

A47/A11 Thickthorn Junction

Scheme Number: TR010037

Volume 2 **2.7 Engineering Drawings and Sections**

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

Planning Act 2008

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

March 2021

Infrastructure Planning

Planning Act 2008

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

The A47/A11 Thickthorn Junction
Development Consent Order 202[x]

ENGINEERING DRAWINGS AND SECTIONS

Regulation Number:	5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010037
Application Document Reference	TR010037/APP/2.7
Author:	A47/A11 Thickthorn Junction Project Team, Highways England

Version	Date	Status of Version
Rev.0	March 2021	Application Issue

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1. INTRODUCTION

1.1.1 The Engineering Drawings and Sections (the “Drawings”) relate to an application made by Highways England (the “Applicant”) to the Secretary of State of Transport, via the Planning Inspectorate (the “Inspectorate”) under Section 37 of the Planning Act 2008 (the PA 2008) for a Development Consent Order (DCO). If made, the DCO would grant consent for the A47/A11 Thickthorn Junction (the “Scheme”). A detailed description of the Scheme can be found in Chapter 2 The Proposed Scheme of the Environmental Statement (ES)(**TR010037/APP/6.1**).

1.1.2 The Drawings comprise part of the suite of Application documentation and are included in the application for a DCO in compliance with Regulations 5(2)(o), 5(2)(p) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”), which require:

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.”

- 1.1.3 As the Drawings are part of the application documentation, they should be read alongside and are informed by the other application documentation. In particular, the Drawings should be read alongside Schedule 1 of the draft DCO (**TR010037/APP/3.1**), the General Arrangement Plans (**TR010037/APP/2.2**) and the Works Plans (**TR010037/APP/2.4**).

2. SCHEDULE OF PLANS IN THIS APPLICATION DOCUMENT

Document Title	DCO Document Number	Drawing Number	Rev
DRAINAGE ATTENUATION TANK (S18)	TR010037/APP/2.7(A)	HE551492-GTY-LSI-000-DR-CH-36012	C01
CANTLEY LANE LINK ROAD (CH. 0 TO 955)	TR010037/APP/2.7(B)	HE551492-GTY-LSI-000-DR-CH-36015	C01
A11-A47 LINK (CH.0 TO 700) Sheet 1 of 2	TR010037/APP/2.7(C)	HE551492-GTY-LSI-000-DR-CH-36016	C01
A11-A47 LINK (CH. 700 TO 1282) Sheet 2 of 2	TR010037/APP/2.7(D)	HE551492-GTY-LSI-000-DR-CH-36017	C01
STRUCTURES DRAWINGS S45 CANTLEY LANE FOOTBRIDGE	TR010037/APP/2.7(E)	HE551492-GTY-LSI-000-DR-CH-36018	C01
STRUCTURES DRAWINGS S41 CANTLEY WOOD OVERBRIDGE	TR010037/APP/2.7(F)	HE551492-GTY-LSI-000-DR-CH-36019	C01
STRUCTURES DRAWINGS S42 CANTLEY WOOD LINK ROAD OVERBRIDGE	TR010037/APP/2.7(G)	HE551492-GTY-LSI-000-DR-CH-36020	C01
STRUCTURES DRAWINGS S01A CANTLEY STREAM UNDERPASS	TR010037/APP/2.7(H)	HE551492-GTY-LSI-000-DR-CH-36021	C01

STRUCTURES DRAWINGS S02 WARD'S WOOD UNDERPASS	TR010037/APP/2.7(I)	HE551492-GTY-LSI-000-DR-CH- 36022	C01
STRUCTURES DRAWINGS S04 CANTLEY LANE UNDERPASS	TR010037/APP/2.7(J)	HE551492-GTY-LSI-000-DR-CH- 36023	C01
STRUCTURES DRAWINGS S46 CANTLEY LANE SOUTH CULVERT	TR010037/APP/2.7(K)	HE551492-GTY-LSI-000-DR-CH- 36024	C01

NOTES

- Purpose of use
FOR DCO SUBMISSION
- Development Consent Order Number / Document
TR010037/APP/2.7(B)
- ALL DIMENSIONS AND CHAINAGES ARE IN METRES UNLESS STATED OTHERWISE.
 - GENERAL ARRANGEMENT PLANS REGULATIONS 5(2)(o) TR010037/APP/2.2(B) TO 2.2(G) ARE TO BE USED AS LOCATION REFERENCE FOR SHEET SETS AS IDENTIFIED ON REGULATION 5(2)(o) DRAWING TR010037/APP/2.2(AA) AND 2.2(AB).
 - ALL STRUCTURE POSITIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH THE DEVELOPMENT CONSENT ORDER. THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT.
 - THE HEIGHTS OF PROPOSED BRIDGES AND EMBANKMENTS AND THE DEPTH OF PROPOSED CUTTINGS ARE MARKED AS REQUIRED ON ENGINEERING SECTION DRAWINGS AND ARE INDICATIVE.

KEY TO SYMBOLS

- EXISTING LEVELS
- PROPOSED LEVELS

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	10/12/20	FIRST ISSUE	AKno	JHar	JHar
P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER



CONTRACTOR



CLIENT



PROJECT TITLE

A47/A11 THICKTHORN JUNCTION

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

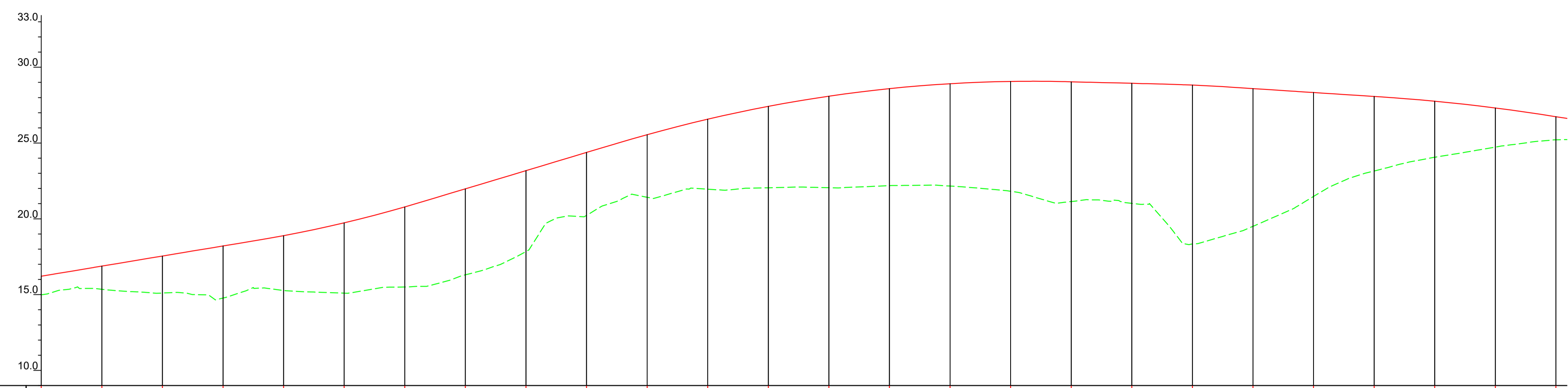
ENGINEERING DRAWINGS & LONG SECTIONS
REGULATIONS 5(2)(o) & 6(2)(a)
CANTLEY LINK ROAD (CH. 0 TO 955)
SHEET 1 OF 1

SUITABILITY

AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
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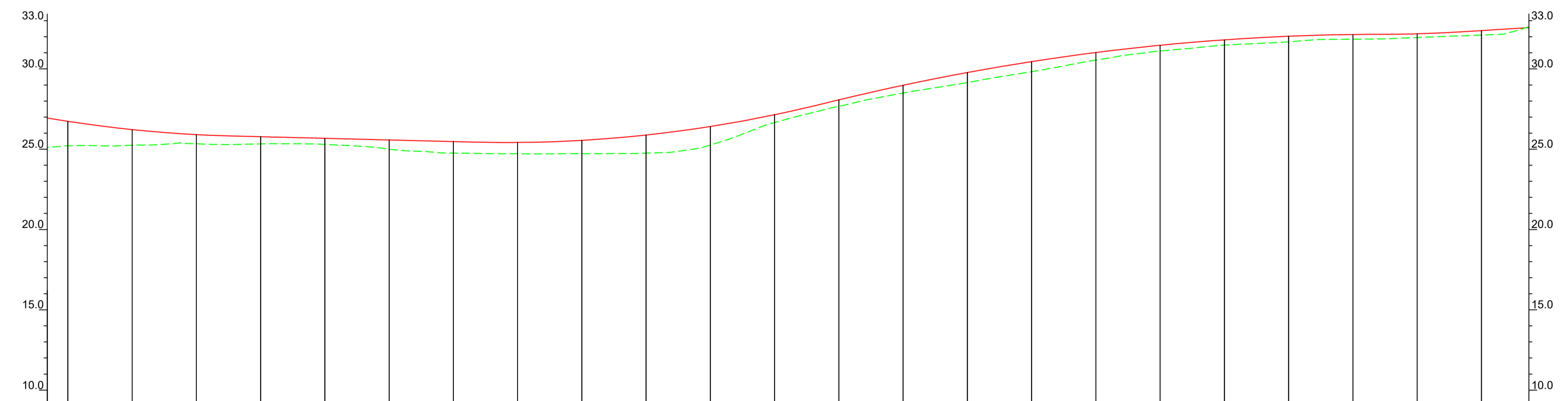
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EXISTING LEVELS	14.989	15.348	15.104	14.772	15.272	15.097	15.503	16.304	17.843	20.226	21.423	21.954	22.046	22.052	22.188	22.162	21.818	21.140	21.021	18.335	19.503	21.476	23.156	24.063	24.734	25.212
CHAINAGE	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
GRADIENT		3.325	3.325	3.325	3.409	4.235	5.235	6.965	6.000	6.000	5.875	5.100	4.220	3.361	2.481	1.621	0.752	-0.116	-0.500	-0.592	-1.148	-1.300	-1.300	-1.584	-2.226	-2.886
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Vert 1:200 (A1)



DATUM RL 9.0

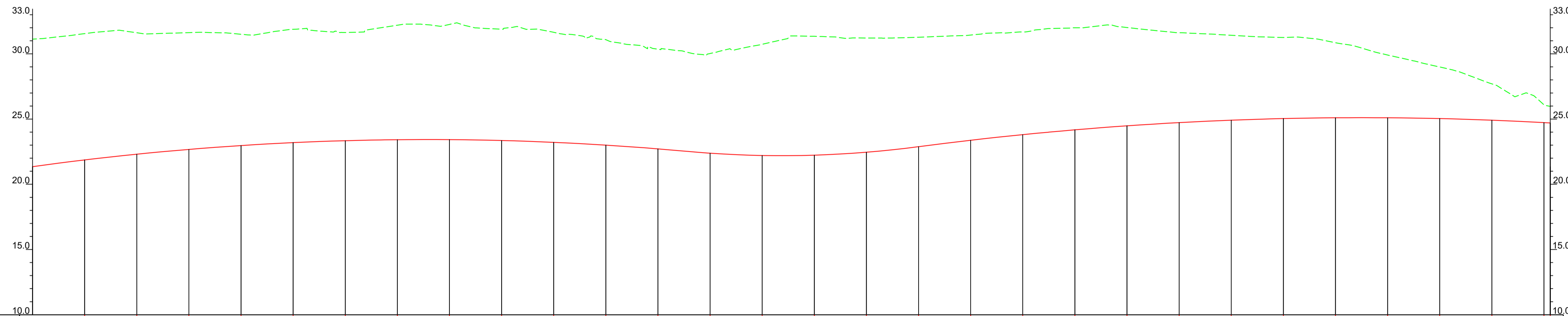
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EXISTING LEVELS	25.212	25.247	25.337	25.330	25.297	24.996	24.758	24.717	24.724	24.751	25.261	26.663	27.671	28.498	29.152	29.828	30.551	31.116	31.483	31.687	31.848	31.955	32.108	32.512
CHAINAGE	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	955
GRADIENT	2.886	2.571	-1.571	-0.663	-0.500	-0.500	-0.500	-0.283	0.659	1.659	2.659	3.659	4.624	4.544	3.972	3.401	2.829	2.258	1.687	1.115	0.544	0.220	1.005	1.212
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NOTES

- Purpose of use
FOR DCO SUBMISSION
- Development Consent Order Number / Document
TR010037/APP/2.7(D)
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KEY TO SYMBOLS

- EXISTING LEVELS
- PROPOSED LEVELS



DATUM RL 10.0

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EXISTING LEVELS	31.129	31.549	31.617	31.627	31.503	31.881	31.638	32.196	32.258	31.894	31.649	31.082	30.360	30.028	30.731	31.344	31.216	31.272	31.440	31.680	32.003	32.019	31.622	31.423	31.255	30.850	29.910	28.991	27.697	28.997			
CHAINAGE	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1282			
GRADIENT	2.832	2.568	2.205	1.841	1.477	1.114	0.750	0.386	0.023	-0.341	-0.705	-1.068	-1.432	-1.683	-0.876	0.124	1.124	2.124	2.462	2.155	1.847	1.539	1.232	0.924	0.616	0.308	0.001	-0.307	-0.615	-0.980			
VERTICAL DATA																																	
HORIZONTAL DATA																																	

Scale - Horiz 1:1000 (A1),
Vert 1:200 (A1)

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P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWII
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWII
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47/A11 THICKTHORN JUNCTION

