

A428

Black Cat to Caxton Gibbet improvements

Public consultation 2019

Map book 3: engineering plans



June 2019

A428 Black Cat to Caxton Gibbet map books

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

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

These plans show our current proposals and are published for the purposes of consultation on the project. The proposals are therefore subject to change due to consultation feedback and further design development.

The plans run from the Black Cat junction in the west to the Caxton Gibbet junction in the east.

Map book 1 - General Arrangements

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

- Engineering & construction
- Environment
- Development boundary

Map book 2 - land plans

The land plans show the areas we may need to purchase or require temporary rights to use, in order to construct and operate the project.

Areas we may need to purchase or require temporary rights to use include the land for the permanent works, temporary works and compensation land.

Permanent works

Permanent use of land will be required along the route of the road, for re-connecting local roads and for associated structures, drainage ponds and landscape areas.

Temporary works

Temporary use of land is needed for the project's construction works and to provide sufficient space to do so safely. The plans show land that may be required temporarily for the main construction compounds and storage areas along the route. We will also require rights over land to divert utilities such as gas pipelines, electricity cables and water pipes. Any land that is only required temporarily will be returned to its previous use wherever possible once construction has been completed.

Compensation land

Compensation land may include environmental protection measures such as habitat creation and for flood compensation. This land may also need to be acquired permanently.

Map book 3 - engineering plans

This book contains engineering drawings in the following order:

- The plan and profile drawings which detail the vertical and horizontal alignment of the new dual carriageway
- The typical cross section of the new dual carriageway

The plan and profile drawings show the highway details of the route in plan and profile. The drawings are split into two views with the plan on the top and profile underneath.

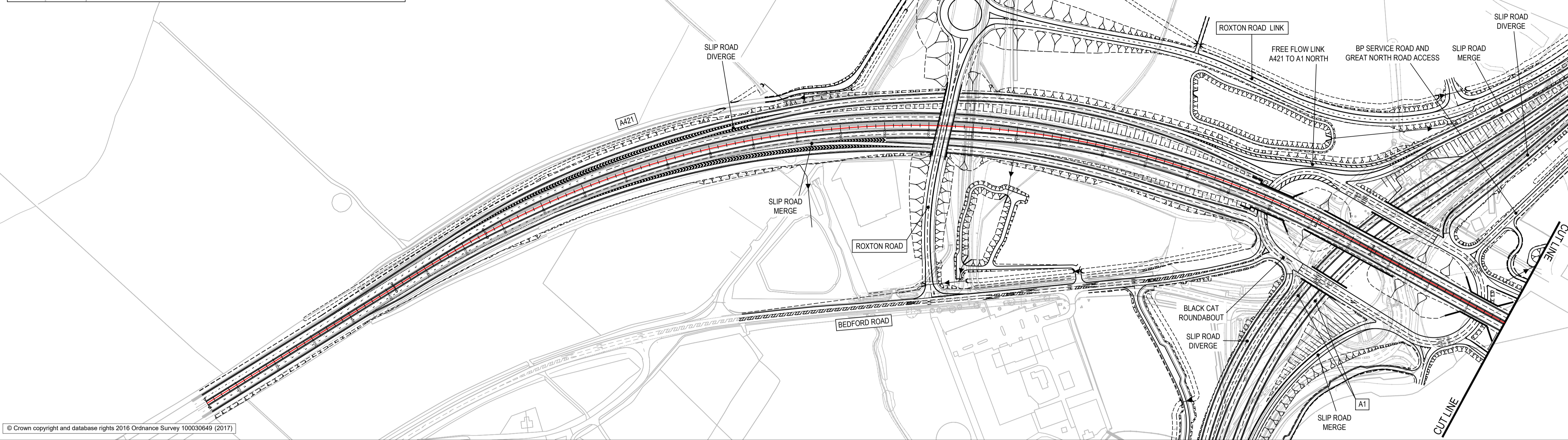
The profile gives the road level in relation to existing ground at a given chainage*. An exaggerated scale is used in the profile to help show the differences in levels and gradients of the design. The profile also shows where existing roads and public rights of way cross over or under the route.

All levels are given in relation to the ordnance datum level** which might be different on each drawing.

*Chainage measures the distance along the route in metres

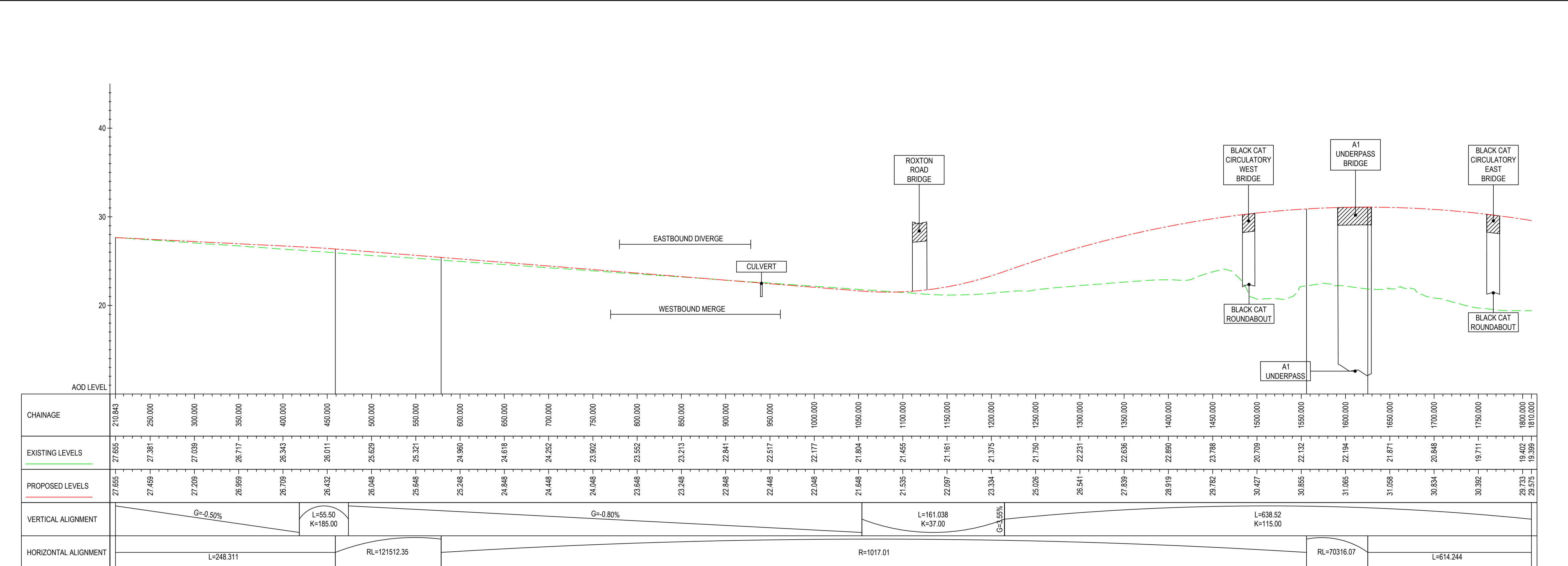
**Above Ordnance Datum level (AOD) is a measurement above mean sea level





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- KEY**
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT
 - DITCH



CENTRELINE LONGSECTION
SCALE: H 1:2500, V 1:250

For Statutory Consultation	JMW	22/05/19	P01
Revision Details	By	Date	Suffix
	Check		

FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

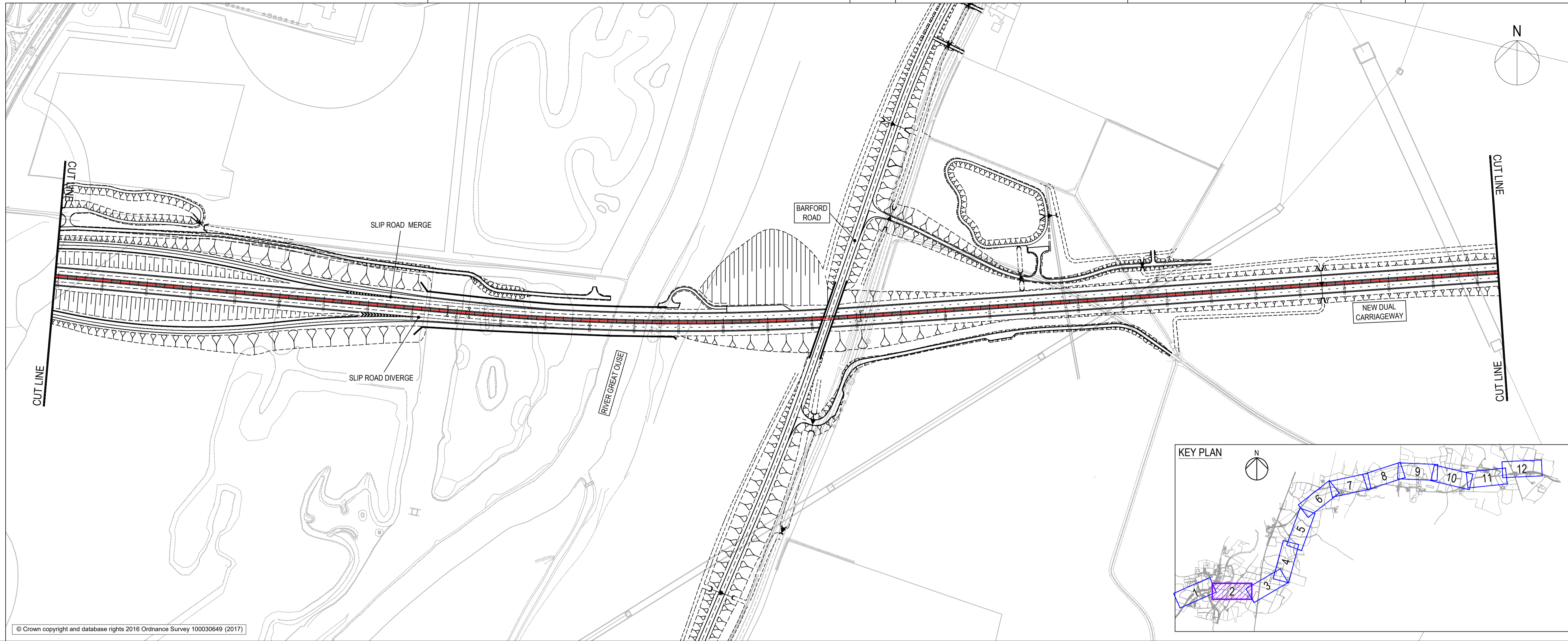
Drawing Title
PLAN AND PROFILE SHEET 1 OF 12

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541			Suitability S2	
Scale @ A1 ---			Zone General	

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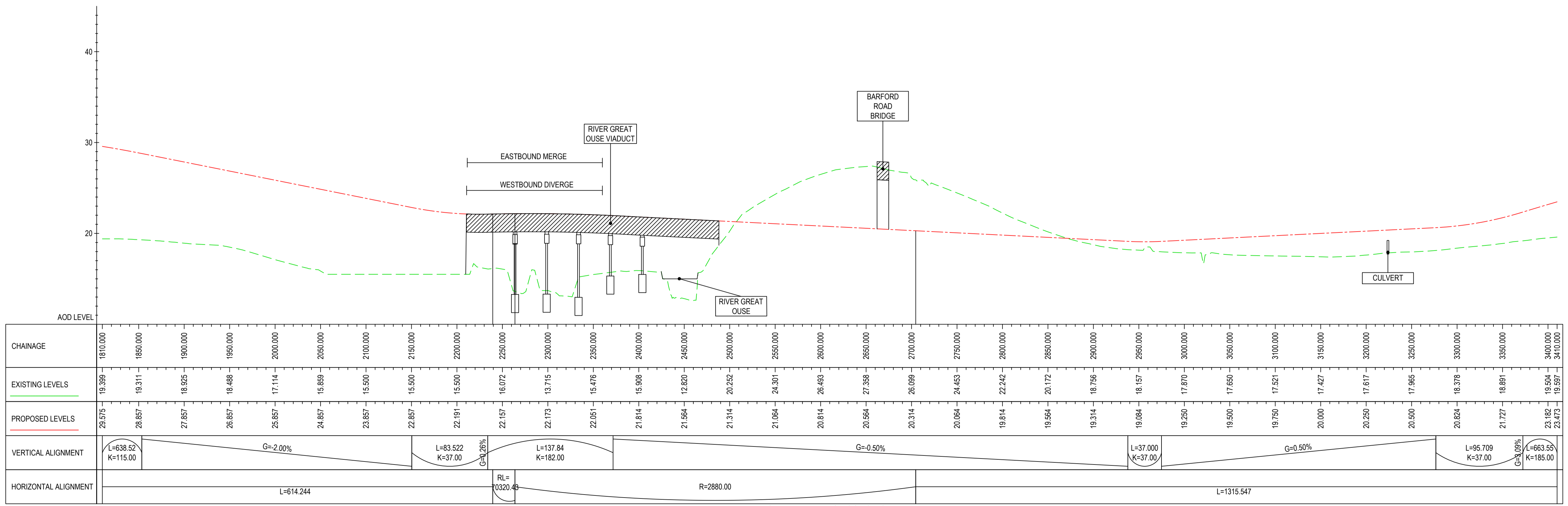
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Purpose of issue
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Highways England
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Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

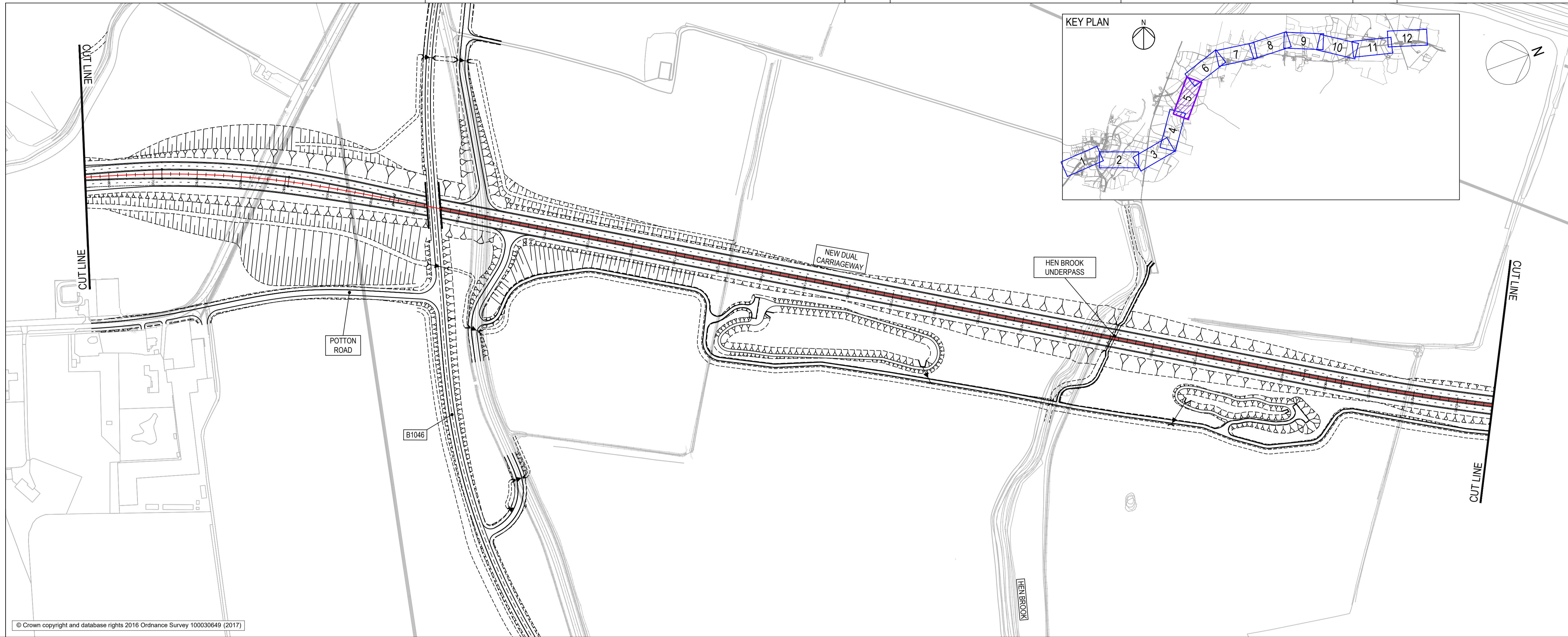
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PLAN AND PROFILE SHEET 2 OF 12

