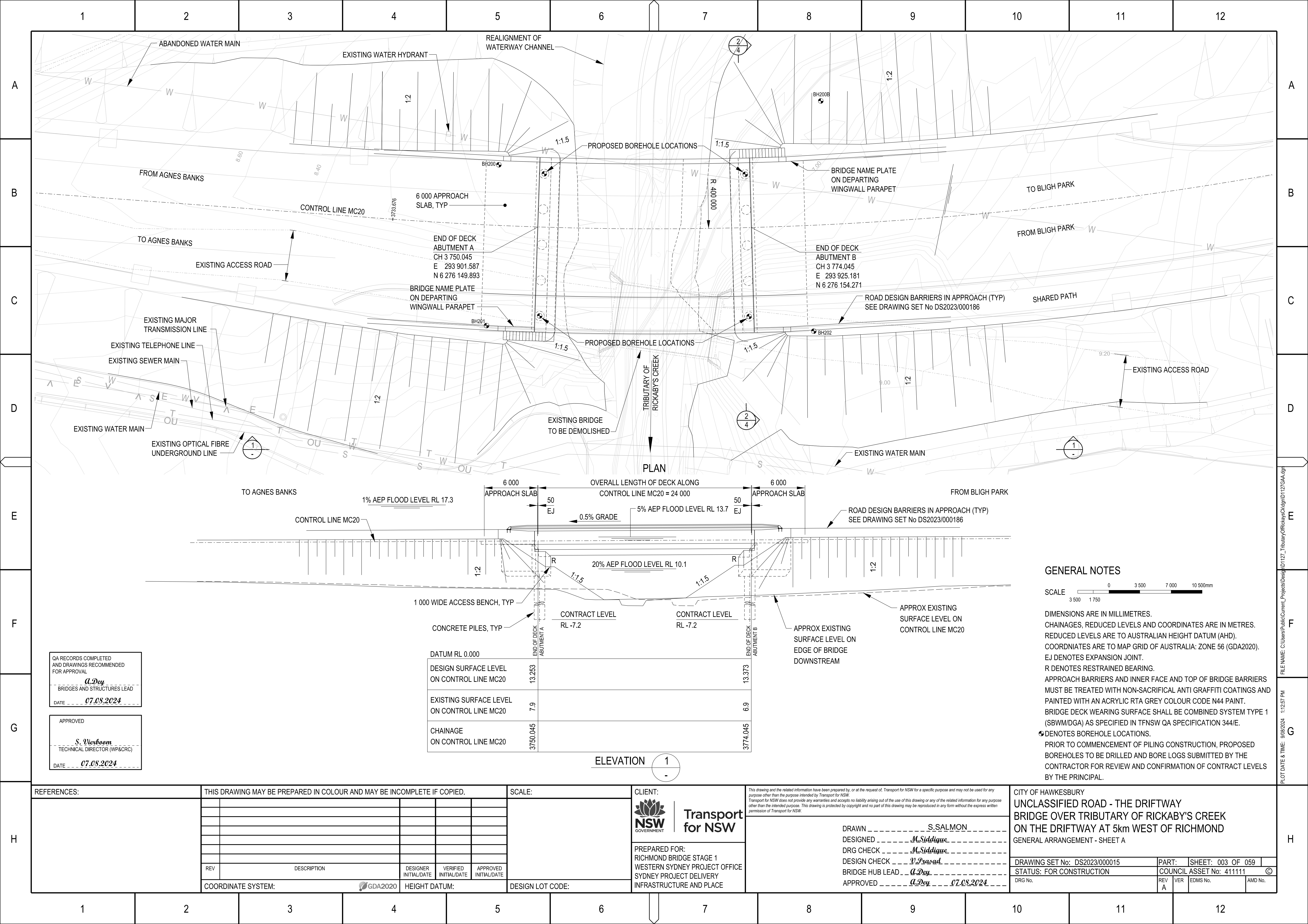
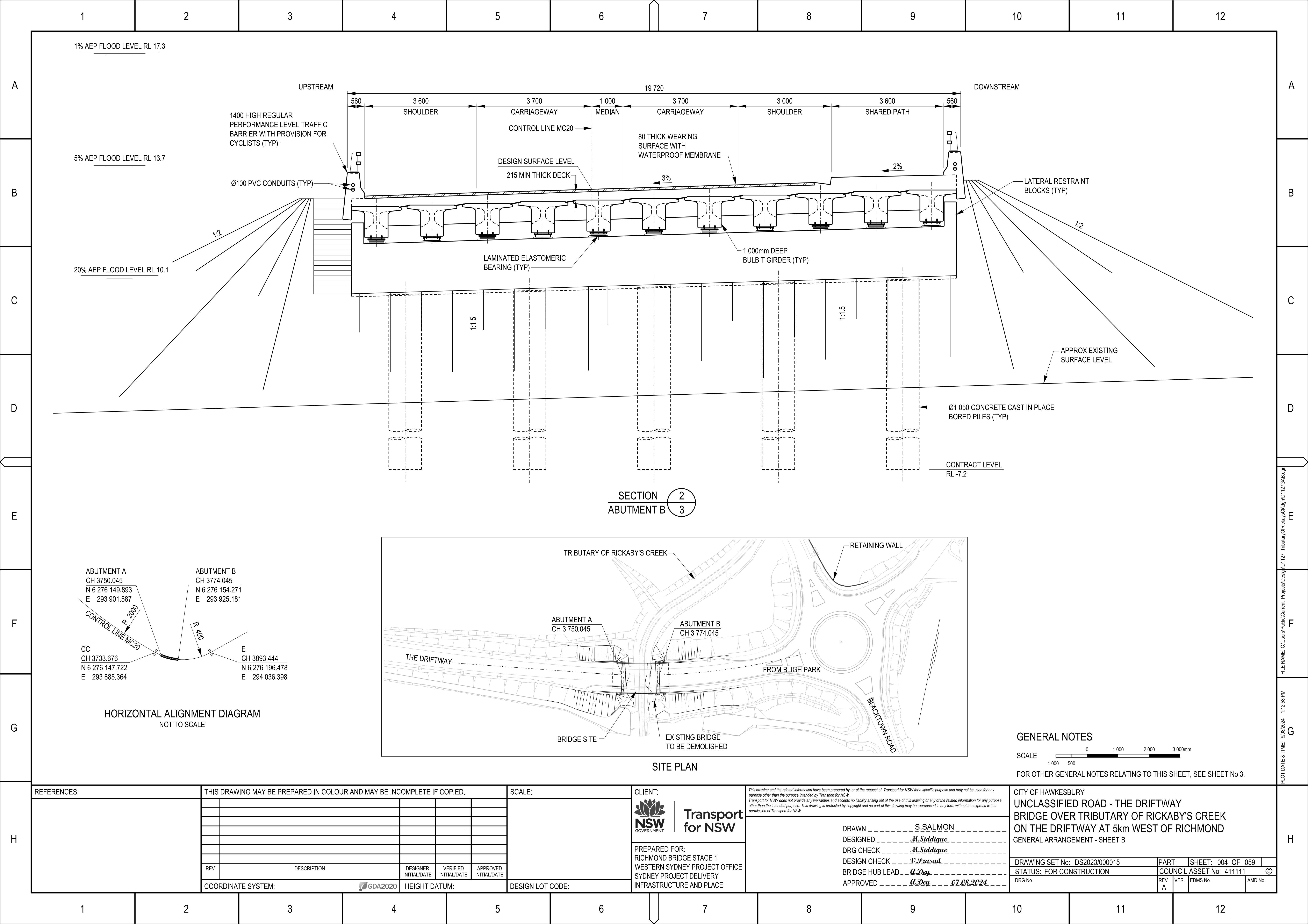
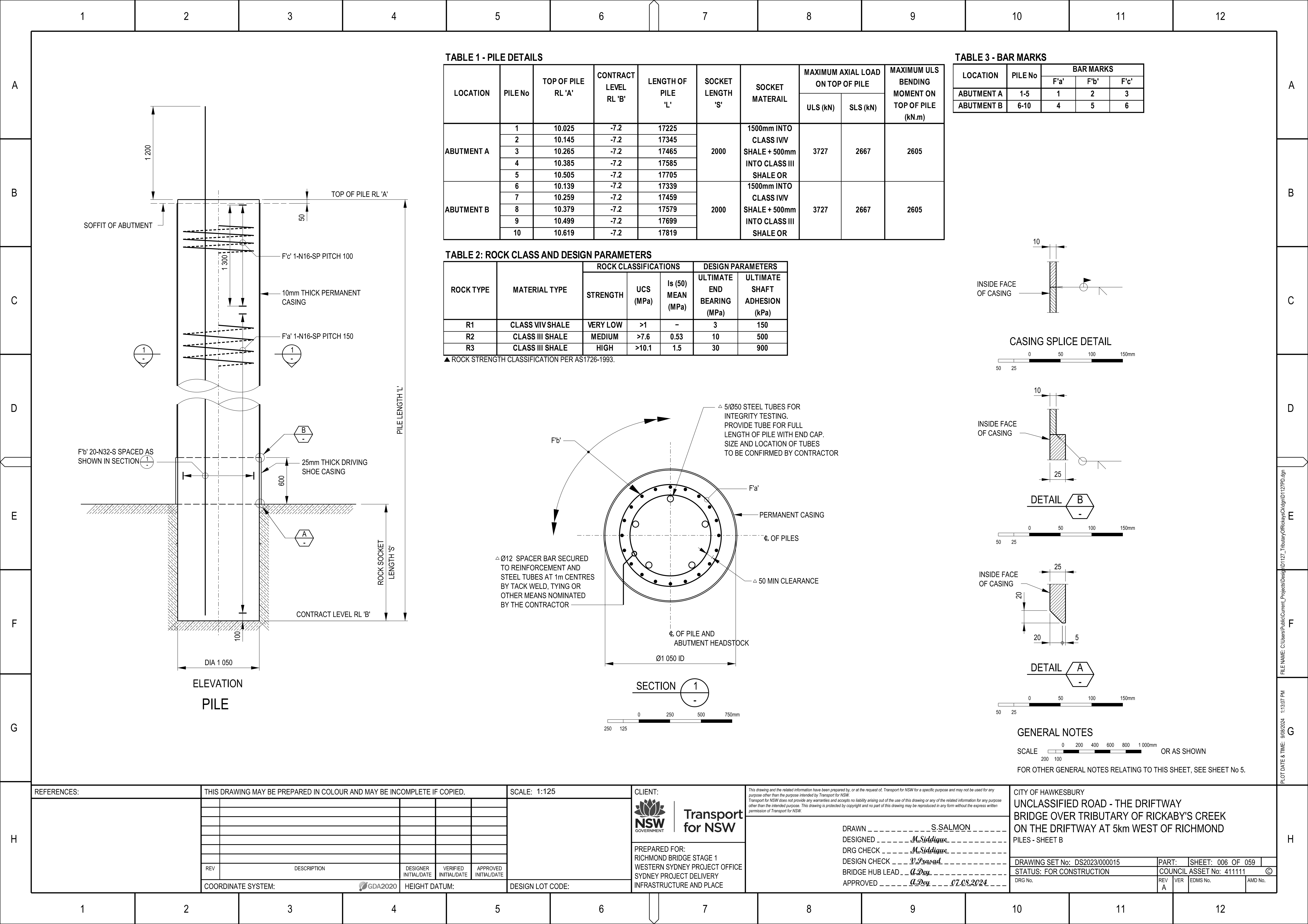
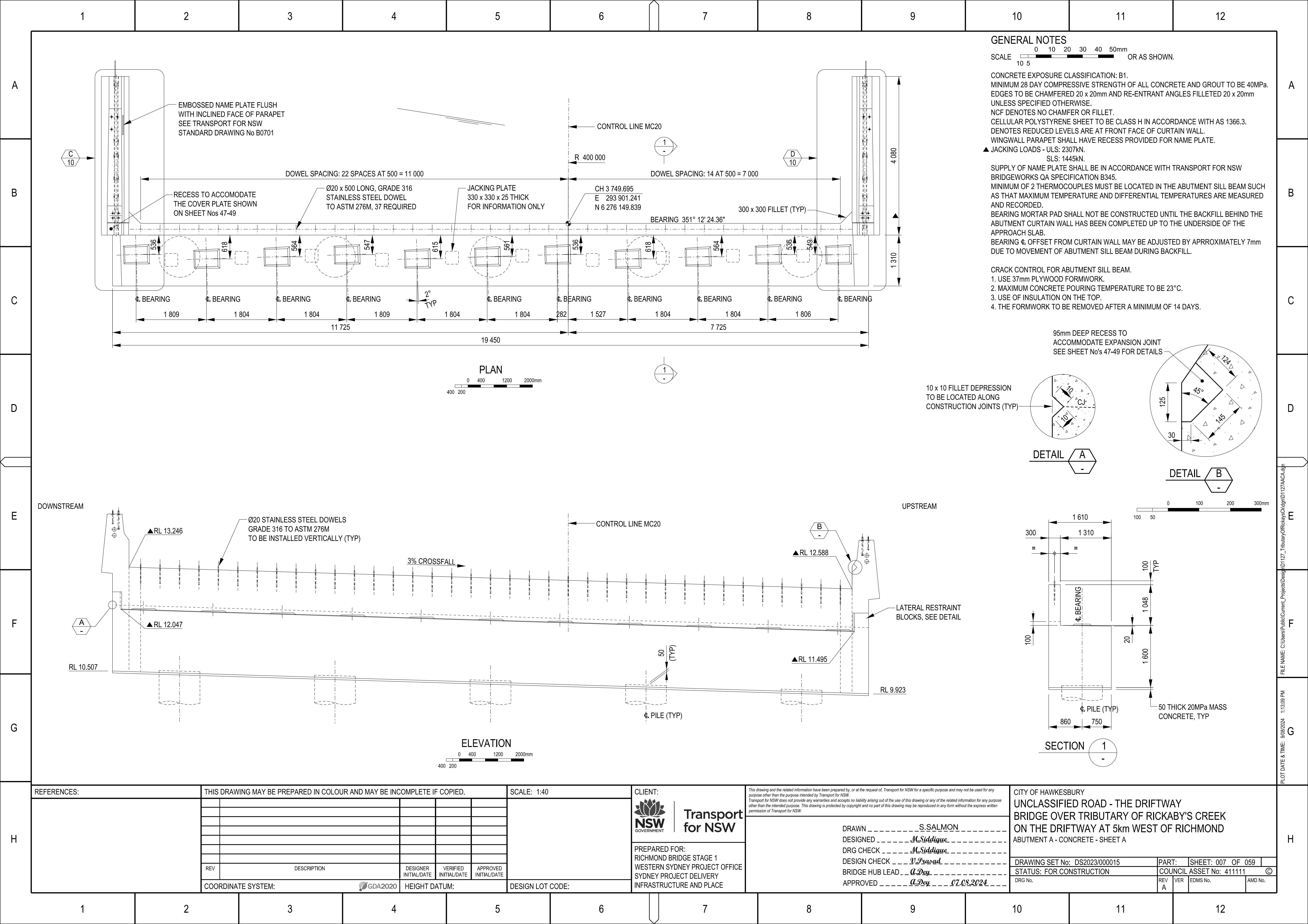


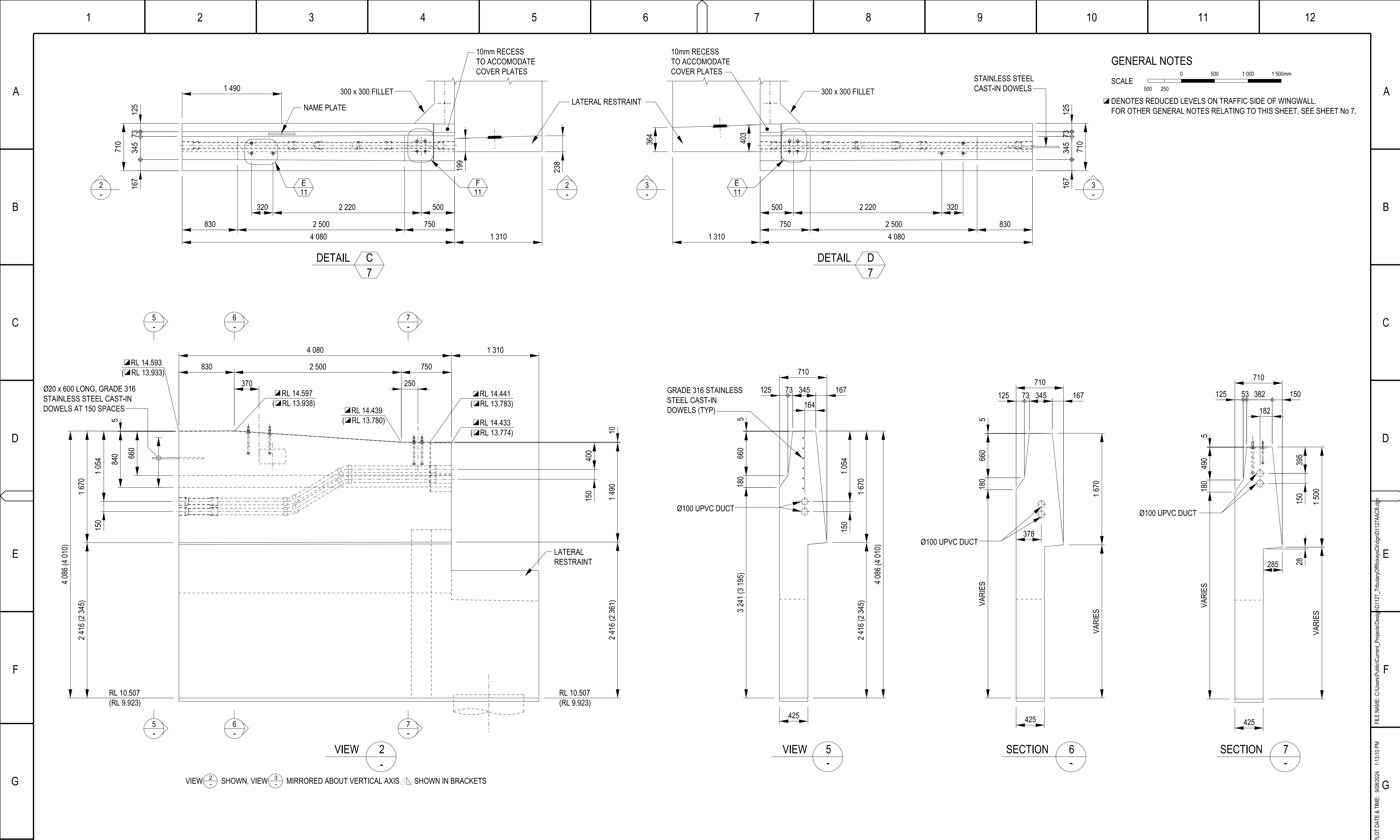
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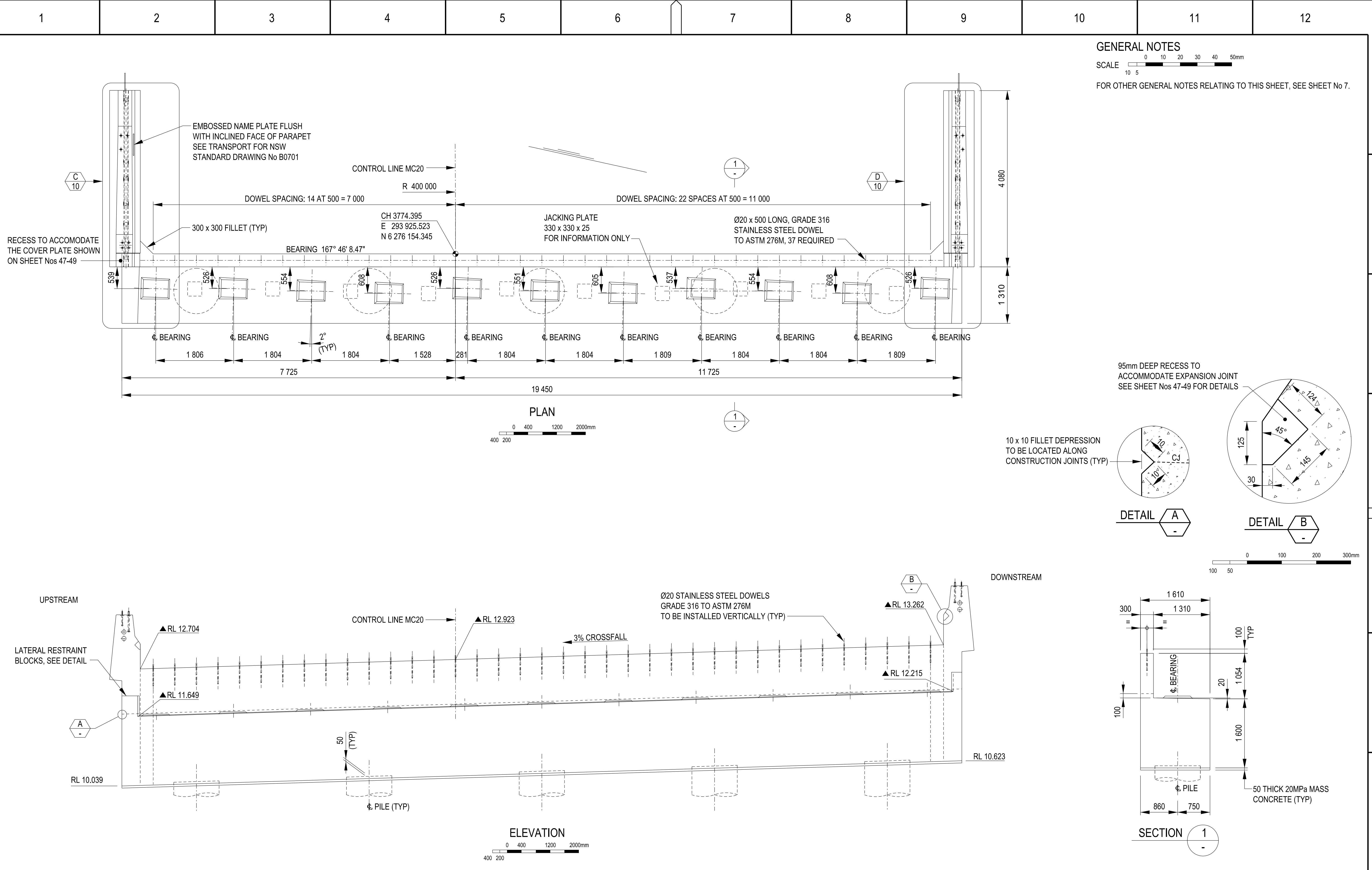






