

A12 Chelmsford to A120 widening scheme

TR010060

2.11 HIGHWAYS ENGINEERING SECTIONS DRAWINGS PART 1

APFP Regulation 5(2)(o), 5(2)(p) and 6(2)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

Volume 2

December 2023

Infrastructure Planning

Planning Act 2008

A12 Chelmsford to A120 widening scheme

Development Consent Order 202[]

HIGHWAYS ENGINEERING SECTIONS DRAWINGS PART 1

Regulation Number:	Regulation 5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010060
Application Document Reference	TR010060/APP/2.11
Author:	A12 Project Team, National Highways

Version	Date	Status of Version
P03	December 2023	Updates to cover sheet

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1 Introduction

1.1 General

- 1.1.1 National Highways (the Applicant) has submitted an application under section 37 of the Planning Act 2008 (the “2008 Act”) to the Secretary of State for Transport via the Planning Inspectorate (the Inspectorate) for an order to grant development consent for the A12 Chelmsford to A120 widening scheme (the proposed scheme).
- 1.1.2 The Highways Engineering Sections Drawings (‘these Drawings’) have been prepared to accompany the application for a Development Consent Order (DCO), made by the Applicant to the Secretary of State for Transport via the Planning Inspectorate.
- 1.1.3 The proposed scheme comprises improvements to the A12 between junction 19 (Boreham interchange) and junction 25 (Marks Tey interchange), a distance of approximately 24km, or 15 miles. The proposed scheme involves widening the A12 to three lanes throughout (where it is not already three lanes) with a bypass between junctions 22 and 23 and a second bypass between junctions 24 and 25. It also includes safety improvements, including closing off existing private and local direct accesses onto the main carriageway, and providing alternative provision for walkers, cyclists and horse riders (WCH) to existing routes along the A12, which would be removed. A detailed description of the proposed scheme can be found in Chapter 2 of the Environmental Statement [TR010060/APP/6.1].
- 1.1.4 These Drawings comprise part of the DCO application documentation and are included in compliance with Regulation 5(2)(o), 5(2)(p), 6(2)(a) and 6(2)(b) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the 2009 Regulations), which requires:
- ‘5(2)(o) any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping.’*
- ‘5(2)(p) any of the documents prescribed by Regulation 6 which are relevant to the particular project.’*
- ‘6(2) If the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales which show, by reference to Ordnance Survey or Chart datum-*
- (a) the levels of the proposed works, including in particular and where relevant*
- (i) ground levels;*

(ii) the height of every proposed bridge, viaduct, aqueduct, embankment, and elevated guideway;

(iii) the depth of every proposed cutting and tunnel;

(iv) the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;

(v) the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal waters or an inland waterway; and

(vi) drainage outfall details for highways;

(b) a cross section of every intended tunnel and any altered gradient of a carriageway or a way forming part of a guided transport system on either side of every level crossing, bridge, tunnel or underpass which would carry the carriageway or way or through which it would pass.'

1.1.5 These Drawings are also being submitted under Regulation 5(4) of the 2009 Regulations which states:

'Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets.'

1.1.6 As these Drawings are part of the DCO application documentation, they should be read alongside (and are informed by) the other Application Documents, in particular, the draft DCO [TR010060/APP/3.1], the Works Plans [TR010060/APP/2.2] and the General Arrangement Plans [TR010060/APP/2.10].

2 Schedule of Drawings included in this Application Document

Drawing number	Drawing title	Revision
PART 1		
HE551497-JAC-LDC-SCHW-DR-C-2000	Engineering Sections (Plan and Profiles) Mainline Key Plan	P02
HE551497-JAC-LDC-SCHW-DR-C-2001	Engineering Sections (Plan and Profiles) Mainline Sheet 1 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2002	Engineering Sections (Plan and Profiles) Mainline Sheet 2 of 19	P02
HE551497-JAC-LDC-SCHW-DR-C-2003	Engineering Sections (Plan and Profiles) Mainline Sheet 3 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2004	Engineering Sections (Plan and Profiles) Mainline Sheet 4 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2005	Engineering Sections (Plan and Profiles) Mainline Sheet 5 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2006	Engineering Sections (Plan and Profiles) Mainline Sheet 6 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2007	Engineering Sections (Plan and Profiles) Mainline Sheet 7 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2008	Engineering Sections (Plan and Profiles) Mainline Sheet 8 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2009	Engineering Sections (Plan and Profiles) Mainline Sheet 9 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2010	Engineering Sections (Plan and Profiles) Mainline Sheet 10 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2011	Engineering Sections (Plan and Profiles) Mainline Sheet 11 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2012	Engineering Sections (Plan and Profiles) Mainline Sheet 12 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2013	Engineering Sections (Plan and Profiles) Mainline Sheet 13 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2014	Engineering Sections (Plan and Profiles) Mainline Sheet 14 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2015	Engineering Sections (Plan and Profiles) Mainline Sheet 15 of 19	P01

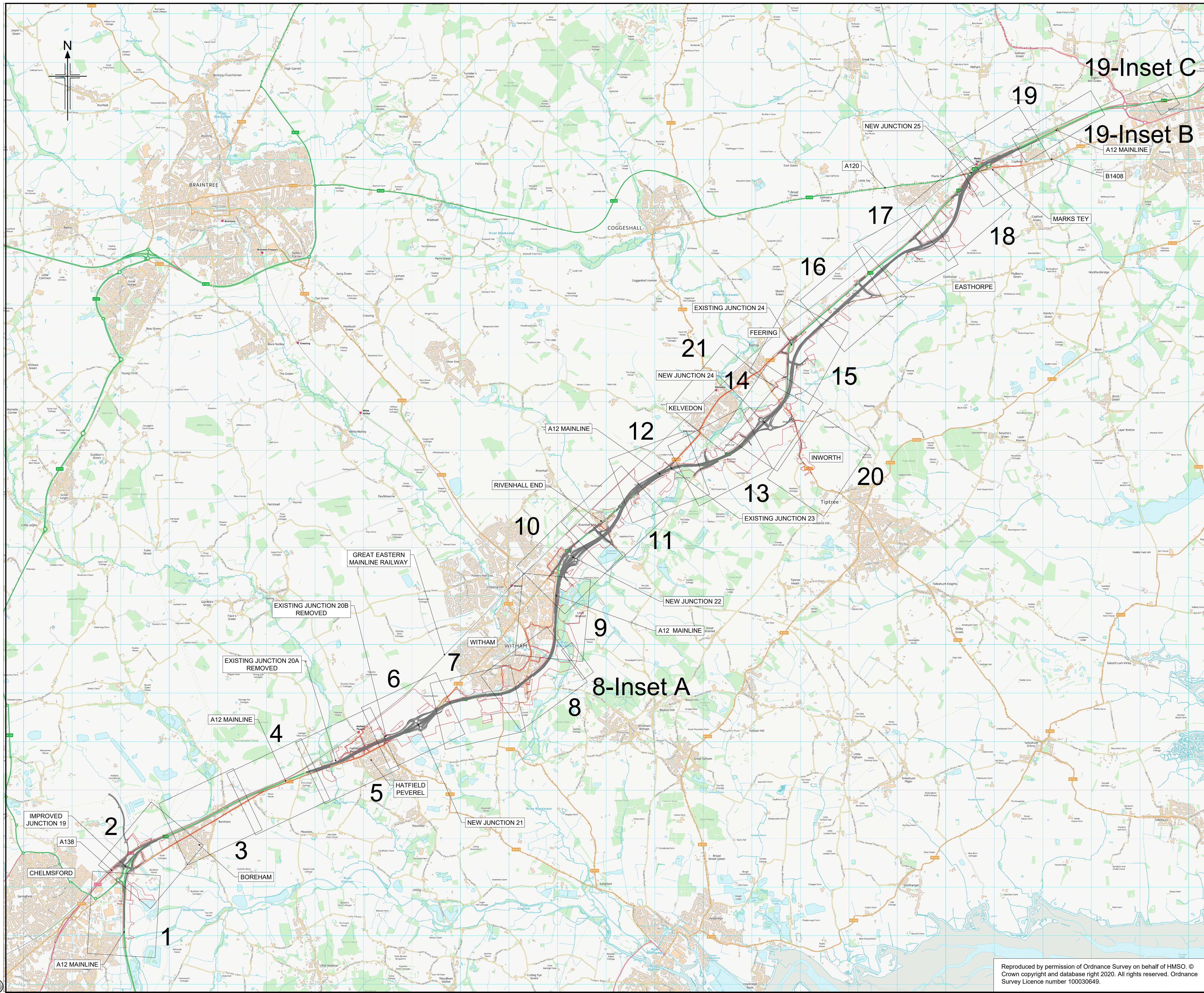
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HE551497-JAC-LDC-SCHW-DR-C-2016	Engineering Sections (Plan and Profiles) Mainline Sheet 16 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2017	Engineering Sections (Plan and Profiles) Mainline Sheet 17 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2018	Engineering Sections (Plan and Profiles) Mainline Sheet 18 of 19	P02
HE551497-JAC-LDC-SCHW-DR-C-2019	Engineering Sections (Plan and Profiles) Mainline Sheet 19 of 19	P02
PART 2		
HE551497-JAC-LDC-SCHW-DR-C-2020	Engineering Sections (Plan and Profiles) Junctions Key Plan	P02
HE551497-JAC-LDC-S1_J19-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 19 Sheet 1 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 19 Sheet 2 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 19 Sheet 3 of 5	P03
HE551497-JAC-LDC-S1_J19-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 19 Sheet 4 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 19 Sheet 5 of 5	P02
HE551497-JAC-LDC-S1_J21-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 21 Sheet 1 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 21 Sheet 2 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 21 Sheet 3 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 21 Sheet 4 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 21 Sheet 5 of 5	P01
HE551497-JAC-LDC-S2_J22-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 22 Sheet 1 of 4	P01
HE551497-JAC-LDC-S2_J22-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 22 Sheet 2 of 4	P01
HE551497-JAC-LDC-S2_J22-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 22 Sheet 3 of 4	P01

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-S2_J22-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 22 Sheet 4 of 4	P01
HE551497-JAC-LDC-S3_J24-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 24 Sheet 1 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 24 Sheet 2 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 24 Sheet 3 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 24 Sheet 4 of 5	P01
HE551497-JAC-LDC-S3_J24-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 24 Sheet 5 of 5	P01
HE551497-JAC-LDC-S3_J25-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 25 Sheet 1 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 25 Sheet 2 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 25 Sheet 3 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 25 Sheet 4 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0106	Engineering Sections (Plan and Profiles) Junction 25 Sheet 5 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0107	Engineering Sections (Plan and Profiles) Junction 25 Sheet 6 of 6	P01
PART 3		
HE551497-JAC-LDC-SCHW-DR-C-2021	Engineering Sections (Plan and Profiles) Side Roads Key Plan	P02
HE551497-JAC-LDC-S1_SR-DR-C-0101	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 1 of 3	P01
HE551497-JAC-LDC-S1_SR-DR-C-0102	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 2 of 3	P01
HE551497-JAC-LDC-S1_SR-DR-C-0103	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 3 of 3	P01
HE551497-JAC-LDC-S2_SR-DR-C-0101	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 1 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0102	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 2 of 7	P01

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-S2_SR-DR-C-0103	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 3 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0104	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 4 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0105	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 5 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0106	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 6 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0107	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 7 of 7	P01
HE551497-JAC-LDC-S3_SR-DR-C-0301	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 1 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0303	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 2 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0304	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 3 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0305	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 4 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0306	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 5 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0307	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 6 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0308	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 7 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0309	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 8 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0310	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 9 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0311	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 10 of 10	P03

Drawing number	Drawing title	Revision
PART 4		
HE551497-JAC-LDC-SCHW-DR-C-2031	Engineering Sections (Cross Sections) Sheet 1 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2032	Engineering Sections (Cross Sections) Sheet 2 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2033	Engineering Sections (Cross Sections) Sheet 3 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2034	Engineering Sections (Cross Sections) Sheet 4 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2035	Engineering Sections (Cross Sections) Sheet 5 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2036	Engineering Sections (Cross Sections) Sheet 6 of 6	P03

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NOTES

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER PLAN APPLICATION DOCUMENTS, IN PARTICULAR, SCHEDULE 3 OF THE DEVELOPMENT CONSENT ORDER.

Legend

ORDER LIMITS

P01	28/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	12/05/23	DCO CHANGE	AE	LH	RM	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

Project

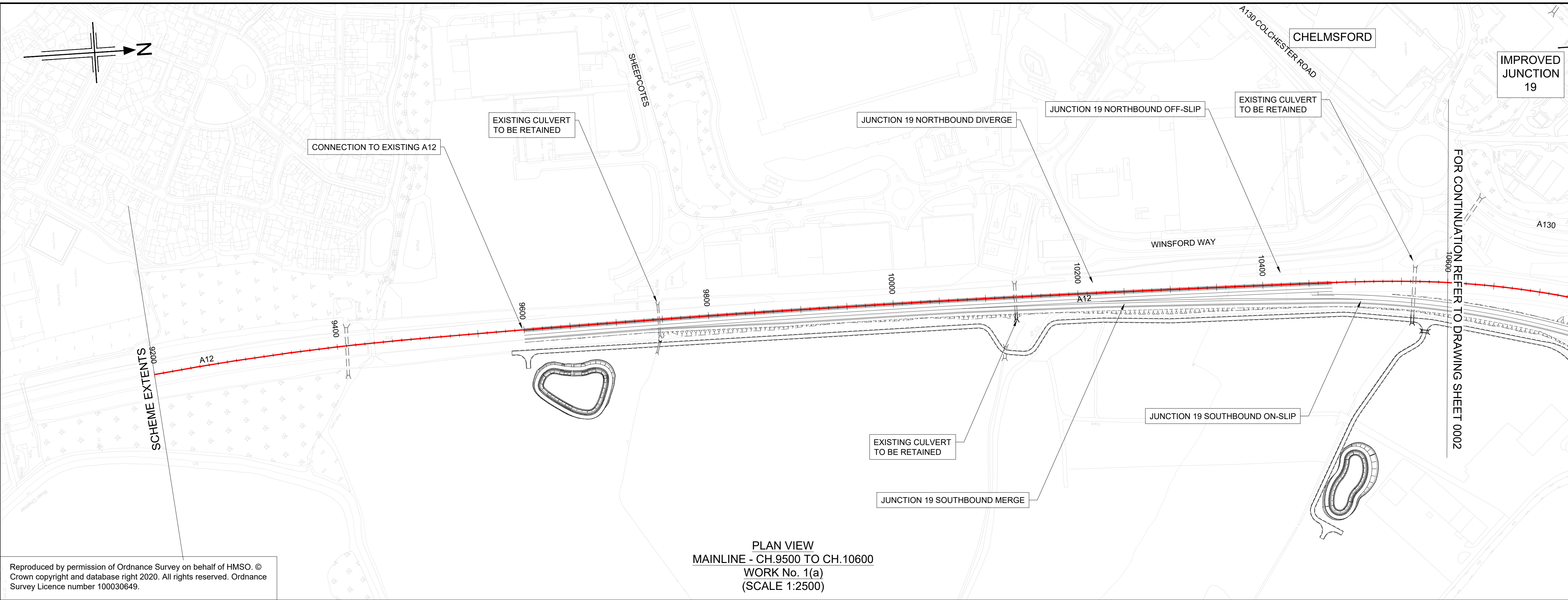
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENGINEERING SECTIONS
PLAN AND PROFILES
MAINLINE - KEY PLAN

Regulation	REGULATION 8(1)(k)	
Purpose of issue	DCO EXAM	
State Code	Statutory Procedures and Powers	
Project Stage	PCF 4	Drawing status
Scale at A1 (841x594mm)	NTS	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P02
Drawing number	PIN	Originator
HE551497 - JAC - LDC -		
SCHW -DR- C -2000		

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- FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

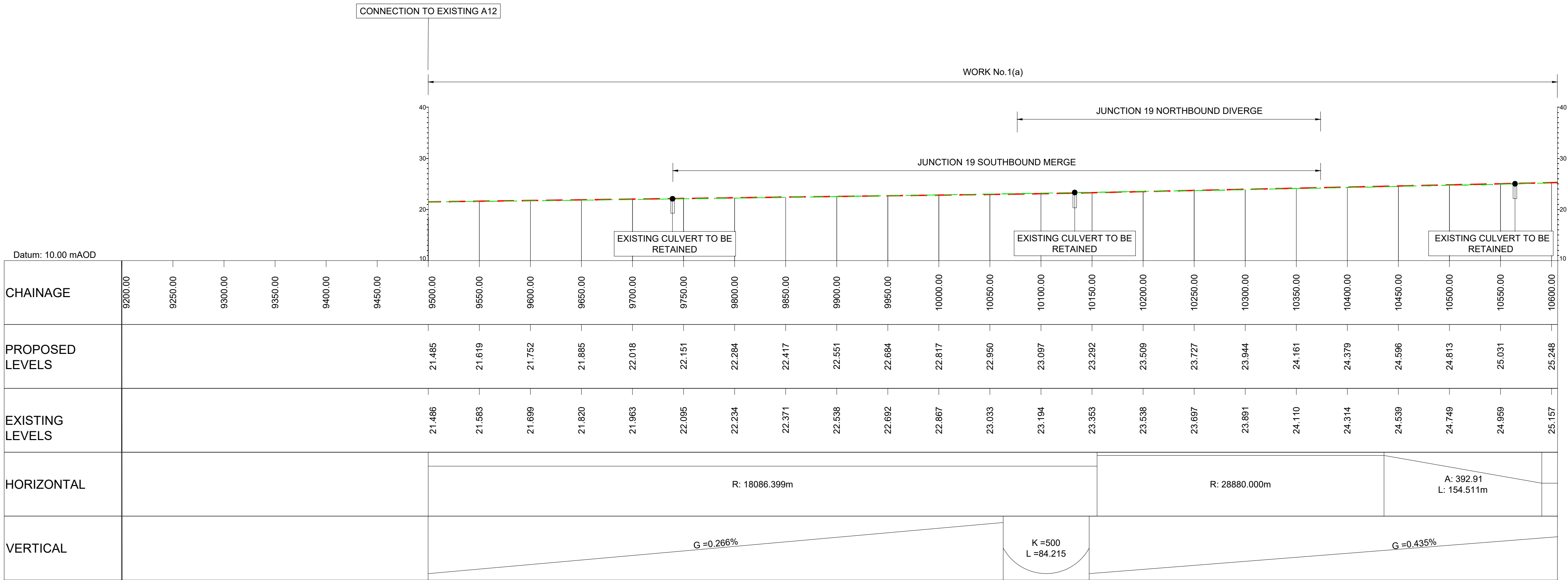
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SCALE 1:2500

0 10 20 30 40 50

SCALE 1:500

METRES



KEY PLAN
SCALE N.T.S.

