

A12 Chelmsford to A120 widening scheme

Map book 3: Engineering plans
(Set 2 of 4 - Junctions)

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

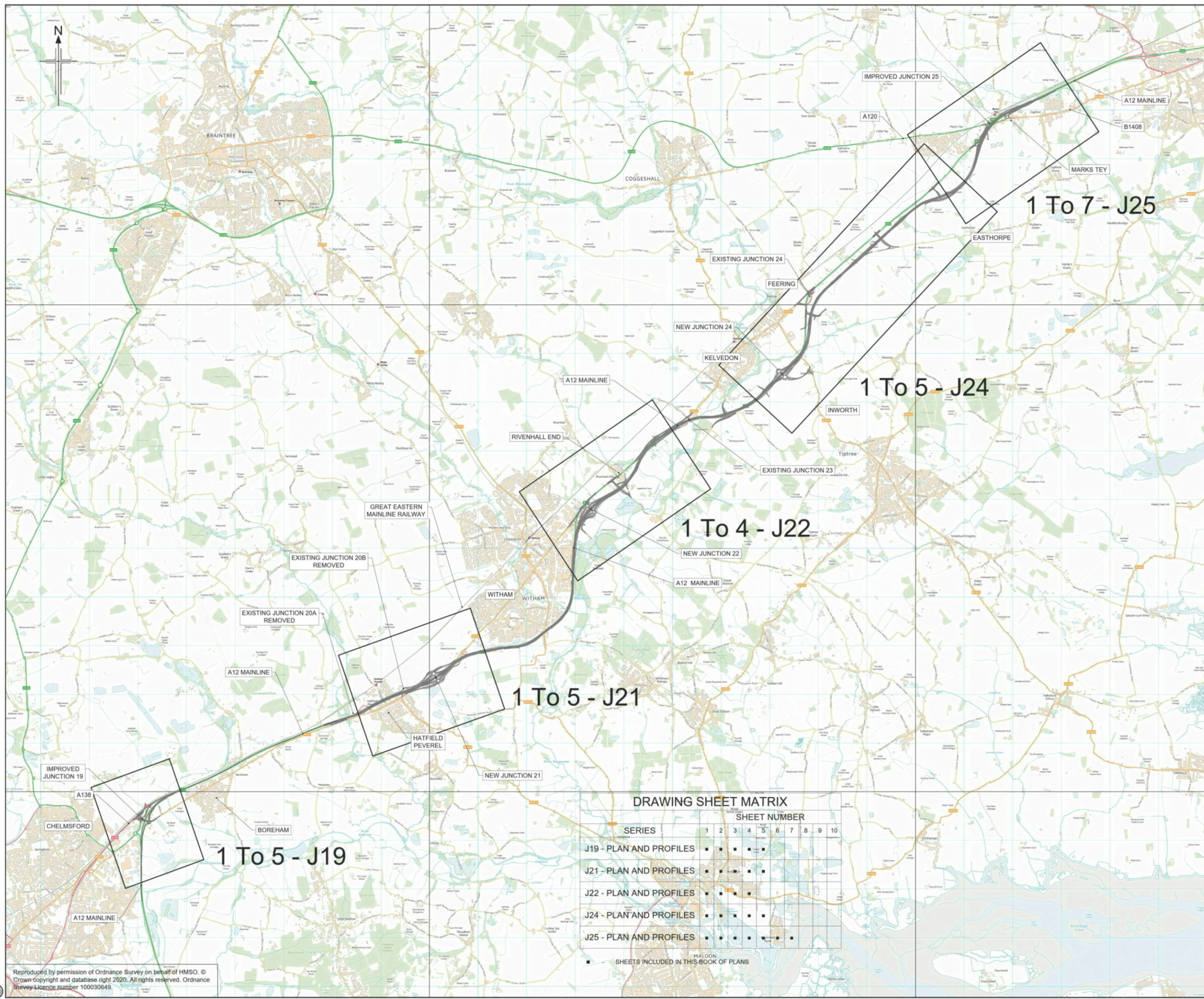
Temporary use of land is needed for the proposed scheme to be constructed safely. The plans show land that may be required temporarily for the main construction compounds at various locations along the route. We will also require temporary access over land to divert utilities such as gas pipelines, electricity 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
J19 - PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
J21 - PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
J22 - PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
J24 - PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■
J25 - PLAN AND PROFILES	■	■	■	■	■	■	■	■	■	■

■ SHEETS INCLUDED IN THIS BOOK OF PLANS

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC
Contractor:			Designer:			
Client:						
Project:						
REGIONAL DELIVERY PARTNERSHIP						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title:						
COVERSHEET						
PLAN AND PROFILES						
JUNCTIONS						
Drawing status:						
S2 - SUITABLE FOR INFORMATION						
State Code	Preliminary					
Project Stage	PCF3					
Scale	NTS					
Jacobs No.	B36601D1					
Client no.	HE551497					
Drawing number	HE551497 - JAC - HGN - SCHW - DR - C - 0029					
PIN	Originator	Volume	Type	Role	Number	
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	SCHW	-DR-				

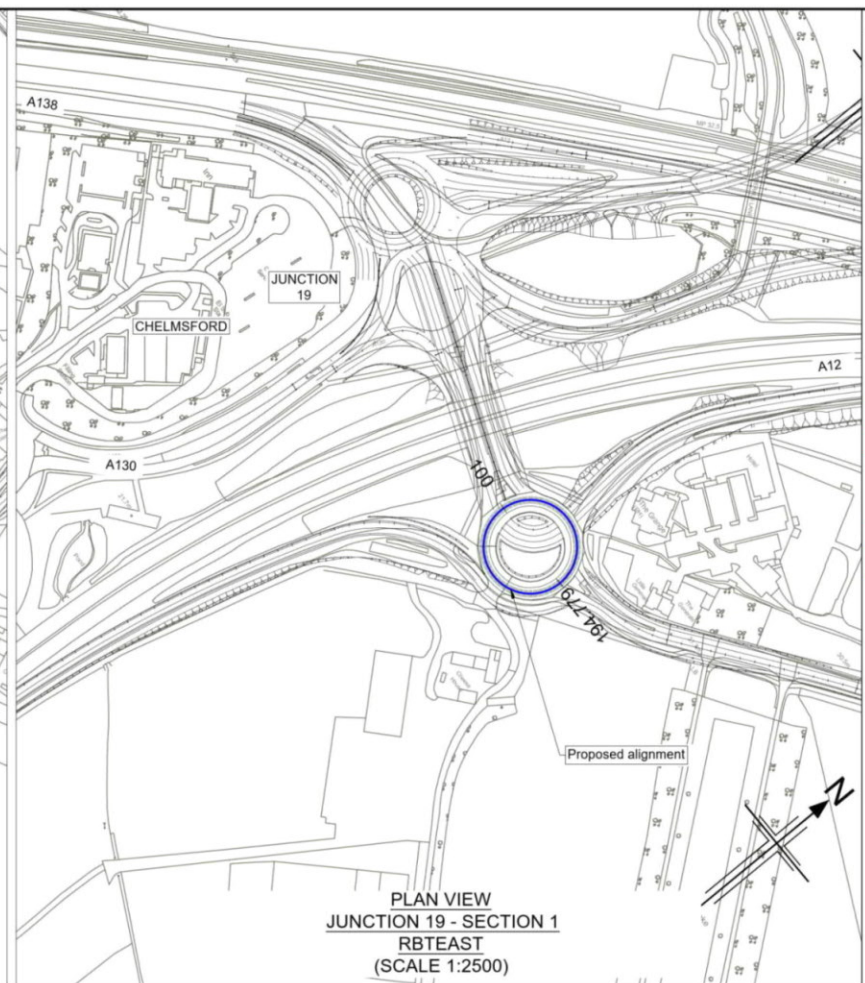
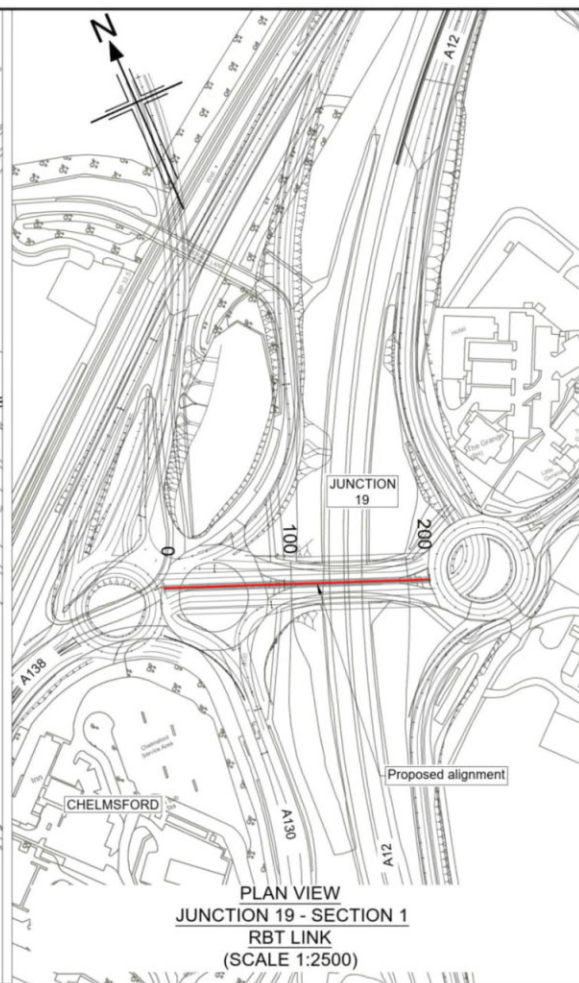
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Rev P01

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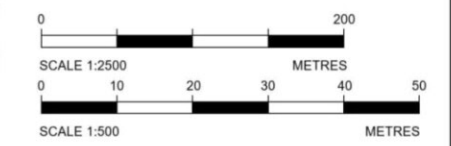
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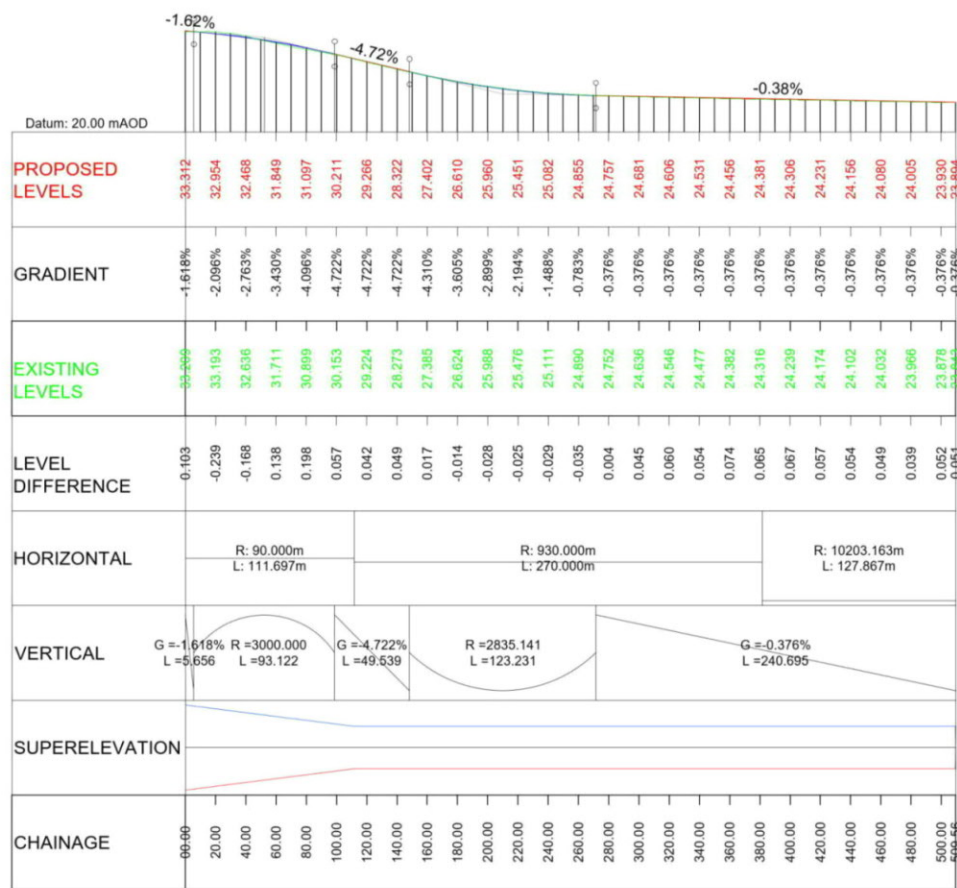


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 4. Only written dimension shall be used.
 5. For Sheet Layout Plan refer to:
 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

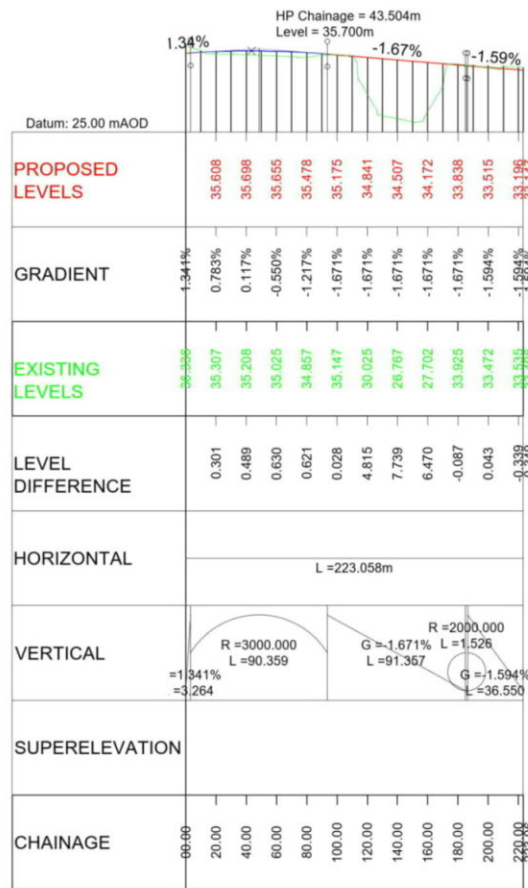
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- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



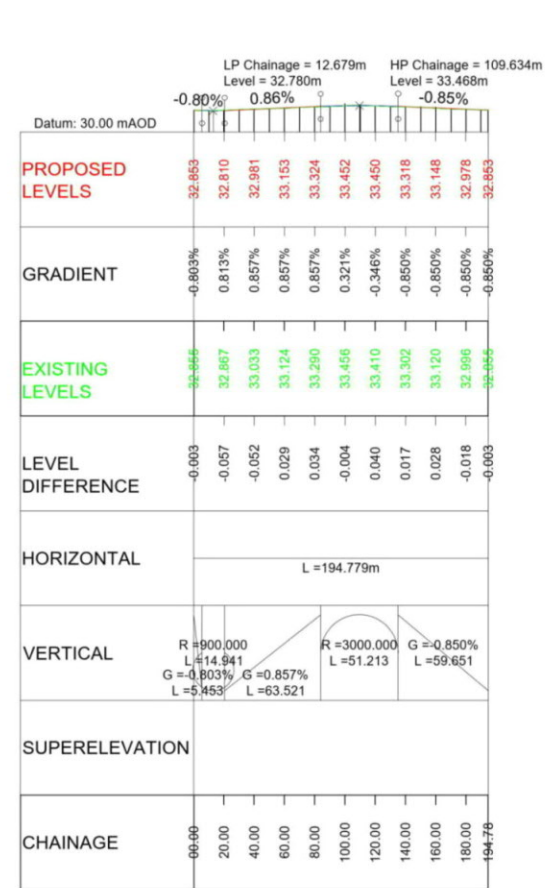
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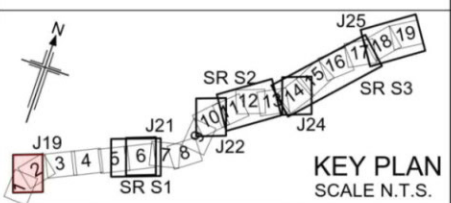
LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - SB ONSLIP
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBT LINK
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBTEAST
(SCALE H=1:2500, V=1:500)



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

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Coltons Centre, Coltons Lane, London SE1 2QS. 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 JUNCTION 19 SECTION 1 SB ONSLIP RBT LINK RBTEAST SHEET 1 OF 5**

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

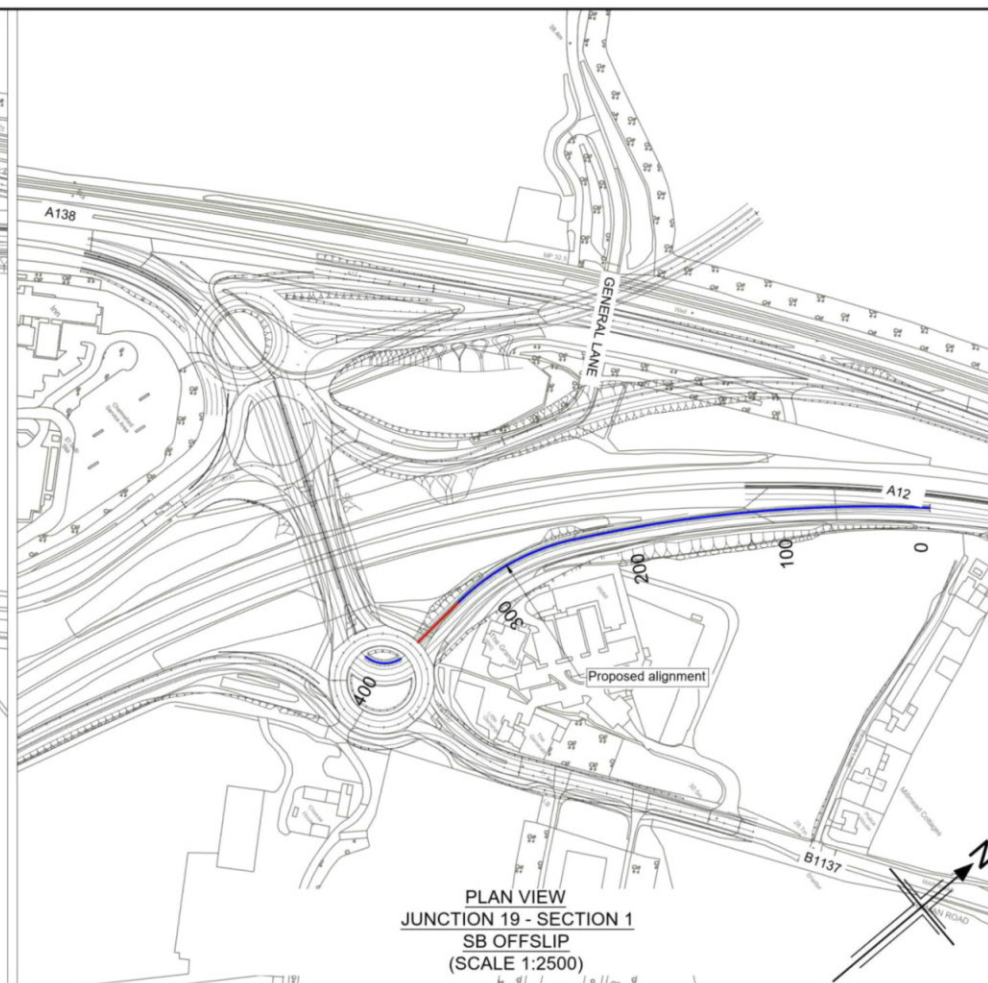
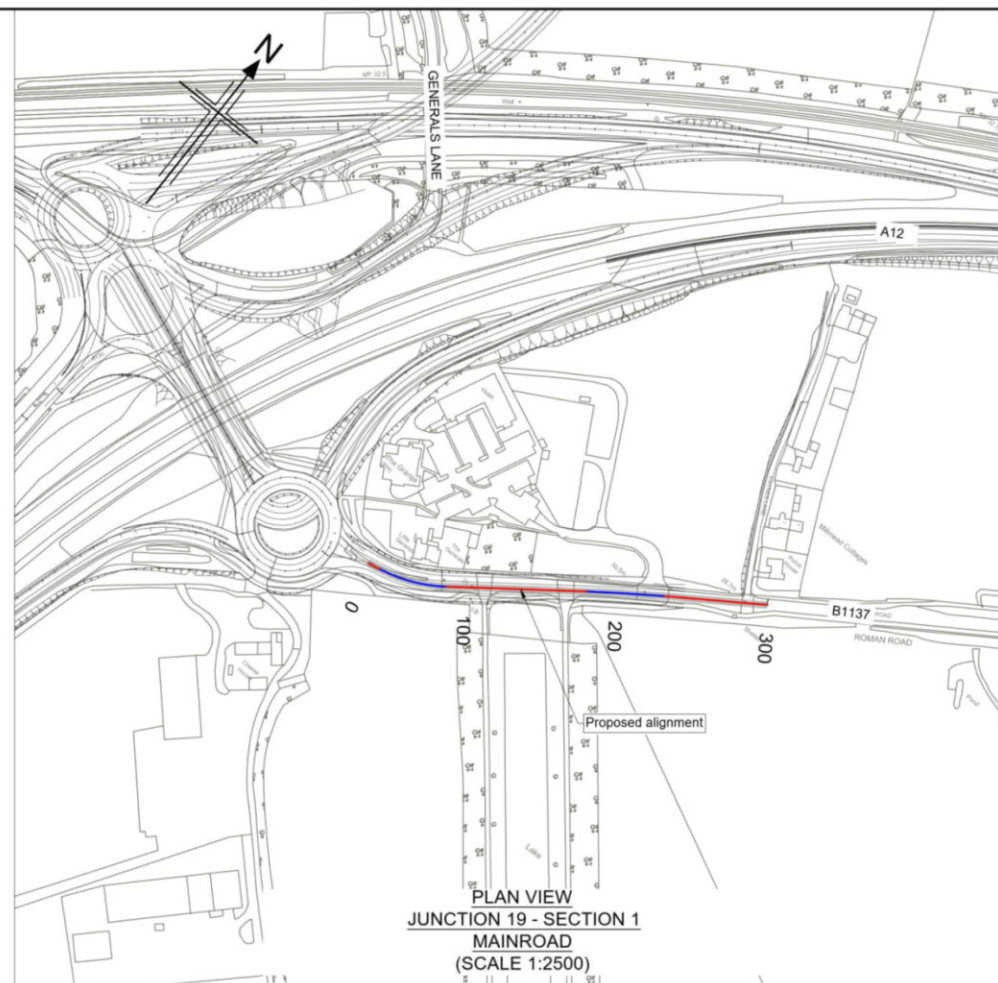
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Jacobs No.	B36601D1
Client no.	HE551497

DO NOT SCALE	Rev	P02
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Drawing number: HE551497 - JAC - HSR - S1 J19 - DR - C - 0001

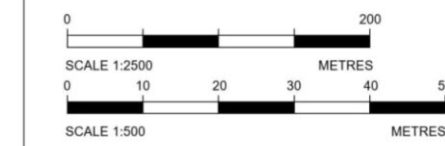
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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

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



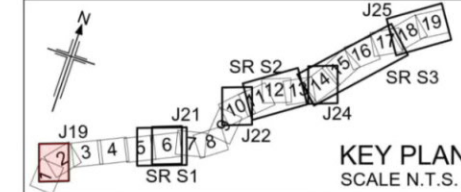
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CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	GRADIENT	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	35.547	33.109	-1.479%	0.262	R=100.000m L=46.684m L=45.914m	R=2000.000 L=12.031 G=-1.479% L=52.797	[Diagram showing super-elevation transition]
20.00	33.005	32.813	-1.479%	-0.192			
40.00	32.592	32.517	-1.479%	-0.075	L=92.963m	R=5000.000 L=88.811 G=-0.877% L=110.786	[Diagram showing super-elevation transition]
60.00	32.331	32.235	-1.118%	-0.097			
80.00	32.019	32.053	-0.877%	0.034	R=1020.000m L=51.581m	R=2000.000 L=12.031 G=-1.479% L=52.797	[Diagram showing super-elevation transition]
100.00	31.829	31.878	-0.877%	0.049			
120.00	31.667	31.703	-0.877%	0.036	L=68.892m	R=5000.000 L=88.811 G=-2.653% L=41.608	[Diagram showing super-elevation transition]
140.00	31.472	31.527	-0.877%	0.056			
160.00	31.306	31.352	-0.877%	0.046			
180.00	31.170	31.175	-0.965%	0.005			
200.00	30.987	30.942	-1.365%	-0.045			
220.00	30.651	30.629	-1.765%	-0.022			
240.00	30.297	30.236	-2.165%	-0.061			
260.00	29.816	29.783	-2.565%	-0.033			
280.00	29.283	29.234	-2.653%	-0.029			
300.00	28.710	28.543	-2.653%	-0.006			

**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - MAINROAD
(SCALE H=1:2500, V=1:500)**

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	GRADIENT	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	35.547	32.692	-0.895%	0.690	R=720.000m L=51.722m	R=18200.000 L=118.448 G=-1.546% L=12.234	[Diagram showing super-elevation transition]
20.00	32.752	32.742	-1.005%	-0.009			
40.00	32.568	32.530	-1.115%	-0.038	R=921.119m L=185.826m	R=2000.000 L=58.785 G=1.393% L=106.386	[Diagram showing super-elevation transition]
60.00	32.344	32.296	-1.225%	-0.047			
80.00	32.100	32.040	-1.335%	-0.059	R=156.000m L=67.291m	R=3000.000 L=29.446 G=0.412% L=86.371	[Diagram showing super-elevation transition]
100.00	31.805	31.762	-1.445%	-0.043			
120.00	31.490	31.462	-1.546%	-0.028			
140.00	31.238	31.175	-1.980%	-0.063			
160.00	31.135	31.059	-0.980%	-0.076			
180.00	31.166	31.143	0.920%	-0.023			
200.00	31.357	31.399	1.393%	0.042			
220.00	31.620	31.678	1.393%	0.057			
240.00	31.904	31.956	1.393%	0.022			
260.00	32.263	32.235	1.393%	-0.028			
280.00	32.526	32.513	1.393%	-0.013			
300.00	32.747	32.789	1.255%	0.042			
320.00	32.996	32.973	0.588%	-0.022			
340.00	33.451	33.461	0.412%	-0.391			
360.00	33.637	33.143	0.412%	-0.294			
380.00	33.336	33.225	0.412%	-0.111			
400.00	33.698	33.307	0.412%	-0.391			
411.67	35.345	33.355	0.412%	0.610			

**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - SB OFFSLIP
(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	CA	RM	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
JUNCTION 19 SECTION 1
SOUTHBOUND OFFSLIP &
B1137 MAIN LINK - SHEET 2 OF 5**

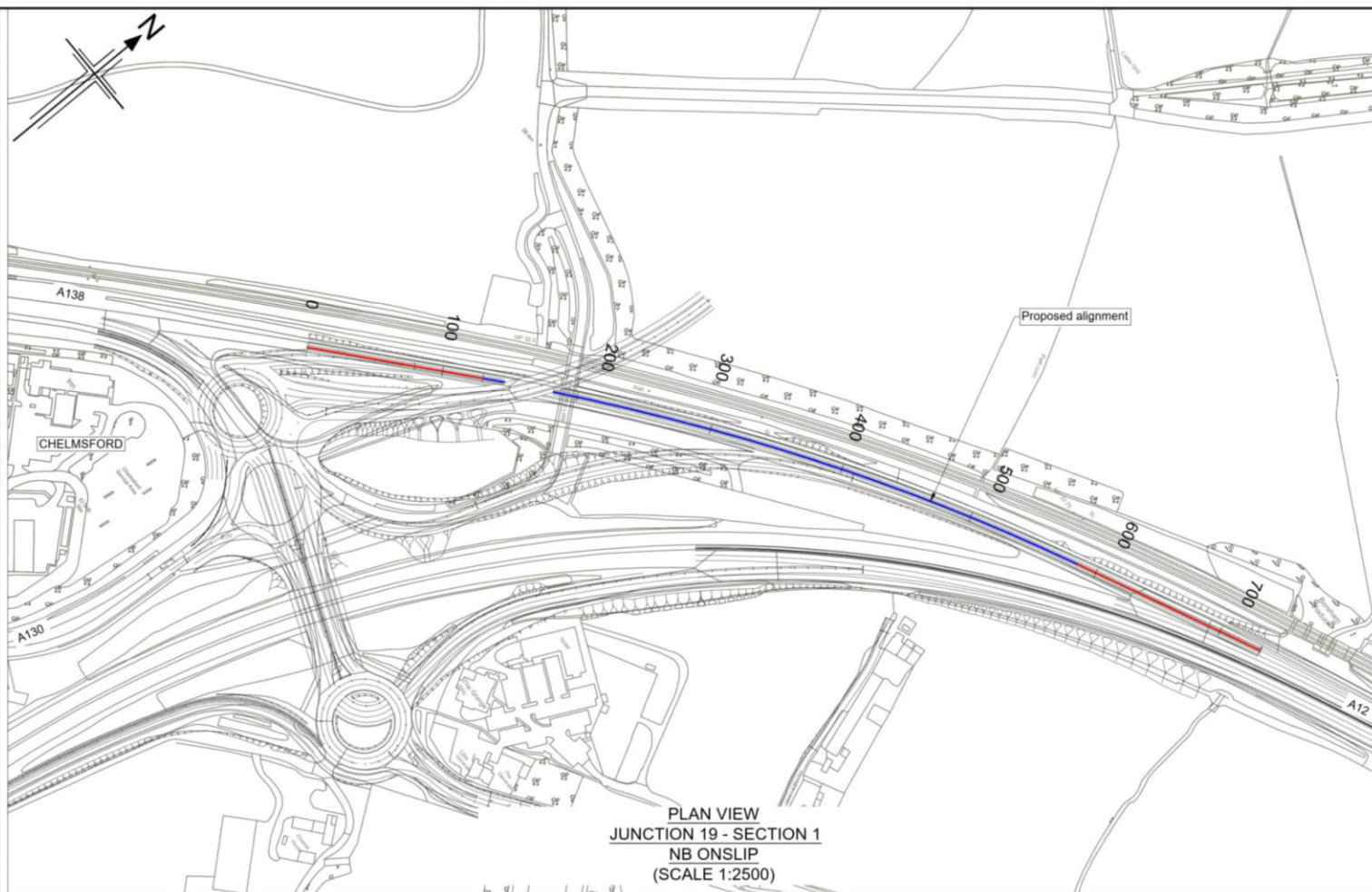
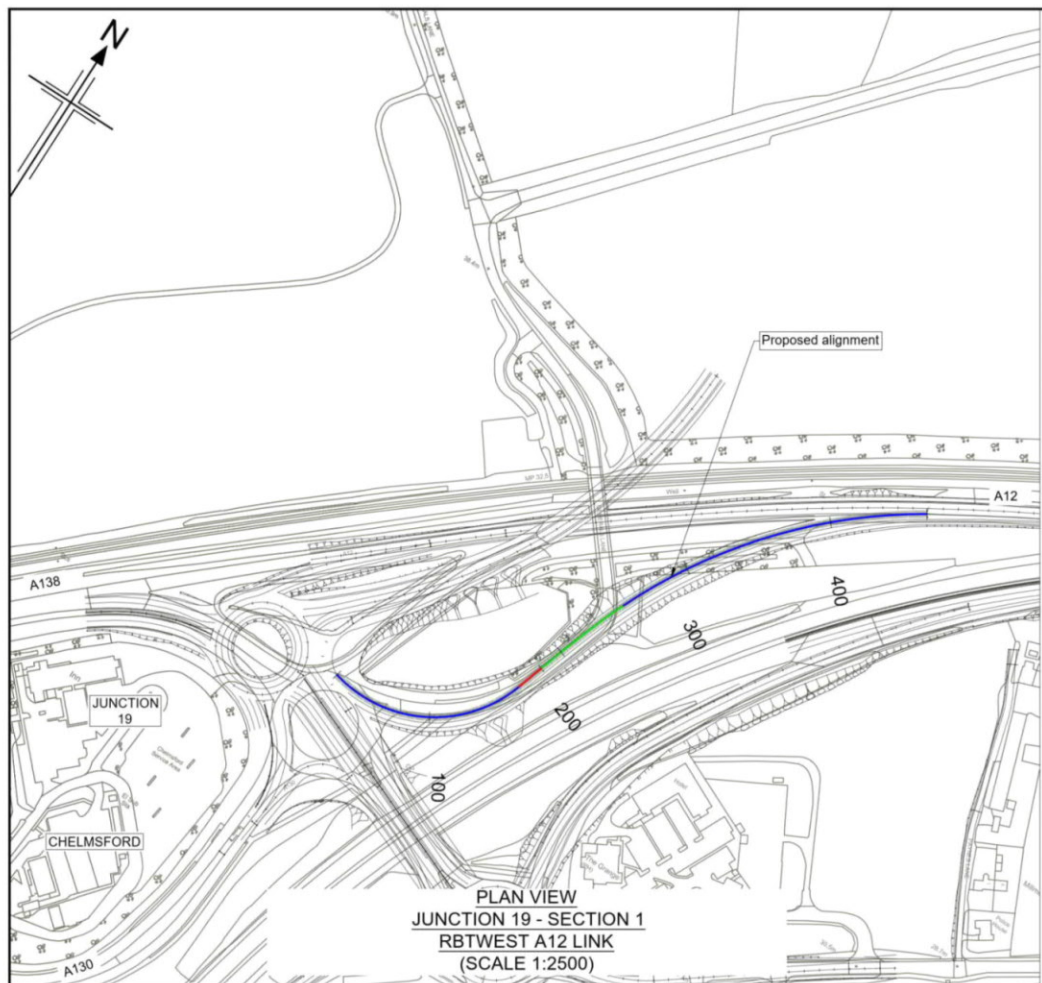
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
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Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S1 J19 - DR - C -0002**

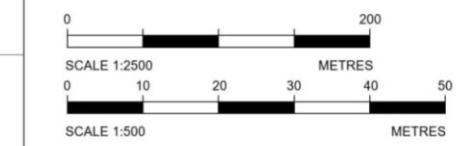
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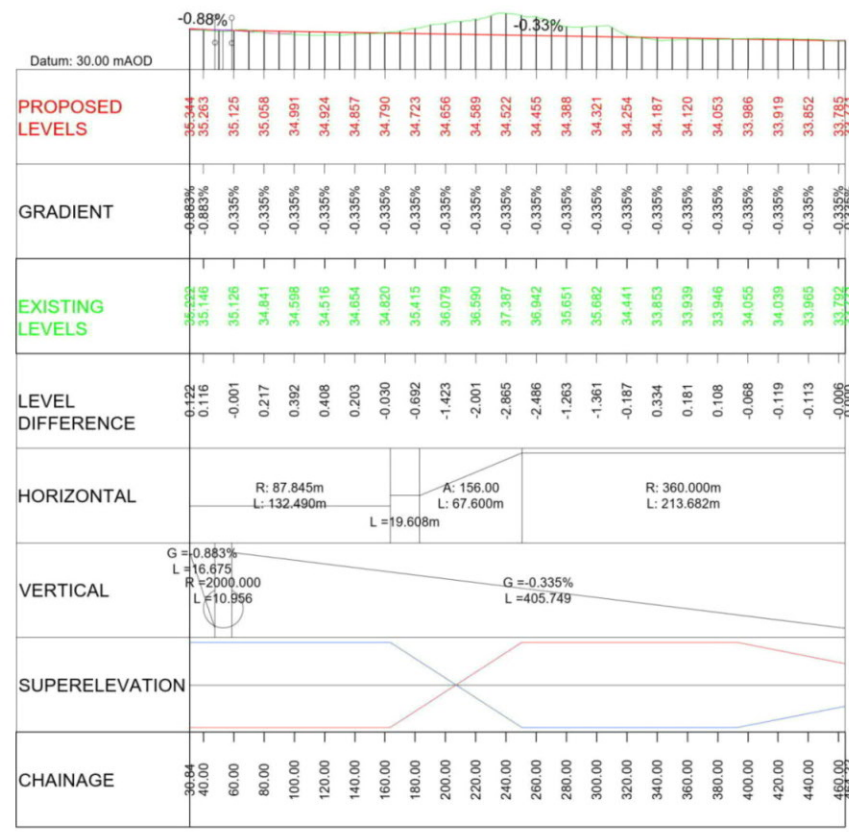


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 - HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

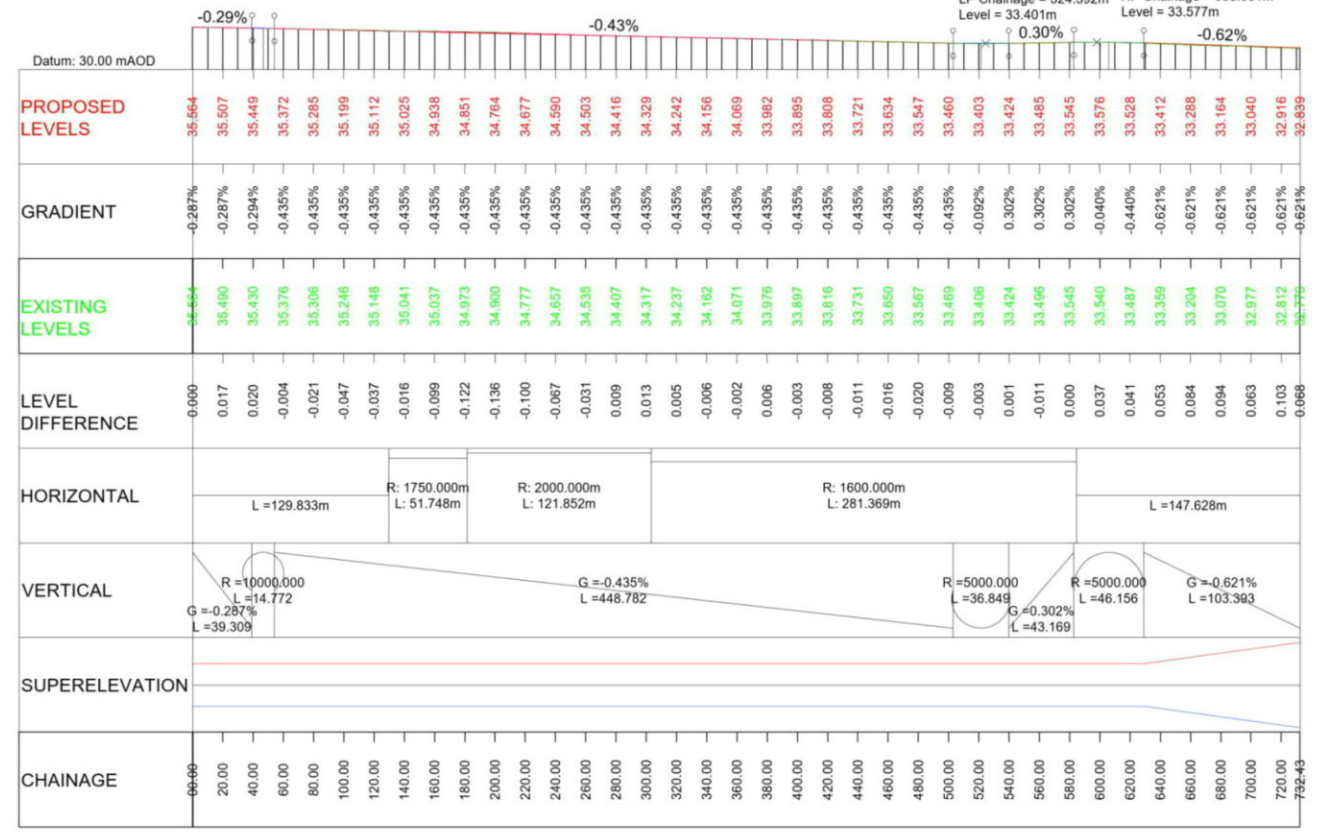
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



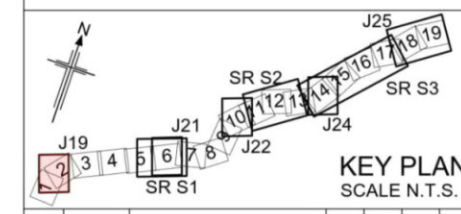
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LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBTWEST A12 LINK
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - NB ONSLIP
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	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

