

A12 Chelmsford to A120 widening scheme

**Map book 3: Engineering plans
(Set 3 of 4 - Side Roads)**

A12 Chelmsford to A120 widening scheme map books

The three map books prepared for this statutory consultation contain plans of the proposed scheme 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 proposed scheme in detail to help the viewer better understand our proposals.

The plans run from junction 19 (Boreham interchange) to junction 25 (Marks Tey interchange). Identically numbered sheets in the different map books show the same area. For example, in map book 1, sheet 1 shows the layout around junction 19, and in map book 2, sheet 1 shows the land use plan around junction 19. This principle applies across all the map book 1 and map book 2 sheets but is not carried through into map book 3.

Map book 1: General arrangements

The general arrangements show the layout of the proposed scheme, including:

- Permanent works, new roads, earthworks and roadside features such as signage and lighting columns
- Environmental mitigation, landscaping and tree planting

- Provisional order limits (also known as the red line boundary)
- Open space and replacement land

Map book 2: Land use plans

The land use plans show the areas where we are seeking powers to acquire land and rights permanently. They also show the land we require for a temporary period to construct the proposed scheme. We may need the land permanently for:

- road alignments
- junction improvements
- environmental mitigation
- drainage

Permanent works

Purchase of land or acquisition of permanent rights will be required for the route of the road, to reconnect local roads and for associated structures like drainage ponds.

Permanent rights

Land used temporarily for construction and thereafter required for the creation of new permanent rights for example, to maintain the proposed scheme including the highway and associated apparatus, for rights of access or for rights to operate and maintain new statutory undertaker apparatus. It may also be required where existing rights

need to be acquired, suspended, changed or extinguished to construct and operate the proposed scheme.

Temporary works

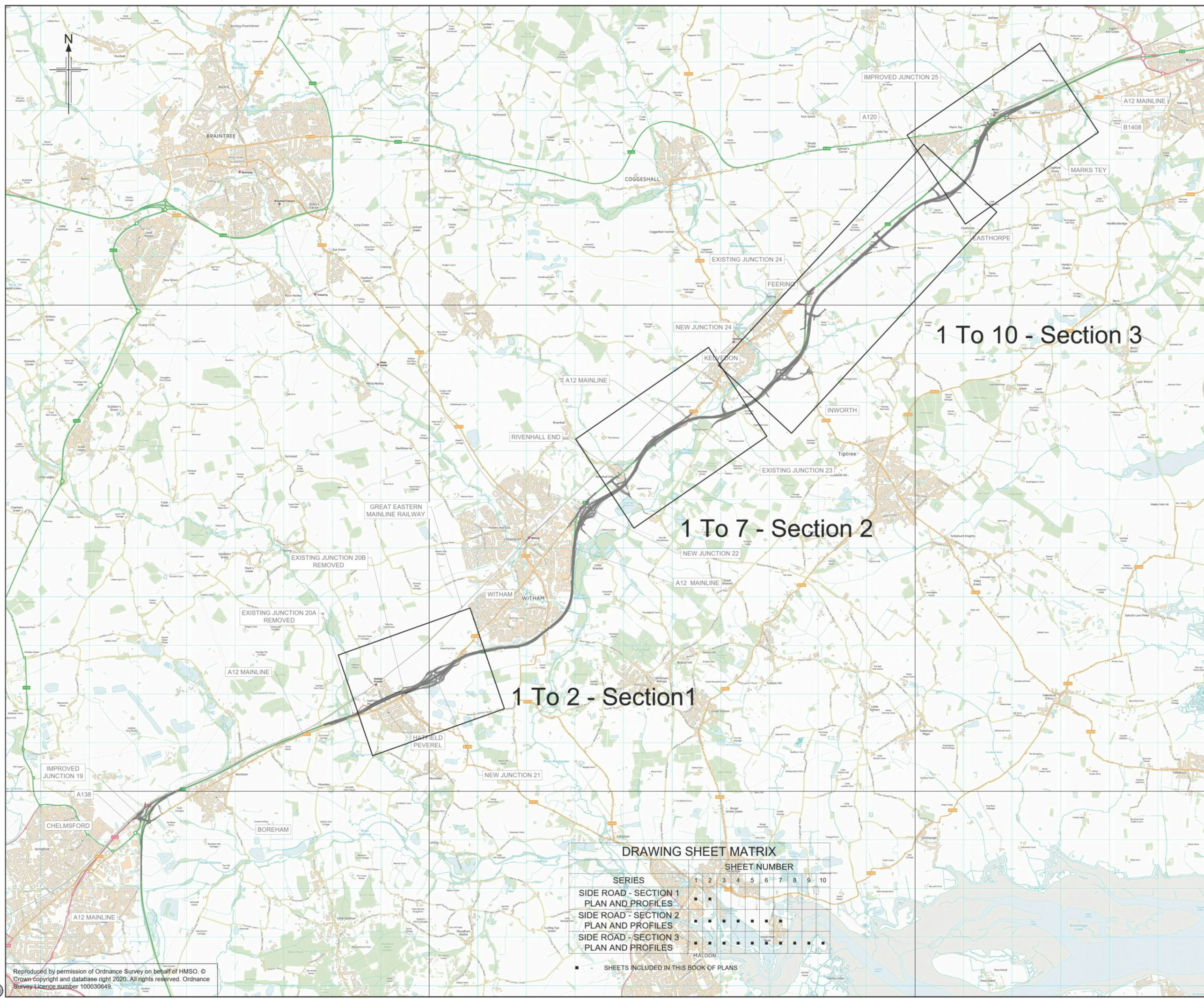
Temporary use of land is needed for the proposed scheme to be constructed safely. The plans show land that may be required temporarily for the main construction compounds at various locations along the route. We will also require temporary access over land to divert utilities such as gas pipelines, electricity cables and water pipes. Any land that is only required temporarily will be returned to its previous use wherever possible once construction is complete.

Map book 3: Engineering plans

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

The profile shows the road level in relation to the existing ground at given distances along the route, referred to as chainages. An exaggerated scale is used in the profile to help show the differences in levels and slopes 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 sea level. As is the standard approach on engineering projects, sea level is taken from a reference point at Newlyn in Cornwall. The profile reference level might be different on each drawing.



DRAWING SHEET MATRIX

SERIES	SHEET NUMBER									
	1	2	3	4	5	6	7	8	9	10
SIDE ROAD - SECTION 1 PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
SIDE ROAD - SECTION 2 PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
SIDE ROAD - SECTION 3 PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
■ SHEETS INCLUDED IN THIS BOOK OF PLANS										

1 To 10 - Section 3

1 To 7 - Section 2

1 To 2 - Section 1

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Cottons Centre, Cottons Lane
 London SE1 2QG. Tel: +44 (0)203 9802000
 www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **COVERSHEET
 PLAN AND PROFILES
 SIDE ROADS**

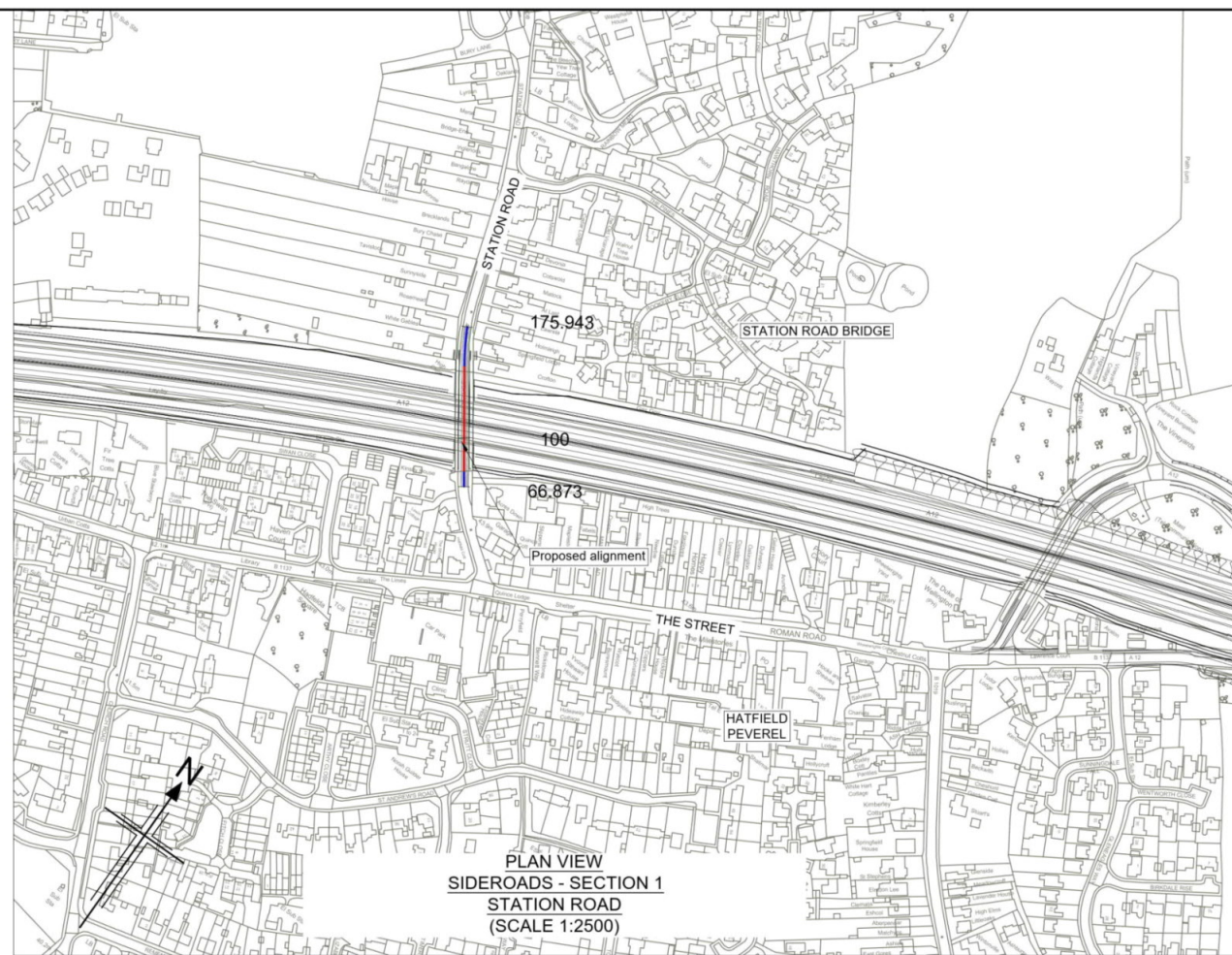
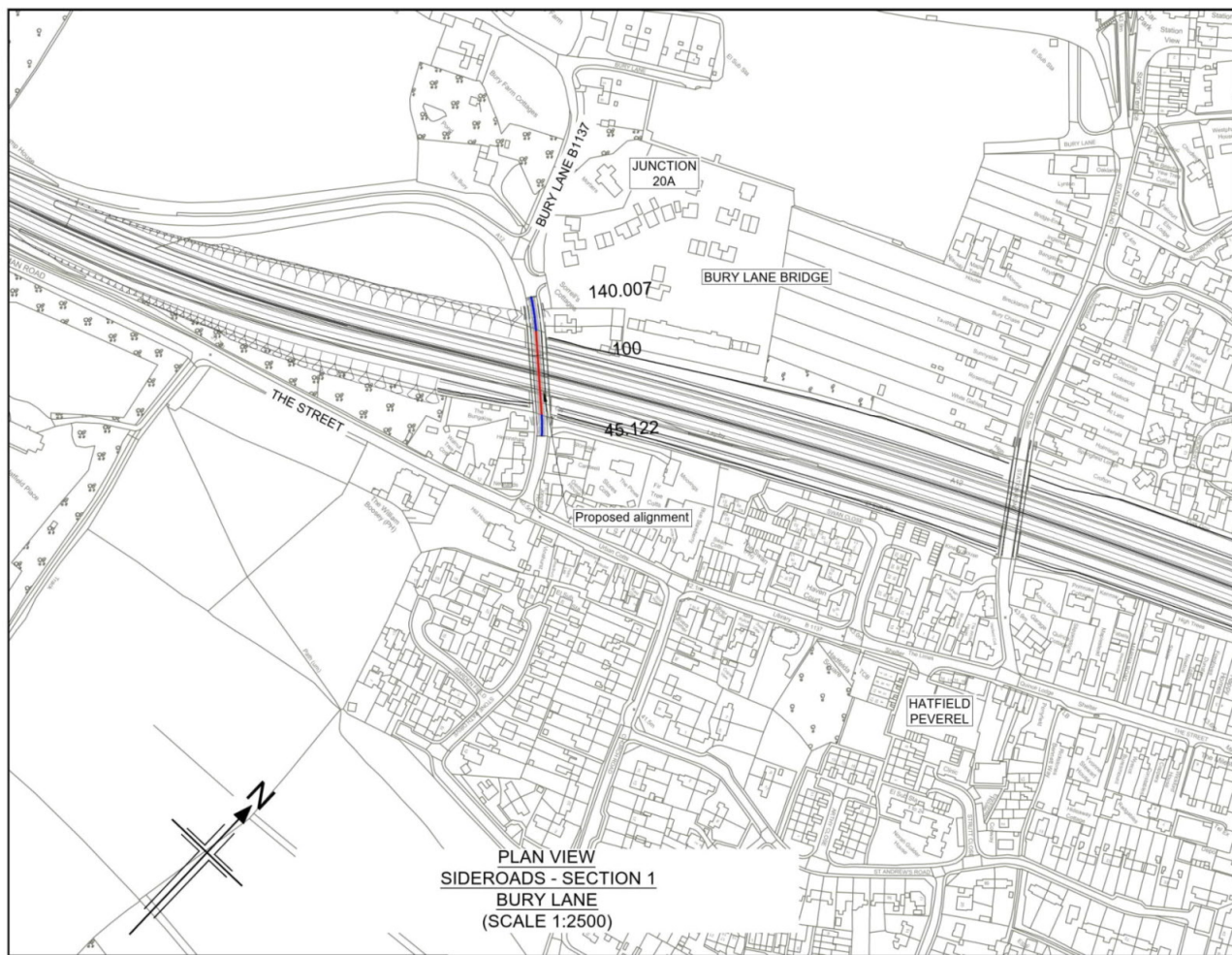
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code: Preliminary
 Project Stage: PCF3
 Scale: NTS **DO NOT SCALE**
 Jacobs No. B36601D1 Rev P01
 Client no. HE551497

Drawing number: PIN Originator Volume
HE551497 - JAC - HGN-
 Location Type Role Number
SCHW -DR- C -0030

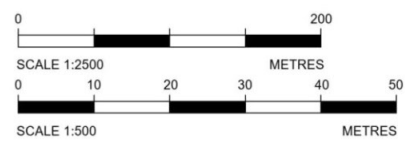
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 - For Sheet Layout Plan refer to:
HE551497-JAC-HGN-SCHW-DR- C-0028 for Mainline profiles.
HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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Level = 41.707m
Age = 23.764m
10.163m

PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION	CHAINAGE
40.892	4.026%	40.220	0.672	R: 50.000m L: 37.125m L = 57.547m	R = 650.000R = 650.000 L = 55.879 L = 11.827 G = -4.488% L = 3.700		45.12 60.00 80.00 100.00 120.00 140.00 140.01
41.574	2.029%	34.464	7.110	R: 127.000m R: 150.000m L: 59.560m L: 33.028m	G = 4.114% G = -2.664% L = 45.665 L = 23.064		
41.672	-1.048%	34.652	7.019				
41.154	-4.125%	40.490	0.665				
40.409	-2.664%	40.444	-0.036				

Datum: 30.00 mAOD

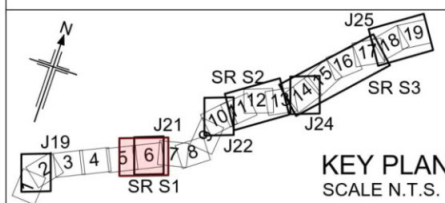
**LONGITUDINAL SECTION
SIDEROADS - SECTION 1 - BURY LANE
(SCALE H=1:2500, V=1:500)**

HP Chainage = 123.133m
Level = 44.913m

PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION	CHAINAGE
44.045	1.579%	44.126	-0.081		G = 2.680% R = 900.000 L = 15.806 L = 26.679 G = -3.461% L = 3.452		66.87 80.00 100.00 120.00 140.00 160.00 175.94
44.526	2.680%	37.451	7.075	L = 76.086m	R = 900.000R = 650.000 L = 23.235 L = 39.915		
44.505	0.482%	37.842	7.663				
44.684	-2.595%	43.563	1.131				
44.092	-2.248%	44.070	0.022				

Datum: 35.00 mAOD

**LONGITUDINAL SECTION
SIDEROADS - SECTION 1 - STATION ROAD
(SCALE H=1:2500, V=1:500)**



P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **Jacobs**
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London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 1
BURY LANE
SHEET 1 OF 2**

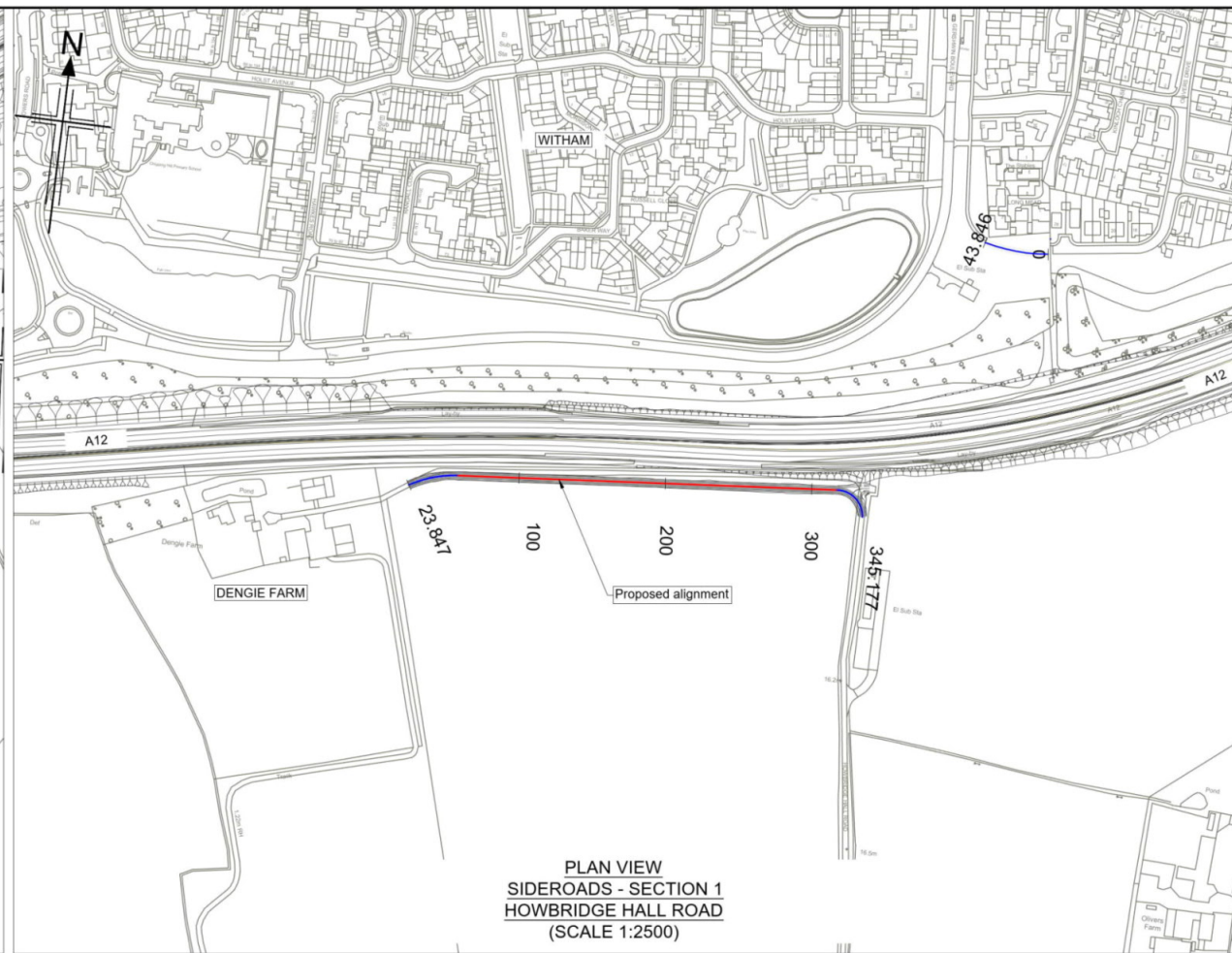
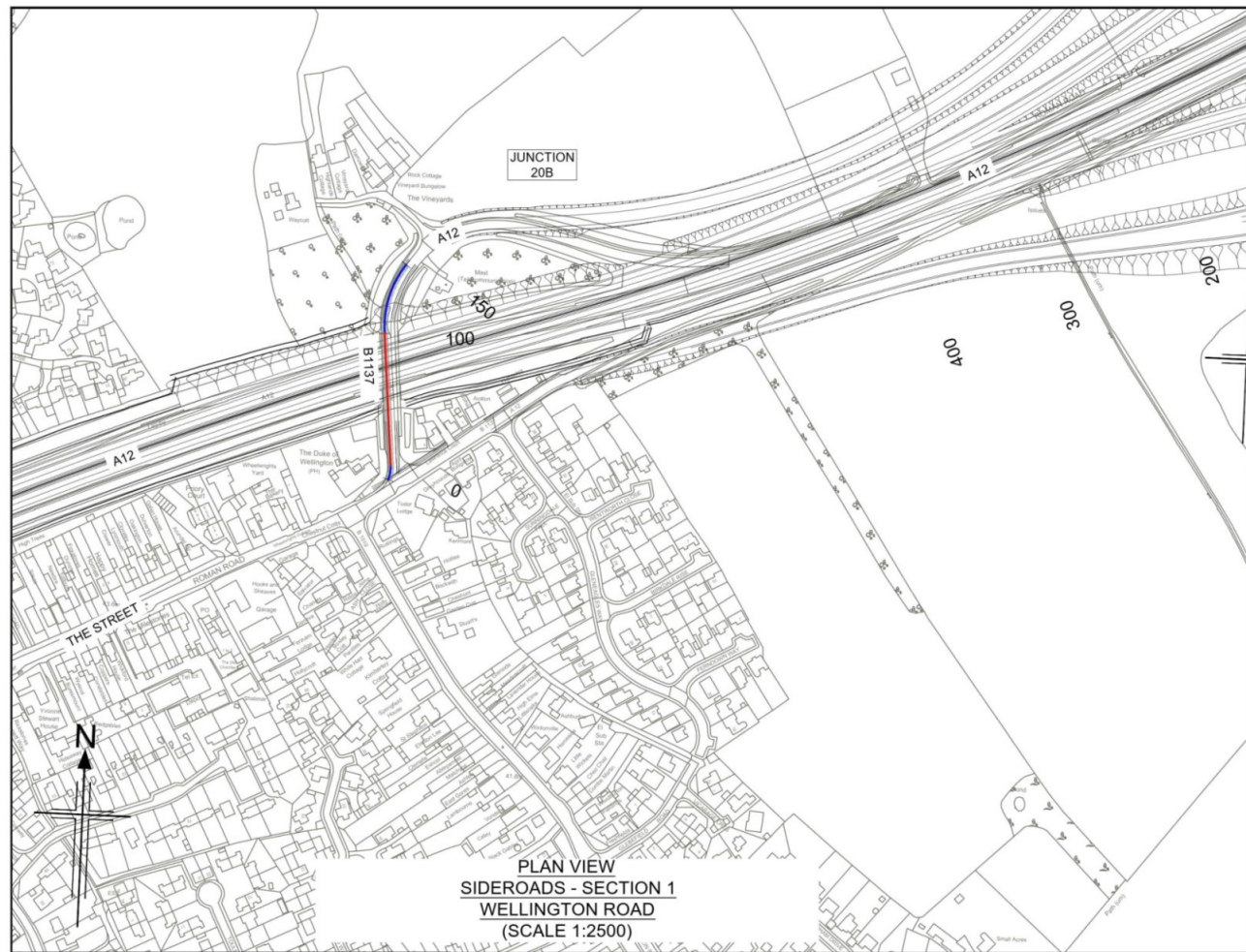
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number	HE551497 - JAC - HSR - S1 SR	Originator	JAC	Volume	-DR- C-0001
Location	S1 SR	Type	Role	Number	

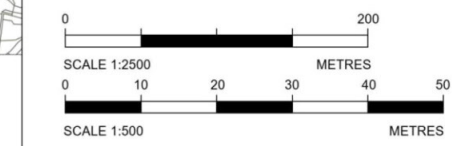
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HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
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- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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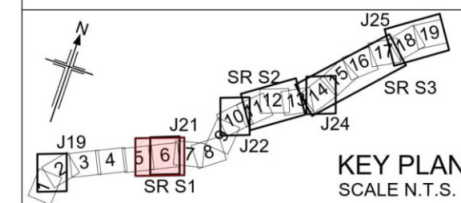
CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	44.882	5.000%	43.849	0.133	R: 24.703m L: 10.016m	G = 5.000% L = 57.257	
20.00	45.082	5.000%	44.366	0.715			
40.00	46.082	5.000%	45.086	0.996			
60.00	47.075	4.538%	40.558	6.518			
80.00	47.675	1.461%	39.769	7.907			
100.00	47.660	-1.616%	44.081	3.579		R = 650.000 L = 47.328	
120.00	47.218	-2.281%	47.082	0.136	R: 68.023m L: 49.134m	G = -2.281% L = 46.010	
140.00	46.762	-2.281%	46.760	0.002			
166.34	46.526	-2.281%	46.526	0.000			

