

Document Reference: 2.7

The Norfolk County Council (Norwich Northern Distributor Road (A1067 to A47(T))) Order

2.7 Bridge and Elevation Plans

Planning Act 2008

Infrastructure Planning

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

PINS Reference Number: TR010015

Document Reference: 2.7

Regulation Number: 5(2)(o)

Author: Norfolk County Council & Mott MacDonald

Revision	Date	Description
0	8 th January 2014	Revision For Submission



INTRODUCTION

This document is submitted in relation to the application for a Development Consent Order by Norfolk County Council to the Secretary of State, under the Planning Act 2008.

The application is for the Norfolk County Council (Norwich Northern Distributor Road (A1067 to A47(T))) Order, to grant development consent for the construction of a new highway running west to east, to south, between the A1067 Fakenham Road and the A47 Trunk Road at Postwick, including improvements to the existing highway network to the north and north east of Norwich.

This document comprises part of the application documents and relates to Regulation 5(2)(o) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009.

SCHEDULE OF PLANS INCLUDED IN THIS DOCUMENT

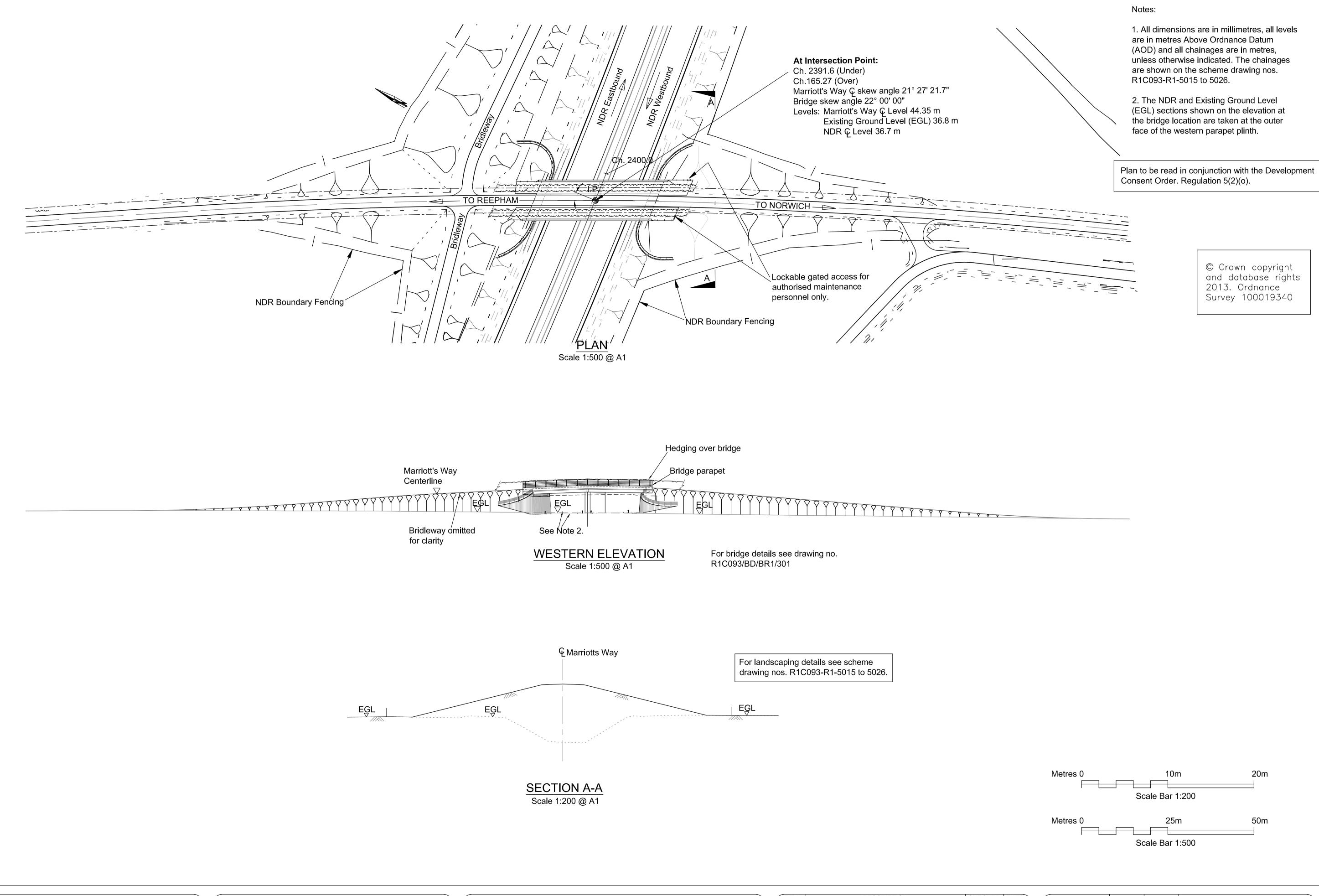
Drawing No.	Drawing Title	Revision
R1C093/BD/BR1/300	Marriott's Way Bridge - Embankment Plan & Elevation	В
R1C093/BD/BR1/301	Marriott's Way Bridge - General Arrangement	A
R1C093/BD/BR2/300	Bell Farm Bridge - Embankment Plan & Elevation	В
R1C093/BD/BR2/301	Bell Farm Bridge - General Arrangement	A
R1C093/BD/BR3/300	A140 Cromer Road Bridge - Embankment Plan & Elevation	В
R1C093/BD/BR3/301	A140 Cromer Road Bridge - General Arrangement	А
R1C093/BD/BR4/300	Buxton Road Bridge - Embankment Plan & Elevation	В
R1C093/BD/BR4/301	Buxton Road Bridge - General Arrangement	A
R1C093/BD/BR5/300	Rackheath Bat Underpass - General Arrangement	В
R1C093/BD/BR6/300	Newman Road Bridge - Embankment Plan & Elevation	С





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:093/RD/RR6/301	Newman Road Bridge - General	Α	

R1C093/BD/BR6/301	Newman Road Bridge - General Arrangement	Α
R1C093/BD/BR9/300	Middle Road Bridge - Embankment	В
R1C093/BD/BR9/301	Plan & Elevation Middle Road Bridge - General	Α
1110093/00/0119/301	Arrangement	, ,
R1C150-TC-4101	Postwick Existing Bridge - General Arrangement	Α
R1C150-TC-4102	Postwick Existing Bridge - General Arrangement - Proposed	А
R1C150-TC-4103	Postwick Existing Bridge - General Arrangement - Retaining Wall	Α
R1C150-CI-4001	Postwick New Bridge - General Arrangement Sheet 1	Α
R1C150-CI-4002	Postwick New Bridge - General Arrangement Sheet 2	Α
233906-DU01-P002	Rackheath Overbridge Option 2 - Sheet 1	А
233906-DU01-P003	Rackheath Overbridge Option 2 - Sheet 2	А
233906-DU01-P007	Plumstead Road Overbridge	Α
233906-DU01-P006	Rackheath Rail Overbridge	Α
233906-EC01-0010	Bat gantry locations	Α
233906-EC01-0001	Bat gantry General Arrangement – Sheet 1	А
233906-EC01-0002	Bat gantry General Arrangement – Sheet 2	Α
233906-EC01-0003	Bat gantry General Arrangement – Sheet 3	Α
233906-EC01-0004	Bat gantry General Arrangement – Sheet 4	Α
233906-EC01-0005	Bat gantry General Arrangement – Sheet 5	Α
233906-EC01-0006	Bat gantry General Arrangement – Sheet 6	А
233906-EC01-0007	Bat gantry General Arrangement – Sheet 7	А
MMD-233906-DT-0859	Bat House Location Plan	0
MMD-233906-DT-0654	Hall Farm Bat House	0
MMD-233906-DT-0655	Gazebo Farm Bat House	0







Tom McCabe
Interim Director of Environment,
Transport and Development
Norfolk County Council
County Hall, Martineau Lane
Norwich NR1 2SG

