

CITY OF MORETON BAY

BR01 - CABOOLTURE RIVER BRIDGE

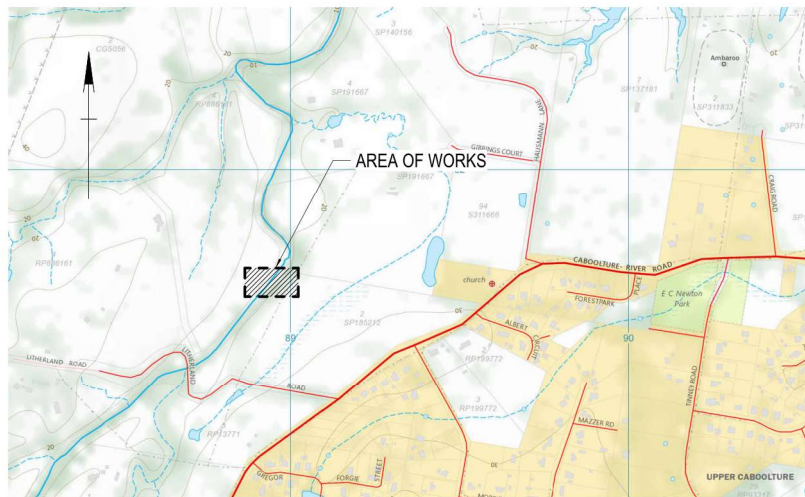


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PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



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Project No. 01099
Drawing No. 01099-RFA-BR01-DRG-01000
Series Number DI-01 of 1 REV B

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	
A	Issued for Construction			01/09/2025		Datum GDA2020		B. Humphries	K. Cheng	CITY OF MORETON BAY	
B	Amended drawing index			02/04/2026		Horiz. Datum MGA Zone 56 (Local Grid)		Checked: L. O'Driscoll	Verified: T. Ford	BR01 - CABOOLTURE RIVER BRIDGE	
						Height Datum AHD Derived		Approved: K. Cheng		DRAWING INDEX AND LOCALITY PLAN	
						Survey Books	Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise	ON BEHALF OF RED FOX ADVISORY RPEQ. 35109 Date: 28/08/2025			

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1. These drawings shall be read in conjunction with all contract documents, including Transport and Main Roads Technical Specifications, and such other written instructions as may be issued during the course of the Contract. Any discrepancies shall be referred to the Project Manager for clarification before proceeding with Work.
2. All materials and workmanship shall be in accordance with the relevant Australian Standards codes, Standard Specifications and with the by-laws and ordinances of the relevant authorities except where varied by the Project Supplementary Specification.
3. The Bridge has been set out based on the existing feature survey provided by Stockland.
4. The Contractor shall be responsible for identifying all existing services prior to the commencement of Works. Any existing services shown on the drawings are indicative only.
5. The Contractor shall be responsible for checking or obtaining all dimensions relevant to setting out of site works.
6. The Contractor shall be responsible for maintaining the stability of the works during all stages of construction (and demolition/decommissioning) and to ensure no part is overstressed or unstable. The design and certification of all temporary works, formwork, back propping and demolition methodologies is the responsibility of the Contractor, (refer to concrete notes for stripping procedures for in-situ concrete).
7. Proprietary products nominated shall be installed in accordance with the manufacturer's requirements, unless noted otherwise on the drawings. The proprietary products nominated may be substituted for an alternative equivalent product as approved by the Project Manager.
8. **EARTHWORKS**
 - a. All embankments for bridges with spillthrough abutments to be in place to soffit of the abutment headstock prior to installation of piles. No filling around piles is permitted.
 - b. No filling to be placed above the soffit of the abutment headstock until at least 7 days after erection of the end span, unless otherwise approved by the Designer.
 - c. Compaction loads behind abutment headstock shall be limited to 20kPa.
9. **DATE PLATE**
 - a. A date plate is to be cast into the top of the left-hand wingwall of Abutment A.
 - b. For date plate details, refer MRSD 2005.
10. **PSM – PERMANENT SURVEY MARK**
 - a. A permanent survey mark is to be cast into the top of the left-hand wingwall of Abutment A.
11. **TRADE NAMES**
 - b. Trade names have been used for a particular product requirement, but equivalent products may be submitted for approval.
 - c. Any geometric discrepancies in the construction of the bridge and adjacent roadworks shall be referred to the Designer.
 - d. Fill materials and placement shall be tested and placed in accordance with MRTS04.

1. Heights, chainages and co-ordinates are all in metres.
2. All other dimensions are in millimetres, UNO.
3. All heights are to Australian Datum GDA2020.
4. Dimensions shall not be scaled from drawings.
5. SUBSTRUCTURE HEIGHTS
 - a. Substructure levels have been calculated based on the 100 day Deck Units design hog less deflection resulting from the dead load of wet concrete.
 - b. If the actual hog differs from the anticipated 100 day hog, the bearing pedestal heights may need to be adjusted. Refer to girder placement notes on drg. GI-01
 - c. Should the measured hog value fall outside of the tolerances shown on the drawings then an adjustment to the bridge is required at the location. This adjustment shall be carried out in consultation with the design engineer and with the approval of the Project Manager.
 - d. The expected variance in the Design Drawings have been calculated to account for the potential variability associated with the calculation of design hog for vertical setup purposes only. These tolerances are separate to and independent of the tolerance limits stated in the acceptance criteria in MRTS73.

1. The design base has been carried out in accordance with the following standards:

STANDARD REFERENCE	STANDARD TITLE
AS1170.0	Structural design actions General principles
AS1170.1	Structural design actions Permanent, imposed and other actions
AS1170.2	Structural design actions, Part 2: Wind actions
AS1554	Structural steel welding
AS2159	Piled Footings Design & Installation
AS3600	Concrete Structures, steel & tendons
AS4360	Risk Management
AS5100	Bridge Design

2. Any additional design or design alterations are to be carried out in accordance with these standards as approved by the Designer/Administrator.
3. Fabrication and construction including tolerances is to be carried out in accordance with the requirements of the Contract Documents.



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1. The typical project specifications are listed in the table below. Additional and/or supplementing specifications are included in the Contract Documentation.
2. The Contractor shall comply with all hold and witness points in the Specifications. Hold and witness points listed in the drawings are additional to those listed in the specifications.
3. Where there is a conflict between an Australian Standard and the referenced TMR Technical Specification or referenced TMR Standard Drawing, the specification and standard drawing shall take precedence.

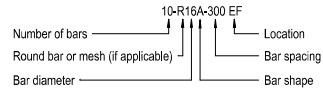
REFERENCED TMR STANDARD DRAWINGS		
Drg. No.	Drawing Title	Issue
1043	Reinforcing steel - Standard bar shapes - Drawing 1 to 4	Q
1044	Reinforcing steel - Lap Lengths	L
2005	Standard bridge date plate - General details	A
2200	Bridge traffic barriers - Post and rail traffic barriers - Regular performance level	E
2242	Abutment protection - Type 8 - Riprap protection - Height up to 6 Metres	B
2256	Bridge approaches - Relieving slab 6m Span	D

REFERENCED TMR TECHNICAL SPECIFICATIONS		
Name	Title	Issue
MRTS01	Introduction to Technical Specifications	March 2024
MRTS03	Drainage, Retaining Structures and Protective Treatments	July 2021
MRTS04	General Earthworks	June 2023
MRTS27	Geotextiles (Separation and Filtration)	November 2020
MRTS62	Bridge Substructure	November 2023
MRTS63	Cast-in-Place Piles	November 2020
MRTS70	Concrete	July 2022
MRTS71	Reinforcing Steel	March 2023
MRTS72	Manufacture of Precast Concrete Elements	July 2019
MRTS73	Manufacture of Prestressed Concrete Members and Stressing Units	July 2019
MRTS75	Supply and Erection of Prestressed Concrete Girders	November 2018
MRTS77	Bridge Deck	July 2019
MRTS78	Fabrication of Structural Steelwork	November 2020
MRTS78A	Fabrication of Structural Stainless Steelwork	November 2020
MRTS81	Bridge Bearings	November 2020
MRTS82	Bridge Deck Expansion Joints	July 2021
MRTS82A	Finger Type Bridge Deck Expansion Joints	July 2017
MRTS84	Deck Wearing Surface	July 2019
MRTS91	Conduits and Pits	July 2024
MRTS170	Public Utilities in Road Projects Site Works	July 2023
MRTS278	Supply of Structural Fasteners	November 2020

4. All relative levels are based in Australian height datum (AHD). Heights, chainages and co-ordinates are all in meters.
5. All other dimensions are in millimeters unless stated otherwise.
6. All coordinates are local coordinates based on GDA2020, MGA Zone 56. Refer to survey control located in Exhibit B for coordinate set out.

1. Concrete works and materials shall be in accordance with AS5100 and the specification for concrete MRTS70, unless noted otherwise on the drawings. In the event of a conflict between AS5100 and MRTS70, MRTS70 shall take precedence.
2. Refer specification for concrete MRTS70 for hold and witness points, unless noted otherwise on the drawings.
3. All thickness shown are minimum structural requirements. No reduction in thickness is permitted with the exception of dimensional tolerances in accordance with AS5100.
4. Construction joints shall be properly formed, scabbled and cleaned in accordance with the specification for concrete MRTS70 and shall only be located where shown on the drawings or as approved by the Project Manager.
5. Construction joint shown on drawings may be omitted to allow for ease of construction.
6. Penetrations, chases and embedments in concrete elements shall only be located where shown on the drawings or approved by the Designer.
7. Conduits cast-in concrete members shall only be located where shown on the drawings or approved by the Project Manager. Conduits to maintain required cover, including to adjacent reinforcement.
8. Concrete surface finishes shall be in accordance with the IPWEA Std. drawings and RS-065 for pathways.
9. The characteristic compressive strength (f_c) at 28 days of in place concrete shall be as noted on the drawings and in these notes.
10. Reinforcement shall be in accordance with AS/NZS 4671 and the specification for reinforcement MRTS71.
11. Splicing of helical reinforcement within its length shall be in accordance with MRSD 1044 UNO.
12. Minimum hooks, cogs and reinforcement bar shapes shall be as detailed on MRSD 1043 UNO.
13. Laps and other splices in reinforcement shall only be made at the positions shown on the drawings unless alternative or extra locations are approved in writing by the Project Manager.

14. Side and end laps in welded mesh reinforcement shall be in accordance with AS 5100.5:2017 Clause 13.2.3.
15. Reinforcement to be hot dipped galvanised to MRTS71 Reinforcing Steel where shown.
16. Tack welding for location purposes to MRTS71 Reinforcing Steel.
17. Welding or reinforcement shall be in accordance with MRTS71 Reinforcement Steel.
18. Welding of reinforcement in prestressed super-T girders should be carried out prior to installation of strand. If this is not practical adequate measures to protect strand should be used.
19. Reinforcing is indicated by the following symbols:



20. Reinforcing steel details contained herein to be read in conjunction with MRSD 1043 and 1044. Bar development lengths shall be as per the lap table on MRSD 1044 unless noted otherwise.
21. Reinforcing steel to be in accordance with AS/NZS 4671 and MRTC'S1 Reinforcing Steel.
Deformed bars Grade D500N.
Round bars Grade R250N.
Welded wire reinforcing mesh (S/R/I) Grade 500L. S/R/I denotes plain, deformed, or indented mesh.
22. All carbon reinforcing steel to be ACRS (Australasian Certification Authority for Reinforcing and Structural Steels) certified.
23. Reinforcement to be hot dip galvanised to AS/NZS 4680 where shown.
24. Reinforcement spacing nominated on drawings is to assist the scheduler and steel fixer to assess total number of bars required. Where bars placed in accordance with the spacing nominated fouls with other structural requirements, preference is to be given to relocating bars by locally adjusting spacing to enable assembly of reinforcement to be completed. The Project Manager is to be notified in the event that reinforcement is required to be cut on site prior to continuing.
25. Splicing of reinforcement shall be made only where shown on the drawings or approved by the Project Manager.
26. Cover shall be as noted on the drawings and in these notes below.
27. Concrete covers noted are measured from the form work or ground face to the outermost reinforcement component, i.e in piles and beams to the outside of ties or ligatures.
28. Cover to be maintained during pouring by the use of chairs in accordance with the specification for concrete (MRTC'S70). All reinforcement bar chairs to conform to the requirements of AS/NZS 2425 and to have a minimum strength grade of 120kg. No tie wire reinforcement to protrude into the concrete cover.
29. Bending and straightening of reinforcing shall be in accordance with AS5100 and the specification for reinforcing steel (MRTC'S1).

CONCRETE ELEMENT	CONCRETE CLASS	EXPOSURE CLASSIFICATION	REINFORCEMENT COVER
Blinding concrete	N20/20	-	-
Abutments, Piers and Wingwalls	S40/20	B2	60 general, 90 at bottom
Super T-Girders*	S65/20	B2	40
Relieving slabs	S40/20	B2	60 general, 70 at bottom cast on blinding concrete or damp proof membrane
Insitu Deck and kerbs	S50/20	B2	60 45 underside of deck slab
Cast in-place Concrete Piles/ Column	S50/20	B2	80
Cross Girders	S65/10	B2	50
Bearing Pedestals and Restraint Blocks	S50/10	B2	50
In-situ Kerbs	S40/20	B2	60

*Concrete shall be cast in rigid forms and subject to intense vibrations.

The Class designation specifies the required Class and Grade to AS 1379:2007 and the nominal maximum aggregate size (mm).

30. CHAMFER AND FILLETS
31. Unless specifically noted otherwise on the drawings, all exposed concrete edges shall be provided with a 19 x 19mm fillet or chamfer as appropriate.
32. No penetrations, chases or temporary fixtures other than those shown on the structural drawings, are permitted in the concrete members without prior approval of the Administrator.
33. Monitoring of the temperature of concrete members shall conform to MRTS07 Clause 15.5 which limits the maximum internal and maximum differential temperatures.

1. Bearings shall comply with AS5100.4 and the specifications for bearings (MRTS81).
2. Bearings shall be installed in accordance with specifications MRTS81 and manufacturers requirements along with temperature requirements nominated on the drawing
3. Plain bearings pads and strips shall have a durometer hardness of IRHD = 60 ± 5.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales	Drawn: B. Humphries	Design: K. Cheng	Local Authority: CITY OF MORETON BAY	 redfox	
A	Issued for Construction			1/09/2025		Datum	GDA2020 <th>Checked: L. O'Driscoll</th> <th>Verified: T. Ford</th> <th>Project: BR01 - CABOOLTURE RIVER BRIDGE</th>		Checked: L. O'Driscoll	Verified: T. Ford	Project: BR01 - CABOOLTURE RIVER BRIDGE		
						Horiz. Datum	MGA Zone 56 (Local Grid)						
						Height Datum	AHD Derived						
						Survey Books							
							Original Drawing Size : A1			ON BEHALF OF RED FOX ADVISORY			
							Dimensions shown in millimetres except where shown otherwise		RPEQ: 35109	Date: 28/06/2025			
										Approved: K. Cheng		Drawing Title: GENERAL NOTES SHEET 1	Project No. 01099
												Drawing No. 01099-RFA-BR01-DRG-03000	
												Series Number NL-01 of 2	REV A

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1. All steelwork to be fabricated to the requirements of MRTS78.
2. All stainless steel to be fabricated to requirements of MRTS78A.
3. Hollow sections to be Grade C350L0 to AS/NZS 1163.
4. Steel plate to be Grade 350L0 minimum to AS/NZS 3678.
5. Hot rolled steel sections and flat bar to be Grade 300L0 to AS/NZS 3679.1.
6. Stainless steel sheet and plate to ASTM A240.
7. Stainless steel flat bar and round bar to ASTM A276.
8. All steelwork to be hot dip galvalised to AS/NZS 4680 after fabrication unless shown otherwise. Prior to galvanizing, all weld splatter and welding slag is to be removed.
9. All members to be branded with suitable type number after fabrication.
10. Parts of the structure which might collect water during construction shall have drainage holes in locations approved by the Project Manager.
11. Edges to be protective treated shall be rounded to a radius of 1.5mm unless noted otherwise.
12. Damaged galvanised surfaces shall be repaired with a suitable two pack organic zinc primer in accordance with MRT78.
13. Set screw Class 4.6 to AS 1111.
14. "Unbrako" screws Grade 10.9 to BS 4168 or approved equivalent.
15. "Unbrako" screws to be treated with anti-galling paint or tape prior installation.
16. Bearing restraint plates shall be supplied with a flatness tolerance across the width of the plate of 0.5mm and straightness of 0.05mm over 25mm in any direction. The terms of flatness and straightness are defined in AS1100.101.
17. Tapped holes to be tapped in accordance with table 1 of AS1214, UNO.

- Welding symbols to AS 1101.3.
2. All welds to be 6mm CFW unless noted otherwise.
3. **STRUCTURAL STEEL**
 - a. All welding to AS/NZS 1554.1
 - b. All welds, except location tack welds, to be SP category.
 - c. Welding consumables to be controlled hydrogen type G493 to AS/NZS ISO 14341-B, or T493 to AS/NZS ISO 17632-B, unless noted otherwise.
4. **REINFORCING STEEL**
 - a. Welding of bar splices to AS/NZS 1554.3.
 - b. All welds, except location tack welds, to be SP category.
 - c. Tack welding for location purposes to AS/NZS 1554.3.
 - d. Welding shall not be carried out within 110mm from any bent portion of the bar.
 - e. Welding consumables to be controlled hydrogen type G49x to AS/NZS ISO 14341-B, or T49x to AS/NZS ISO 17632-B, unless noted otherwise.
5. **STAINLESS STEEL**
 - a. All welding to AS/NZS 1554.6.
 - b. Weld quality - Category 2B.
 - c. Welding consumables to be 316L unless noted otherwise.
 - d. All stainless steel welding and consumables to comply with AS/NZS 1167.2 and/or AS/NZS 4854.

1. Commercial grade bolt assemblies to be:
 - a. Class 4.6 to AS1111
 - b. Nuts to be class 5 to AS 1112.1
 - c. Washers for class 4.6 bolts to AS 1237.1
 - d. Snug tightened to AS 5100.6
2. High strength assemblies to be:
 - a. Bolt class 8.8 to AS/NZS 1252
 - b. Nuts to be class 8 to AS/NZS 1252
 - c. Washers for class 8.8 bolts to be AS/NZS 1252
 - d. Snug tightened to AS 5100.6 unless shown otherwise
3. All bolts and nuts to be hot dip galvanised to AS 1214.
4. All washers to be hot dip galvanised to AS/NZS 4680 unless shown otherwise.
5. Stainless steel set screws to AS/NZS ISO 3506.3.
6. Unless noted otherwise, all bolts up to and including Ø24 shall be in 2mm clearance holes. All bolts larger than Ø24 shall be in 3mm clearance holes.
7. For supply of both nuts and washers, refer to MRTS 278.

Design Lanes:	2 design lanes
Design Loads - during construction	
Construction live loads:	0.5kPa on deck
2. Design to AS 5100-2017.	
3. Design speed:	60km/h
4. Design loads:	
a. Concrete unit weight (Including steel reinforcement):	25kN/m ³ (in-situ) 26kN/m ³ (precast)
b. Asphalt deck wearing surface allowance:	60mm maximum allowance including 10mm waterproofing membrane
c. Standard highway loading:	SM1600, HLP400 (Lateral positioning shown)
d. Shared Path Loading:	Maintenance vehicle wheels shall be located to be within 2m from the edge of the median kerb. Maximum vehicle weight of 4.5t and maximum wheel load of 20kN is allowed.
e. Shared Path Loading:	4kPa Pedestrian Live Load
f. Dynamic load allowance:	In accordance with AS5100.2-2017, Table 7.7.2
g. Braking load:	720 kN
h. Minimum lateral restraint load:	500 kN
i. Design wind:	Wind region B1 V20 = 37m/s, V2000 = 61m/s.
j. Earthquake criteria:	Classification : BEDC-2, Damage Control Performance Level, Site Subsoil Class - Class Ce
k. Hazard factor:	0.08
l. Bridge temperature ranges:	+48°C, +5°C
Average bridge temperature:	23°C for setting bearing and expansion joints and for setting grout for deck unit anchorages bars.
m. Barrier performance level:	Regular performance barrier loading
n. Differential settlement:	10mm between adjacent piers or abutment
o. Flood loads:	

* Abutment and pier velocities represent the worst case location.

Design depth of debris mat: 3m

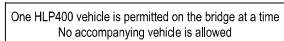
Scour allowance at headstocks:

	▲▲▲▲▲
--	-------

p. Embellishment load allowance: 5kN/m to southern deck edge

5. Thrust blocks for utility services are located outside at a minimum distance of 50m away from all corners of the bridge structure.

1. Carry out required excavation for embankment construction.
2. Construct embankments.
3. Construct cast-in-place piles.
4. Construct columns, headstocks and wingwalls.
5. Erect the PSC girders in accordance with MRTS75. The design requires that the girders be installed at not less than 30 days of age.
6. Construct cross girders.
7. Backfill the abutment headstocks and construct relieving slabs. Backfilling to occur at not less than seven (7) days after casting the cross girders, and shall be undertaken in a manner such that the fill depth at the two opposing abutments does not vary by more than 600mm.
8. Cast the deck slab and complete the bridge deck including barriers in accordance with MRTS77. The deck slab shall be cast at no more than one hundred and fifty (150) days after casting the girders.
9. Construct kerbs and shared pathway. Attach barriers and lay DWS.
10. Construct abutment protection and stairs.



TYPICAL DECK CROSS SECTION

LIMITS OF HLP400 EXTENTS

Scale NTS

Design:	K. Chang
---------	----------

Local Authority:

1. Abbreviation used throughout the set are as follows:

Abut.	Abutment
AHD	Australian Height Datum
AEP	Annual exceedance probability
CFW	Continuous fillet weld
CIP	Cast in place
CJ	Construction joint
COS	Confirm on site
CRS	Centres
Dia	Diameter
DICL	Ductile iron cement lined
DN	Nominal diameter
DWS	Deck Wearing Surface
EGL	Approximate existing ground level
EJ	Expansion Joint
ESL	Approximate existing surface level
FSL	Finished surface level
galv	Hot dipped galvanised
Ht	Height to Australian Height Datum
HLP	Heavy Load Platform
LS	Link Slab
max	Maximum
min	Minimum
MRTS	Queensland Government Department of Transport and Main Roads Technical Specifications
MRSD	Queensland Government Department of Transport and Main Roads Standard Drawing
MSCL	Mild steel cement lined
NA	Not applicable
NCF	No chamfer nor fillet
nom	Nominal
NSOP	Not shown on plan
NSOE	Not shown on elevation
NTS	Not to Scale
OAE	Or approved equivalent
PSC	Pre-stressed concrete
PVC	Polyvinyl chloride
R	Radius
RC	Reinforced concrete
Shd	Shoulder
SOP	Selout point
SQ	Square
SS	Stainless Steel
SWTC	Scope of Works and Technical Standards
TEC	Threatened Ecological Communities
thk	Thick
TMR	Queensland Government Department of Transport and Main Roads
TOC	Top of concrete
Typ	Typical note for this drawing
UNO	Unless noted otherwise
WPM	Waterproof membrane



Scale NTS

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales	Drawn:	Design:	Local Authority: CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE Drawing Title: GENERAL NOTES SHEET 2	 redfox		
A	Issued for Construction			1/09/2025		Datum	GDA2020		Checked:	Verified:			Project:	
B	Re-Issued for Construction			27/02/2026		Horiz. Datum	MGMA Zone 56 (Local Grid)		L. O'Driscoll	T. Ford				
						Height Datum	AHD Derived		Approved:	K. Chang 				Drawing Title:
						Survey Books	Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise		ON BEHALF OF RED FOX ENGINEERING RPE/Q. 35109 Date: 29/08/2025					

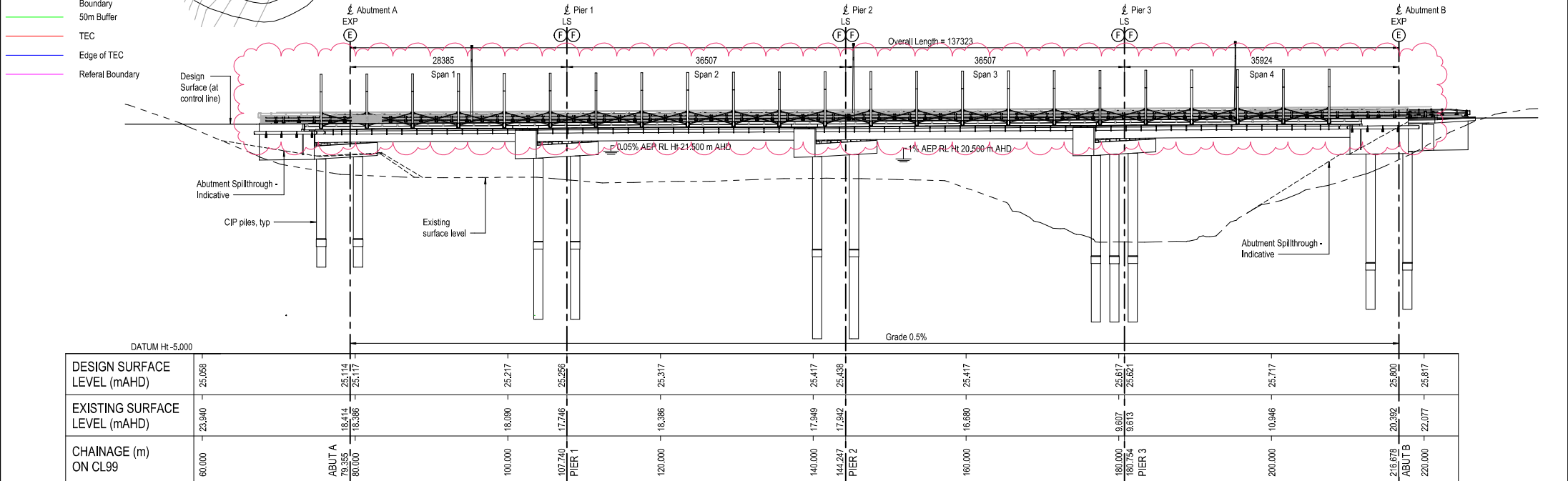
Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-03001
Series Number	NL-02 of 2
REV	B

ISSUE FOR CONSTRUCTION

12/06/2026 5:16:41 PM

LEGEND

- Residential Development Boundary
- 50m Buffer
- TEC
- Edge of TEC
- Referal Boundary



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



ELEVATED LONGITUDINAL SECTION ALONG BRIDGE CONTROL

Scale A

LEGEND

- (E) Denotes Expansion End
- (F) Denotes Fixed End
- EXP Denotes Expansion Finger Joint
- LS Denotes Link Slab

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For Borehole Schedule, refer to Series No. GE-01.
- For SOP locations, refer to Series No. GE-01.