**LONGITUDINAL SECTION
SIDEROADS - SECTION 1 - WELLINGTON ROAD
(SCALE H=1:2500, V=1:500)**

Datum: 15.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
23.85	21.254	-1.957%	21.385	-0.072			
40.00	20.938	-1.957%	21.139	-0.201	R: 77.296m L: 34.699m		
60.00	20.547	-1.957%	20.524	0.023			
80.00	20.155	-1.957%	20.206	-0.050			
100.00	19.767	-1.689%	19.774	-0.007			
120.00	19.511	-1.232%	19.538	-0.027			
140.00	19.265	-1.232%	19.388	-0.123			
160.00	19.019	-1.232%	19.058	-0.040			
180.00	18.772	-1.232%	18.860	-0.088			
200.00	18.526	-0.611%	18.526	0.000			
220.00	18.386	-0.611%	18.386	0.000			
240.00	18.313	-0.611%	18.226	0.087			
260.00	18.191	-0.611%	18.059	0.092			
280.00	18.064	-0.977%	17.935	0.129			
300.00	17.783	-1.444%	17.715	0.068			
320.00	17.494	-1.444%	17.525	-0.031			
340.00	17.205	-1.444%	16.741	0.464			
345.18	16.708	-1.444%	16.708	0.000			

**LONGITUDINAL SECTION
SIDEROADS - SECTION 1 - HOWBRIDGE HALL ROAD
(SCALE H=1:2500, V=1:500)**



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
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Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 1
WELLINGTON ROAD
SHEET 2 OF 2**

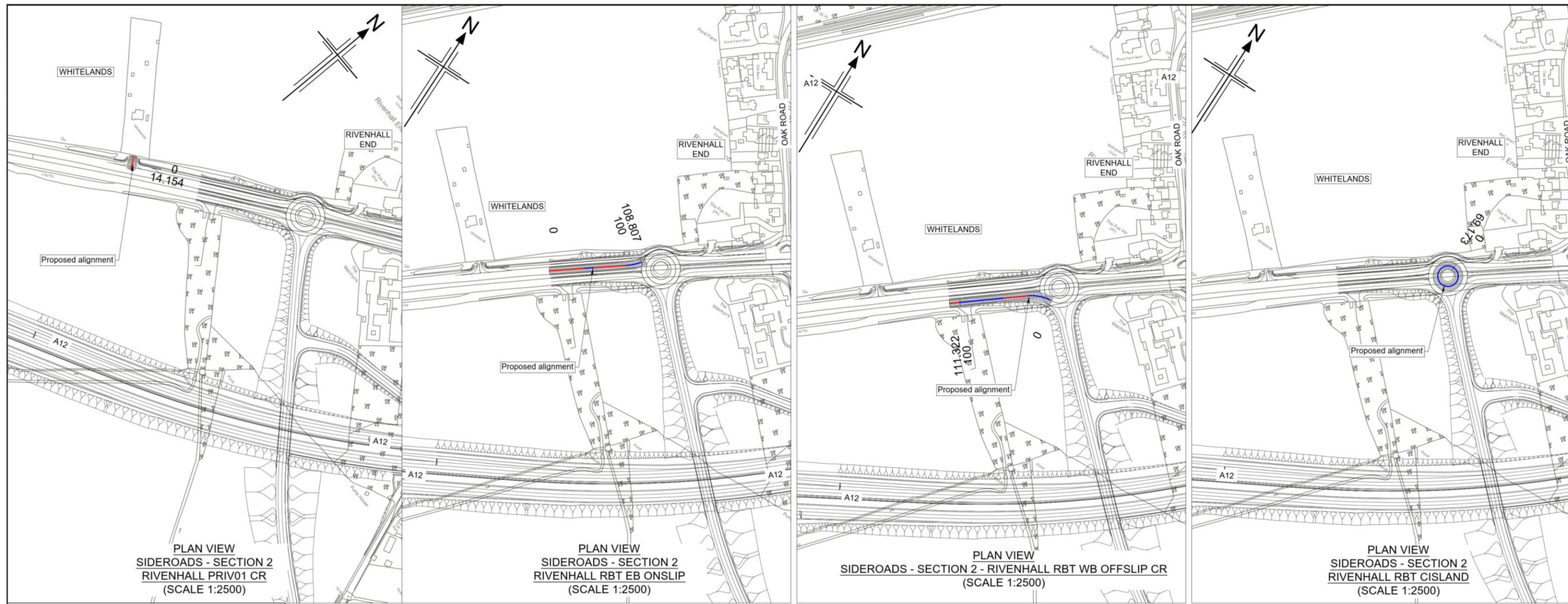
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State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number	HE551497 - JAC - HSR - S1 SR
Originator	JAC
Volume	-DR- C-0002

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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

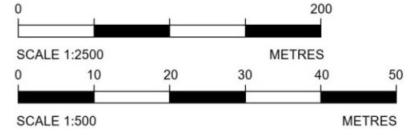
Key

PLAN

- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

PROFILE

- Existing ground
- Proposed ground (constant gradient)
- Proposed ground (vertical curve)



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Datum: 15.00 mAOD

PROPOSED LEVELS	18.449	19.149
GRADIENT	8.306%	-2.060%
EXISTING LEVELS	18.449	19.149
LEVEL DIFFERENCE	0.000	0.000
HORIZONTAL	L = 14.154m	
VERTICAL	G = 8.306% L = 14.154 G = -2.060% L = 2.404	
SUPERELEVATION		
CHAINAGE	00.00	14.16

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL PRIV01 CR
(SCALE H=1:2500, V=1:500)

Datum: 20.00 mAOD

PROPOSED LEVELS	20.671	21.219	21.767	22.315	22.861	23.172	23.239
GRADIENT	2.740%	2.740%	2.740%	2.740%	2.546%	0.761%	0.761%
EXISTING LEVELS	20.671	21.168	21.730	22.205	22.738	23.077	23.161
LEVEL DIFFERENCE	0.000	0.031	0.037	0.050	0.123	0.095	0.079
HORIZONTAL	L = 69.486m		R = 60.000m L = 13.747m		L = 12.745m R = 40.000m L = 12.830m		
VERTICAL	G = 2.740% L = 78.062		G = 0.761% L = 10.957		R = 1000.000 L = 19.789		
SUPERELEVATION							
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	108.81

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL RBT EB ONSLIP
(SCALE H=1:2500, V=1:500)

Datum: 15.00 mAOD

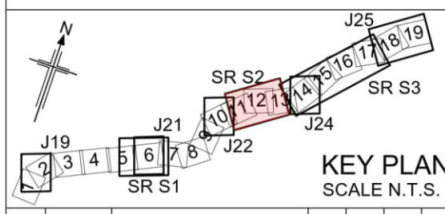
PROPOSED LEVELS	23.357	23.195	22.675	21.779	20.798	19.992	19.690
GRADIENT	-0.566%	-1.600%	-3.600%	-4.907%	-4.907%	-2.928%	-2.634%
EXISTING LEVELS	23.359	21.963	21.470	20.977	20.495	19.978	19.690
LEVEL DIFFERENCE	1.027	1.232	1.205	0.802	0.302	0.014	0.000
HORIZONTAL	R = 45.000m L = 25.152m		R = 4753.878m L = 26.156m		L = 1.808m L = 39.966m		
VERTICAL	G = -0.566% L = 11.257		G = -4.907% L = 29.114		R = 1000.000 L = 39.066		
SUPERELEVATION							
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	111.32

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL RBT WB OFFSLIP CR
(SCALE H=1:2500, V=1:500)

Datum: 20.00 mAOD

PROPOSED LEVELS	23.533	23.538	23.290	23.401
GRADIENT	0.869%	-0.988%	-0.546%	1.447%
EXISTING LEVELS	23.537	22.696	22.432	23.506
LEVEL DIFFERENCE	-0.004	0.843	0.857	-0.106
HORIZONTAL	L = 69.173m			
VERTICAL	R = 1000.000 L = 24.199 G = -1.561% L = 4.943 G = 0.859% L = 1.726			
SUPERELEVATION				
CHAINAGE	00.00	20.00	40.00	69.17

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL RBT CISLAND
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
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London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
RIVENHALL
SHEET 1 OF 7**

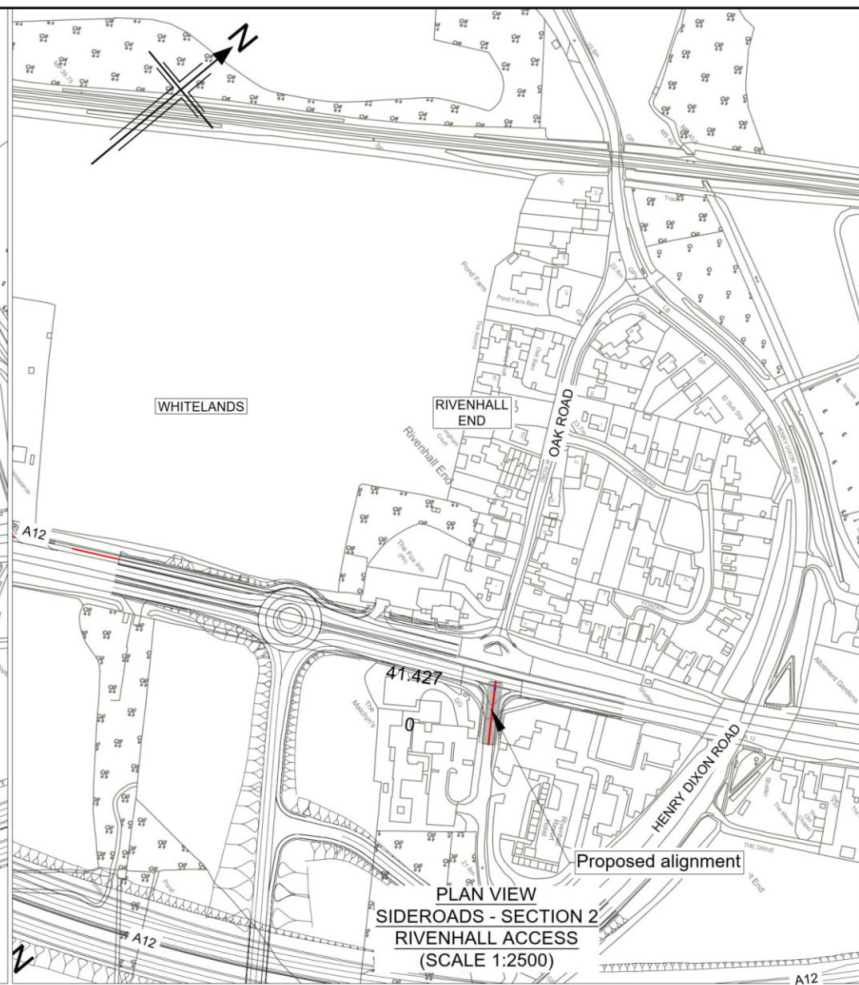
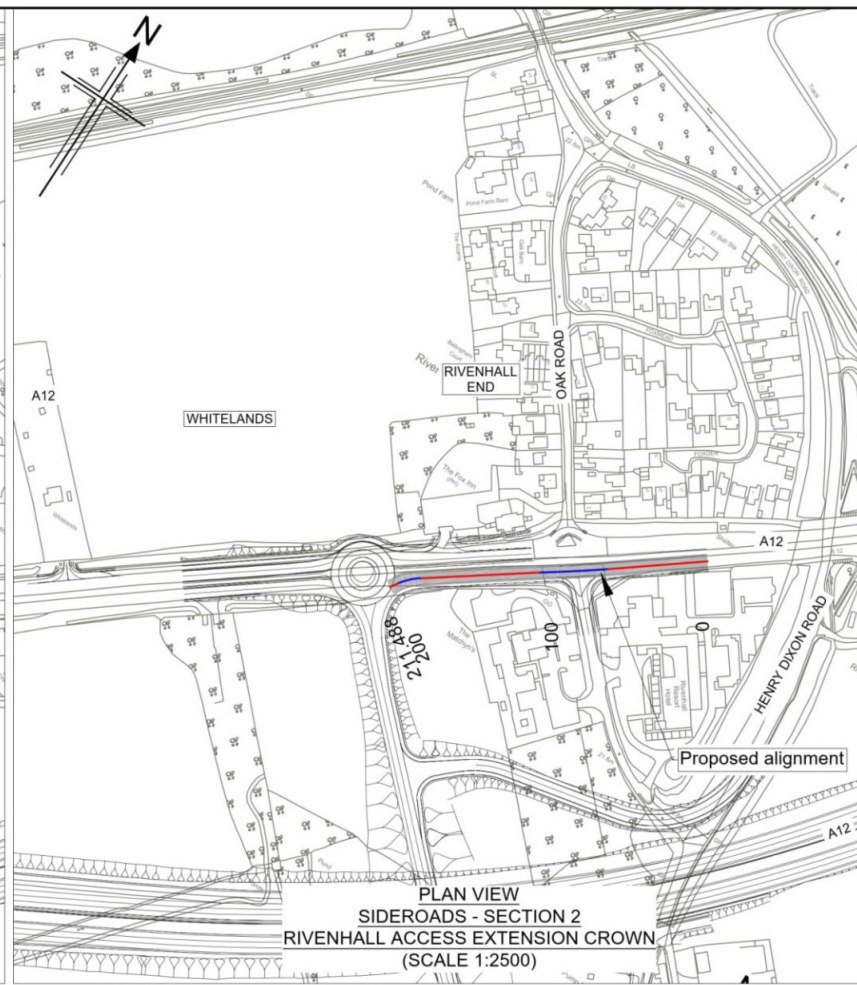
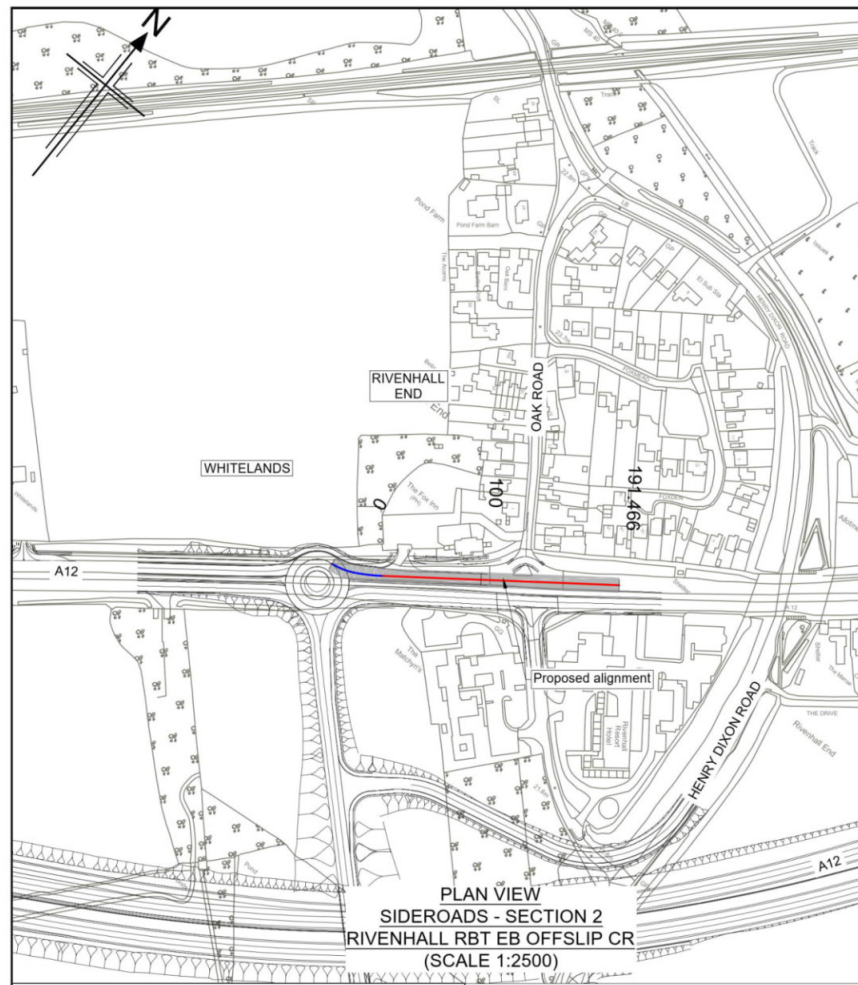
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S2 SR - DR - C - 0001**

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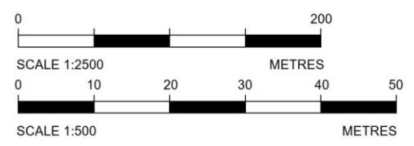
Key

PLAN

- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

PROFILE

- Existing ground
- Proposed ground (constant gradient)
- Proposed ground (vertical curve)



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HP Chainage = 120.920m
Level = 24.428m

Datum: 20.00 mAOD

PROPOSED LEVELS	23.624	23.829	24.038	24.242	24.380	24.428	24.389	24.319	24.200	24.108	
GRADIENT	0.469%	0.830%	1.044%	1.044%	0.909%	0.465%	0.020%	-0.349%	-0.349%	-0.808%	
EXISTING LEVELS	23.664	23.805	24.014	24.182	24.301	24.381	24.411	24.392	24.324	24.200	
LEVEL DIFFERENCE	-0.181	-0.186	-0.145	-0.059	-0.001	0.018	-0.003	-0.004	0.000	0.000	
HORIZONTAL	R=40.000m L=10.000m		R=150.000m L=156.215m		R=2000.000m L=11.510		R=4500.000m L=62.683		R=3500.000m L=16.084		
VERTICAL	G=0.469% L=2.994		G=1.044% L=49.650		G=-0.349% L=24.623		G=-0.349% L=14.138		G=-0.808% L=14.138		
SUPERELEVATION											
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	191.47

**LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL RBT EB OFFSLIP CR
(SCALE H=1:2500, V=1:500)**

HP Chainage = 114.607m
Level = 24.115m
LP Chainage = 192.719m
Level = 23.537m

Datum: 20.00 mAOD

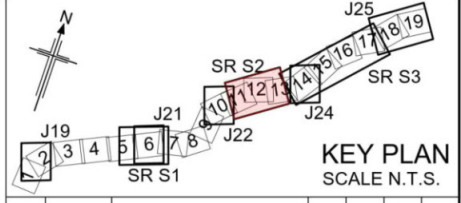
PROPOSED LEVELS	23.202	23.385	23.566	23.746	23.925	24.079	24.110	24.007	23.786	23.578	23.548	23.560
GRADIENT	0.917%	0.917%	0.896%	0.896%	0.896%	0.487%	-0.180%	-0.846%	-1.199%	-0.636%	0.200%	-0.479%
EXISTING LEVELS	23.202	23.394	23.513	23.668	23.866	24.015	24.026	23.925	23.730	23.515	23.193	22.882
LEVEL DIFFERENCE	0.000	-0.009	0.054	0.078	0.059	0.064	0.083	0.082	0.056	0.063	0.355	0.678
HORIZONTAL	R=720.000m L=32.970m		R=720.000m L=66.776m		R=720.000m L=23.781m		R=723.500m L=12.179m		R=42.281m L=15.299m		R=42.281m L=15.299m	
VERTICAL	G=0.917% L=30.446		G=0.896% L=62.613		G=0.896% L=56.658		G=-1.199% L=18.182		G=-0.200% L=13.208		G=-0.479% L=1.562	
SUPERELEVATION												
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	211.49

**LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL ACCESS
EXTENSION CROWN
(SCALE H=1:2500, V=1:500)**

Datum: 20.00 mAOD

PROPOSED LEVELS	23.661	23.736	23.898							
GRADIENT	0.424%	0.424%	3.218%							
EXISTING LEVELS	23.661	23.725	23.845							
LEVEL DIFFERENCE	0.000	0.011	0.053							
HORIZONTAL	R=90.000m L=1.558m		R=36.403m L=3.466m							
VERTICAL	R=906.000m L=4.897		G=1.079% L=1.484							
SUPERELEVATION										
CHAINAGE	00.00	20.00	41.43							

**LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - RIVENHALL ACCESS
(SCALE H=1:2500, V=1:500)**



PO1	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
PO2	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
RIVENHALL
SHEET 2 OF 7**

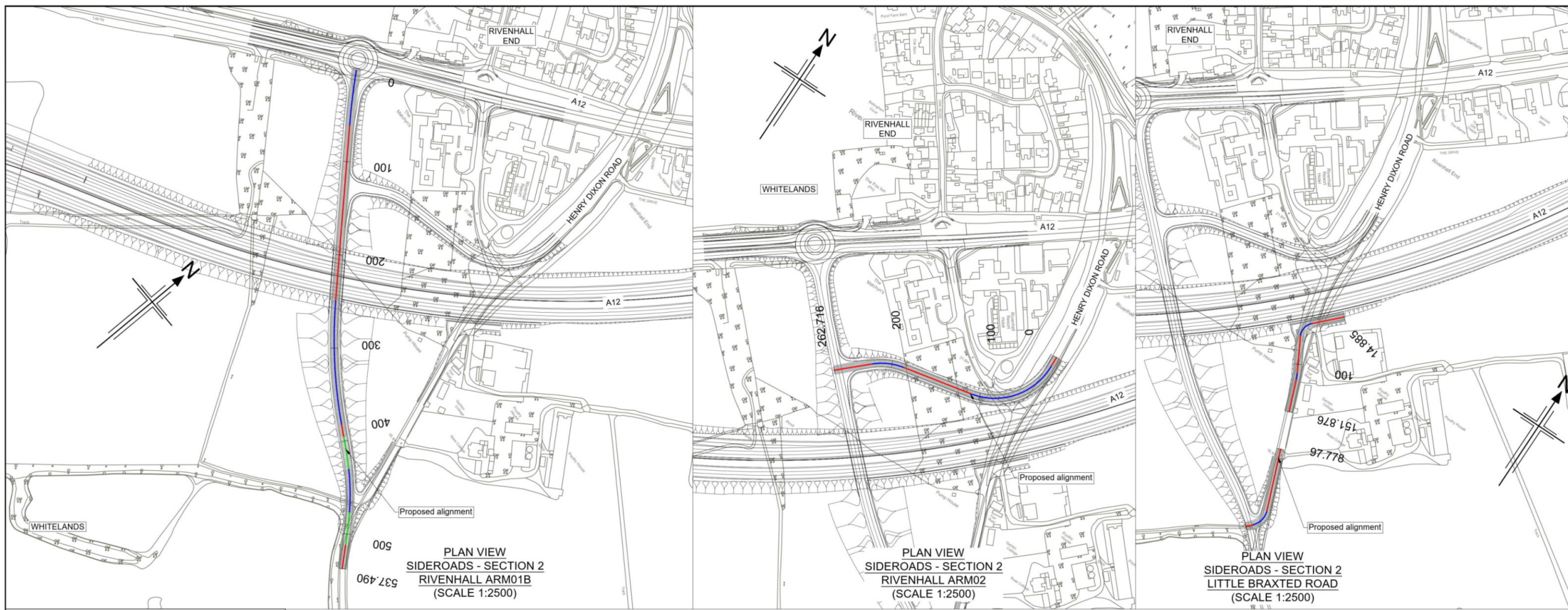
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P02