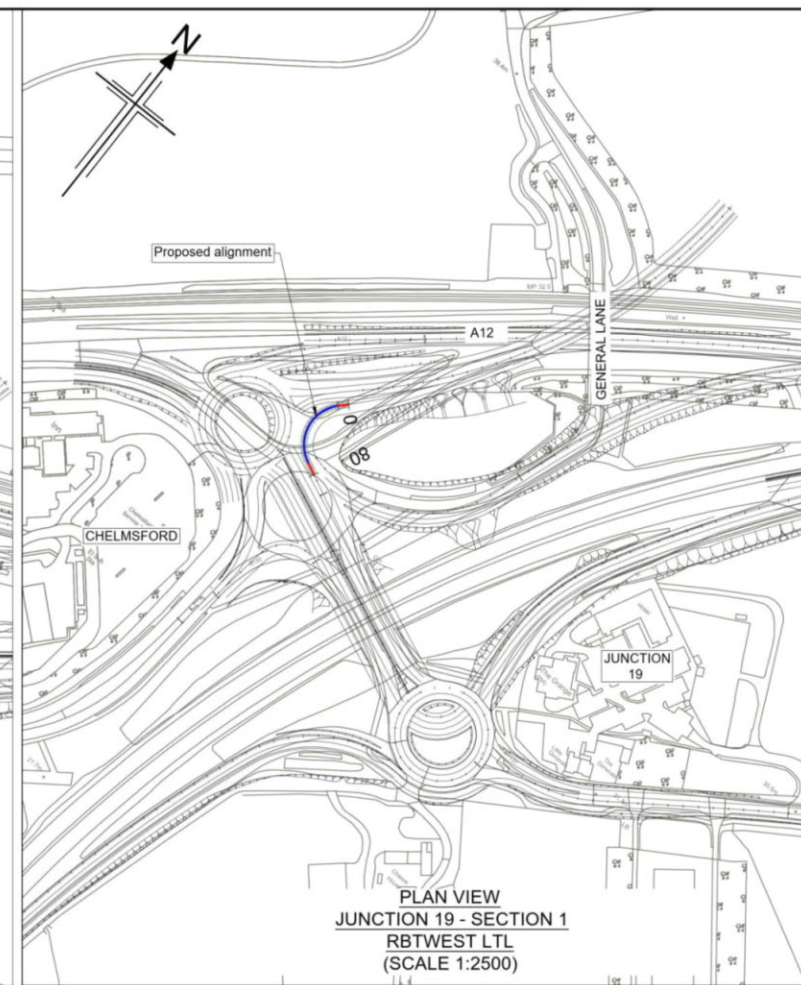
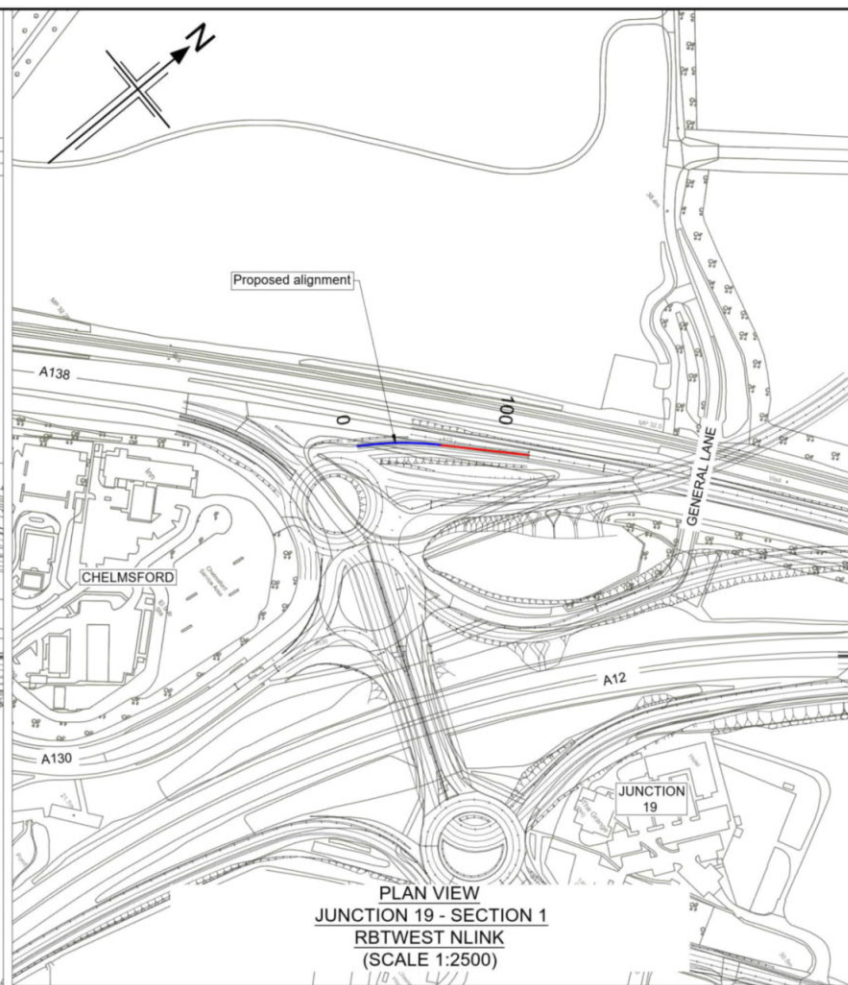
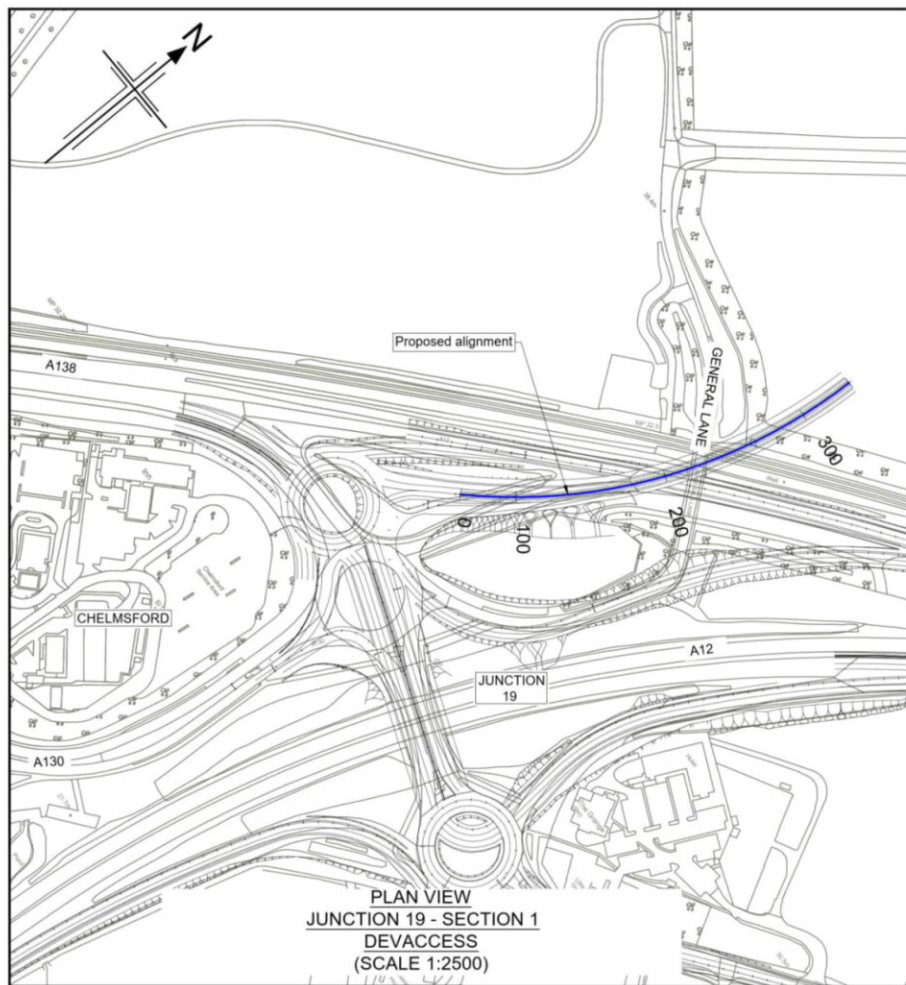
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JUNCTION 19 SECTION 1
NORTHBOUND ONSLIP &
RBTWEST A12LINK - SHEET 3 OF 5**

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

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

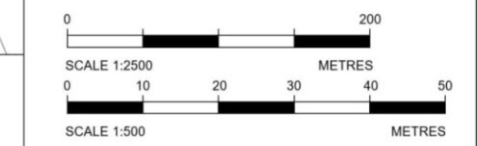
Drawing number: **HE551497 - JAC - HSR - S1 J19 - DR - C -0003**

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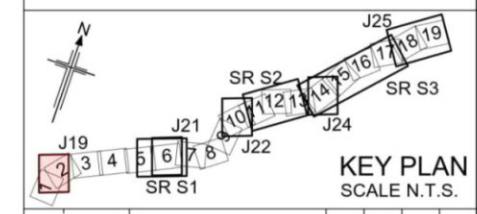


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 - HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

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



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

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Coltons Centre, Coltons Lane
 London SE1 2QS. Tel: +44 (0)203 9802000
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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

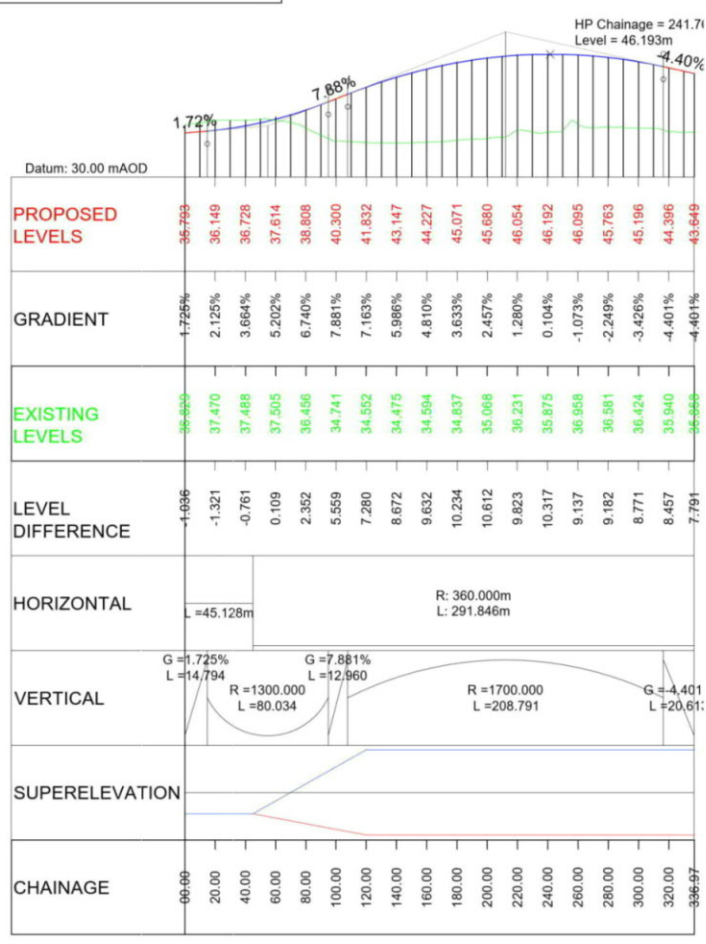
Drawing title: PLAN AND PROFILE
 JUNCTION 19 SECTION 1
 MAINROAD
 SHEET 4 OF 5

Drawing status: S2 - SUITABLE FOR INFORMATION

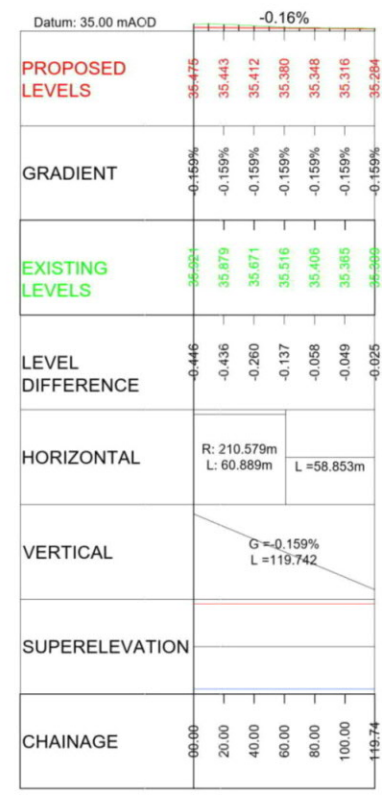
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Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

Drawing number: HE551497 - JAC - HSR - S1 J19 - DR - C - 0004

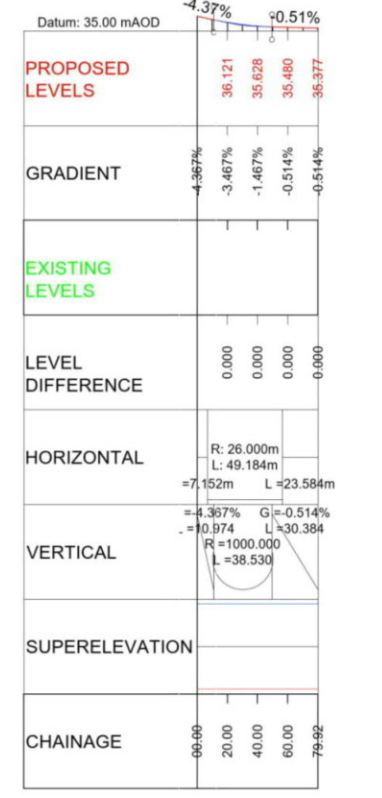
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LONGITUDINAL SECTION
 JUNCTION 19 - SECTION 1 - DEVACCESS
 (SCALE H=1:2500, V=1:500)

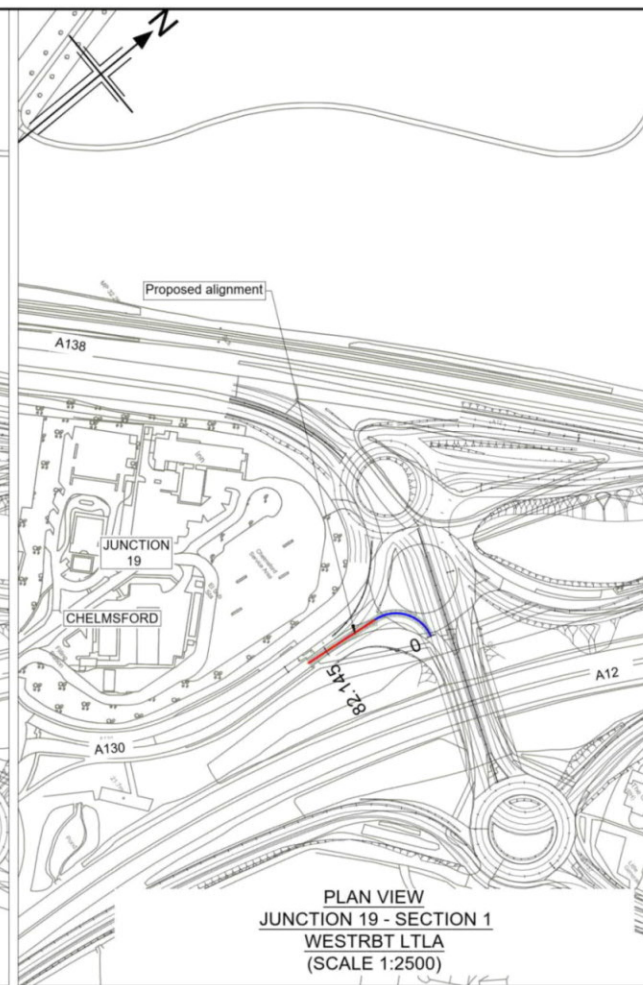
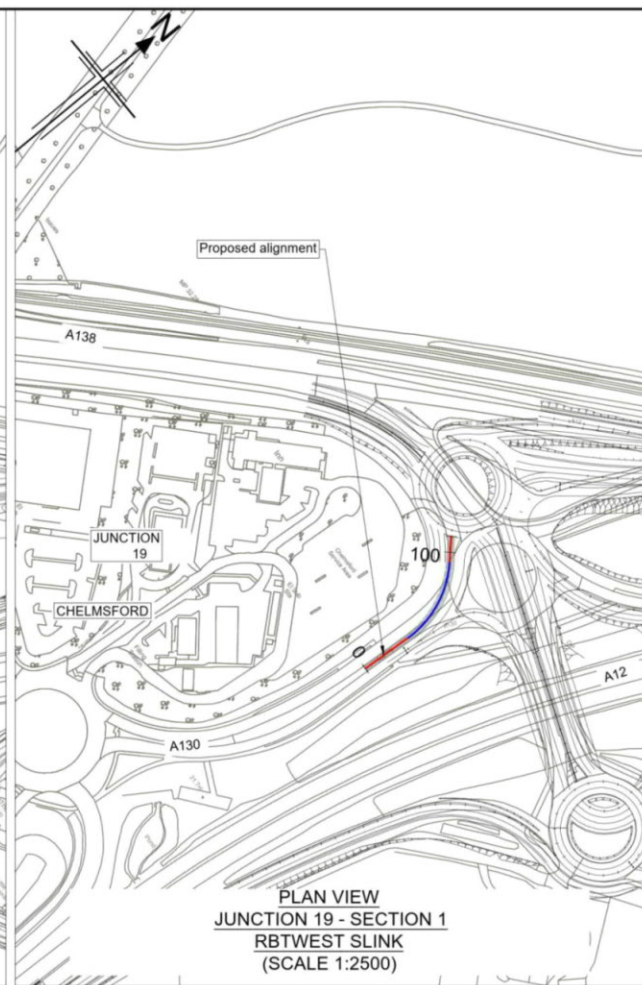
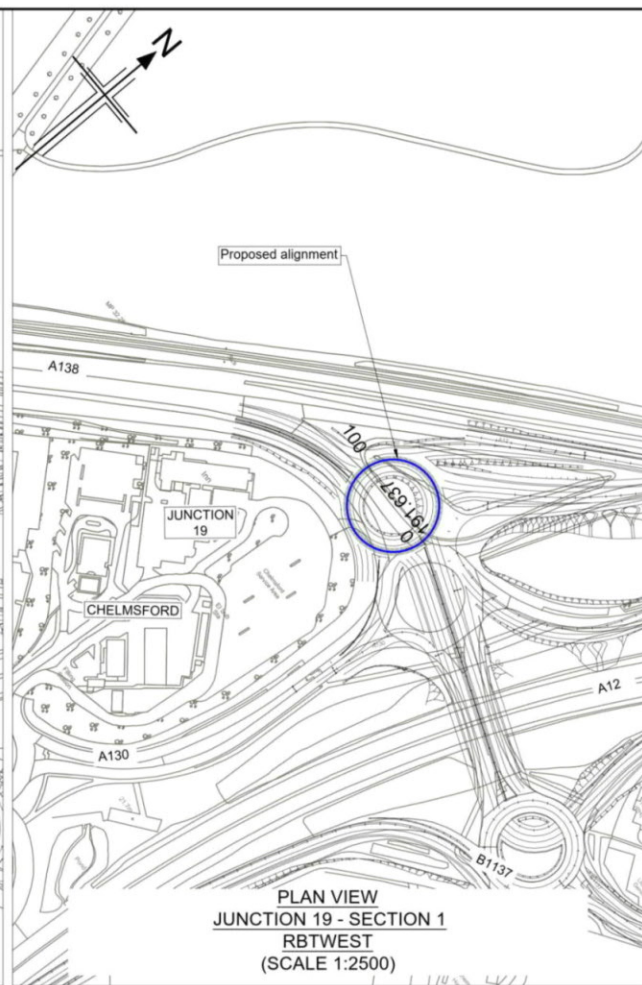
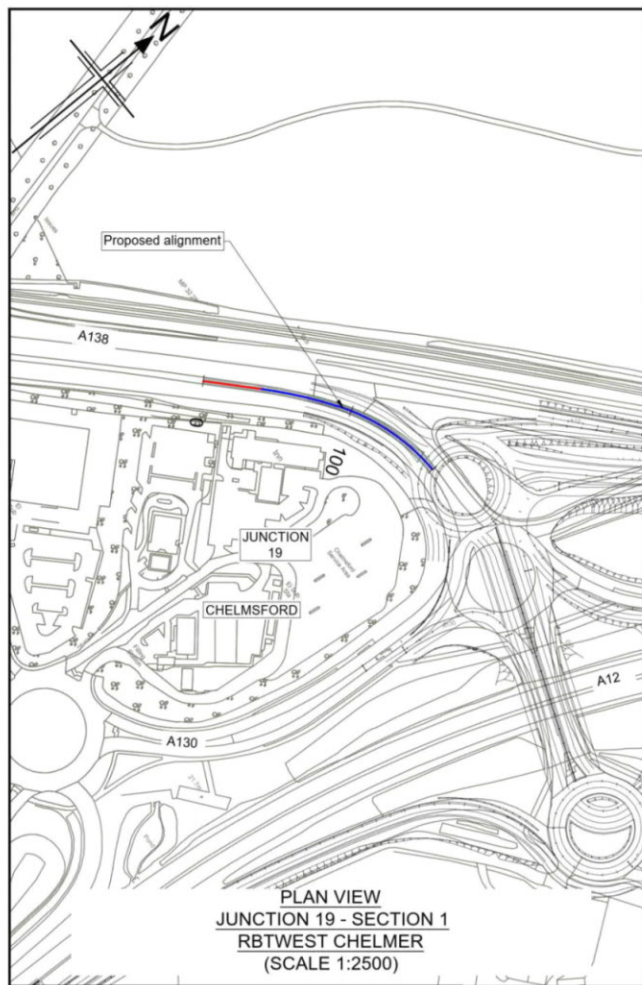


LONGITUDINAL SECTION
 JUNCTION 19 - SECTION 1 - RBTWEST NLINK
 (SCALE H=1:2500, V=1:500)



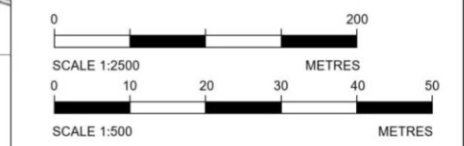
LONGITUDINAL SECTION
 JUNCTION 19 - SECTION 1 - RBTWEST LTL
 (SCALE H=1:2500, V=1:500)

C:\pwworking\jacobs_uk_highways_ssk\khare\015545HE551497-JAC-HSR-S1_J19-DR-C-0004.dwg - 20/05/2021 20:25:06 - A1Frame - KhareR



- Notes**
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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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LP Chainage = 128.064m
Level = 35.229m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	36.134	-0.482%	35.405	-0.646	R=300.000m L=38.968m	G=-1.075% L=17.778 G=-0.482% L=51.198	
20+00	36.037	-0.482%	35.071	-0.034			
40+00	35.941	-0.482%	35.092	-0.051	R=136.956m L=76.493m	G=0.179% L=35.109	
60+00	35.831	-0.776%	35.068	-0.026			
80+00	35.630	-1.075%	35.693	-0.063			
100+00	35.415	-1.075%	35.460	-0.045			
120+00	35.245	-0.403%	35.146	0.099			
140+00	35.247	0.179%	34.932	0.315			
160+00	35.283	0.179%	35.022	0.213			

**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBTWEST CHELMER
(SCALE H=1:2500, V=1:500)**

LP Chainage = 70.624m
Level = 35.169m

HP Chainage = 151.699m
Level = 35.881m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	35.669	-0.694%	35.596	-0.046	L=191.637m	G=-0.691% L=56.812 R=2000.000 L=36.680	
20+00	35.471	-0.691%	35.604	-0.134			
40+00	35.332	-0.691%	35.190	0.143		G=1.143% L=43.452 R=1290.478 L=24.804	
60+00	35.197	-0.531%	35.420	-0.223			
80+00	35.191	0.469%	34.937	0.254			
100+00	35.374	1.143%	35.427	-0.053			
120+00	35.602	1.143%	35.613	-0.210			
140+00	35.628	0.907%	36.596	-0.758			
160+00	35.854	-0.643%	37.596	-1.742			
180+00	35.699	-0.779%	36.618	-0.920			
19+56	35.669	-0.779%	35.559	-0.910			

**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBTWEST
(SCALE H=1:2500, V=1:500)**

Datum: 25.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	33.407	4.465%	33.407	0.000	R=67.500m L=34.242m	R=2000.000 L=75.766 G=0.671% L=35.690	
20+00	33.948	3.740%	33.989	-0.041			
40+00	34.596	3.240%	34.611	-0.015	L=59.081m L=23.915m		
60+00	35.044	2.740%	35.020	0.024			
80+00	35.292	1.240%	35.253	0.038			
100+00	35.427	0.671%	35.426	0.000			

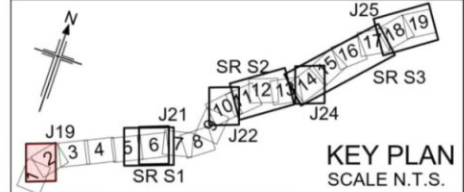
**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - RBTWEST SLINK
(SCALE H=1:2500, V=1:500)**

Datum: 30.00 mAOD

HP Chainage = 35.658m
Level = 35.179m

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	35.667	0.662%	34.466	0.467	R=25.000m L=43.576m	R=1000.000 L=38.931 G=0.522% L=30.436 G=-3.371% L=12.778	
20+00	35.111	0.522%	34.662	0.249			
40+00	35.170	-0.434%	35.251	-0.082			
60+00	34.883	-2.434%	34.668	0.015			
80+00	34.180	-3.371%	34.270	-0.089			

**LONGITUDINAL SECTION
JUNCTION 19 - SECTION 1 - WESTRBT LTLA
(SCALE H=1:2500, V=1:500)**



PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	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 Coltons Centre, Coltons Lane
London SE1 2QS. 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
JUNCTION 19 SECTION 1
RBTWEST LTL
SHEET 5 OF 5**

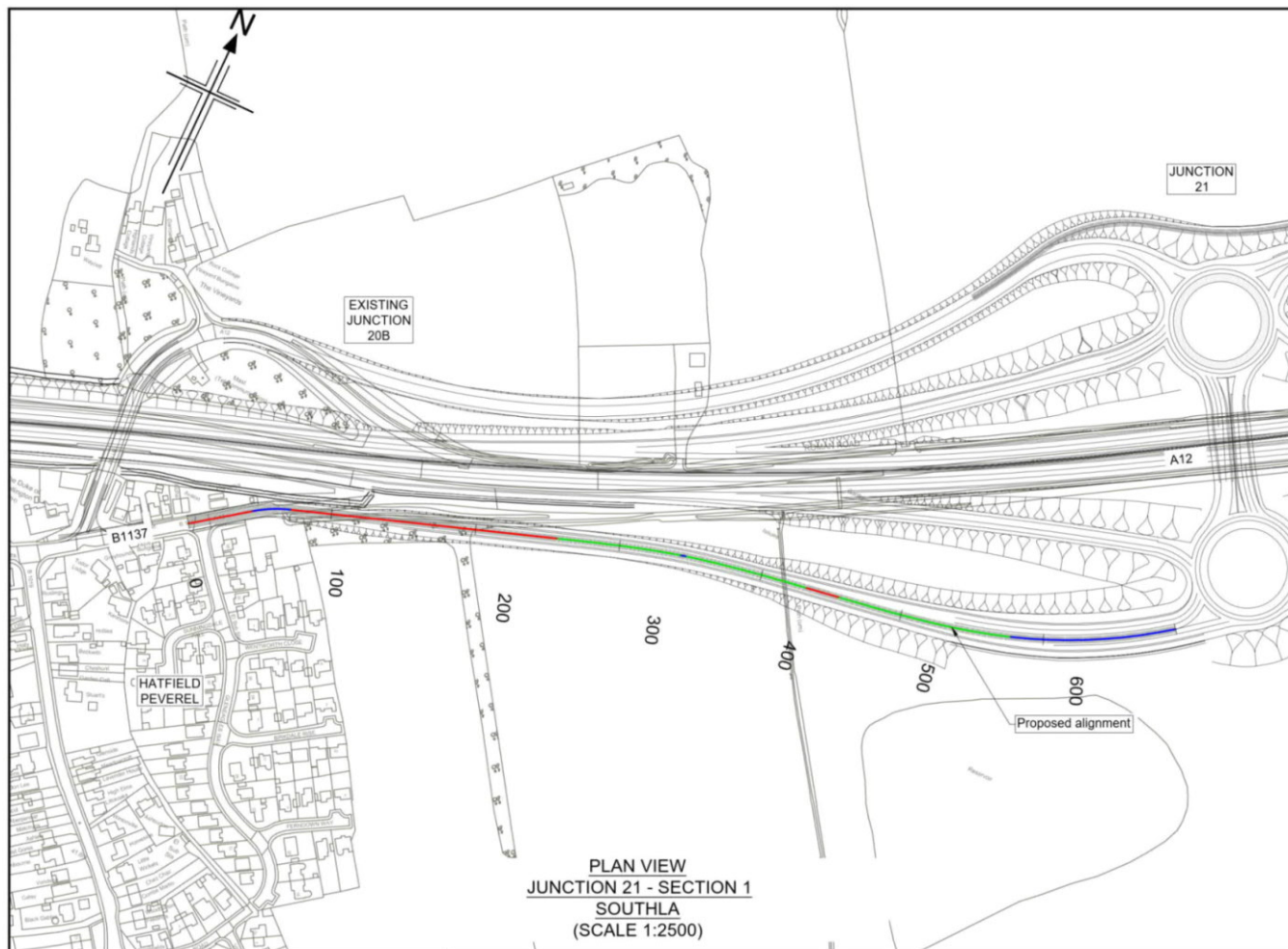
Drawing status: **S2 - SUITABLE FOR INFORMATION**

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

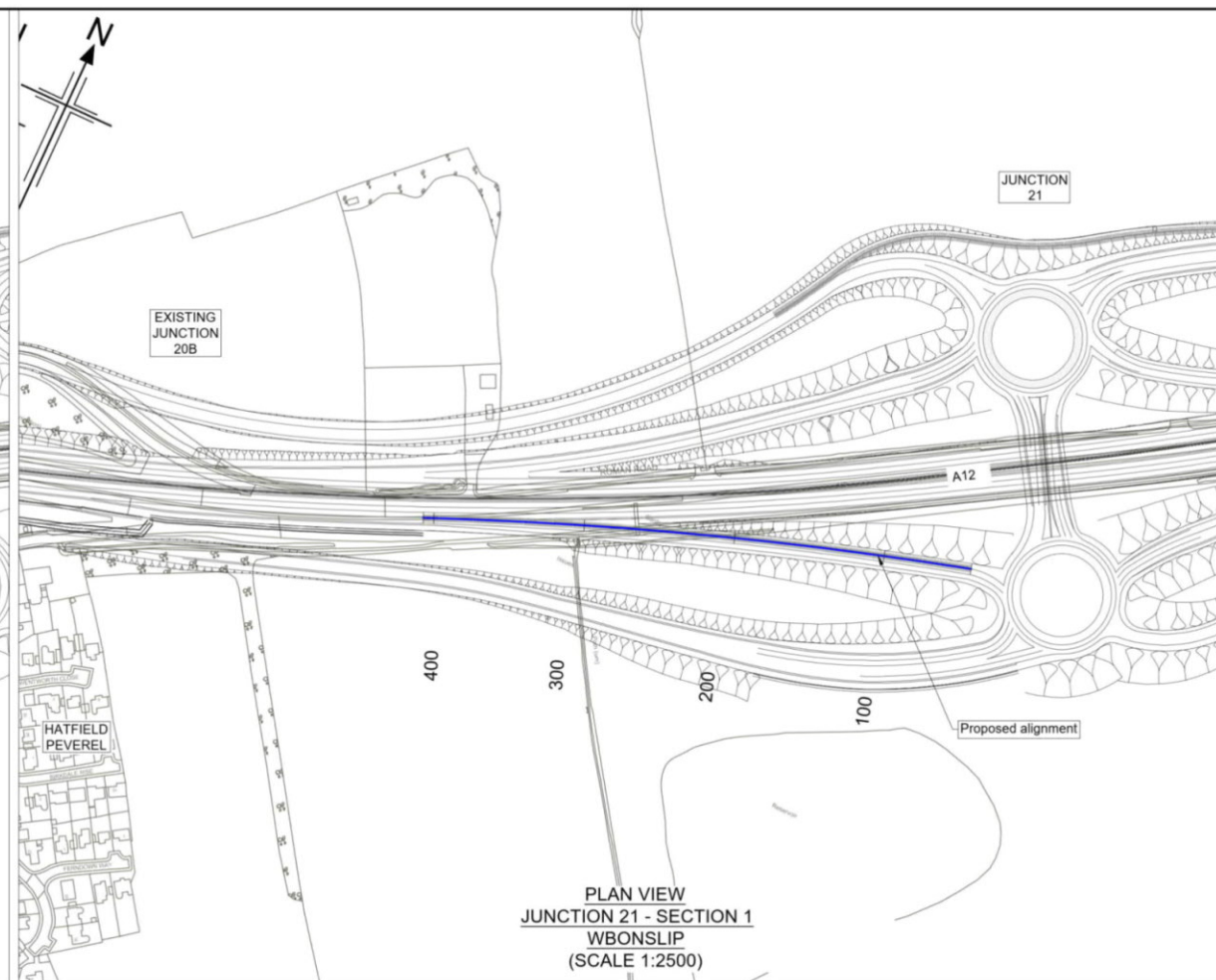
Drawing number: **HE551497 - JAC - HSR - S1 J19 - DR - C - 0005**

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PLAN VIEW
JUNCTION 21 - SECTION 1
SOUTHLA
(SCALE 1:2500)



PLAN VIEW
JUNCTION 21 - SECTION 1
WBONSLIP
(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.

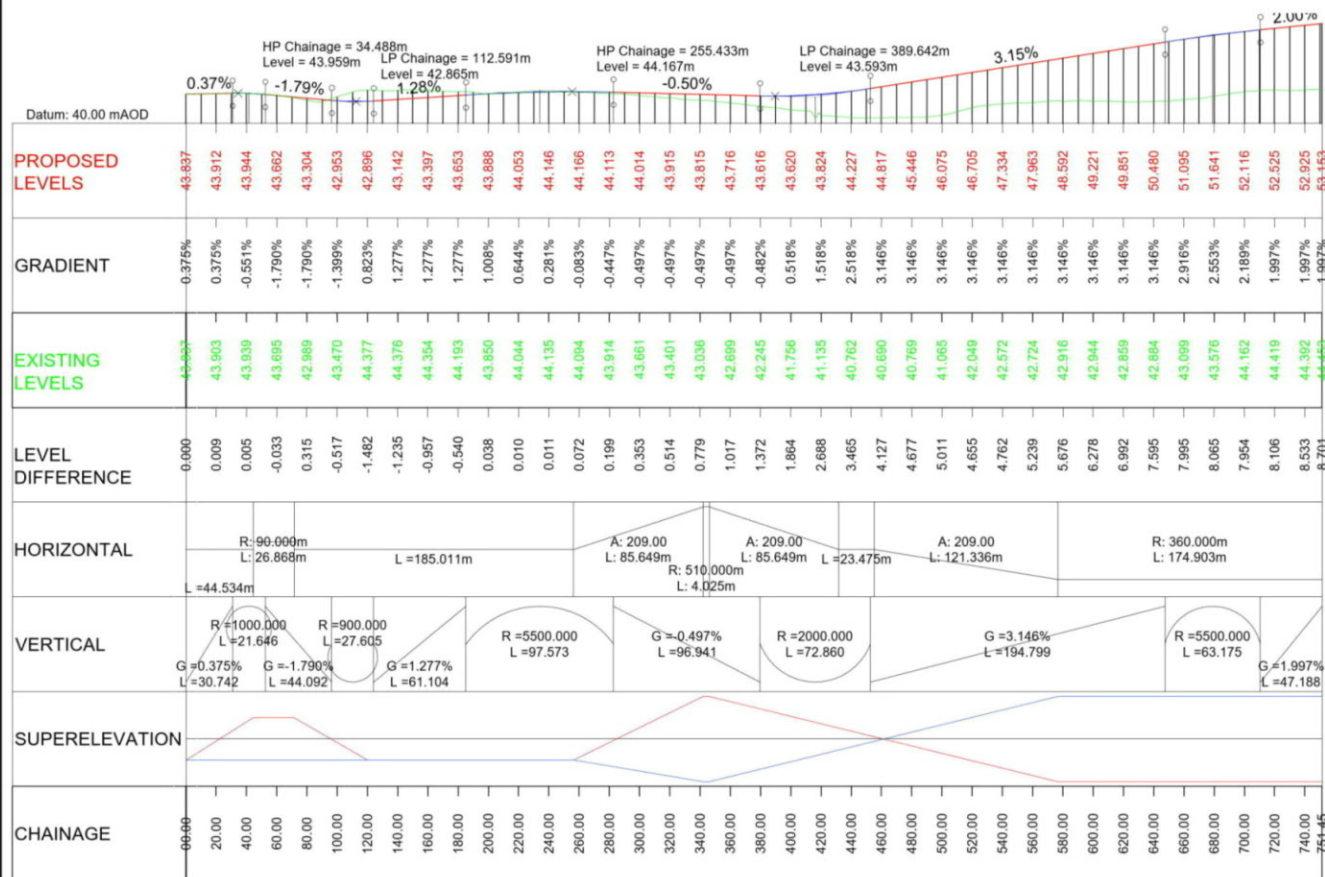
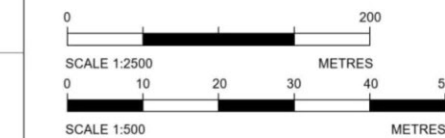
Key

PLAN

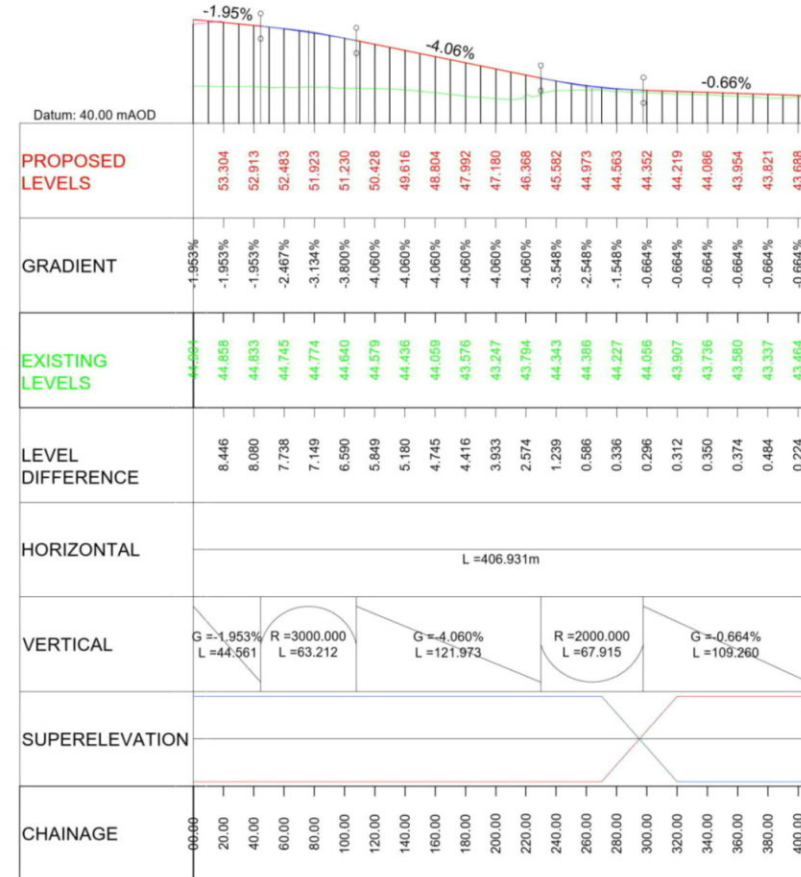
- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

PROFILE

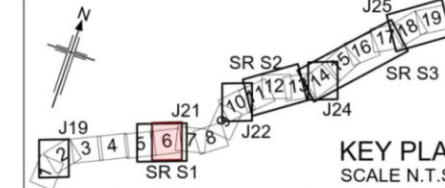
- Existing ground
- Proposed ground (constant gradient)
- Proposed ground (vertical curve)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - SOUTHLA
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - WBONSLIP
(SCALE H=1:2500, V=1:500)



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

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

Client: **highways england**

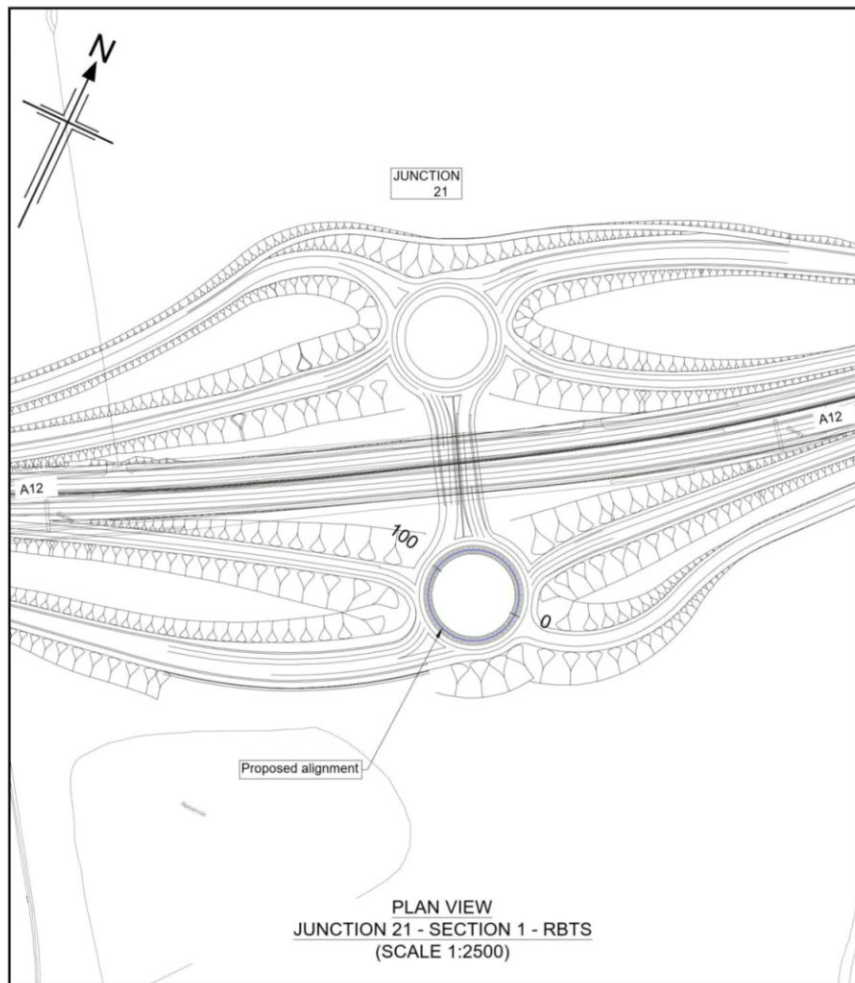
Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: PLAN AND PROFILE
JUNCTION 21 SECTION 1
SOUTHLA
SHEET 1 OF 5

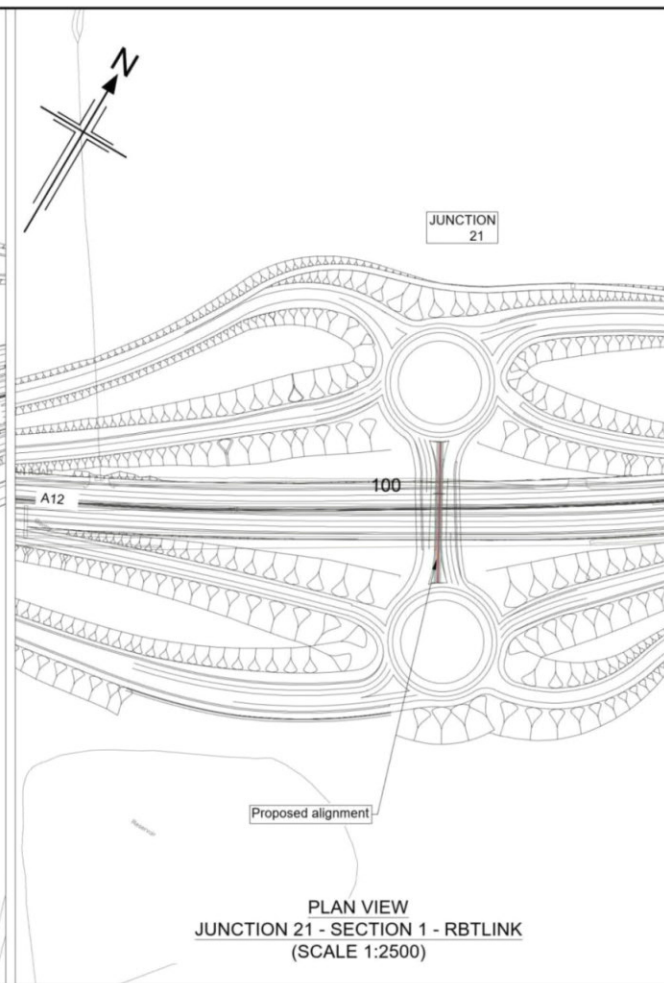
Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	HE551497 - JAC - HSR - S1_J21 - DR - C - 0001

