

# **A46 Newark Bypass**

**TR010065/APP/2.6**

## **2.6 Engineering Plans and Sections Part 1 – Typical Cross Sections**

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

April 2024

Infrastructure Planning

Planning Act 2008

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

**A46 Newark Bypass**

Development Consent Order 202[x]

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**Engineering Plans and Sections**

**Part 1 – Typical Cross Sections**

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<b>Regulation Number:</b>	Regulation 5(2)(o), 5(2)(p) and 6(2)
<b>Planning Inspectorate Scheme Reference</b>	TR010065
<b>Application Document Reference</b>	TR010065/APP/2.6
<b>Author:</b>	A46 Newark Bypass Project Team, National Highways

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 1	April 2024	DCO Application

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# 1 Introduction

## 1.1 General

1.1.1 These Engineering Plans and Sections (these “Plans”) relate to an application made by National Highways (the “Applicant”) to the Secretary of State for Transport via the Planning Inspectorate (the “Inspectorate”) under the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO). If made, the DCO would grant consent for the A46 Newark Bypass (the “Scheme”). A detailed description of the Scheme can be found in Chapter 2 (The Scheme) of the Environmental Statement (ES) (TR010065/APP/6.1).

1.1.2 These Plans forms part of a suite of application documents and is included in the application in compliance with Regulation 5(2)(o), 5(2)(p) and 6(2) of the Infrastructure Planning (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 water 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 through which it would pass’.*

- 1.1.3 As these Plans are part of the application documentation they should be read alongside and are informed by the other application documents, in particular the draft DCO (TR010065/APP/3.1), the Works Plans (TR010065/APP/2.3) and the General Arrangement Plans (TR010065/APP/2.5).

## 2 Schedule of Plans Included in this Application Document

Drawing Number	Drawing Title	Version
<b>PART 1 – TYPICAL CROSS SECTIONS</b>		
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26100	Typical Cross Sections – Key Plan	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26106	Typical Cross Sections – Sheet 1 of 4	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26107	Typical Cross Sections – Sheet 2 of 4	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26108	Typical Cross Sections – Sheet 3 of 4	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26109	Typical Cross Sections – Sheet 4 of 4	C02
<b>PART 2 – PLAN AND PROFILES</b>		
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26200	Plan and Profiles – Key Plan	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26201	Plan and Profiles – Sheet 1 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26202	Plan and Profiles – Sheet 2 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26203	Plan and Profiles – Sheet 3 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26204	Plan and Profiles – Sheet 4 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26205	Plan and Profiles – Sheet 5 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26206	Plan and Profiles – Sheet 6 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26207	Plan and Profiles – Sheet 7 of 37	C02

HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26208	Plan and Profiles – Sheet 8 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26209	Plan and Profiles – Sheet 9 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26210	Plan and Profiles – Sheet 10 of 37	C02
<b>PART 3 – PLAN AND PROFILES</b>		
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26220	Plan and Profiles – Sheet 11 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26230	Plan and Profiles – Sheet 12 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26231	Plan and Profiles – Sheet 13 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26232	Plan and Profiles – Sheet 14 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26233	Plan and Profiles – Sheet 15 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26240	Plan and Profiles – Sheet 16 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26241	Plan and Profiles – Sheet 17 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26242	Plan and Profiles – Sheet 18 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26250	Plan and Profiles – Sheet 19 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26260	Plan and Profiles – Sheet 20 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26261	Plan and Profiles – Sheet 21 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26262	Plan and Profiles – Sheet 22 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26263	Plan and Profiles – Sheet 23 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26270	Plan and Profiles – Sheet 24 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26271	Plan and Profiles – Sheet 25 of 37	C02
<b>PART 4 – PLAN AND PROFILES</b>		
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HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26282	Plan and Profiles – Sheet 28 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26283	Plan and Profiles – Sheet 29 of 37	C02
HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26284	Plan and Profiles – Sheet 30 of 37	C02
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HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26291	Plan and Profiles – Sheet 37 of 37	C02
<b>PART 5 – DRAINAGE ENGINEERING PLANS</b>		
HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26300	Drainage Engineering Plans – Key Plan	C02
HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26301	Drainage Engineering Plans – Sheet 1 of 7	C02
HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26302	Drainage Engineering Plans – Sheet 2 of 7	C02
HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26303	Drainage Engineering Plans – Sheet 3 of 7	C02
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HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26306	Drainage Engineering Plans – Sheet 6 of 7	C02
HE551478-SKAG-HDG-CONWI_CONW-DR-CD-26307	Drainage Engineering Plans – Sheet 7 of 7	C02
<b>PART 6 – STRUCTURES GENERAL ARRANGEMENTS</b>		
HE551478-SKAG-SBR-SECT1_B02N-DR-CB-26001	Structures General arrangements – Sheet 1 of 12	C03
HE551478-SKAG-SBR-SECT1_B03N-DR-CB-26001	Structures General arrangements – Sheet 2 of 12	C03

HE551478-SKAG-SBR-SECT1_B04N-DR-CB-26001	Structures General arrangements – Sheet 3 of 12	C03
HE551478-SKAG-SBR-SECT1_B05N-DR-CB-26001	Structures General arrangements – Sheet 4 of 12	C03
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HE551478-SKAG-SBR-SECT1_B07E-DR-CB-26001	Structures General arrangements – Sheet 6 of 12	C03
HE551478-SKAG-SBR-SECT1_B08N-DR-CB-26001	Structures General arrangements – Sheet 7 of 12	C03
HE551478-SKAG-SBR-SECT1_B09N-DR-CB-26001	Structures General arrangements – Sheet 8 of 12	C03
HE551478-SKAG-SBR-SECT1_B09N-DR-CB-26002	Structures General arrangements – Sheet 9 of 12	C02
HE551478-SKAG-SBR-SECT1_B11N-DR-CB-26001	Structures General arrangements – Sheet 10 of 12	C03
HE551478-SKAG-SBR-SECT1_B13N-DR-CB-26001	Structures General arrangements – Sheet 11 of 12	C03
HE551478-SKAG-SBR-SECT1_B17N-DR-CB-26001	Structures General arrangements – Sheet 12 of 12	C03



**NOTES**  
 1. THE PURPOSE OF THIS DRAWING IS TO SUPPORT THE A46 NEWARK BYPASS DEVELOPMENT CONSENT ORDER (DCO) AND ACCOMPANYING APPLICATION DOCUMENTATION. (TR010065/APP/3.1).