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Scale @ A1	Subsidiary S2	Zone General	

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Project Title

A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

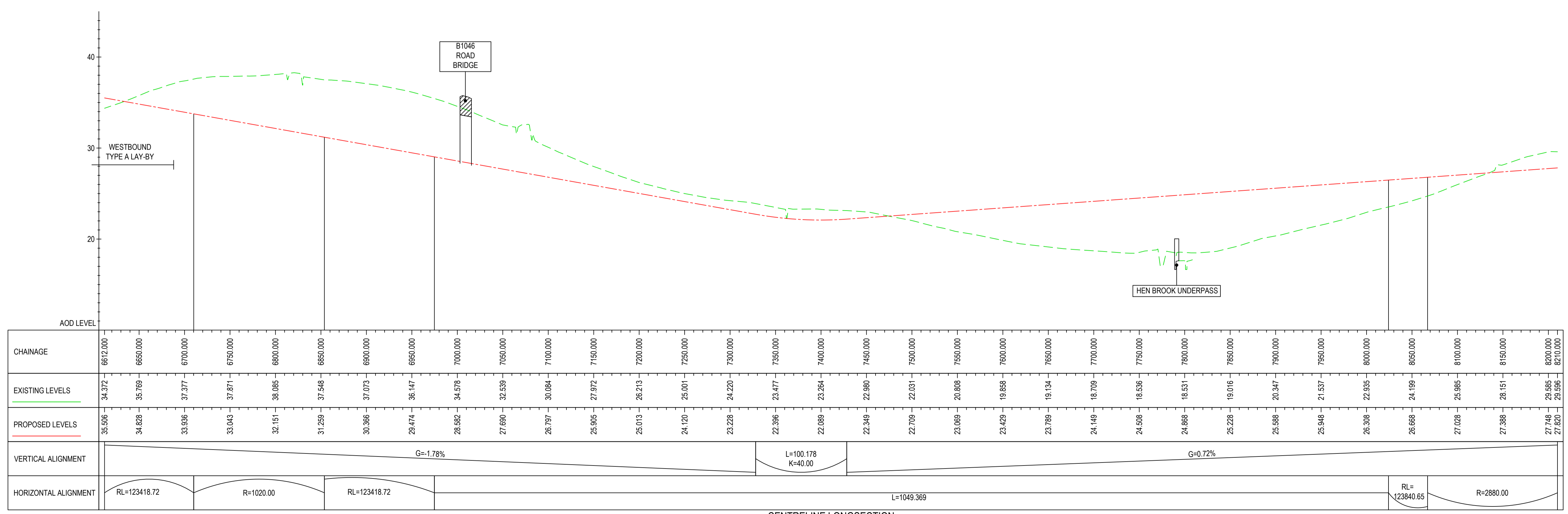
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PLAN AND PROFILE SHEET 5 OF 12

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Internal Project No. 60541541		Suitability S2		
Scale @ A1 ---		Zone General		