Drawing number: **HE551497 - JAC - HSR - S2 SR - DR - C - 0002**

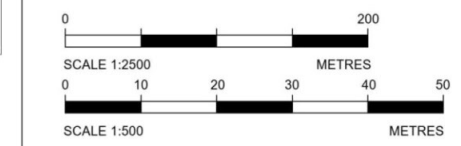
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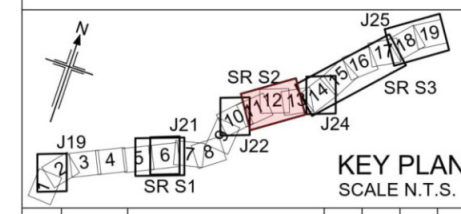
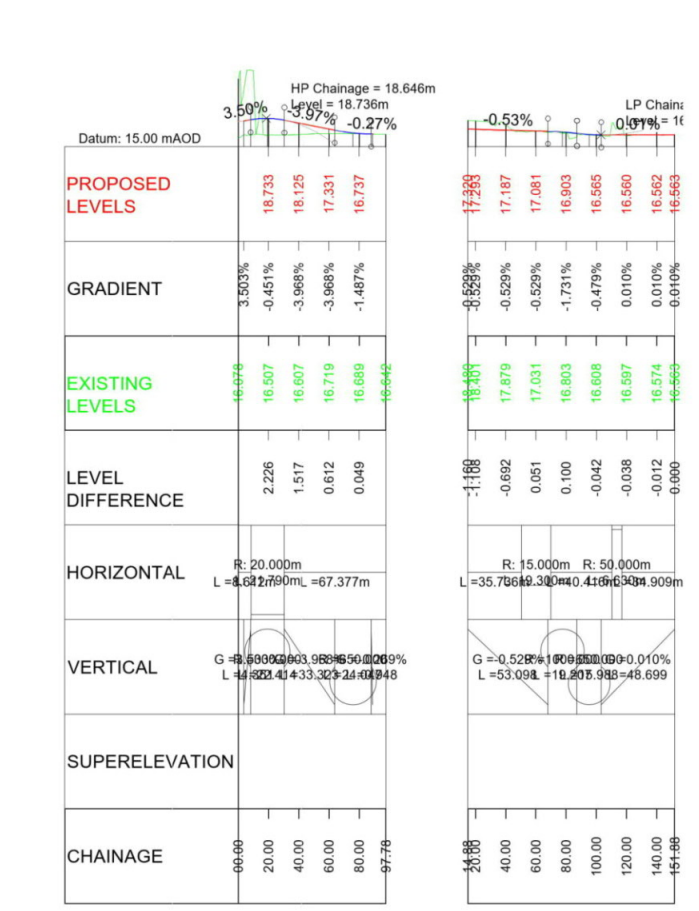
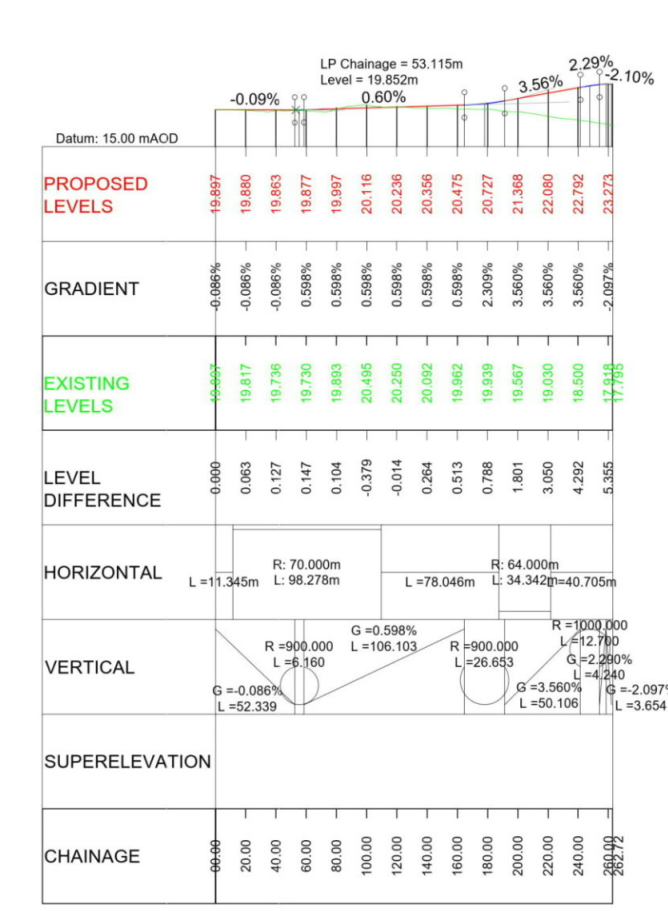
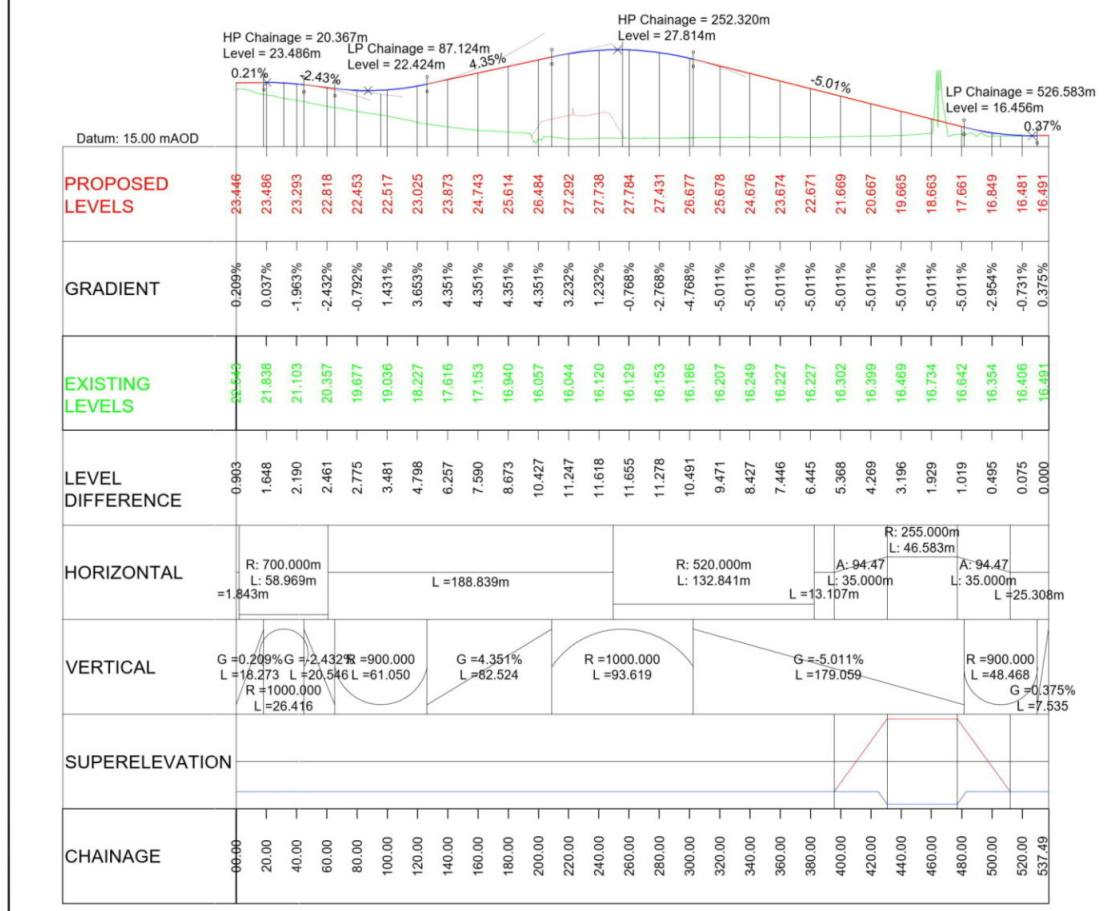


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 - The base mapping is based on Ordnance Survey (O/S) Data.
 - Only written dimension shall be used.
 - For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Cottons Centre, Cottons Lane
 London SE1 2QG. Tel: +44 (0)203 9802000
 www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
RIVENHALL ARM
SHEET 3 OF 7**

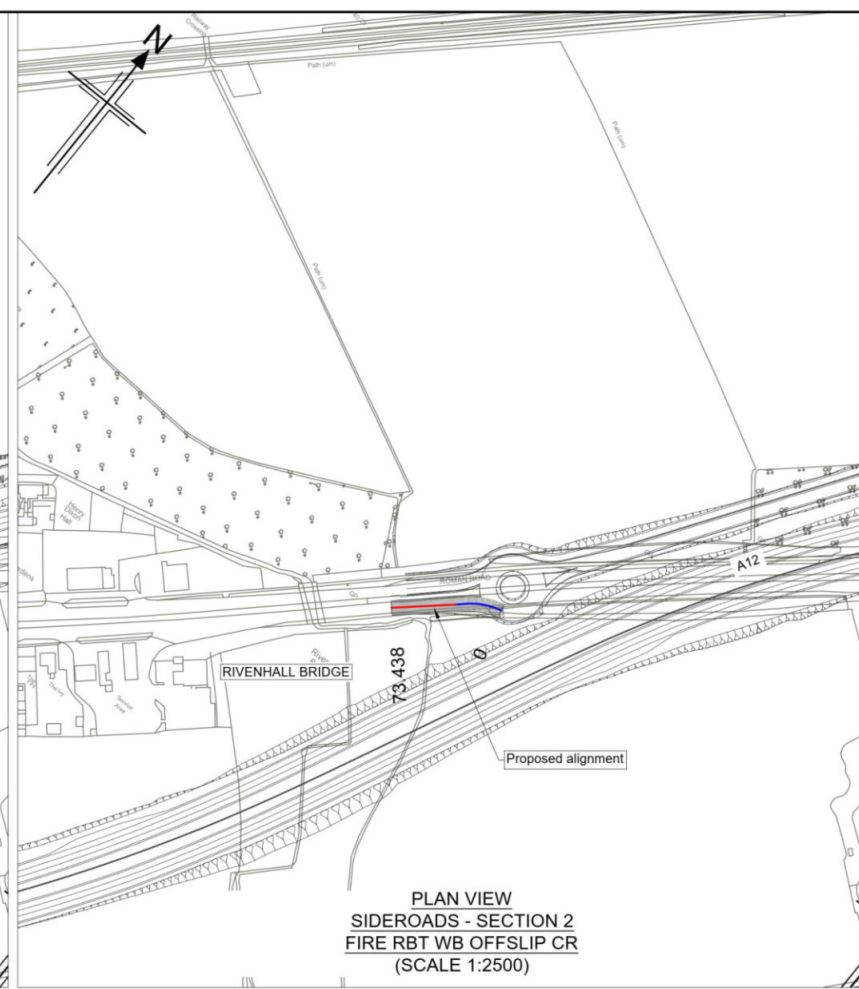
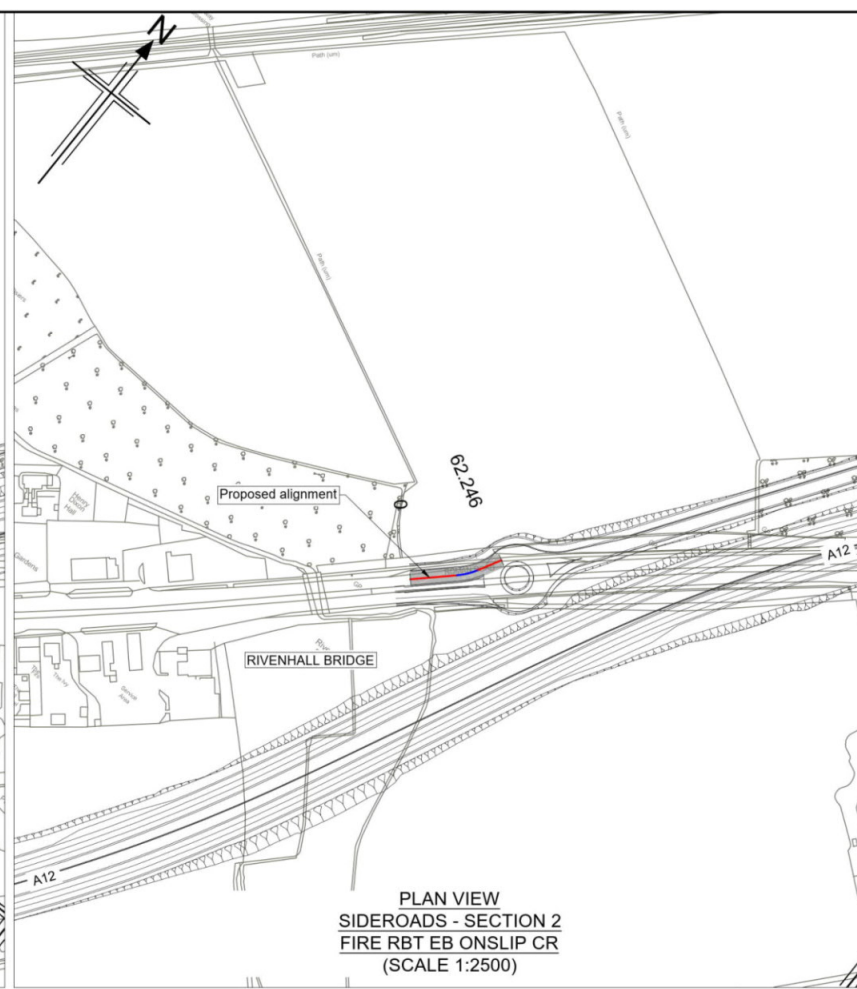
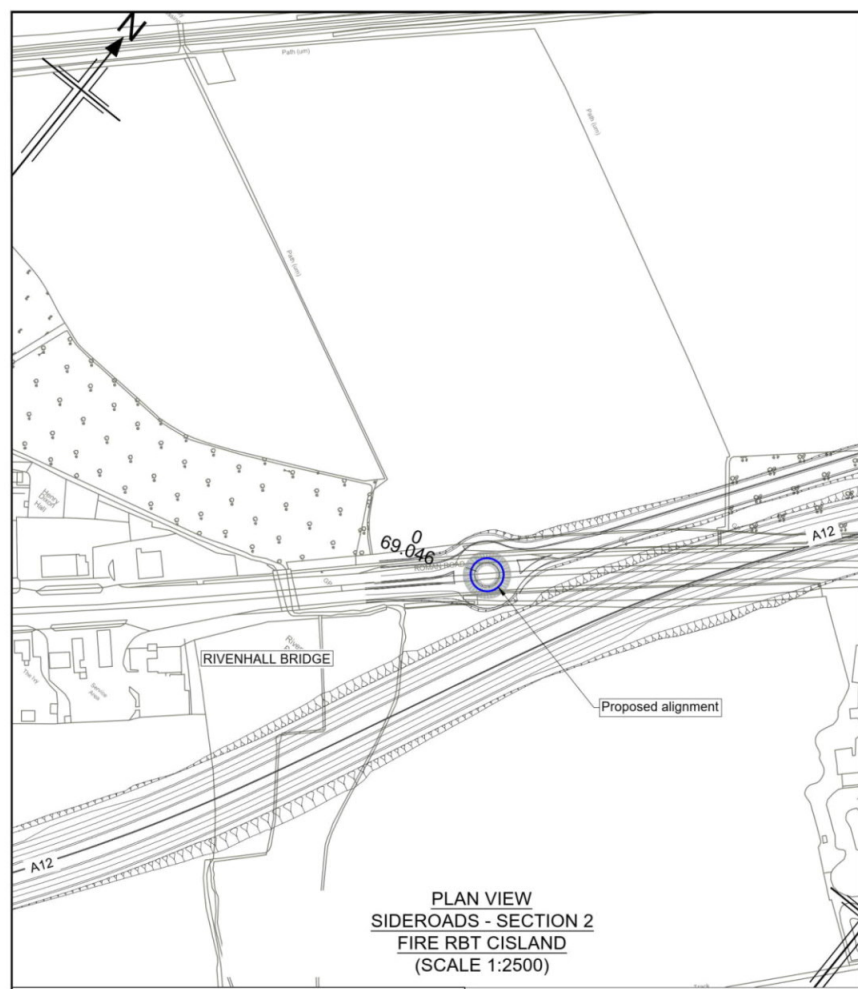
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S2 SR - DR - C - 0003**

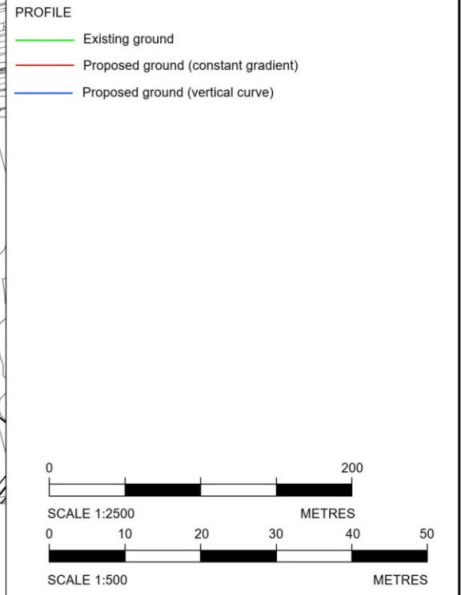
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 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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HP Chainage = 25.828m
Level = 21.604m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	21.544	0.306%	21.544	0.000	R: 10.977m L: 7.371m	G = 0.306% L = 13.595 L = 37.224 R = 4000.000 L = 18.227	
20.00	21.600	0.146%	21.670	-0.071	R: 10.989m L: 61.671m L = 0.004m		
40.00	21.587	-0.150%	21.627	-0.040			
60.00	21.557	-0.150%	21.622	-0.065			
69.05	21.544	-0.150%	21.544	0.000			

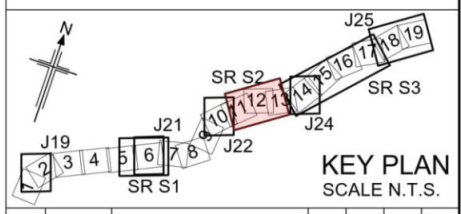
LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE RBT CISLAND
(SCALE H=1:2500, V=1:500)

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	21.376	0.182%	21.376	0.000	R: 45.241m L: 14.419m	G = -0.182% L = 29.357 L = 5.385 R = 3000.000 L = 4.900 G = 0.018% L = 16.647	
20.00	21.414	0.182%	21.409	0.005			
40.00	21.437	0.018%	21.428	0.010	L = 31.081m L = 16.746m		
60.00			21.534				
69.05			21.604				

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE RBT EB ONSLIP CR
(SCALE H=1:2500, V=1:500)

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	21.509	-0.279%	21.493	0.016	R: 45.737m L: 24.137m	G = -0.279% L = 3.713 L = 28.925 G = -0.676% L = 20.211 R = 10000.000 L = 20.554	
20.00	21.389	-0.676%	21.222	0.166	R: 277.850m L: 6.724m		
40.00	21.266	-0.515%	21.198	0.068	L = 42.577m		
60.00	21.171	-0.471%	21.164	0.007			
73.44			21.108				

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE RBT WB OFFSLIP CR
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
FIRE RBT
SHEET 4 OF 7**

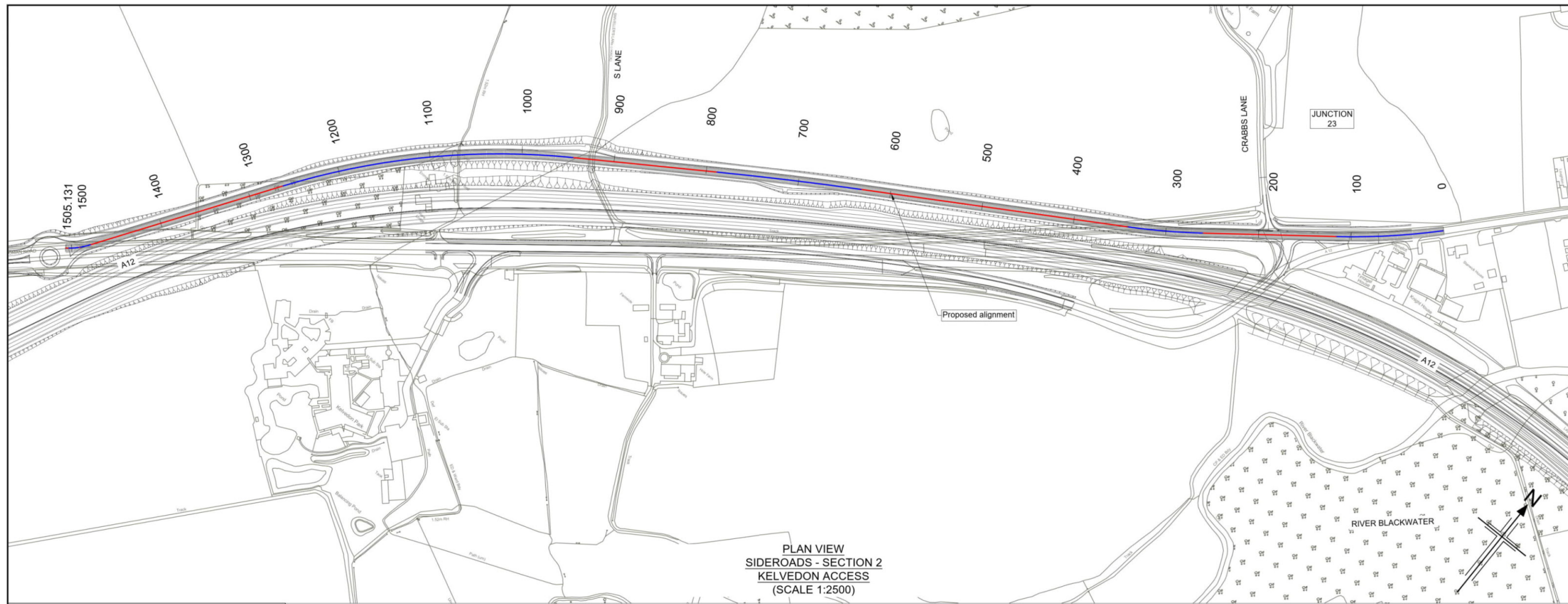
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P02

Drawing number: **HE551497 - JAC - HSR - S2 SR - DR - C - 0004**

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PLAN VIEW
SIDEROADS - SECTION 2
KELVEDON ACCESS
(SCALE 1:2500)

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 4. Only written dimension shall be used.
 5. For Sheet Layout Plan refer to:
HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

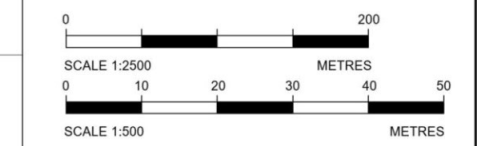
Key

PLAN

- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

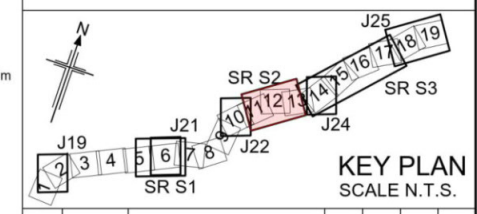
PROFILE

- Existing ground
- Proposed ground (constant gradient)
- Proposed ground (vertical curve)



CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
0+000	21.853	1.022%	21.748	-0.037	L=0.516m	G=1.022% L=51.104	
20.000	22.057	1.022%	21.889	0.002	R: 720.000m L: 115.889m	R=3000.000 L=33.679	
40.000	22.261	1.022%	22.055	0.039			
60.000	22.503	1.518%	22.222	0.079			
80.000	22.873	2.144%	22.423	0.209			
100.000	23.301	2.144%	22.663	0.340			
120.000	23.730	2.144%	22.961	0.280			
140.000	24.237	3.026%	23.433	0.280			
160.000	24.866	3.156%	23.957	0.255			
180.000	25.497	3.156%	24.611	0.305			
200.000	26.129	3.156%	25.192	0.301			
220.000	26.760	3.156%	25.828	0.282			
240.000	27.391	3.156%	26.477	0.249			
260.000	28.022	3.156%	27.142	0.092			
280.000	28.653	3.156%	27.930	0.209			
300.000	29.284	2.633%	28.444	0.209			
320.000	29.915	1.966%	28.653	0.390			
340.000	30.546	1.300%	28.974	0.730			
360.000	31.177	0.633%	29.241	0.789			
380.000	31.808	-0.034%	29.251	0.972			
400.000	32.439	-0.500%	29.274	1.009			
420.000	33.070	-0.500%	29.300	0.916			
440.000	33.701	-0.500%	29.338	0.778			
460.000	34.332	-0.500%	29.359	0.657			
480.000	34.963	-0.500%	29.209	0.707			
500.000	35.594	-0.500%	29.146	0.670			
520.000	36.225	-0.500%	29.251	0.465			
540.000	36.856	-0.500%	29.337	0.279			
560.000	37.487	-0.500%	29.649	0.367			
580.000	38.118	-0.500%	29.673	0.243			
600.000	38.749	-0.500%	29.689	0.127			
620.000	39.380	-0.500%	29.655	0.060			
640.000	40.011	-0.500%	29.619	-0.003			
660.000	40.642	-0.500%	29.518	-0.003			
680.000	41.273	-0.766%	29.374	0.032			
700.000	41.904	-1.433%	29.141	0.044			
720.000	42.535	-2.100%	28.713	0.219			
740.000	43.166	-2.236%	28.139	0.648			
760.000	43.797	-2.236%	27.517	1.153			
780.000	44.428	-1.352%	26.940	1.670			
800.000	45.059	-0.352%	26.571	1.955			
820.000	45.690	0.539%	26.446	2.744			
840.000	46.321	0.539%	26.685	3.080			
860.000	46.952	0.539%	27.085	3.039			
880.000	47.583	0.539%	27.456	2.662			
900.000	48.214	0.539%	27.792	2.262			
920.000	48.845	0.539%	28.071	1.997			
940.000	49.476	0.331%	28.116	1.953			
960.000	50.107	-0.336%	28.015	2.554			
980.000	50.738	-1.002%	27.787	1.148			
1000.000	51.369	-1.689%	27.456	0.989			
1020.000	51.999	-2.042%	26.989	0.945			
1040.000	52.630	-2.042%	26.416	1.056			
1060.000	53.261	-2.042%	25.842	1.210			
1080.000	53.891	-2.042%	25.268	1.342			
1100.000	54.522	-2.042%	24.694	1.416			
1120.000	55.153	-1.978%	24.120	1.078			
1140.000	55.783	-0.978%	23.546	0.425			
1160.000	56.414	0.022%	23.072	0.181			
1180.000	57.045	0.609%	22.598	0.409			
1200.000	57.675	0.597%	22.124	0.246			
1220.000	58.306	-1.264%	21.650	-0.308			
1240.000	58.937	-1.930%	21.176	-0.689			
1260.000	59.567	-2.597%	20.702	-1.109			
1280.000	60.198	-2.470%	20.228	-1.176			
1300.000	60.829	-1.470%	19.754	-0.415			
1320.000	61.459	-0.470%	19.280	-0.273			
1340.000	62.090	0.530%	18.806	-0.079			
1360.000	62.721	0.677%	18.332	-0.007			
1380.000	63.351		17.858				
1400.000	63.982						
1420.000	64.613						
1440.000	65.243						
1460.000	65.874						
1480.000	66.505						
1500.000	67.135						

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - KELVEDON ACCESS
(SCALE H=1:2500, V=1:500)