- KEY:**
- ORDER LIMITS
  - DESIGN LAYOUT
  - LAND NOT INCLUDED IN ORDER LIMITS
  - CROSS SECTION LOCATION

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REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	APPD
CLIENT					



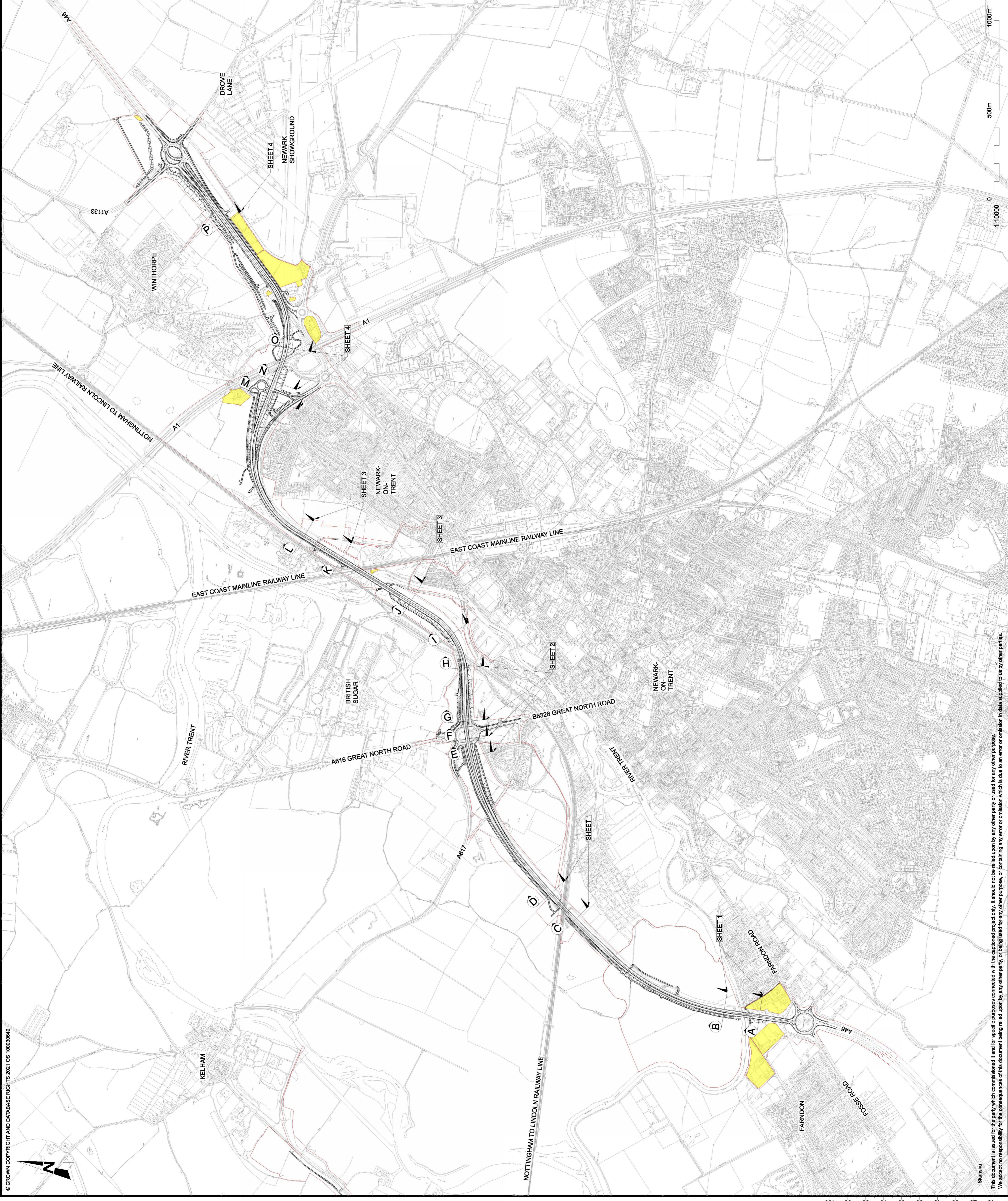
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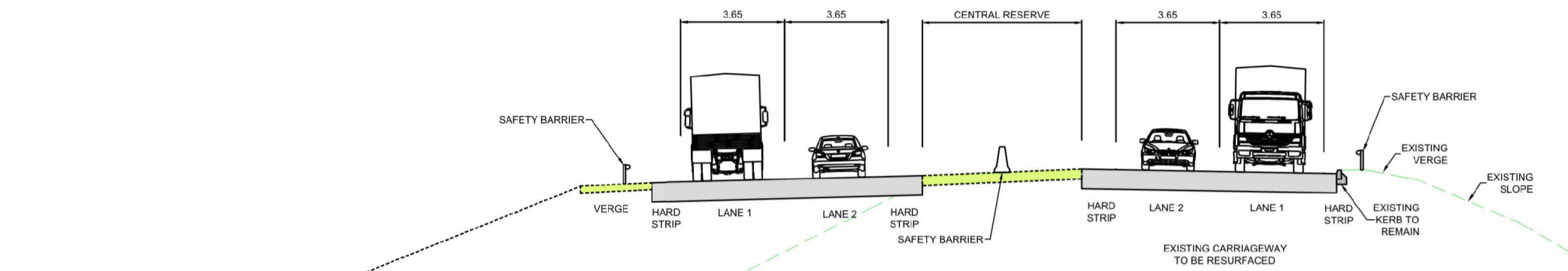
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PROJECT TITLE  
 A46 NEWARK BYPASS