DRAWING TITLE

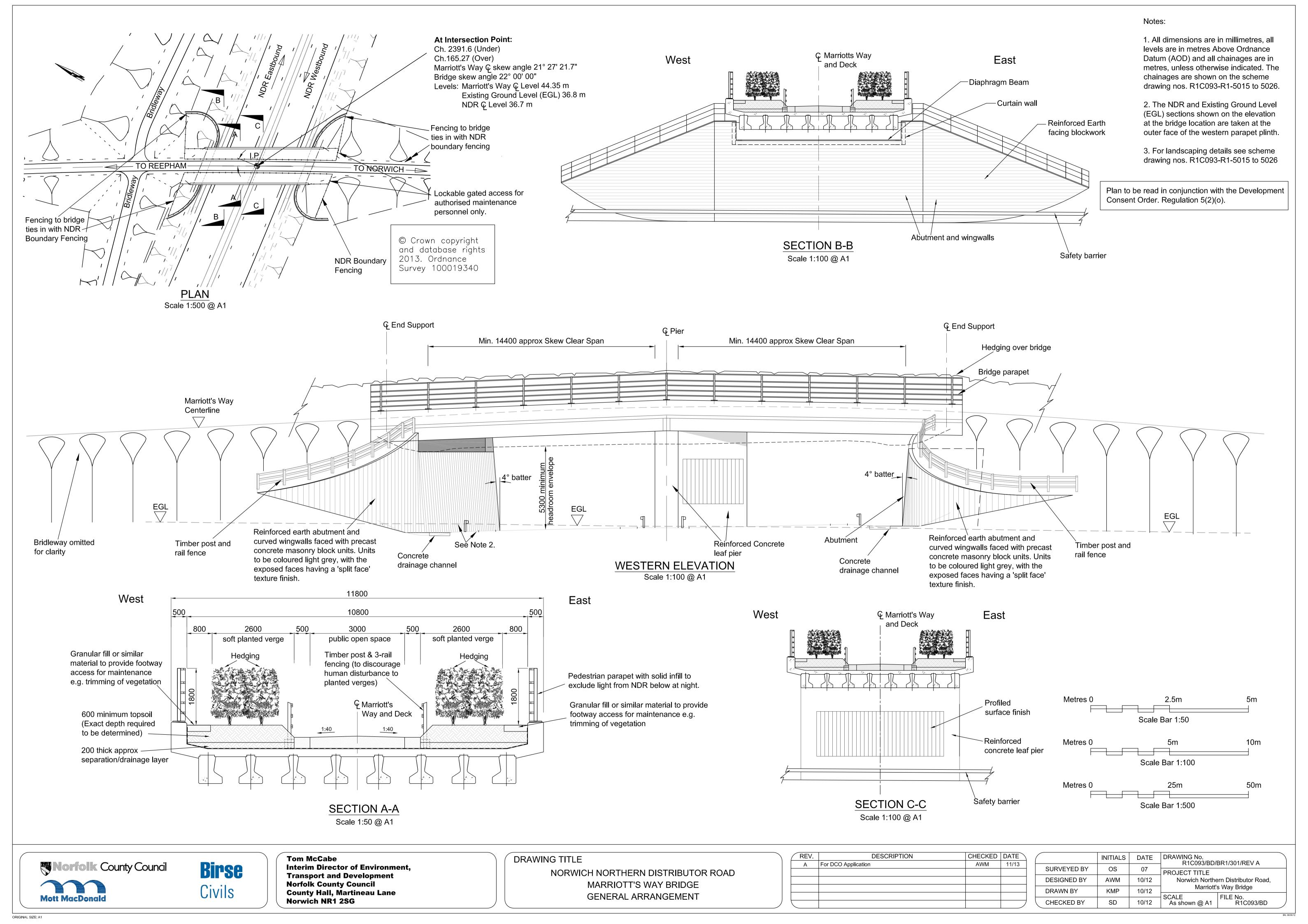
NORWICH NORTHERN DISTRIBUTOR ROAD

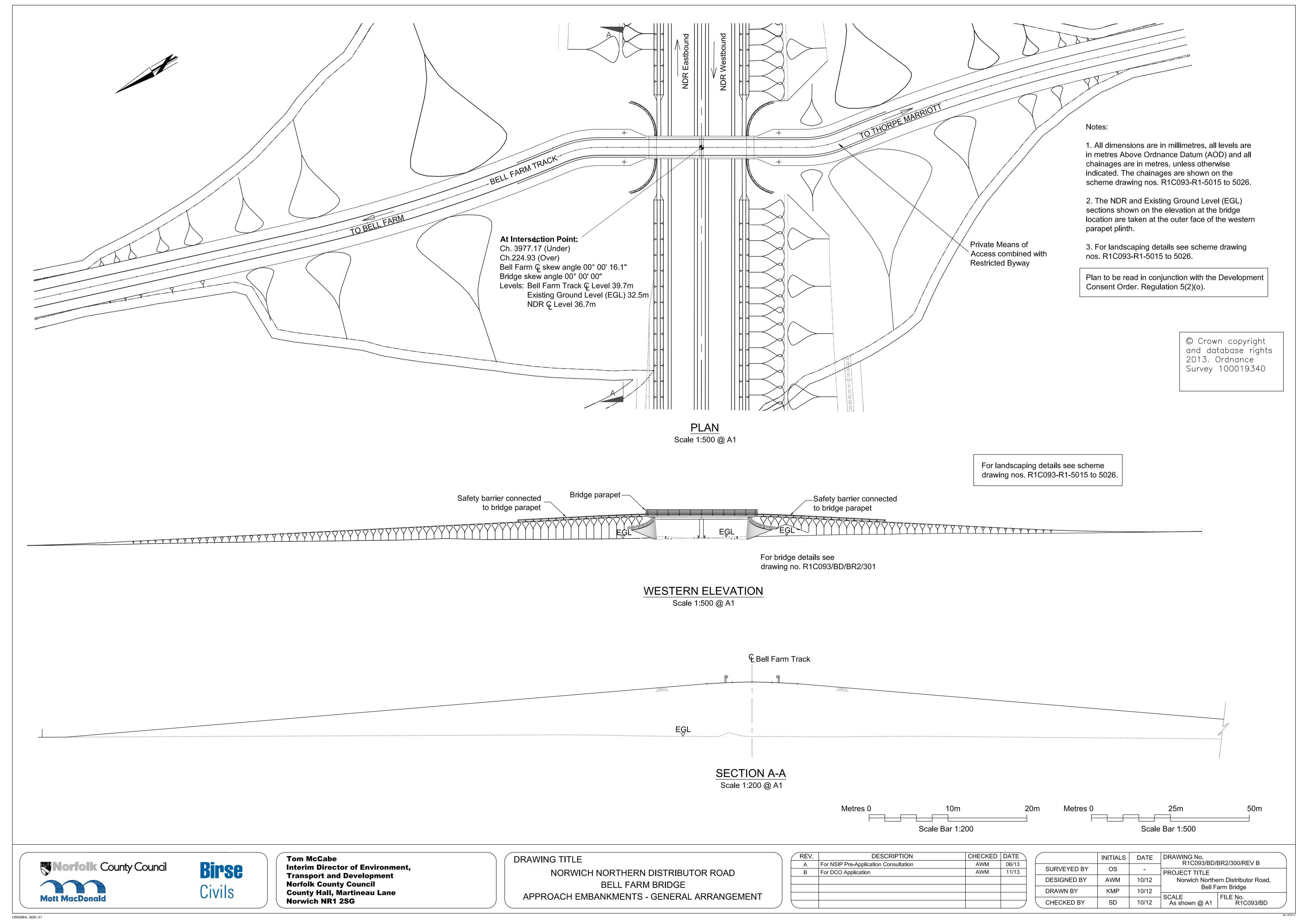
MARRIOTT'S WAY BRIDGE

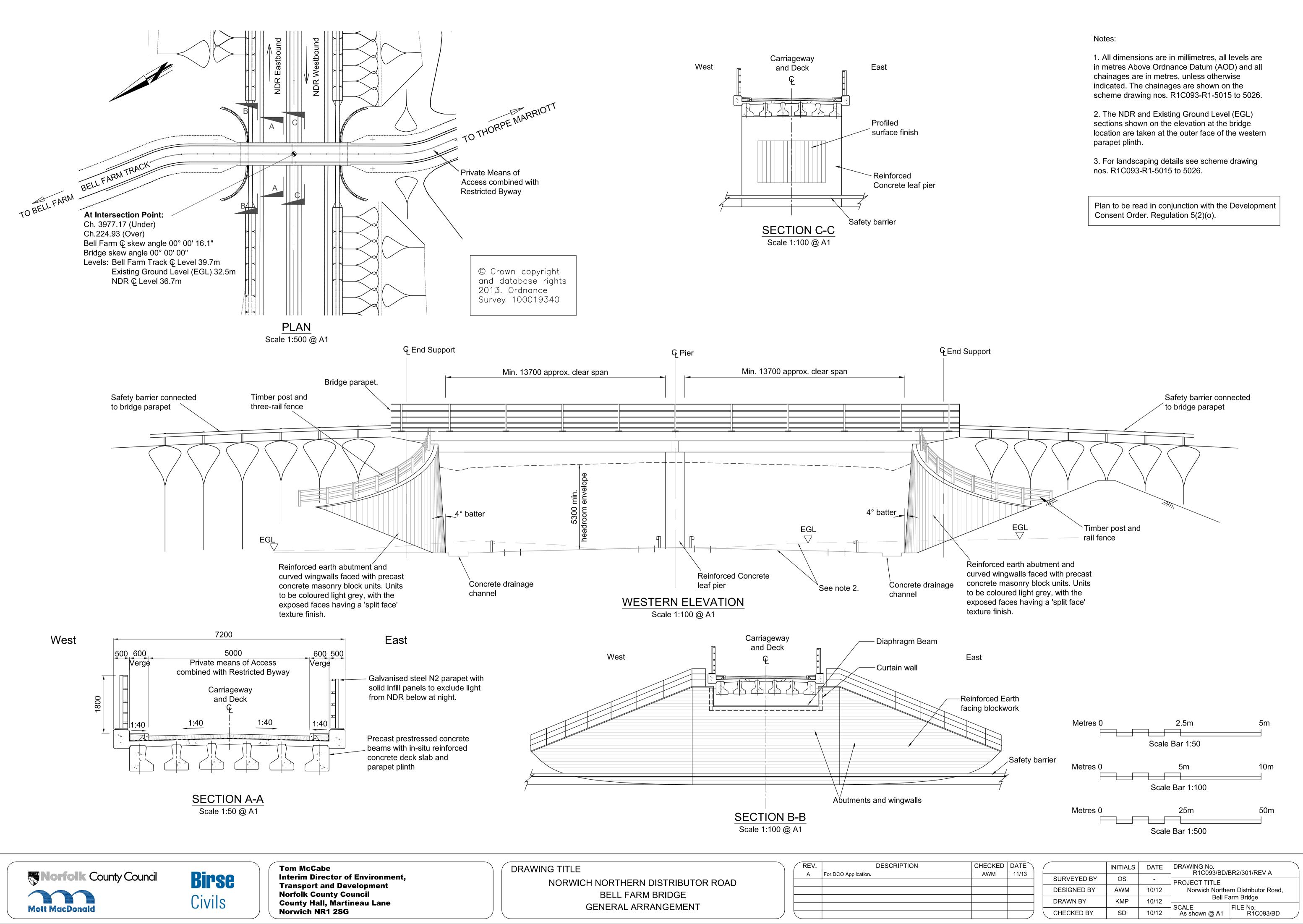
APPROACH EMBANKMENTS - GENERAL ARRANGEMENT

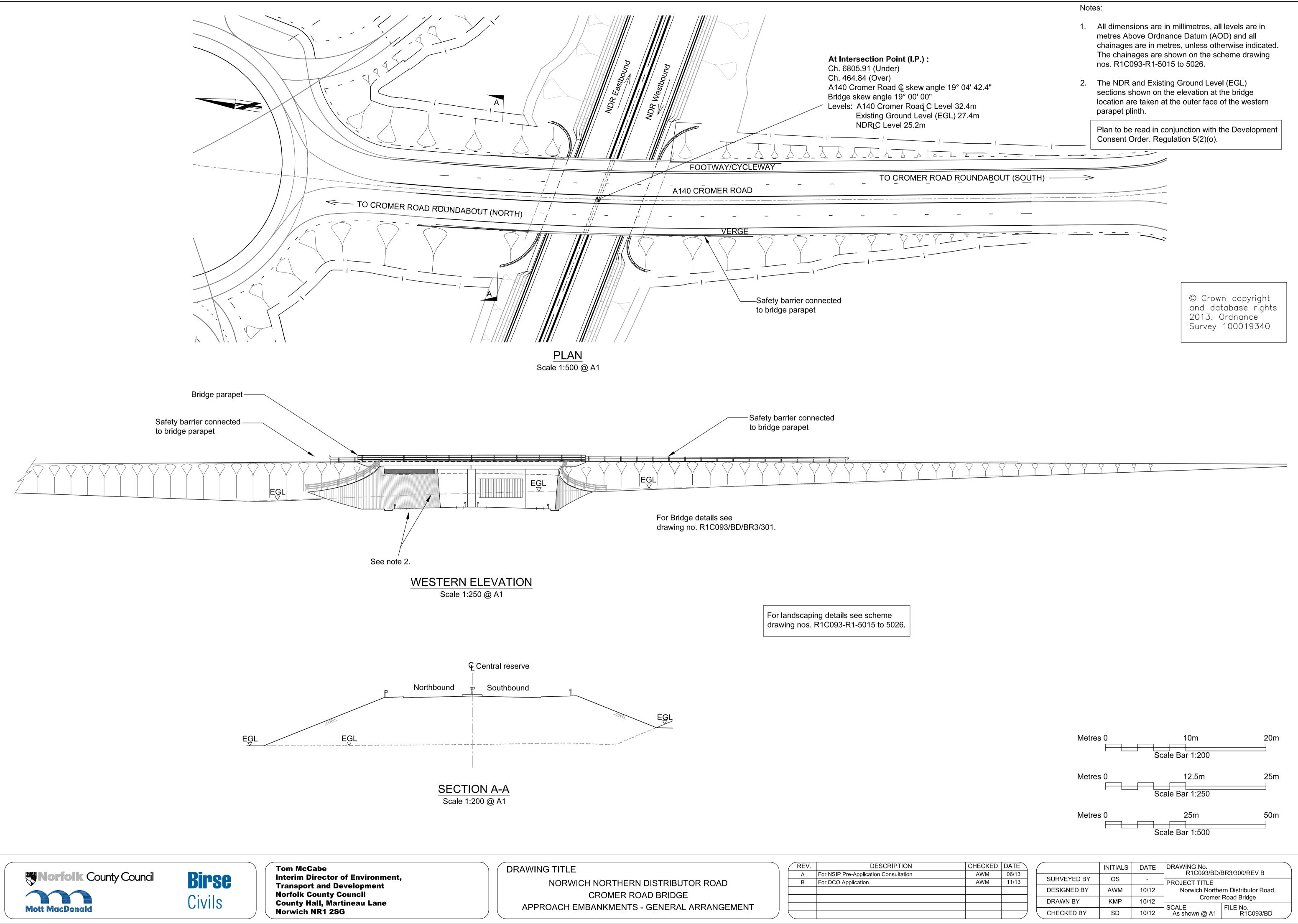
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	В	For DCO Application	AWM	11/13		
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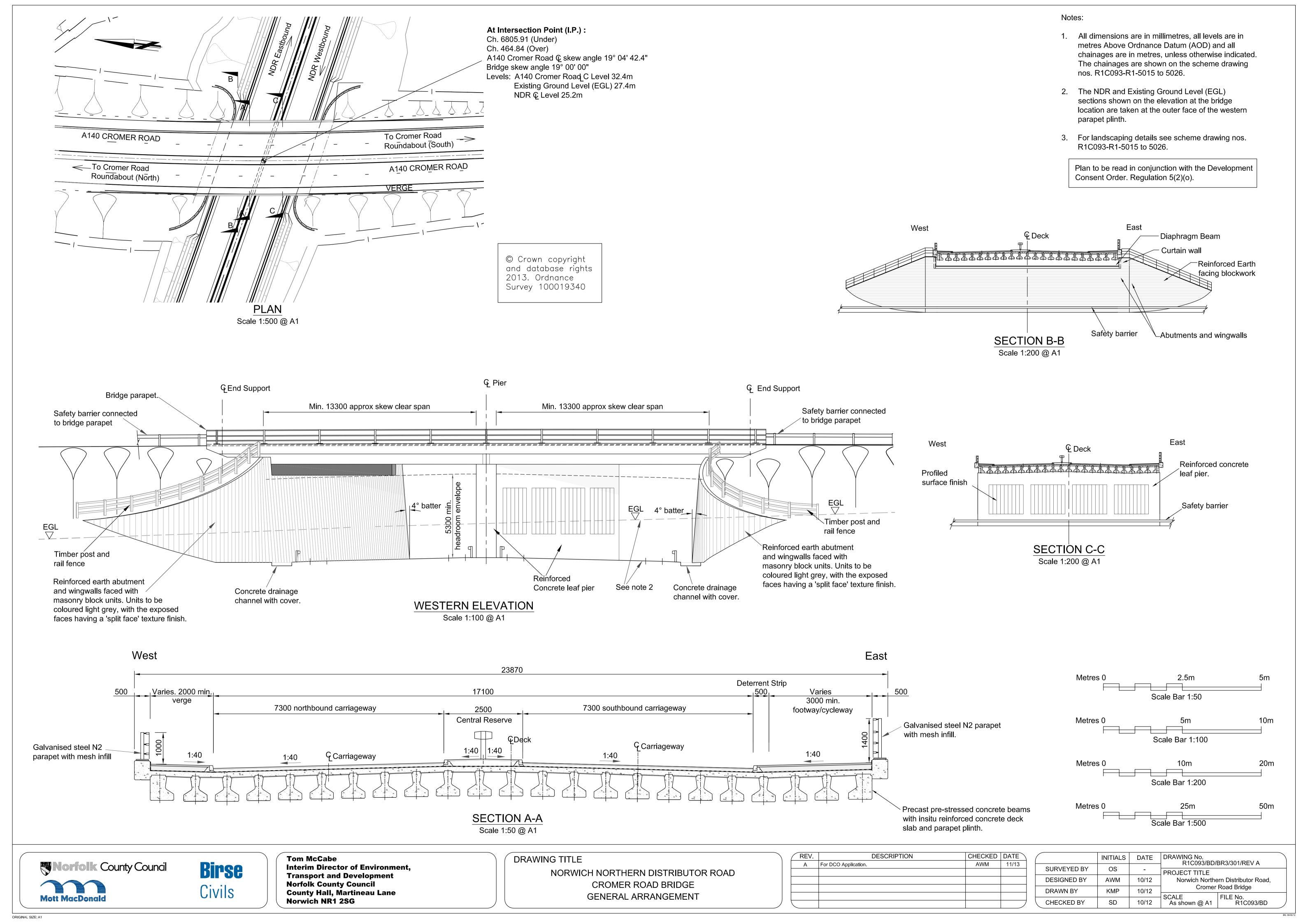
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SURVEYED BY	os	07	PROJECT TITLE	SKITOOOTKEV B
DESIGNED BY	AWM	10/12	Norwich Northern Distributor Road, Marriott's Way Bridge	
DRAWN BY	KMP	10/12		
CHECKED BY	SD	10/12	SCALE As shown @ A1	FILE No. R1C093/BD