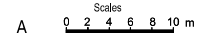
Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			01/09/2025
B	Amended to show Vent Pipe			02/04/2026
C	Embellishments added			12/06/2026



Stockland

Client:

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	



Original Drawing Size: A1
Dimensions shown in millimetres except where shown otherwise

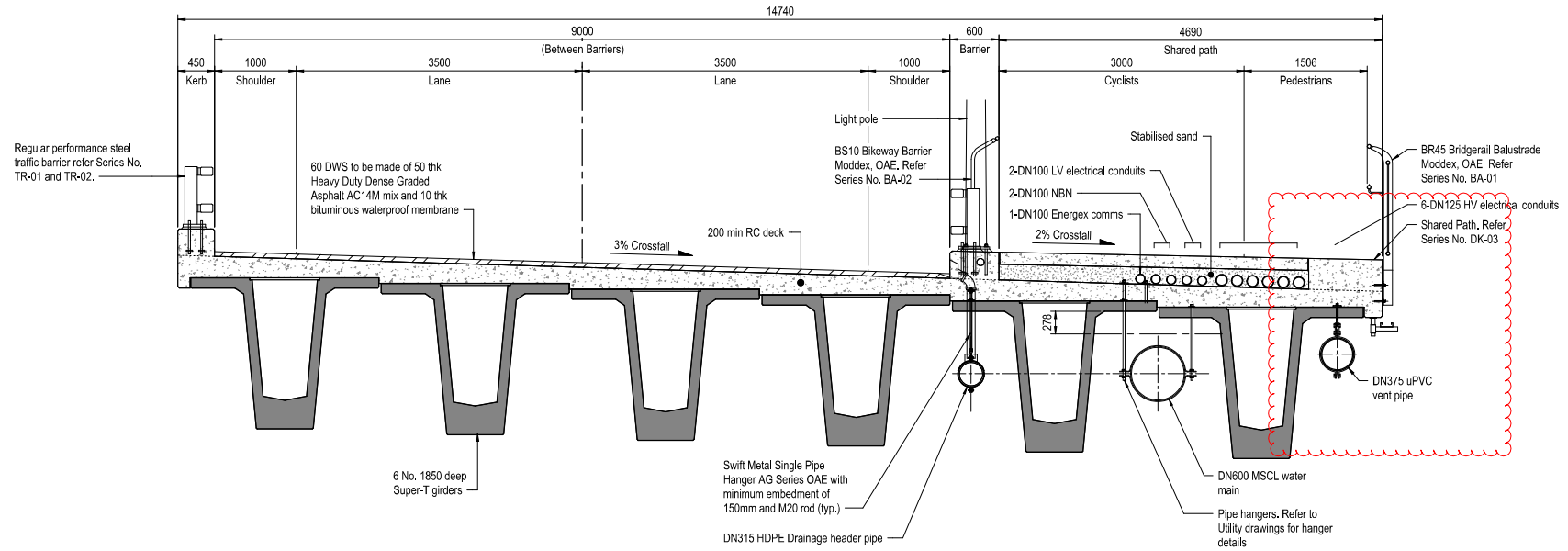
Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025	

Local Authority:	CITY OF MORETON BAY
	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	GENERAL ARRANGEMENT SHEET 1



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-04000
Series Number	GA-01 of 5
REV	B

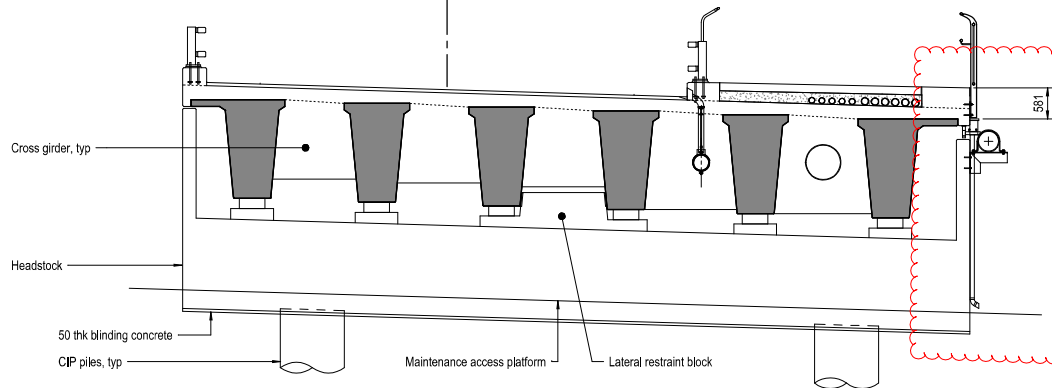
BRIDGE CONTROL LINE CL99



TYPICAL DECK SECTION

Scale A

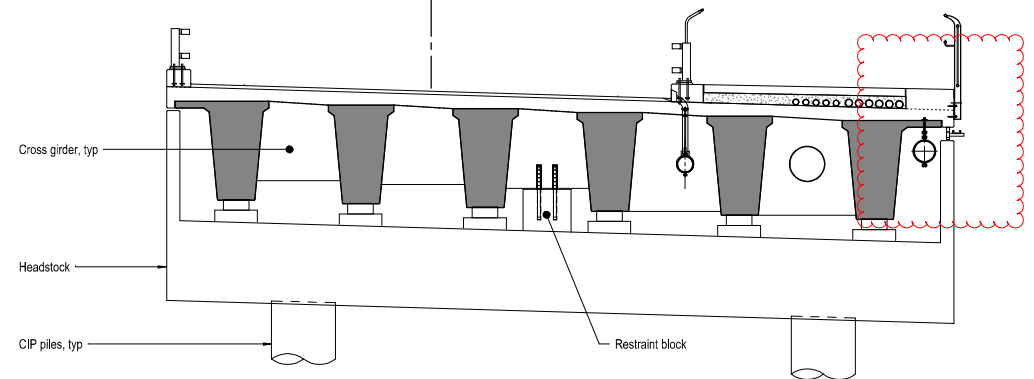
BRIDGE CONTROL LINE CL99



ELEVATION AT ABUTMENT

Scale B

BRIDGE CONTROL LINE CL99



ELEVATION AT PIER

Scale B

NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



Stockland

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 300 600 900 1200mm
B	0 1 2 m
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEQ: 35109 Date: 28/08/2025			

Local Authority:		CITY OF MORETON BAY	
		BR01 - CABOOLTURE RIVER BRIDGE	
Drawing Title:		GENERAL ARRANGEMENT SHEET 2	

Project No.		01099	
Drawing No.		01099-RFA-BR01-DRG-04001	
Series Number		GA-02 of 5	
		REV B	

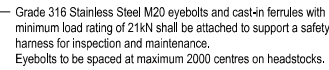
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Scale A



LOG RAIL - ALTERNATE ELEVATION



Scale A



FRONT ELEVATION (MID SPAN)

SIDE ELEVATION

FRONT ELEVATION (TERMINAL END)

Scale C

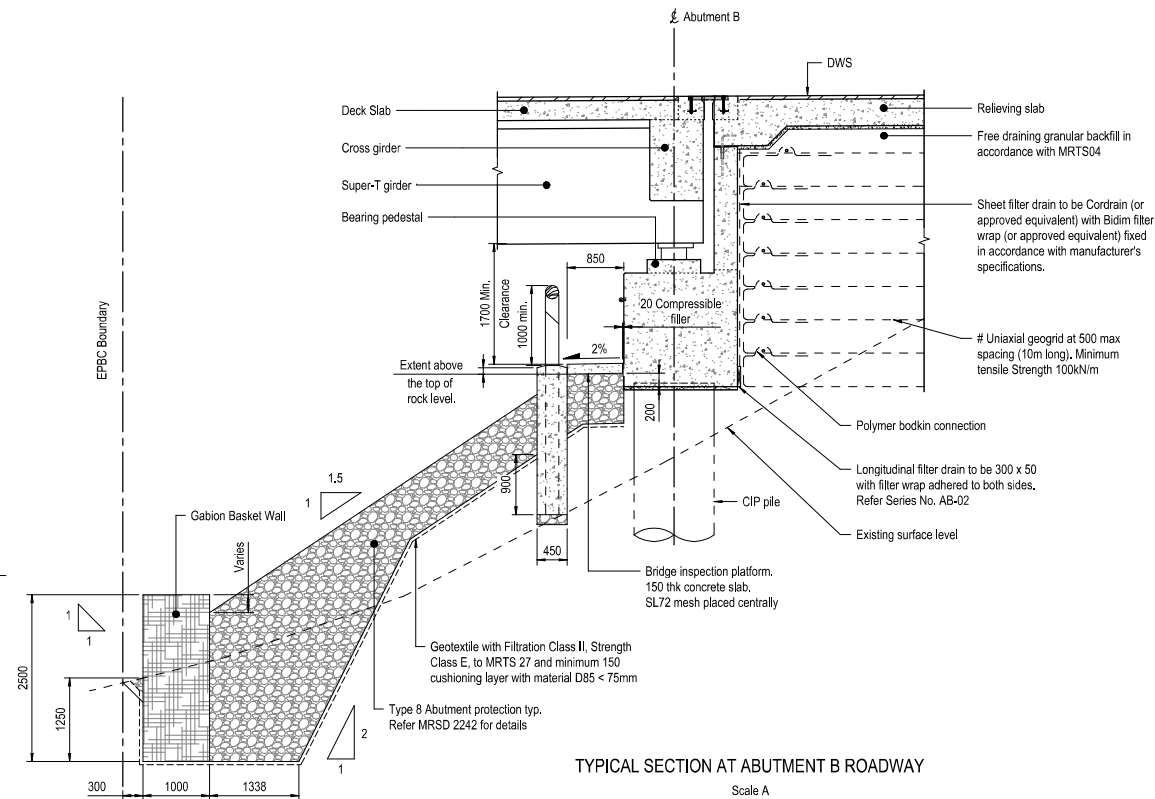
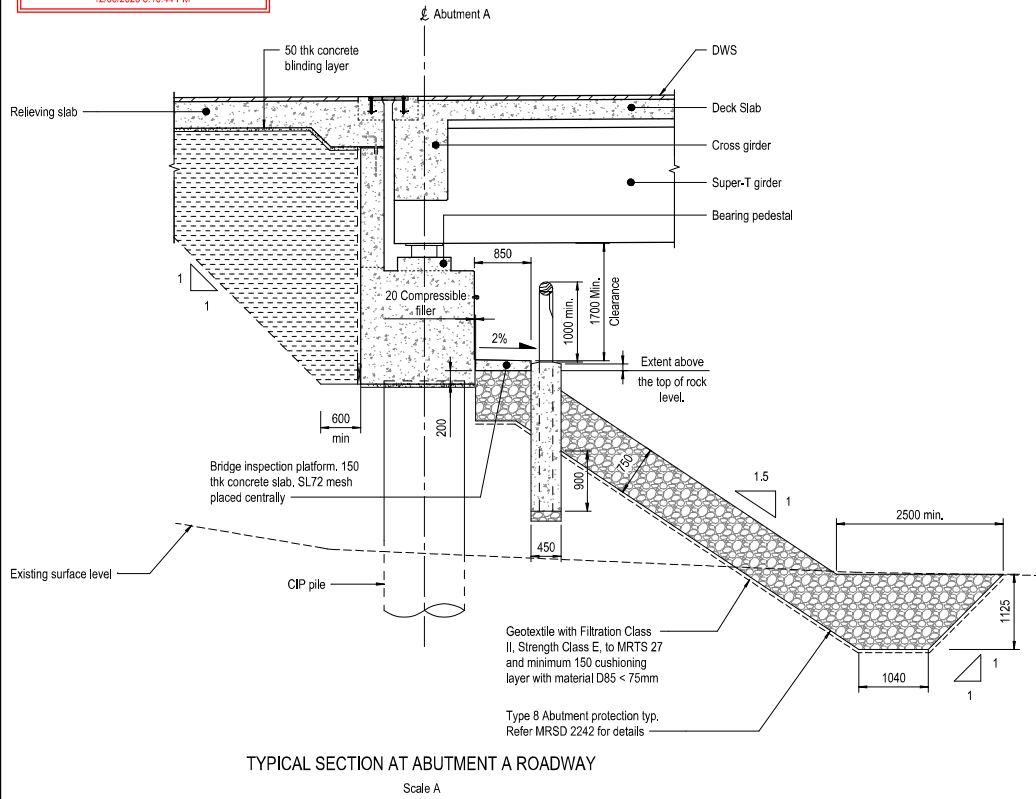


Queensland
Government

Date: 22/07/2026

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data		 Stockland		Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheung	Design: K. Cheung Verified: T. Ford	Local Authority: CITY OF MORETON BAY Project: BR01 - CABOOLTURE RIVER BRIDGE		Project No. 01099 Drawing No. 01099-RFA-BR01-DRG-04002	Series Number GA-03 of 5	Date: 29/08/2025	ON BEHALF OF RED FOX ADVISORY RPECO, 35/100
A	Issued for Construction			1/09/2025		Datum: GDA2020 Horizontal Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived	A 0 400 800 1200 1600mm B 0 100 200 300 400mm C 0 50 100 150 200mm										



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



ROCK SIZES FOR SCOUR PROTECTION

Class	Velocity V 'm/s'	D10 Min		D50		Maximum		Protection Thickness T 'm'	Geotextile
		Size in 'm'	Mass in 'kg'	Size in 'm'	Mass in 'kg'	Size in 'm'	Mass in 'kg'		
Light	2.6 - 2.9	0.225	10	0.4	100	0.55	250	0.75	Geotextile with filtration class II, strength class E, to MRTS27 and minimum 150 thick cushioning layer with material D85 < 75mm

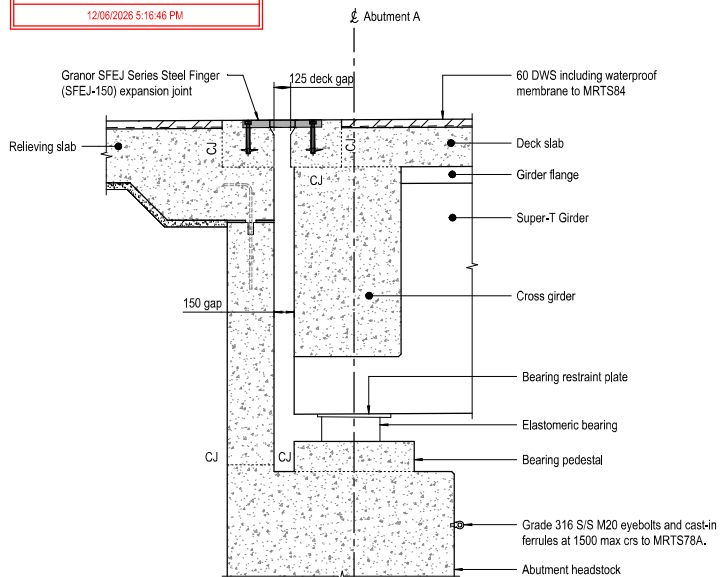
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GA-04 of 5	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A 0 400 800 1200 1600mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Oj	Design: T. Filon Verified: K. Oj	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	GENERAL ARRANGEMENT SHEET 4	Project:	01099	01099-RFA-BR01-DRG-04003				

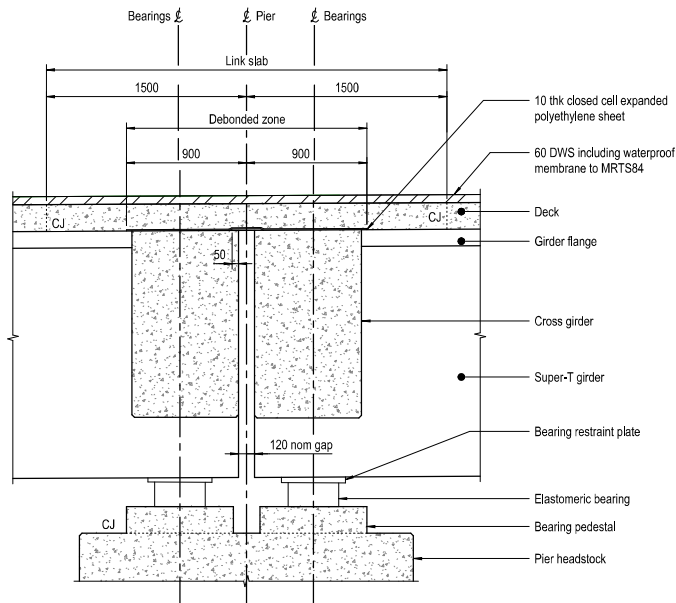
ISSUE FOR CONSTRUCTION

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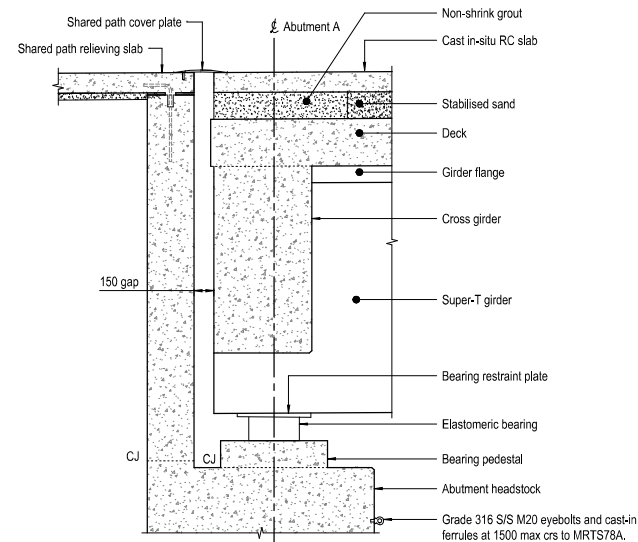
ABUTMENT - EXPANSION JOINT

Scale A



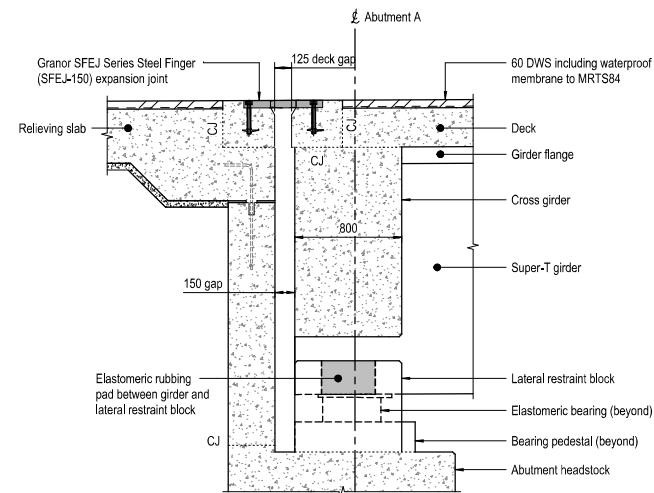
PIER - CONTINUOUS DECK

Scale A



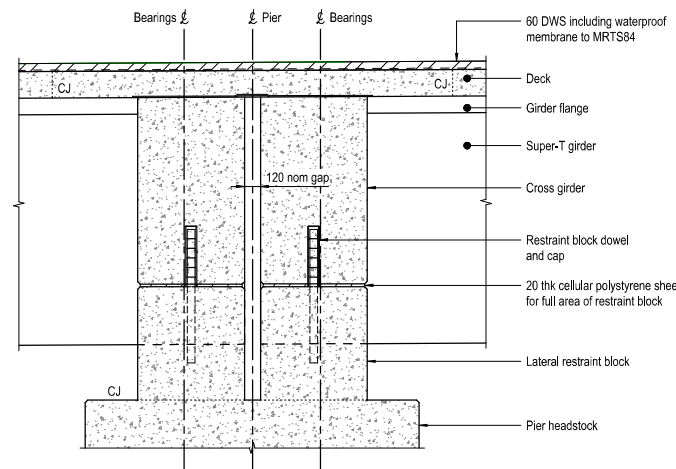
ABUTMENT - SHARED PATH

Scale A



ABUTMENT - RESTRAINT BLOCK ANCHORAGE

Scale A



PIER - RESTRAINT BLOCK ANCHORAGE

Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

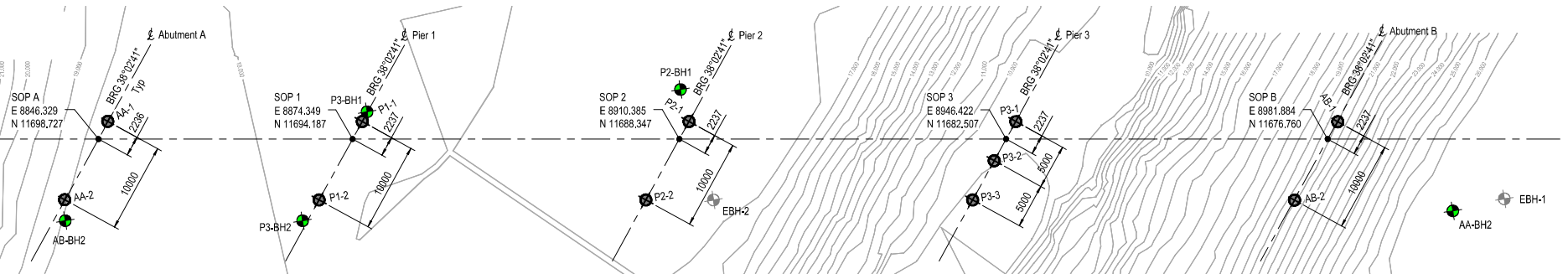
Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GA-05 of 5	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A 0 200 400 600 800 mm	B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	K. Cheng Verified: T. Ford Date: 28/08/2025	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	GENERAL ARRANGEMENT SHEET 5	01099	01099-RFA-BR01-DRG-04004					

ISSUE FOR CONSTRUCTION

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BRIDGE CONTROL LINE
BEARING 99°12'18"

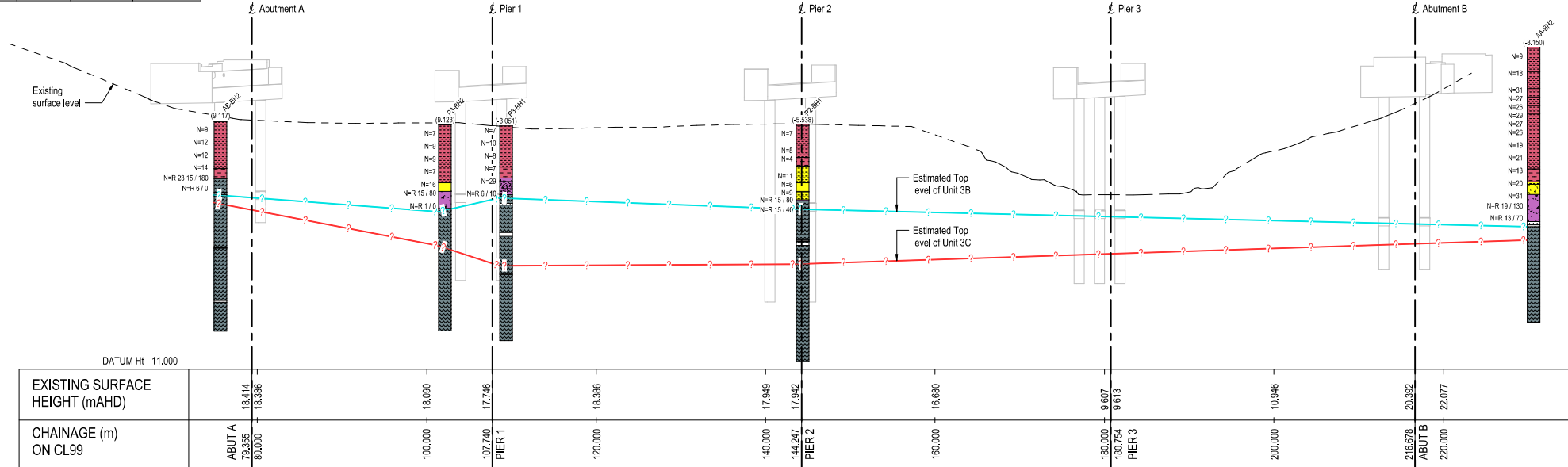


PILE LAYOUT PLAN

Scale A

BOREHOLE SCHEDULE

BOREHOLE REFERENCE	EASTING (m)	NORTHING (m)	ELEVATION (mAHD)
AA-BH2	8994.400	11666.600	27.14
P2-BH1	8911.395	11693.794	18.00
P3-BH1	8876.432	11696.941	17.88
P3-BH2	8867.373	11686.075	18.00
AB-BH2	8841.203	11690.321	18.50
EBH-1	9000.292	11667.010	27.30
EBH-2	8913.056	11681.016	17.80



GEOTECHNICAL LONG SECTION

Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For Pile Notes and Legends, refer to Series No. GE-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scale	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books: Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise	A 0 2 4 6 8 10 m	B. Humphries	T. Filon	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	PILE LAYOUT	01099	01099-RFA-BR01-DRG-05000	GE-01 of 3		

ISSUE FOR CONSTRUCTION

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GENERAL PILING NOTES

1.

This Drawing shall be read in conjunction with Series No. NL-01 and NL-02.
2.

Steel liners shall be of minimum Grade 250 to AS/NZS 2678.
3.

The Contractor's method statement for construction of piles shall be submitted to the Project Manager for approval not less than 28 days prior to construction of the piles in accordance with MRTS63.
4.

In addition to the construction procedure activities listed in MRTS63, the Contractor's construction method statement shall also address:

•

Dealing with high groundwater levels.

•

Dealing with high strength rock anticipated in the ground profile.

•

Dealing with rock with closely spaced foliations / discontinuities.

•

Dealing with obstructions, if encountered.
5.

Pile position at cut-off level shall be surveyed prior to casting concrete. Should positional deviation exceed the permissible tolerance the Contractor shall propose remedial measures to the Project Manager for approval prior to casting concrete.
6.

Where the actual pile toe levels are lower than those specified in the Pile Schedule, the pile reinforcement shall be extended to the actual pile toe levels.
7.

Where prefabricated reinforcement cages are joined, the centre to centre spacing between the ends of the helical reinforcement shall not exceed 125mm.
8.

Place concrete to ensure a sound monolithic compacted concrete shaft of the full diameter to cut-off level. Adequate measures shall be taken to avoid segregation, bleeding and grout deficiency of the pile.
9.

The top 50mm of the piles shall be prepared as a construction joint and well scabbled prior to casting of the headstock.
10.

The Contractor shall provide as-built drawings of the piles. The As-Constructed records shall be provided in accordance with AS2159 and MRTS63.

GEOTECHNICAL PILING NOTES:

1.

Refer to Geotechnical Interpretive Report: 01099-RFA-01-GEO-RPT-002 dated 25/10/24.
2.

Refer to Geotechnical Factual Report: 01099-RFA-01-GEO-RPT-001 dated 25/10/24.
3.

A Geotechnical Strength Reduction Factor (Φ_g) of 0.55 has been adopted for the pile design in accordance with AS2159-2009.
4.

Pile construction control shall include professional geotechnical supervision. The qualifications of the Geotechnical Assessor and geotechnical certification procedures shall be in accordance with MRTS63.
5.

The Geotechnical Assessor shall be appointed by the Project Manager.
6.

The intention of the pile design and the dimensions provided in the Pile Schedule are based on that the lined piles are cast in dry conditions. The liner shall be installed to achieve a watertight seal against ingress of water into the excavated hole where reasonably practicable.
7.

The anticipated liner termination levels shown in the Pile Schedule shall be verified by the Geotechnical Assessor during construction.
8.

The Contractor is responsible for the socket side wall stability which shall include, if required, determination of liner termination level.
9.

Open-ended liners are left permanently in place. The permanent steel liner shall have a minimum thickness of 12mm. The Contractor shall confirm that the liner thickness is adequate for the construction methods proposed. Stiffening band shown is indicatively only and shall be confirmed by the Contractor.
10.

Ground conditions assumed in the design, as per the Pile Schedule, shall be verified by the Geotechnical Assessor in accordance with MRTS63. The Project Manager shall be advised immediately if worse ground condition to those in the Pile Schedule are encountered.
11.

Piles shall be bored to the estimated toe levels as a minimum and achieve the strata denoted in the Pile Schedule.
12.

Founding levels, and socket lengths are estimated on the inferred ground profile and interpreted geotechnical design parameters given in Pile Socket Design Parameters table.
13.

Actual founding levels and conditions may vary from those shown and shall be assessed by the Geotechnical Assessor during construction, taking into account ULS loads and the geotechnical capacity of the pile.
14.

Ground conditions in the river bed may differ from those shown in the geotechnical long section as no geotechnical investigations have been undertaken at this location. The Geotechnical Assessor is to ensure sufficient capacity of the pile is achieved in the encountered rock socket.
15.

Point Load Strength Index ($I_s(50)$) tests on representative rock samples recovered from socket excavation shall be carried out deemed necessary by the Geotechnical Assessor to confirm the rock strength. Rock strengths adopted in pile design are provided in the Pile Socket Design Parameters table.
16.

Actual pile toe levels and socket lengths shall be equal to or exceed the dimensions shown on the Pile Schedule. Any variation from the Drawings proposed by the Geotechnical Assessor triggers a Hold Point and must be approved by the Project Manager prior to proceeding.
17.

Pile base shall be clean and free of loose material.
18.

Pile socket walls shall be clean and free of smeared material.
19.

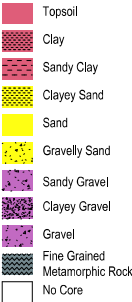
Pile socket walls shall be roughened to have a roughness of "R3" or better, i.e. Grooves of depth 4 to 10mm and width greater than 5mm, at spacing 50mm to 200mm.
20.

Should dry hole cannot be achieved after all reasonable methods, the procedures to verify geotechnical capacity in a wet pile shall be followed and appropriate capacity reduction factors to be applied in accordance with MRTS63.
21.

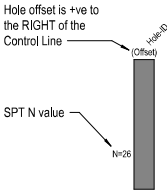
The Contractor shall provide a video camera (or similar device) on site to allow down-the-hole inspections of pile socket and base. Refer to MRTS63 for the requirements of camera for pile inspections.
22.

A minimum of one pile integrity test in accordance with AS2159-2009 shall be performed at each pier and abutment location.