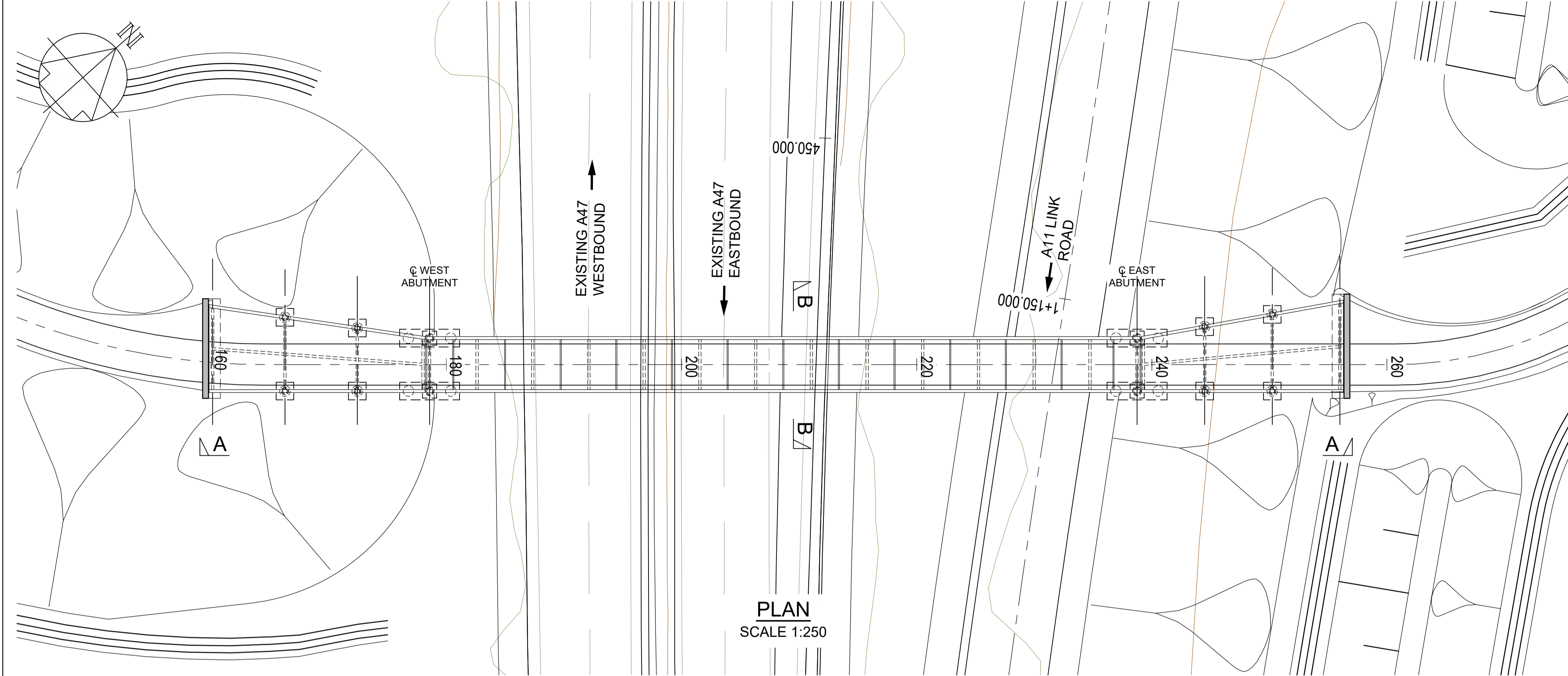
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**ENGINEERING DRAWINGS & LONG SECTIONS
REGULATIONS 5(2)(o) & 6(2)(a)
A11-A47 LINK (CH. 700 TO 1282)
SHEET 2 OF 2**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

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DRAWING NUMBER
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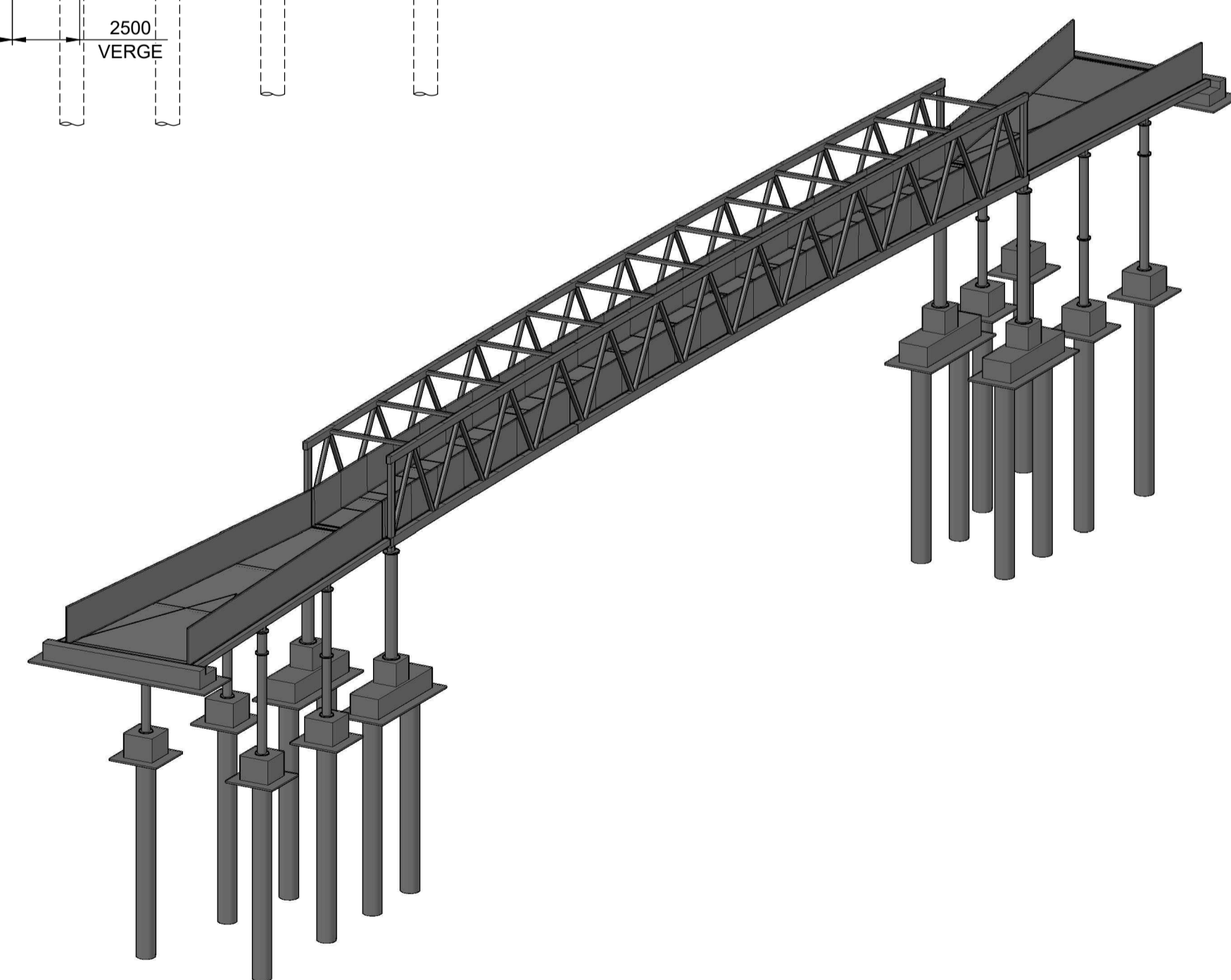
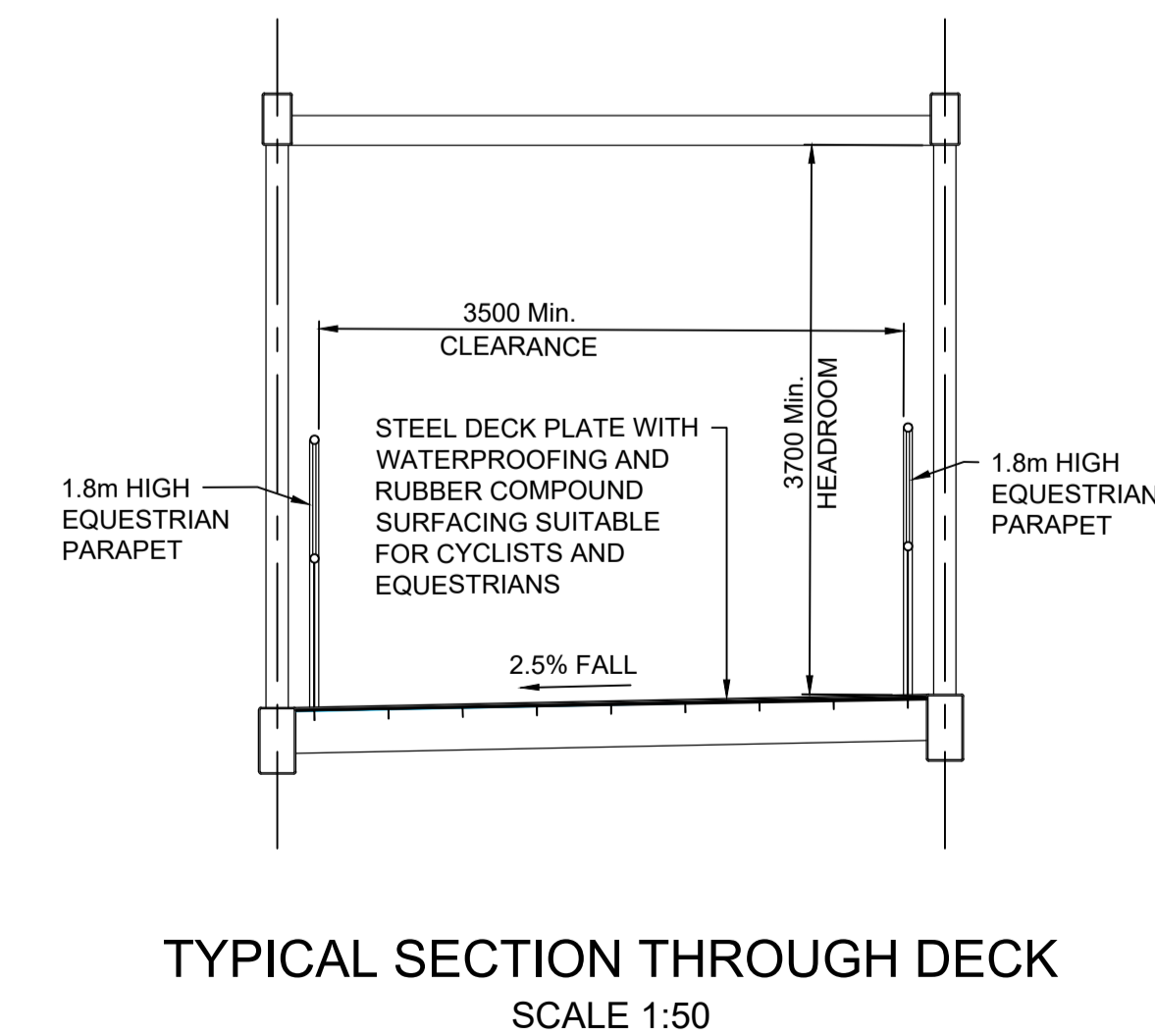
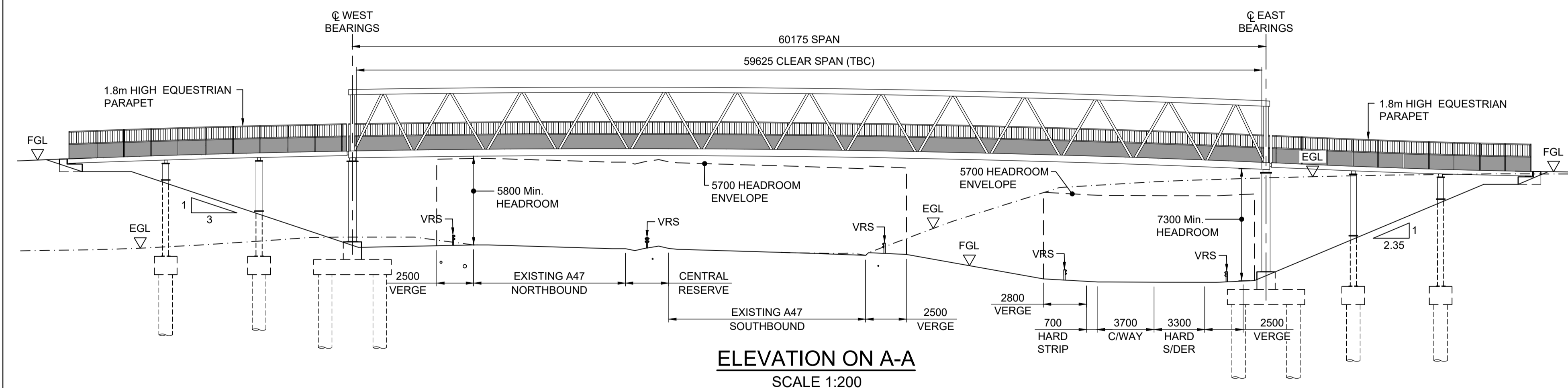
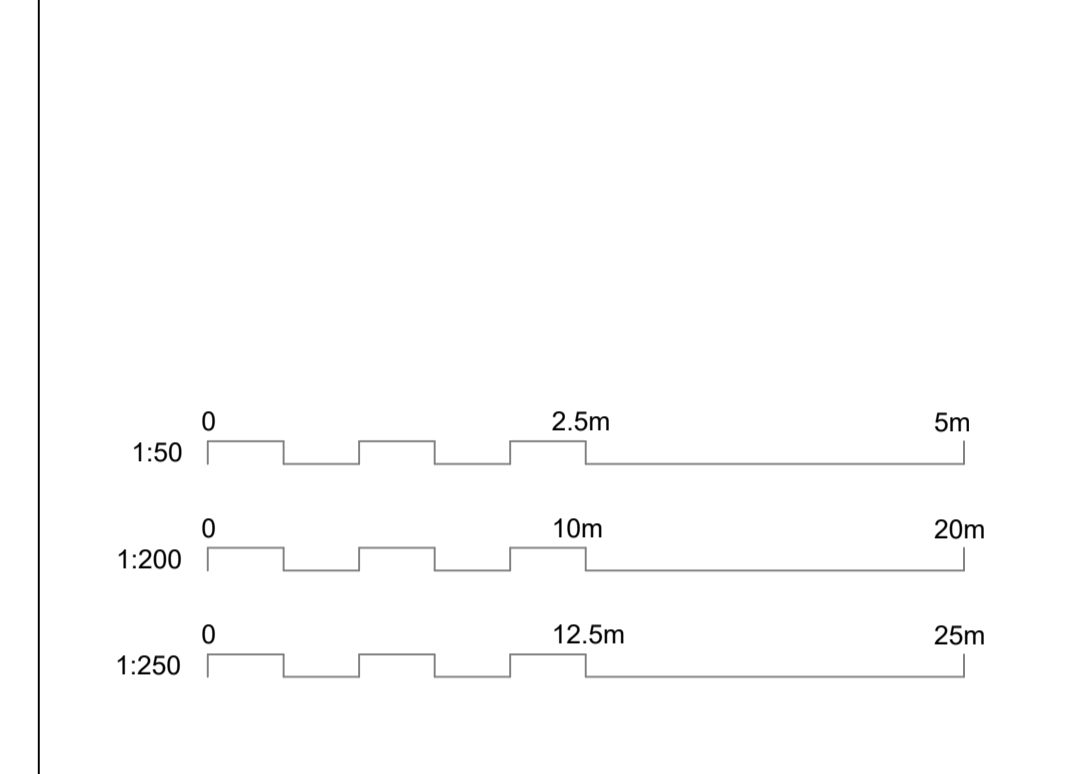
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- THIS DRAWING SHOWS THE PREFERRED OPTION AT THIS STAGE. THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY AND ANY OTHER CONSTRAINT INCLUDED IN THE DEVELOPMENT CONSENT ORDER (DOCUMENT REFERENCE TR010037/APP/3.1).