KEY PLAN
SCALE N.T.S.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	26/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
P03	26/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **JACOBS**
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London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
KELVEDON ACCESS
SHEET 5 OF 7**

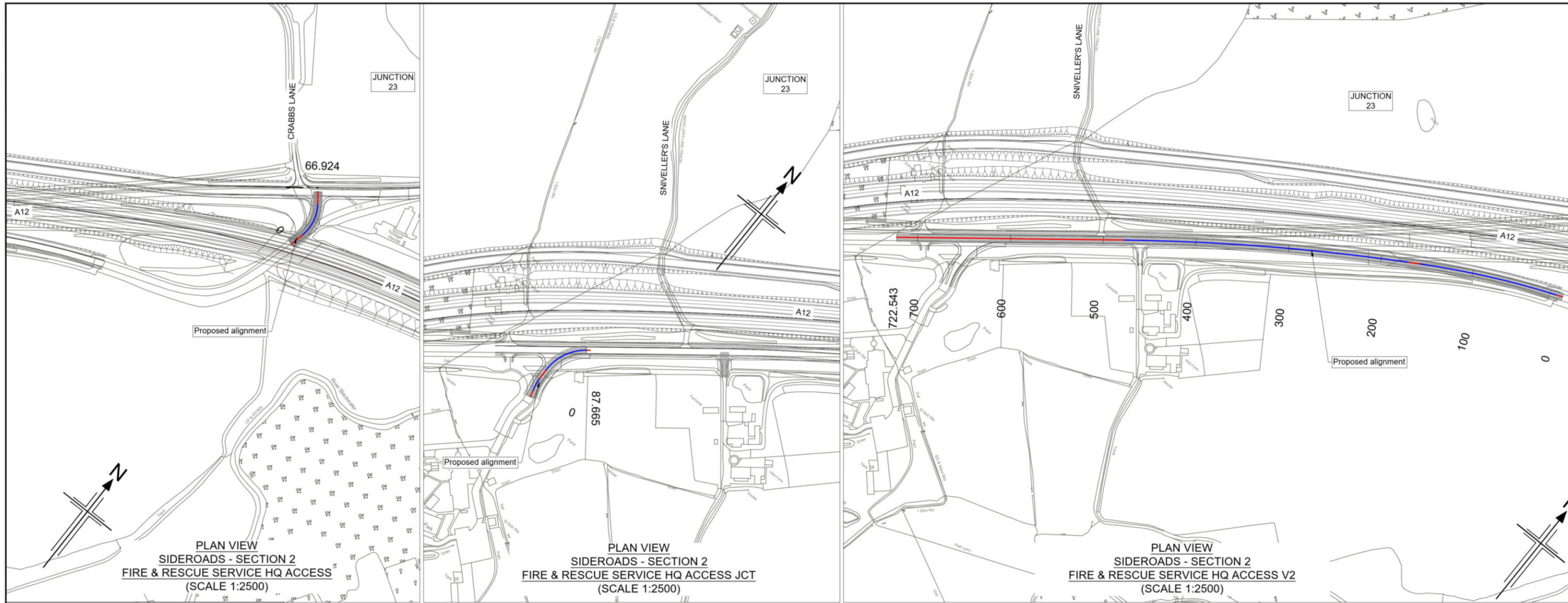
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
JACOBS No.	B36601D1
Client no.	HE551497

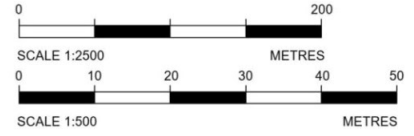
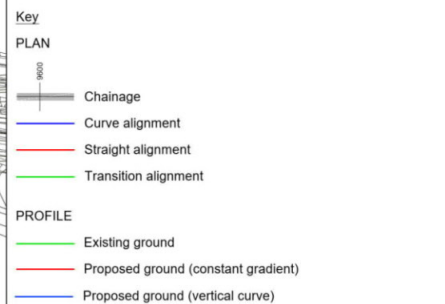
HE551497 - JAC - HSR - S2 SR - DR - C - 0005

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C:\pwworking\jacobs_uk_highways_sas\hhowes\15051497-JAC-HSR-S2_SR-DR-C-0005.dwg - 26/05/2021 08:52:38 - A1Frame - Howes1



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 - For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.



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LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE & RESCUE SERVICE HQ ACCESS
(SCALE H=1:2500, V=1:500)

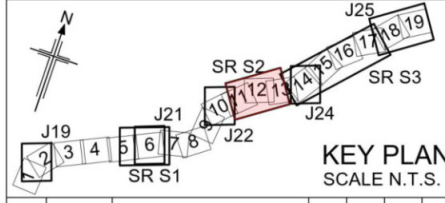
CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	GRADIENT	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	25.692	24.106	-0.282%	0.031	R=44.000m L=15.855m	G=-0.282% L=39.523	
20.00	24.074	24.047	-0.282%	0.031	L=13.271m	G=-1.512% L=23.478	
40.00	23.732	23.744	-1.512%	0.044		G=2.488% L=3.650	
60.00	23.700	23.744	-1.512%	0.120		G=1.512% L=23.478	
66.92	23.660	23.766	2.488%				

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE & RESCUE SERVICE HQ ACCESS V2 JCT
(SCALE H=1:2500, V=1:500)

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	GRADIENT	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	23.206	23.206	1.917%	0.000	R=53.600m L=7.437m	G=1.917% L=15.192	
20.00	23.591	23.602	2.451%	0.011	R=15.455m L=10.771m	G=1.453% L=11.447	
40.00	24.114	24.172	2.532%	0.057	L=3.800m	R=900.000 L=14.334	
60.00	24.717	24.580	1.548%	-0.137		R=2033.028 L=35.295	
80.00	24.850	24.854	0.994%	0.004		G=0.994% L=11.396	
87.66	24.914	24.950	0.994%	0.017			

LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - FIRE & RESCUE SERVICE HQ ACCESS V2
(SCALE H=1:2500, V=1:500)

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	GRADIENT	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	27.467	27.625	0.898%	0.056	L=4.999m L=1.499m L=0.004m	G=-0.898% L=12.997	
20.00	27.794	27.804	1.634%	0.010	R=950.000m L=151.644m	G=1.634% L=56.728	
40.00	28.089	28.131	1.634%	0.042			
60.00	28.327	28.458	1.634%	0.131			
80.00	28.465	28.738	1.075%	0.253			
100.00	28.587	28.886	0.408%	0.299			
120.00	28.627	28.901	-0.256%	0.274			
140.00	28.654	28.766	-0.783%	0.132			
160.00	28.603	28.630	-0.783%	0.027			
180.00	28.444	28.473	-0.783%	0.029			
200.00	28.287	28.316	-0.783%	0.029			
220.00	28.155	28.160	-0.783%	0.005			
240.00	28.022	28.003	-0.783%	-0.019			
260.00	27.878	27.847	-0.783%	-0.031			
280.00	27.753	27.690	-0.783%	-0.063			
300.00	27.566	27.534	-0.783%	-0.033			
320.00	27.419	27.377	-0.783%	-0.042			
340.00	27.269	27.221	-0.783%	-0.048			
360.00	27.076	27.064	-0.783%	-0.012			
380.00	26.860	26.906	-0.876%	0.046			
400.00	26.681	26.731	-0.876%	0.070			
420.00	26.465	26.555	-0.876%	0.090			
440.00	26.272	26.379	-0.876%	0.107			
460.00	26.101	26.204	-0.876%	0.103			
480.00	25.920	26.028	-0.876%	0.108			
500.00	25.740	25.853	-0.876%	0.113			
520.00	25.554	25.677	-0.876%	0.123			
540.00	25.389	25.502	-0.876%	0.133			
560.00	25.215	25.326	-0.876%	0.112			
580.00	25.089	25.151	-0.876%	0.082			
600.00	24.938	24.975	-0.876%	0.037			
620.00	24.793	24.800	-0.876%	0.007			
640.00	24.632	24.624	-0.876%	-0.008			
660.00	24.467	24.449	-0.876%	-0.016			
680.00	24.296	24.273	-0.876%	-0.023			
700.00	24.107	24.098	-0.876%	-0.009			
720.00	23.920	23.922	-0.876%	-0.004			
722.54	23.900	23.900	-0.876%	0.000			



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
P03	26/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Coltons Centre, Coltons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE**
SIDEROADS SECTION 2 - ESSEX
COUNTY FIRE & RESCUE SERVICE
HQ ACCESS - SHEET 6 OF 7

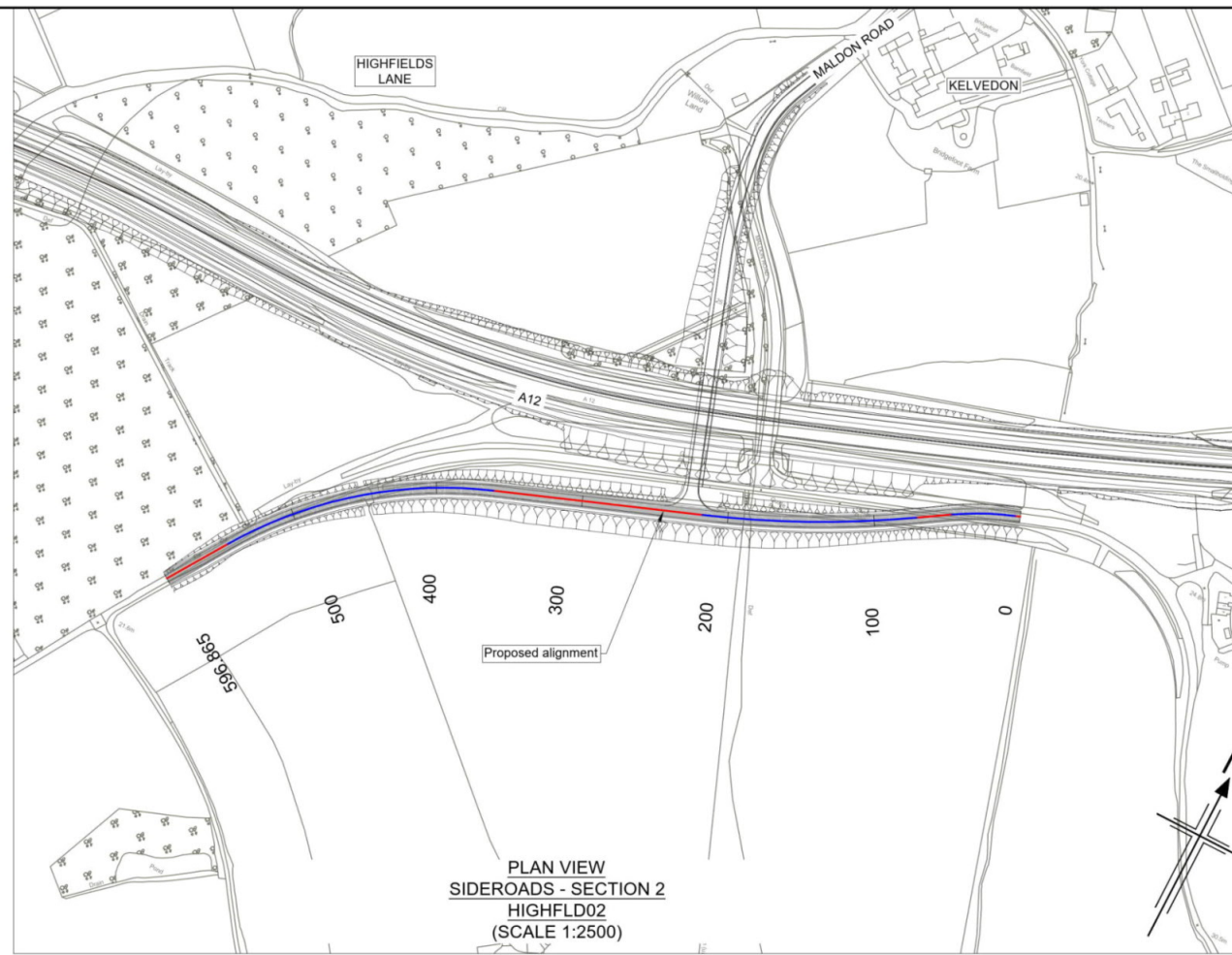
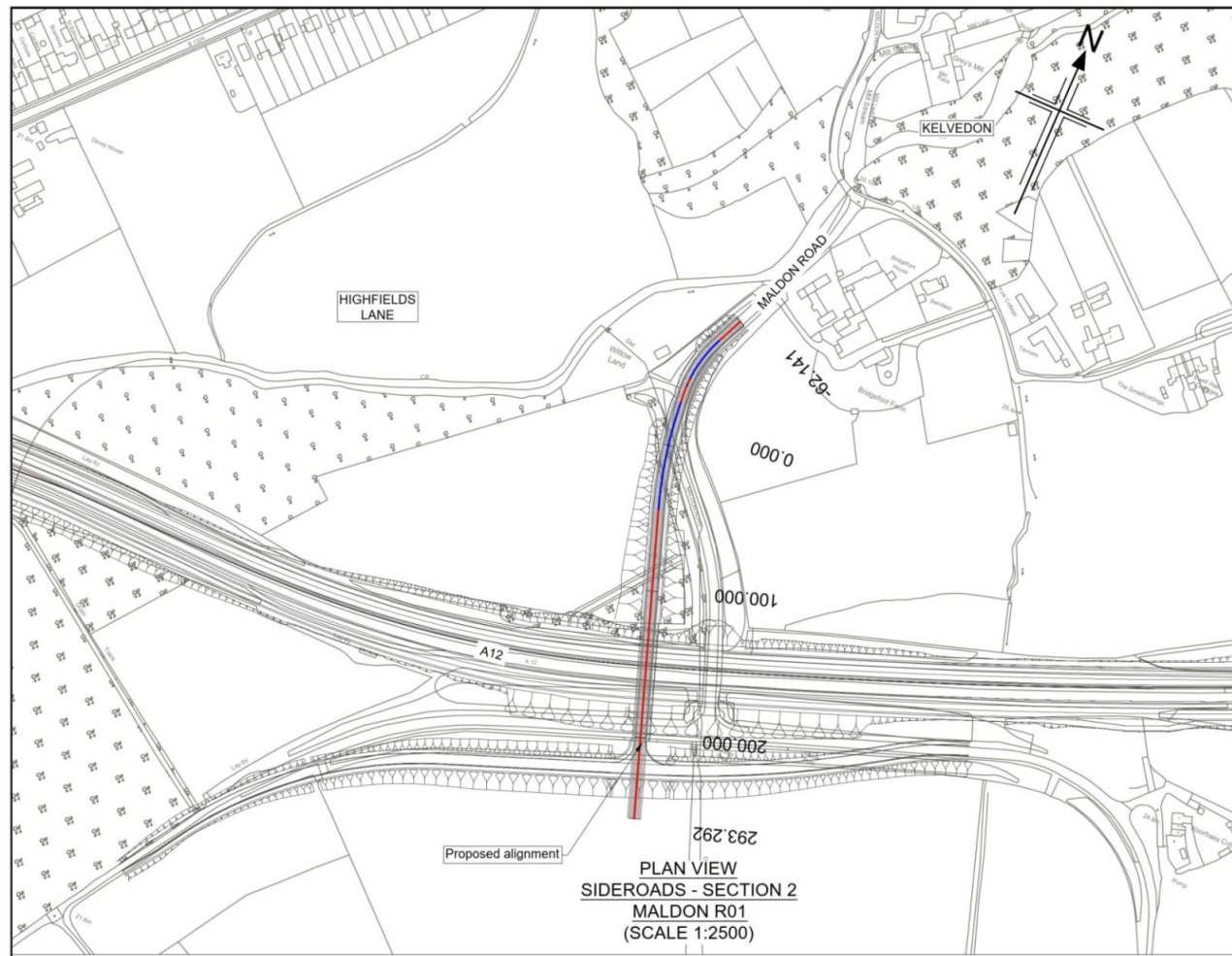
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P03

Drawing number: HE551497 - JAC - HSR - S2 SR - DR - C - 0006
Originator: JAC
Volume: -DR- C - 0006

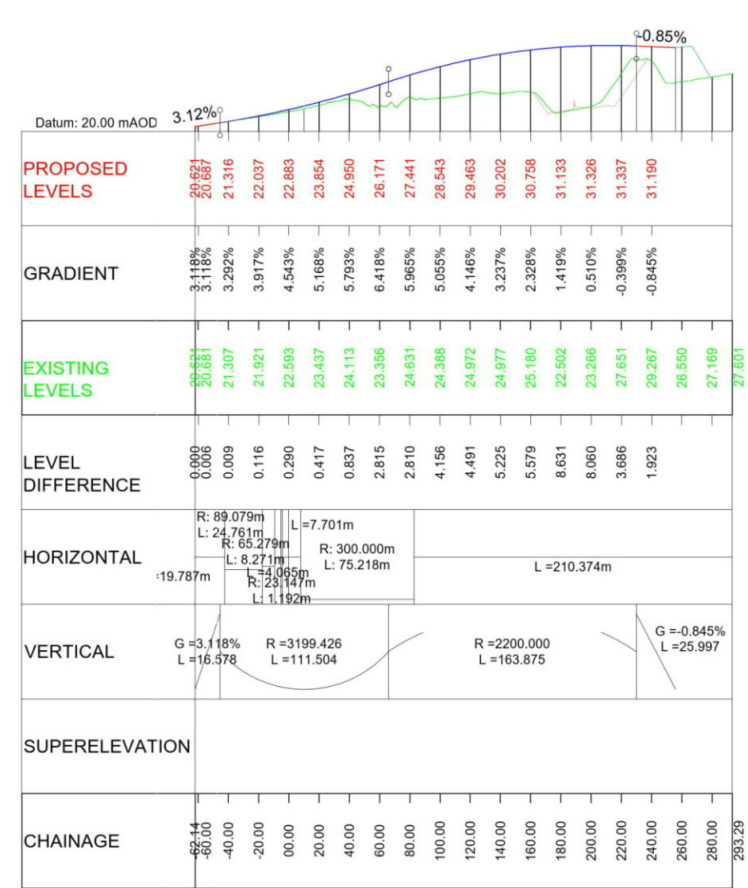
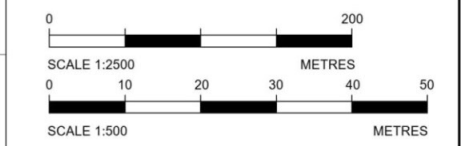
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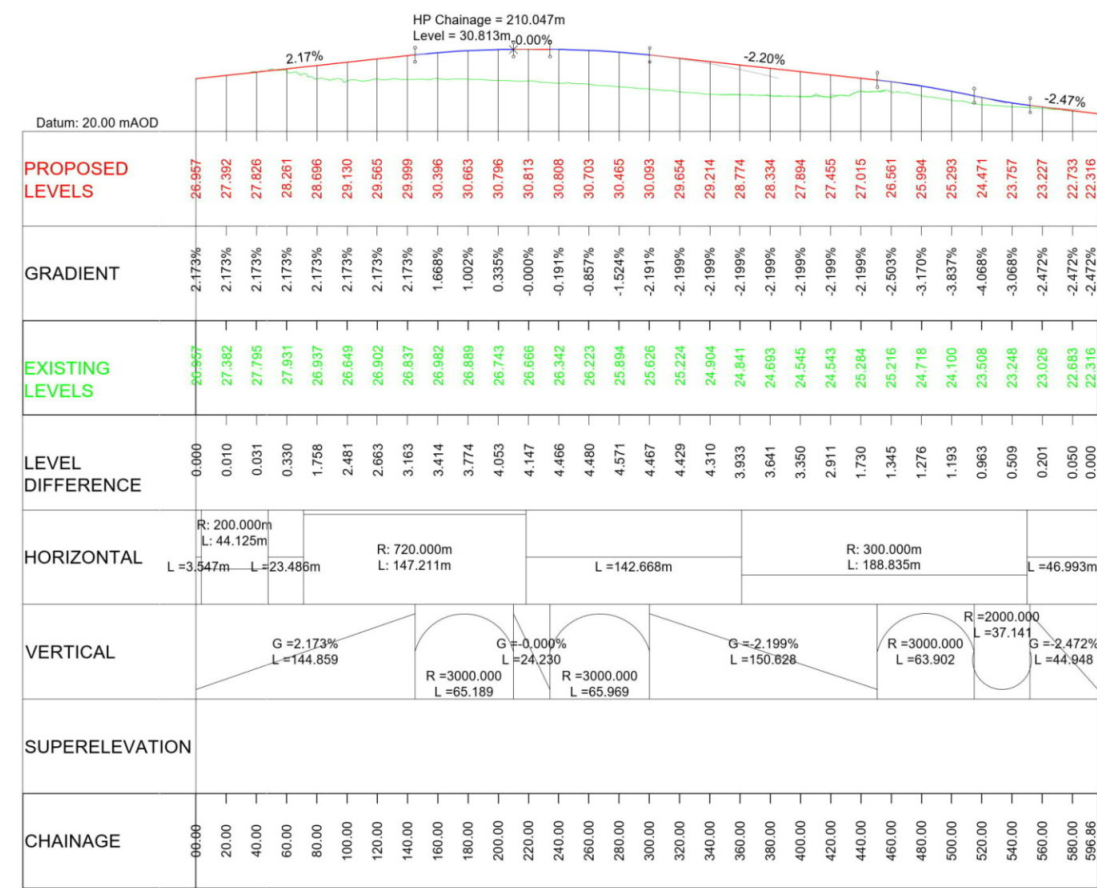


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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

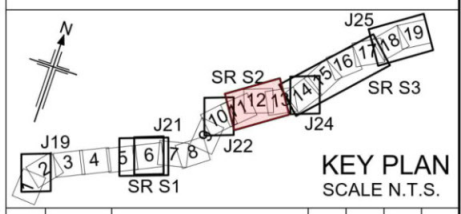
- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



**LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - MALDON R01
(SCALE H=1:2500, V=1:500)**



**LONGITUDINAL SECTION
SIDEROADS - SECTION 2 - HIGHFLD02
(SCALE H=1:2500, V=1:500)**



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	ST	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Cottons Centre, Cottons Lane
 London SE1 2QG. Tel: +44 (0)203 9802000
 www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

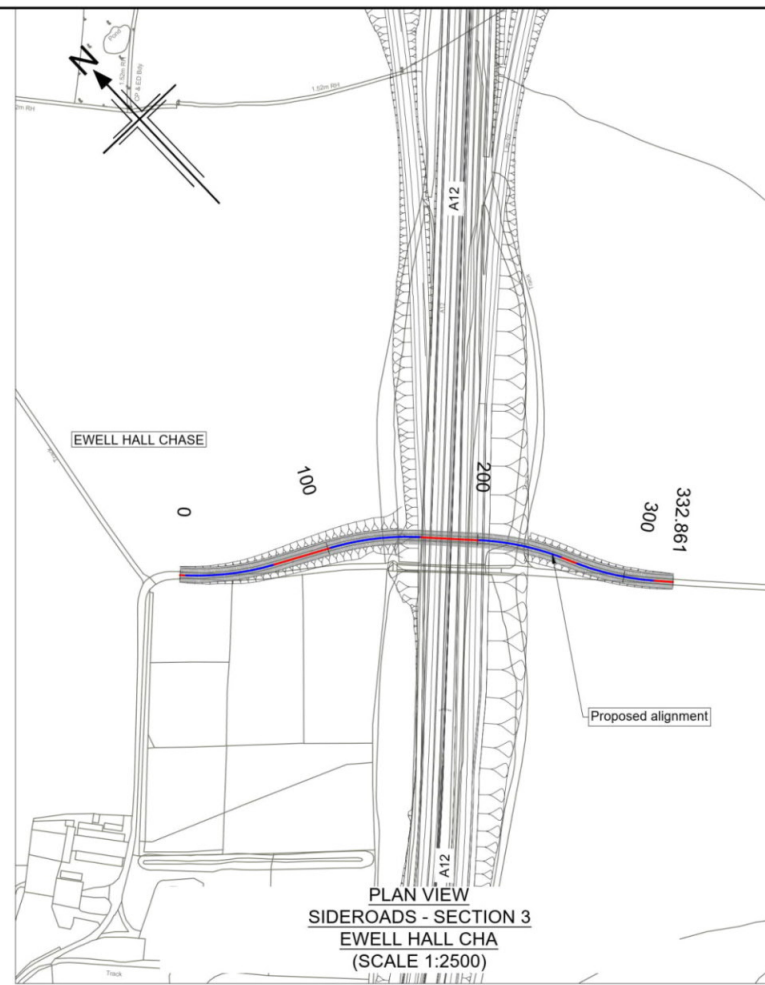
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 2
MALDON
SHEET 7 OF 7**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

