

A1 Birtley to Coal House

Scheme Number: TR010031

2.7 Structures Engineering Drawings and Sections





Infrastructure Planning

Planning Act 2008

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

The A1 Birtley to Coal House

Development Consent Order 20[xx]

STRUCTURES ENGINEERING DRAWINGS AND SECTIONS

Regulation Reference:	APFP Regulation 5(2)(o)		
Planning Inspectorate Scheme	TR010031		
Reference			
Application Document Reference	TR010031/APP/2.7		
Author:	A1 Birtley to Coal House Project Team,		
	Highways England		

Version	Date	Status of Version
Rev 0	14/08/19	Application Issue
Rev 1	25/02/20	Examination Deadline 2 Issue
Rev 2	20/04/20	Examination Deadline 4 Issue



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1 INTRODUCTION

1.1 Purpose of this Document

- 1.1.1 These Structures Engineering Drawings and Sections (the "Drawings") relates to an application made by Highways England (the "Applicant") to the Secretary of State for Transport via the Planning Inspectorate under the Planning Act 2008 (the "2008 Act") for a Development Consent Order (DCO). If made, the DCO would grant consent for the A1 Birtley to Coal House (the "Scheme"). A detailed description of the Scheme can be found in **Chapter 2** of the Environmental Statement (ES) (Application Document Reference: TR010031/APP/6.1).
- 1.1.2 These drawings have been amended since the previous version [REP2-042] by the inclusion of additional land with the order limits to the south of Allerdene Railway Bridge as shown on the key plan drawing no. TR010031/APP/2.7(A). They also allow the inclusion of additional engineering options within the order limits as shown on drawing no. TR010031/APP/2.7(B1) and TR010031/APP/2.7(C1) in relation to narrower lanes on Kingsway Viaduct; and in respect of a three-span viaduct option for the proposed Allerdene Railway Bridge as shown on drawing no. TR010031/APP/2.7(F1).
- 1.1.3 The Applicant has submitted a request to the Examining Authority [AS-009] to amend the Order limits to include additional land to be subject to powers of temporary possession that is required for a construction compound and materials stockpile, and to accommodate these additional engineering options. Should the amendments to the application be admitted by the Examining Authority these drawings should be substituted for those shown in the table in section 2 of this document.
- 1.1.4 These Drawings comprises part of the suite of Application documentation and are included in the Application in compliance with Regulation 5(2)(o), of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, 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."
- 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 Application documentation, they should be read alongside and are informed by the other Application documents. In particular, the Drawings should be read alongside Schedule 1 of the draft Development Consent Order (Application Document Reference: TR010031/APP/3.1), the Engineering Section Drawings (Application Document Reference: TR010031/APP/2.5) and the General Arrangement Plan (Application Document Reference: TR010031/APP/2.6).

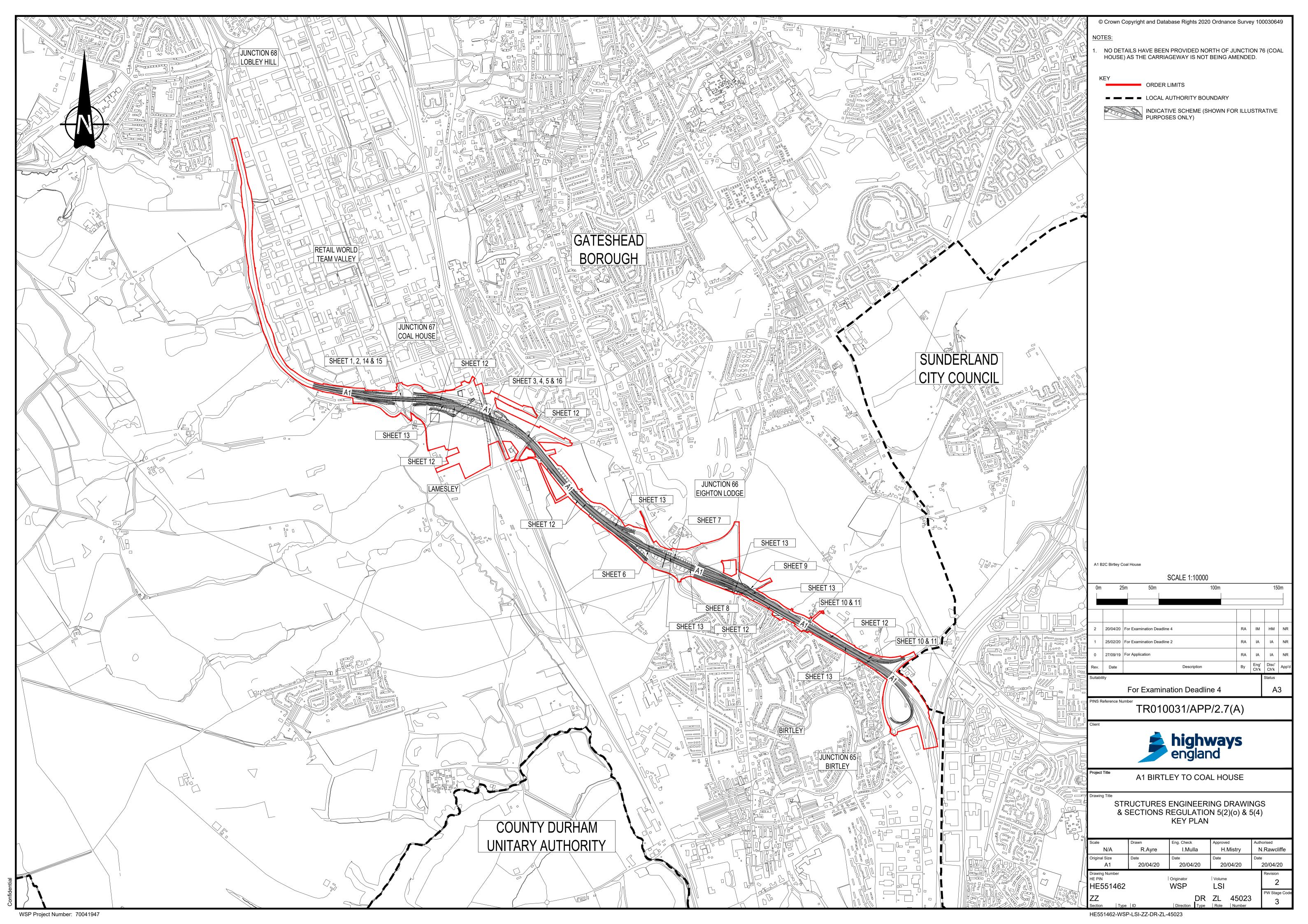


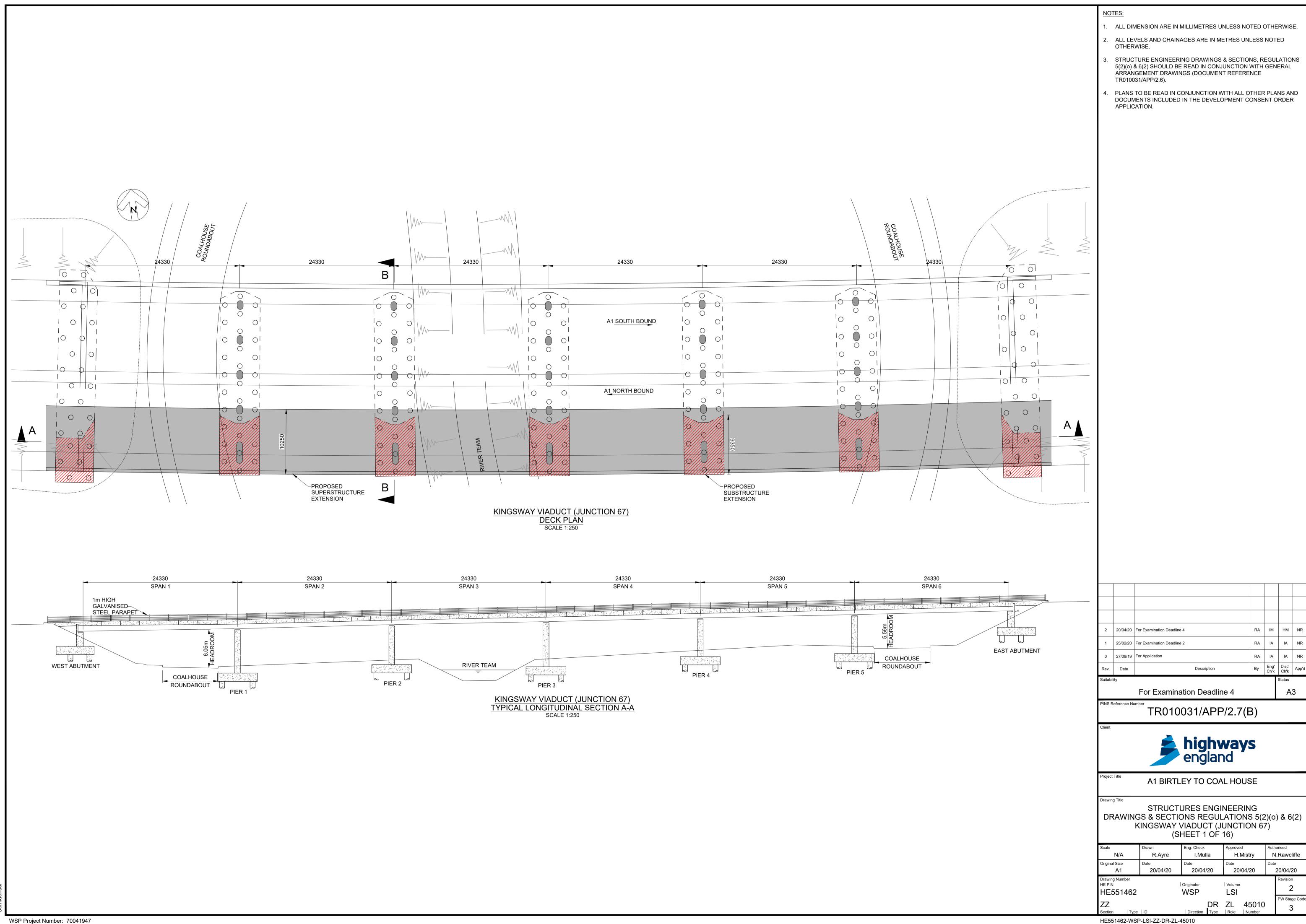
2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

