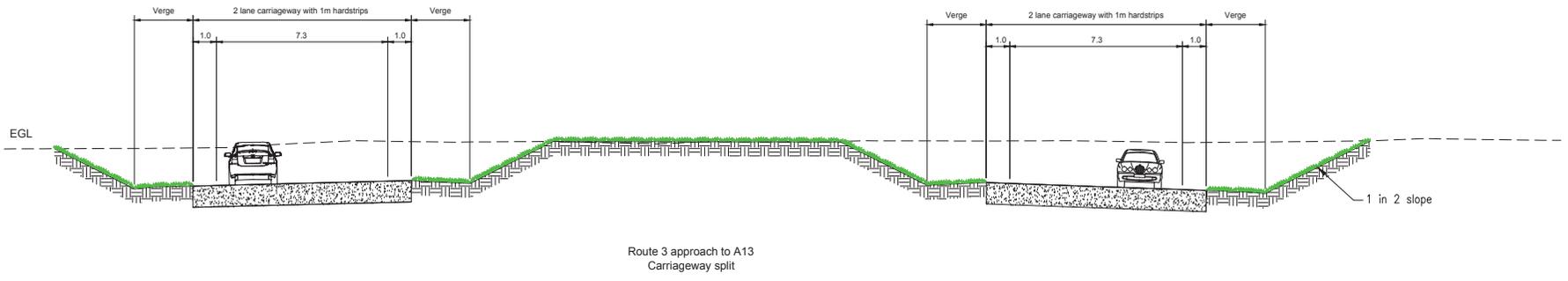
Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Routes 2 to 4 Typical Cross Section Sheet 2 of 4

| | | | |
|----------------|---------------------------|------------|---------------|
| Status | SS | Revision | P01 |
| Scale | 1:100 | Date | 24-07-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
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| | | HHJ | A1 |
| Drawing number | HML-CZZMLZZZML-DR-RD-0011 | | |

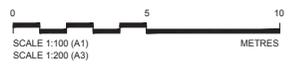
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| PP1 | SS | 18/01/2016 | BAR ISSUE | AS | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



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NOTES

1. All distances measured in metres.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

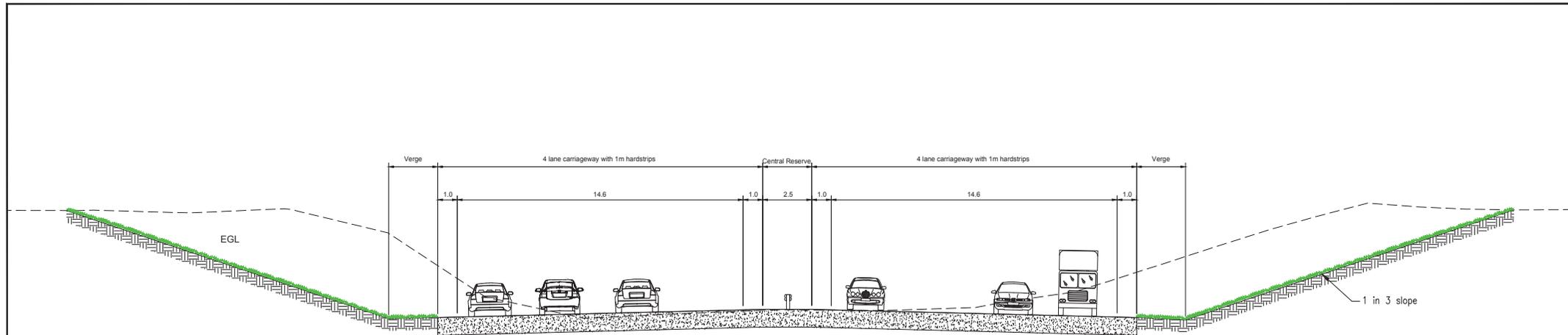
Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

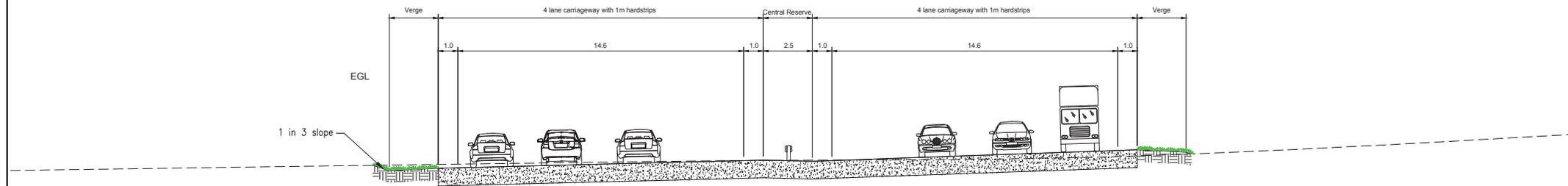
Drawing title Routes 2 to 4 Typical Cross Section Sheet 3 of 4

| | | | |
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| Status | SS | Revision | P01 |
| Scale | 1:100 | Date | 24-07-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodgson | | |
| Project No. | HA PIN | Originator | Original Size |
| | HA540039 | HHJ | A1 |
| Drawing number | HML-CZZMLZZZML-DR-RD-0012 | | |

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|-----|--------|------------|---------------------|-------|---------|----------|
| PP1 | SS | 18/01/2016 | SAR ISSUE | AS | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



Route 2 approach to A1089



Route 4 approach to A127

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NOTES

1. All distances measured in metres.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

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 Burderop Park
 Swindon, SN4 0QD
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Project **LOWER THAMES CROSSING**

Drawing title **Routes 2 to 4 Typical Cross Section Sheet 4 of 4**

| | | | |
|----------------|---------------------------|------------|---------------|
| Status | SS | Revision | P01 |
| Scale | 1:100 | Date | 24-07-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIN | Originator | Original Size |
| | HA540039 | HHJ | A1 |
| Drawing number | HML-CZZMLZZZML-DR-RD-0013 | | |

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|-----|--------|------------|---------------------|-------|---------|----------|
| PP1 | SS | 18/01/2016 | SAR ISSUE | AS | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