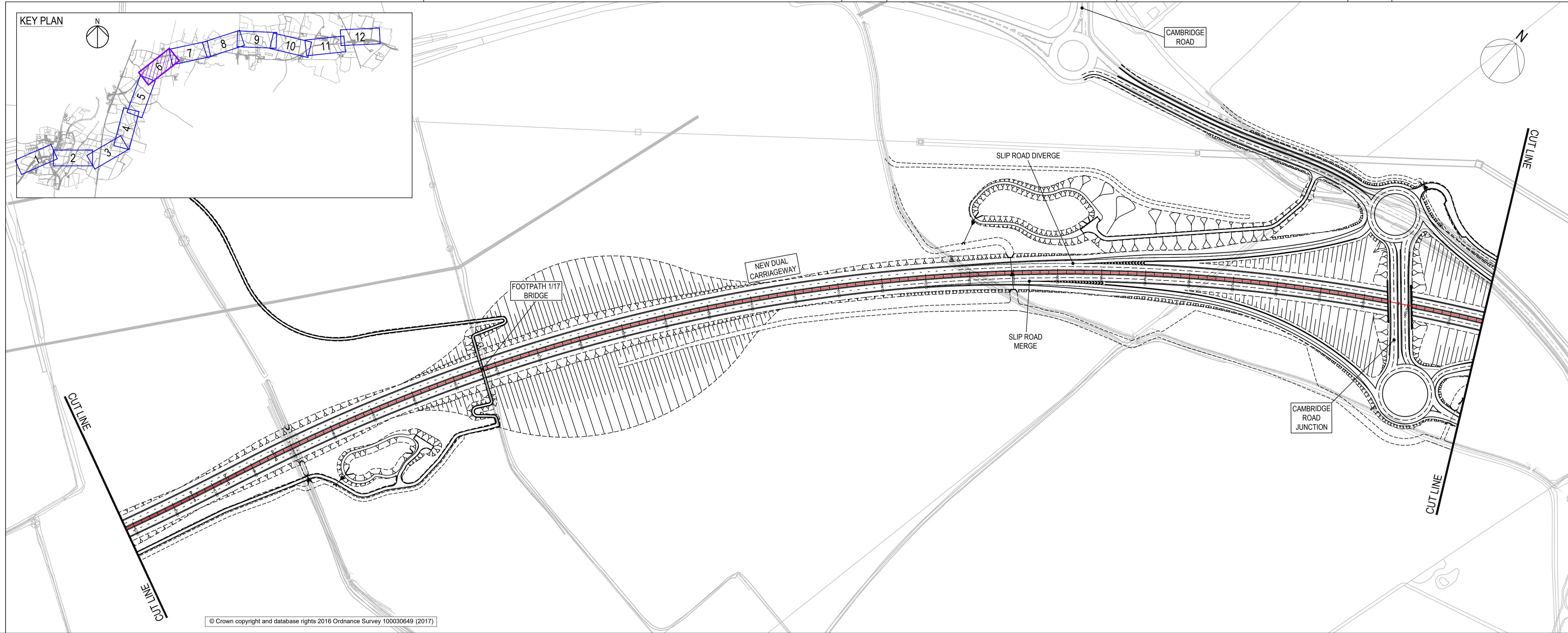
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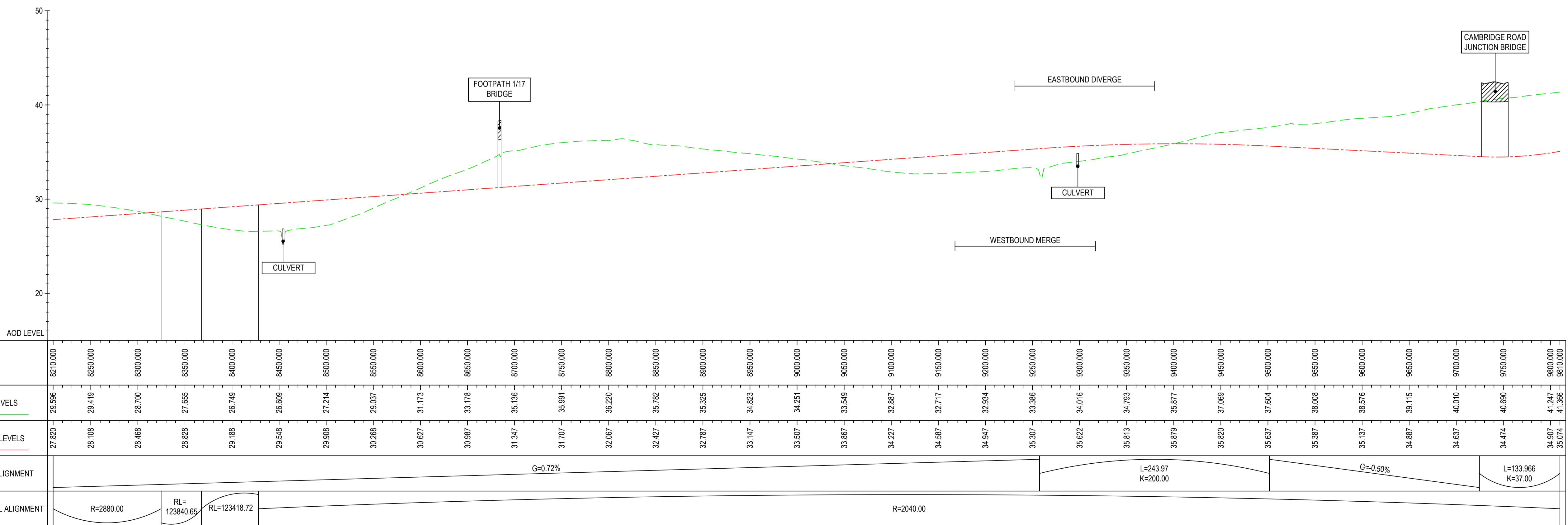
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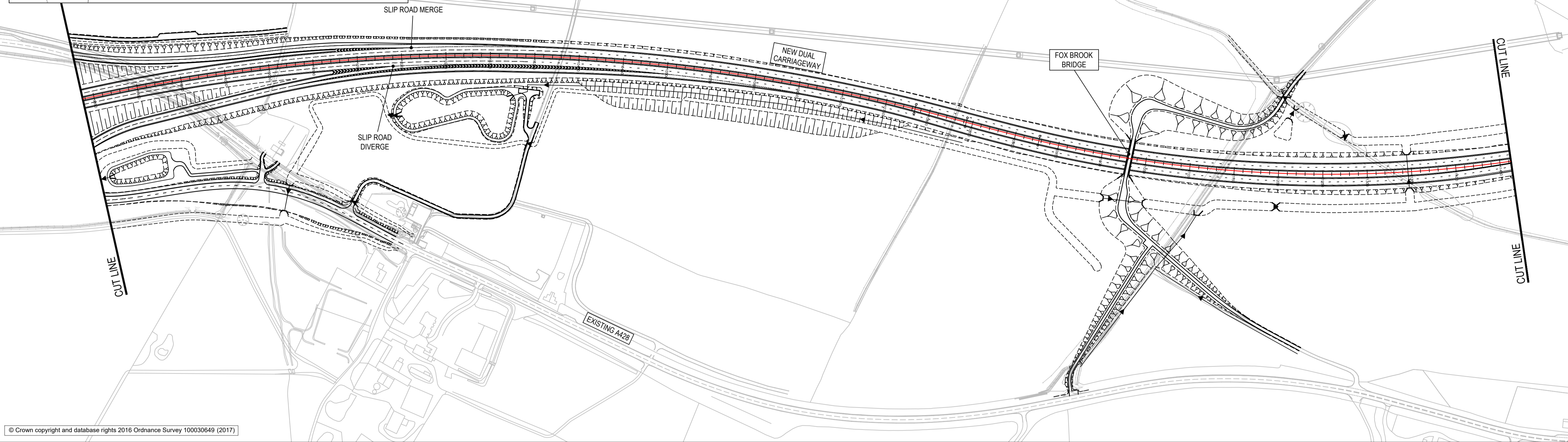
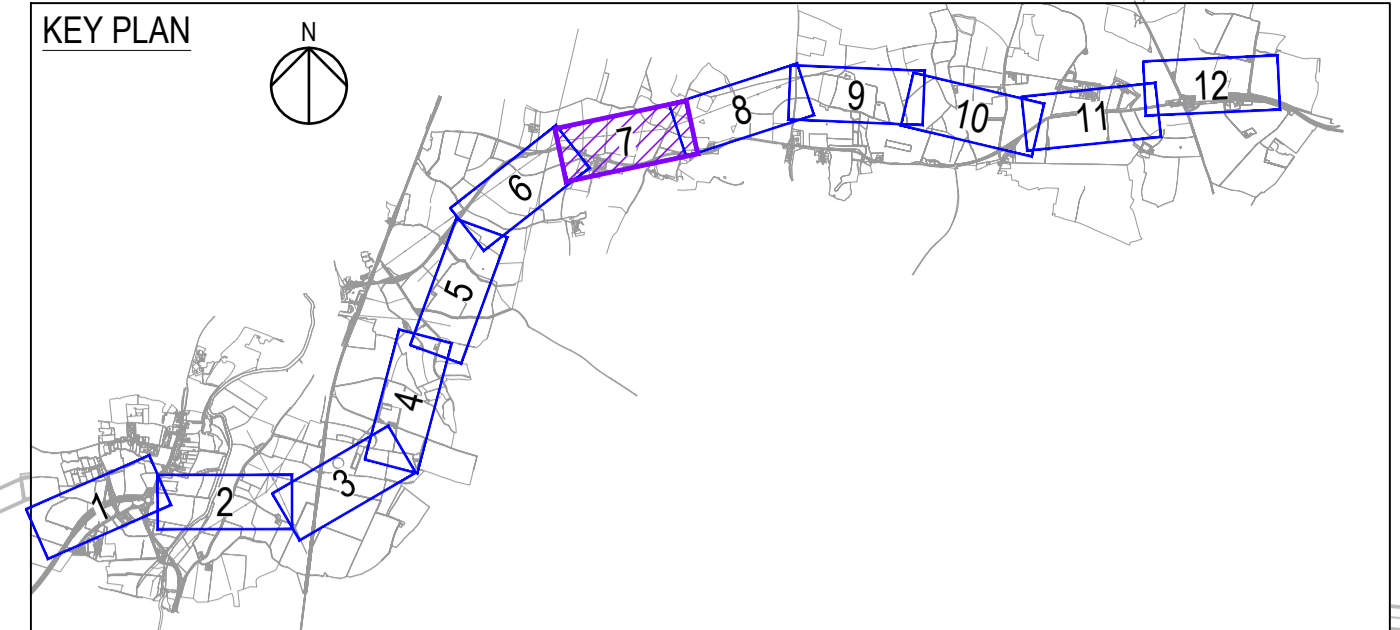
PLAN AND PROFILE SHEET 6 OF 12

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Suitability S2	Scale @ A1 Zone General		

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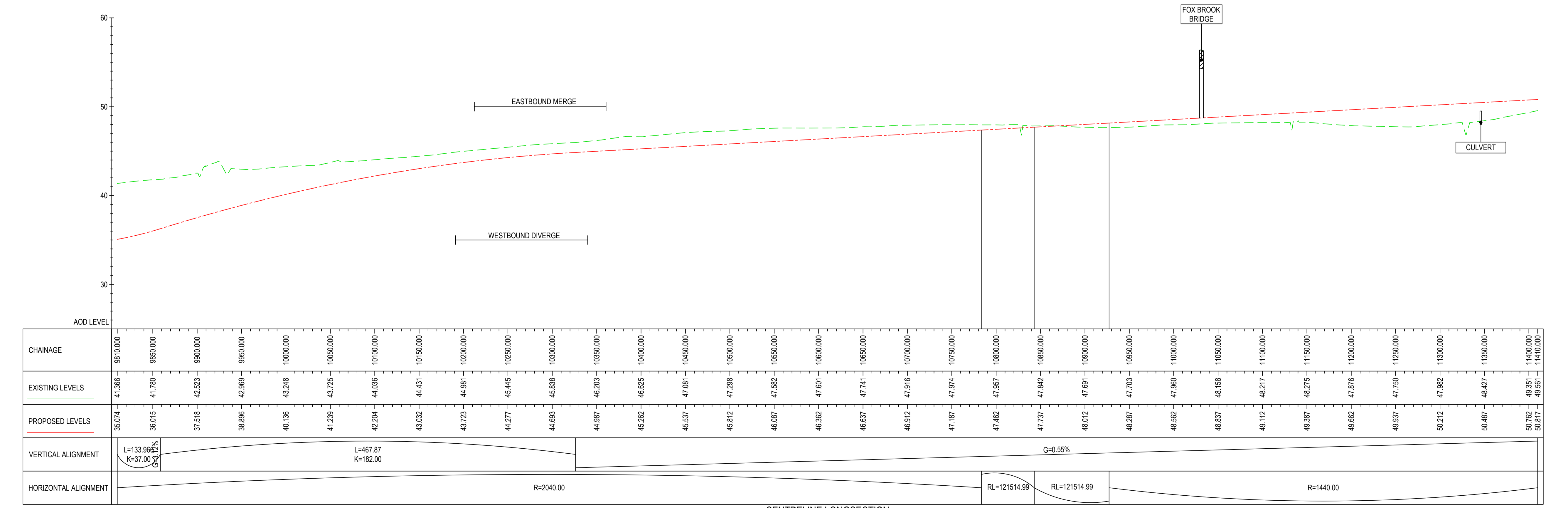
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SCALE: H 1:2500, V 1:250