Document Title	Document Number	Revision	Change(s)
Structures Engineering Drawings & Sections Regulation 5(2)(o) & 5(4) Key Plan	TR010031/A PP/2.7(A)		Plan updated with red line boundary inclusive of additional plot of land to the south of Allerdene Railway Bridge.
Structures Engineering Drawings & Sections Regulation 5(2)(o) Kingsway Viaduct (Junction 67) Sheet 1 of 16	TR010031/A PP/2.7(B)	Rev 2	Sheet no. amended from 1 of 14 to 1 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Kingsway Viaduct (Junction 67) Sheet 2 of 16	TR010031/A PP/2.7(C)	Rev 2	Sheet no. amended from 2 of 14 to 2 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Allerdene Bridge (Embankment Option) Sheet 3 of 16	TR010031/A PP/2.7(D)	Rev 2	Sheet no. amended from 3 of 14 to 3 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Allerdene Bridge (6 Span Viaduct Option) Sheet 4 of 16	TR010031/A PP/2.7(E)	Rev 2	Sheet no. amended from 4 of 14 to 4 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Allerdene Bridge (7 Span Viaduct Option) Sheet 5 of 16	TR010031/A PP/2.7(F)	Rev 2	Sheet no. amended from 5 of 14 to 5 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Eighton Lodge Slip Road Underbridge Sheet 6 of 16	TR010031/A PP/2.7(G)	Rev 2	Sheet no. amended from 6 of 14 to 6 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) Eighton Lodge North Underbridge Sheet 7 of 16	TR010031/A PP/2.7(H)	Rev 2	Sheet no. amended from 7 of 14 to 7 of 16