Appendix 3.7

WSL Plan and Profile Drawings

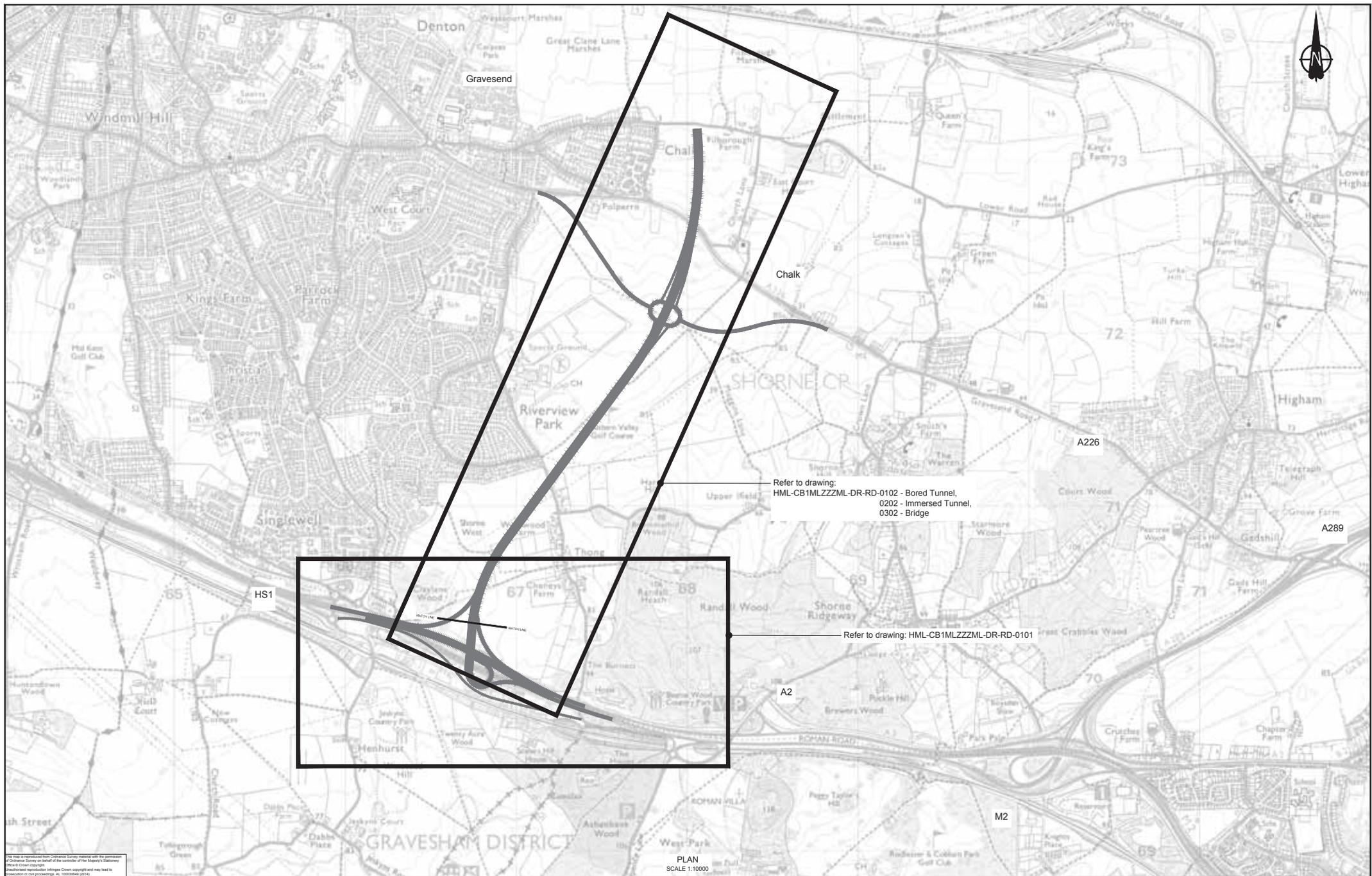
Western Southern Link General Plan Sheet 1 of 3

Western Southern Link Plan and Profile Sheet 2 of 3

Western Southern Link Bored Tunnel Plan and Profile Sheet 3 of 3

Western Southern Link Immersed Tunnel Plan and Profile Sheet 3 of 3

Western Southern Link Bridge Plan and Profile Sheet 3 of 3



PLAN
SCALE 1:10000

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NOTES

1. This drawing to be viewed in colour.
2. The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

LEGEND

— Western Southern Link

**ILLUSTRATIVE
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| | | | | | | |
|-----|--------|------------|---------------------|-------|---------|----------|
| P01 | SS | 18-01-2016 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

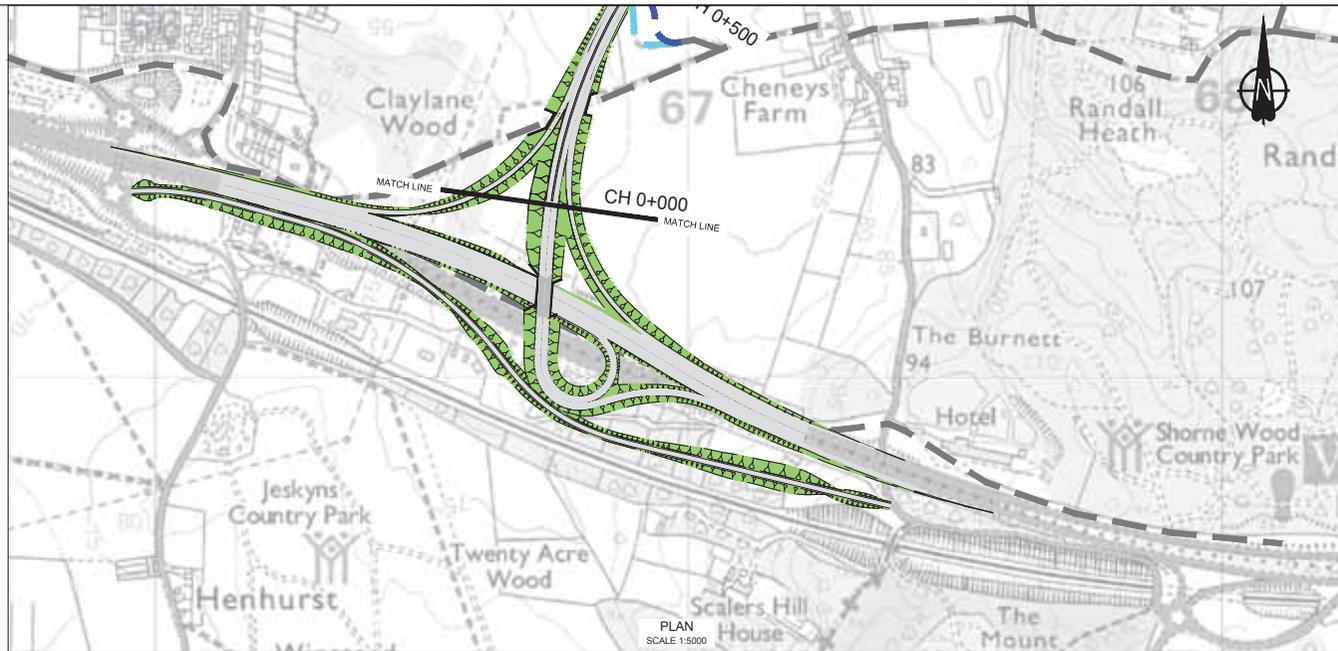
Client

Halcrow Hyder Joint Venture
Burderop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Western Southern Link General Plan Sheet 1 of 3**

| | | | |
|----------------|---------------------------|--------------|----------|
| Status | SS | Revision | P01 |
| Scale | As shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Created By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA_PIV_HA540039 | I Originator | HHJ |
| Original Size | | | A1 |
| Drawing number | HML-CB1MLZZZML-DR-RD-0100 | | |



