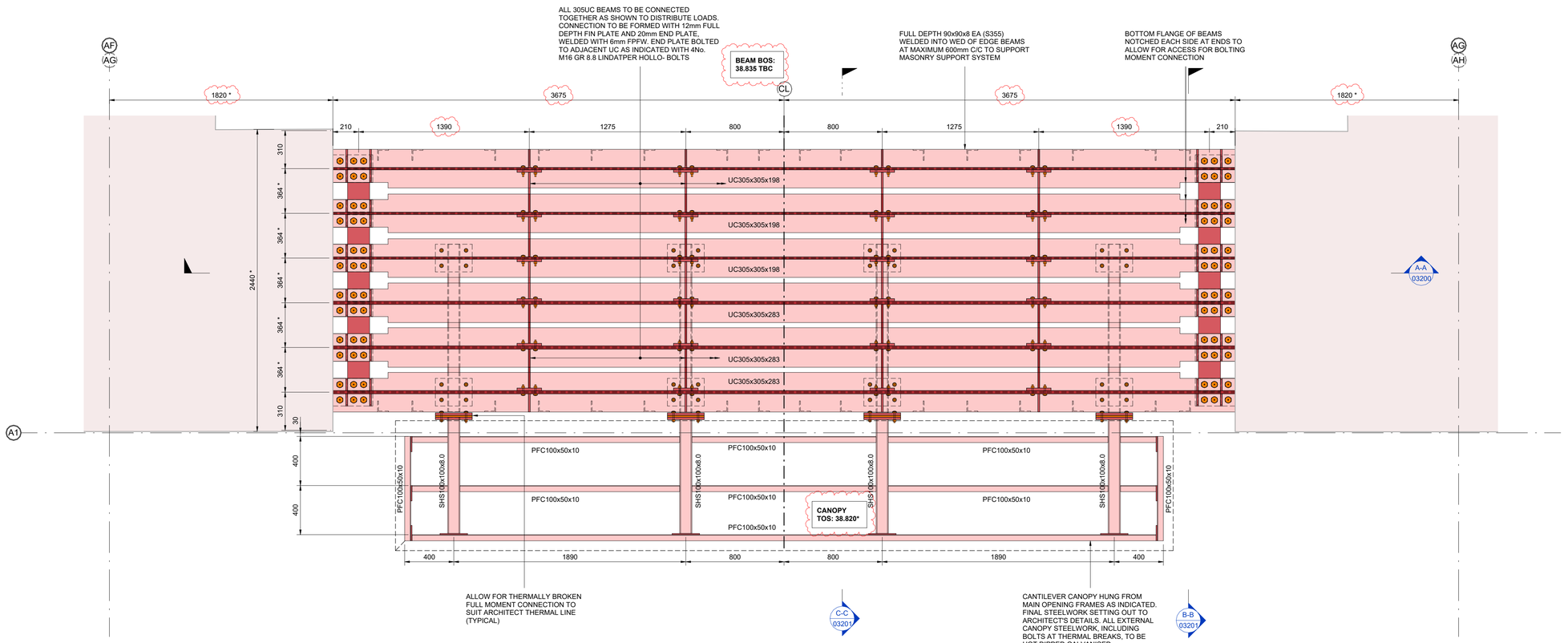
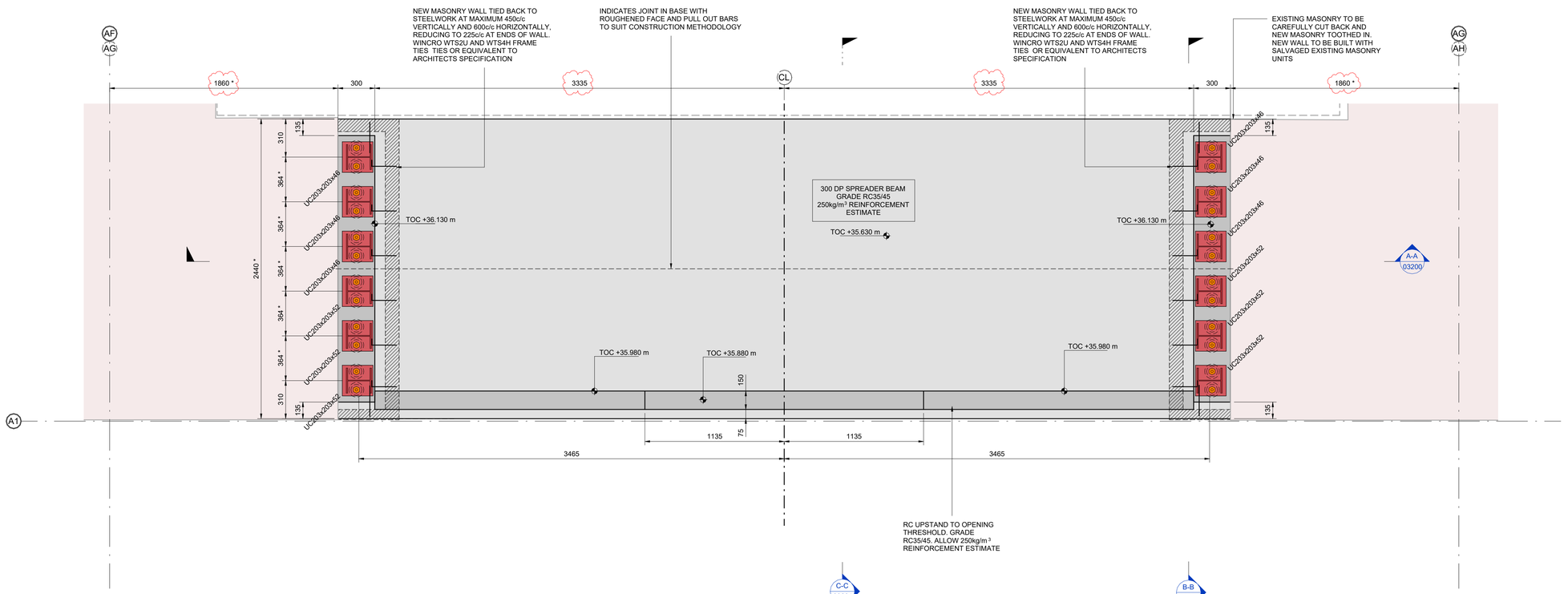


STEEL BEAM PLAN



FOUNDATION PLAN

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
2. FOR ADDITIONAL NOTES REFER TO DRAWING V2B-REN-AA-ZZ-DR-S-03100.