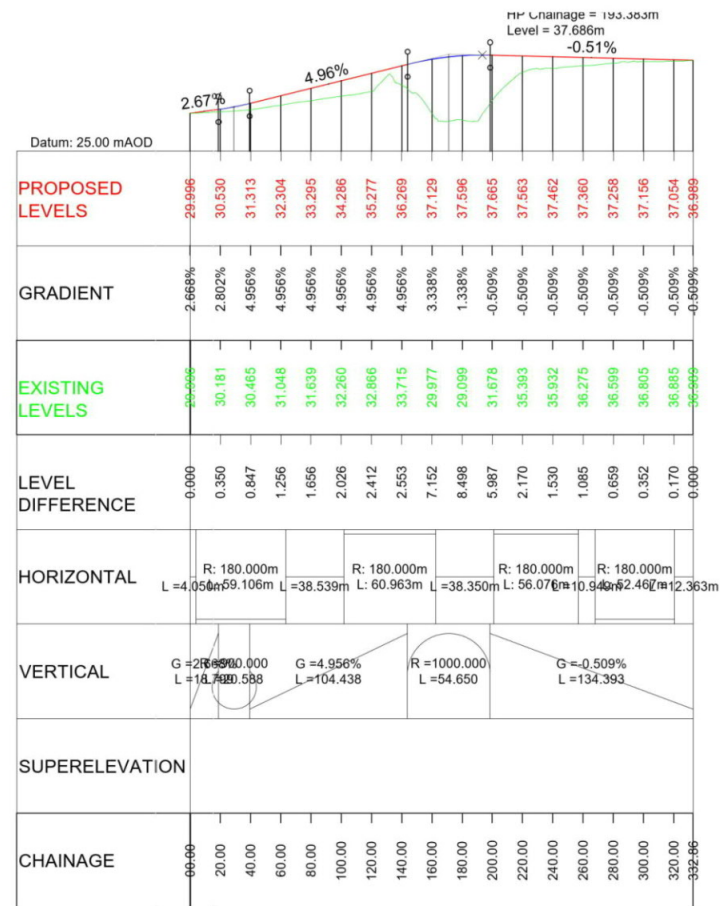
State Code: Preliminary
 Project Stage: PCF3
 Scale: 1:2500
 Jacobs No: B36601D1
 Client no: HE551497

HE551497 - JAC - HSR - S2 SR - DR - C - 0007

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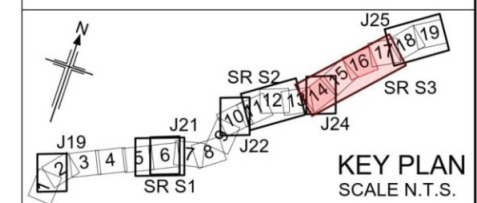
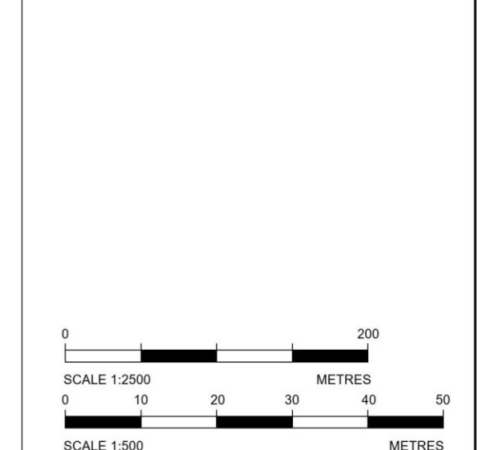
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LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EWELL HALL CHA
(SCALE H=1:2500, V=1:500)

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HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

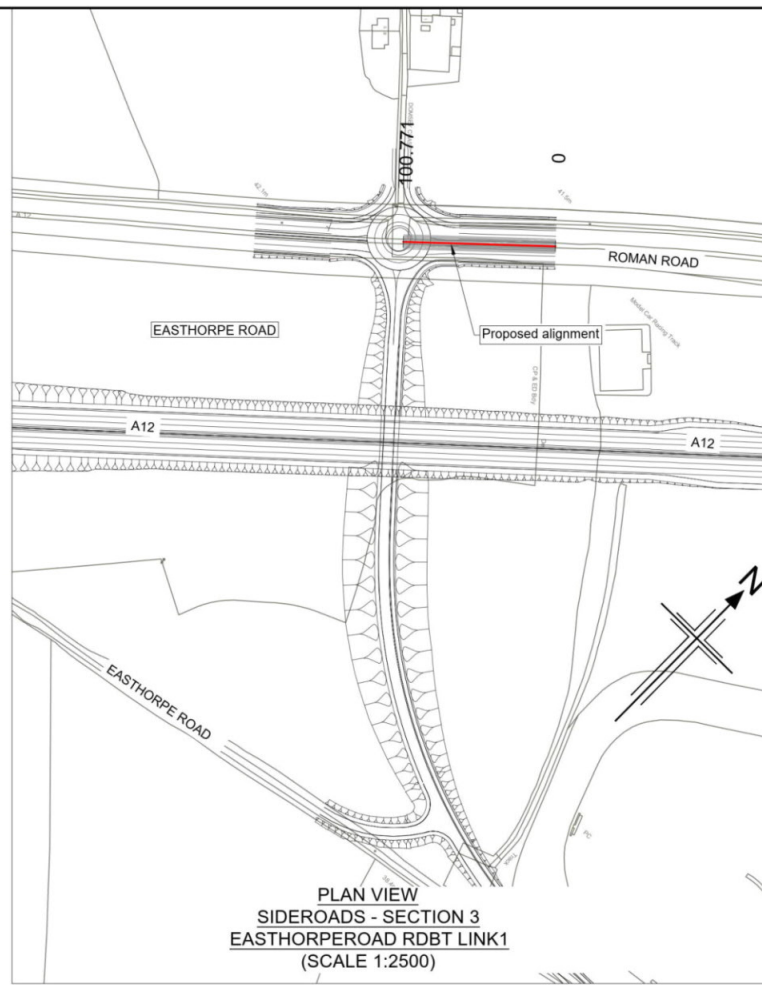
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
EWELLHALL CHASE
SHEET 1 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number	HE551497 - JAC - HSR - S3 SR - DR - C -0001
Originator	JAC
Volume	-DR- C -0001

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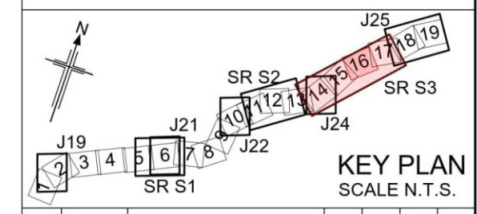
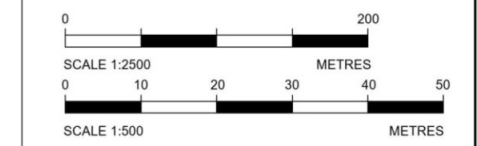
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	0+00	20+00	40+00	60+00	80+00	100+00
PROPOSED LEVELS	41.995	42.169	42.343	42.480	42.495	42.610
GRADIENT	0.871%	0.871%	0.871%	0.076%	0.076%	0.076%
EXISTING LEVELS	41.566	42.070	42.205	42.491	42.502	42.646
LEVEL DIFFERENCE	0.427	0.099	0.138	-0.011	-0.007	0.005
HORIZONTAL	L = 100.771m					
VERTICAL	G = 0.871% L = 85.474		G = 0.076% L = 45.467			
SUPERELEVATION						
CHAINAGE	00+00	20+00	40+00	60+00	80+00	100+00

**LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EASTHORPEROAD RDBT LINK1
(SCALE H=1:2500, V=1:500)**

- Notes**
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 - For Sheet Layout Plan refer to:
HE551497-JAC-HGN-SCHW-DR- C-0028 for Mainline profiles.
HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Cottons Centre, Cottons Lane
 London SE1 2QG. Tel: +44 (0)203 9802000
 www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

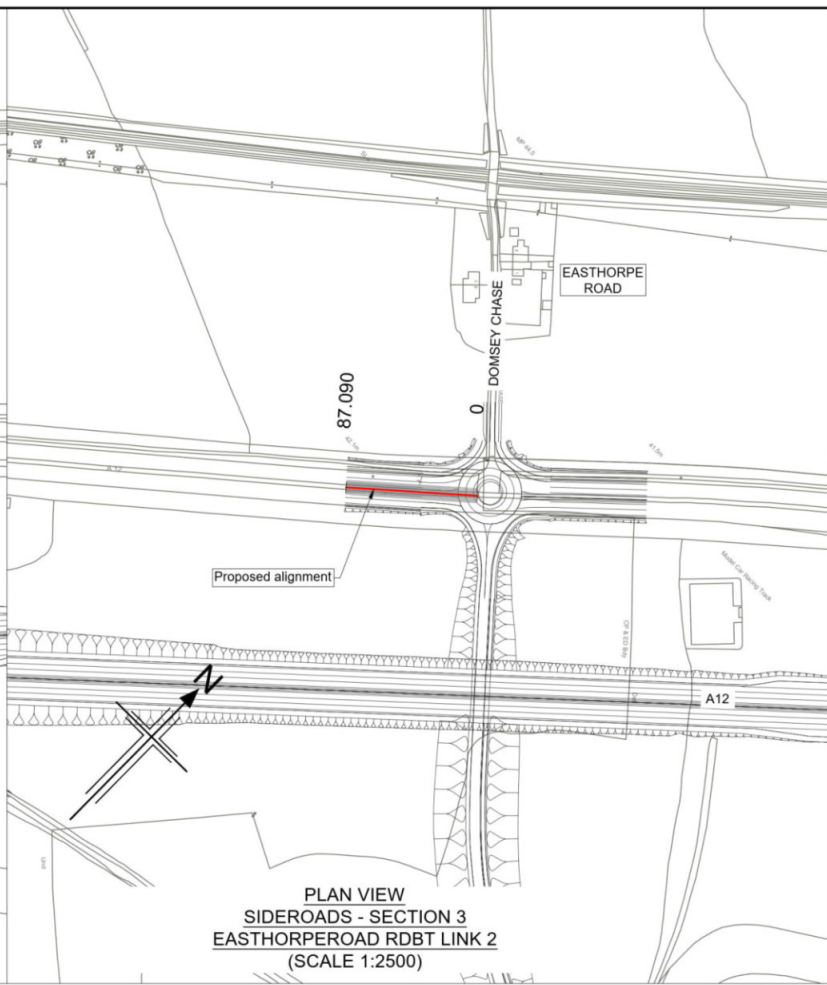
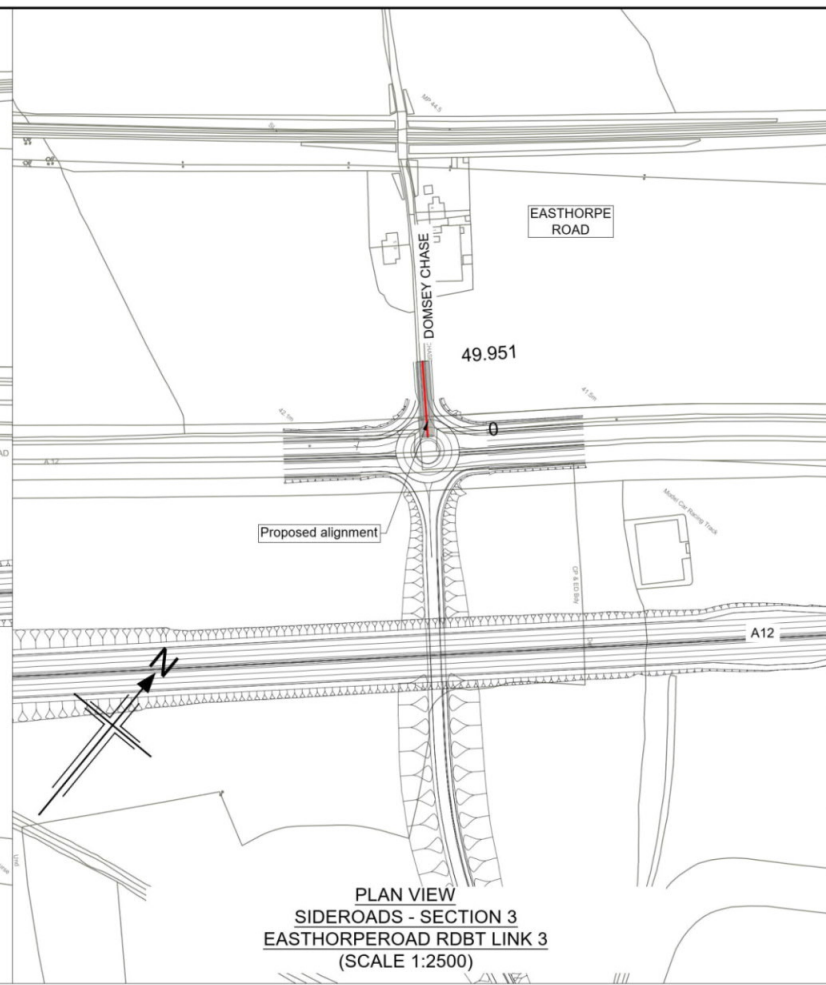
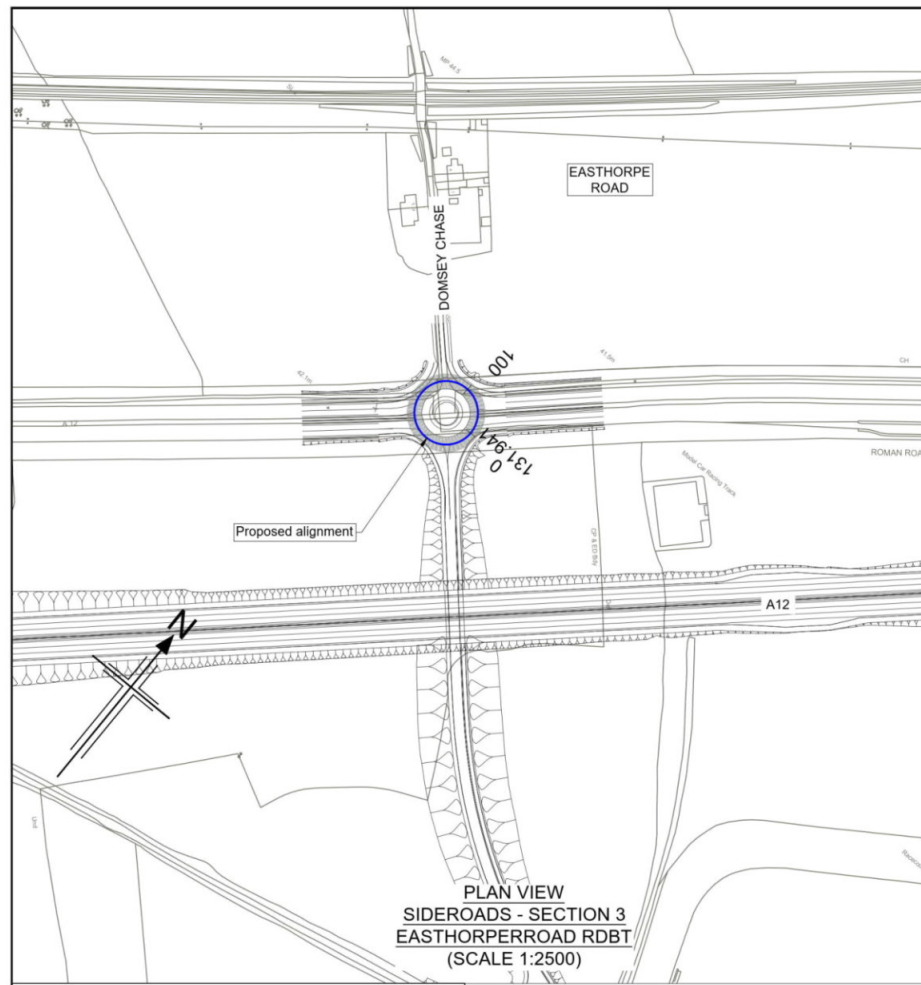
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
EASTHORPE RDBT LINK1
SHEET 2 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S3 SR - DR - C - 0002**

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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

Key

PLAN

- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

PROFILE

- Existing ground
- Proposed ground (constant gradient)
- Proposed ground (vertical curve)

0 10 20 30 40 50
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES

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HP Chainage = 16.680m LP Chainage = 75.440m
Level = 42.835m Level = 42.212m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	42.746	0.947%	42.746	0.000	L = 131.941m	G = 0.947% L = 131.941m	
20.00	42.829	-0.369%	42.814	0.015			
40.00	42.611	-1.276%	42.568	0.043			
60.00	42.356	-1.276%	42.233	0.122			
80.00	42.228	0.702%	42.166	0.061			
100.00	42.415	0.947%	42.339	0.077			
120.00	42.604	0.947%	42.530	0.074			
131.94	42.718	0.947%	42.746	0.000			

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EASTHORPERROAD RDBT
(SCALE H=1:2500, V=1:500)

Datum: 40.00 mAOD 0.16%

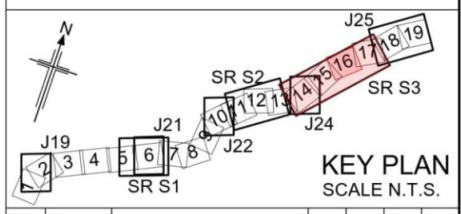
CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	42.305	0.168%	42.305	0.000	L = 49.951m	G = 0.158% L = 86.935	
20.00	42.336	0.158%	42.036	0.300			
40.00	42.368	0.158%	42.191	0.177			
49.95	42.383	0.168%	42.245	0.138			

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EASTHORPERROAD RDBT LINK 3
(SCALE H=1:2500, V=1:500)

Datum: 40.00 mAOD -0.68% 2.13%

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	42.804	-0.680%	42.463	0.367	L = 87.090m	G = -0.680% L = 86.600 L = 87.090	
20.00	42.868	-0.680%	42.372	0.296			
40.00	42.532	-0.680%	42.334	0.199			
60.00	42.396	-0.680%	42.345	0.051			
80.00	42.133	2.133%	42.107	0.063			
87.09	42.183	2.133%	42.183	0.000			

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EASTHORPERROAD RDBT LINK 2
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

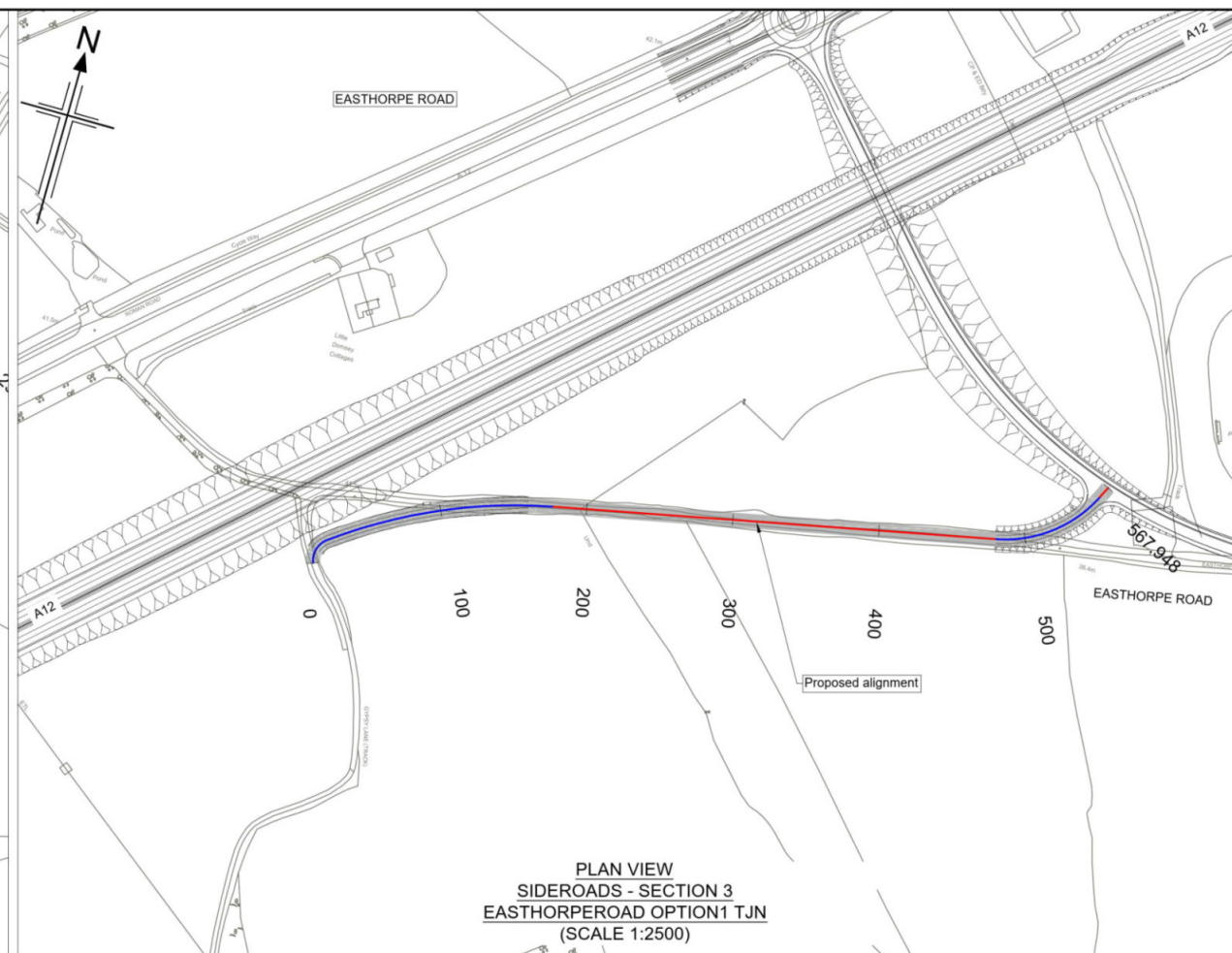
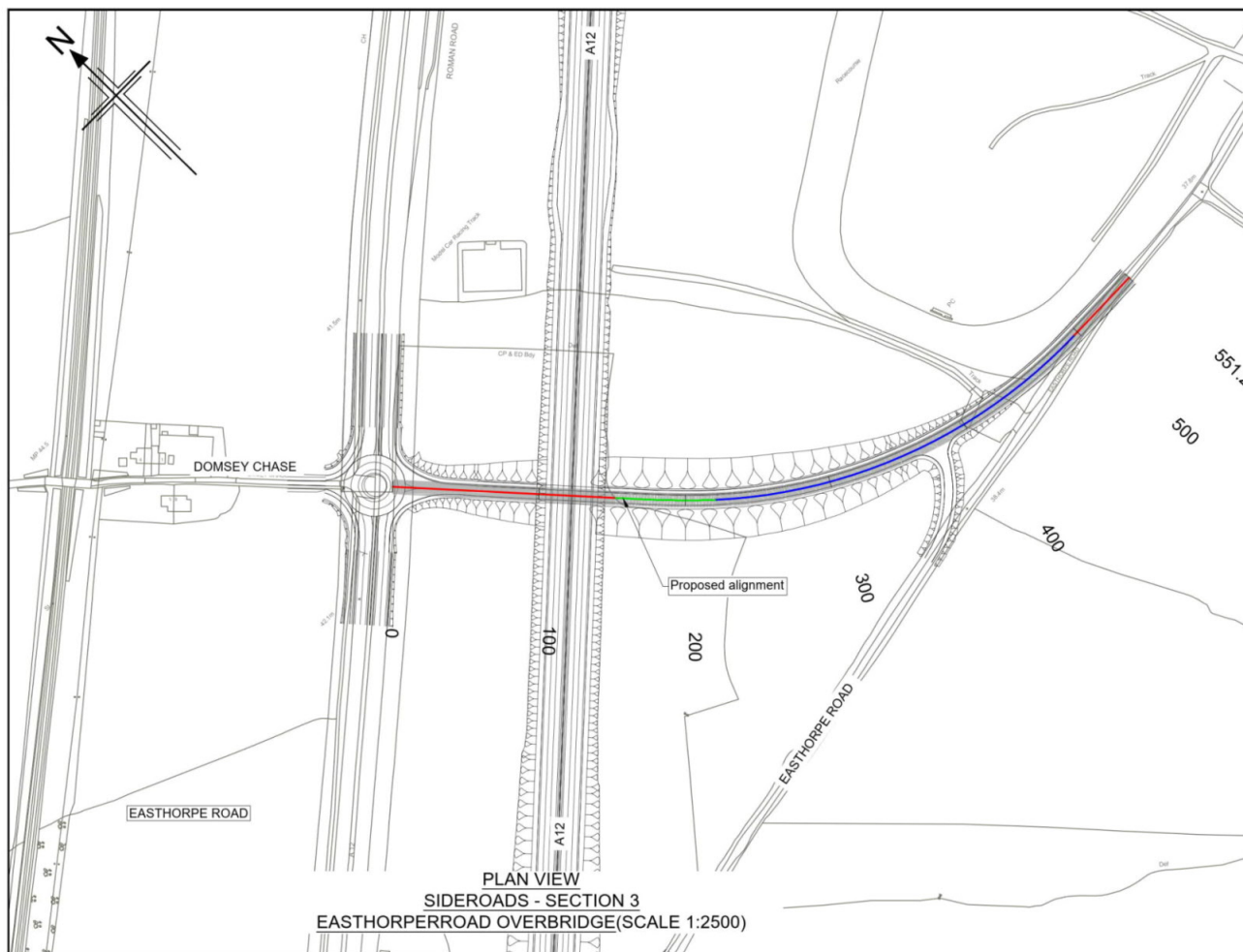
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
EASTHORPERROAD
SHEET 3 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

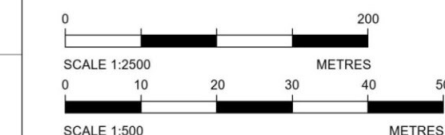
Drawing number	HE551497 - JAC - HSR - S3 SR
Originator	JAC
Volume	-DR- C-0003