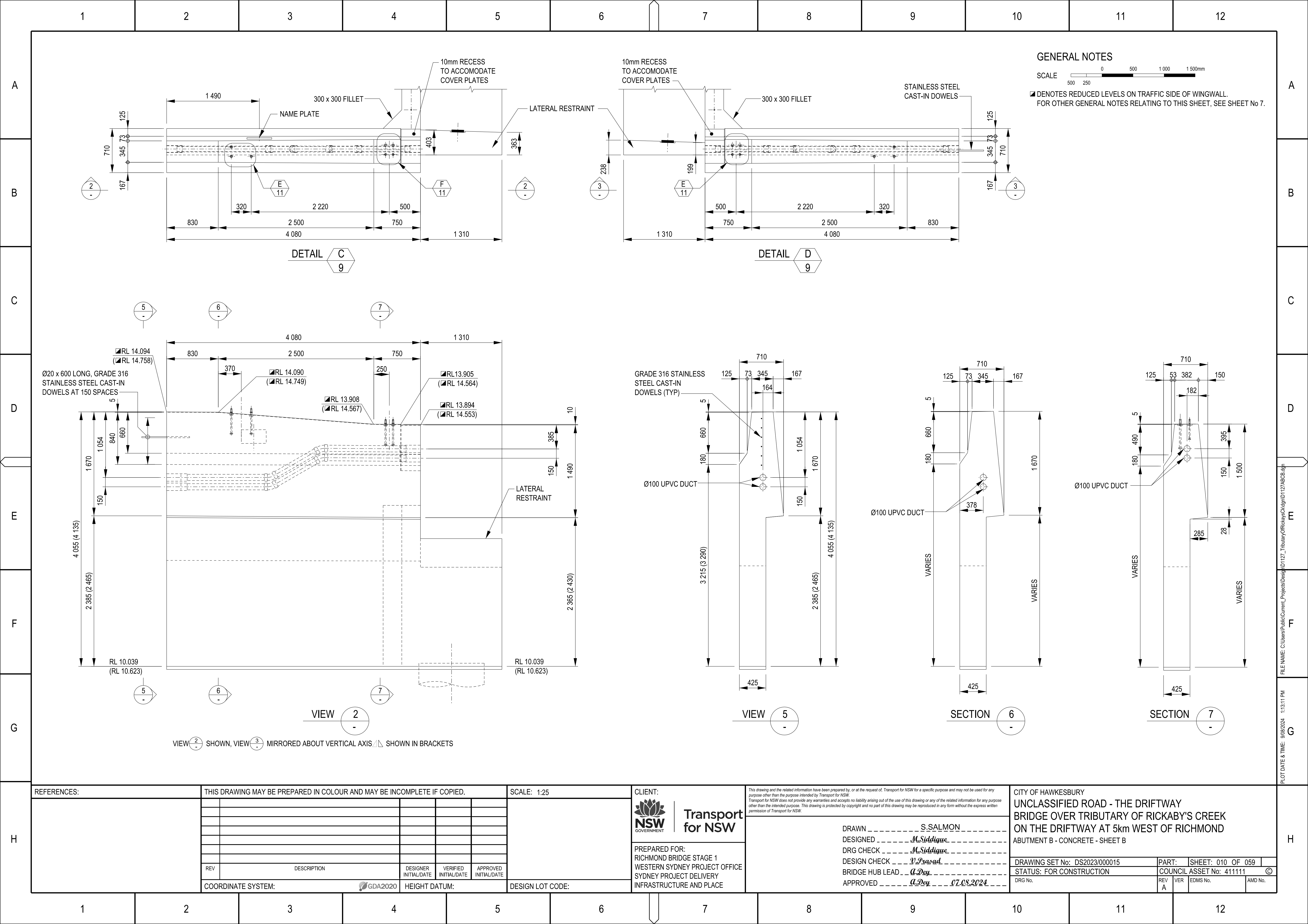


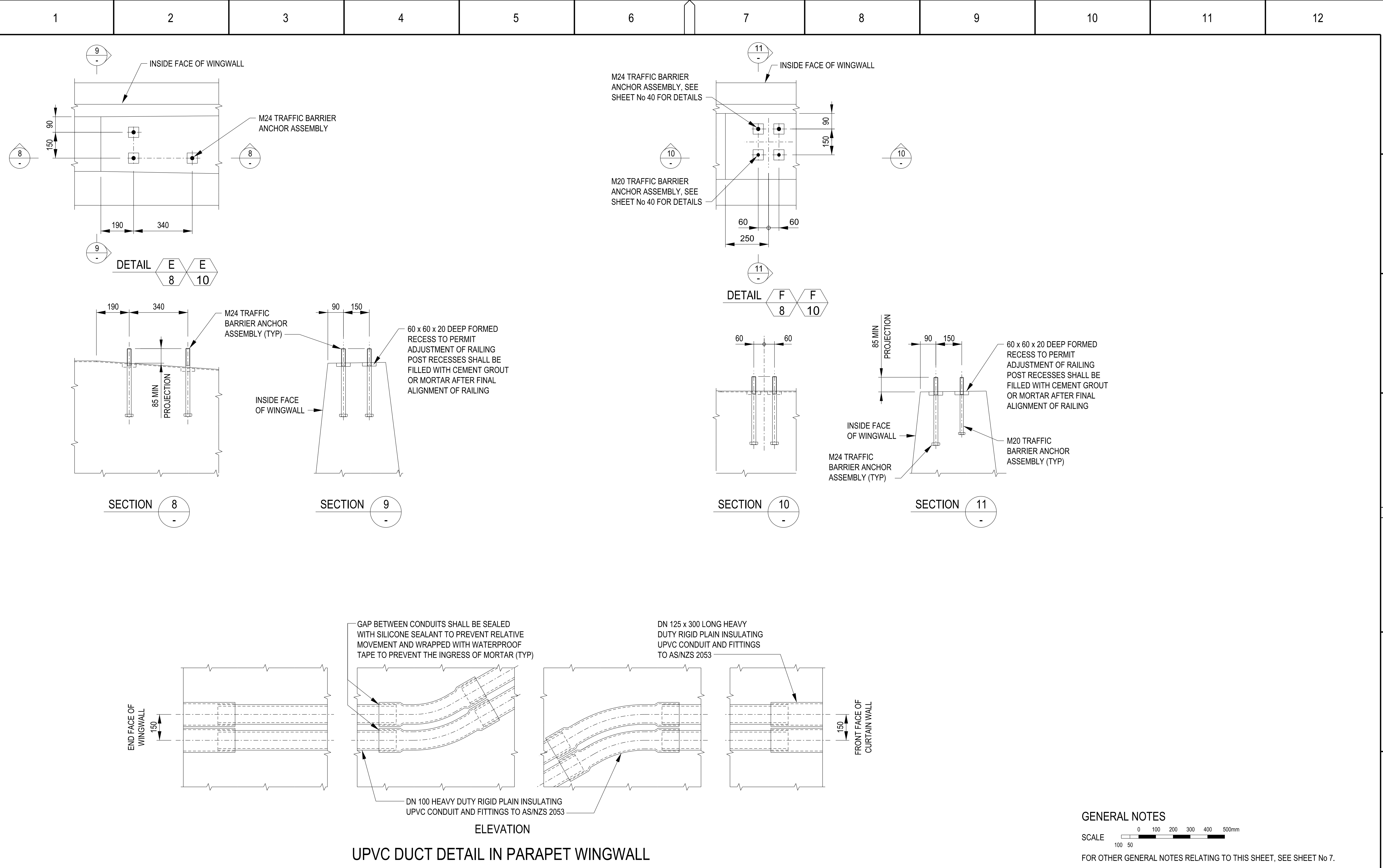




H	REFERENCES:	THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.					SCALE: 1:25	<div> Transport for NSW</div> <div>PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE</div>	<div><small>This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW.</small></div> <div>DRAWN _____ S.SALMON _____ DESIGNED _____ <u>M.Siddique</u> _____ DRG CHECK _____ <u>M.Siddique</u> _____ DESIGN CHECK _____ <u>V.Prasad</u> _____ BRIDGE HUB LEAD _____ <u>A.Dey</u> _____ APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u> _____</div>	CITY OF HAWKESBURY UNCLASSIFIED ROAD - THE DRIFTWAY BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK ON THE DRIFTWAY AT 5km WEST OF RICHMOND ABUTMENT A - CONCRETE - SHEET B				H
	REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE									
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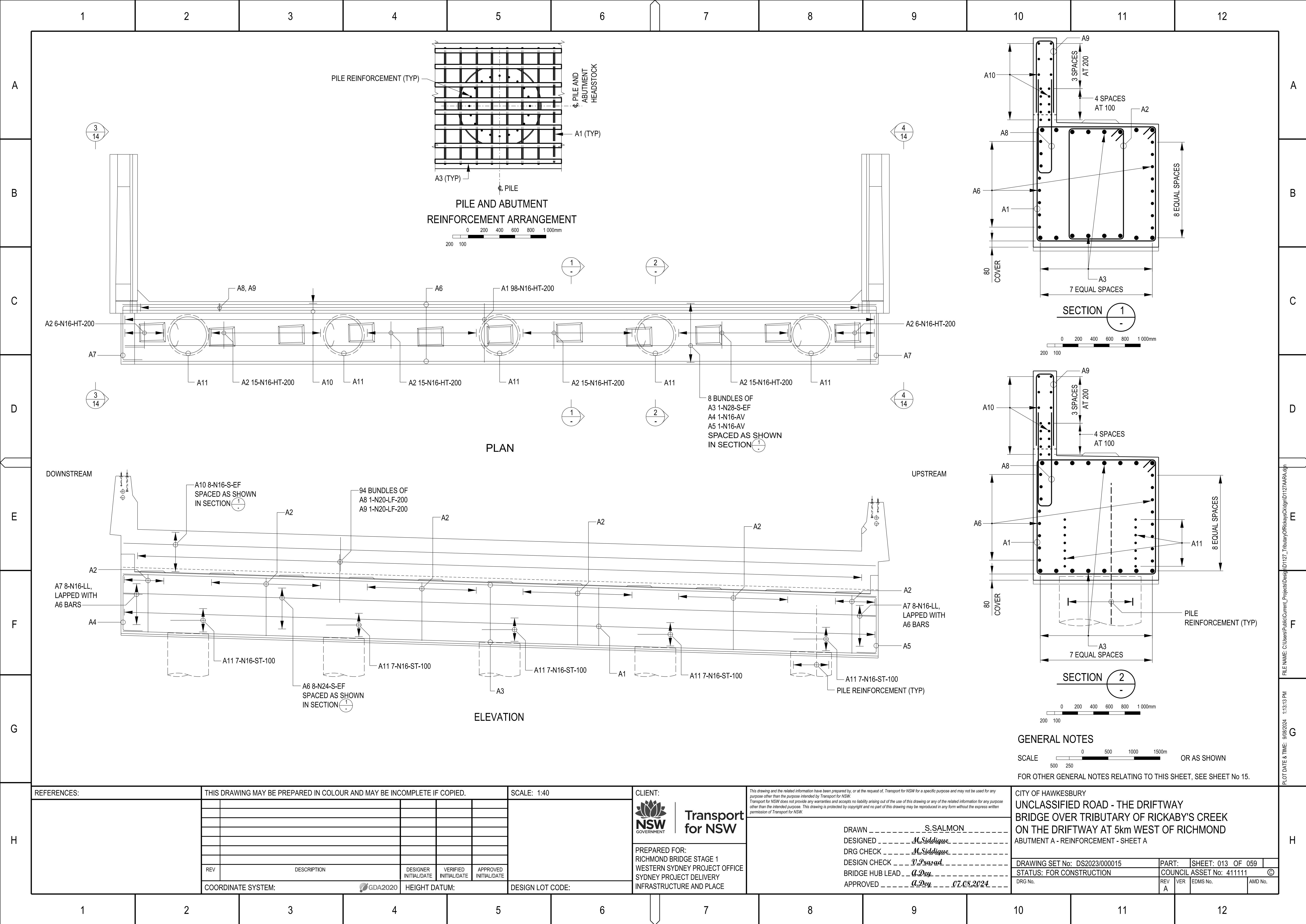
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						DRAWN _____ <u>S.SALMON</u> _____ DESIGNED _____ <u>M.Siddique</u> _____ DRG CHECK _____ <u>M.Siddique</u> _____ DESIGN CHECK _____ <u>V.Prasad</u> _____ BRIDGE HUB LEAD _____ <u>A.Dey</u> _____ APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u> _____			
							PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE		
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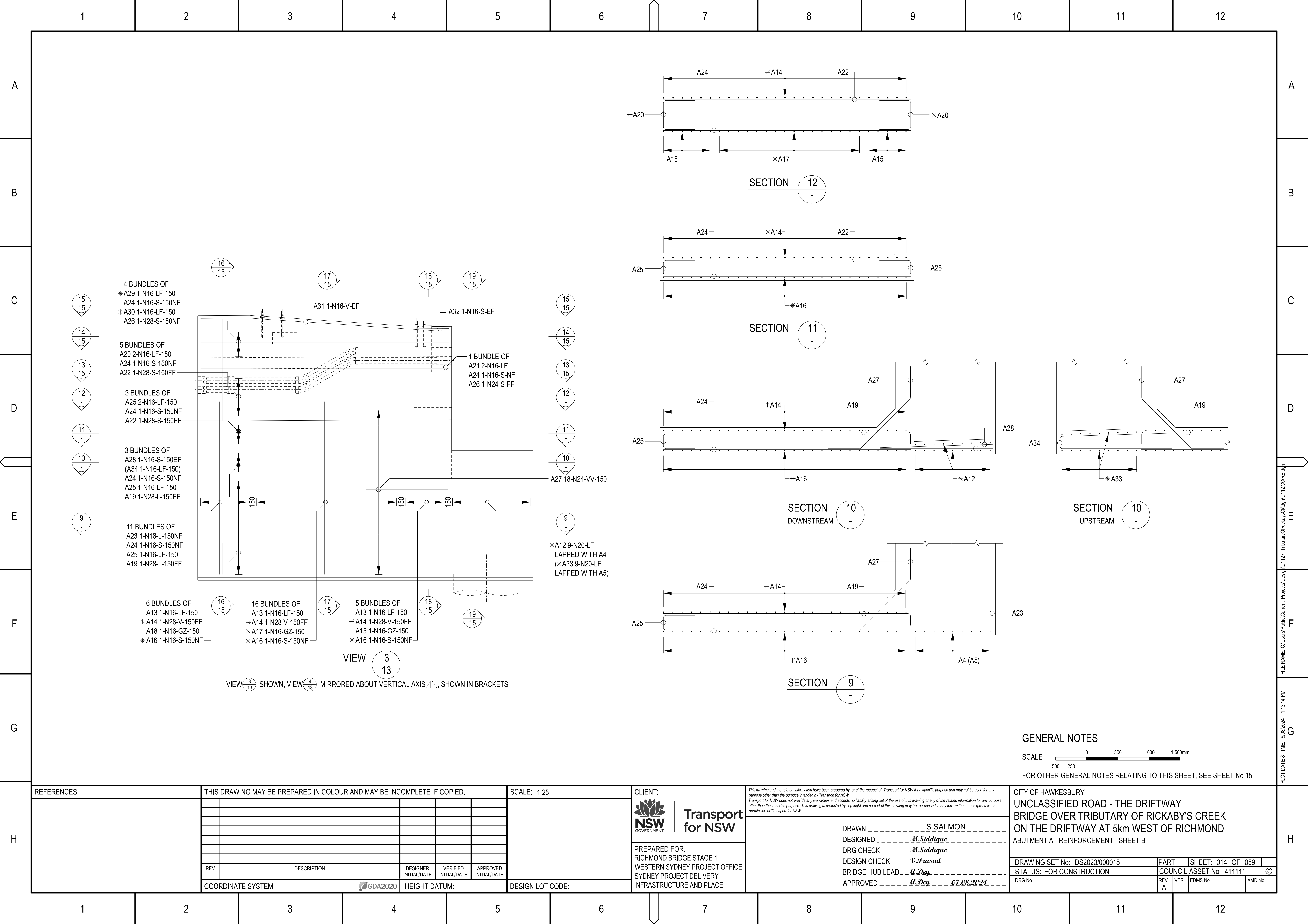


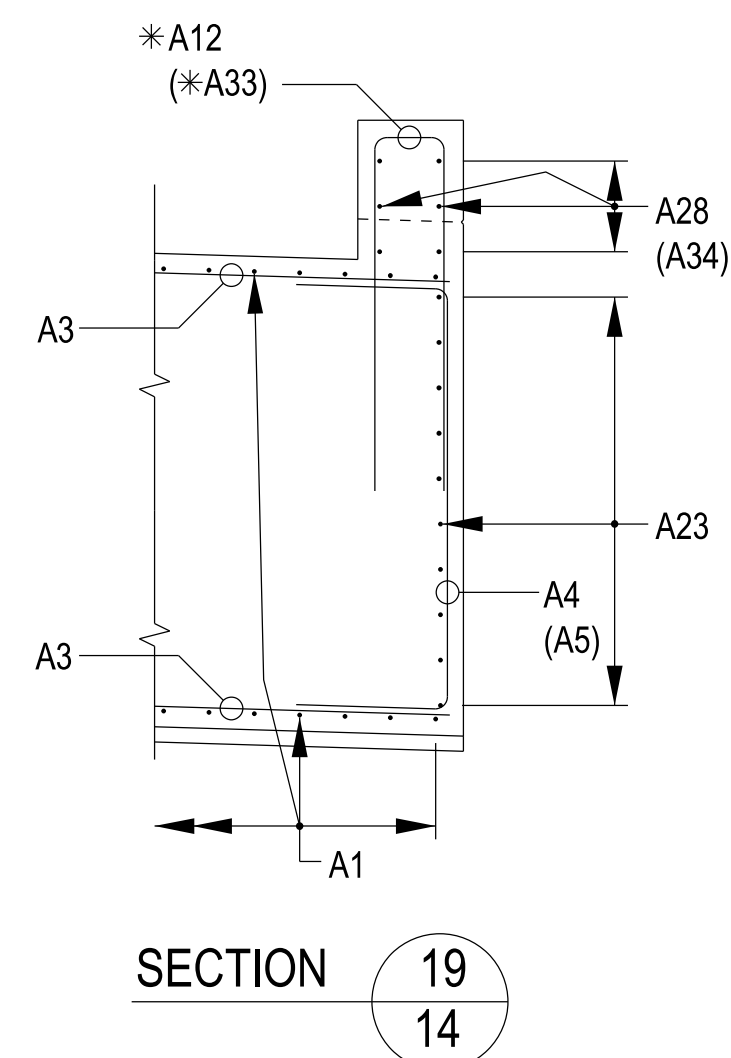


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COORDINATE SYSTEM: 		HEIGHT DATUM:		DESIGN LOT CODE:								


DRAWING SET No: DS2023/000015		PART:	SHEET: 011 OF 059		
STATUS: FOR CONSTRUCTION		COUNCIL ASSET No: 411111		©	
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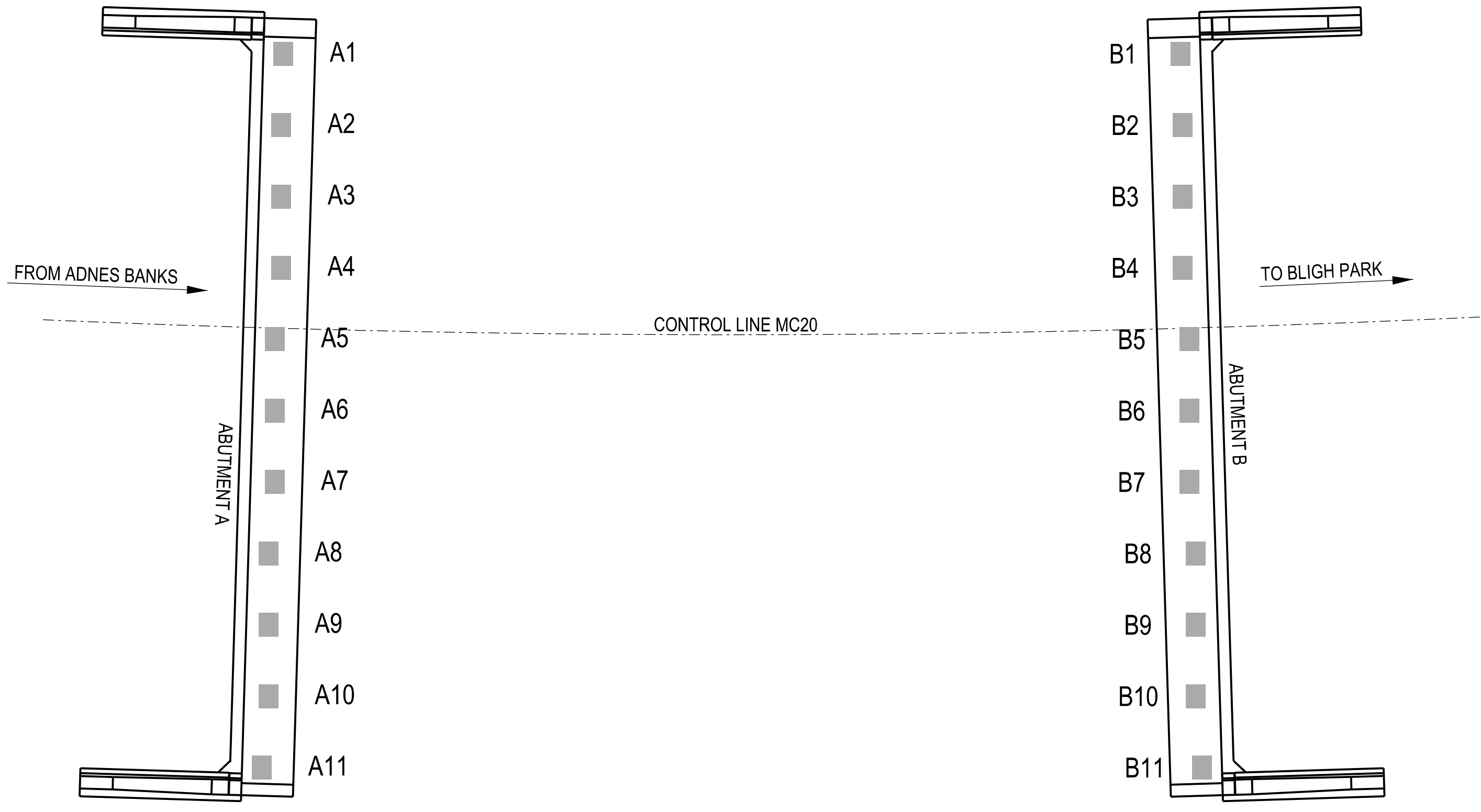




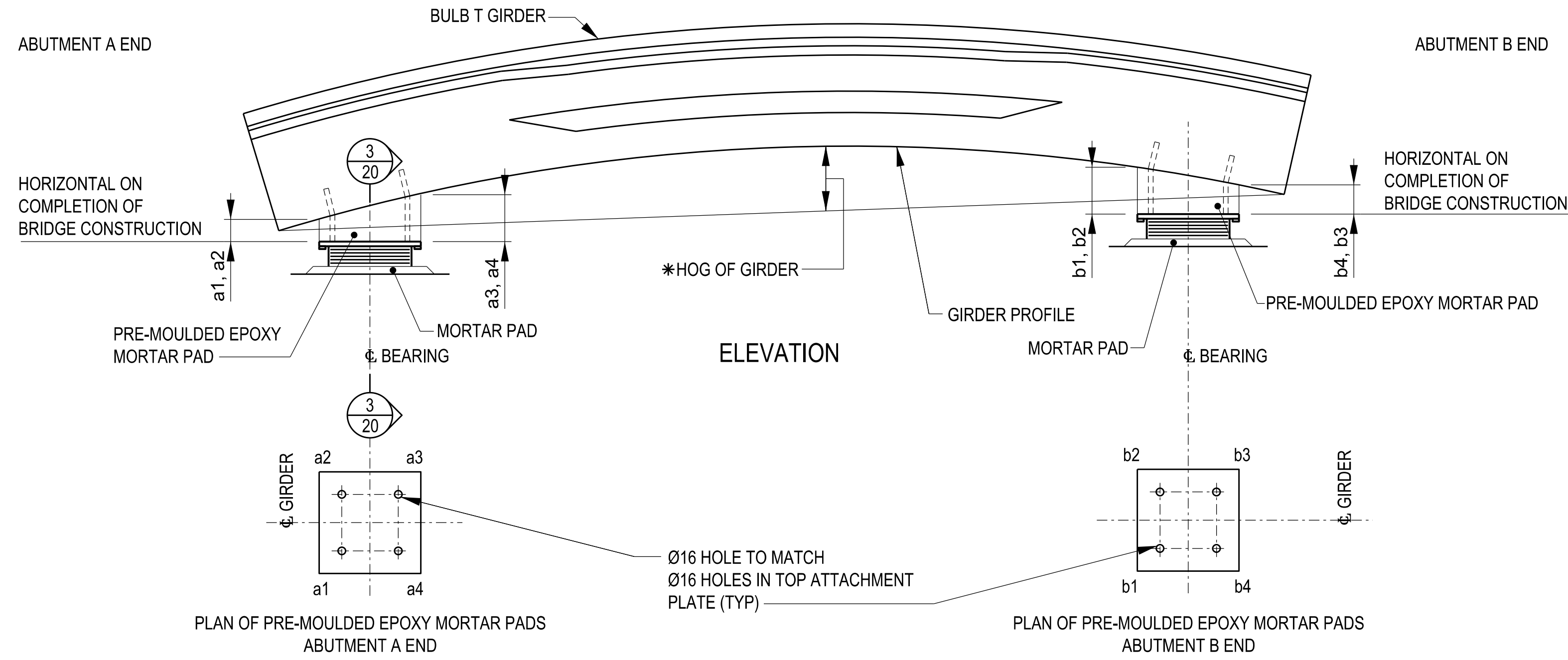
REINFORCEMENT MAY BE DISPLACED SLIGHTLY WHERE NECESSARY TO CLEAR DOWELS, ANCHOR BOLTS, PILE REINFORCEMENT, FORMED HOLES AND RECESSES.

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							 Transport for NSW	DRAWN _____ S.SALMON DESIGNED _____ M.Siddique DRG CHECK _____ M.Siddique DESIGN CHECK _____ P.Prasad BRIDGE HUB LEAD _____ A.Dey APPROVED _____ A.Dey _____ 07.08.2024							
REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE		PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE					DRAWING SET No: DS2023/000015 PART: SHEET: 015 OF 059 <div></div> STATUS: FOR CONSTRUCTION COUNCIL ASSET No: 411111 <div></div> DRG No. REV A VER EDMS No. AMD No.				
COORDINATE SYSTEM:		GDA2020		HEIGHT DATUM:		DESIGN LOT CODE:									

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PLAN
LAYOUT
NOT TO SCALE



BULB T GIRDER PRE-MOULDED MORTAR PADS
NOT TO SCALE
SEE TABLE 1 FOR VALUES OF 'a1' - 'b4'

TABLE 1									
BEARING No	MEASURED HOG (mm)	EPOXY PAD THIKNESS (mm)							
		a1	a2	a3	a4	b1	b2	b3	b4
A1-B1	30-40	33	33	37	37	34	34	36	36
	50-65	32	32	38	38	35	35	35	35
A2-A4, B2-B4	30-40	33	33	37	37	34	34	36	36
	50-65	32	32	38	38	35	35	35	35
A5-A7, B5-B7	30-40	33	33	37	37	34	34	36	36
	50-65	32	32	38	38	35	35	35	35
A8-A10, B8-B10	30-40	33	33	37	37	34	34	36	36
	50-65	32	32	38	38	35	35	35	35
A11-B11	30-40	33	33	37	37	34	34	36	36
	50-65	32	32	38	38	35	35	35	35

GENERAL NOTES
SCALES AS SHOWN
MINIMUM 28 DAY COMPRESSIVE STRENGTH OF EPOXY MORTAR AND CEMENT MORTAR MUST BE 40 MPa.
THE MIX RATIO OF EPOXY AND SAND FOR THE EPOXY MORTAR BLOCK MUST BE IN ACCORDANCE WITH THE EPOXY MANUFACTURER'S SPECIFICATION.
THE TYPE OF SAND USED IN THE MIX MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.
EPOXY MORTAR BLOCKS MUST BE CONSTRUCTED NOT MORE THAN 2 WEEKS PRIOR TO THE ERECTION OF THE GIRDERS.
THE EPOXY MORTAR BLOCK MUST BE PRE-MOULDED WITH THE ATTACHMENT PLATES TO THE DIMENSIONS GIVEN IN TABLE 1.
STEEL PLATE SHALL BE STAINLESS STEEL GRADE 316 TO ASTM A240M.
THE ATTACHMENT PLATE WITH EPOXY MORTAR BLOCK SHALL BE ATTACHED TO THE SOFFIT OF THE GIRDER USING A SUITABLE EPOXY RESIN.
EPOXY MORTAR BLOCKS TO BE TAGGED APPROPRIATELY.
THE MINIMUM THICKNESS OF EPOXY MORTAR BLOCKS IS 10mm.
BOLTING CATEGORY FOR PRODUCT GRADE C BOLTS SHALL BE 4.6/S IN ACCORDANCE WITH AS 5100.6.
BOLTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AS 1214.
A SINGLE MACHINED STEEL PLATE MAY BE USED IN LIEU OF THE PRE-MOULDED EPOXY/STEEL PLATE SYSTEM.
* HOG OF THE GIRDER SHALL BE MEASURED JUST PRIOR TO THE CONSTRUCTION OF THE PRE MOULDED EPOXY MORTAR BLOCKS. IF THE MEASURED HOG IS OUTSIDE THE RANGE OF 30-65mm, VALUES OF "a" AND "b" SHALL BE ADJUSTED BY THE PRINCIPAL.
THE TAPER DIMENSIONS ACCOUNT FOR THE DEFLECTION DUE TO CAST-IN PLACE DECK.

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								DESIGNED	M.Siddique								
								DRG CHECK	M.Siddique								
								DESIGN CHECK	V.Prasad								
								BRIDGE HUB LEAD	A.Dey								
								APPROVED	A.Dey	07.08.2024							
REV	DESCRIPTION					DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE			DRAWING SET No: DS2023/000015		PART:	SHEET: 019 OF 059			
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										DRG No.		REV A	VER	EDMS No.	AMD No.		