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P01	28/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

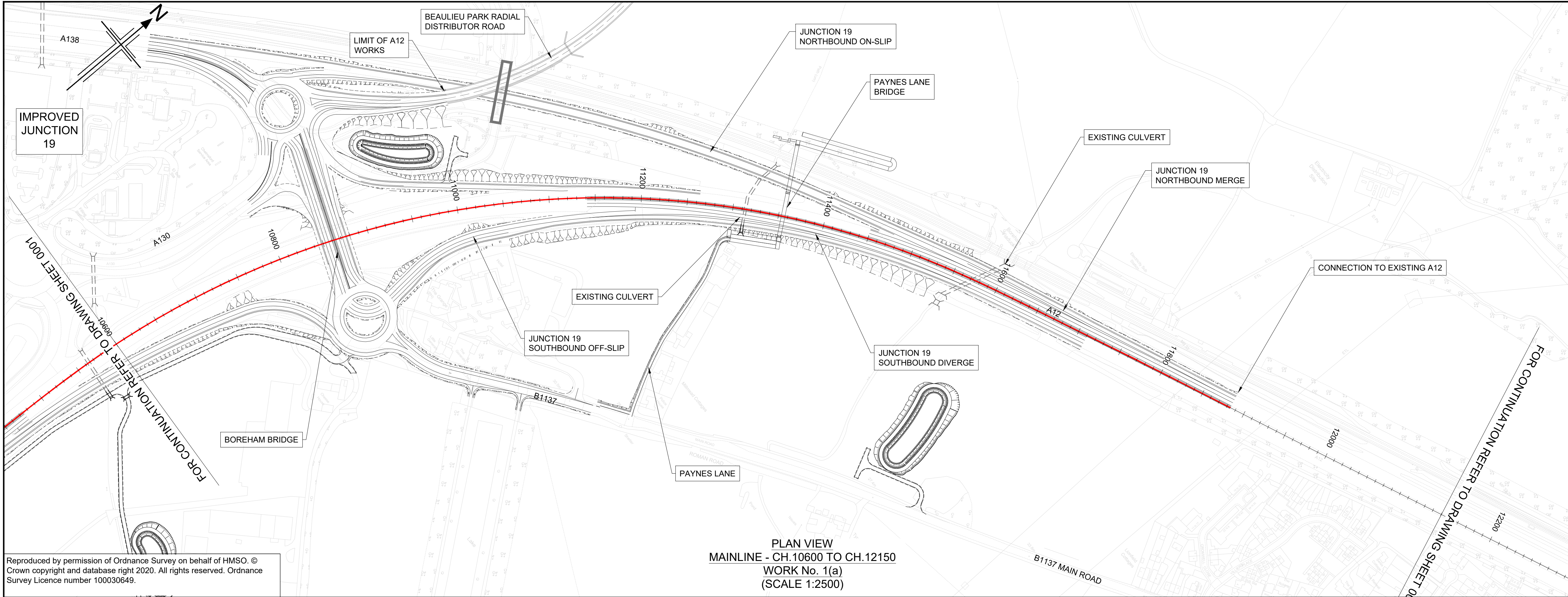
Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 1 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)				
Purpose of issue	DCO APPLICATION				
State Code	Preliminary				
Project Stage	PCF3			Drawing status	
Scale at A1 (841x594mm)	AS SHOWN			S4	
Jacobs No.	B36601D1			Rev	
Client no.	HE551497			P01	
Drawing number	HE551497 - JAC - LDC - SCHW - DR - C -2001				
PIN	Originator		Volume		
Location	Type		Role		
	Number				

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NOTES

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- FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

9600

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

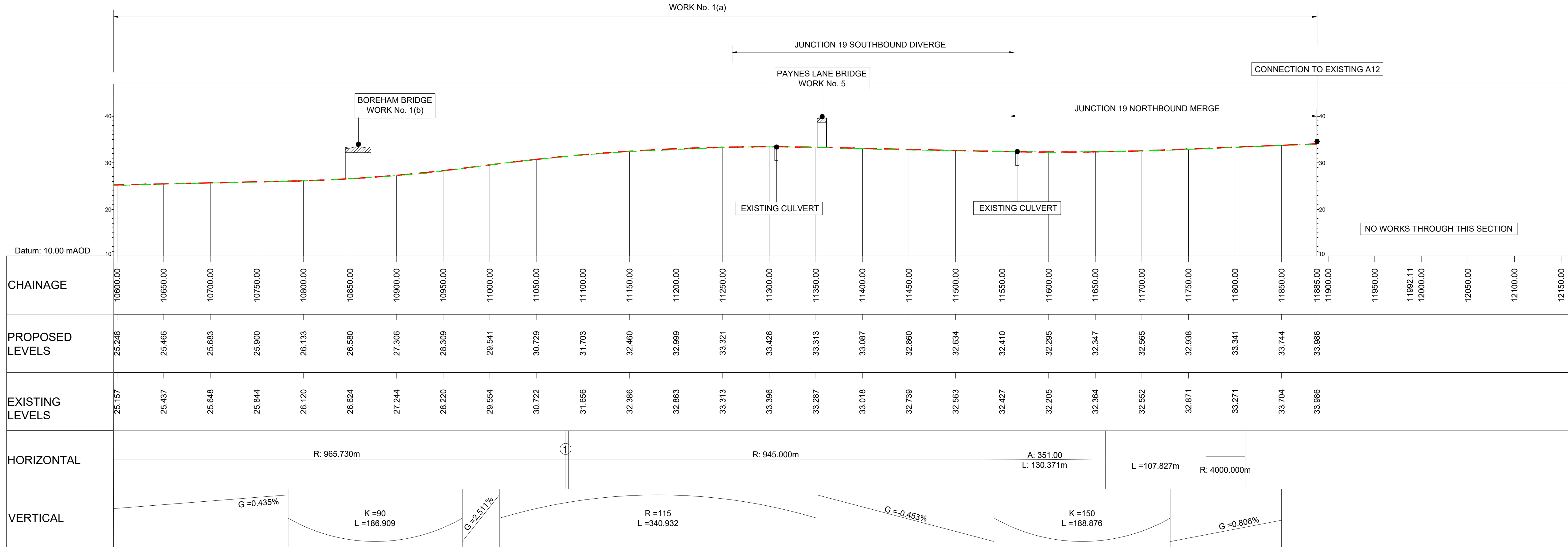
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



① A: 351.00; L: 2.799m

LONGITUDINAL SECTION
MAINLINE - CH.10600 TO CH.12150
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	22/05/23	DCO CHANGE	AE	LH	RM	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client: **national highways**

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 2 OF 19**

Regulation	REGULATION 8(1)(k)
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: PIN

Originator: JAC

Volume: LDC-

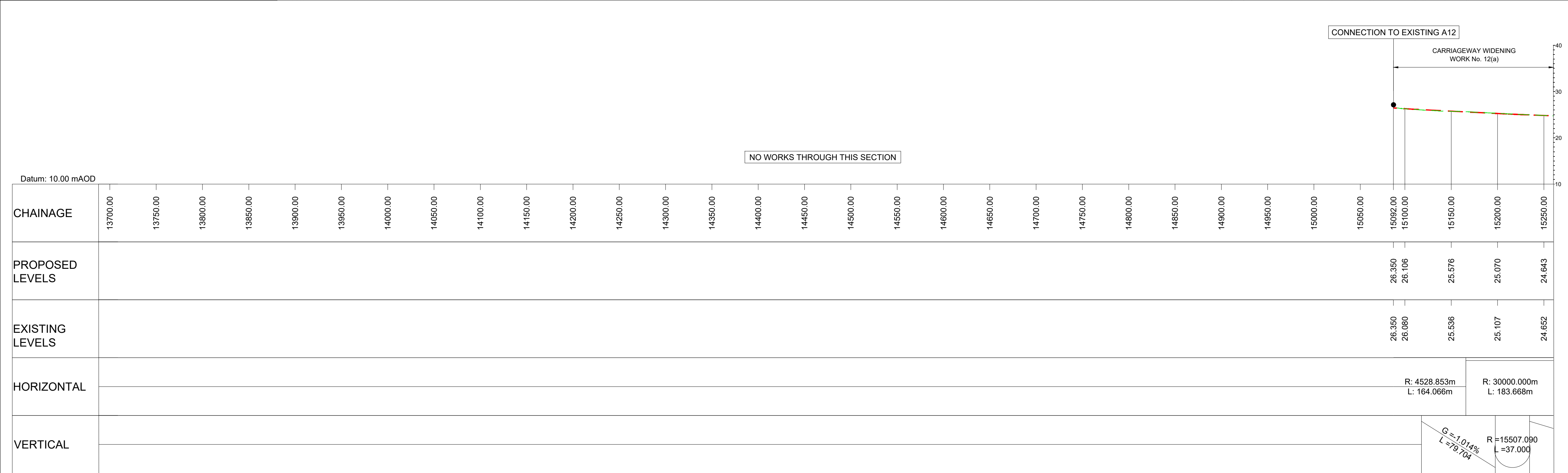
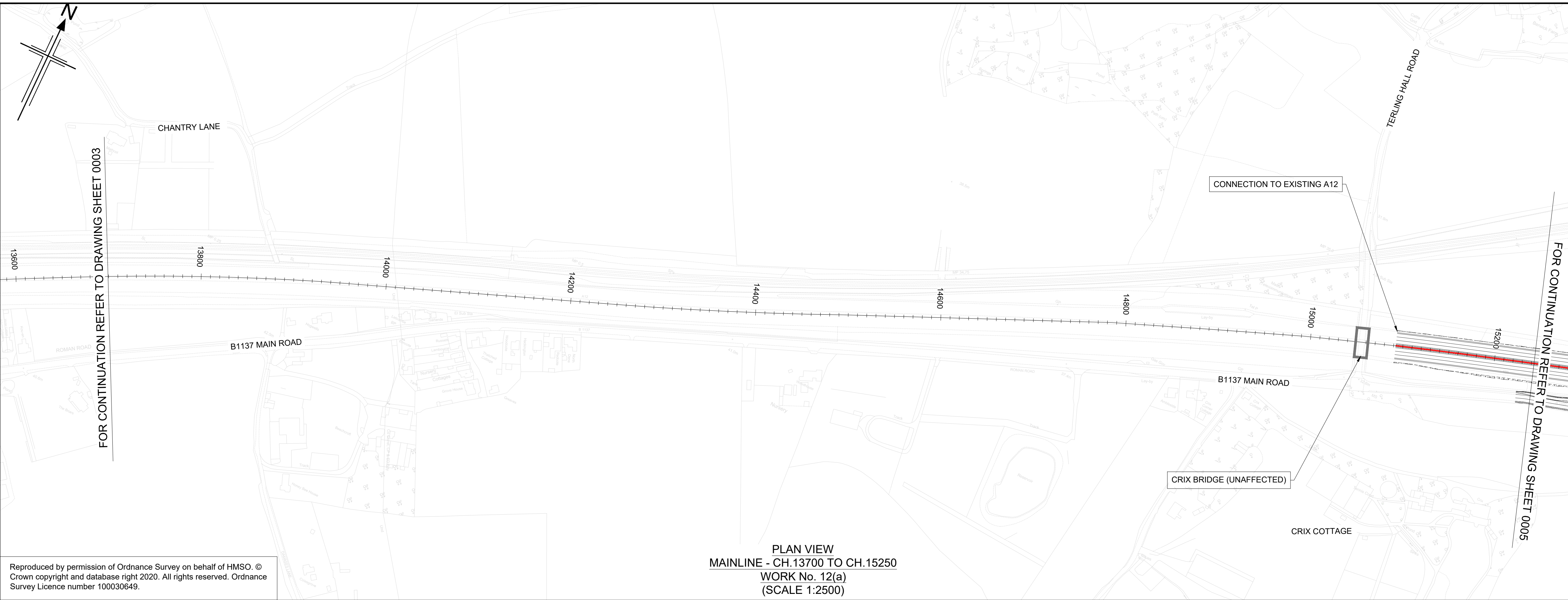
Location: SCHW

Type: -DR-

Role: C

Number: 2002

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HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 4 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number

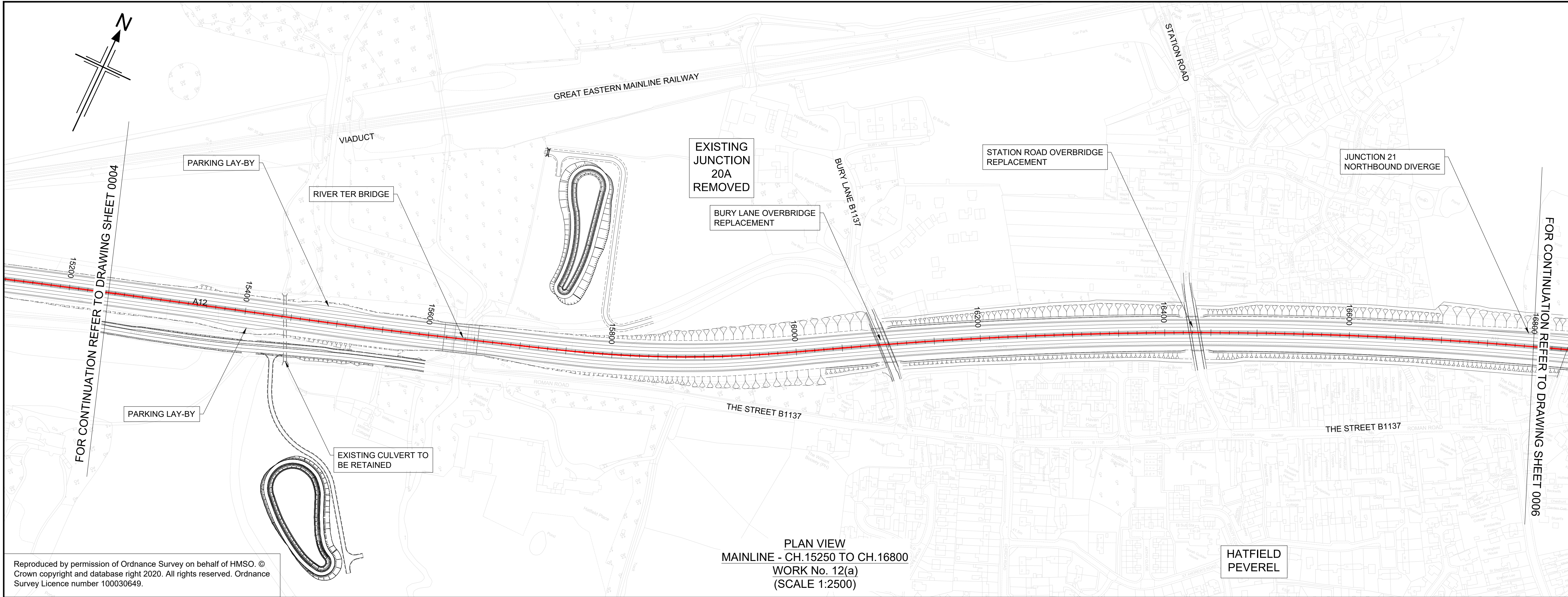
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Originator

Volume

HE551497 - JAC - LDC - SCHW -DR- C -2004

C:\pwworking\jacobs_uk_highways_ss4\elnourad\0155545\HE551497-JAC-LDC-SCHW-DR-C-2005.dwg - 01/09/2022 10:11:19 - A1 Frame - ElnourA



NOTES

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- FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