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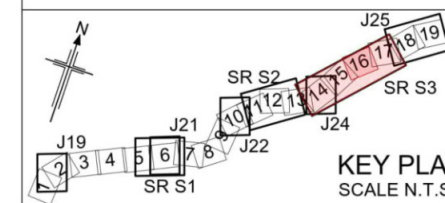
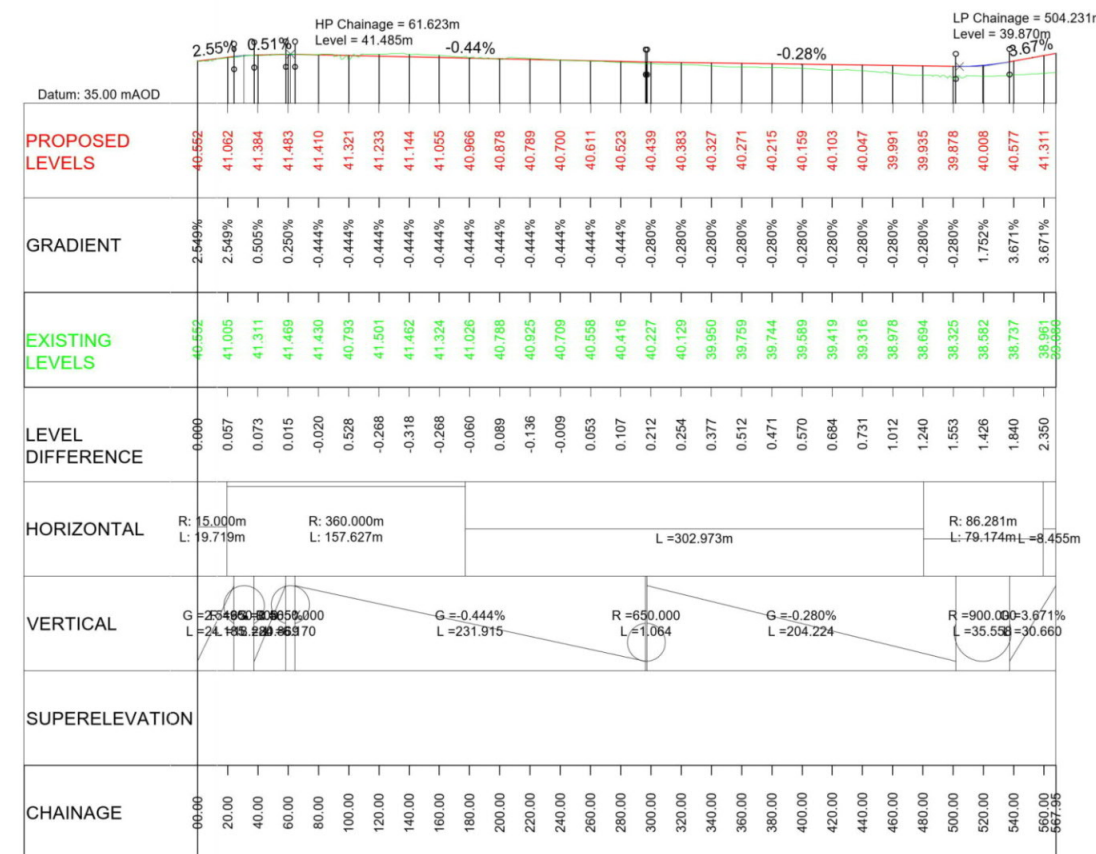
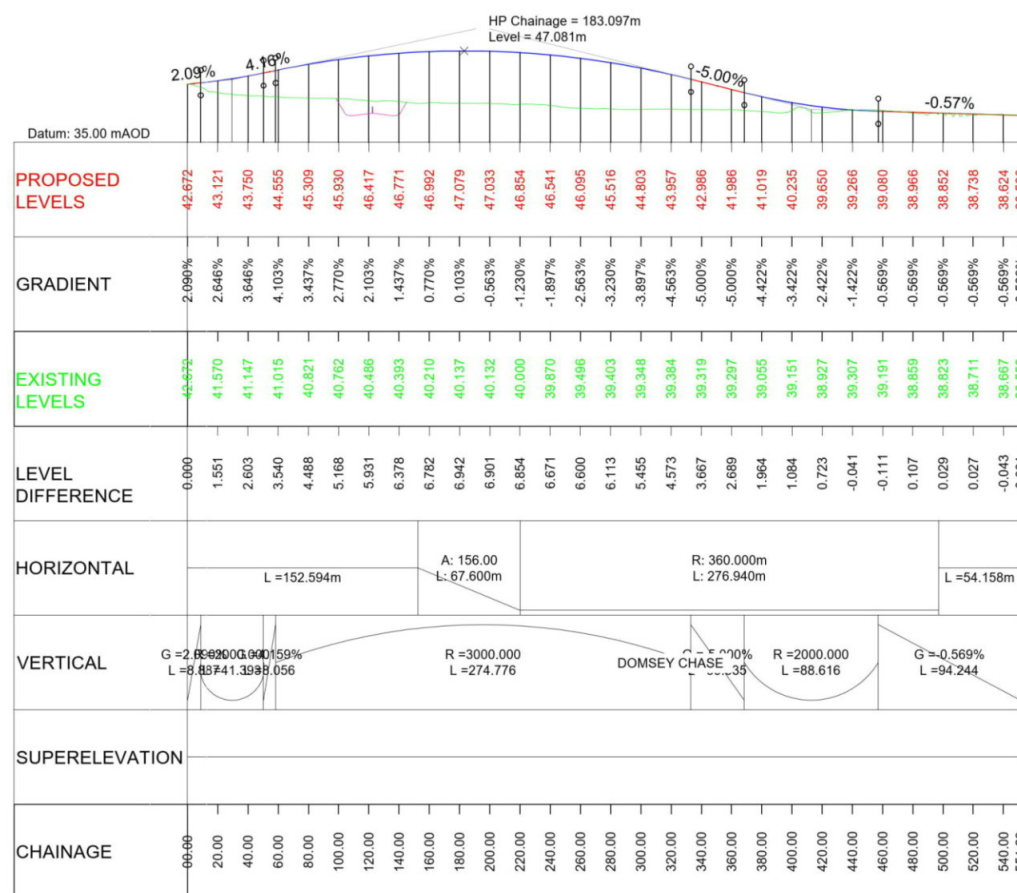


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 - For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR- C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
EASTHORPEROAD
SHEET 4 OF 10**

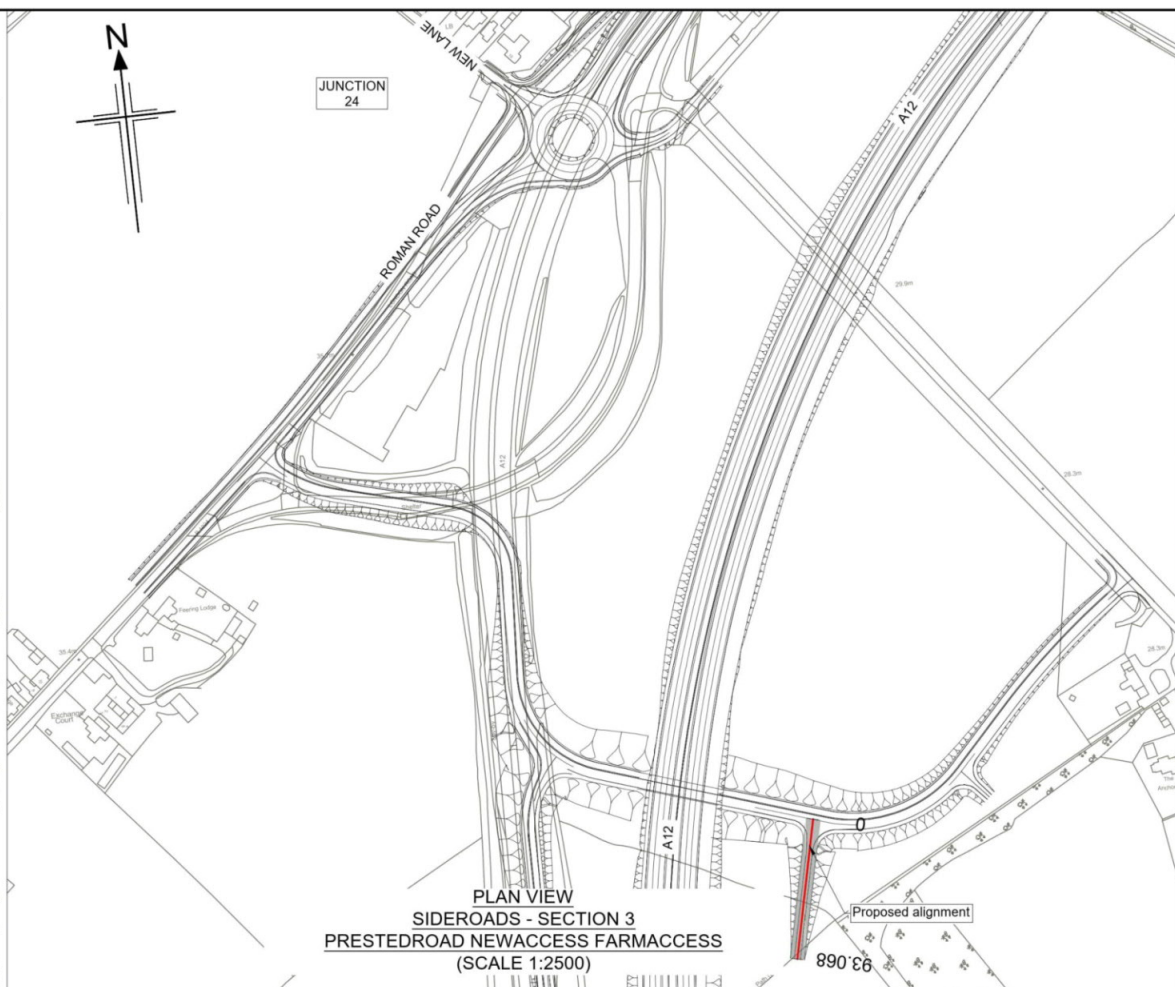
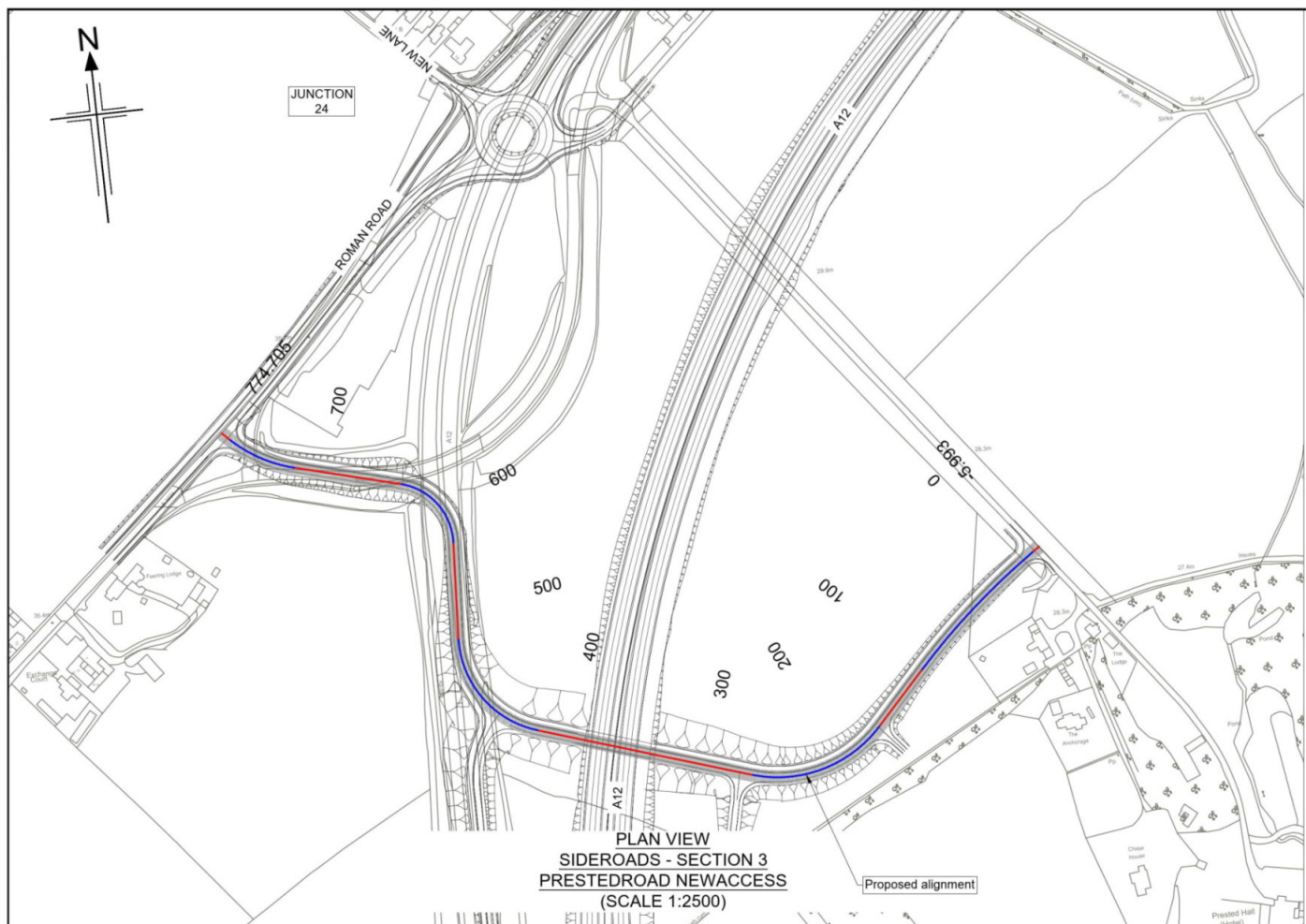
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

Drawing number: **HE551497 - JAC - HSR - S3 SR - DR - C - 0004**

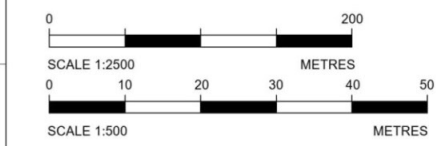
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C:\Users\HoweS1\Desktop\Plan and Profile\Exports\HE551497-JAC-HSR-S3_SR-DR-C-0004.dwg - 24/05/2021 17:35:35 - A1Frame - HoweS1

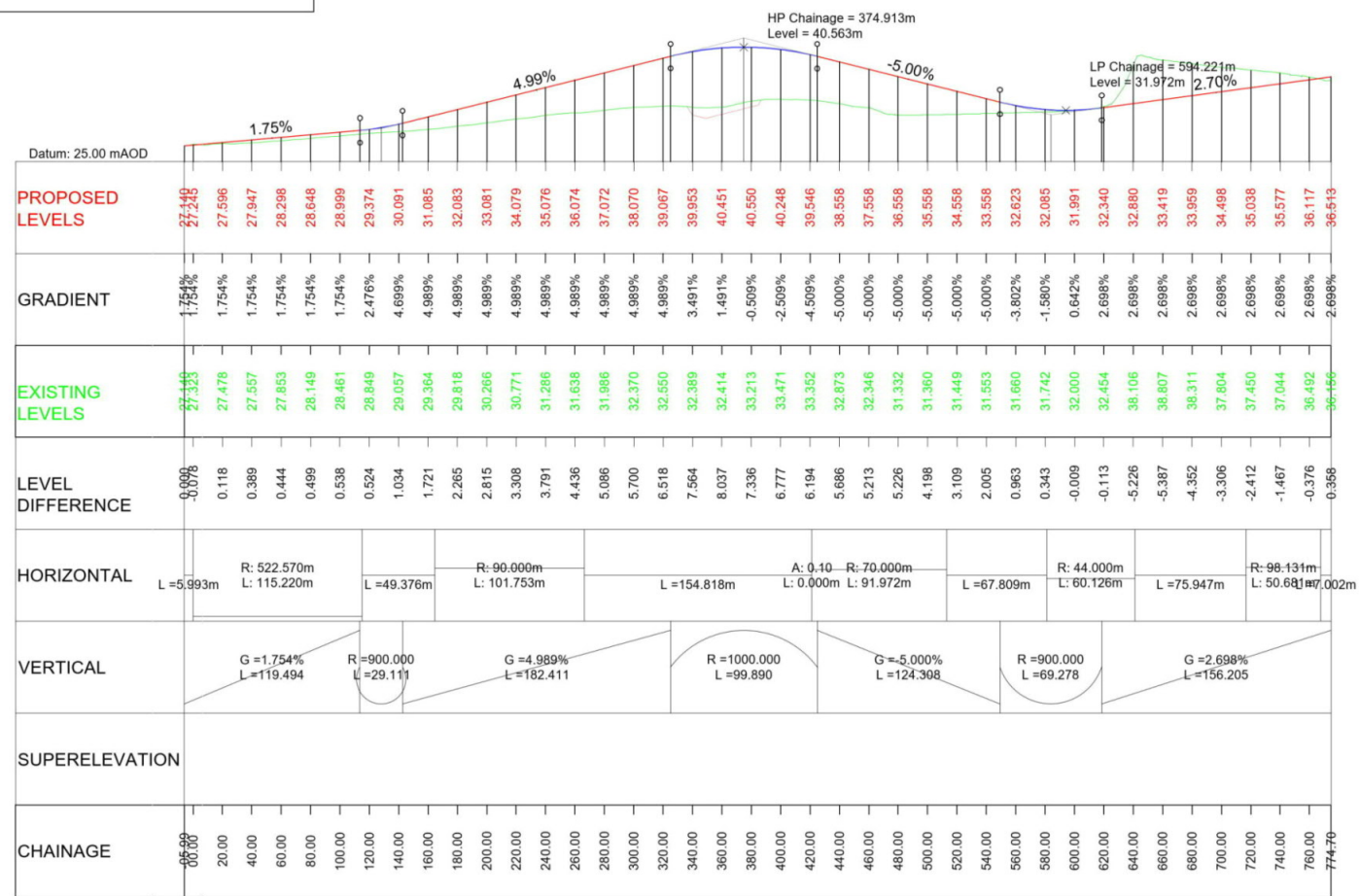


- Notes**
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 - For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

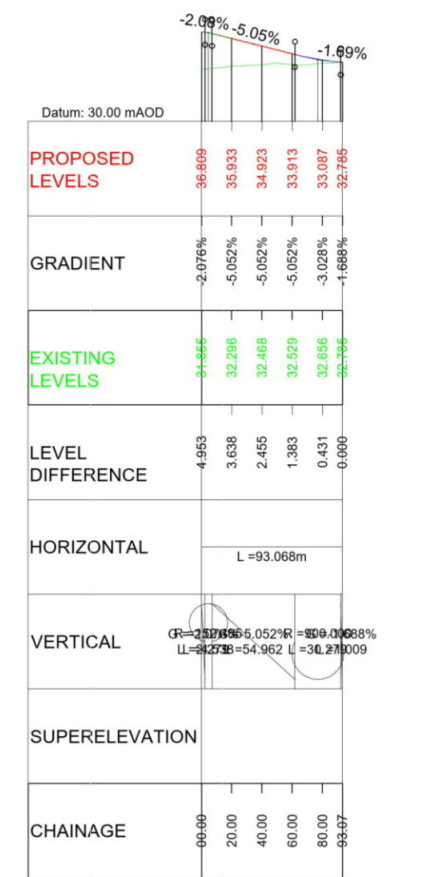
- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



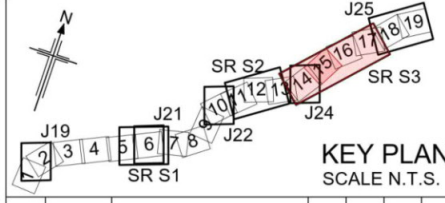
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LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
PRESTEDROAD NEWACCESS
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
PRESTEDROAD NEWACCESS FARMACCESS
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

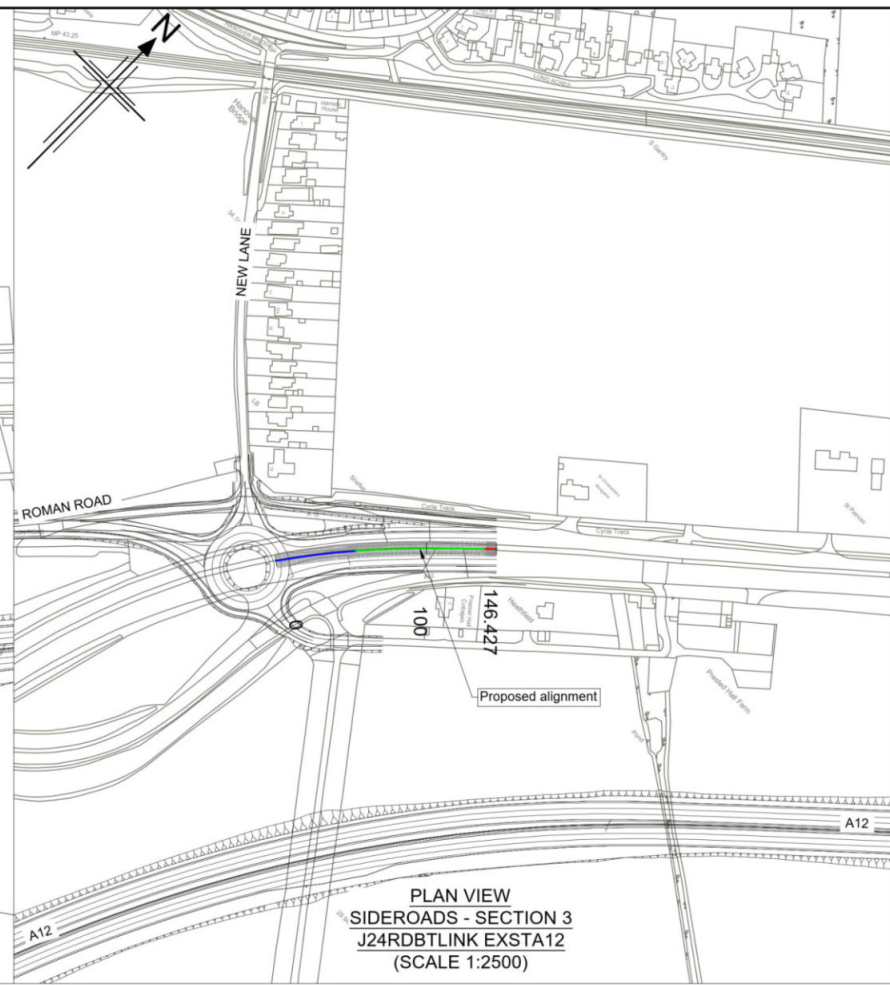
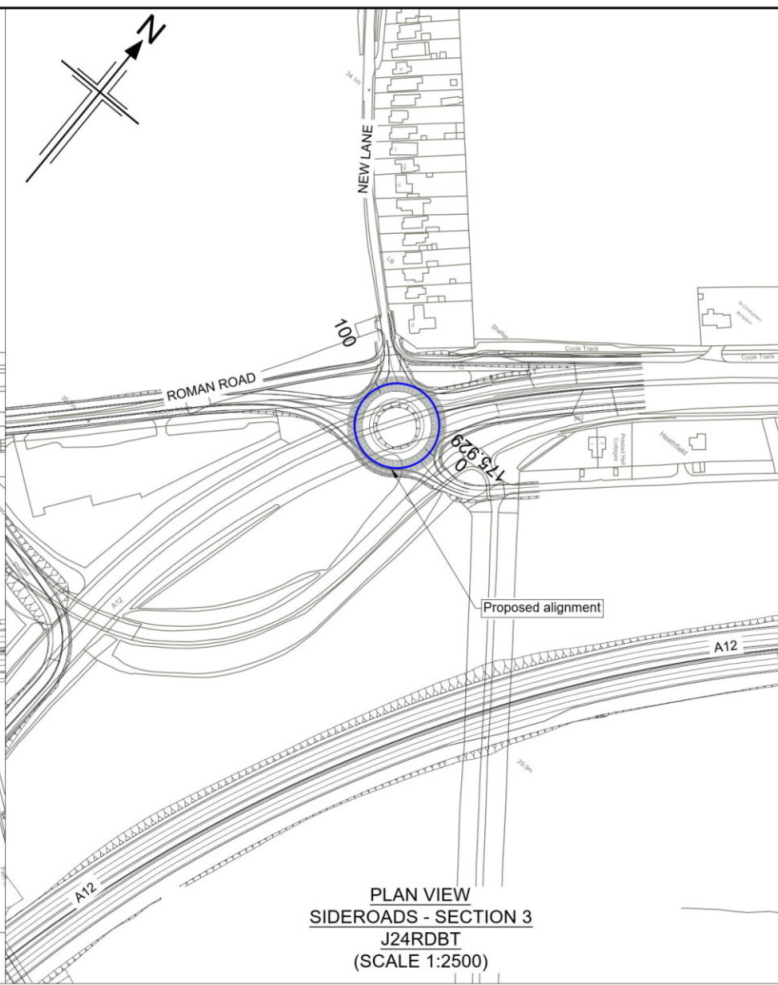
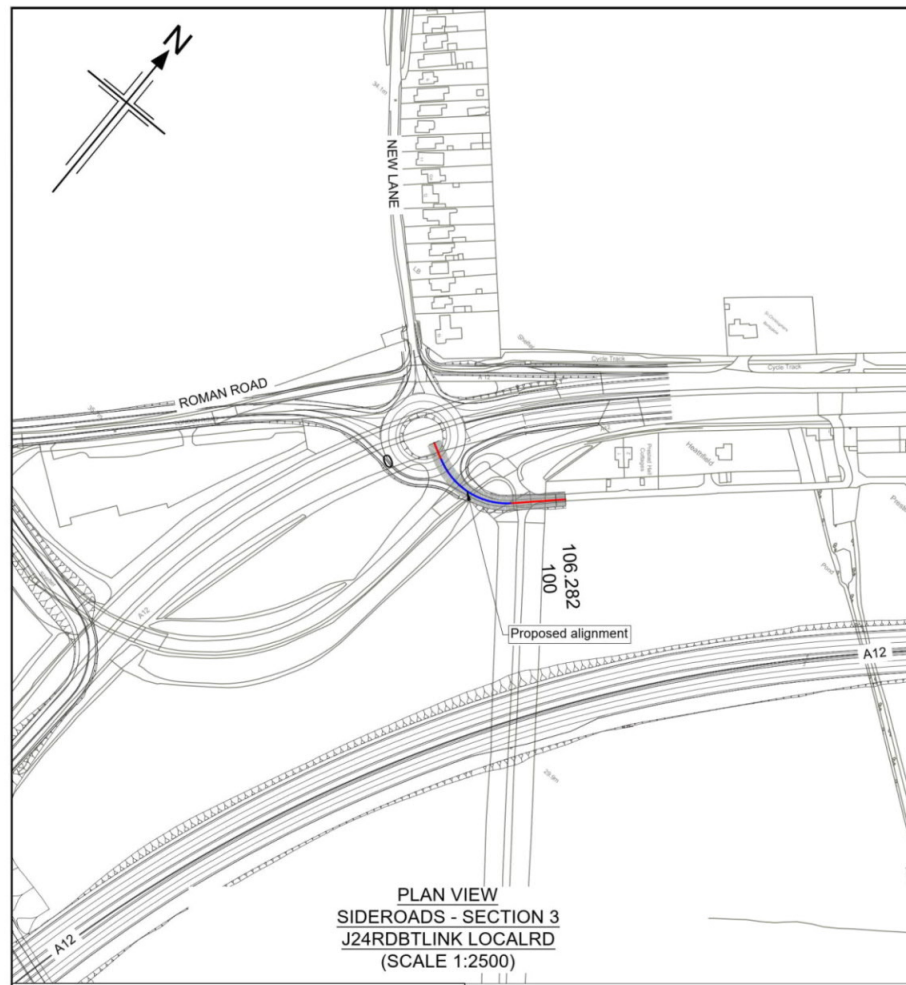
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
PRESTED HALL NEWACCESS
SHEET 5 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