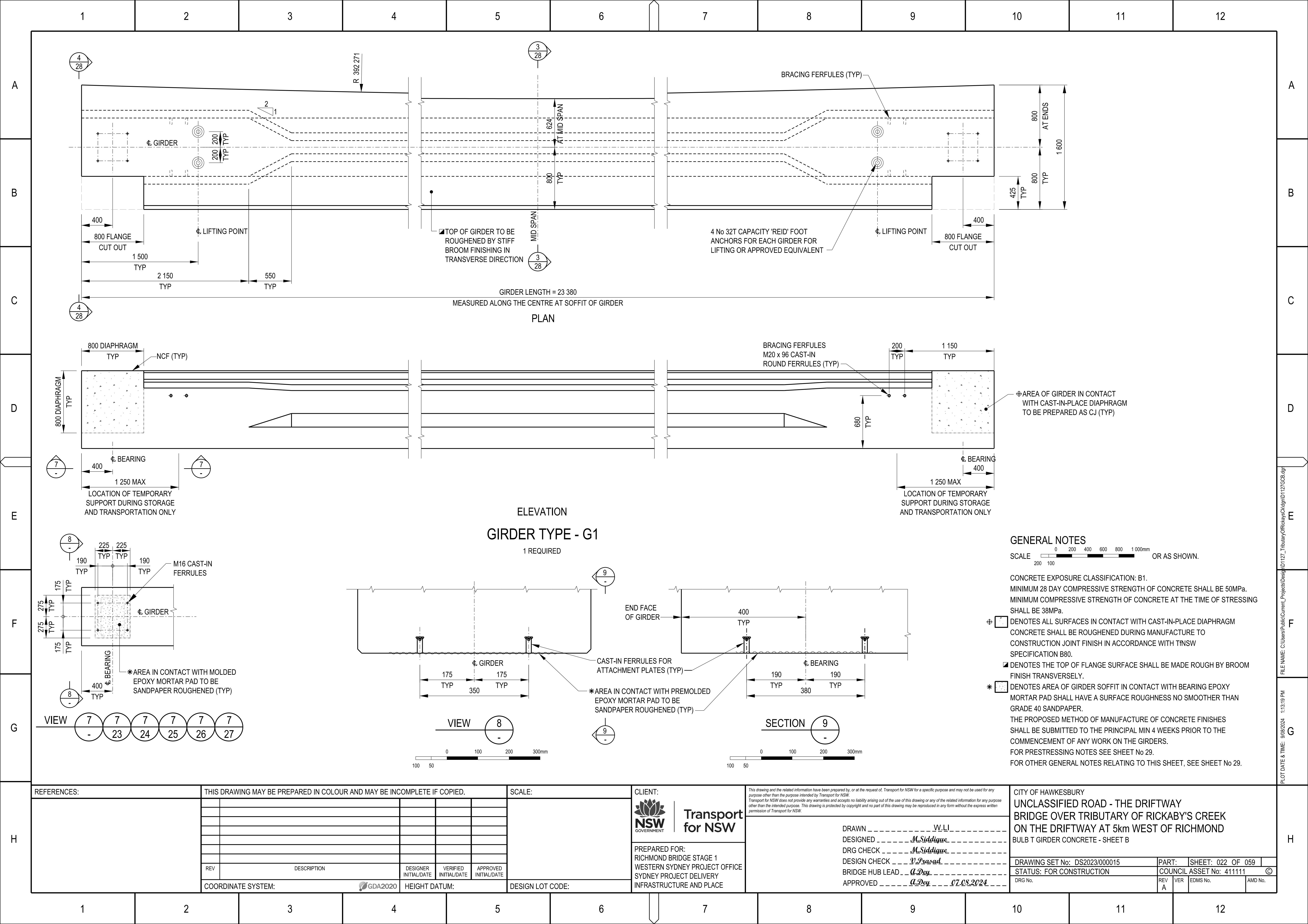
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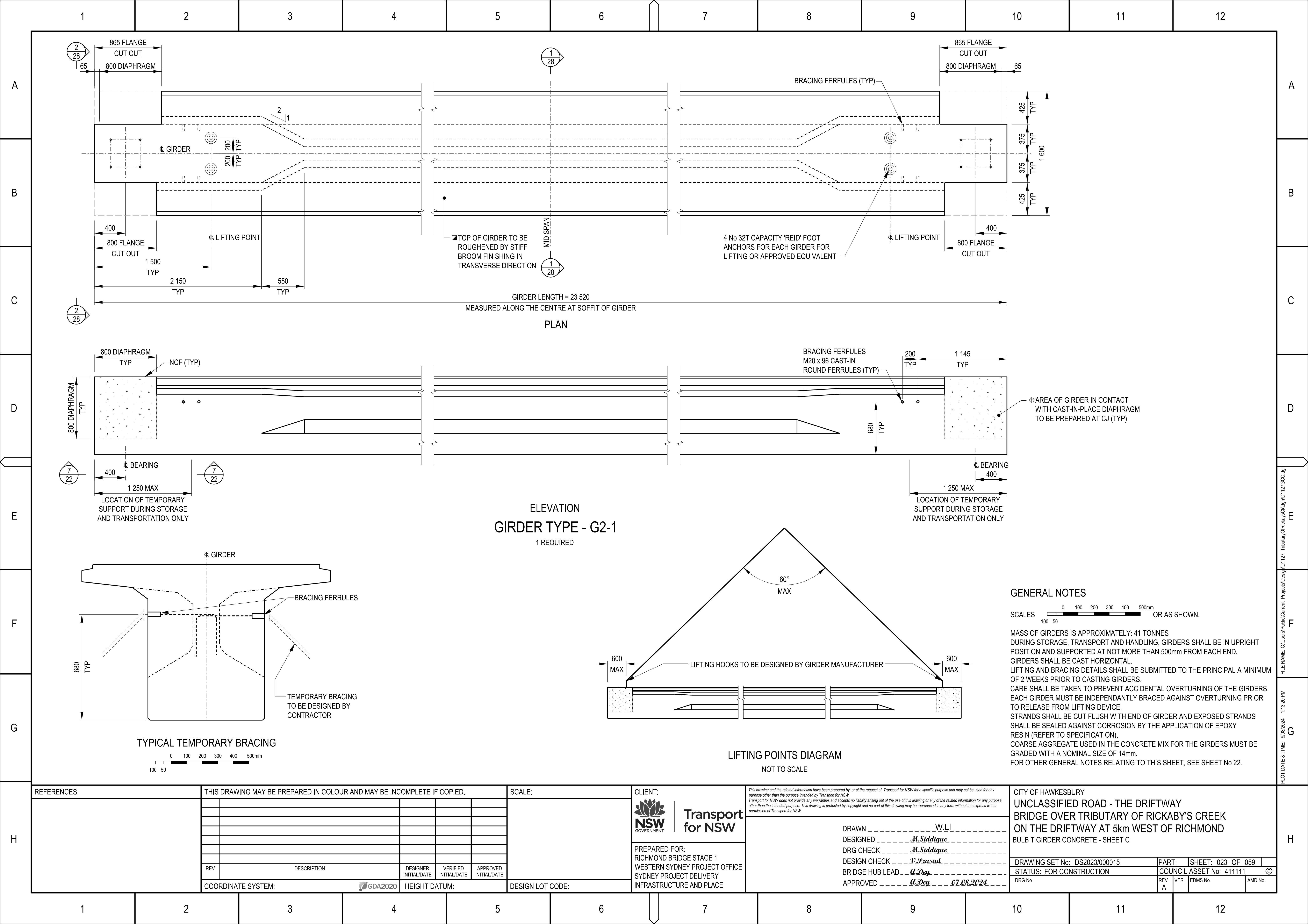
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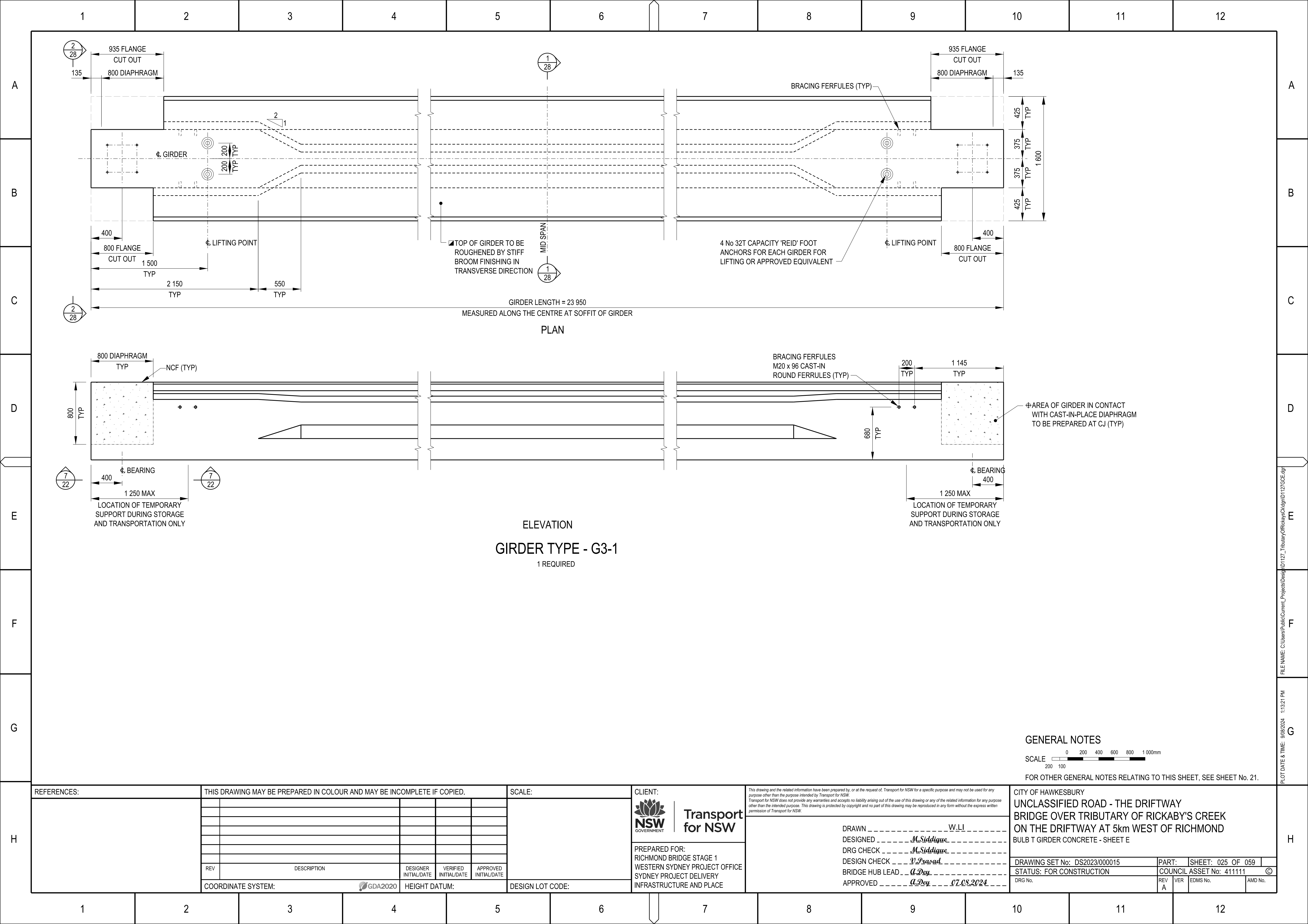


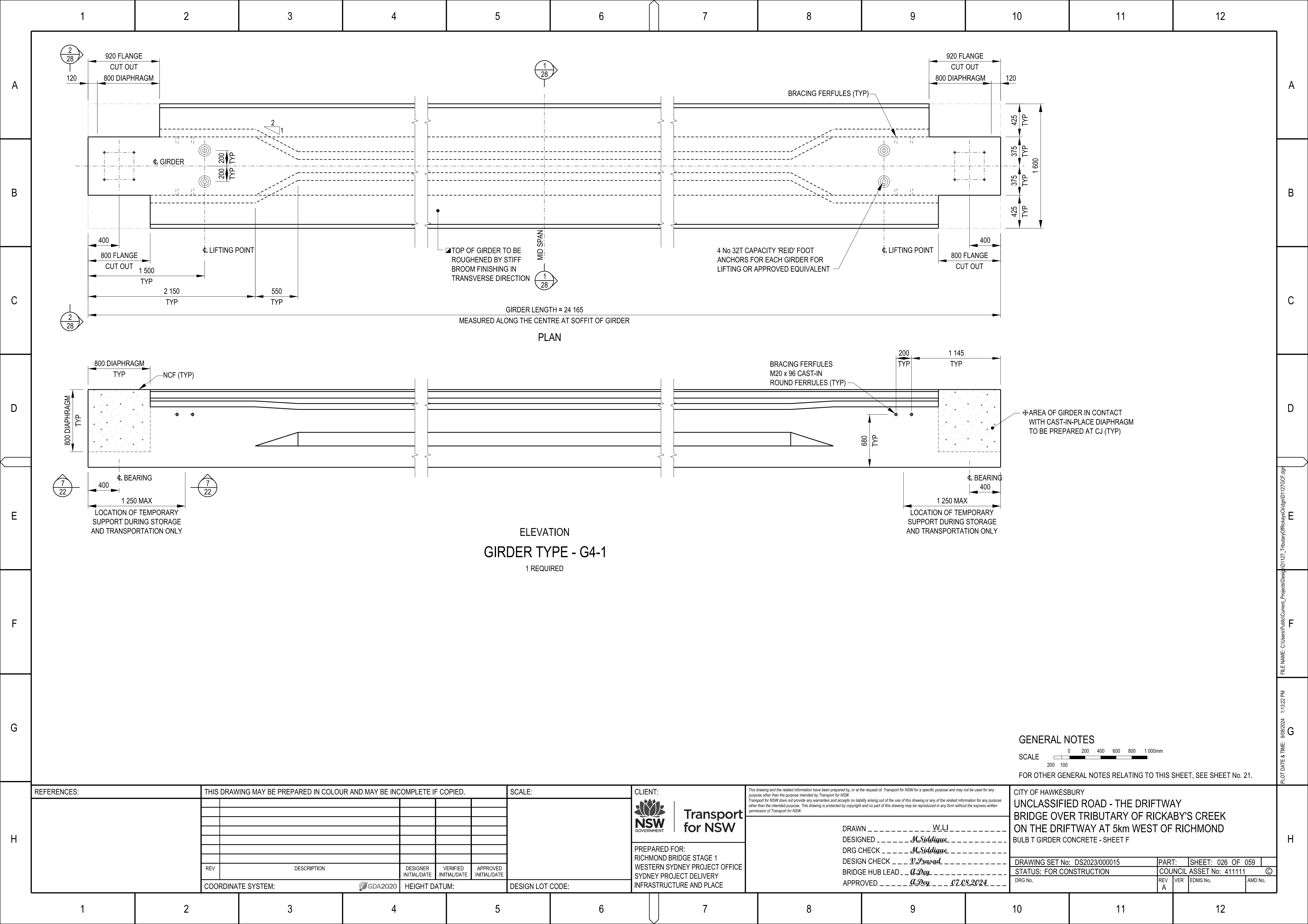
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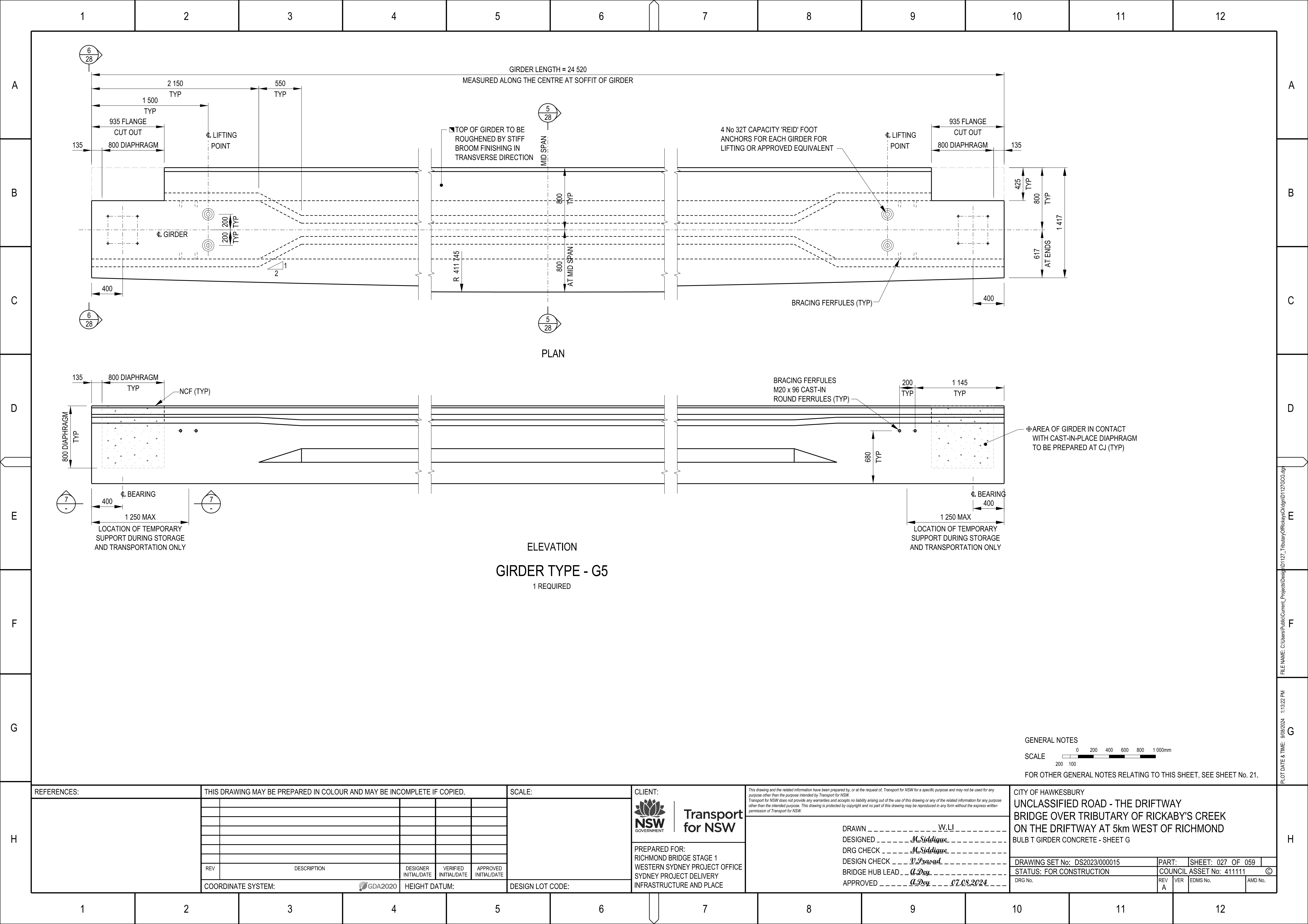
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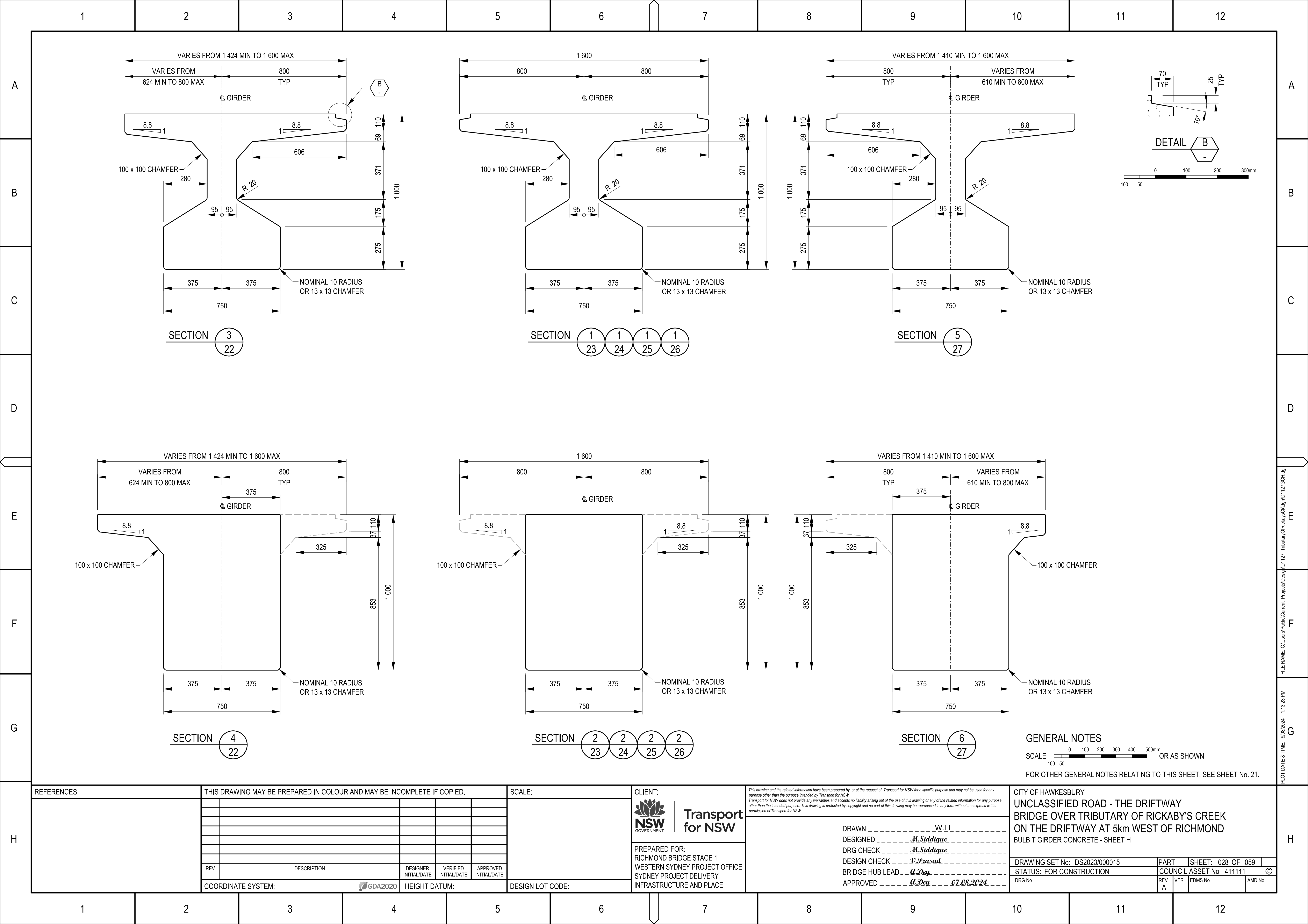












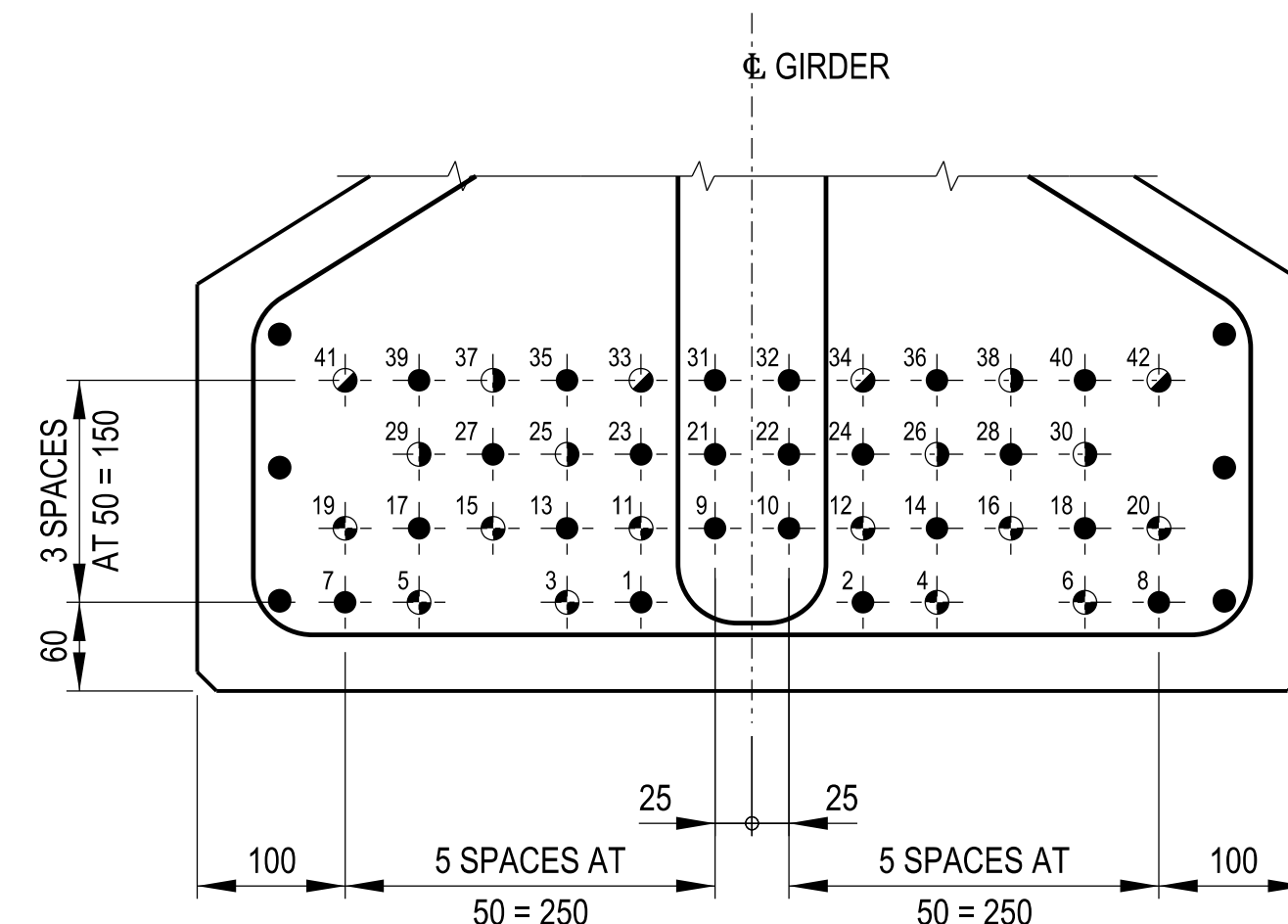
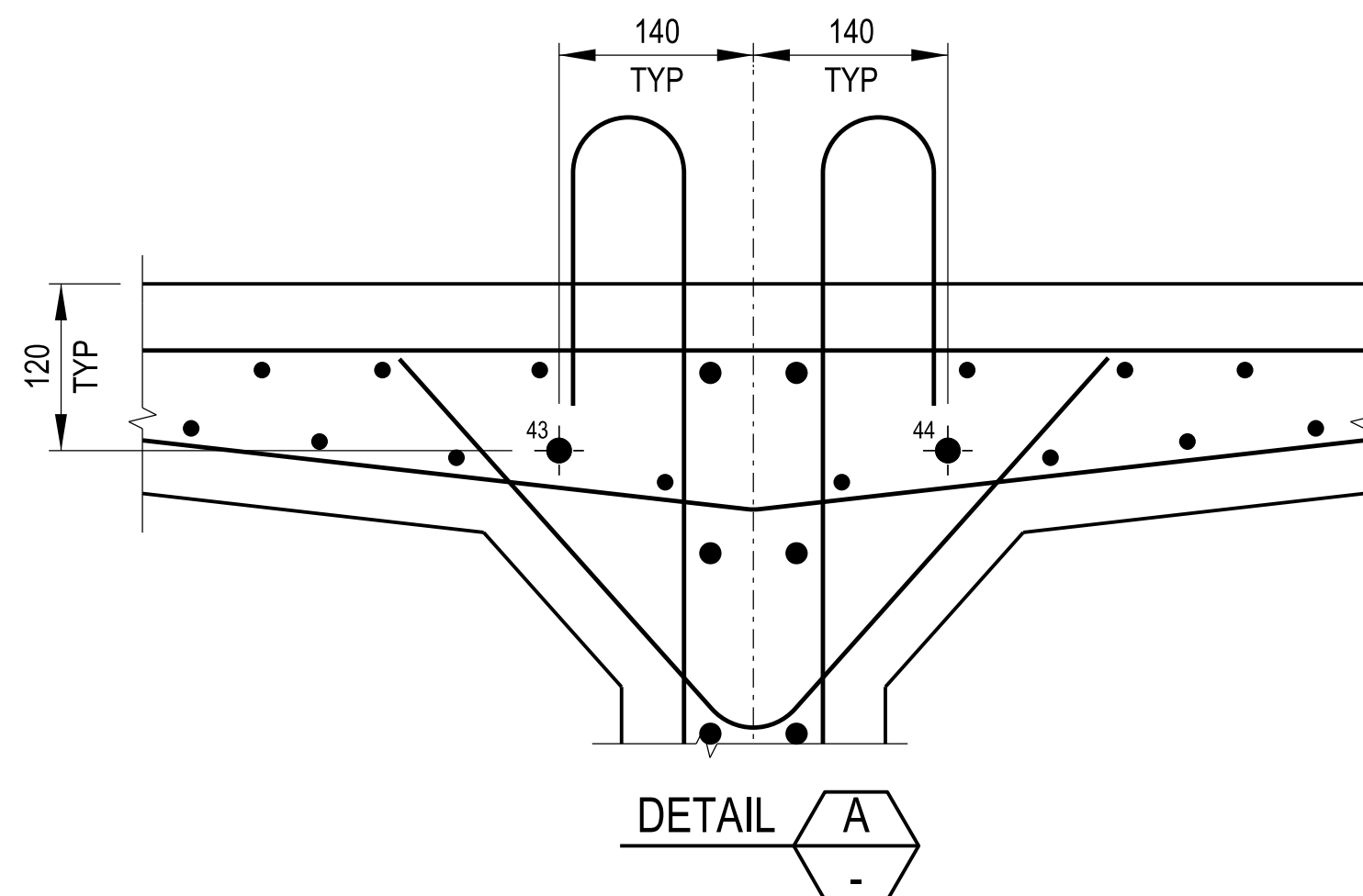
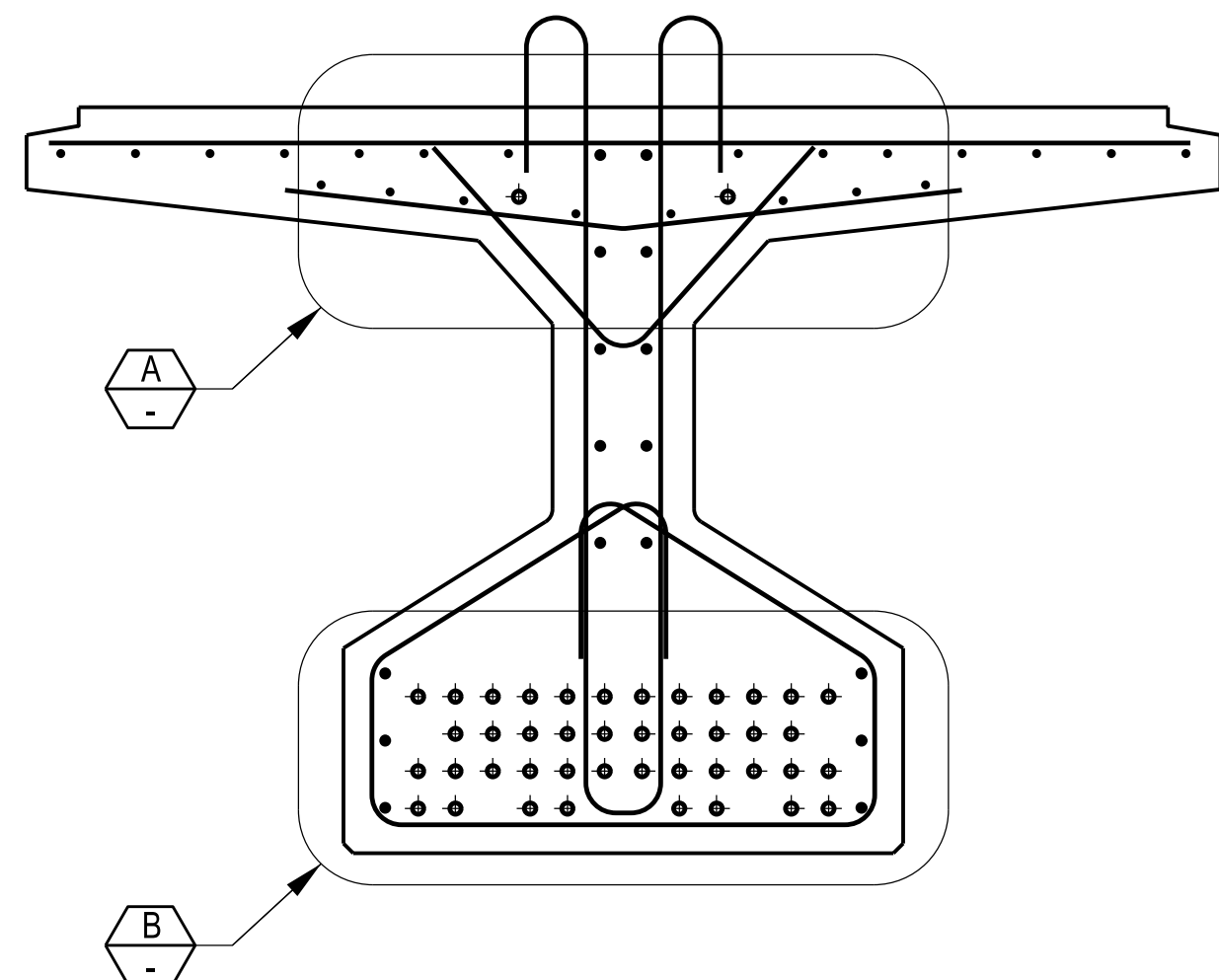