MATERIAL TYPE



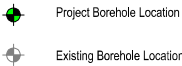
BOREHOLE DATA



LEVELS



SYMBOLS



GEOLOGICAL LEGEND

Scale NTS

PILE SOCKET DESIGN PARAMETERS

MATERIAL	STRENGTH	DESIGN UNIAXIAL COMPRESSIVE STRENGTH, UCS (MPa)	WEATHERING	ULTIMATE END BEARING CAPACITY (MPa)	ULTIMATE SHAFT RESISTANCE (kPa)
Unit 3B	Low Strength	1	Highly Weathered Phyllite	3	325
Unit 3C	Medium Strength	10	Moderately Weathered Phyllite or better	9.5	1125

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



PILE SCHEDULE

LOCATION	PILE No.	PILE DIAMETER (mm)	BOREHOLE REFERENCE	PILE CUT OFF LEVEL (mAHD)	ANTICIPATED TOP LEVEL OF ROCK (mAHD)	ANTICIPATED PILE TOE LEVEL (DRY) (mAHD)	DESIGN ROCK SOCKET FOUNDING MATERIAL	MINIMUM SOCKET LENGTH (m)		ANTICIPATED LINER TERMINATION (mAHD)	ANTICIPATED PILE LENGTH (m)
								Unit 3B	Unit 3C		
Abutment A	AA-1	1200	AB-BH2	20.878	9.28	6.32	Unit 3C - Moderately Weathered Phyllite	1.21	1.50	9.03	14.56
	AA-2			20.592							14.27
Pier 1	P1-1		P3-BH1/P3-BH2	20.995	8.93	-0.53		7.21	2.00	8.68	21.53
	P1-2			20.709							21.24
Pier 2	P2-1		P2-BH1/EBH-2	21.177	7.90	-3.08		6.23	4.50	7.65	24.26
	P2-2			20.891							23.97
Pier 3	P3-1		N/A	21.359	7.03	-0.88		4.16	3.50	6.78	22.24
	P3-2			21.214							22.10
	P3-3			21.073							21.95
Abutment B	AB-1		AA-BH2/EBH-1	21.557	6.17	0.80		2.12	3.00	5.92	20.76
	AB-2			21.271							20.47

PILE LOAD SCHEDULE

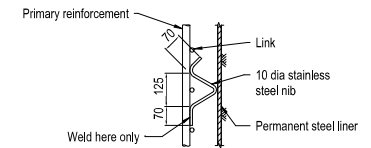
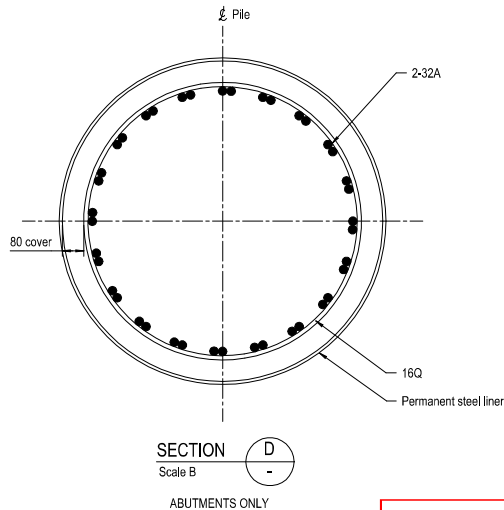
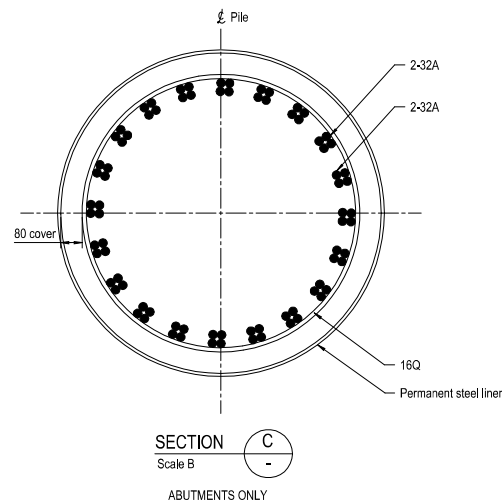
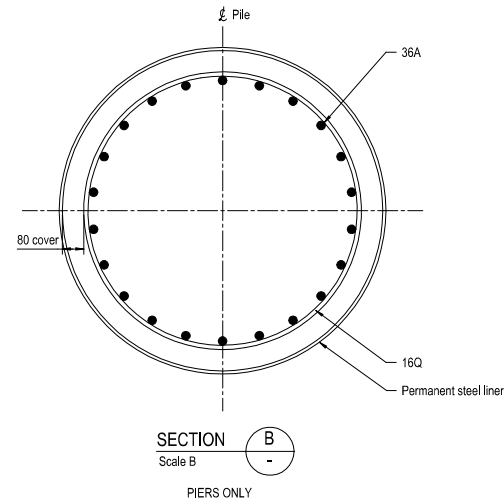
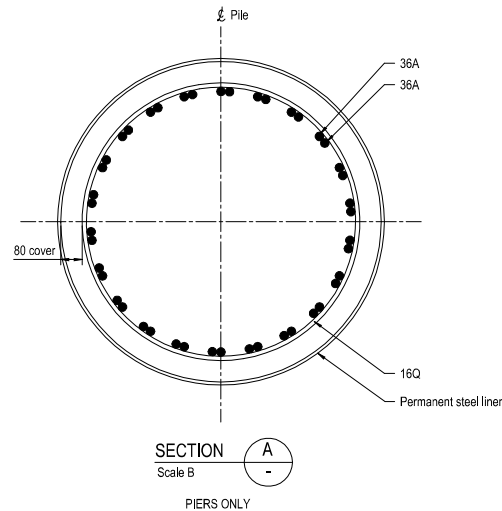
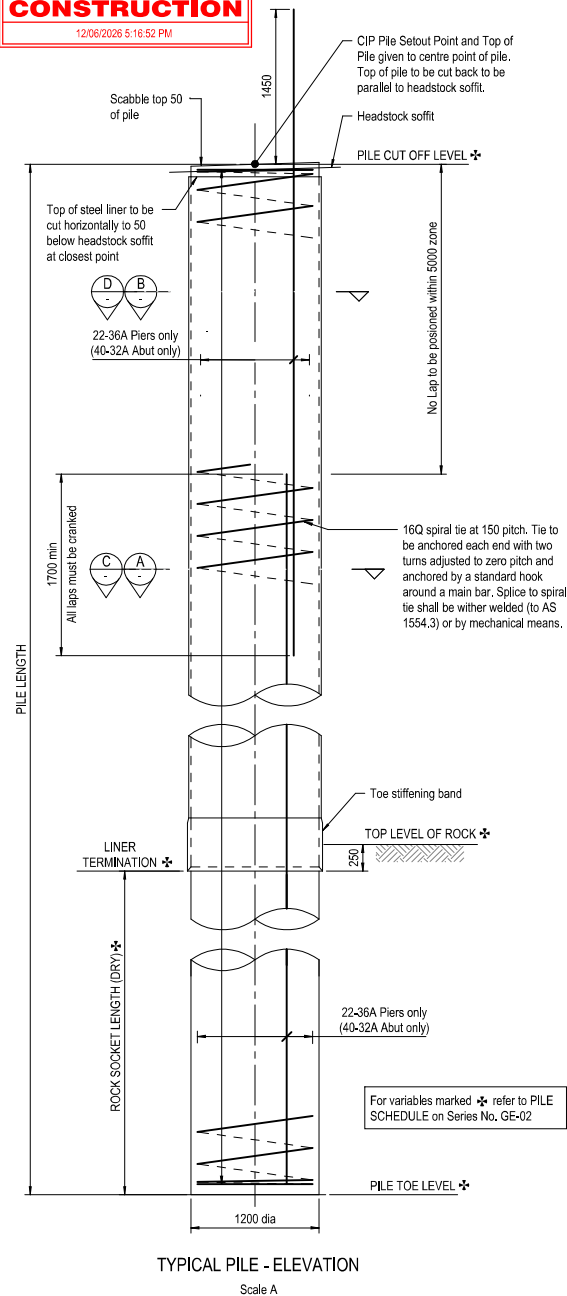
LOCATION	MAXIMUM SLS DESIGN LOADS (PER PILE) (TOP OF PILE)						MAXIMUM ULS DESIGN LOADS (PER PILE) (TOP OF PILE)					
	AXIAL COMPRESSION (kN)	AXIAL TENSION (kN)	LONGITUDINAL MOMENT (kNm)	TRANSVERSE MOMENT (kNm)	LONGITUDINAL SHEAR (kN)	TRANSVERSE SHEAR (kN)	AXIAL COMPRESSION (kN)	AXIAL TENSION (kN)	LONGITUDINAL MOMENT (kNm)	TRANSVERSE MOMENT (kN)	LONGITUDINAL SHEAR (kN)	TRANSVERSE SHEAR (kN)
Abutment A	6500	0	1150	2040	790	120	8200	0	1590	2750	1010	320
Pier 1	9600	0	1370	720	180	130	13300	0	2040	810	260	170
Pier 2	10300	0	730	300	100	50	14000	0	1180	440	160	190
Pier 3	8000	0	1130	260	90	60	10300	0	1680	900	140	160
Abutment B	7200	0	1650	1240	670	120	9400	0	2250	1650	870	150

Maximum design actions in cast-in-place piles, loadings are non-coincidental

Rev.	Revisions/Descriptions	Ref.	Certification	Date	 Stockland	Survey Data		Scales	Drawn:	Design:	Local Authority:		 redfox
A	Issued for Construction			1/09/2025		Datum	GDA2020		B. Humphries	T. Filbin	CITY OF MORETON BAY		
						Horiz. Datum	MGA Zone 56 (Local Grid)		Checked:	Verified:	BR01 - CABOOLTURE RIVER BRIDGE		
						Height Datum	AHD Derived		L. O'Driscoll	K. OJ			
						Survey Books			Approved:	K. OJ	Drawing Title:		
											PILING NOTES AND SCHEDULES		
						Original Drawing Size : A1 Dimensions shown in millimetres except where shown otherwise		ON BEHALF OF RED FOX ADVISORY RPEQ: 8126 Date: 28/08/2025		Project No. 01099		Drawing No. 01099-RFA-BR01-DRG-05010	
										Series Number	GE-02 of 3		REV A

ISSUE FOR CONSTRUCTION

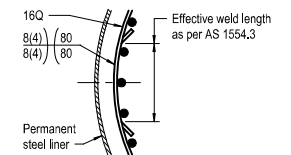
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1 set of 8 spacers (equally spaced around the circumference of the cage) to be welded securely to primary reinforcement at intervals of 4000 max on welded cages and 2500 max on unwelded cages. There must be at least 2 sets of ribs per cage. Nibs shall be placed approximately in line and straddle the link bar. Grade of stainless steel for ribs to be in accordance with MRTS71A.

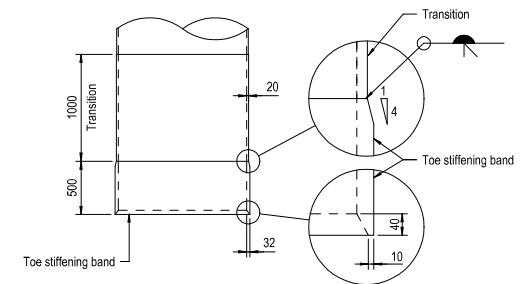
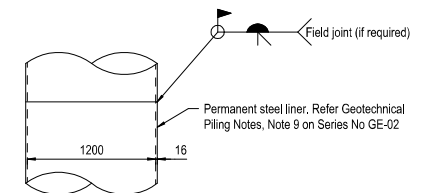
TYPICAL SPACER DETAIL

Scale NTS



TYPICAL WELDED LAP SPLICE DETAIL

Scale NTS



PILE STEEL LINER DETAIL

Scale A

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For pile setout refer GE-01.
- For pile notes and tables refer GE-02.
- Prior to casting the pile, the pile reinforcement shall be orientated to allow for correct placement of the headstock reinforcement.



Project No. 01099

Drawing No. 01099-RFA-BR01-DRG-05020

Series Number GE-03 of 4 REV A

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

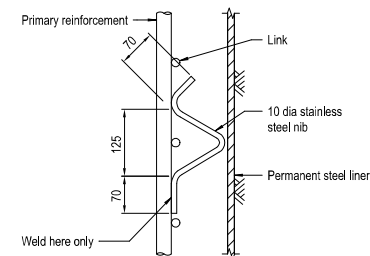
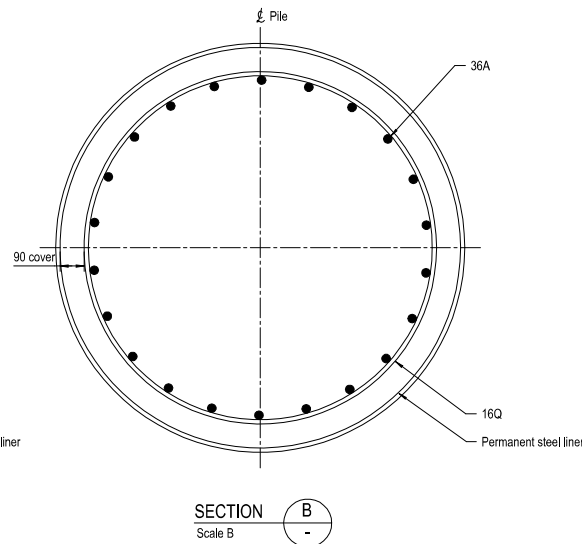
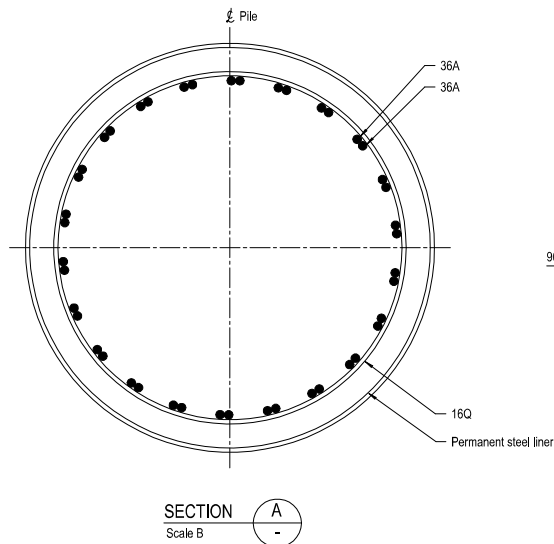
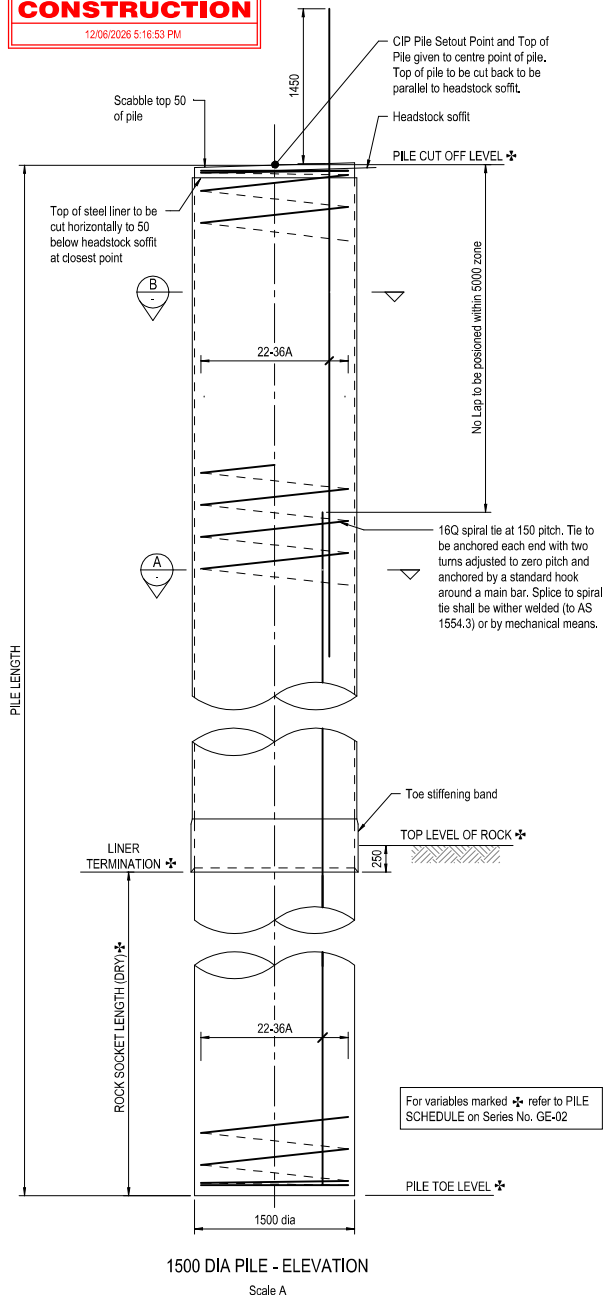
Scales	
A	0 500 1000mm
B	0 100 200 300 400mm
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: T. Ford	
ON BEHALF OF RED FOX ADVISORY	
RPEQ: 31374	Date: 28/08/2025

Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	PILE DETAILS SHEET 1

ISSUE FOR CONSTRUCTION

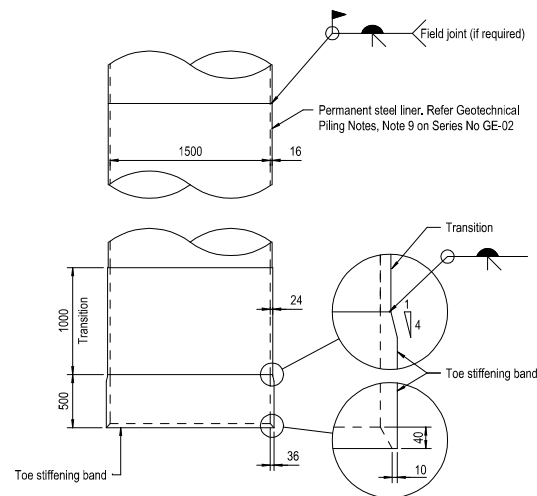
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1 set of 8 spacers (equally spaced around the circumference of the cage) to be welded securely to primary reinforcement at intervals of 4000 max on welded cages and 2500 max on unwelded cages. There must be at least 2 sets of ribs per cage. Ribs shall be placed approximately in line and straddle the link bar. Grade of stainless steel for ribs to be in accordance with MRTS71A.

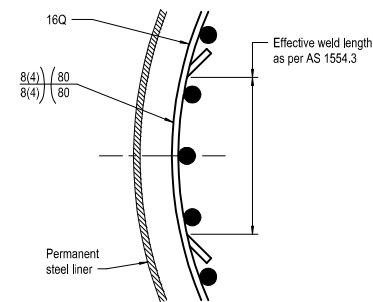
TYPICAL SPACER DETAIL

Scale NTS



PILE STEEL LINER DETAIL

Scale A



TYPICAL WELDED LAP SPICE DETAIL

Scale NTS

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For pile setout refer GE-01.
- For pile notes and tables refer GE-02.
- Prior to casting the pile, the pile reinforcement shall be orientated to allow for correct placement of the headstock reinforcement.



Project No. 01099

Drawing No. 01099-RFA-BR01-DRG-05020

Series Number GE-04 of 4 REV A

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



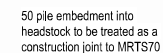
Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 500 1000mm
B	0 100 200 300 400mm
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: T. Ford	
ON BEHALF OF RED FOX ADVISORY	
RPEQ: 31374	Date: 28/08/2025

Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	PILE DETAILS SHEET 2

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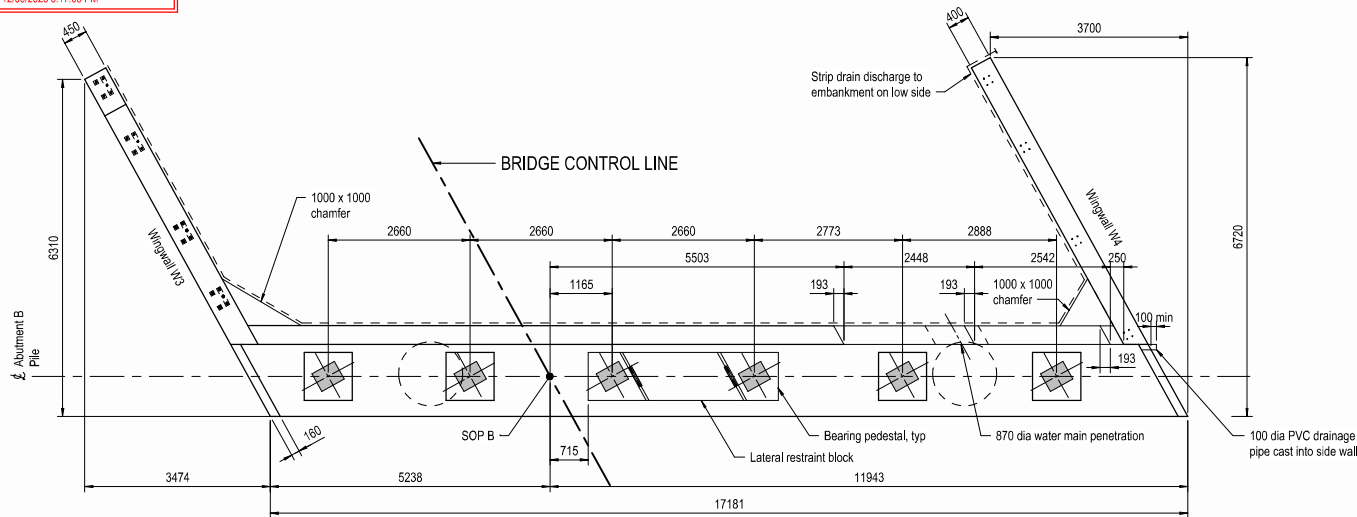


1. For General Notes, refer to Series No. NL-01 and NL-02.

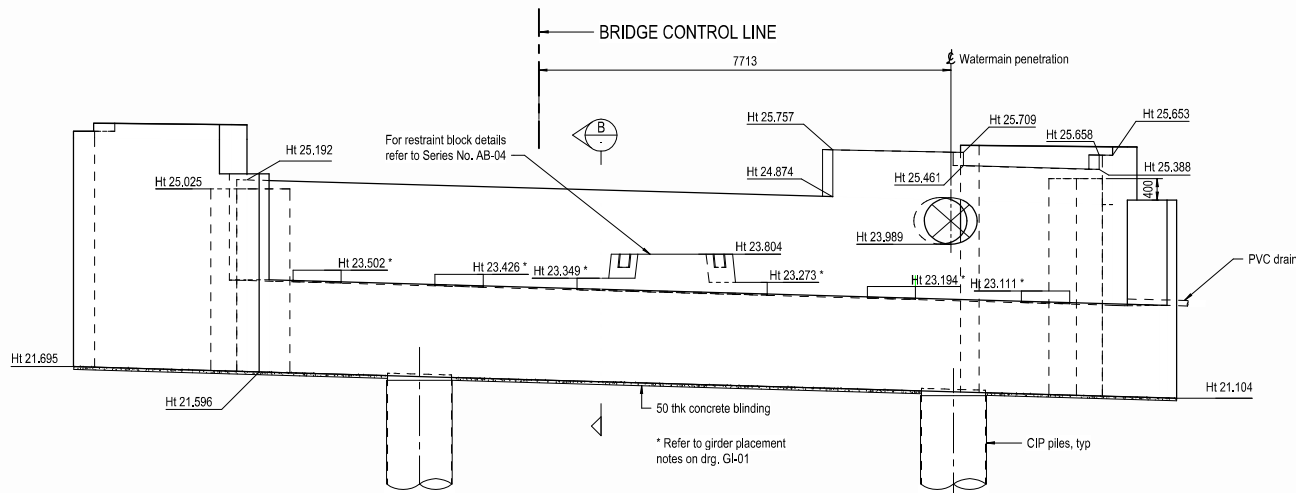
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ISSUE FOR CONSTRUCTION

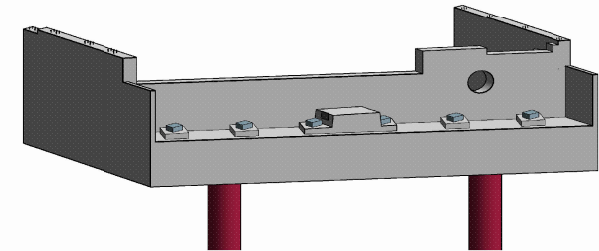
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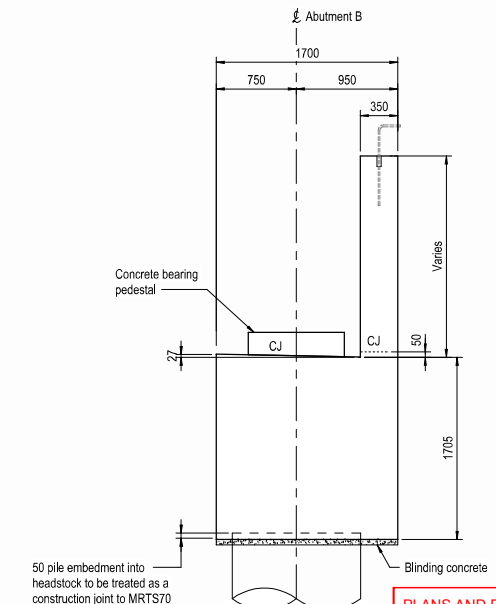
ABUTMENT B - PLAN
Scale A



ELEVATION
Scale A



3D VIEW
Scale NTS



SECTION B
Scale B

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026

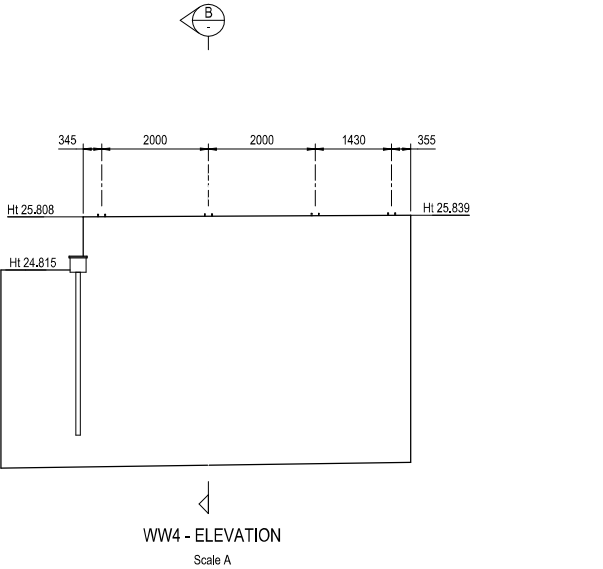
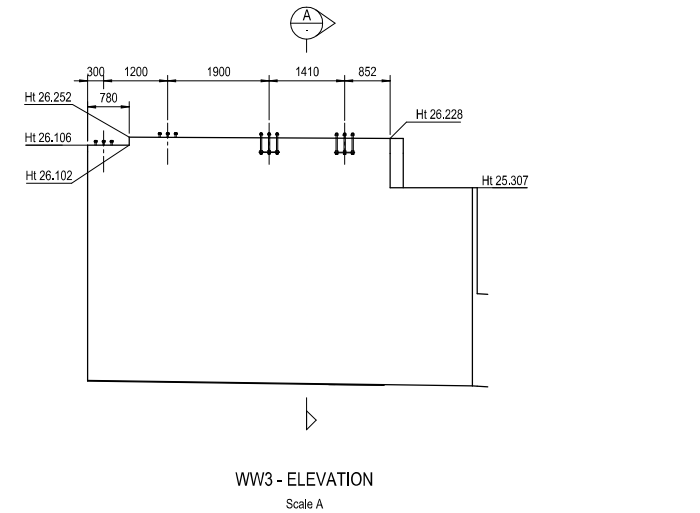
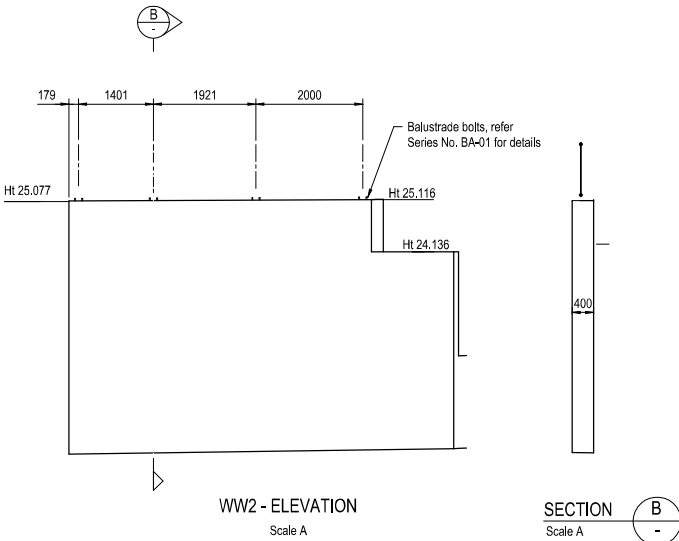
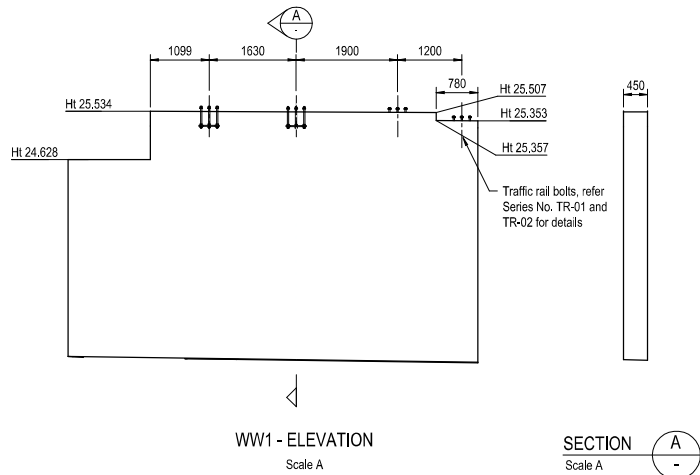
NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	AB-02 of 8	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A: 0 1 2 m B: 0 500 1000mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	ABUTMENT CONCRETE DETAILS SHEET 2	01099	01099-RFA-BR01-DRG-06001					

ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

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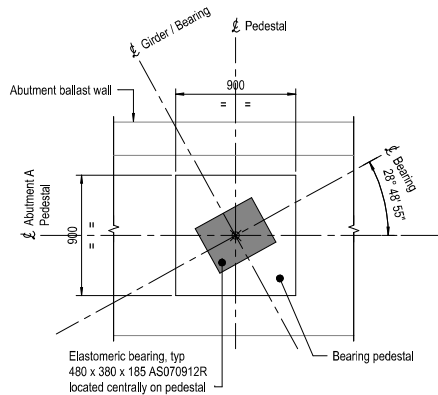
Date: 22/07/2026



NOTES

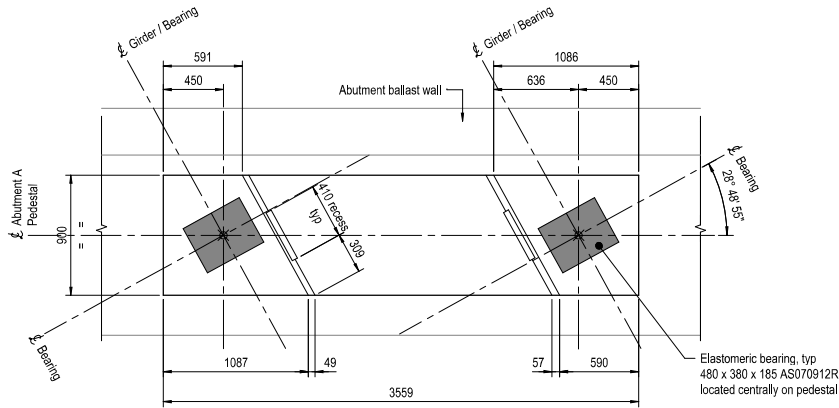
1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Project No.	Drawing No.	Series Number	AB-03 of 8	REV	B
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020	A 0 1 2 m	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	01099	01099-RFA-BR01-DRG-06002	AB-03 of 8	REV	B	
B	Re-issued for Construction			27/02/2026		Horiz. Datum: MGA Zone 56 (Local Grid)	B 0 100 200 300 400 mm	L. O'Driscoll	T. Ford								
						Height Datum: AHD Derived		Approved: K. Cheng			ABUTMENT CONCRETE DETAILS						
						Survey Books		ON BEHALF OF RED FOX ADVISORY			SHEET 3						
								RPEQ: 35109	Date: 28/08/2025								



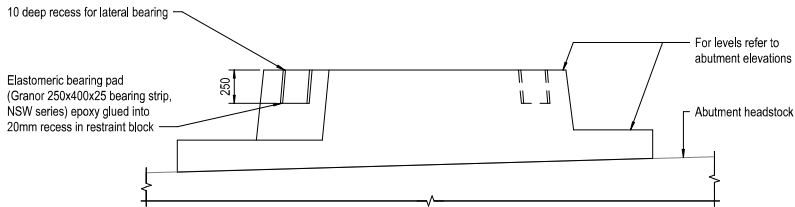
TYPICAL BEARING PEDESTAL - PLAN

Scale A



TYPICAL RESTRAINT BLOCK - PLAN

Scale A



ELEVATION

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

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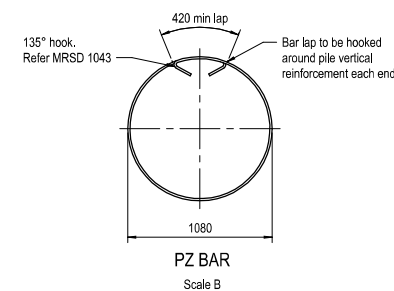
Date: 22/07/2026



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

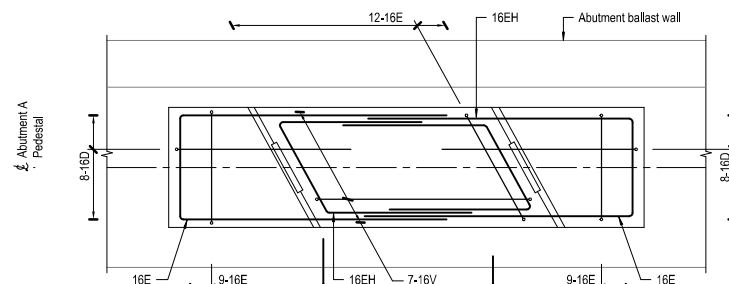
Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	AB-04 of 8	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A 0 200 400 600 800mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	Design: K. Cheng Verified: T. Ford Date: 28/08/2025	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	ABUTMENT CONCRETE DETAILS SHEET 4	01099	01099-RFA-BR01-DRG-06003					



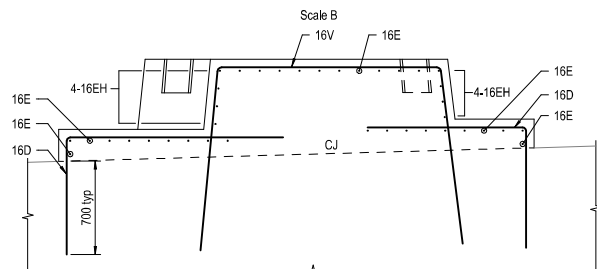
Date: 22/07/2026

Scale A

(Abutment B similar but opposite handed)



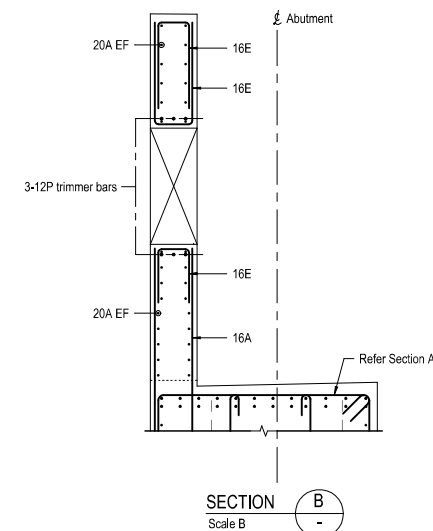
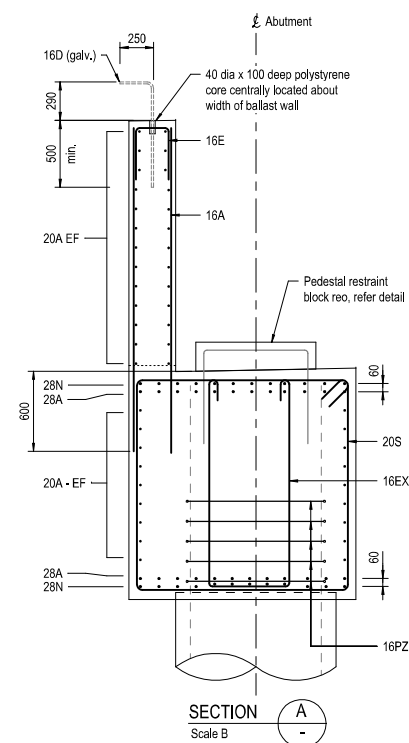
Scale B



Scale B

TYPICAL ELEVATION

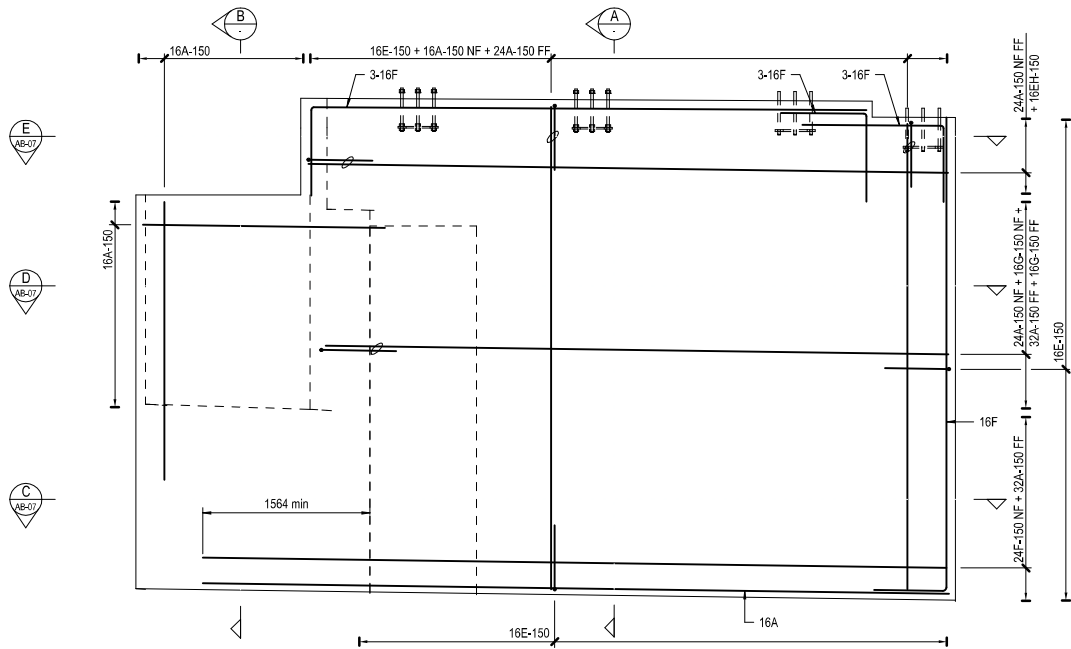
ELEVATION



NOTES

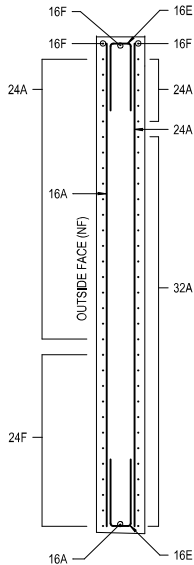
1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	 Stockland	Survey Data		A 0 400 800 1200 1600 mm B 0 200 400 600 800 mm	Drawn: B. Humphries	Design: K. Chang	Local Authority:	CITY OF MORETON BAY	 redfox	Project No. 01099	Drawing No. 01099-RFA-BR01-DRG-06010	Series Number AR-05 of 8	REV:
A	Issued for Construction			1/09/2025			Datum GDA2020	Horiz. Datum MGA Zone 56 (Local Grid)		Height Datum AHD Derived	Survey Marks	Original Drawing Size :A1 On Behalf of RED FOX ADVISORY RP/CD, 35109 Date: 29/08/2025						

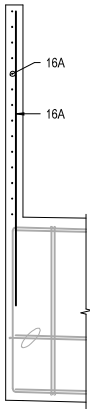


WW1 REINFORCEMENT - ELEVATION
(WW3 SIMILAR)

Scale A



SECTION A
Scale A



SECTION B
Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026



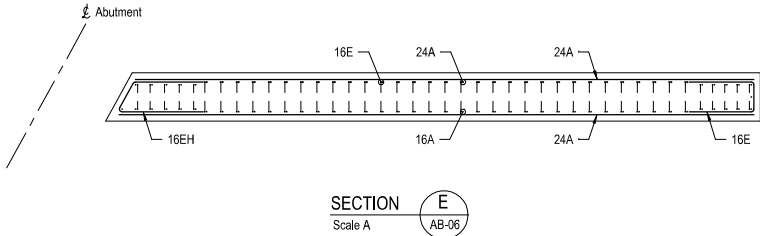
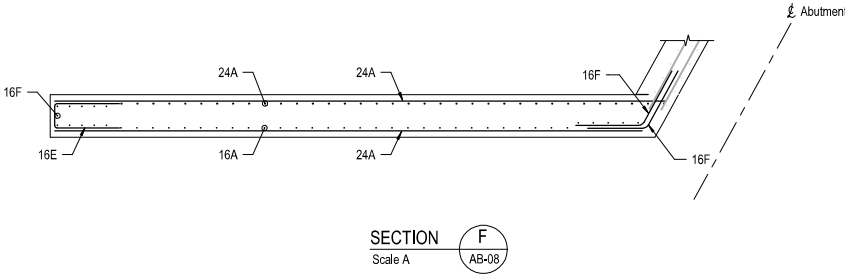
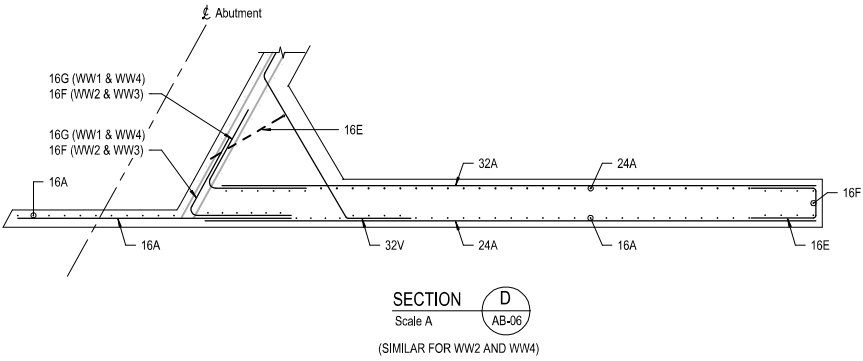
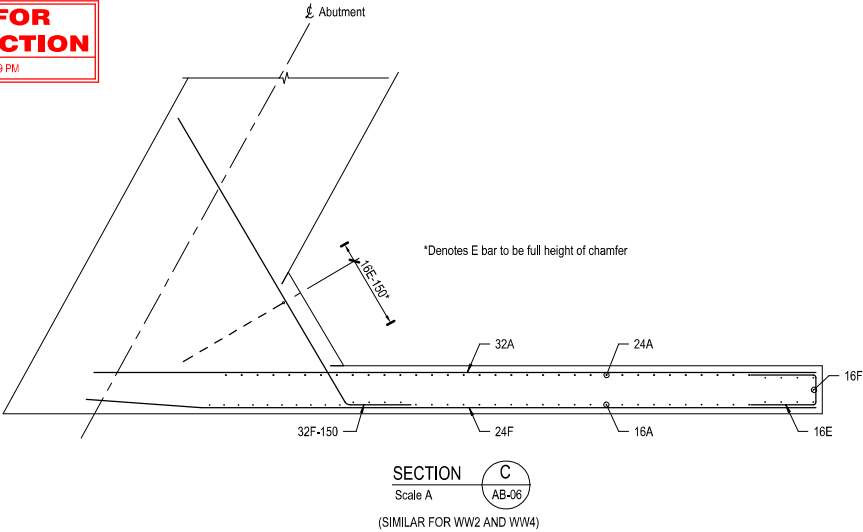
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	AB-06 of 8	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived	A 0 500 1000mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEC, 35109 Date: 28/08/2025	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	ABUTMENT REINFORCEMENT DETAILS SHEET 2	01099	01099-RFA-BR01-DRG-06011					

ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Project No.	Drawing No.	Series Number	AB-07 of 8	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum GDA2020 Horiz. Datum MGA Zone 56 (Local Grid) Height Datum AHD Derived Survey Books	A 0 500 1000mm	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	01099	01099-RFA-BR01-DRG-06012	AB-07 of 8			
						Original Drawing Size - A1 Dimensions shown in millimetres except where shown otherwise		Checked: L. O'Driscoll	Verified: T. Ford	ABUTMENT REINFORCEMENT DETAILS SHEET 3							
								Approved: K. Cheng									
								ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	Date: 28/08/2025								

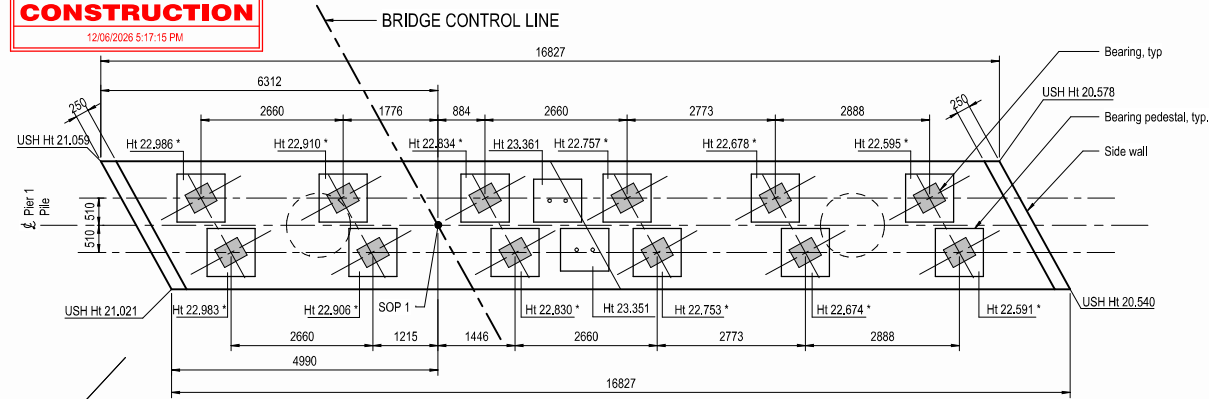


1. For General Notes, refer to Series No. NL-01 and NL-02.

Revisions/Descriptions					Ref.	Certification	Date	Client:  Stockland	Survey Data		A 	Drawn: B. Humphries	Design: K. Chang	Local Authority: CITY OF MORETON BAY	
A	Issued for Construction			1/09/2025	Date	GDA2020			Checked: L. O'Driscoll	Verified: T. Ford		Project: BR01 - CABOOLTURE RIVER BRIDGE			
					Horiz. Datum	MGA Zone 56 (Local Grid)			Approved: K. Chang 			Drawing Title: ABUTMENT REINFORCEMENT DETAILS SHEET 4			
					Height Datum	AHD Derived			ON BEHALF OF RED FOX ADVISORY						
					Survey Books				RPEQC, 35109 Date: 29/08/2025						
						Original Drawing Size : A1 Dimensions shown in millimetres except where shown otherwise									
											Project No.	01099			
											Drawing No.	01099-RFA-BR01-DRG-06013			
											Series Number	AB-08 of 8	REV	A	

ISSUE FOR CONSTRUCTION

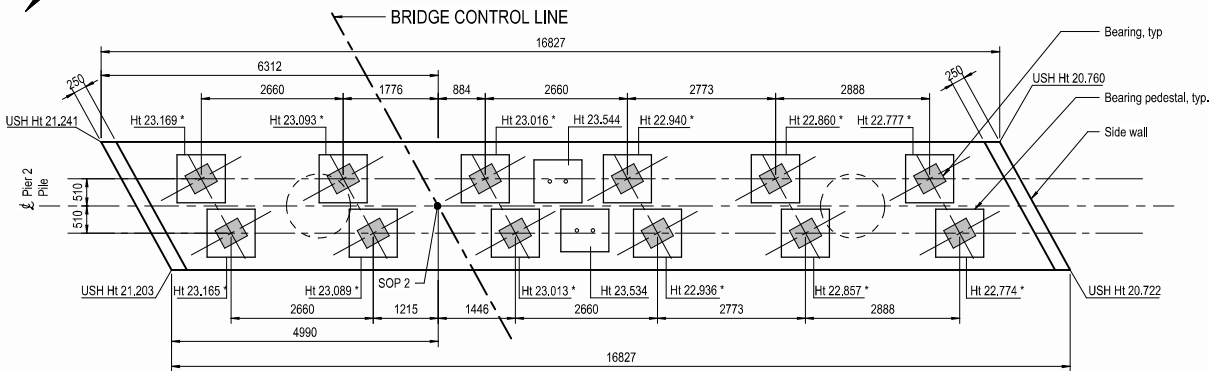
12/06/2026 5:17:15 PM



PIER 1 HEADSTOCK - PLAN

* Refer to girder placement notes on drg. G1-01

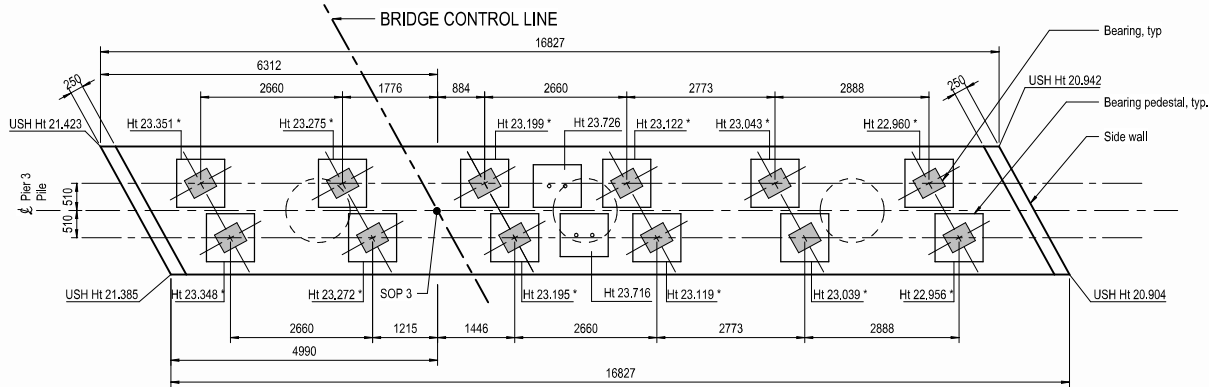
Scale A



PIER 2 HEADSTOCK - PLAN

* Refer to girder placement notes on drg. G1-01

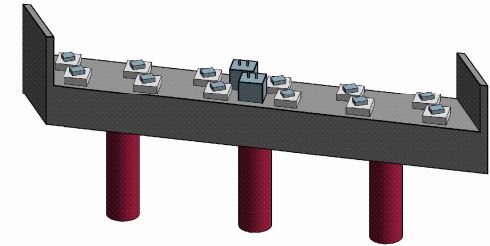
Scale A



PIER 3 HEADSTOCK - PLAN

* Refer to girder placement notes on drg. G1-01

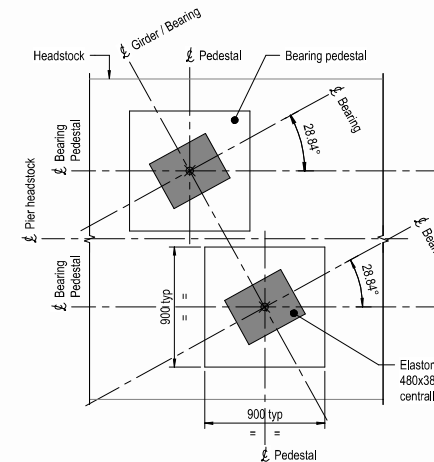
Scale A



3D VIEW

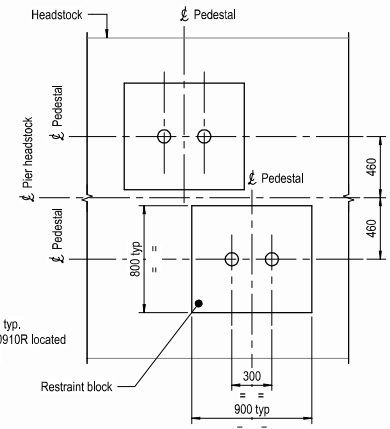
Scale NTS

(Pier 3 shown)



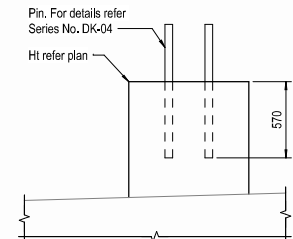
TYPICAL BEARING PEDESTAL - PLAN

Scale B



RESTRAINT BLOCK SETOUT - PLAN

Scale B



TYPICAL ELEVATION

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.



Project No. 01099

Drawing No. 01099-RFA-BR01-DRG-07000

Series Number PR-01 of 4 REV B

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025
B	Dim and Ht Amendments		T. Ford	30/2/2026

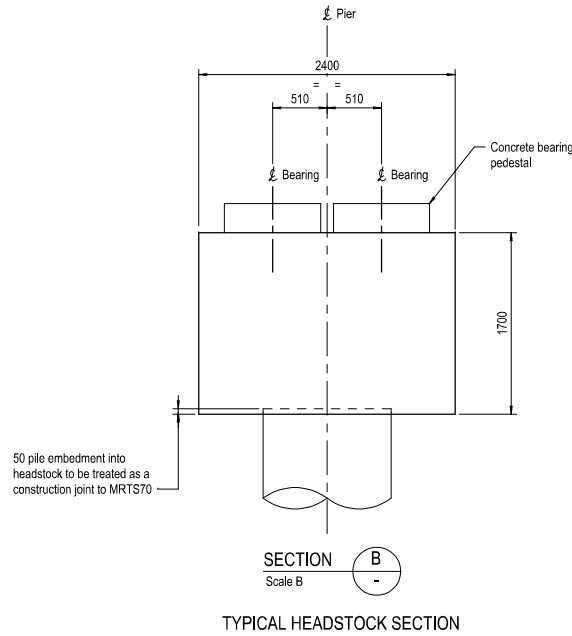
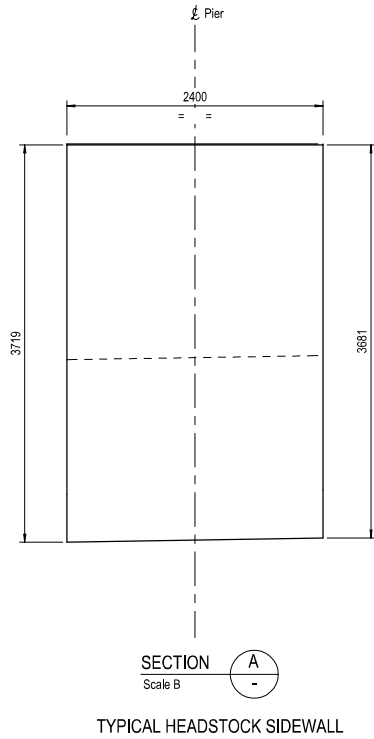
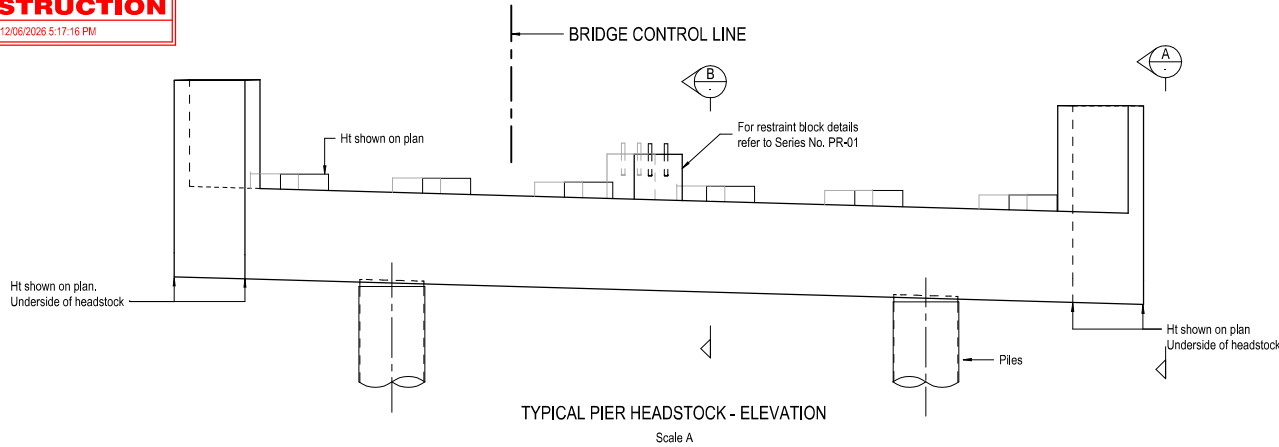


Survey Data
Datum
GDA2020
Horiz. Datum
MGA Zone 56 (Local Grid)
Height Datum
AHD Derived
Survey Books

Scales
A
0 1 2 m
B
0 200 400 600 800 mm
Original Drawing Size: A1
Dimensions shown in millimetres except where shown otherwise

Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEQ: 35109	Date: 28/08/2025		

Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	PIER CONCRETE DETAILS
	SHEET 1



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

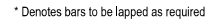
Date: 22/07/2026



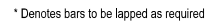
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Project No.	Drawing No.	Series Number	PR-02 of 4	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A: 0 1 2 m B: 0 500 1000mm	Drawn: B. Humphries Checked: L. O'Driscoll	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	01099	01099-RFA-BR01-DRG-07001				
								Approved: K. Cheng		PIER CONCRETE DETAILS	SHEET 2						
								ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	Date: 28/08/2025								