HEALTH & SAFETY NOTES:
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Rev:	Description:	Date:	By:	Chkd:
P03	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
P02	RIBA STAGE 2 UPDATE	03.03.25	AMi	PC
P01	RIBA STAGE 2 ISSUE	14.02.24	AMi	KAG

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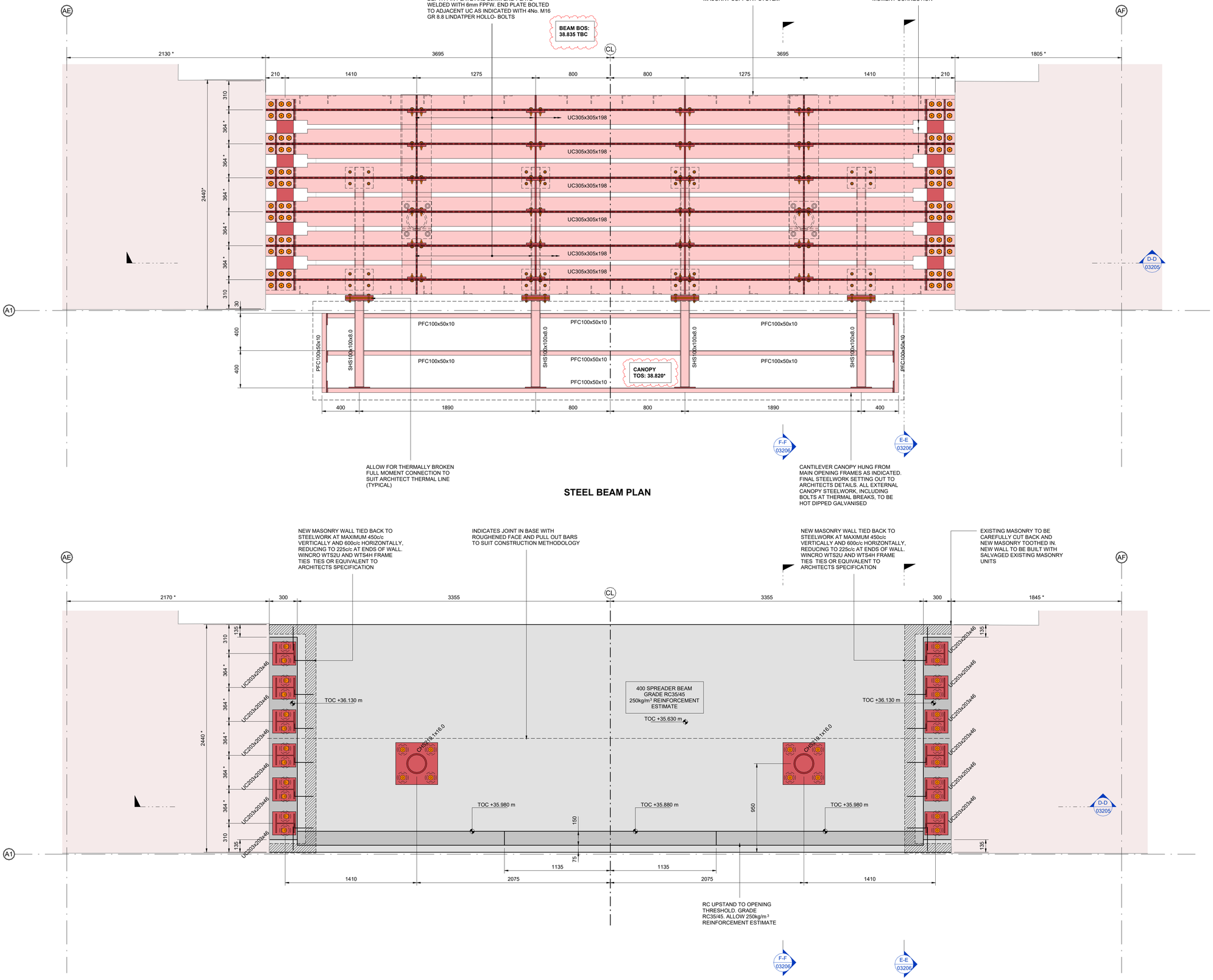
Drawing Title:
GBS ABUTMENT OPENING PLANS TYPE 1

Status:
STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	JAN 25	AMi	-	KAG

Scale: 1 : 20 | Project No: 2209-01

Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:
V2B - REN - AA - ZZ - DR - S - 03101 - P03



STEEL BEAM PLAN

FOUNDATION PLAN

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
2. FOR ADDITIONAL NOTES REFER TO DRAWING V2B-REN-AA-ZZ-DR-S-03100.

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P02	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
P01	RIBA STAGE 2 UPDATE	03.03.25	AMi	PC

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Project:
VIADUX 2B, MANCHESTER

Drawing Title:
GBS ABUTMENT OPENING PLANS TYPE 2

Status:
STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	JAN 25	AMi	-	KAG

Scale: 1 : 20 | Project No: 2209-01

Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:
V2B - REN - AA - ZZ - DR - S - 03102 - P02

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
2. FOR ADDITIONAL NOTES REFER TO DRAWING V2B-REN-AA-ZZ-DR-S-03100.

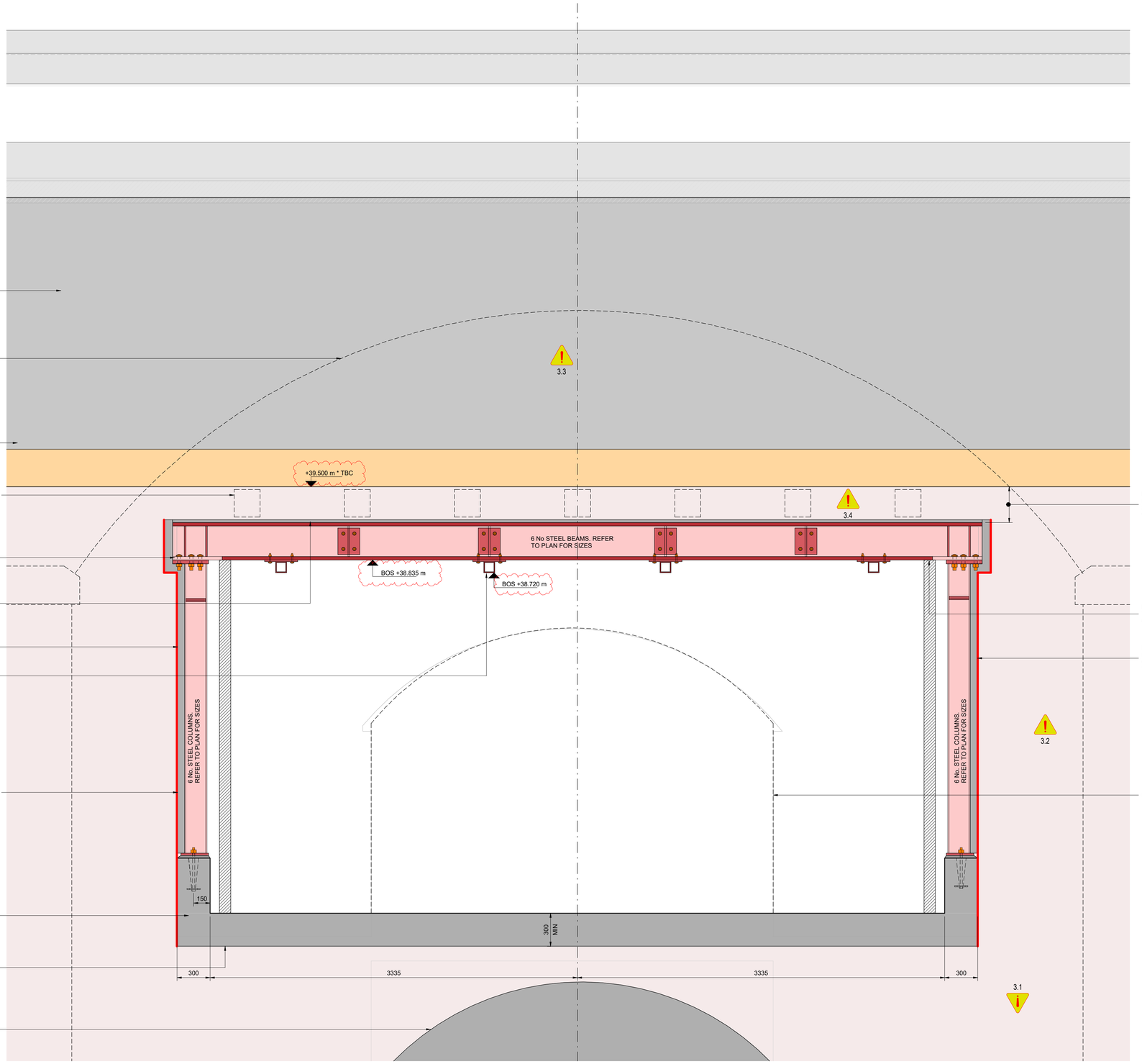
HEALTH & SAFETY NOTES:
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SECTION A-A GBS PENETRATION