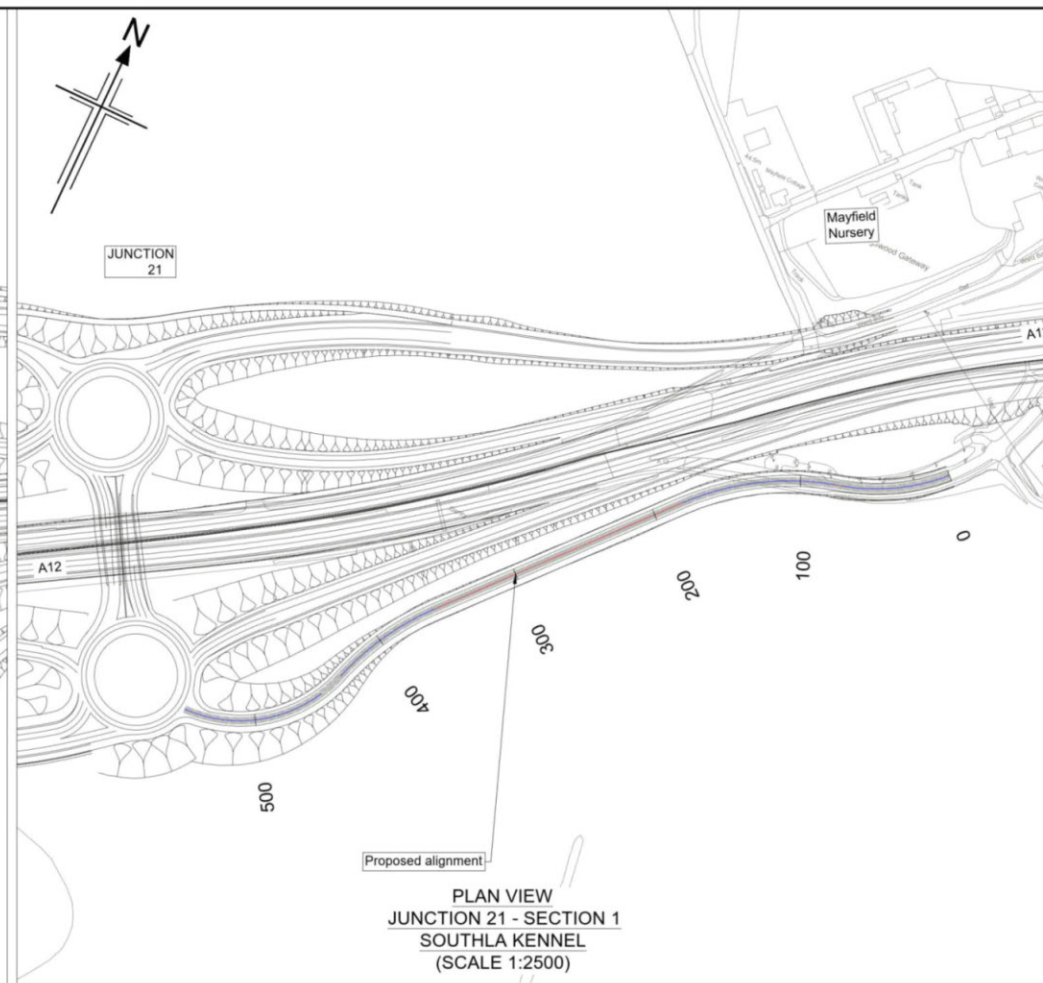
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PLAN VIEW
JUNCTION 21 - SECTION 1 - RBTS
(SCALE 1:2500)



PLAN VIEW
JUNCTION 21 - SECTION 1 - RBTLINK
(SCALE 1:2500)

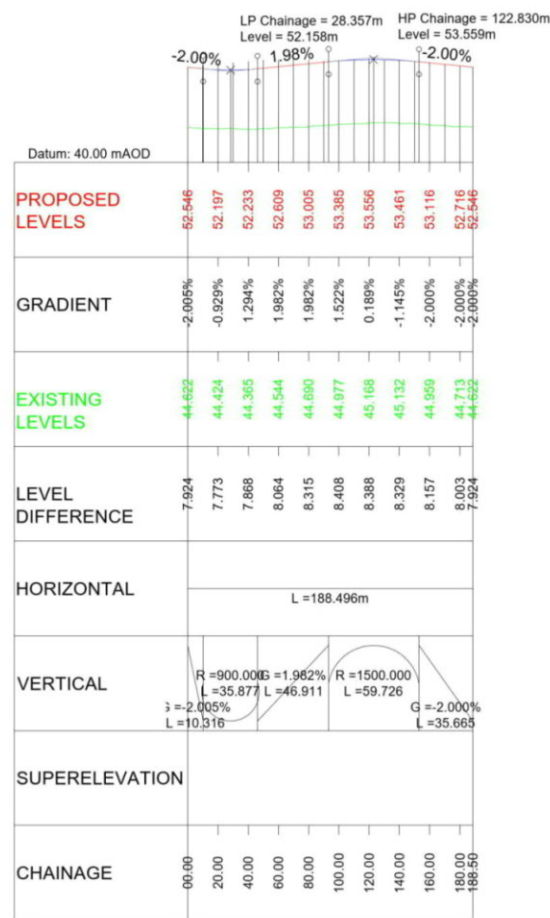
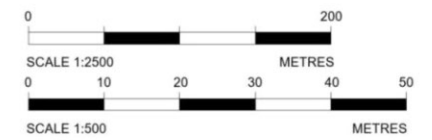


PLAN VIEW
JUNCTION 21 - SECTION 1
SOUTHLA KENNEL
(SCALE 1:2500)

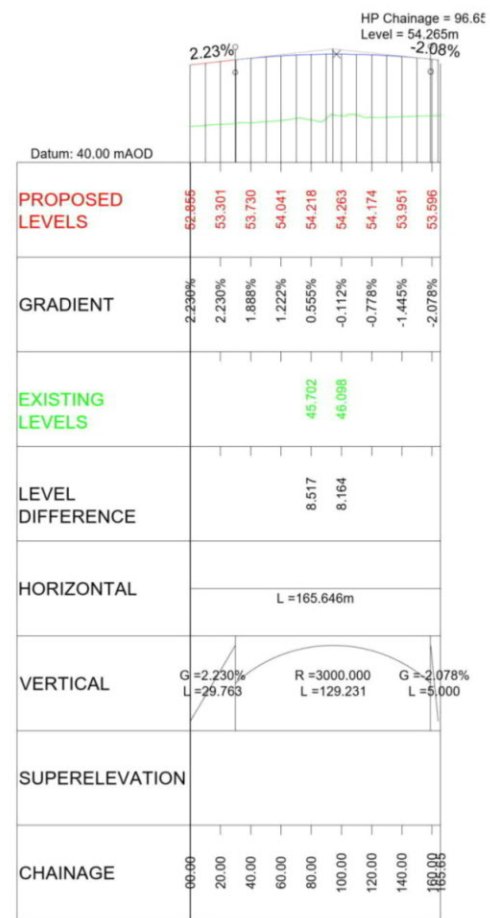
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 - HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
 - HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

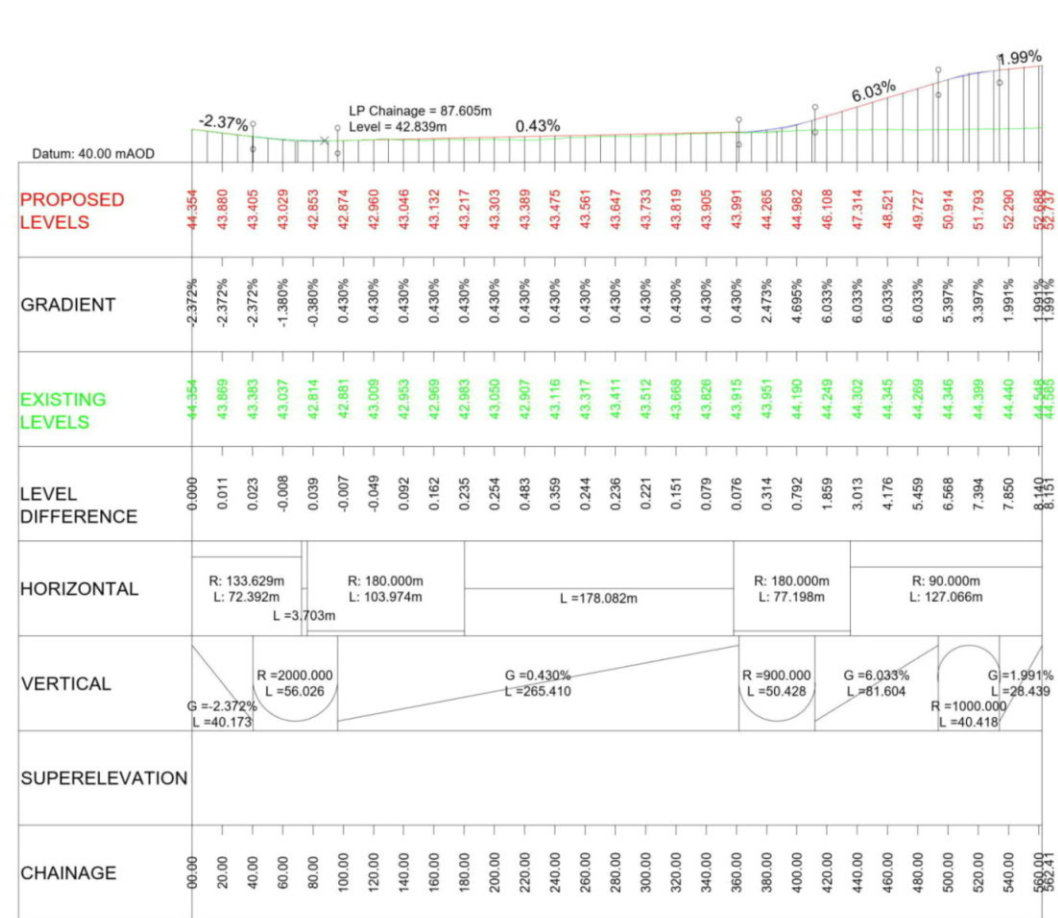
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



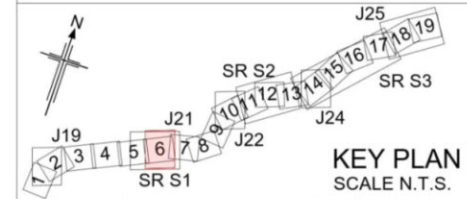
LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - RBTS
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - RBTLINK
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - SOUTHLA KENNEL
(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	CA	RM	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
P03	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **JACOBS**
 2nd Floor Colsons Centre, Colsons Lane
 London SE1 2QS. Tel: +44 (0)203 980200
 www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
JUNCTION 21 SECTION 1
SOUTHLA KENNEL
SHEET 2 OF 5**

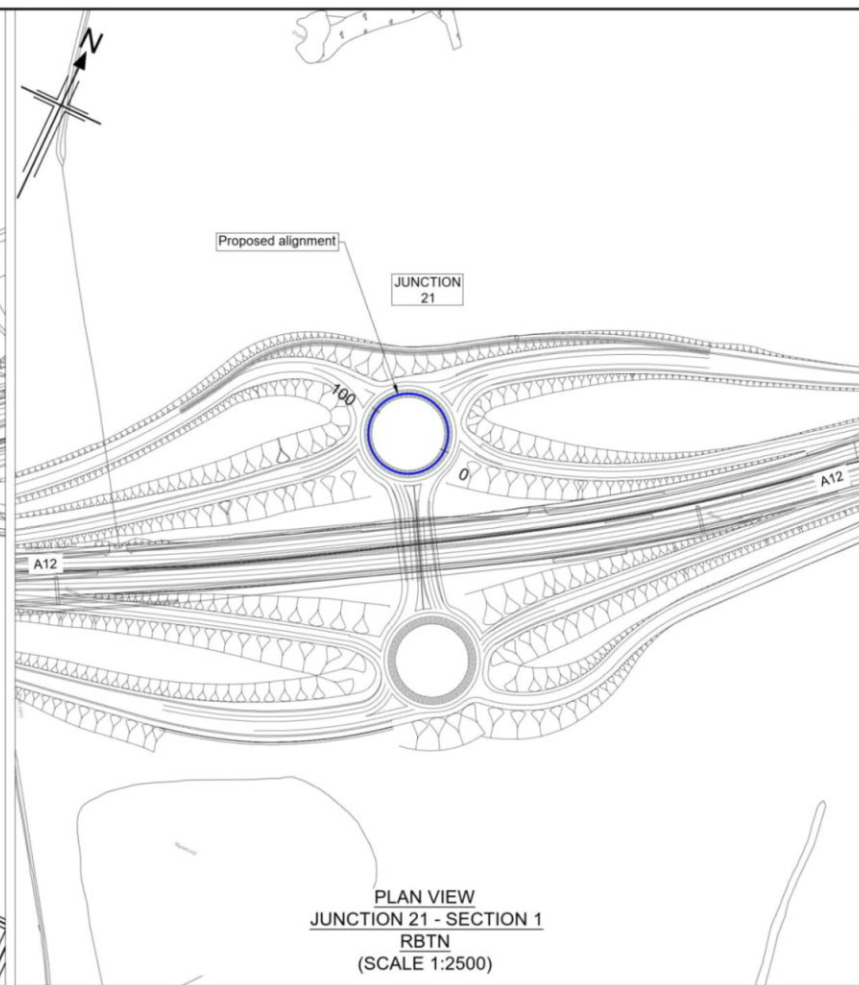
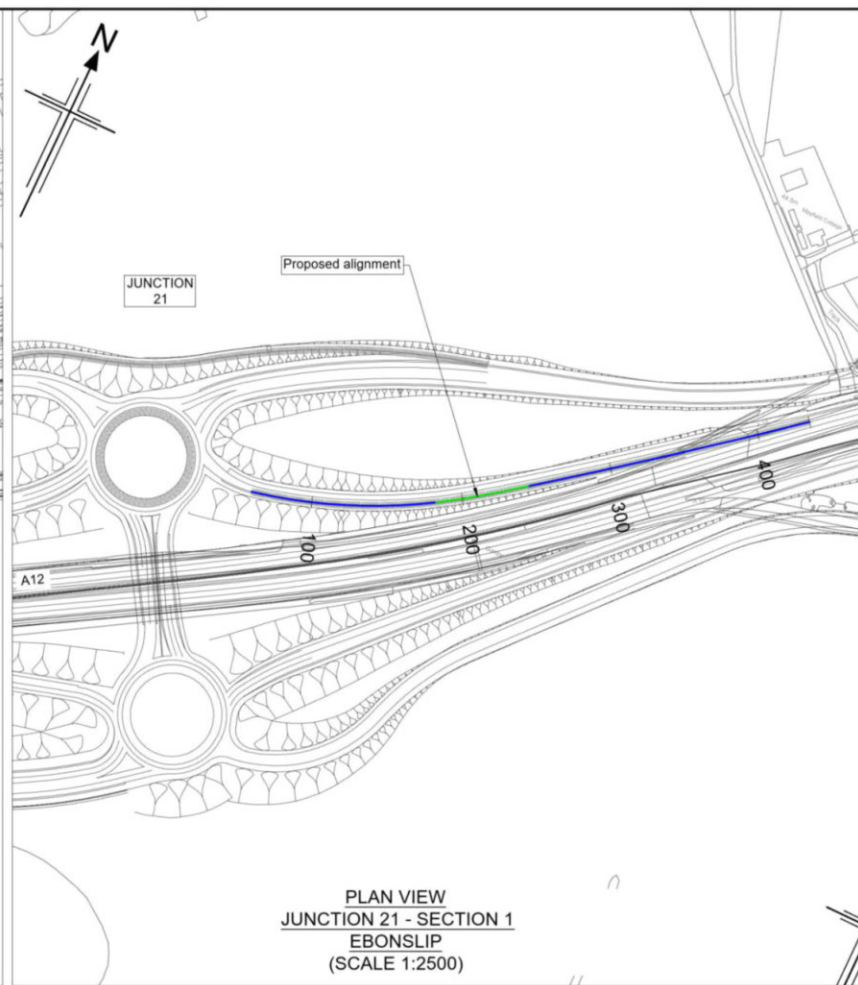
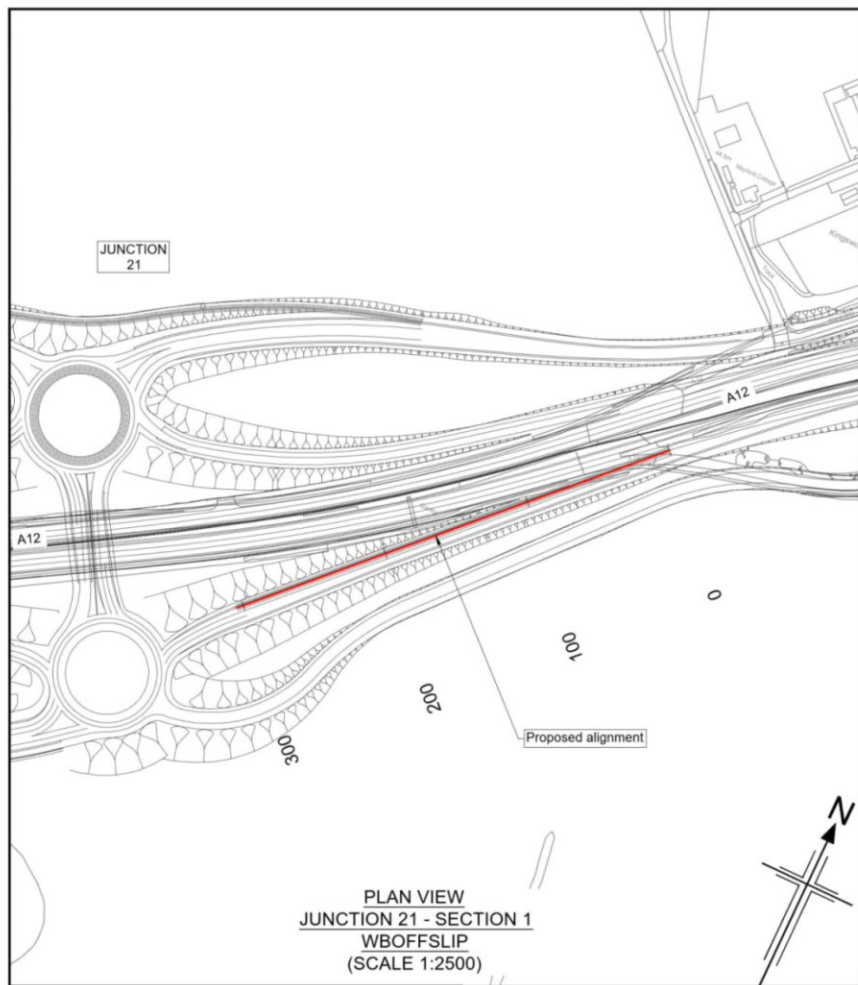
Drawing status: **S2 - SUITABLE FOR INFORMATION**

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

Drawing number: **HE551497 - JAC - HSR - S1 J21 - DR - C - 0002**

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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

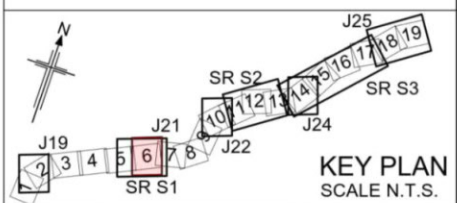
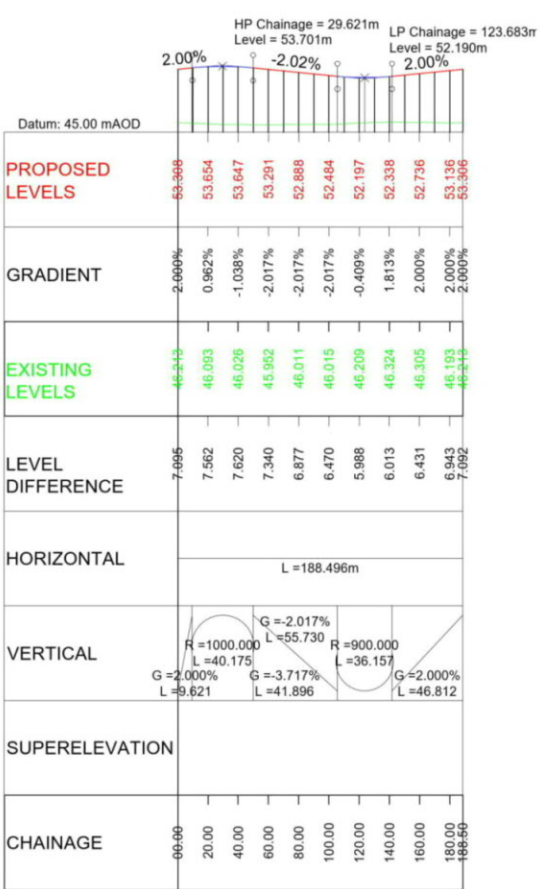
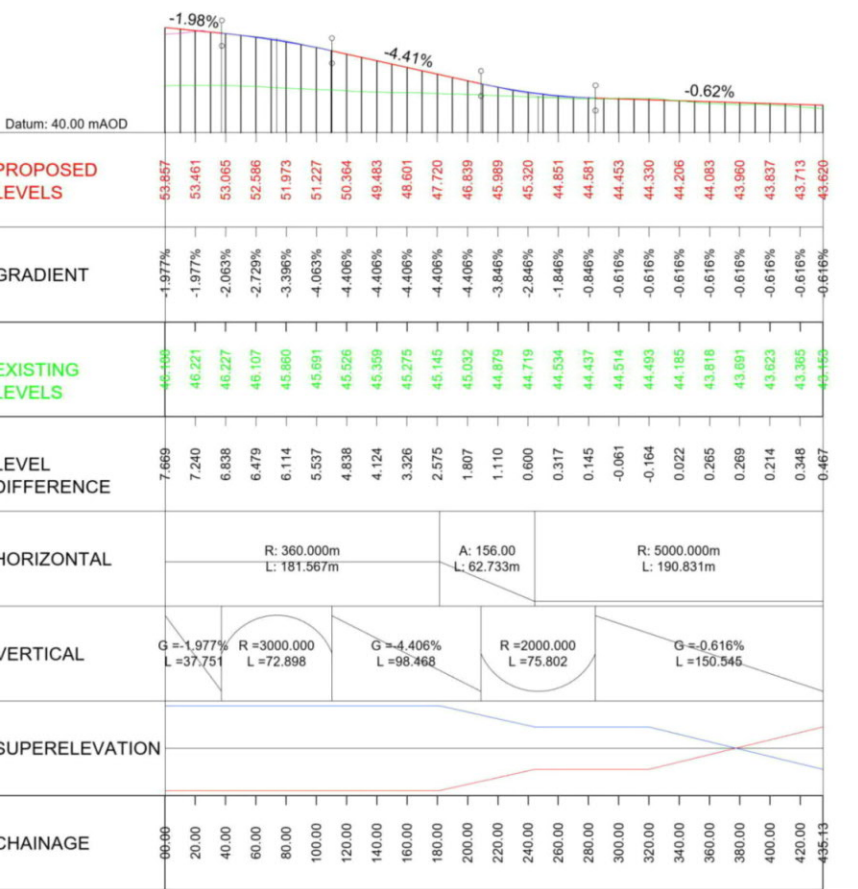
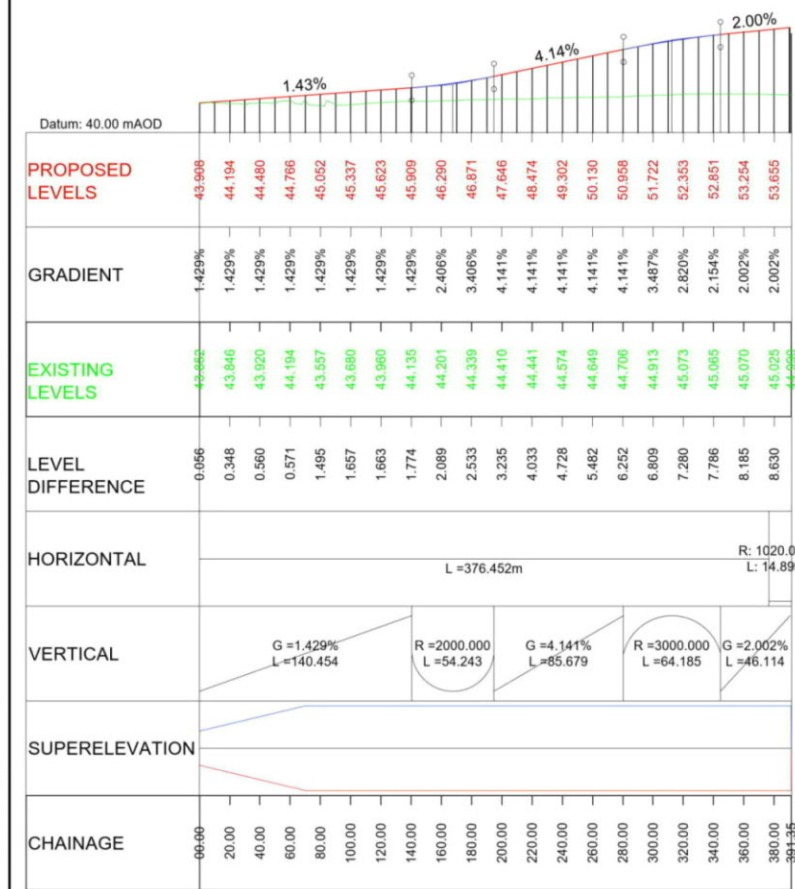
PROFILE

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

0 10 20 30 40 50
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES

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PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	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 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
JUNCTION 21 SECTION 1
RBTN
SHEET 3 OF 5**

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

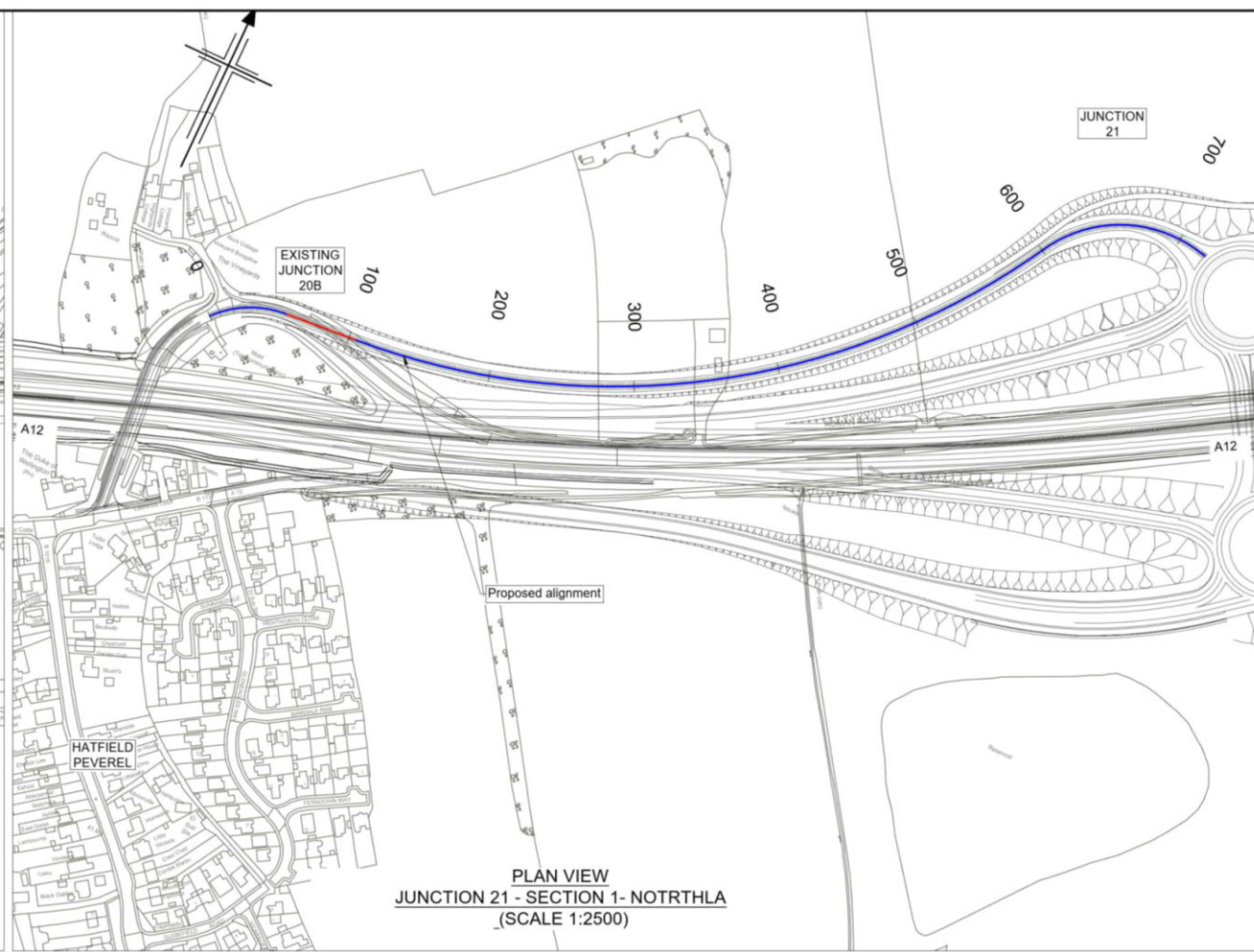
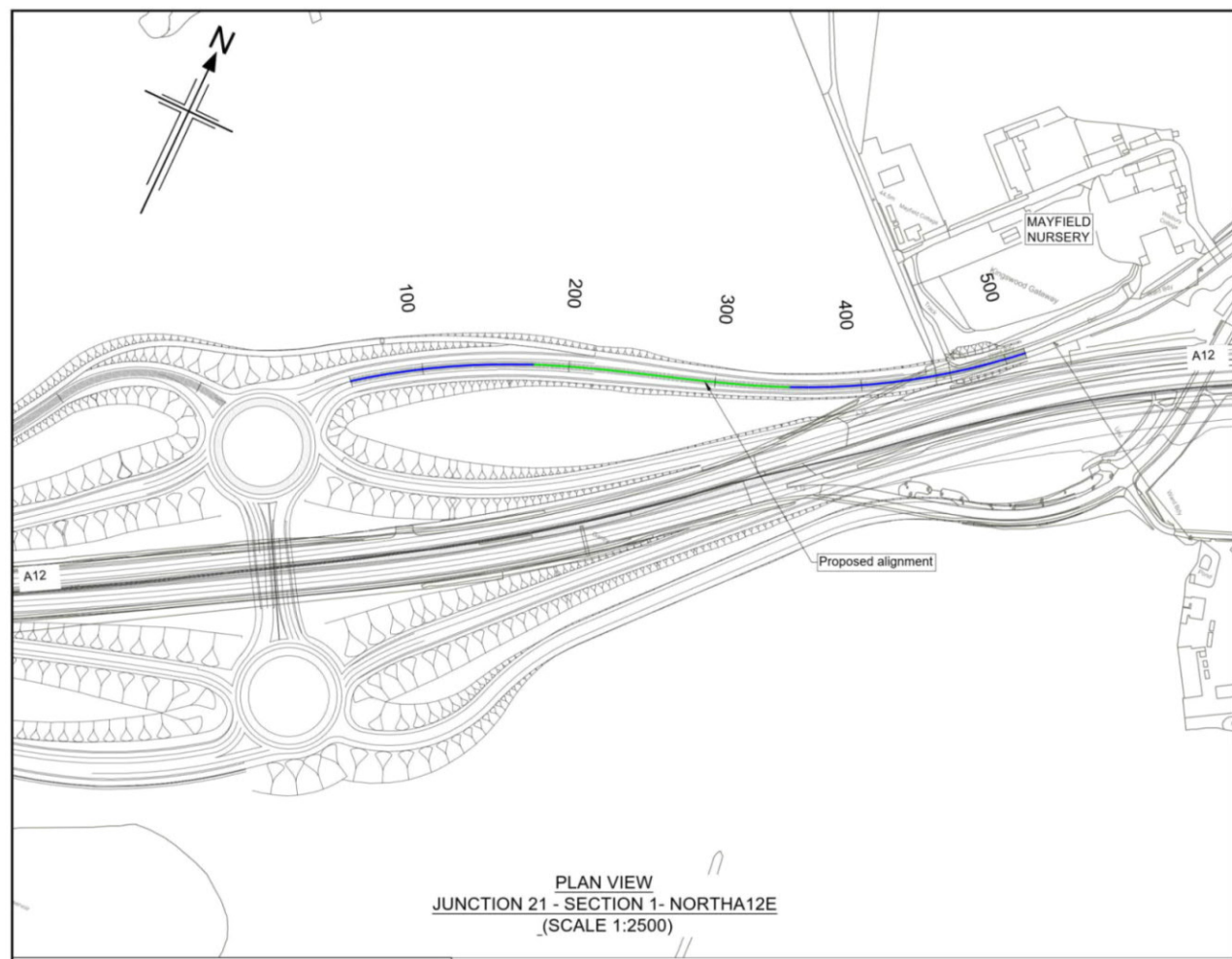
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

DO NOT SCALE
Rev P02

Drawing number: **HE551497 - JAC - HSR - S1 J21 -DR- C -0003**

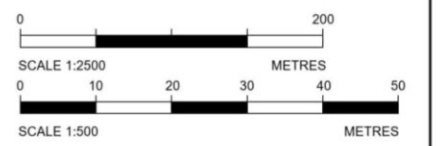
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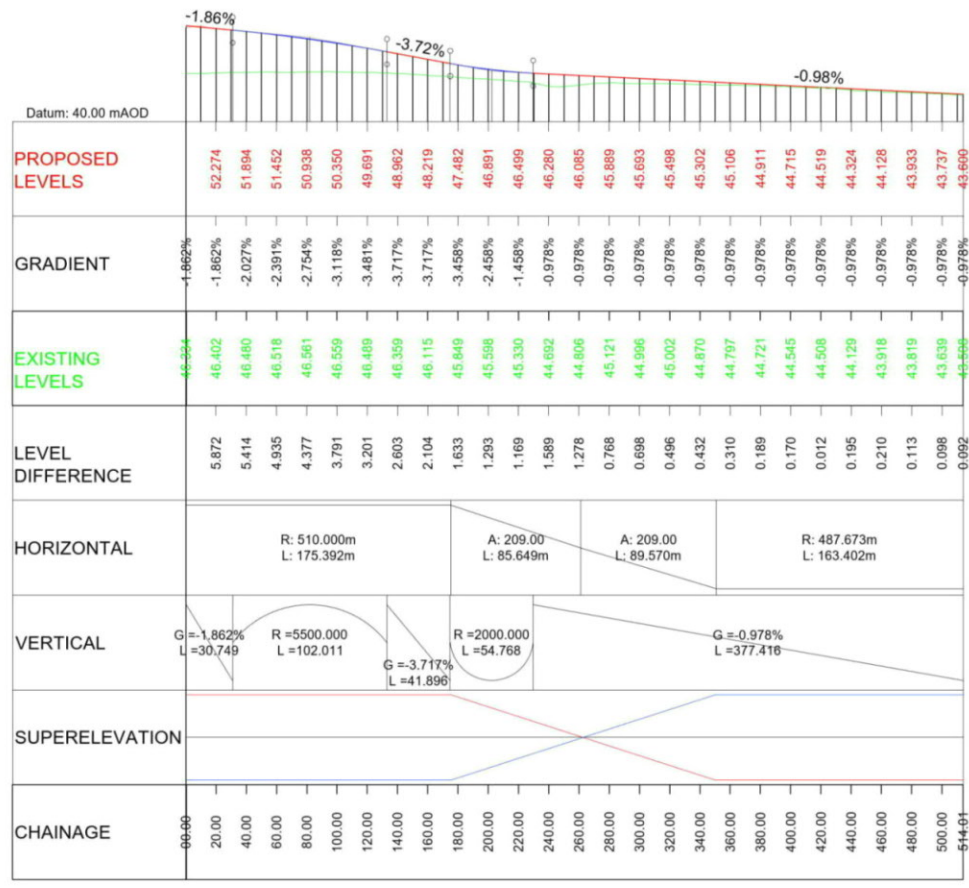
- Notes
1. This drawing shall only be used for the design element stated in the drawing title.
 2. All dimensions are in metres unless noted otherwise.
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 - HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
 - HE551497-JAC-HGN-SCHW-DR-C-0029 for 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)

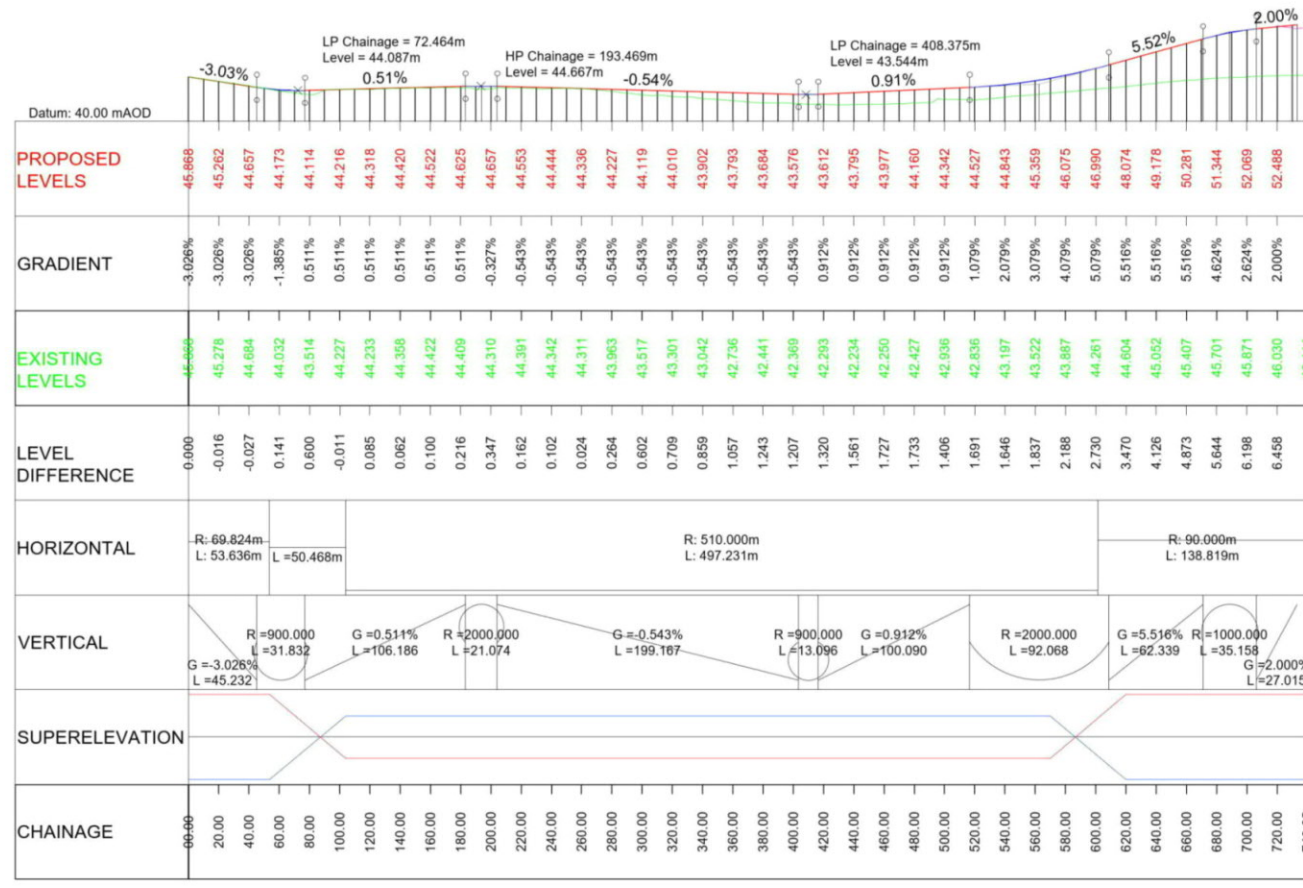


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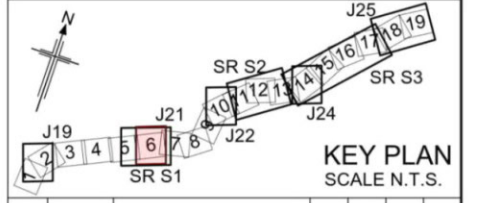
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LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - NORTH12E
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - NOTRTHLA
(SCALE H=1:2500, V=1:500)



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

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Colliers Centre, Colliers 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