TABLE 1: HOG

TRANSFER	29
28 DAYS	38
90 DAYS	50

PRESTRESSING NOTES

STRANDS SHALL BE 15.2mm NOM DIA, 7-WIRE, ORDINARY, TENSILE STRENGTH 1750 MPa, RELAX 2 TO AS/NZS 4672.1.

MINIMUM BREAKING LOAD OF 15.2mm DIAMETER STRAND SHALL BE 250 kN THE FORCE IN EACH STRAND IMMEDIATELY AFTER THE RELEASE OF THE TENSIONING JACK SHALL BE 187.5kN. RELEASE OF THE STRANDS SHALL BE DONE SYMMETRICALLY ABOUT THE GIRDER COMMENCING FROM THE INNER STRANDS WORKING OUT FOLLOWING THE NUMERICAL SEQUENCE SHOWN

HOGS IN TABLE 1 ARE BASED ON THE FOLLOWING ASSUMPTIONS:

DENSITY = 2550 kg/m³

ELASTIC MODULUS AT TRANSFER = 32 700MPa

ELEVATED TEMPERATURE CURING AT 70 °C FOR 8 HOURS AFTER CASTING STORAGE IN OPEN AIR (AFTER ELEVATED TEMPERATURE CURING) AT 20°C AVERAGE TEMPERATURE AND RELATIVE HUMIDITY OF 70%



NO LOADS EXCEPT GIRDER SELF WEIGHT

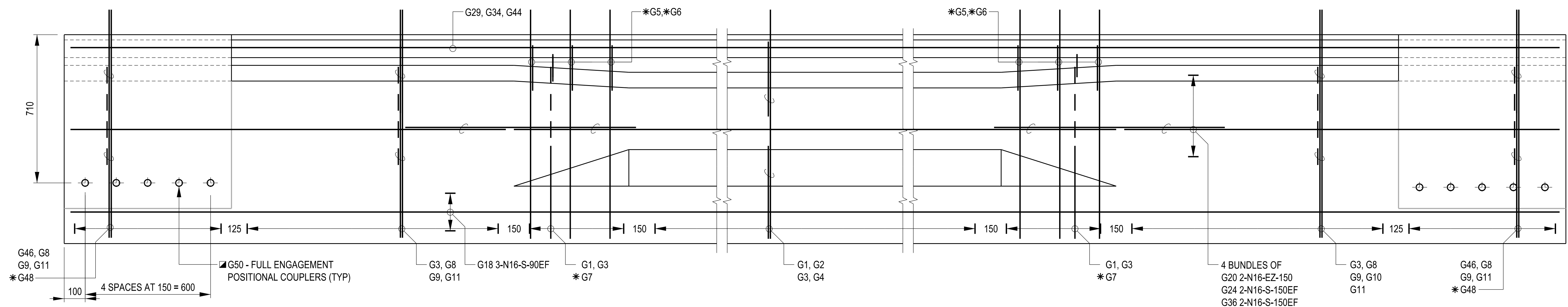
- DENOTES STRANDS DEBONDED 6500 FROM EACH END
- DENOTES STRANDS DEBONDED 4000 FROM EACH END
- DENOTES STRANDS DEBONDED 2000 FROM EACH END

GENERAL NOTES

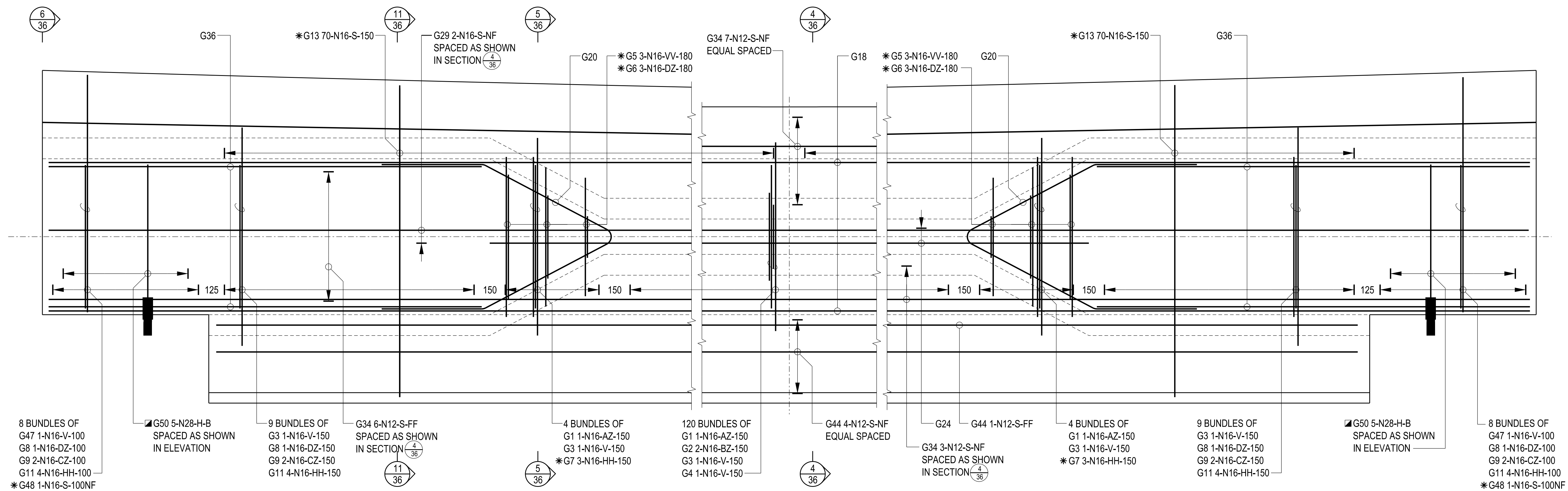
0 100 200 300 400 500mm
SCALES 100 50 OR AS SHOWN.

FOR OTHER GENERAL NOTES RELATING TO THIS SHEET, SEE SHEET No 37.

REFERENCES:	THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.					SCALE:	CLIENT:	<small>This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW.</small>	CITY OF HAWKESBURY UNCLASSIFIED ROAD - THE DRIFTWAY BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK ON THE DRIFTWAY AT 5km WEST OF RICHMOND BULB T GIRDER REINFORCEMENT - SHEET A
						 Transport for NSW	DRAWN _____ W.LI DESIGNED _____ <u>M. Siddique</u> DRG CHECK _____ <u>M. Siddique</u> DESIGN CHECK _____ <u>V. Prasad</u> BRIDGE HUB LEAD _____ <u>A. Day</u> APPROVED _____ <u>A. Day</u> _____ <u>07.08.2024</u>		
							PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE		
	REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE				
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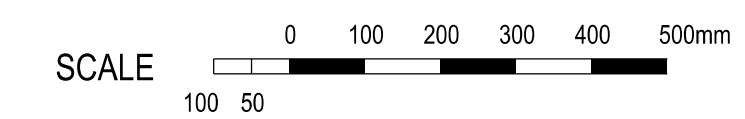


ELEVATION





PLAN
GIRDER TYPE - G1

GENERAL NOTES



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							<div>DRAWN _____ W.LI</div> <div>DESIGNED _____ <u>M.Siddique</u></div> <div>DRG CHECK _____ <u>M.Siddique</u></div> <div>DESIGN CHECK _____ <u>V.Prasad</u></div> <div>BRIDGE HUB LEAD _____ <u>A.Dey</u></div> <div>APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u></div>	
REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE		PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE		
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CITY OF HAWKESBURY

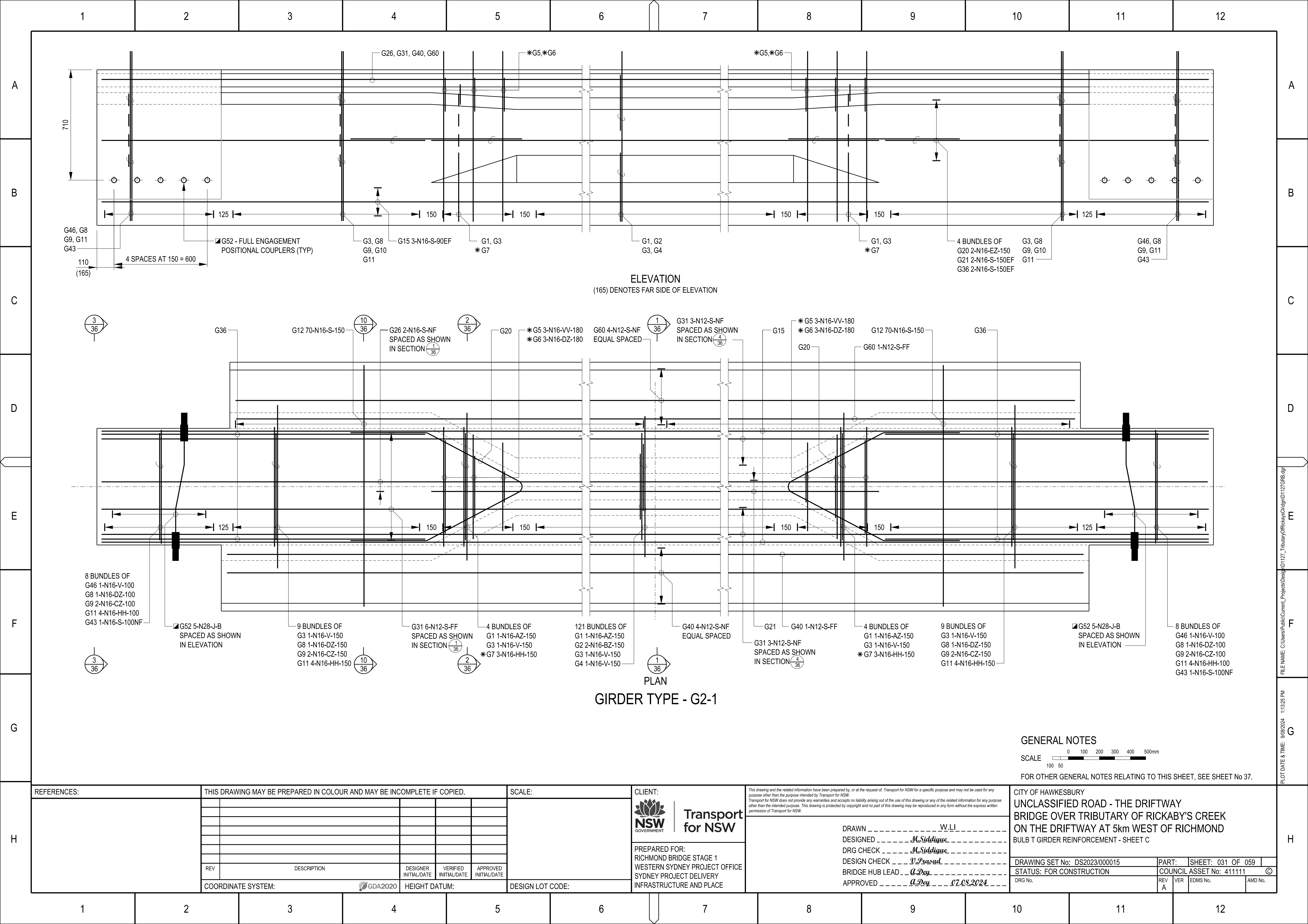
UNCLASSIFIED ROAD - THE DRIFTWAY

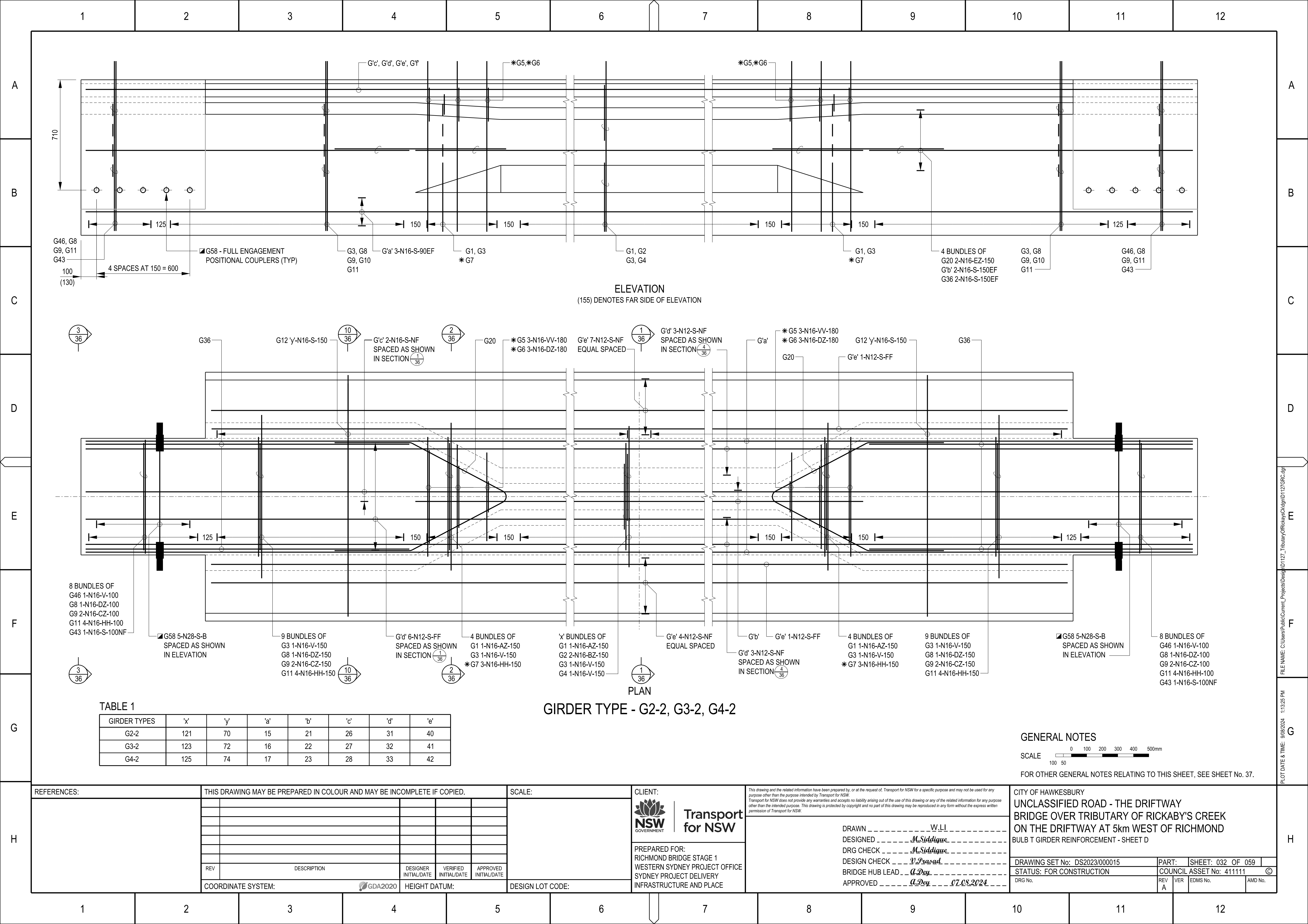
BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK

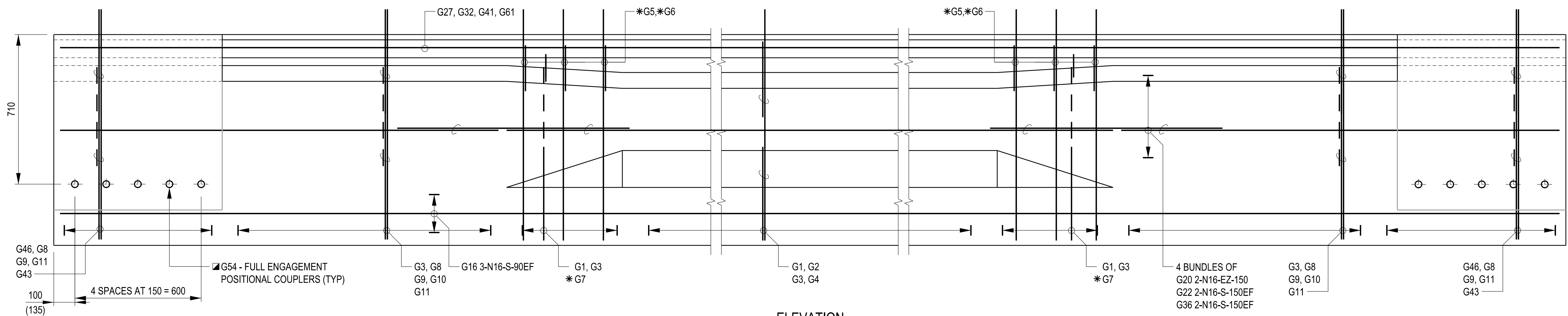
ON THE DRIFTWAY AT 5km WEST OF RICHMOND

BULB T GIRDER REINFORCEMENT - SHEET B

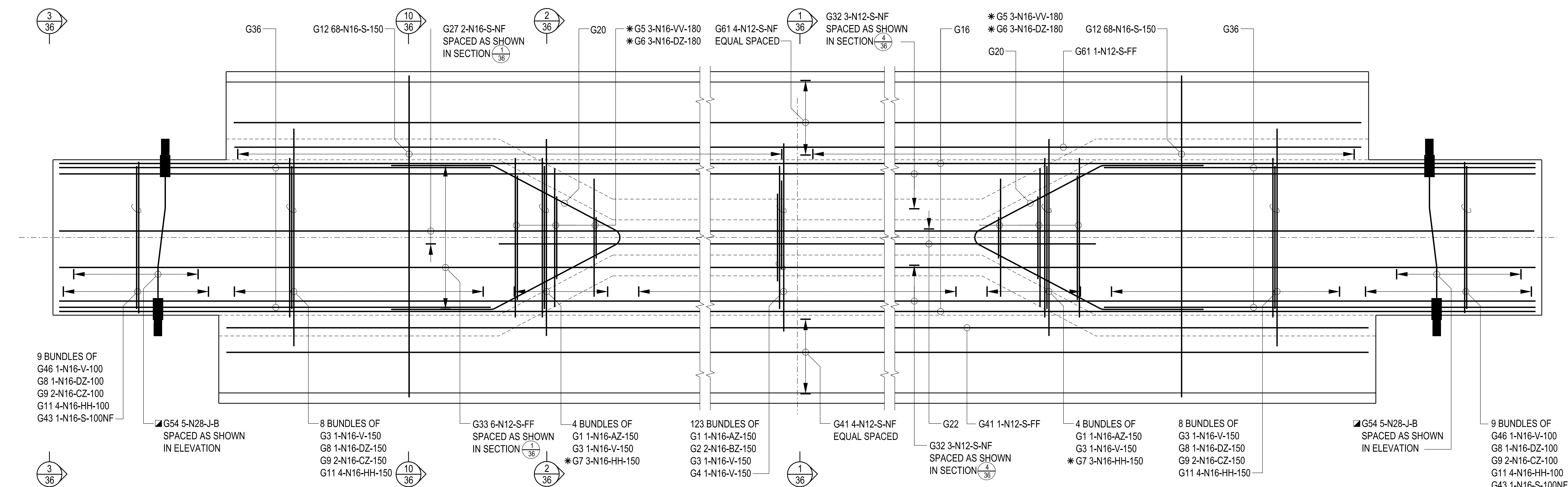
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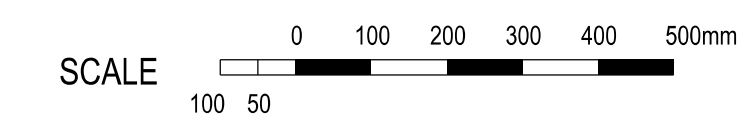
ELEVATION





PLAN

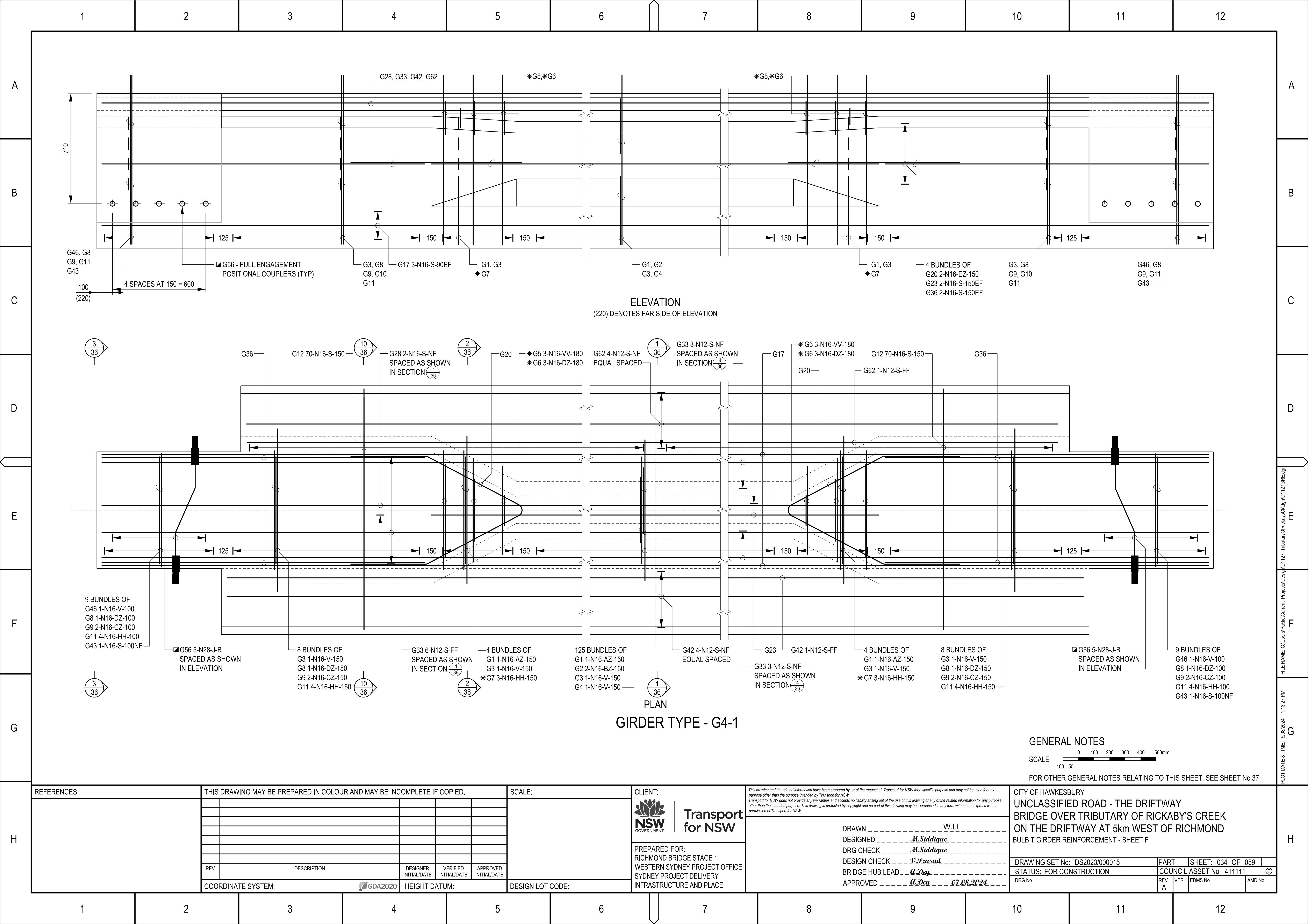
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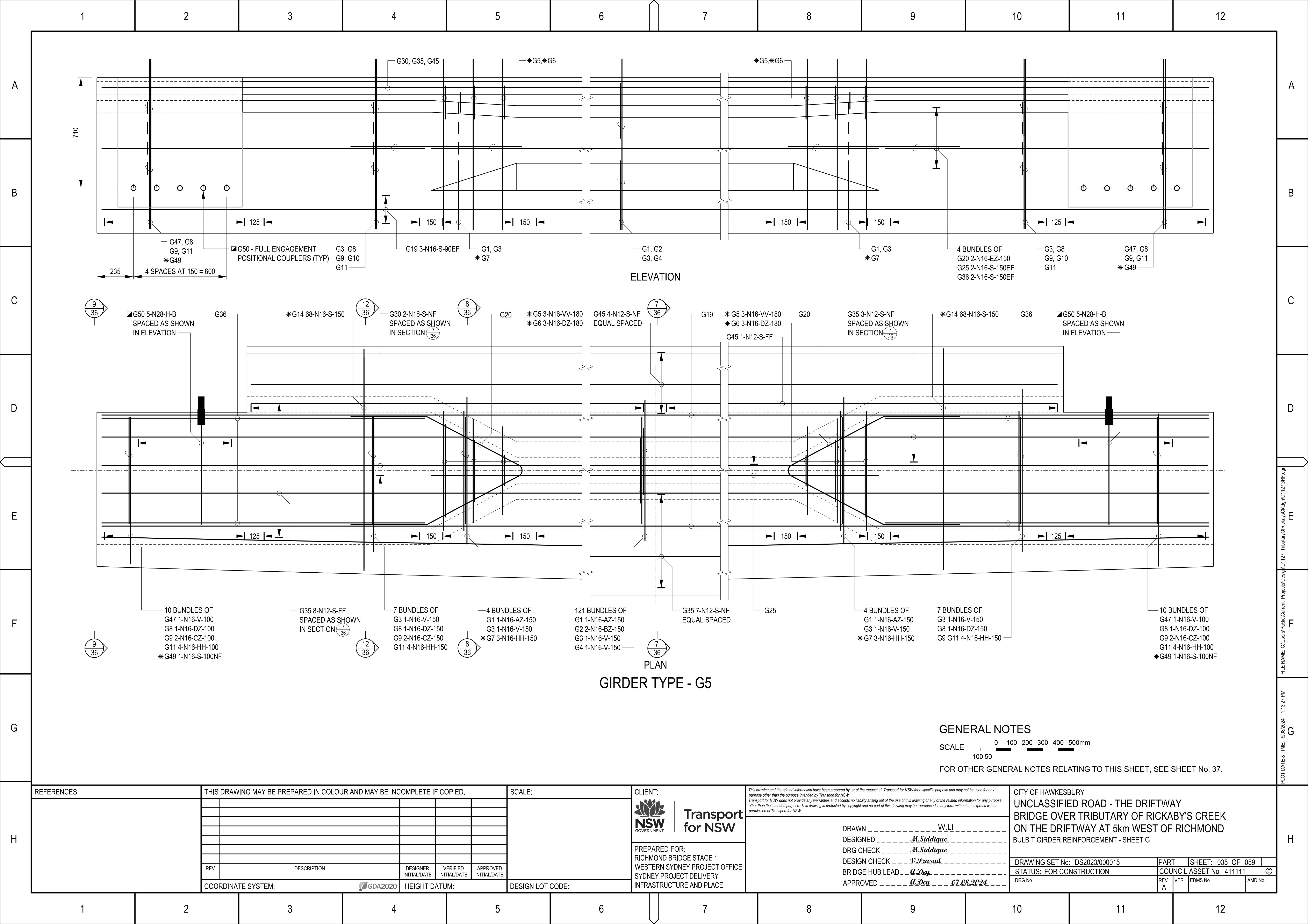
GENERAL NOTES