Scale A

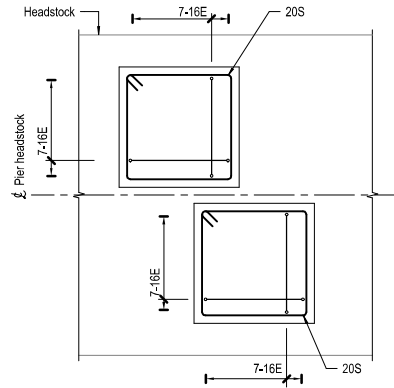


Scale A



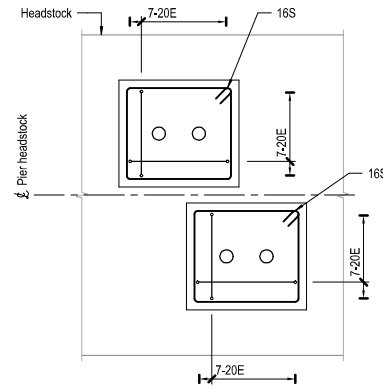
Project No.	01099		
Drawing No.	01099-RFA-BR01-DRG-07010		
Series Number	PR-03 of 4	REV	A

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales		Drawn:	Design:	Local Authority:	 redfox		
A	Issued for Construction			1/09/2025		Datum	GDA2020 <th>A</th> <td> 0 400 800 1200 1600 mm</td> <td></td> <td>B. Humphries</td> <td>K. Cheng</td> <td>CITY OF MORETON BAY</td>	A	0 400 800 1200 1600 mm		B. Humphries	K. Cheng		CITY OF MORETON BAY	
						Horiz. Datum	MGA Zone 56 (Local Grid)	B	0 200 400 600 800 mm		Checked:	Verified:		Project:	
						Height Datum	AHD Derived				L. O'Driscoll	T. Ford		BR01 - CABOOLTURE RIVER BRIDGE	
											Approved:			Drawing Title:	
						Survey Books					ON BEHALF OF RED FOX ASSOCIATES RPEQ - 35109 Date: 29/08/2025			PIER REINFORCEMENT DETAILS SHEET 1	
											Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise			Project No.	01099
												Drawing No.	01099-RFA-BR01-DRG-0710		
												Series Number	PR-03 of 4	REV A	



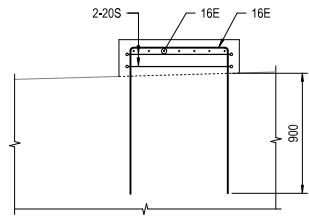
TYPICAL BEARING PEDESTAL REINFORCEMENT - PLAN

Scale A

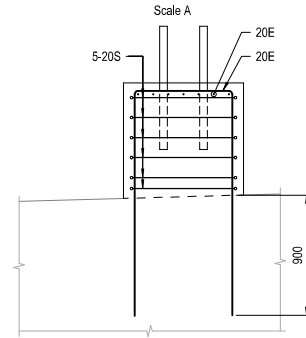


RESTRAINT BLOCK REINFORCEMENT - PLAN

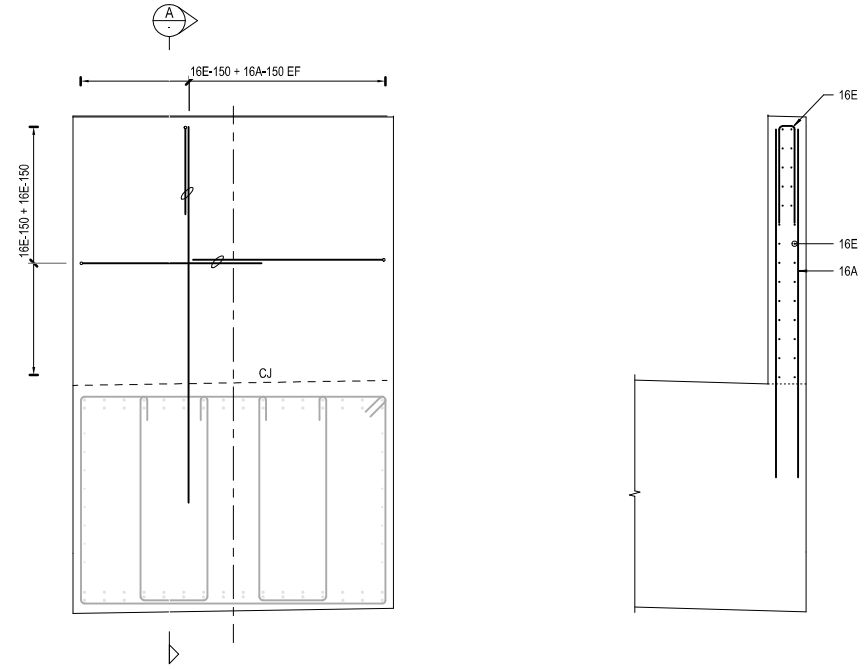
Scale A



TYPICAL ELEVATION



TYPICAL ELEVATION

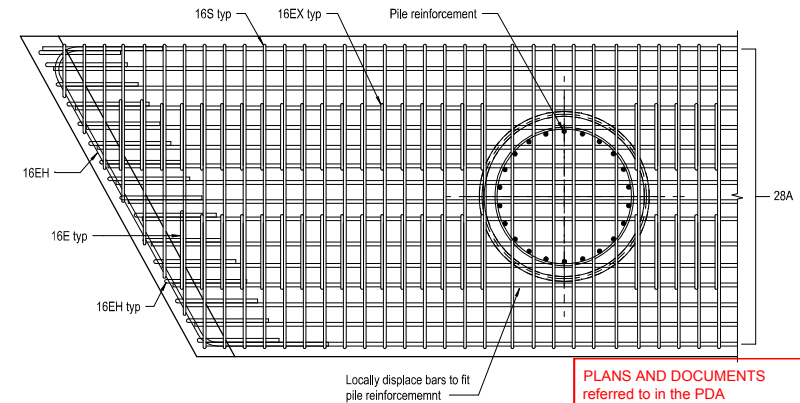


TYPICAL PIER SIDE WALL - SECTION

Scale B

SECTION A

Scale B



TYPICAL PIER - PART PLAN

Scale B

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Original Drawing Size - A1	Dimensions shown in millimetres except where shown otherwise	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived	Original Drawing Size - A1	Dimensions shown in millimetres except where shown otherwise	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	PIER REINFORCEMENT DETAILS SHEET 2	01099	01099-RFA-BR01-DRG-07011	PR-04 of 4		
									L. O'Driscoll	T. Ford								
									K. Cheng									
									ON BEHALF OF RED FOX ADVISORY									
									RPEC: 35109	Date: 28/08/2025								



Scale A



Scale C



Scale B

Type 'RP#'

Denotes bearing restraint plate orientation

1. For General Notes, refer Series No. NL-01 & NL-02.
2. The geometry of the tapered plates is based on the 100 day hog and girder incline. The hog of each girder shall be measured prior to erection and compared with the predicted hog values. The Contractor shall verify the hog and design incline and make adjustment to the tapered plate if required. Any adjustment shall be approved by the Project Manager.

1. The Measured Hog of each girder shall be surveyed during manufacture at Transfer and at regular intervals prior to transport to site. Tolerances of Hog values shall be to MTRTS73.
2. Where the Measured Hog values vary from these values, adjustment may be required to bridge levels.
3. Measured Hog values shall be submitted to the Administrator prior to casting of the Bearing Pedestals (HOLD POINT).
4. Girders older than 150 days at the time of casting the RC Deck Slab shall not be accepted.
5. The Contractor shall ensure that the top of the Bearing Pedestal is flat and level prior to installing the Elastomeric Bearings.
6. Set out of the Elastomeric Bearing on the Pedestal shall be within +/-3mm of the correct plan position on the Pedestal.
7. Girders shall be seated in accordance with MTRTS75.

1. Bearing tapered plates complying with MRTS75 bolted to the underside of the girders shall be used to take out the hog in the girders as shown on the drawings.
2. The Girder shall be installed as per girder erection sequences shown on Series No. G403.
3. The girder shall be lowered carefully until it just touches the bearing.
4. If the gap between the top surface of the bearing and the bearing tapered plate (measured at any point along the interface) is less than 1mm, the girder shall be placed directly on the bearing.
5. If the gap between the top surface of the bearing and the tapered plate is greater than 1mm, the girder shall be lifted, the tapered plate shall be cleaned of dust and oil and the top surface of the bearing shall be coated with approved epoxy putty (Sikadur 33 or equivalent).
6. The girder shall be lowered and supported on temporary packers and the periphery of the bearing checked to ensure that the entire interface between the girder and bearing is filled with epoxy putty. Surplus epoxy putty squeezed out shall be removed before it has set.
7. If the epoxy putty sets before completion of this operation, the girder shall be lifted and all contact surfaces cleaned before repeating the process
8. After the epoxy putty has fully cured over a period of not less than 48 hours and reached the strength of not less than 60MPa, the temporary packers shall be removed.
9. The Contractor is responsible for ensuring the stability of the girders (longitudinally and laterally) during construction. This may involve temporary bracing between the girders, or temporary propping of the girders..

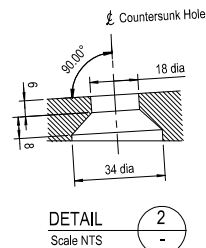
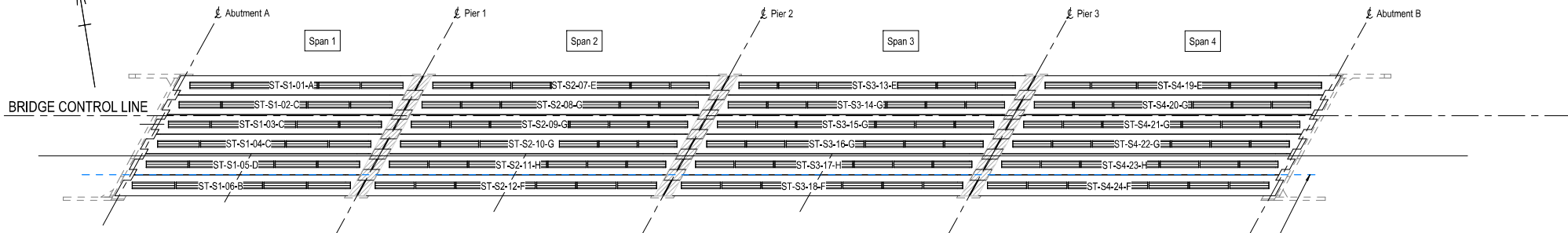


PLATE TYPE	'A'	'B'	No OFF
RPA1	20	26	6
RPP1	22	20	6
RPP2	20	26	18
RPP3	21	20	12
RPA2	21	20	6

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales		Drawn: B. Humphries	Design: K. Cheng	Local Authority: CITY OF MORETON BAY	
A	Issued for Construction			1/09/2025		Datum	GDA2020	A	0 2 4 6 8 10 m	Checked: L. O'Driscoll	Verified: T. Ford	Project: BR01 - CABOOLTURE RIVER BRIDGE	
						Horiz. Datum	MGA Zone 56 (Local Grid)	B	0 100 200 300 400 mm				
						Height Datum	AHD Derived	C	0 50 100 150 200 mm	Approved: K. Cheng		Drawing Title: SUPER-T GIRDERS BEARING LAYOUT	Project No. 01099
						Survey Books		Original Drawing Size: A-1 Dimensions shown in millimetres except where shown otherwise		ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025			Drawing No. 01099-RFA-BR01-L-DWG-08000
													Series Number GB01 of 12 REV: A

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CONSTRUCTION

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GIRDER LAYOUT - PLAN

Scale A

Girder Identification	End Mark		Girder Width 'W'	Girder Depth	Girder Length at Centre Line	End Skew		End Block Type		Number Off	Mass (tonne)
	'M1'	'M2'				'E1'	'E2'	'X'	'Y'		
ST-S1-01-A	Abut. A	Pier 1	2300	1850	28830	633	633	EB1	EB4	1	82
ST-S1-02-C	Abut. A	Pier 1	2300	1850	28830	633	633	EB2	EB5	1	82
ST-S1-03-C	Abut. A	Pier 1	2300	1850	28830	633	633	EB2	EB5	1	82
ST-S1-04-C	Abut. A	Pier 1	2300	1850	28830	633	633	EB2	EB5	1	82
ST-S1-05-D	Abut. A	Pier 1	2500	1850	28830	688	688	EB2	EB5	1	82
ST-S1-06-B	Abut. A	Pier 1	2500	1850	28830	688	688	EB3	EB6	1	82
ST-S2-07-E	Pier 1	Pier 2	2300	1850	36370	633	633	EB4.1	EB4	1	99
ST-S2-08-G	Pier 1	Pier 2	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S2-09-G	Pier 1	Pier 2	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S2-10-G	Pier 1	Pier 2	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S2-11-H	Pier 1	Pier 2	2500	1850	36370	688	688	EB5.1	EB5	1	99
ST-S2-12-F	Pier 1	Pier 2	2500	1850	36370	688	688	EB6.1	EB6	1	99
ST-S3-13-E	Pier 2	Pier 3	2300	1850	36370	633	633	EB4.1	EB4	1	99
ST-S3-14-G	Pier 2	Pier 3	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S3-15-G	Pier 2	Pier 3	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S3-16-G	Pier 2	Pier 3	2300	1850	36370	633	633	EB5.1	EB5	1	99
ST-S3-17-H	Pier 2	Pier 3	2500	1850	36370	688	688	EB5.1	EB5	1	99
ST-S3-18-F	Pier 2	Pier 3	2500	1850	36370	688	688	EB6.1	EB6	1	99
ST-S4-19-E	Pier 3	Abut. B	2300	1850	36370	633	633	EB4.1	EB1.1	1	99
ST-S4-20-G	Pier 3	Abut. B	2300	1850	36370	633	633	EB5.1	EB2.1	1	99
ST-S4-21-G	Pier 3	Abut. B	2300	1850	36370	633	633	EB5.1	EB2.1	1	99
ST-S4-22-G	Pier 3	Abut. B	2300	1850	36370	633	633	EB5.1	EB2.1	1	99
ST-S4-23-H	Pier 3	Abut. B	2500	1850	36370	688	688	EB5.1	EB2.1	1	99
ST-S4-24-F	Pier 3	Abut. B	2500	1850	36370	688	688	EB6.1	EB3.1	1	99

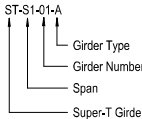
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



LEGEND



NOTES

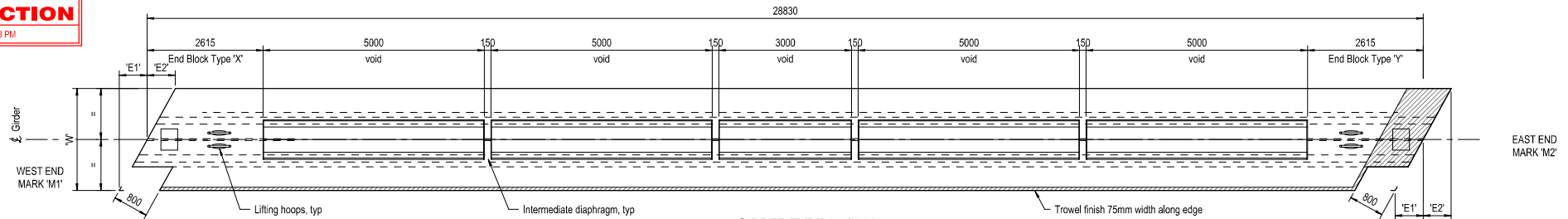
- For General Notes, refer to Series No. NL-01 and NL-02.
- For Girder notes, refer to Series No. GI-03.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GL-02 of 12	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Chang	Design: K. Chang Verified: T. Ford	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	BR01 - CABOOLTURE RIVER BRIDGE	SUPER-T GIRDERS GIRDER LAYOUT	01099	01099-RFA-BR01-DRG-08010				
						Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise	ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025										

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales	Drawn:	Design:	Local Authority: CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE Drawing Title: SUPER-T GIRDBS NOTES	 redfox Project No. 01099 Drawing No. 01099-RFA-BR01-DRG-08020 Series Number GL-03 of 12 REV		
A	Issued for Construction			1/09/2025		Date	GDA2020		Checked:	Verified:			Project:	
						Horiz. Datum	MGA Zone 56 (Local Grid)		L. O'Driscoll	T. Ford				
						Height Datum	AHD Derived		Approved:	K. Chang				Drawing Title:
						Survey Points	Original Drawing Size : A1 Dimensions shown in millimetres except where shown otherwise.		ON BEHALF OF RED FOX ADVISORY RFOED, 35109	Date: 29/08/2025				

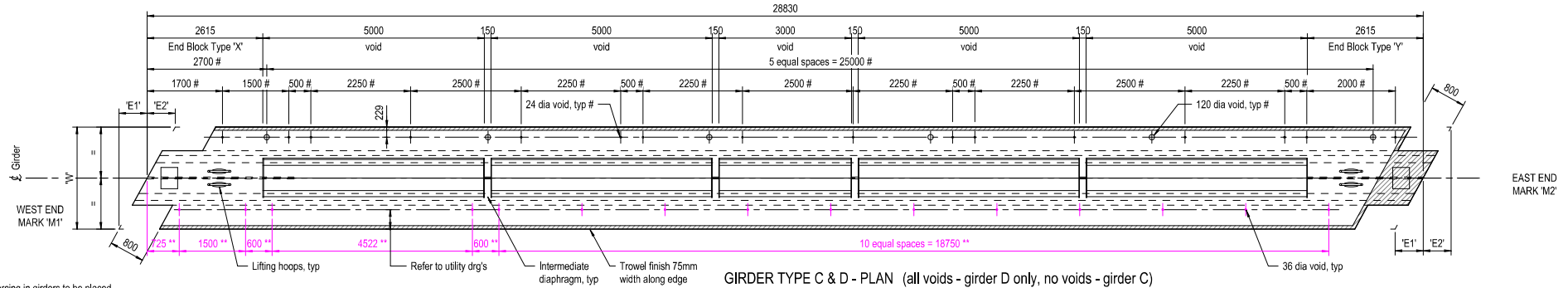
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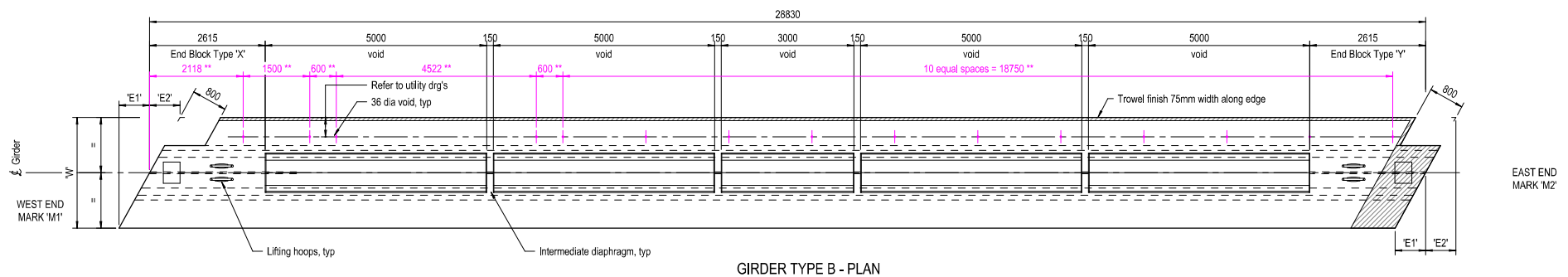
GIRDER TYPE A - PLAN

Scale A



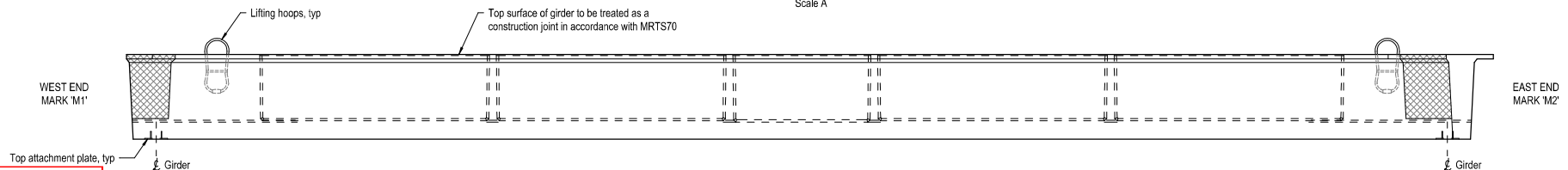
GIRDER TYPE C & D - PLAN (all voids - girder D only, no voids - girder C)

Scale A



GIRDER TYPE B - PLAN

Scale A



TYPICAL GIRDER ELEVATION

Girder Type A Showing (Girders types B, C & D similar)

Scale A

LEGEND

- Denotes extent of top surface of girder to be steel trowel finished
- Denotes extent of side surface of girder to be treated as construction joint interface, Refer MRTS70.

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- Refer to utility drawings for setout of voids for pipe hangers. Prior to casting of girders, the setout for pipe hanger voids must be confirmed with both the Designer and Utility engineers.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



Denotes void setout in girder ST-S1-05-D only
** Denotes void setout in girders ST-S1-06-B and ST-S1-05-D only

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Original Drawing Size - A1	Dimensions shown in millimetres except where shown otherwise	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GL-04 of 12	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:			B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	SUPER-T GIRDERS CONCRETE DETAILS SHEET 1	01099	01099-RFA-BR01-DRG-08030				

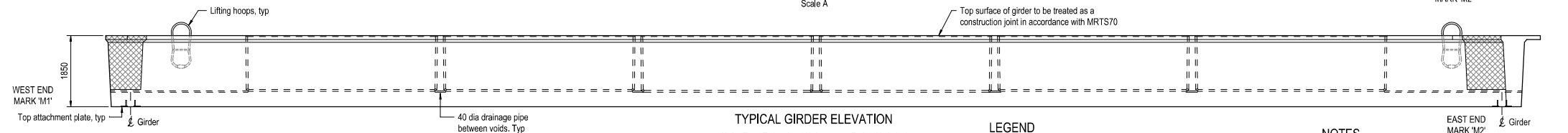
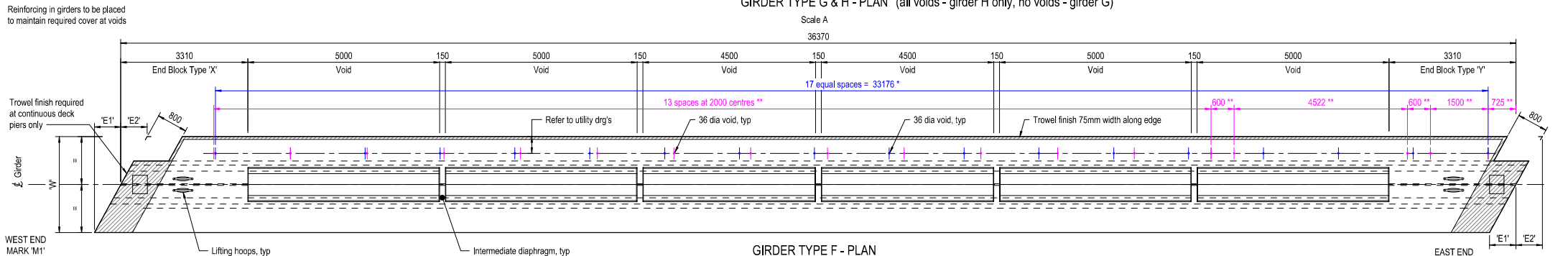
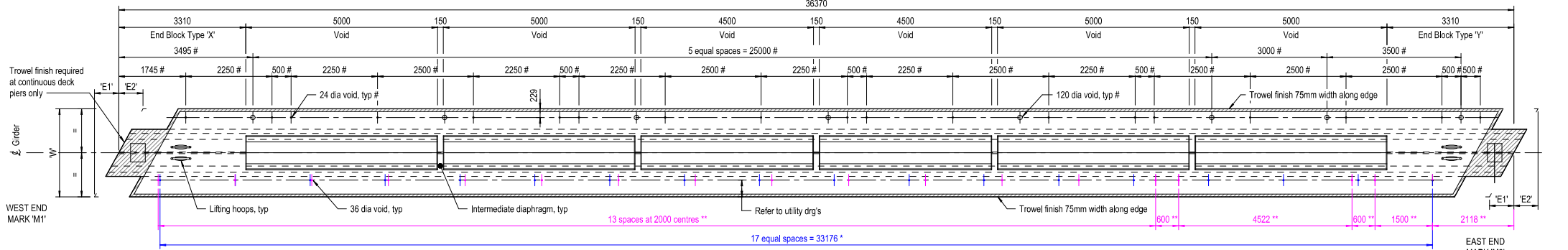
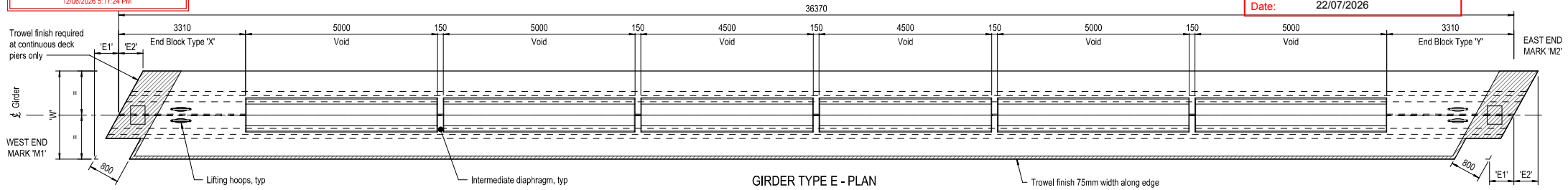
ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



Denotes voids are ONLY in girder ST-S2-11-H
* Denotes void setout in Girders ST-S2-12-F, ST-S3-18-F, ST-S2-11-H, and ST-S3-17-H only
** Denotes void setout in girder ST-S4-24-F and ST-S4-23-H only
For * and ** voids refer note 2

LEGEND

- Denotes extent of top surface of girder to be steel trowel finished
- Denotes extent of side surface of girder to be treated as construction joint interface, Refer MRTS70.