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Revision Details	By	Date	Suffix
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Purpose of issue
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Client
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Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

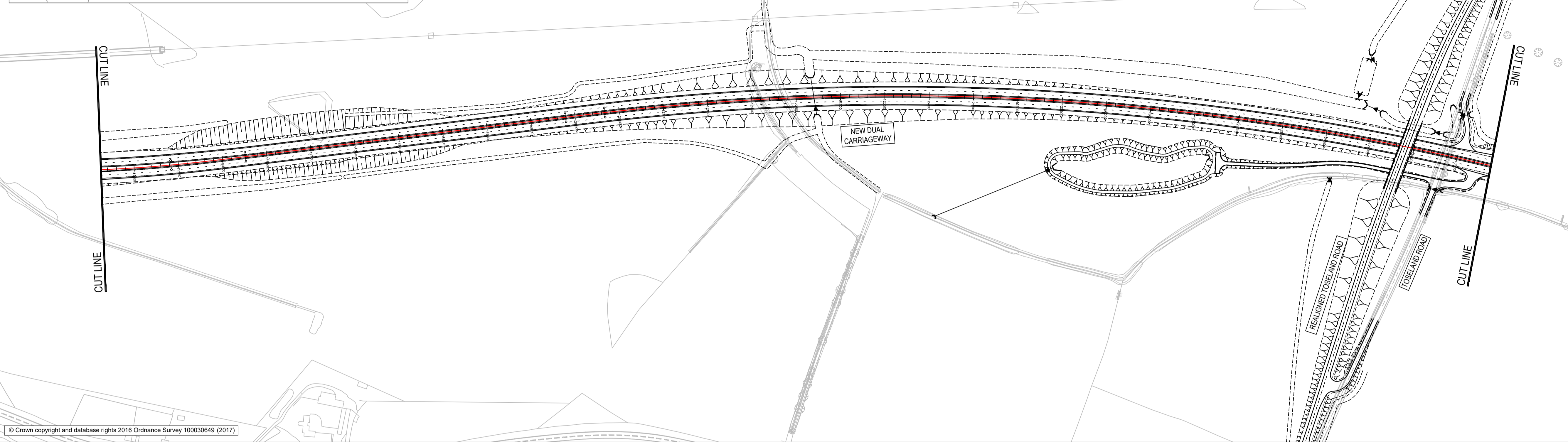
Drawing Title
PLAN AND PROFILE SHEET 7 OF 12

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
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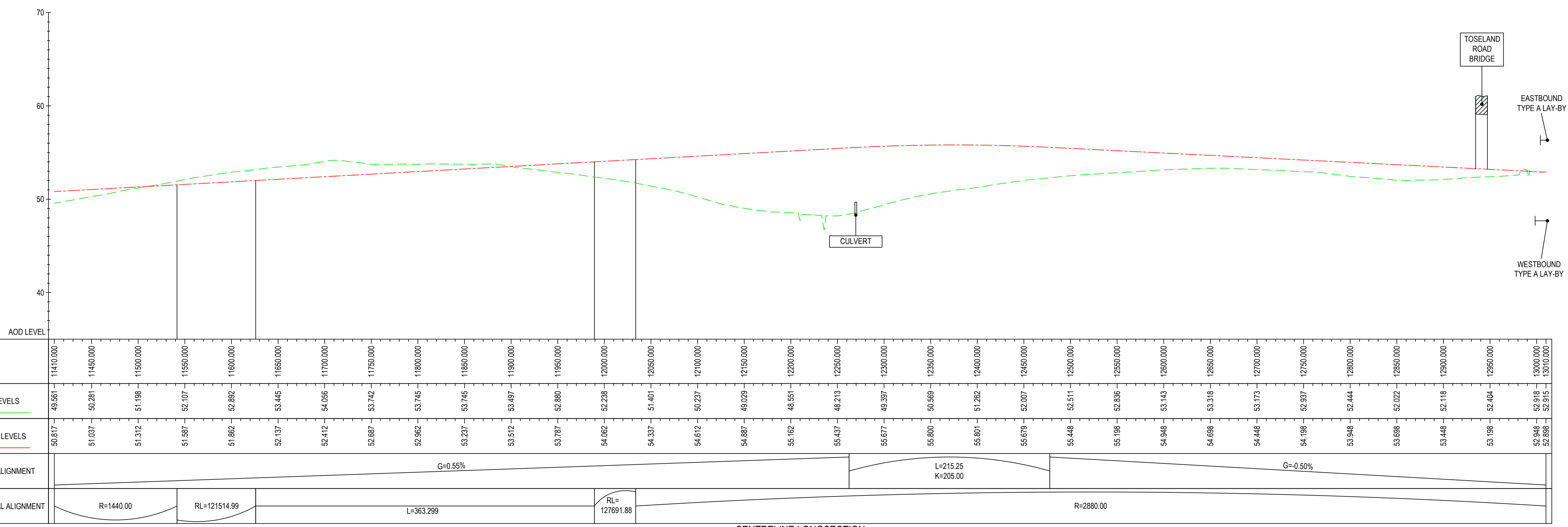
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Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

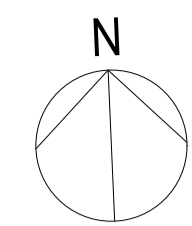
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PLAN AND PROFILE SHEET 8 OF 12

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Subsidiary S2		Zone General	

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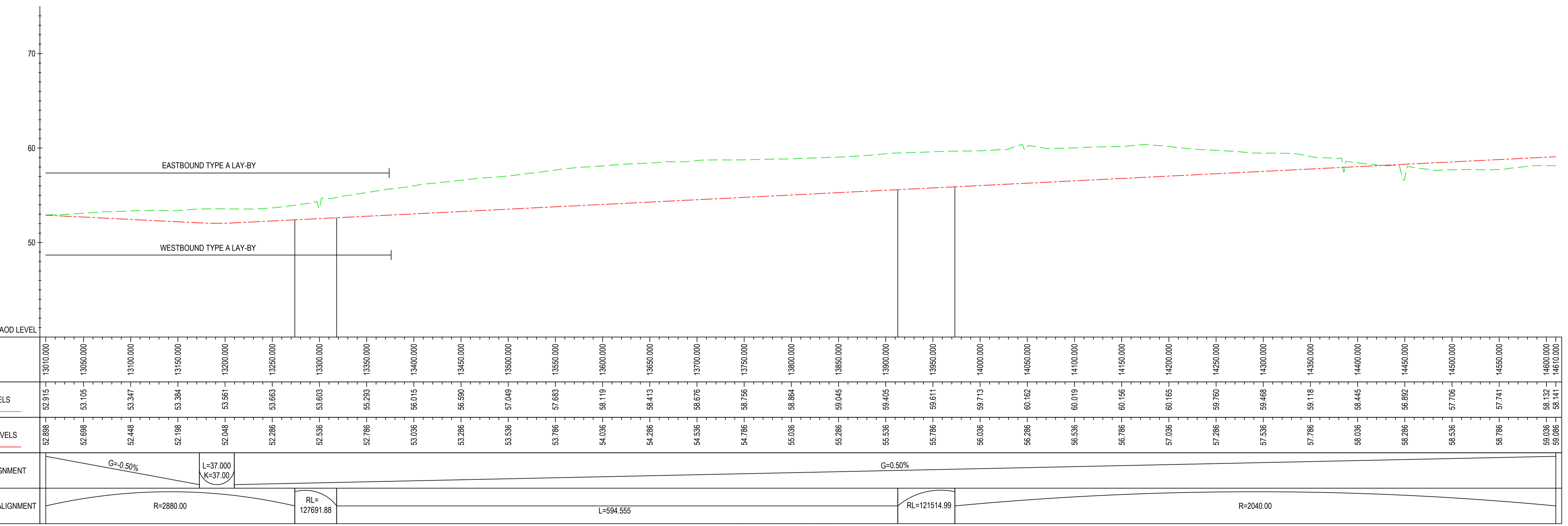