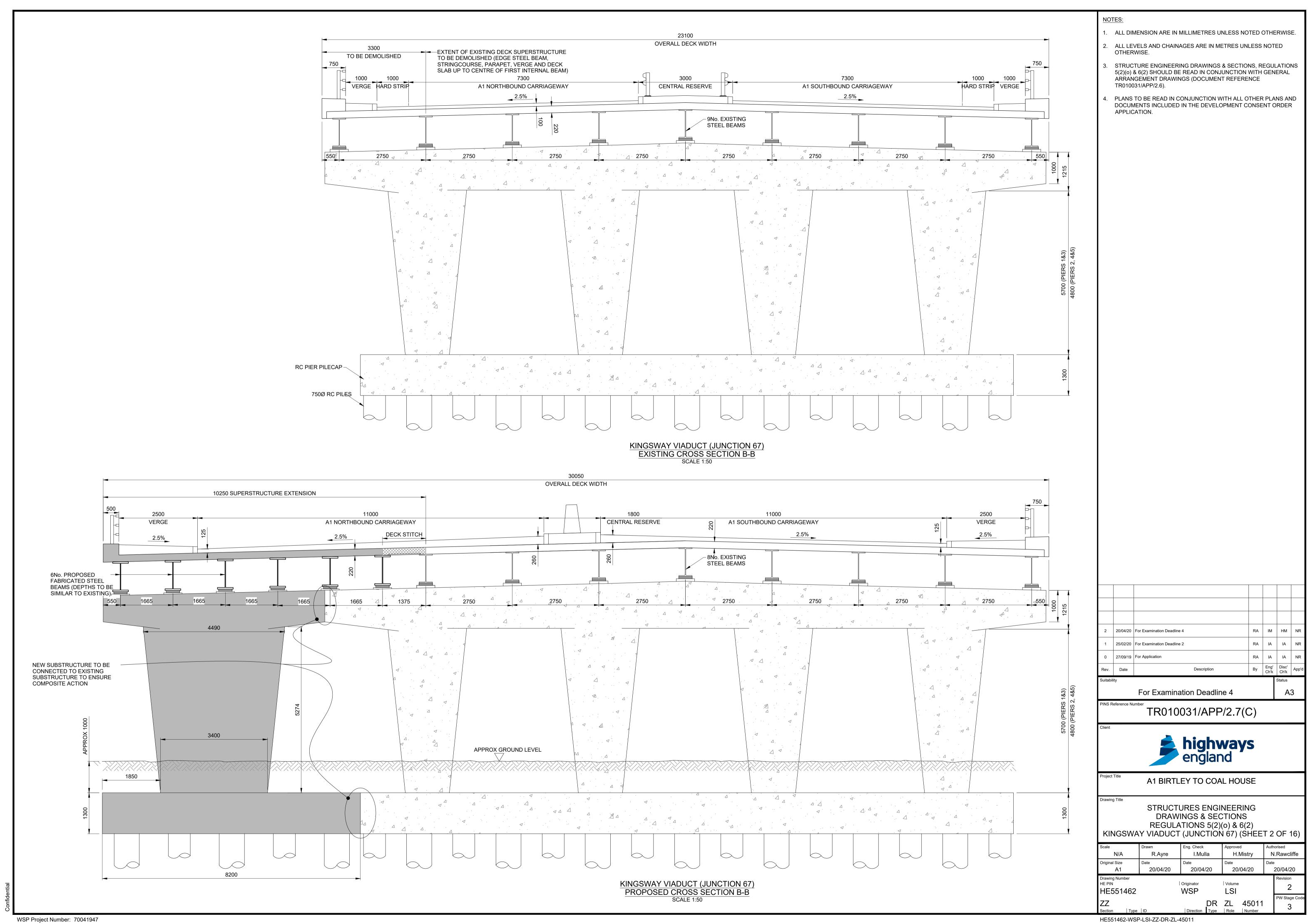


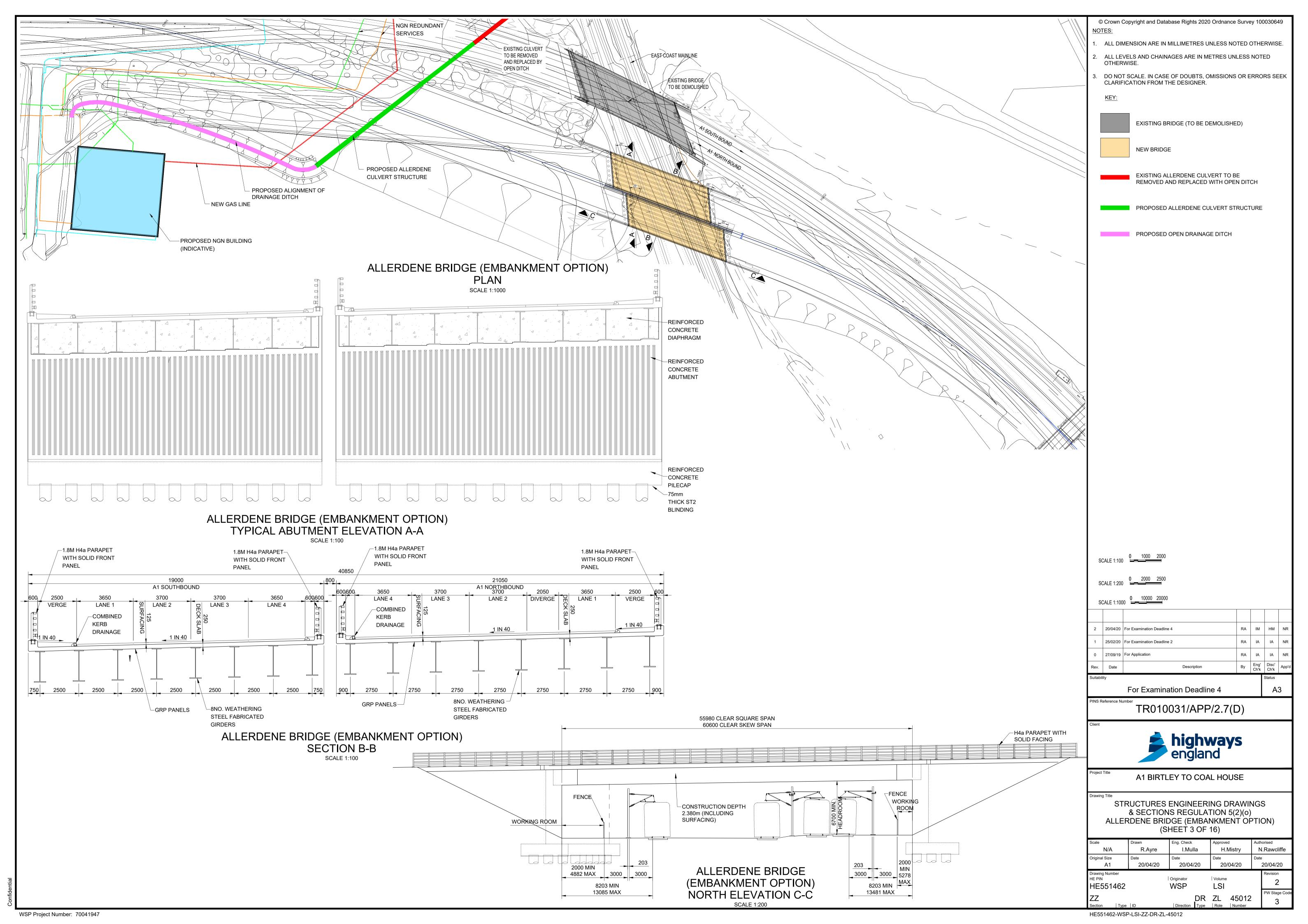
Structures Engineering Drawings & Sections Regulation 5(2)(o) Eighton Lodge South Underbridge Sheet 8 of 16	TR010031/A PP/2.7(I)	Rev 2	Sheet no. amended from 8 of 14 to 8 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(0) Longbank Underpass Sheet 9 of 16	TR010031/A PP/2.7(J)	Rev 2	Sheet no. amended from 9 of 14 to 9 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) North Dene Footbridge Sheet 10 of 16	TR010031/A PP/2.7(K)	Rev 2	Sheet no. amended from 10 of 14 to 10 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(o) North Dene Footbridge Sheet 11 of 16	TR010031/A PP/2.7(L)	Rev 2	Sheet no. amended from 11 of 14 to 11 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(0) Typical ADS Gantry – Truss Cantilever Type Sheet 12 of 16	TR010031/A PP/2.7(M)	Rev 2	Sheet no. amended from 12 of 14 to 12 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(0) Typical ADS Gantry Portal Type Sheet 13 of 16	TR010031/A PP/2.7(N)	Rev 2	Sheet no. amended from 13 of 14 to 13 of 16
Structures Engineering Drawings & Sections Regulation 5(2)(0) Kingsway Viaduct Narrow Lanes (Junction 67) Sheet 14 of 16	TR010031/A PP/2.7(B1)	Rev 0	New drawing (sheet 14 of 16) added to show narrower lanes option on Kingsway Viaduct.
Structures Engineering Drawings & Sections Regulation 5(2)(o) Kingsway Viaduct Narrow Lanes (Junction 67) Sheet 15 of 16	TR010031/A PP/2.7(C1)		New drawing (sheet 15 of 16) added to show narrower lanes option on Kingsway Viaduct.
Structures Engineering Drawings & Sections Regulation 5(2)(o) Allerdene Bridge (3 Span Viaduct Option) Sheet 16 of 16	TR010031/A PP/2.7(F1)	Rev 0	New drawing (sheet 16 of 16) added to show 3 span option for Allerdene Railway Bridge.