LEGEND - PLAN

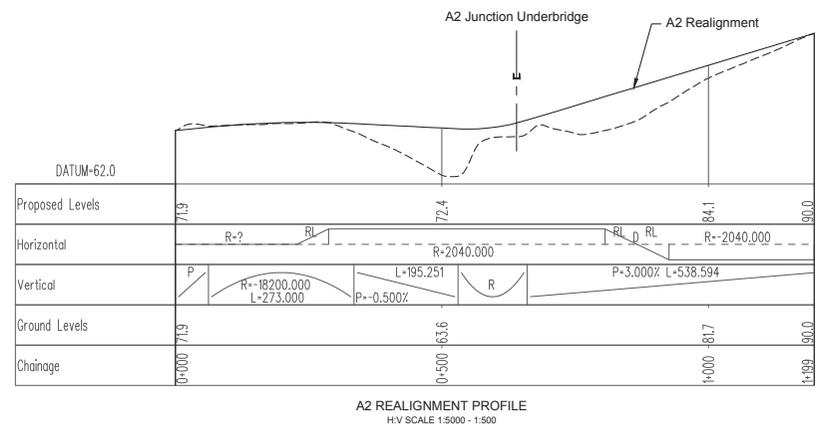
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

LEGEND - PROFILE

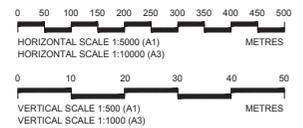
- Existing ground profile
- Structure location

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PLAN
SCALE 1:5000



- NOTES**
- For key plan refer to drawing HML-CB1MLZZZML-DR-RD-0100.
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



**ILLUSTRATIVE
DESIGN**

Client

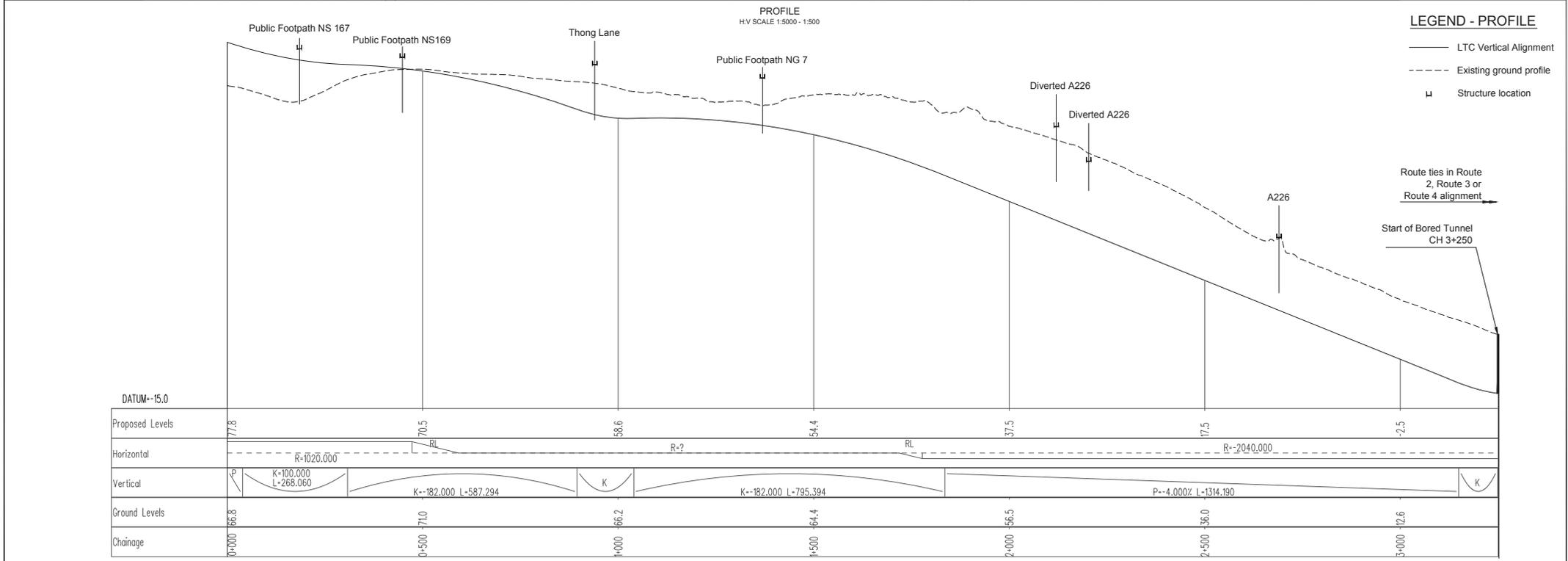
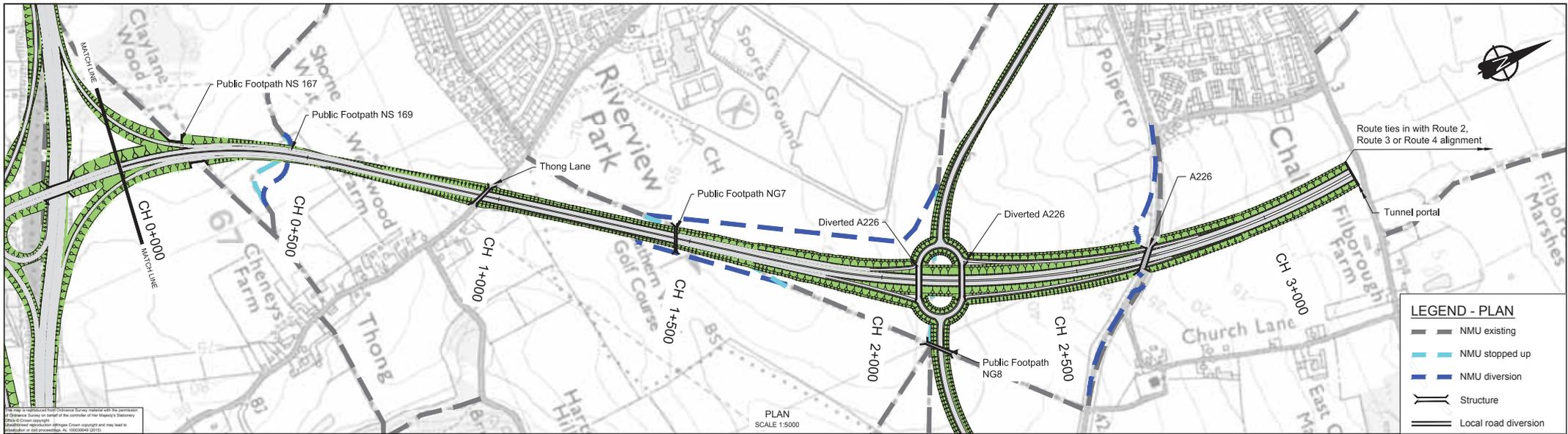
Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Western Southern Link Plan & Profile Sheet 2 of 3