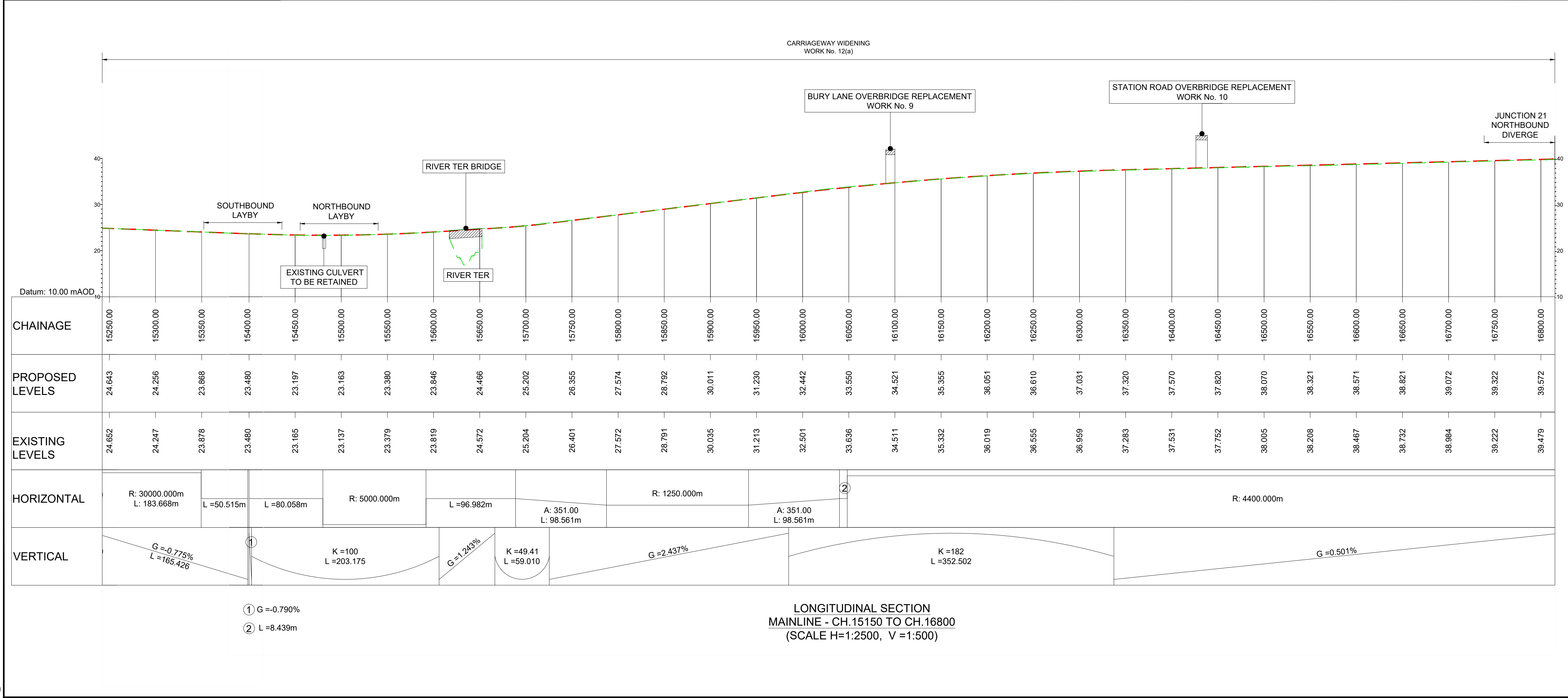
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 5 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number PIN

HE551497 - JAC - LDC - SCHW

Originator

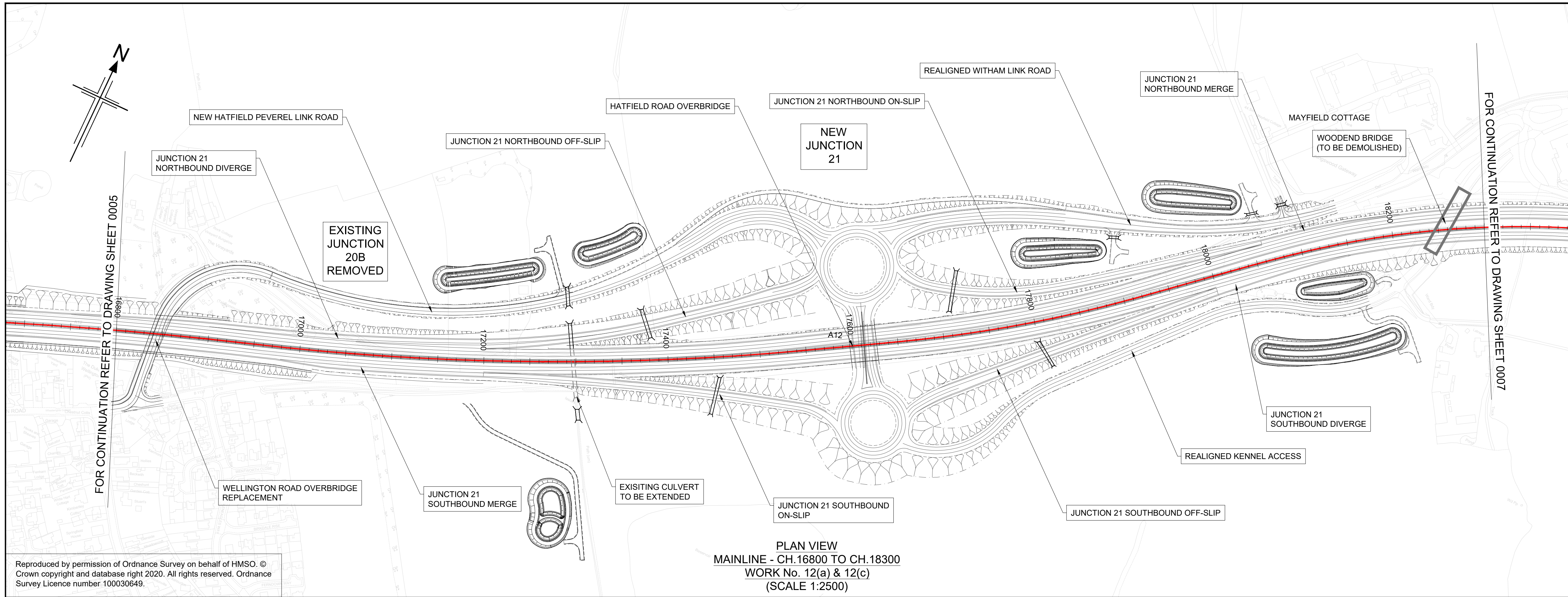
Volume

Location

Type | Role | Number

-DR- C -2005

C:\pwworking\jacobs_uk_highways_ss4\elnour\ad0155545\HE551497-JAC-LDC-SCHW-DR-C-2006.dwg - 01/09/2022 10:16:03 - A1 Frame - ElnourA



NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

9600

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

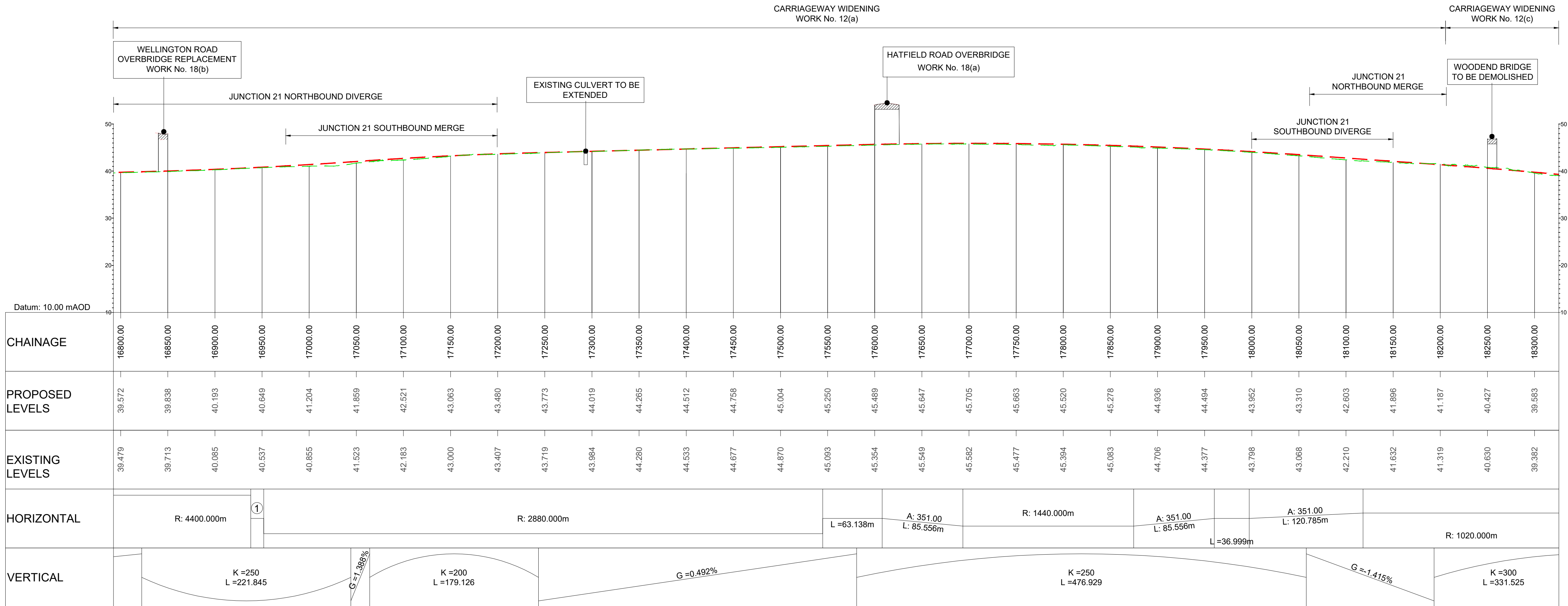
SCALE 1:2500

METRES

0 10 20 30 40 50

SCALE 1:500

METRES



KEY PLAN

SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

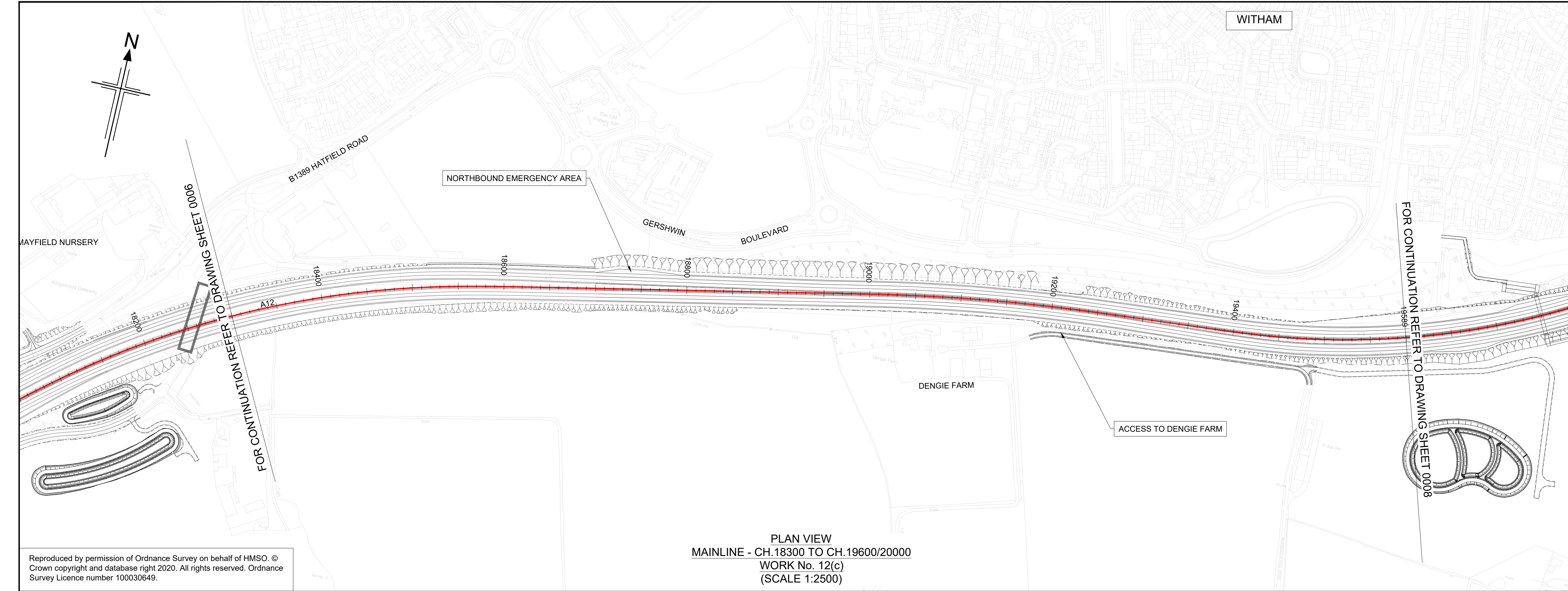
Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 6 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC-
Location	SCHW
Type	-DR-
Role	C
Number	2006



NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 7 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number

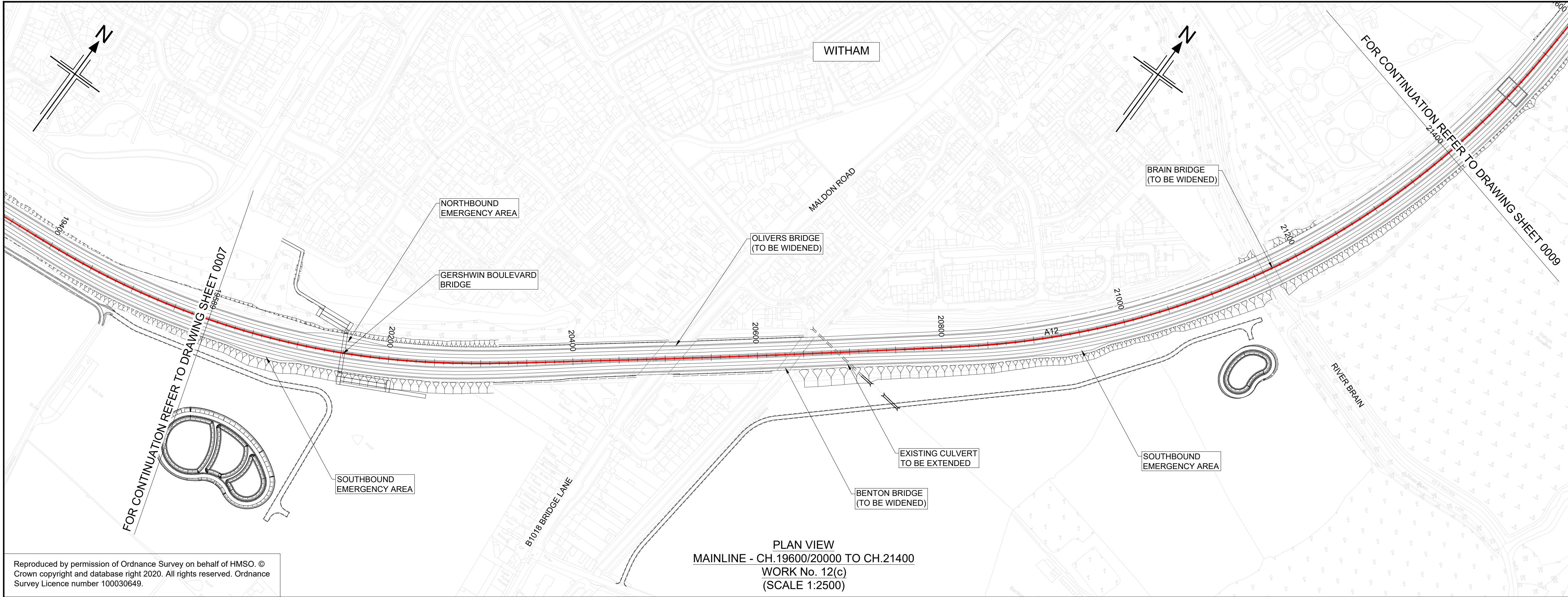
PIN

Originator

Volume

HE551497 - JAC - LDC - SCHW -DR- C -2007

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NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

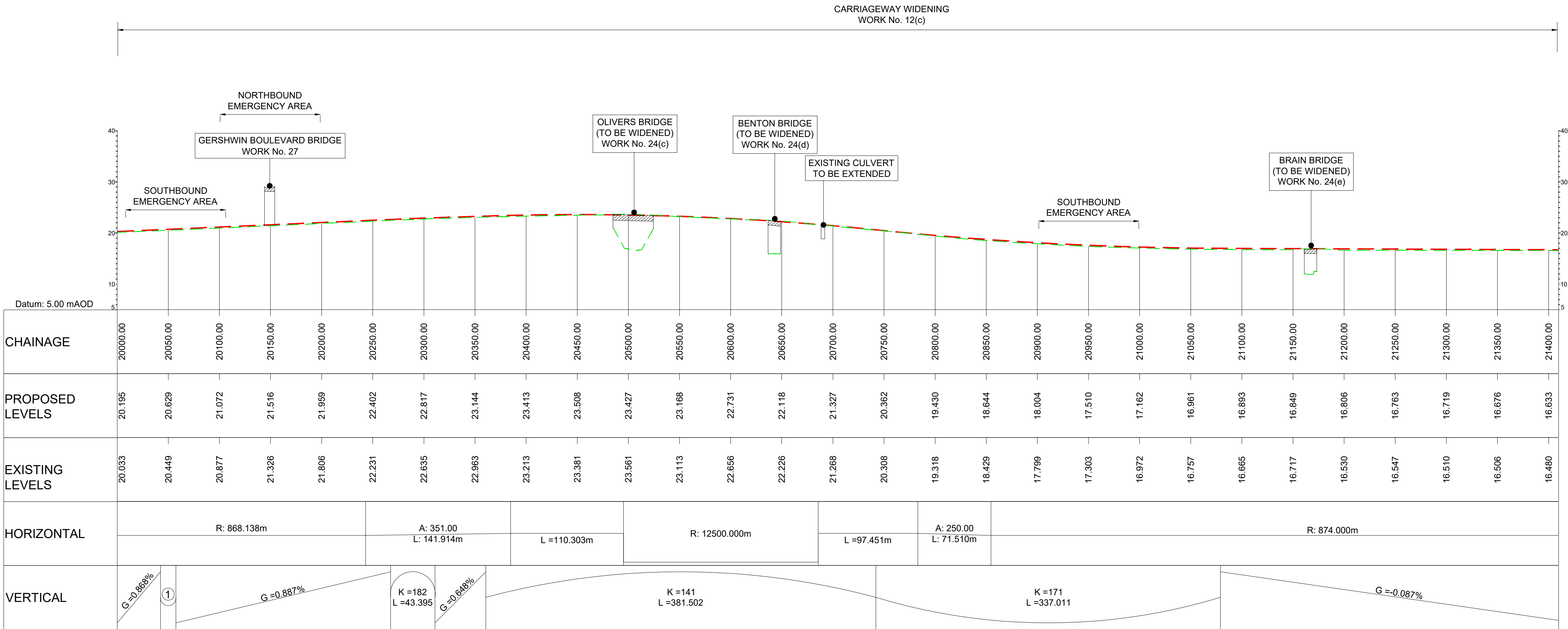
PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES



LONGITUDINAL SECTION
MAINLINE - CH.19600/20000 TO CH.21400
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

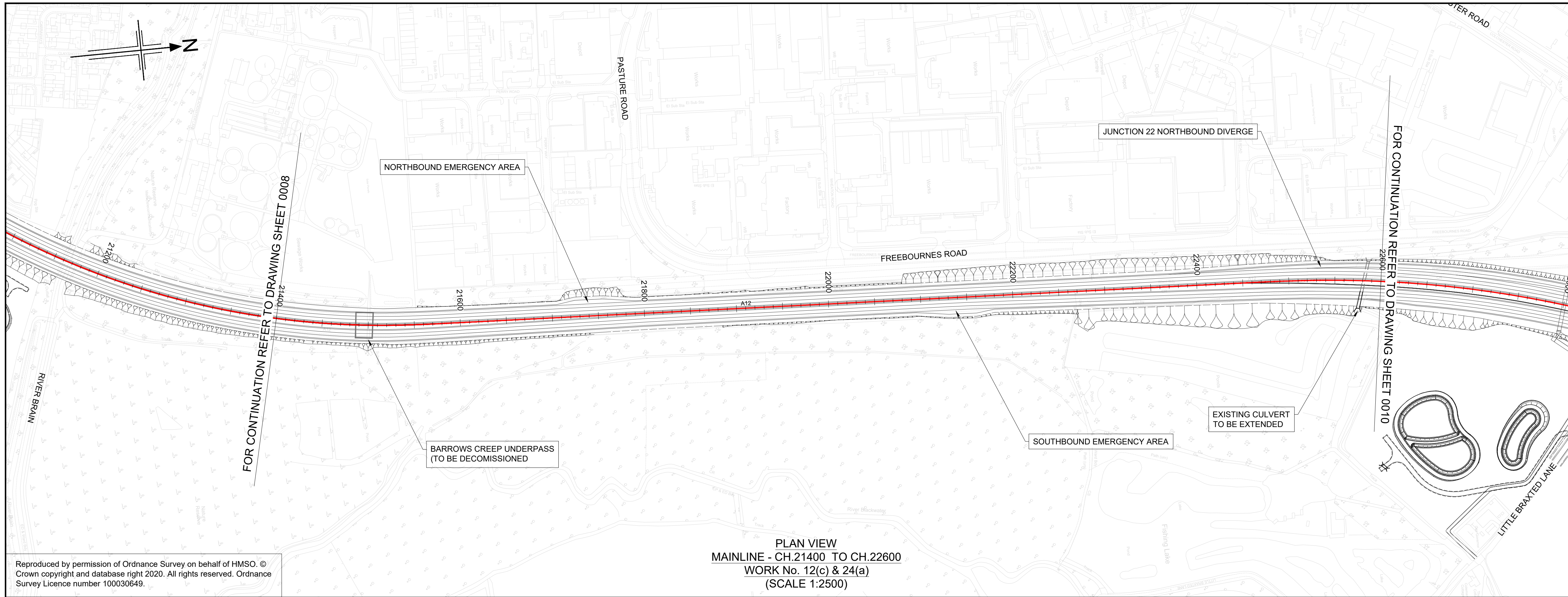
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 8 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC-
Location	SCHW
Type	-DR-
Role	C
Number	2008

S4

P01

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NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

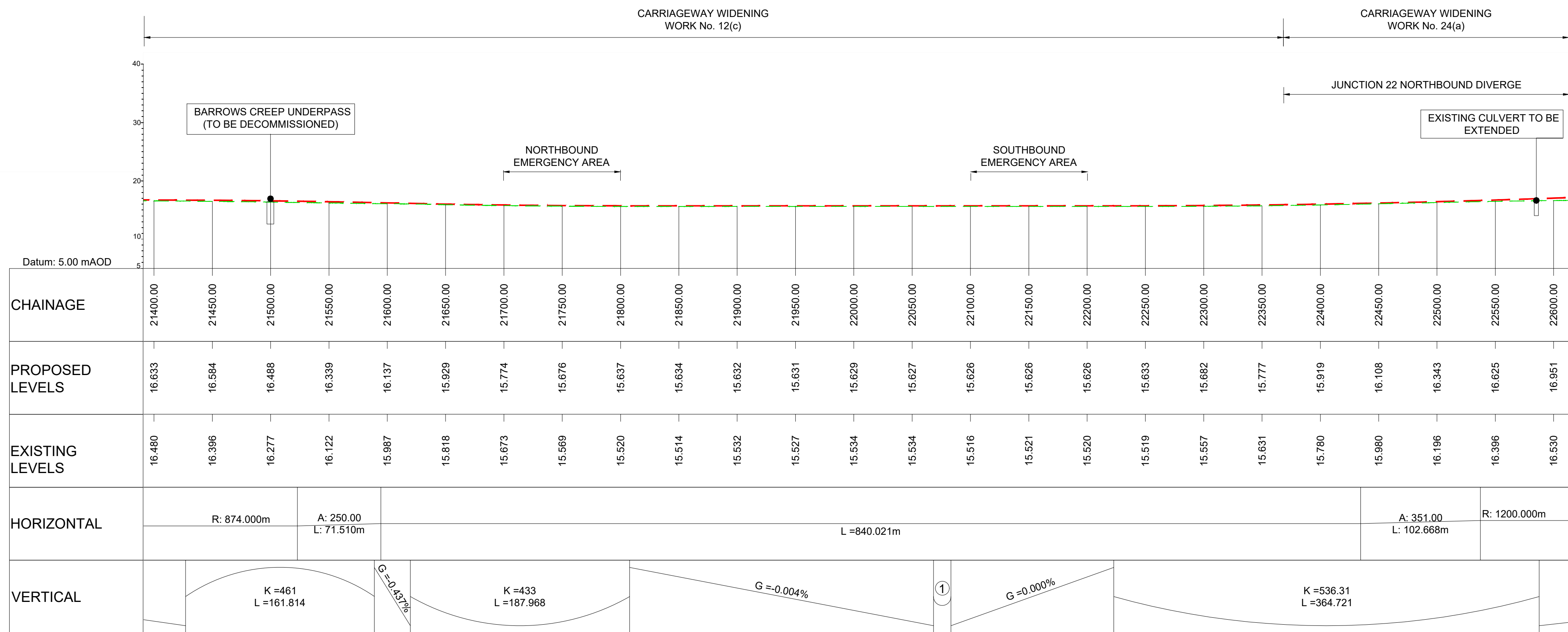
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



LONGITUDINAL SECTION
MAINLINE - CH.21400 TO CH.22600
(SCALE H=1:2500, V =1:500) ① K = 399.34; L = 15.000

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

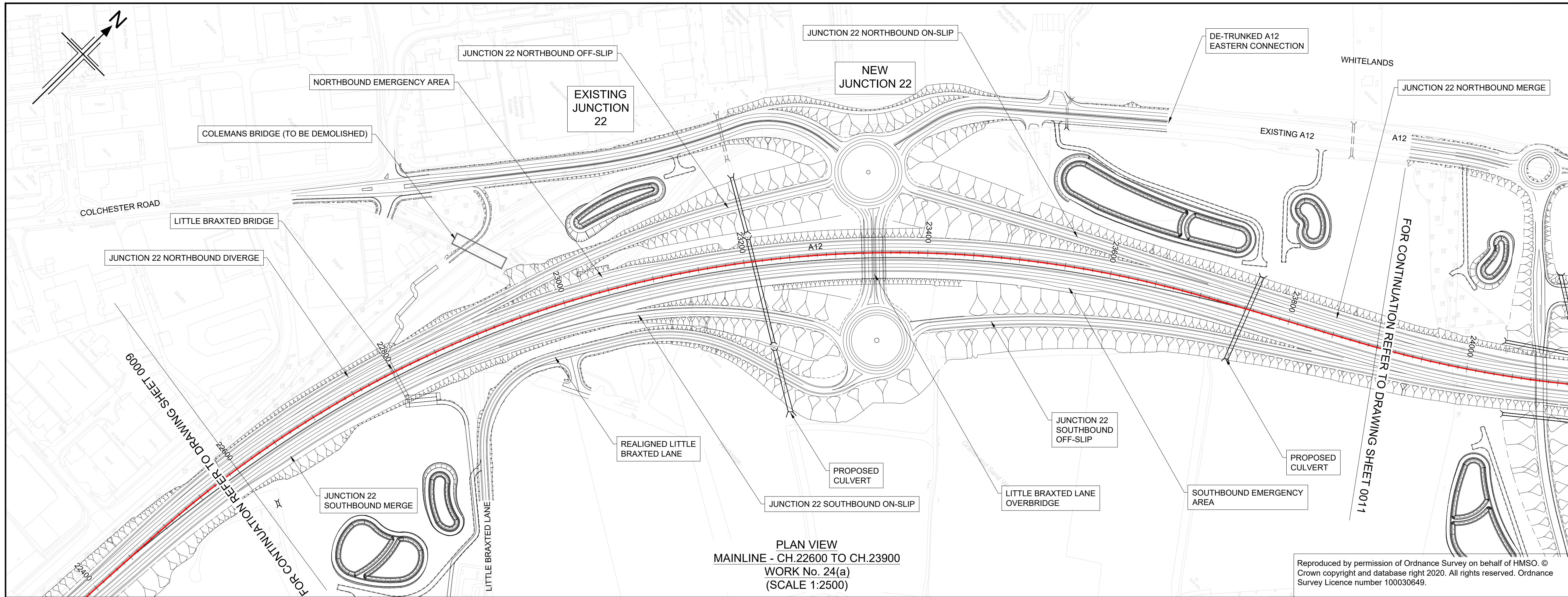
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 9 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC-
Location	SCHW
Type	Role
Number	Number

P01

HE551497 - JAC - LDC - SCHW - DR- C -2009

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NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

0000

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

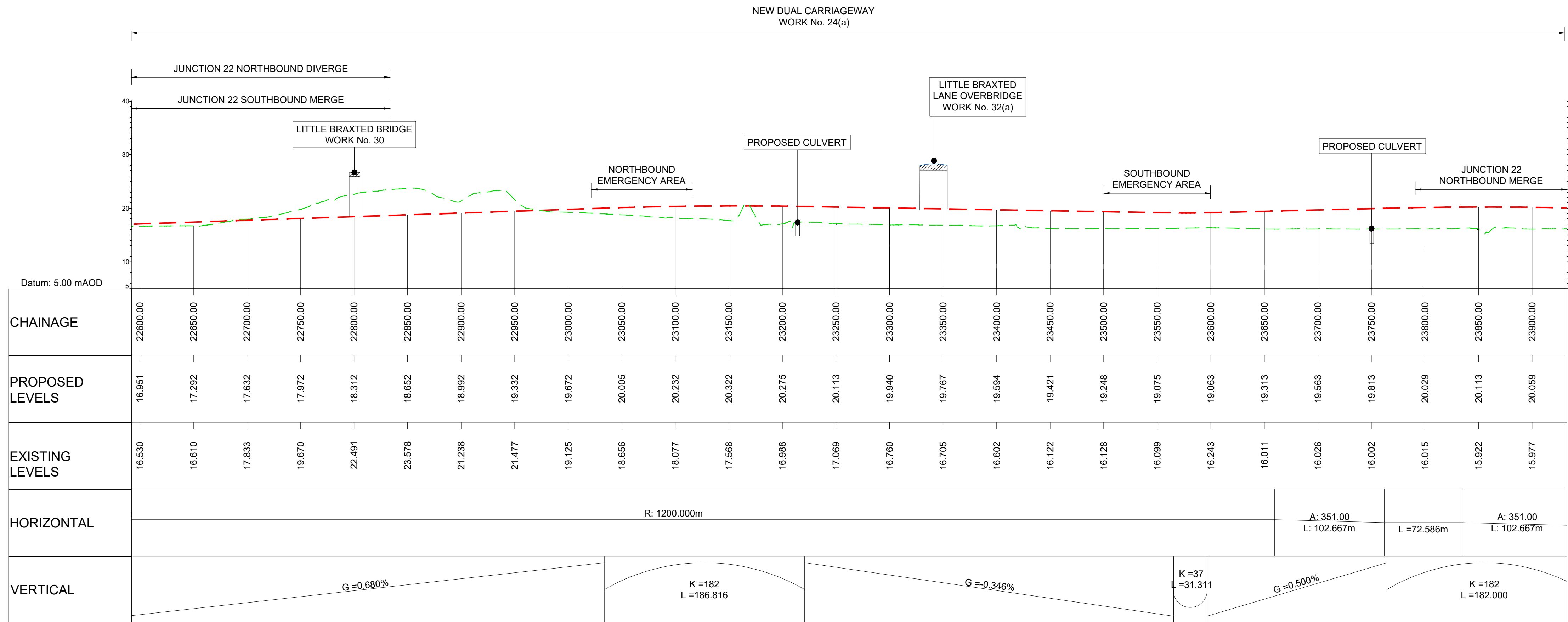
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client:

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

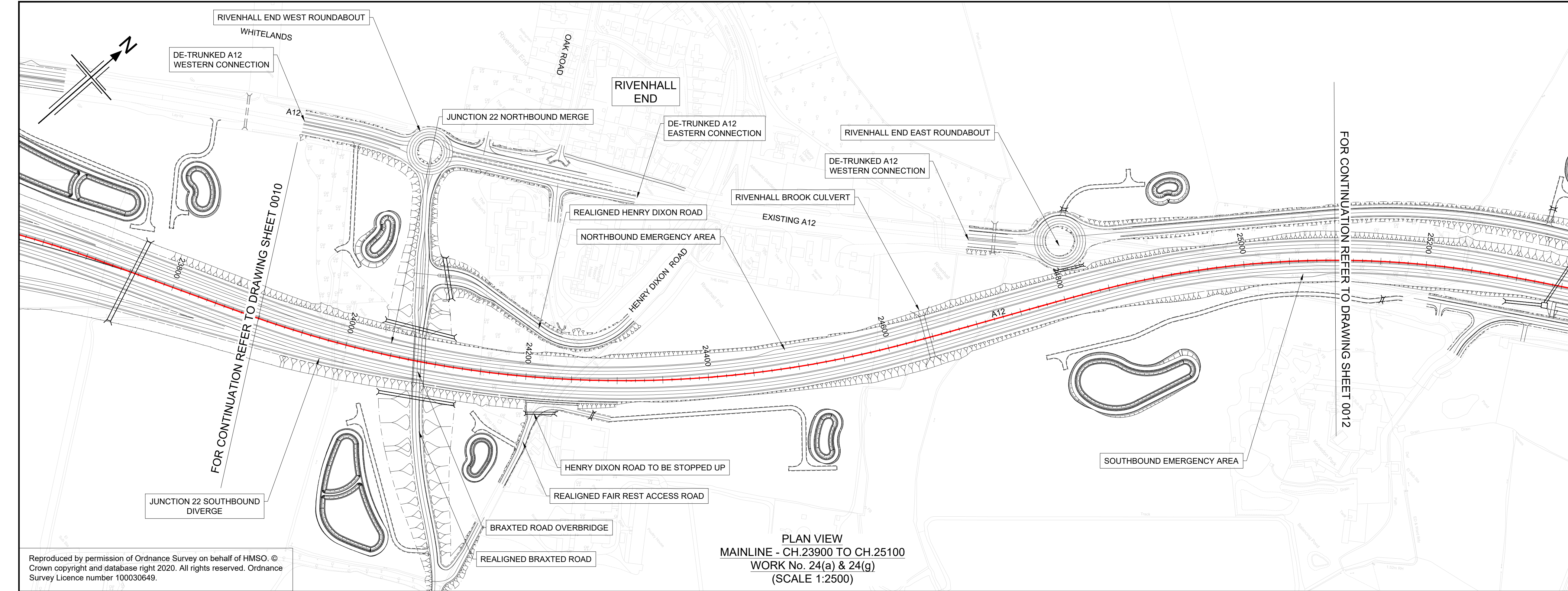
Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 10 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number	PIN	Originator	Volume
HE551497 - JAC - LDC - SCHW			