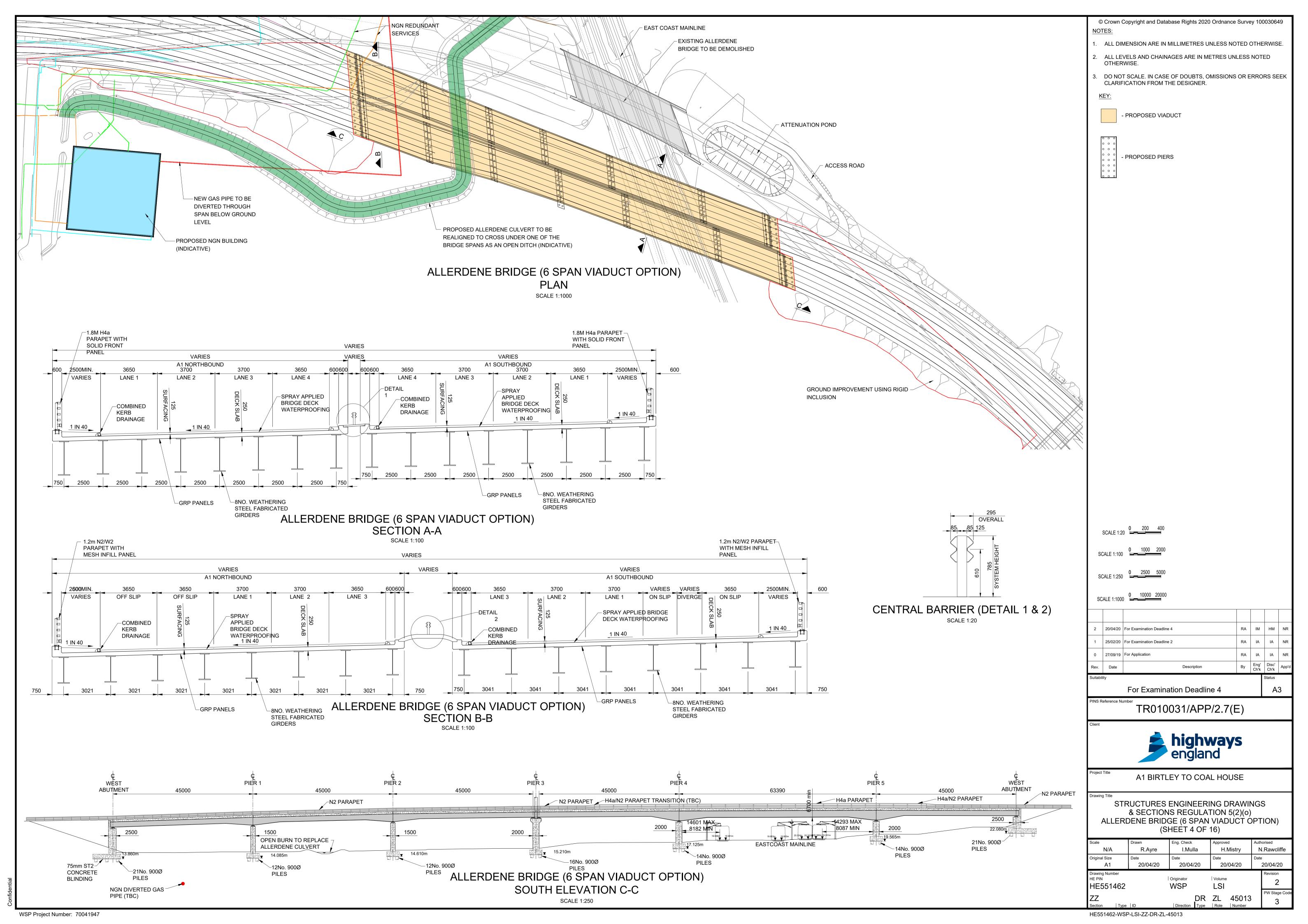


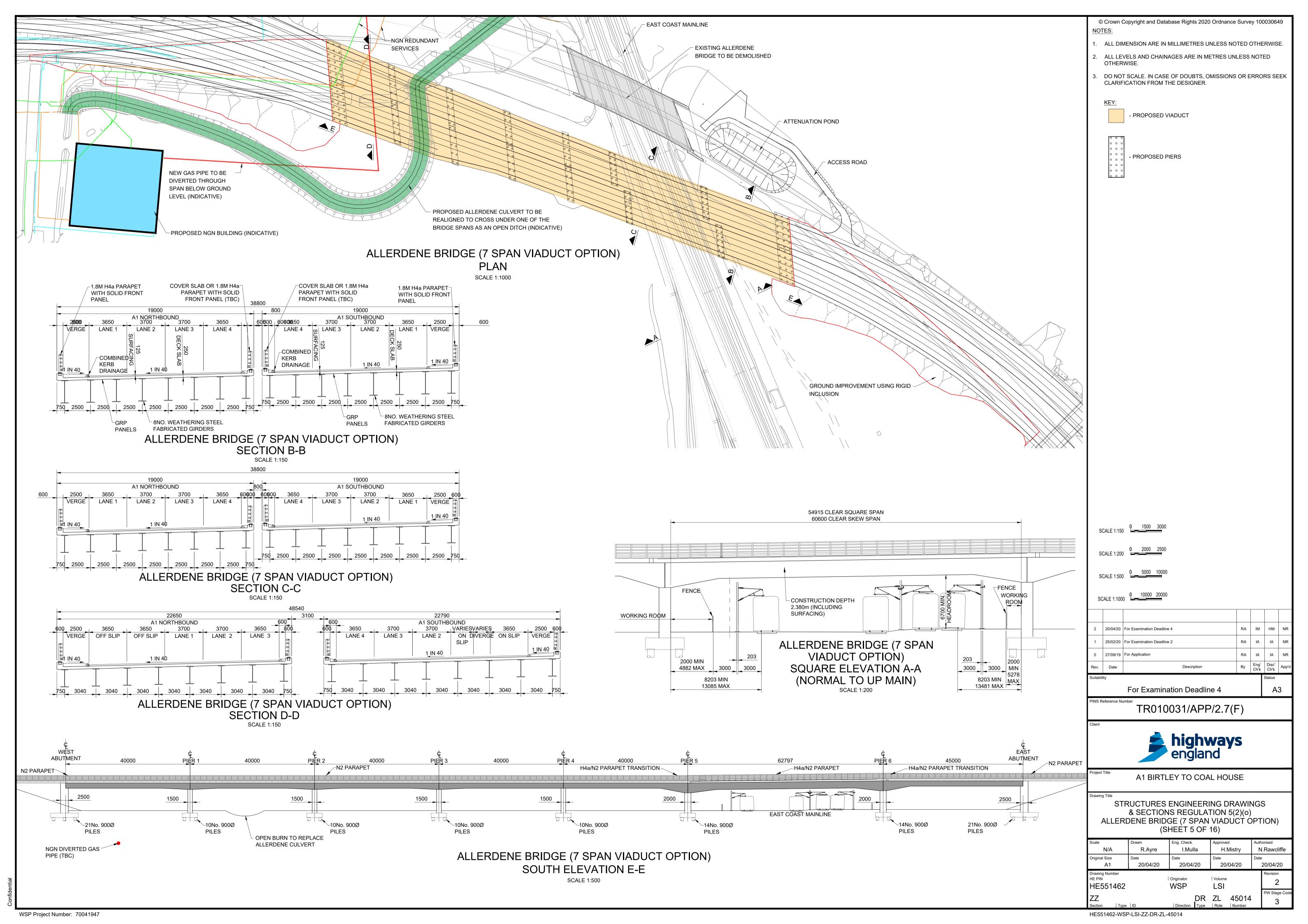


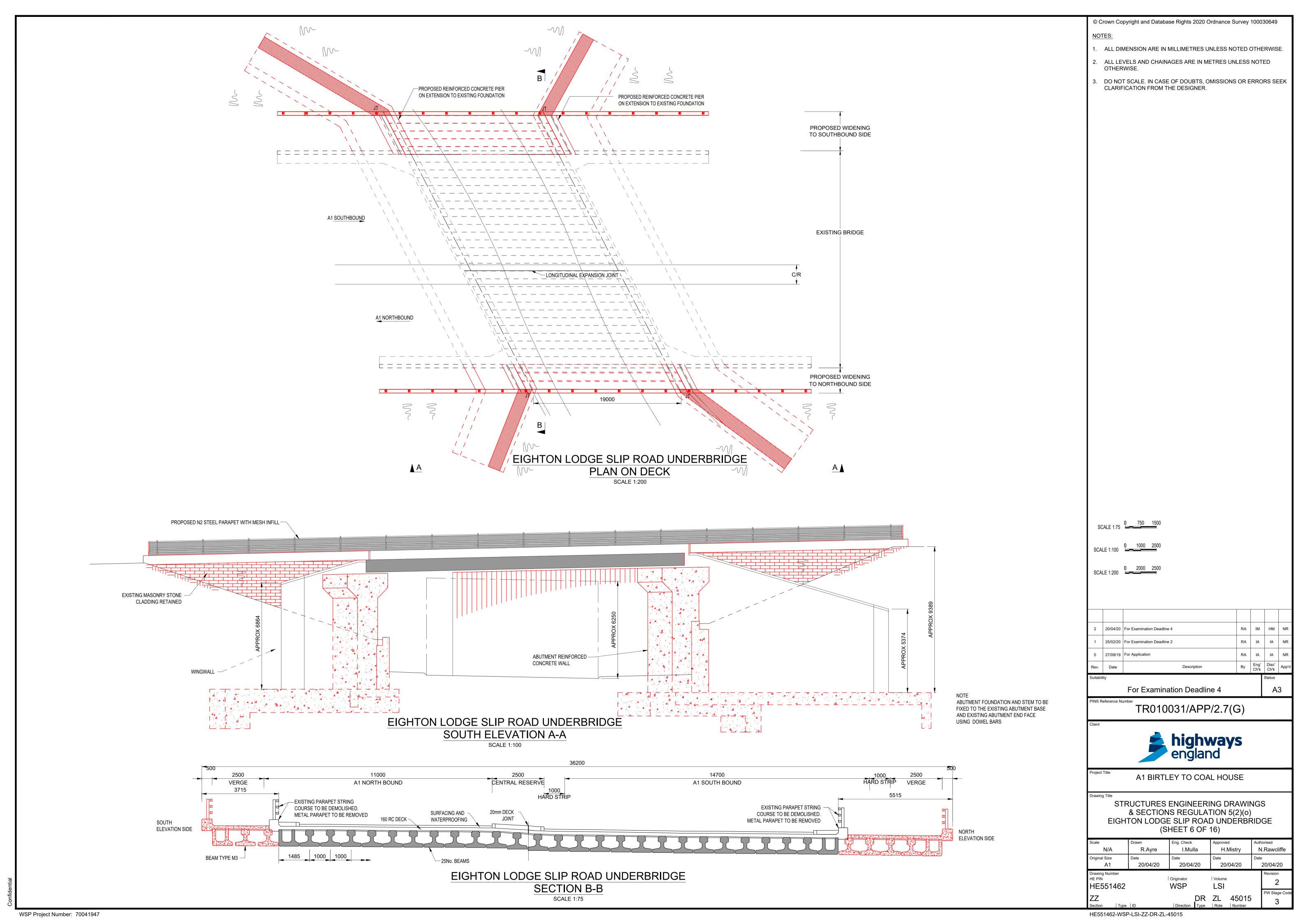