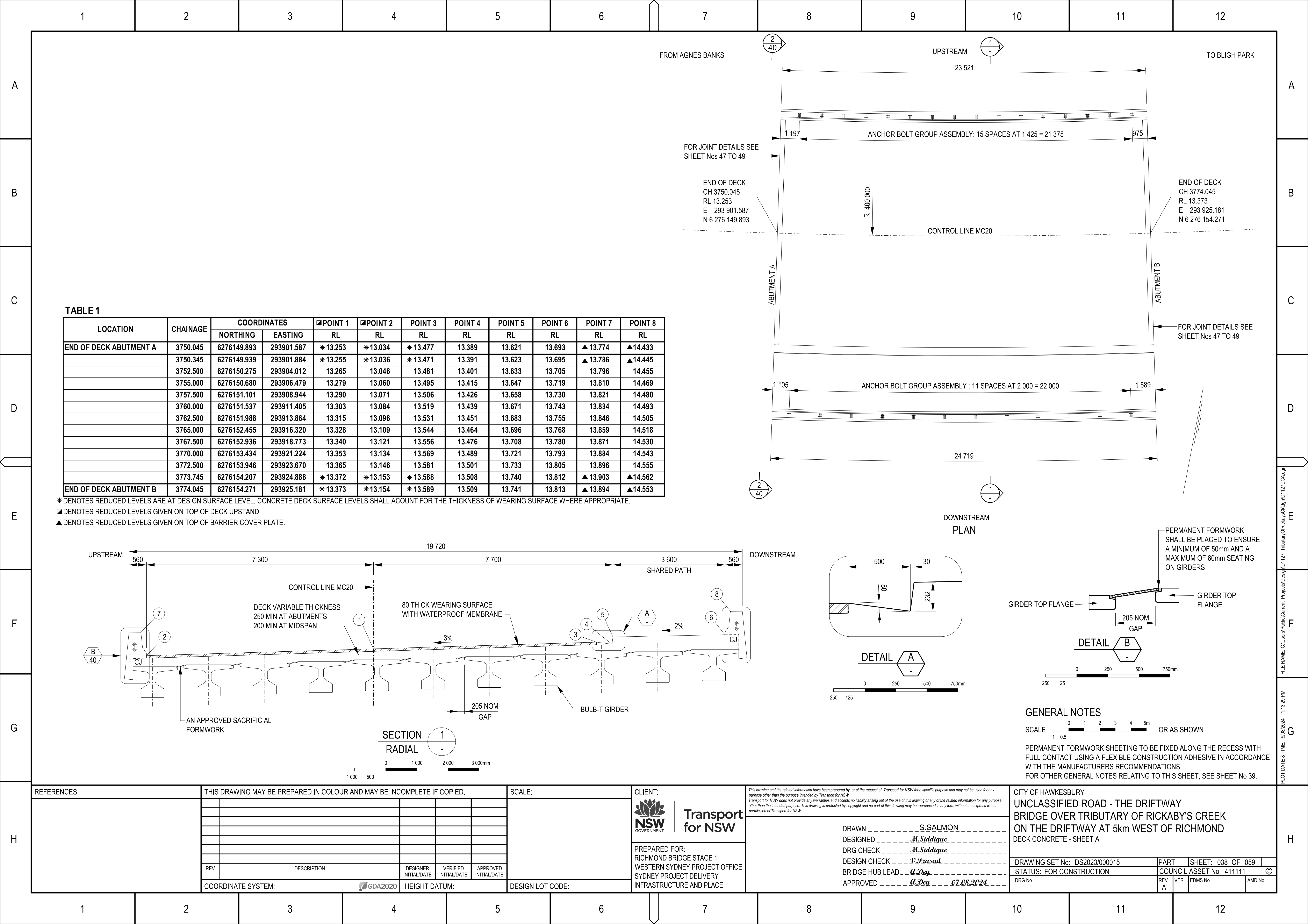


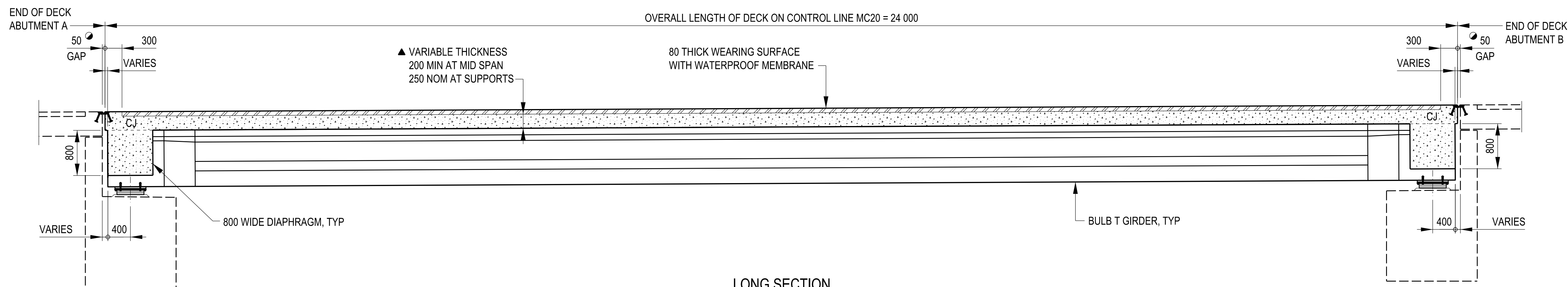
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	REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE			PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE	<div>DRAWN _____ W.LI</div> <div>DESIGNED _____ <u>M.Siddique</u></div> <div>DRG CHECK _____ <u>M.Siddique</u></div> <div>DESIGN CHECK _____ <u>P.Prasad</u></div> <div>BRIDGE HUB LEAD _____ <u>A.Dey</u></div> <div>APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u></div>
COORDINATE SYSTEM: 		HEIGHT DATUM:		DESIGN LOT CODE:				<div>DRAWING SET No: DS2023/000015</div> <div>PART: SHEET: 033 OF 059</div> <div>STATUS: FOR CONSTRUCTION</div> <div>COUNCIL ASSET No: 411111 ©</div> <div>DRG No. _____</div> <div>REV _____</div> <div>VER _____</div> <div>EDMS No. _____</div> <div>AMD No. _____</div>	

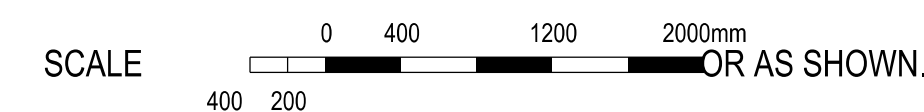








GENERAL NOTES



CONCRETE EXPOSURE CLASSIFICATION: A.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE AND GROUT TO BE 40MPa.

THE CONCRETE CURING METHOD FOR THE DECK SHALL BE WET CURING IN ACCORDANCE WITH TNSW QA SPECIFICATION B80.

EDGES TO BE CHAMFERED 10 x 10mm AND RE-ENTRANT ANGLES FILLETED 20 x 20mm UNLESS SPECIFIED OTHERWISE.

NCF DENOTES NO CHAMFER OR FILLET.

▲ DENOTES NOMINAL DIMENSIONS AT ENDS OF SPAN - TO BE VARIED ELSEWHERE DUE TO MAXIMUM CALCULATED GIRDER HOG OF 50mm, IF GIRDER HOG EXCEEDS 50mm, THE CEMENT MORTAR PAD UNDER BEARING IS TO BE REDUCED IN THICKNESS TO COMPENSATE FOR THE EXCESS GIRDER HOG, IF THE GIRDER HOG EXCEEDS 72mm, INCREASE DECK THICKNESS TO PROVIDE A MINIMUM DEPTH OF CONCRETE OF 200mm OVER MID-SPAN.

CALCULATED MID SPAN DEFLECTION DUE TO WEIGHT OF CAST-IN-PLACE CONCRETE IS APPROX:
15mm FOR 24m SPAN.

REDUCED LEVELS AT THE TOP OF PARAPETS, ABUTMENT WINGWALLS AND APPROACH SLABS TO BE ADJUSTED ACCORDINGLY.

● DENOTES NOMINAL DIMENSION BETWEEN CONCRETE FACES AT 20°C.

CELLULAR POLYSTYRENE SHEET TO BE CLASS H IN ACCORDANCE WITH AS 1366.3.

STAINLESS STEEL DOWELS MUST CONFORM TO ASTM GRADE 316.

STAINLESS STEEL RECTANGULAR HOLLOW SECTIONS MUST CONFORM TO ASTM GRADE 304.

HIGH STRENGTH STEEL BOLTS, NUTS AND WASHERS MUST CONFORM TO SYSTEM HR AS SPECIFIED IN CLAUSES 1.5 AND 1.6 OF AS/NZS 1252.1.

BOLTS, NUTS AND WASHERS MUST BE PROTECTIVE TREATED IN CONFORMITY TO TNSW SPECIFICATION B240.

THE BOLTING CATEGORY FOR HIGH STRENGTH STEEL BOLTS MUST BE AS DETAILED, IN CONFORMITY TO AS/NZS 5100.6.

THE WELD CATEGORY MUST BE SP IN CONFORMITY TO TNSW SPECIFICATION B201, UNLESS SPECIFIED OTHERWISE.

MACHINING SYMBOLS CONFORM TO AS 1100.2.

WELDING SYMBOLS CONFORM TO AS 1101.3.

ALL STEEL FABRICATION AND WELDING MUST CONFORM TO TNSW SPECIFICATION B201.



THE CONSTRUCTION CATEGORY MUST BE CC3 IN CONFORMITY TO TNSW SPECIFICATION B201 UNLESS NOTED OTHERWISE.

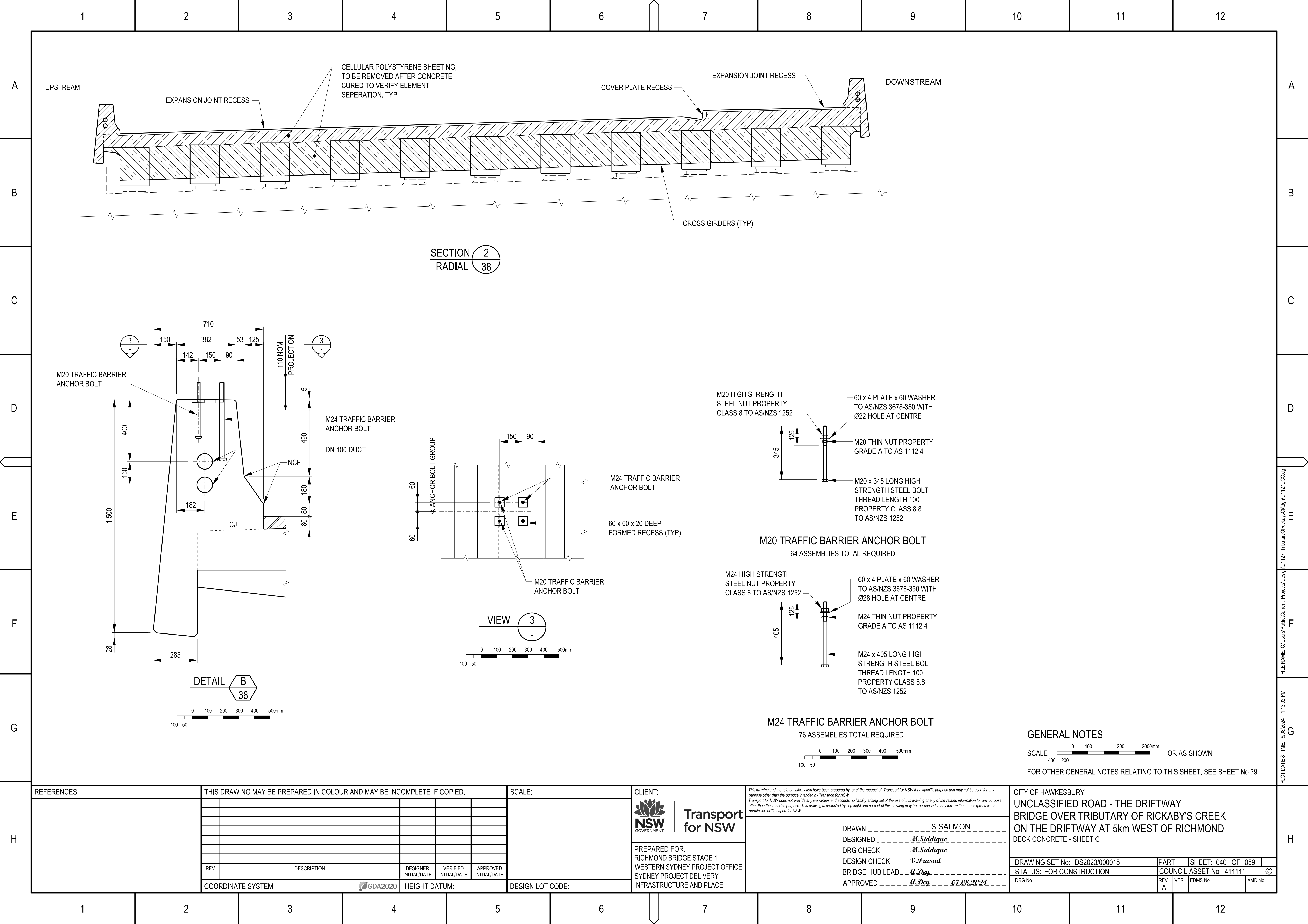
THE EXTENT OF WELD INSPECTION MUST CONFORM TO TNSW SPECIFICATION B201.

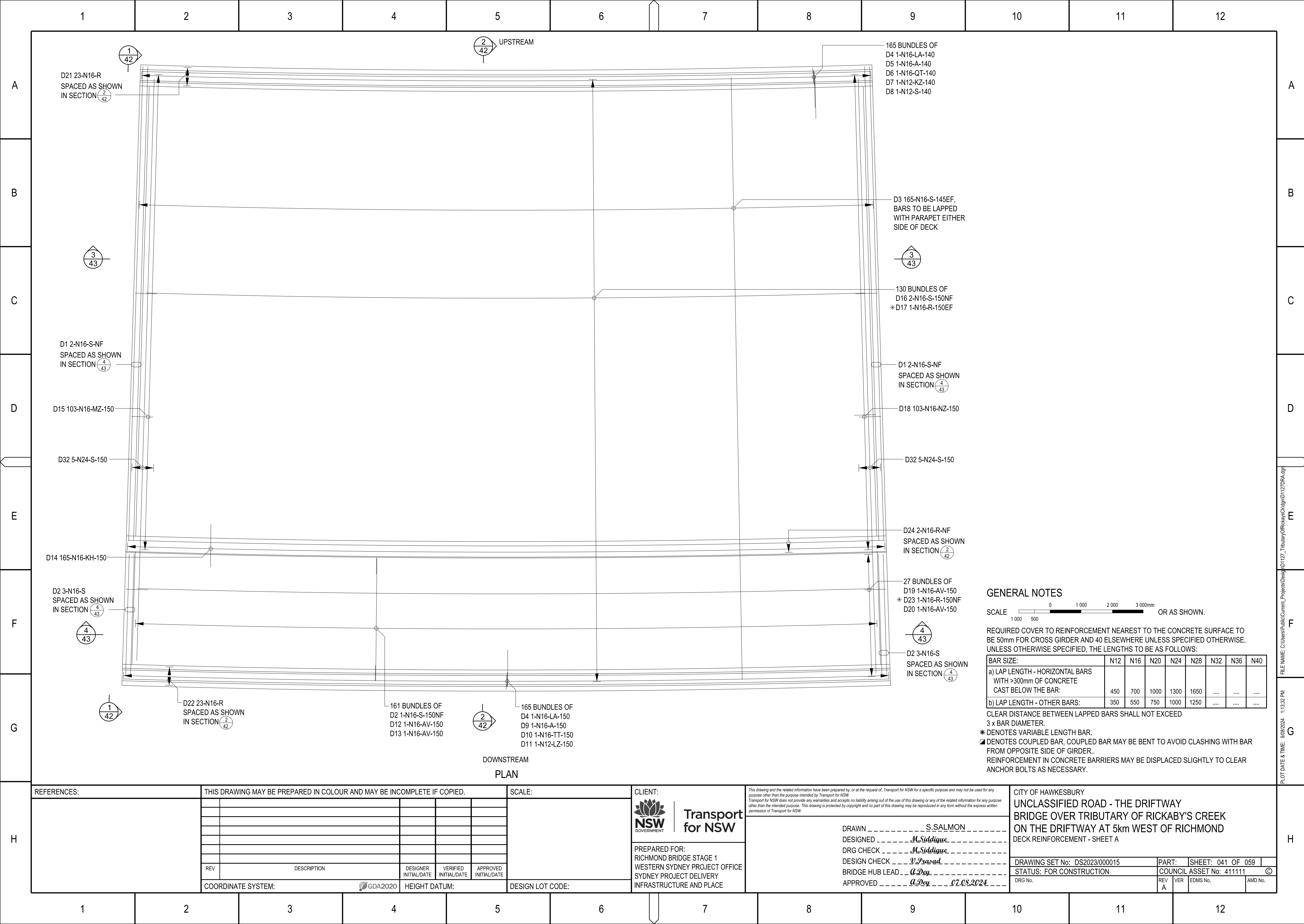
ALL COMPONENTS, EXCEPT STAINLESS STEEL ITEMS, MUST BE HOT-DIP GALVANIZED AFTER FABRICATION IN CONFORMITY TO TNSW SPECIFICATION B201 UNLESS SPECIFIED OTHERWISE.

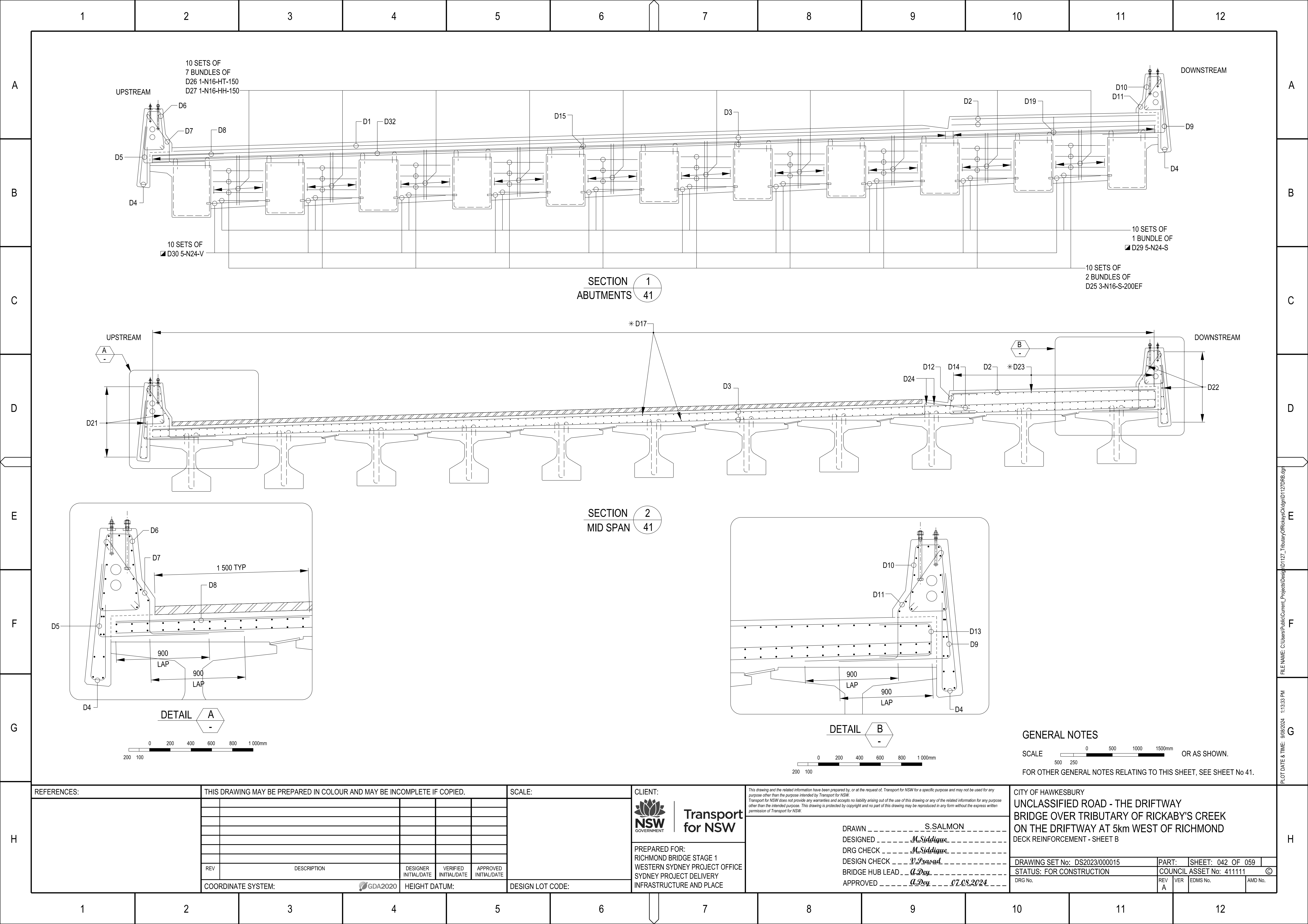
EDGES TO BE PROTECTIVE TREATED MUST BE ROUNDED TO A 2.0mm RADIUS UNLESS SPECIFIED OTHERWISE.

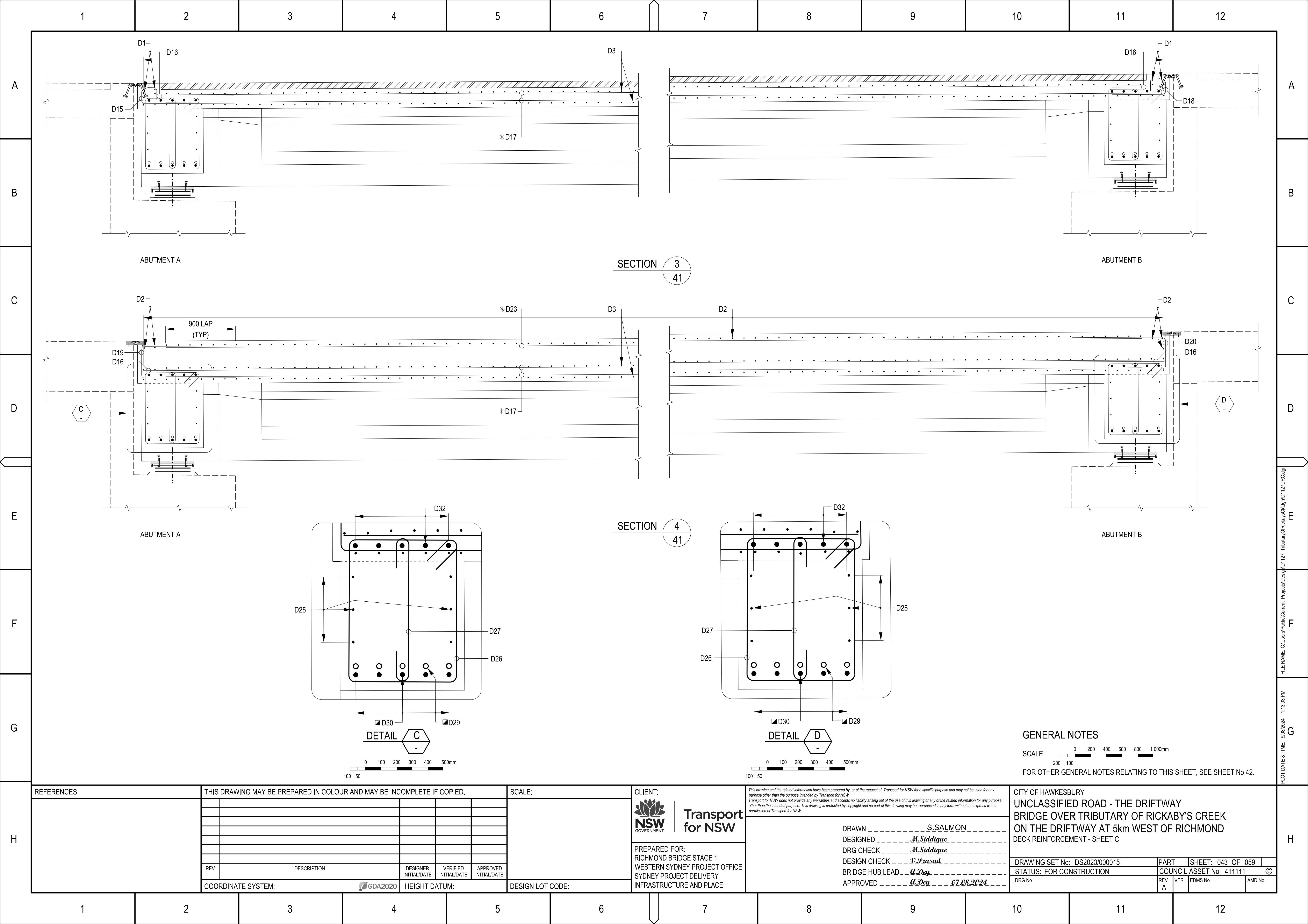
PRINCIPAL'S APPROVAL MUST BE OBTAINED FOR THE PROPOSED PERMANENT FORMWORK BY SUBMITTING THE PROPERTIES, LOAD CAPACITY, PRODUCT TESTING AND FIXING DETAILS OF THE PERMANENT FORMWORK PRIOR TO PROCUREMENT.