HE551497 - JAC - LDC - SCHW -DR- C -2010

C:\pwworking\jacobs_uk_highways_ss4\elnourad\0155545\HE551497-JAC-LDC-SCHW-DR-C-2011.dwg - 01/09/2022 10:51:05 - A1 Frame - ElnourA



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NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

9600

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

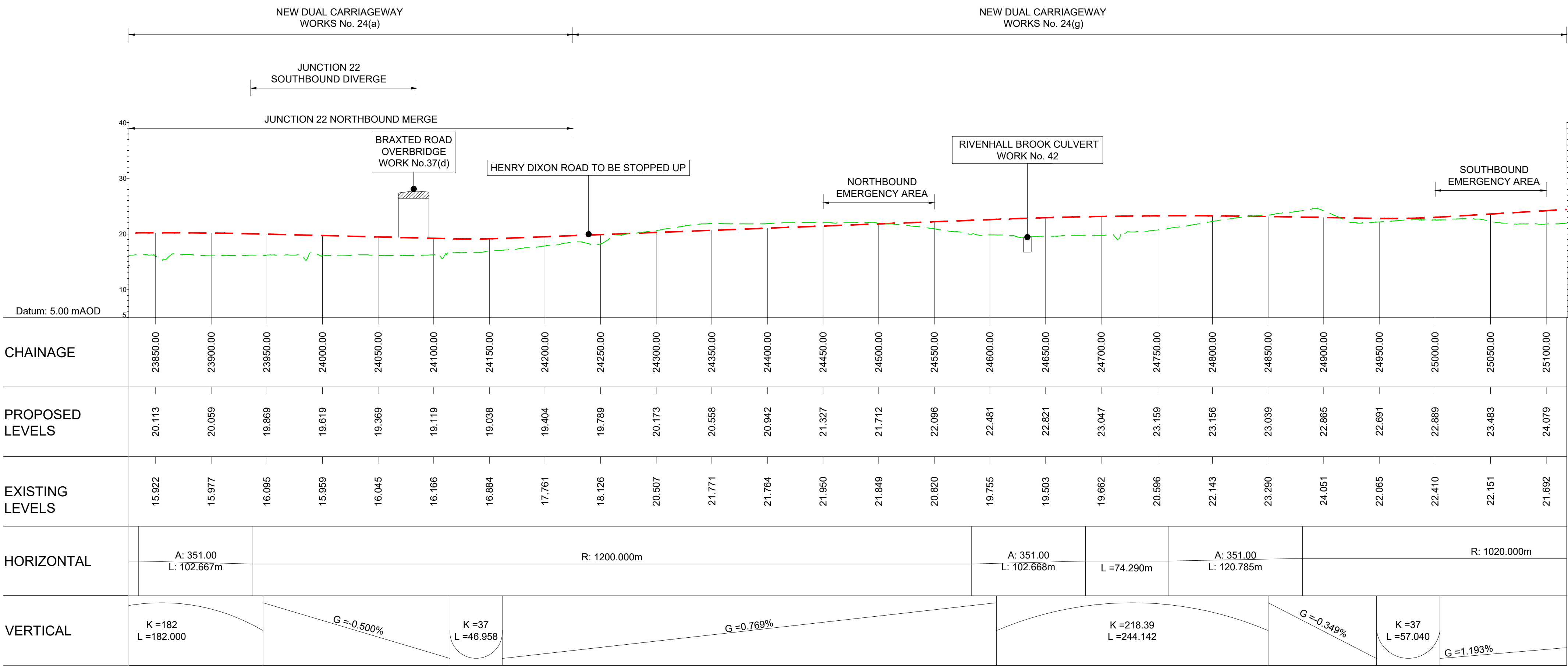
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



LONGITUDINAL SECTION
MAINLINE - CH.23900 TO CH.25100
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client

national highways

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 11 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number

PIN

Originator

Volume

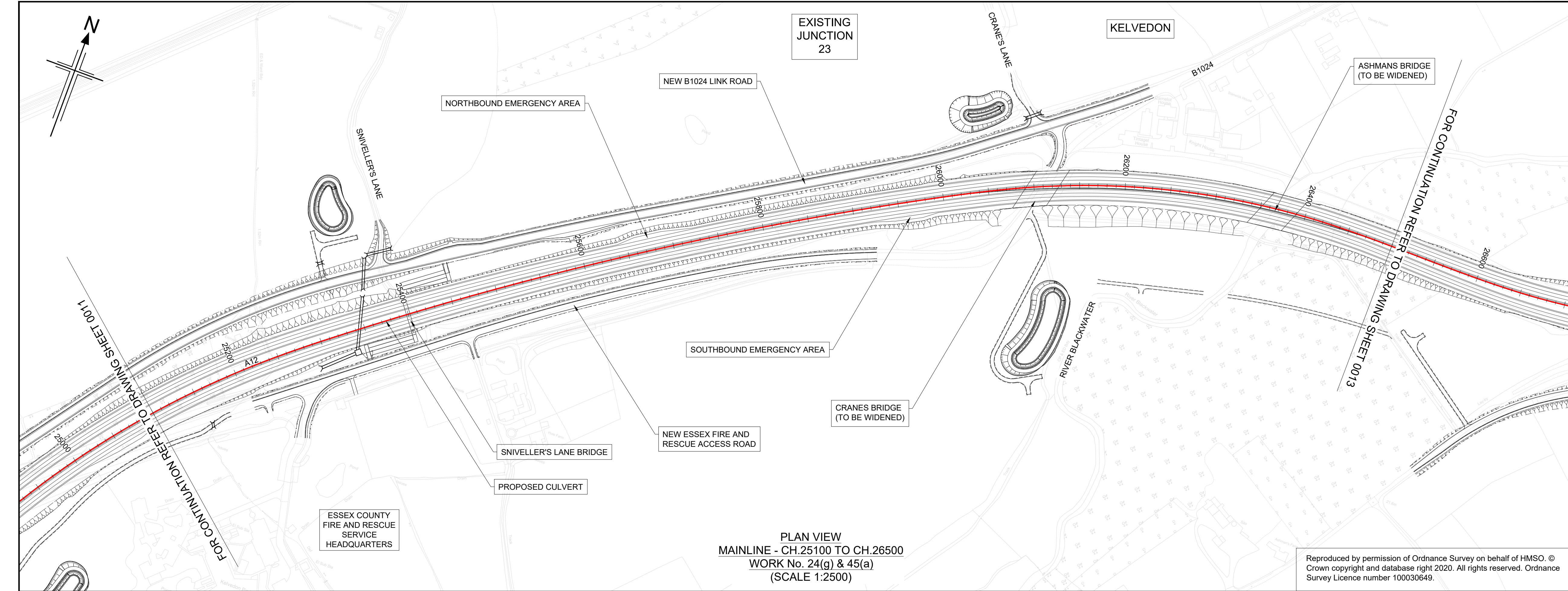
HE551497 - JAC - LDC - SCHW -DR- C -2011

Location

Type

Role

Number



NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

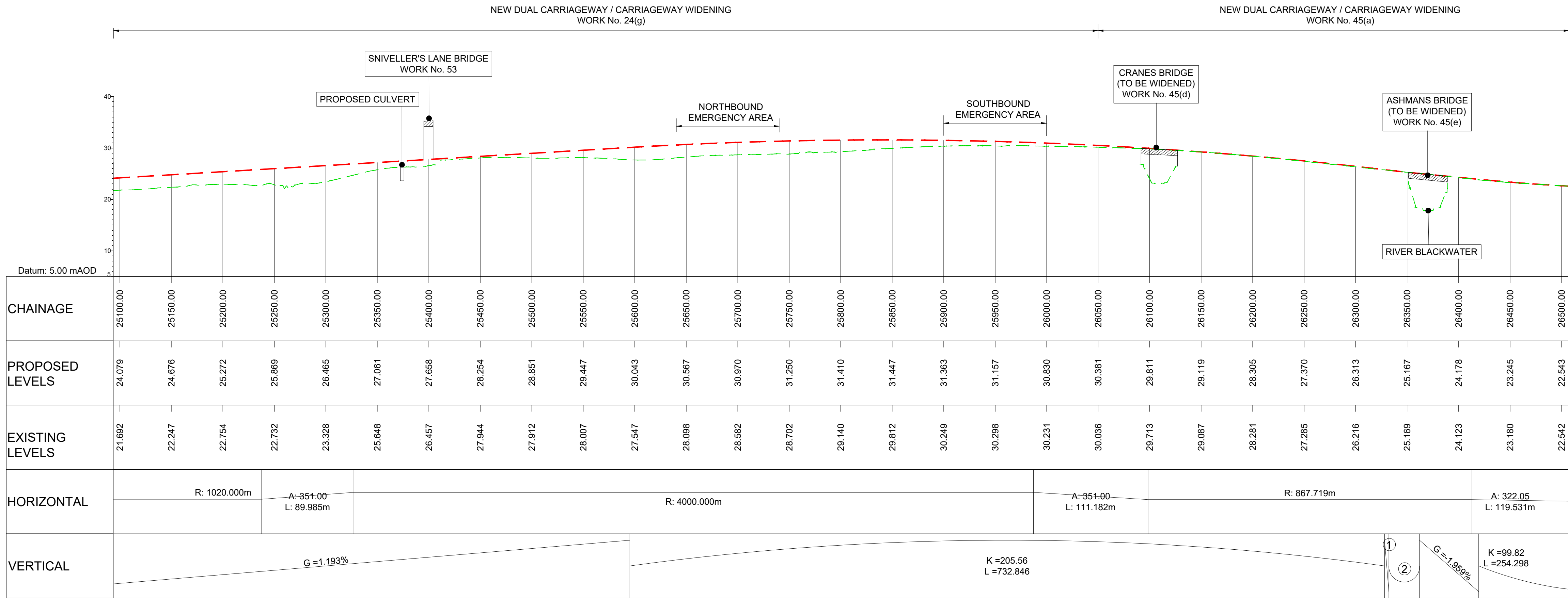
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200

SCALE 1:2500 METRES

0 10 20 30 40 50

SCALE 1:500 METRES



LONGITUDINAL SECTION
MAINLINE - CH.25100 TO CH.26500
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

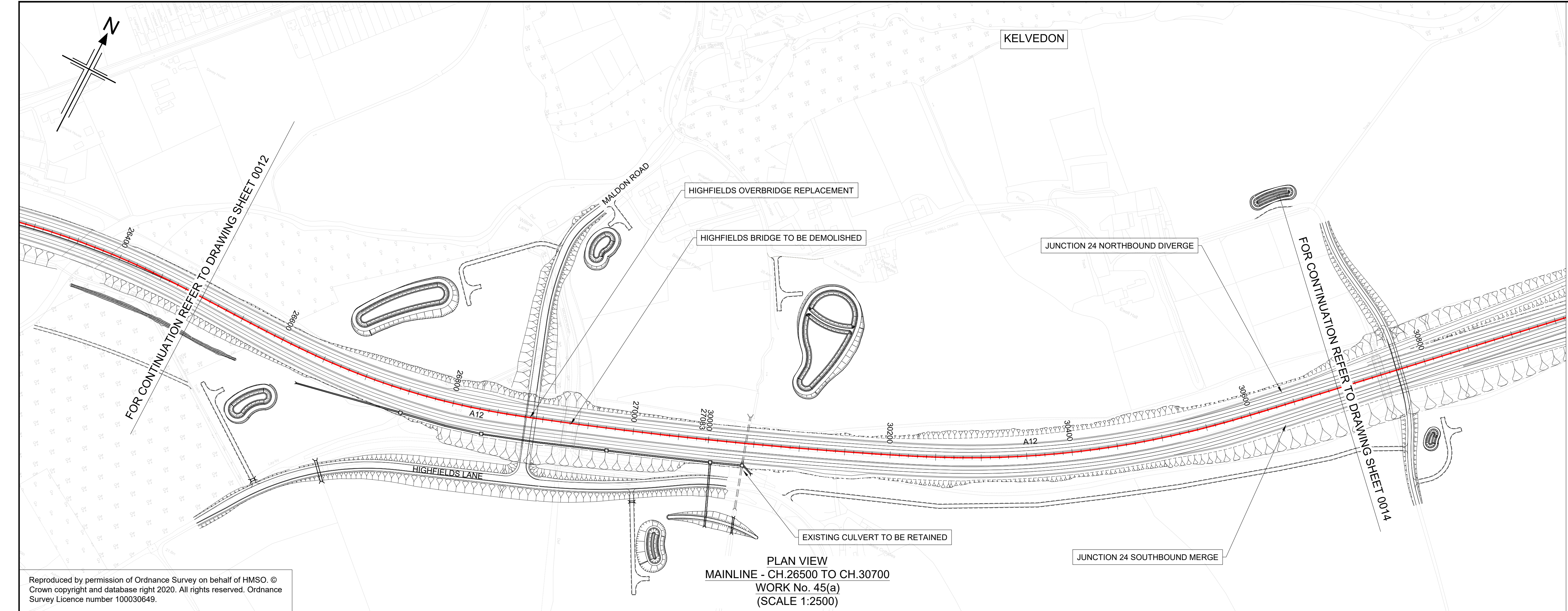
Development Consent Order Drawing Number: TR010060/APP/2.11

Client:

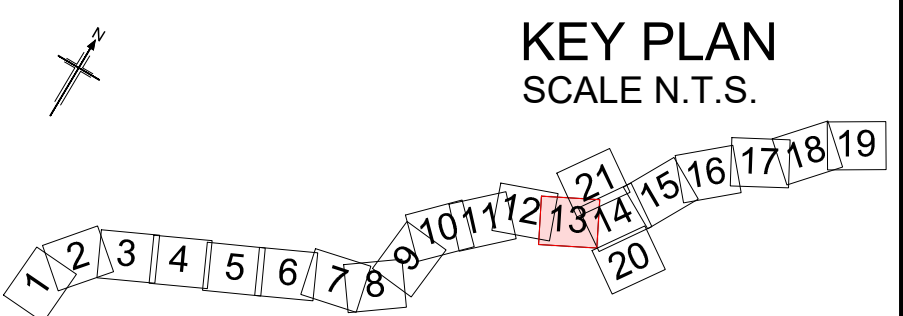
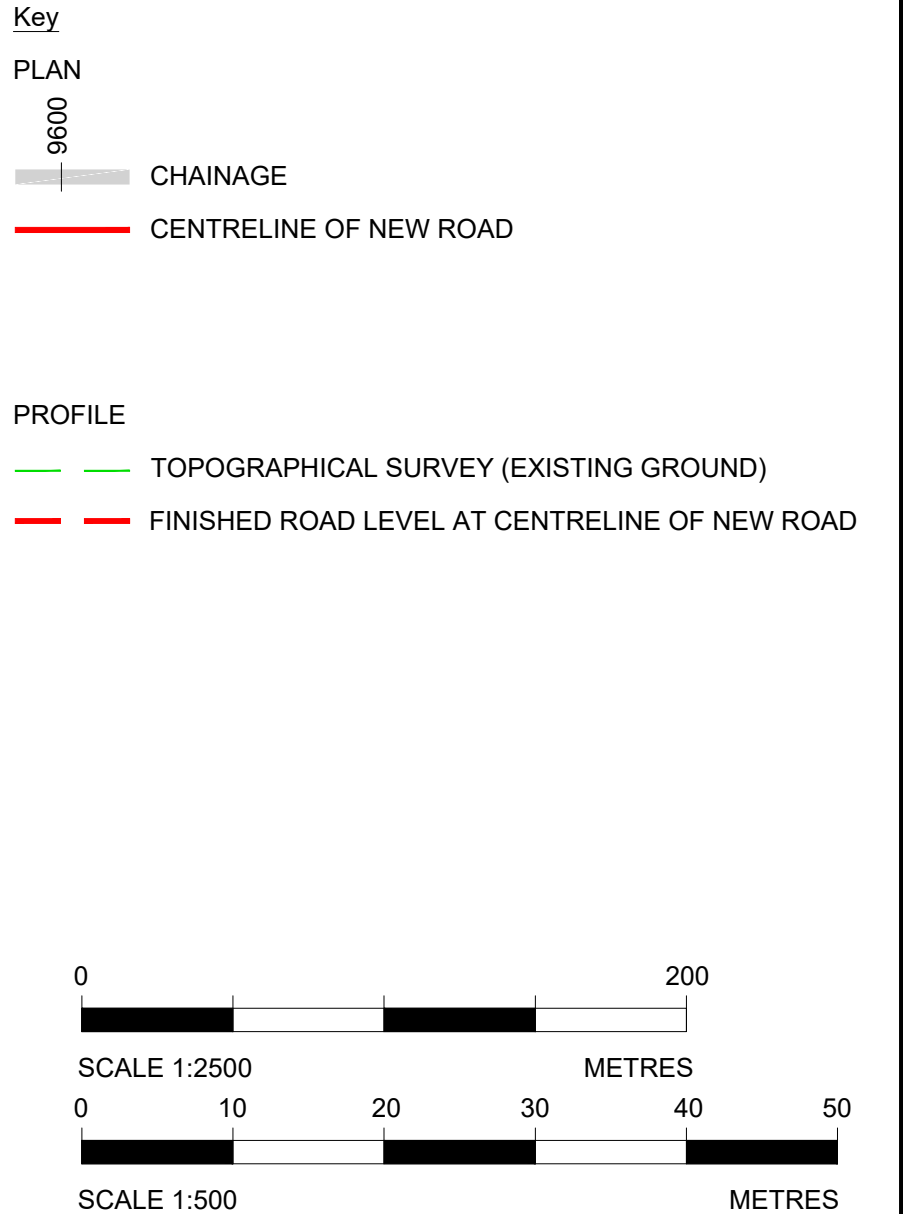
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 12 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)				
Purpose of issue	DCO APPLICATION				
State Code	Preliminary				
Project Stage	PCF3				Drawing status
Scale at A1 (841x594mm)	AS SHOWN				S4
Jacobs No.	B36601D1				Rev
Client no.	HE551497				P01
Drawing number	PIN	Originator	Volume		
HE551497 -	JAC	LDC -			
SCHW		-DR- C -2012			