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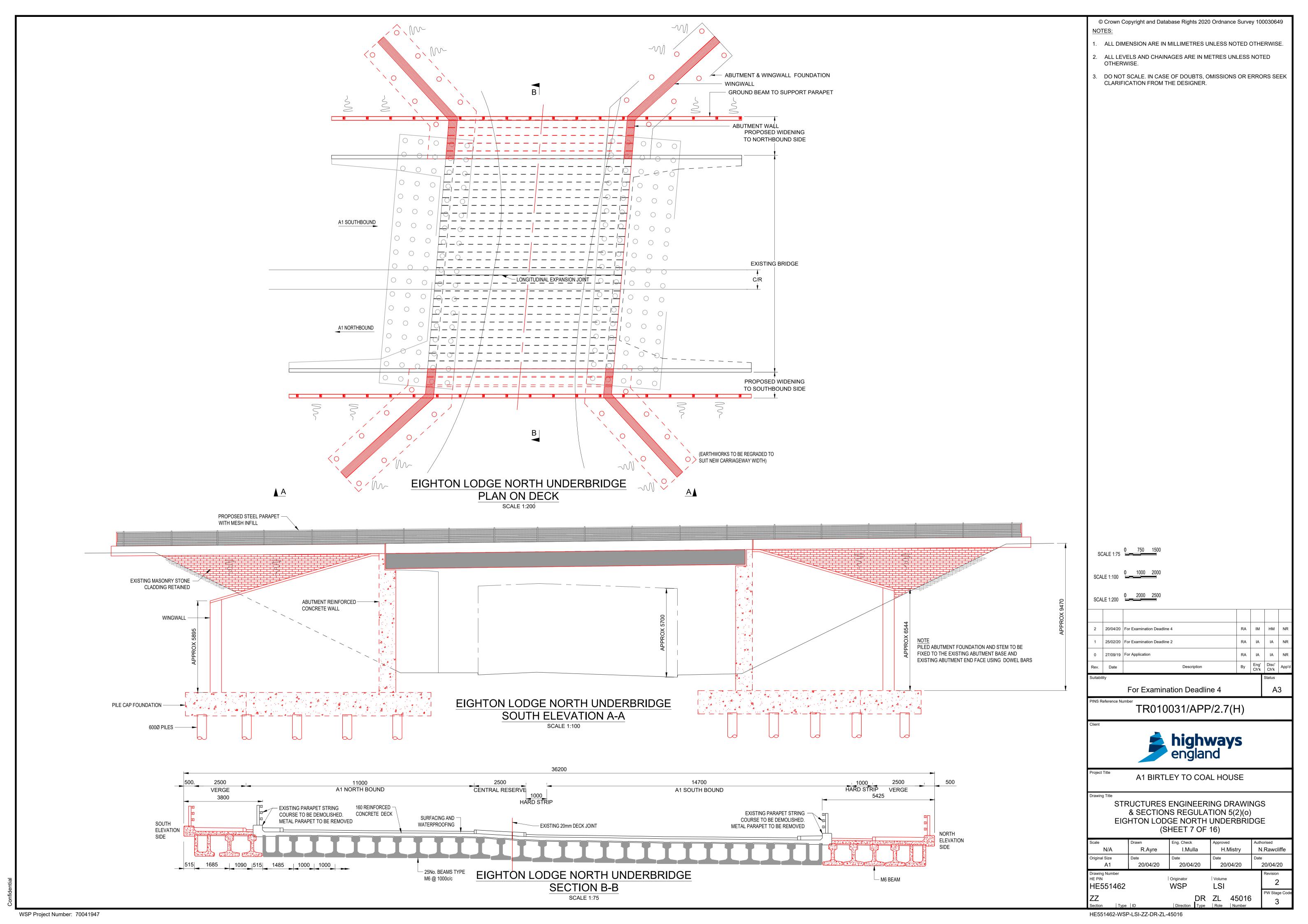