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						 Transport for NSW		
							DRAWN _____ S.SALMON DESIGNED _____ <u>M.Siddique</u> DRG CHECK _____ <u>M.Siddique</u> DESIGN CHECK _____ <u>V.Prasad</u> BRIDGE HUB LEAD _____ <u>A.Dey</u> APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u>	
						PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE		
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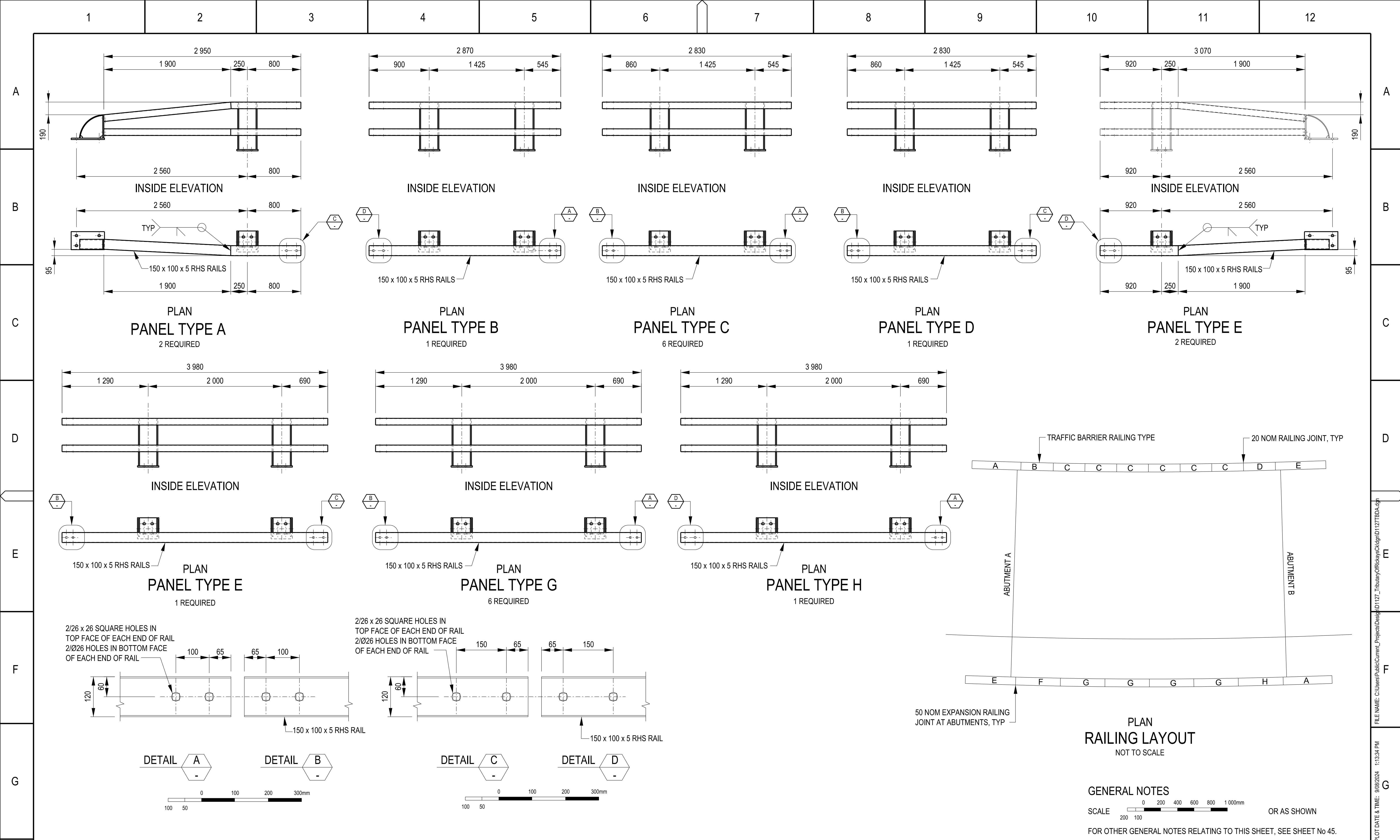






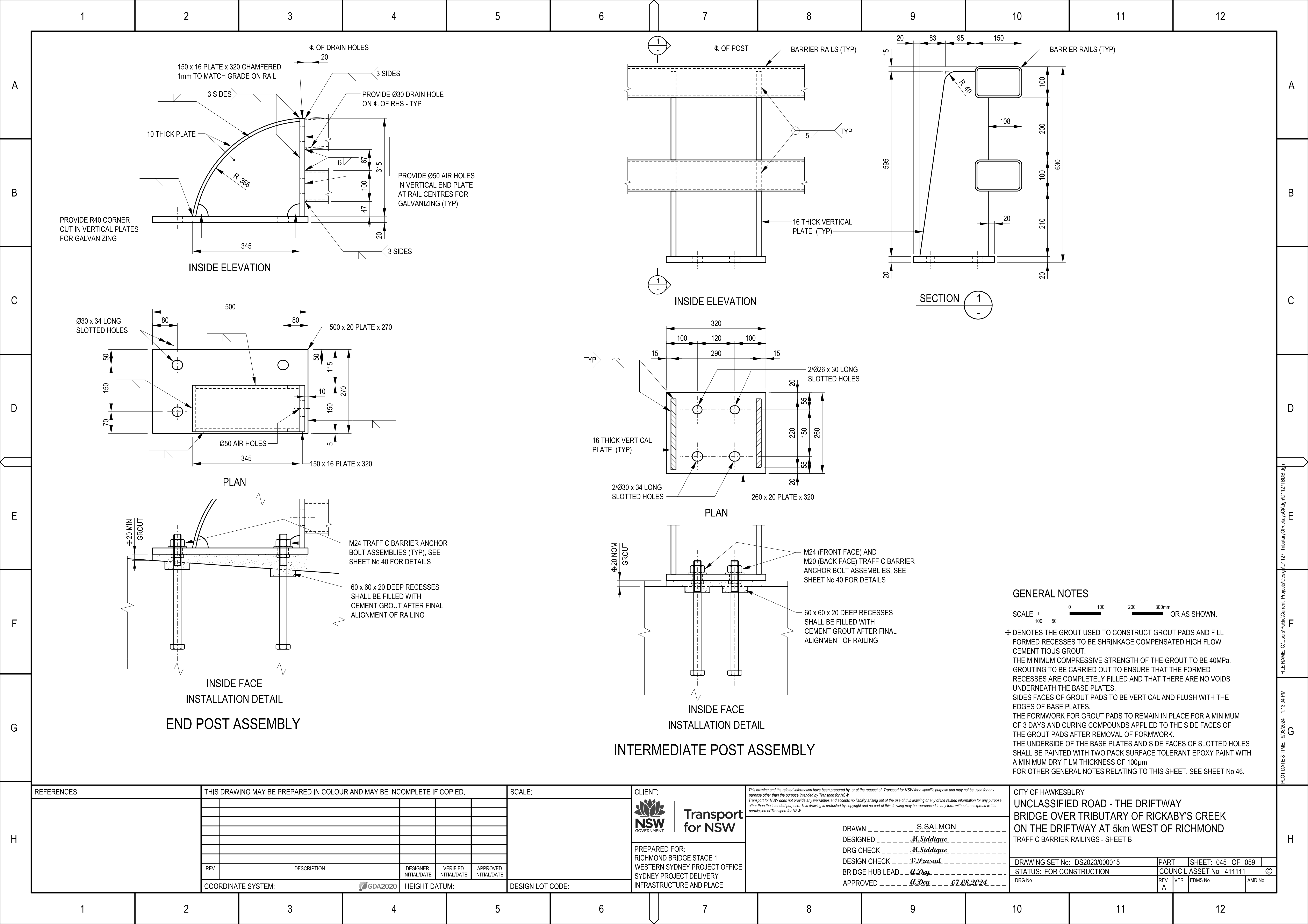


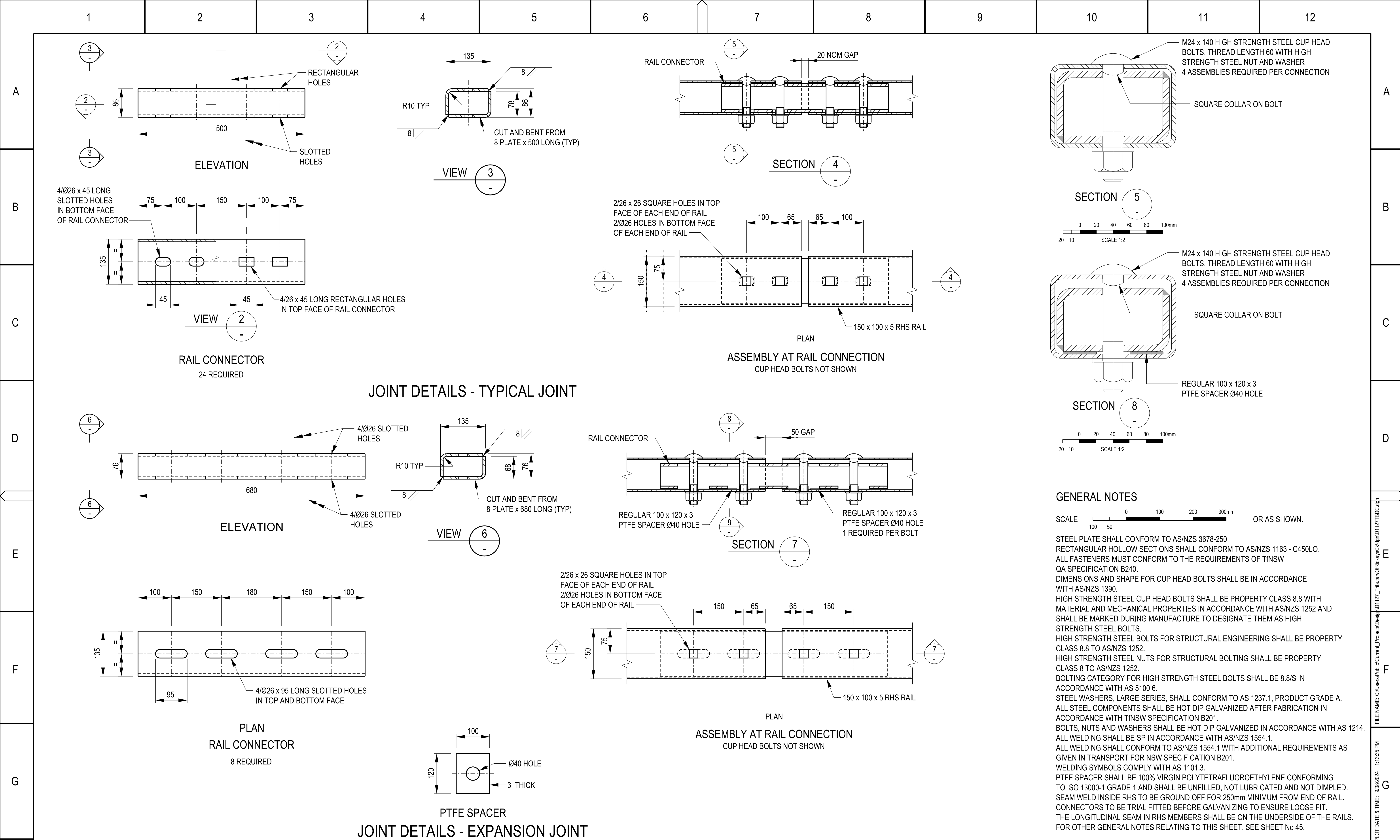
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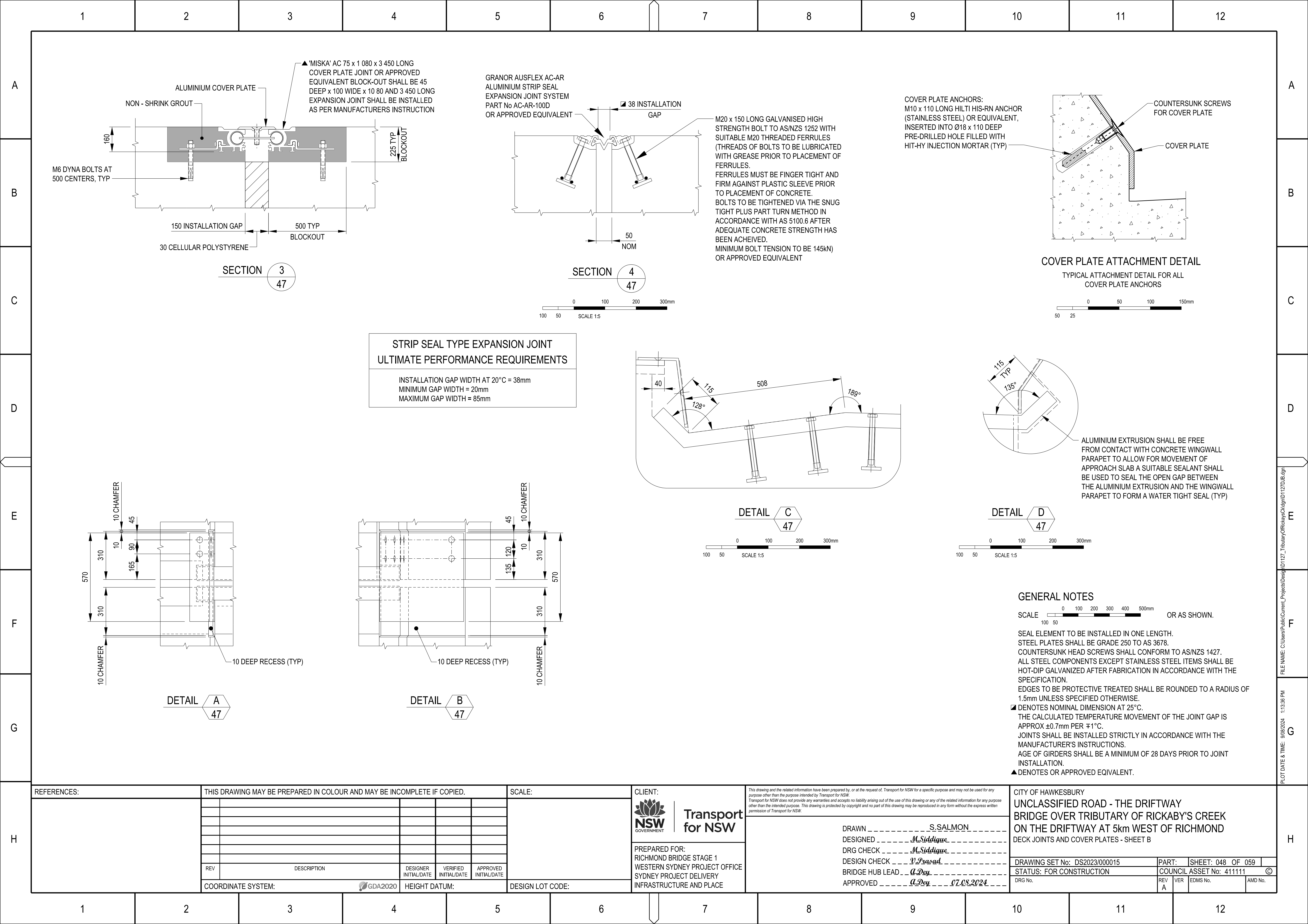