- NOTES
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 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 - FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 13 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497

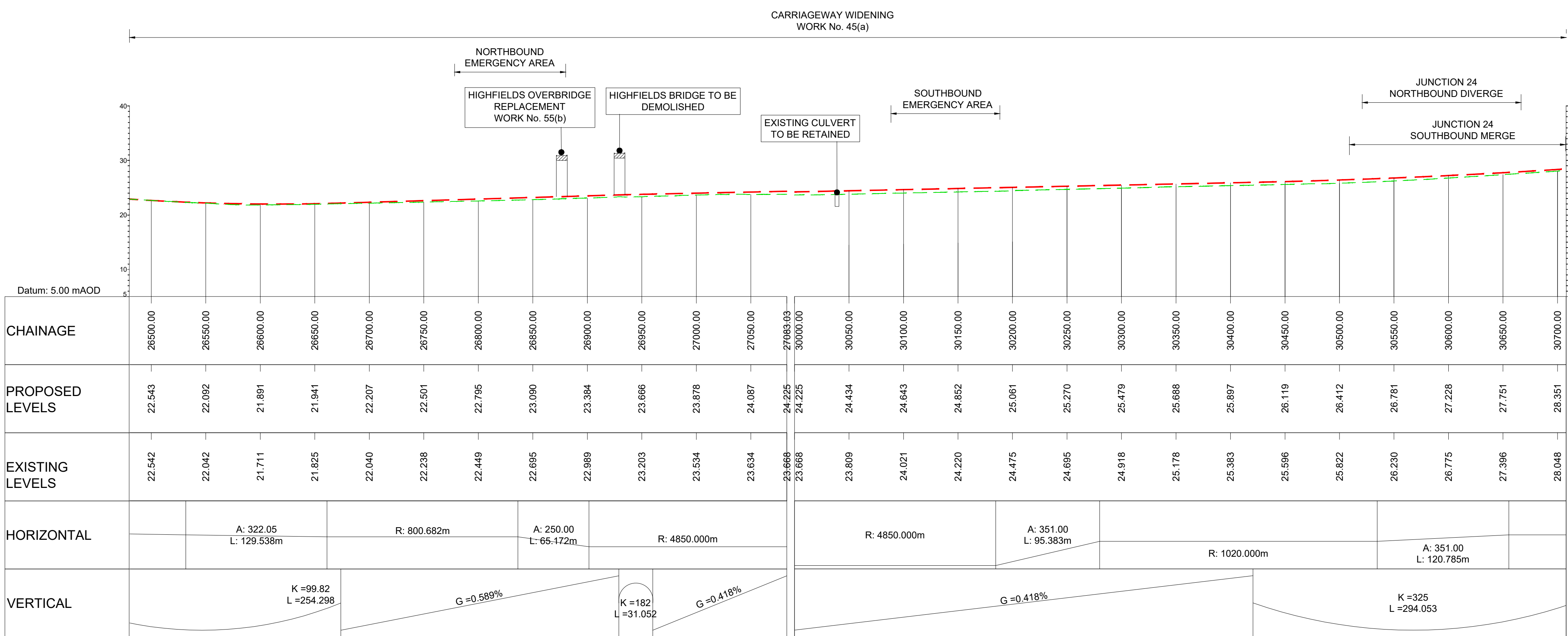
Drawing number
PIN

Originator
JAC

Volume
LDC-

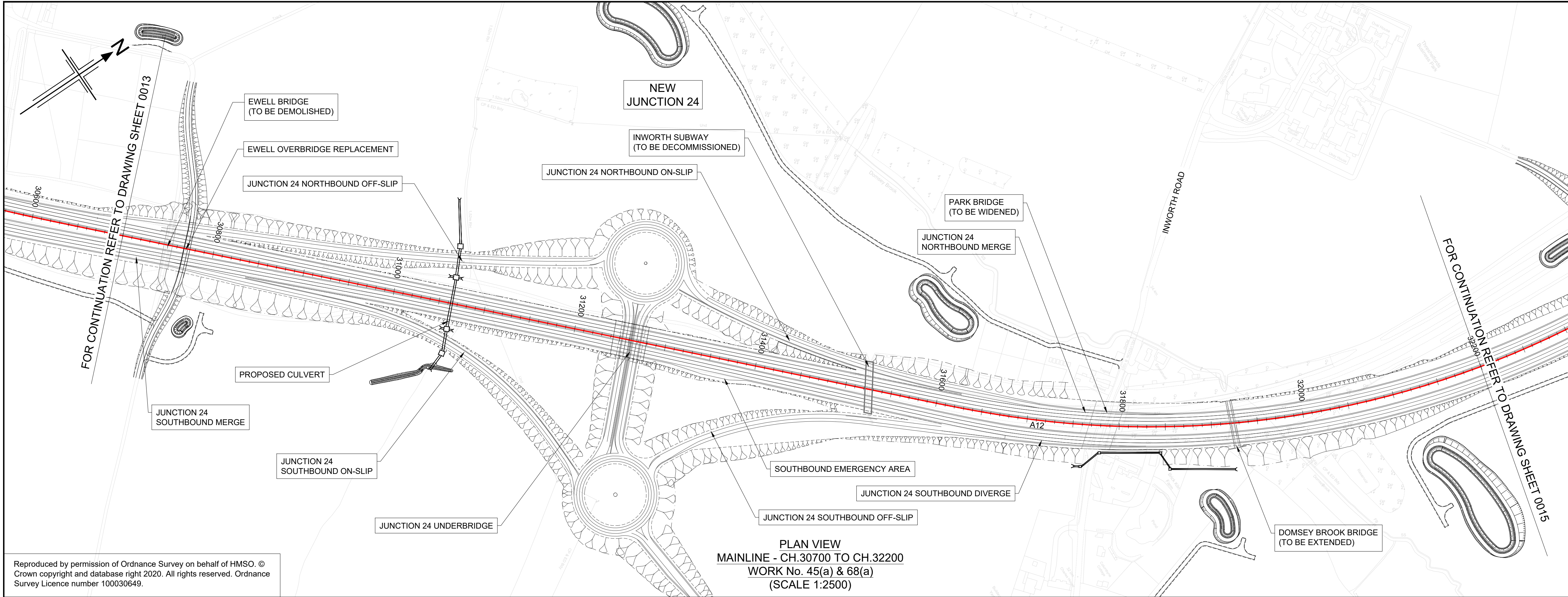
Location
SCHW

Type | Role | Number
-DR- C -2013



LONGITUDINAL SECTION
MAINLINE - CH.26500 TO CH.30700
(SCALE H=1:2500, V=1:500)

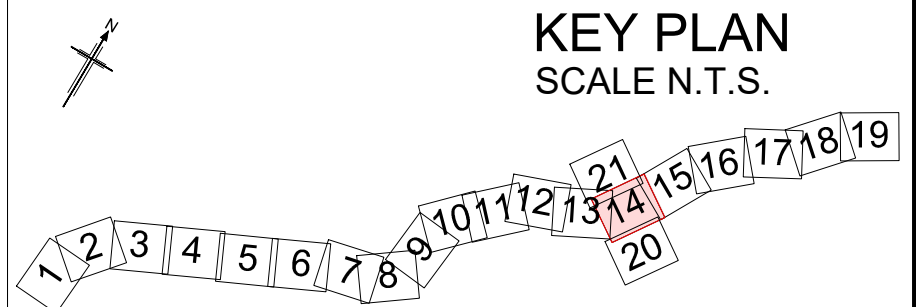
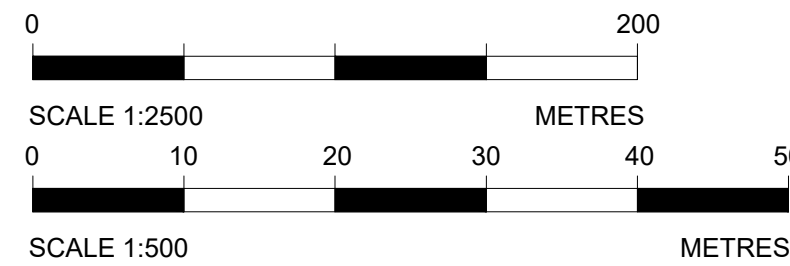
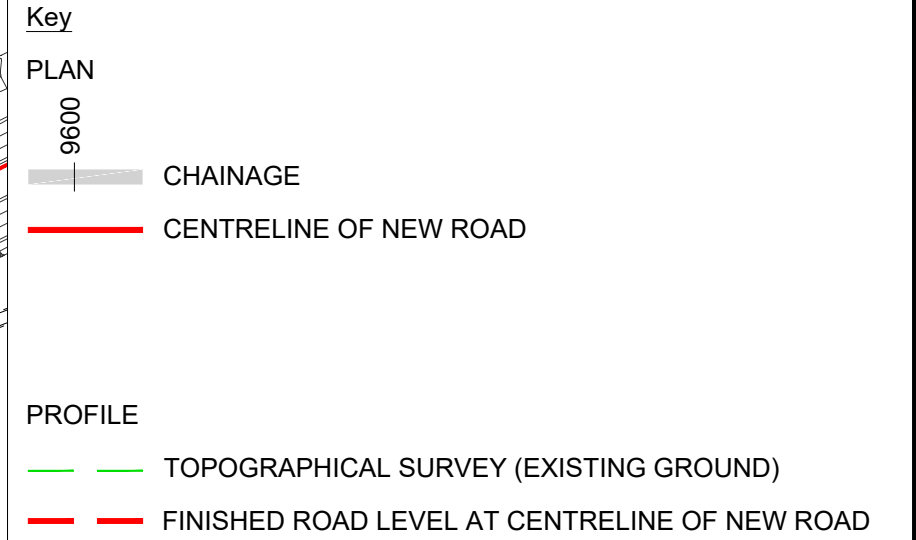
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PLAN VIEW
MAINLINE - CH.30700 TO CH.32200
WORK No. 45(a) & 68(a)
(SCALE 1:2500)

- NOTES
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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.11



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

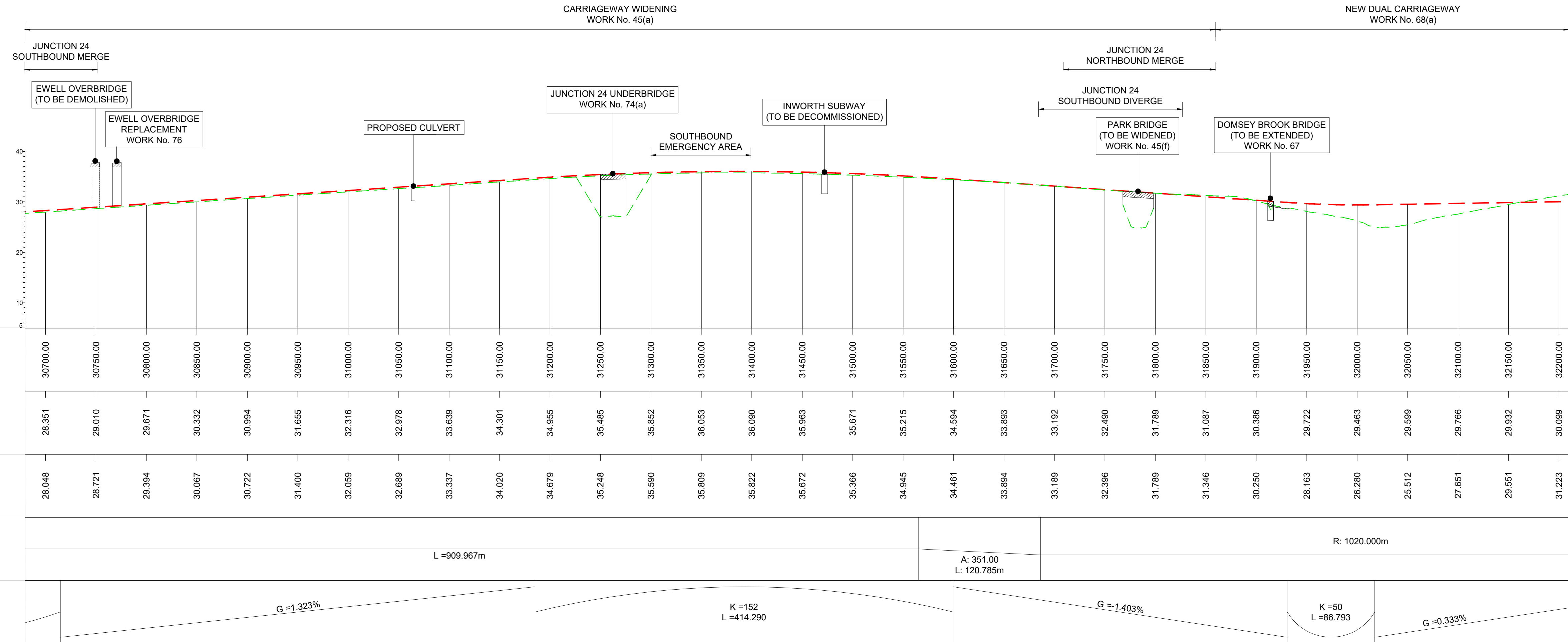
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 14 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC-
Location	SCHW
Type	-DR-
Role	C
Number	2014

Rev

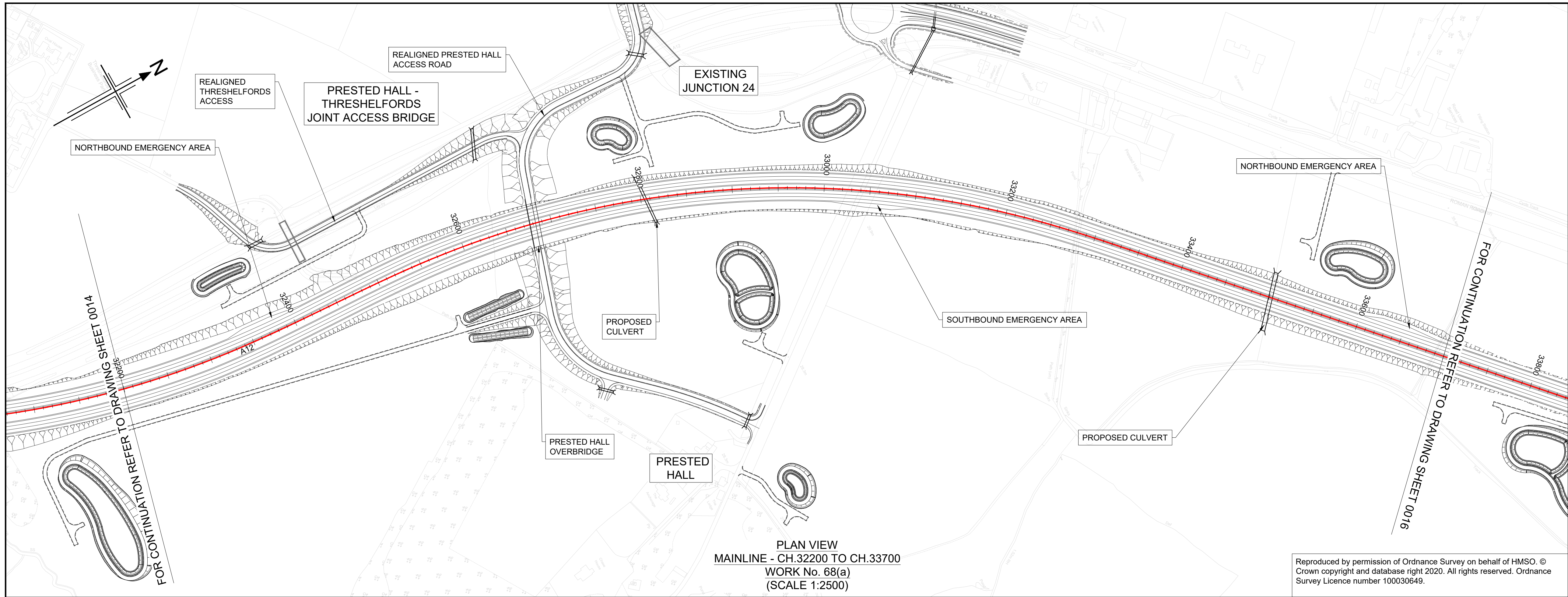
S4

P01



LONGITUDINAL SECTION
MAINLINE - CH.30700 TO CH.32200
(SCALE H=1:2500, V=1:500)

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NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key
PLAN
9600
CHAINAGE
CENTRELINE OF NEW ROAD
PROFILE
TOPOGRAPHICAL SURVEY (EXISTING GROUND)
FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0200