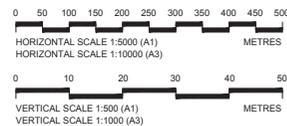
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|----------------|---------------------------|------------|---------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PHV I | Originator | Original Size |
| | HA540039 | HHJ | A1 |
| Drawing number | HML-CB1MLZZZML-DR-RD-0101 | | |

| | | | | | | |
|-----|--------|------------|---------------------|-------|---------|----------|
| P01 | SS | 18-01-2016 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |



NOTES

- For Key Plan refer to drawing HML-CB1MLZZZML-DR-RD-0100.
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



ILLUSTRATIVE DESIGN

Client

Halcrow Hyder Joint Venture

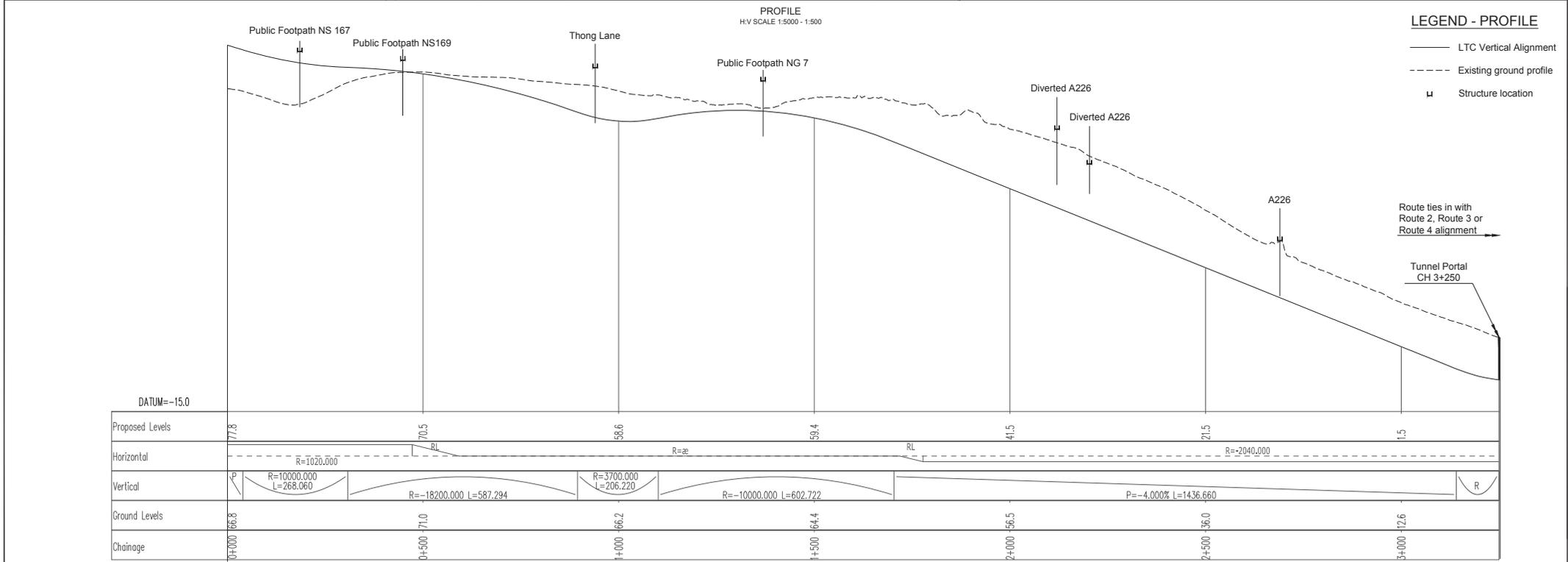
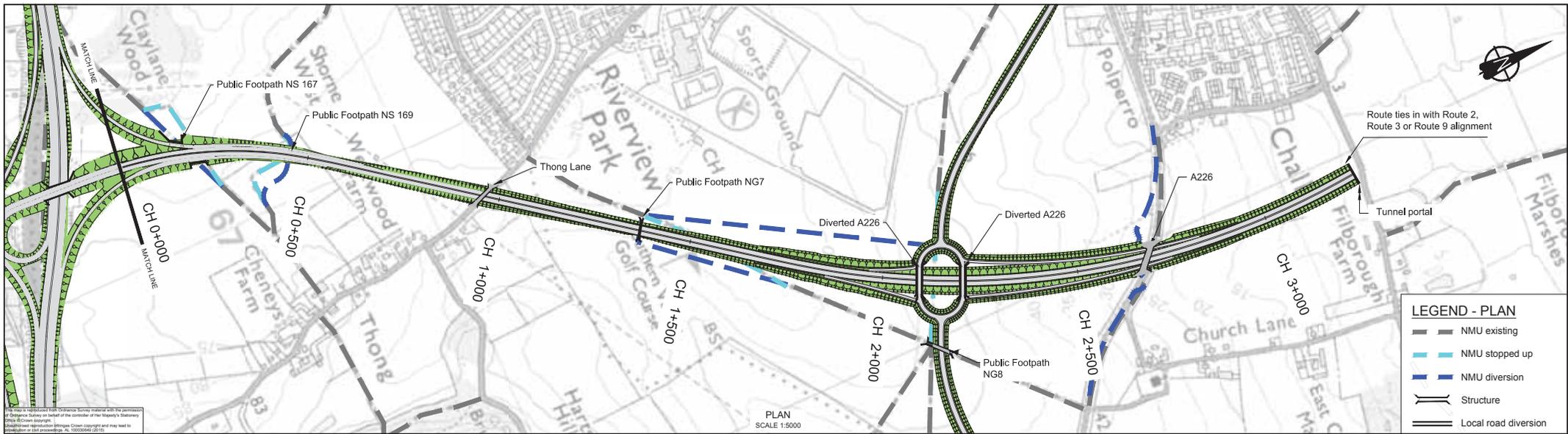
Burderop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project LOWER THAMES CROSSING

Drawing title Western Southern Link Bored Tunnel Plan & Profile Sheet 3 of 3

| | | | |
|----------------|---------------------------|------------|---------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PHV I | Originator | Original Size |
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| Drawing number | HML-CB1MLZZZML-DR-RD-0102 | | |

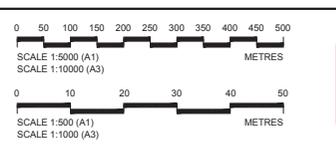
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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |
| P01 | SS | 18-01-2016 | SAR Issue | AG | MR | GH |



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|-----|--------|-----------|---------------------|-------|---------|----------|
| PG1 | SS | 18-01-16 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

NOTES

- For Key Plan refer to drawing HML-CB1MLZZZML-DR-RD-0100.
- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