H	REFERENCES:	THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.					SCALE:	<div><div><div>Transport for NSW</div></div><div>PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE</div></div> <div><div><div>This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW.</div></div></div>	<div>CITY OF HAWKESBURY UNCLASSIFIED ROAD - THE DRIFTWAY BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK ON THE DRIFTWAY AT 5km WEST OF RICHMOND TRAFFIC BARRIER RAILINGS - SHEET A</div> <div><div>DRAWN _____ S.SALMON _____</div><div>DESIGNED _____ M.Siddique _____</div><div>DRG CHECK _____ M.Siddique _____</div><div>DESIGN CHECK _____ V.Prasad _____</div><div>BRIDGE HUB LEAD _____ A.Dey _____</div><div>APPROVED _____ A.Dey _____ 07.08.2024 _____</div></div>	H
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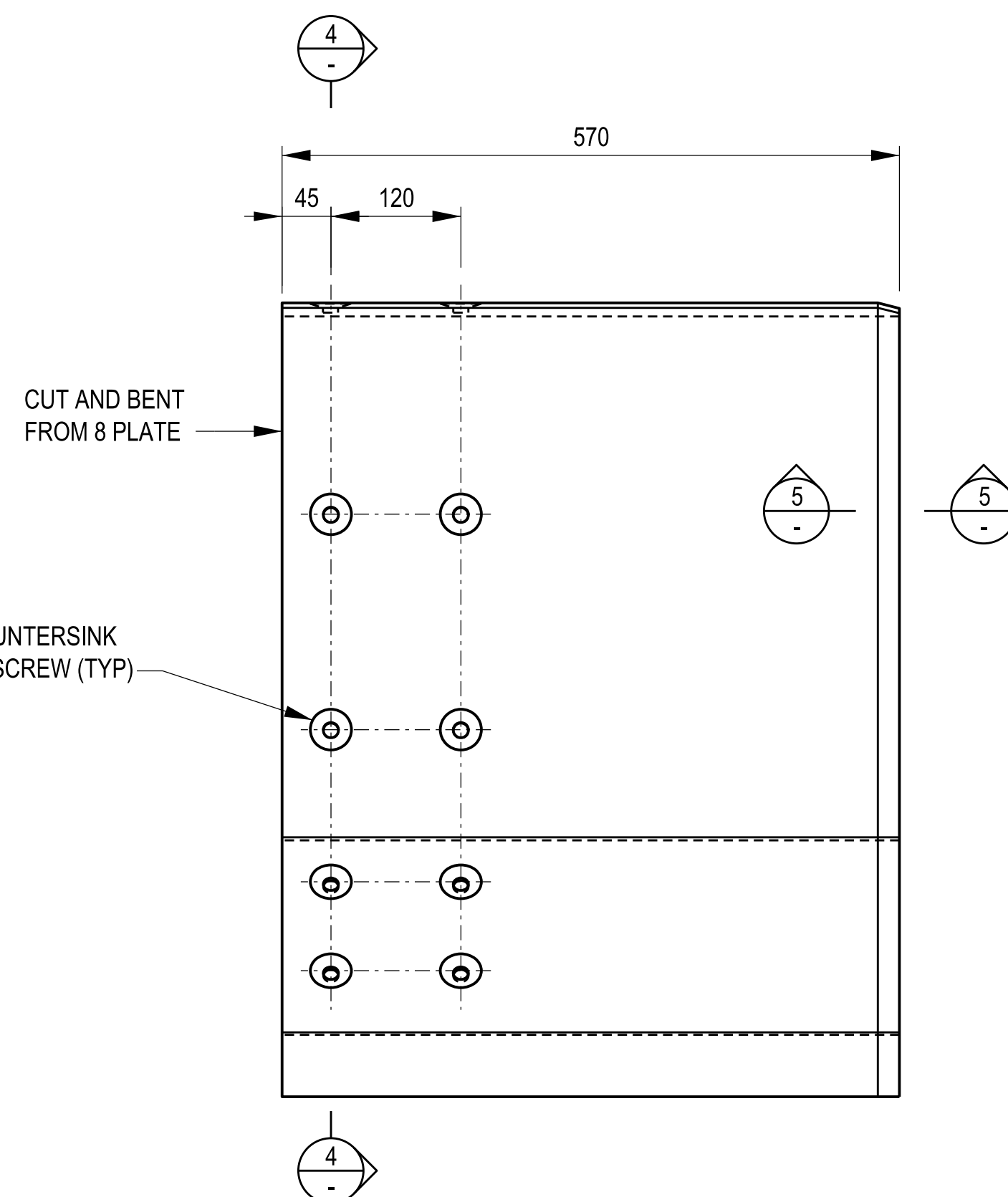
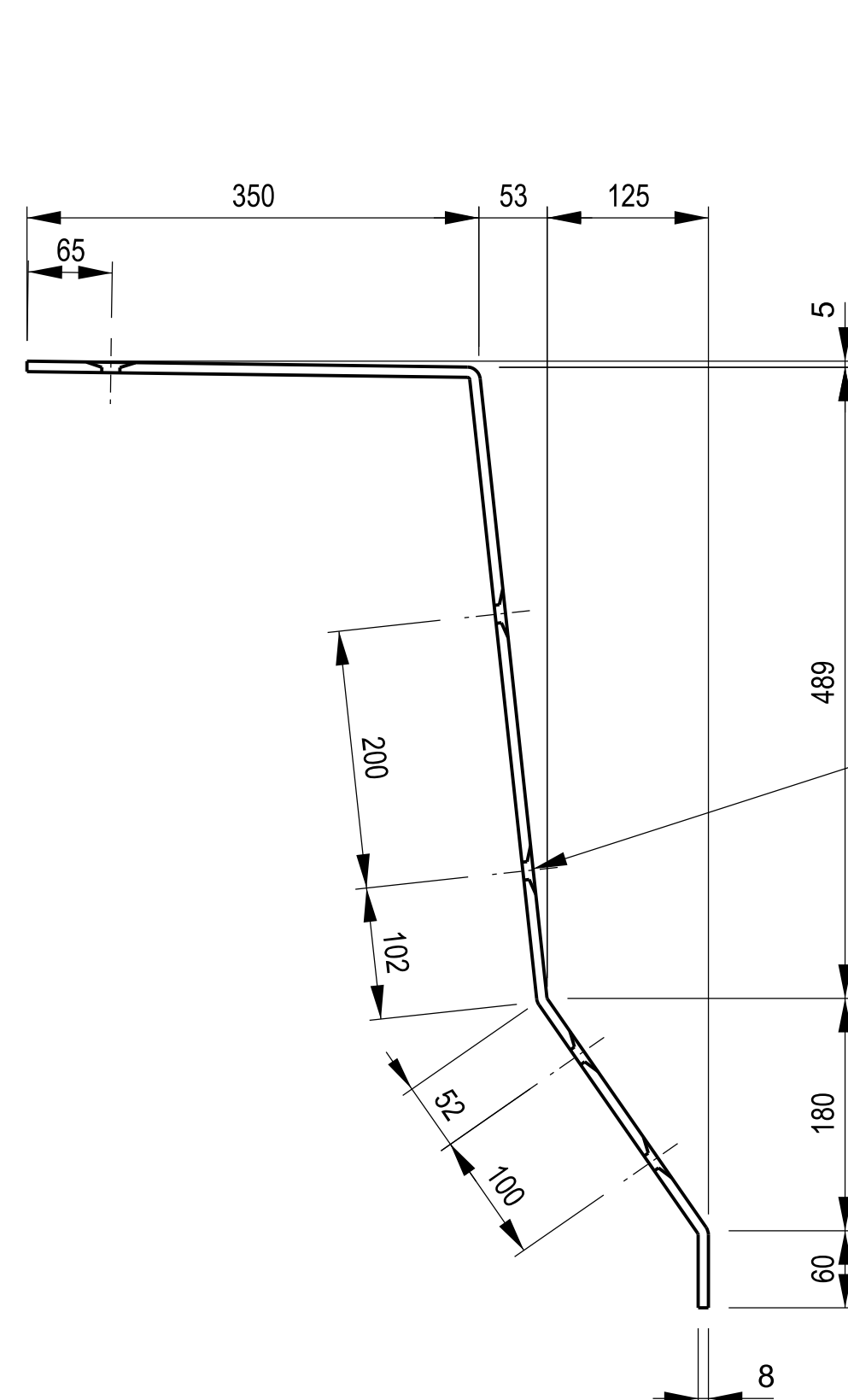
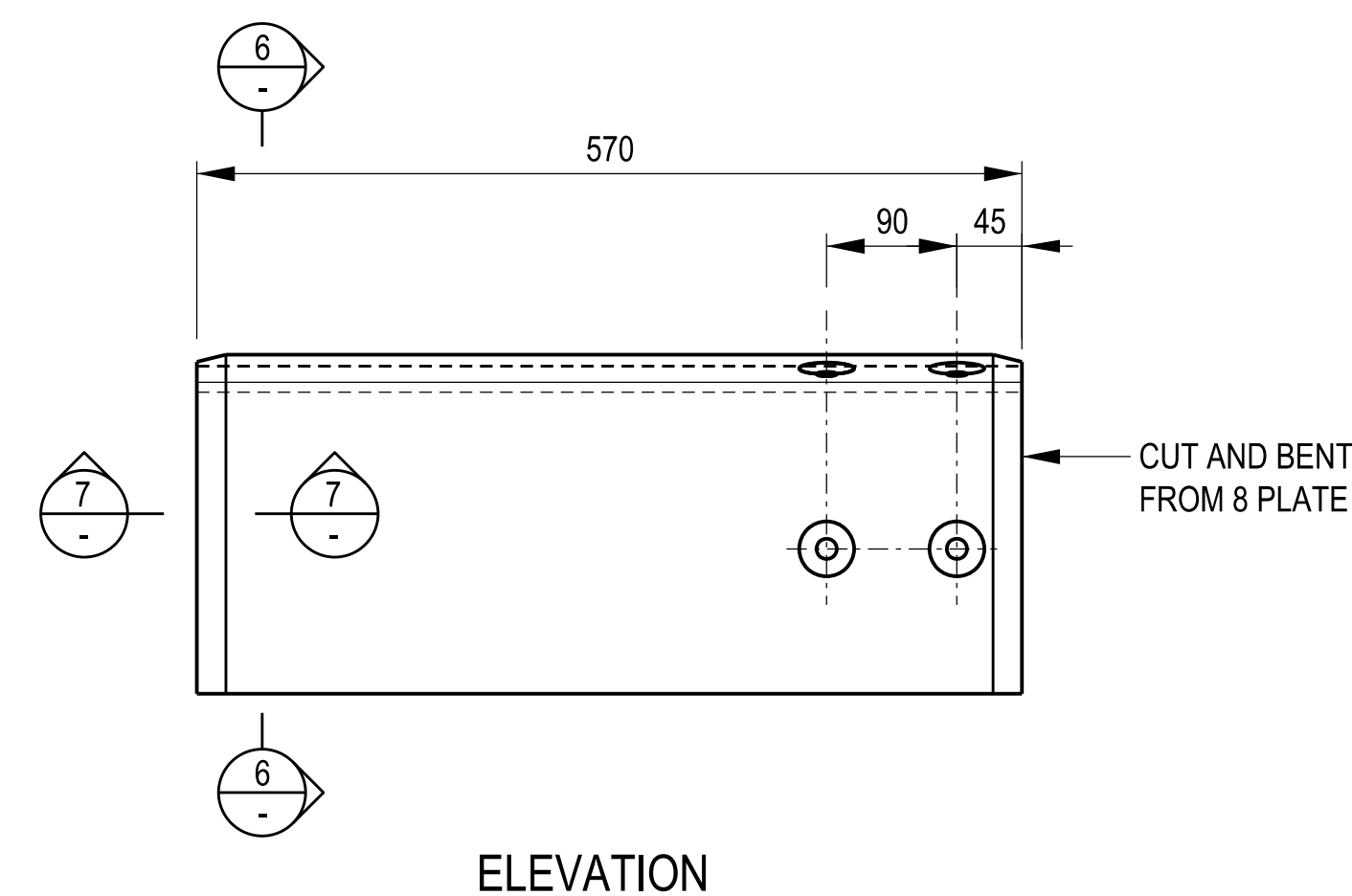
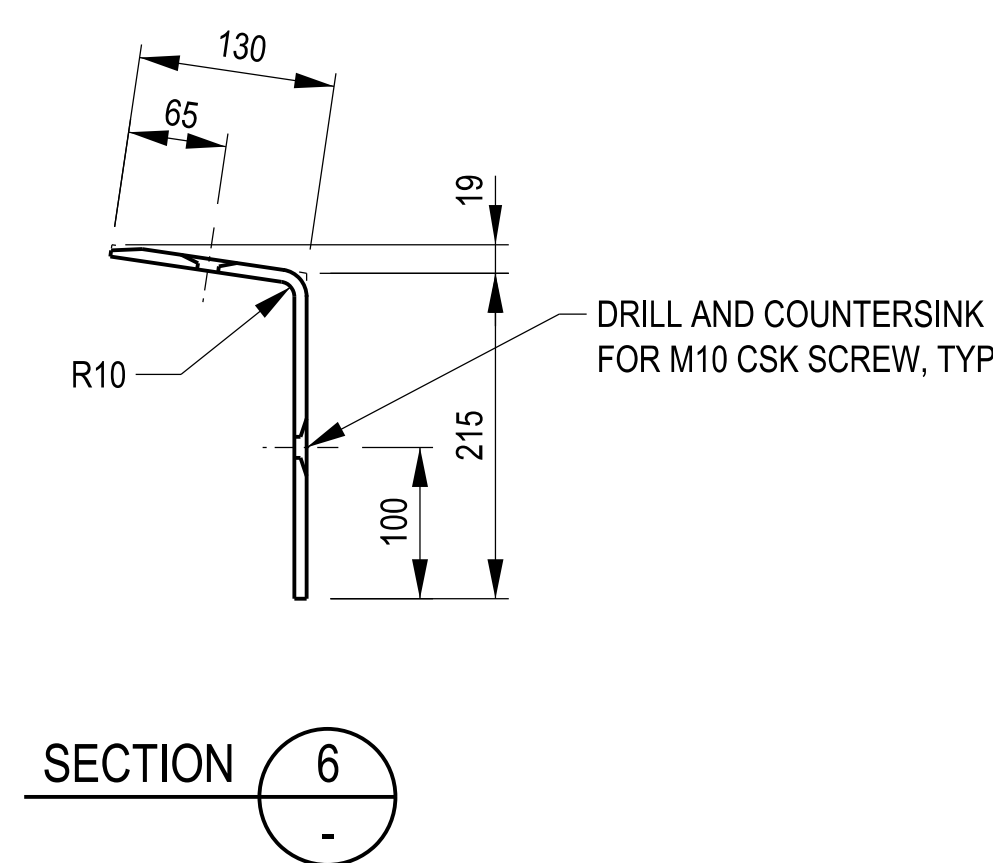
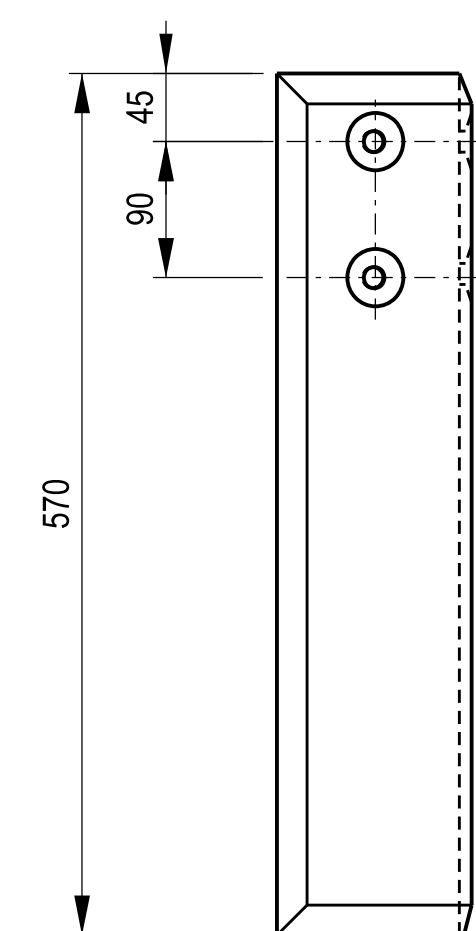
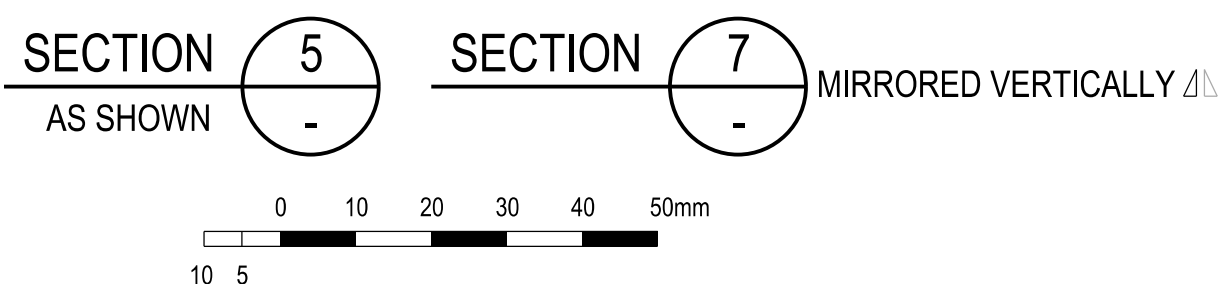
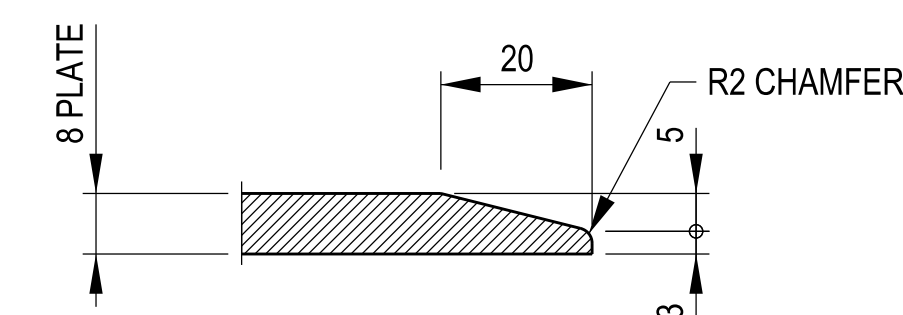
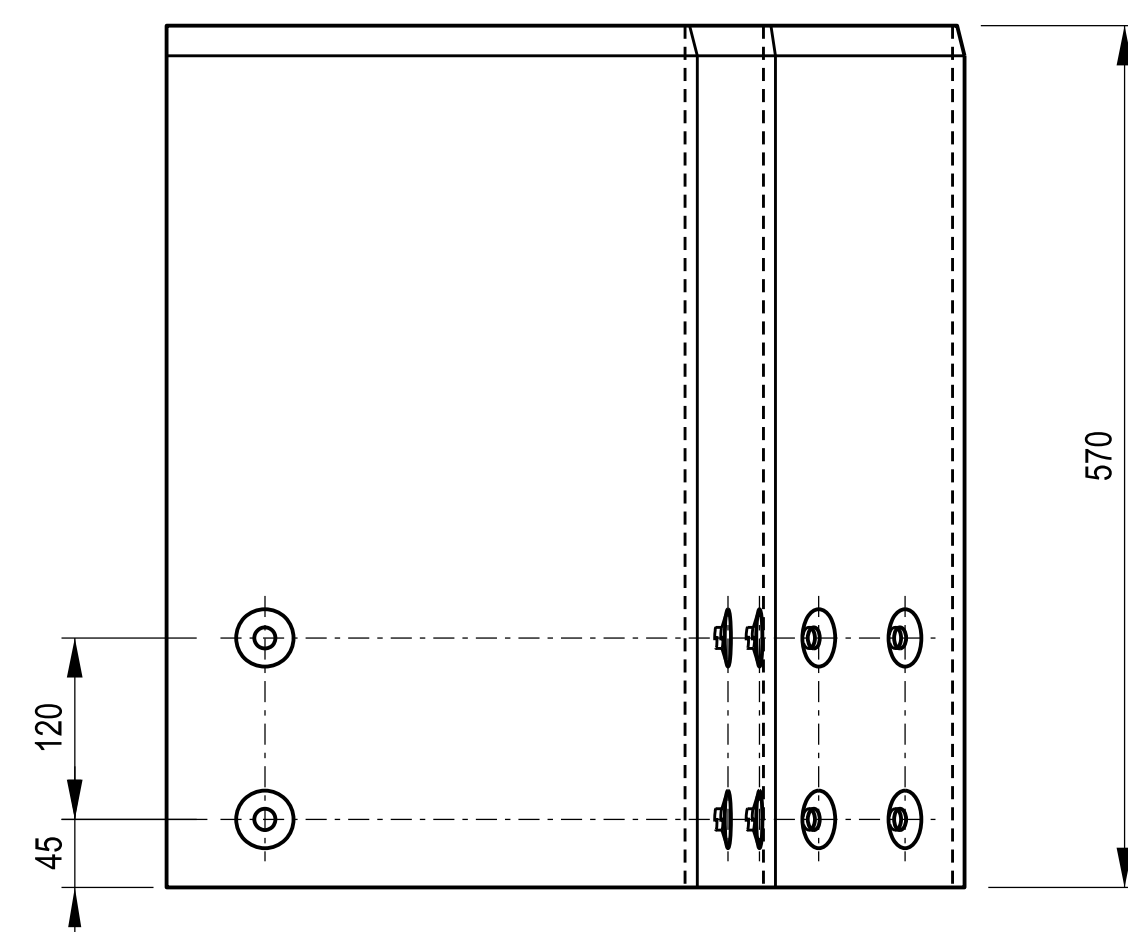




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	REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE												
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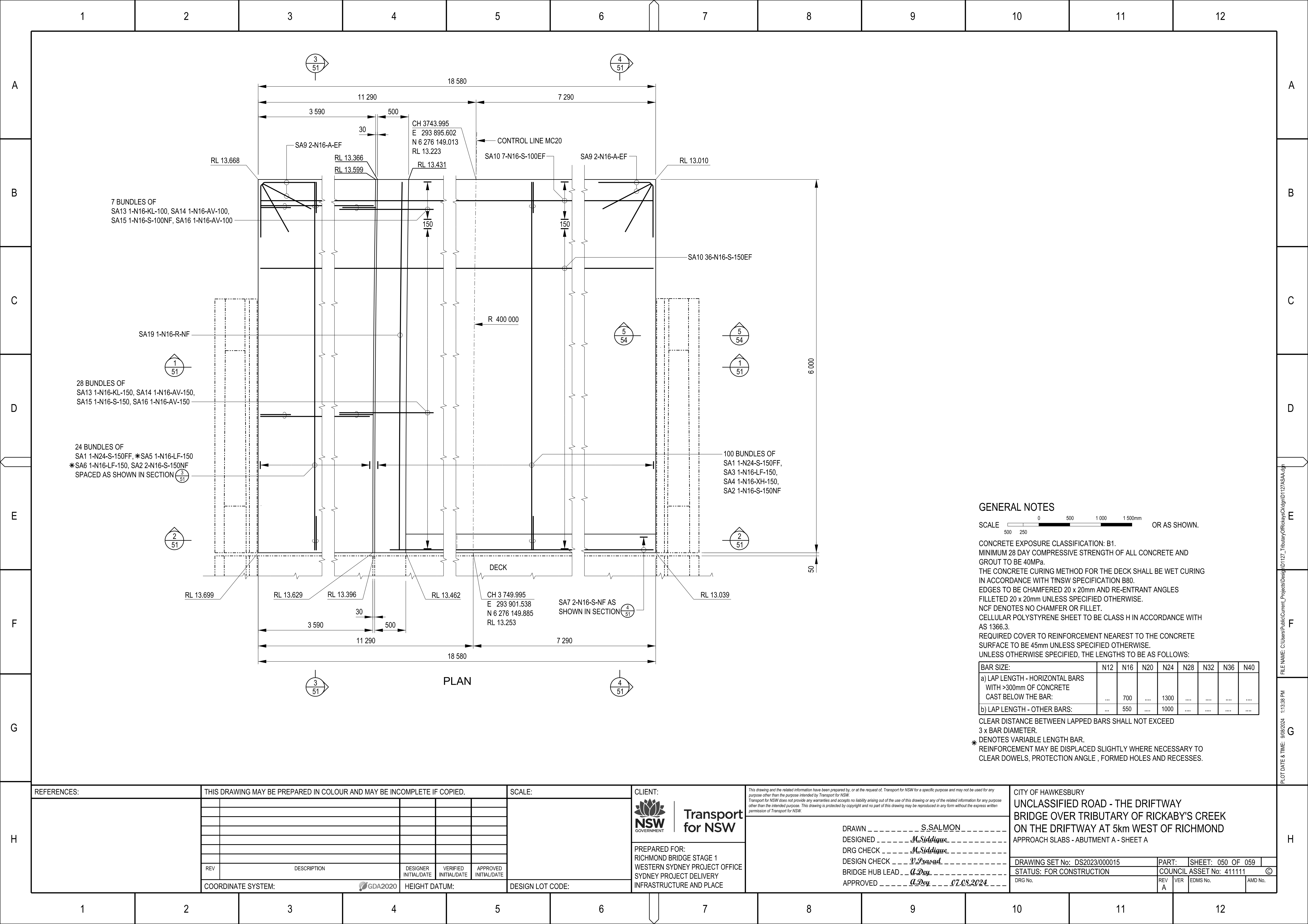
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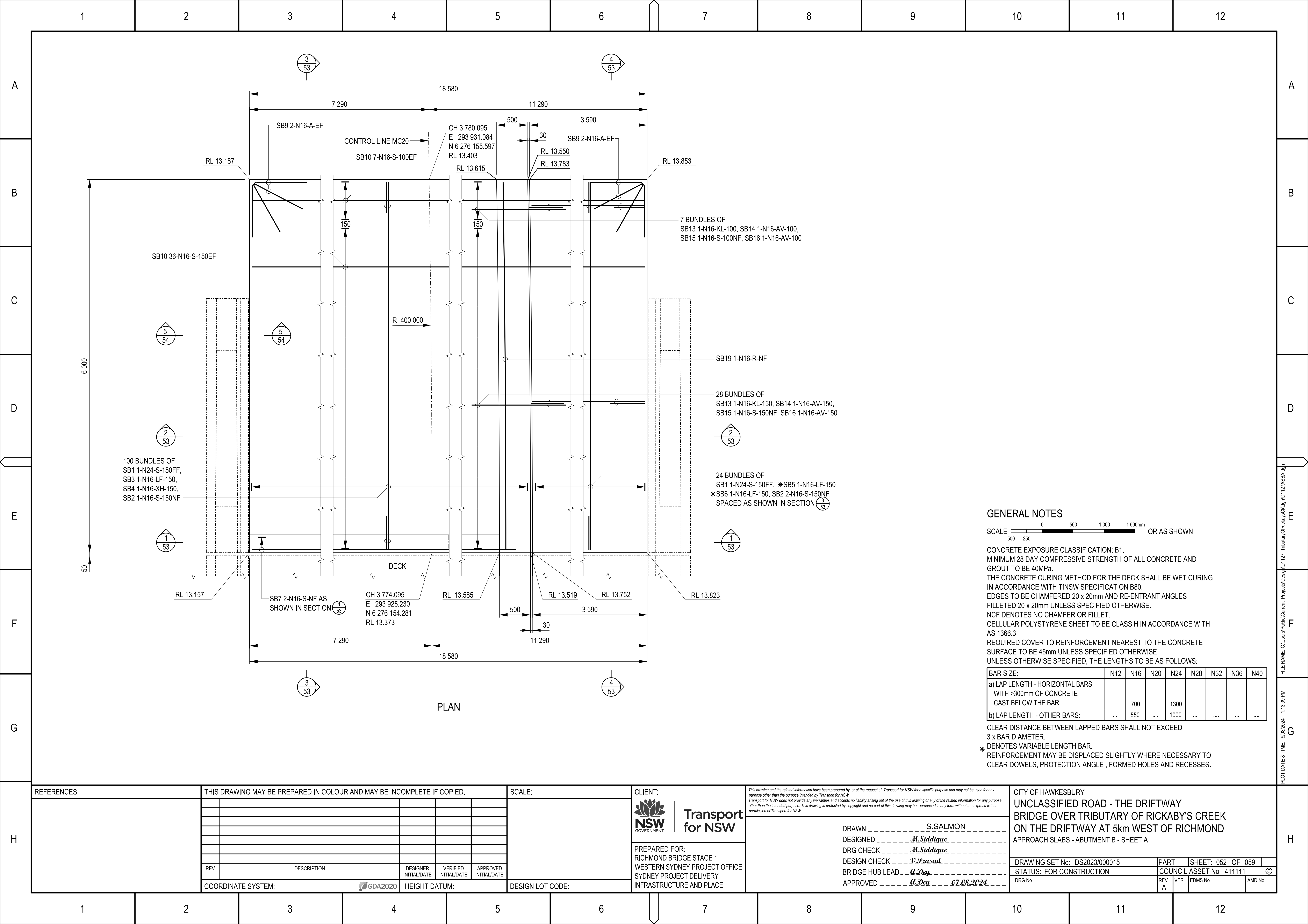
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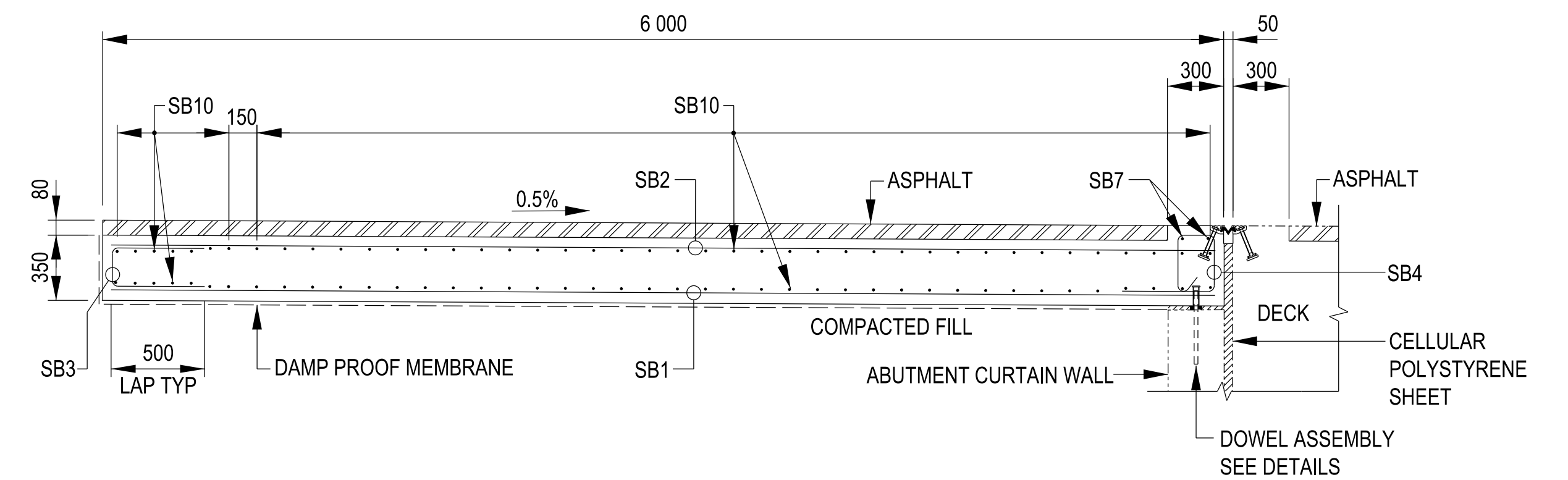
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FOR OTHER GENERAL NOTES RELATING TO THIS SHEET, SEE SHEET No 48.

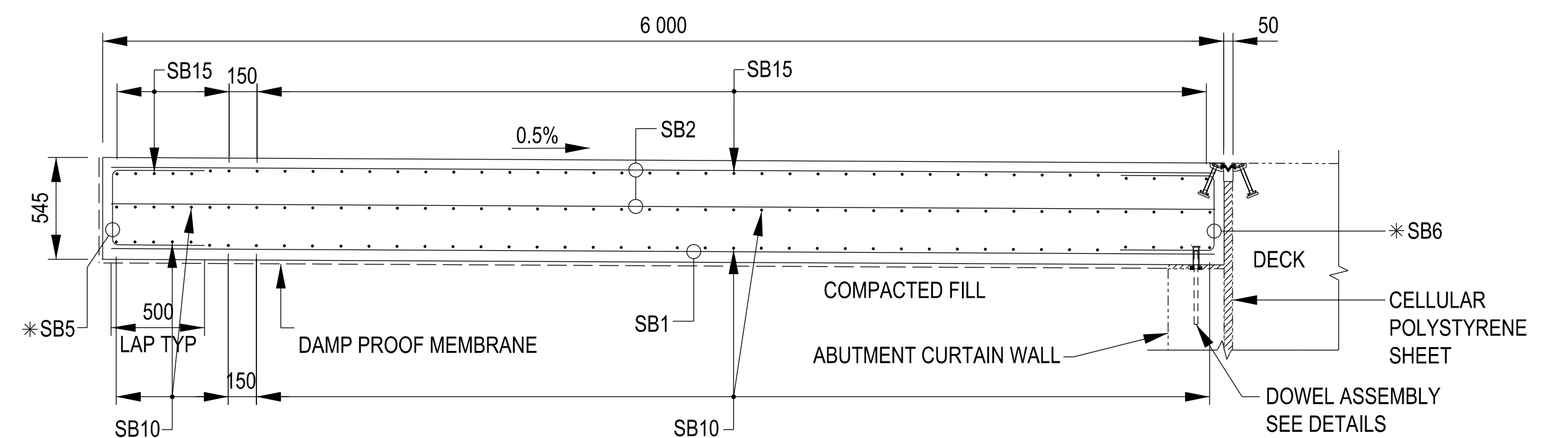
REFERENCES:	THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.					SCALE:	<div> Transport for NSW</div>	<div><small>This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW.</small></div>	CITY OF HAWKESBURY UNCLASSIFIED ROAD - THE DRIFTWAY BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK ON THE DRIFTWAY AT 5km WEST OF RICHMOND DECK JOINTS AND COVER PLATES - SHEET C
REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE					
COORDINATE SYSTEM:				HEIGHT DATUM:	DESIGN LOT CODE:	PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE			
						DRAWN _____ S.SALMON _____ DESIGNED _____ M.Siddique _____ DRG CHECK _____ M.Siddique _____ DESIGN CHECK _____ V.Prasad _____ BRIDGE HUB LEAD _____ A.Dey _____ APPROVED _____ A.Dey _____ 07.08.2024			
					DRAWING SET No: DS2023/000015		PART:	SHEET: 049 OF 059	
					STATUS: FOR CONSTRUCTION		COUNCIL ASSET No: 411111		©
		REV A		VER	EDMS No.		AMD No.		