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P03	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
P02	RIBA STAGE 2 UPDATE	03.03.25	AMi	PC
P01	RIBA STAGE 2 ISSUE	14.02.24	AMi	KAG

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Project:
VIADUX 2B, MANCHESTER

Drawing Title:
GBS ABUTMENT OPENING SECTIONS (SHEET 1)

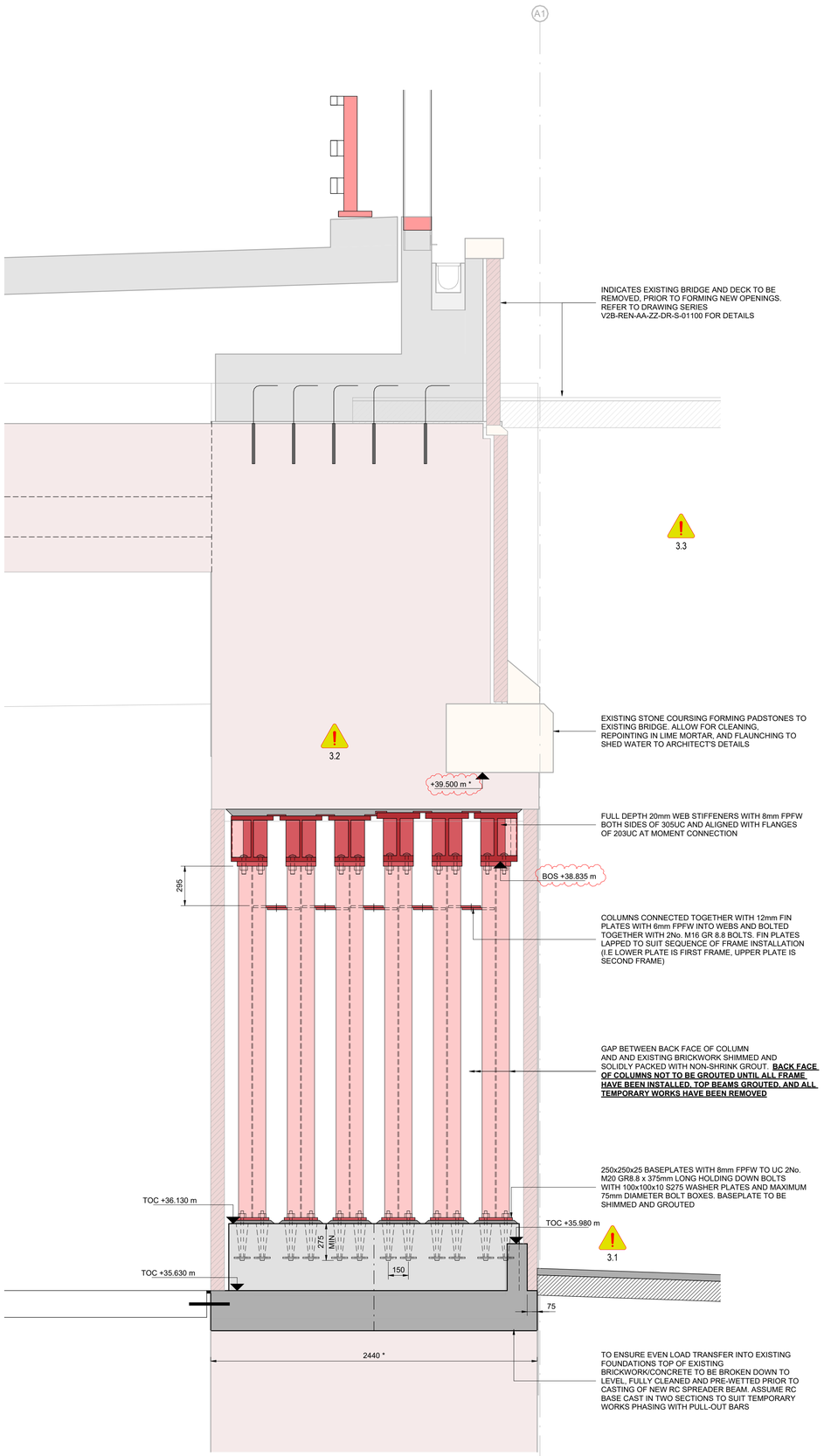
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Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	JAN 25	AMi	-	KAG

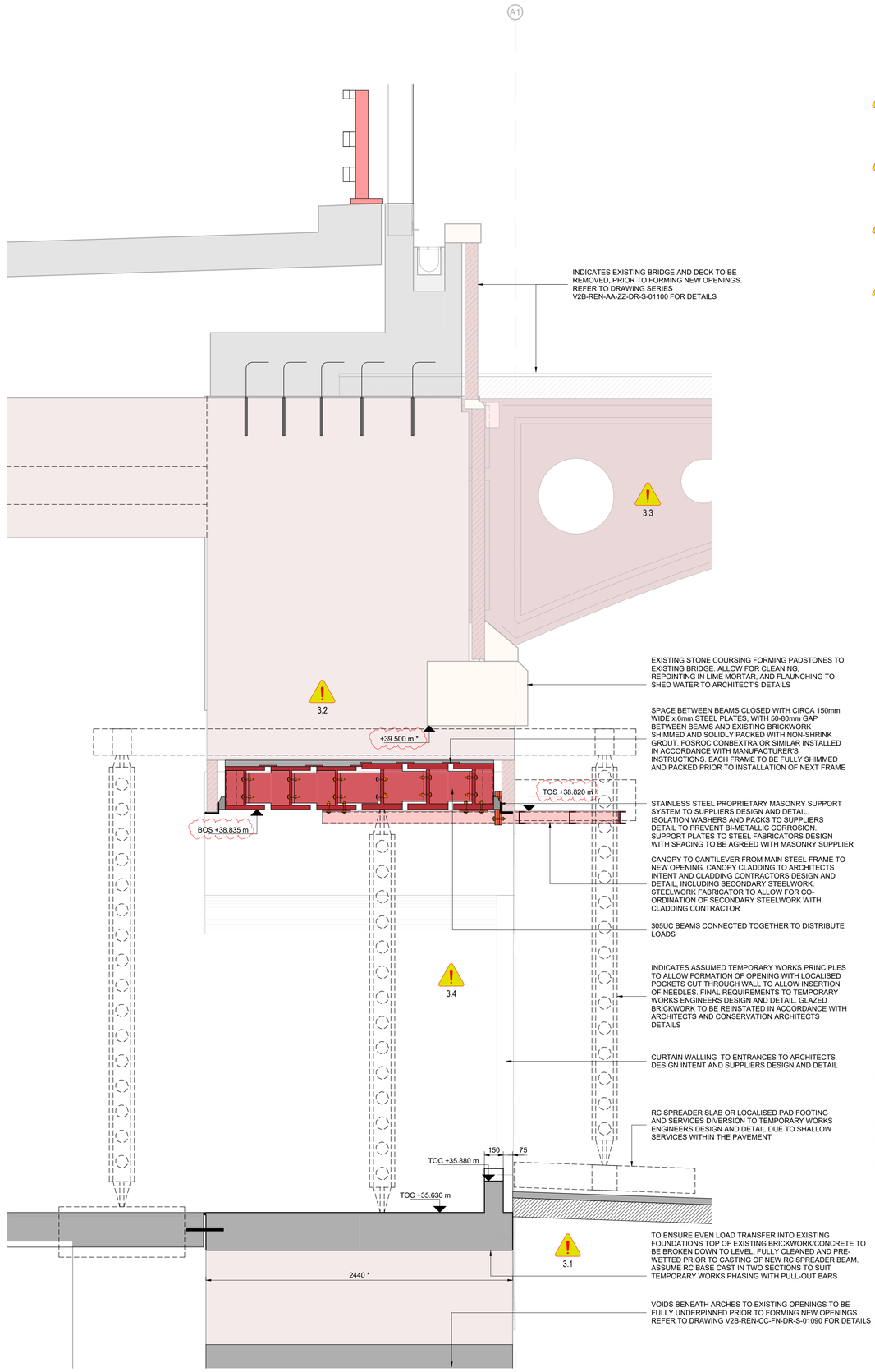
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Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:

V2B - REN - AA - ZZ - DR - S - 03200 - P03



SECTION B-B GBS PENETRATION



SECTION C-C GBS PENETRATION

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
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Project:
VIADUX 2B, MANCHESTER

Drawing Title:
GBS ABUTMENT OPENING SECTIONS (SHEET 2)

Status:
STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	JAN 25	AMi	-	KAG

Scale: 1 : 20 | Project No: 2209-01

Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:

V2B - REN - AA - ZZ - DR - S - 03201 - P03

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
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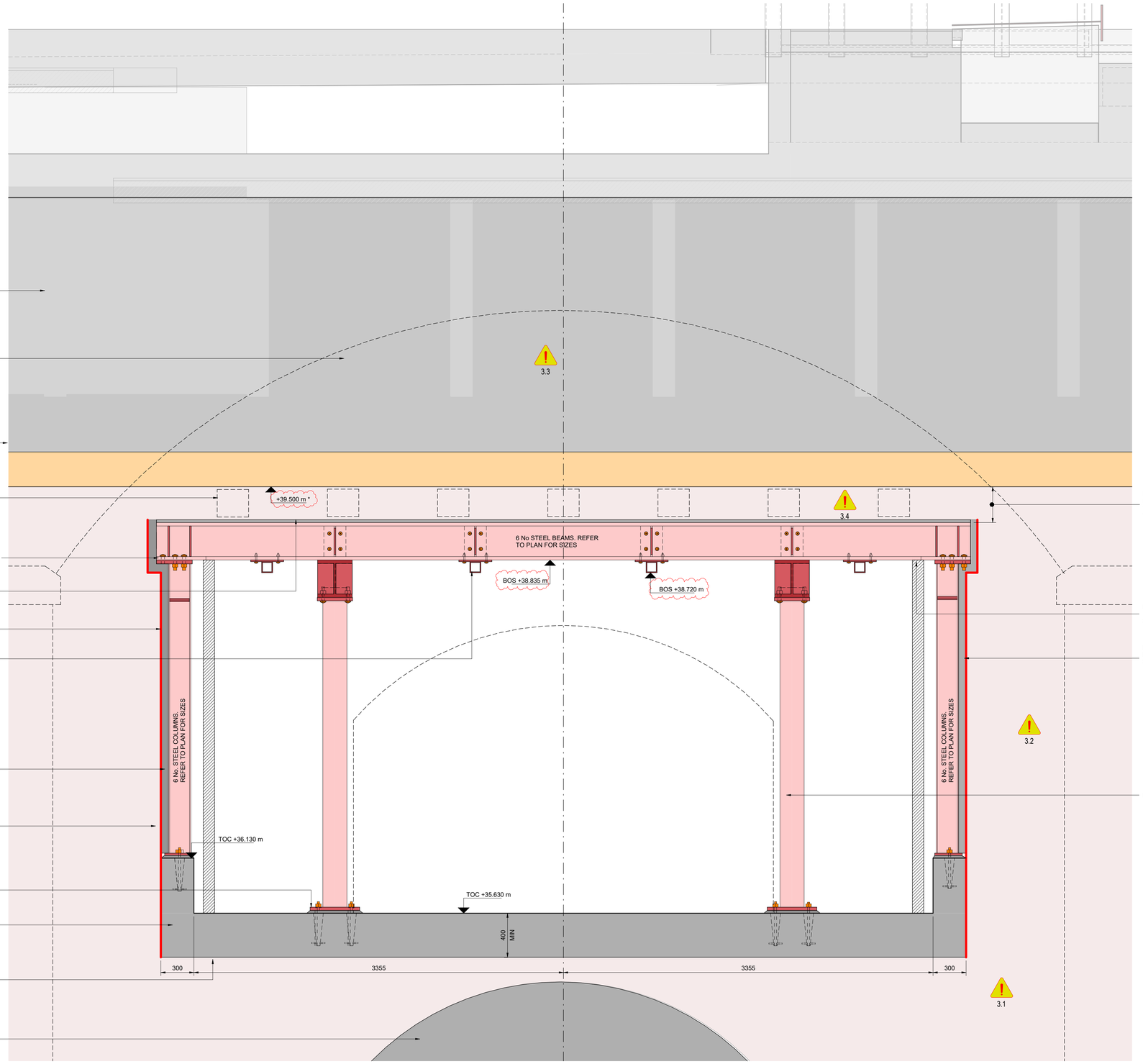
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SECTION D-D GBS PENETRATION

P02	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
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Rev:	Description:	Date:	By:	Chkd:

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Project:
VIADUX 2B, MANCHESTER