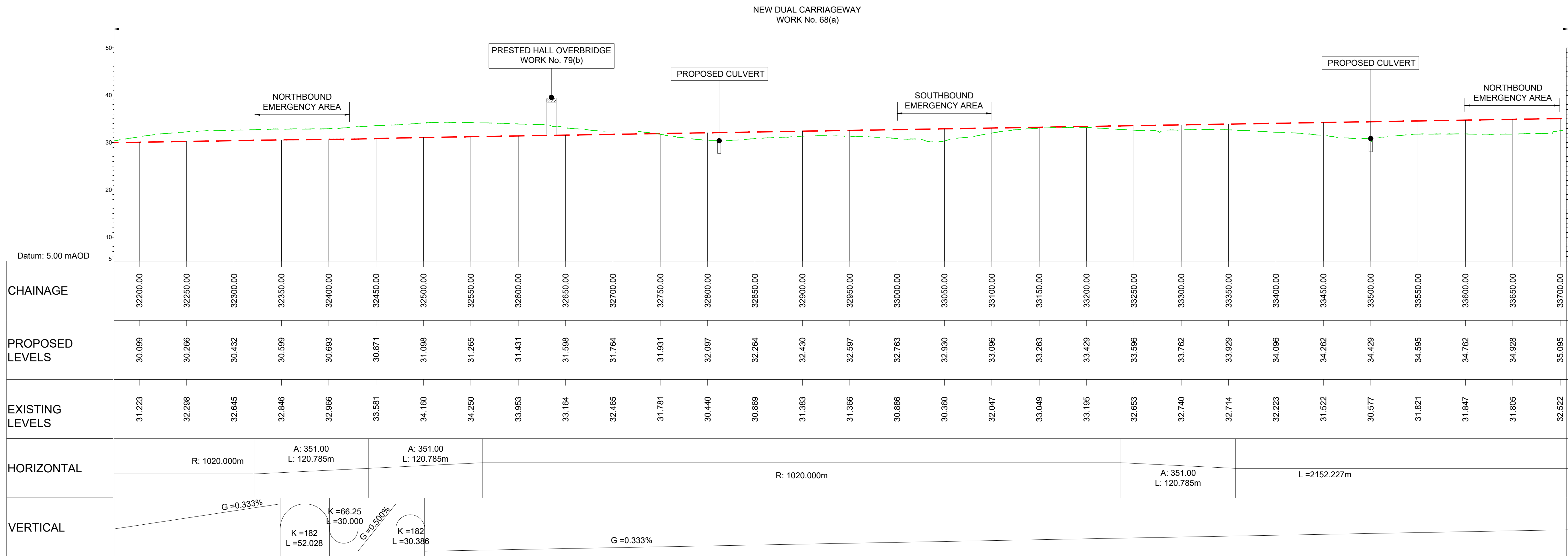
SCALE 1:2500

01020304050

SCALE 1:500

METRES

METRES



KEY PLAN
SCALE N.T.S.
1234567891011121314151617181920

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

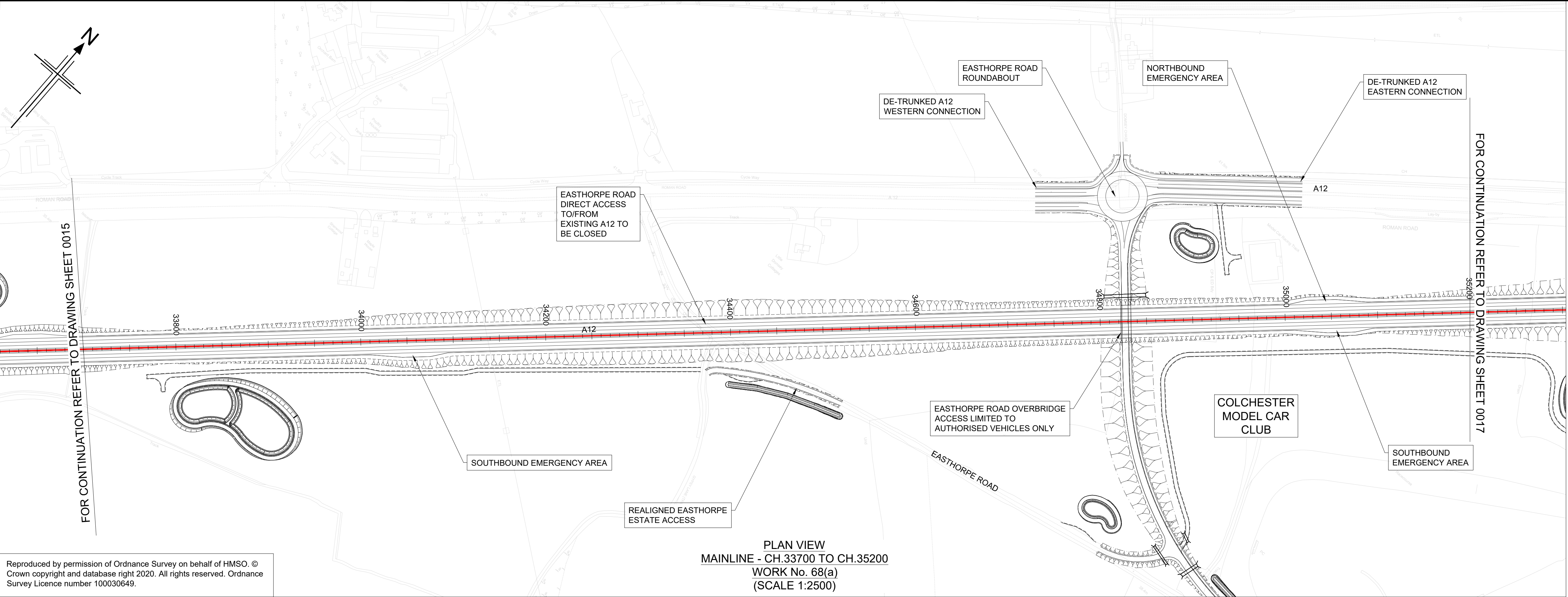
Client
national highways

Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 15 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC
Location	SCHW
Type	DR
Role	C
Number	2015

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NOTES

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- FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

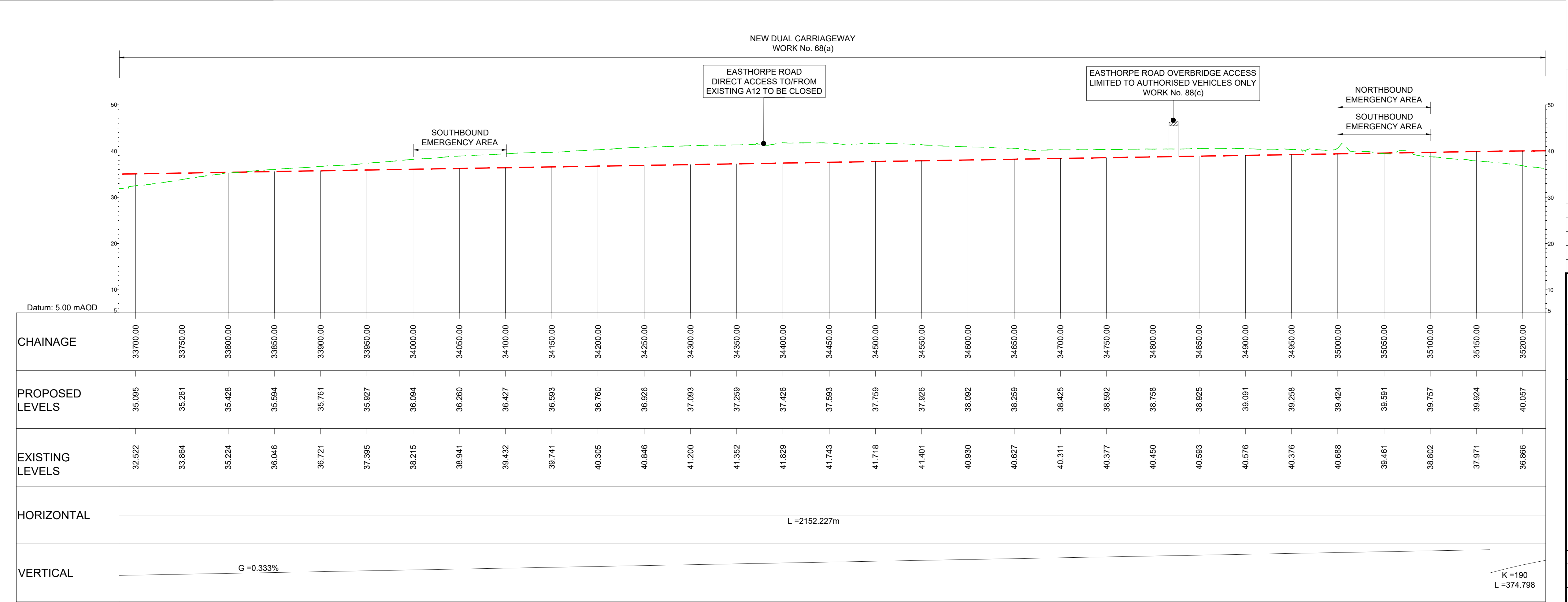
PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES



LONGITUDINAL SECTION
MAINLINE - CH.33700 TO CH.35200
(SCALE H=1:2500, V = 1:500)

Client

Project

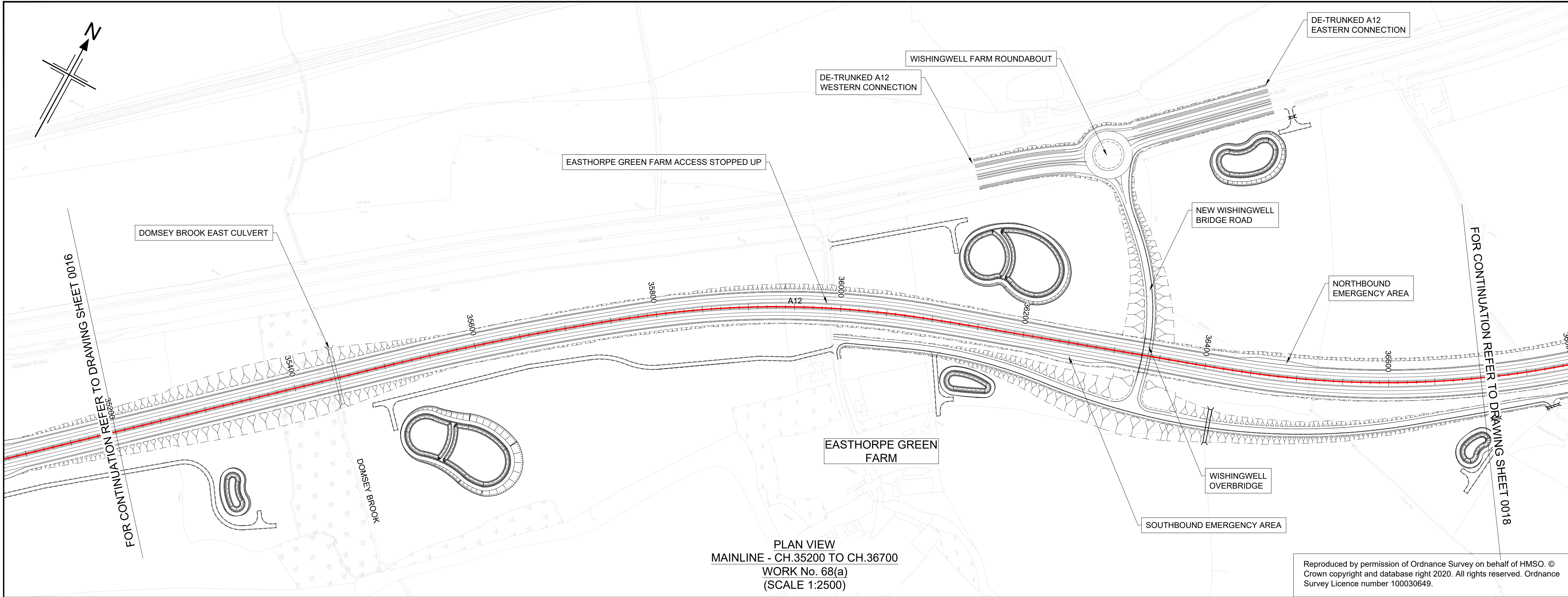
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

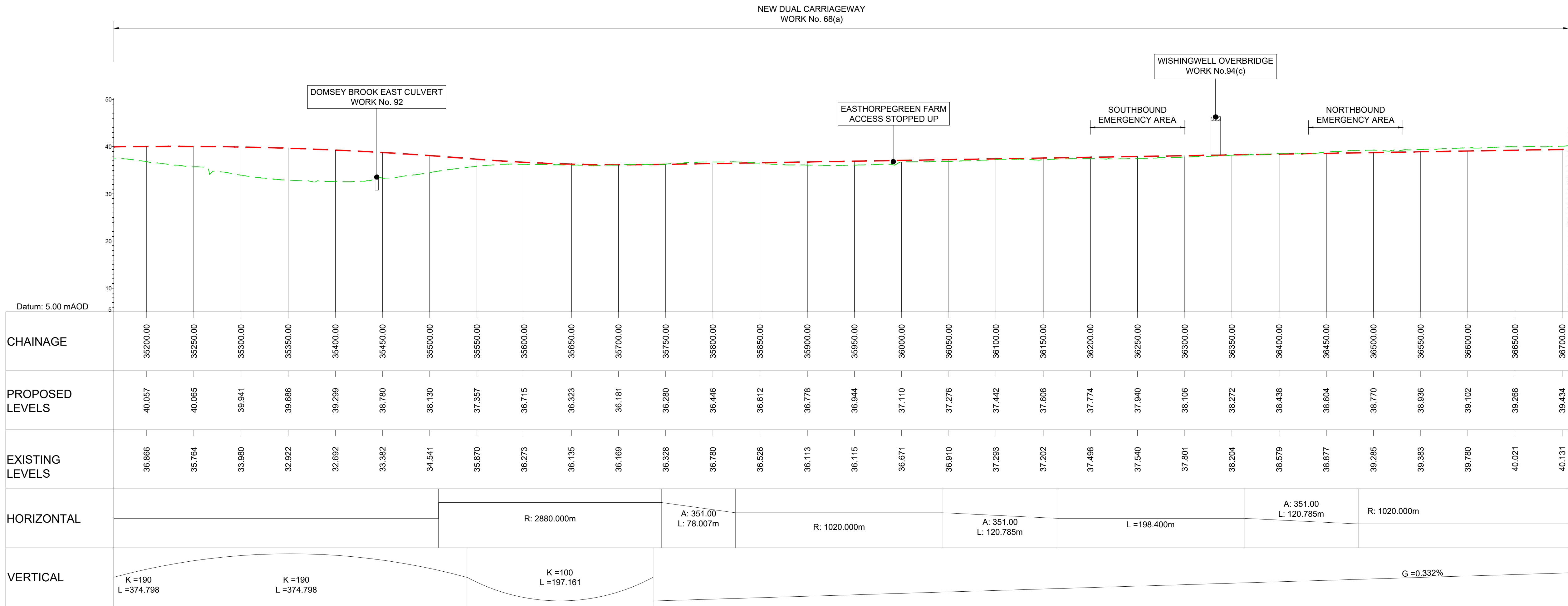
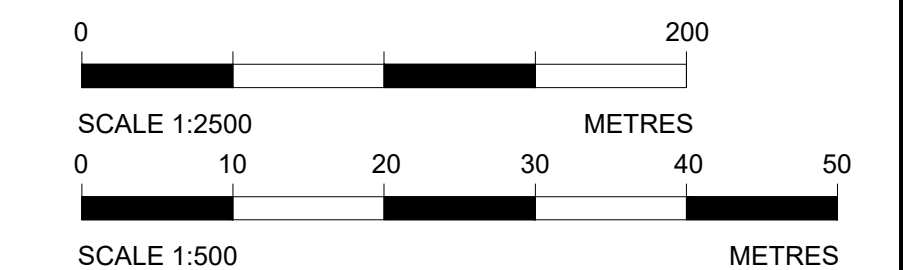
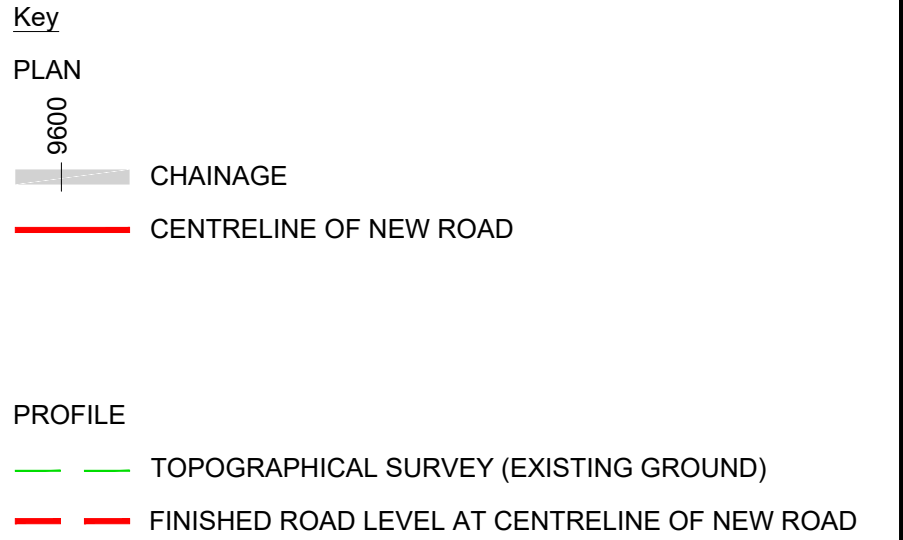
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 16 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF3	Drawing status	
Scale at A1 (841x594mm)	AS SHOWN	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		
Drawing number	PIN	Originator	Volume
HE551497 -	JAC	- LDC -	
SCHW		-DR- C -2016	

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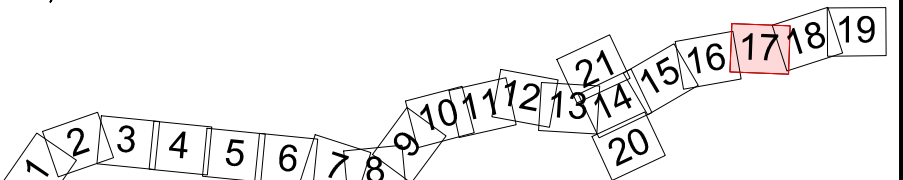


- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
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HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.