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- Refer to utility drawings for setout of voids for pipe hangers. Prior to casting of girders, the setout for pipe hanger voids must be confirmed with both the Designer and Utility engineers.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
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Original Drawing Size : A1	
Dimensions shown in millimetres except where shown otherwise	

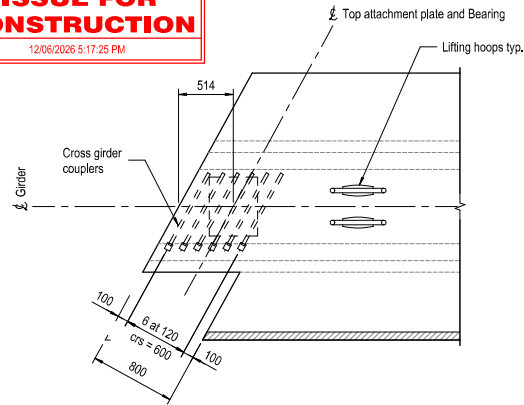
Drawn: S. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY	
RPEQ: 35109	Date: 28/08/2025

Local Authority: CITY OF MORETON BAY	
BR01 - CABOOLTURE RIVER BRIDGE	
Drawing Title: SUPER-T GIRDERS CONCRETE DETAILS	
SHEET 2	

Project No. 01099	
Drawing No. 01099-RFA-BR01-DRG-08031	
Series Number	GL-05 of 12 REV A

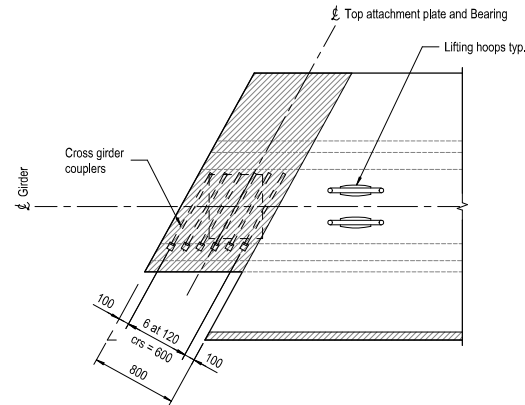
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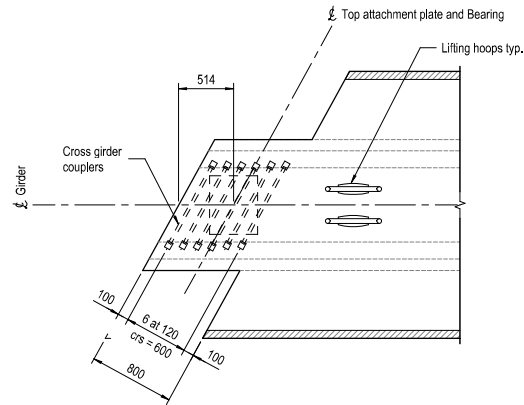
END BLOCK TYPE 'X' EB1 (TYPE 'Y' EB1.1 OPPOSITE HAND) - PLAN

Scale A



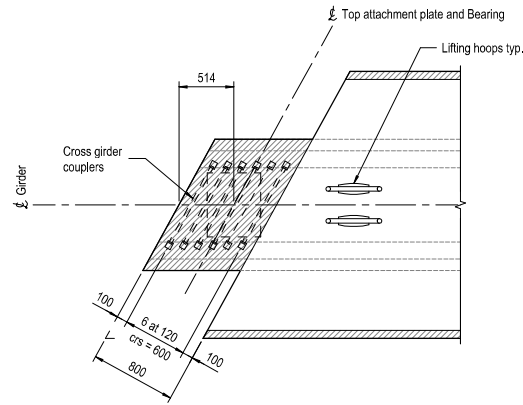
END BLOCK 'X' EB4.1 (TYPE 'Y' EB4 OPPOSITE HAND) - PLAN

Scale A



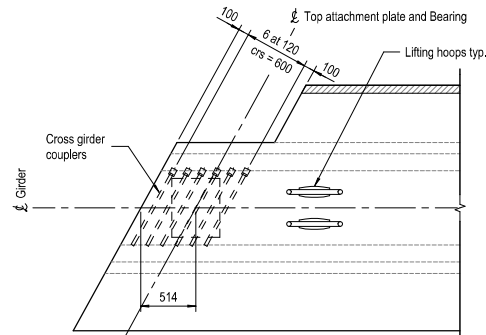
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Scale A



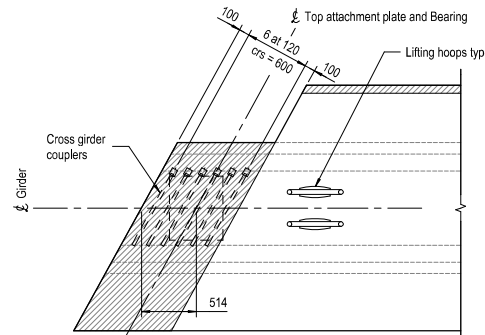
END BLOCK 'X' EB5.1 (TYPE 'Y' EB5 OPPOSITE HAND) - PLAN

Scale A



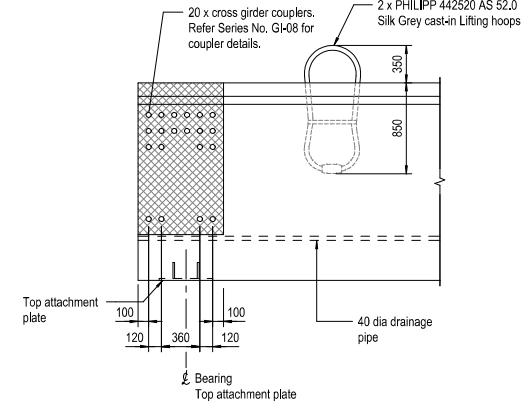
END BLOCK 'X' EB3 (TYPE 'Y' EB3.1 OPPOSITE HAND) - PLAN

Scale A



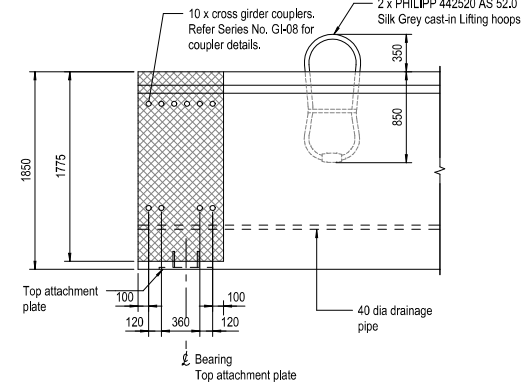
END BLOCK 'X' EB6.1 (TYPE 'Y' EB6 OPPOSITE HAND) - PLAN

Scale A



TYPICAL GIRDER END BLOCK - ELEVATION

Scale A



END BLOCK TYPES EB3 & EB6.1 (TYPE EB3.1 & EB6 OPPOSITE HAND) - ELEVATION

Scale A

LEGEND



Denotes extent of top surface of girder to be steel trowel finished

Denotes extent of side surface of girder to be treated as construction joint interface. Refer MRTS70.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



Stockland

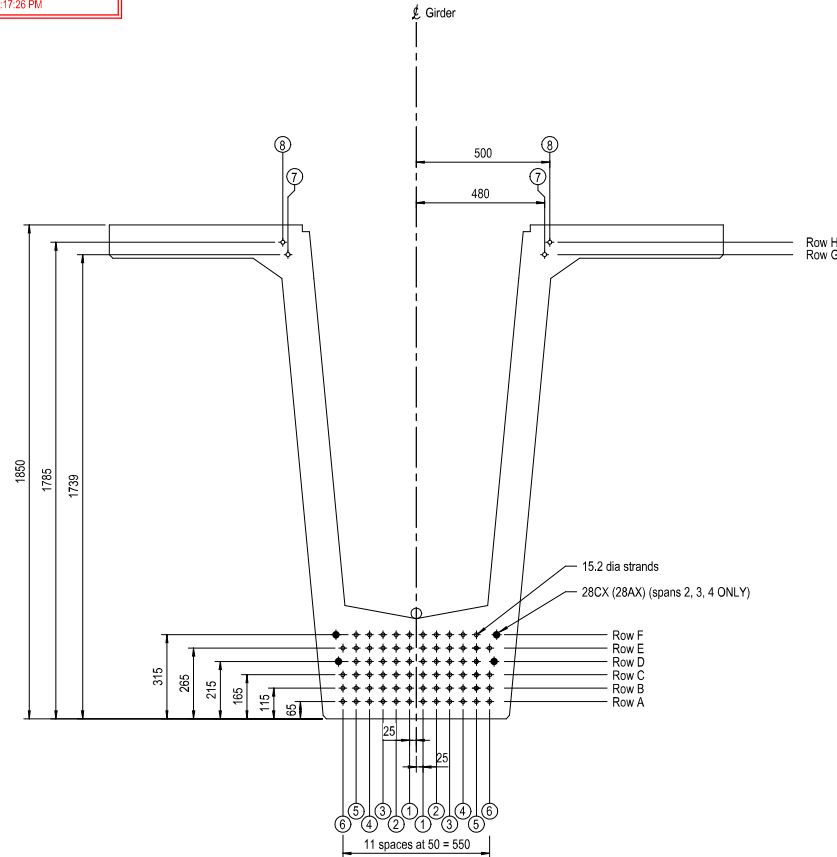
Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 500 1000mm
Original Drawing Size : A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY	
RPEQ: 35109	Date: 28/08/2025

Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	SUPER-T GIRDERS CONCRETE DETAILS SHEET 3

Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-08032
Series Number	GL-06 of 12
REV	A



TYPICAL SUPER-T GIRDER STRAND PATTERN ARRANGEMENT

Scale A

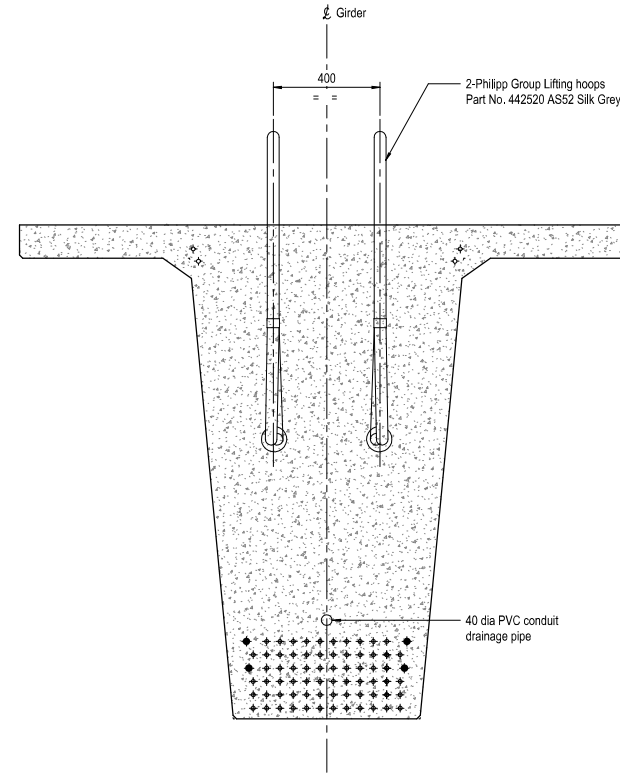
For strand No.'s and debonding refer 'STRAND DEBONDING TABLE'

STRAND DEBONDING TABLE - SPAN 1

STRAND No.	STRAND LOCATION AND LENGTH OF DEBONDING "LD"								STRANDS PER ROW
	1	2	3	4	5	6	7	8	
ROW H								0	2
ROW G									0
ROW F									0
ROW E			0	0	9000	0			8
ROW D	0	9000	0	9000	0	9000			12
ROW C	6000	0	6000	0	6000	0			12
ROW B	0	6000	0	6000	0	6000			12
ROW A	4500	0	4500	0	4500	0			12
TOTAL STRANDS PER GIRDER									58

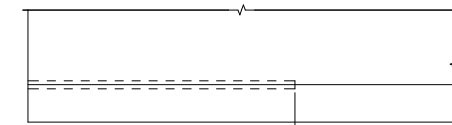
STRAND DEBONDING TABLE - SPANS 2, 3, 4

STRAND No.	STRAND LOCATION AND LENGTH OF DEBONDING "LD"								STRANDS PER ROW
	1	2	3	4	5	6	7	8	
ROW H							0	0	2
ROW G							0	0	2
ROW F	0	13500	0	0	0				10
ROW E	0	0	13500	0	9000	0			12
ROW D	0	9000	0	9000	0				10
ROW C	6000	0	6000	0	6000	0			12
ROW B	0	4500	0	6000	0	4500			12
ROW A	0	0	4500	0	4500	0			12
TOTAL STRANDS PER GIRDER									72



LIFTING HOOP DETAIL

Scale A



Strands shall be debonded at both ends over the tabulated length

STRAND DEBONDING DETAIL

Scale NTS

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.



Project No. 01099

Drawing No. 01099-RFA-BR01-DRG-08033

Series Number GL-07 of 12 REV A

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



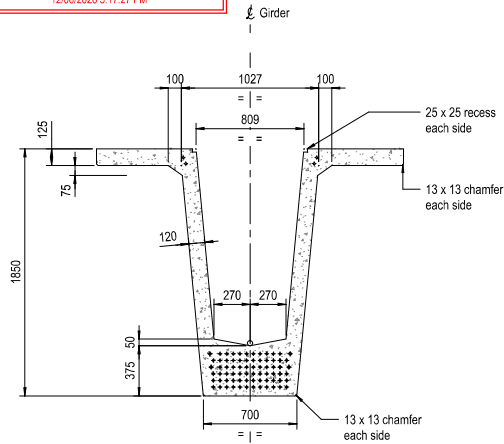
Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Original Drawing Size: A1

Dimensions shown in millimetres except where shown otherwise

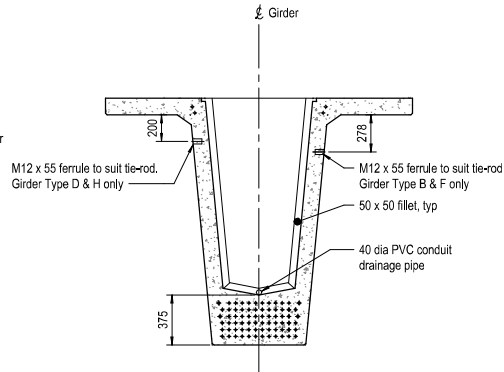
Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY	
RPEQ: 35109	Date: 28/08/2025

Local Authority: CITY OF MORETON BAY
Project: BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title: SUPER-T GIRDERS CONCRETE DETAILS SHEET 4



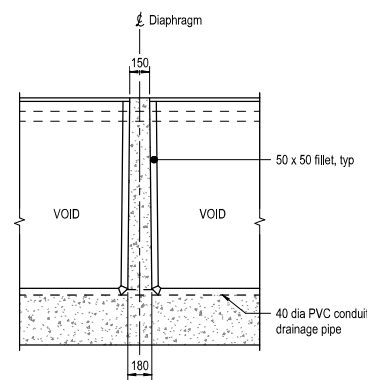
TYPICAL SECTION

Scale A



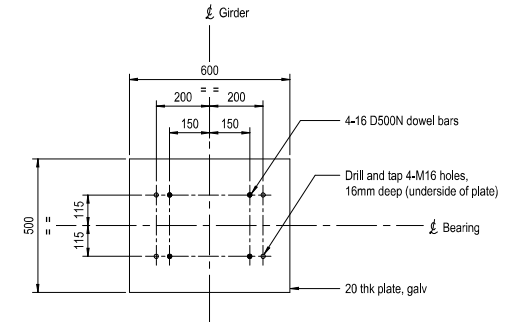
INTERMEDIATE DIAPHRAGM

Scale A



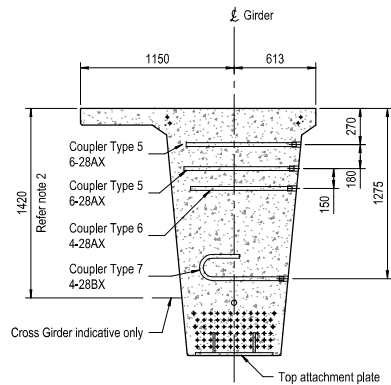
INTERMEDIATE DIAPHRAGM SECTION

Scale A



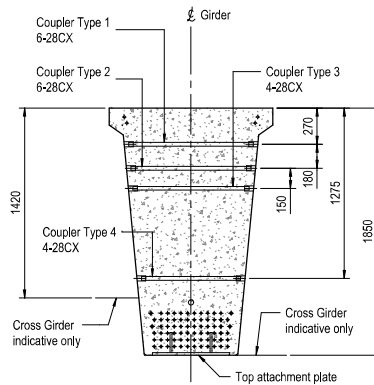
TOP ATTACHMENT PLATE - PLAN

Scale B



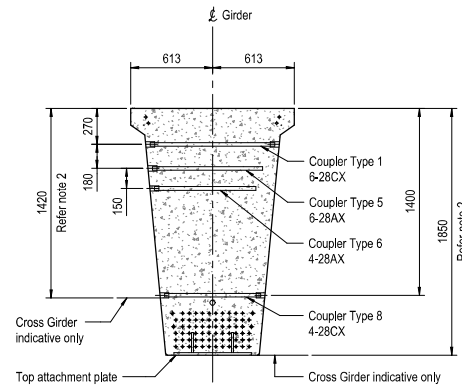
COUPLERS GIRDER EXTERNAL TYPE A & E

Scale A



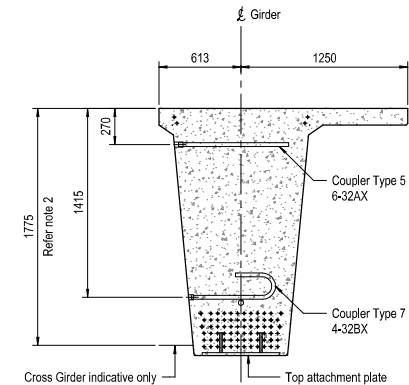
COUPLERS GIRDER INTERNAL TYPE C & G

Scale A



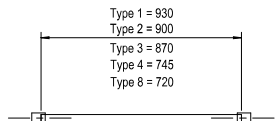
COUPLERS GIRDER INTERNAL TYPE D & H

Scale A



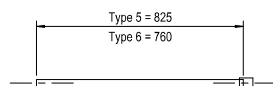
COUPLERS GIRDER EXTERNAL TYPE B & F

Scale A



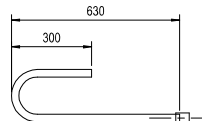
COUPLER TYPE 1, 2, 3 & 4

Scale B



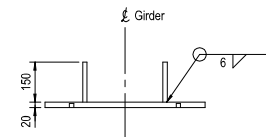
COUPLER TYPE 5 & 6

Scale B



COUPLER TYPE 7

Scale B



ELEVATION - TOP ATTACHMENT PLATE

Scale B

COUPLER SCHEDULE

Coupler Type	No. off
1	192
2	144
3	96
4	96
5	192
6	64
7	64
8	32

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- All girder surfaces in contact with cross girder concrete to be prepared as a construction joint to MRTS70.



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-08034
Series Number	GL-08 of 12
REV	A

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025

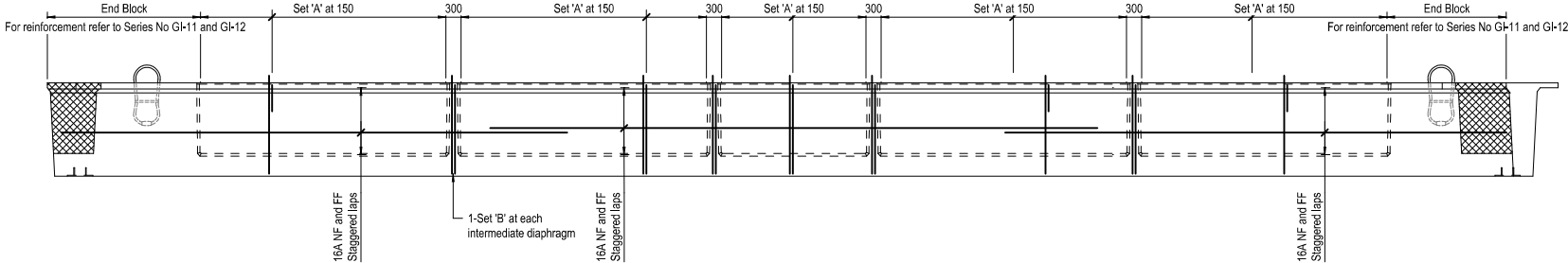


Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 200 400 600 800 mm
B	0 100 200 300 400 mm

Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng	Date:	28/08/2025

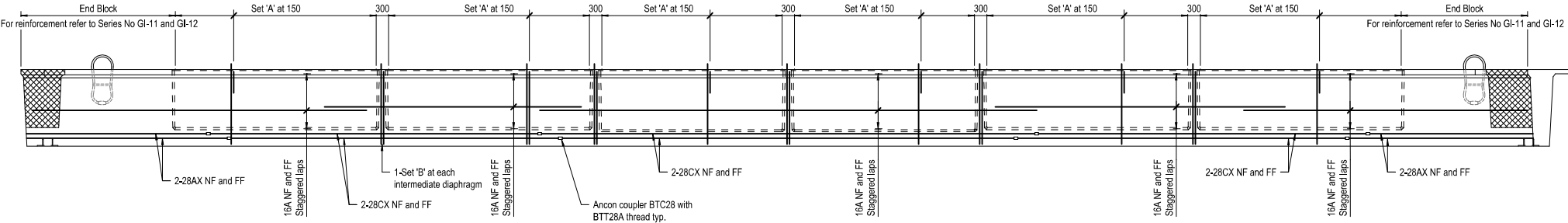
Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	SUPER-T GIRDERS CONCRETE DETAILS
	SHEET 5



ELEVATION - GIRDER TYPE A

Scale A

GIRDER TYPES B,C & D SIMILAR



GIRDER TYPE E - ELEVATION

Scale A

GIRDER TYPES F,G & H SIMILAR

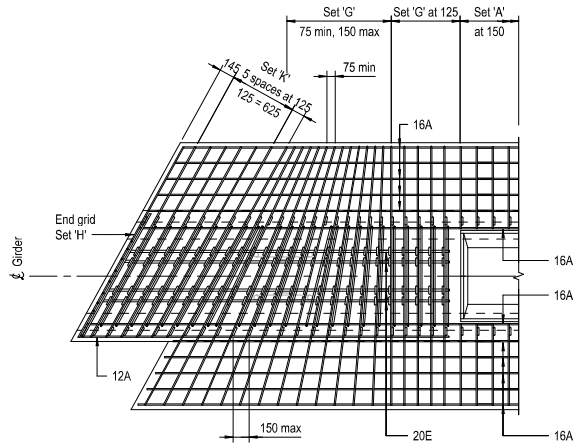
PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026

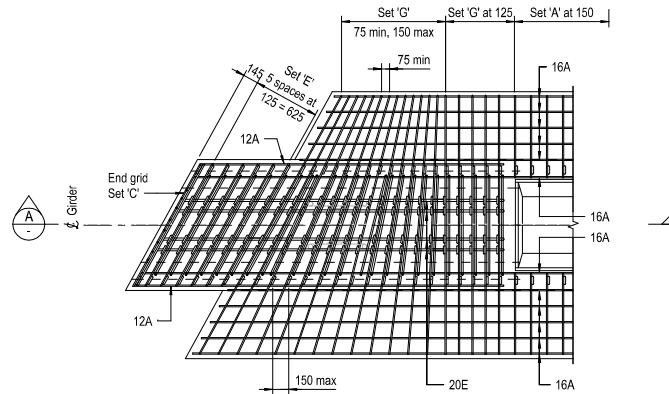
- NOTES
1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:		Project No.	01099
A	Issued for Construction			1/09/2025		Datum: GDA2020	A 0 1 2 m	B. Humphries	K. Cheng	CITY OF MORETON BAY		Drawing No.	01099-RFA-BR01-DRG-08040
						Horiz. Datum: MGA Zone 56 (Local Grid)		Checked: L. O'Driscoll	Verified: T. Ford	BR01 - CABOOLTURE RIVER BRIDGE		Series Number	GI-09 of 12
						Height Datum: AHD Derived		Approved: K. Cheng		Drawing Title: SUPER-T GIRDERS REINFORCEMENT DETAILS		REV	A
						Survey Books	Original Drawing Size - A1 Dimensions shown in millimetres except where shown otherwise	ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025		SHEET 1			



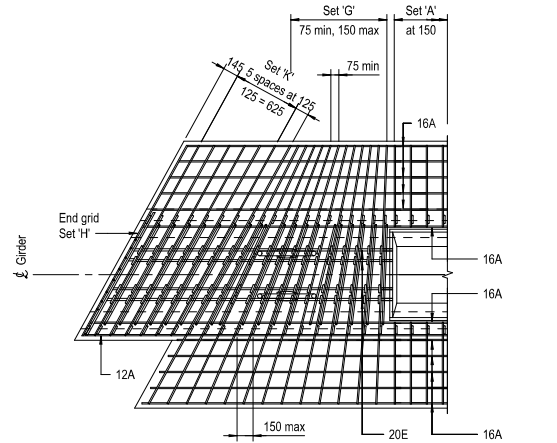
END BLOCK TYPE EB4.1 (TYPE EB4 OPPOSITE HAND) - PLAN

Scale A



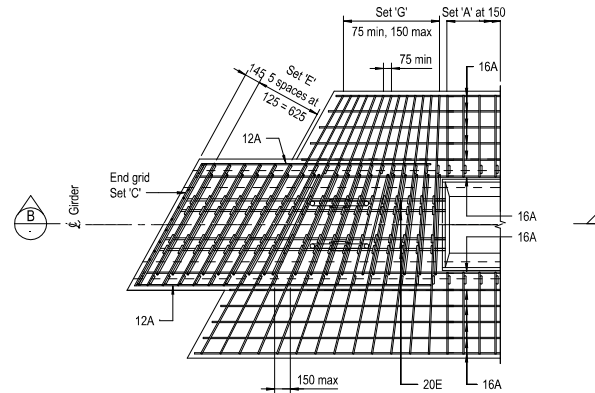
END BLOCK TYPE EB5.1 (TYPE EB5 OPPOSITE HAND) - PLAN

Scale A



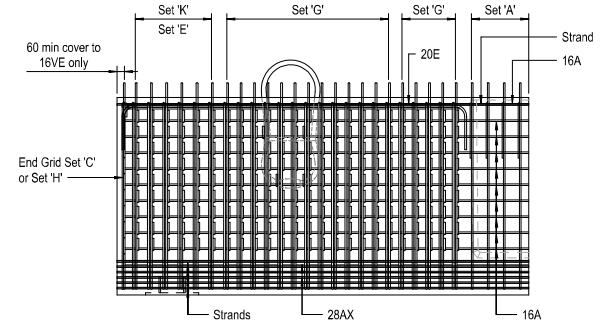
END BLOCK TYPE EB1 (TYPE EB1.1 OPPOSITE HAND) - PLAN

Scale A

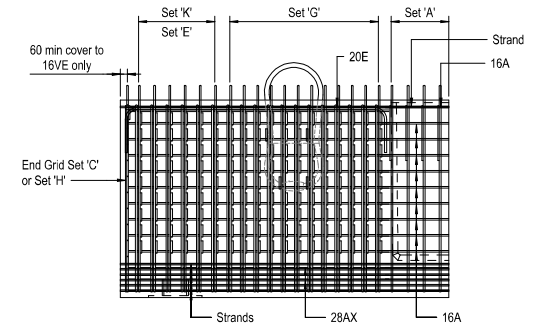


END BLOCK TYPE EB2 (TYPE EB2.1 OPPOSITE HAND) - PLAN

Scale A



SECTION A



SECTION B

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026

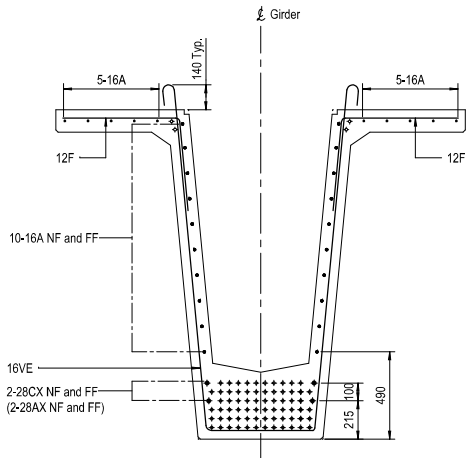


NOTES

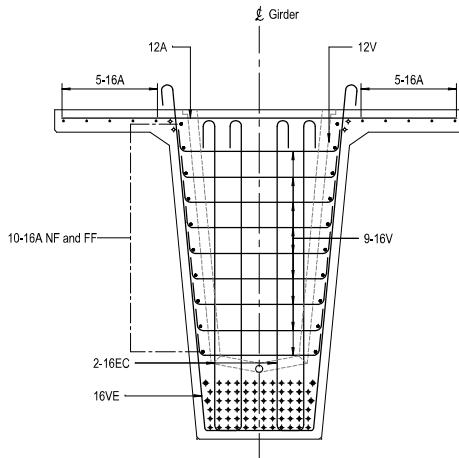
- For General Notes, refer to Series No. NL-01 and NL-02.
- Reinforcement may be displaced slightly to clear girder starter bars and lifting hoops where necessary.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scale	Drawn:	Design:	Local Authority:	Drawing Title:	Project:	Series Number	Rev	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books	A 0 200 400 600 800 mm	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	BR01 - CABOOLTURE RIVER BRIDGE	01099		
								L. O'Driscoll	T. Ford		SUPER-T GIRDERS REINFORCEMENT DETAILS		01099-RFA-BR01-DRG-08041		
								K. Cheng			SHEET 2				
								ON BEHALF OF RED FOX ADVISORY							
								RPEQ: 35109	Date: 28/08/2025						

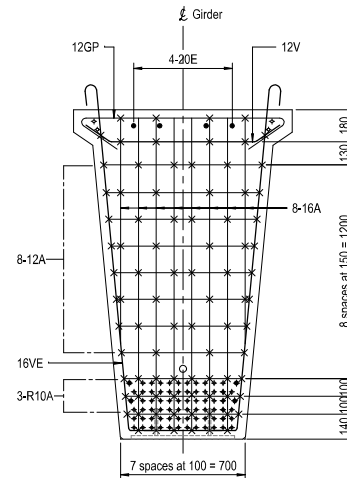
In end grid: 16A bars sit inside the 16VE/VF bars. 12A, 12V, 12G/12GP and R10A sit beside 16VE/16VF and 16A bars (set is 2 bars wide).
In end blocks: 16V bars to sit inside the 16VE/16VF bars (set is two bars wide).
In diaphragms: 16V bars to sit beside the 16VE and 16EC bars (set is three bars wide).