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**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

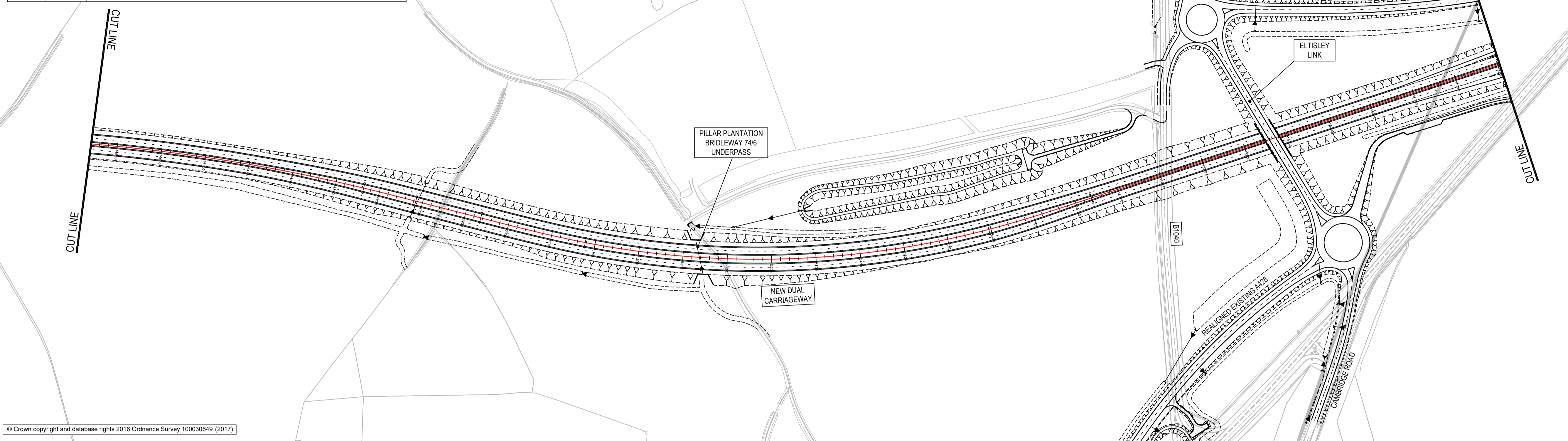
**PLAN AND PROFILE
SHEET 9 OF 12**

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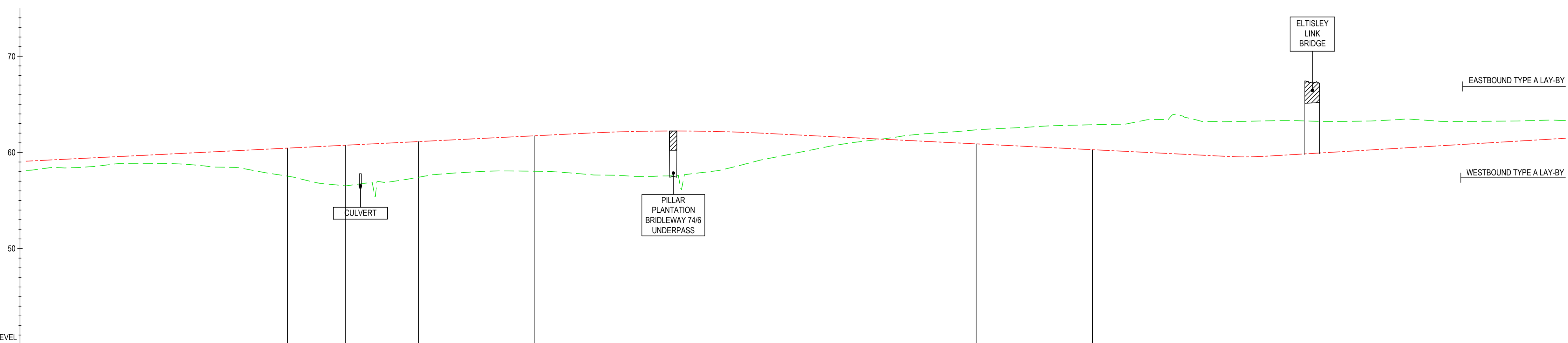
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CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
14610.000	58.141	59.086	G=0.50%	R=2040.00
14650.000	58.384	59.286		
14700.000	58.766	59.536	G=0.50%	RL=121514.99
14750.000	58.843	59.786		
14800.000	58.555	60.036	L=75.634	RL=121514.99
14850.000	58.063	60.286		
14900.000	57.129	60.536	L=182.00 K=182.00	R=1020.00
14950.000	56.622	60.786		
15000.000	57.112	61.036	G=0.50%	RL=121514.99
15050.000	57.815	61.286		
15100.000	58.070	61.536	L=40.700 K=37.00	RL=121514.99
15150.000	58.022	61.786		
15200.000	57.663	62.034	G=0.50%	L=1513.992
15250.000	57.477	62.196		
15300.000	57.753	62.220	G=0.50%	L=1513.992
15350.000	58.591	62.101		
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15450.000	60.779	61.624		
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15700.000	62.830	60.374	G=0.50%	L=1513.992
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CENTRELINE LONGSECTION
SCALE: H 1:2500, V 1:250

For Statutory Consultation	JMW	22/05/19	PO1
Revision Details	By TD	Date	Suffix
Purpose of issue	Check		

FOR INFORMATION

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Highways England
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Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of
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**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

**PLAN AND PROFILE
SHEET 10 OF 12**

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Suitability S2	Scale @ A1 Zone General		