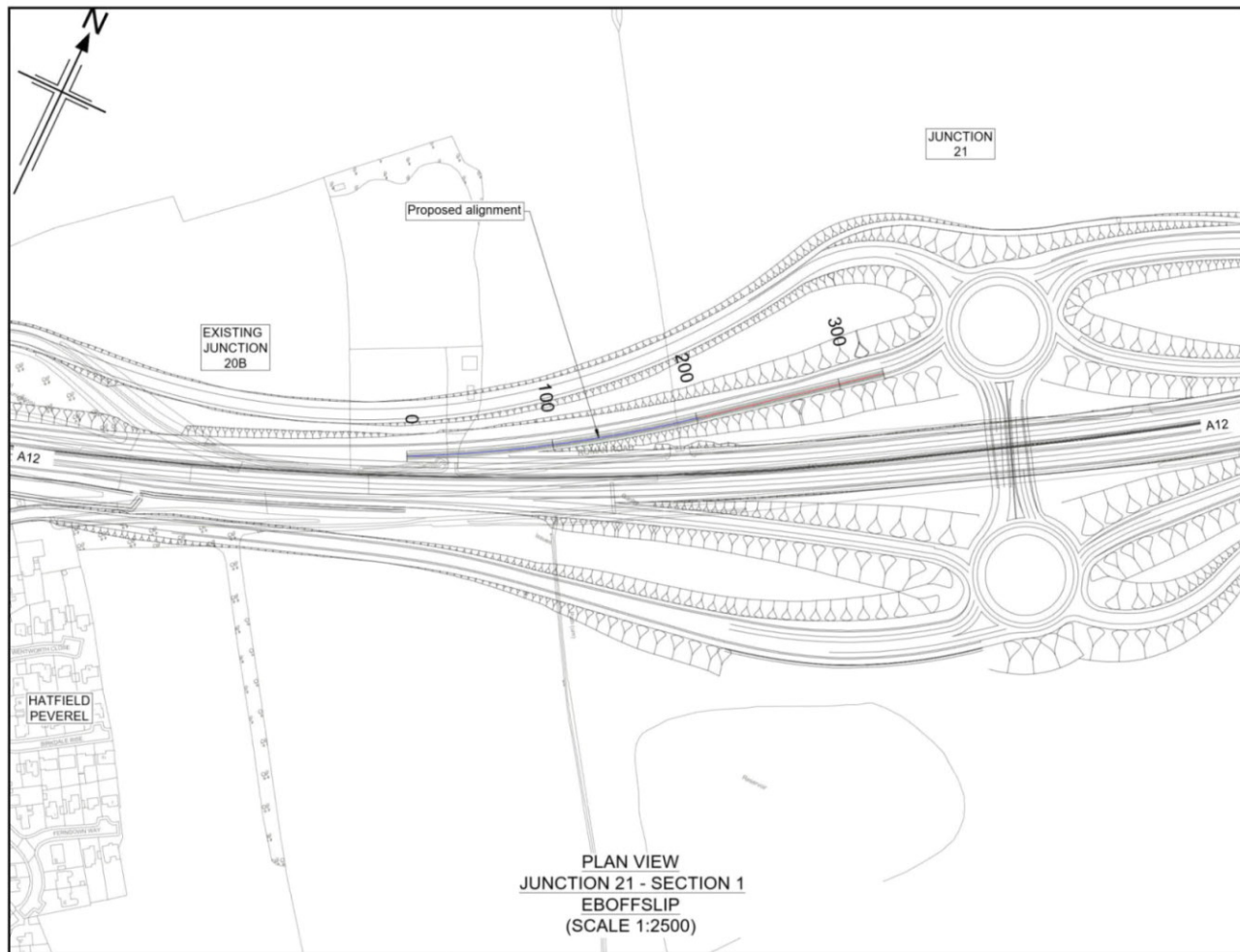
Drawing title: PLAN AND PROFILE
 JUNCTION 21 SECTION 1
 RBTLINK
 SHEET 4 OF 5

Drawing status: S2 - SUITABLE FOR INFORMATION

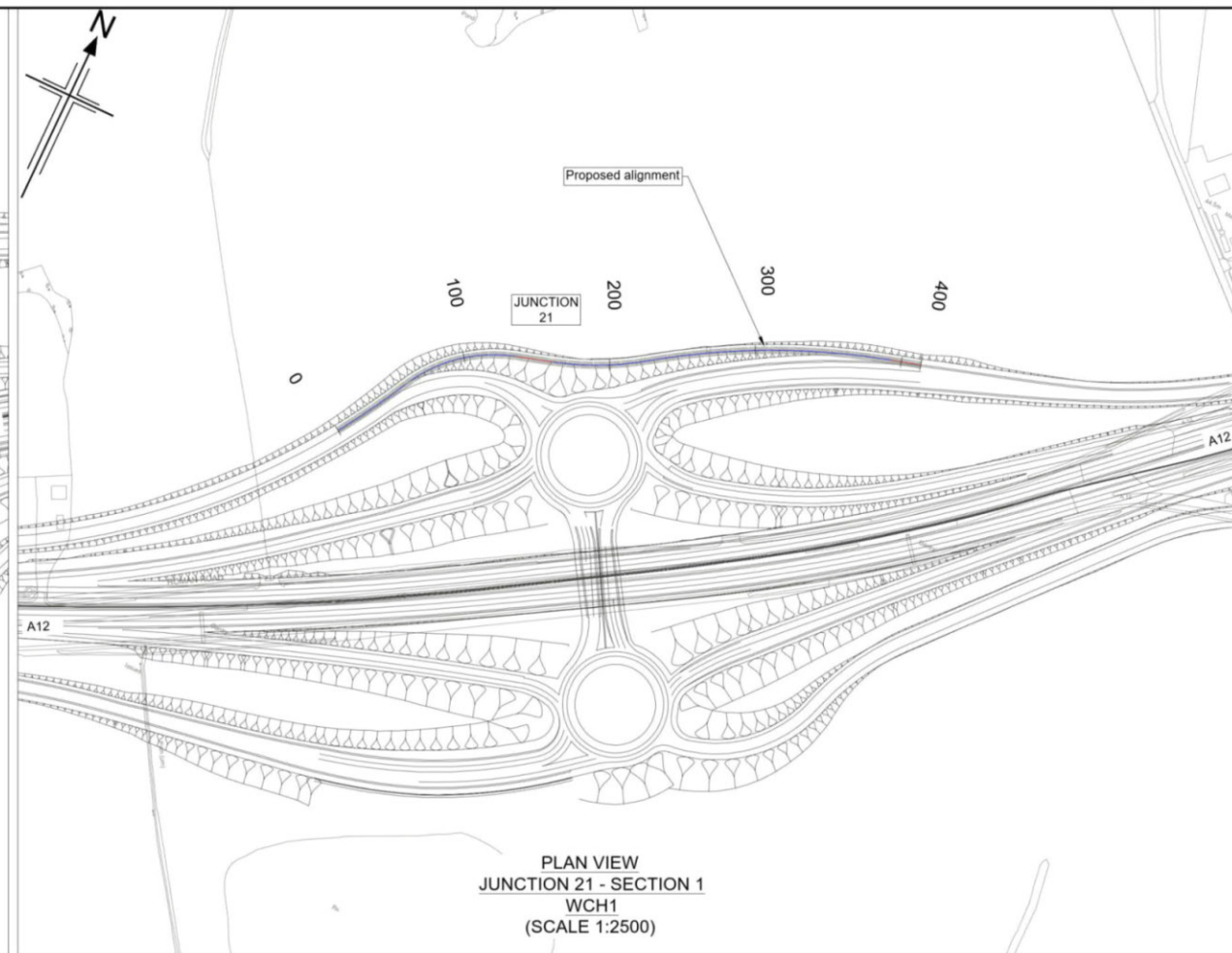
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: HE551497 - JAC - HSR - S1_J21
 Originator: JAC - HSR - S1_J21
 Volume: -DR- C -0004
 Location: JUNCTION 21 SECTION 1
 Type: PLAN AND PROFILE
 Role: SHEET 4 OF 5
 Number: P02

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PLAN VIEW
JUNCTION 21 - SECTION 1
EBOFFSLIP
(SCALE 1:2500)

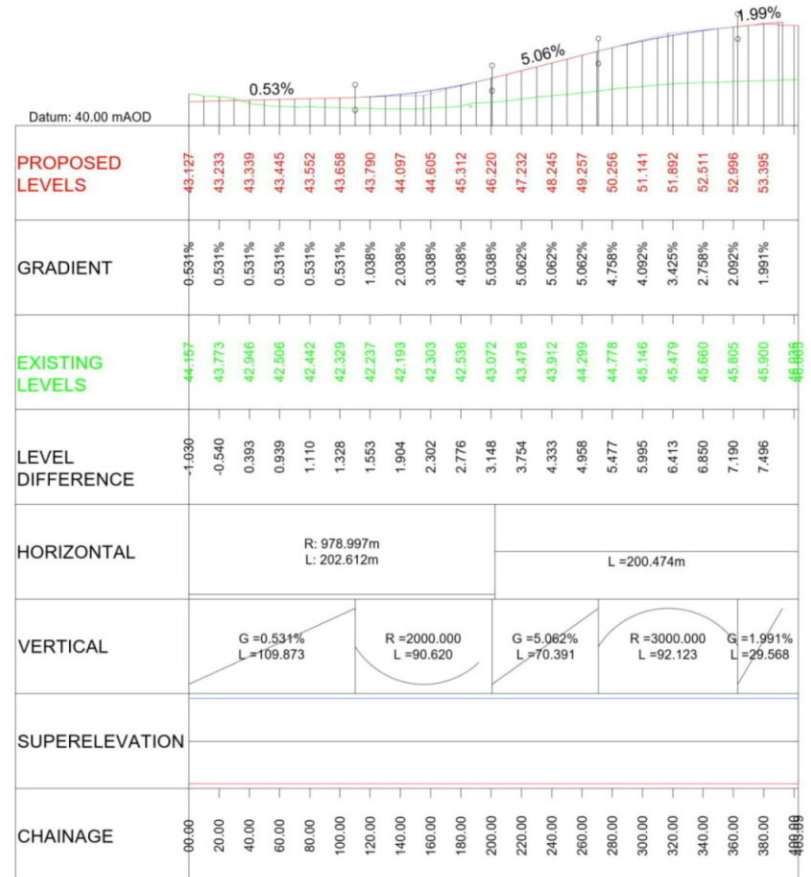
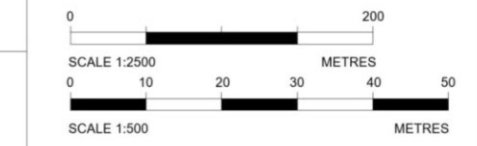


PLAN VIEW
JUNCTION 21 - SECTION 1
WCH1
(SCALE 1:2500)

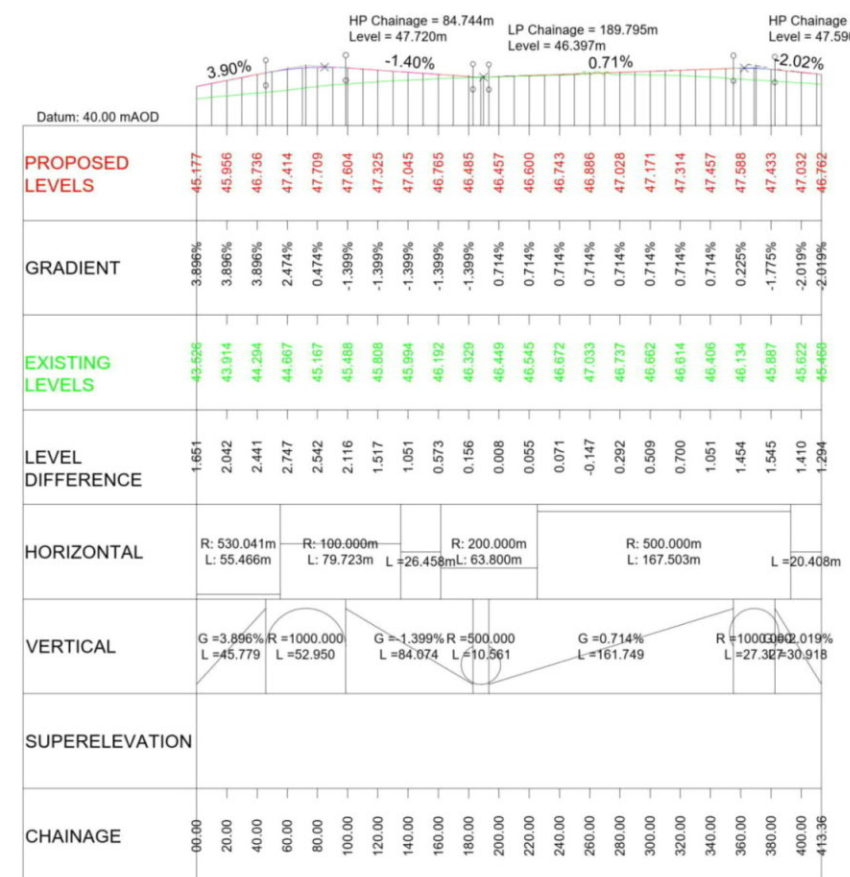
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 5. For Sheet Layout Plan refer to:
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HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

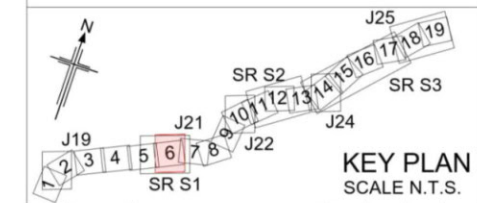
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - EBOFFSLIP
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 21 - SECTION 1 - WCH1
(SCALE H=1:2500, V=1:500)



P01	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
P03	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC
Rev	Rev Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

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
JUNCTION 21 SECTION 1
EB OFFSLIP
SHEET 5 OF 5**

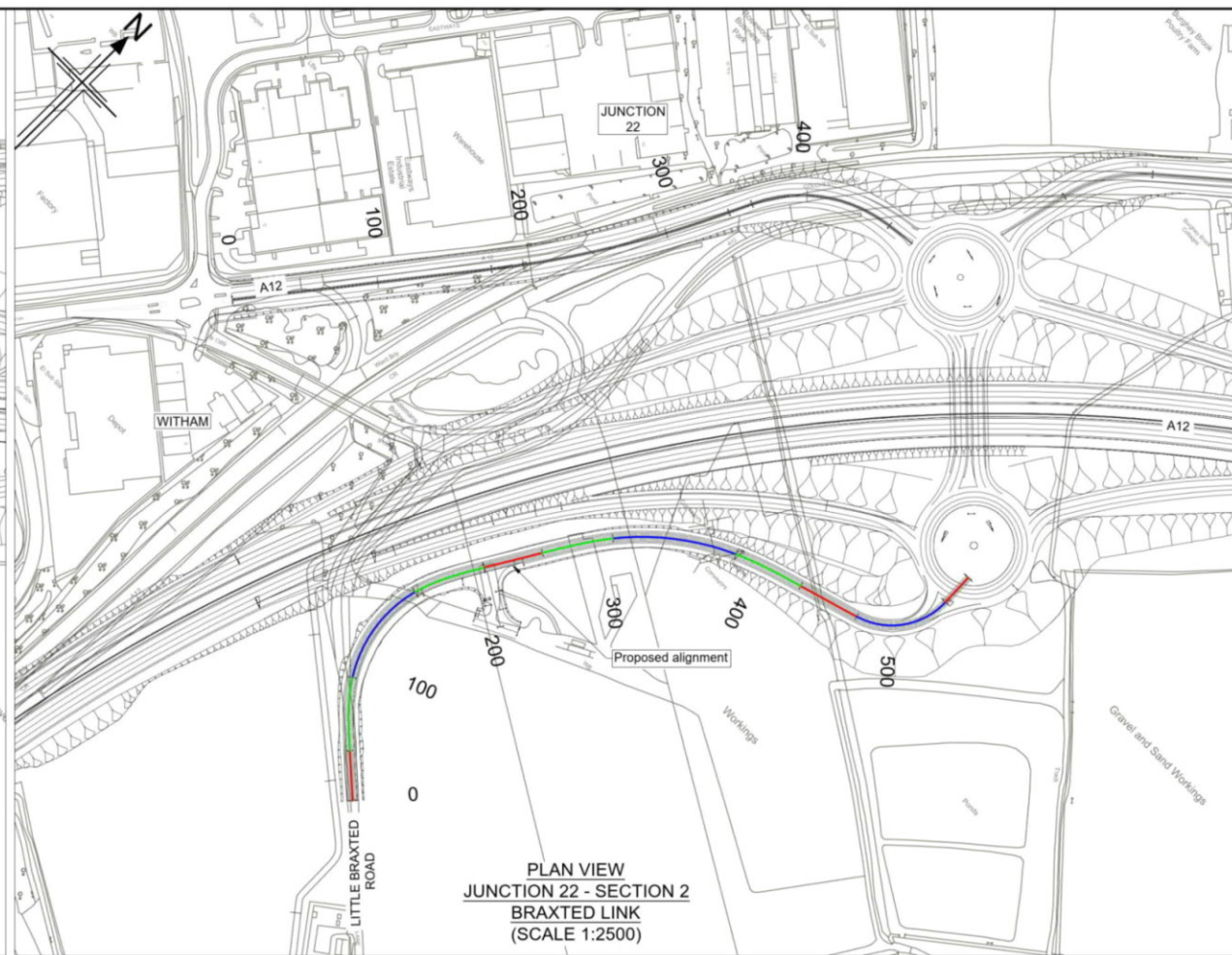
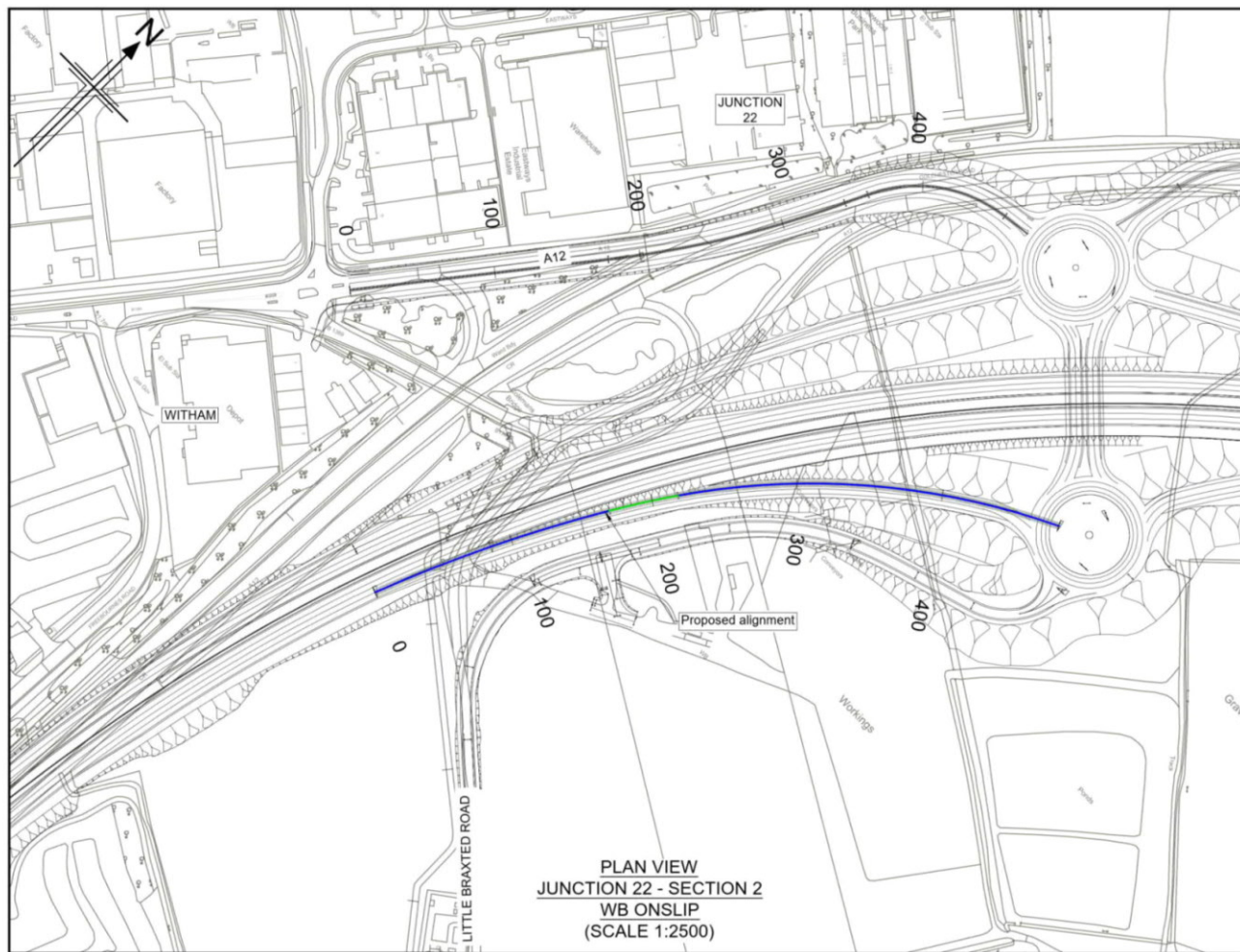
Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P03

Drawing number: **HE551497 - JAC - HSR - S1 J21**
Originator: **JAC**
Volume: **-DR- C -0005**

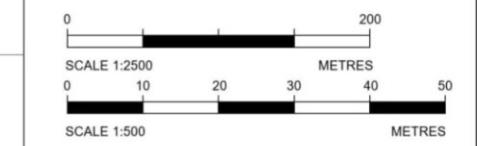
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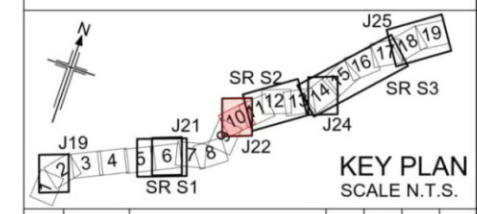


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HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

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



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PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	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**
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London SE1 2QS. Tel: +44 (0)203 9802000
www.jacobs.com

Client: **highways england**

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

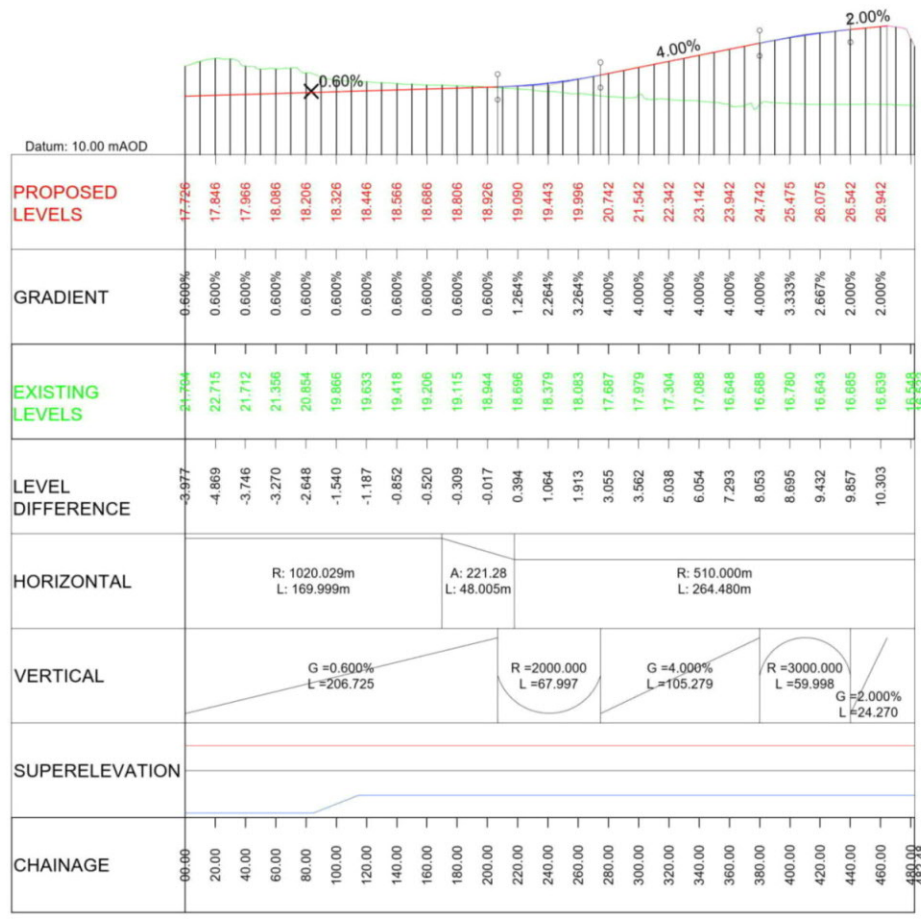
Drawing title: **PLAN AND PROFILE
JUNCTION 22 SECTION 2
WB ONSLIP AND BRAXTED LINK
SHEET 1 OF 4**

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

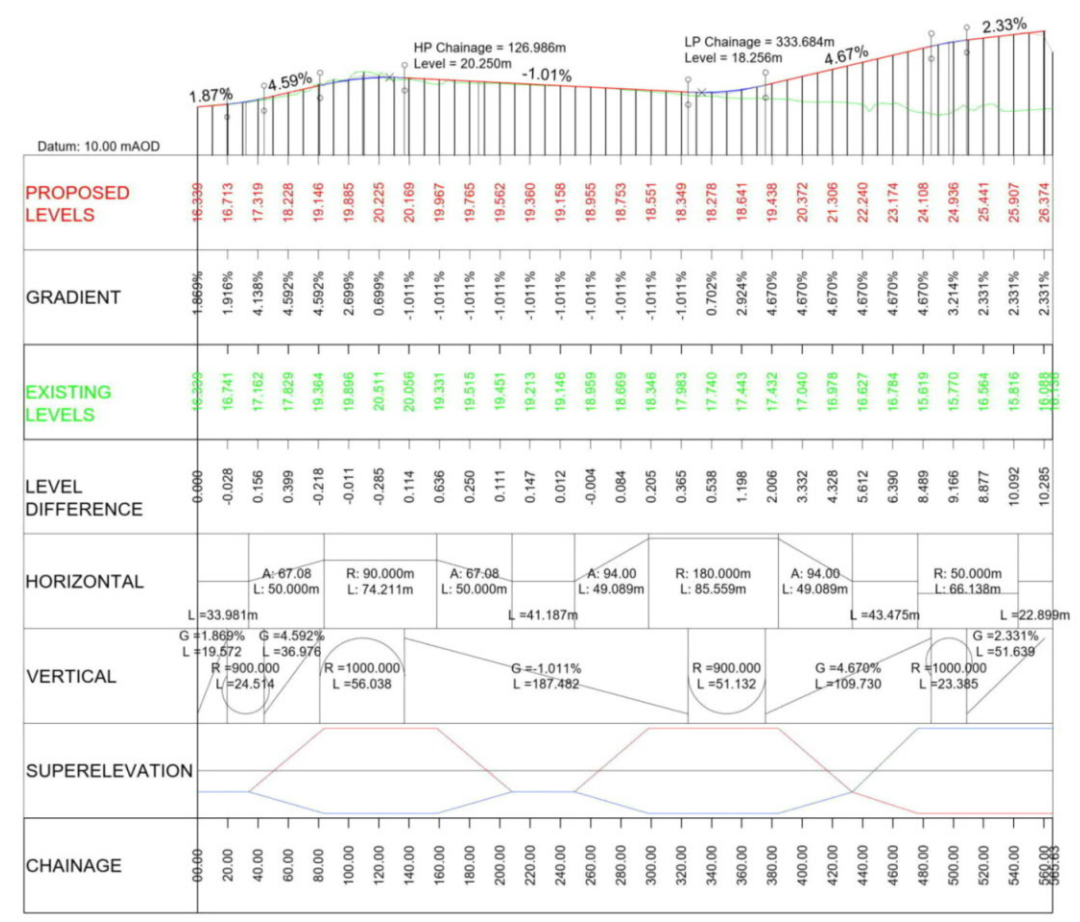
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P02

Drawing number: **HE551497 - JAC - HSR - S2 J22 - DR - C -0001**

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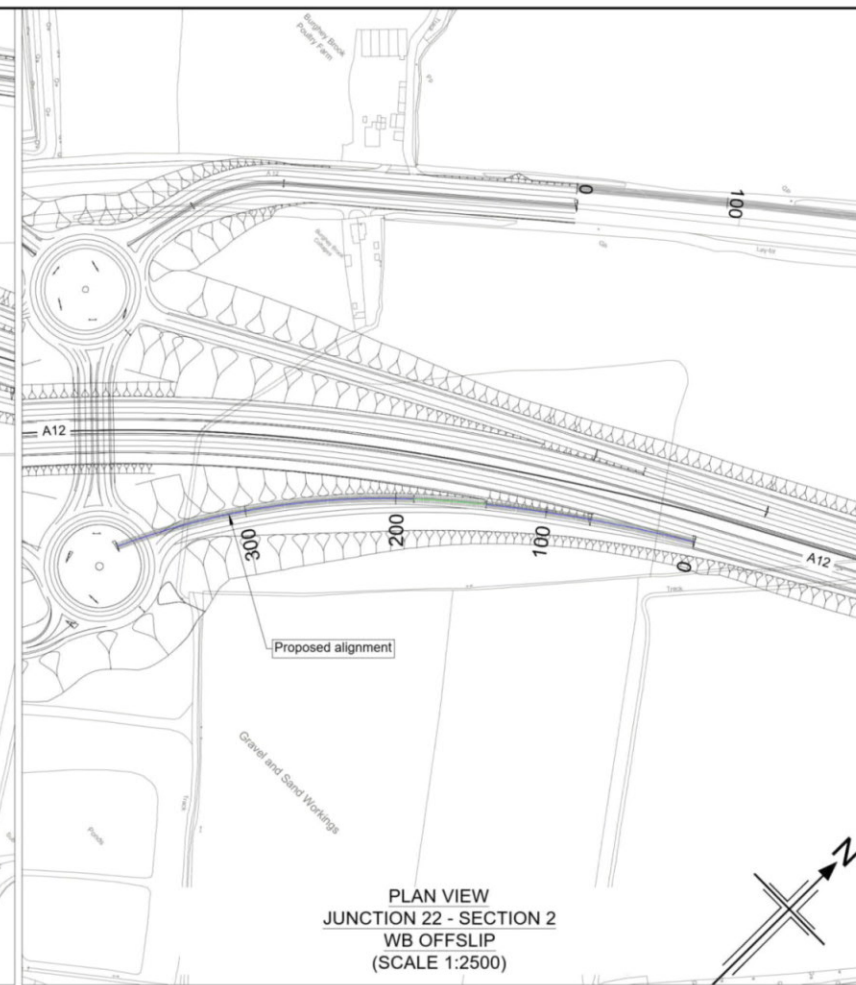
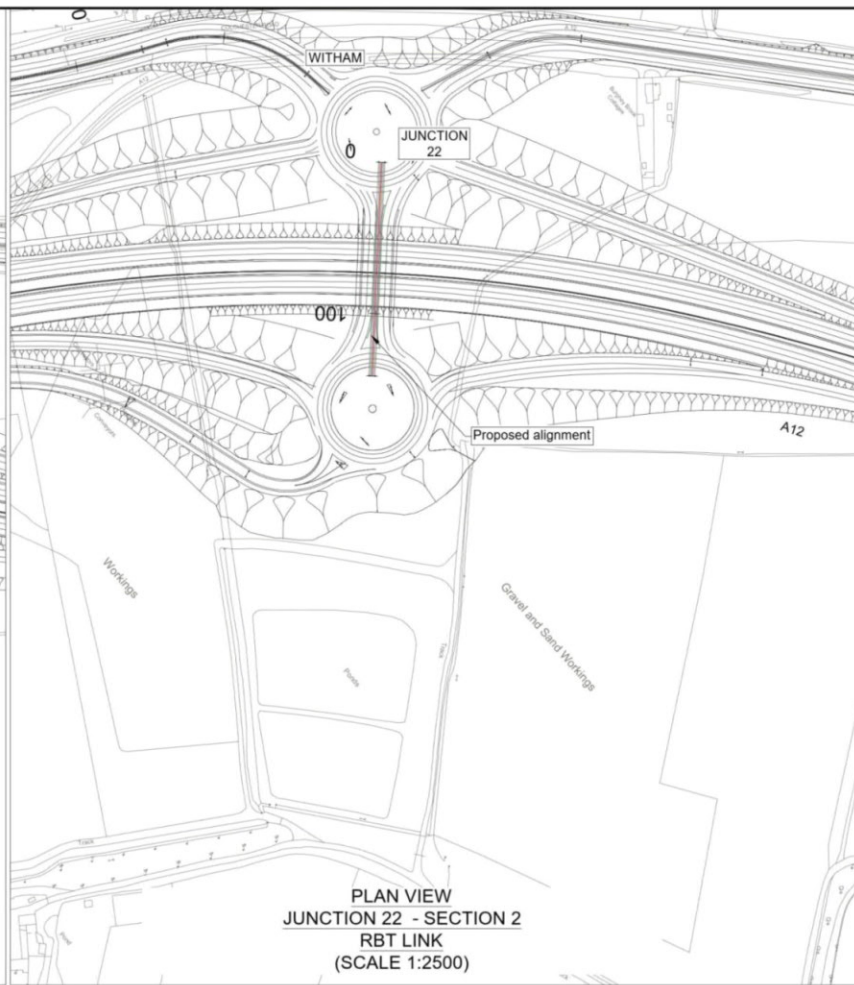
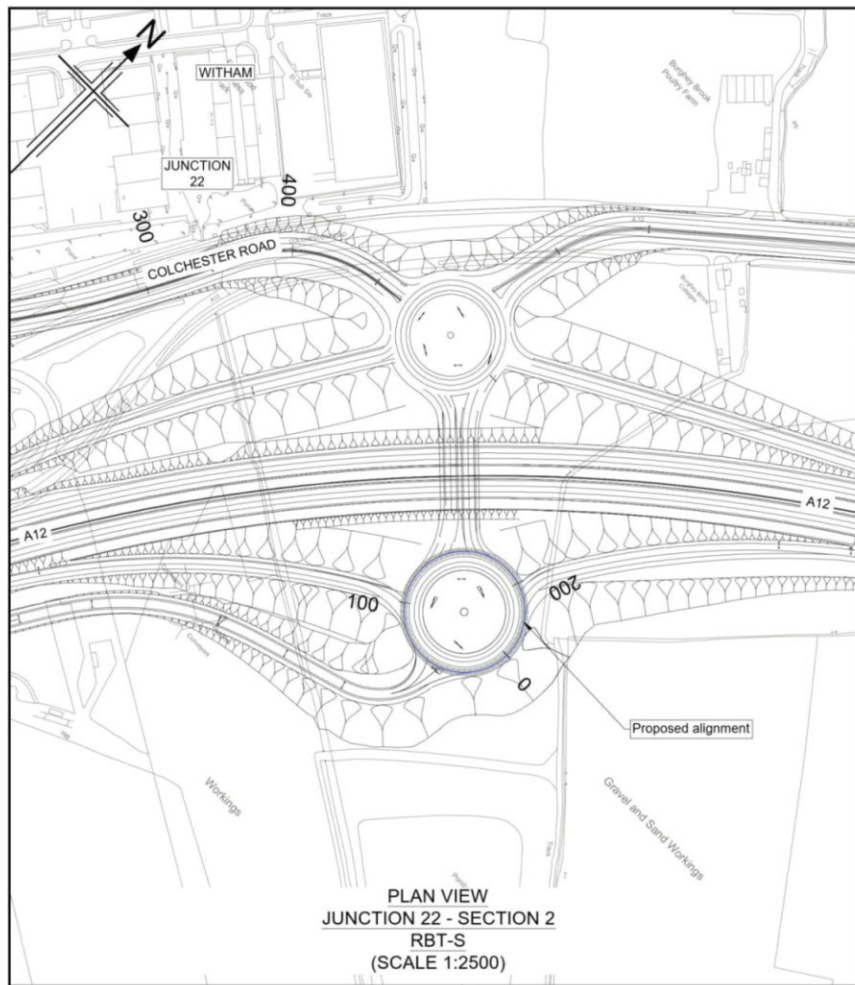


**LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - WB ONSLIP
(SCALE H=1:2500, V=1:500)**



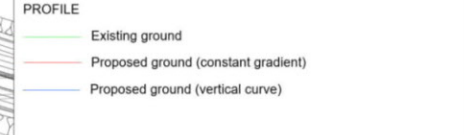
**LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - BRAXTED LINK
(SCALE H=1:2500, V=1:500)**

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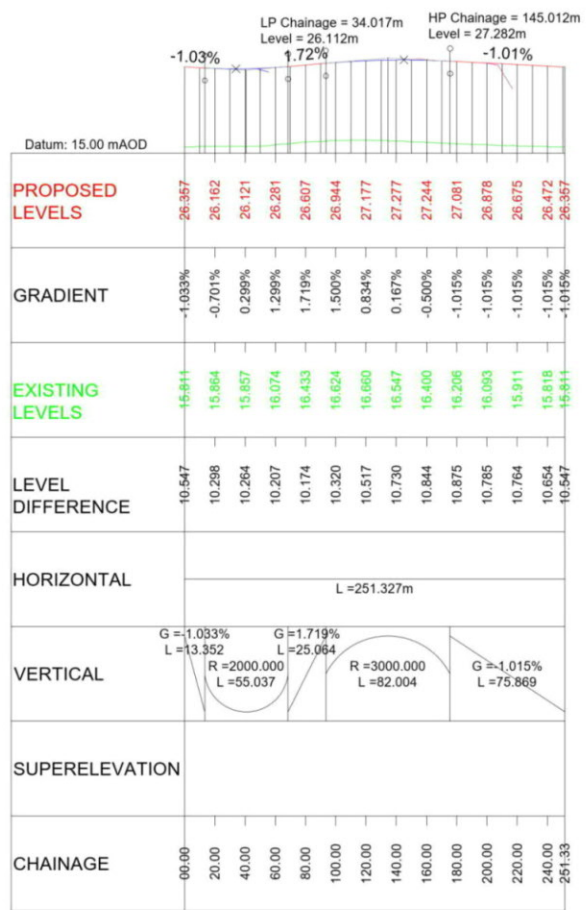


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HE551497-JAC-HGN-SCHW-DR- C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR- C-0030 for Sideroad profiles.