NOTES

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FOR DCO SUBMISSION
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KEY TO SYMBOLS



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SCALE 1:250

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P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
P03	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE

A47/A11 THICKTHORN JUNCTION

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

**ENGINEERING DRAWINGS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS (WORK NO. 35)
S45 CANTLEY LANE FOOTBRIDGE**

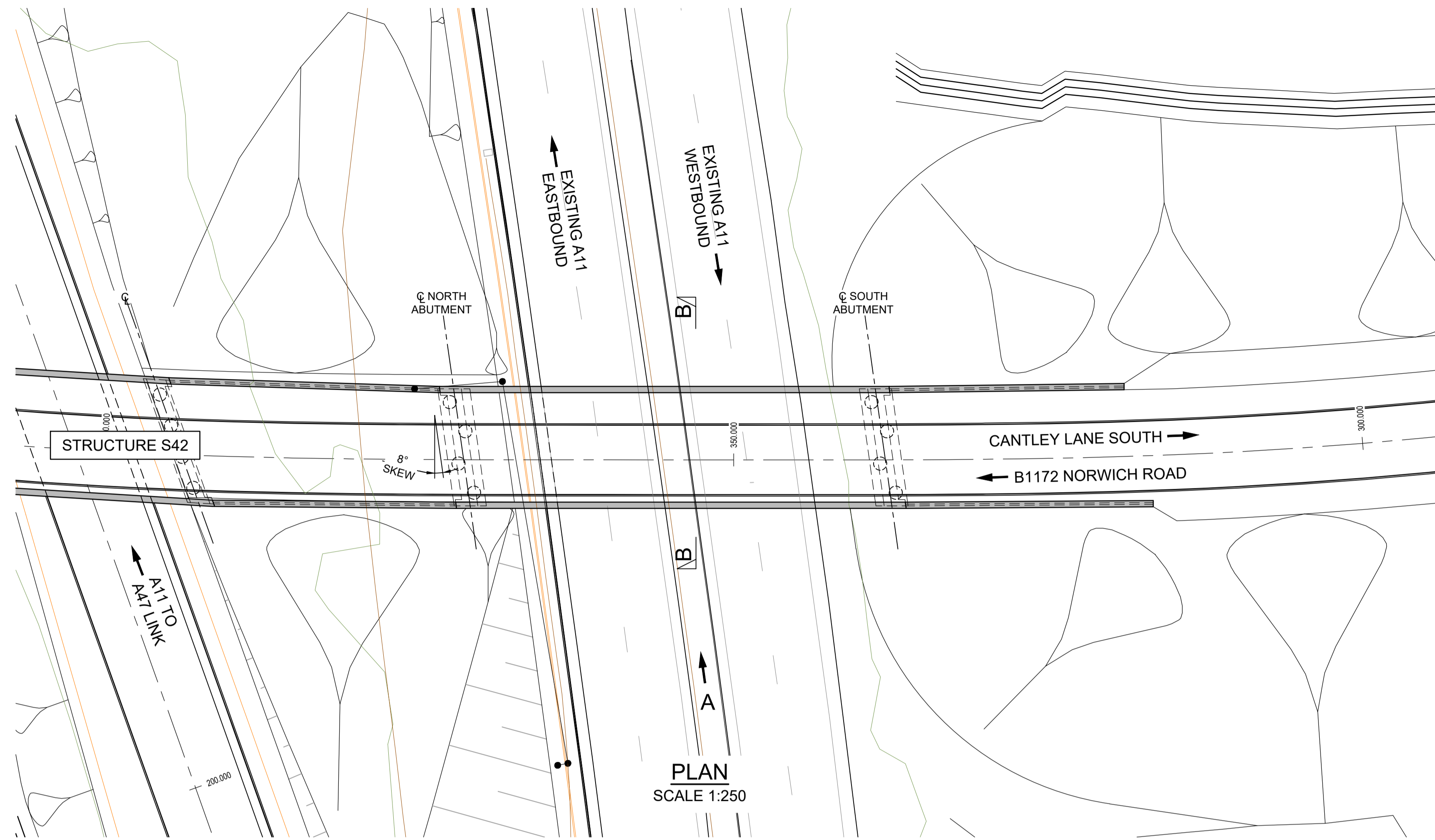
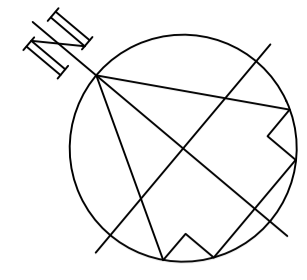
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AUTHORISED AS STAGE 3 COMPLETED

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DRAWING NUMBER

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NOTES CONTINUED:

- THIS DRAWING SHOWS THE PREFERRED OPTION AT THIS STAGE. THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY AND ANY OTHER CONSTRAINT INCLUDED IN THE DEVELOPMENT CONSENT ORDER (DOCUMENT REFERENCE TR010037/APP/3.1).

NOTES

Purpose of use

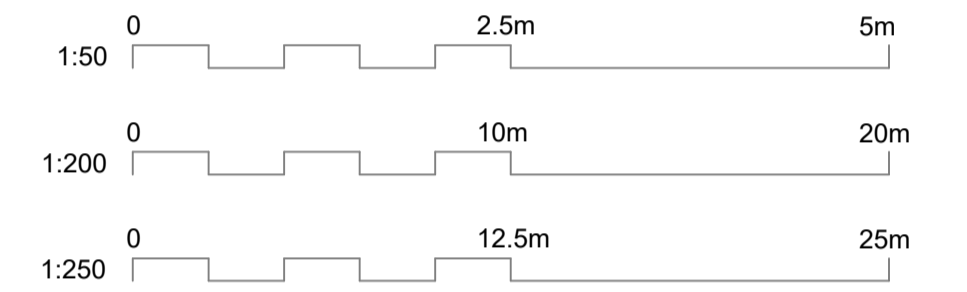
FOR DCO SUBMISSION

Development Consent Order Number / Document

TR010037/APP/2.7(F)

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
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KEY TO SYMBOLS



REV	DATE	REVISION NOTE	ORG	CHKD	APPD
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P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER



CONTRACTOR



CLIENT



PROJECT TITLE

A47/A11 THICKTHORN JUNCTION

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

ENGINEERING DRAWINGS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS
S41 CANTLEY WOOD OVERBRIDGE

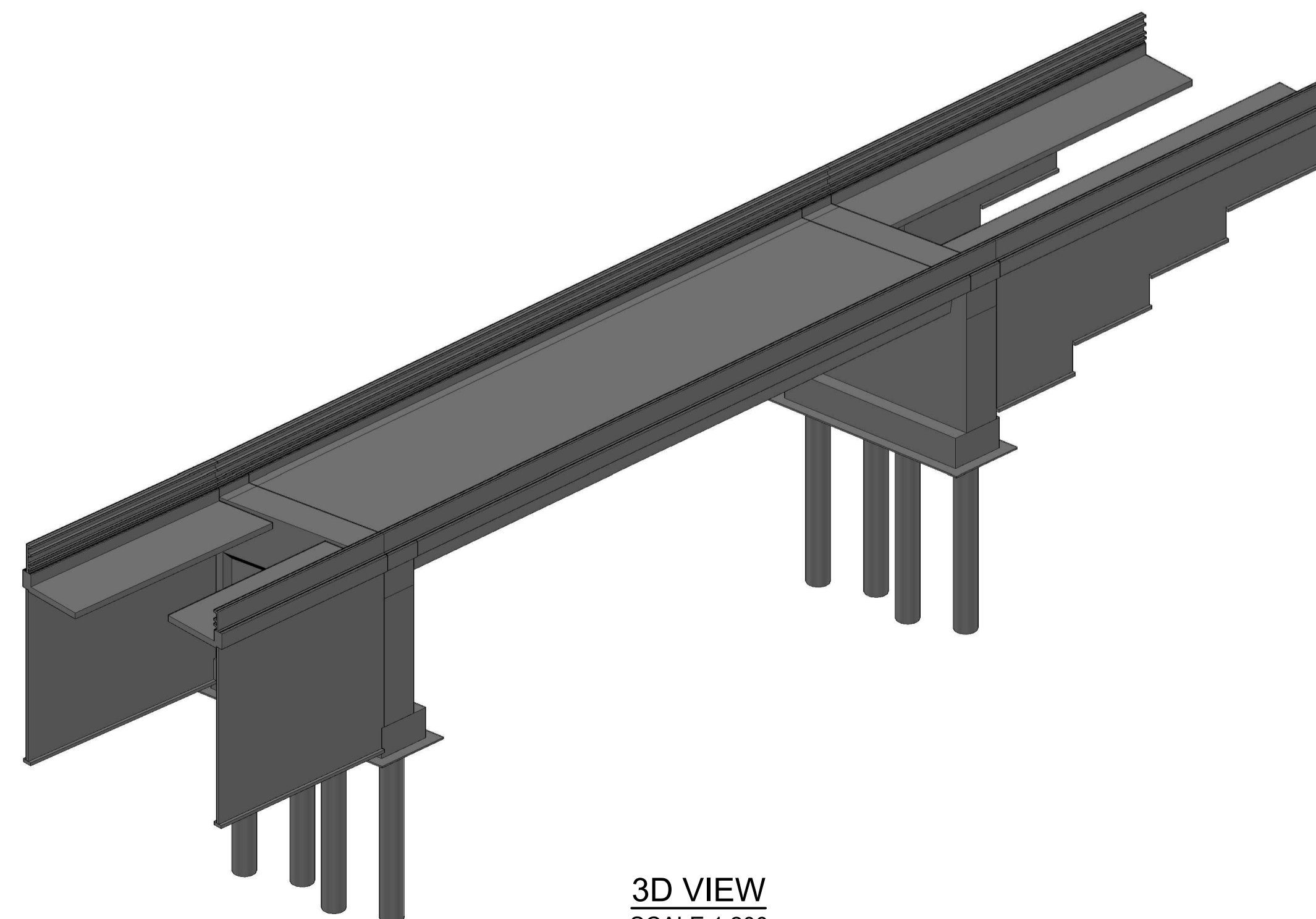
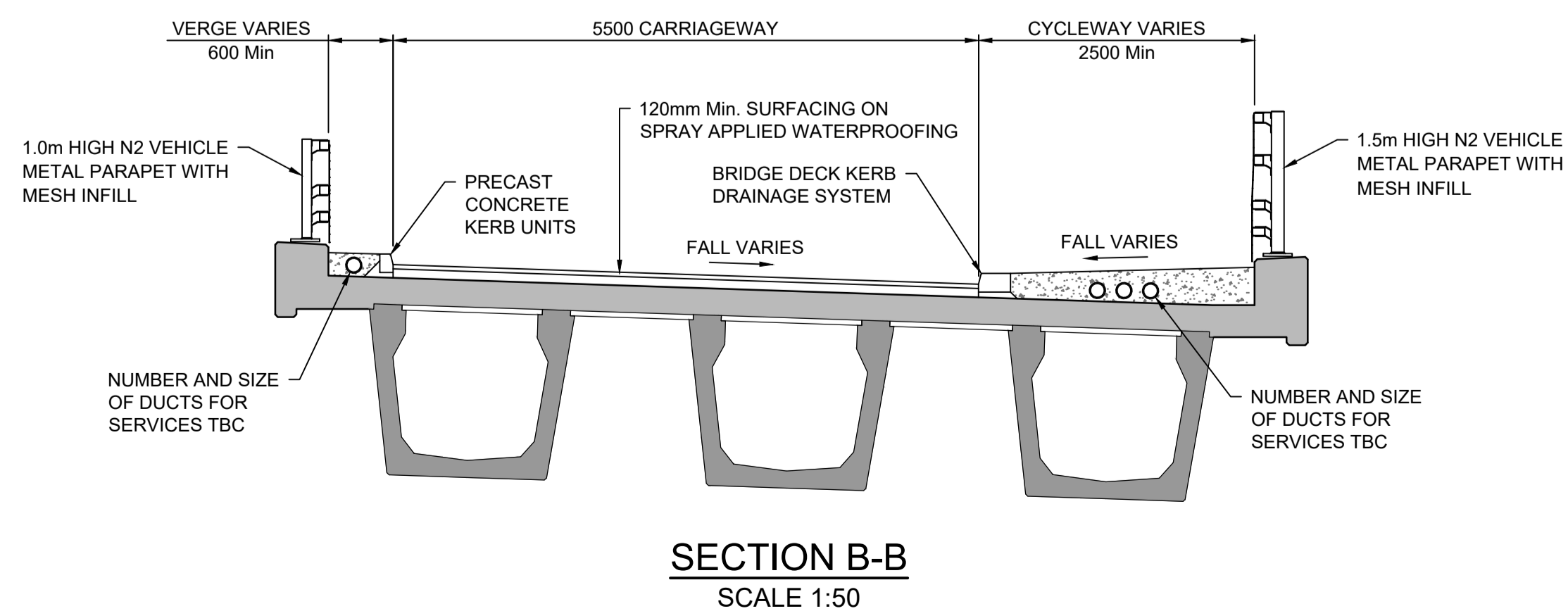
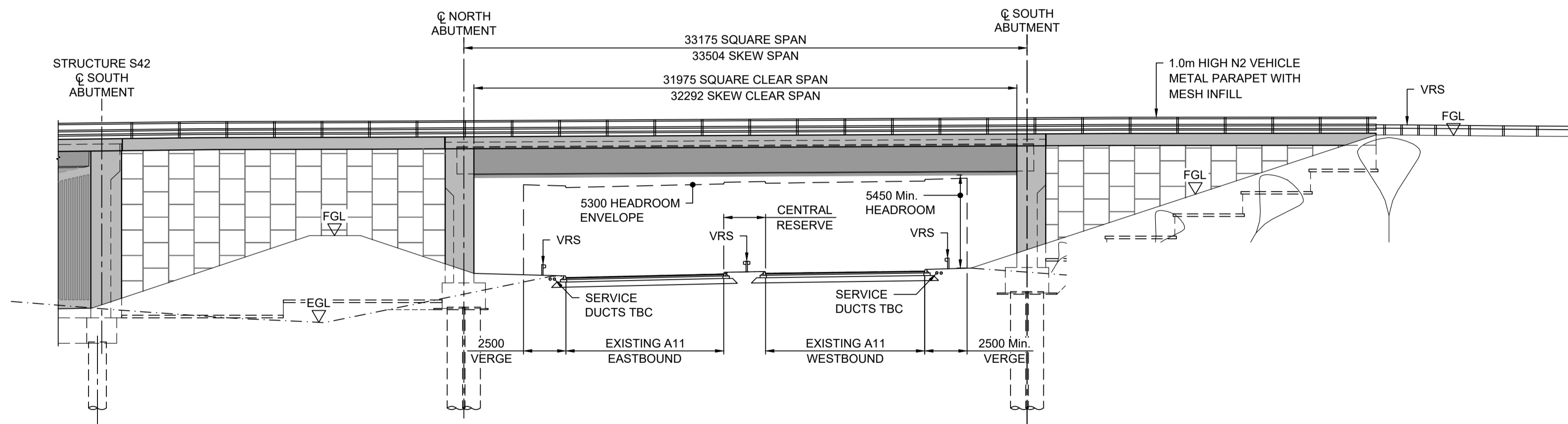
SUITABILITY