SECTION 3
52

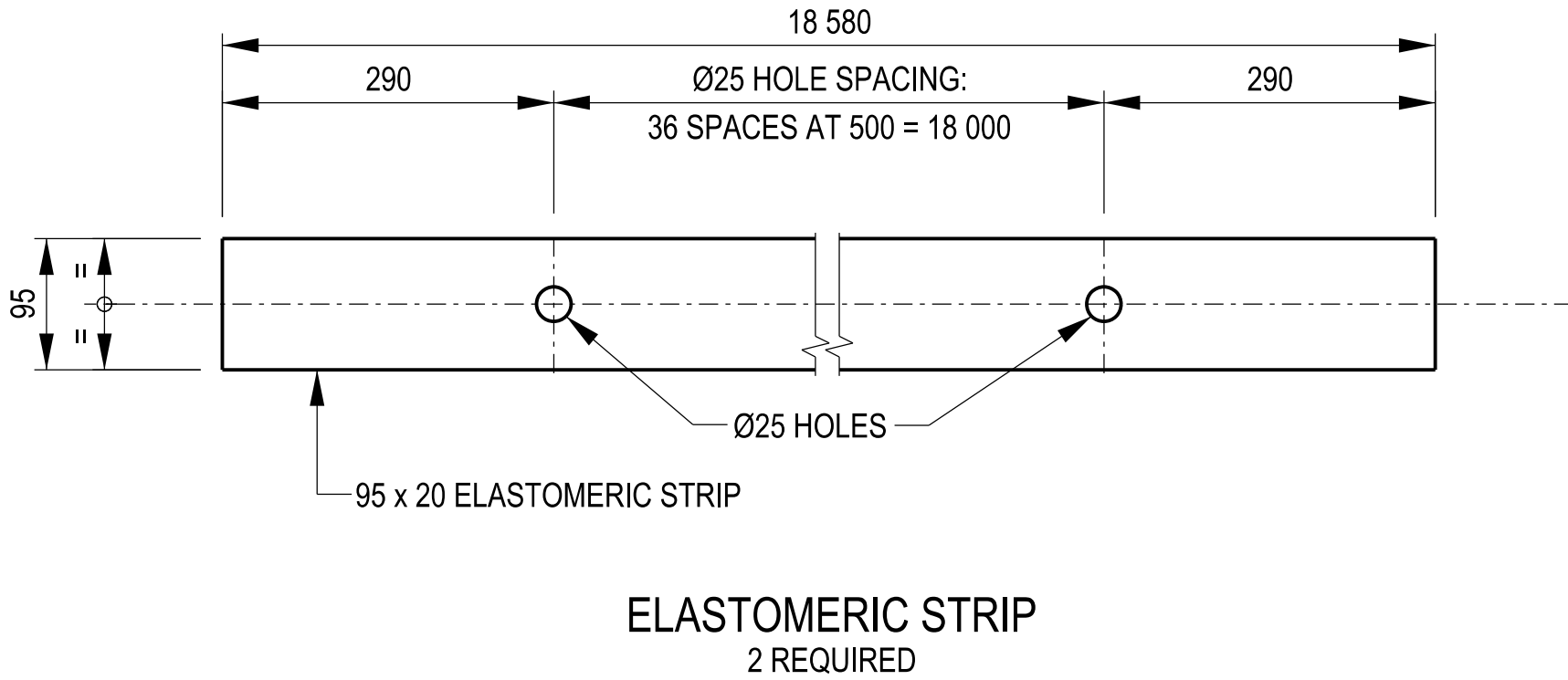
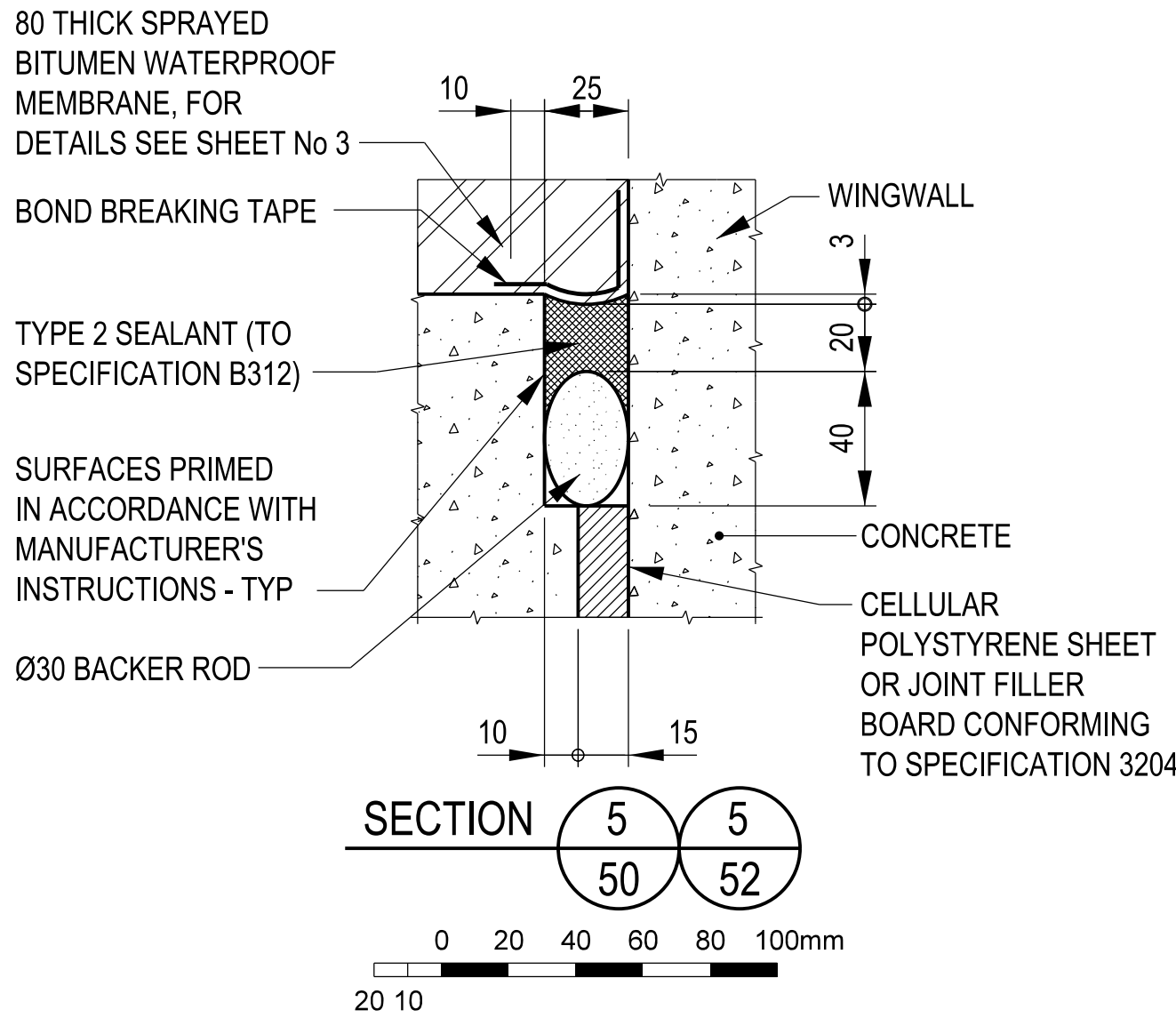
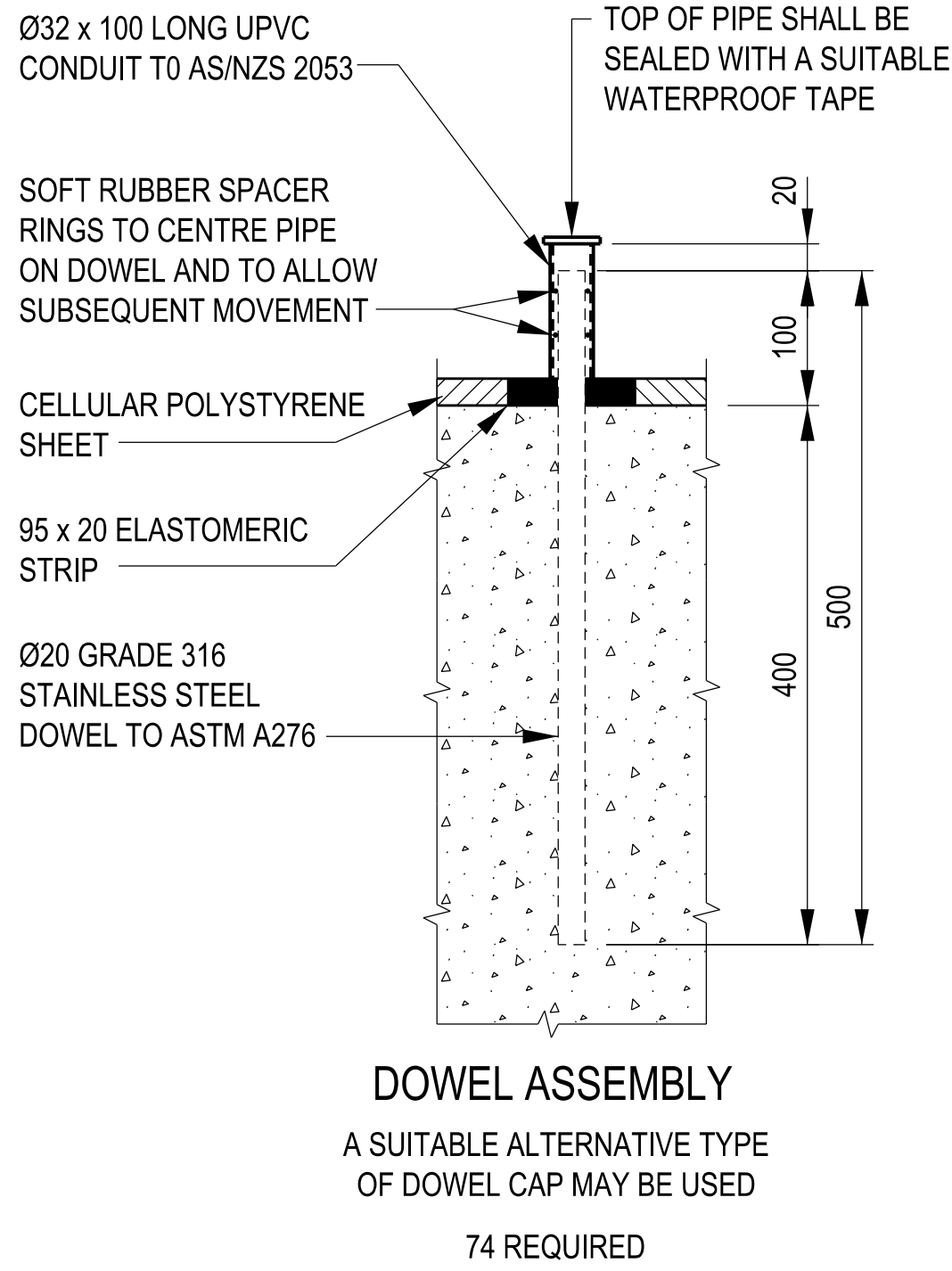
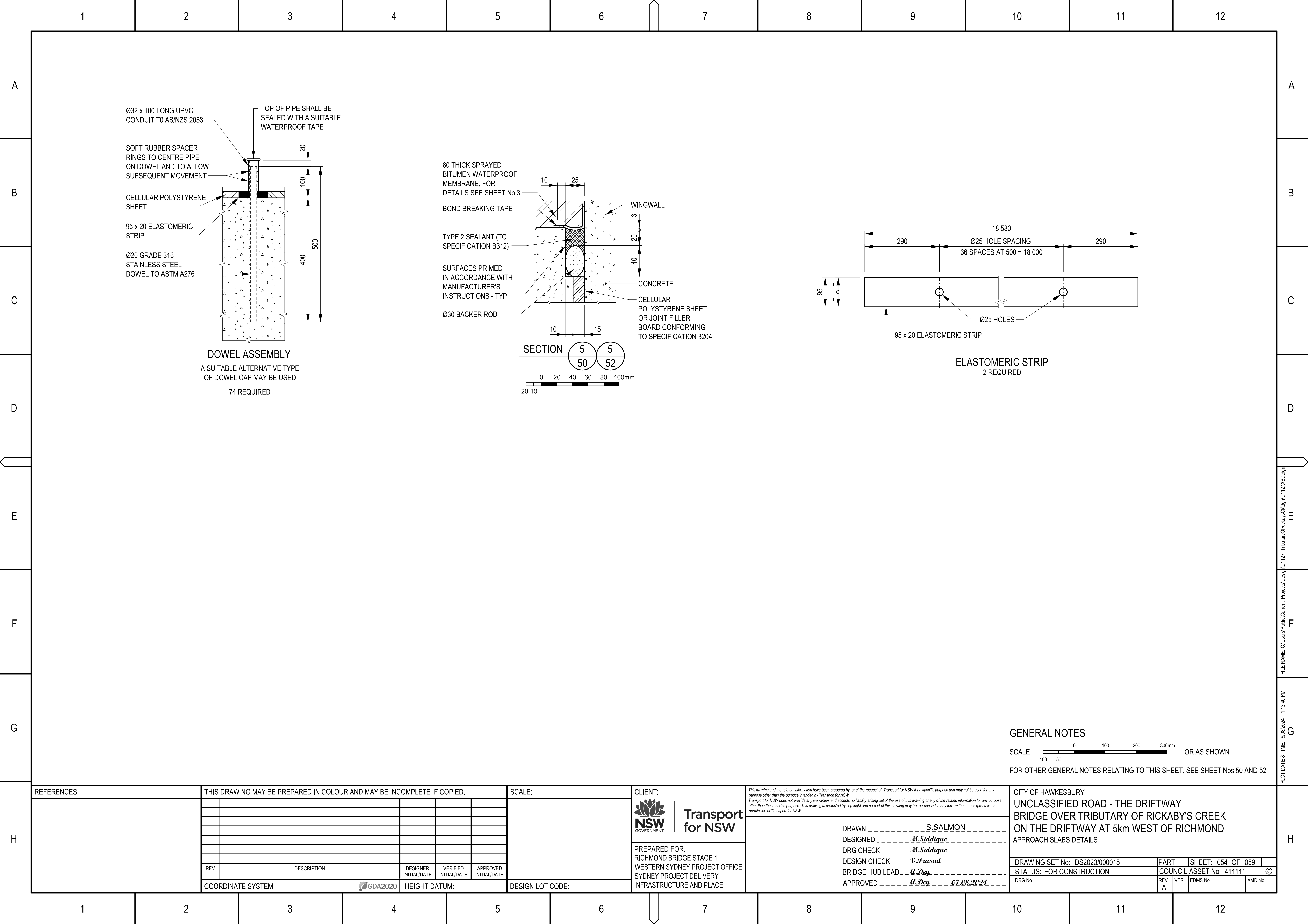


SECTION 4
52

SCALE  OR AS SHOWN

G



4

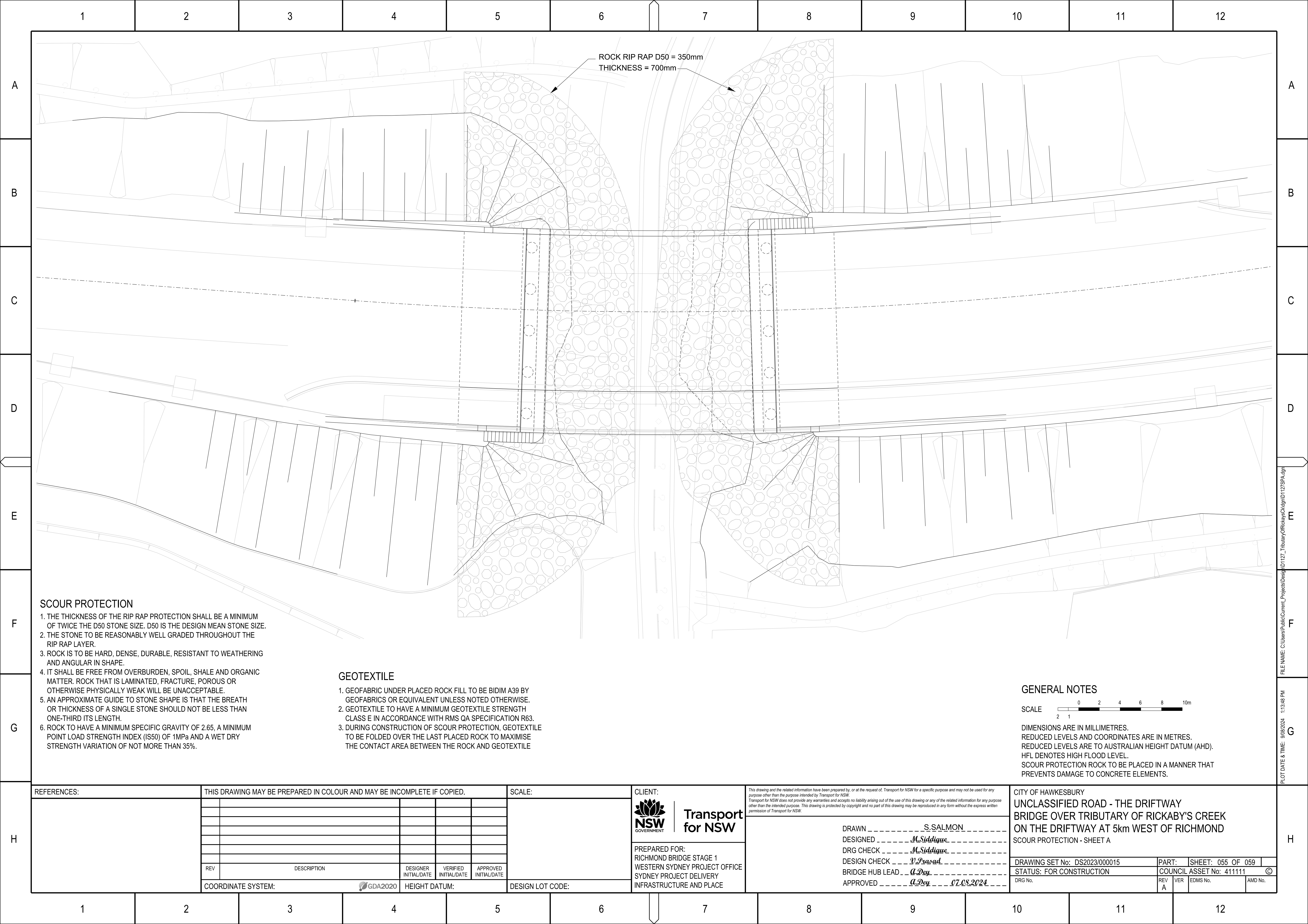


GENERAL NOTES

SCALE 100 50 0 100 200 300mm OR AS SHOWN

FOR OTHER GENERAL NOTES RELATING TO THIS SHEET, SEE SHEET Nos 50 AND 52.

REFERENCES:		THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.					SCALE:		CLIENT:		<div>This drawing and the related information have been prepared by, or at the request of, Transport for NSW for a specific purpose and may not be used for any purpose other than the purpose intended by Transport for NSW. Transport for NSW does not provide any warranties and accepts no liability arising out of the use of this drawing or any of the related information for any purpose other than the intended purpose. This drawing is protected by copyright and no part of this drawing may be reproduced in any form without the express written permission of Transport for NSW.</div> <div>DRAWN _____ S.SALMON _____ DESIGNED _____ M.Siddique _____ DRG CHECK _____ M.Siddique _____ DESIGN CHECK _____ V.Prasad _____ BRIDGE HUB LEAD _____ A.Dey _____ APPROVED _____ A.Dey _____ 07.08.2024 _____</div>					
										<div> Transport for NSW</div> <div>PREPARED FOR: RICHMOND BRIDGE STAGE 1 WESTERN SYDNEY PROJECT OFFICE SYDNEY PROJECT DELIVERY INFRASTRUCTURE AND PLACE</div>						
												CITY OF HAWKESBURY UNCLASSIFIED ROAD - THE DRIFTWAY BRIDGE OVER TRIBUTARY OF RICKABY'S CREEK ON THE DRIFTWAY AT 5km WEST OF RICHMOND APPROACH SLABS DETAILS				
												DRAWING SET No: DS2023/000015		PART:	SHEET: 054 OF 059	
												STATUS: FOR CONSTRUCTION		COUNCIL ASSET No: 411111 ©		
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COORDINATE SYSTEM: 						HEIGHT DATUM:		DESIGN LOT CODE:								



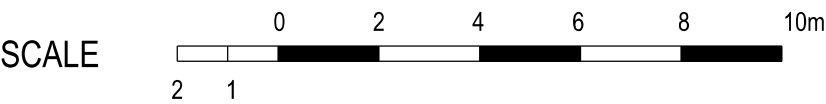
SCOUR PROTECTION

1. THE THICKNESS OF THE RIP RAP PROTECTION SHALL BE A MINIMUM OF TWICE THE D50 STONE SIZE. D50 IS THE DESIGN MEAN STONE SIZE.
2. THE STONE TO BE REASONABLY WELL GRADED THROUGHOUT THE RIP RAP LAYER.
3. ROCK IS TO BE HARD, DENSE, DURABLE, RESISTANT TO WEATHERING AND ANGULAR IN SHAPE.
4. IT SHALL BE FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATTER. ROCK THAT IS LAMINATED, FRACTURE, POROUS OR OTHERWISE PHYSICALLY WEAK WILL BE UNACCEPTABLE.
5. AN APPROXIMATE GUIDE TO STONE SHAPE IS THAT THE BREATH OR THICKNESS OF A SINGLE STONE SHOULD NOT BE LESS THAN ONE-THIRD ITS LENGTH.
6. ROCK TO HAVE A MINIMUM SPECIFIC GRAVITY OF 2.65, A MINIMUM POINT LOAD STRENGTH INDEX (IS50) OF 1MPa AND A WET DRY STRENGTH VARIATION OF NOT MORE THAN 35%.

GEOTEXTILE

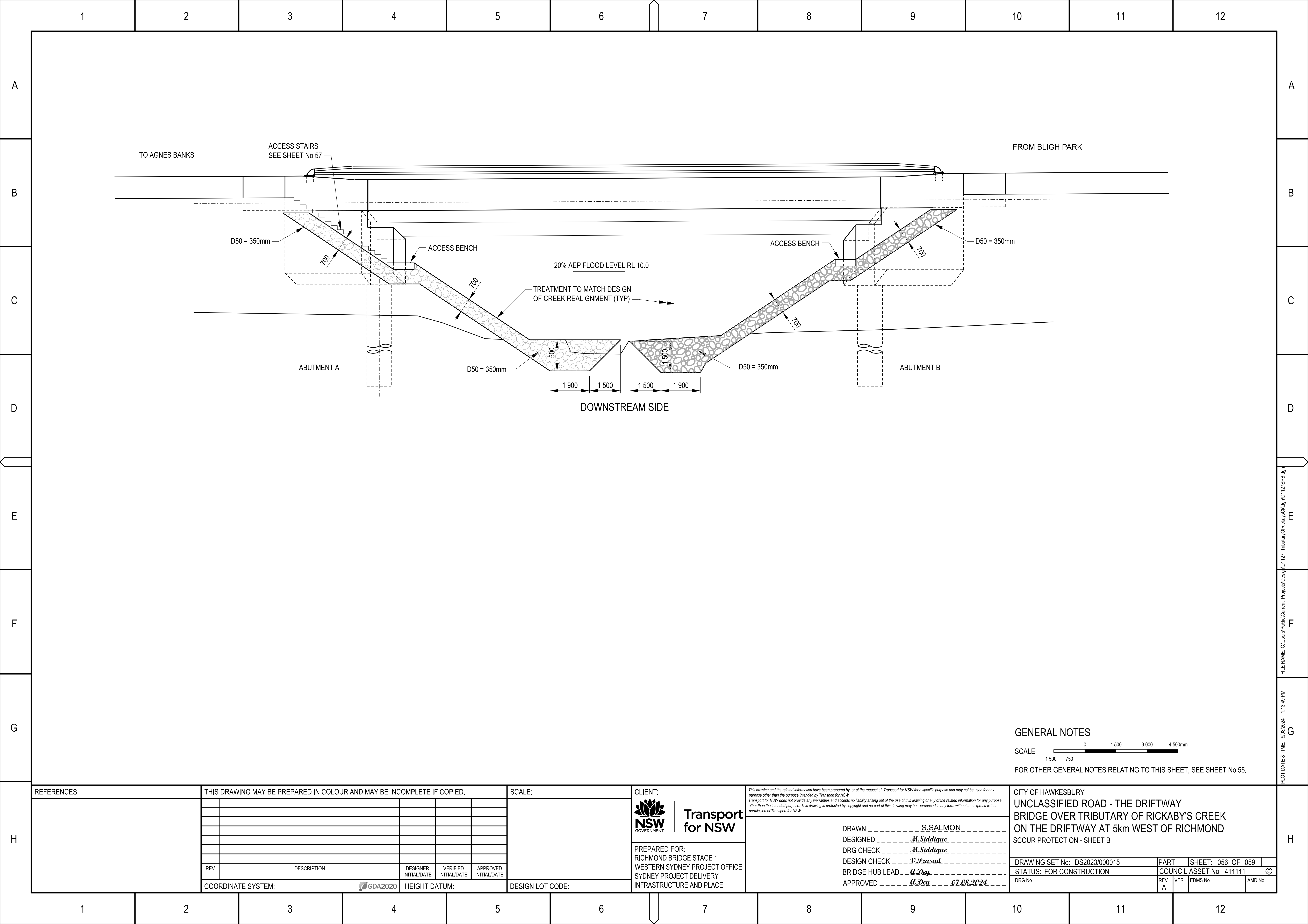
1. GEOFABRIC UNDER PLACED ROCK FILL TO BE BIDIM A39 BY GEOFABRICS OR EQUIVALENT UNLESS NOTED OTHERWISE.
2. GEOTEXTILE TO HAVE A MINIMUM GEOTEXTILE STRENGTH CLASS E IN ACCORDANCE WITH RMS QA SPECIFICATION R63.
3. DURING CONSTRUCTION OF SCOUR PROTECTION, GEOTEXTILE TO BE FOLDED OVER THE LAST PLACED ROCK TO MAXIMISE THE CONTACT AREA BETWEEN THE ROCK AND GEOTEXTILE

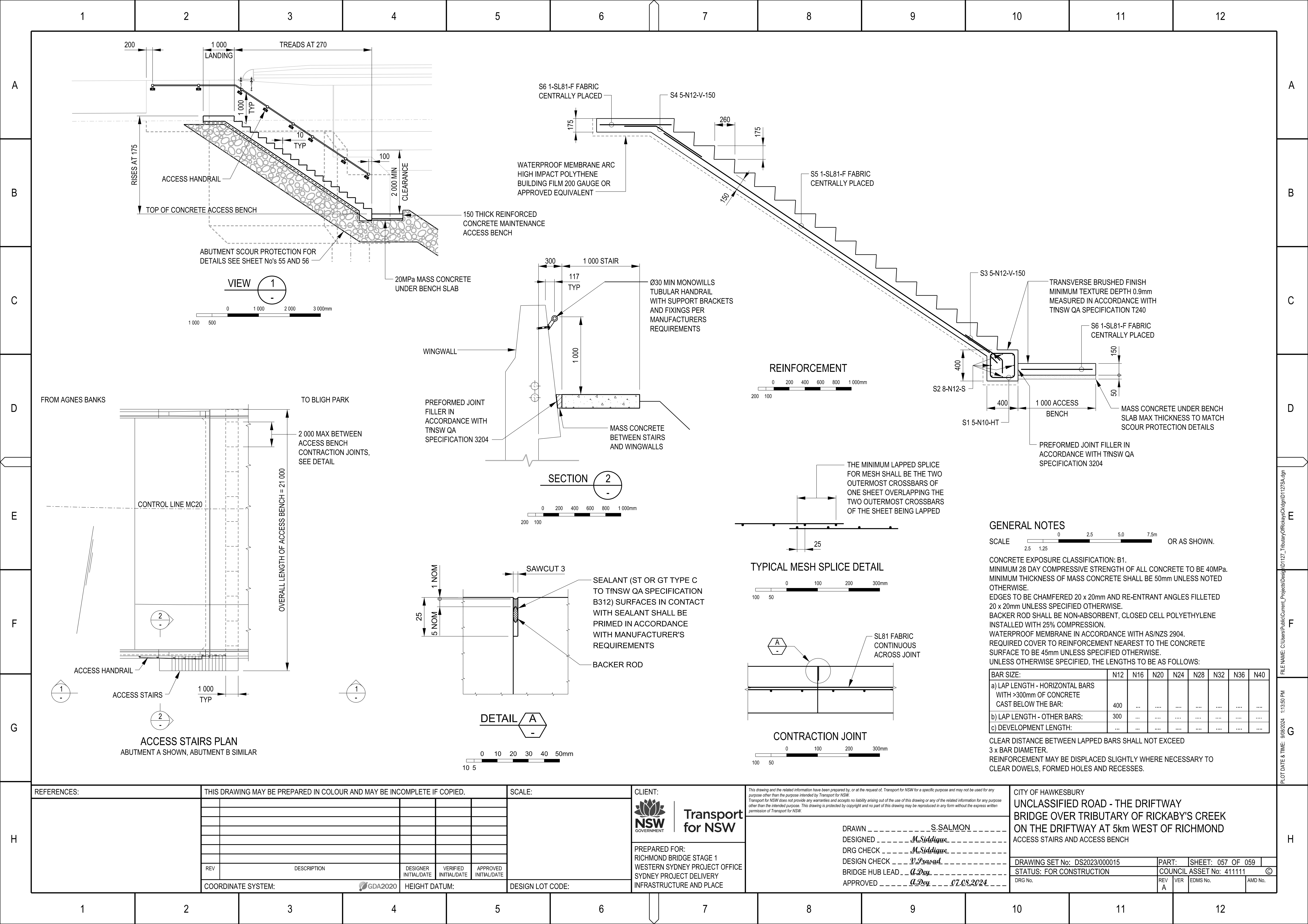
GENERAL NOTES



DIMENSIONS ARE IN MILLIMETRES.
REDUCED LEVELS AND COORDINATES ARE IN METRES.
REDUCED LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
HFL DENOTES HIGH FLOOD LEVEL.
SCOUR PROTECTION ROCK TO BE PLACED IN A MANNER THAT PREVENTS DAMAGE TO CONCRETE ELEMENTS.

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										DRAWN _____ <u>S.SALMON</u> _____		
										DESIGNED _____ <u>M.Siddique</u> _____		
										DRG CHECK _____ <u>M.Siddique</u> _____		
										DESIGN CHECK _____ <u>V.Prasad</u> _____		
										BRIDGE HUB LEAD _____ <u>A.Dey</u> _____		
										APPROVED _____ <u>A.Dey</u> _____ <u>07.08.2024</u> _____		





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