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Client

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Project

LOWER THAMES CROSSING

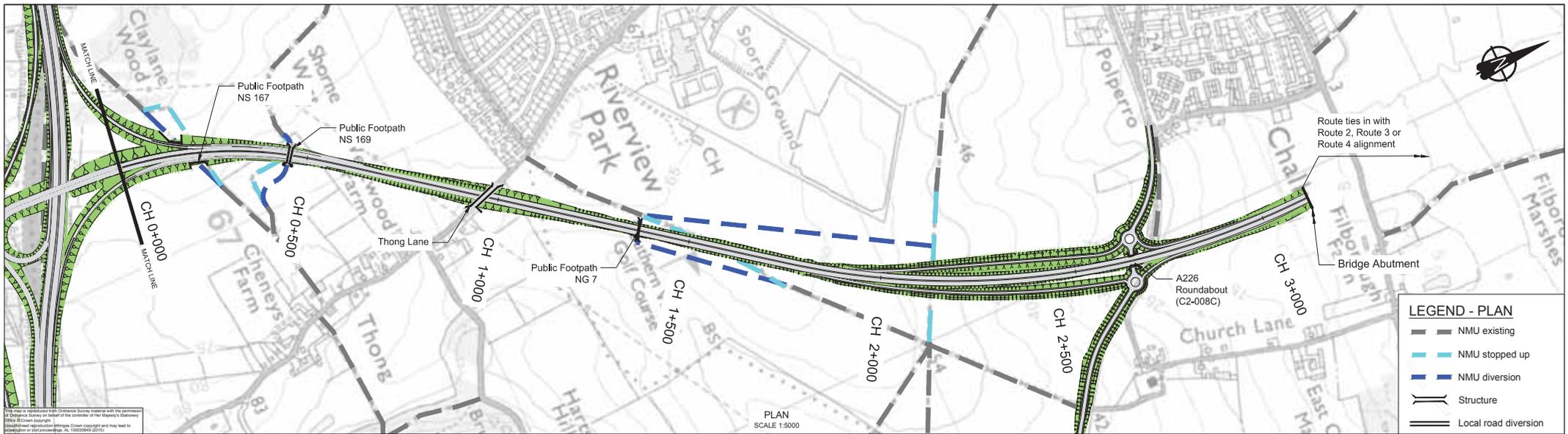
Drawing title

Western Southern Link Immersed Tunnel

Plan & Profile

Sheet 3 of 3

| | | | |
|----------------|---------------------------|---------------|--------------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robinson |
| Approved By | G Hodge | Project No. | HA_PN_I_Originator |
| Project No. | HA_PN_I_Originator | Original Size | A1 |
| Drawing number | HML-CB1MLZZZML-DR-RD-0202 | | |



LEGEND - PLAN

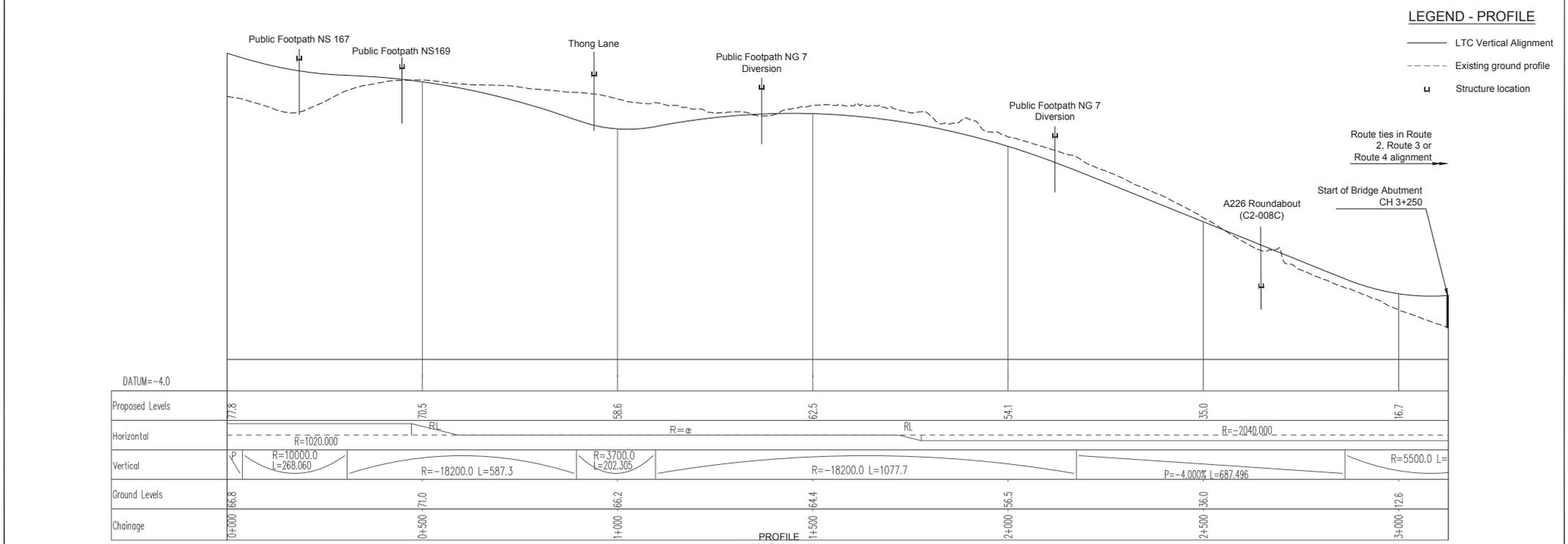
- NMU existing
- NMU stopped up
- NMU diversion
- Structure
- Local road diversion

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PLAN
SCALE 1:5000

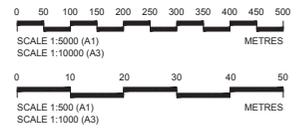
LEGEND - PROFILE

- LTC Vertical Alignment
- Existing ground profile
- Structure location



PROFILE
H/V SCALE 1:5000 - 1:500

- NOTES**
- For Key Plan refer to drawing HML-CB1MLZZZML-DR-RD-0100.
 - The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



**ILLUSTRATIVE
DESIGN**

| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| PC1 | SS | 18-01-18 | SAR Issue | AG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1753 812479