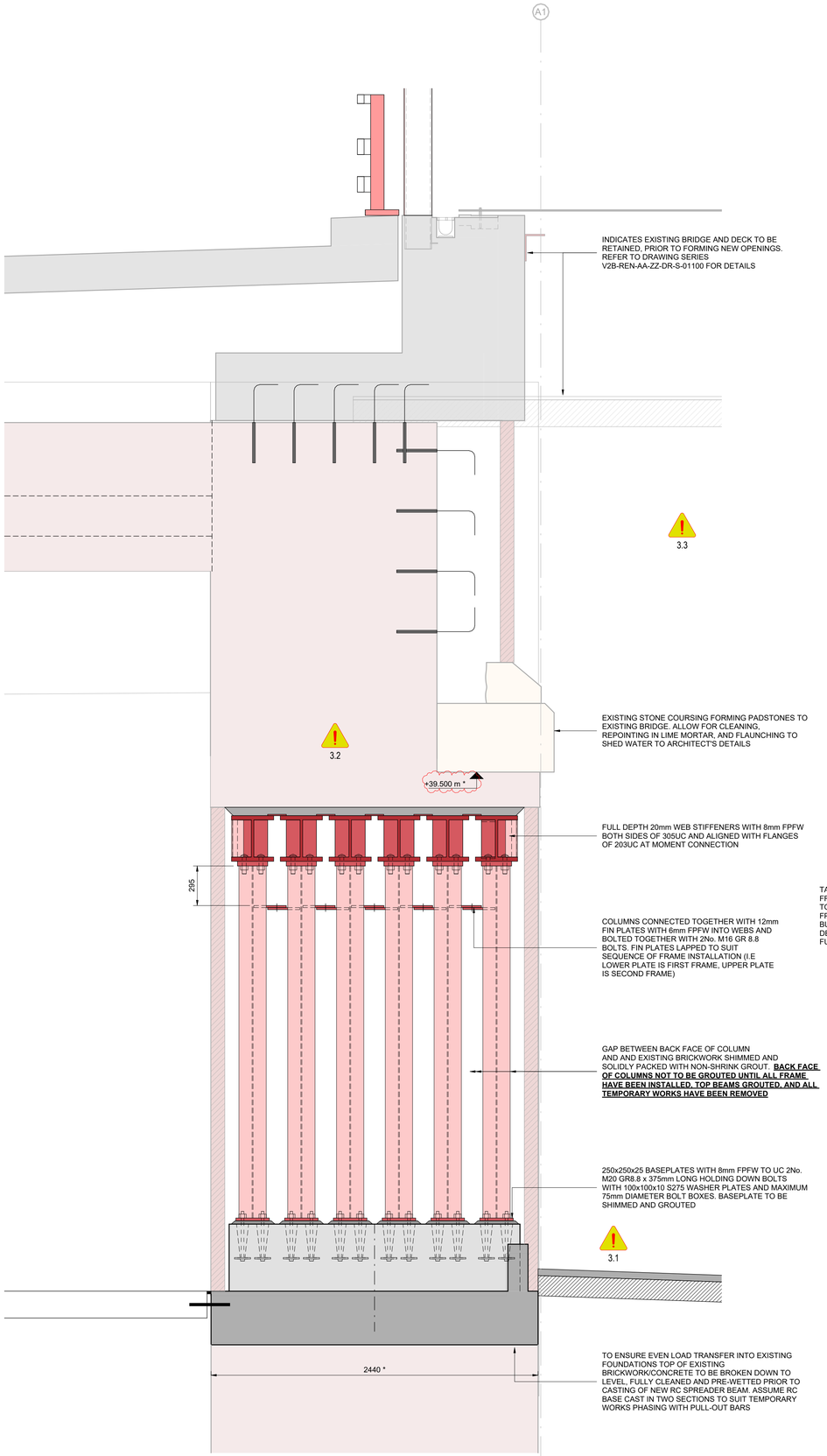
Drawing Title:
GBS ABUTMENT OPENING SECTIONS (SHEET 4)

Status:
STAGE 4

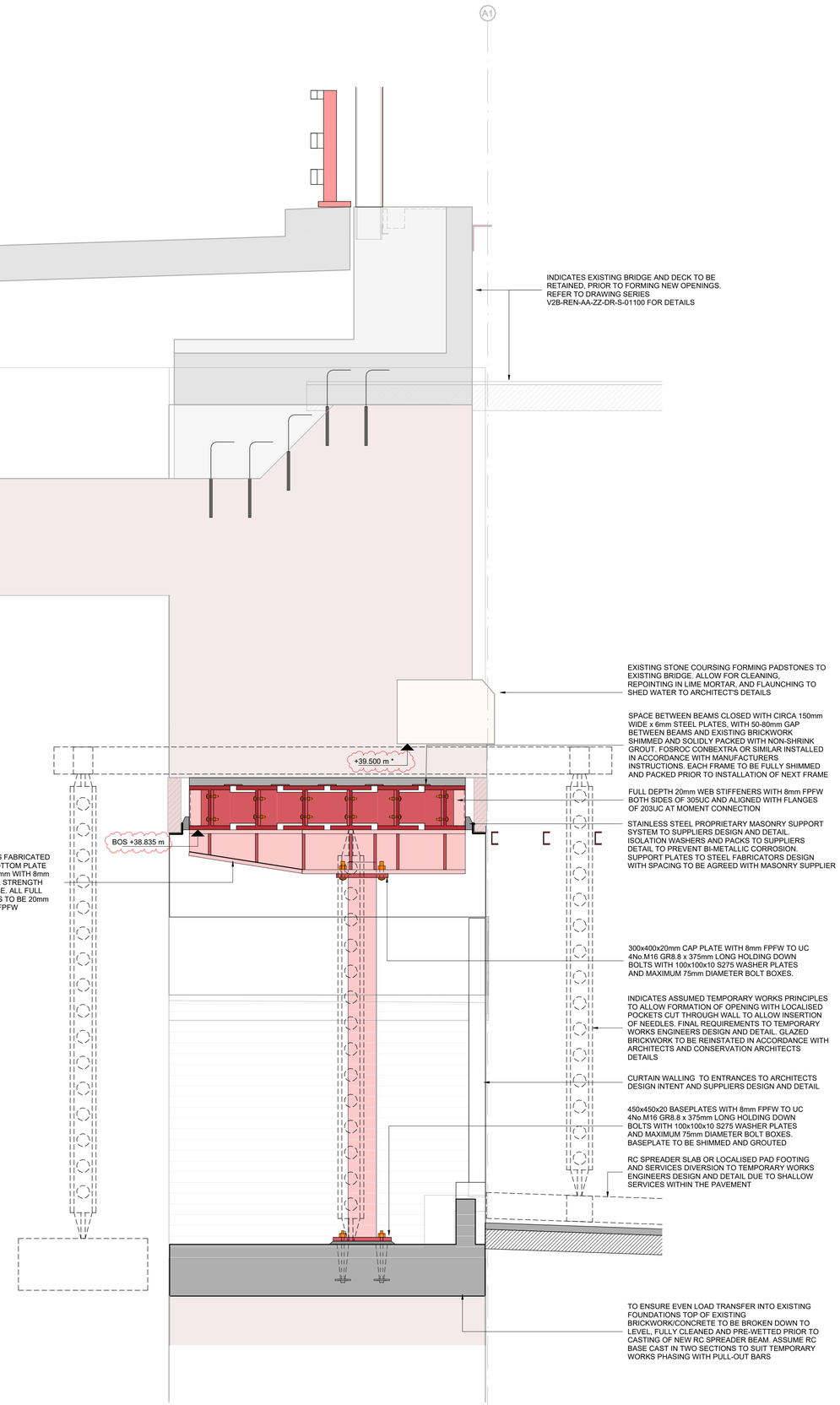
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A1	JAN 25	AMi	-	KAG

Scale: 1 : 20 | Project No: 2209-01

Project Code:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
V2B -	REN -	AA -	ZZ -	DR -	S -	03205 -	P02



SECTION E-E GBS PENETRATION



SECTION F-F GBS PENETRATION

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
2. FOR ADDITIONAL NOTES REFER TO DRAWING V2B-REN-AA-ZZ-DR-S-03100.