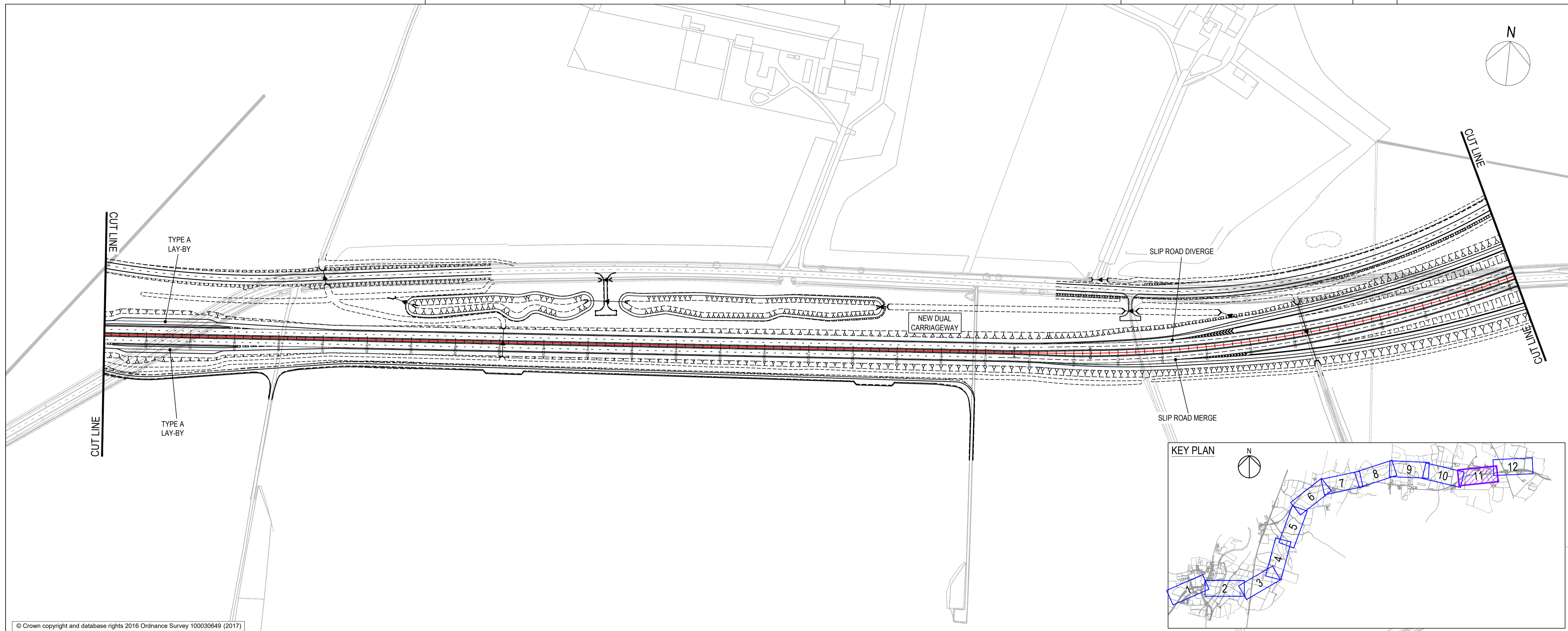
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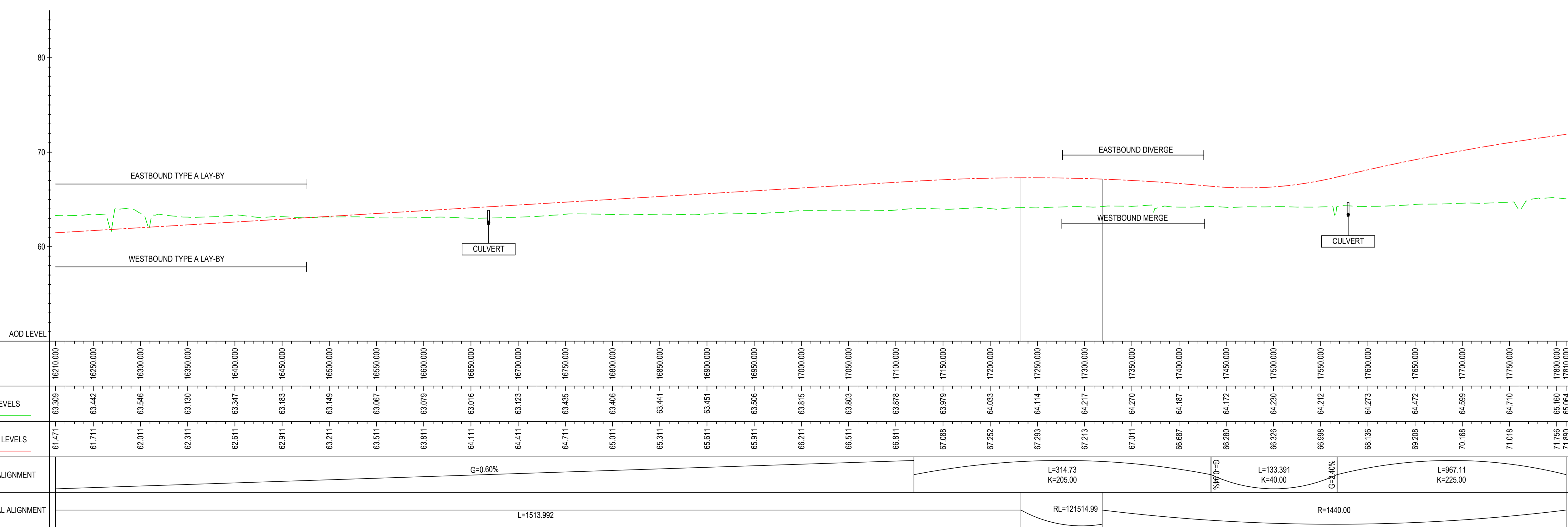
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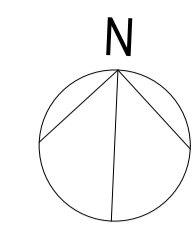
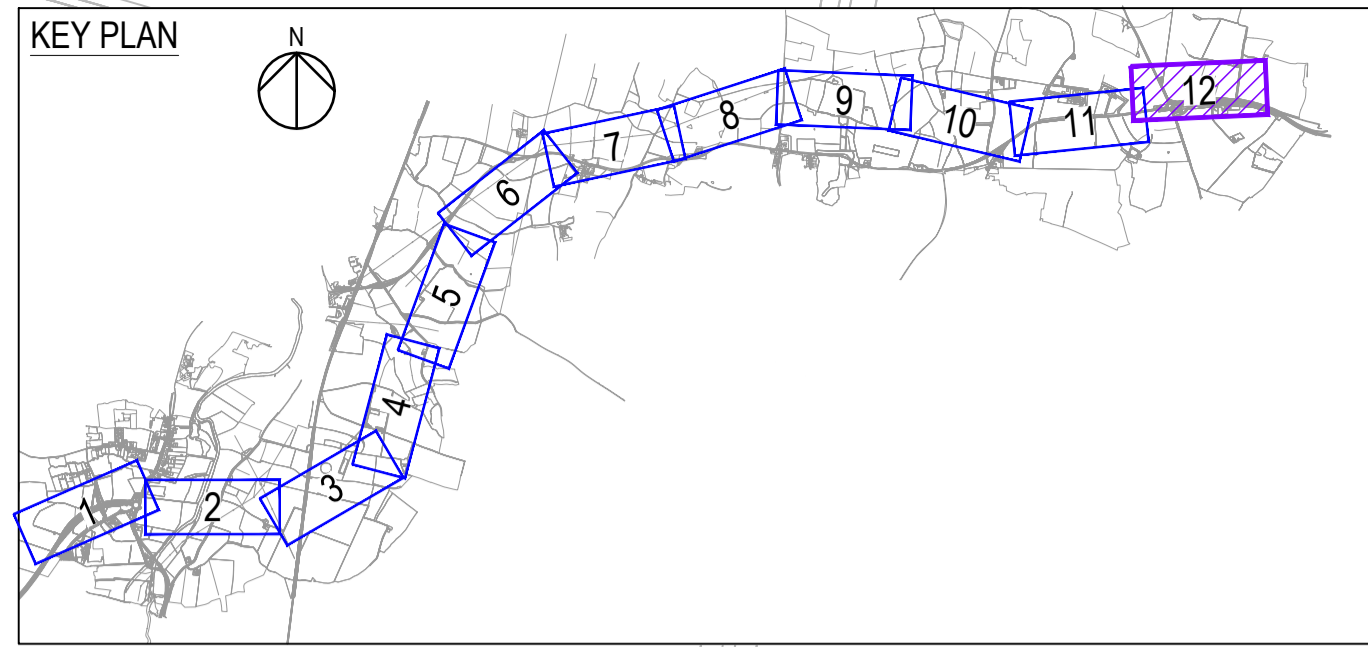
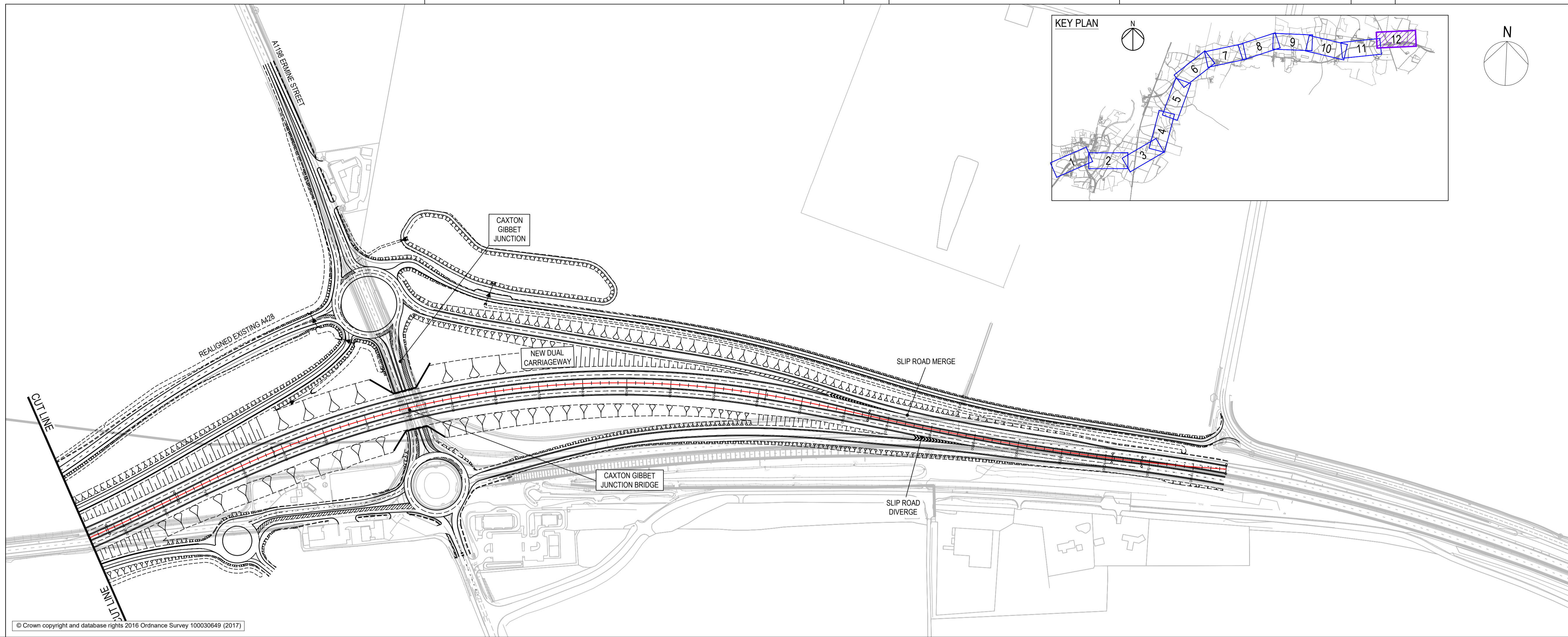
Drawing Title
PLAN AND PROFILE SHEET 11 OF 12