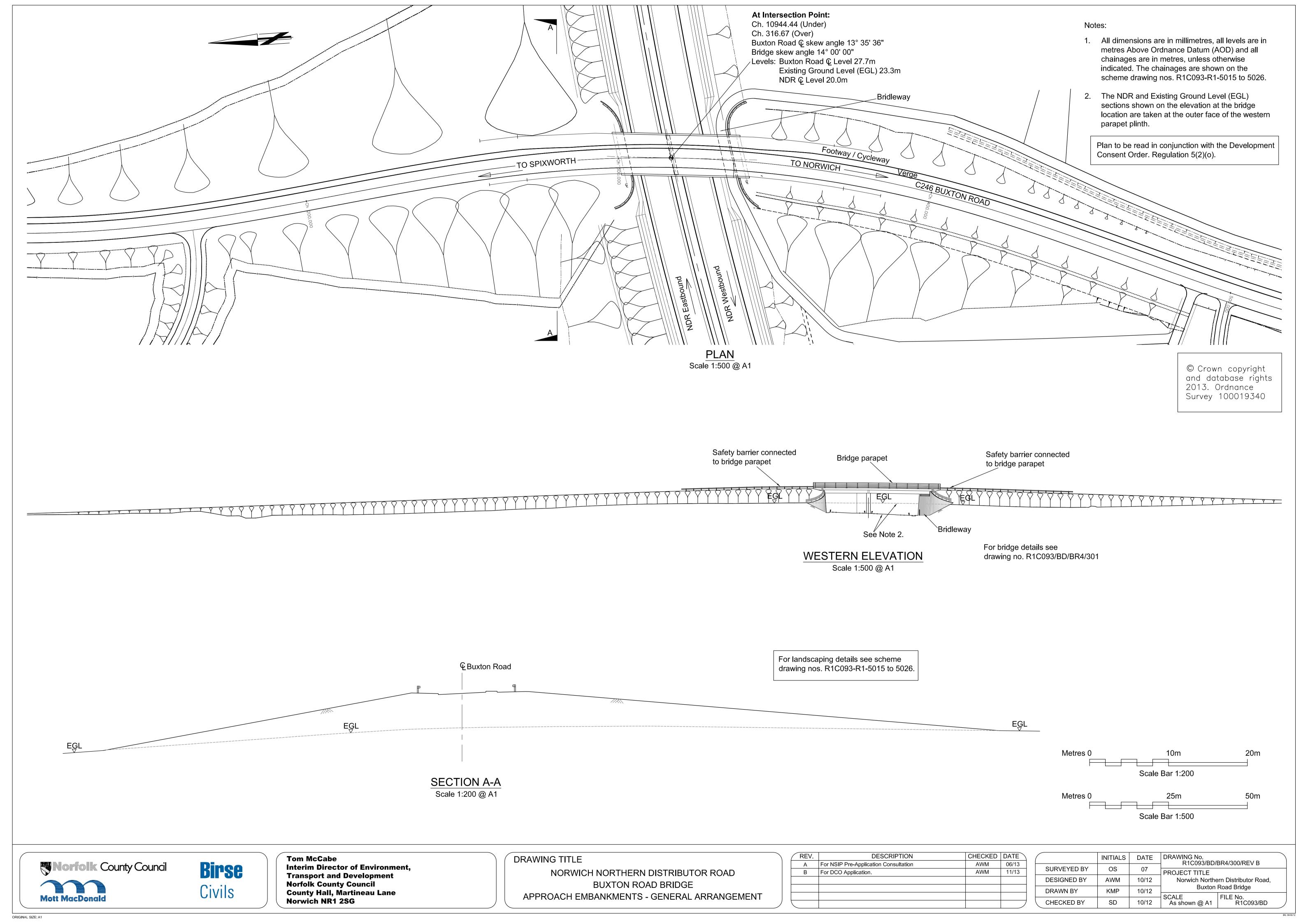


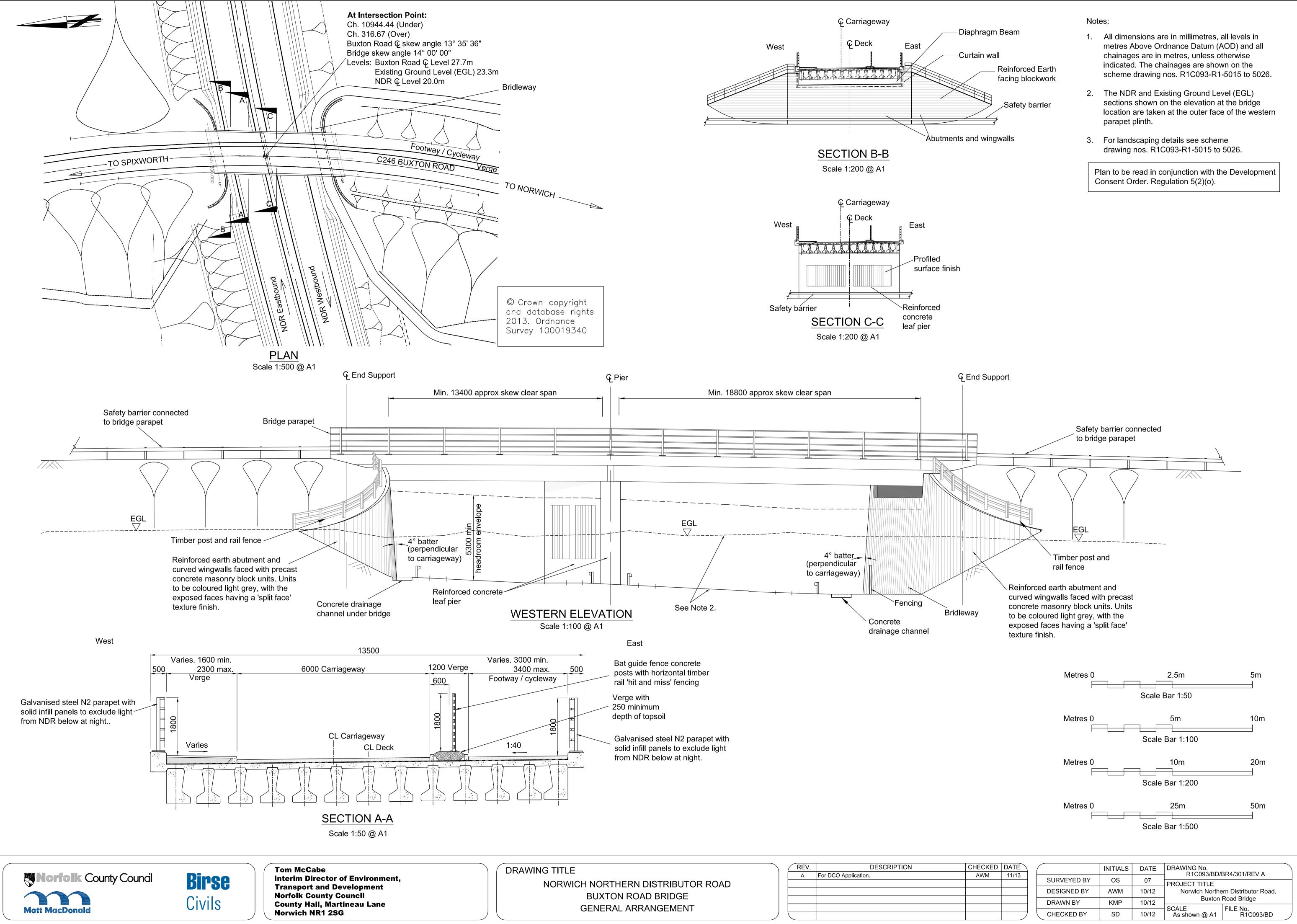




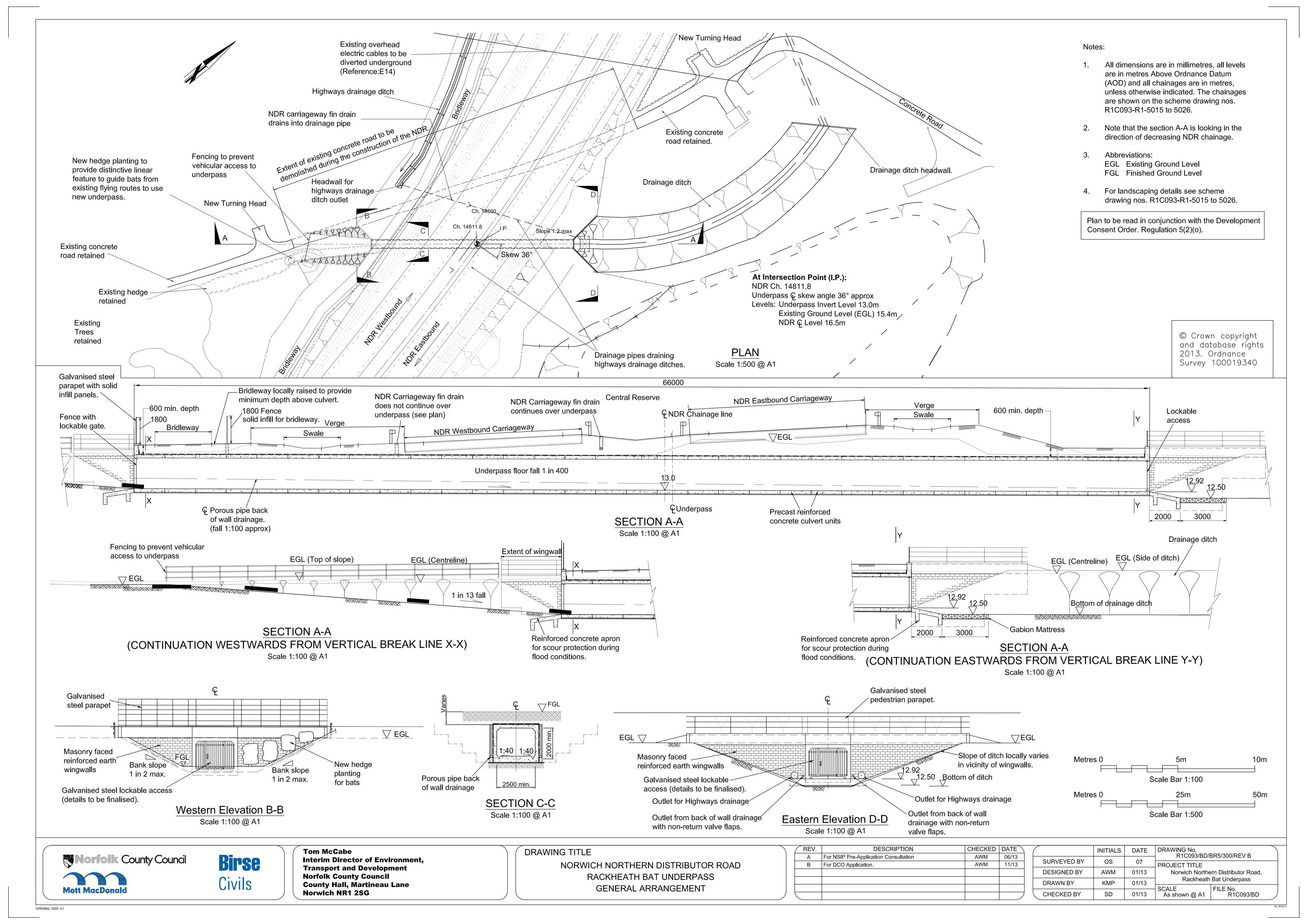


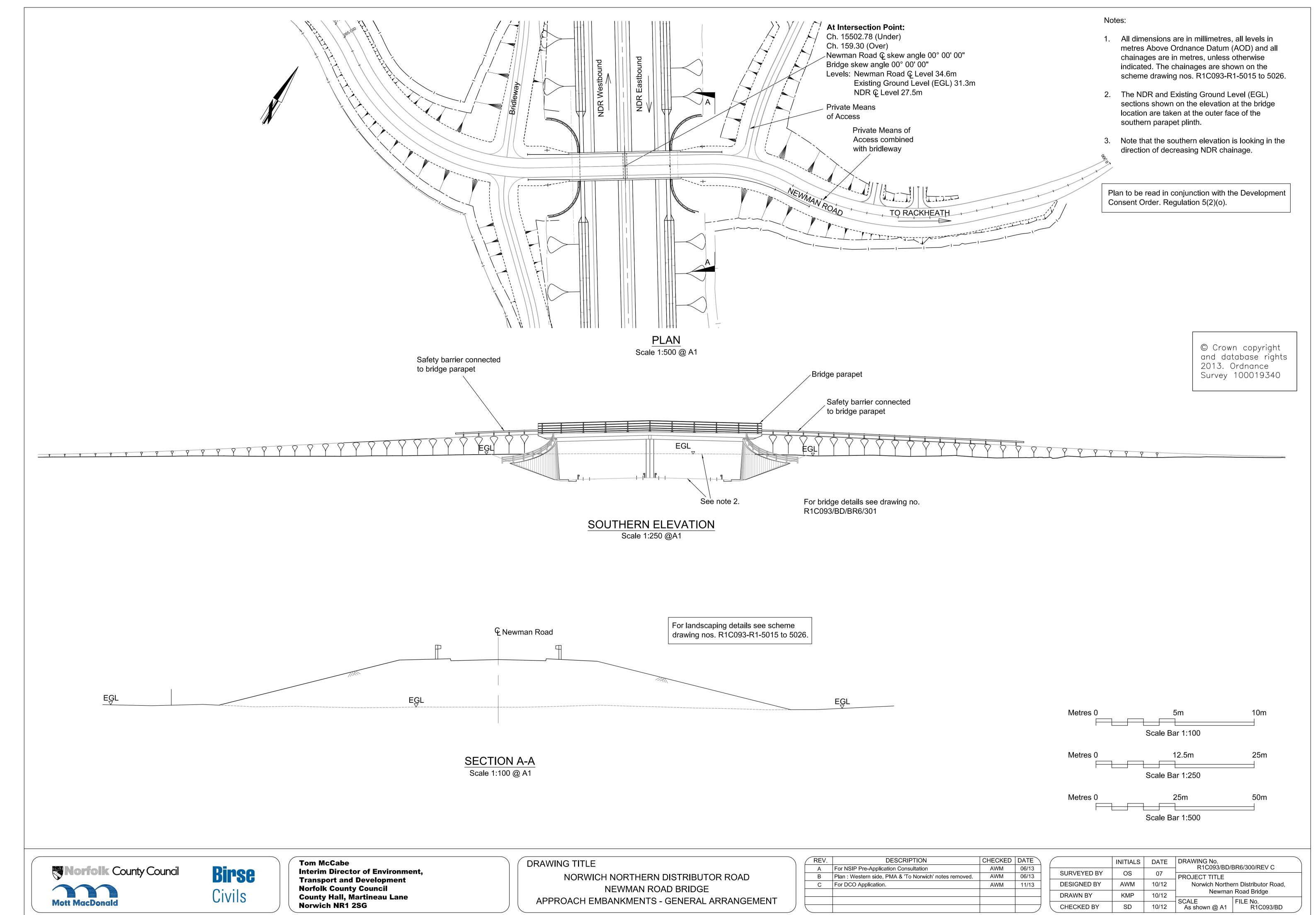




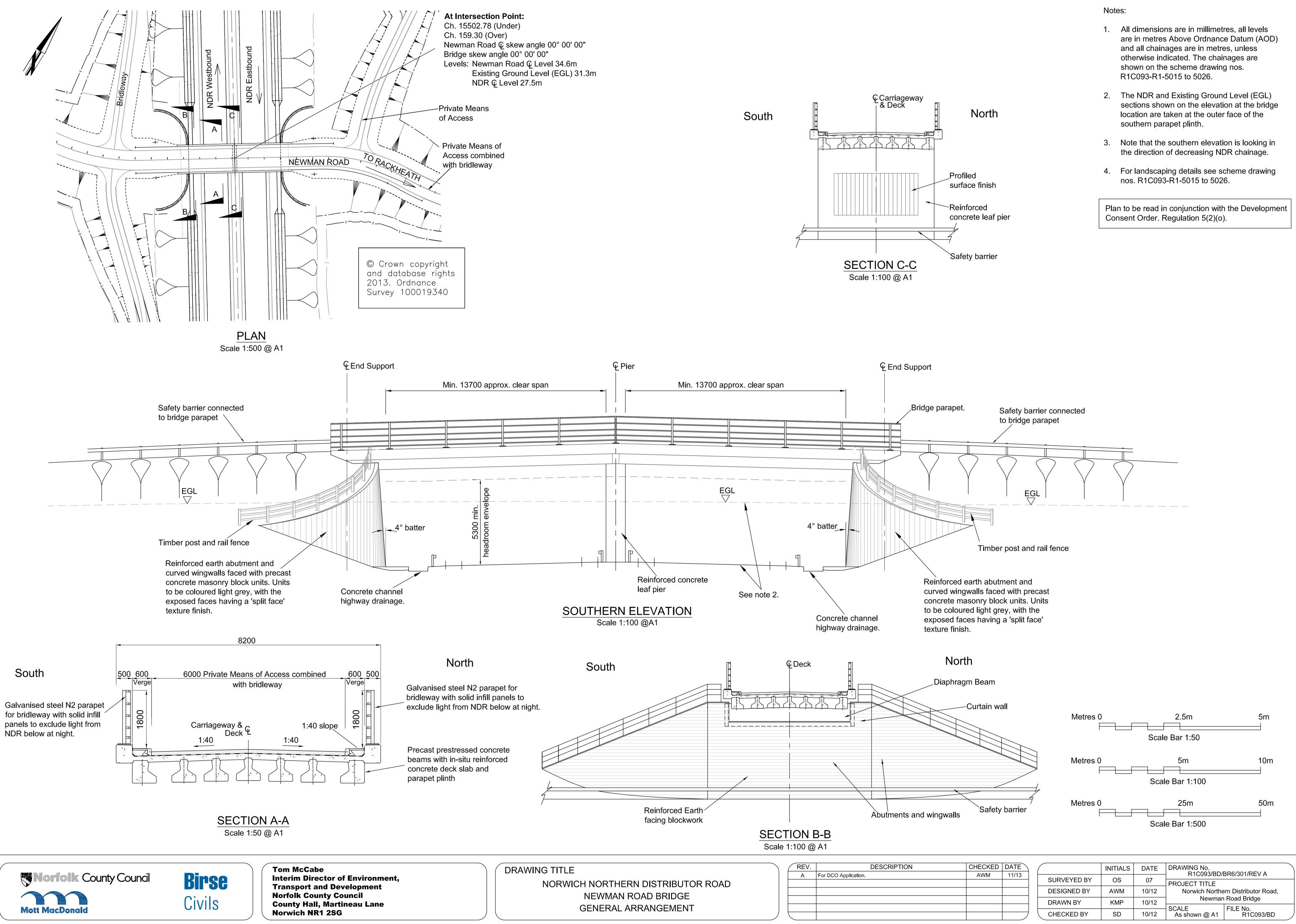


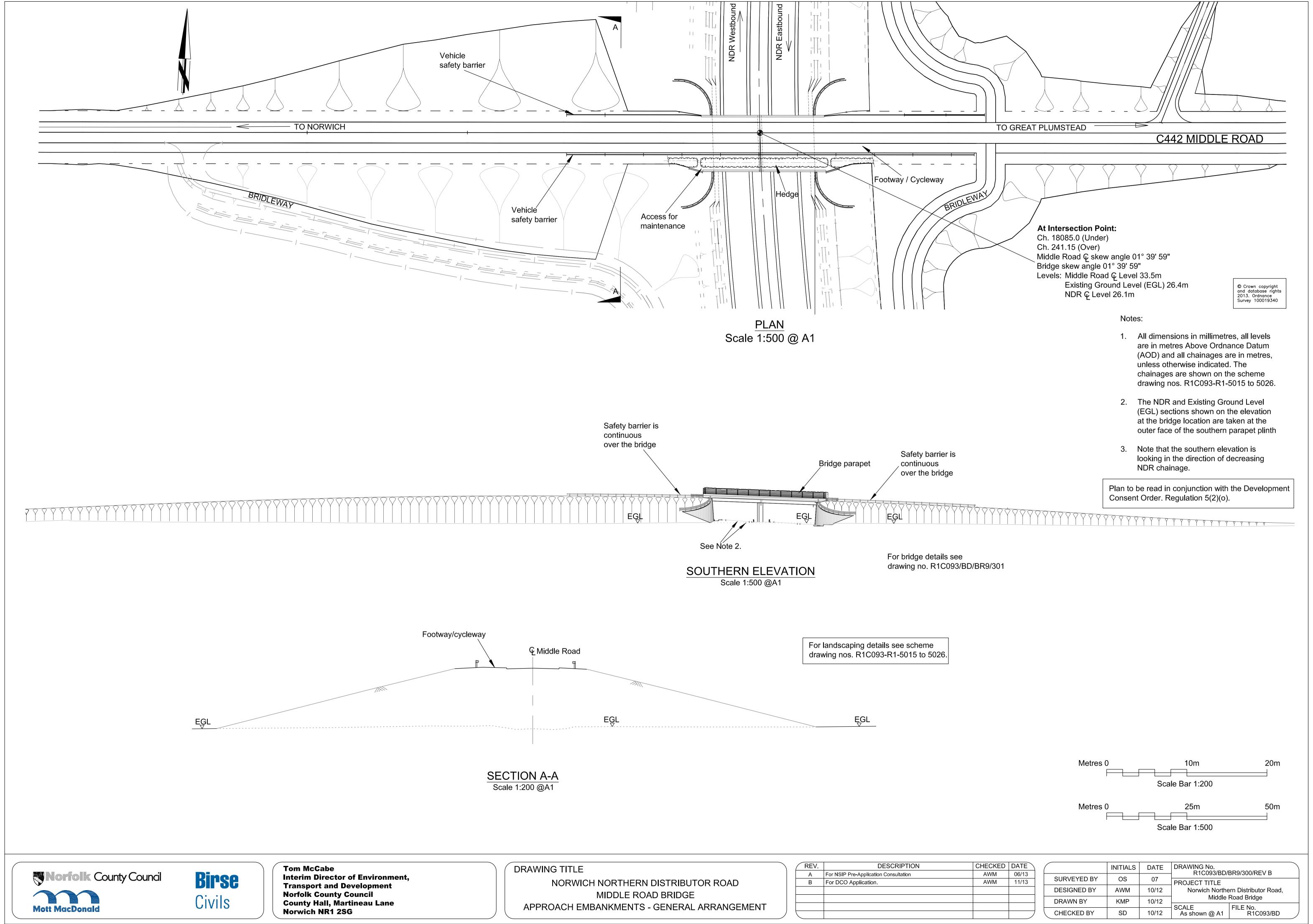
ORIGINAL SIZE: A1



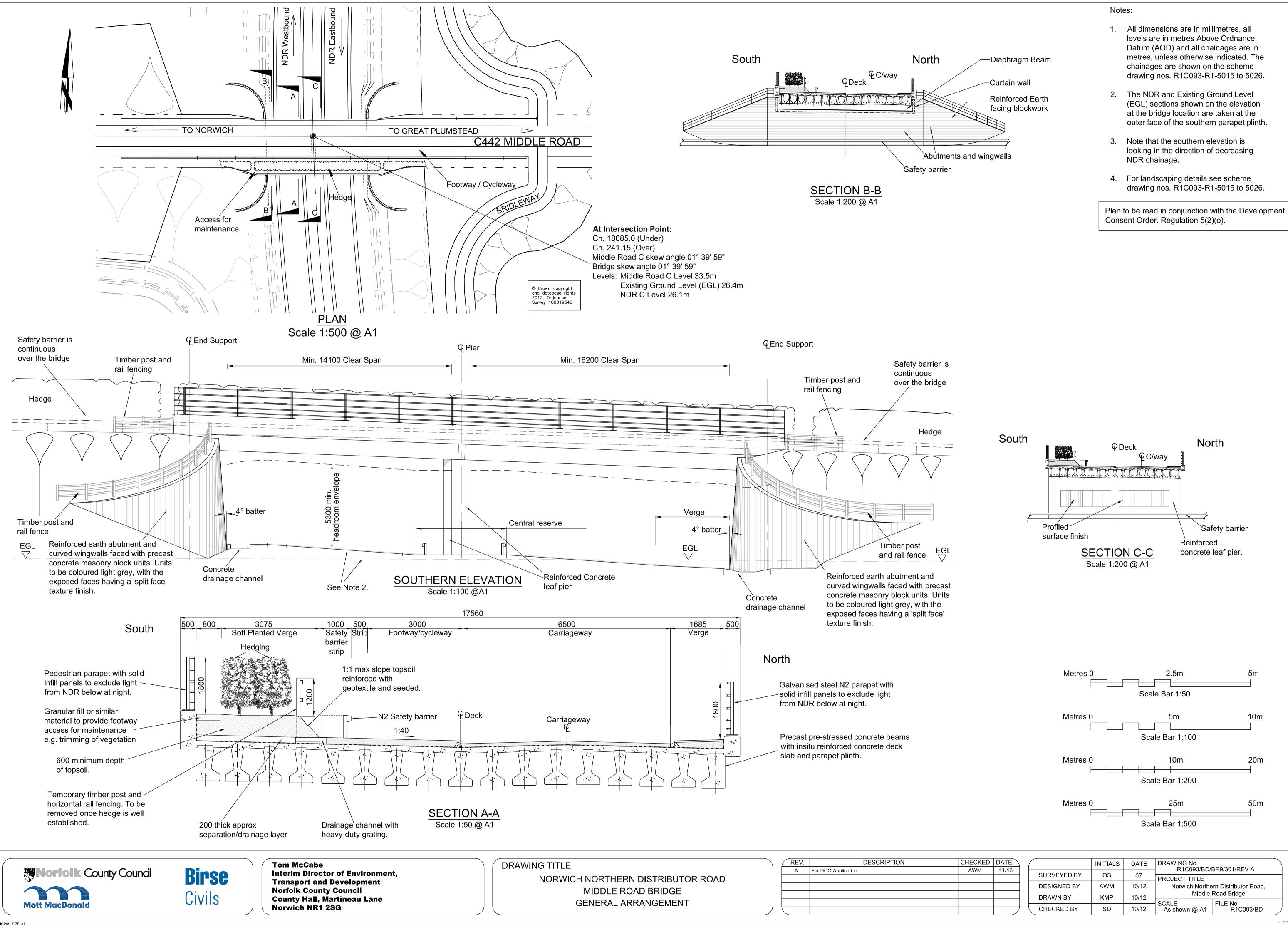


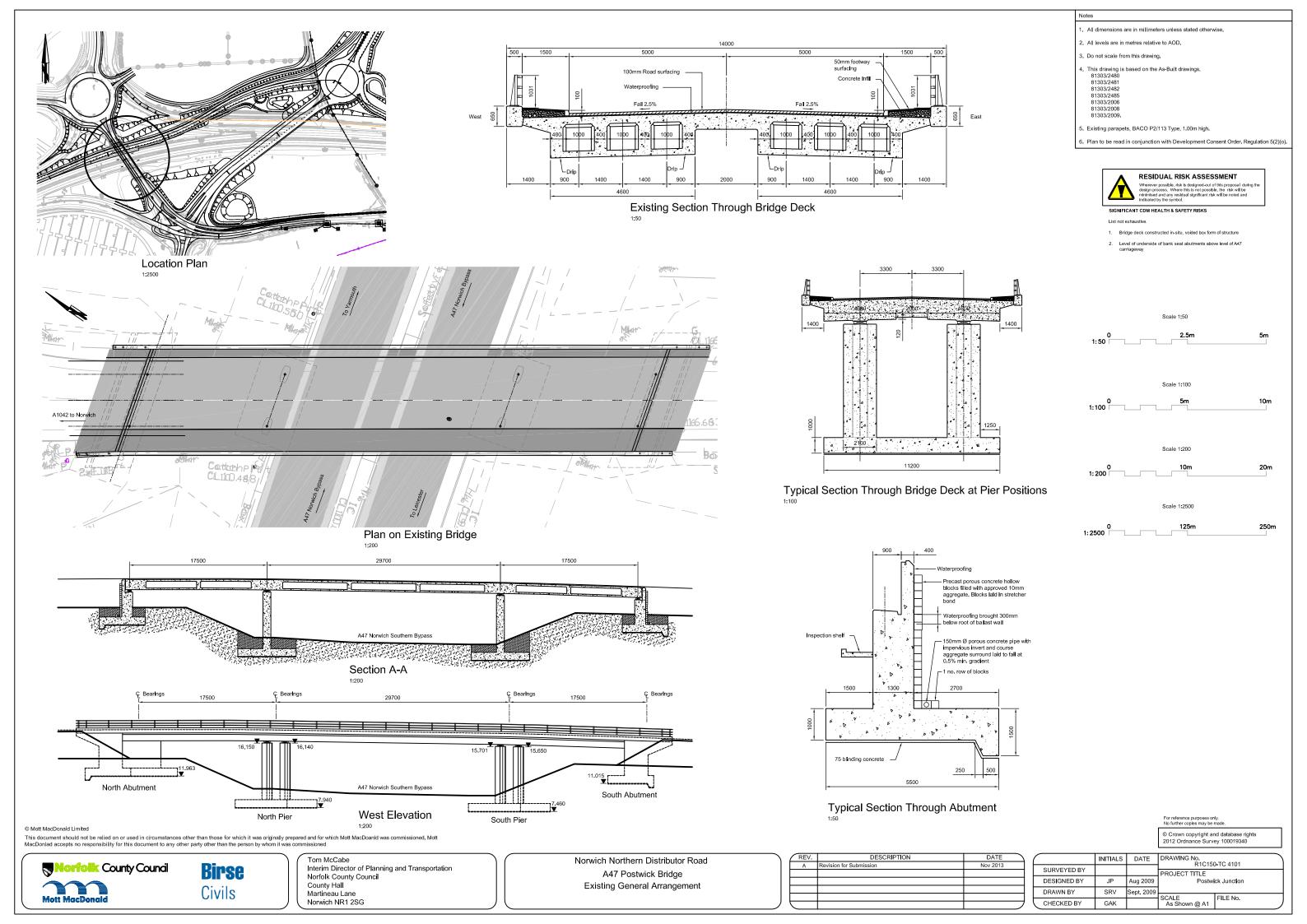


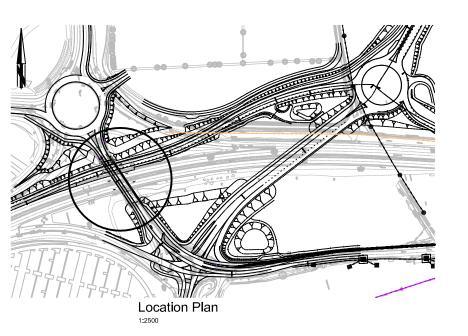


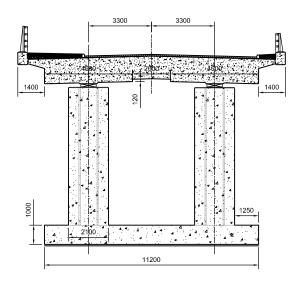


ORIGINAL SIZE: A1

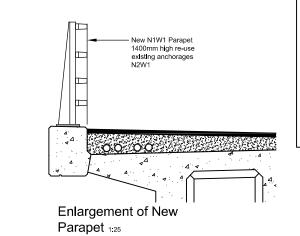








Proposed Section Through Bridge Deck at Pier Positions

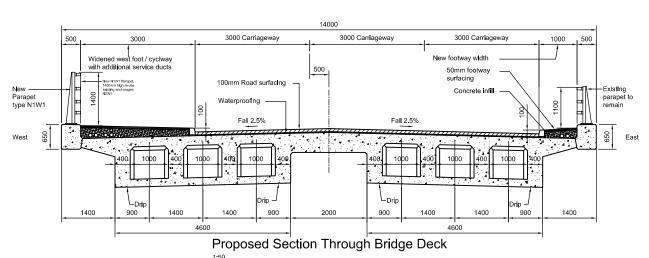


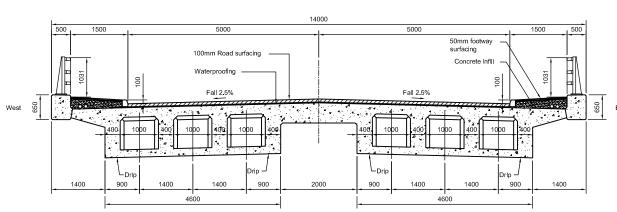
- . All dimensions are in millimeters unless stated otherwise.
- Do not scale from this drawing.
- . This drawing is based on the Southern Bypass Contract 4, produced by G. Maunsell & Partners As-Built drawings,
 - Maunsell & Pa 81303/2480 81303/2481 81303/2482 81303/2485 81303/2006
- 81303/2008 81303/2009