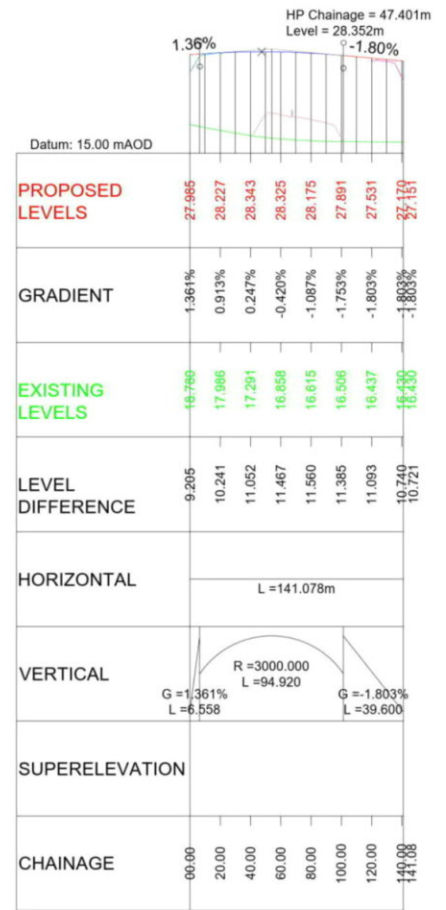
- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



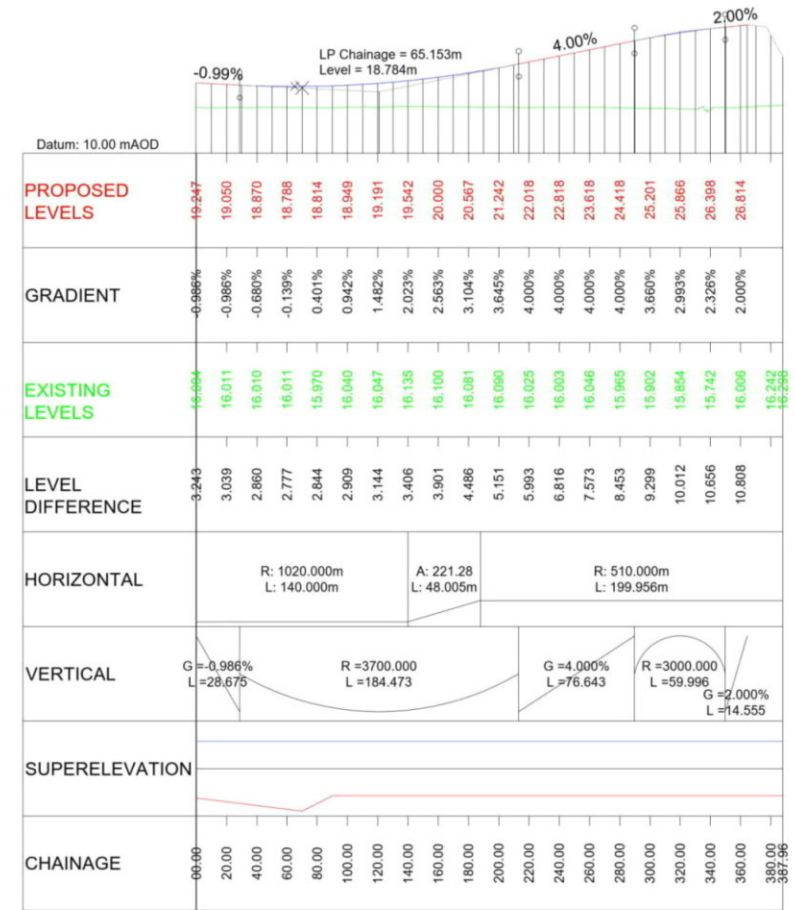
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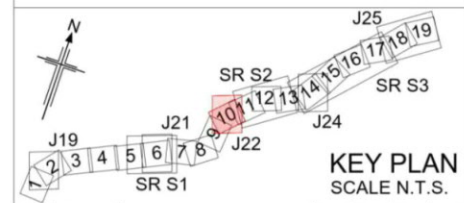
**LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - RBT-S
(SCALE H=1:2500, V=1:500)**



**LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - RBT LINK
(SCALE H=1:2500, V=1:500)**



**LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - WB OFFSLIP
(SCALE H=1:2500, V=1:500)**



Rev	Rev Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RM	CA	ST	RM
P03	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **Jacobs**
 2nd Floor Coltons Centre, Coltons Lane
 London SE1 2QS, 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
JUNCTION 22 SECTION 2
RBT-S, RBT LINK AND WB OFFSLIP
SHEET 2 OF 4**

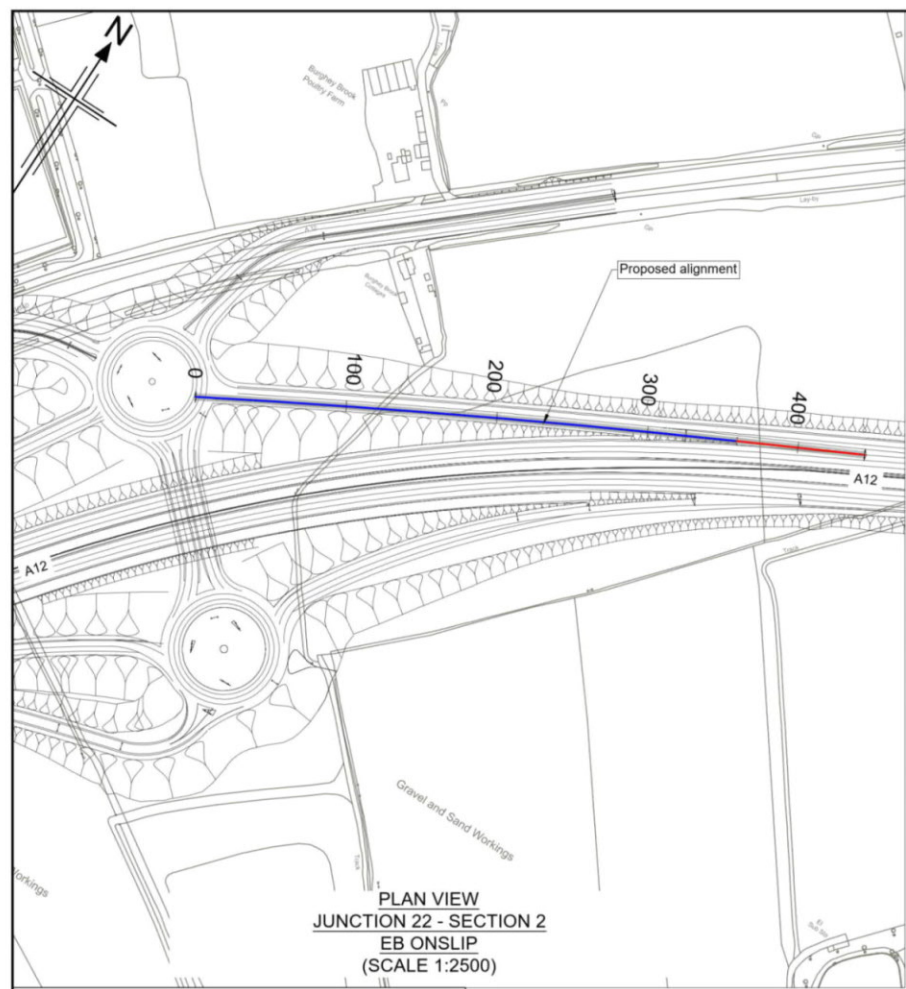
Drawing status: **S2 - SUITABLE FOR INFORMATION**

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

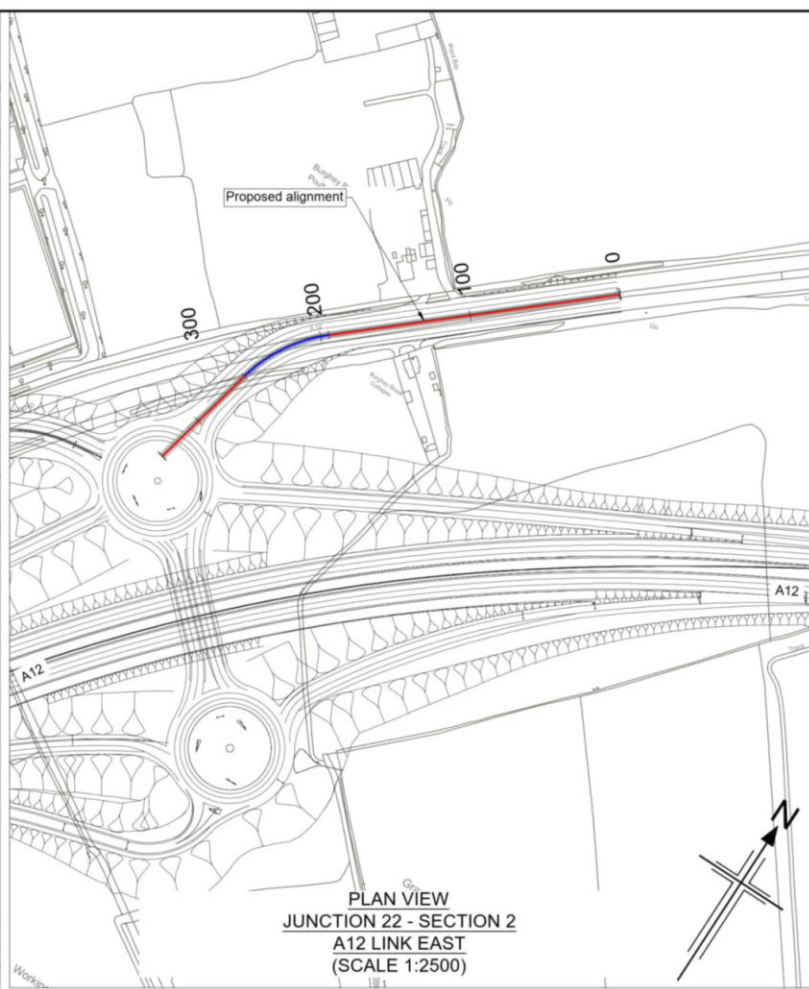
Drawing number: **HE551497 - JAC - HSR - S2 - J22 - DR - C - 0002**

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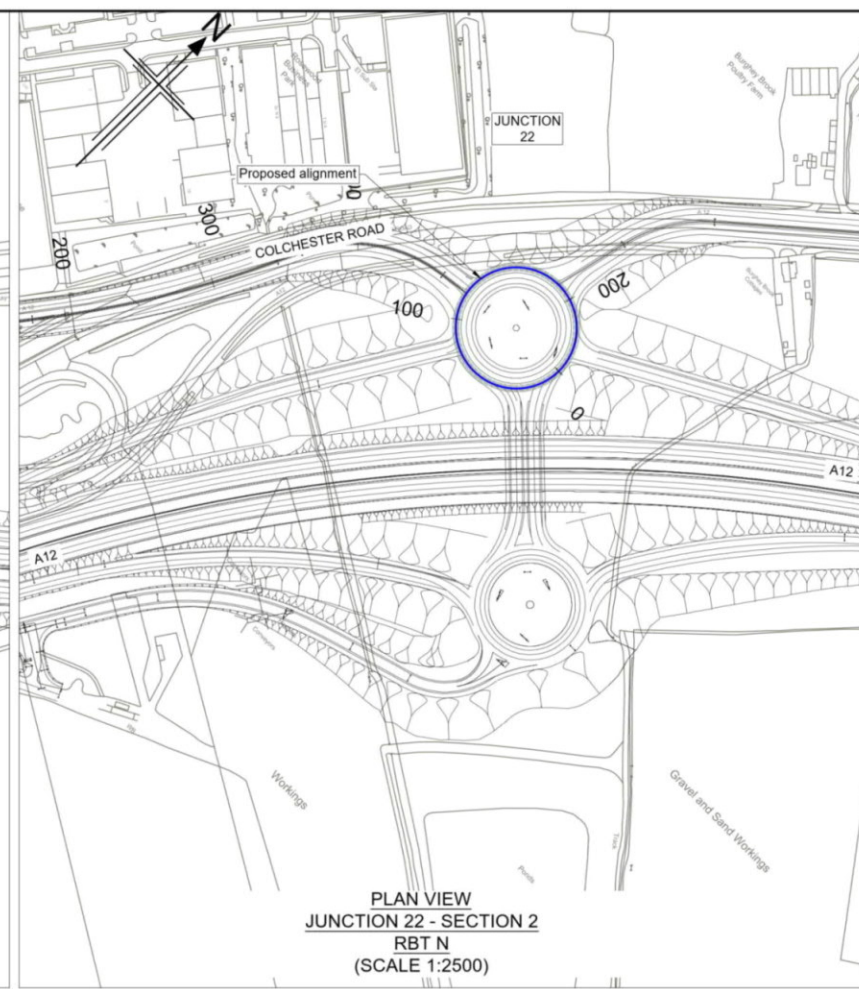
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PLAN VIEW
JUNCTION 22 - SECTION 2
EB ONSLIP
(SCALE 1:2500)



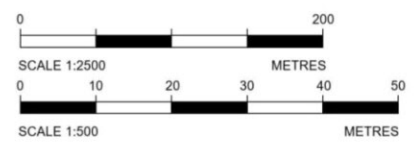
PLAN VIEW
JUNCTION 22 - SECTION 2
A12 LINK EAST
(SCALE 1:2500)



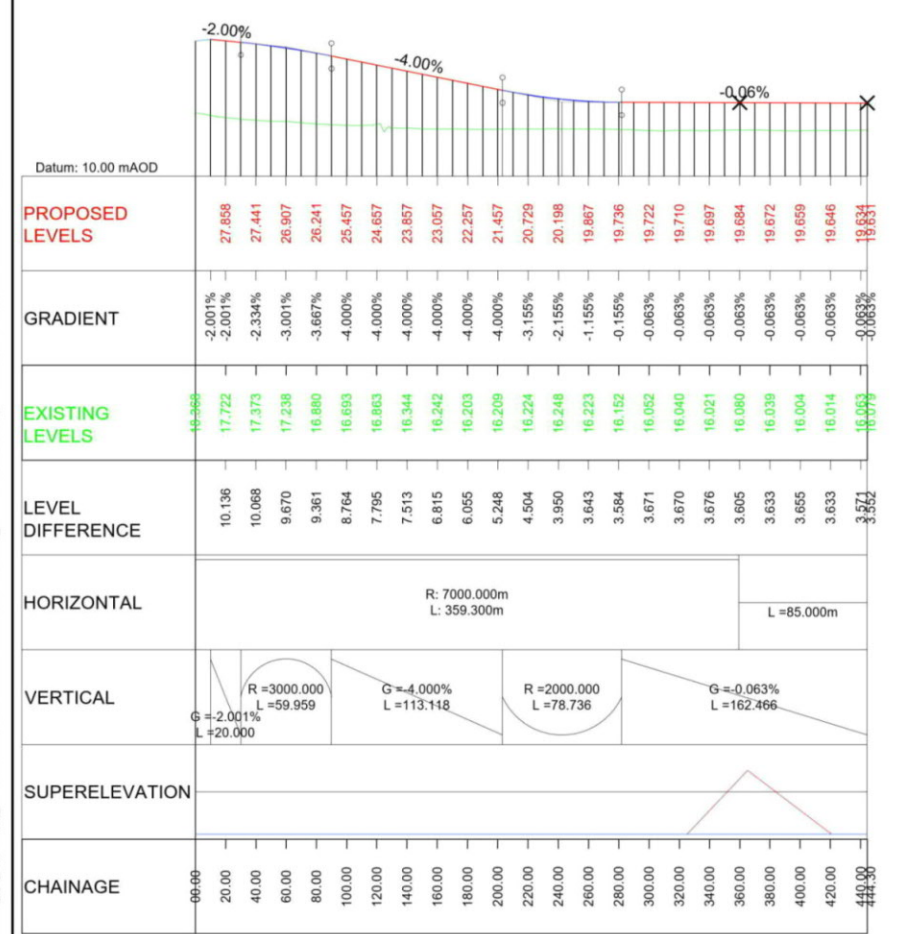
PLAN VIEW
JUNCTION 22 - SECTION 2
RBT N
(SCALE 1:2500)

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

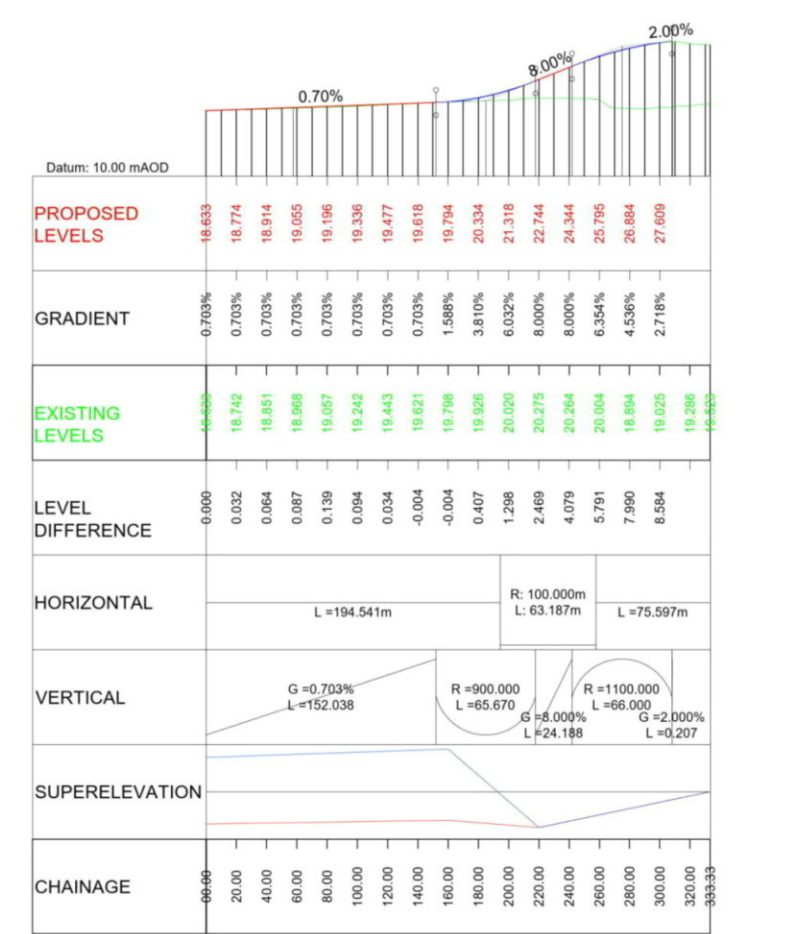
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



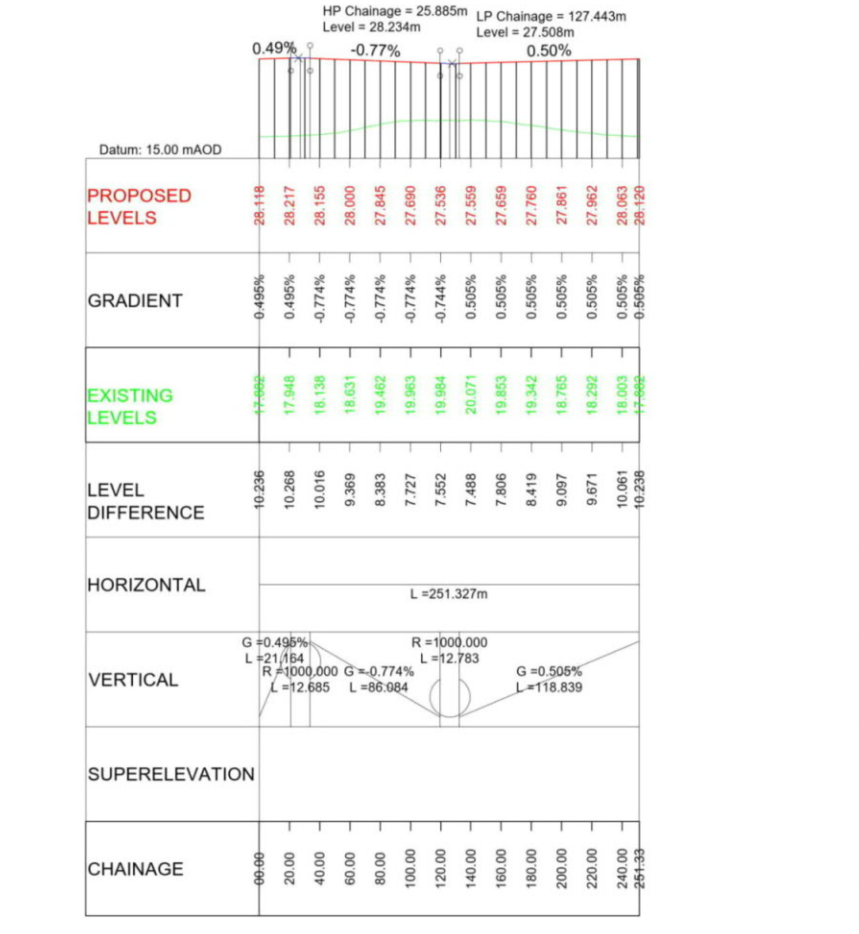
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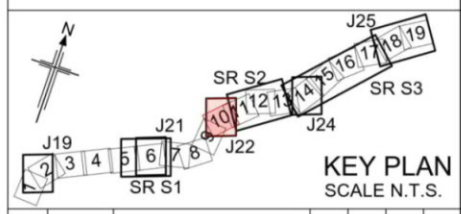
LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - EB ONSLIP
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - A12 LINK EAST
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - RBT N
(SCALE H=1:2500, V=1:500)



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

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
JUNCTION 22 SECTION 2
EB ONSLIP, A12 LINK EAST & RBT N
SHEET 3 OF 4

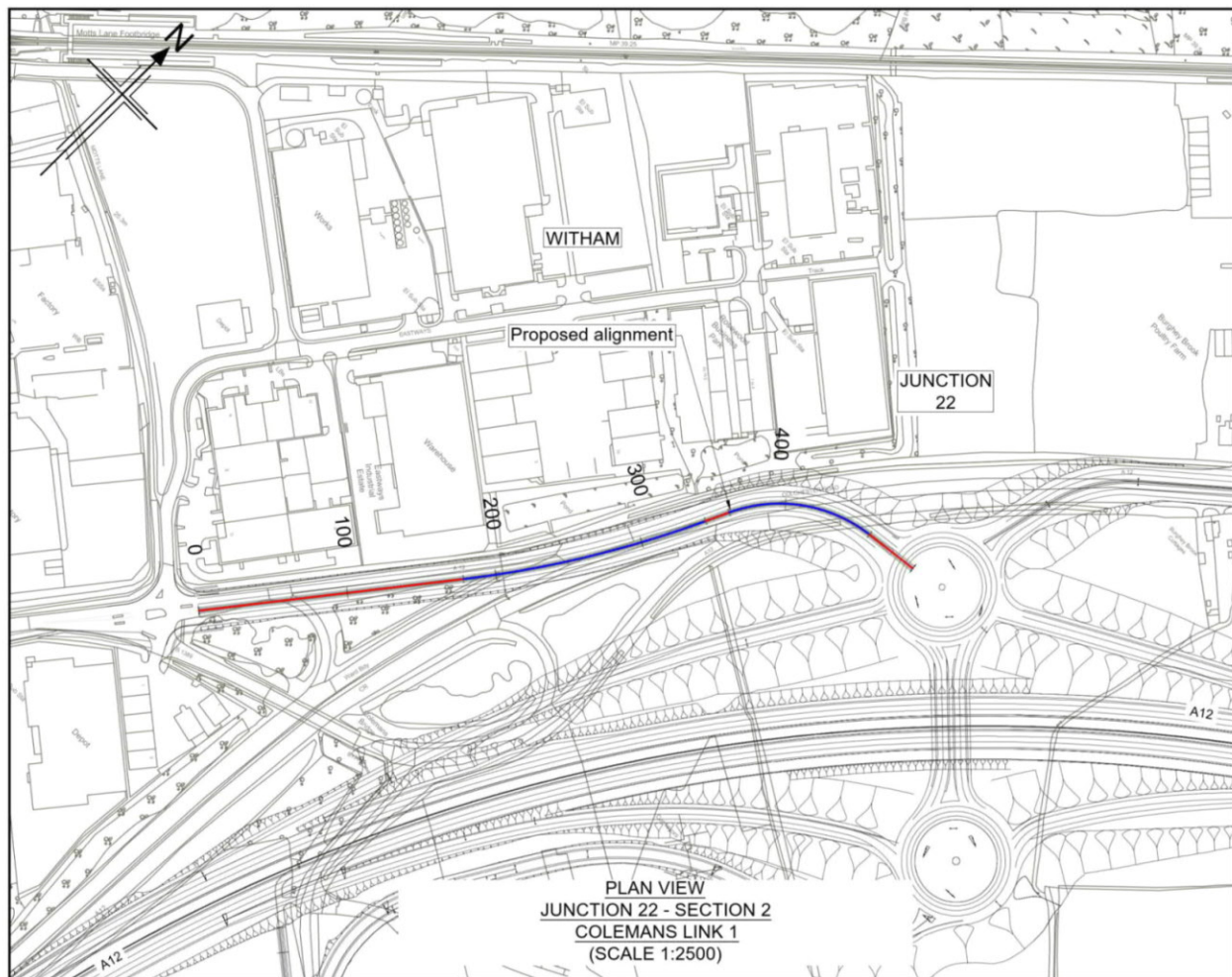
Drawing status: S2 - SUITABLE FOR INFORMATION

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

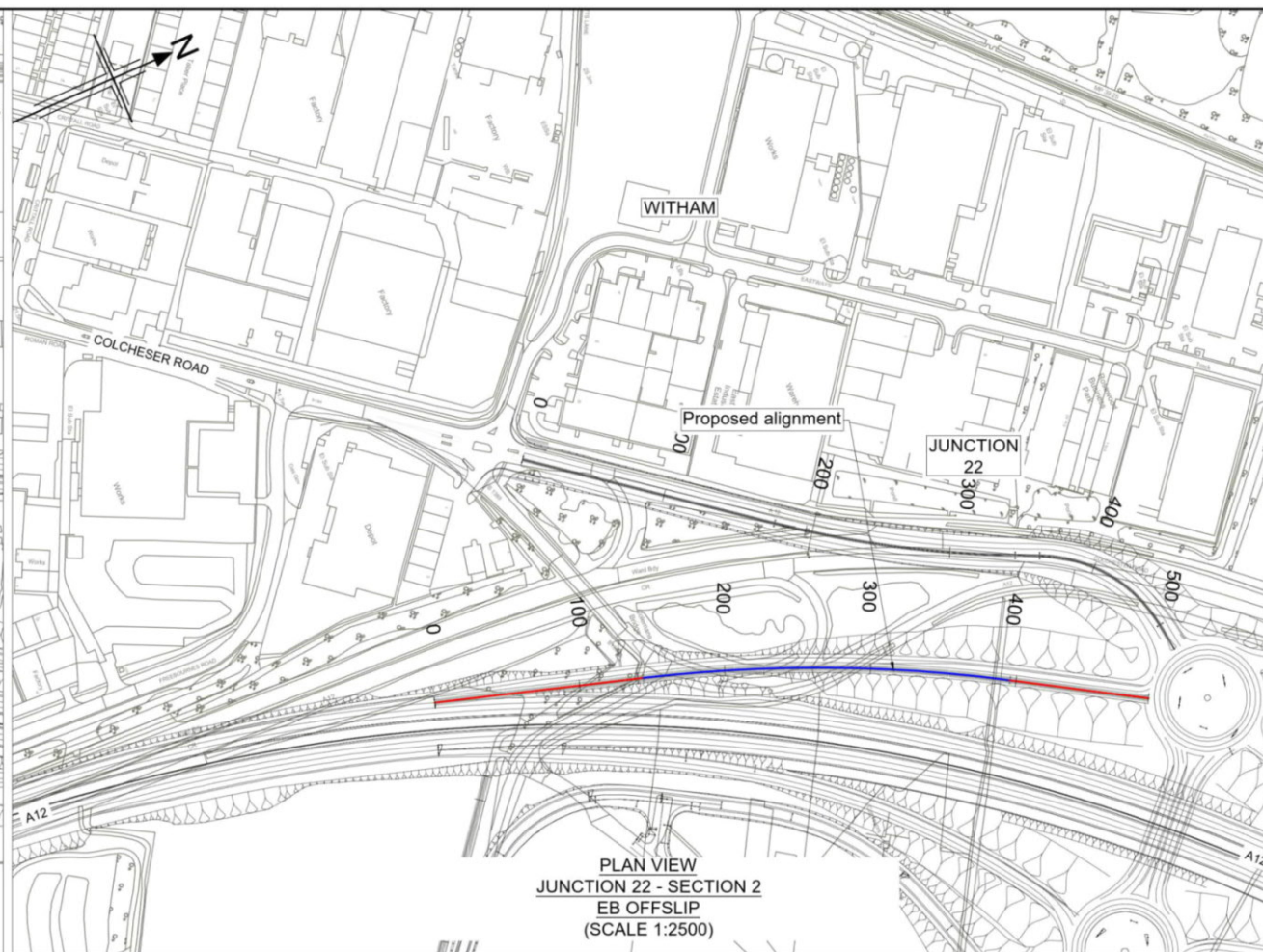
Drawing number: HE551497 - JAC - HSR - S2 J22 - DR - C - 0003

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PLAN VIEW
JUNCTION 22 - SECTION 2
COLEMANS LINK 1
(SCALE 1:2500)

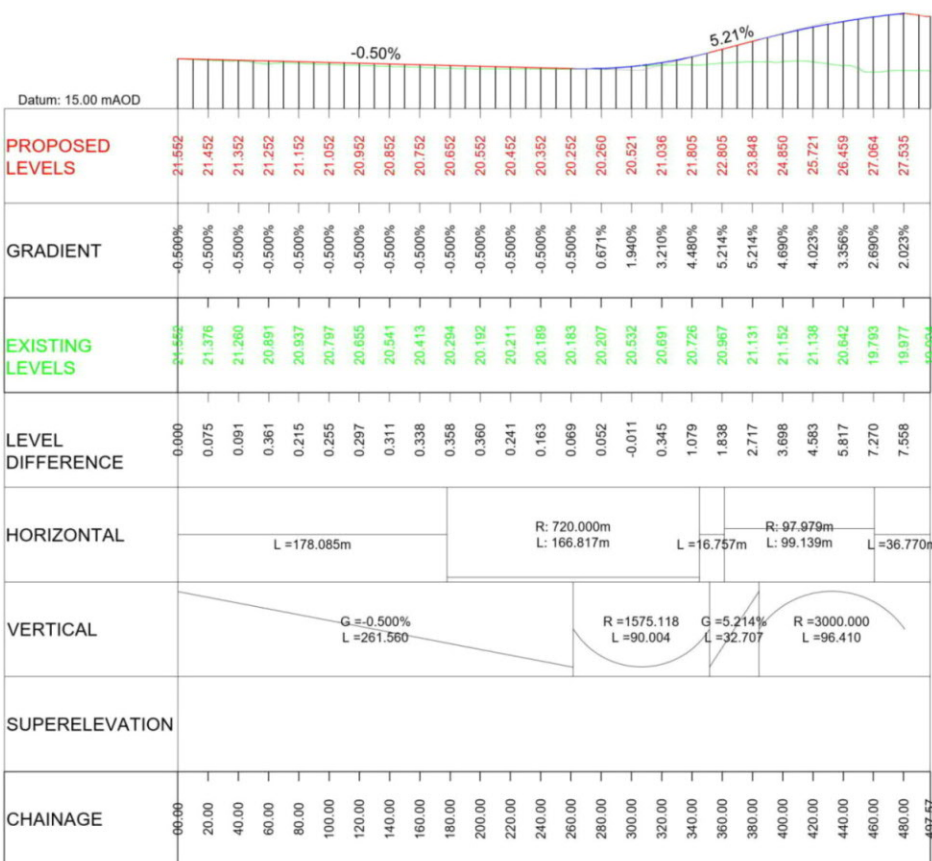
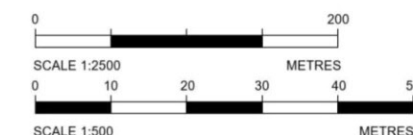


PLAN VIEW
JUNCTION 22 - SECTION 2
EB OFFSLIP
(SCALE 1:2500)

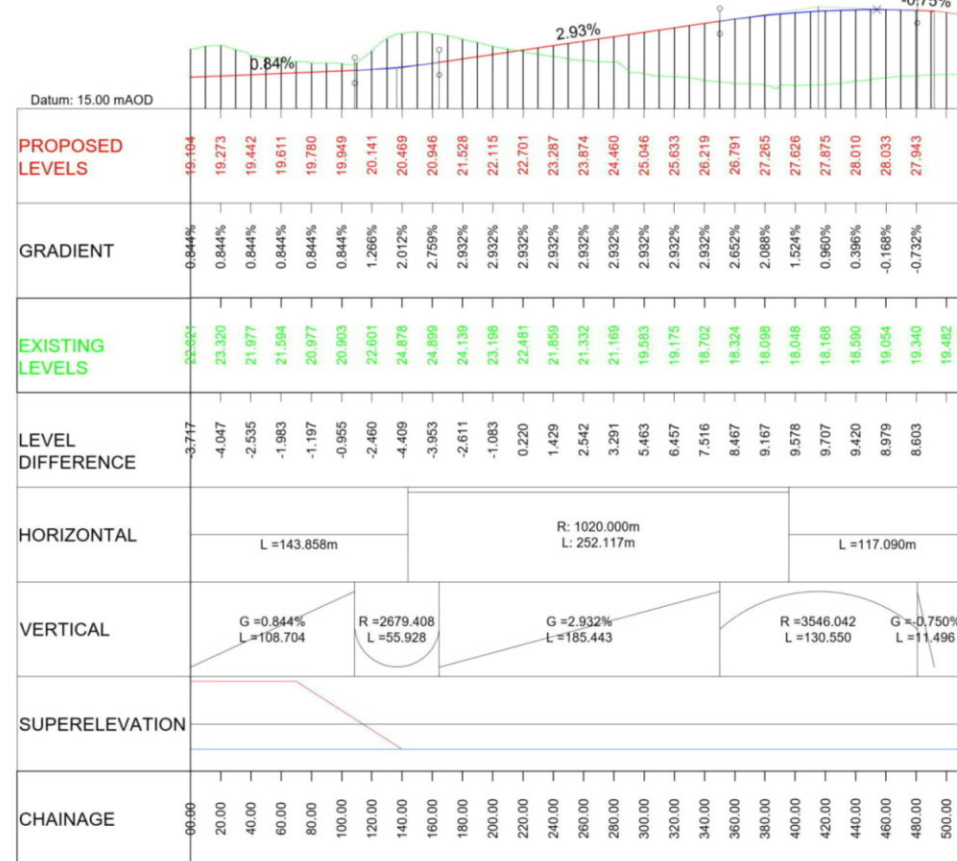
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 4. Only written dimension shall be used.
 5. For Sheet Layout Plan refer to:
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HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

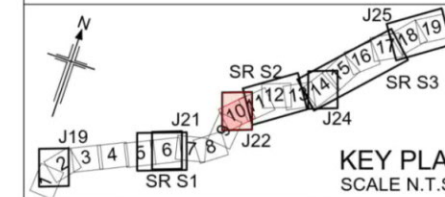
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - COLEMANS LINK 1
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 22 - SECTION 2 - EB OFFSLIP
(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	CA	RM	RC
P02	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Coltons Centre, Coltons Lane
London SE1 2QS. 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
JUNCTION 22 SECTION 2
COLEMANS LINK AND EB OFFSLIP
SHEET 4 OF 4**

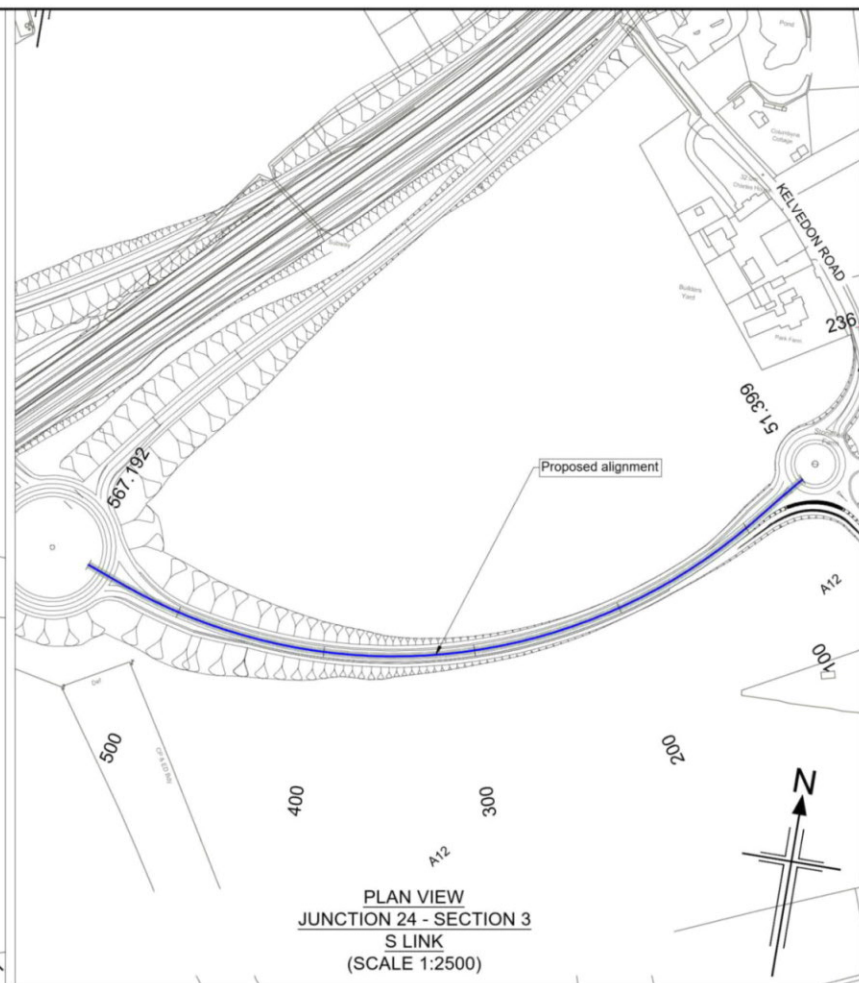
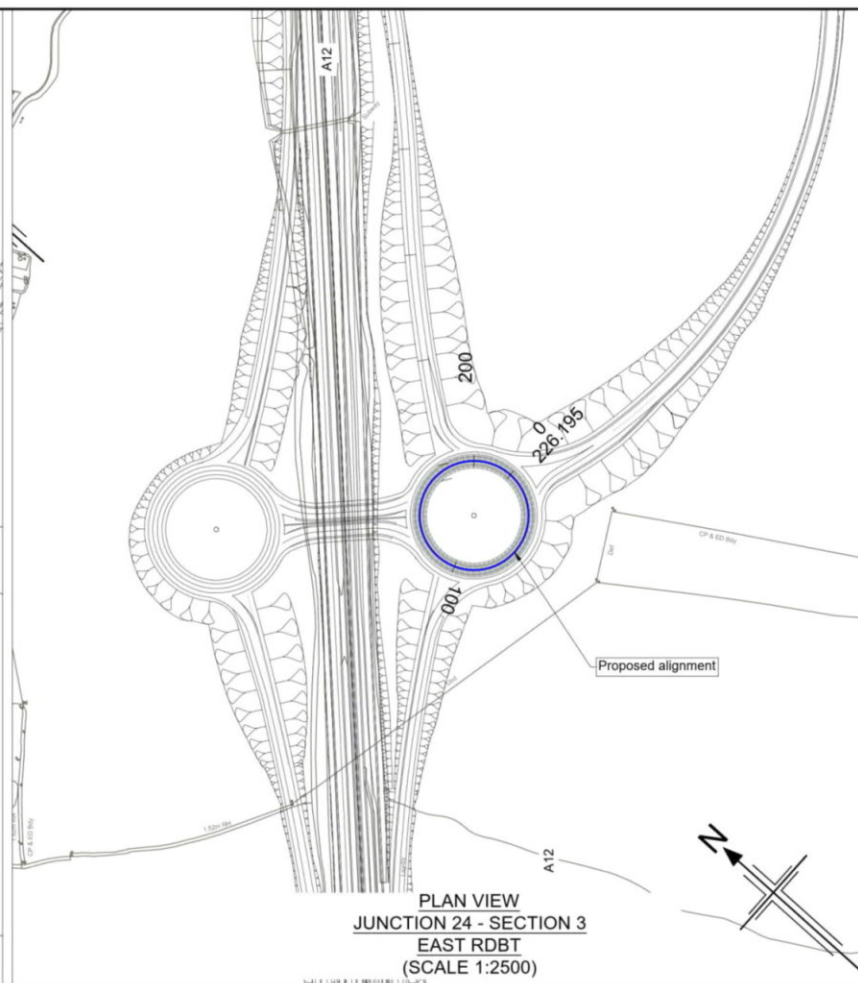
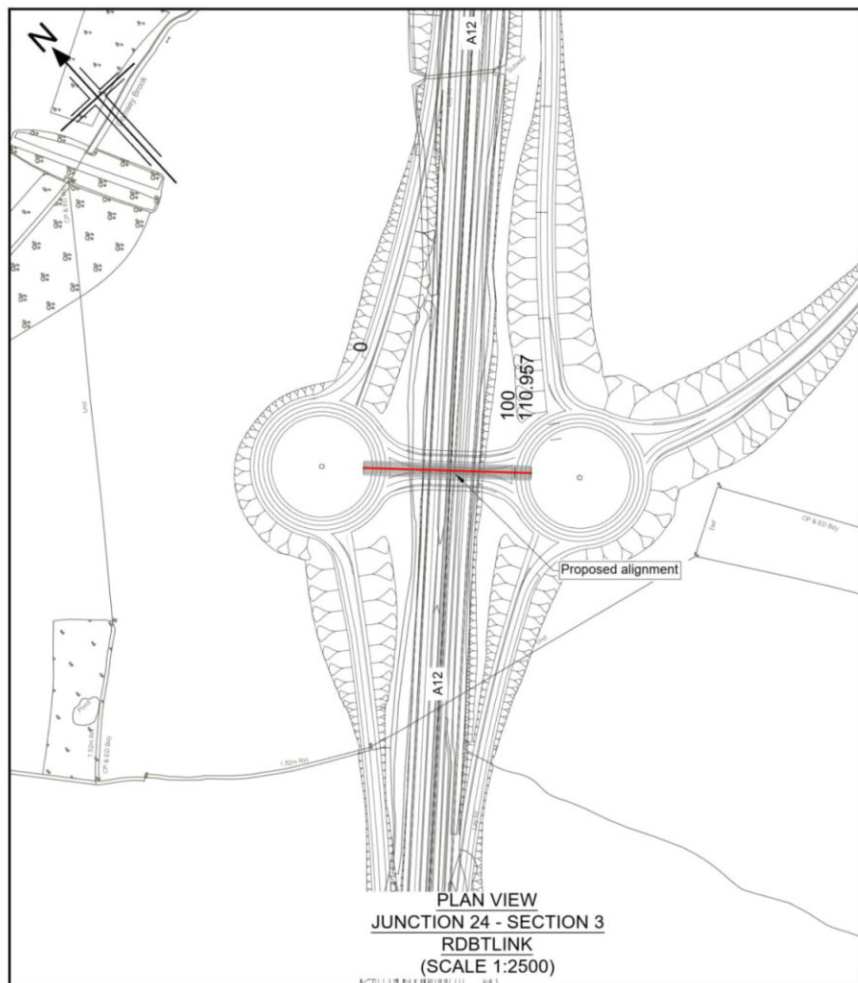
Drawing status: **S2 - SUITABLE FOR INFORMATION**

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

Drawing number: **HE551497 - JAC - HSR - S2 J22 -DR- C -0004**

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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.