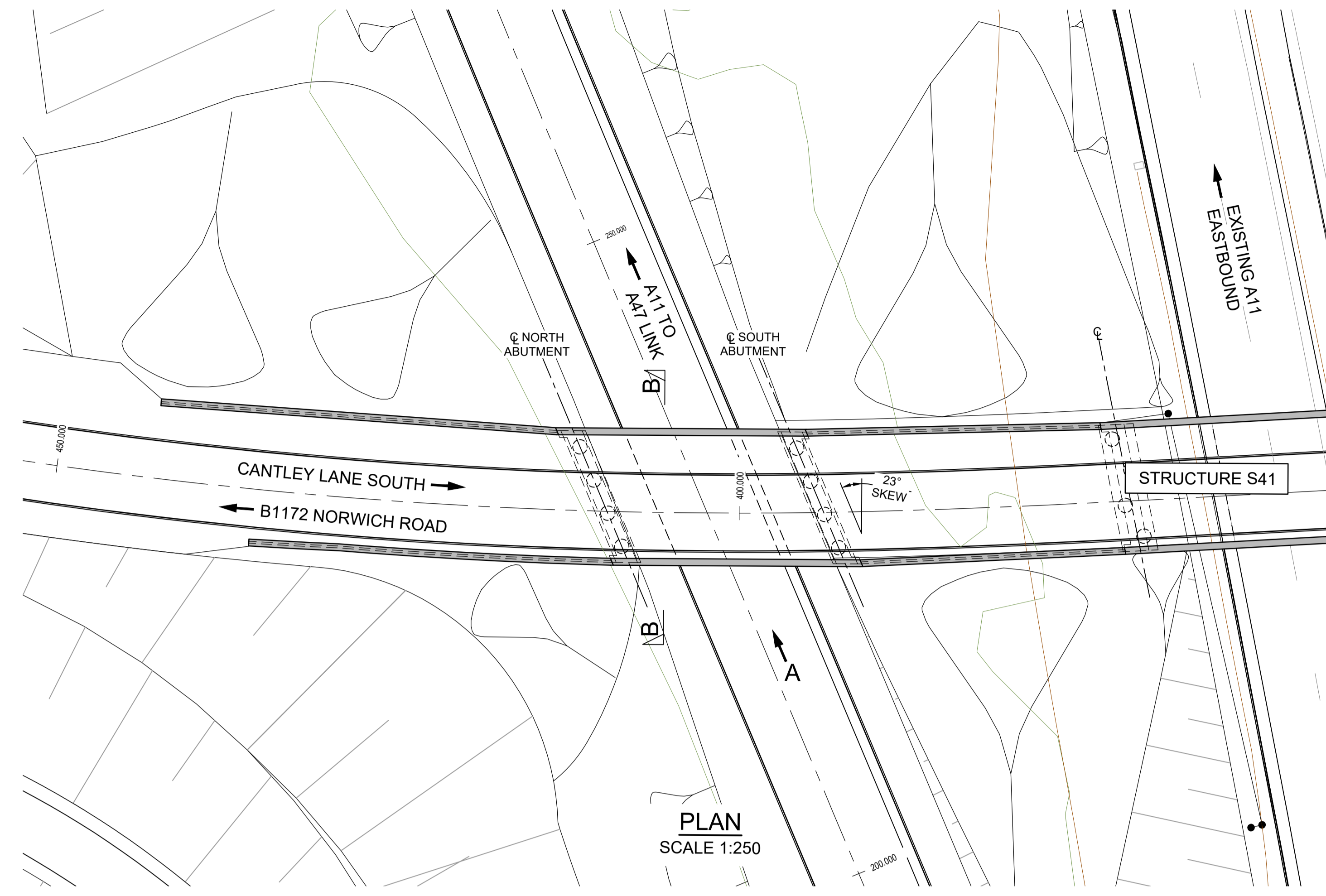
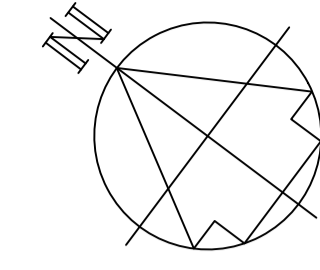
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	AS SHOWN	A3	C01

DRAWING NUMBER

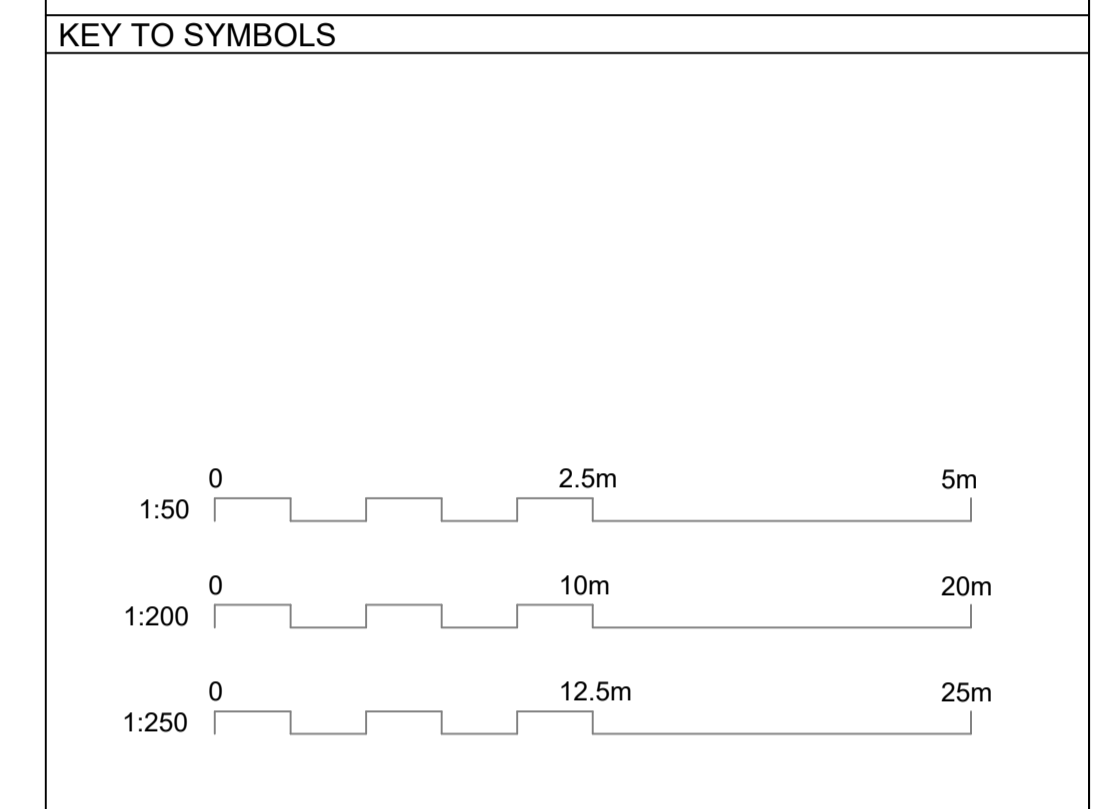
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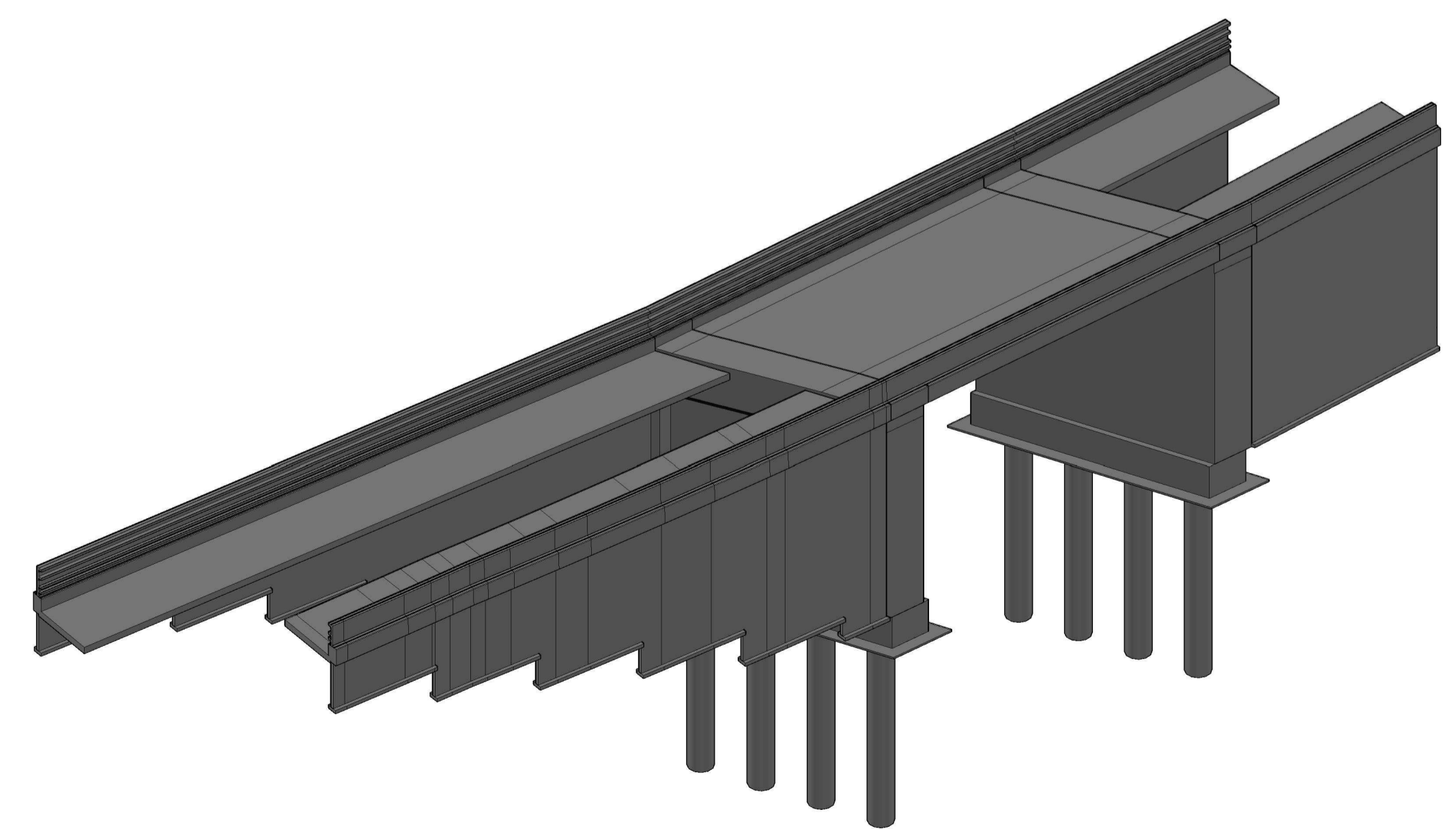
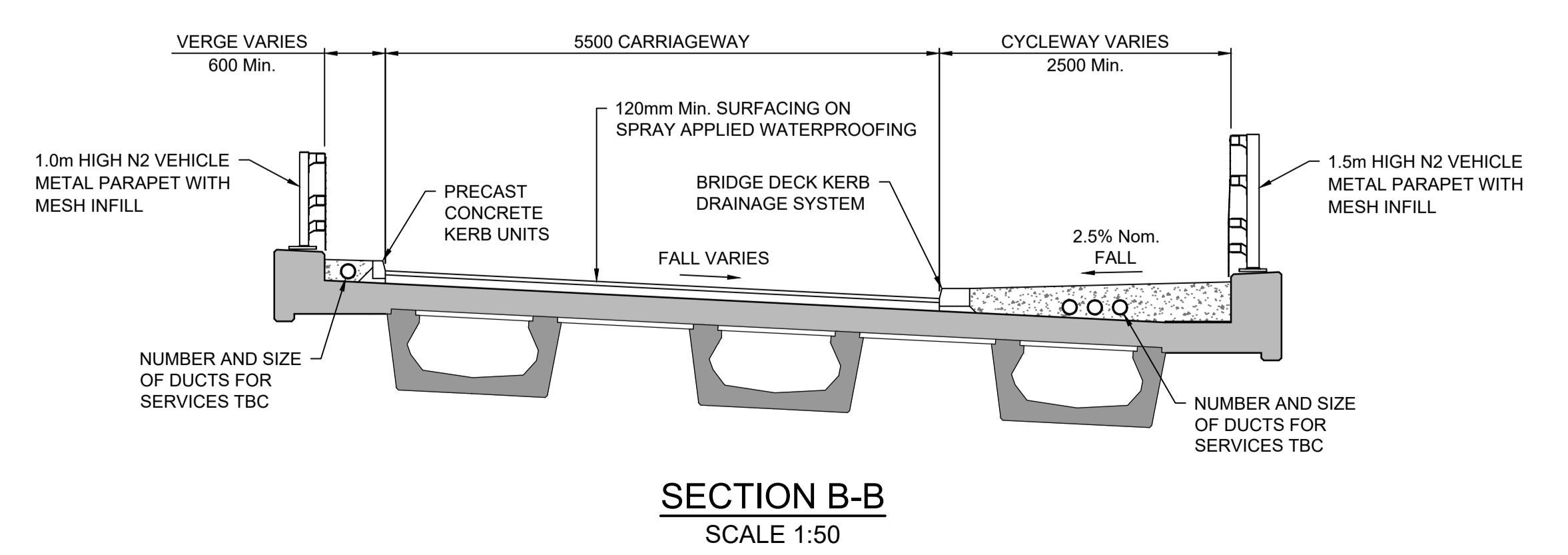
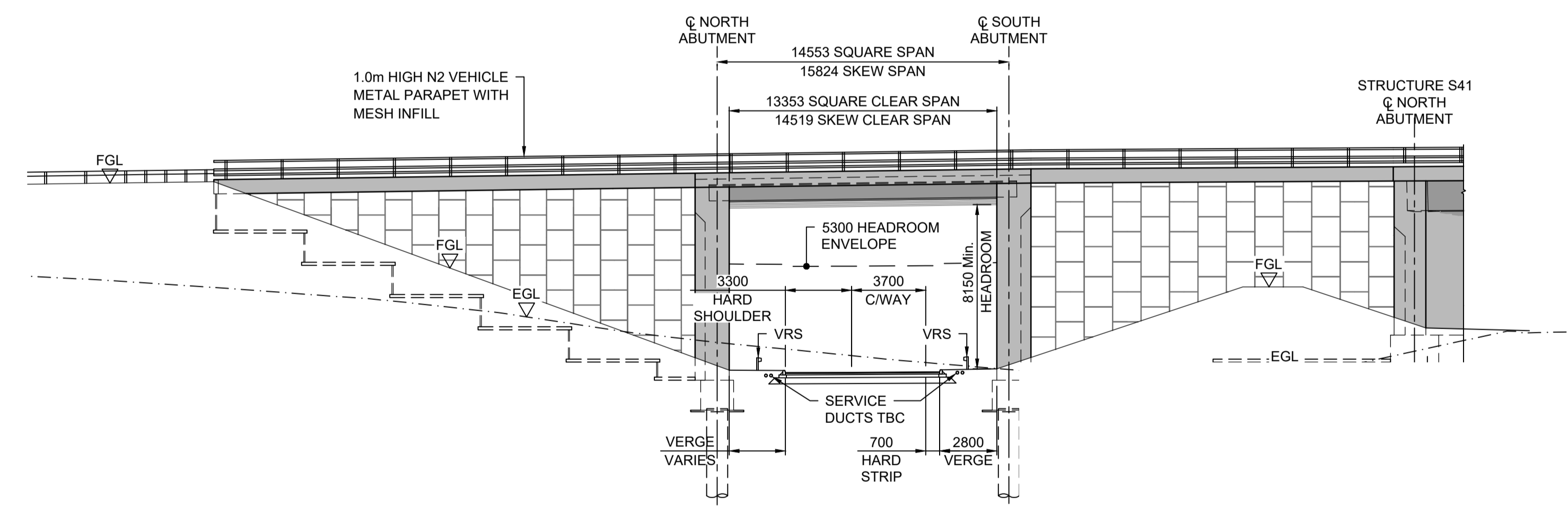