- Existing 1.00m high P2/113 parapet on west side of bridge to be replaced with new1.40m high N1 W1 type parapet in accordance with BS EN 1317. Parapet on east side of bridge to remain. If permitted it shall be sought to re-use the existing parapet anchorages or alternatively the new parapets will be 'drilled and fixed' to the parapet beam using resin anchors.
- . Carriageway over deck to comprise of 3.0m wide foot / cycleway on west side, 3 no. 3.0m wide lanes and a 1.1m wide footway on east side.
- . Plan to be read in conjunction with the Development Consent Order. Regulation 5(2)(o)

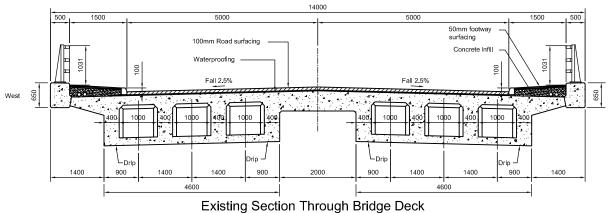


RESIDUAL RISK ASSESSMENT

- Bridge deck constructed in-situ, voided box form of structure
 Parapet replacement over live carriageway







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1:100

A1042 to Norwich

Bearings

1.250m

North Abutment

17500



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Interim Director of Planning and Transportation Norfolk County Council County Hall Martineau Lane Norwich NR1 2SG