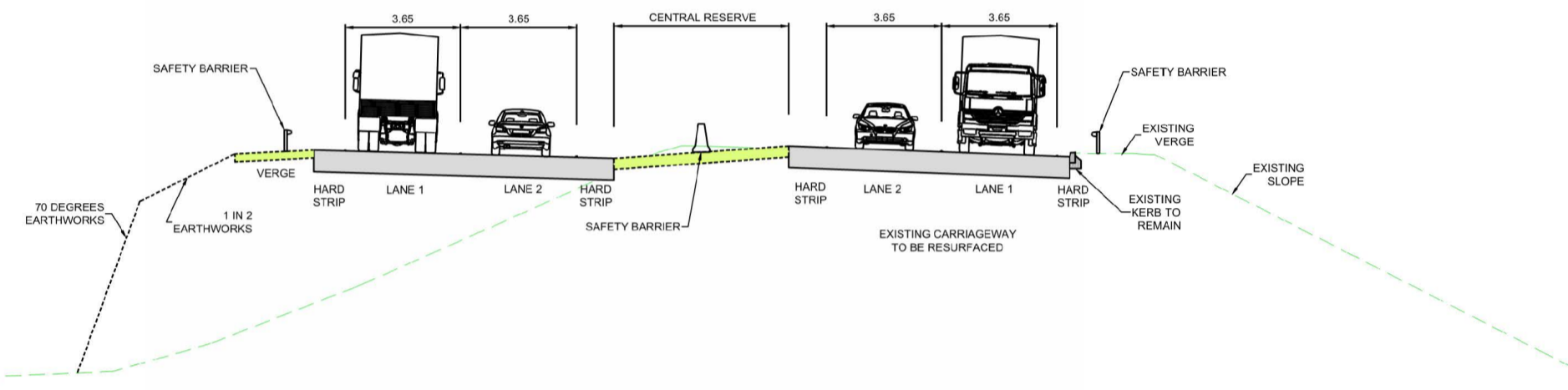
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 TYPICAL CROSS SECTIONS - KEY PLAN

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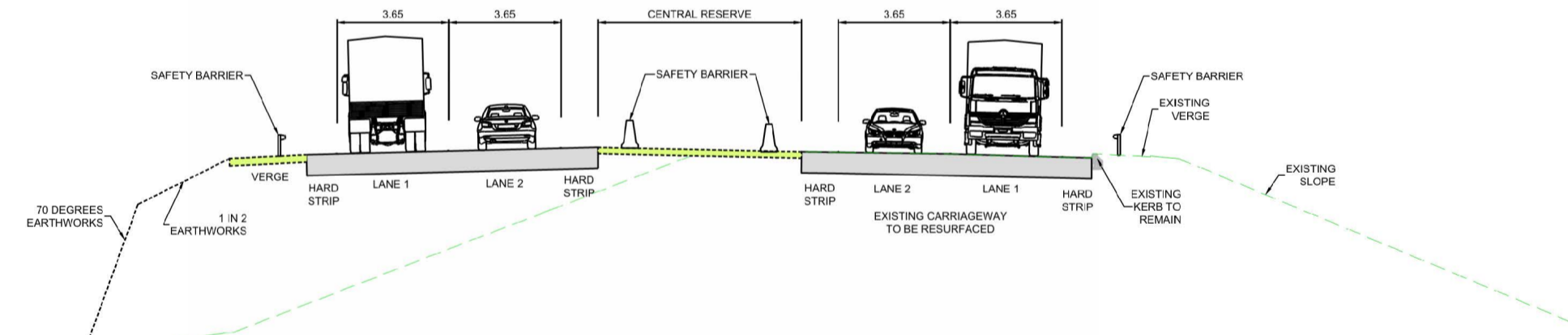




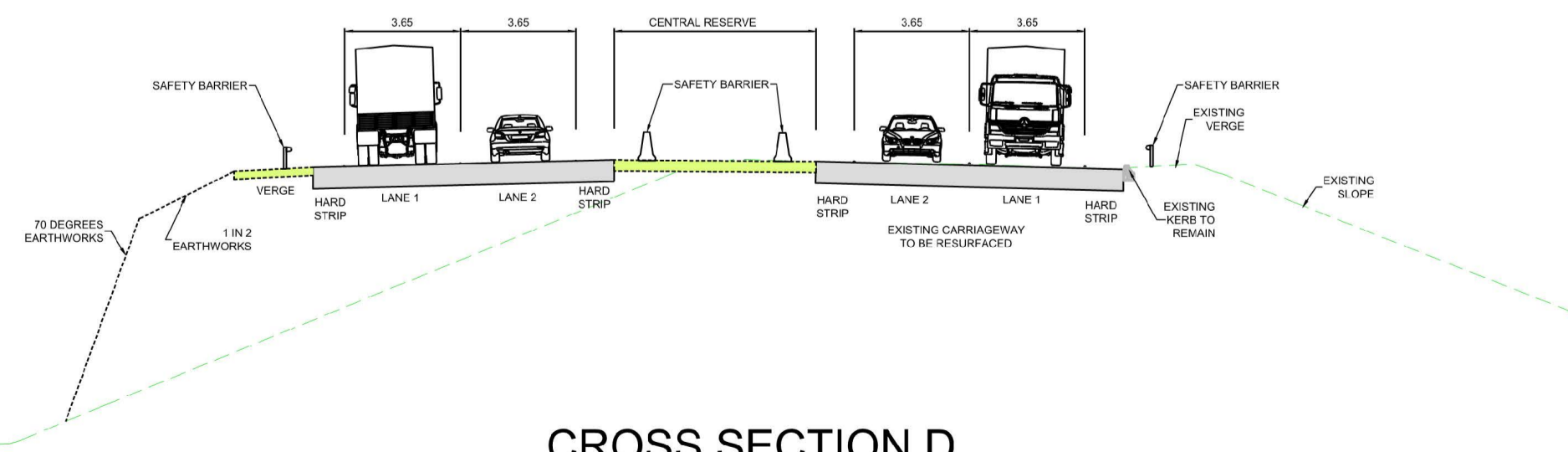
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**CROSS SECTION C**  
DUAL CARRIAGEWAY TO THE SOUTH OF THE NOTTINGHAM TO LINCOLN RAILWAY LINE WEST CROSSING