NOTES CONTINUED:
5. THIS DRAWING SHOWS THE PREFERRED OPTION AT THIS STAGE. THE PROPOSED WORKS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY AND ANY OTHER CONSTRAINT INCLUDED IN THE DEVELOPMENT CONSENT ORDER (DOCUMENT REFERENCE TR010037/APP/3.1).

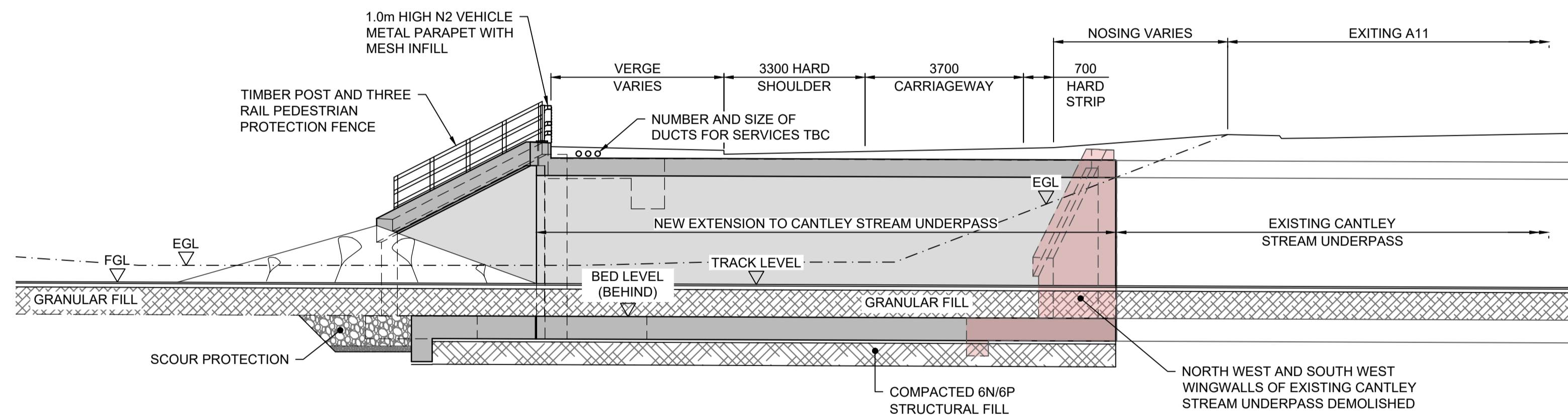
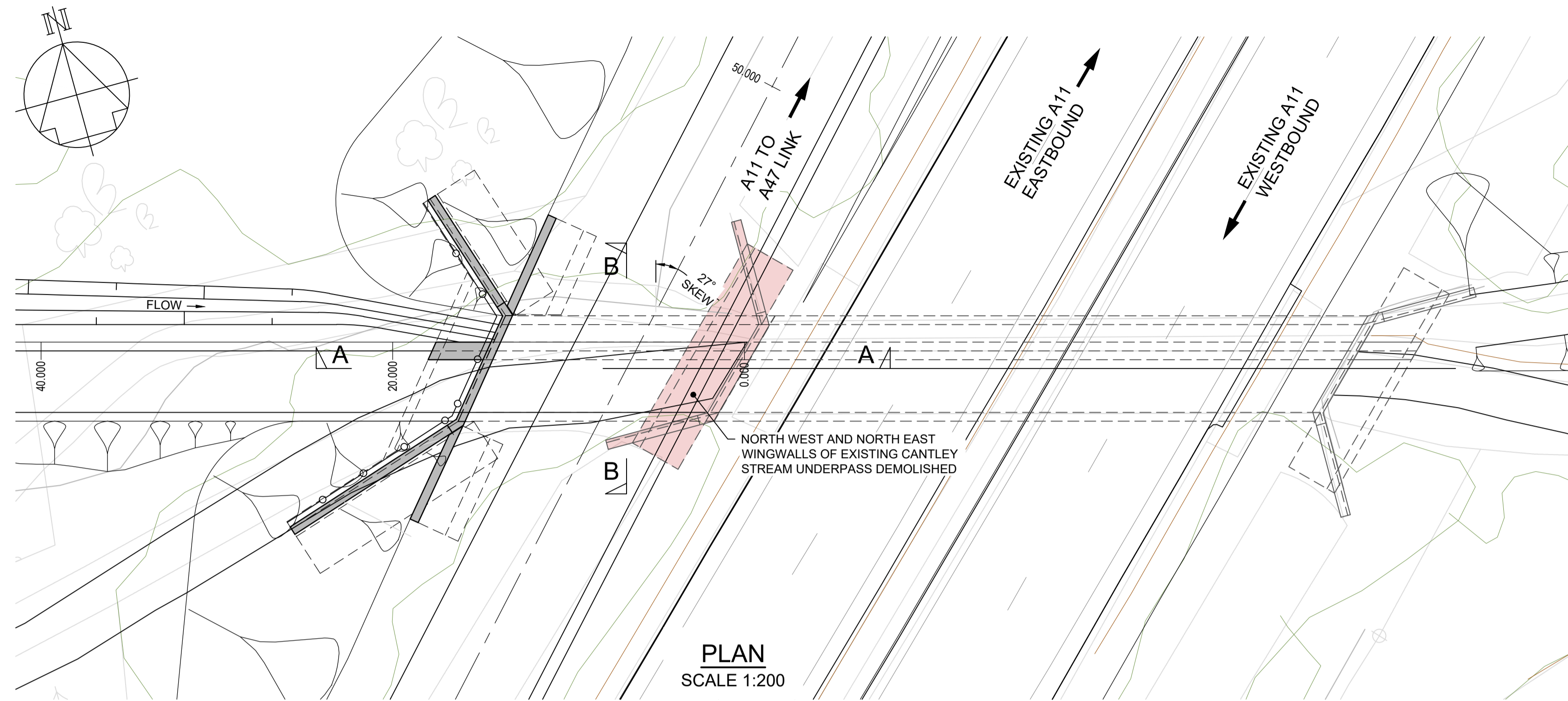
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Purpose of use FOR DCO SUBMISSION	
Development Consent Order Number / Document TR010037/APP/2.7(G)	
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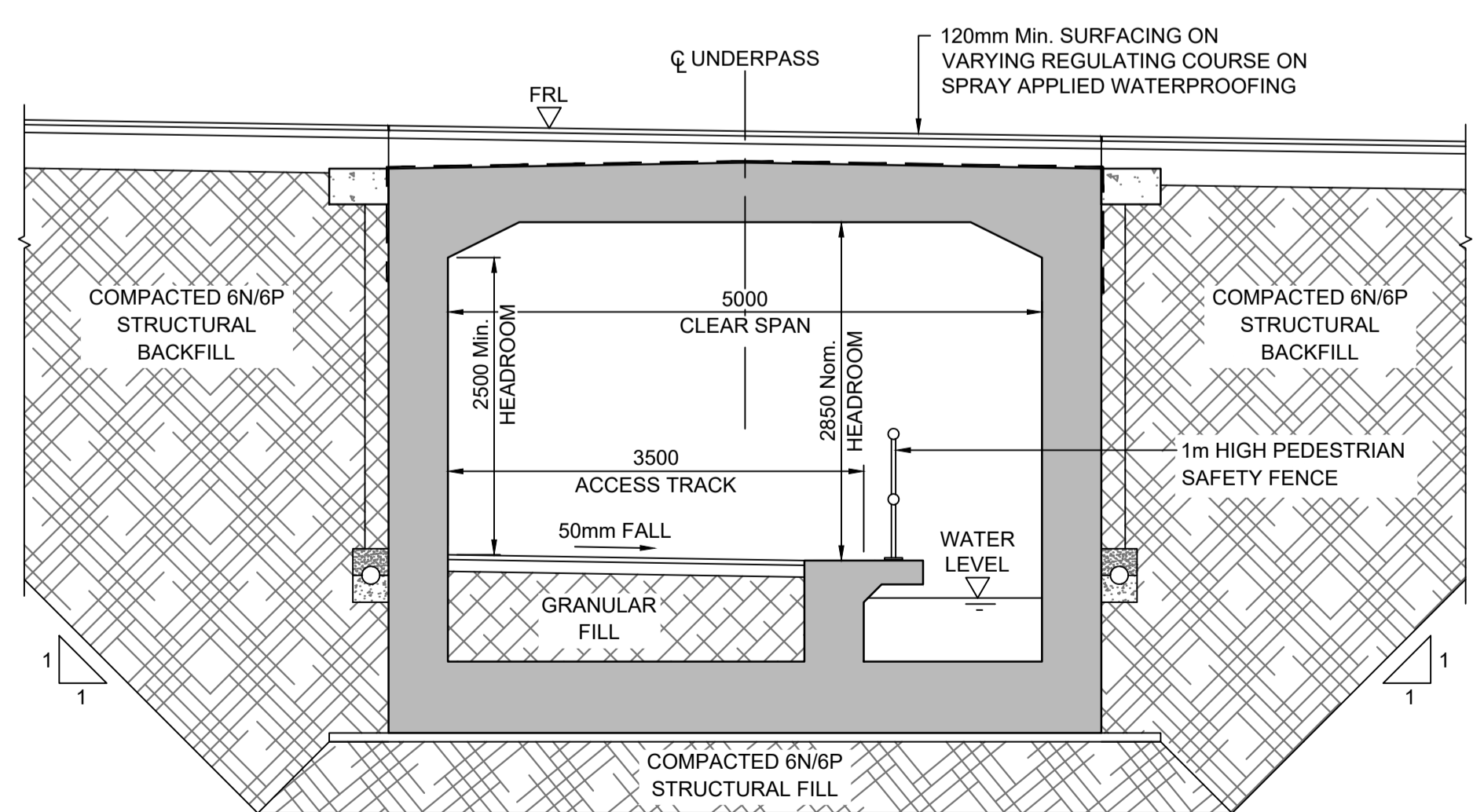
P01	10/12/20	FIRST ISSUE	AKno	JHar	JHar
P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWii
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWii
REV	DATE	REVISION NOTE	ORG	CHKD	APPD