Plan

A47 Norwich Southern Bypass

West Elevation

15.701

Bearings

North Pier

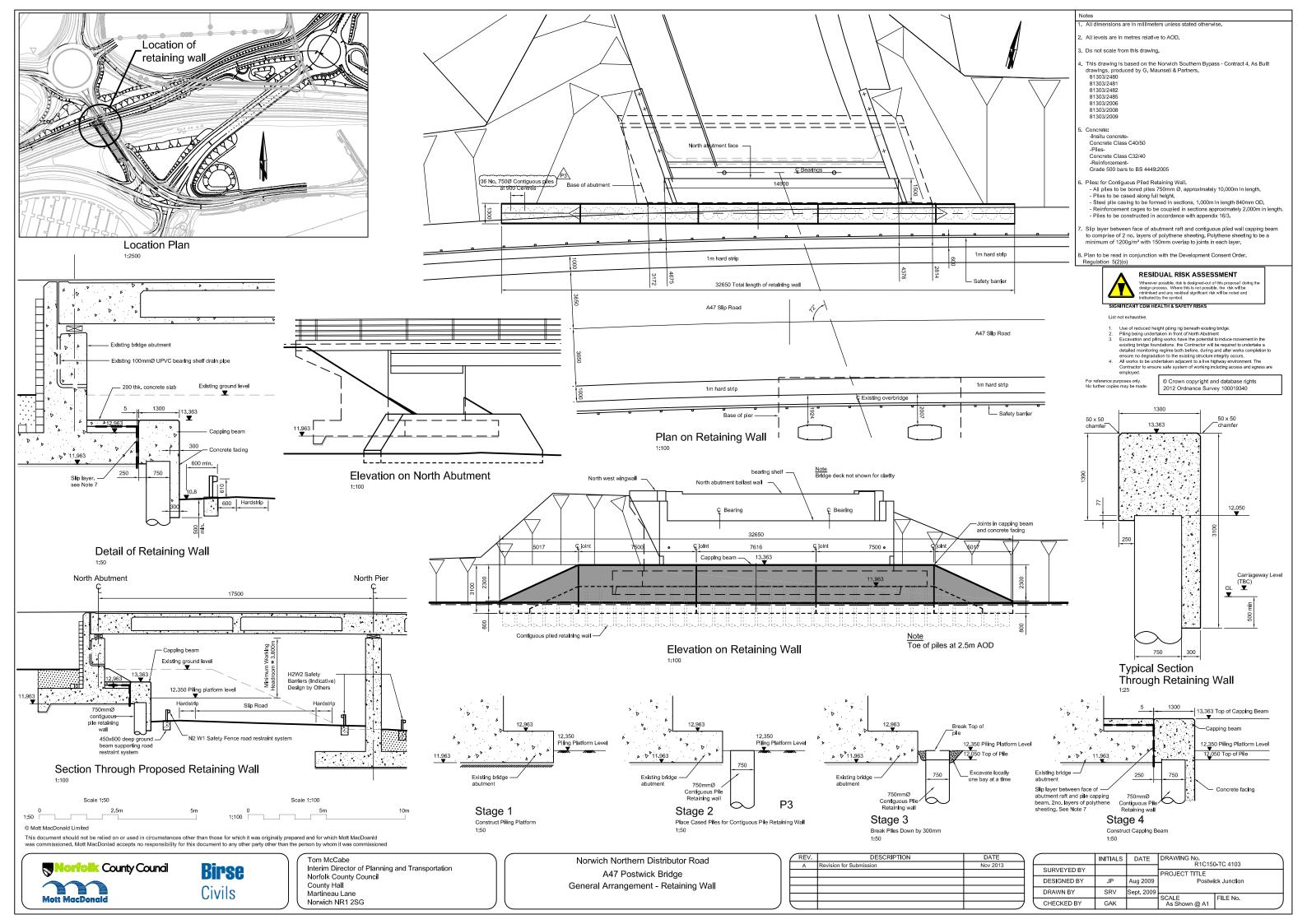
Norwich Northern Distributor Road A47 Postwick Bridge (Structure 11630) General Arrangement of Proposed Modifications to Bridge