LONGITUDINAL SECTION
MAINLINE - CH.35200 TO CH.36700
(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	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.11

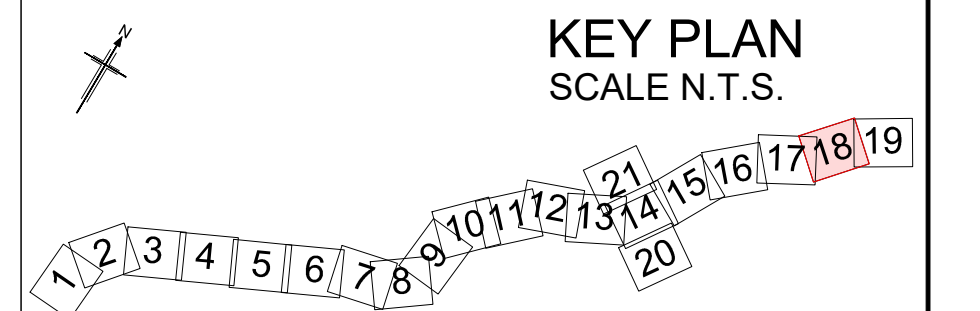
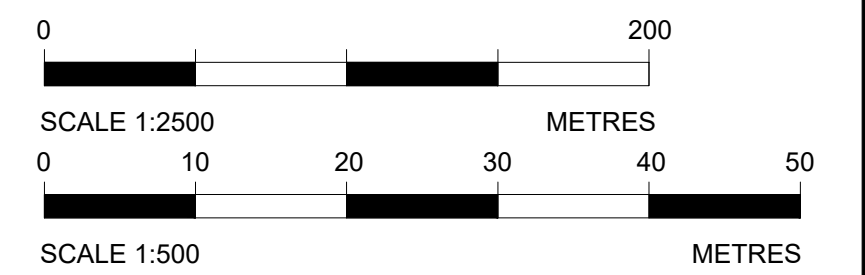
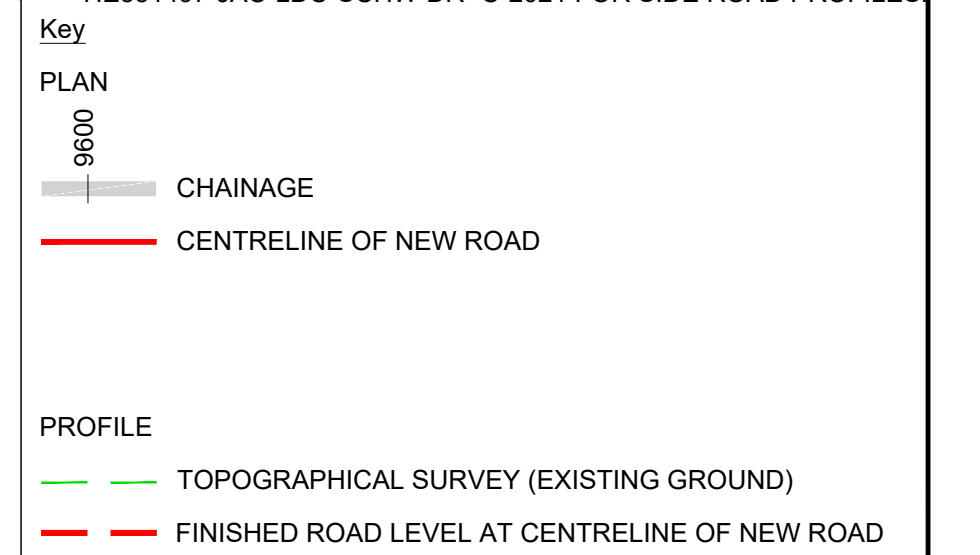
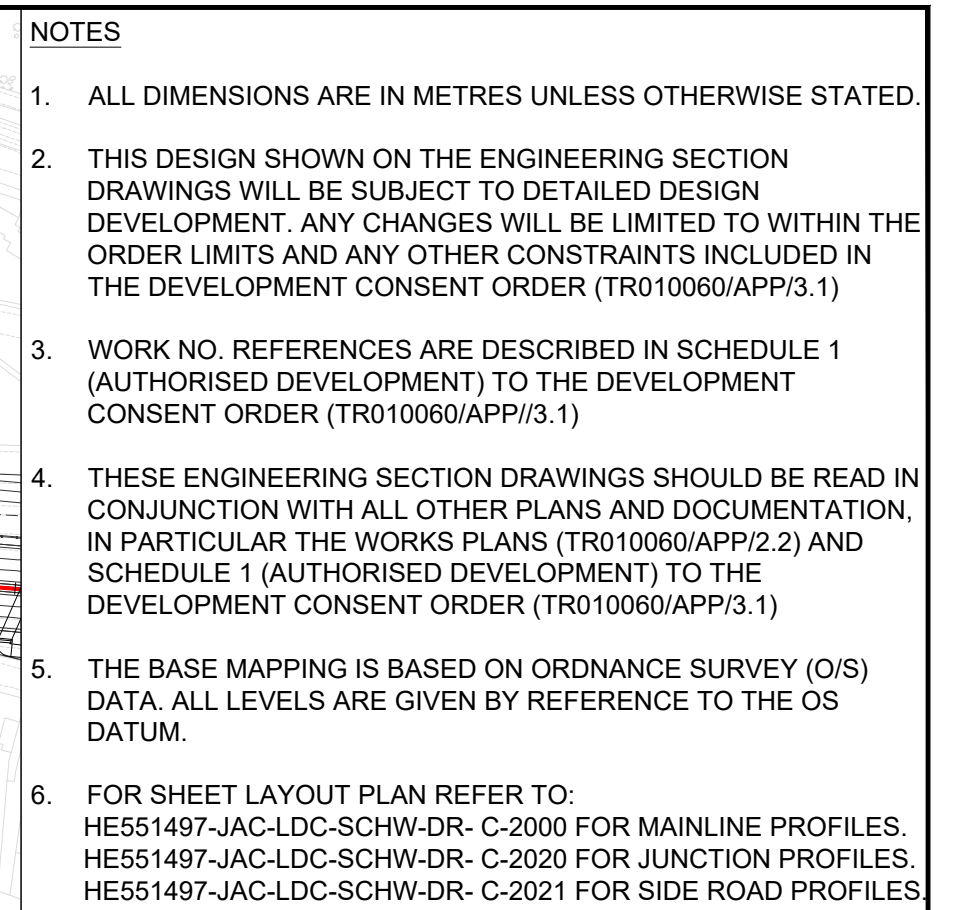
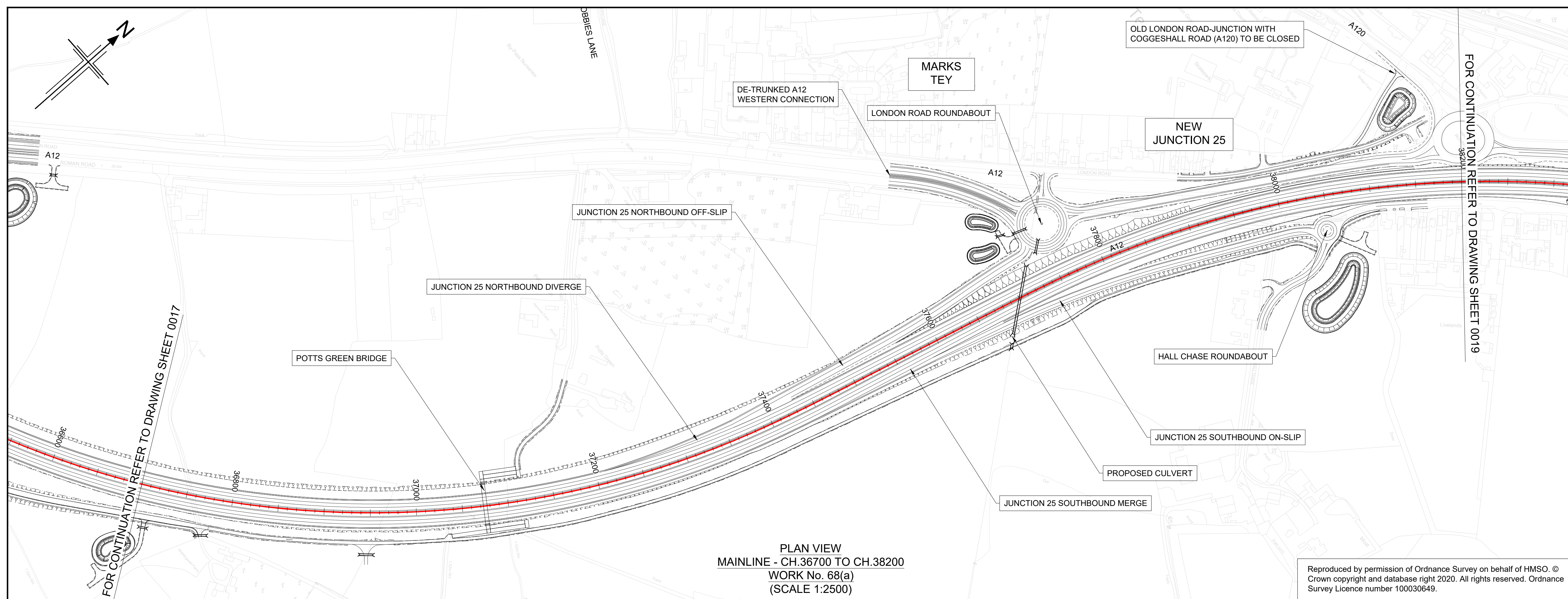


A12 CHELMSFORD TO A120 WIDENING SCHEME

ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 17 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC
Location	SCHW
Type	-DR-
Role	C
Number	2017

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01						



P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM	
P02	16/05/23	DCO CHANGE	AE	LH	RM	RM	
Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Rev'd	Apprv'd	

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.11



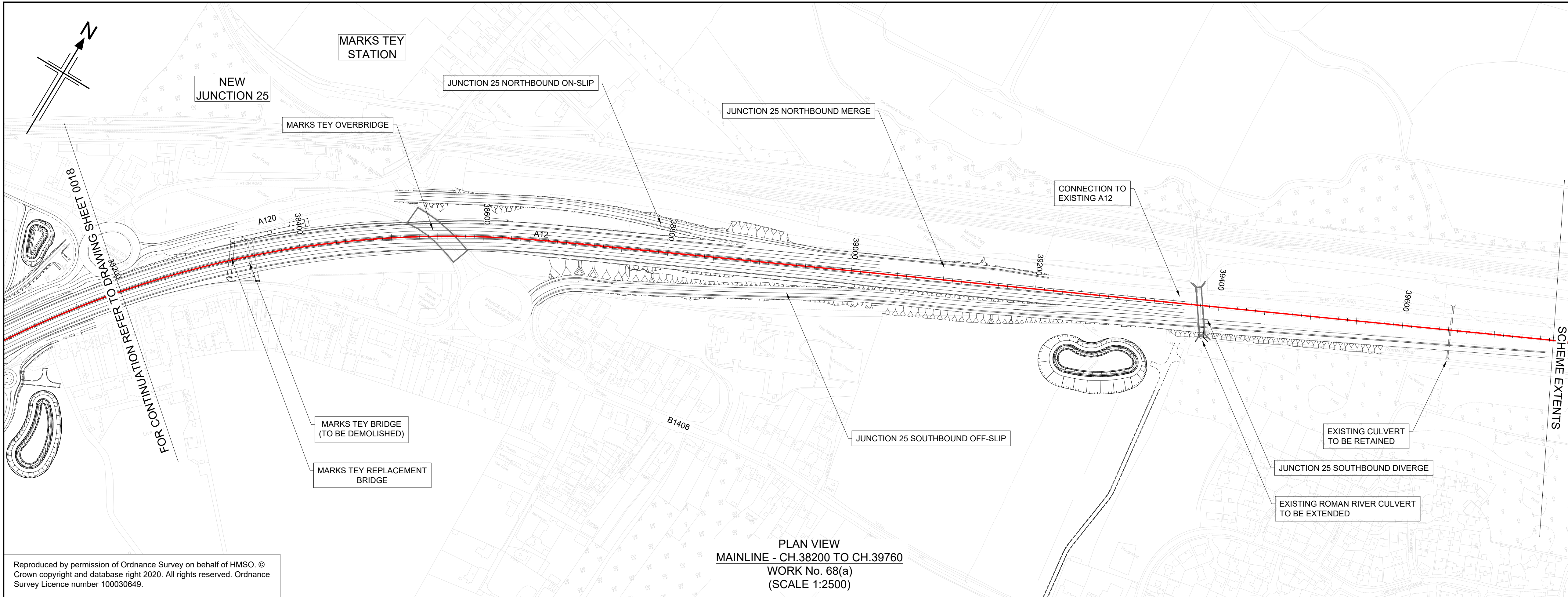
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 18 OF 19**

Regulation	REGULATION 8(1)(k)	
Purpose of issue	DCO EXAM	
State Code	Statutory Procedures and Powers	
Project Stage	PCF 4	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev P02
Client no.	HE551497	

Drawing number
PIN | Originator | Volume
HE551497 - JAC - LDC -
Location | Type | Role | Number
SCHW -DR- C -2018



NOTES

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES,
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES

Key

PLAN

CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

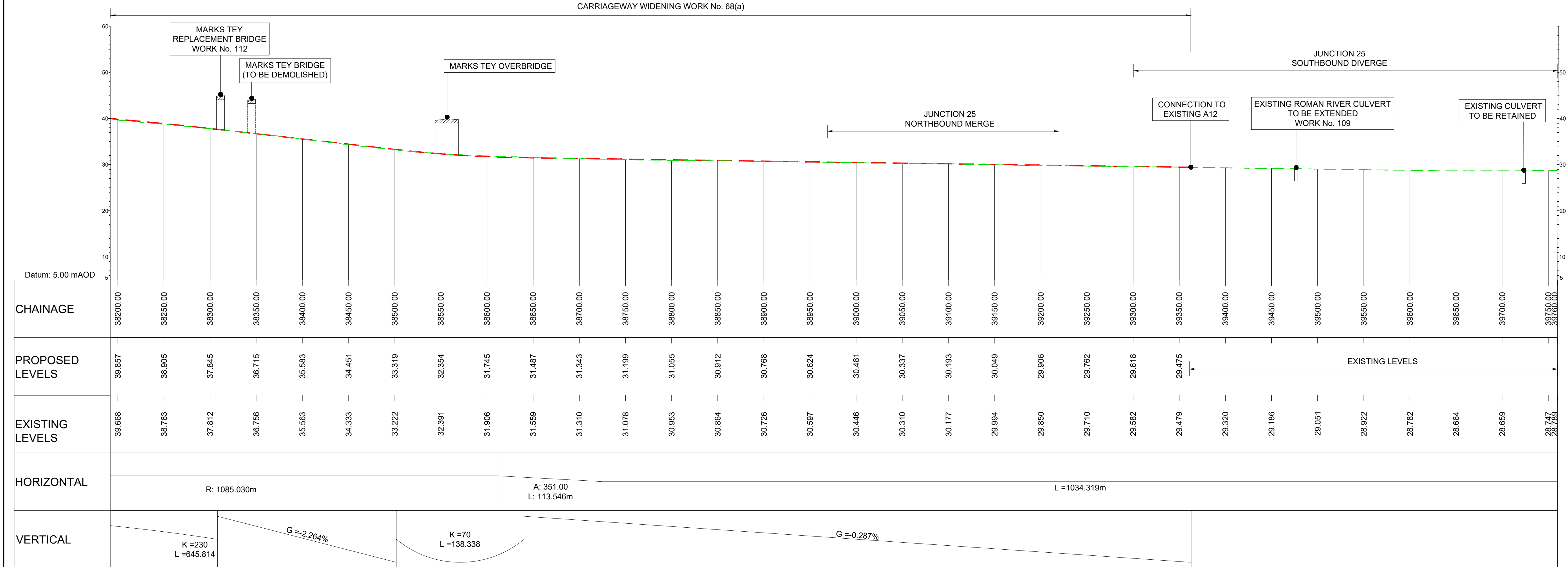
0 200

SCALE 1:2500

0 10 20 30 40 50

SCALE 1:500

METRES



LONGITUDINAL SECTION
MAINLINE - CH.38200 TO CH.39760
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	16/05/23	DCO CHANGE	AE	LH	RM	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client: national highways

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 19 OF 19

Regulation	REGULATION 8(1)(k)
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC-
Location	SCHW
Role	-DR-
Number	C-2019

Rev P02