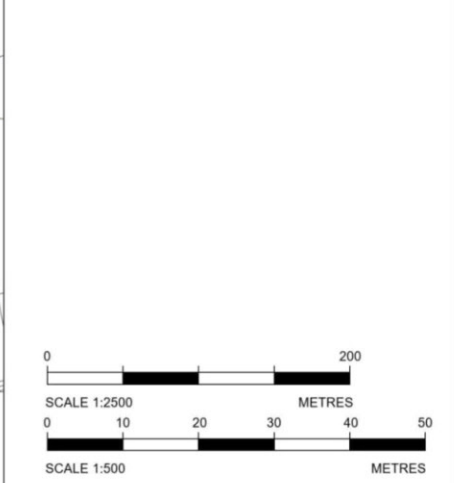
Key

PLAN

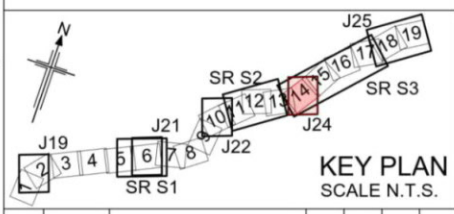
- Chainage
- Curve alignment
- Straight alignment
- Transition alignment

PROFILE

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



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PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	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 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
JUNCTION 24 SECTION 3
RDBT LINK EAST RDBT S LINK
SHEET 1 OF 5**

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 - S3 J24 - DR - C -0001**

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Datum: 25.00 mAOD

LP Chainage = 29.949m
Level = 27.181m
G = 2.494%
L = 110.957m
R = 900.000
L = 18.107
G = 2.500%
L = 8.632

PROPOSED LEVELS	27.280	27.224	27.321	27.419	27.730
GRADIENT	-2.494%	-1.990%	0.488%	0.488%	2.500%
EXISTING LEVELS	27.280	27.224	27.321	27.419	27.730
LEVEL DIFFERENCE	0.000	0.000	0.000	0.000	0.000
HORIZONTAL	L = 110.957m				
VERTICAL	G = -2.494% R = 900.000 L = 9.054 L = 18.107 R = 500.000 L = 14.911 G = 0.488% L = 8.632 L = 47.952				
SUPERELEVATION					
CHAINAGE	00+00	20+00	40+00	60+00	80+00

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - RDBT LINK
(SCALE H=1:2500, V=1:500)

Datum: 25.00 mAOD

HP Chainage = 32.775m
Level = 29.237m
LP Chainage = 145.325m
Level = 27.904m
G = 1.450%
L = 226.195m
R = 1000.000
L = 29.233
G = -1.473%
L = 68.355
G = 1.450%
L = 66.368

PROPOSED LEVELS	28.972	29.196	29.224	29.052	28.756	28.464	28.169	27.919	28.012	28.302	28.592	28.892
GRADIENT	1.450%	0.639%	-0.361%	-1.361%	-1.473%	-1.473%	-1.473%	-0.533%	1.450%	1.450%	1.450%	1.450%
EXISTING LEVELS	28.972	35.398	34.861	34.174	33.799	33.632	34.070	34.196	34.266	34.603	35.082	35.333
LEVEL DIFFERENCE	-6.449	-6.202	-5.638	-5.123	-5.041	-5.369	-5.901	-6.277	-6.254	-6.301	-6.470	-6.471
HORIZONTAL	L = 226.195m											
VERTICAL	G = 1.450% R = 2000.000 L = 3.775 L = 58.464 G = -1.473% R = 1000.000 L = 29.233 L = 68.355 G = 1.450% L = 66.368											
SUPERELEVATION												
CHAINAGE	00+00	20+00	40+00	60+00	80+00	100+00	120+00	140+00	160+00	180+00	200+00	220+00

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - EAST RDBT
(SCALE H=1:2500, V=1:500)

Datum: 25.00 mAOD

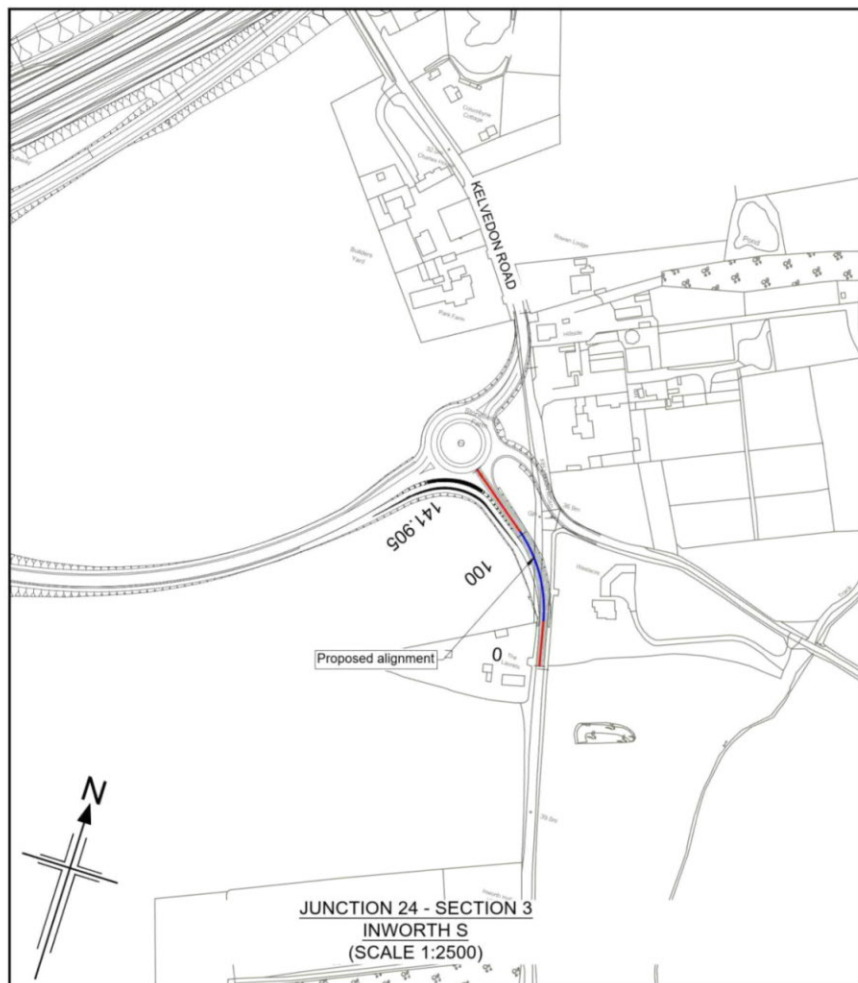
HP Chainage = 212.187m
Level = 40.032m

LP Chainage = 544.134m
Level = 28.843m

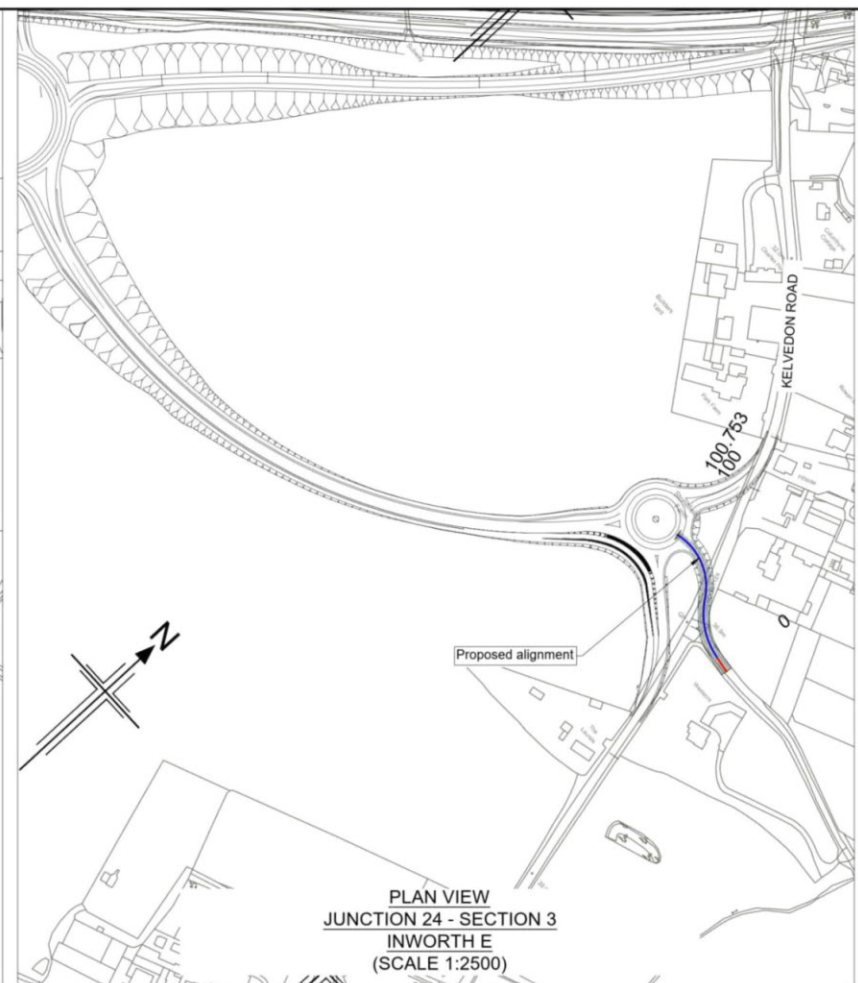
PROPOSED LEVELS	37.745	38.047	38.448	38.848	39.248	39.619	39.875	40.009	40.022	39.914	39.685	39.335	38.863	38.270	37.556	36.721	35.766	34.765	33.763	32.762	31.761	30.798	30.022	29.431	28.885					
GRADIENT	-2.486%	2.001%	2.001%	2.001%	1.581%	0.975%	0.369%	-0.237%	-0.843%	-1.449%	-2.055%	-2.661%	-3.267%	-3.873%	-4.479%	-5.086%	-5.006%	-5.006%	-5.006%	-5.006%	-4.384%	-3.384%	-2.752%	-2.067%						
EXISTING LEVELS	37.645	38.255	38.599	38.851	39.112	39.440	39.708	39.930	40.142	40.248	40.170	39.977	39.696	39.465	39.229	38.975	38.483	38.302	38.206	38.017	37.805	37.556	37.073	36.374	35.942	35.656				
LEVEL DIFFERENCE	-0.103	-0.208	-0.142	-0.004	0.136	0.179	0.167	0.080	-0.120	-0.333	-0.484	-0.642	-0.833	-1.195	-1.672	-2.254	-2.718	-3.598	-4.445	-5.255	-6.044	-6.758	-7.052	-6.942	-7.056					
HORIZONTAL	R = 362.818m L = 455.907m												R = 362.818m L = 455.907m												L = 24.620m					
VERTICAL	G = -2.486% L = 8.044 G = 2.001% L = 83.965												R = 3300.000 L = 231.231												G = -5.006% L = 90.172		R = 2000.000 L = 45.077		G = -2.752% L = 25.992 R = 200.000 L = 10.410 G = -2.453% L = 8.728	
SUPERELEVATION																														
CHAINAGE	51+40	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	460+00	480+00	500+00	520+00	540+00	560+00			

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - S LINK
(SCALE H=1:2500, V=1:500)

C:\pwworking\jacobs_uk_highways_ssk\khaner\01555497\HE551497-JAC-HSR-S3_J24-DR-C-0001.dwg - 20/05/2021 19:25:04 - A1Frame - KhanerR



JUNCTION 24 - SECTION 3
INWORTH S
(SCALE 1:2500)



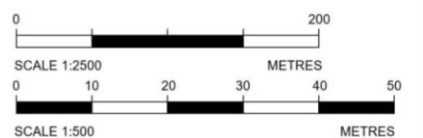
PLAN VIEW
JUNCTION 24 - SECTION 3
INWORTH E
(SCALE 1:2500)



PLAN VIEW
JUNCTION 24 - SECTION 3
INWORTH RDBT
(SCALE 1:2500)

- 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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CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	36.679	-0.281%	36.679	0.000	L=30.212m R=90.000m L=62.452m	G=-0.281% L=138.393	
20.00	38.023	-0.281%	37.905	0.119			
40.00	37.967	-0.281%	37.756	0.209			
60.00	37.911	-0.281%	37.511	0.400			
80.00	37.855	-0.281%	37.884	-0.029			
100.00	37.799	-0.281%	37.636	0.163			
120.00	37.743	-0.281%	37.303	0.440			
141.90			37.140				

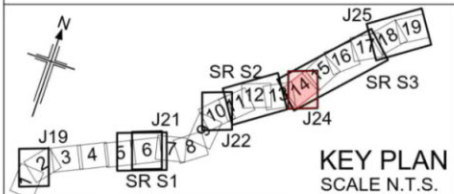
LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - INWORTH S
(SCALE H=1:2500, V=1:500)

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	36.265	2.03%	36.265	0.000	L=11.809m R=50.000m L=40.059m	G=+2.028% L=19.382 R=1000.000 L=6.781	
20.00	36.669	1.96%	36.725	-0.056			
40.00	36.958	1.350%	36.828	0.130			
60.00	37.228	1.350%	36.669	0.559			
80.00	37.498	1.350%	36.478	1.019			
100.95			36.448				

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - INWORTH E
(SCALE H=1:2500, V=1:500)

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	37.891	0.000%	37.891	0.000	L=100.531m	G=0.000% L=100.643	
20.00	37.891	0.000%	37.461	0.430			
40.00	37.891	0.000%	37.746	0.145			
60.00	37.891	0.000%	37.460	0.431			
80.00	37.891	0.000%	37.030	0.861			
100.53	37.891	0.000%	36.932	0.959			

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - INWORTH RDBT
(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	CA	RM	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

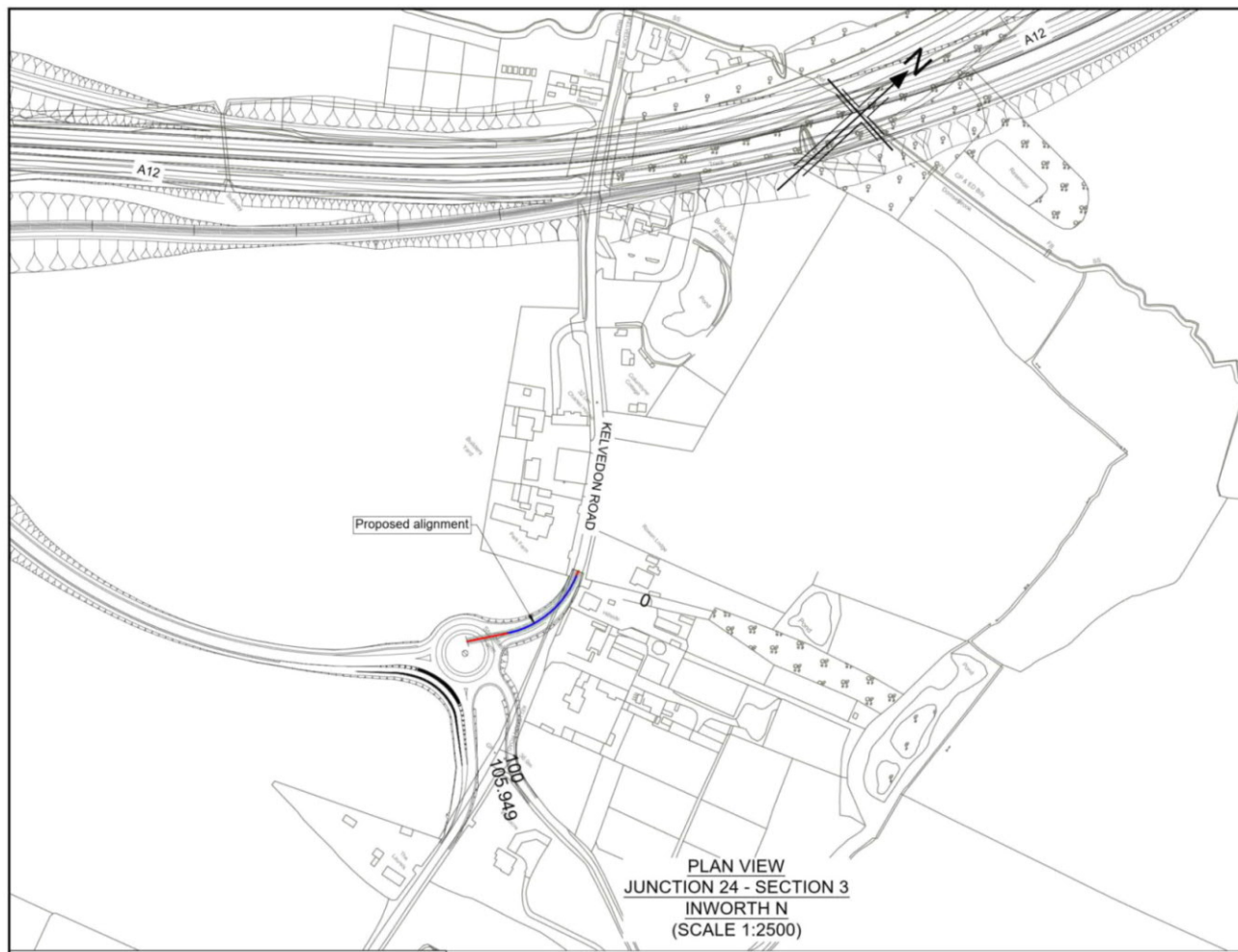
Drawing title: **PLAN AND PROFILE
JUNCTION 24 SECTION 3
INWORTH RDBT
SHEET 2 OF 5**

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

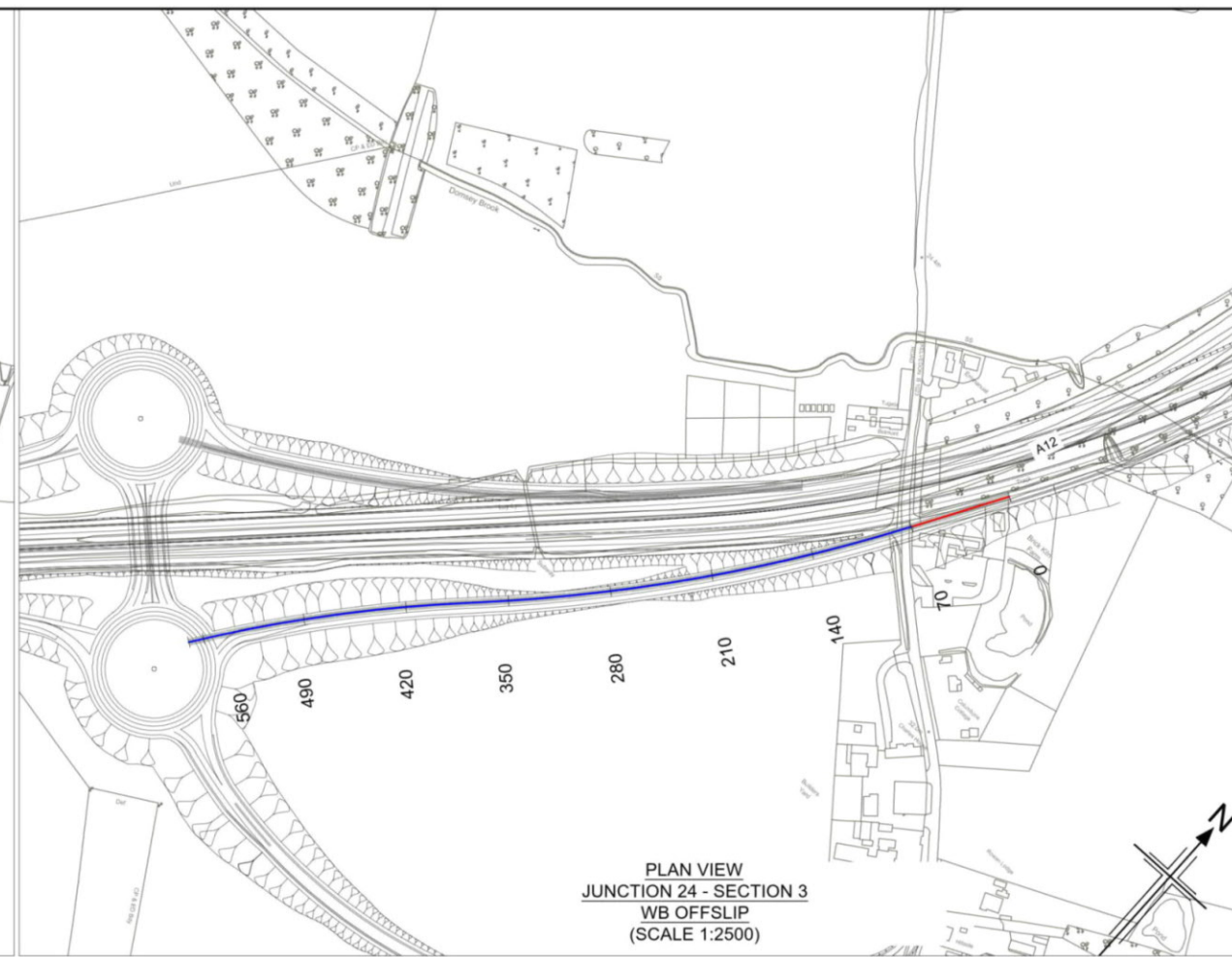
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	
Rev P02	

Drawing number: **HE551497 - JAC - HSR - S3 J24 - DR - C - 0002**

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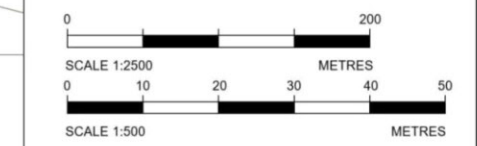
PLAN VIEW
JUNCTION 24 - SECTION 3
INWORTH N
(SCALE 1:2500)



PLAN VIEW
JUNCTION 24 - SECTION 3
WB OFFSLIP
(SCALE 1:2500)

- Notes
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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)



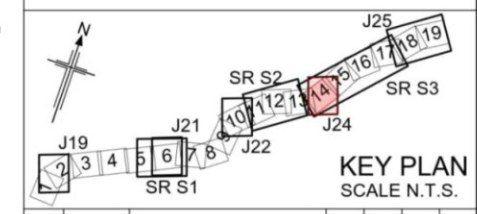
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PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION	CHAINAGE
35.265	4.140%	35.365	0.000	R=65.000m L=3.922m	G=4.140% L=10.329		00+00
36.078	3.818%	35.648	0.430		G=2.001% L=1.374		20+00
36.775	3.494%	36.108	0.666		R=3000.000 L=64.183		40+00
37.338	2.818%	36.648	0.690		G=2.281% L=8.769		60+00
37.785	2.281%	37.043	0.742				80+00
		37.338					86+65

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - INWORTH N
(SCALE H=1:2500, V=1:500)

PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION	CHAINAGE
32.289	1.626%	25.423	6.866	L=70.000m	G=-1.626% L=94.558		00+00
32.615	1.626%	25.484	7.131				20+00
32.940	1.626%	25.492	7.448				40+00
33.265	1.626%	25.548	7.717				60+00
33.590	1.626%	25.983	7.607				80+00
33.912	1.485%	27.867	6.045				100+00
34.157	0.968%	28.426	5.731				120+00
34.299	0.451%	29.388	4.911				140+00
34.337	-0.066%	30.430	3.907				160+00
34.272	-0.584%	31.213	3.059				180+00
34.104	-1.101%	31.746	2.358				200+00
33.832	-1.618%	31.465	2.367				220+00
33.478	-1.800%	31.859	1.619				240+00
33.118	-1.800%	32.554	0.565				260+00
32.758	-1.800%	32.449	0.309				280+00
32.398	-1.800%	32.280	0.118				300+00
32.038	-1.800%	32.343	-0.305				320+00
31.678	-1.800%	32.769	-1.091				340+00
31.318	-1.800%	33.262	-1.944				360+00
30.958	-1.800%	33.969	-3.010				380+00
30.598	-1.800%	34.680	-4.261				400+00
30.238	-1.800%	35.394	-5.146				420+00
29.878	-1.800%	35.553	-5.674				440+00
29.518	-1.800%	35.443	-5.925				460+00
29.158	-1.800%	35.059	-5.941				480+00
28.798	-1.800%	34.676	-6.178				500+00
28.438	-1.800%	34.423	-5.985				520+00
28.078	-1.800%	34.319	-6.241				540+00
28.214	1.979%	34.572	-6.358				560+00
		34.558					576+34

LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - WB OFFSLIP
(SCALE H=1:2500, V=1:500)



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

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

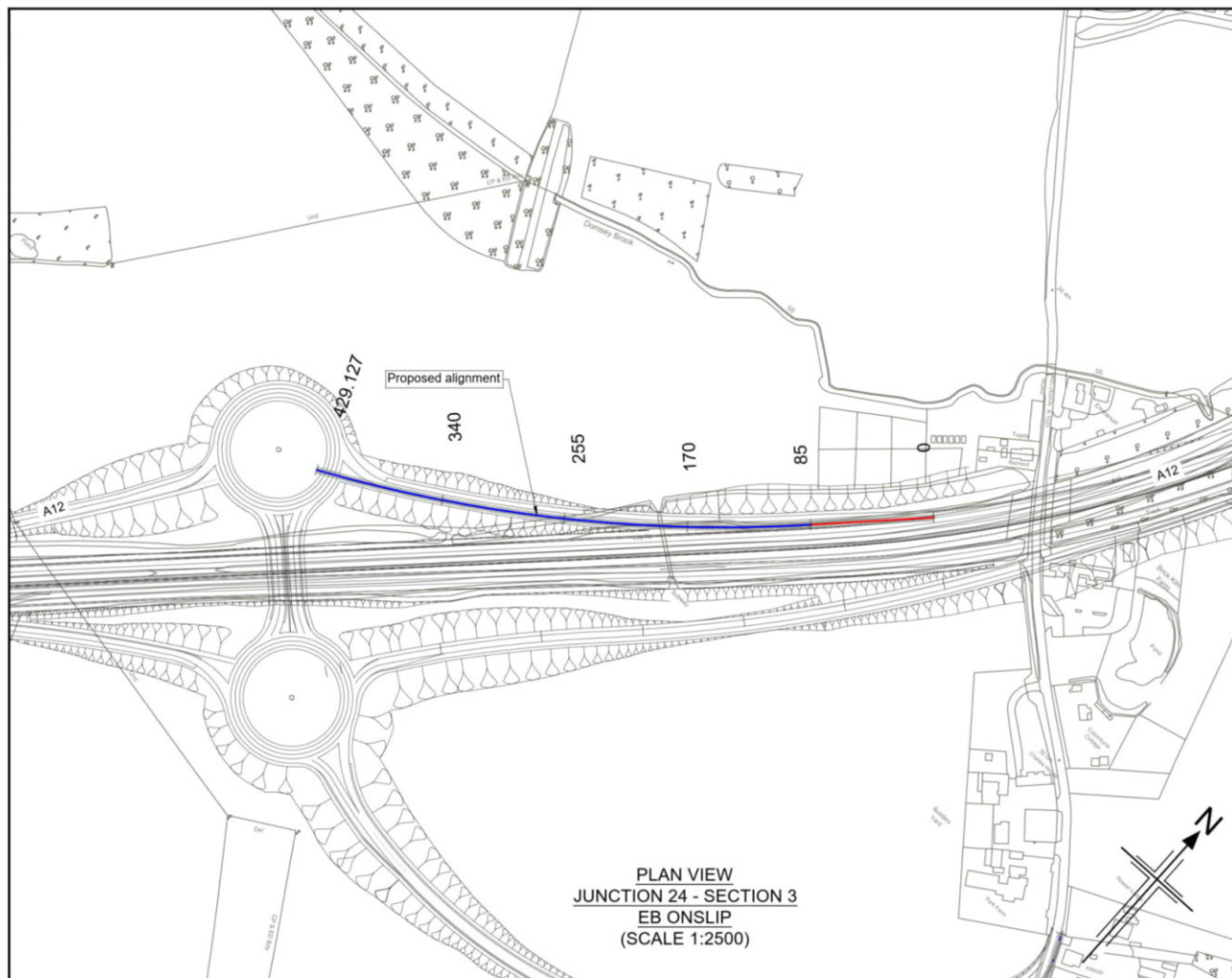
Drawing title: **PLAN AND PROFILE
JUNCTION 24 SECTION 3
INWORTH N
SHEET 3 OF 5**

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

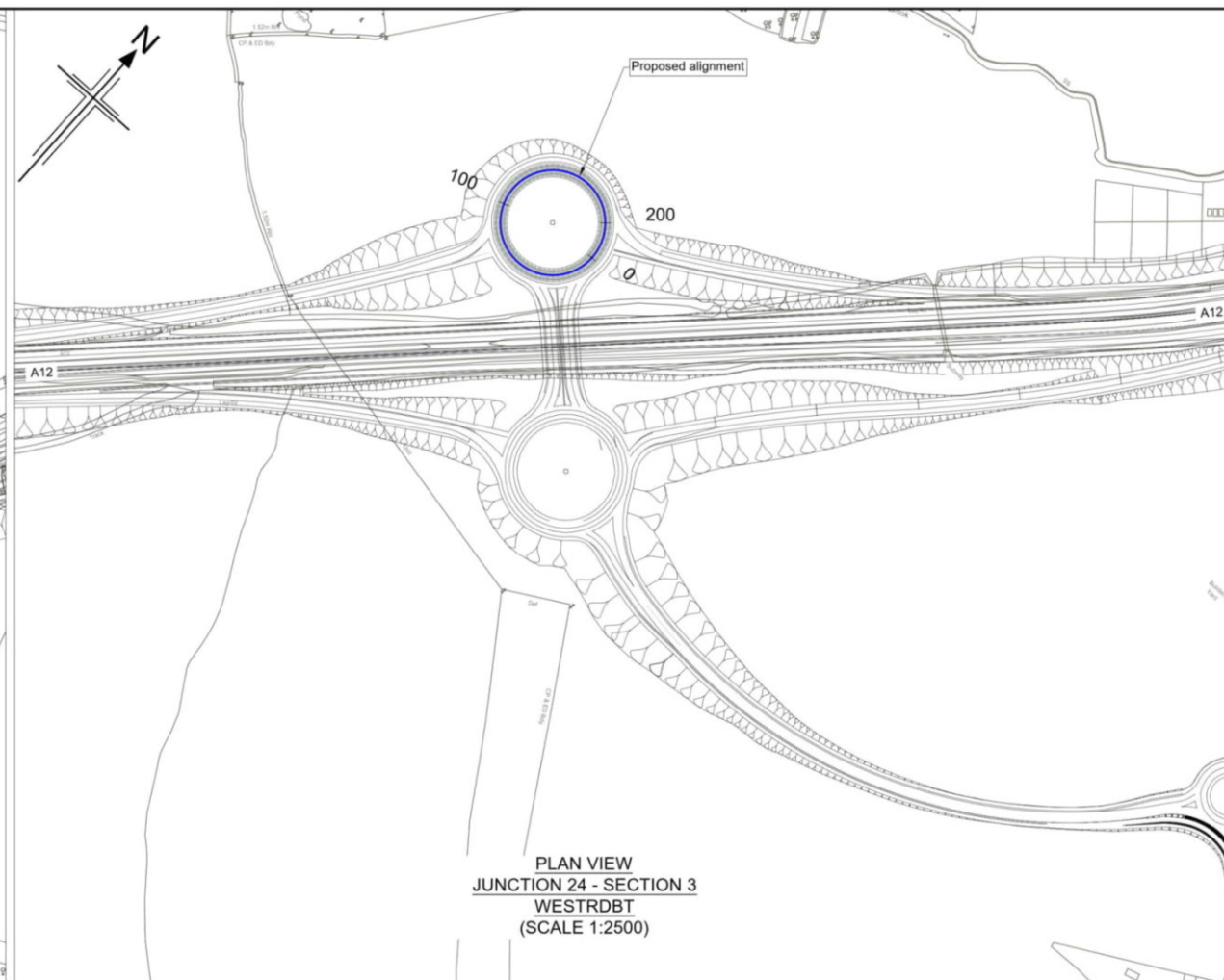
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: **HE551497 - JAC - HSR - S3 J24 - DR - C -0003**

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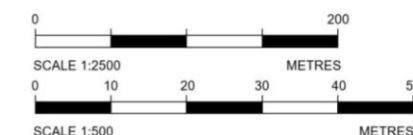
PLAN VIEW
JUNCTION 24 - SECTION 3
EB ONSLIP
(SCALE 1:2500)



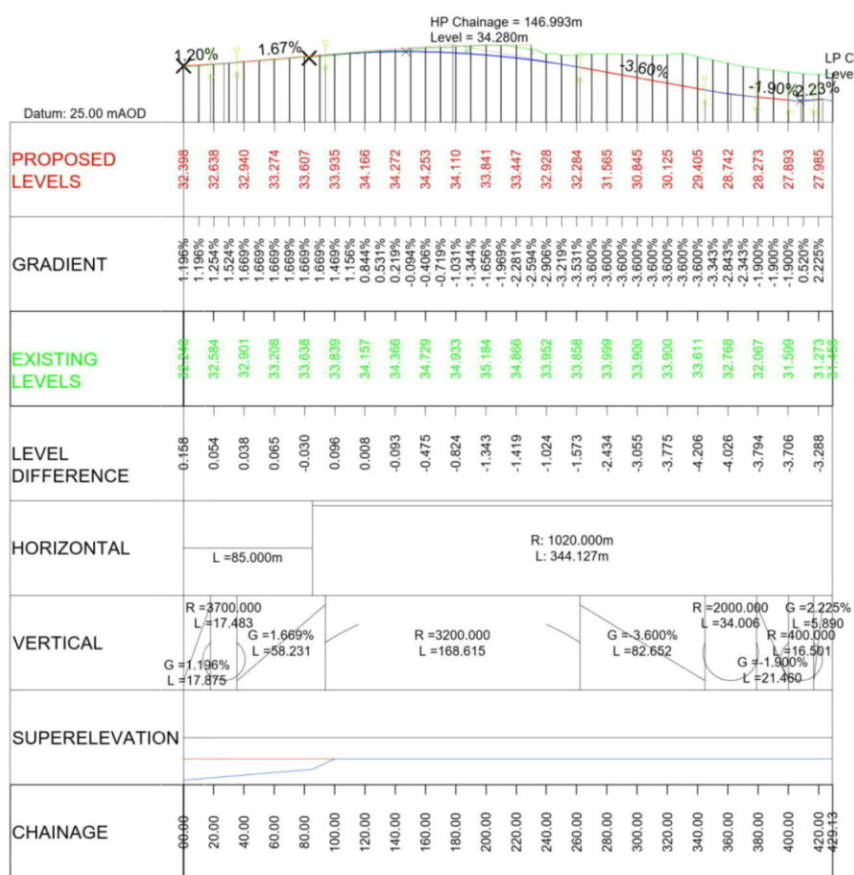
PLAN VIEW
JUNCTION 24 - SECTION 3
WESTRDBT
(SCALE 1:2500)

- Notes
1. This drawing shall only be used for the design element stated in the drawing title.
 2. All dimensions are in metres unless noted otherwise.
 3. The base mapping is based on Ordnance Survey (O/S) Data.
 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.

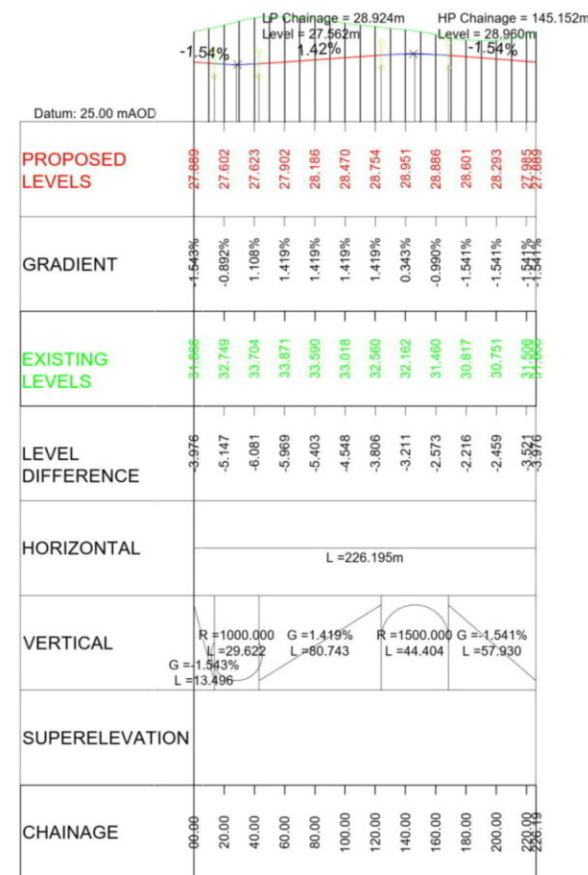
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



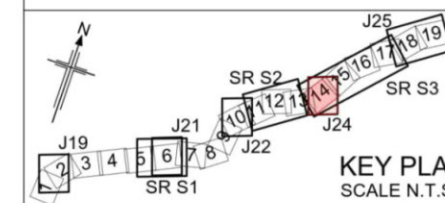
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LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - EB ONSLIP
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - WESTRDBT
(SCALE H=1:2500, V=1:500)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	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
JUNCTION 24 SECTION 3
WESTRDBT
SHEET 4 OF 5

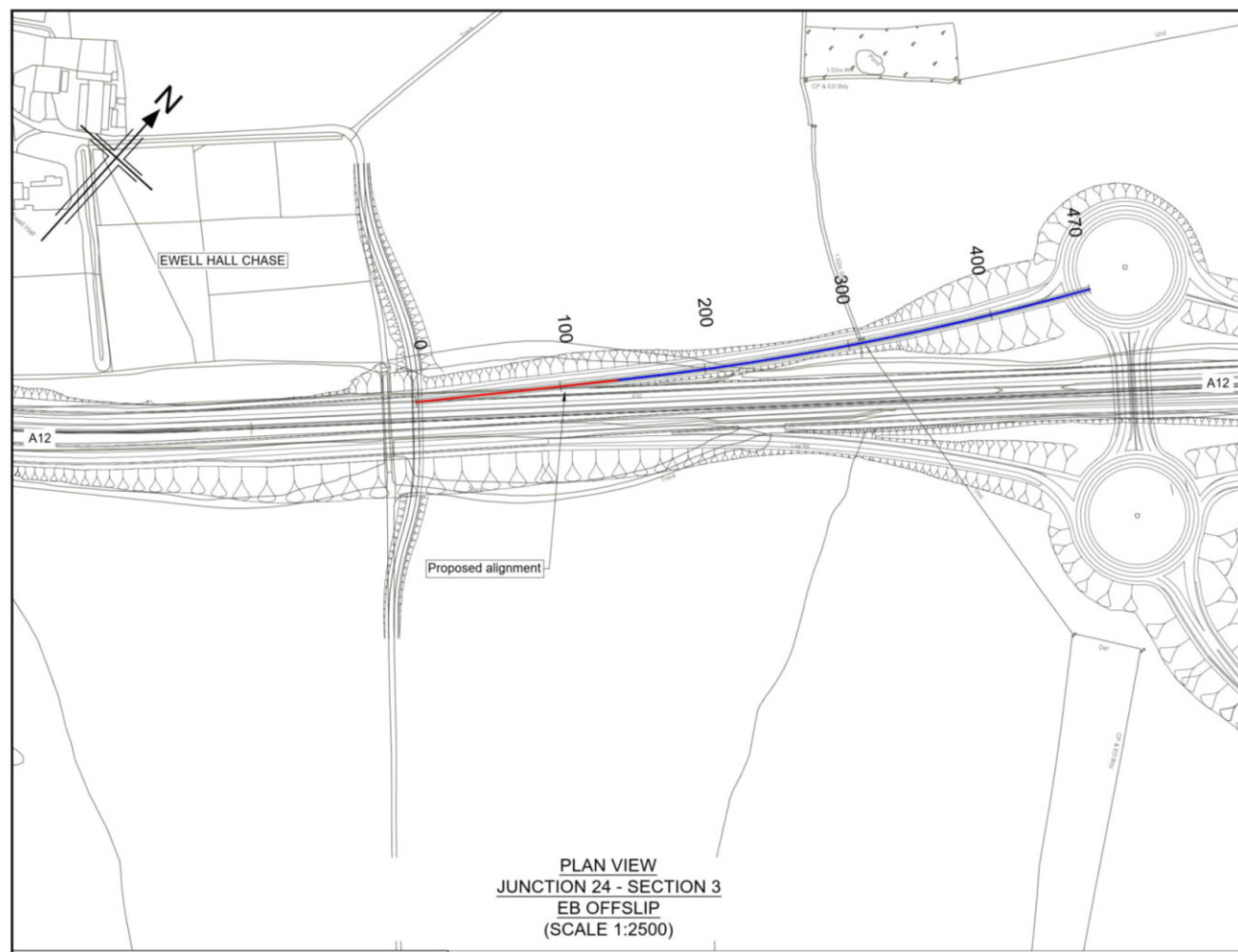
Drawing status: S2 - SUITABLE FOR INFORMATION

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

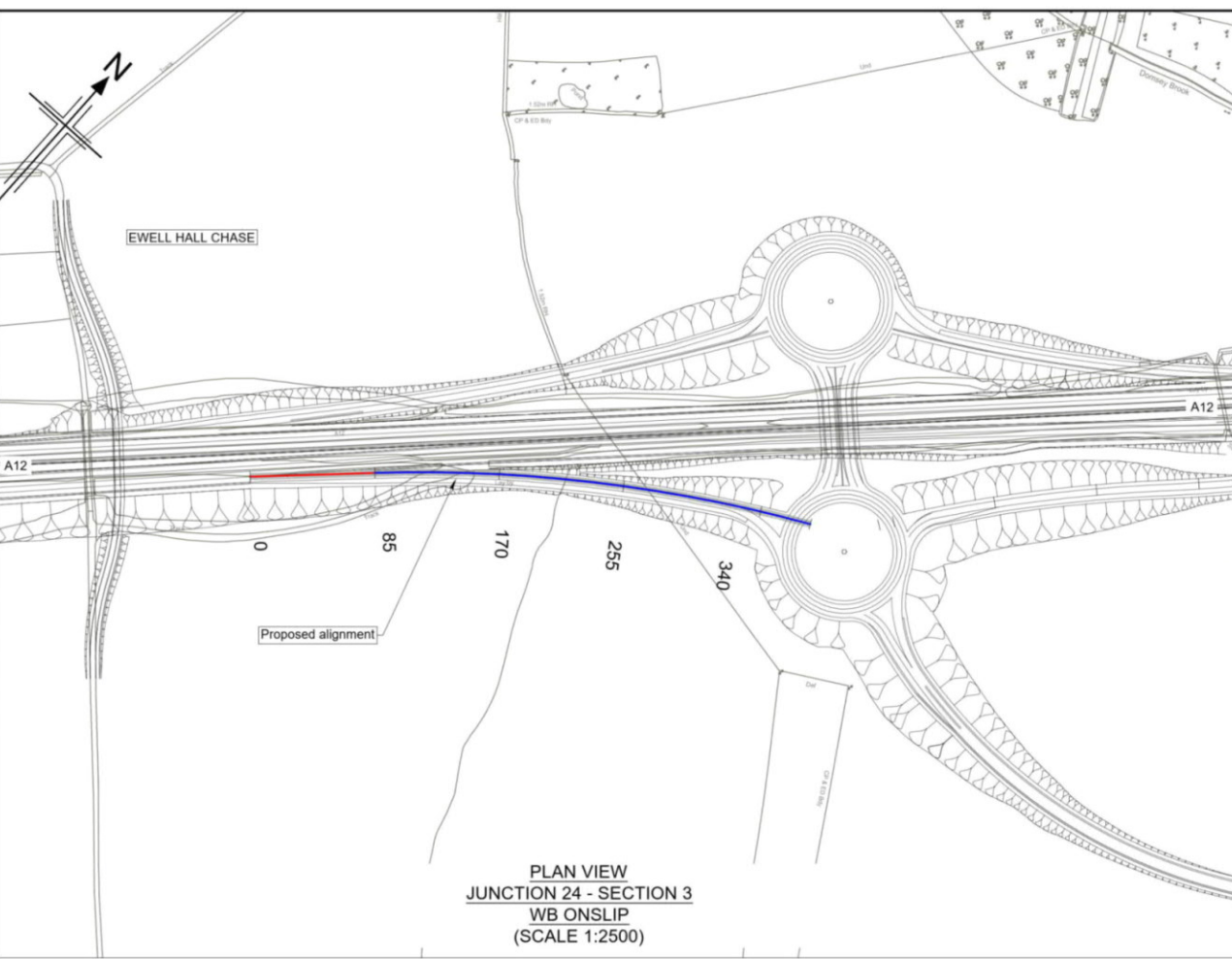
Drawing number: HE551497 - JAC - HSR - S3 J24 - DR - C - 0004

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C:\pwworking\jacobs_uk_highways_ssk\kharer\01554545HE551497-JAC-HSR-S3_J24-DR-C-0004.dwg - 20/05/2021 19:41:45 - A1Frame - Kharer



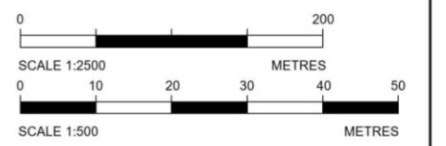
PLAN VIEW
JUNCTION 24 - SECTION 3
EB OFFSLIP
(SCALE 1:2500)



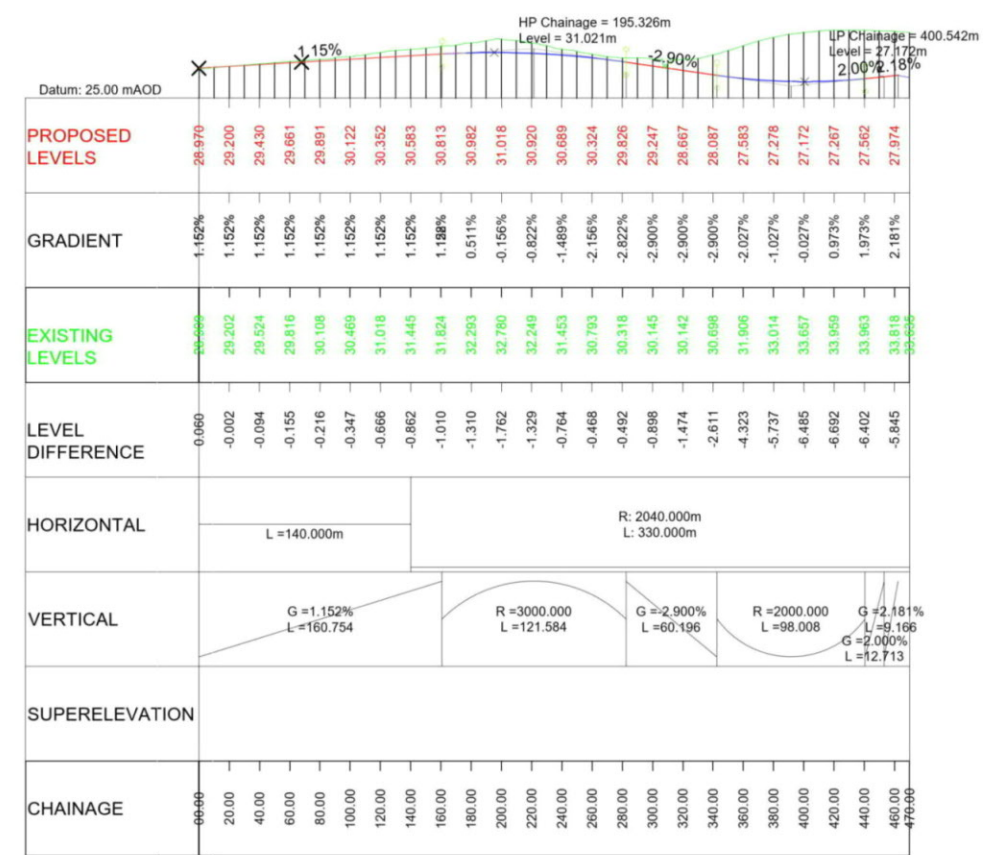
PLAN VIEW
JUNCTION 24 - SECTION 3
WB ONSLIP
(SCALE 1:2500)

- Notes
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 - All dimensions are in metres unless noted otherwise.
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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.