Project **LOWER THAMES CROSSING**

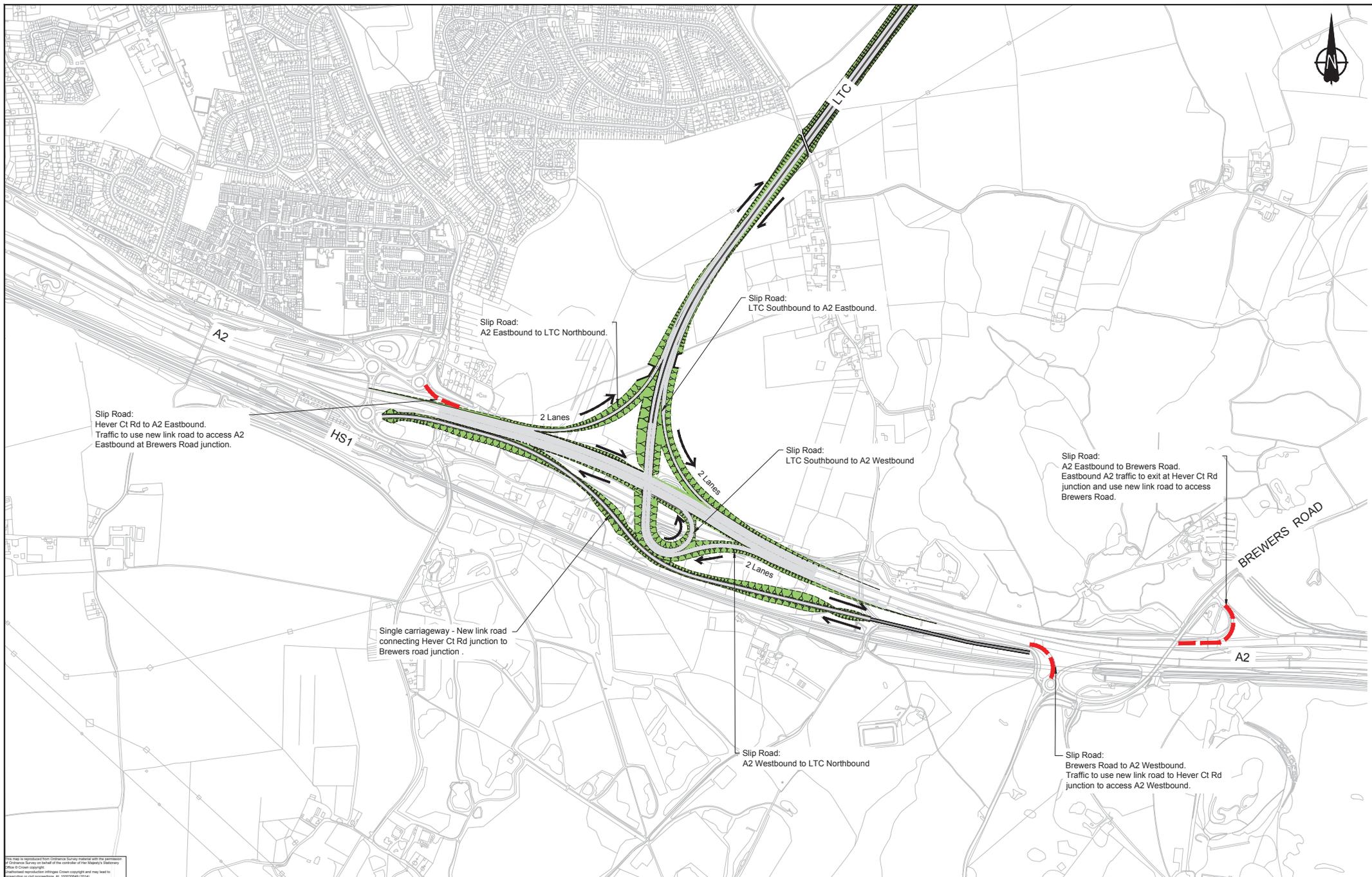
Drawing title **Western Southern Link Bridge Plan & Profile Sheet 3 of 3**

| | | | |
|---------------|----------|----------------|---------------------------|
| Status | SS | Revision | P01 |
| Scale | As Shown | Date | 06-11-15 |
| Drawn By | A Garcia | Checked By | M Robinson |
| Approved By | G Hodge | Project No. | HA_PN_I Originator |
| | HA540039 | HA540039 | HHJ |
| Original Size | A1 | Drawing number | HML-CB1MLZZZML-DR-RD-0302 |

Appendix 3.8

WSL A2 Junction Drawing

Western Southern Link A2 Free Flow Junction



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|-----|--------|-----------|---------------------|-------|---------|---------|
| PO1 | SS | 18-01-18 | SAR Issue | ASM | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |

Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

ILLUSTRATIVE DESIGN

SCALE 1:50000 (A1)
SCALE 1:100000 (A3)

Client

Halcrow Hyder Joint Venture
Burdorop Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Western Southern Link A2 Free Flow Junction**

| | | | |
|----------------|---------------------|---------------|---------------------------|
| Status | SS | Revision | PO1 |
| Scale | 1:50000 | Date | 06-11-15 |
| Drawn By | A Sánchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIV I Originator | Original Size | A1 |
| Drawing number | HA540039 | HHJ | HML-CB1JC01AJL-DR-RD-0001 |

Appendix 3.9

WSL A226 Junction Drawings

Western Southern Link Tunnel A226 Grade Separated Junction
Western Southern Link Bridge A226 Grade Separated Junction



| | | | | | | |
|-----|--------|------------|---------------------|-------|---------|----------|
| PO1 | SS | 18/01/2016 | SAR Issue | ASM | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Approved |

Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

ILLUSTRATIVE DESIGN

0 50 100 150 200 250 300 350 400 450 500
SCALE 1:50000 (A1)
SCALE 1:100000 (A3) METRES

Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Western Southern Link Tunnel
A226 Grade Separated Junction**

| | | | |
|---------------------|---------------------------|-------------|---------------------|
| Status | SS | Revision | PO1 |
| Scale | 1:50000 | Date | 06-11-15 |
| Drawn By | A Sanchez Muñoz | Checked By | M Robinson |
| Approved By | G Hodges | Project No. | HA PIV I Originator |
| HA PIV I Originator | HA540039 | HHJ | Original Size |
| Drawing number | HML-CB1JC02AJL-DR-RD-0001 | | |



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|-----|--------|-----------|---------------------|-------|---------|----------|
| PO1 | SS | 18-01-18 | SAR Issue | ASM | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Approved |

Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

ILLUSTRATIVE DESIGN

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

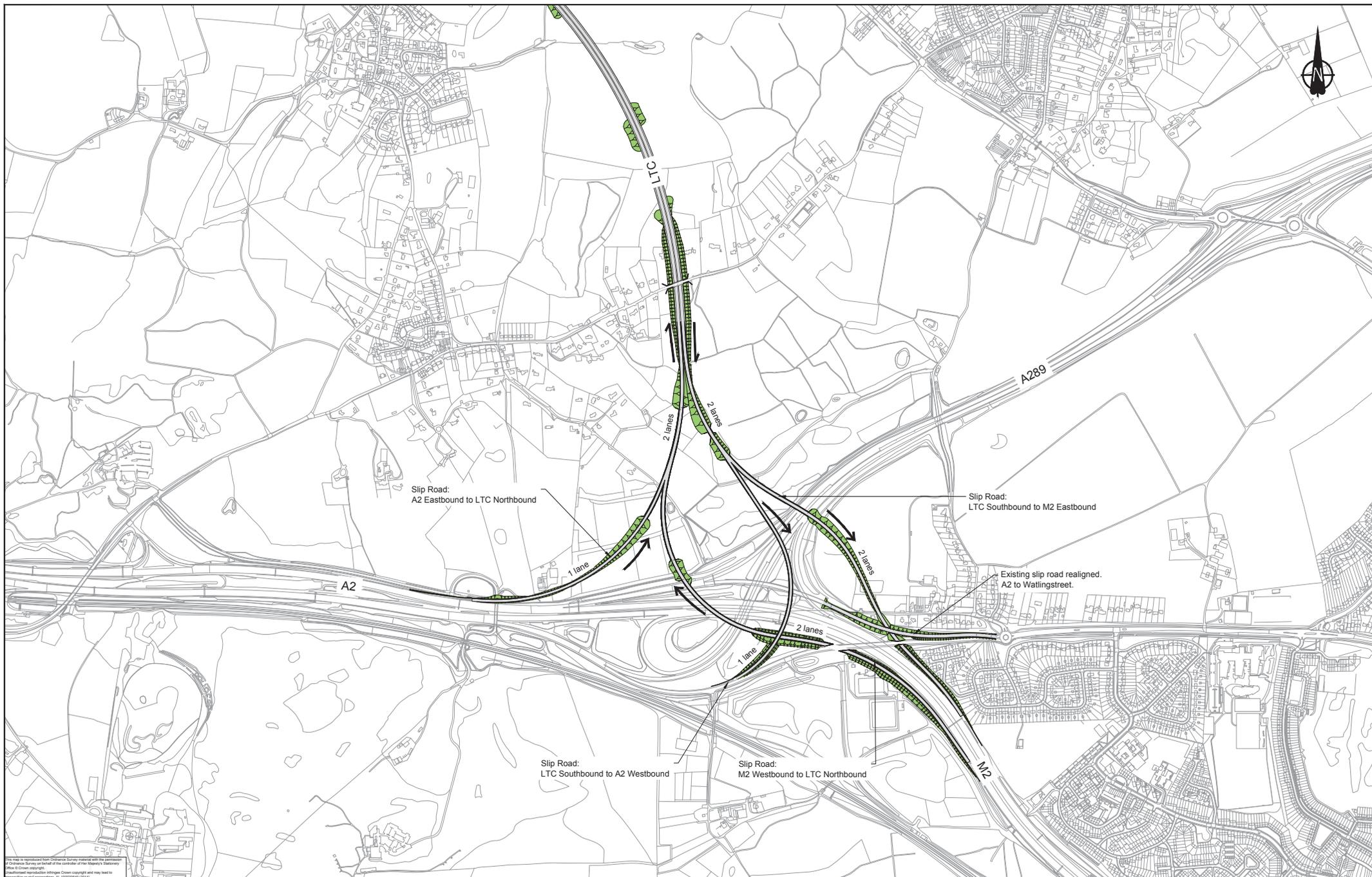
Drawing title **Western Southern Link Bridge
A226 Grade Separated Junction**

| | | | |
|----------------|---------------------------|---------------|----------|
| Status | SS | Revision | PO1 |
| Scale | 1:5000 | Date | 06-11-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA Pw I Originator | Original Size | A1 |
| 496945 | HHJ | | |
| Drawing number | HML-CB1JC02BJL-DR-RD-0001 | | |

Appendix 3.10

ESL M2 Junction 1 Drawing

Eastern Southern Link M2 Junction 1 Free Flow



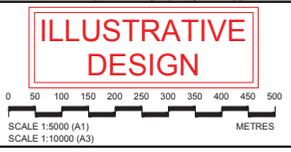
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Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.



| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|---------|
| P01 | SS | 18-01-18 | SAR Issue | JAG | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |

Client

Halcrow Hyder Joint Venture
 Burderop Park
 Swindon, SN4 0QD
 Tel. +44(0)1793 812479

Project **LOWER THAMES CROSSING**

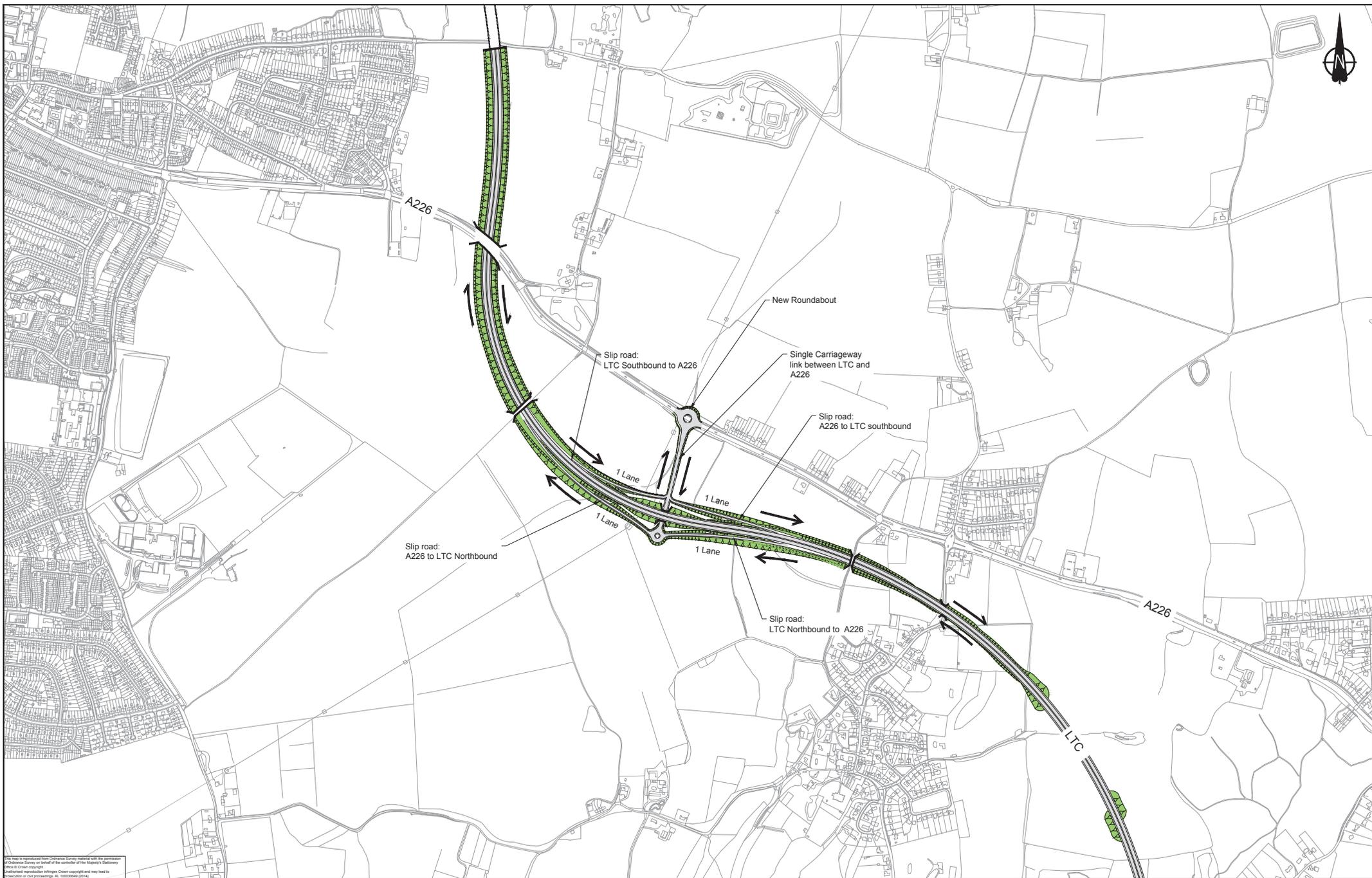
Drawing title **Eastern Southern Link M2 Junction 1 Free Flow**

| | | | |
|----------------|---------------------------|---------------|------------|
| Status | SS | Revision | P01 |
| Scale | 1:5000 | Date | 06-11-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA P05 I Originator | Original Size | A1 |
| HA | P05 | I | Originator |
| HA540039 | HHJ | | |
| Drawing number | HML-CD1JC01AJL-DR-RD-0001 | | |