**CROSS SECTION D**  
DUAL CARRIAGEWAY TO THE NORTH OF THE NOTTINGHAM TO LINCOLN RAILWAY LINE WEST CROSSING

**NOTES**

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
3. THE DIMENSIONS AND CROSS SECTIONS SHOWN ON THIS DRAWING ARE TYPICAL AND WILL VARY ACCORDING TO LOCATION.
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS SUBMITTED AS PART OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP).
5. FOR CARRIAGEWAY LEVELS PLEASE REFER TO THE PLAN AND PROFILE DRAWINGS (TR010065/APP/2.6).
6. THE DESIGN SHOWN WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT IN ACCORDANCE WITH THE PROVISIONS OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP/3.1).

**KEY:**

- EXISTING GROUND
- PAVEMENT
- FOOTWAY/ CYCLEWAY
- VERGE / CENTRAL RESERVE
- DESIGN LAYOUT
- EARTHWORKS

C02	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

CLIENT



PURPOSE OF ISSUE  
**DCO APPLICATION**

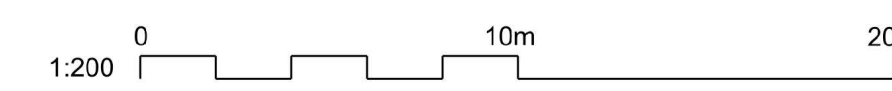
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PROJECT TITLE  
**A46 NEWARK BYPASS**

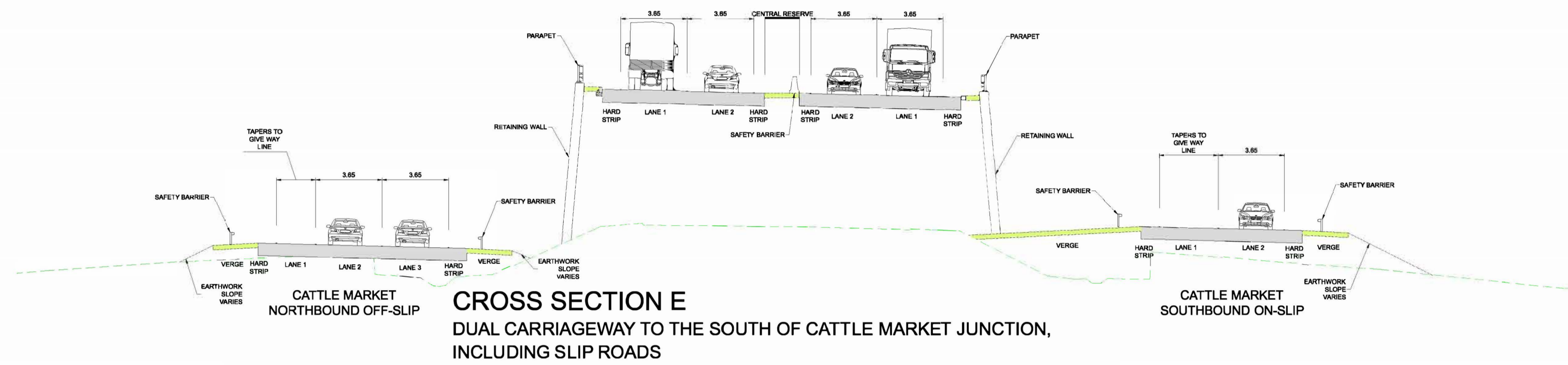
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REGULATION 5(2)(o), 5(2)(p) and 6(2)  
TYPICAL CROSS SECTIONS - SHEET 1 OF 4**