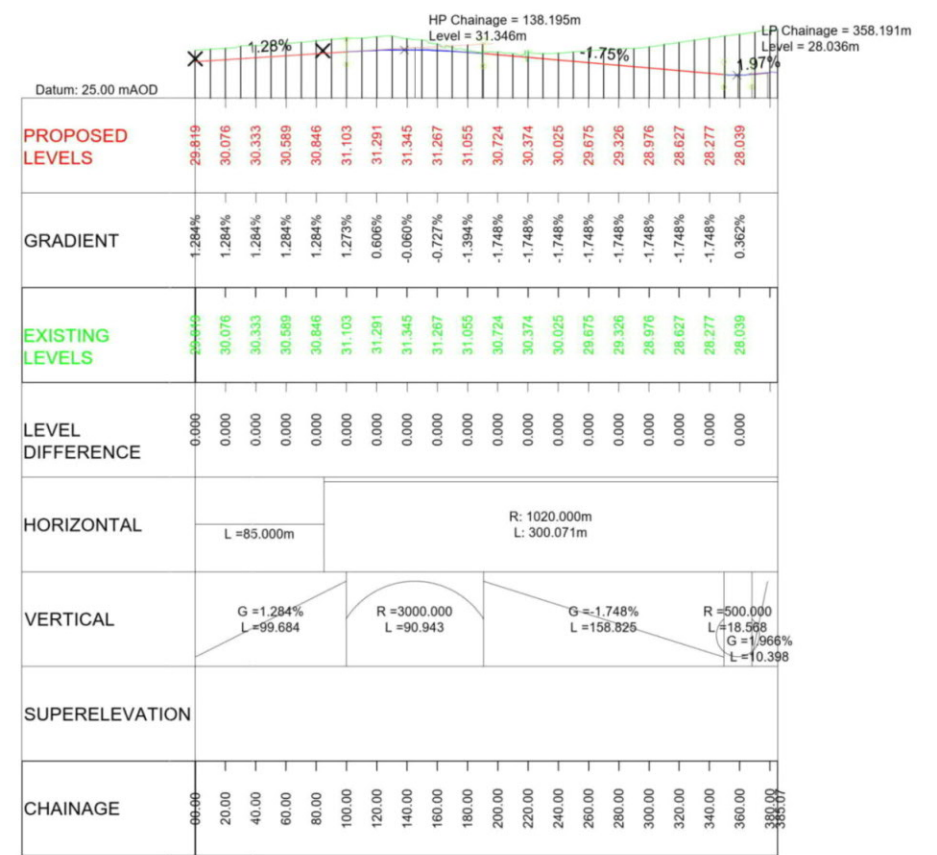
- Key
- PLAN
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



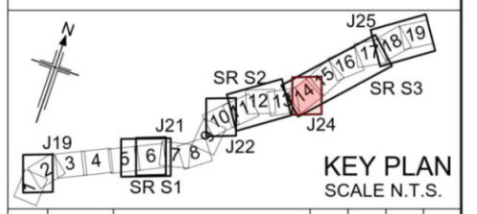
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LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - EB OFFSLIP
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 24 - SECTION 3 - WB ONSLIP
(SCALE H=1:2500, V=1:500)



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

Contractor: **COSTAIN** Designer: **JACOBS**
 2nd Floor Cottons Centre, Cottons Lane
 London SE1 2QS. 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
 JUNCTION 24 SECTION 3
 EB OFFSLIP WB ONSLIP
 SHEET 5 OF 5

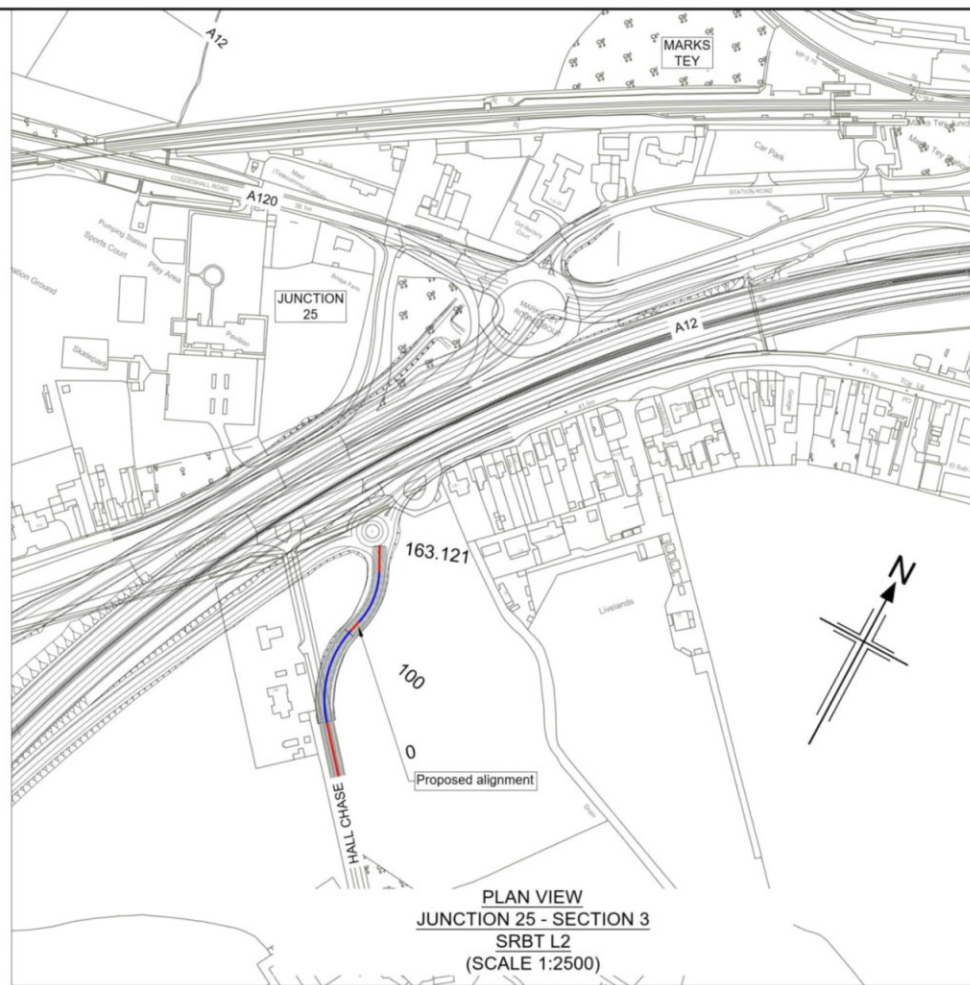
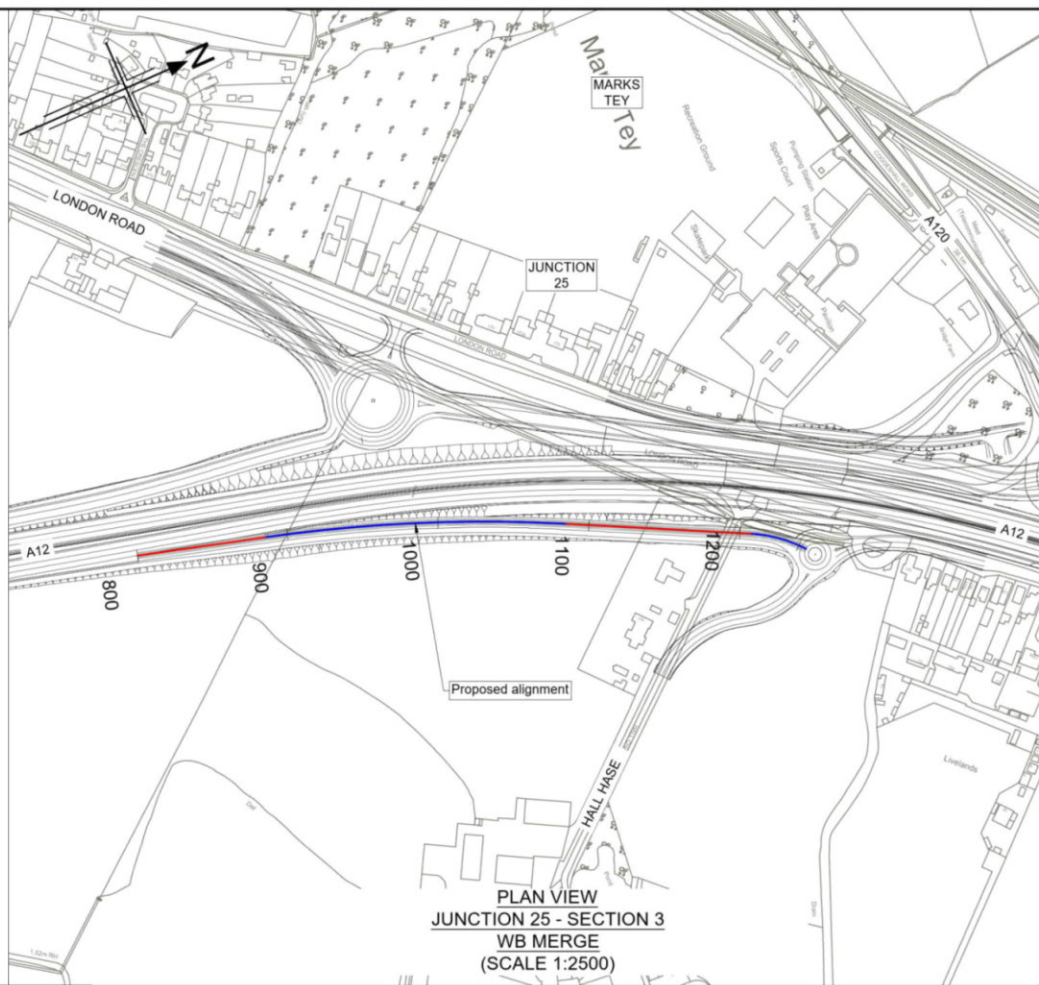
Drawing status: S2 - SUITABLE FOR INFORMATION

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

Drawing number: HE551497 - JAC - HSR - S3 J24 - DR - C - 0005

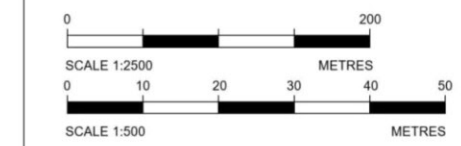
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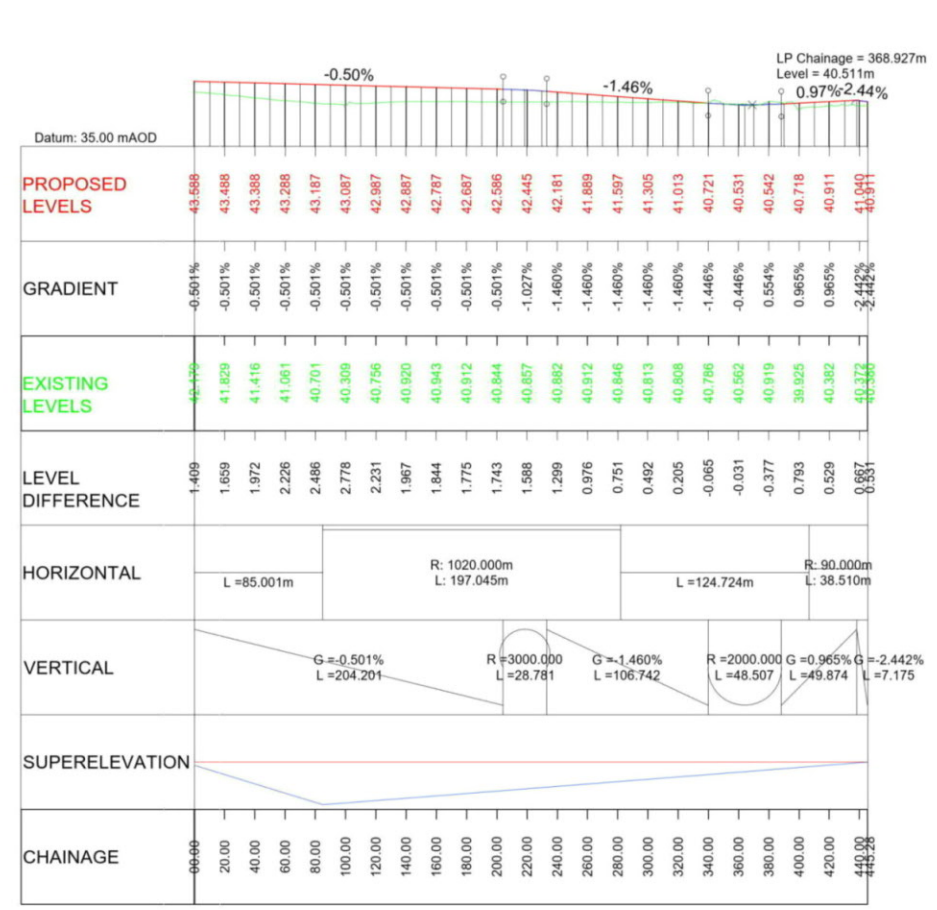


- Notes**
1. This drawing shall only be used for the design element stated in the drawing title.
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 4. Only written dimension shall be used.
 5. For Sheet Layout Plan refer to:
HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.
HE551497-JAC-HGN-SCHW-DR-C-0029 for Junction profiles.
HE551497-JAC-HGN-SCHW-DR-C-0030 for Sideroad profiles.

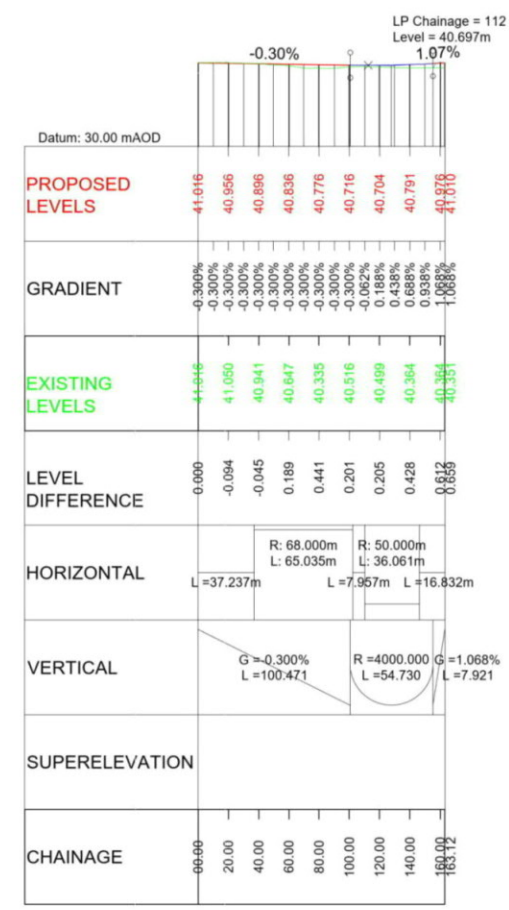
- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



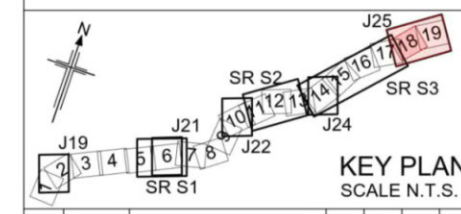
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LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - WB MERGE
(SCALE H=1:2500, V=1:500)



LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - SRBT L2
(SCALE H=1:2500, V=1:500)



KEY PLAN
SCALE N.T.S.

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

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

Client: **highways england**

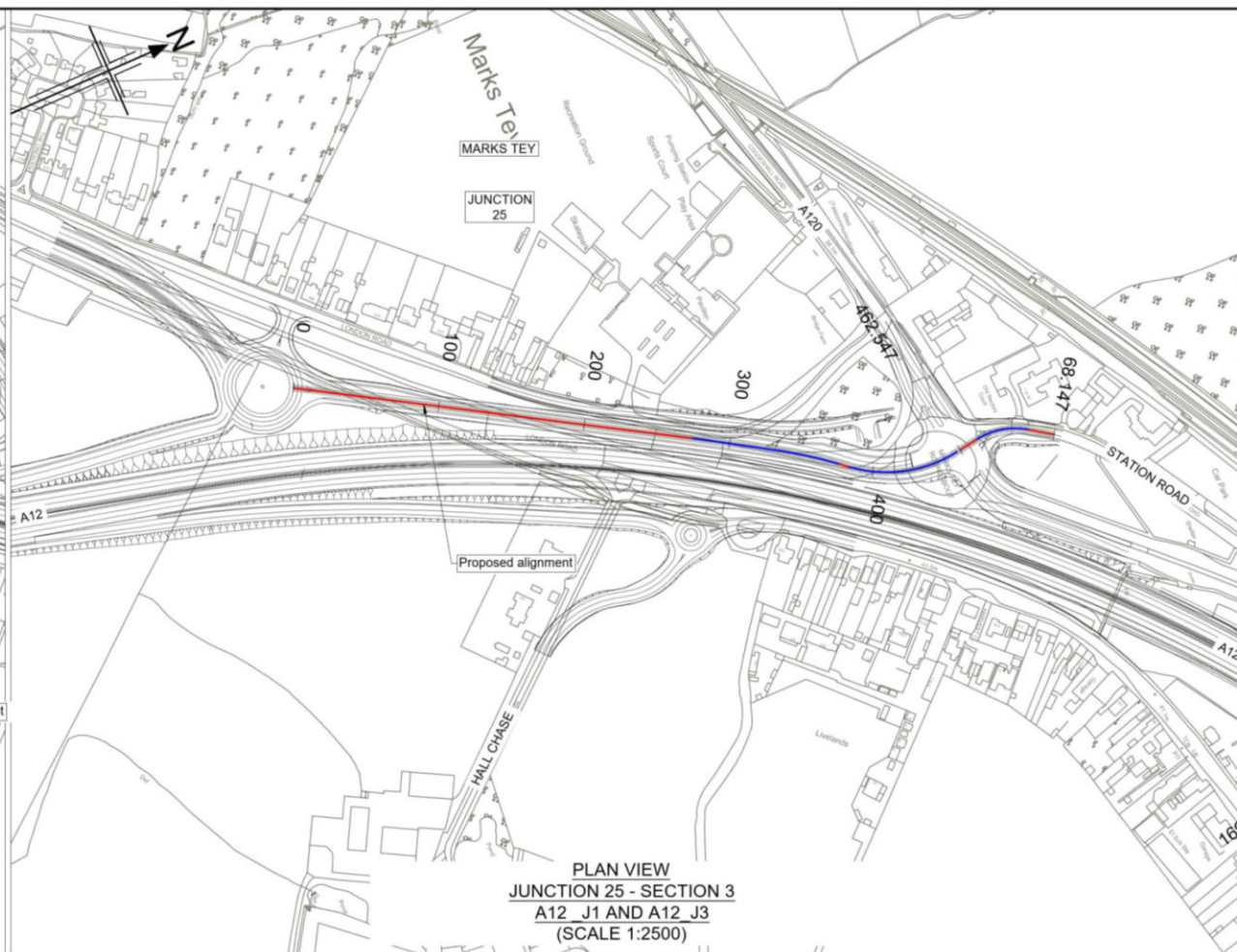
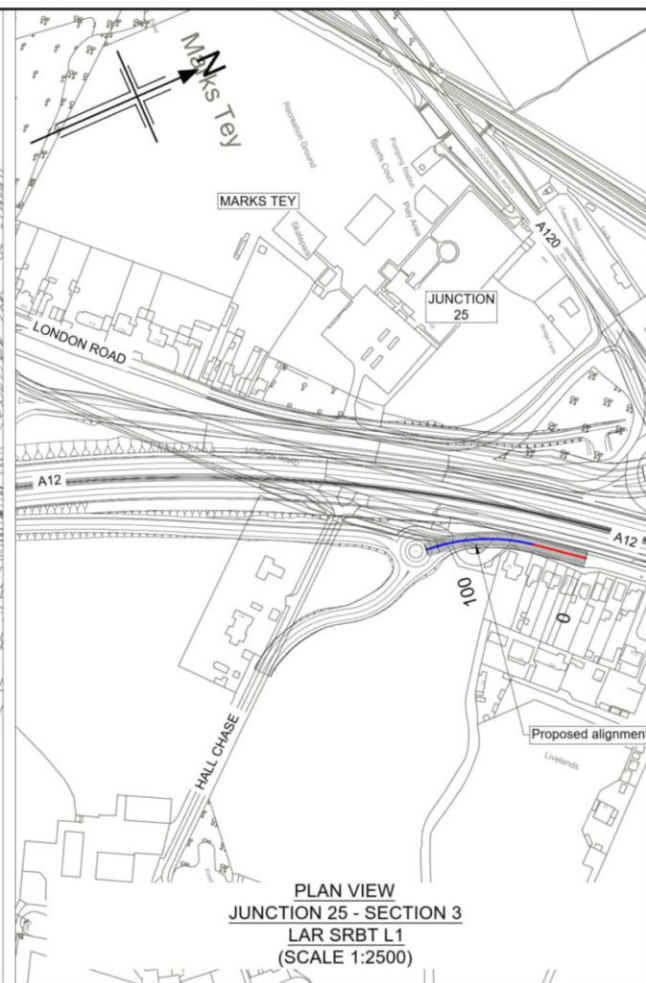
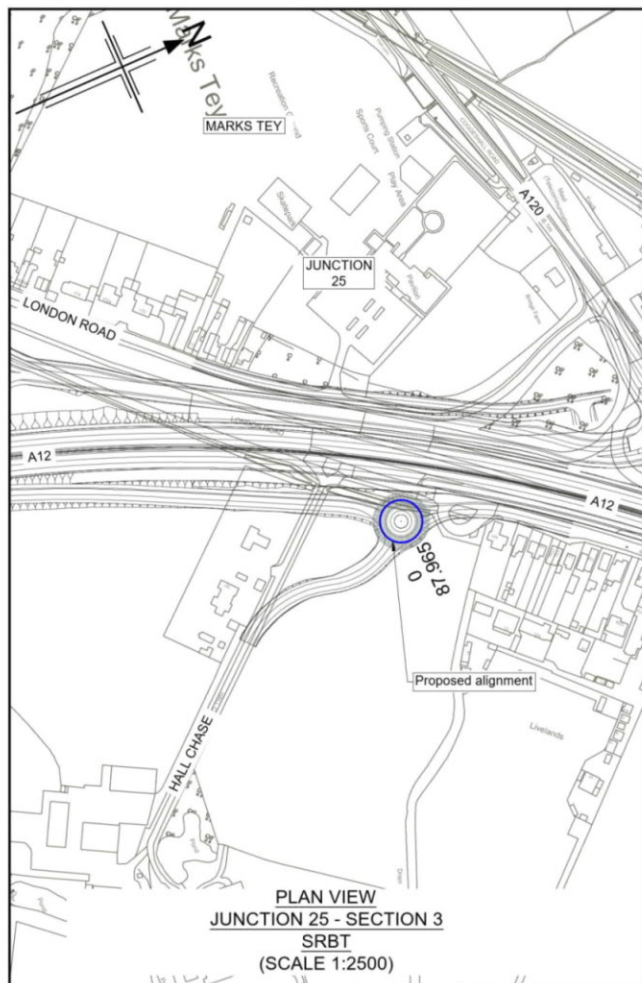
Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **PLAN AND PROFILE
JUNCTION 25 SECTION 3
WB MERGE AND SRBT L2
SHEET 1 OF 7**

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

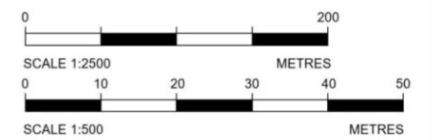
State Code	Preliminary
Project Stage	PCF3
Scale	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	HE551497 - JAC - HSR - S3 J25 - DR - C - 0001

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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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Datum: 40.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	41.083	0.007%	40.965	0.118	L=87.965m	G=0.007% L=87.965	
20+00	41.085	0.007%	40.956	0.129			
40+00	41.086	0.007%	40.875	0.211			
60+00	41.088	0.007%	41.170	-0.082			
80+00	41.089	0.007%	40.923	0.166			
87+965	41.089	0.007%	40.965	0.124			

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - SRBT
(SCALE H=1:2500, V=1:500)

Datum: 40.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	40.983	-0.391%	41.080	-0.097	L=35.813m R=120.000m	G=-0.391% L=54.405	
20+00	40.985	-0.391%	40.956	0.029			
40+00	40.906	-0.391%	40.837	0.069			
60+00	40.838	-0.062%	40.760	0.078			
80+00	40.941	0.527%	40.773	0.168			
107+81	41.139	0.988%	40.460	0.679			
107+81	41.216	0.99%	40.970	0.246			

LP Chainage = 61.047m
Level = 40.837m

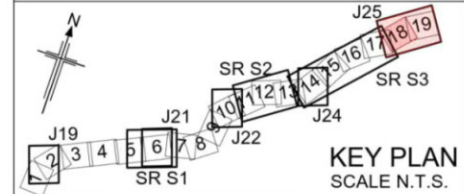
LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - LAR SRBT L1
(SCALE H=1:2500, V=1:500)

Datum: 35.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00+00	40.682	0.795%	40.724	-0.042	L=275.000m	G=0.795% L=42.656	
20+00	40.841	0.795%	39.985	0.856			
40+00	41.000	0.795%	40.996	0.004			
60+00	41.149	0.746%	41.192	-0.043			
80+00	41.272	0.680%	41.374	-0.102			
100+00	41.368	0.490%	41.448	-0.080			
120+00	41.437	0.143%	41.424	0.013			
140+00	41.480	0.213%	41.395	0.085			
160+00	41.496	0.080%	41.516	-0.020			
180+00	41.485	0.021%	41.429	0.056			
200+00	41.448	0.187%	41.328	0.120			
220+00	41.384	0.320%	41.244	0.140			
240+00	41.293	0.454%	41.138	0.155			
260+00	41.187	0.529%	41.040	0.147			
280+00	41.091	0.529%	40.971	0.111			
300+00	40.975	0.529%	40.895	0.081			
320+00	40.870	0.529%	40.792	0.077			
340+00	40.764	0.529%	40.741	0.023			
360+00	40.658	0.529%	40.474	0.184			
380+00	40.552	0.529%	40.220	0.332			
400+00	40.446	0.529%	40.215	0.231			
420+00	40.340	0.529%	40.124	0.217			
440+00	40.235	0.529%	41.406	-1.171			
462+547	40.149	0.500%	41.133	-0.984			
482+900	39.953	0.500%	40.361	-0.408			
500+00	39.853	0.500%	39.946	0.087			
520+00	39.753	0.500%	39.746	0.007			
540+00	39.653	0.500%	39.546	0.107			
560+00	39.553	0.500%	39.346	0.207			
580+00	39.453	0.500%	39.146	0.307			
600+00	39.353	0.500%	38.946	0.407			

HP Chainage = 161.956m
Level = 41.496m

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - A12 J1 AND A12 J3
(SCALE H=1:2500, V=1:500)



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

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

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

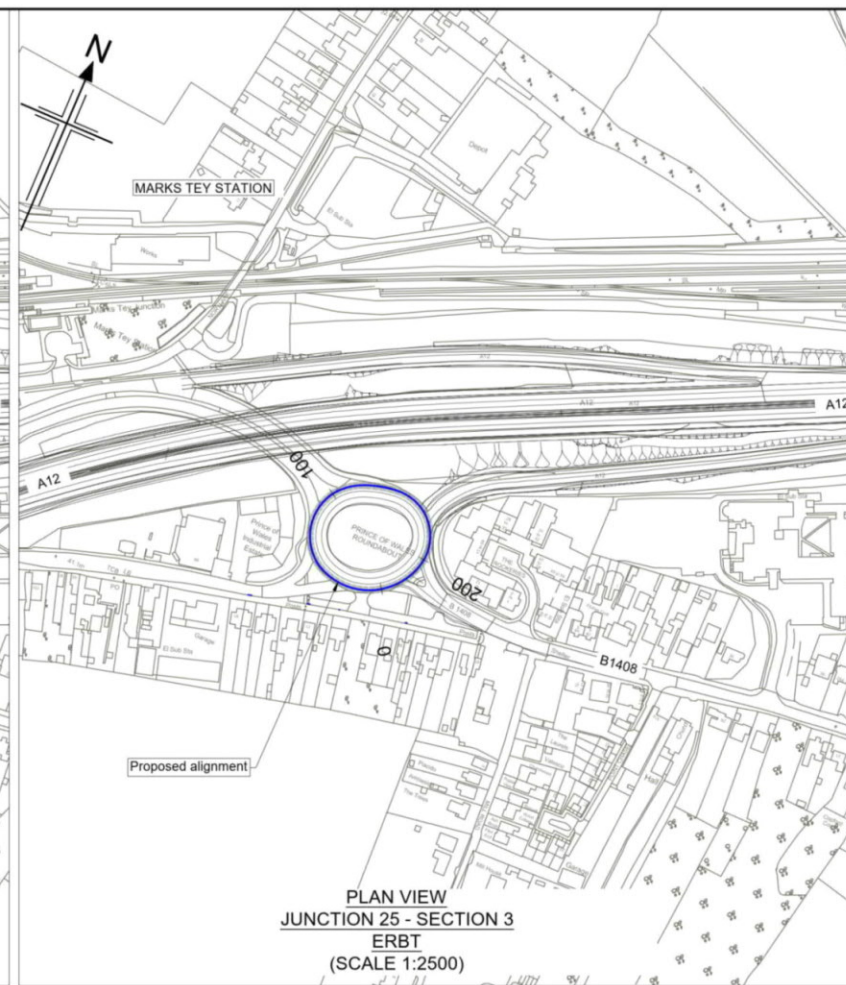
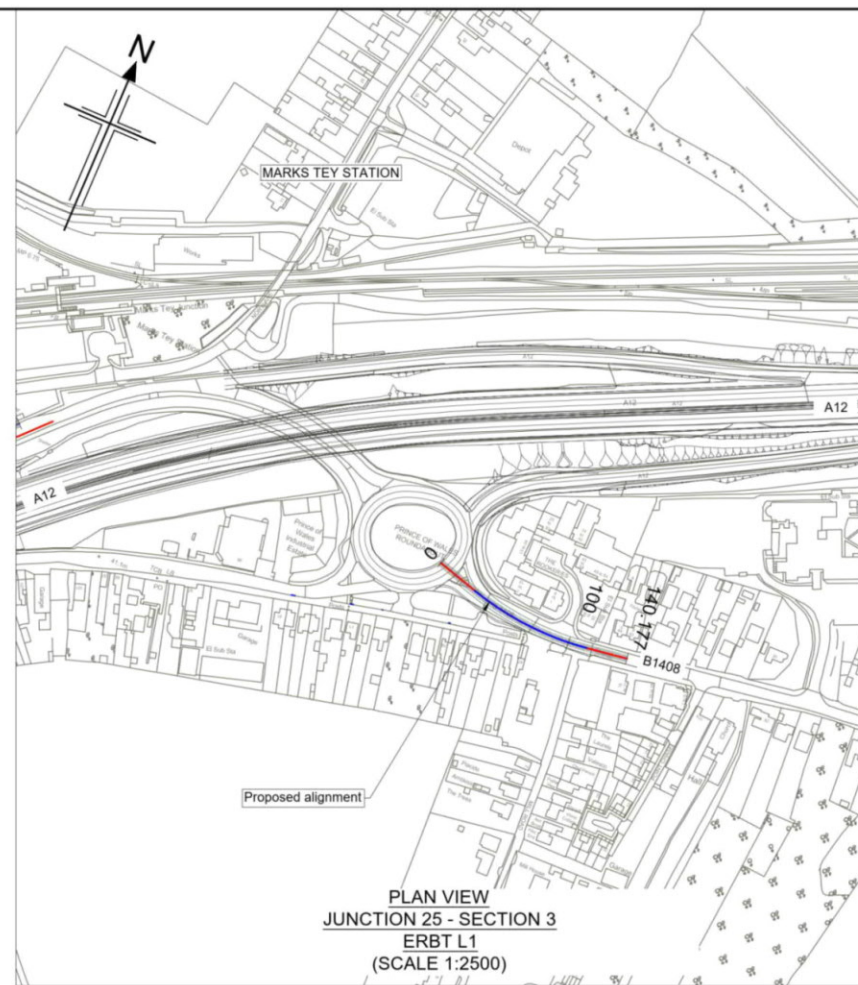
Drawing title: PLAN AND PROFILE
JUNCTION 25 SECTION 3
SRBT L2/LAR, L1/A12 J1 & A12 J3
SHEET 2 OF 7

Drawing status: S2 - SUITABLE FOR INFORMATION

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

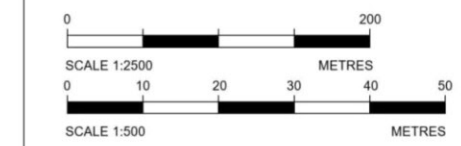
Drawing number: HE551497 - JAC - HSR - S3 J25 - DR - C - 0002
Originator: JAC - HSR - S3 J25
Volume: -DR- C - 0002

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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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HP Chainage = 44.661m
Level = 40.157m
-0.64%

Datum: 35.00 mAOD

PROPOSED LEVELS	39.766	40.030	40.153	40.108	39.979	39.850	39.722	39.593
GRADIENT	1.300%	1.034%	0.615%	-0.224%	-0.644%	-0.644%	-0.644%	-0.644%
EXISTING LEVELS	39.766	40.256	40.172	40.000	39.960	39.870	39.766	39.692
LEVEL DIFFERENCE	0.000	-0.226	-0.020	0.048	0.019	-0.020	-0.044	0.008
HORIZONTAL	L=27.975m		R: 199.389m		L: 26.773m			
VERTICAL	R=2385.512 L=48.723		G=-0.644% L=80.161					
SUPERELEVATION								
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00

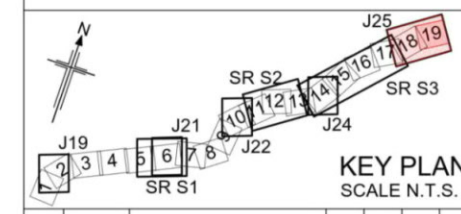
LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - ERBT L1
(SCALE H=1:2500, V=1:500)

HP Chainage = 38.615m
Level = 40.195m
LP Chainage = 127.508m
Level = 39.371m
0.85%
0.13%

Datum: 35.00 mAOD

PROPOSED LEVELS	39.882	40.117	40.195	40.092	39.825	39.535	39.363	39.405	39.564	39.732	39.831	39.861	39.862
GRADIENT	1.299%	1.283%	0.835%	0.386%	-0.062%	-0.511%	-1.406%	-1.507%	-1.190%	-1.757%	-0.325%	0.108%	0.852%
EXISTING LEVELS	39.882	40.116	40.195	39.892	39.666	39.726	39.374	39.380	39.676	39.640	39.620	40.086	39.862
LEVEL DIFFERENCE	0.000	0.000	-0.004	0.201	0.159	-0.192	0.009	0.015	-0.112	0.092	0.003	-0.225	0.000
HORIZONTAL	R: 41.904m L: 46.066m		R: 33.636m L: 57.176m		R: 37.977m L: 18.835m		R: 31.258m L: 55.112m		R: 76.737m L: 20.731m		R: 42.666m L: 31.935m		
VERTICAL	R=2230.013 L=62.553		G=-1.507% L=20.478		R=2311.720 L=54.578		G=-0.855% L=27.789		R=4163.634 L=30.000		G=-0.134% L=30.097		
SUPERELEVATION													
CHAINAGE	00.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	238.615

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - ERBT
(SCALE H=1:2500, V=1:500)



PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	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**

Originator: **Jacobs**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QS. 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
JUNCTION 25 SECTION 3
ERBT L1/ERBT
SHEET 3 OF 7

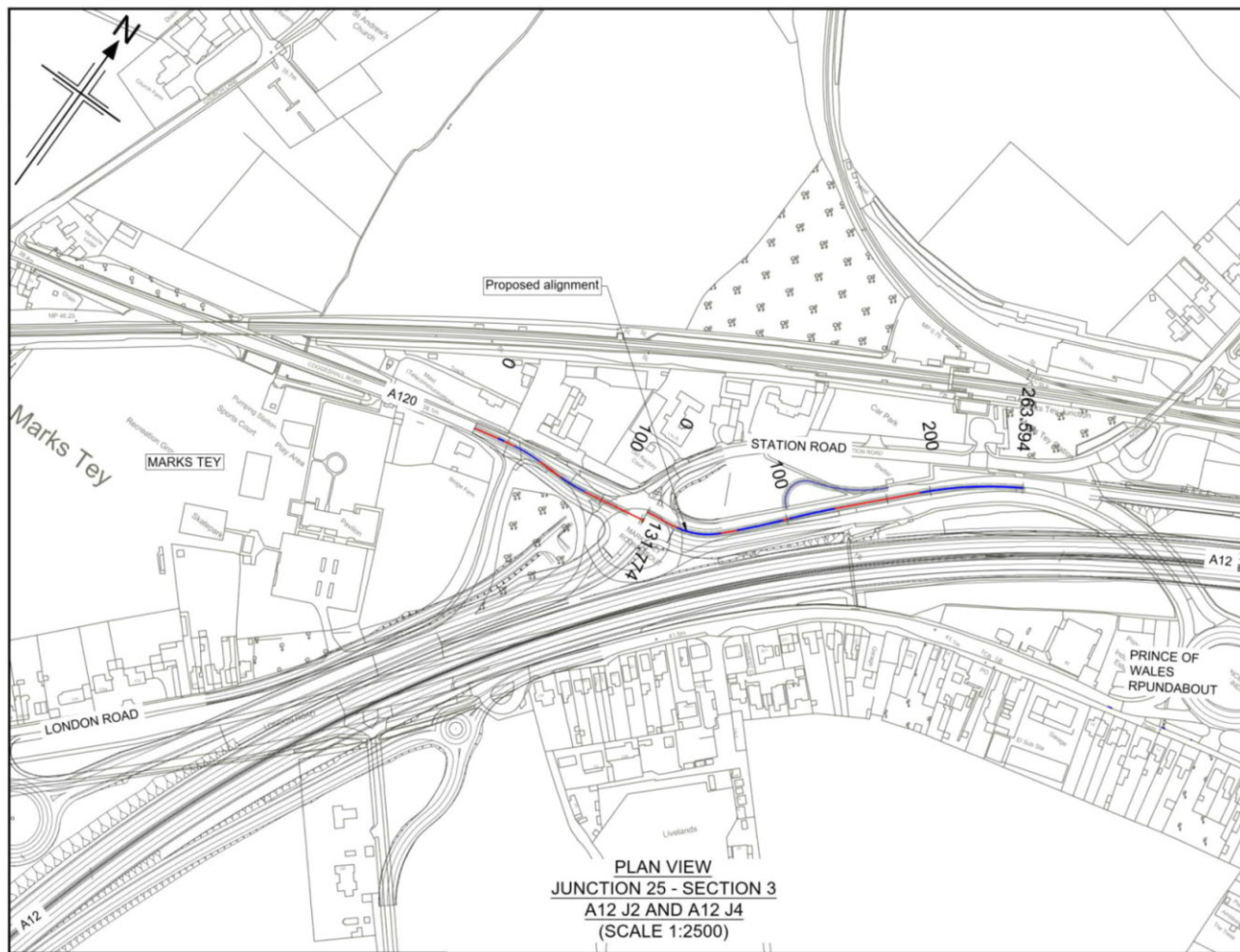
Drawing status: S2 - SUITABLE FOR INFORMATION

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

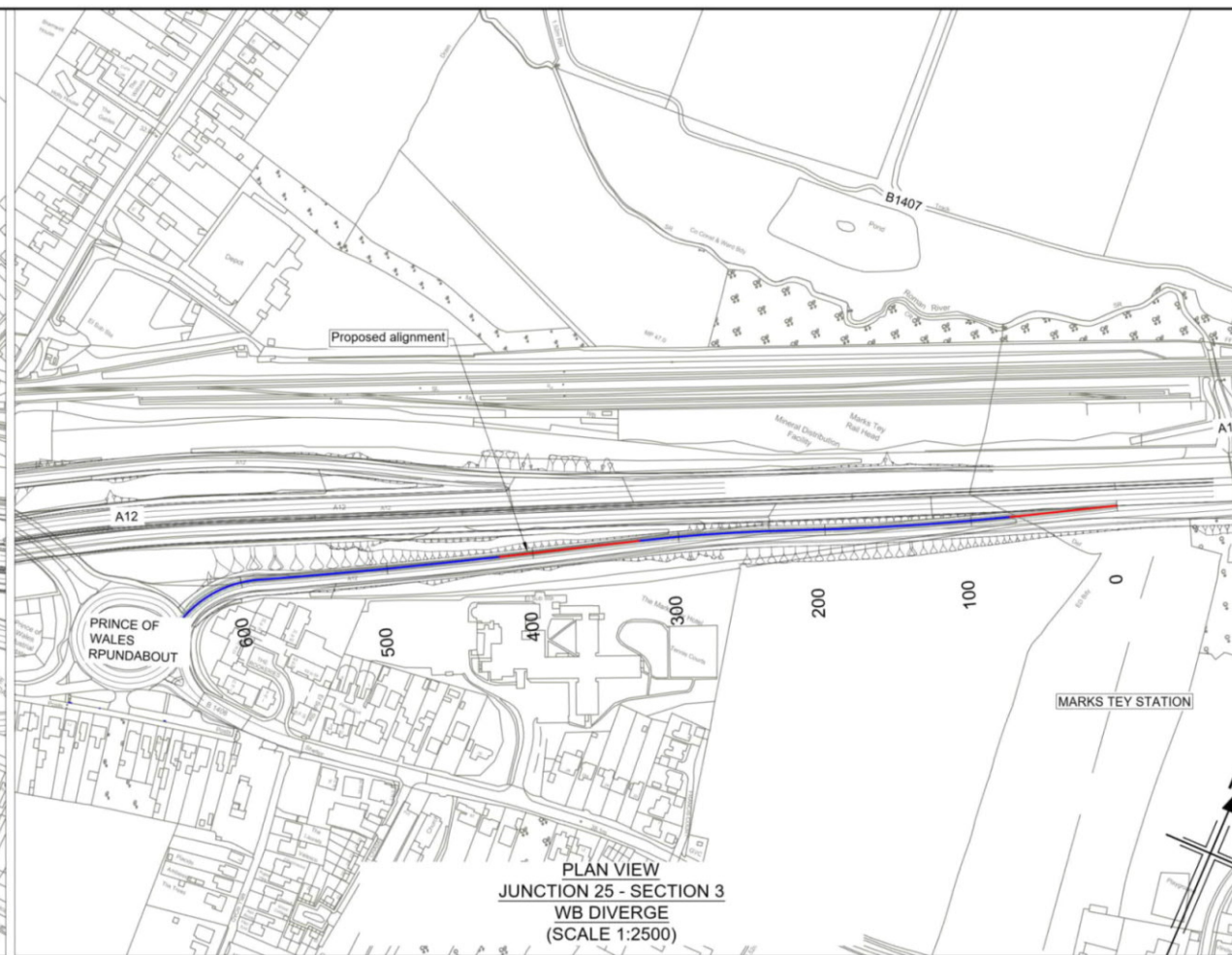
Drawing number: HE551497 - JAC - HSR - S3_J25 - DR - C -0003