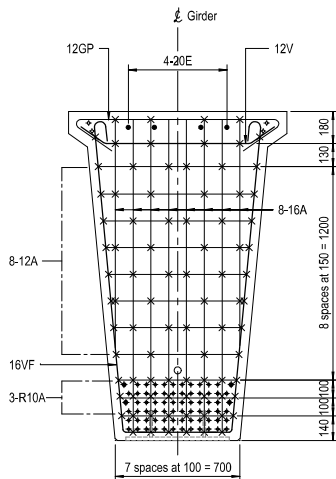
REINFORCEMENT SET 'A'



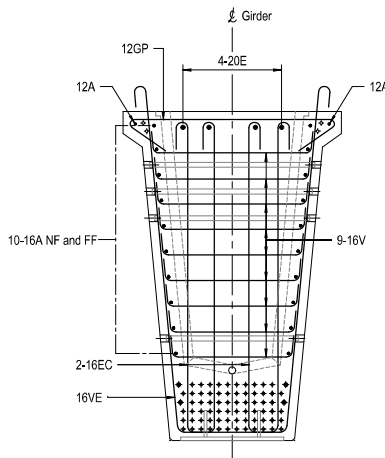
INTERMEDIATE DIAPHRAGM
REINFORCEMENT SET 'B'



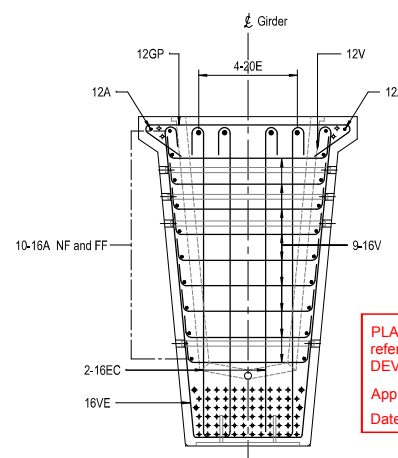
END GRID
REINFORCEMENT SET 'C'



END GRID
REINFORCEMENT SET 'D'



REINFORCEMENT SET 'E'



REINFORCEMENT SET 'F'

GIRDER REINFORCEMENT - SECTIONS

Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026

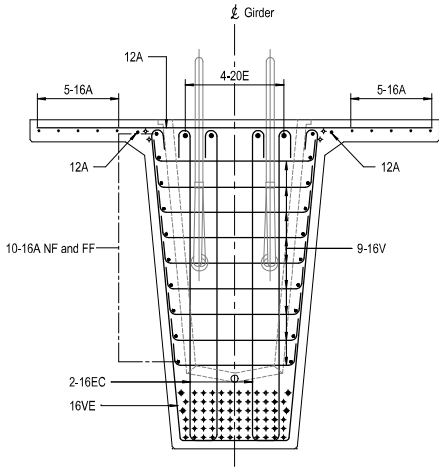
× Denotes weld
locations

NOTES

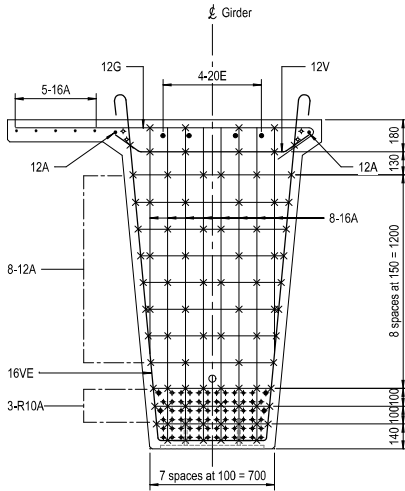
1. For General Notes, refer to Series No. NL-01 and NL-02.
2. For Girder Notes, refer Series No GI-03.
3. For Super-T Girder dimensions & Girder Schedule, refer Series No GI-02.
4. All sections taken perpendicular to girder centreline.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scale	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GL-11 of 12	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A 0 150 300 450 600 mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEC, 35109 Date: 28/08/2025	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	Project:	Drawing Title: SUPER-T GIRDERS REINFORCEMENT DETAILS SHEET 3	01099	01099-RFA-BR01-DRG-08042				

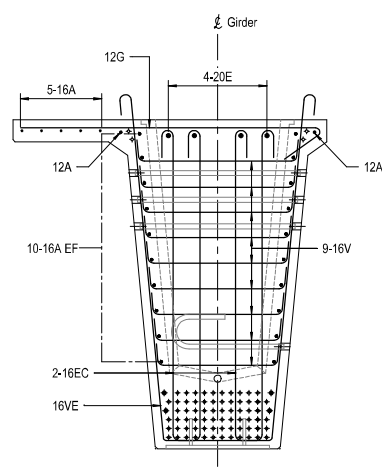
In end grid: 16A bars sit inside the 16VE/VF bars. 12A, 12V, 12G/12GP and R10A sit beside 16VE/16VF and 16A bars (set is 2 bars wide).
In end blocks: 16V bars to sit inside the 16VE/16VF bars (set is two bars wide).
In diaphragms: 16V bars to sit beside the 16VE and 16EC bars (set is three bars wide).



REINFORCEMENT SET 'G'
Length varies splayed bar



END GRID
REINFORCEMENT SET 'H'



REINFORCEMENT SET 'K'

GIRDER REINFORCEMENT - SECTIONS
Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



× Denotes weld
locations

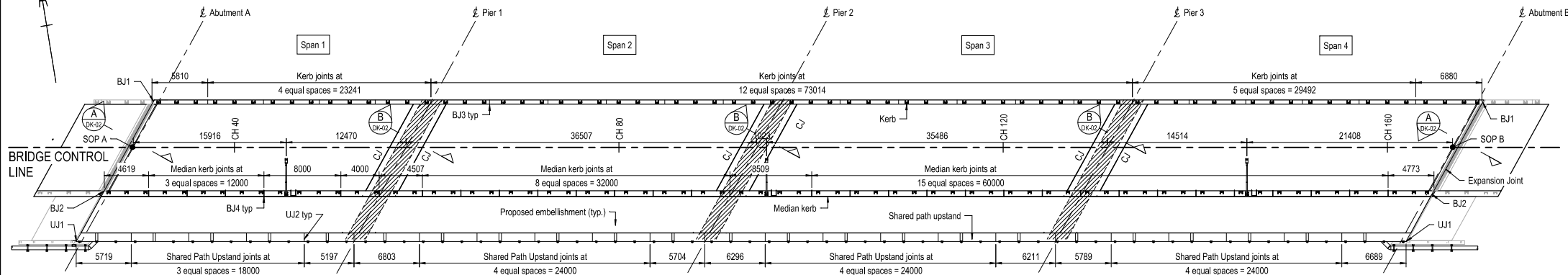
NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For Girder Notes, refer Series No GI-03.
- For Super-T Girder dimensions & Girder Schedule, refer Series No GI-02.
- All sections taken perpendicular to girder centreline.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	GL-12 of 12	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived	A 0 150 300 450 600 mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BE-HALF OF RED FOX ADVISORY RPEQ: 35109	Design: K. Cheng Verified: T. Ford Date: 28/08/2025	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	SUPER-T GIRDERS REINFORCEMENT DETAILS SHEET 4	01099 01099-RFA-BR01-DRG-08043						

ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

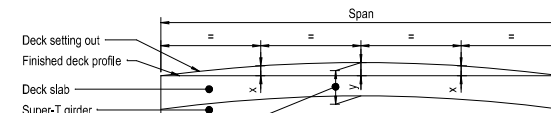
Approval no: DEV-2026-WAR-499

Date: 22/07/2026



DECK - PLAN

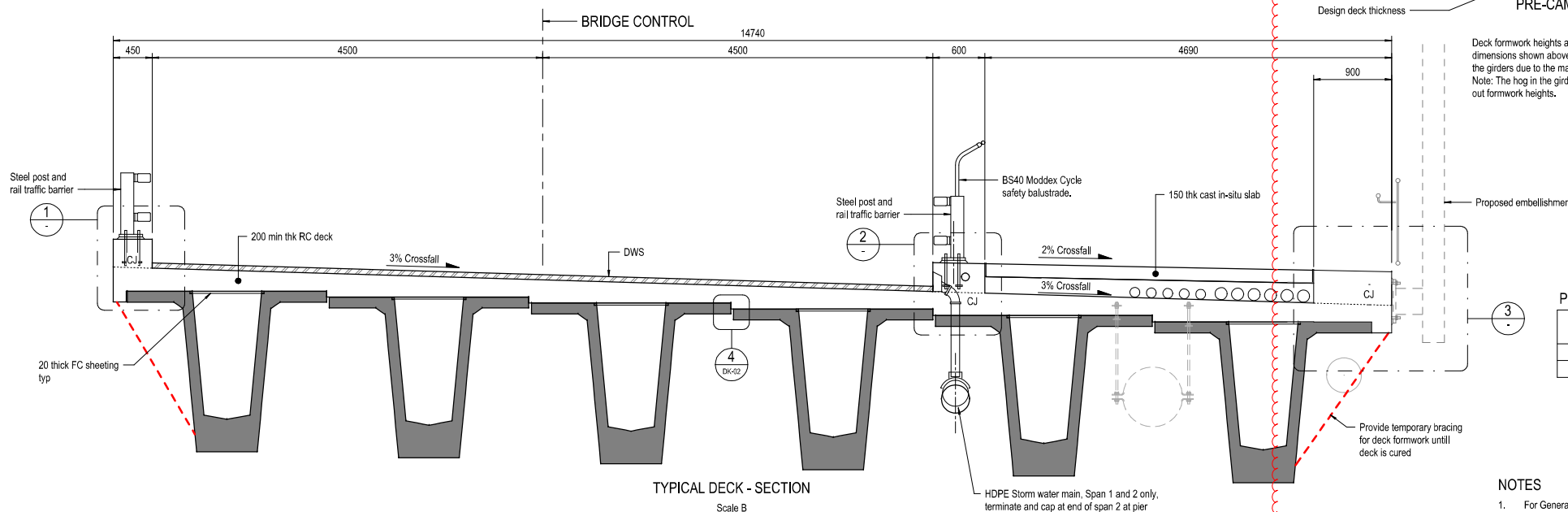
Scale A



PRE-CAMBER DIAGRAM

Scale NTS

Deck formwork heights at kerts to be set with an upward camber to the dimensions shown above to compensate for the downward deflection of the girders due to the mass of the RC deck slab and DWS.
Note: The hog in the girders preclude their use as a datum for setting out formwork heights.



TYPICAL DECK - SECTION

Scale B

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

PRE-CAMBER SCHEDULE

SPAN	DIMENSION (mm)	
	x	y
2, 3, 4	18	24
	9	11

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025
B	Re-issued for Construction			27/02/2026
C	Amended to show Vent Pipe			02/04/2026



Stockland

Client:

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 2 4 6 8 m
B	0 500 1000mm
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEQ: 35109		Date: 28/08/2025	

Local Authority:

CITY OF MORETON BAY
BR01 - CABOOLTURE RIVER BRIDGE

Drawing Title:

DECK CONCRETE DETAILS
SHEET 1



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-09000
Series Number	DK-01 of 11
REV	C

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Abutment B similar but opposite handed



Scale A DK-01



Scale B DK-01



Queensland
Government

Queensland
Government



Scale B DK-01



Scale B	DK-01
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Scale B DK-01

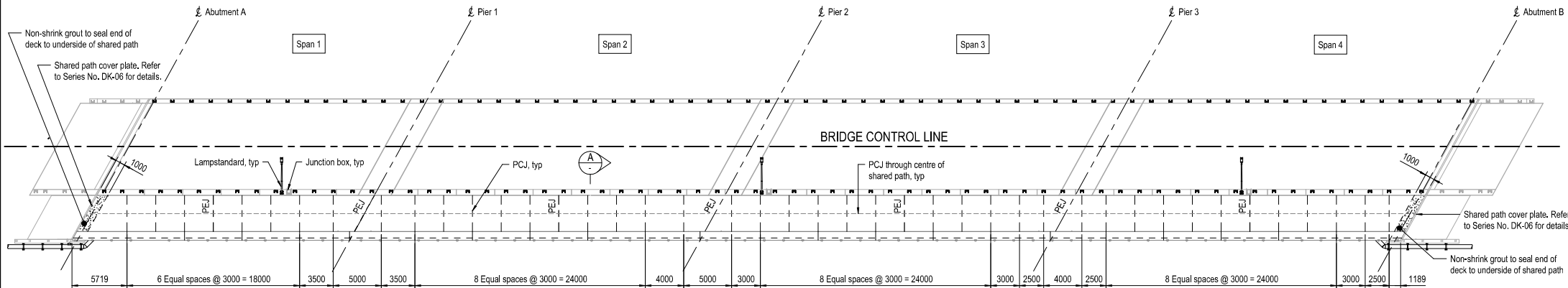


1. For General Notes, refer to Series No. NL-01 and NL-02.

Revisions/Descriptions					Ref.	Certification	Date	Client:  Stockland	Survey Data		0200400600800 mm A 0100200300400 mm B	Drawn:	Design:	Local Authority:	 redfox	
A	Issued for Construction					1/09/2025	Date:		GDA2020	B. Humphries		K. Cheng	CITY OF MORETON BAY			
B	RT144 Traffic Rail Amendments					20/02/2026	Horiz. Datum:		MGA Zone 56 (Local Grid)	Checked:		Verified:	BR01 - CABOOLTURE RIVER BRIDGE			
C	Re-issued for Construction					27/02/2026	Height Datum:		AHD Derived	L. O'Donnell		T. Ford				
							Survey Points:			Approved:						
										Original Drawing Size: A1	ON BEHALF OF RED FOX ADVISORY		Drawing Title:		Project No.	01099
										REDCO, 35/109	Date: 29/08/2025		DECK CONCRETE DETAILS SHEET 2		Drawing No.	01099-RFA-BR01-DRG-09001
															Series Number	DK-02 of 11
															REV	

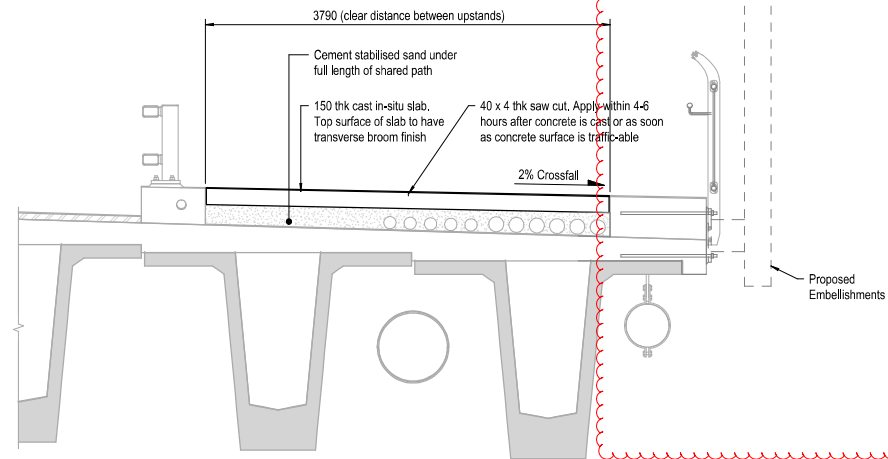
ISSUE FOR CONSTRUCTION

12/06/2026 5:17 44 PM



SHARED PATH - PLAN

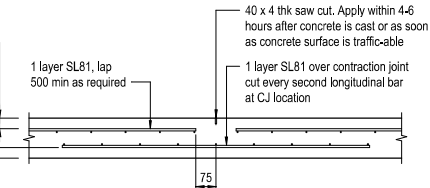
Scale A



SECTION

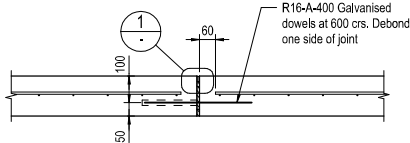
Scale B

A



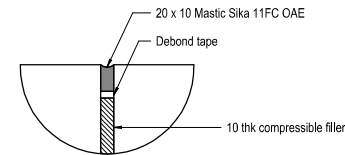
PCJ - TYPICAL PAVEMENT CONTRACTION JOINT DETAIL

Scale C



PEJ - TYPICAL PAVEMENT EXPANSION JOINT DETAIL

Scale C



DETAIL

Scale NTS

1

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025
B	Re-issued for Construction			27/02/2026
C	Amended to show Vent Pipe			02/04/2026



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 2 4 6 8 m
B	0 500 1000mm
C	0 100 200 300 400mm
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEQ: 35109 Date: 28/08/2025			

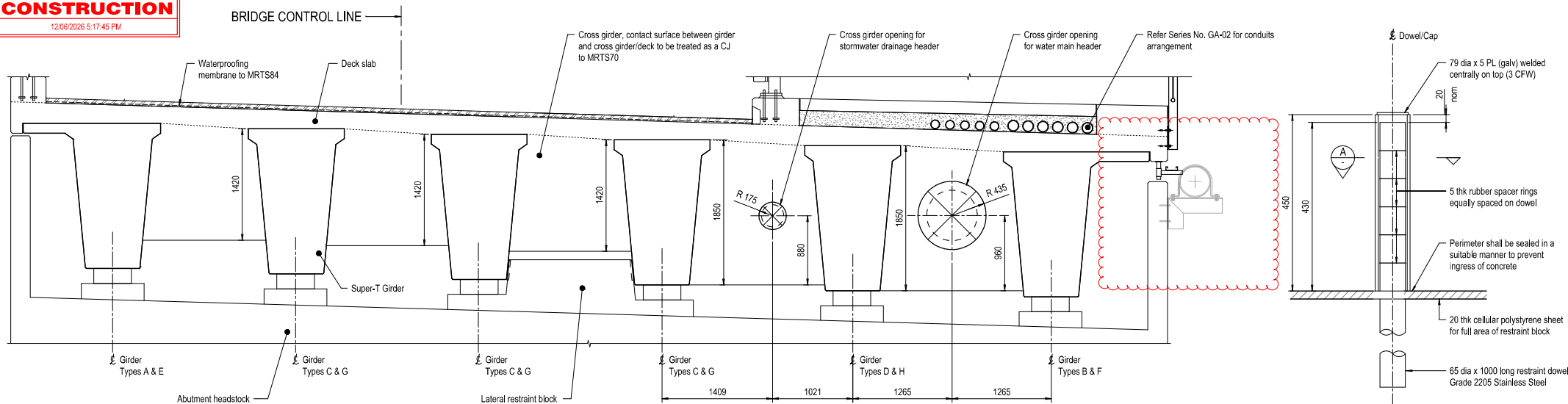
Local Authority:	CITY OF MORETON BAY
	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	DECK CONCRETE DETAILS
	SHEET 3

Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-09002
Series Number	DK-03 of 11
REV	C



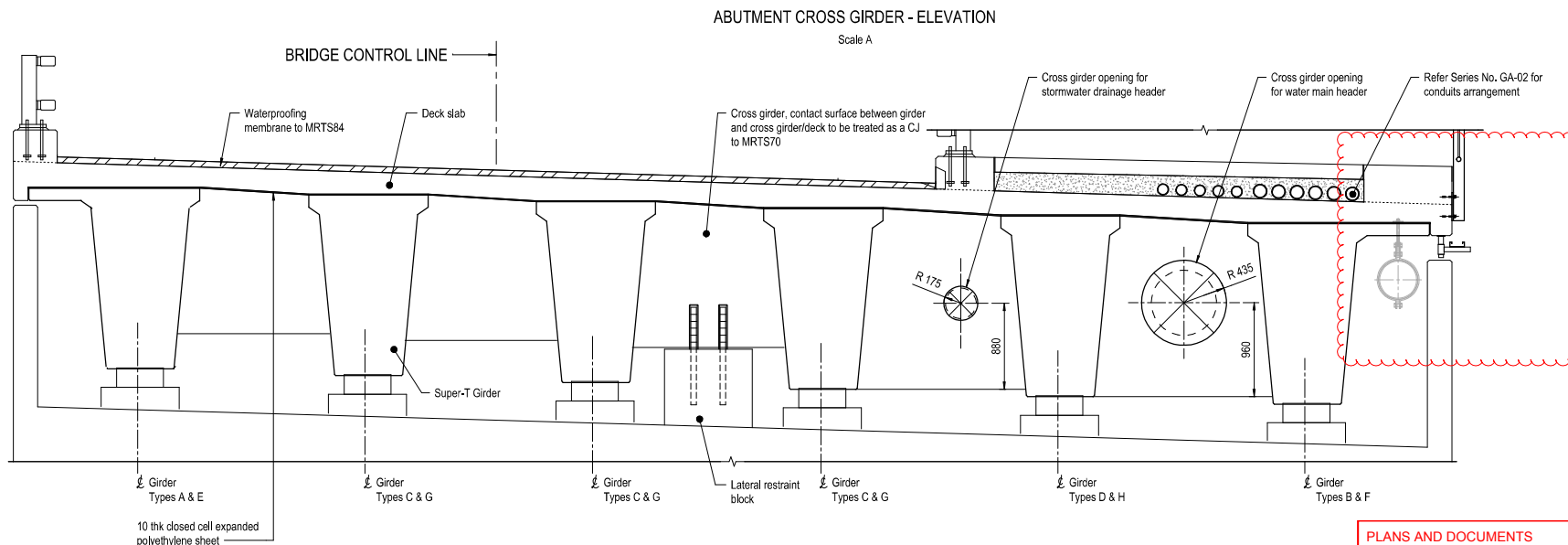
ISSUE FOR CONSTRUCTION

12/06/2026 5:17 45 PM



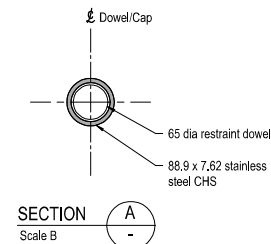
RESTRAINT BLOCK DOWEL AND CAP

Scale B



TYPICAL PIER - ELEVATION

Scale B



RESTRAINT BLOCK

1. Restraint Dowel to be cast in with restraint block. Upper section is to be sealed within sleeves/cap as shown.
2. Interface between abutment/pier and cross girders shall be sealed around the closed cell polystyrene board ensuring a seal to prevent pollutants and ensuring a dry environment.
3. Dowel caps to be restrained in place prior to concrete pour of cross girder to ensure expansion dowel cap is centralised and vertically aligned.
4. Polystyrene board / bottom of restraint dowel ends to be sealed to prevent any ingress of concrete.
5. Casting of cross girder should be carried out with bridge temperature of approximately 25°C.
6. Dowels to be Grade 2205 Stainless Steel with a minimum yield strength of 450MPa.
7. Contractor to review dowel support arrangements to suit construction requirements.

NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

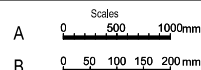
Approval no: DEV-2026-WAR-499
Date: 22/07/2026



Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025
B	Amended to show Vent Pipe			02/04/2026



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

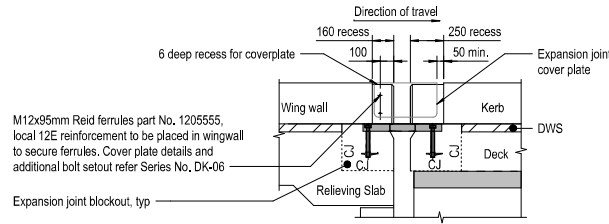


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Dimensions shown in millimetres except where shown otherwise

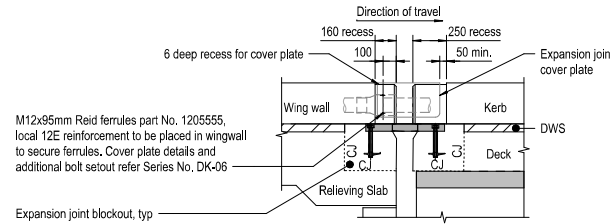
Drawn:	B. Humphries	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEQ: 35109		Date: 28/08/2025	

Local Authority:	CITY OF MORETON BAY
	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	DECK CONCRETE DETAILS SHEET 4

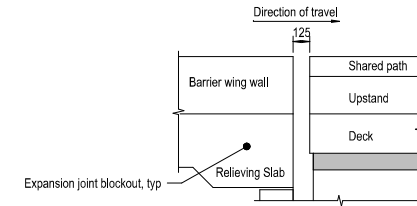
redfox	
Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-09003
Series Number	DK-04 of 11
REV	B



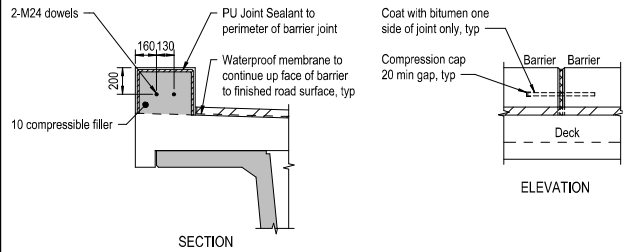
KERB EXPANSION JOINT (BJ1)



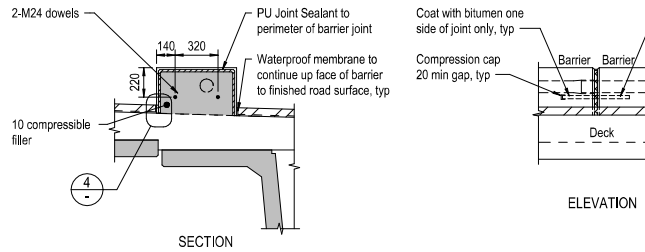
MEDIAN KERB ABUTMENT JOINT (BJ2)



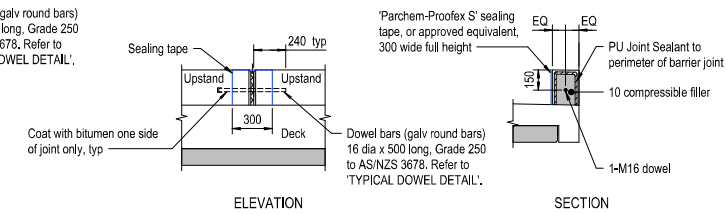
SHARED PATH UPSTAND JOINT (UJ1)



TYPICAL KERB JOINT (BJ3)



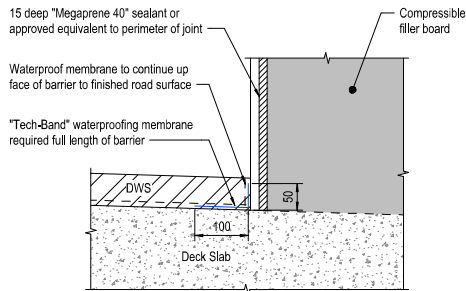
TYPICAL MEDIAN KERB JOINT (BJ4)



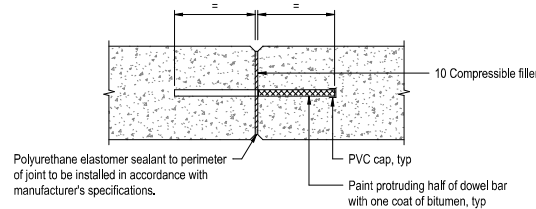
TYPICAL SHARED PATH UPSTAND JOINT (UJ2)

TYPICAL JOINT DETAILS

Scale A

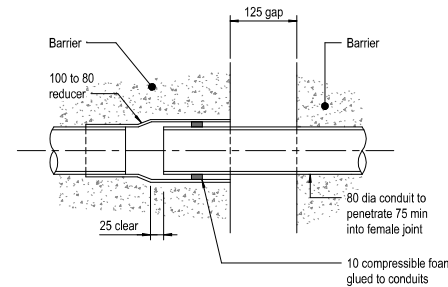


DETAIL 4 Scale C



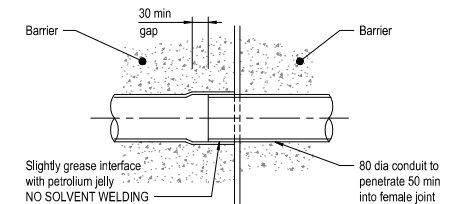
TYPICAL DOWEL DETAIL

Scale B



CONDUIT JOINT DETAIL FOR BJ2

Scale C



CONDUIT JOINT DETAIL FOR BJ5

Scale C

NOTES

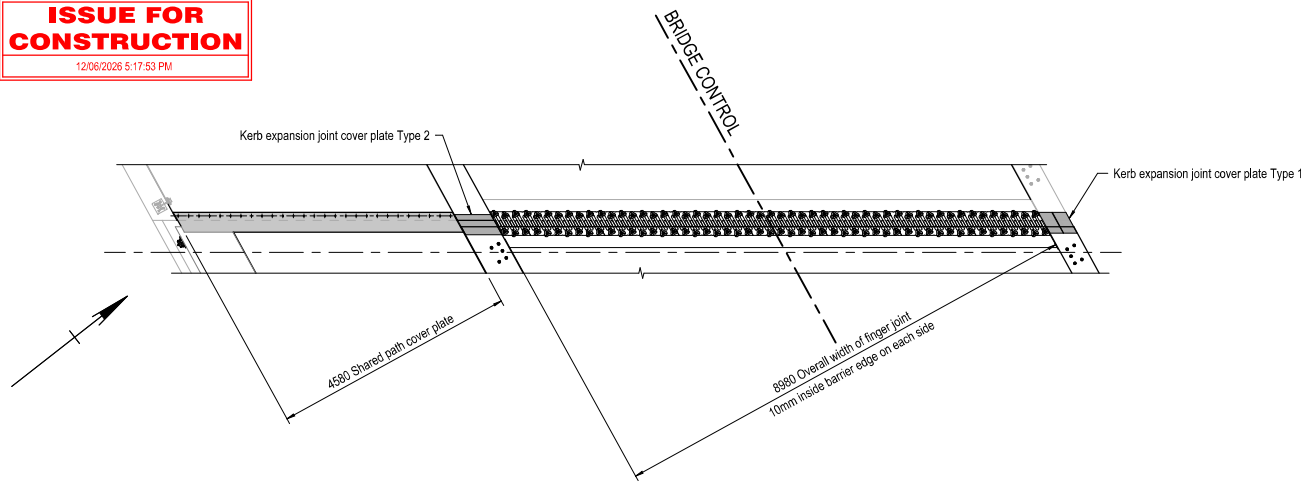
- For General Notes, refer to Series No. NL-01 and NL-02.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