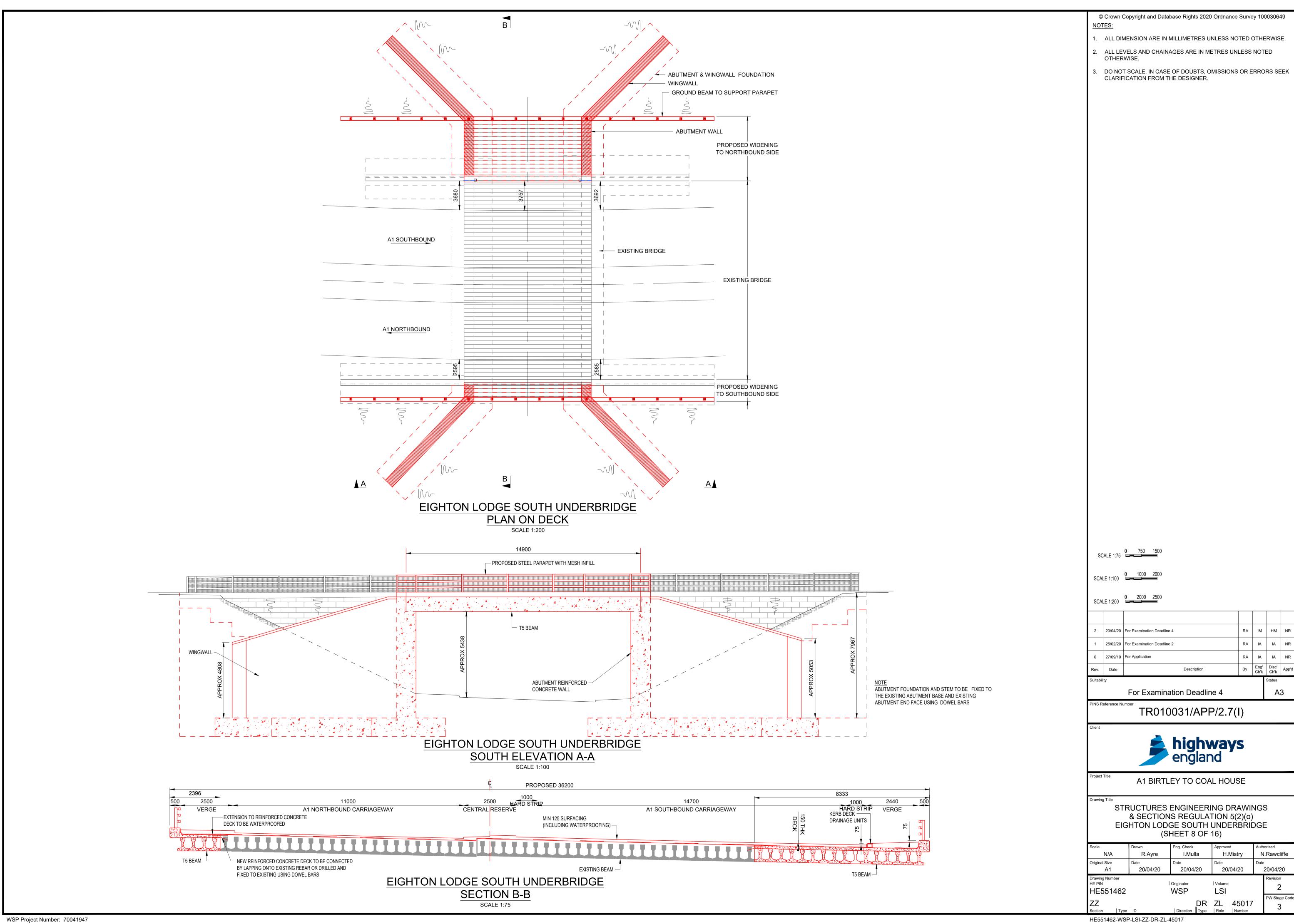


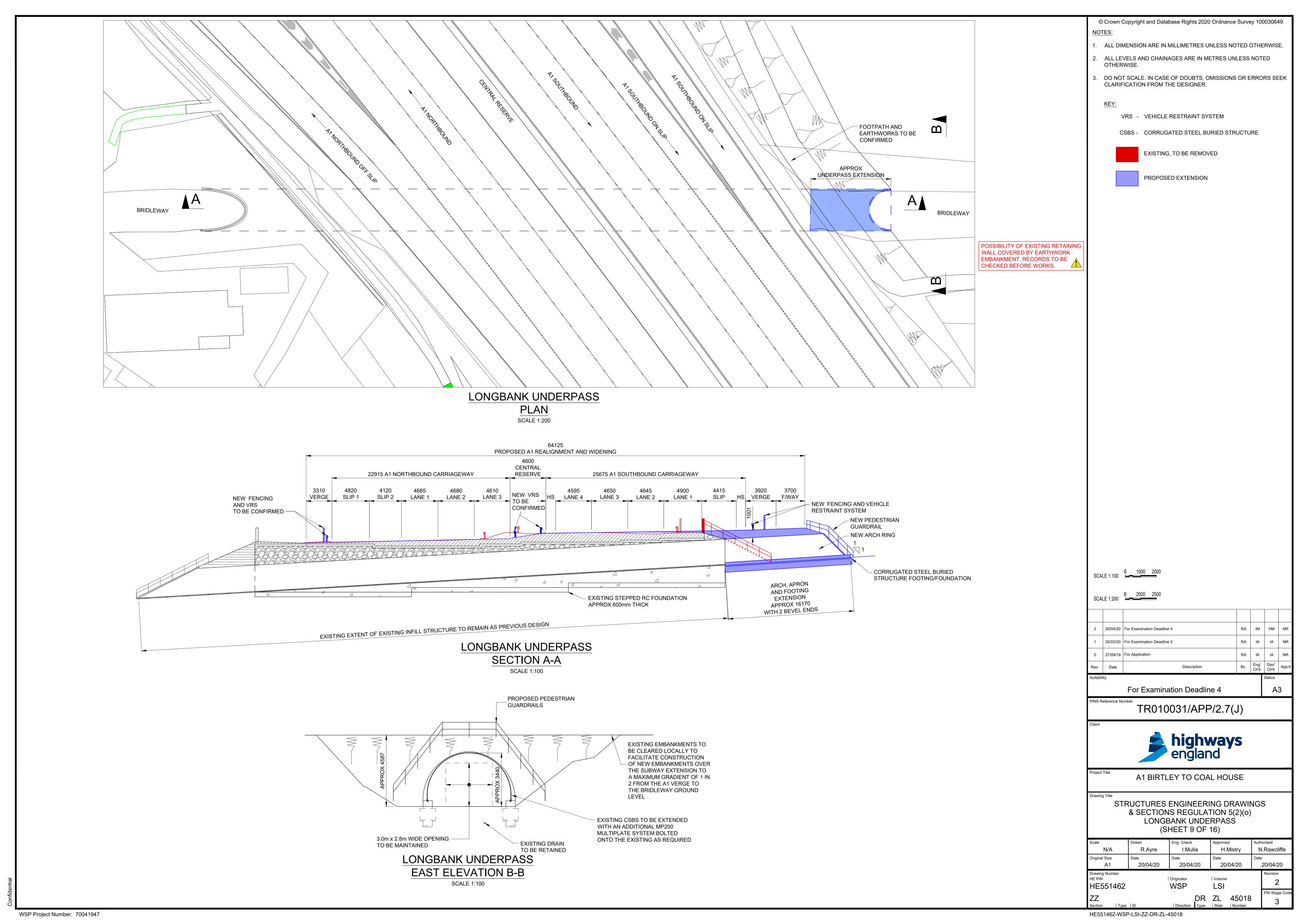


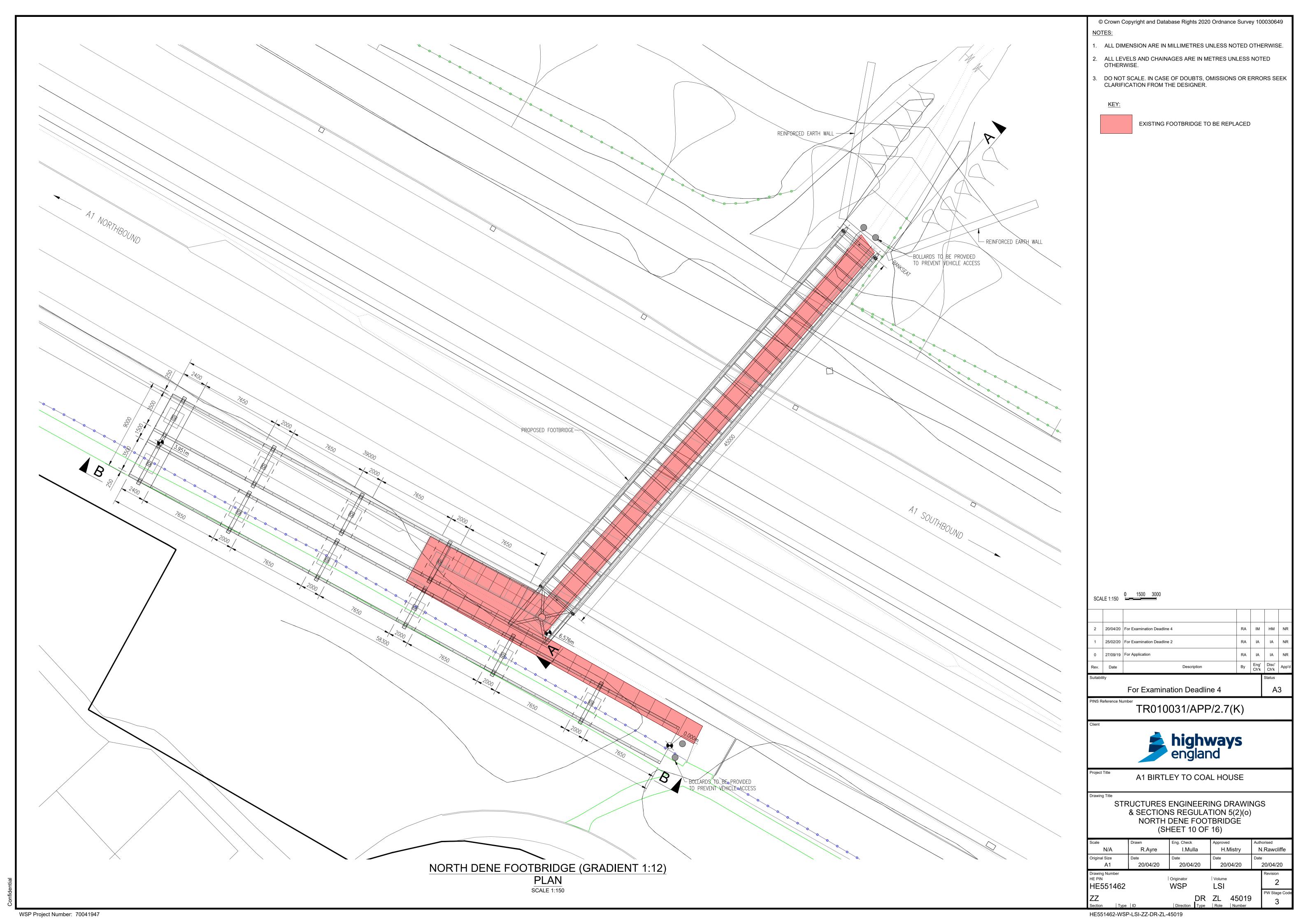


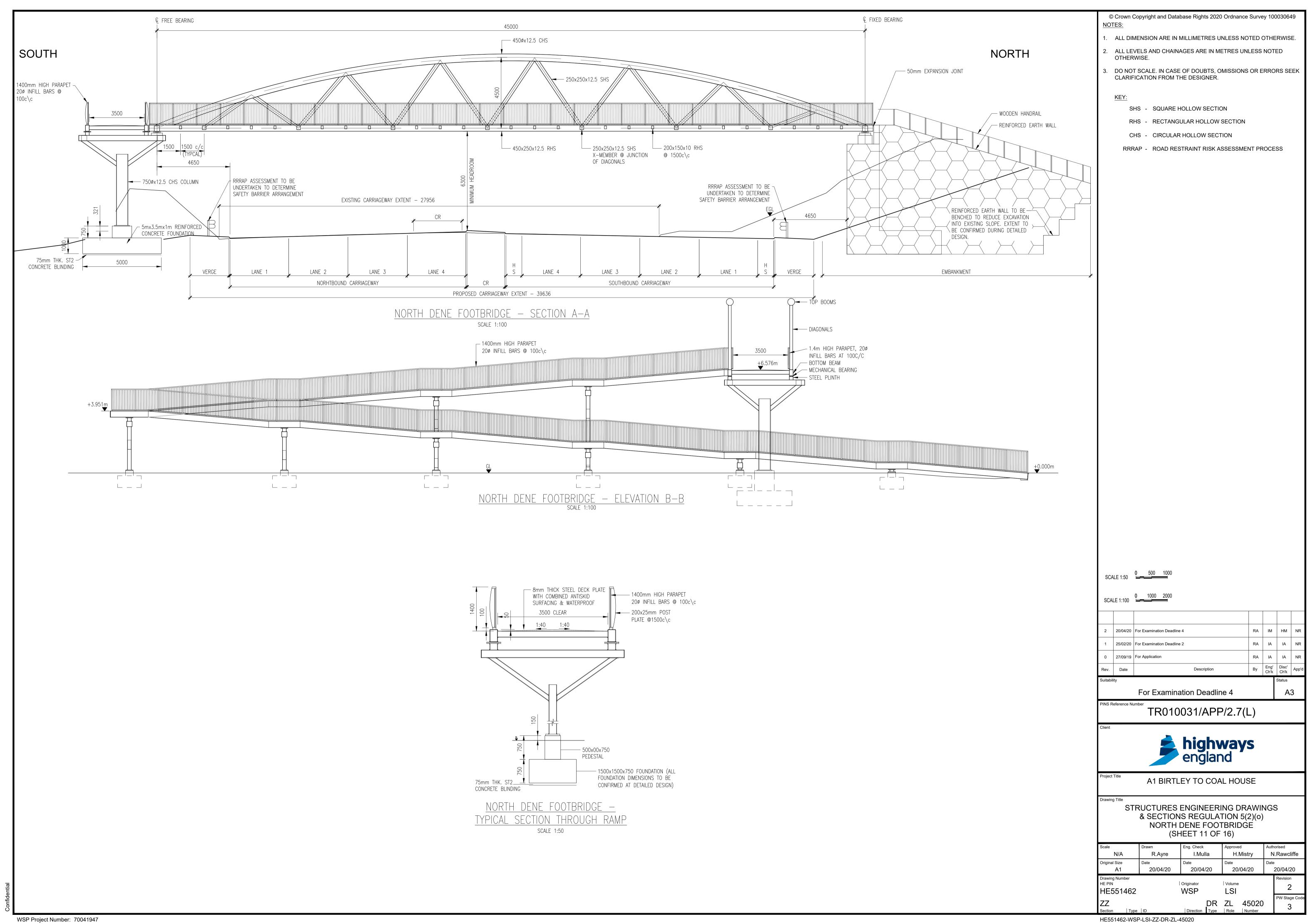


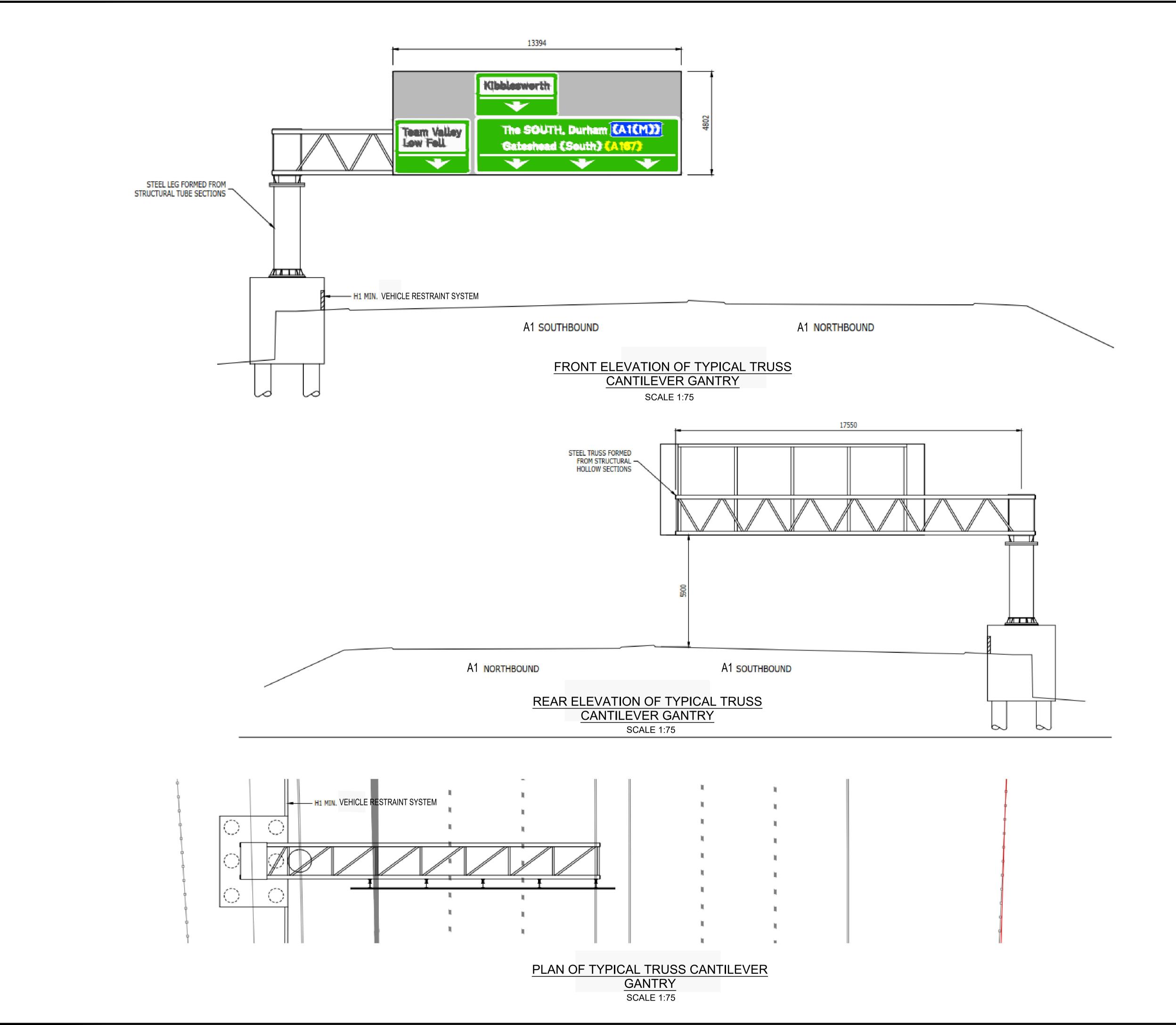












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 - 2. ALL LEVELS AND CHAINAGES ARE IN METRES UNLESS NOTED
- 3. DO NOT SCALE. IN CASE OF DOUBTS, OMISSIONS OR ERRORS SEEK CLARIFICATION FROM THE DESIGNER.
- 4. TEXT ON THE GANTRY SIGNS IS INDICATIVE
- 5. DRAWING APPLICABLE TO GANTRIES SG001 TO SG006 (SEE KEY PLAN DRAWING HE551462-WSP-LSI-ZZ-DR-ZL-45023)

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20/04/20 For Examination Deadline 4 0 27/09/19 For Application By Eng' Disc' App'd

For Examination Deadline 4

TR010031/APP/2.7(M)