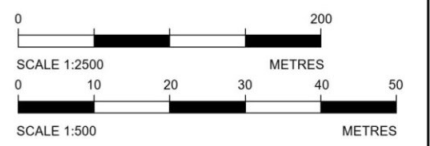
Drawing number	HE551497 - JAC - HSR - S3 SR - DR - C - 0005
Originator	JAC
Volume	-DR- C -0005
Location	S3 SR
Role	DO NOT SCALE
Number	Rev P02

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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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Datum: 30.00 mAOD

LP Chainage = 92.894m
Level = 32.155m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	34.236	-2.561%	34.245	-0.007	R: 47.088m L = 11.882m	G = -2.561% R = 900.000% L = 69.847	
20.00	33.726	-2.561%	33.914	-0.188			
40.00	33.214	-2.561%	33.301	-0.087	L = 58.930m	R = 32.883% L = 32.883%	
60.00	32.702	-2.561%	32.416	0.286			
80.00	32.247	-1.433%	32.322	-0.075			
100.00	32.155	0.789%	31.800	0.484			
120.00	32.155	0.789%	31.800	0.484			

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBLINK LOCALRD
(SCALE H=1:2500, V=1:500)

Datum: 30.00 mAOD

LP Chainage = 38.705m HP Chainage = 94.854m
Level = 33.672m Level = 34.248m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	33.855	-0.501%	33.970	-0.115	L = 175.929m	G = -0.501% R = 1000.000% L = 34.191m	
20.00	33.755	-0.501%	33.844	-0.090			
40.00	33.673	0.144%	33.755	-0.082		R = 110.000% L = 118.194	
60.00	33.875	1.319%	34.244	-0.369			
80.00	34.139	1.319%	34.332	-0.193		G = 0.500% R = 1000.000% L = 76.075	
100.00	34.235	-0.500%	33.316	0.919			
120.00	34.135	-0.500%	34.410	-0.275			
140.00	34.035	-0.500%	34.822	-0.787			
160.00	33.935	-0.500%	34.049	-0.115			
175.89	33.855	-0.500%	33.970	-0.115			

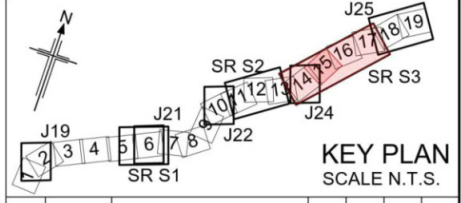
LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBT
(SCALE H=1:2500, V=1:500)

Datum: 30.00 mAOD

0.53%

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	34.099	0.526%	34.668	-0.499	R: 510.000m L: 53.523m	G = 0.526% R = 500.000% L = 119.838	
20.00	34.114	0.526%	34.567	-0.453			
40.00	34.219	0.526%	34.619	-0.400	A: 209.00 L: 85.649m L = 7.254m	R = 500.000% L = 8.54471	
60.00	34.324	0.526%	34.672	-0.348			
80.00	34.429	0.526%	34.688	-0.269			
100.00	34.534	0.526%	34.592	-0.057			
120.00	34.640	0.523%	34.665	-0.025			
140.00	34.748	0.181%	34.970	-0.008			

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBLINK EXSTA12
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

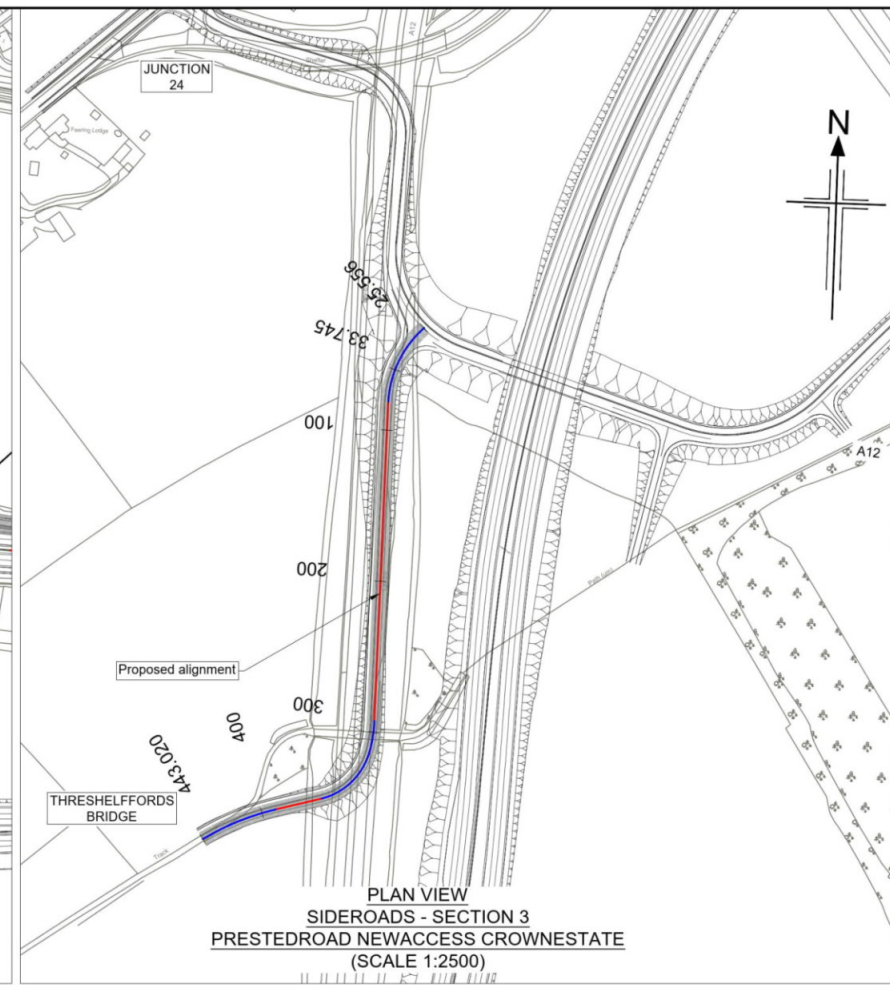
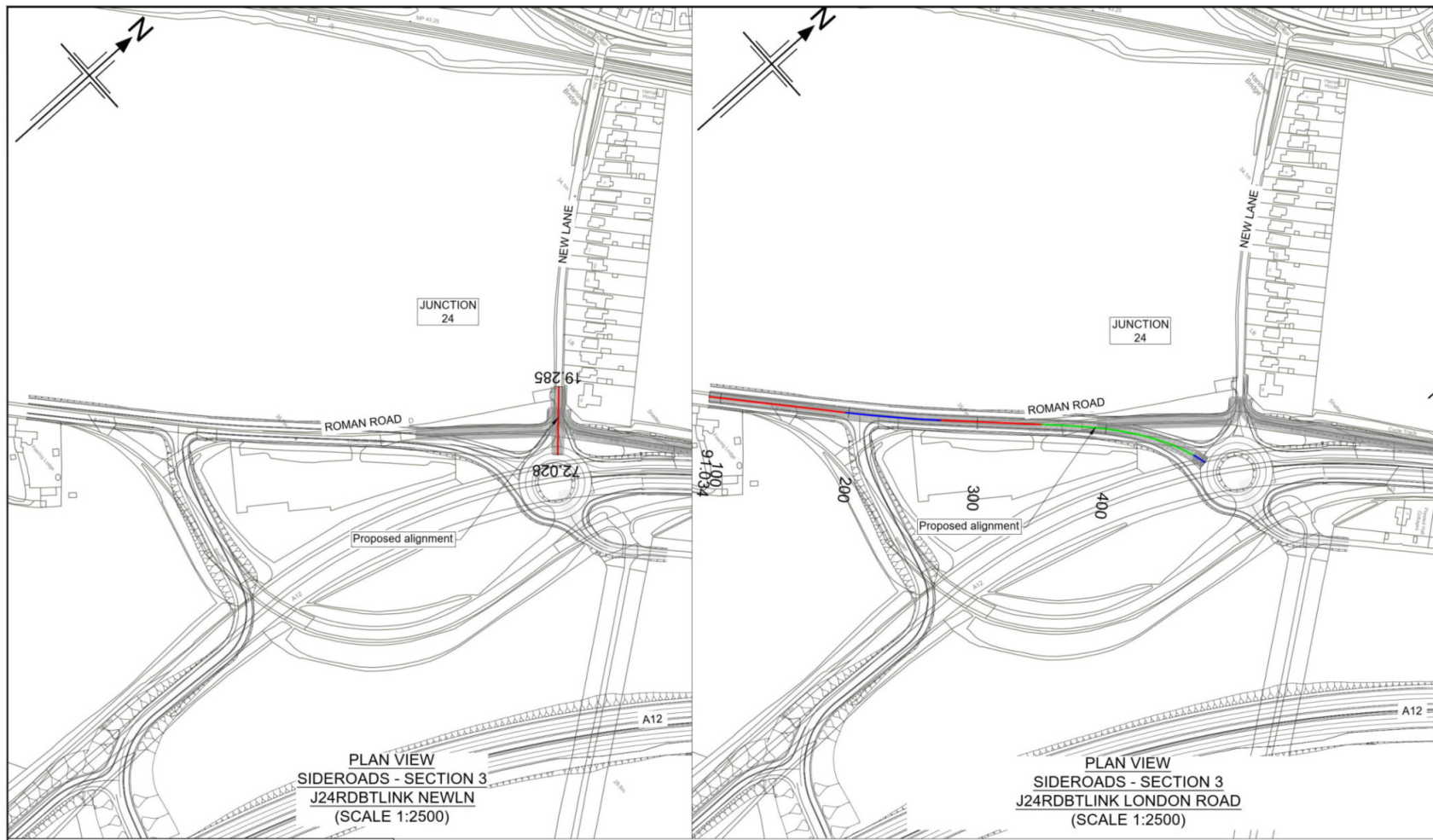
Drawing title: PLAN AND PROFILE
SIDEROADS SECTION 3
J24 RDBT
SHEET 6 OF 10

Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

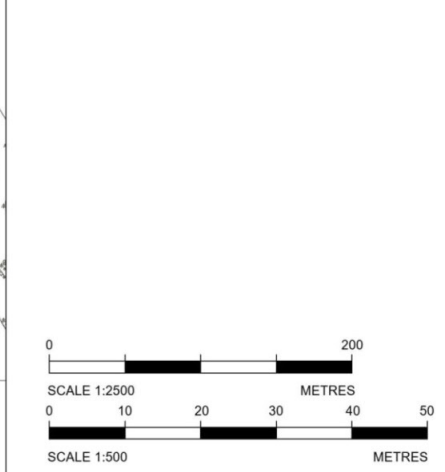
Drawing number: HE551497 - JAC - HSR - S3 SR - DR - C - 0006

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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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PROPOSED LEVELS	35.949	33.415	33.899	34.229
GRADIENT	2.330%	2.330%	2.749%	2.749%
EXISTING LEVELS	35.979	33.287	33.631	34.645
LEVEL DIFFERENCE	-0.030	0.128	0.268	-0.416
HORIZONTAL	L = 52.744m			
VERTICAL	G = 2.330% L = 54.019m			
SUPERELEVATION				
CHAINAGE	00.00	40.00	60.00	72.03

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBTLINK NEWLN
(SCALE H=1:2500, V=1:500)

Datum: 30.00 mAOD

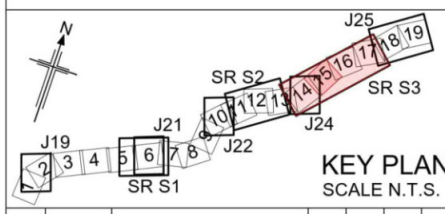
PROPOSED LEVELS	35.944	35.995	36.110	36.225	36.340	36.388	36.248	36.090	35.931	35.773	35.614	35.456	35.297	35.139	34.980	34.822	34.664	34.505	34.347	34.189		
GRADIENT	0.575%	0.575%	0.575%	0.575%	0.575%	-0.317%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.792%	-0.551%	-0.081%	
EXISTING LEVELS	35.933	35.988	36.204	36.292	36.271	36.211	36.167	35.977	35.950	35.879	35.691	35.589	35.426	35.277	34.993	34.738	34.649	34.411	33.905	33.849	34.888	
LEVEL DIFFERENCE	0.010	-0.003	-0.094	-0.067	0.069	0.176	0.082	0.112	-0.019	-0.106	-0.077	-0.133	-0.129	-0.138	-0.012	0.084	0.015	0.094	0.441	0.347	0.349	0.089
HORIZONTAL	L = 106.762m		R: 1020.000m L: 74.222m		L = 78.464m		A: 124.00 L: 121.071m		R: 127.00 L: 10.082m													
VERTICAL	G = 0.575% L = 73.790 R = 1700.000 L = 23.252										G = -0.792% L = 266.891					R = 900.000 L = 66.771						
SUPERELEVATION																						
CHAINAGE	91.03	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00	300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBTLINK LONDON ROAD
(SCALE H=1:2500, V=1:500)

Datum: 25.00 mAOD

PROPOSED LEVELS	36.683	37.732	36.901	35.901	34.901	33.901	32.902	31.902	31.097	30.736	30.820	31.268	31.752	32.236	32.720	33.204	33.688	34.172	34.656	34.854	34.467	33.888
GRADIENT	-2.723%	-4.999%	-4.999%	-4.999%	-4.999%	-4.999%	-4.999%	-2.916%	-0.694%	1.529%	2.420%	2.420%	2.420%	2.420%	2.420%	2.420%	2.420%	2.420%	2.420%	-0.548%	-2.659%	-2.659%
EXISTING LEVELS	35.479	32.552	31.170	31.029	30.970	30.904	30.839	30.781	30.722	30.661	30.604	30.553	30.476	30.468	30.412	30.204	30.014	32.809	34.719	34.835	34.589	33.888
LEVEL DIFFERENCE	5.564	5.180	5.731	4.872	3.931	2.997	2.063	1.121	0.376	0.076	0.216	0.716	1.276	1.769	2.308	3.000	3.674	1.364	-0.063	0.019	-0.122	0.089
HORIZONTAL	R: 70.000m L: 56.531m		L = 210.523m		R: 90.000m L: 20.612m		R: 44.000m L: 47.031m		R: 166.930m L: 52.335m													
VERTICAL	G = 1.650% L = 18.000m		G = -4.999% L = 106.467		R = 900.000 L = 66.771		G = 2.420% L = 152.685		R = 650.000 L = 33.015m													
SUPERELEVATION																						
CHAINAGE	25.56	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00	300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
PRESTEDROAD NEWACCESS CROWNESTATE
(SCALE H=1:2500, V=1:500)



PO1	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
PO2	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
RDBTLINK AND PRESTED HALL
SHEET 7 OF 10**

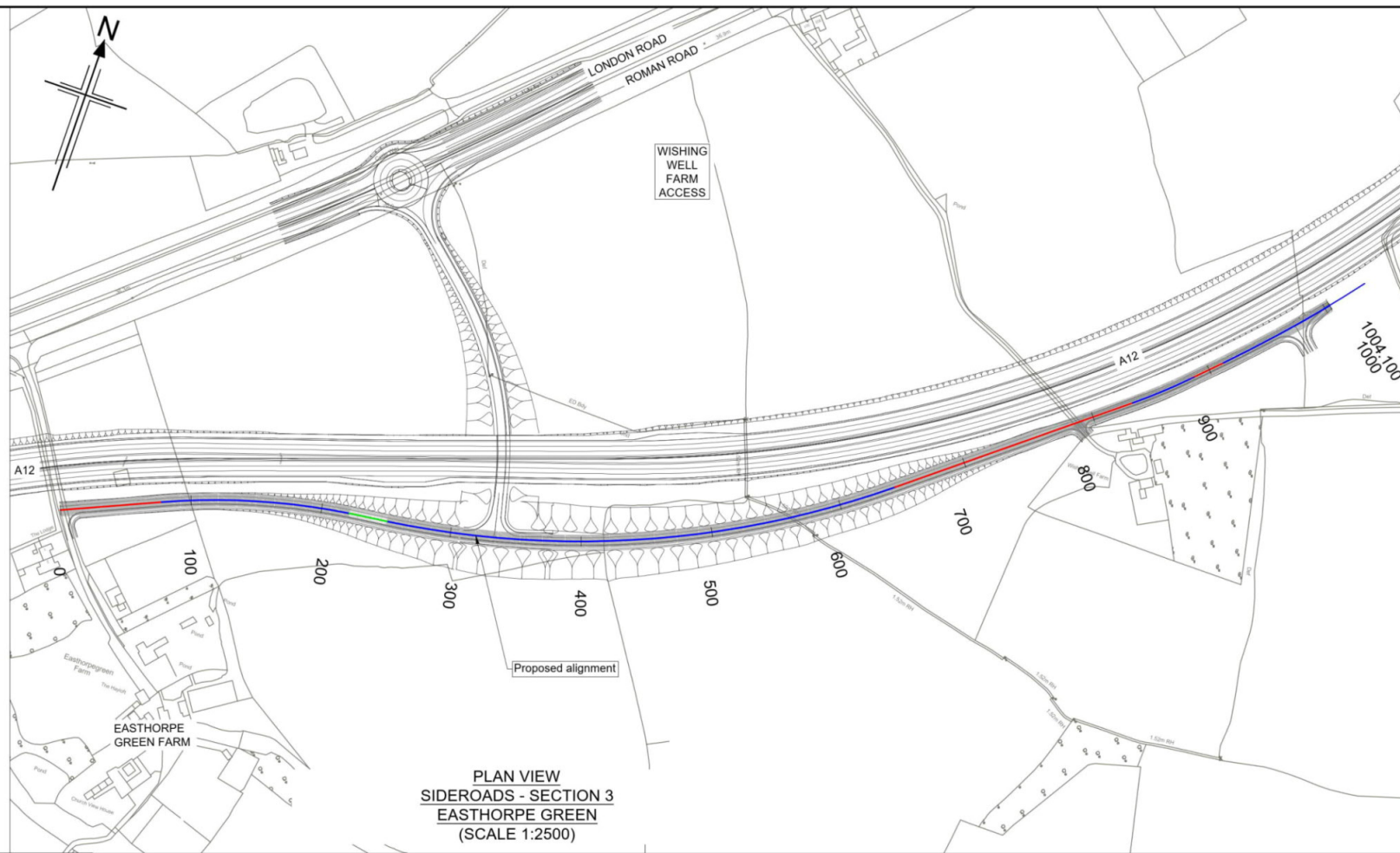
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number	HE551497 - JAC - HSR - S3 SR - DR - C - 0007
Originator	JAC
Volume	-DR- C-0007
Type	Role
Number	

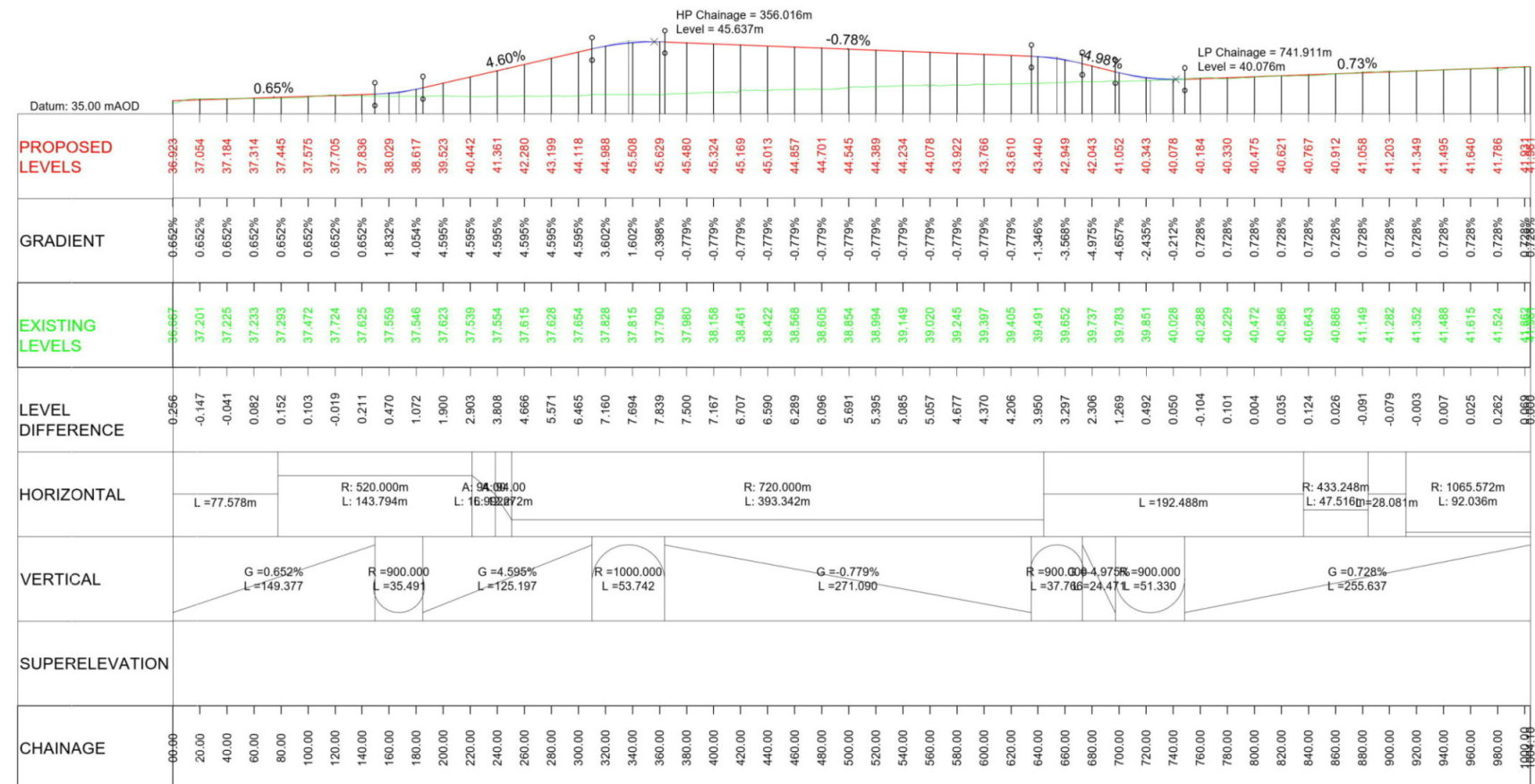
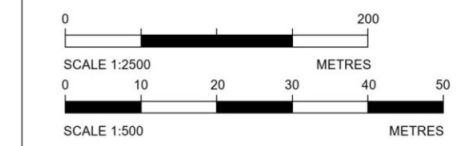
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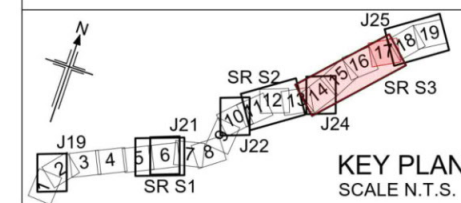


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 - HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.



LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
EASTHORPE GREEN
(SCALE H=1:2500, V=1:500)



P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **Jacobs**
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London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

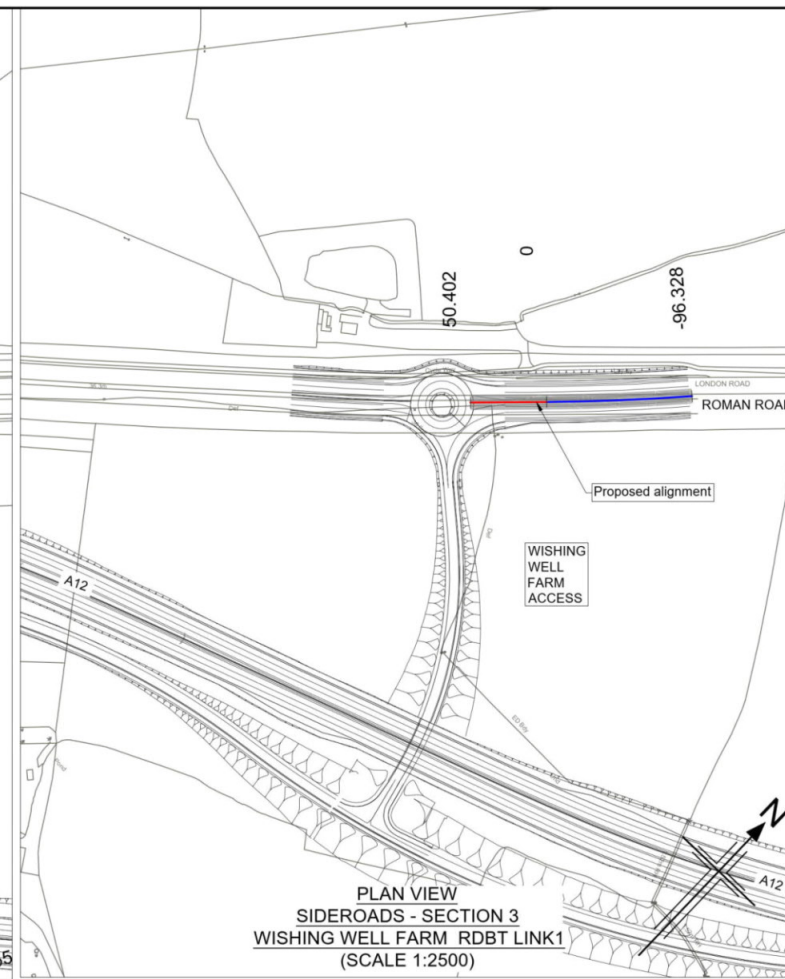
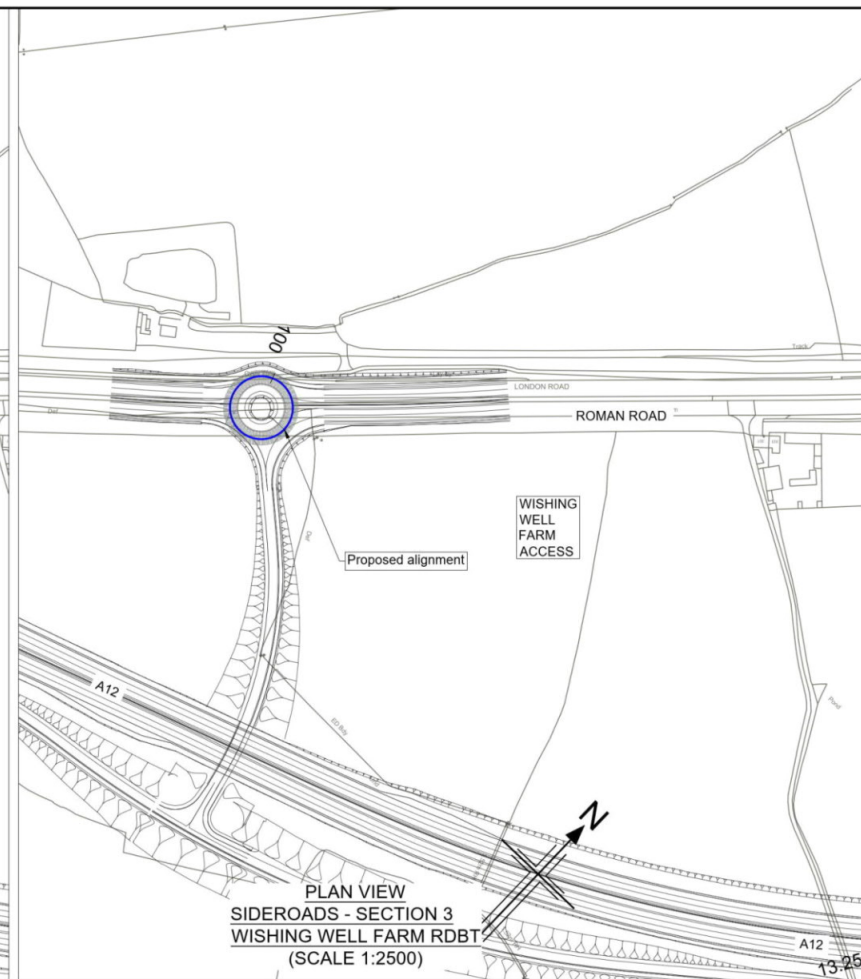
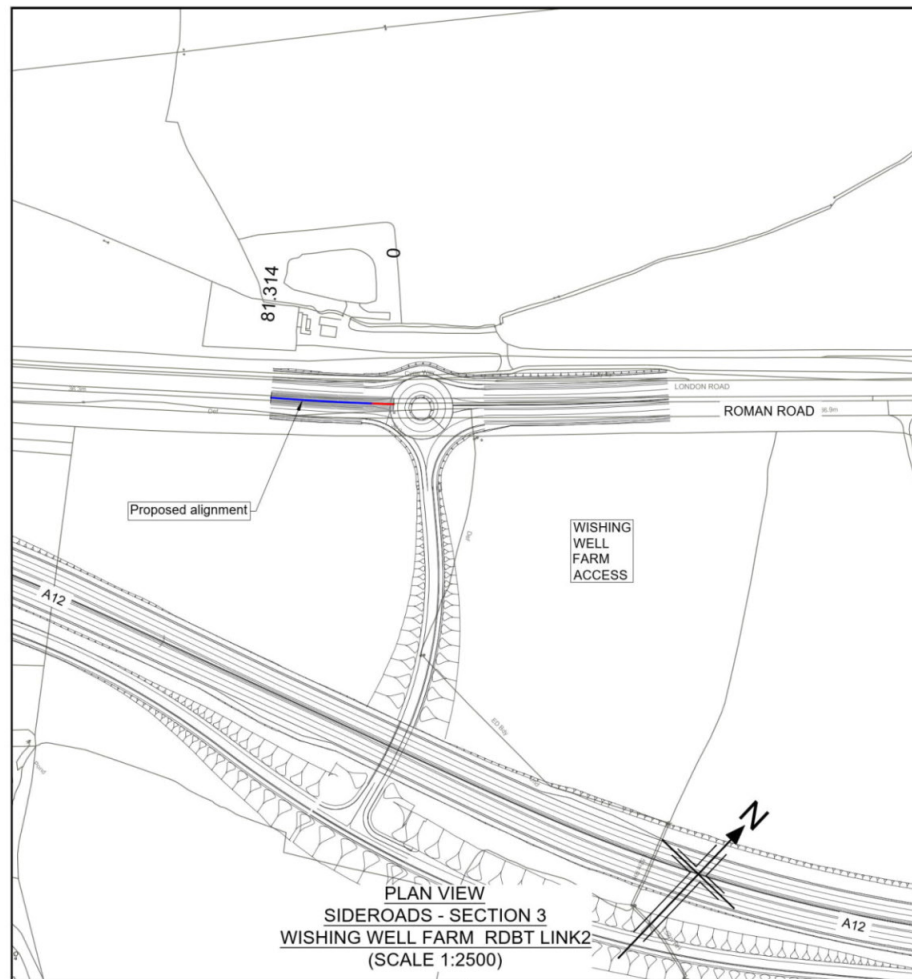
Drawing title: PLAN AND PROFILE
SIDEROADS SECTION 3
EASTHORPE AND WISHING WELL
SHEET 8 OF 10

Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

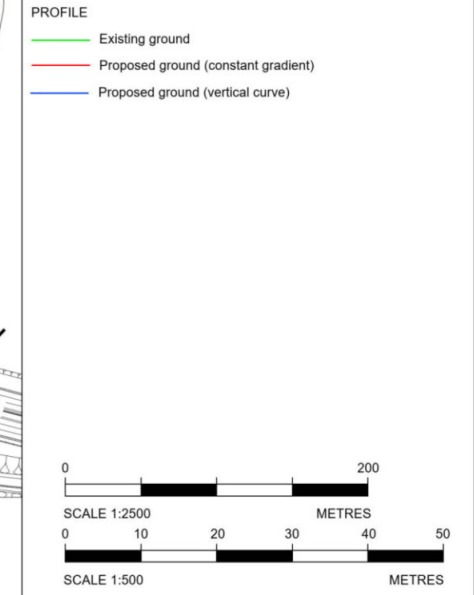
Drawing number: HE551497 - JAC - HSR - S3 SR - DR - C - 0008

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 - Only written dimension shall be used.
 - For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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Datum: 35.00 mAOD

PROPOSED LEVELS	36.460	36.453	36.445	36.438	36.430	36.422	36.396	36.252	36.135
GRADIENT	-0.039%	-0.039%	-0.039%	-0.039%	-0.039%	-0.039%	-0.386%	-1.053%	-1.133%
EXISTING LEVELS	36.460	36.470	36.474	36.458	36.472	36.446	36.417	36.413	36.422
LEVEL DIFFERENCE	0.000	-0.017	-0.029	-0.021	-0.042	-0.024	-0.021	-0.161	-0.287
HORIZONTAL	R: 777m L: 50.402m		L: 50.402m						
VERTICAL	G = -0.039% L = 105.920		R = 3000.000 L = 32.866		R = 3000.000 L = 32.866				
SUPERELEVATION									
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
WISHING WELL FARM RDBT LINK2
(SCALE H=1:2500, V=1:500)

HP Chainage = 24.343m
Level = 36.334m
LP Chainage = 92.632m
Level = 35.911m

Datum: 35.00 mAOD

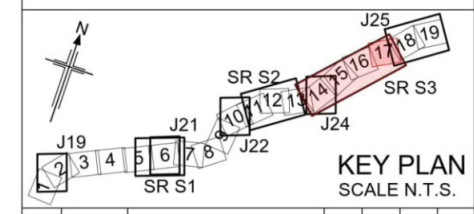
PROPOSED LEVELS	36.224	36.320	36.243	36.110	35.976	35.936	36.032	36.085
GRADIENT	0.480%	0.480%	-0.669%	-0.669%	-0.669%	0.480%	0.480%	0.480%
EXISTING LEVELS	36.005	36.132	36.217	36.013	35.867	35.823	36.229	36.005
LEVEL DIFFERENCE	0.140	0.188	0.027	0.097	0.108	0.114	-0.197	0.080
HORIZONTAL	L = 130.910m							
VERTICAL	G = 0.480% L = 22.024 G = -0.669% L = 57.912 G = 0.480% L = 10.974							
SUPERELEVATION								
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	139.91

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
WISHING WELL FARM RDBT
(SCALE H=1:2500, V=1:500)

Datum: 35.00 mAOD

PROPOSED LEVELS	36.112	36.232	36.352	36.391	36.433
GRADIENT	0.605%	0.605%	0.197%	0.197%	0.197%
EXISTING LEVELS	36.047	36.335	36.353	36.389	36.433
LEVEL DIFFERENCE	-0.236	-0.102	-0.001	0.002	0.000
HORIZONTAL	R: 1440.000m L = 14.920m; 66.394m				
VERTICAL	G = 0.605% L = 39.583 G = 0.197% L = 41.731				
SUPERELEVATION					
CHAINAGE	00.00	20.00	40.00	60.00	84.00

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
WISHING WELL FARM RDBT LINK1
(SCALE H=1:2500, V=1:500)



P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **Jacobs**
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London SE1 2QG. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

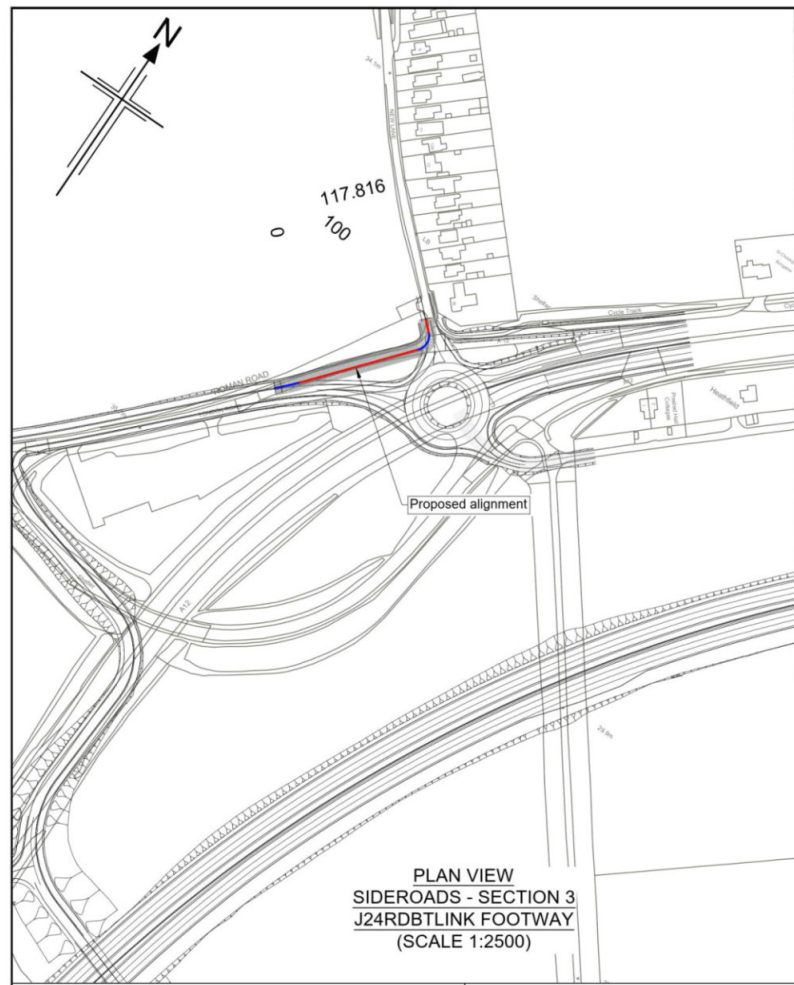
Drawing title: **PLAN AND PROFILE
SIDEROADS SECTION 3
WISHING WELL FARM
SHEET 9 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

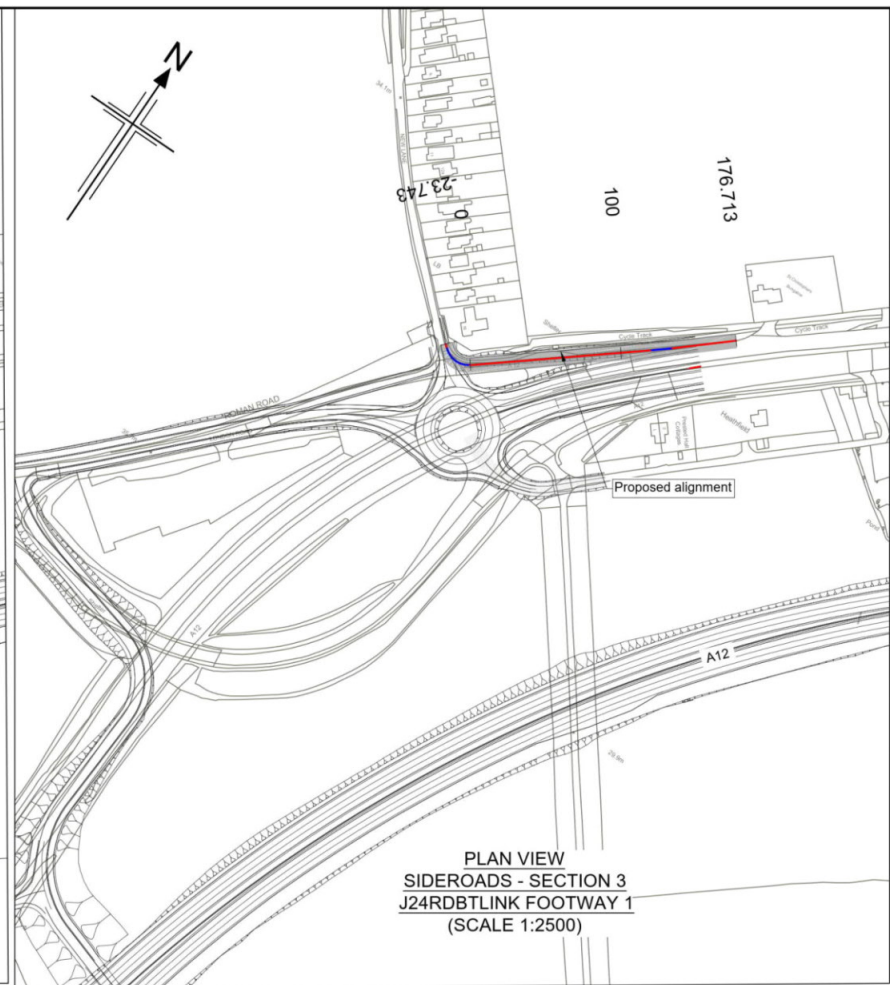
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S3 SR - DR - C - 0009**

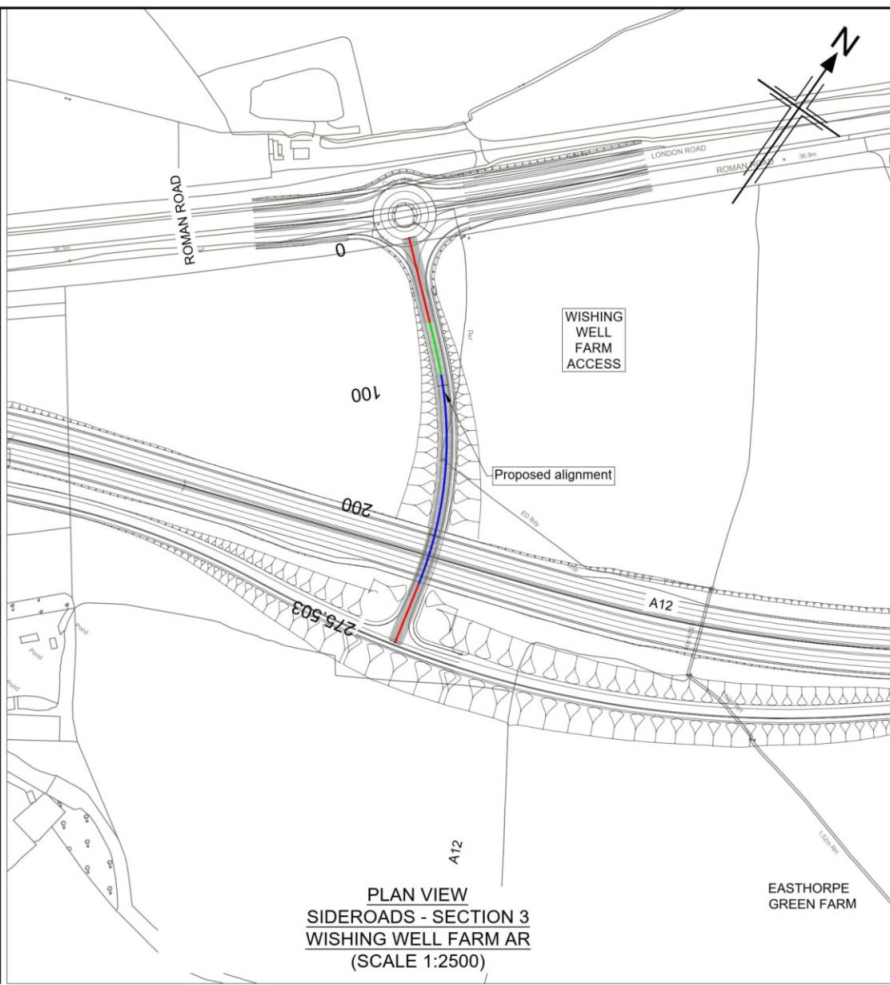
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PLAN VIEW
SIDEROADS - SECTION 3
J24RDBT LINK FOOTWAY 1
(SCALE 1:2500)



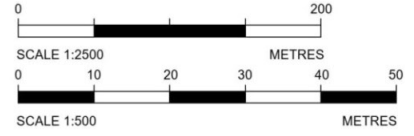
PLAN VIEW
SIDEROADS - SECTION 3
J24RDBT LINK FOOTWAY 1
(SCALE 1:2500)



PLAN VIEW
SIDEROADS - SECTION 3
WISHING WELL FARM AR
(SCALE 1:2500)

- Notes
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 - Only written dimension shall be used.
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 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



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	0+00	0+20	0+40	0+60	0+80	1+00	1+17.816
PROPOSED LEVELS	34.648	34.592	34.331	34.070	33.809	33.600	33.487
GRADIENT		-1.305%	-1.305%	-1.305%	-1.305%	-0.565%	-0.565%
EXISTING LEVELS	34.645	34.593	34.363	34.057	33.750	33.566	33.446
LEVEL DIFFERENCE	0.003	-0.001	-0.032	0.013	0.059	0.014	-0.123
HORIZONTAL	R: 9.525m L: 14.486m L=81.311m L=9.210m						
VERTICAL	G=-1.305% L=83.988 R=900.000 L=6.862 G=-0.565% L=41.473						
SUPERELEVATION							
CHAINAGE	04.27	20.00	40.00	60.00	80.00	100.00	117.82

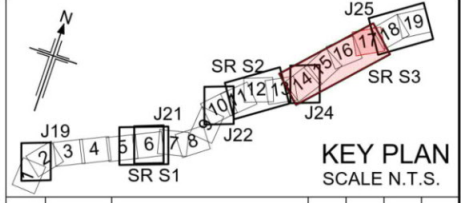
LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBT LINK FOOTWAY 1
(SCALE H=1:2500, V=1:500)

	176.713	180.00	184.00	188.00	192.00	196.00	200.00	204.00	208.00	212.00	216.00	220.00
PROPOSED LEVELS	33.201	33.590	33.857	34.178	34.374	34.552	34.730	34.907	35.001	35.020	35.036	35.036
GRADIENT		1.468%	1.468%	1.601%	1.601%	0.889%	0.889%	0.889%	0.096%	0.096%	0.096%	0.096%
EXISTING LEVELS	33.319	33.426	33.759	34.055	34.415	34.721	34.928	35.048	35.085	35.077	35.054	35.036
LEVEL DIFFERENCE	-0.118	-0.170	-0.209	-0.198	-0.237	-0.347	-0.377	-0.319	-0.177	-0.076	-0.034	0.000
HORIZONTAL	R: 360.000m L: 13.708m L=3.177m L=120.537m L=42.467m											
VERTICAL	G=1.468% L=32.716 R=650.000 L=0.865 G=1.601% L=32.767 R=650.000 L=5.153 G=0.889% L=84.203 R=650.000 L=44.75 G=0.096% L=44.75											
SUPERELEVATION												
CHAINAGE	23.74	40.00	60.00	80.00	100.00	120.00	140.00	160.00	176.71	196.00	216.00	236.00

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
J24RDBT LINK FOOTWAY 1
(SCALE H=1:2500, V=1:500)

	224.667	230.00	235.00	240.00	245.00	250.00	255.00	260.00	265.00	270.00	275.00	280.00	285.00	290.00	295.00	300.00
PROPOSED LEVELS	36.213	36.464	37.156	38.203	39.281	40.359	41.436	42.514	43.592	44.627	45.320	45.613	45.551	45.432	45.340	45.340
GRADIENT		0.391%	2.349%	4.571%	5.388%	5.388%	5.388%	5.388%	4.467%	2.467%	0.467%	-0.593%	-0.593%	-0.593%	-0.593%	-0.593%
EXISTING LEVELS	36.635	36.207	36.656	37.064	37.322	37.467	37.590	37.613	37.927	37.968	38.066	38.044	38.015	37.824	37.636	37.436
LEVEL DIFFERENCE	-0.020	0.257	0.500	1.140	1.959	2.891	3.846	4.701	5.665	6.659	7.254	7.569	7.536	7.609	7.710	7.904
HORIZONTAL	A: 94.00 L=57.811m L=34.651m R: 255.000m L: 141.947m L=41.094m															
VERTICAL	G=0.391% L=238.044.970 R=1000.000 L=59.811 G=5.388% L=123.435 R=1000.000 L=59.811 G=-0.593% L=44.907															
SUPERELEVATION																
CHAINAGE	66.66	100.00	140.00	180.00	220.00	260.00	300.00	340.00	380.00	420.00	460.00	500.00	540.00	580.00	620.00	660.00

LONGITUDINAL SECTION
SIDEROADS - SECTION 3 -
WISHING WELL FARM AR
(SCALE H=1:2500, V=1:500)



KEY PLAN
SCALE N.T.S.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	26/04/21	DESIGN FIX 2	SH	JM	ST	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
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 www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
 SIDEROADS SECTION 3
 J24 RDBT FOOTWAY & EASTHORPE
 SHEET 10 OF 10**

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

Drawing number: **HE551497 - JAC - HSR - S3 SR - DR - C - 0010**

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