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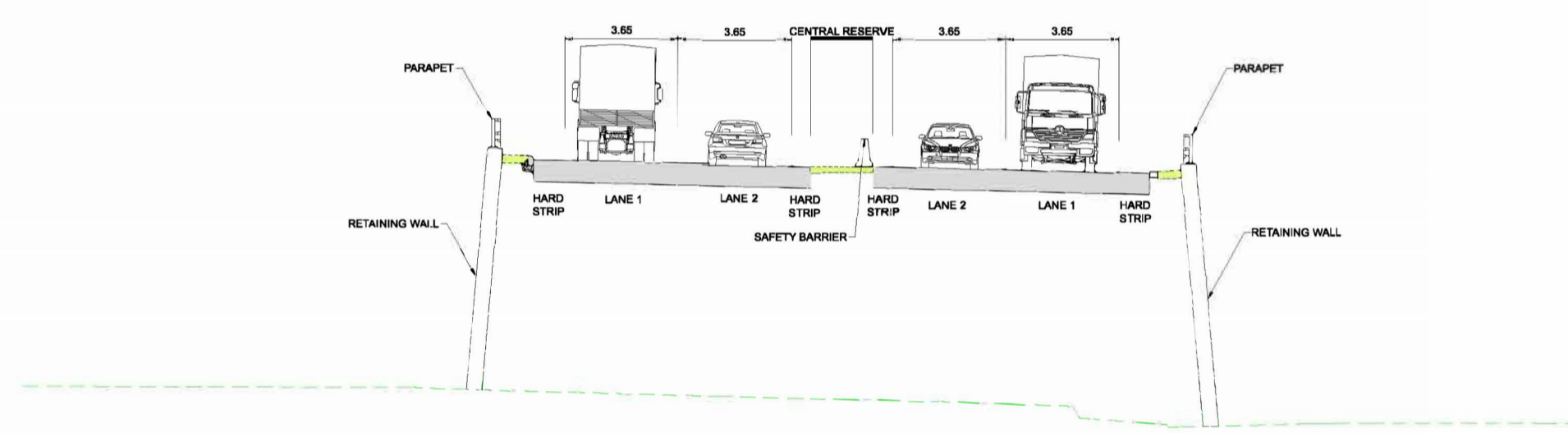
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LOCATION	TYPE	ROLE	NUMBER
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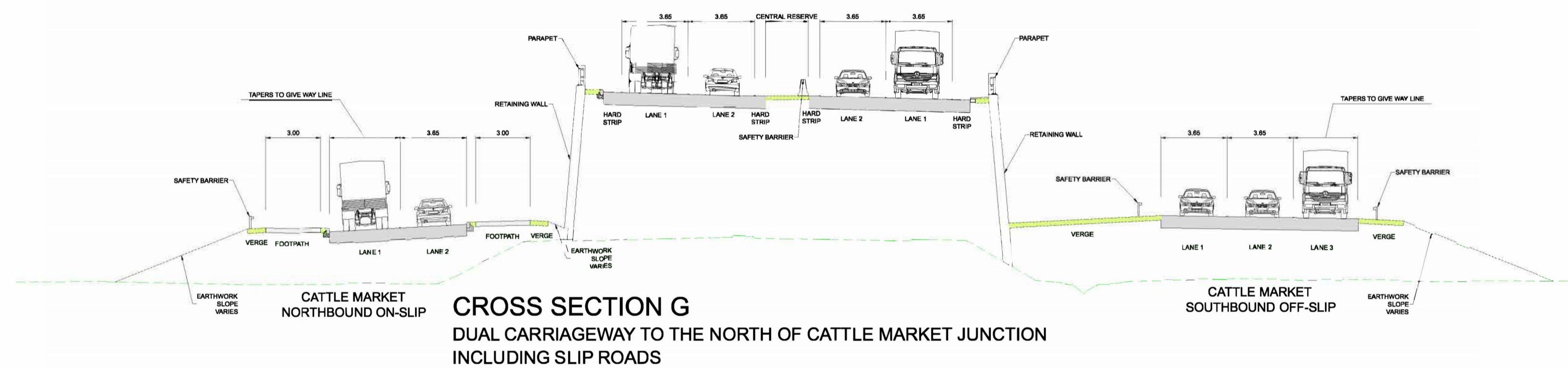
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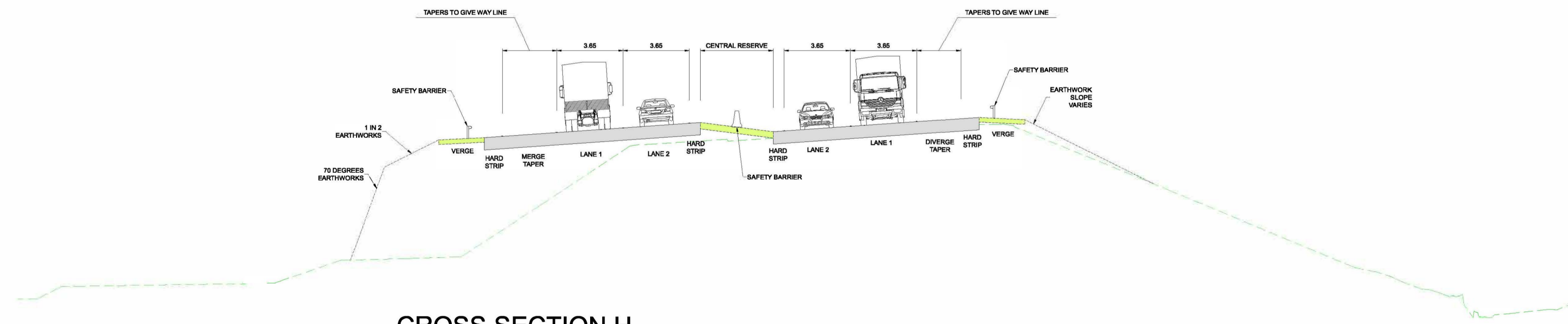
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INCLUDING SLIP ROADS



**CROSS SECTION F**  
DUAL CARRIAGEWAY AT CATTLE MARKET JUNCTION



**CROSS SECTION G**  
DUAL CARRIAGEWAY TO THE NORTH OF CATTLE MARKET JUNCTION  
INCLUDING SLIP ROADS



**CROSS SECTION H**  
DUAL CARRIAGEWAY TO THE SOUTH OF THE NOTTINGHAM TO LINCOLN RAILWAY LINE  
EAST CROSSING

**NOTES**

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
3. THE DIMENSIONS AND CROSS SECTIONS SHOWN ON THIS DRAWING ARE TYPICAL AND WILL VARY ACCORDING TO LOCATION.
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS SUBMITTED AS PART OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP).
5. FOR CARRIAGEWAY LEVELS PLEASE REFER TO THE PLAN AND PROFILE DRAWINGS (TR010065/APP/2.6).
6. THE DESIGN SHOWN WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT IN ACCORDANCE WITH THE PROVISIONS OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP/3.1).

**KEY:**

- EXISTING GROUND
- ▒ PAVEMENT
- ▒ FOOTWAY/ CYCLEWAY
- ▒ VERGE / CENTRAL RESERVE
- DESIGN LAYOUT
- EARTHWORKS

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
C02	11/03/24	Revised for DCO Submission	JK	SC	HF