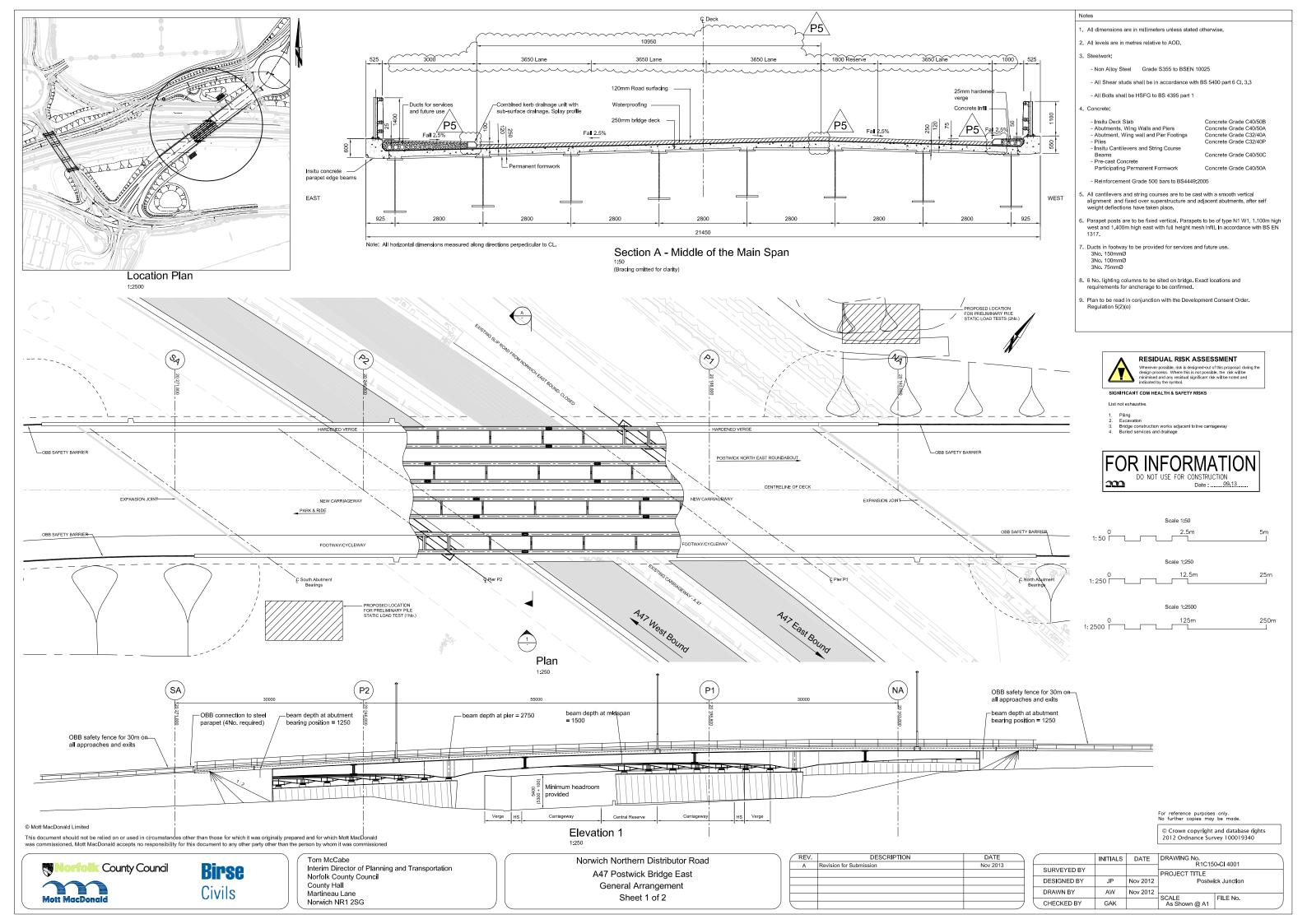
250m

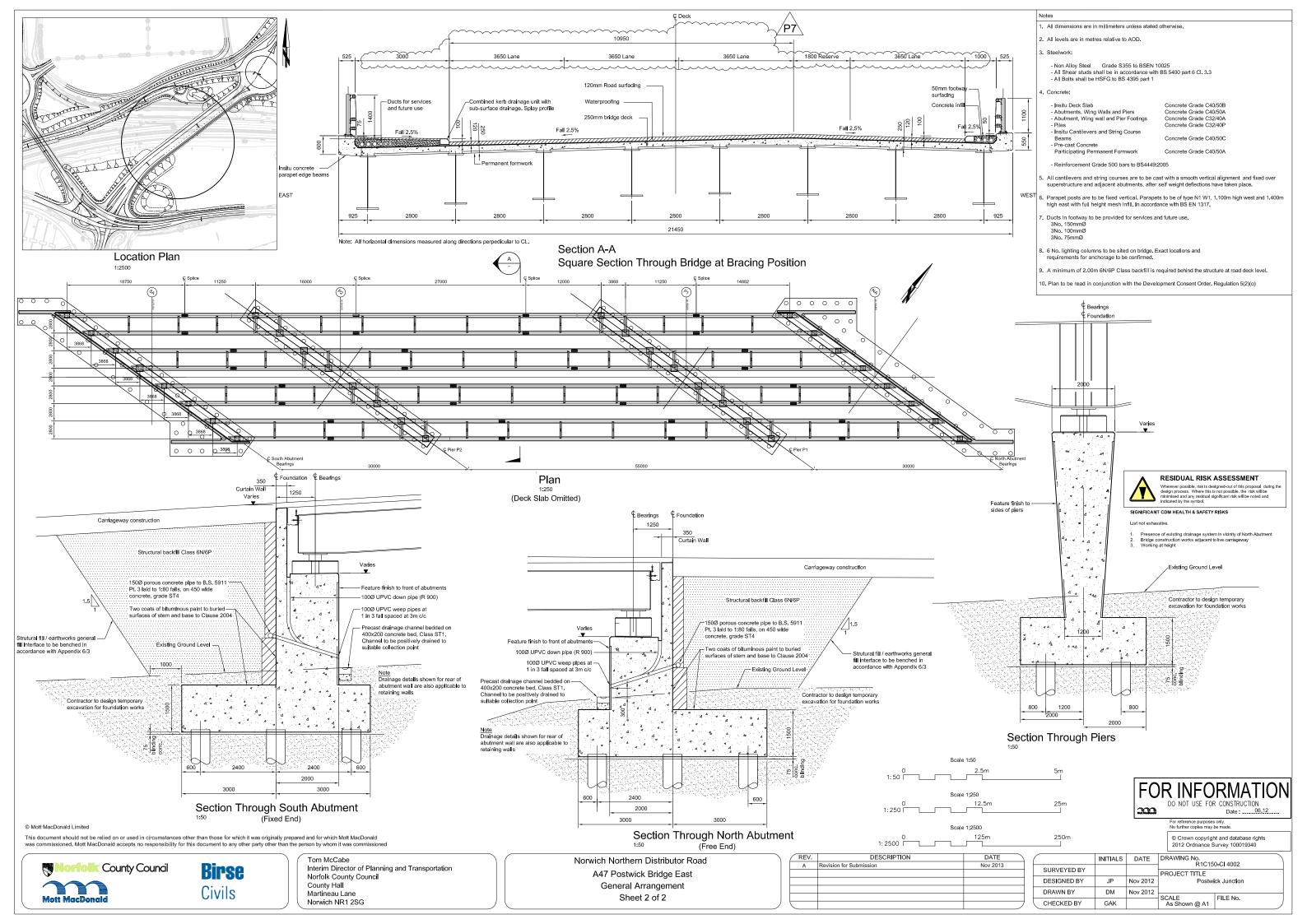
South Abutment

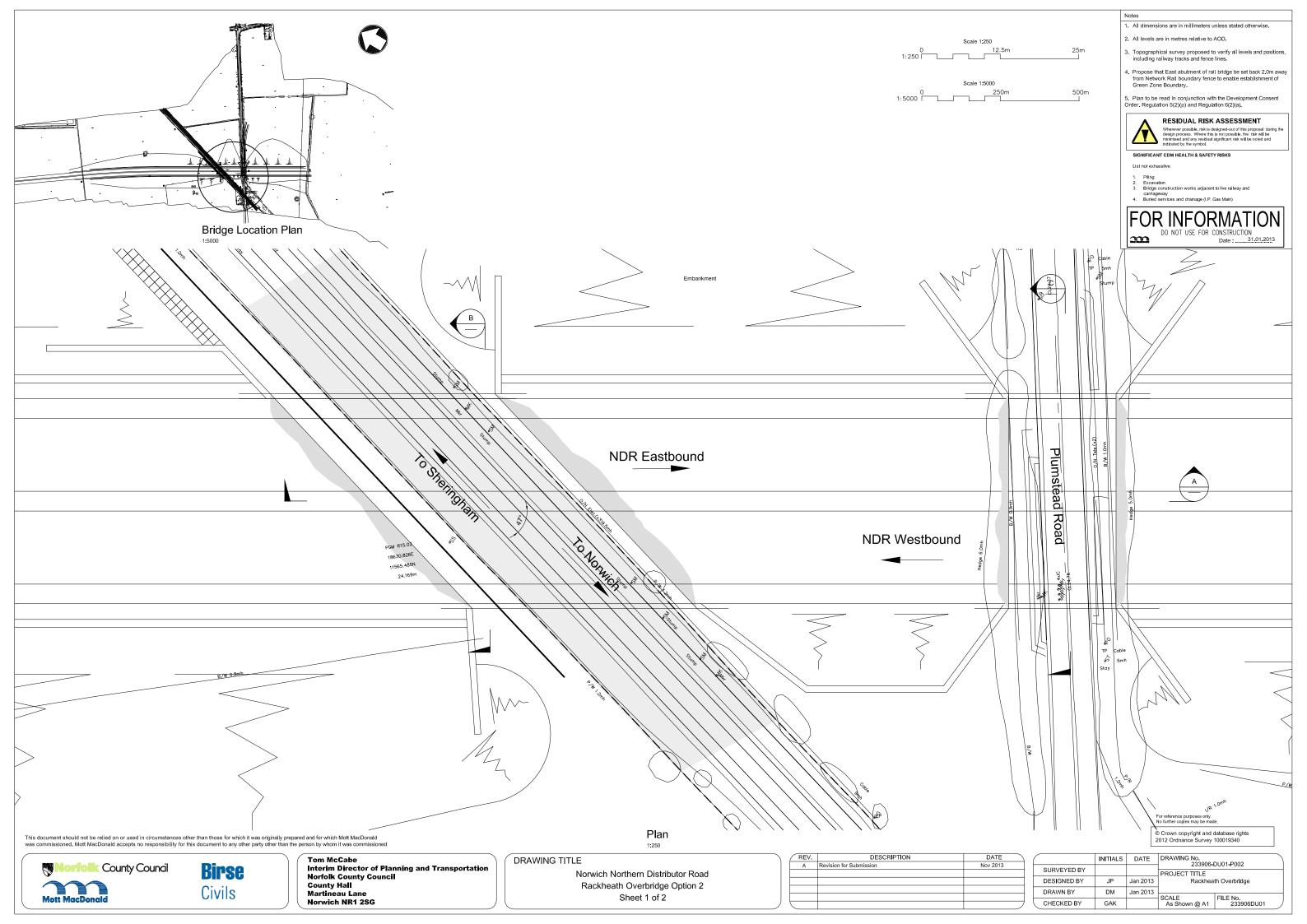
REV.	DESCRIPTION	DATE		
A	Revision for Submission	Nov 2013		
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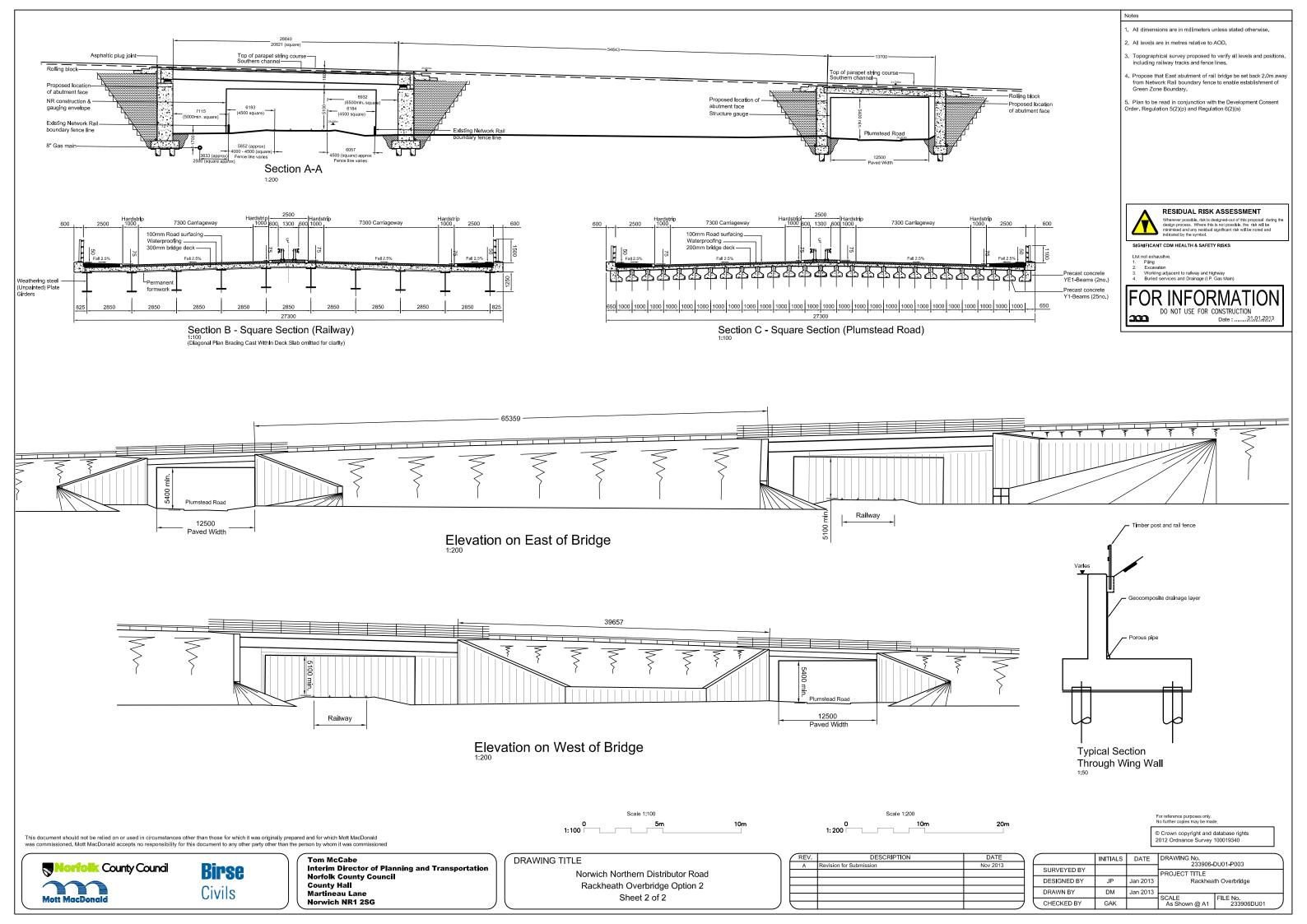
	INITIALS	DATE	DRAWING No.	D-TC 4102
SURVEYED BY			1(1013)	3-10-102
SURVETED BT			PROJECT TITLE	
DESIGNED BY	JP	Aug. 2009	Postwick Junction	
DRAWN BY	SRV	Sept. 2009		
JIVWIN DI	Oitv	OCP1. 2000	SCALE	FILE No.
CHECKED BY	GAK		As Shown @ A1	/ I I I I I I I I I I I I I I I I I I I

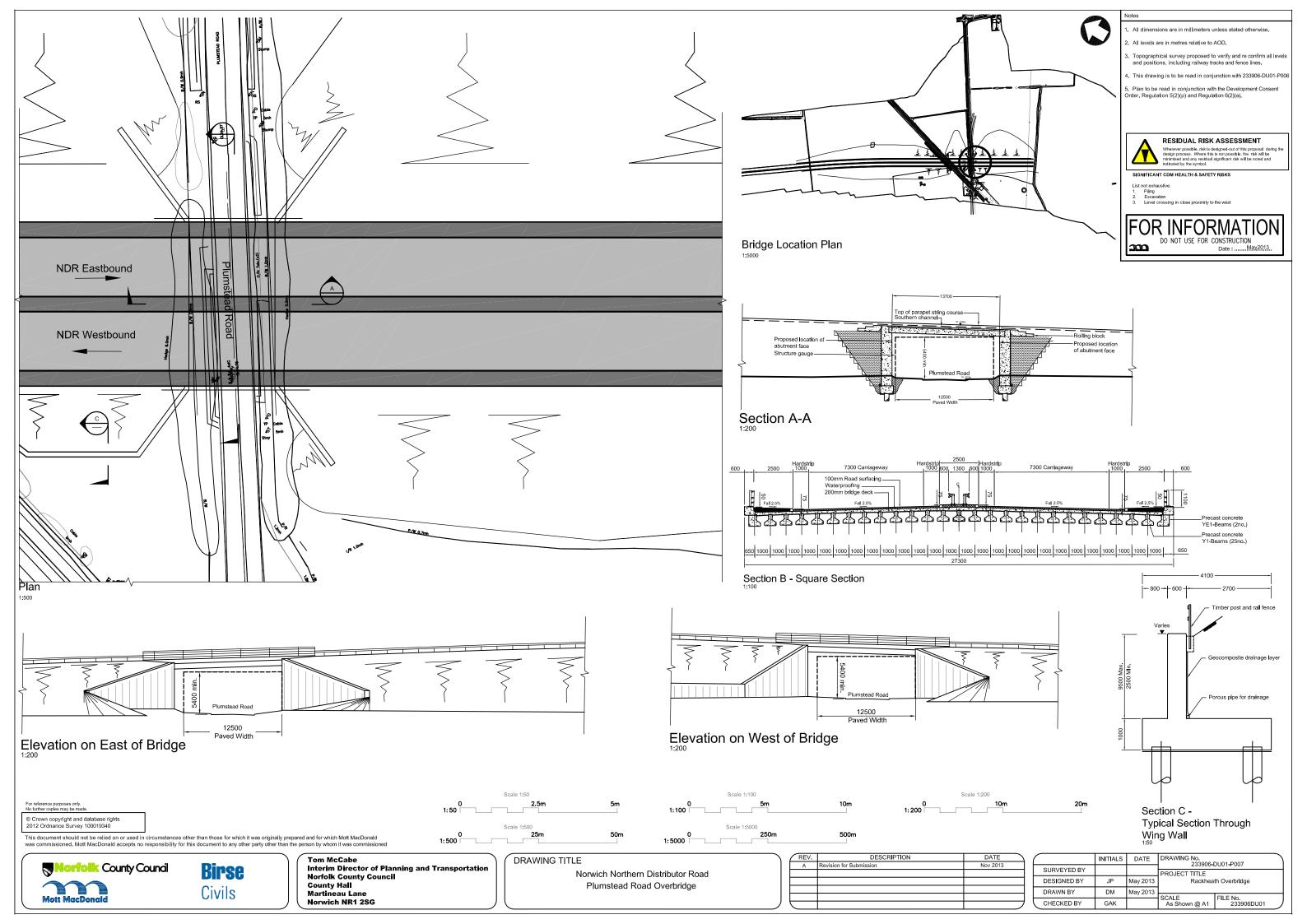


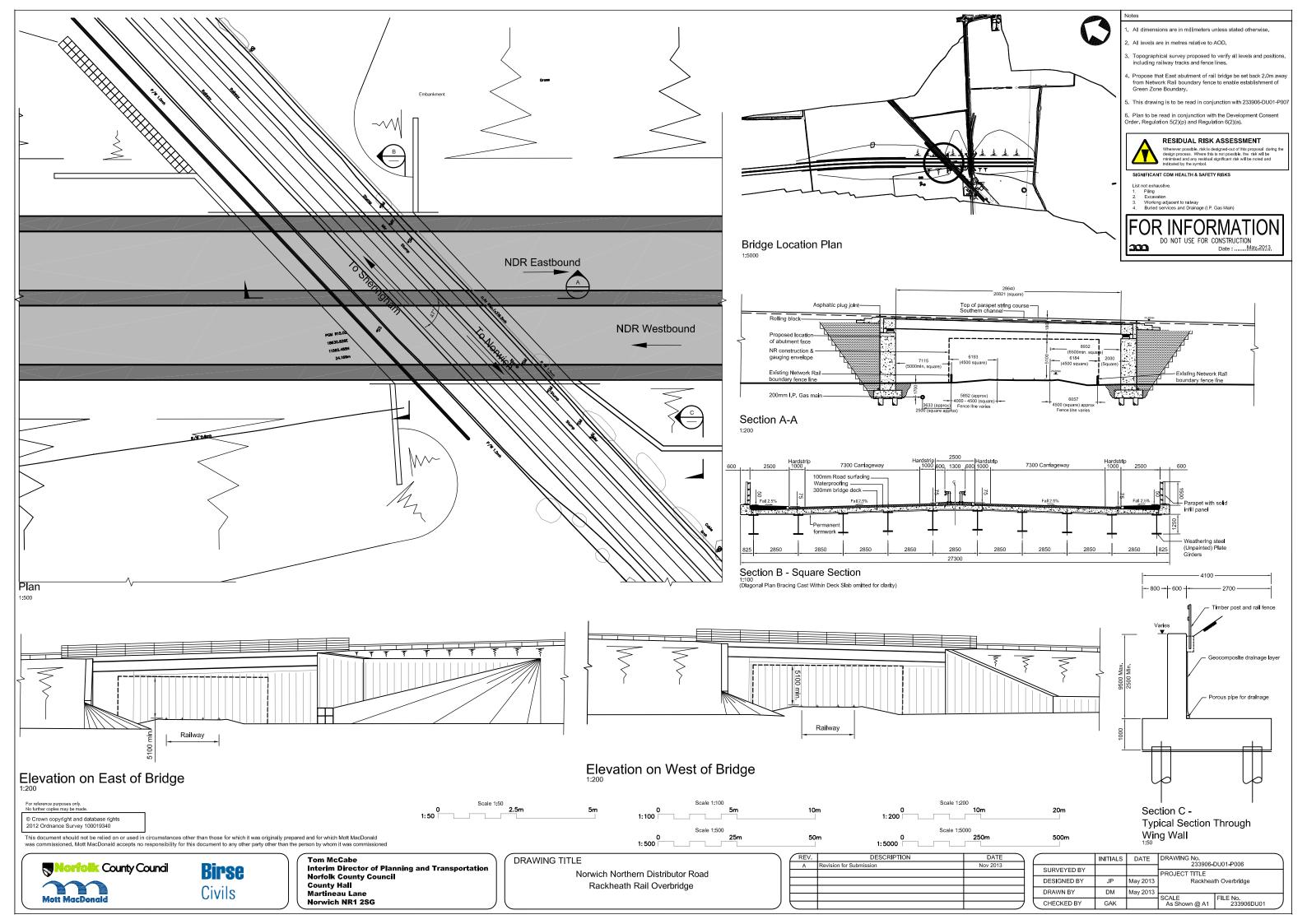














- All dimensions are in millimeters unless stated otherwise.
- 2. All levels are in metres relative to AOD.
- Topographical survey proposed to verify all levels and positions including rallway tracks and fence lines.
- Foundations are indicative at this stage.
- 5. This drawing is to be read in conjunction with: 233906-EC01-0001 Bat Gantry 01 233906-EC01-0002 Bat Gantry 02 233906-EC01-0002 Bat Gantry 03 233906-EC01-0004 Bat Gantry 04 233906-EC01-0005 Bat Gantry 05 233906-EC01-0006 Bat Gantry 06 233906-EC01-0007 Bat Gantry 07
- Plan to be read in conjunction with Development Consent Order. Regulation 5(2)(o)



RESIDUAL RISK ASSESSMENT

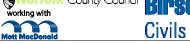
Wherever possible, risk is designed-out of this proposal during th design process. Where this is not possible, the risk will be minimised and any residual significant risk will be noted and indicated by the symbol.

SIGNIFICANT CDM HEALTH & SAFETY RISKS

List not exhaustive.

A 25/11/13 Revision for Submission Description

Norfolk County Council Binsg



Tom McCabe
InterIm Director of Environment, Transport and
Development
Norfolk County Council
County Hall
Martineau Lane
Norwich NR1 2SG