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P02	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
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Project:
VIADUX 2B, MANCHESTER

Drawing Title:
GBS ABUTMENT OPENING SECTIONS (SHEET 3)

Status:
STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	FEB 25	AMi	-	PC

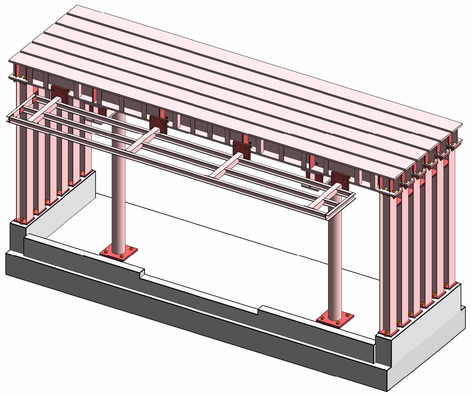
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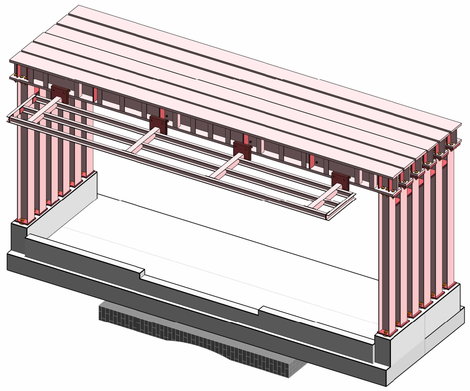
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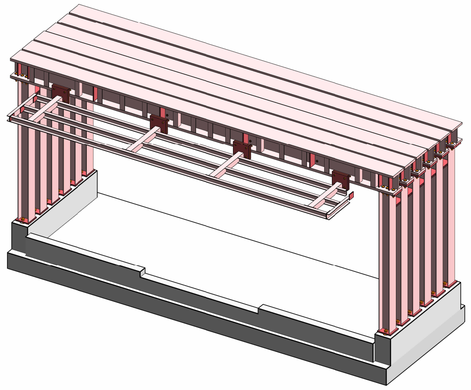
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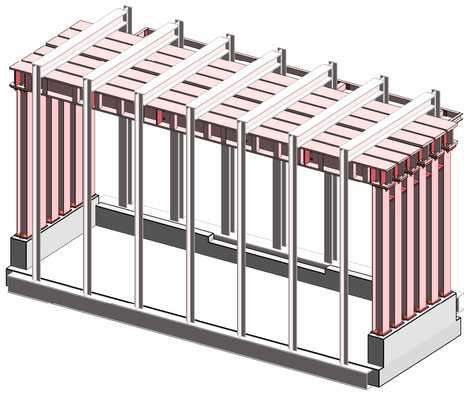
1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
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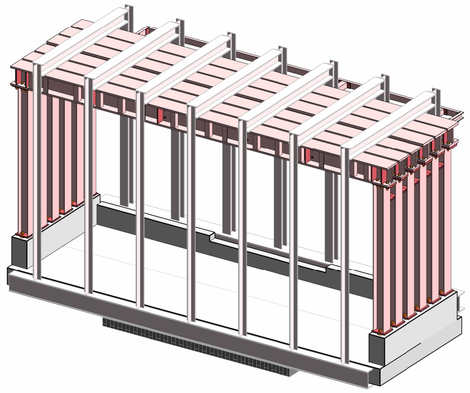


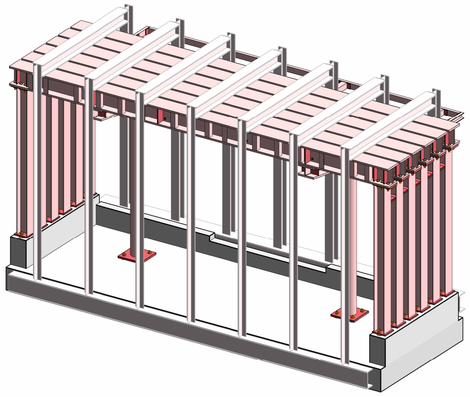




GBS OPENINGS 3D VIEW 1







GBS OPENINGS 3D VIEW 2

P03	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM
P02	RIBA STAGE 2 UPDATE	03.03.25	AMi	PC
P01	RIBA STAGE 2 ISSUE	14.02.24	AMi	KAG
Rev:	Description:	Date:	By:	Chkd:

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Project:

VIADUX 2B,
MANCHESTER

Drawing Title:

GBS ABUTMENT OPENINGS ISOMETRICS

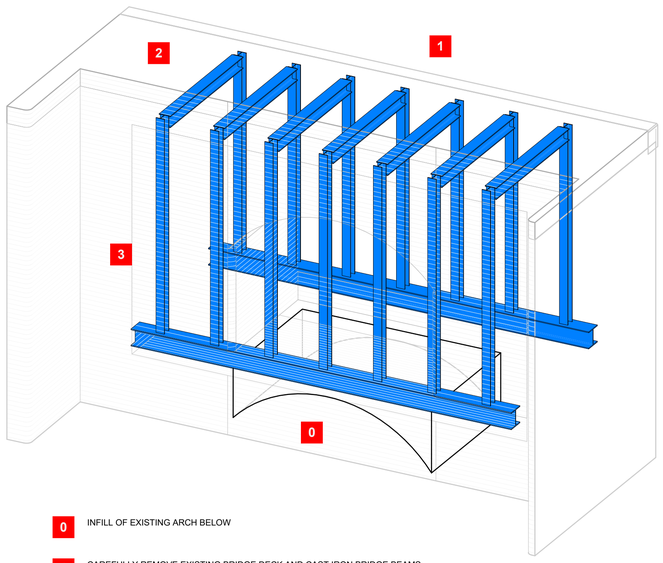
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STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	FEB 24	AMi	-	KAG

Scale:	Project No:
	2209-01

Project Code:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
V2B -	REN -	AA -	ZZ -	DR -	S -	03250 -	P03