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C:\pwworking\jacobs_uk_highways_ssk\kharer\0155545\HE551497-JAC-HSR-S3_J25-DR-C-0003.dwg - 20/05/2021 19:56:27 - A1Frame - Kharer



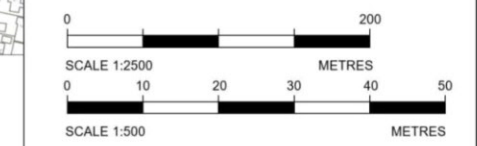
PLAN VIEW
JUNCTION 25 - SECTION 3
A12 J2 AND A12 J4
(SCALE 1:2500)



PLAN VIEW
JUNCTION 25 - SECTION 3
WB DIVERGE
(SCALE 1:2500)

- Notes
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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)



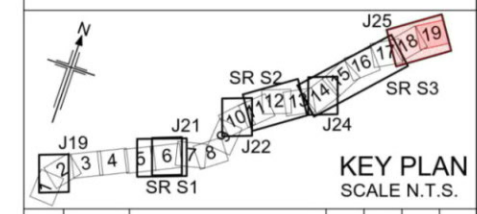
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Chainage	Proposed Levels	Gradient	Existing Levels	Level Difference	Horizontal	Vertical	Superelevation	Chainage
0+00	38.596	2.577%	38.923	0.190	R: 100.000m L: 4.421m	G = 2.577% L = 75.999		20.00
20.00	38.112	2.577%	39.257	0.370	R: 100.000m L: 19.827m	R = 1000.000 L = 39.523		40.00
40.00	39.627	2.577%	38.865	0.270	R: 100.000m L: 8.094m	G = 0.800% L = 25.300		60.00
60.00	40.134	2.577%	40.276	0.093	R: 50.000m L: 3.636m	G = -1.378% L = 16.253		80.00
80.00	40.370	1.177%	40.894	-0.679	R: 510.000m L: 32.268m	G = -1.476% L = 1.994		100.00
100.00	40.215	-0.822%	40.544	-0.489	R: 510.000m L: 4.053m			120.00
120.00	40.187	0.800%	40.174	0.013	R: 510.000m L: 32.490m			140.00
140.00	40.311	0.310%	40.316	-0.007	R: 255.000m L: 70.788m			160.00
160.00	40.306	-0.023%	40.035	0.271				180.00
180.00	40.168	-0.020%	39.939	0.230				200.00
200.00	39.905	-1.357%	39.810	0.096				220.00
220.00	39.653	-1.116%	39.633	0.020				240.00
240.00	39.459	-0.869%	39.536	-0.077				260.00
260.00	39.324	-0.875%	39.422	-0.098				280.00
280.00	39.247	-0.381%	39.329	-0.081				300.00
300.00	39.230	-0.060%	39.239	-0.009				320.00
320.00	39.271	0.354%	39.239	0.033				340.00
340.00	39.371	0.901%	39.260	0.111				360.00
360.00	39.492	0.600%	39.566	-0.126				380.00
380.00		0.600%	39.653					400.00

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - A12 J2 AND A12 J4
(SCALE H=1:2500, V=1:500)

Chainage	Proposed Levels	Gradient	Existing Levels	Level Difference	Horizontal	Vertical	Superelevation	Chainage
0+00	29.332	-0.093%	29.431	-0.098	L = 73.097m	G = -0.093% L = 69.300		20.00
20.00	29.314	-0.093%	29.503	-0.189				40.00
40.00	29.295	-0.093%	29.606	-0.311	R: 1740.000m L: 146.622m	G = 0.500% L = 186.914		60.00
60.00	29.299	-0.066%	29.725	-0.427				80.00
80.00	29.395	0.500%	29.902	-0.507	R: 1150.000m L: 107.639m			100.00
100.00	29.485	0.500%	29.776	-0.283				120.00
120.00	29.595	0.500%	29.800	-0.205				140.00
140.00	29.695	0.500%	29.677	0.018				160.00
160.00	29.795	0.500%	29.636	0.159				180.00
180.00	29.895	0.500%	29.643	0.252				200.00
200.00	29.995	0.500%	29.640	0.355				220.00
220.00	30.095	0.500%	29.696	0.397				240.00
240.00	30.195	0.500%	29.786	0.397				260.00
260.00	30.303	0.500%	29.962	0.341				280.00
280.00	30.496	1.211%	30.315	0.180				300.00
300.00	30.788	1.461%	30.647	0.141				320.00
320.00	31.180	1.961%	31.044	0.136				340.00
340.00	31.672	2.211%	31.506	0.167				360.00
360.00	32.256	2.581%	32.046	0.207				380.00
380.00	32.857	3.005%	32.746	0.101				400.00
400.00	33.458	3.005%	33.323	0.135				420.00
420.00	34.059	3.005%	33.992	0.067				440.00
440.00	34.660	3.005%	34.658	0.072				460.00
460.00	35.261	3.005%	35.200	0.061				480.00
480.00	35.862	3.005%	35.825	0.037				500.00
500.00	36.463	3.005%	36.445	0.018				520.00
520.00	37.064	3.005%	37.065	0.009				540.00
540.00	37.665	3.005%	37.701	-0.035				560.00
560.00	38.266	3.005%	38.144	0.122				580.00
580.00	38.867	3.005%	38.609	0.059				600.00
600.00	39.386	2.859%	39.223	0.163				620.00
620.00	39.598	1.859%	39.922	0.006				640.00
640.00	39.563	-0.559%	39.576	0.006				660.00

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - WB DIVERGE
(SCALE H=1:2500, V=1:500)



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

Contractor: **COSTAIN** Designer: **Jacobs**
2nd Floor Coltons Centre, Coltons Lane
London SE1 2QS, 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
JUNCTION 25 SECTION 3
A12 J2 AND A12 J4/WB DIVERGE
SHEET 4 OF 7**

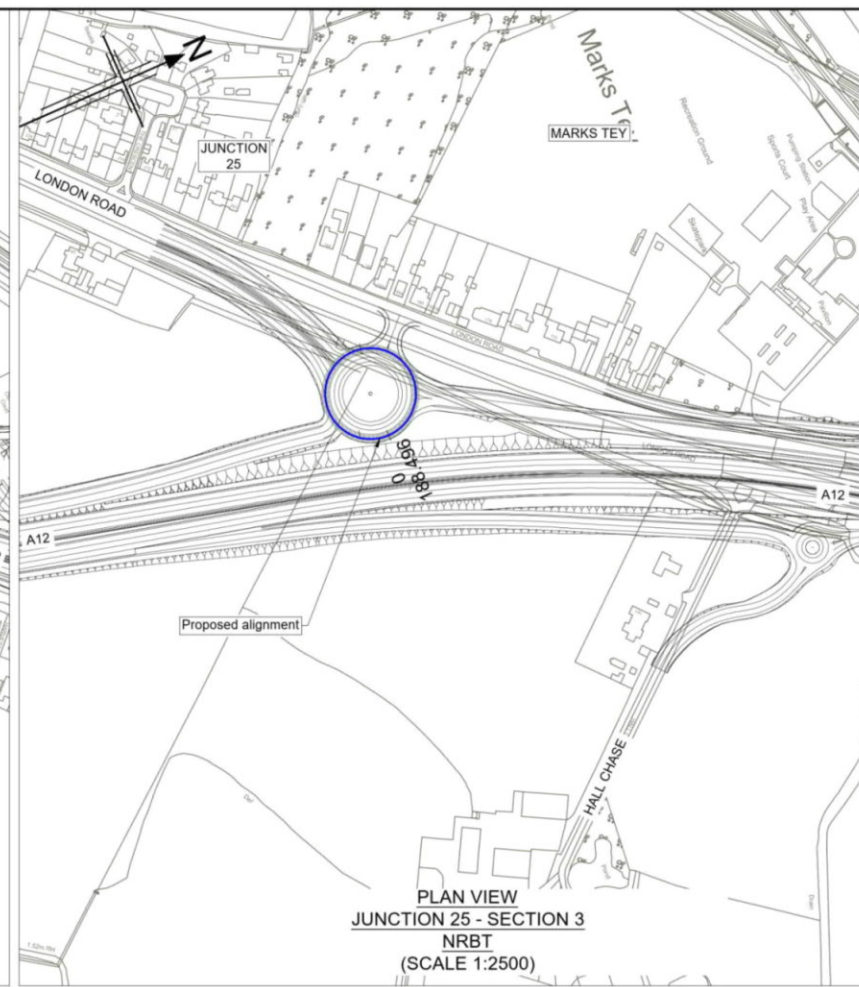
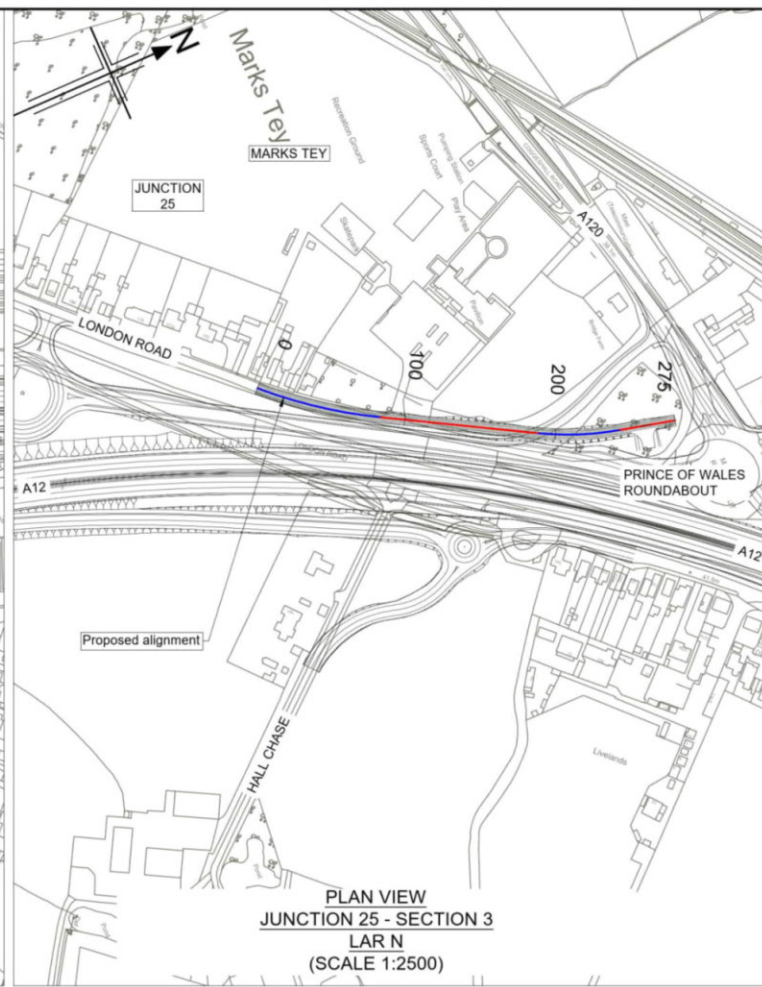
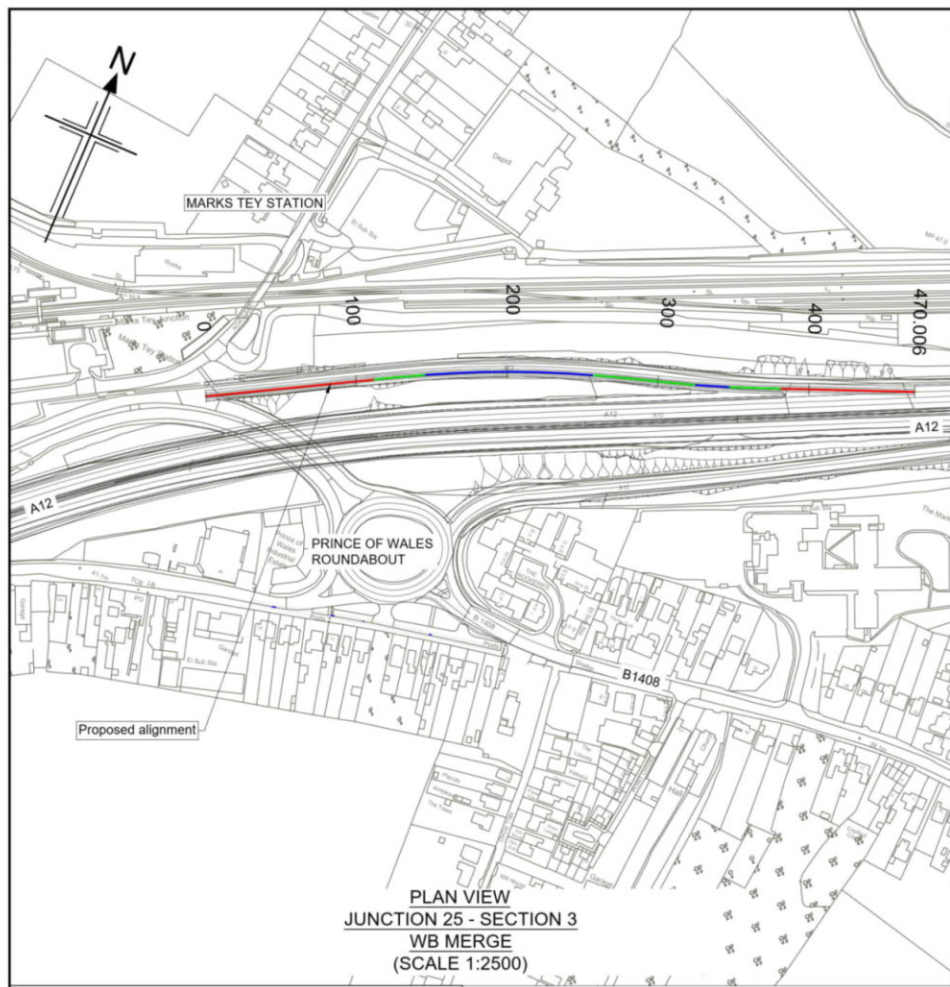
Drawing status: **S2 - SUITABLE FOR INFORMATION**

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

Drawing number: **HE551497 - JAC - HSR - S3 J25 - DR - C - 0004**

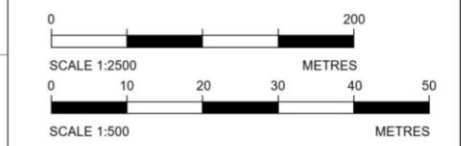
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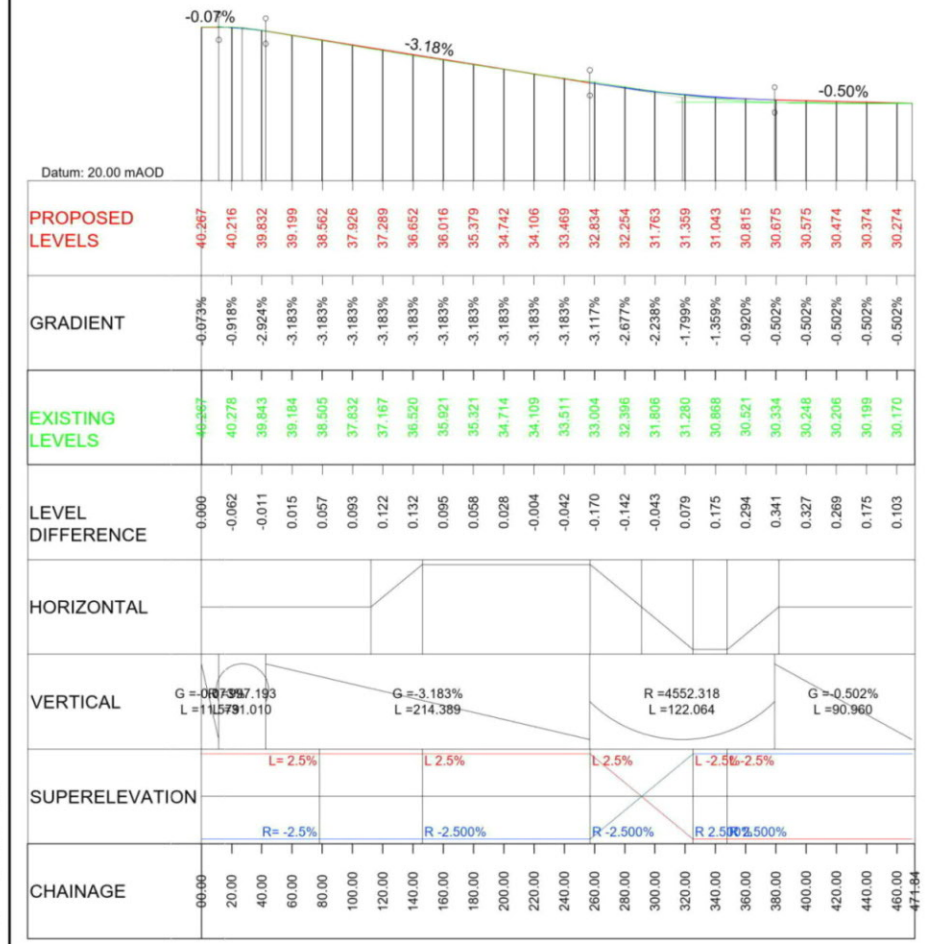


- Notes**
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 - All dimensions are in metres unless noted otherwise.
 - The base mapping is based on Ordnance Survey (O/S) Data.
 - Only written dimension shall be used.
 - For Sheet Layout Plan refer to:
HE551497-JAC-HGN-SCHW-DR-C-0028 for Mainline profiles.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

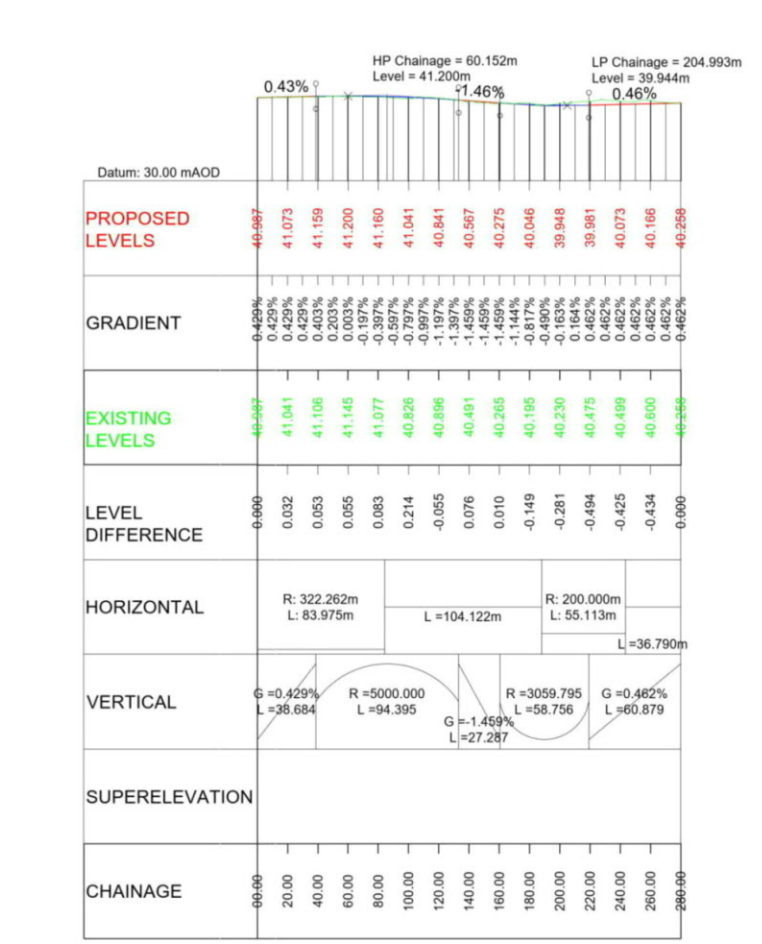
- Key**
- PLAN**
- Chainage
 - Curve alignment
 - Straight alignment
 - Transition alignment
- PROFILE**
- Existing ground
 - Proposed ground (constant gradient)
 - Proposed ground (vertical curve)



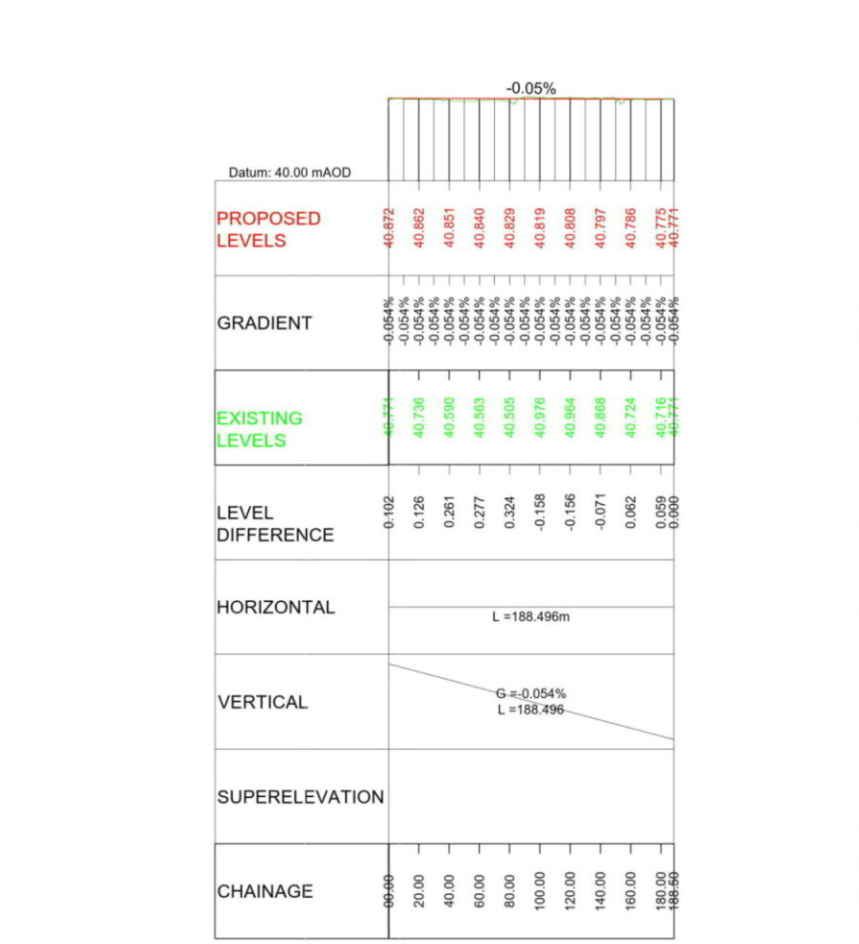
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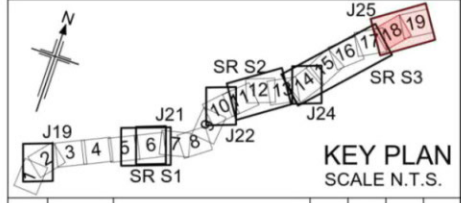
**LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - WB MERGE
(SCALE H=1:2500, V=1:500)**



**LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - LAR N
(SCALE H=1:2500, V=1:500)**



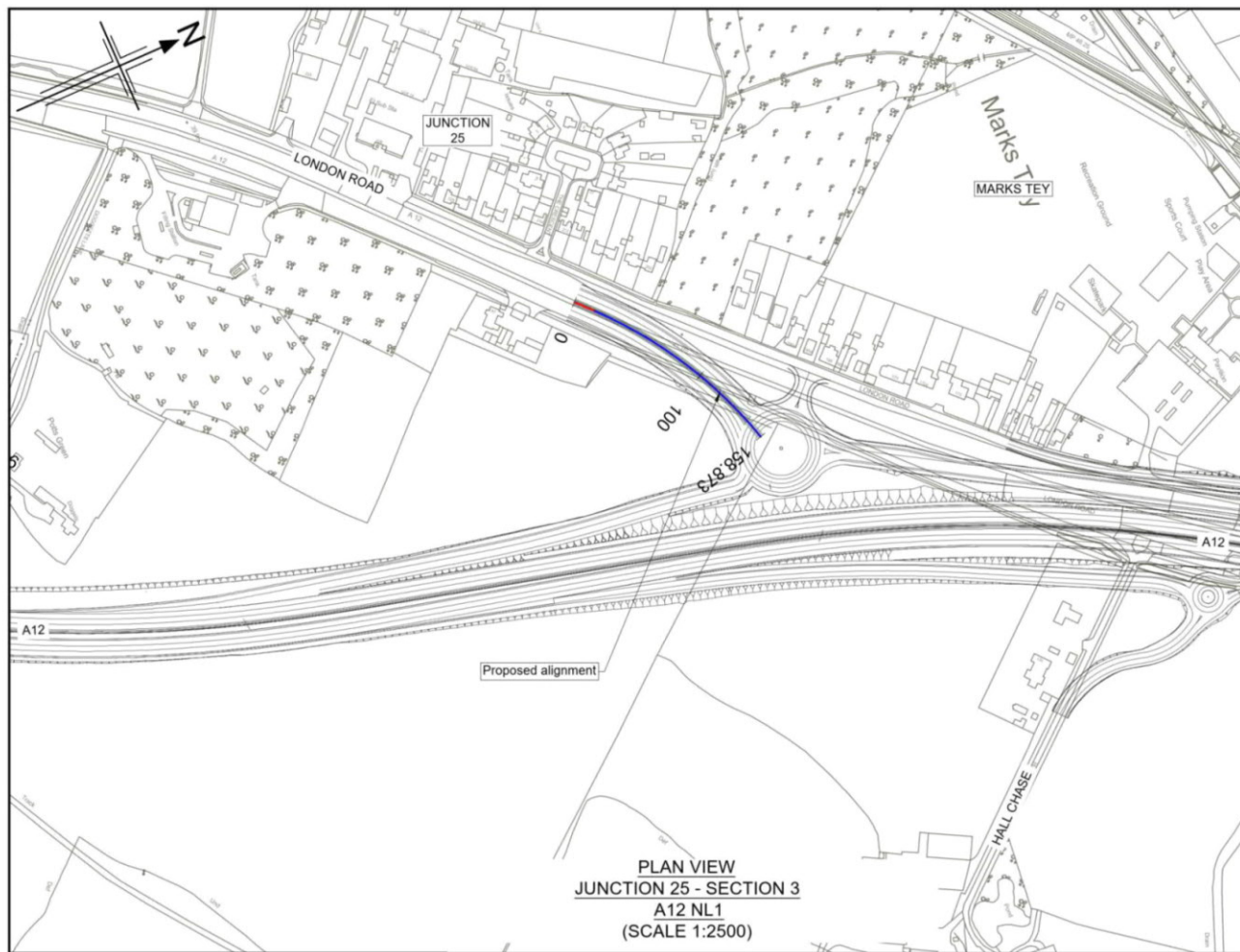
**LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - NRBT
(SCALE H=1:2500, V=1:500)**



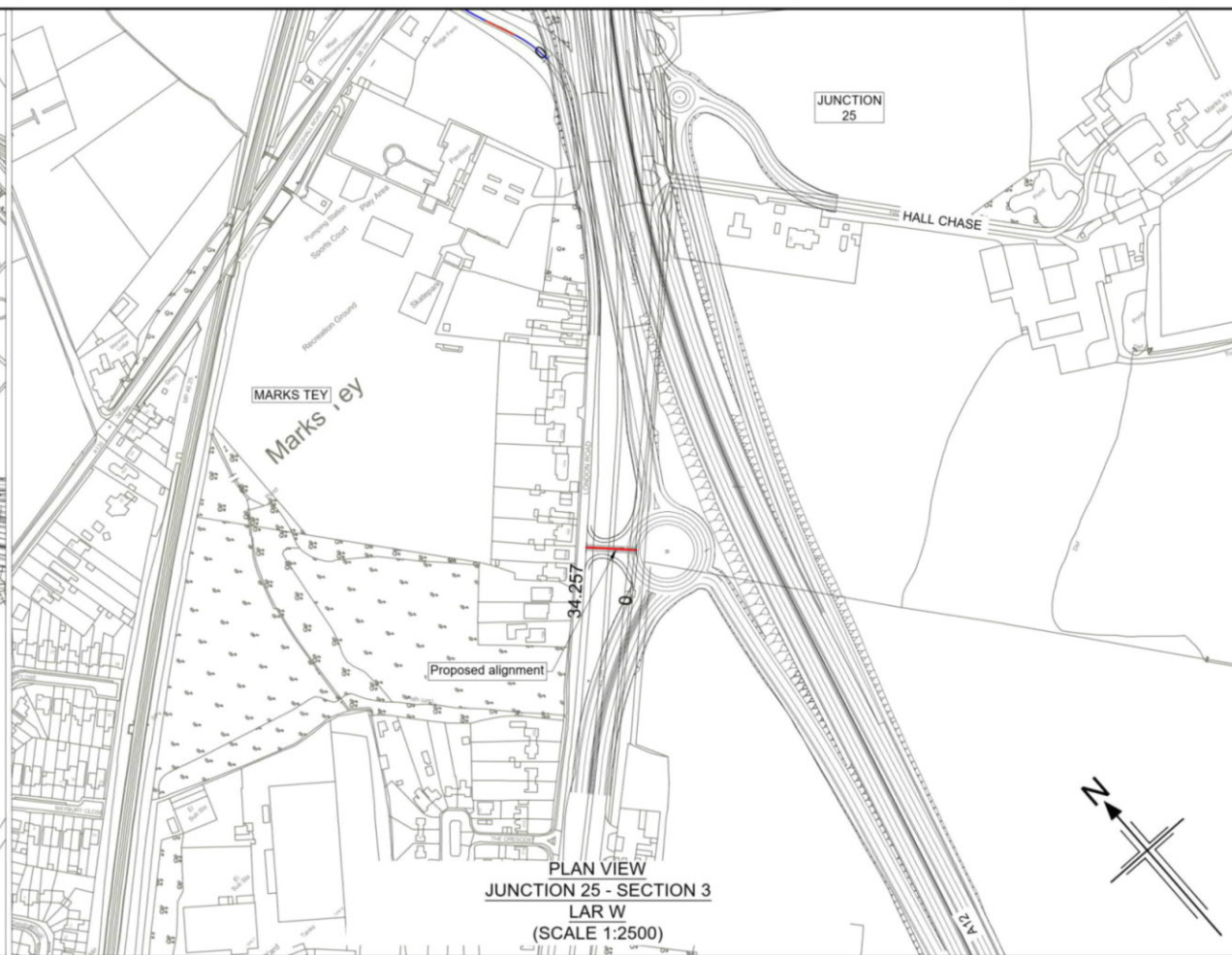
PO1	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
PO2	20/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Contractor:		Designer:				
COSTAIN		Jacobs 2nd Floor Colliers Centre, Colliers Lane London SE1 2QG. Tel: +44 (0)203 9802000 www.jacobs.com				
Client: highways england						
Project: REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title: PLAN AND PROFILE JUNCTION 25 SECTION 3 WB MERGE/LAR N/NRBT 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					
Drawing number	HE551497 - JAC - HSR - S3 J25 - DR - C -0005					
Rev	P02					
DO NOT SCALE						

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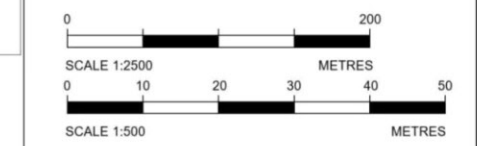
PLAN VIEW
JUNCTION 25 - SECTION 3
A12 NL1
(SCALE 1:2500)



PLAN VIEW
JUNCTION 25 - SECTION 3
LAR W
(SCALE 1:2500)

- Notes
- This drawing shall only be used for the design element stated in the drawing title.
 - All dimensions are in metres unless noted otherwise.
 - 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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Datum: 40.00 mAOD

HP Chainage = 29.840m
Level = 41.514m

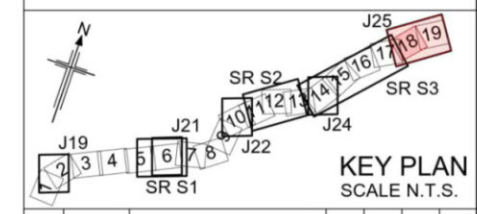
CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	41.465	0.120%	41.465	0.000	L = 14.359m	G = -0.120% L = 17.806	
20.00	41.509	0.098%	41.489	0.010			
40.00	41.509	-0.002%	41.464	0.044	R = 300.000m L = 144.513m	R = 10000.000 L = 105.659	
60.00	41.468	-0.102%	41.425	0.044			
80.00	41.398	-0.402%	41.290	0.108	G = -0.936% L = 35.408		
100.00	41.268	-0.702%	41.214	0.054			
120.00	41.107	-0.902%	41.184	-0.077			
140.00	40.921	-0.936%	40.381	0.539			
158.87	40.744	-0.936%	40.521	0.213			

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - A12 NL1
(SCALE H=1:2500, V=1:500)

Datum: 15.00 mAOD

CHAINAGE	PROPOSED LEVELS	GRADIENT	EXISTING LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	SUPERELEVATION
00.00	40.584	2.500%	40.646	-0.263	L = 34.257m	G = 2.500% L = 8.974	
20.00	41.017	2.385%	40.980	0.037			
34.26	41.150	0.886%	41.150	0.000		G = -0.886% L = 10.753 R = 900.000 L = 14.530	

LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - LAR W
(SCALE H=1:2500, V=1:500)



KEY PLAN
SCALE N.T.S.

P01	26/04/21	DESIGN FIX 2	SH	CA	RM	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**
2nd Floor Cottons Centre, Cottons Lane
London SE1 2QS. 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
JUNCTION 25 SECTION 3
A12 NL1/LAR W
SHEET 6 OF 7

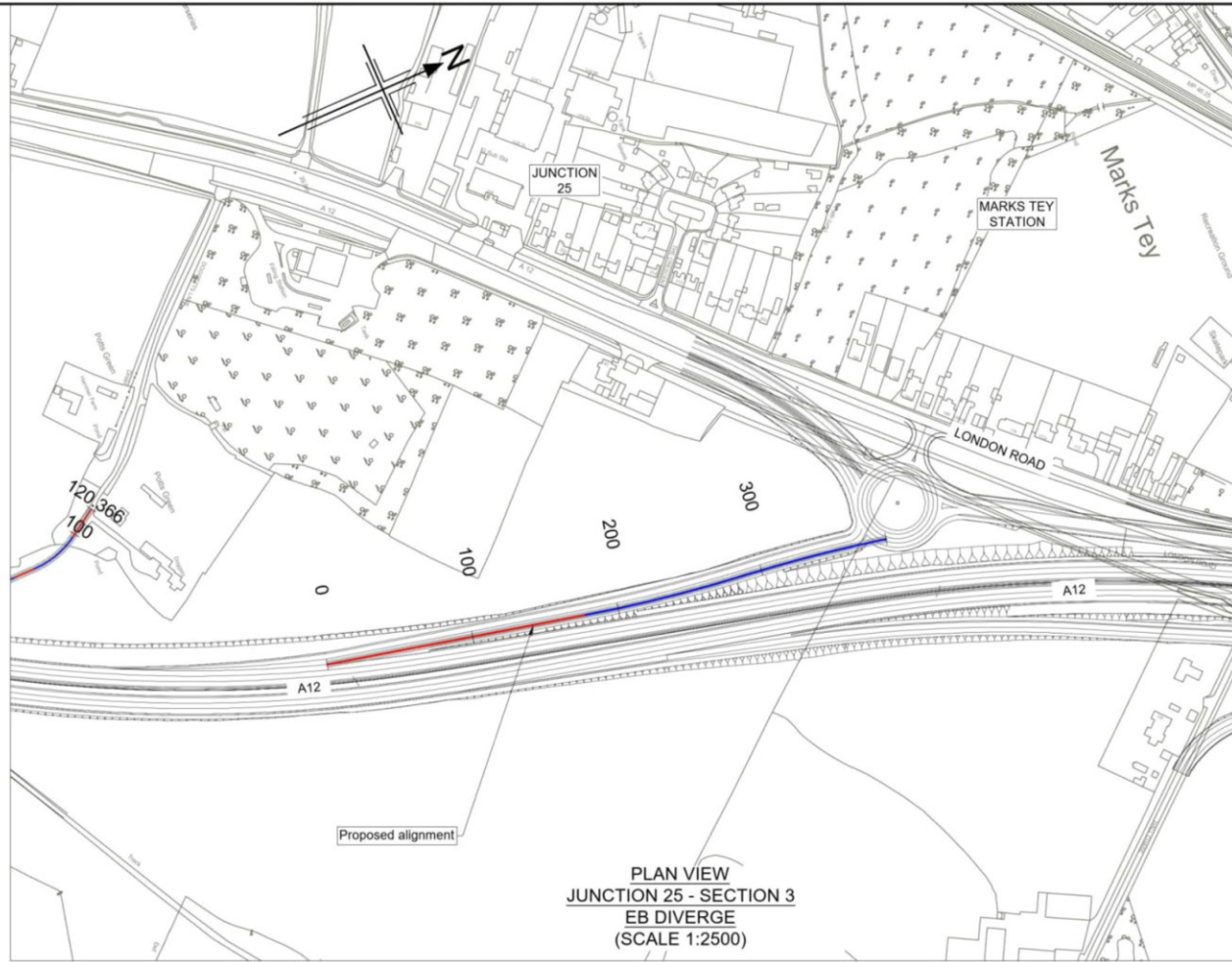
Drawing status: S2 - SUITABLE FOR INFORMATION

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

Drawing number	HE551497 - JAC - HSR - S3 J25	Originator	JAC	Volume	-DR- C -0006
Location		Type		Role	
Number					

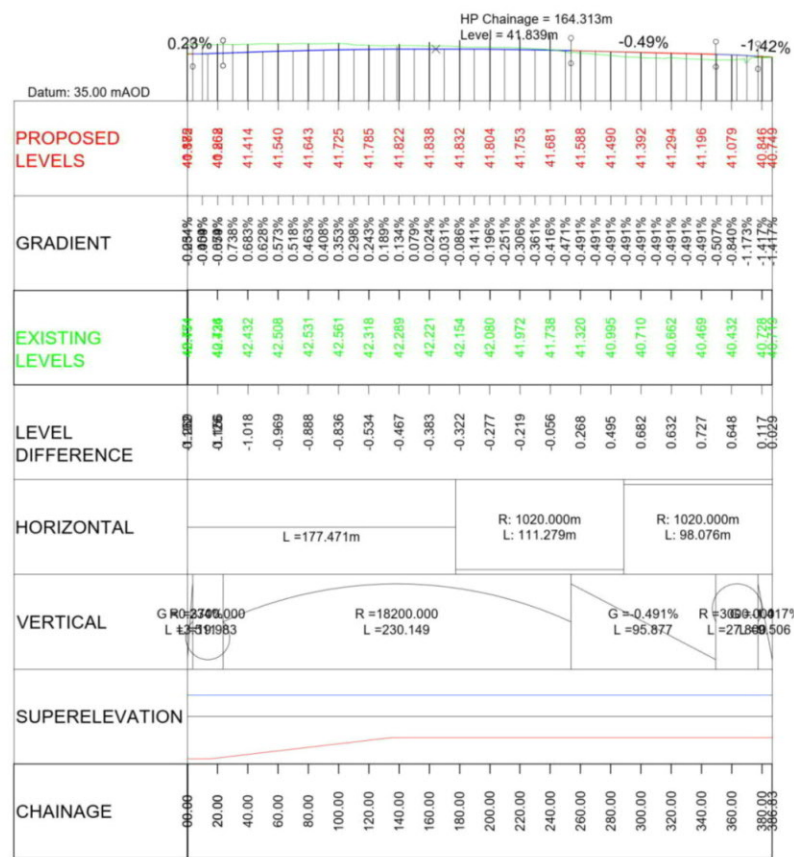
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PLAN VIEW
JUNCTION 25 - SECTION 3
EB DIVERGE
(SCALE 1:2500)

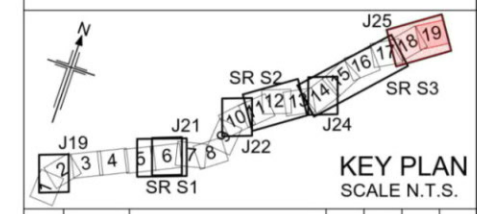
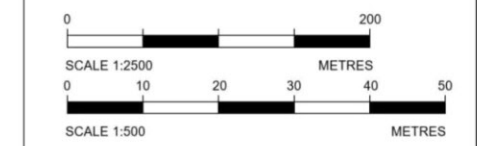
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LONGITUDINAL SECTION
JUNCTION 25 - SECTION 3 - EB DIVERGE
(SCALE H=1:2500, V=1:500)

- Notes
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 - All dimensions are in metres unless noted otherwise.
 - 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)



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

Contractor: **COSTAIN** Designer: **Jacobs**
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London SE1 2QS. 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
JUNCTION 25 SECTION 3
EB DIVERGE
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

Drawing number: HE551497 - JAC - HSR - S3_J25 - DR - C - 0007

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