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Drawing Number HE551495 - ACM - HML - GEN_ML_Z_ZZ - DR - CH-0011	1 Originator	1 Volume	Rev P01
Location	I Type	I Role	I Number

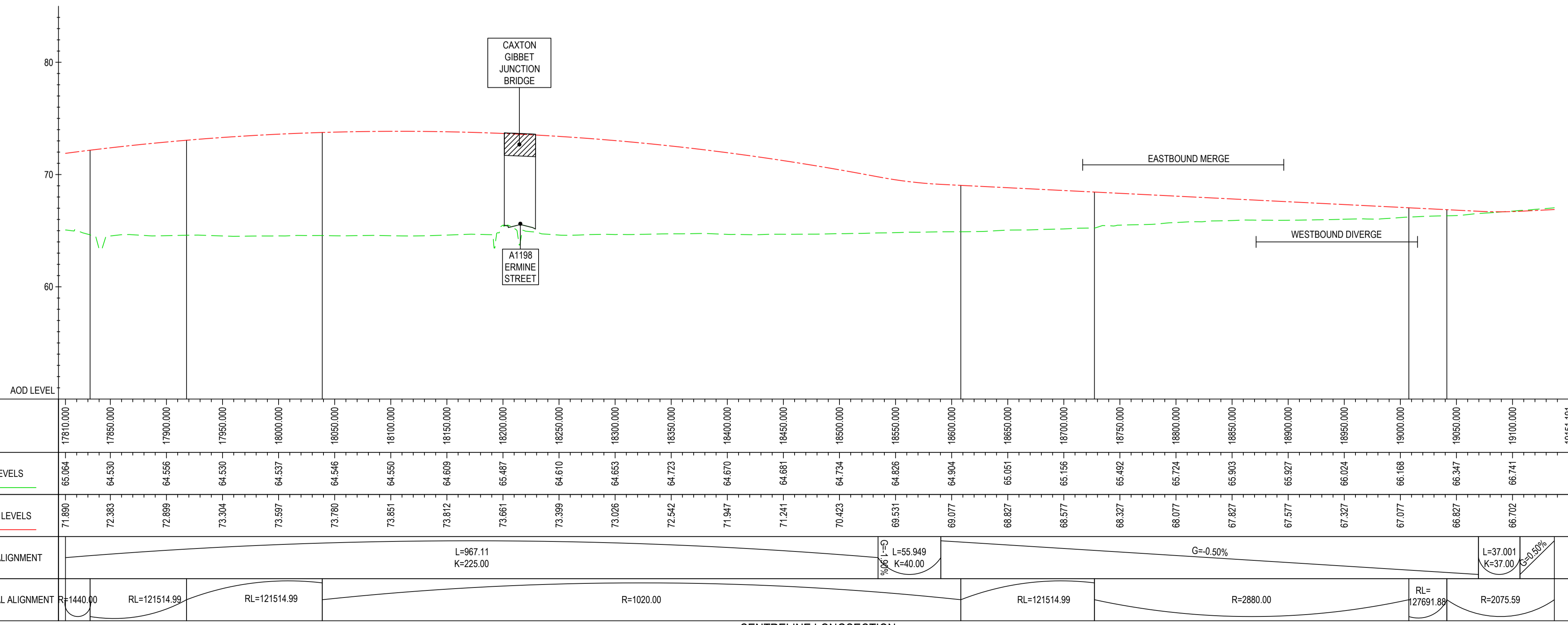
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- NOTES**
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.

- KEY**
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT
 - DITCH

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CENTRELINE LONGSECTION
SCALE: H 1:2500, V 1:250

For Statutory Consultation	JMW	22/05/19	P01
Revision Details	By	Date	Suffix
	Check		

FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW



**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

**PLAN AND PROFILE
SHEET 12 OF 12**

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Subsidiary S2	Scale @ A1 General		

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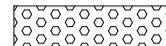


Drawing Number HE551495 -ACM -HML - GEN_ML_Z_ZZ -DR-CH-0012	1 Originator 1 Volume 1 Type 1 Role 1 Number	Rev P01
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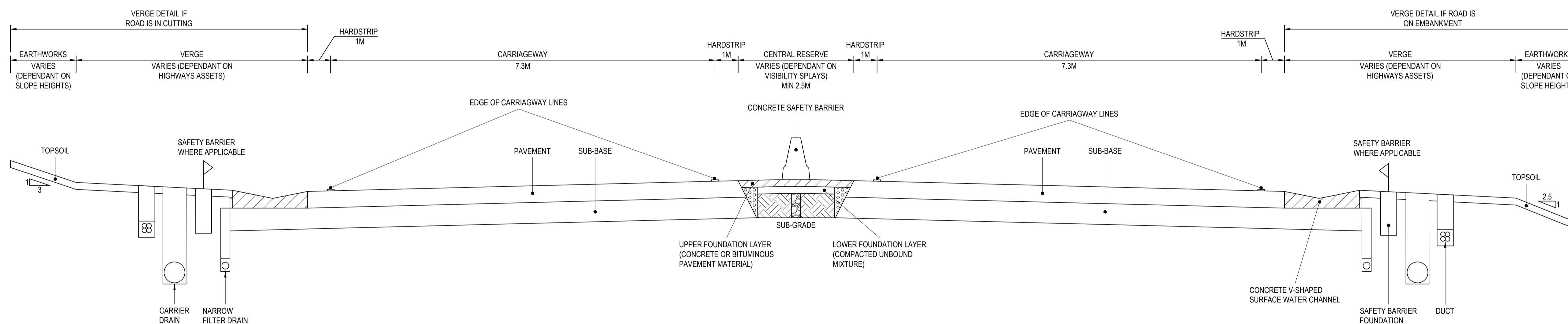
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KEY

	CONCRETE
	FILTER DRAINAGE MATERIAL
	FILL MATERIAL
	GRANULAR MATERIAL



TYPICAL DUAL CARRIAGWAY
CROSS SECTION
SCALE 1:50

For Statutory Consultation	JMW	22/05/19	P01
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW



Project Title
**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

Drawing Title
**TYPICAL
DUAL CARRIAGWAY
CROSS SECTION**

Designed JMW	Drawn JMW	Checked PS	Approved TD	Date 22/05/19
Internal Project No. 60541541	Suitability S2	Zone General		

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Drawing Number HE551495 -ACM -HML - GEN_ML_Z_ZZ -DR-CH-0013	1 Originator 1 Volume	Rev P01
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