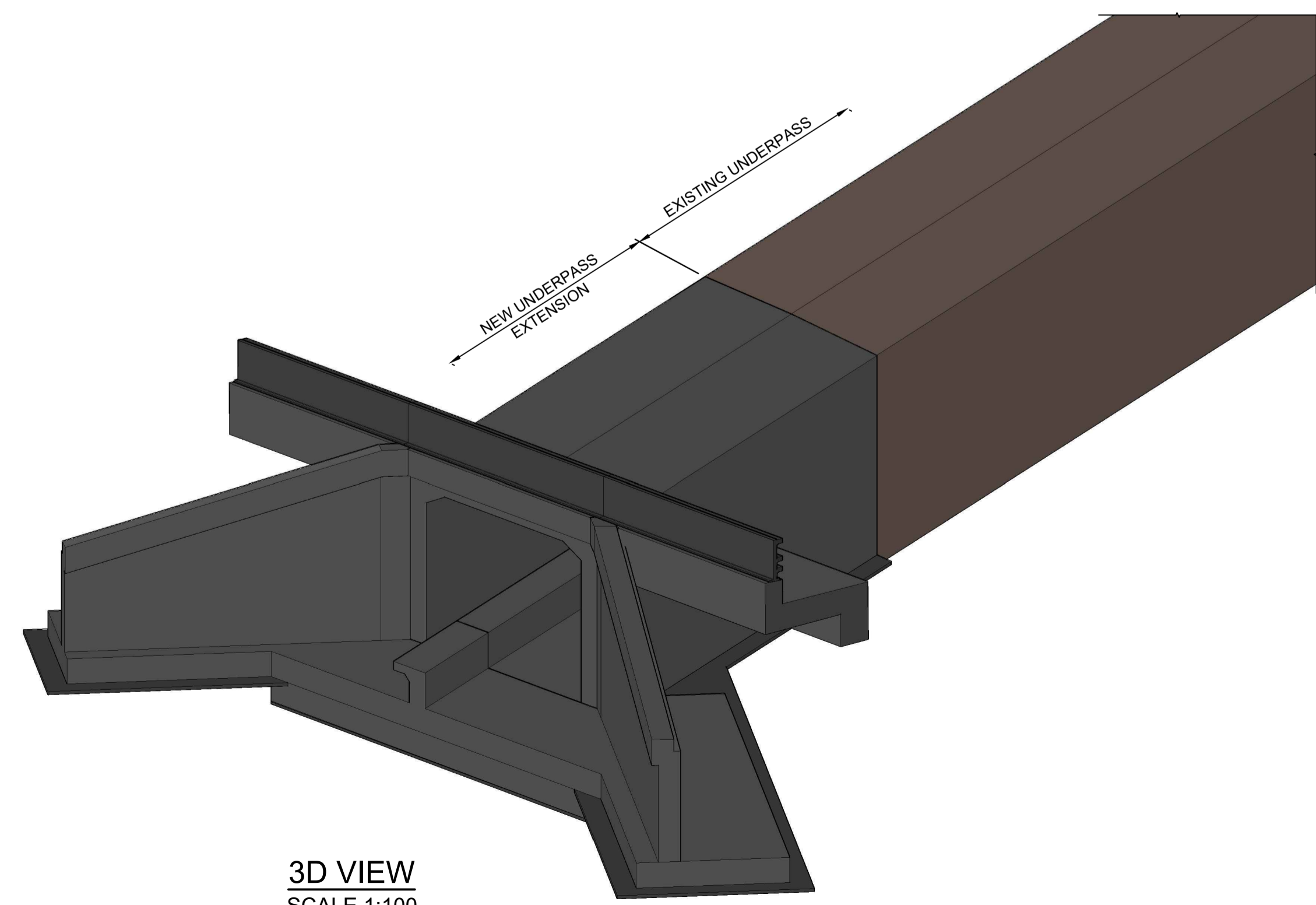
DESIGNER		SWECO			
CONTRACTOR		GallifordTry			
CLIENT		highways england			
PROJECT TITLE		A47/A11 THICKTHORN JUNCTION			
PROJECT STAGE		PCF STAGE 3			
DRAWING TITLE		ENGINEERING DRAWINGS REGULATION 5(2)(o) & 6(2)(a) STRUCTURES DRAWINGS S42 CANTLEY WOOD LINK ROAD OVERBRIDGE			
SUITABILITY		AUTHORISED AS STAGE 3 COMPLETED			
SHEET SIZE A1	SCALE AS SHOWN	STATUS A3	REVISION C01		
DRAWING NUMBER		HE551492-GTY-LSI-000-DR-CH-36020			



SECTION A-A
SCALE 1:100



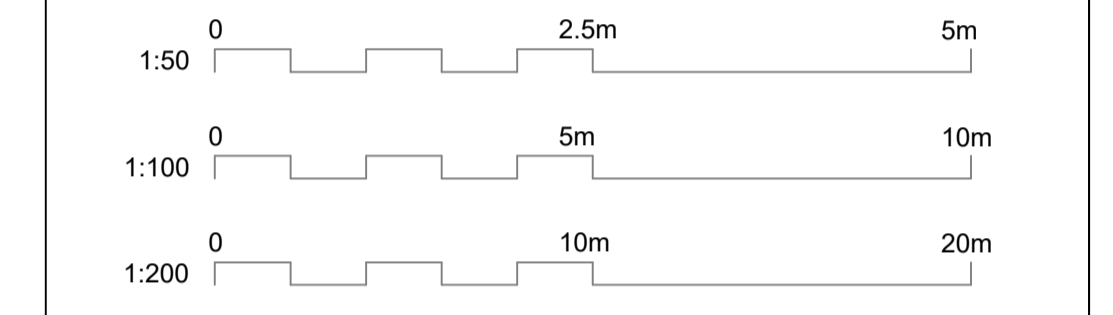
TYPICAL SECTION B-B
SCALE 1:50



3D VIEW
SCALE 1:100

NOTES

- Purpose of use
FOR DCO SUBMISSION
- Development Consent Order Number / Document
TR010037/APP/2.7(H)
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS AND CHAINAGES ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
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P01	10/12/20	FIRST ISSUE	AKno	JHar	JHar
P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47/A11 THICKTHORN JUNCTION

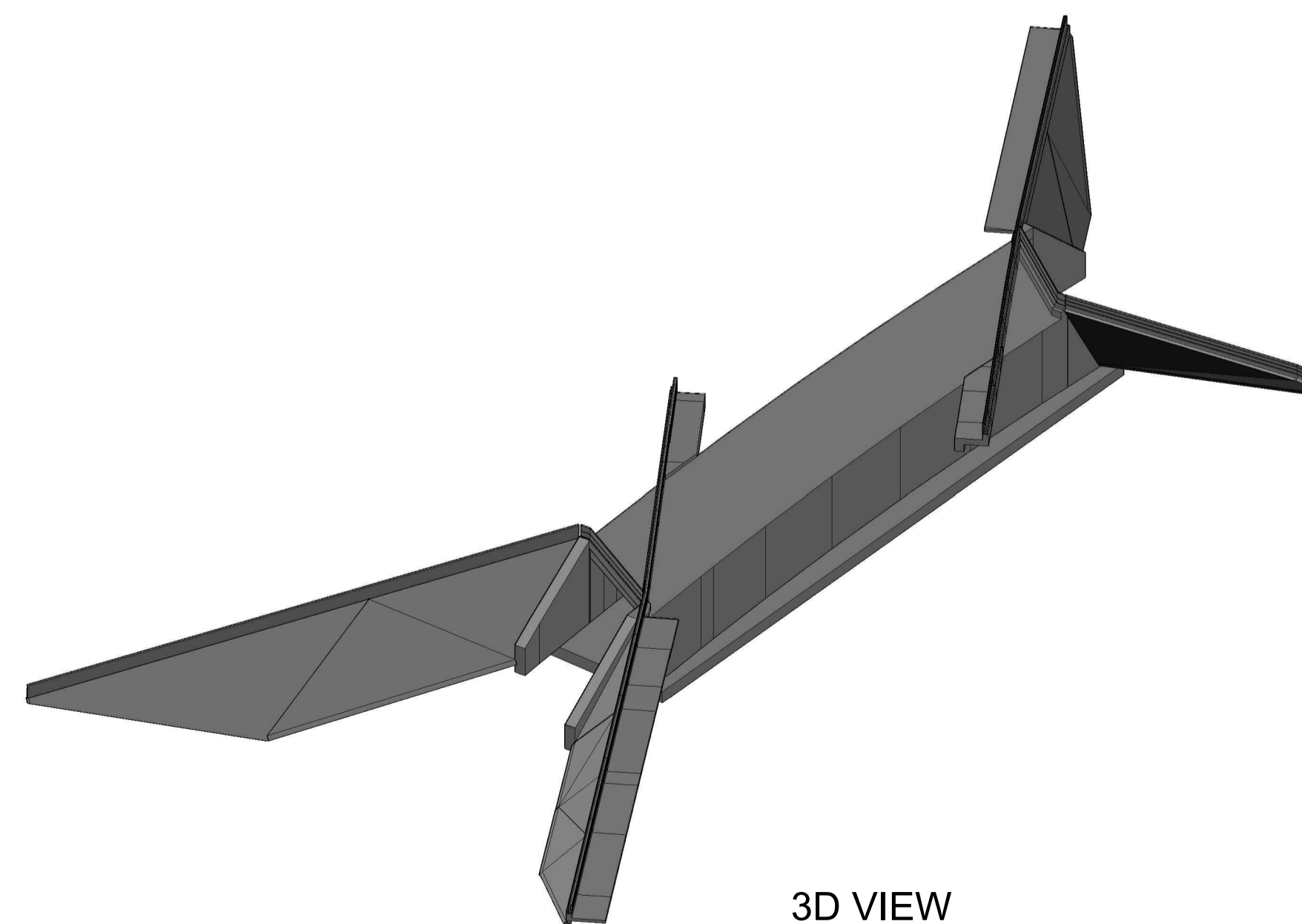
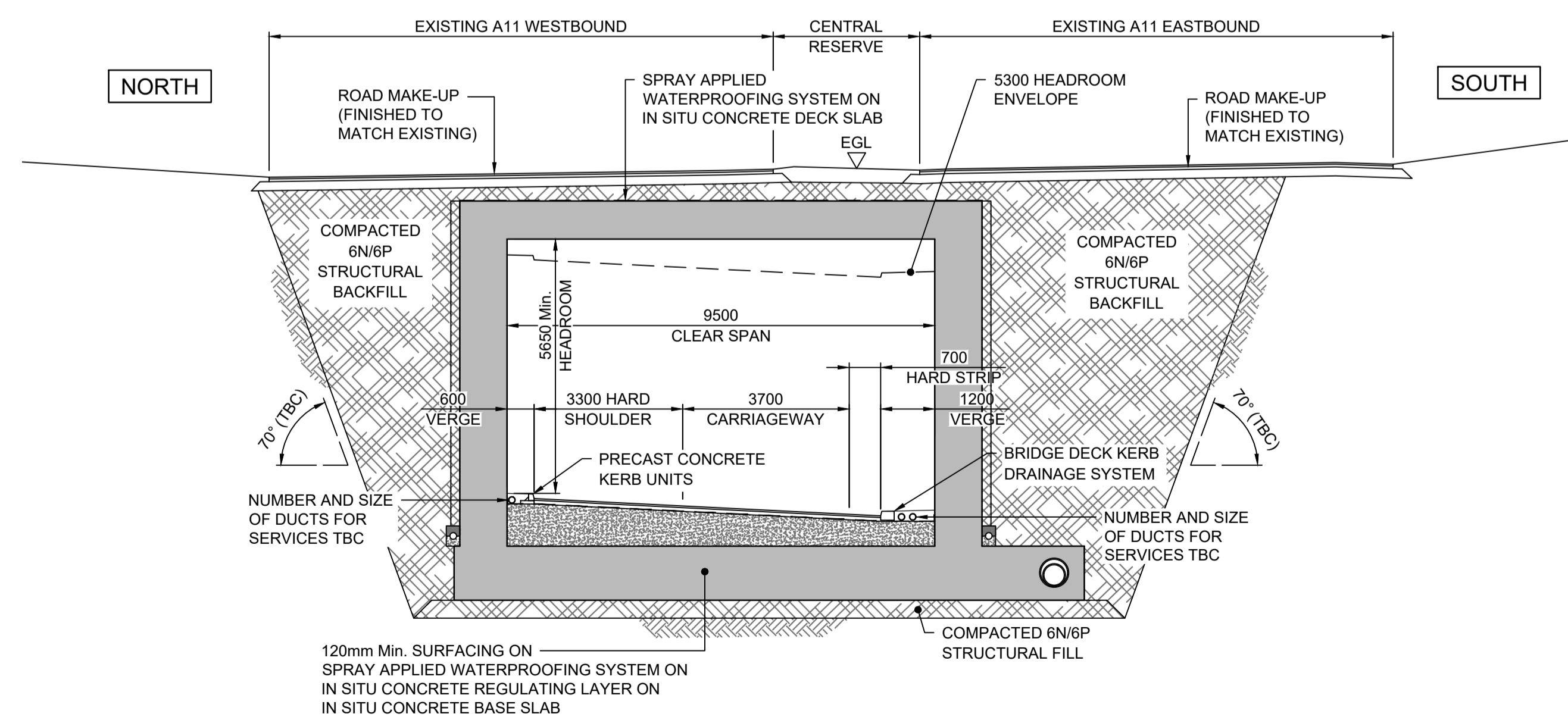
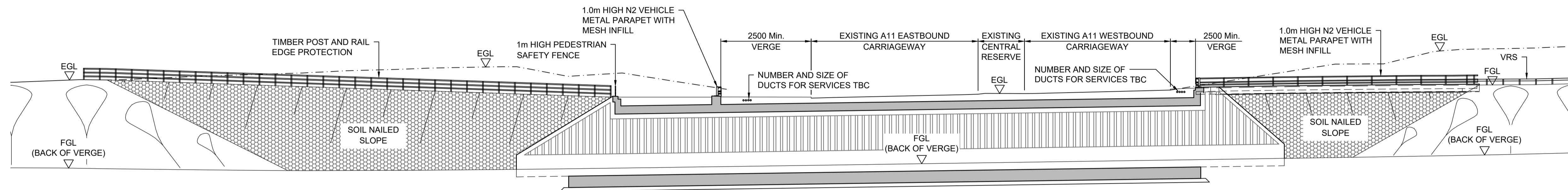
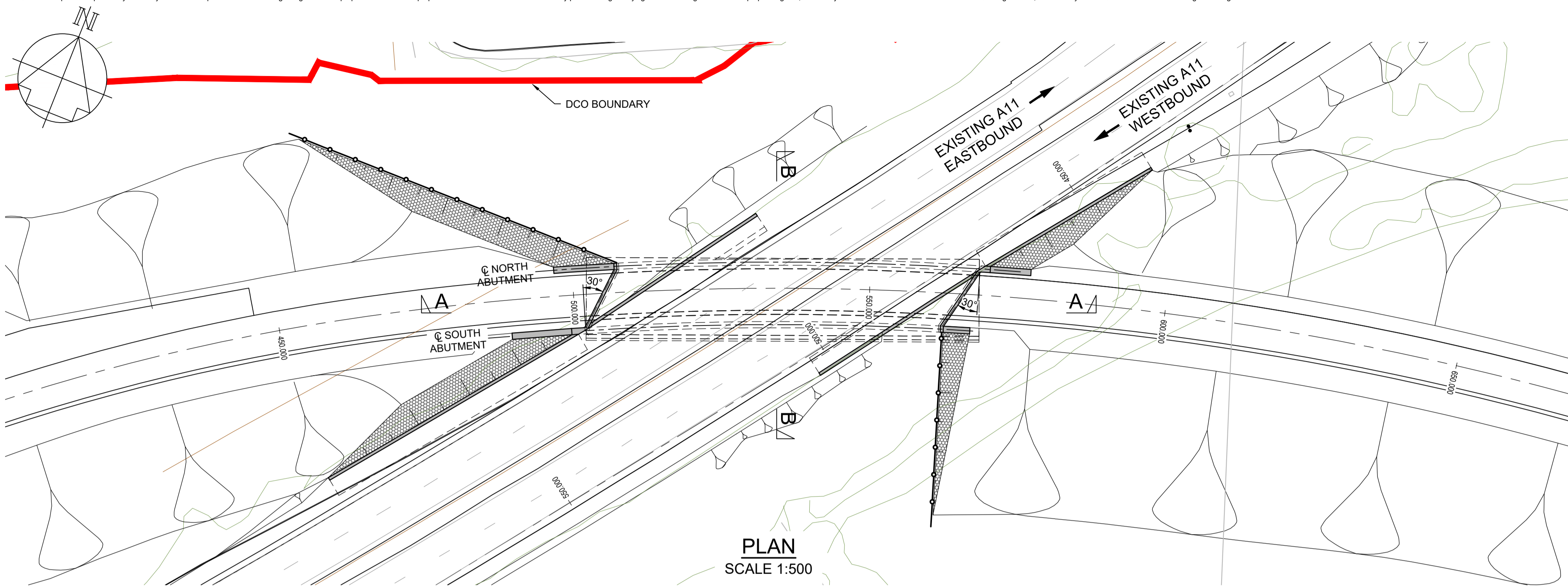
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**GENERAL ARRANGEMENT PLANS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS
S01A CANTLEY STREAM UNDERPASS**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE A1	SCALE AS SHOWN	STATUS A3	REVISION C01
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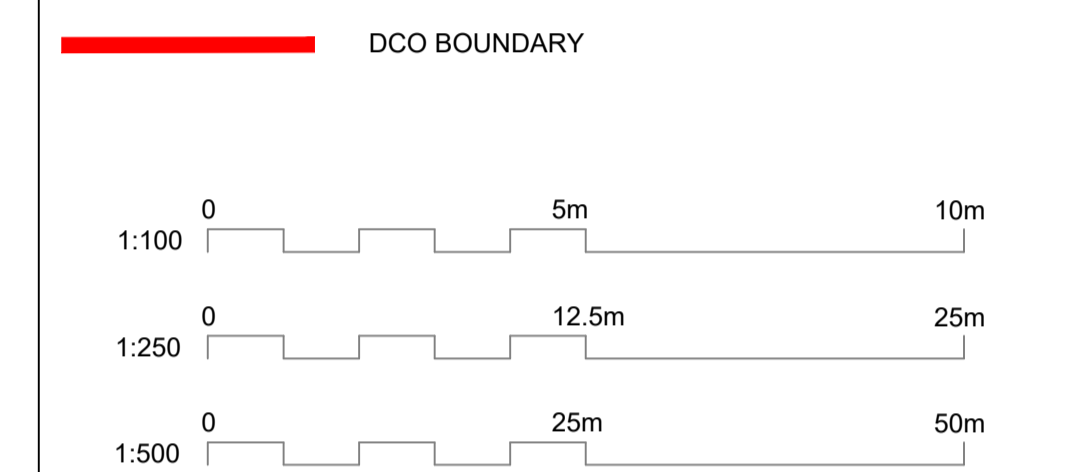
DRAWING NUMBER
HE551492-GTY-LSI-000-DR-CH-36021