Appendix 3.11

ESL A226 Junction Drawings

Eastern Southern Link Tunnel A226 Grade Separated Junction
Eastern Southern Link Bridge A226 Grade Separated Junction



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|-----|--------|-----------|---------------------|-------|---------|---------|
| PO1 | SS | 06-11-15 | SAR Issue | ASM | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |

Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

ILLUSTRATIVE DESIGN

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

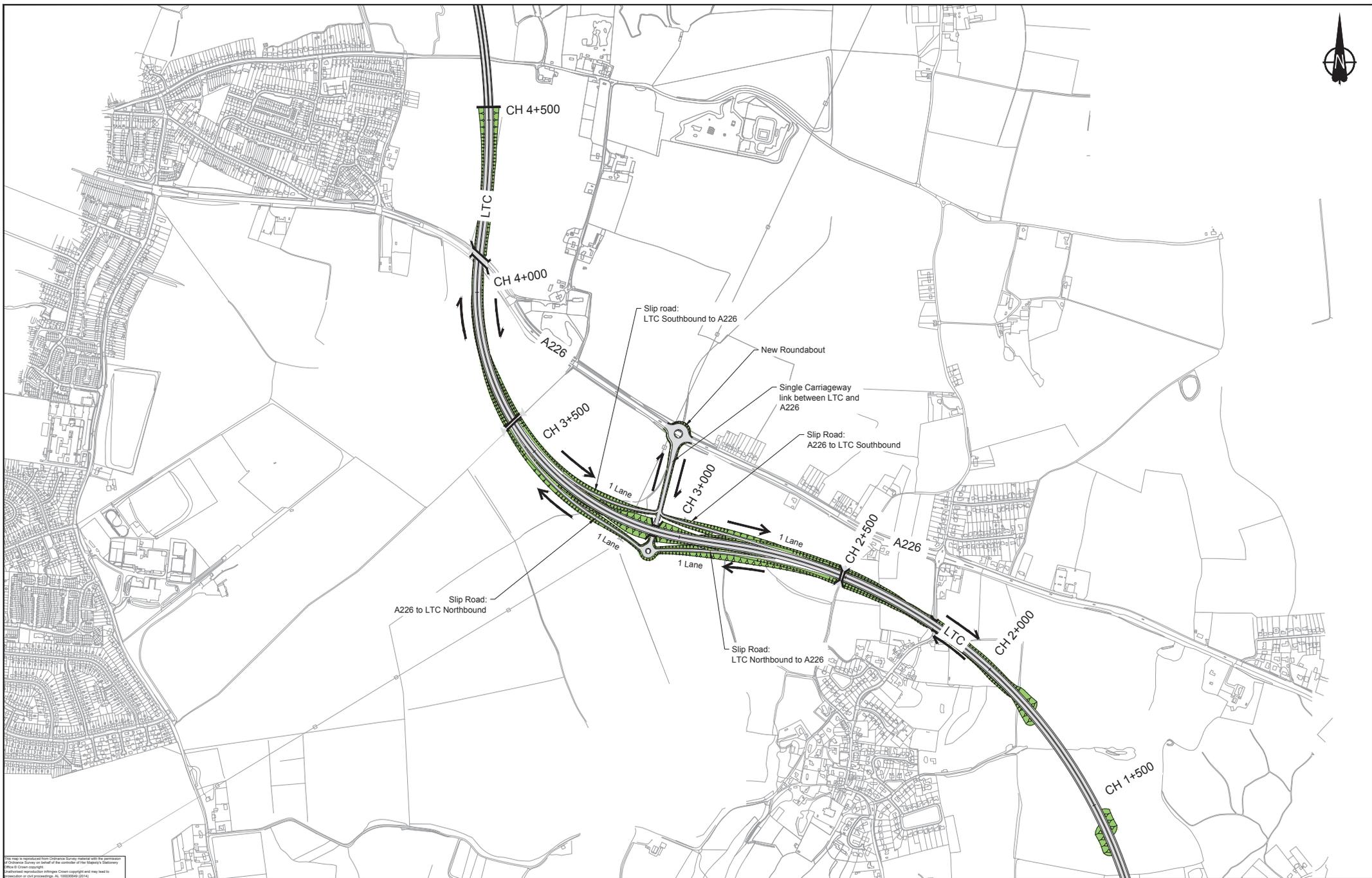
Client

Halcrow Hyder Joint Venture
Burdorpe Park
Swindon, SN4 0QD
Tel. +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Eastern Southern Link Tunnel A226 Grade Separated Junction**

| | | | |
|---|-----------------|---------------|---------------|
| Status | SS | Revision | P01 |
| Scale | 1:5000 | Date | 06-11-15 |
| Drawn By | A Sanchez Muñoz | Checked By | M Robinson |
| Approved By | G Hodge | Project No. | HA Pin 496945 |
| Original Size | A1 | Original Size | A1 |
| Drawing number HML-CD1JC02AJL-DR-RD-0001 | | | |



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| | | | | | | |
|-----|--------|-----------|---------------------|-------|---------|----------|
| PO1 | SS | 18-01-18 | SAR Issue | ASM | MR | GH |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Checked | Approved |

Key:

| | |
|--|---------------------------|
| | Direction of traffic flow |
| | Structure |
| | Existing road stopped up |
| | Local road diversion |

NOTES:

- The design shown on these drawings is illustrative and may be subject to change in later stages of the scheme development.

ILLUSTRATIVE DESIGN

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Client

Halcrow Hyder Joint Venture
Burdorop Park
Swindon, SN4 0QD
Tel: +44(0)1793 812479

Project **LOWER THAMES CROSSING**

Drawing title **Eastern Southern Link Bridge
A226 Grade Separated Junction**

| | | | |
|---------------------------|---------------------|---------------|----------|
| Status | SS | Revision | P01 |
| Scale | 1:5000 | Date | 06-11-15 |
| Drawn By | A Sanchez Muñoz | | |
| Checked By | M Robinson | | |
| Approved By | G Hodge | | |
| Project No. | HA PIN I Originator | Original Size | A1 |
| Drawing number | 496945 | | |
| HML-CD1JC02BJL-DR-RD-0001 | | | |

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Report No HA540039-HHJ-ZZZ-REP-ZZZ-010

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The Pre-Consultation Scheme Assessment Report details the assessment of options leading up to consultation. A final Scheme Assessment Report will be published post consultation.