CLIENT  
**national highways**

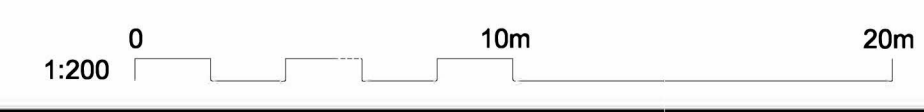
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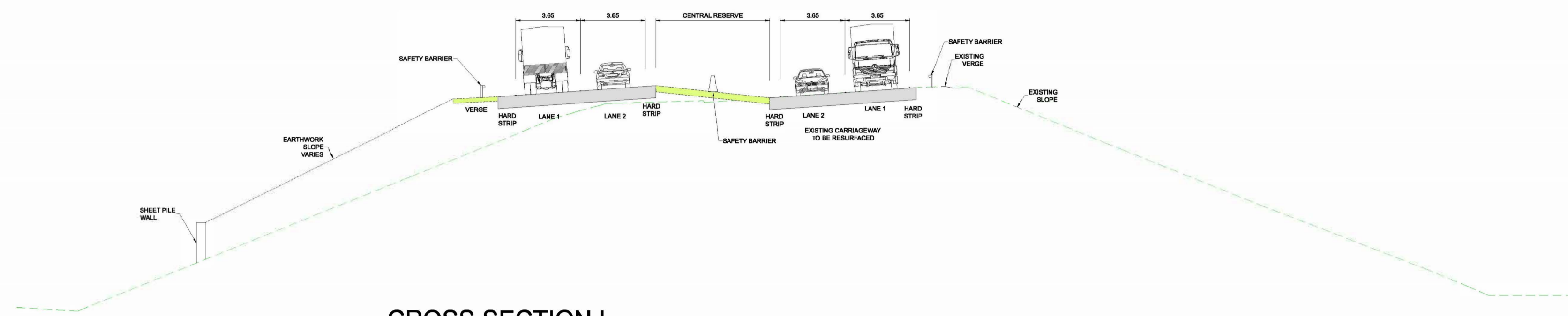
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**TR010065**

PROJECT TITLE  
**A46 NEWARK BYPASS**

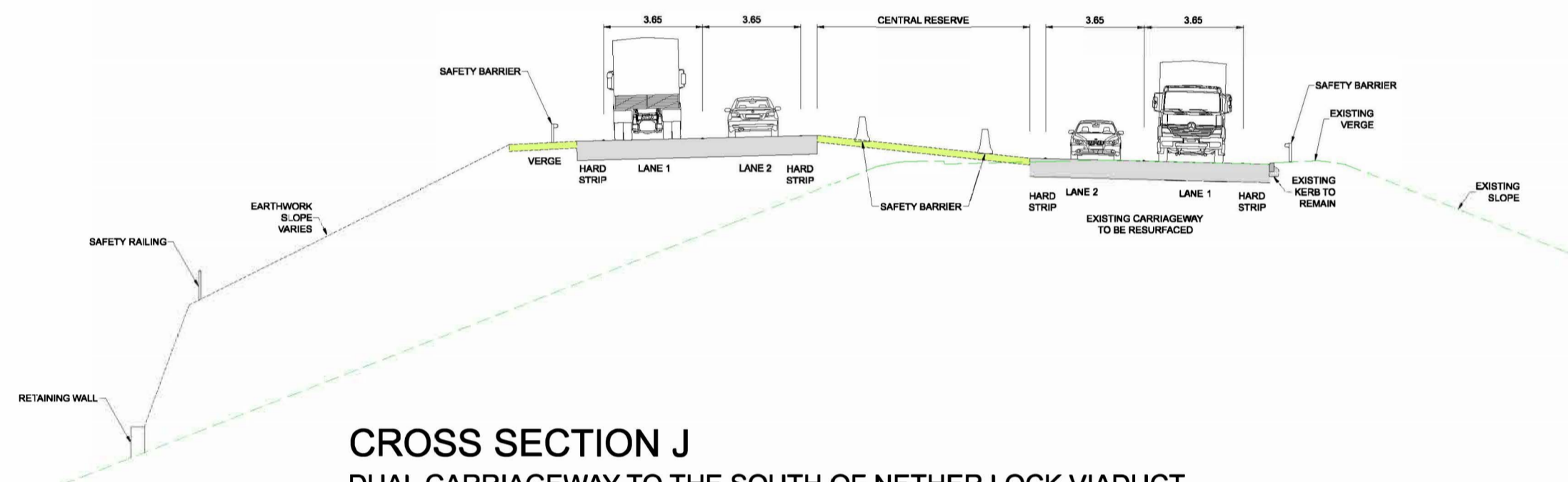
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REGULATION 5(2)(o), 5(2)(p) and 6(2)  
TYPICAL CROSS SECTIONS - SHEET 2 OF 4**

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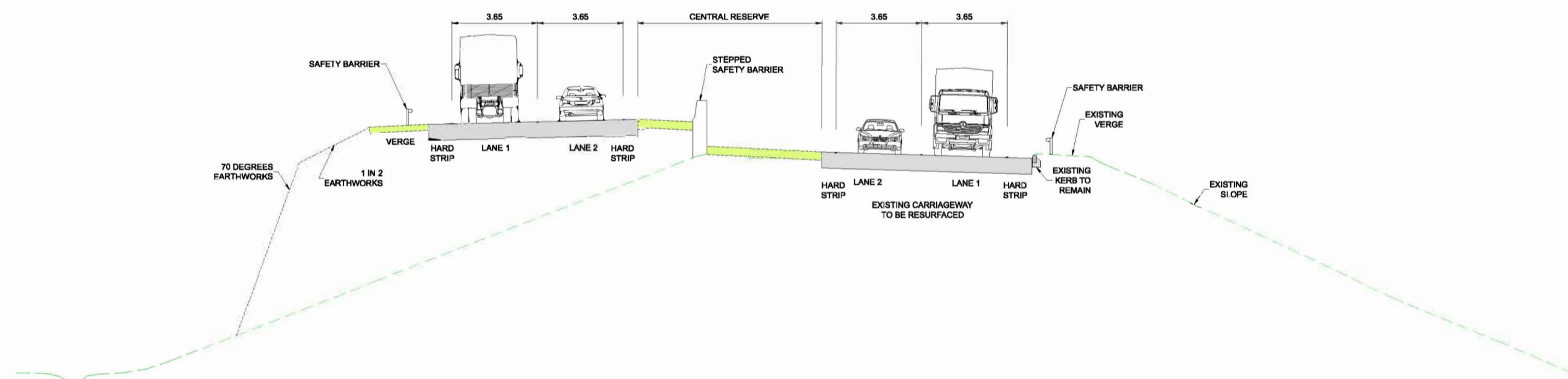