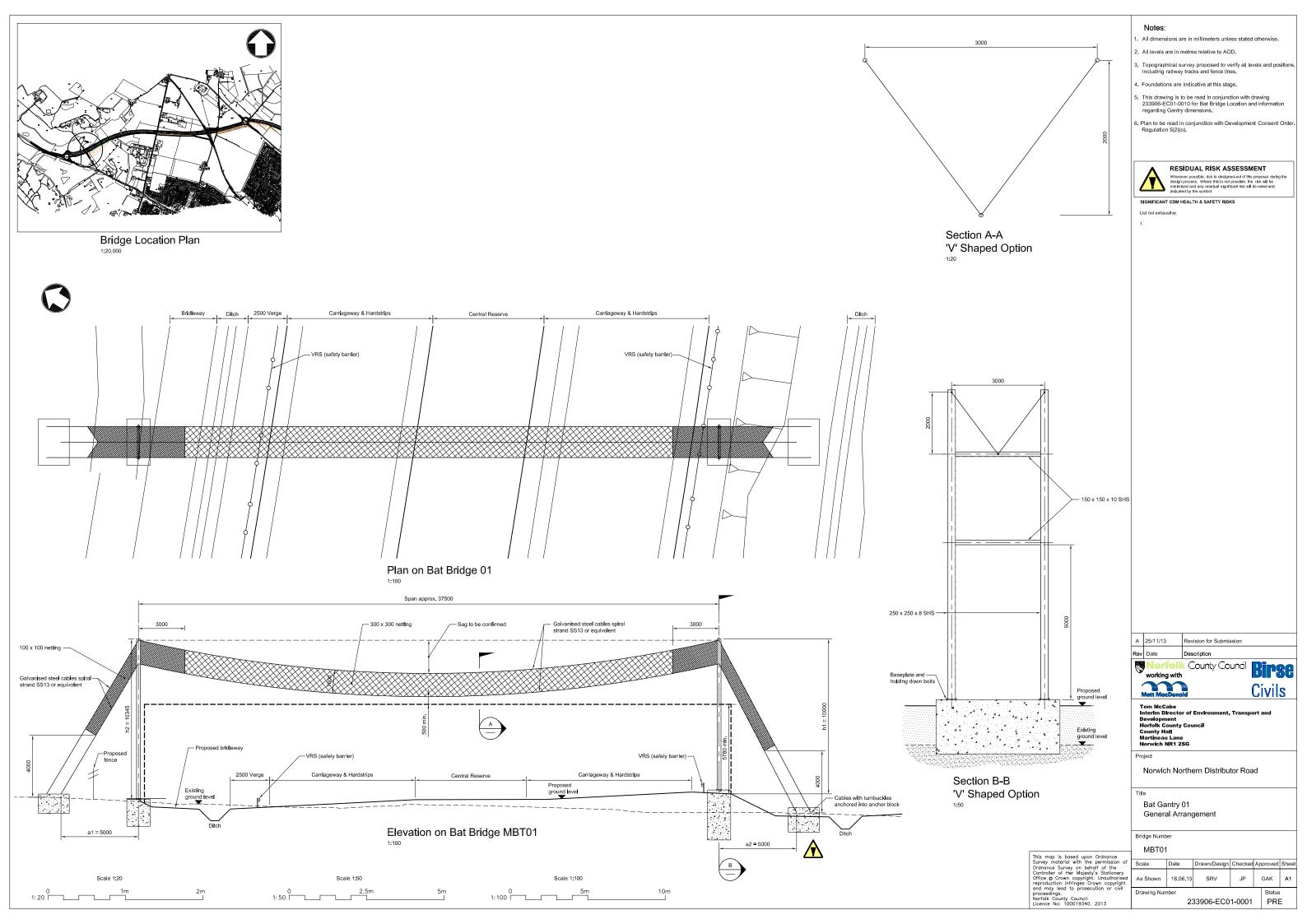
Norwich Northern Distributor Road

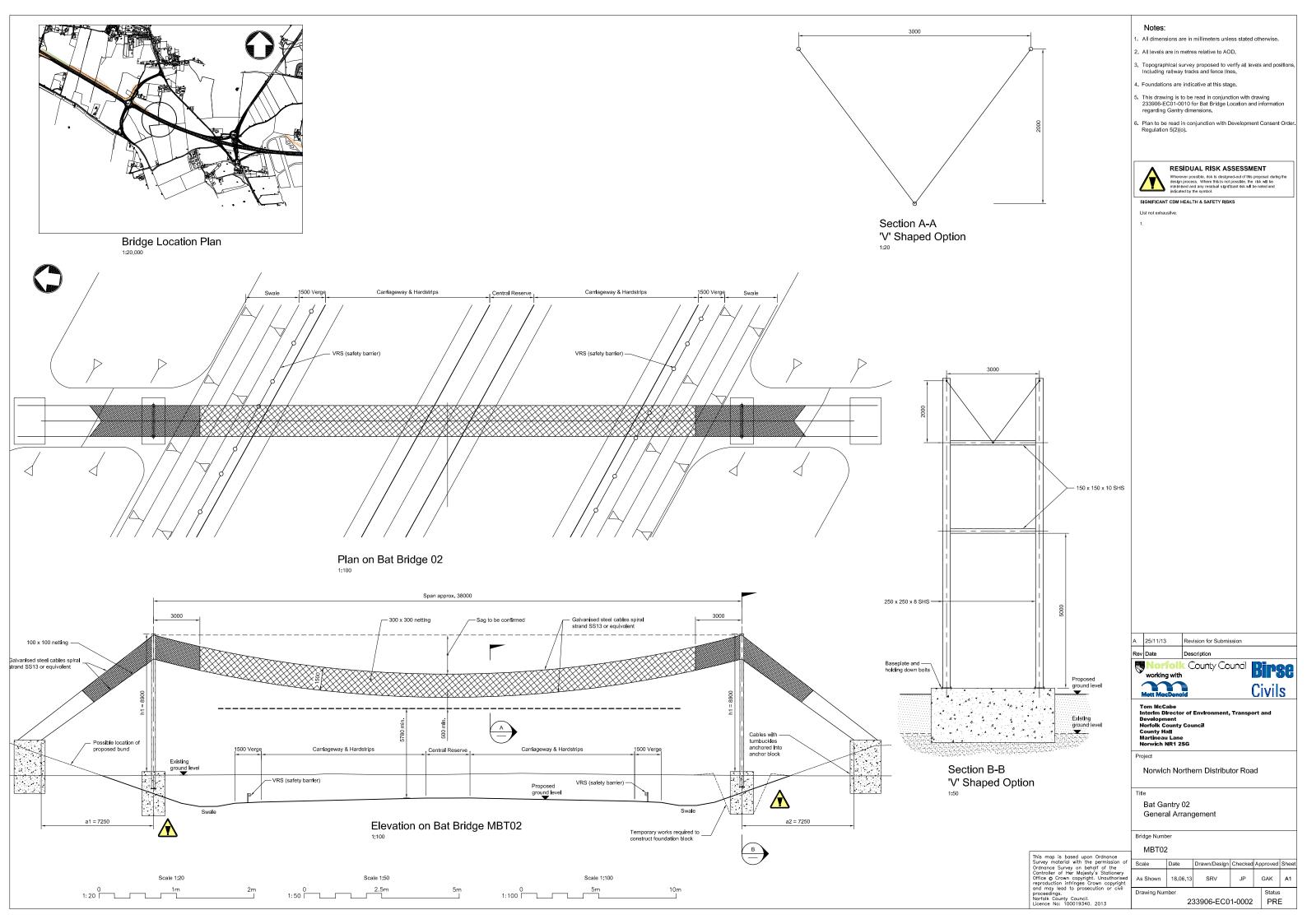
Bat Gantry Locations

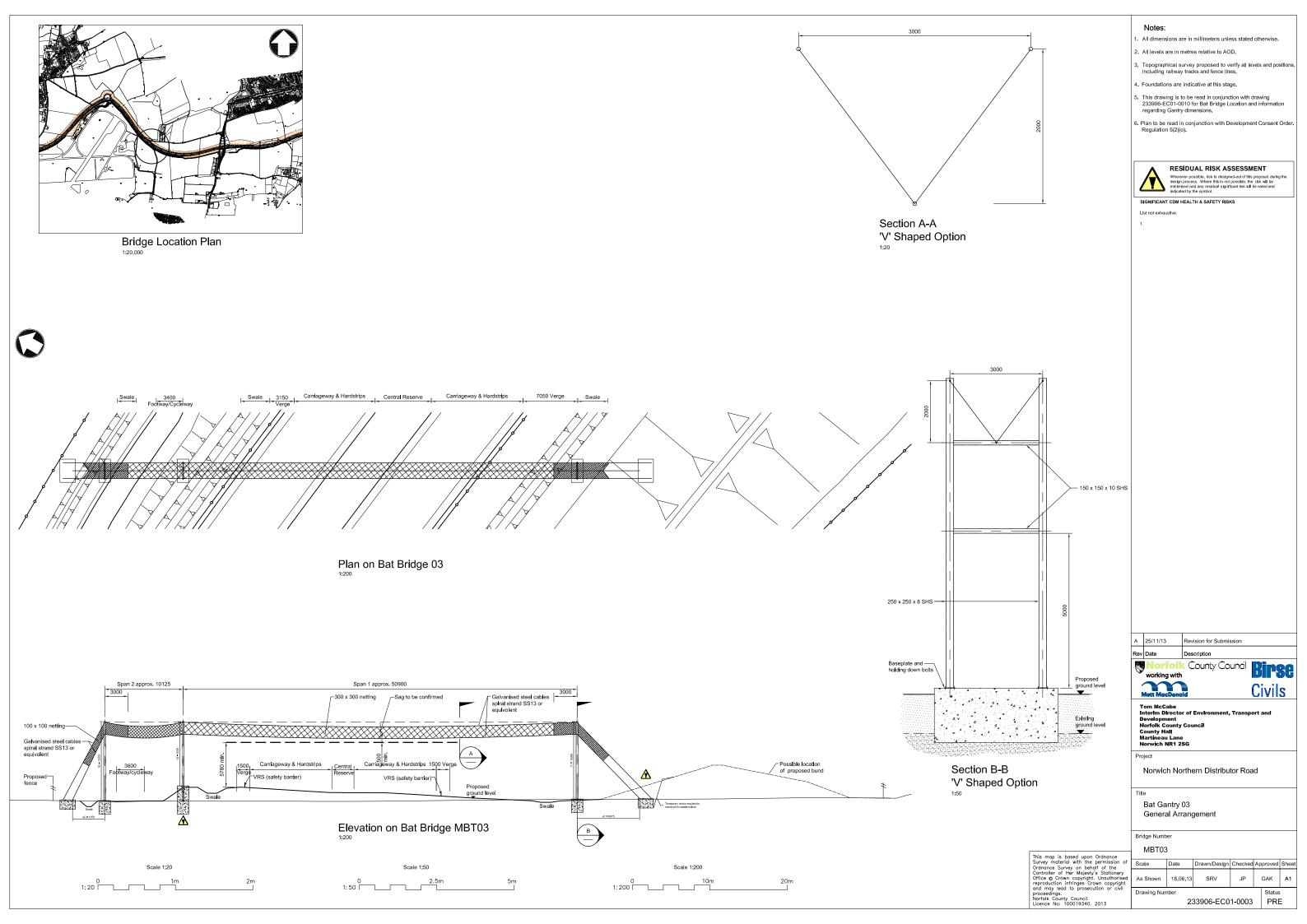
Bridge Number

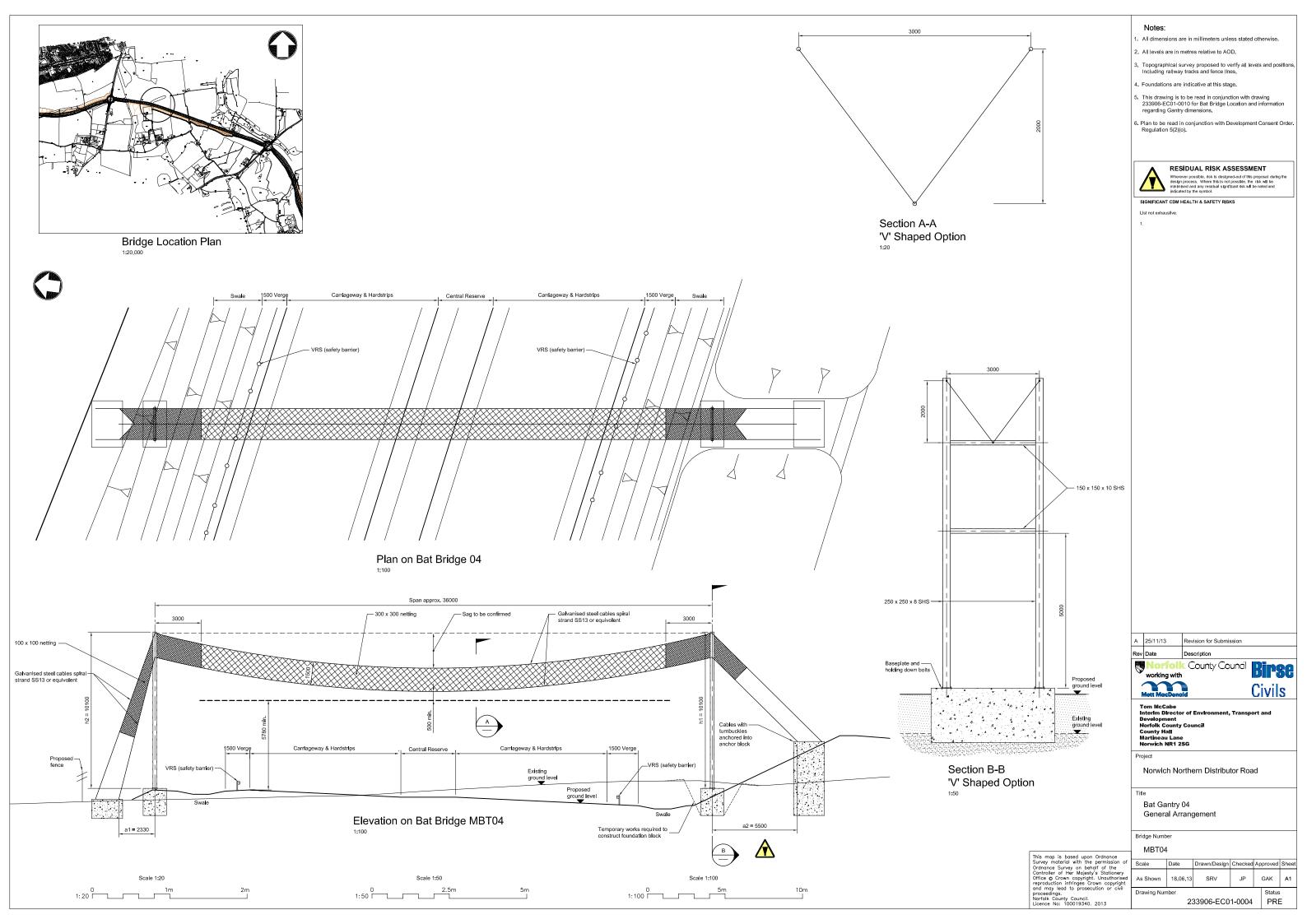
MBT01 to MBT07

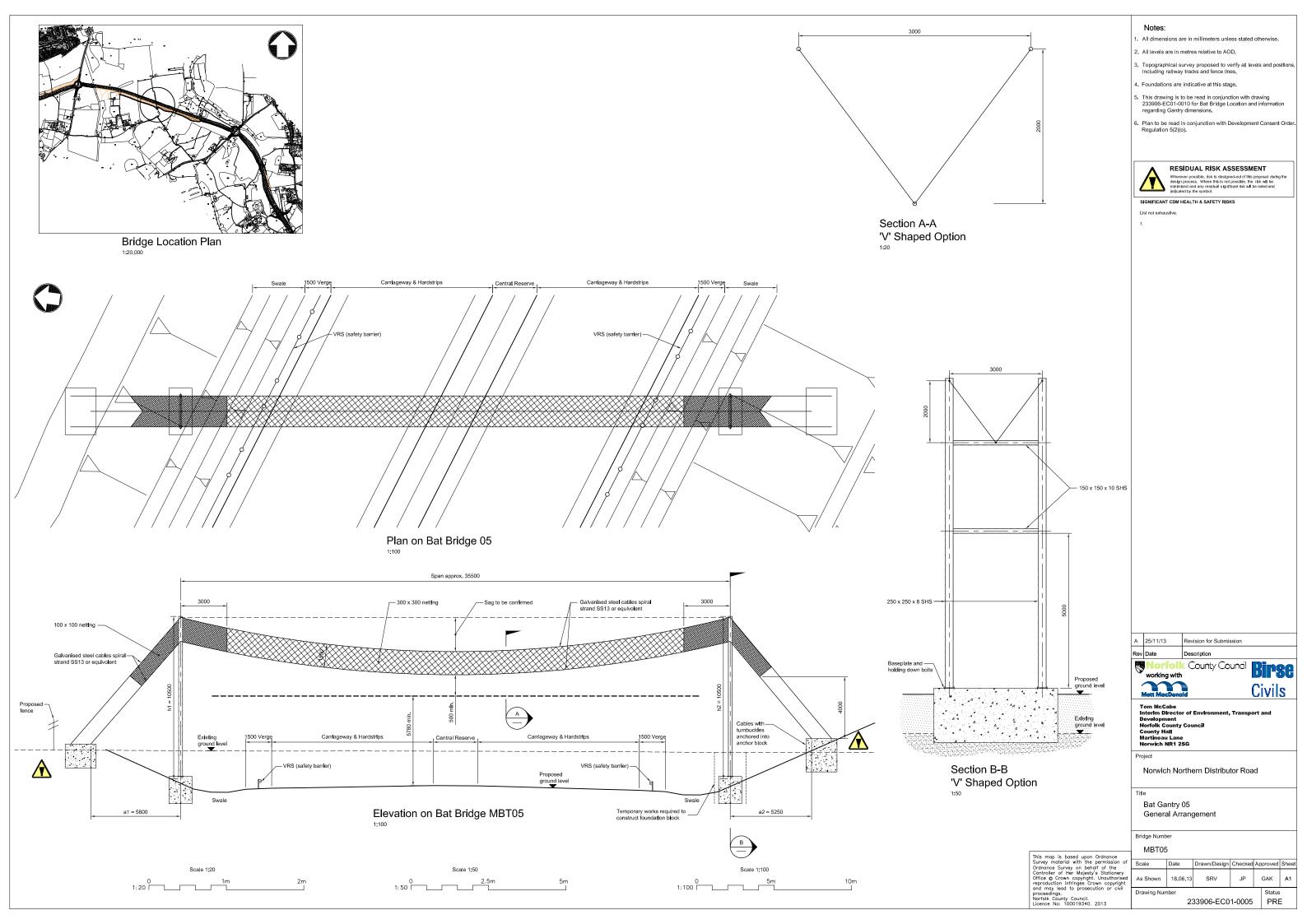
This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of Survey of Her Majesty of Stationery Officers of Her Majesty of Stationery Officers of Her Majesty of Stationery Officers of Her Majesty of Her Maj Drawn/Design Checked Approved Sheet GAK A1 18.06.13 233906-EC01-0010 PRE