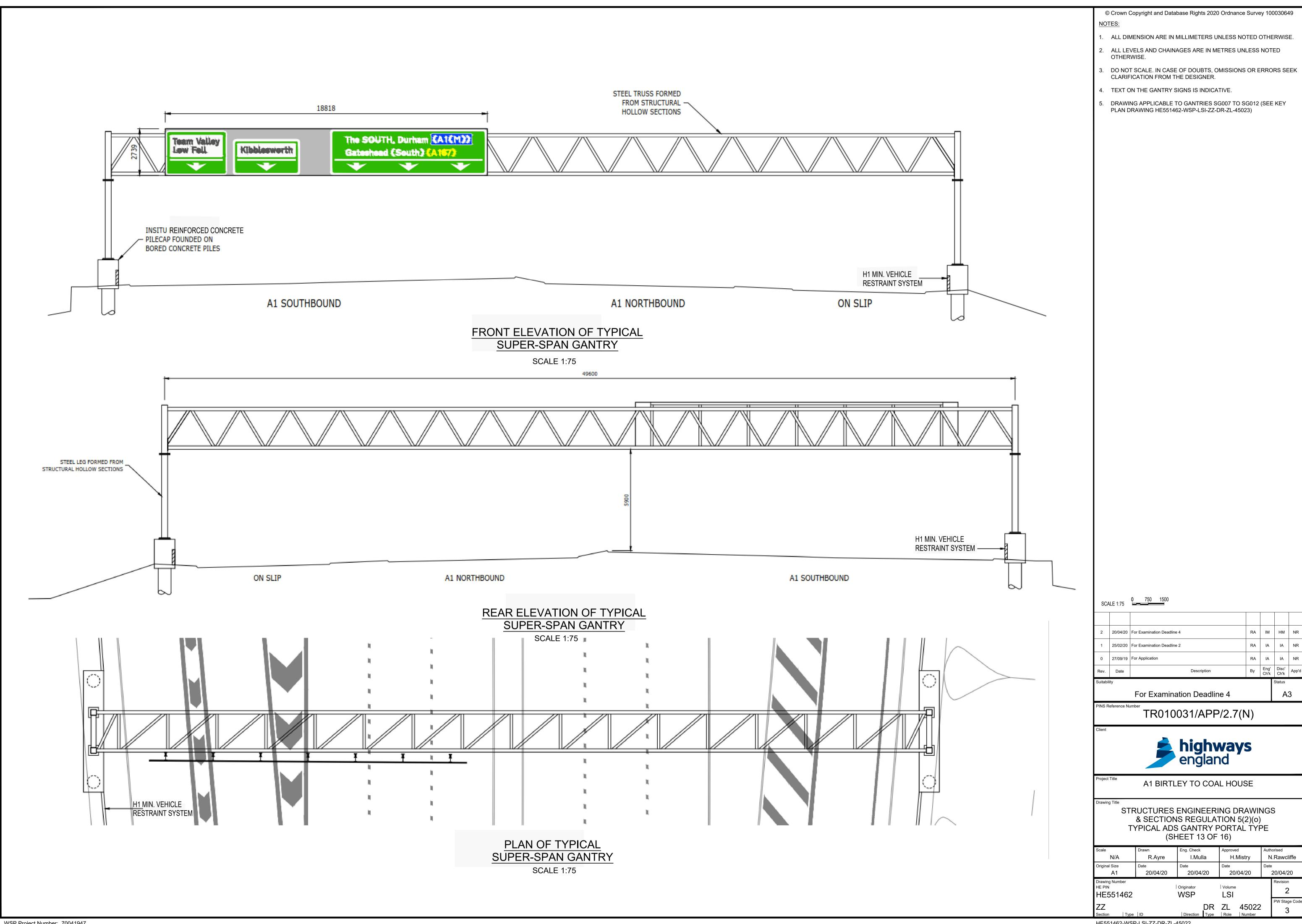


A1 BIRTLEY TO COAL HOUSE

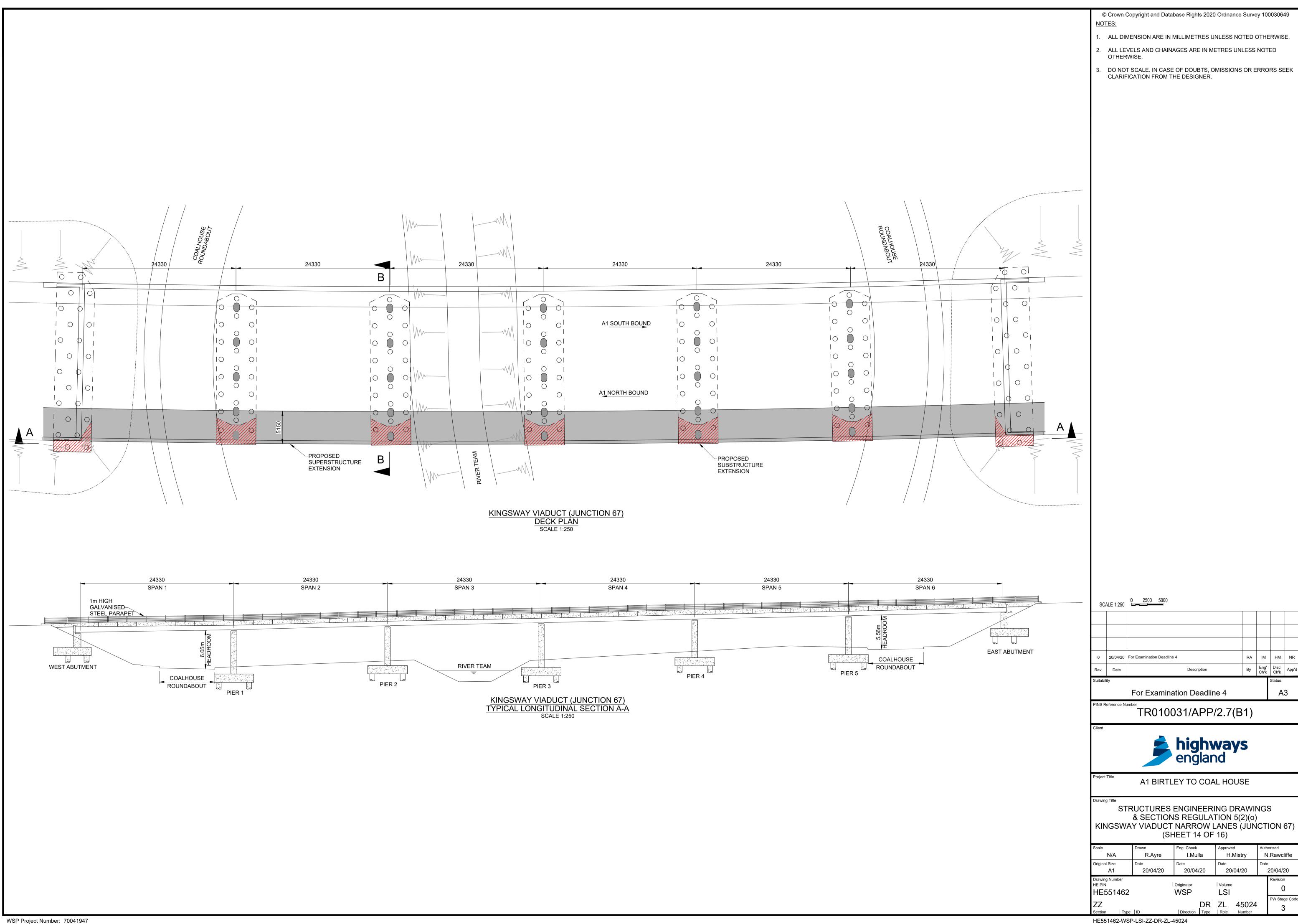
STRUCTURES ENGINEERING DRAWINGS & SECTIONS REGULATION 5(2)(o)
TYPICAL ADS GANTRY - TRUSS CANTILEVER TYPE (SHEET 12 OF 16)

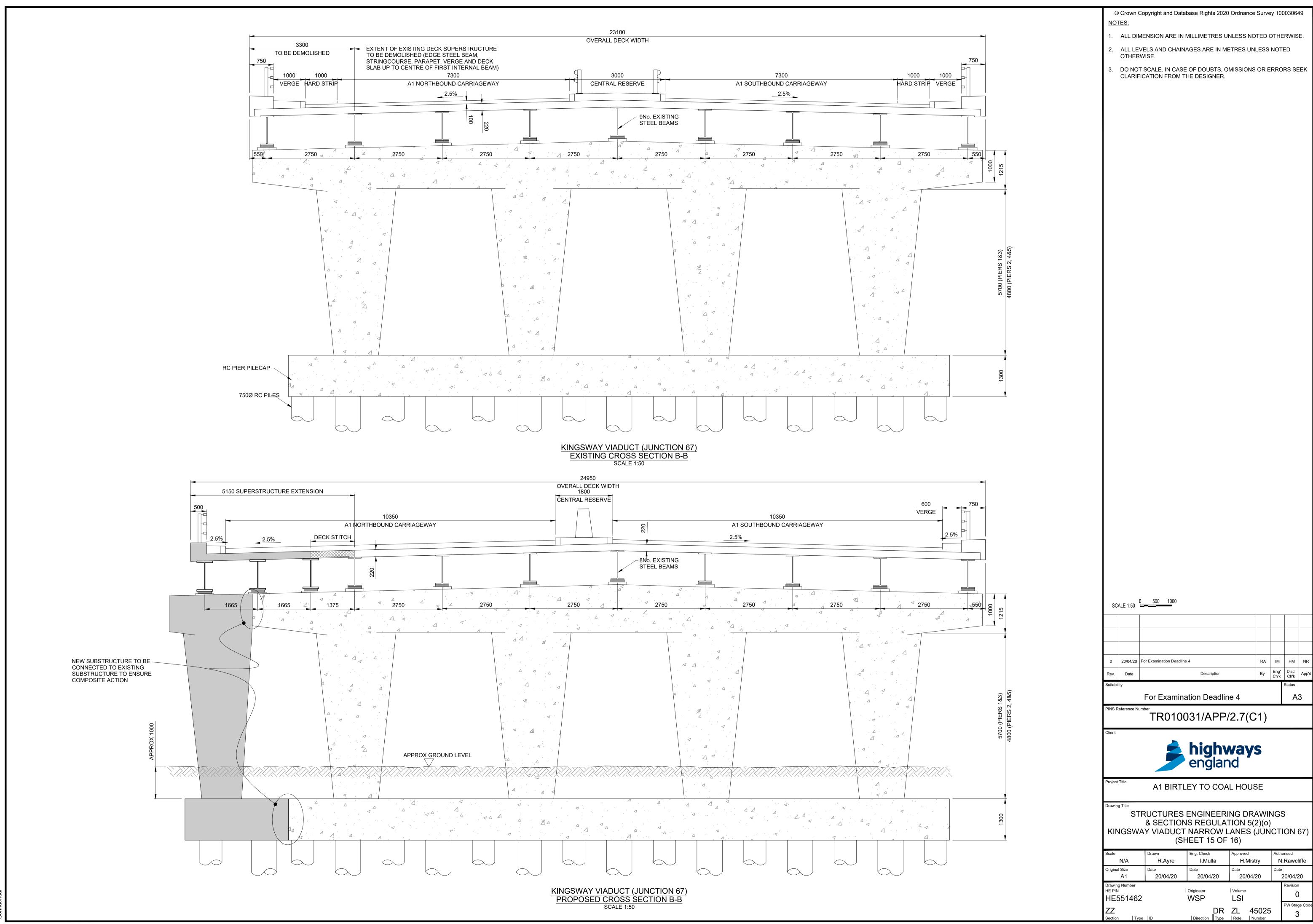
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N/A	R.Ayre	I.Mulla	H.Mistry	N.Rawcliffe		
Original Size	Date 20/04/20	Date 20/04/20	Date 20/04/20	Date	20/04/20	
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WSP Project Number: 70041947



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Scale	Drawn	Eng. Check	Approved	Authorised	
N/A	R.Ayre	I.Mulla	H.Mistry	N.Rawcliffe	
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