NOTES

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FOR DCO SUBMISSION
- Development Consent Order Number / Document
TR010037/APP/2.7(I)
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KEY TO SYMBOLS



REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	10/12/20	FIRST ISSUE	AKno	JHar	JHar
P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE

A47/A11 THICKTHORN JUNCTION

PROJECT STAGE

PCF STAGE 3

DRAWING TITLE

**GENERAL ARRANGEMENT PLANS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS
S02 WARD'S WOOD UNDERPASS**

SUITABILITY

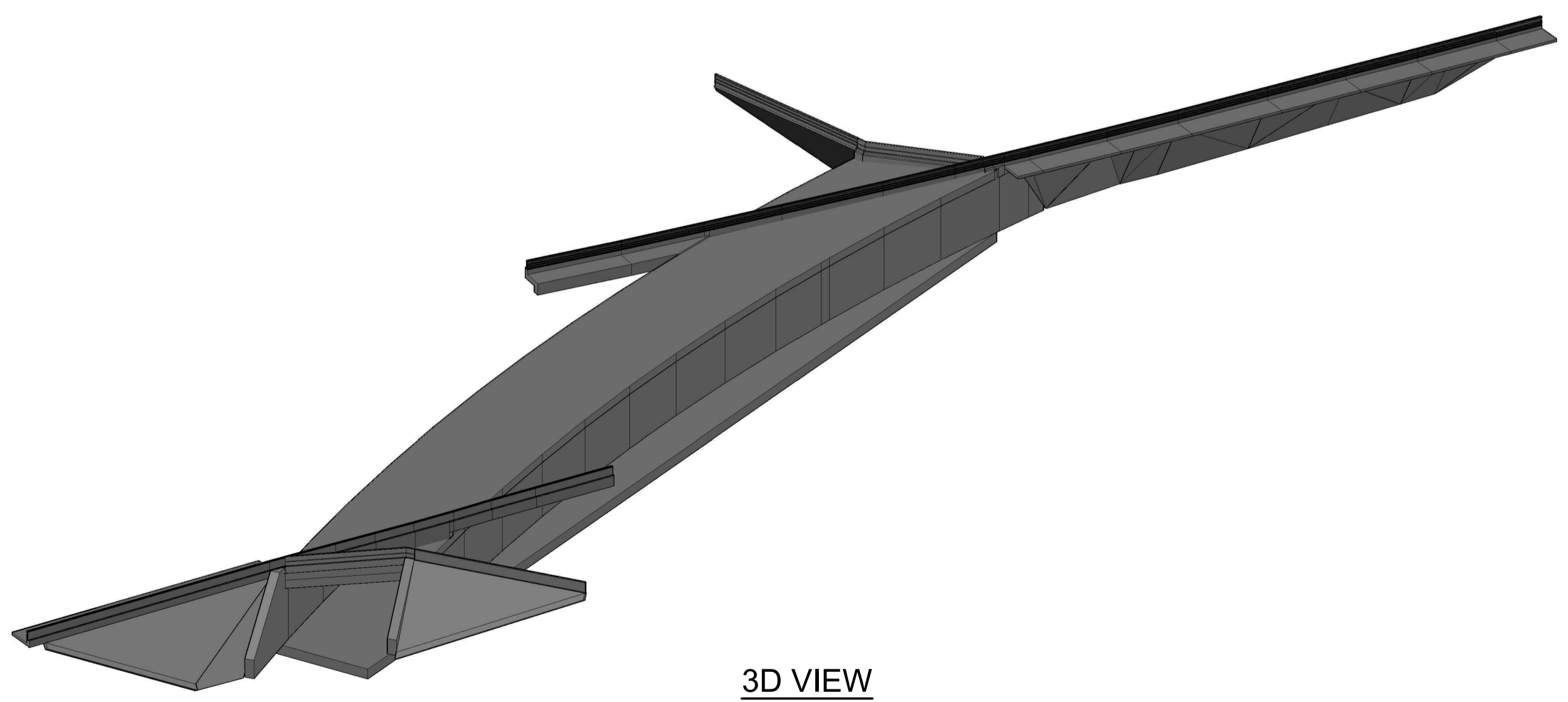
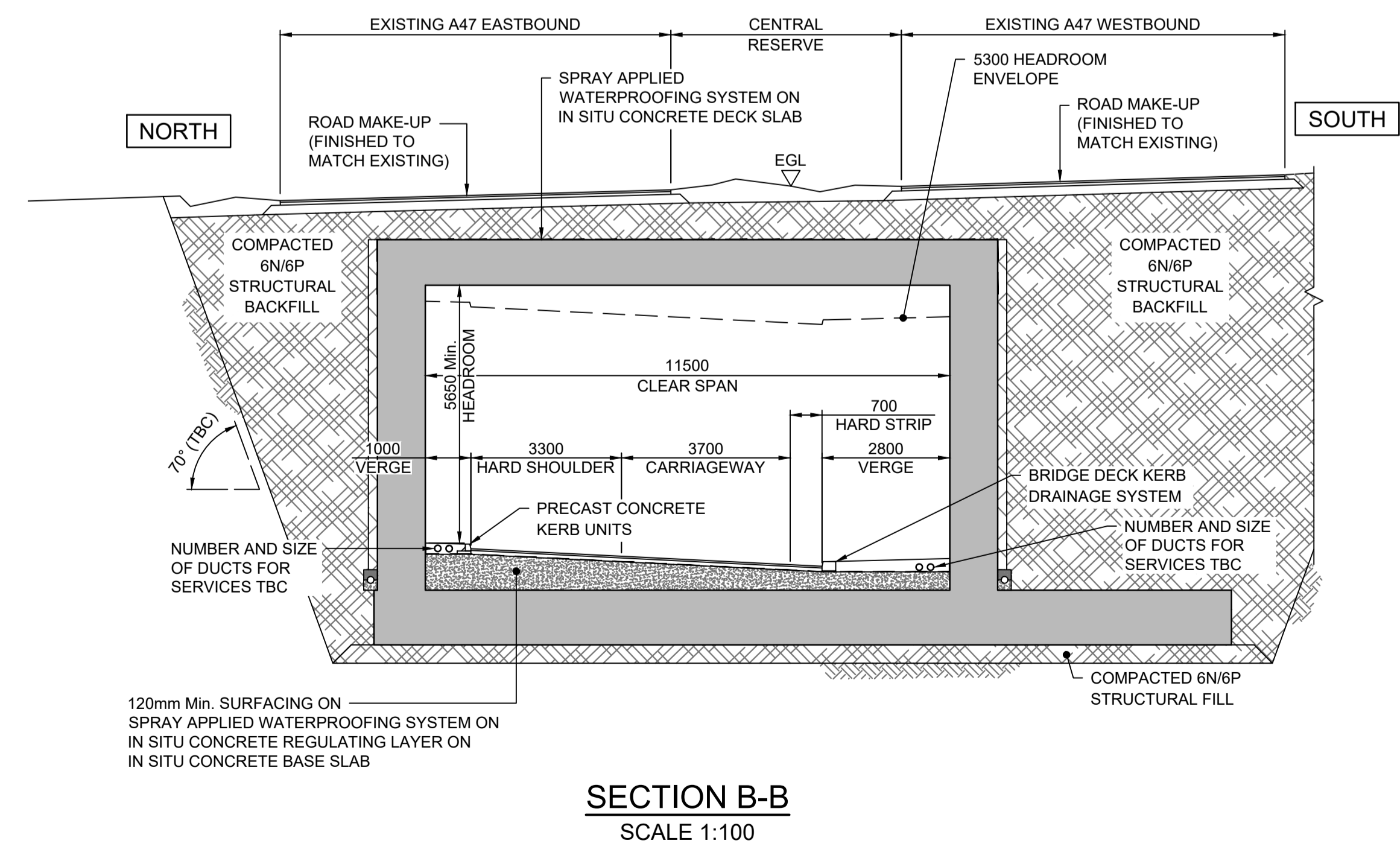
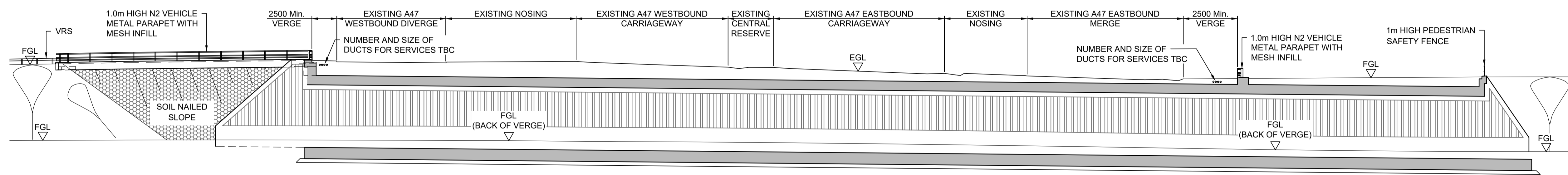
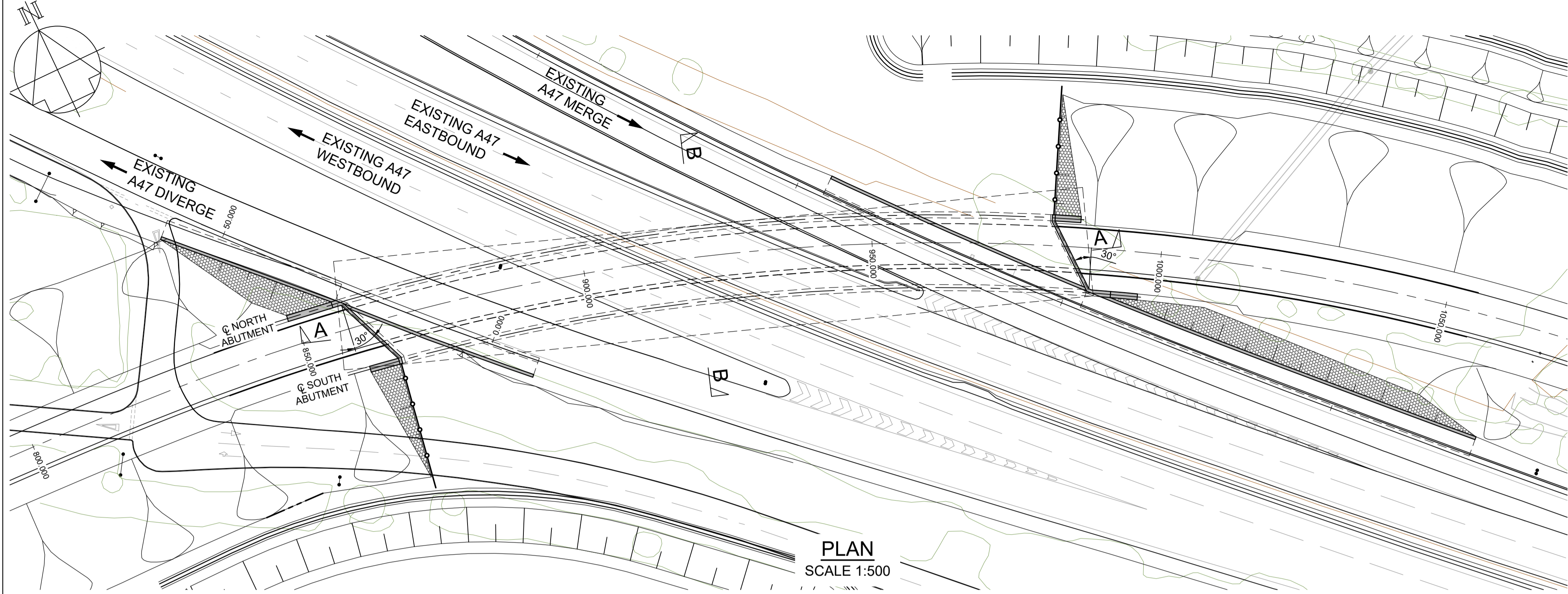
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	AS SHOWN	A3	C01

DRAWING NUMBER

HE551492-GTY-LSI-000-DR-CH-36022

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NOTES

Purpose of use
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Development Consent Order Number / Document
TR010037/APP/2.7(J)

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REV	DATE	REVISION NOTE	ORG	CHKD	APPD
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P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47/A11 THICKTHORN JUNCTION