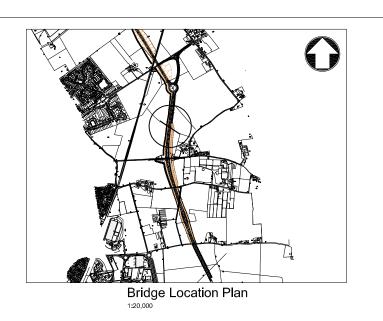




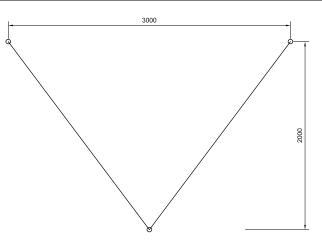








100 x 100 netting



Section A-A 'V' Shaped Option

RESIDUAL RISK ASSESSMENT

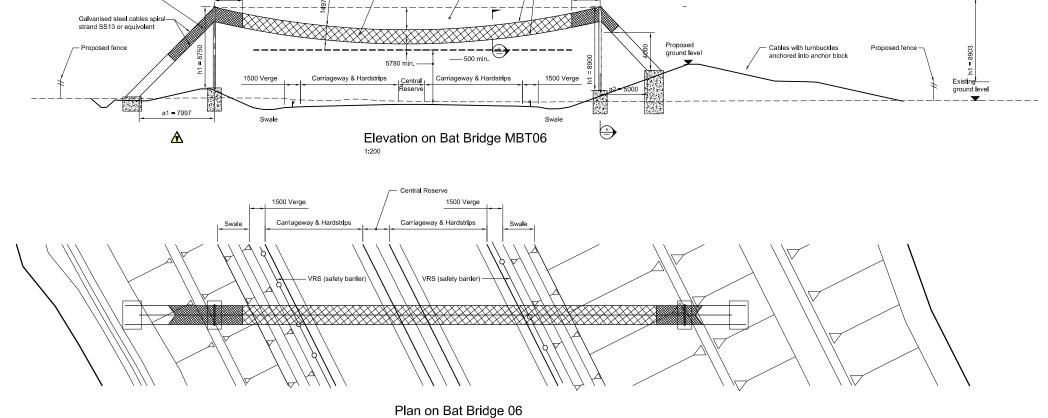
. All dimensions are in millimeters unless stated otherwise.

Topographical survey proposed to verify all levels and position including railway tracks and fence lines.

 This drawing is to be read in conjunction with drawing 233906-EC01-0010 for Bat Bridge Location and information regarding Gantry dimensions. Plan to be read in conjunction with Development Consent Ord Regulation 5(2)(o).

4. Foundations are indicative at this stage.

SIGNIFICANT CDM HEALTH & SAFETY RISKS

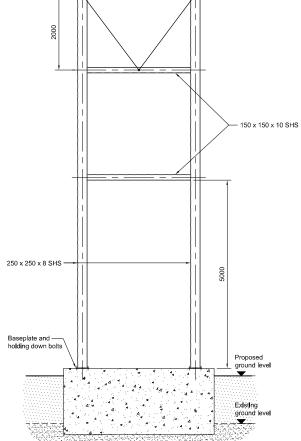


Span approx. 41000 - 300 x 300 netting

1: 50

—Galvanised steel cables spiral strand SS13 or equivolent

Scale 1:200



Section B-B 'V' Shaped Option

A 25/11/13 Revision for Submission

Norfolk County Council Birse Mott MacDenald

Tom McCabe Interim Director of Environ Development Norfolk County Council County Hall Martineau Lane Norwich NR1 2SG

Civils

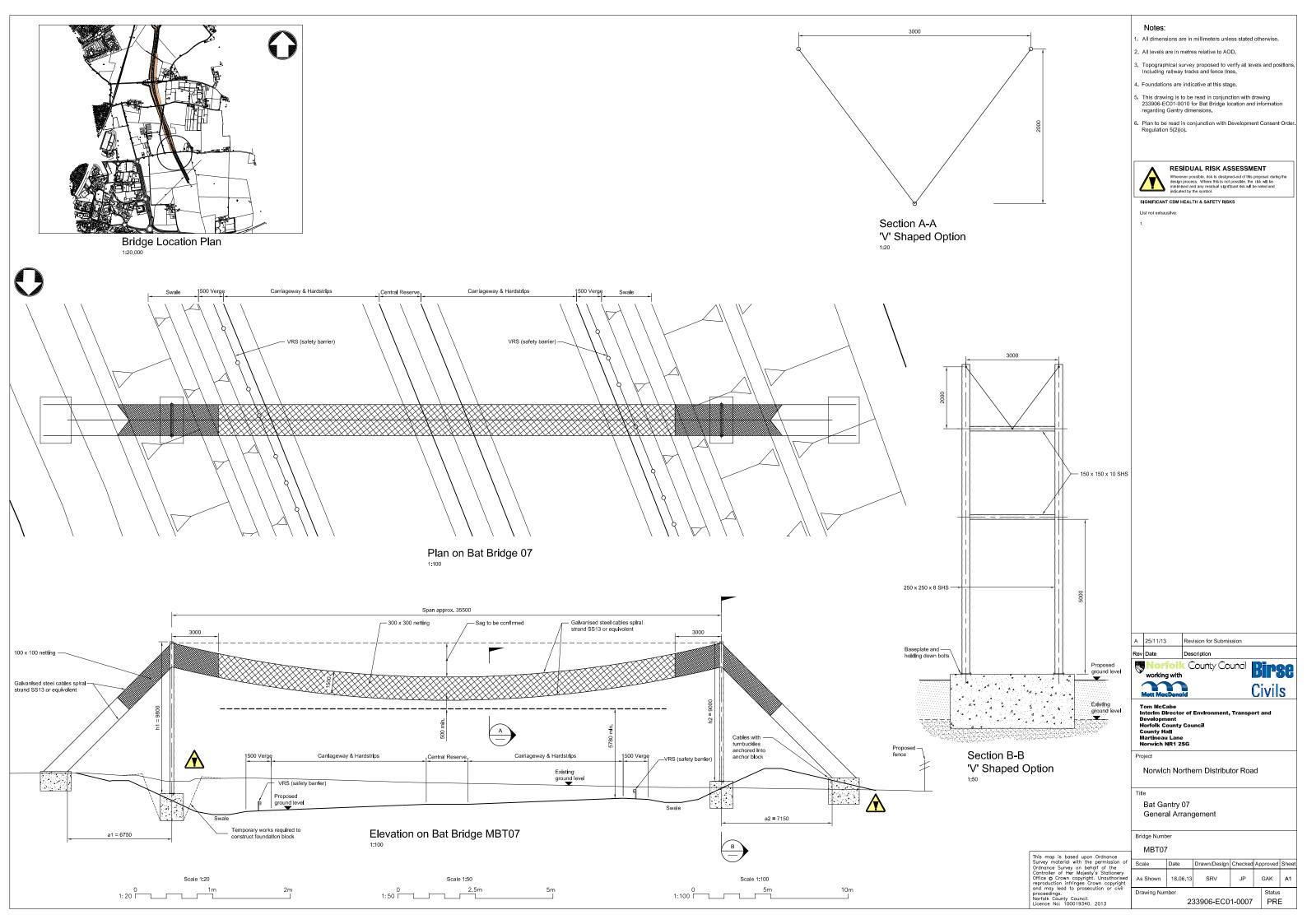
Norwich Northern Distributor Road

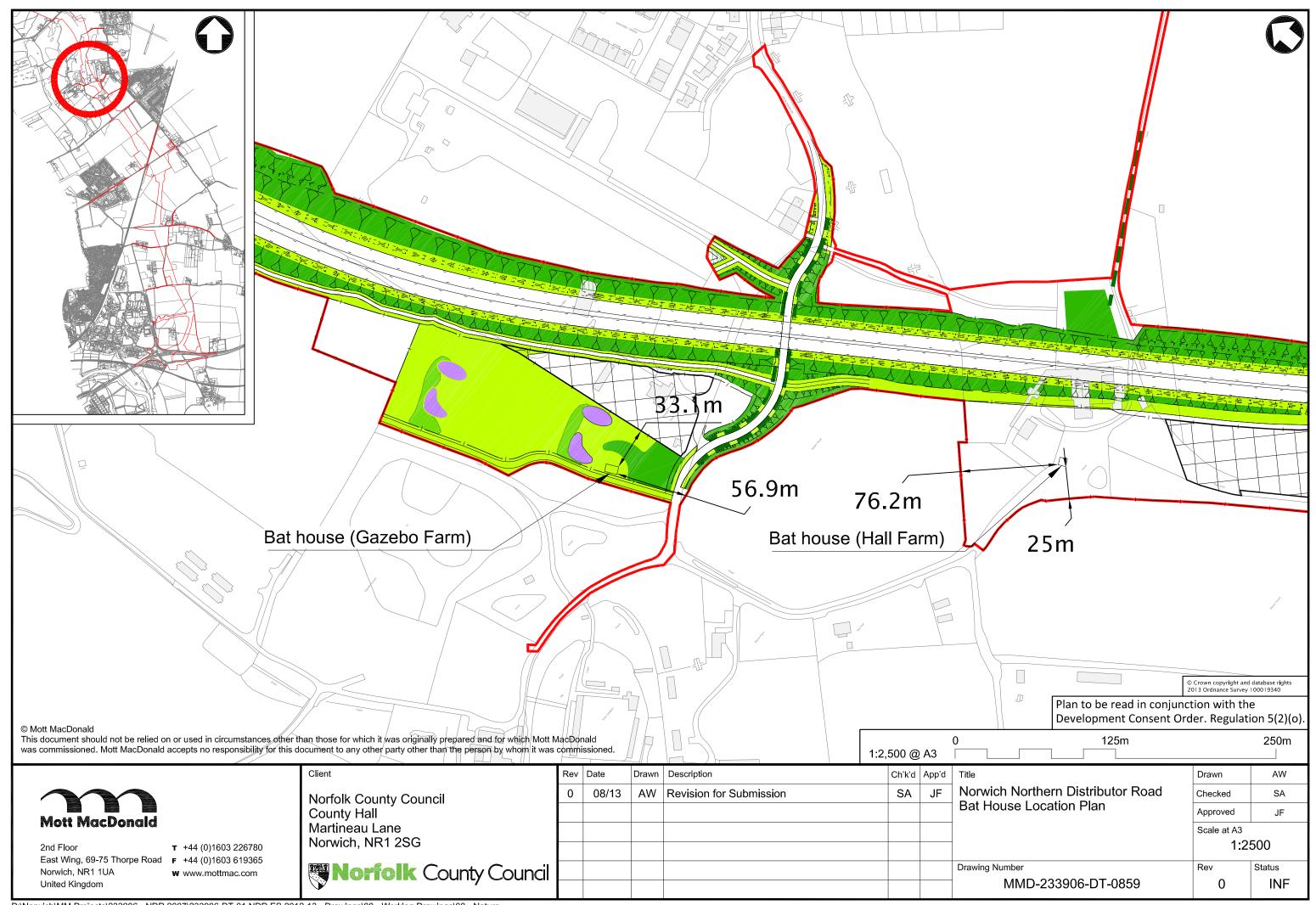
Title

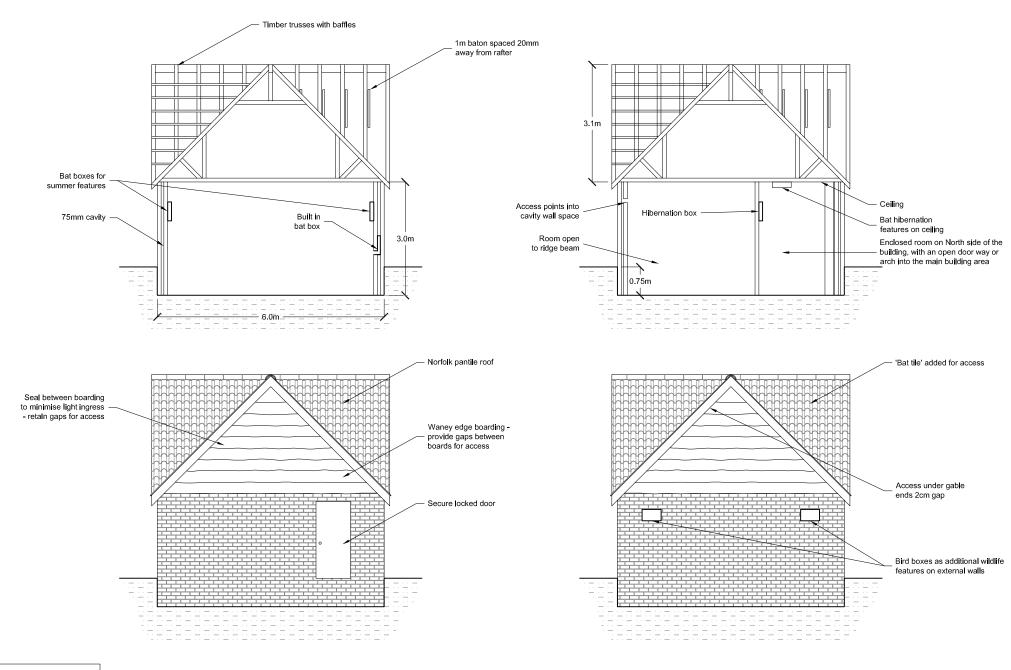
Bat Gantry 06 General Arrangement

Bridge Number

MBT06 Drawn/Design Checked Approved Shee 18.06.13 233906-EC01-0006 PRE







Note: A number of wooden baffles, bat boxes and hibernation features will be installed in the bat house to provide additional roosting opportunities.

Plan to be read in conjunction with the Development Consent Order. Regulation 5(2)(o).

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5m 10m 1:100



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Norfolk County Council County Hall Martineau Lane NR1 2SG

Norfolk County Council

Rev	Date	Drawn	Description	Ch'k'd	App'd	Title	Drawn	AW
0	11/13	AW	Revision for Submission	SA	JF	Norwich Northern Distributor Route	Checked	SA
						Bat Mitigation Hall Farm Bat House	Approved	JF
						Trail Farm Bat House	Scale at A3	•
							1:1	00
						Drawing Number	Rev	Status
						MMD-233906-DT-0654	0	INF

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