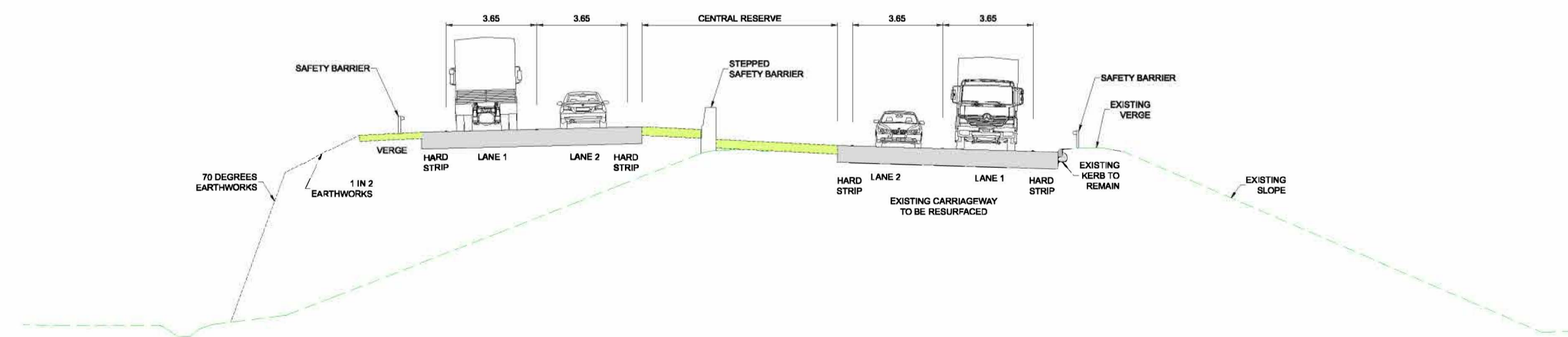
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**CROSS SECTION J**  
DUAL CARRIAGEWAY TO THE SOUTH OF NETHER LOCK VIADUCT



**CROSS SECTION K**  
DUAL CARRIAGEWAY TO THE NORTH OF NETHER LOCK VIADUCT



**CROSS SECTION L**  
DUAL CARRIAGEWAY TO THE NORTH OF THE SEWAGE WORKS UNDERBRIDGE

- NOTES**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
  3. THE DIMENSIONS AND CROSS SECTIONS SHOWN ON THIS DRAWING ARE TYPICAL AND WILL VARY ACCORDING TO LOCATION.
  4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS SUBMITTED AS PART OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP).
  5. FOR CARRIAGEWAY LEVELS PLEASE REFER TO THE PLAN AND PROFILE DRAWINGS (TR010065/APP/2.6).
  6. THE DESIGN SHOWN WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT IN ACCORDANCE WITH THE PROVISIONS OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP/3.1).

- KEY:**
- EXISTING GROUND
  - PAVEMENT
  - FOOTWAY/ CYCLEWAY
  - VERGE / CENTRAL RESERVE
  - DESIGN LAYOUT
  - EARTHWORKS

C02	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	APP'D

CLIENT  
**national highways**

PURPOSE OF ISSUE  
**DCO APPLICATION**

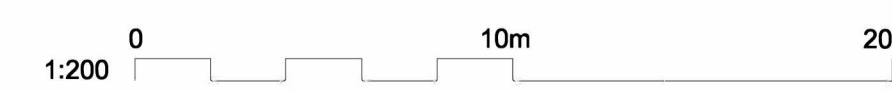
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**TR010065**

PROJECT TITLE  
**A46 NEWARK BYPASS**

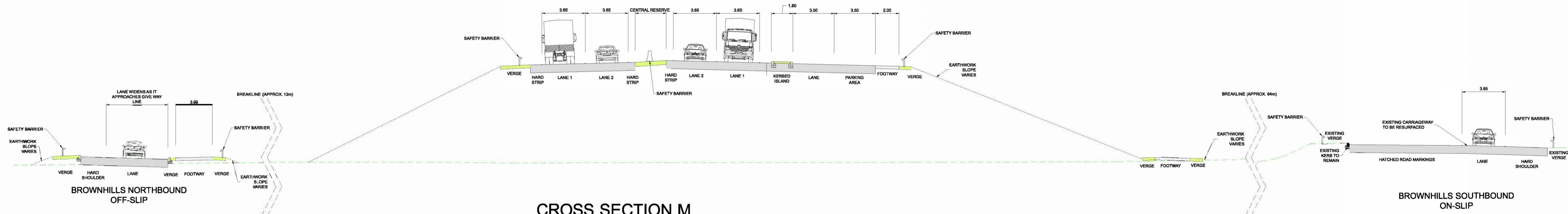
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REGULATION 5(2)(o), 5(2)(p) and 6(2)  
TYPICAL CROSS SECTIONS - SHEET 3 OF 4**