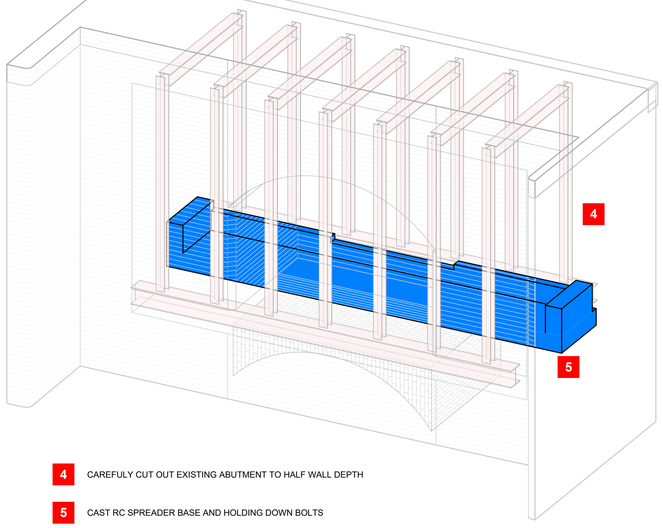


0 INFILL OF EXISTING ARCH BELOW

1 CAREFULLY REMOVE EXISTING BRIDGE DECK AND CAST IRON BRIDGE BEAMS AND INFILL

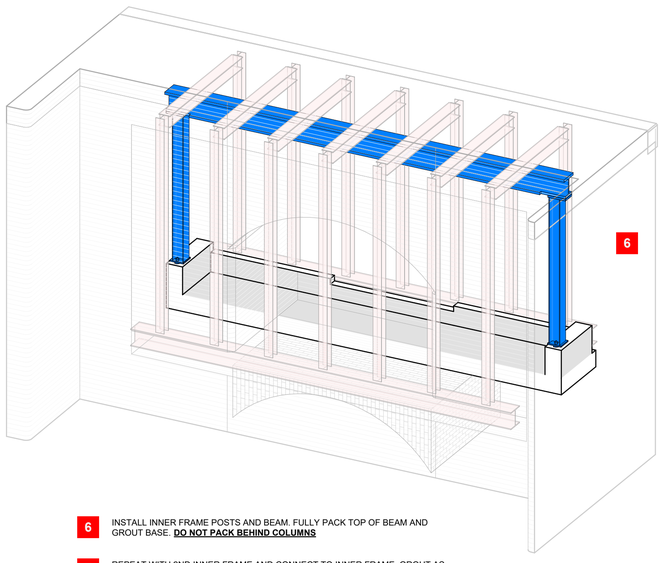
2 CORE THROUGH CIRCA 2.5m WALL AT CIRCA 900 c/c FOR NEEDLES

3 INSTALL STEEL NEEDLES, PROP UP POSTS ADJACENT SPREADER BEAM AND BASE AND FULLY PACK TO MINIMSE MOVEMENT



4 CAREFULY CUT OUT EXISTING ABUTMENT TO HALF WALL DEPTH

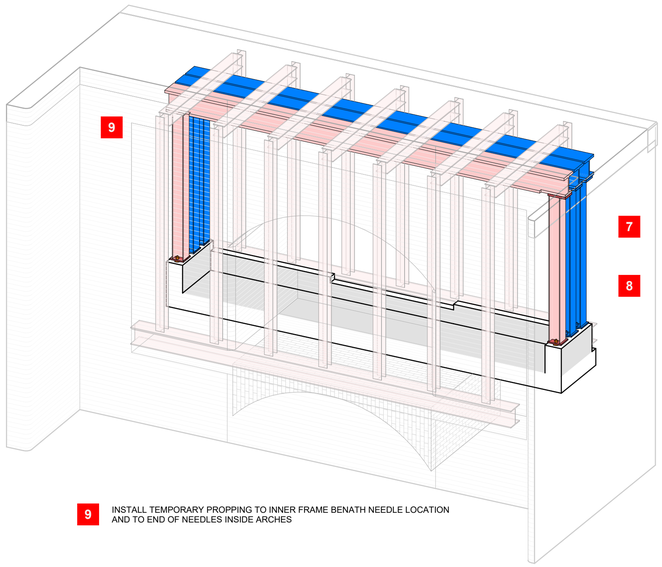
5 CAST RC SPREADER BASE AND HOLDING DOWN BOLTS



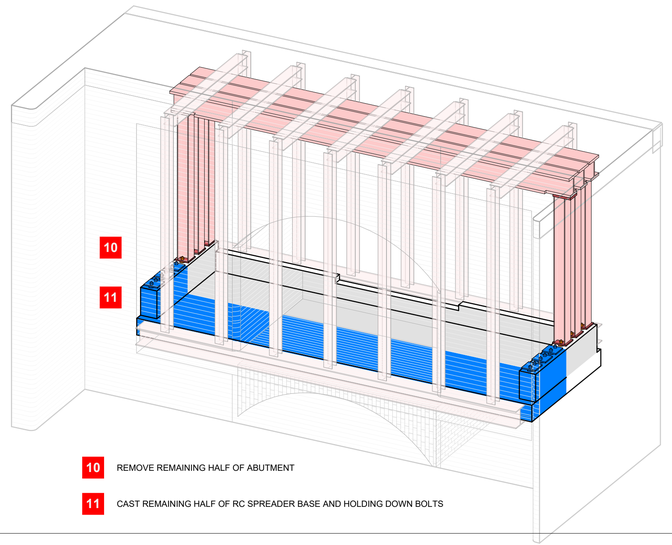
6 INSTALL INNER FRAME POSTS AND BEAM. FULLY PACK TOP OF BEAM AND GROUT BASE. **DO NOT PACK BEHIND COLUMNS**

7 REPEAT WITH 2ND INNER FRAME AND CONNECT TO INNER FRAME. GROUT AS STAGE 6

8 INSTALL OUTER FRAME AS STAGE 6 CONNECT TO 2ND INNER FRAME

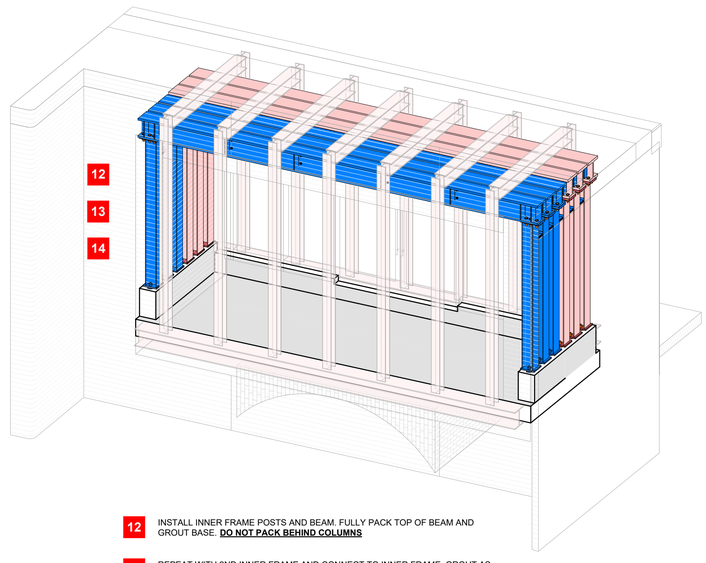


9 INSTALL TEMPORARY PROPPING TO INNER FRAME BENATH NEEDLE LOCATION AND TO END OF NEEDLES INSIDE ARCHES



10 REMOVE REMAINING HALF OF ABUTMENT

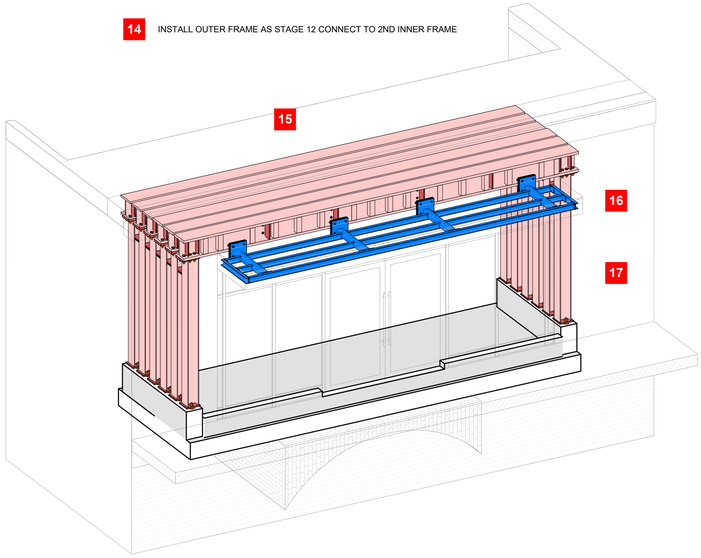
11 CAST REMAINING HALF OF RC SPREADER BASE AND HOLDING DOWN BOLTS



12 INSTALL INNER FRAME POSTS AND BEAM. FULLY PACK TOP OF BEAM AND GROUT BASE. **DO NOT PACK BEHIND COLUMNS**

13 REPEAT WITH 2ND INNER FRAME AND CONNECT TO INNER FRAME. GROUT AS STAGE 12

14 INSTALL OUTER FRAME AS STAGE 12 CONNECT TO 2ND INNER FRAME



15 ONCE ALL PACKING HAS GAINED FULL STRENGTH REMOVE ALL PROPPING

16 INSTALL CANOPY STEELWORK

17 FULLY GROUT BACK FACE OF ALL COLUMNS

NOTES:

1. REFER TO DRAWING V2B-REN-AA-XX-DR-S-00010 FOR GENERAL NOTES.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE PRINCIPAL CONTRACTORS TEMPORARY WORKS BRIEF AND ASSOCIATED DOCUMENTATION.
3. THIS DRAWING PROVIDES AN OUTLINE CONSTRUCTION METHODOLOGY TO FORM THE PERMANENT FOUNDATION WORKS. THE PRINCIPAL CONTRACTOR, RELEVANT SUB-CONTRACTORS AND ASSOCIATED TEMPORARY WORKS DESIGNERS, ARE TO REVIEW THE OUTLINE CONSTRUCTION METHODOLOGY AND SATISFY THEMSELVES THAT THE WORKS ARE BUILDABLE AND CAN BE UNDERTAKEN IN A SAFE MANNER, PRIOR TO COMMENCING THE WORK. THE SUB-CONTRACTORS AND TEMPORARY WORKS DESIGNER ARE TO NOTIFY THE PRINCIPAL CONTRACTORS TEMPORARY WORKS CO-ORDINATOR IF AMENDMENTS ARE REQUIRED TO SUIT SITE CONSTRAINTS OR INSTALLATION FOR APPROVAL AND PROR TO INCORPORATION INTO THEIR DESIGN AND INSTALLATION WORKS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MONITORING OF THE TEMPORARY WORKS AND UNDERTAKING THEIR OWN INSPECTIONS. ALL WORKS ARE ALSO TO BE REVIEWED, MANAGED AND INSPECTED BY THE PRINCIPLES CONTRACTORS TEMPORARY WORKS CO-ORDINATER. THE INSPECTION REGIME IS TO BE IN ACCORDANCE WITH THE PRINCIPAL CONTRACTORS TEMPORARY WORKS CO-ORDINATORS REQUIREMENTS.
5. THE PRINCIPAL CONTRACTORS TEMPORARY WORKS CO-ORDINATOR IS TO SATISFY THEMSELVES THAT CONTRACTORS UNDERTAKING THE WORKS AND TEMPORARY WORKS DESIGNERS ARE SUITABLE QUALIFIED AND EXPERIENCED IN UNDERTAKING WORKS OF THE NATURE SHOWN.
6. ALL TEMPORARY WORKS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF BS5975.
7. THE CATEGORY OF CHECKING FOR EACH TEMPORARY WORKS ITEMS IS TO BE AGREED BETWEEN THE PRINCIPAL CONTRACTORS TEMPORARY WORKS CO-ORDINATOR AND TEMPORARY WORKS DESIGNER PRIOR TO UNDERTAKING THE DESIGN.
8. THE LOADS PROVIDED ON THE OUTLINE CONSTRUCTION METHODOLOGY DRAWING ARE APPROXIMATE ONLY AND FOR OUTLINE COSTING PURPOSES ONLY. DETAILED LOADINGS ARE TO BE DERIVED BY THE TEMPORARY WORKS DESIGNER AS PART OF THEIR TECHNICAL DESIGN FOR THE TEMPORARY WORKS ITEMS.

MAXIMUM PERMITTED HORIZONTAL MOVEMENT OF VIADUCT
TO MAINTAIN STABILITY OF THE GRADE II VIADUCT MASONRY ARCHES AND PIERS, AND TO LIMIT THE RISK OF DAMAGE, THE TEMPORARY PROPPING SYSTEM IS TO BE DESIGNED BY THE TEMPORARY WORKS DESIGNER, AND MONITORED ON SITE BY THE CONTRACTOR, TO ENSURE THAT HORIZONTAL MOVEMENTS ARE LIMITED TO **5mm** OR LESS DURING THE WORKS.

PROTECTION MEASURES TO GRADE II LISTED VIADUCT & APPROVALS
THE CONTRACTOR IS TO PROVIDE PROTECTION MEASURES TO THE VIADUCT MASONRY STRUCTURE IN THE TEMPOARY CASE.
ALL TEMPORARY WORKS ARE TO BE DESIGNED TO MINIMISE FIXING TO THE EXISTING LISTED BUILDING.
WHERE INTRUSIVE CONNECTIONS OR ALTERATIONS ARE REQUIRED THESE ARE TO BE AGREED IN WRITING BY THE LISTED BUILDING OFFICER. THE PRINCIPAL CONTRACTORS TEMPORARY WORKS CO-ORDINATOR IS TO ALLOW SUFFICIENT TIME WITHIN THEIR PROGRAMME FOR OBTAINING LISTED BUILDING CONSENT IF REQUIRED.

SUPPORTING INFORMATION
THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE FOLLOWING INFORMATION:
- SURVEY SYSTEM UTILITIY SCAN
- ENWL STATUTORY SERVICES PLANS
- UXO RISK ASSESSMENT
- GEOTECHNICAL REPORT
- STRUCTURAL ENGINEERS PILE AND FOUNDATIONS DRAWINGS SHOWING THE PERMANENT WORKS

INFORMATION TO BE CONFIRMED BY CONTRACTOR
IT IS RECOMMENDED THAT PRIOR TO UNDERTAKING THE TECHNCIAL DESIGN OF THE TEMPORARY WORKS THE FOLLOWING INFORMATION IS CONFIRMED:
- DEPTH OF EXISTING MASS CONCRETE PIER FOUNDATIONS
- DETAILED CCTV DRAINAGE SURVEY OF SERVICE YARD DRAINAGE
- DETAILED CCTV DRAINAGE SURVEY OF GROUND FLOOR DRAINAGE TO ENWL EASEMENT AREA
- EXISTING ARCH MATERIAL PROPERTIES AND CONSTRUCTION

THE ABOVE OUTLINE METHODOLOGY IS TO DEVELOPED BY THE PRINCPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS TO SUIT THEIR PREFERRED DETAILED METHOD OF UNDERTAKING THE WORKS.

THE CONTRACTOR IS TO SATISFY THEMSELVES THAT THE OUTLINE METHODOLOGY IS ACCEPTABLE AND TO NOTIFY THE TEMPORARY WORK CO-ORDINATOR OF ANY AMENDMENTS REQUIRED TO SUIT SITE CONSTRAINTS OR INSTALLATION.

Rev:	Description:	Date:	By:	Chkd:
P01	RIBA STAGE 4 ISSUE	31.07.25	AMi	EM

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77 Dale Street
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Project:
VIADUX 2B,
MANCHESTER

Drawing Title:
GBS ABUTMENT INDICATIVE CONSTRUCTION SEQUENCING

Status:
STAGE 4

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	JUN 25	AMi	-	KAG

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