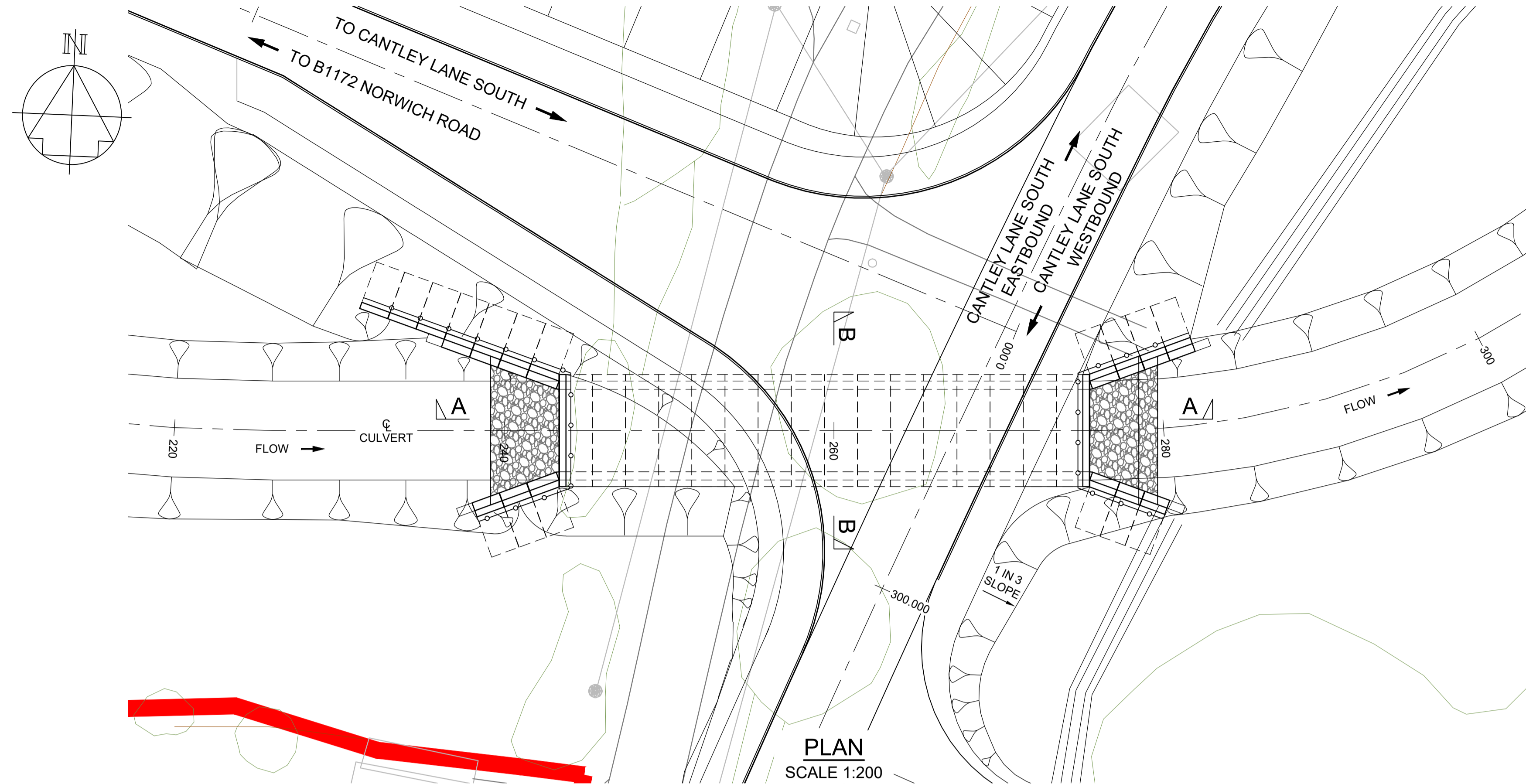
PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**GENERAL ARRANGEMENT PLANS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS
S04 CANTLEY LANE UNDERPASS**

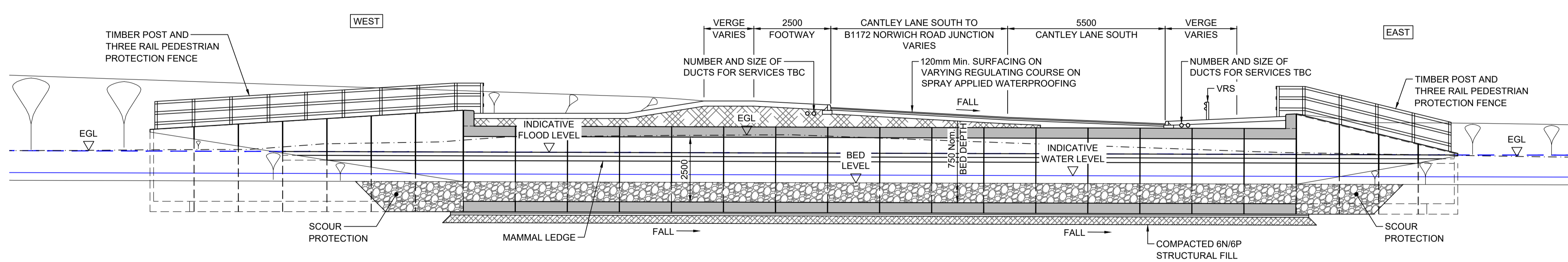
SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	AS SHOWN	A3	C01

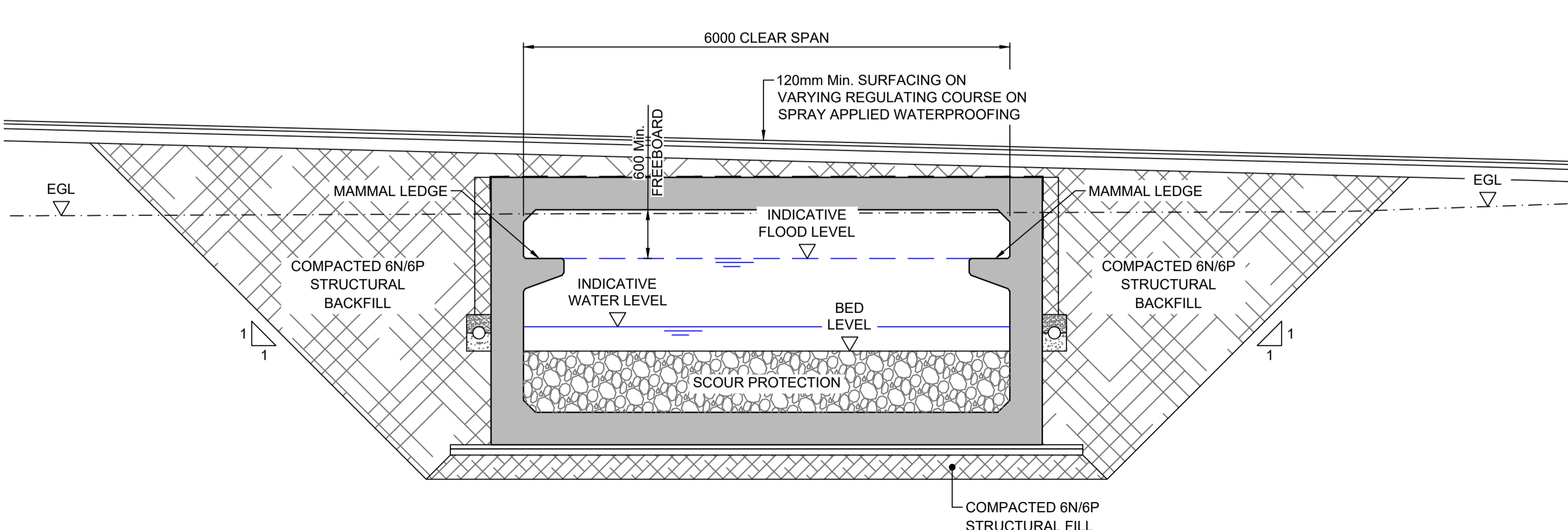
DRAWING NUMBER
HE551492-GTY-LSI-000-DR-CH-36023



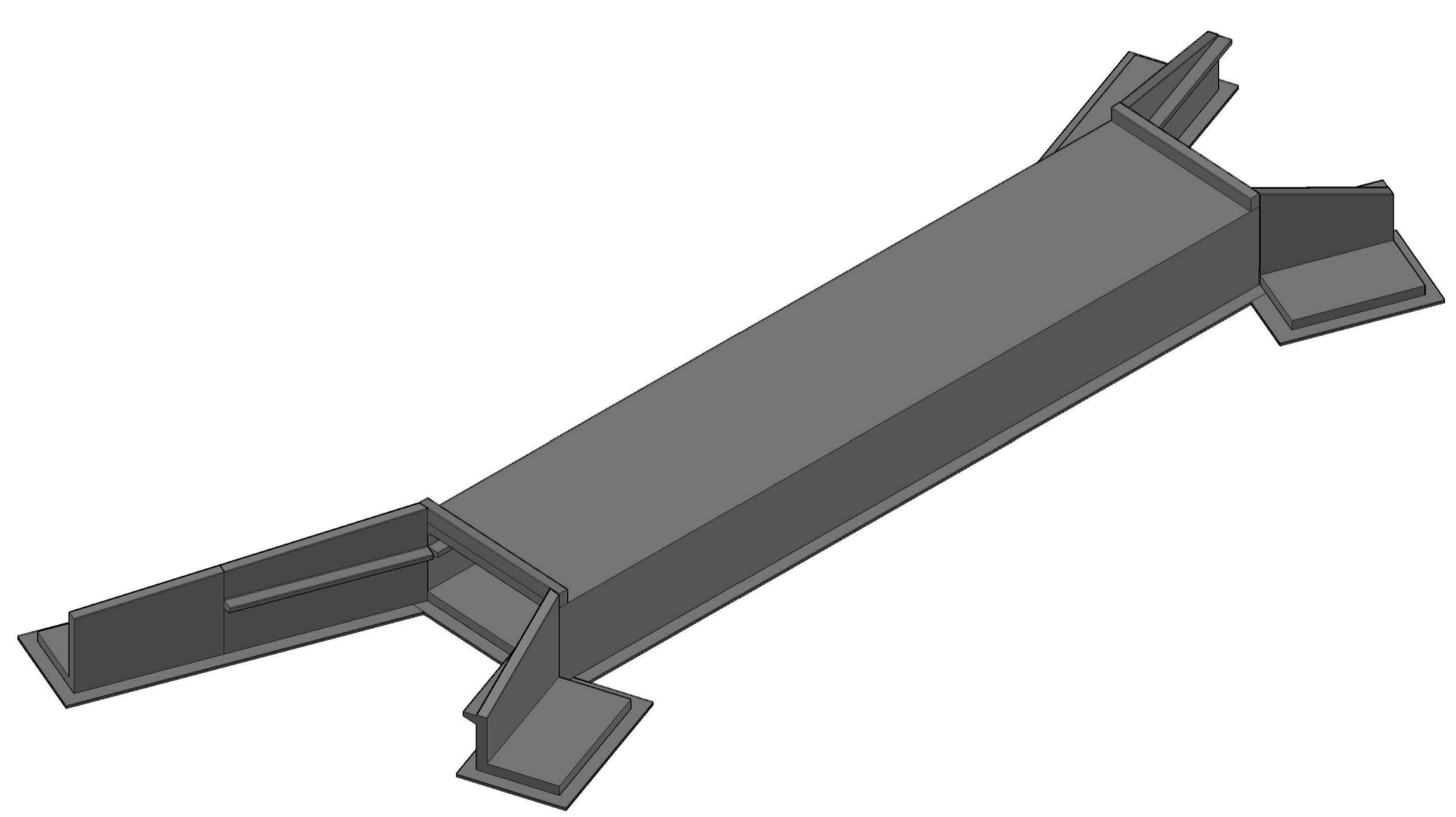
PLAN
SCALE 1:200



SECTION A-A
SCALE 1:100



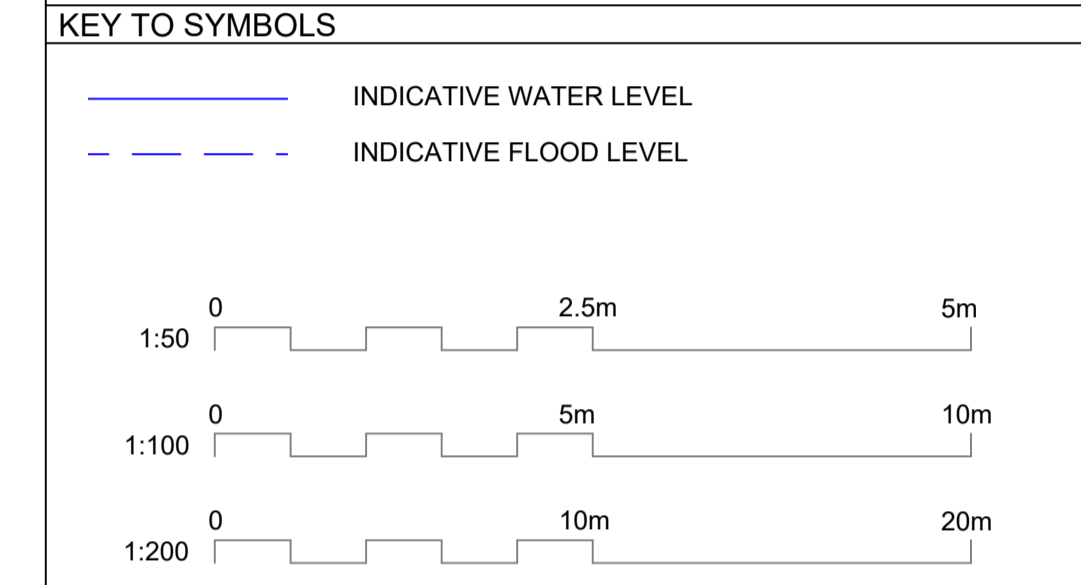
SECTION B-B
SCALE 1:50



3D VIEW
SCALE 1:200

NOTES

- Purpose of use
FOR DCO SUBMISSION
- Development Consent Order Number / Document
TR010037/APP/2.7(K)
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P02	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47/A11 THICKTHORN JUNCTION

PROJECT STAGE
PCF STAGE 3

DRAWING TITLE
**GENERAL ARRANGEMENT PLANS
REGULATION 5(2)(o) & 6(2)(a)
STRUCTURES DRAWINGS
S46 CANTLEY LANE SOUTH CULVERT**

SUITABILITY
AUTHORISED AS STAGE 3 COMPLETED

SHEET SIZE	SCALE	STATUS	REVISION
A1	AS SHOWN	A3	C01

DRAWING NUMBER
HE551492-GTY-LSI-000-DR-CH-36024