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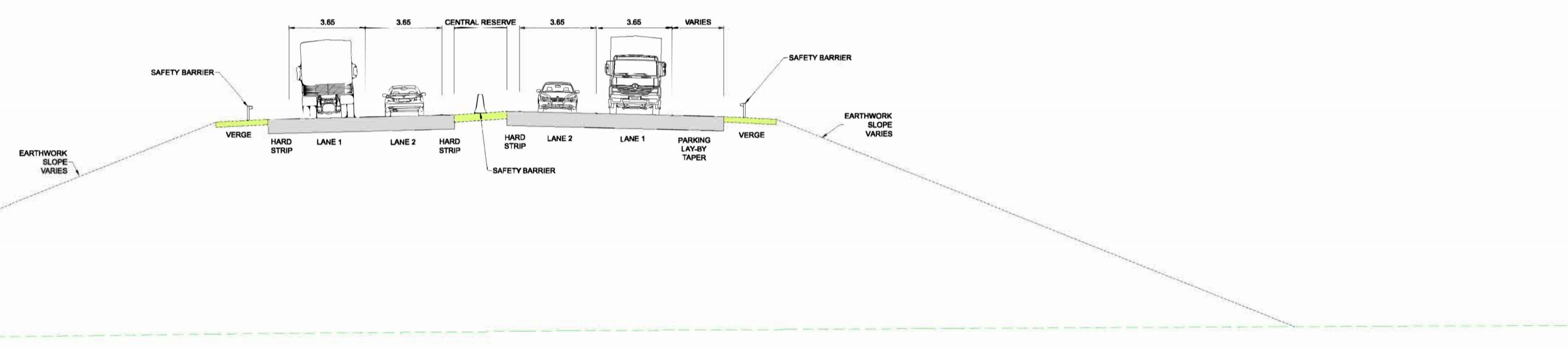
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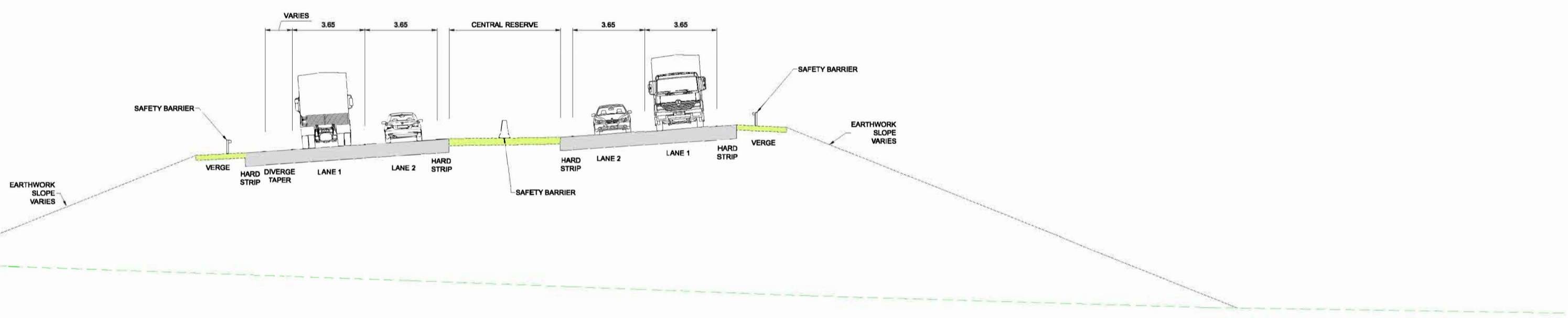
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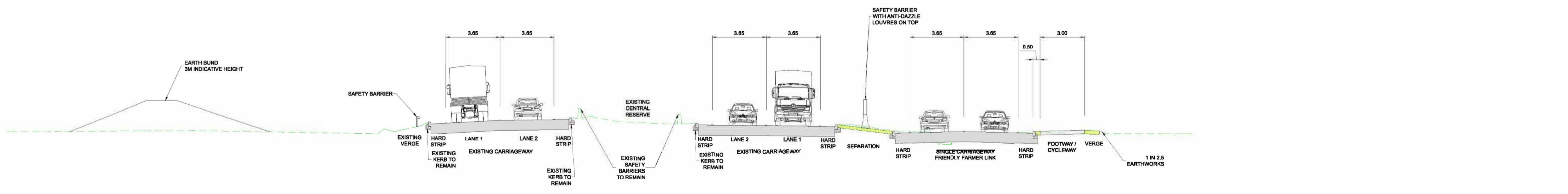
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**CROSS SECTION N**  
DUAL CARRIAGEWAY BETWEEN BROWNHILLS UNDERBRIDGE AND THE A1 CROSSING



**CROSS SECTION O**  
DUAL CARRIAGEWAY TO THE NORTH OF THE A1 CROSSING



**CROSS SECTION P**  
DUAL CARRIAGEWAY, FRIENDLY FARMER LINK AND EARTHWORK BUND BETWEEN THE A1 AND WINTHORPE ROUNDABOUT

- NOTES**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
  3. THE DIMENSIONS AND CROSS SECTIONS SHOWN ON THIS DRAWING ARE TYPICAL AND WILL VARY ACCORDING TO LOCATION.
  4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTS SUBMITTED AS PART OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP).
  5. FOR CARRIAGEWAY LEVELS PLEASE REFER TO THE PLAN AND PROFILE DRAWINGS (TR010065/APP/2.6).
  6. THE DESIGN SHOWN WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT IN ACCORDANCE WITH THE PROVISIONS OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP/3.1).

- KEY:**
- EXISTING GROUND
  - PAVEMENT
  - FOOTWAY/ CYCLEWAY
  - VERGE / CENTRAL RESERVE
  - DESIGN LAYOUT
  - EARTHWORKS

C02	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	APP'D

CLIENT  
**national highways**

PURPOSE OF ISSUE  
DCO APPLICATION

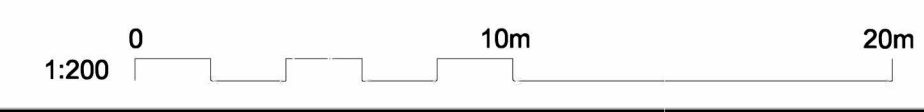
DEVELOPMENT CONSENT ORDER NUMBER  
TR010065

PROJECT TITLE  
A46 NEWARK BYPASS

DRAWING TITLE  
ENGINEERING PLANS AND SECTIONS  
REGULATION 5(2)(o), 5(2)(p) and 6(2)  
TYPICAL CROSS SECTIONS - SHEET 4 OF 4

ORIGINAL SIZE	A1	SCALE	1:200
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DRAWING NUMBER	ORIGINATOR	VOLUME	PROJECT REF NO.
HE551478	SKAG	HGN	HE551478
CONWI_CONW	DR	CH	REVISION
LOCATION	TYPE	ROLE	NUMBER
			C02



100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0