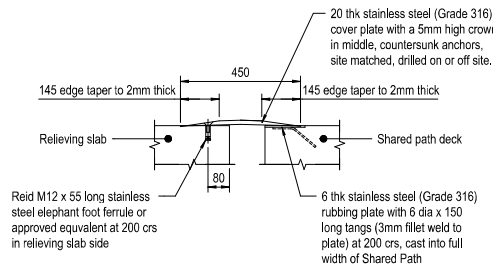
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		Issued for Construction										Checked:	Verified:	Project:	BR01 - CABOOLTURE RIVER BRIDGE	
												L. O'Driscoll	T. Ford			
												Approved:	K. Chang	Drawing Title:		
														DECK CONCRETE DETAILS	Project No.	01099
												ON BEHALF OF RED FOX ENGINEERING		SHEET 5	Drawing No.	01099-RFA-BR01-DRG-09004
												RECEO, 35109	Date:	29/08/2025	Series Number	DK-05 of 11
															REV	



FINGER JOINT AND COVER PLATE - PLAN

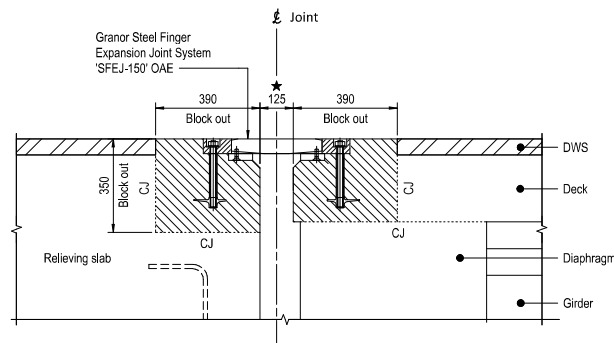
Scale A

Abutment B shown, Abutment A similar



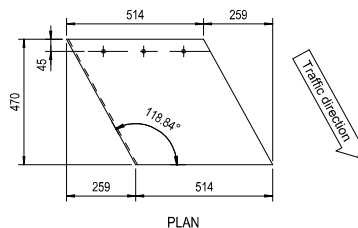
TYPICAL SHARED PATH COVER PLATE SECTION

Scale B



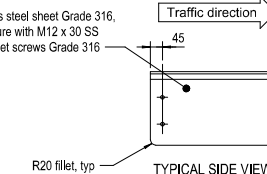
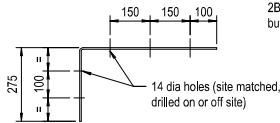
TYPICAL FINGER JOINT SECTION

Scale B



SECTION

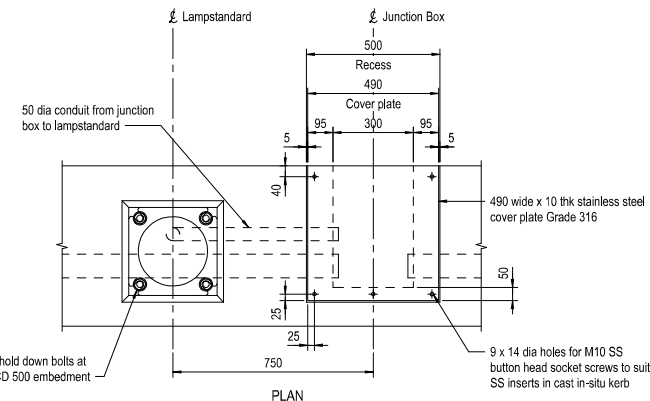
TYPE 1



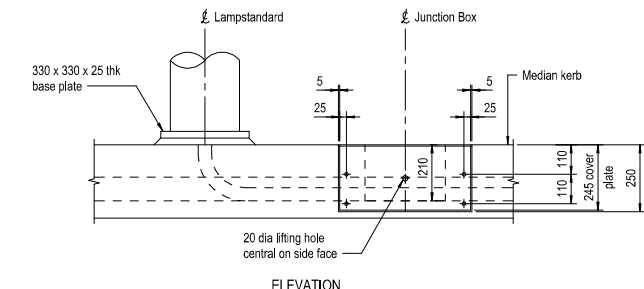
TYPICAL SIDE VIEW

EXPANSION JOINT COVER PLATE DETAILS

Scale B



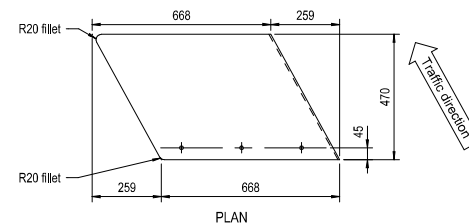
PLAN



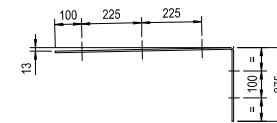
ELEVATION

TYPICAL JUNCTION BOX DETAILS

Scale B



PLAN



SECTION

TYPE 2

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026



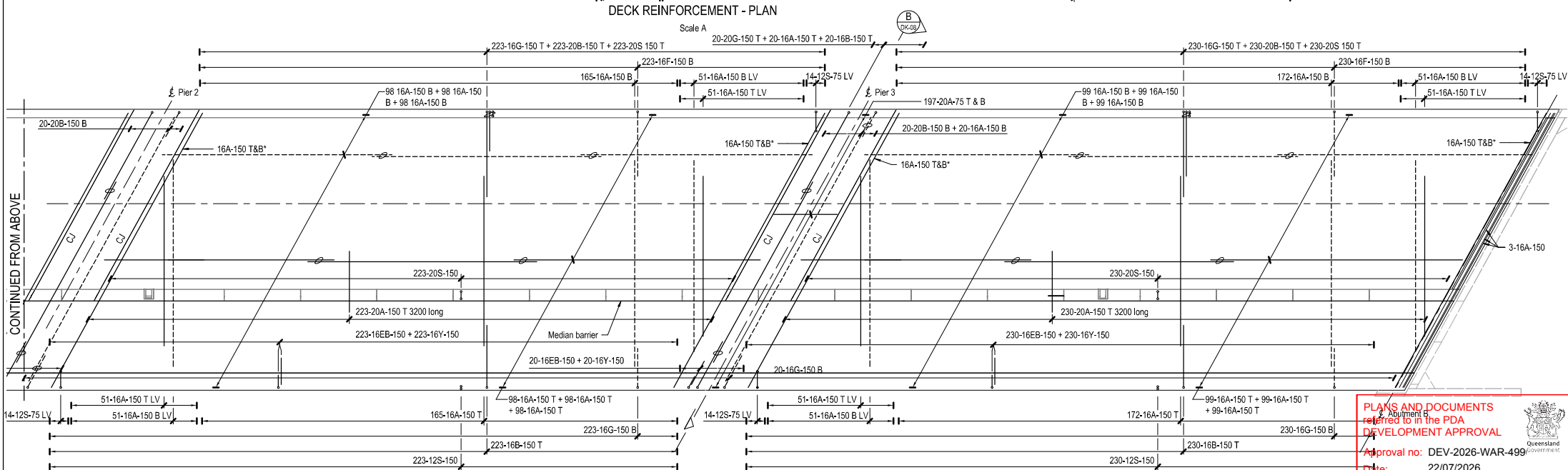
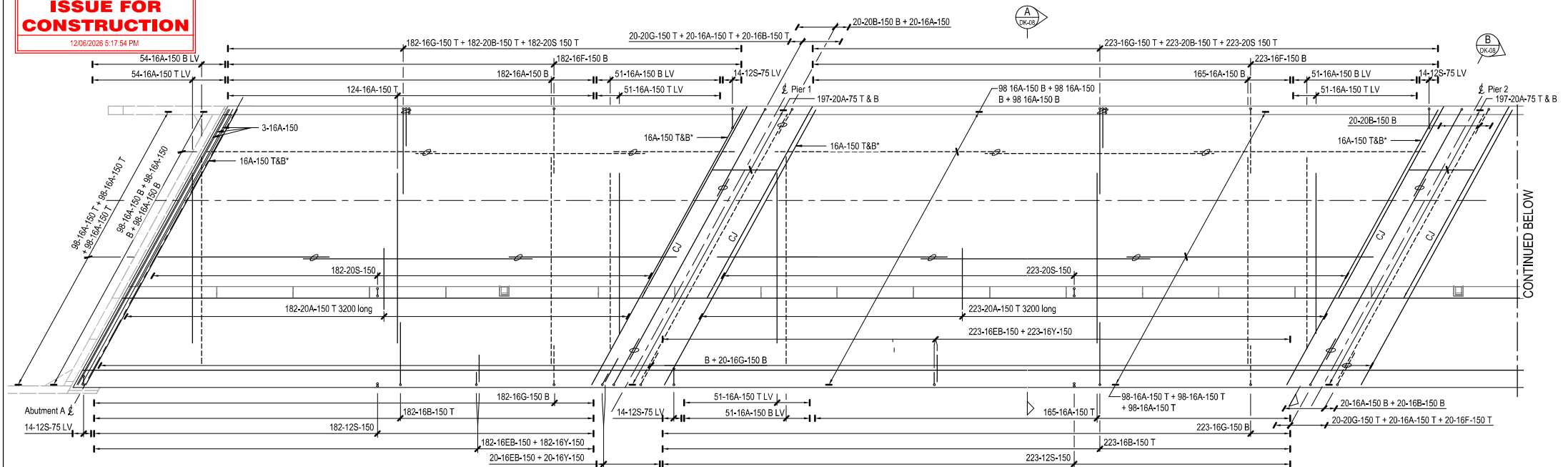
NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	Rev.	B
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020	A 0 1 2 m	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	DECK CONCRETE DETAILS SHEET 6	01099	01099-RFA-BR01-DRG-09005	DK-06 of 11		
B	Re-issued for Construction			27/02/2026		Horiz. Datum: MGA Zone 56 (Local Grid)	B 0 100 200 300 400 mm	L. O'Driscoll	T. Ford								
						Height Datum: AHD Derived		K. Cheng									
						Survey Books	Original Drawing Size: A1	ON BEHALF OF RED FOX ADVISORY									
							Dimensions shown in millimetres except where shown otherwise	RPEQ: 35109	Date: 28/08/2025								

ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS
related to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

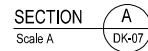
Date: 22/07/2026

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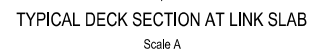
- For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	B
A	Issued for Construction			1/09/2025	Stockland	Datum GDA2020	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	DECK REINFORCEMENT DETAILS SHEET 1	01099	01099-RFA-BR01-DRG-09010	DK-07 of 11		
B	Re-issued for Construction			27/02/2026		Horiz. Datum MGA Zone 56 (Local Grid)	Checked: L. O'Driscoll	Verified: T. Ford								
						Height Datum AHD Derived	Approved: K. Cheng									
						Survey Books	ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	Date: 28/08/2025								

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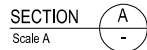
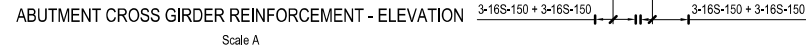
SECTION B
Scale A DK-07



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

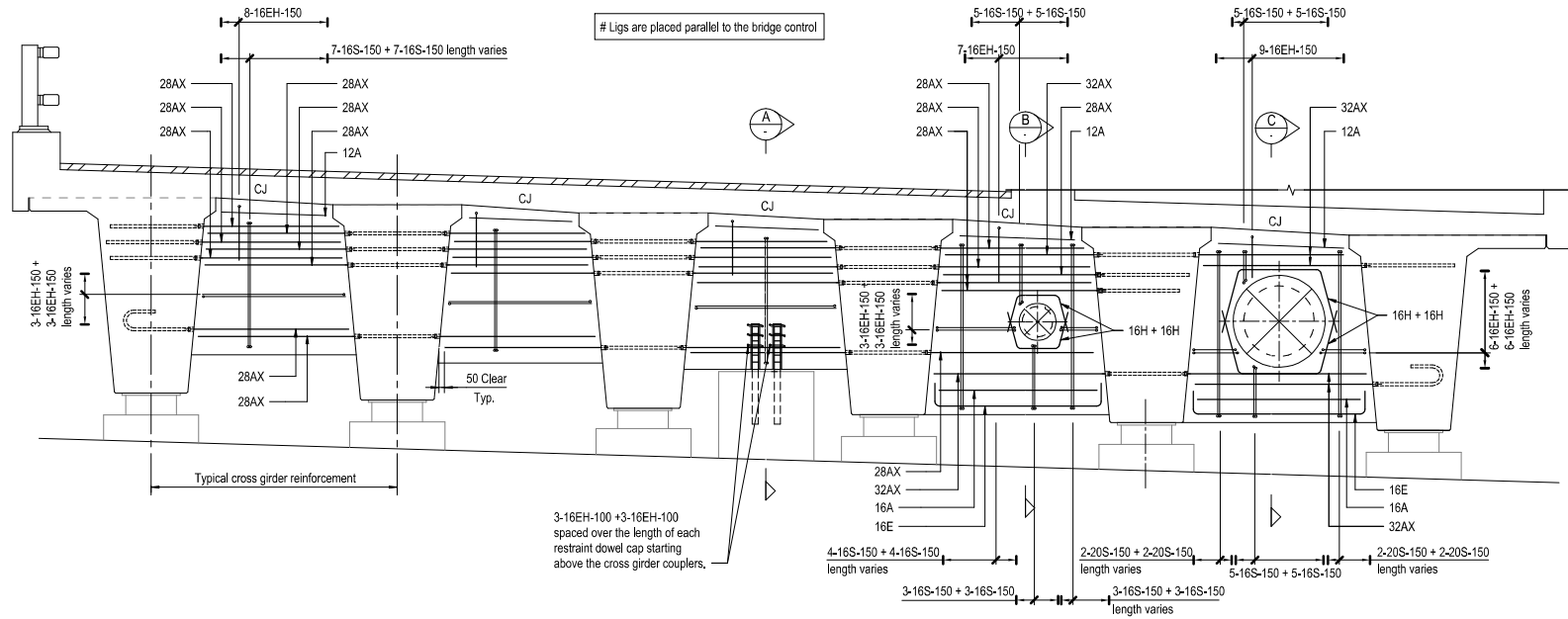
Rev.	Revisions/Descriptions	Ref.	Certification	Date	 Stockland	Survey Data		A 	Drawn:	Design:	Local Authority:	CITY OF MORETON BAY			
A	Issued for Construction			1/09/2025		Datum	GDA2020		Checked:	B. Humphries				Verified:	K. Chang
B	Re-Issued for Construction			27/02/2026		Horiz. Datum	MGA Zone 56 (Local Grid)		Approved:	L. O'Driscoll	T. Ford	Drawing Title:		DECK REINFORCEMENT DETAILS SHEET 2	
						Height Datum	AHD Derived			K. Chang					
						Survey Books			Original Drawing Size : A1		ON BEHALF OF RED FOX ADVISORY			Project No.	01099
									Dimensions shown in millimetres except where shown otherwise		RPEQC 35109 Date: 29/08/2025				
												Series Number	DK-08 of 11	REV	



Queensland
Government

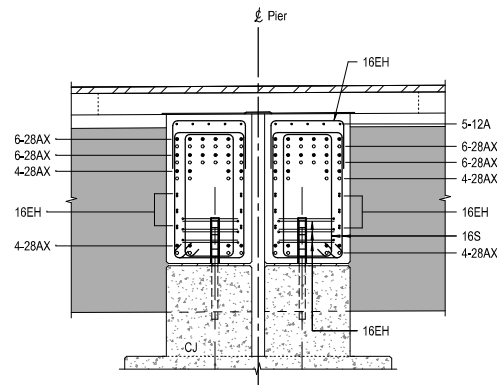
1. For General Notes, refer to Series No. NL-01 and NL-02.

Revisions/Descriptions					Ref.	Certification	Date	Client:  Stockland	Survey Data		Drawn: B. Humphries Design: K. Chang Local Authority: CITY OF MORETON BAY Checked: L. O'Driscoll Verified: T. Ford Approved: K. Chang Drawing Title: DECK REINFORCEMENT DETAILS SHEET 3	Scale 05001000mm	Project: BR01 - CABOOLTURE RIVER BRIDGE Project No. 01099 Drawing No. 01099-RFA-BR01-DRG-09012 Series Number DK-09 of 11 REV A		
A	Issued for Construction			1/09/2025	Date	GDA2020	Checked: L. O'Driscoll		Verified: T. Ford						
					Horiz. Datum	MGA Zone 56 (Local Grid)									
					Height Datum	AHD Derived	Approved: K. Chang		Drawing Title: DECK REINFORCEMENT DETAILS SHEET 3						
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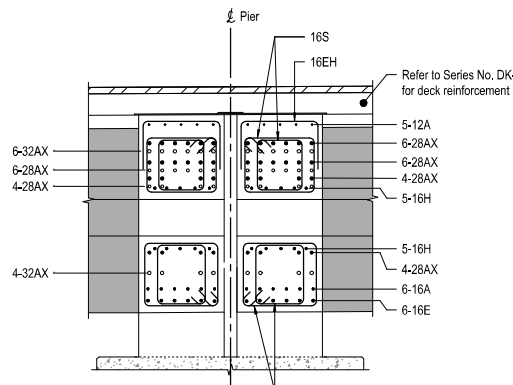
PIER CROSS GIRDER REINFORCEMENT - PLAN

Scale A

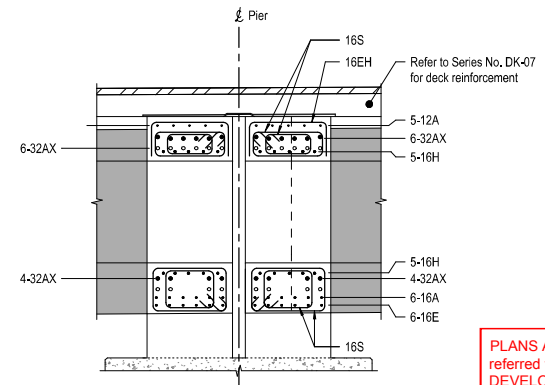


SECTION A
Scale A

Reinforcement shown in typical UNO.
Restraint dowel and associated reinforcement at section location only



SECTION B
Scale A



SECTION C
Scale A

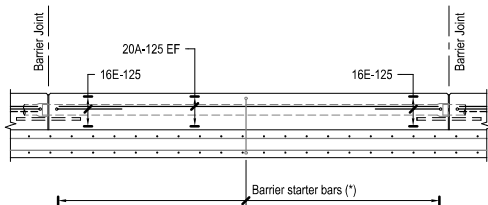
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

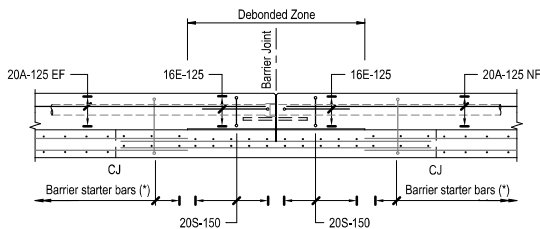
- For General Notes, refer to Series No. NL-01 and NL-02.
- Maintain 30 minimum cover to restraint block dowel caps.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	B. Humphries	K. Cheng	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	DECK REINFORCEMENT DETAILS SHEET 4	01099	01099-RFA-BR01-DRG-09013	DK-10 of 11		
						Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise	Checked: L. O'Driscoll Approved: K. Cheng	Verified: T. Ford	Drawing Title: DECK REINFORCEMENT DETAILS SHEET 4							
							ON BEHALF OF RED FOX ADVISORY RPEQ: 35109	Date: 28/08/2025								



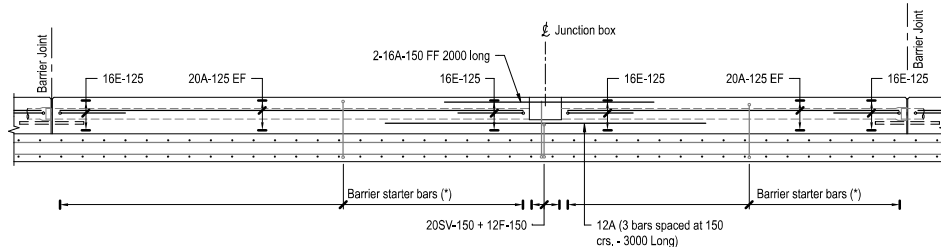
TYPICAL KERB - ELEVATION

(*) For barrier starter bars, refer Series No. DK-08



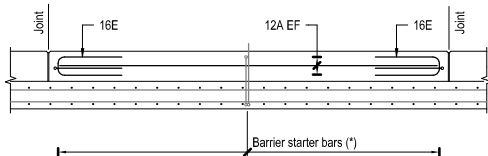
TYPICAL KERB AT LINK SLAB - ELEVATION

(*) For barrier starter bars, refer Series No. DK-07



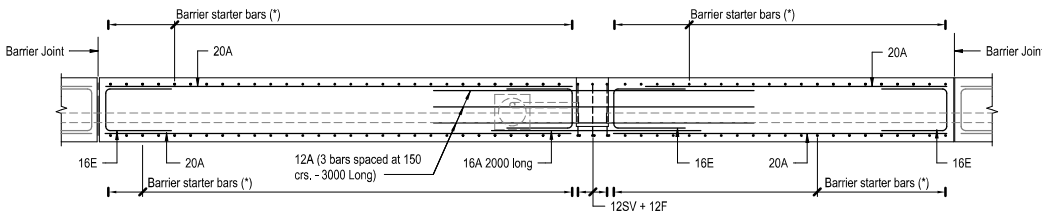
TYPICAL MEDIAN KERB AT JUNCTION BOX - ELEVATION

(*) For barrier starter bars, refer Series No. DK-07



TYPICAL SHARED PATH UPSTAND - ELEVATION

(*) For barrier starter bars, refer Series No. DK-07



PLAN

(*) For barrier starter bars, refer Series No. DK-07

TYPICAL BARRIER DETAILS

Scale A

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025

Client:



Stockland

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales 0 500 1000mm	
A	
Original Drawing Size - A1 Dimensions shown in millimetres except where shown otherwise	

Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025	

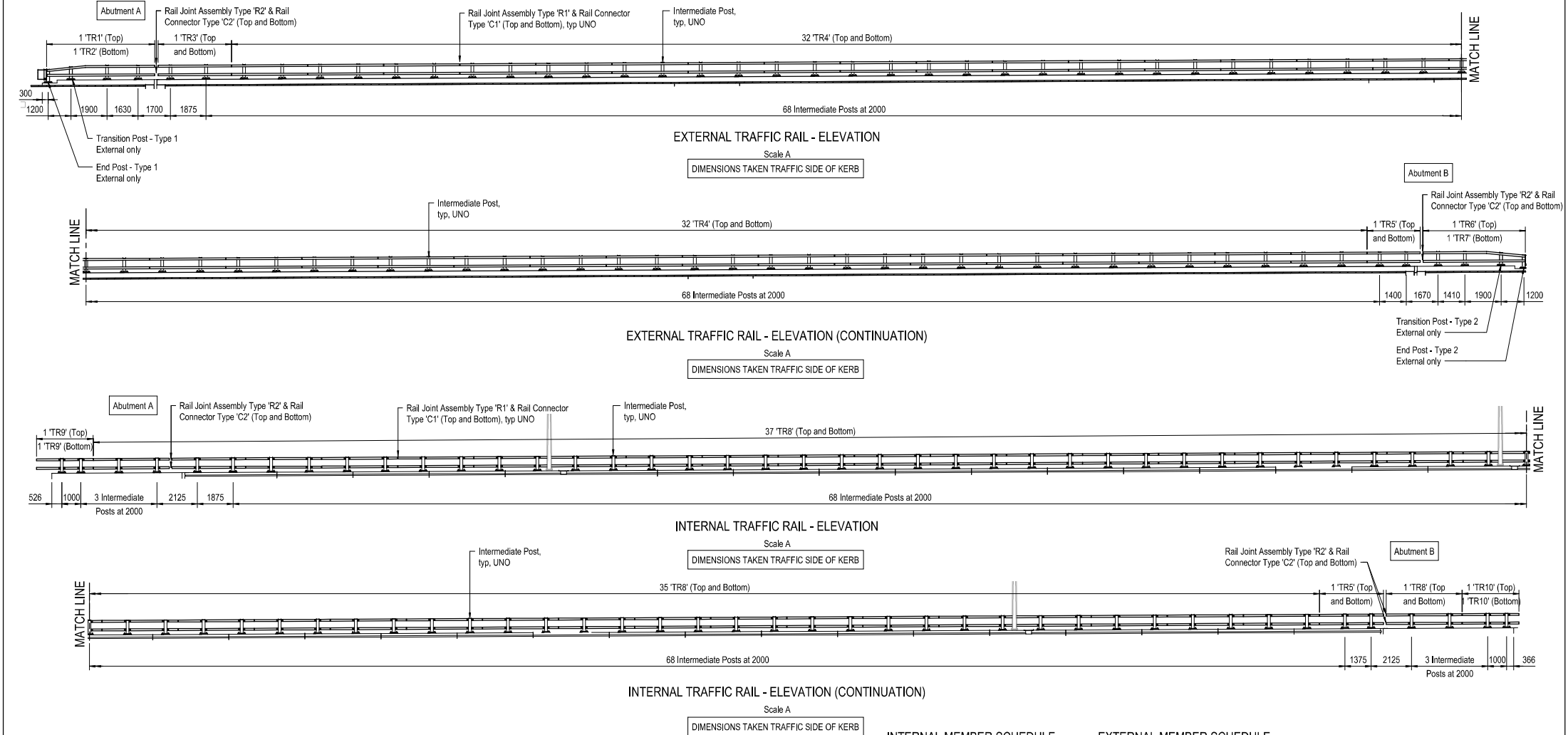
Local Authority: CITY OF MORETON BAY	Project: BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title: DECK REINFORCEMENT DETAILS SHEET 5	



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-09014
Series Number	DK-11 of 11
REV	A

ISSUE FOR CONSTRUCTION

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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



INTERNAL MEMBER SCHEDULE

ELEMENT	QTY
End Post - Type 1	-
End Post - Type 2	-
Transition Post - Type 1	-
Transition Post - Type 2	-
Intermediate Post	78
Rail Connector - Type C1	66
Rail Connector - Type C2	4

EXTERNAL MEMBER SCHEDULE

ELEMENT	QTY
End Post - Type 1	1
End Post - Type 2	1
Transition Post - Type 1	1
Transition Post - Type 2	1
Intermediate Post	74
Rail Connector - Type C1	66
Rail Connector - Type C2	4

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- For Bridge traffic barrier standard details, Refer MRSD 2200.
- This drawing is to be read in conjunction with MRSD 2200.
- Rail Join Assembly Type 'R2' and Rail Connector Type 'C2' have been modified from standard to suit bridge specific movements. Refer to detail on drawing set for the modified details.
- These bridge traffic barrier drawings must not be used as fabrication drawings. Bridge traffic barrier and associated components must be shop detailed and submitted to the Administrator for approval before fabrication.
- Thrie beam connection details based on MRSD 2200. Detail to be modified to suit selected proprietary thrie beam height.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025
B	RF144 Traffic Rail Amendments			20/02/2026
C	RF1-73 Traffic rail post spacing amended			17/03/2026
D	Internal traffic rail post spacing amended at Abutment B			16/03/2026



Stockland

Client:

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

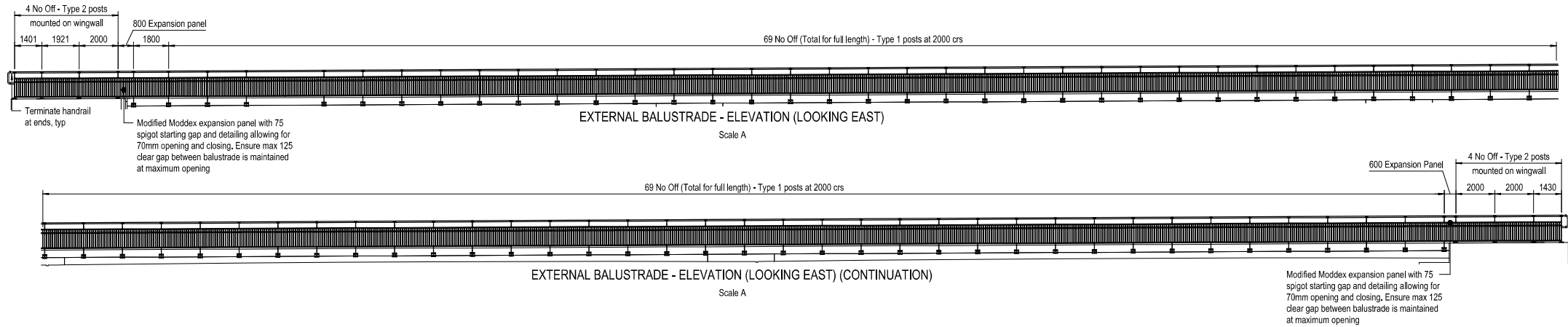
Scales	
A	0 1 2 3 4 m
Original Drawing Size : A1	
Dimensions shown in millimetres except where shown otherwise	

Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025	

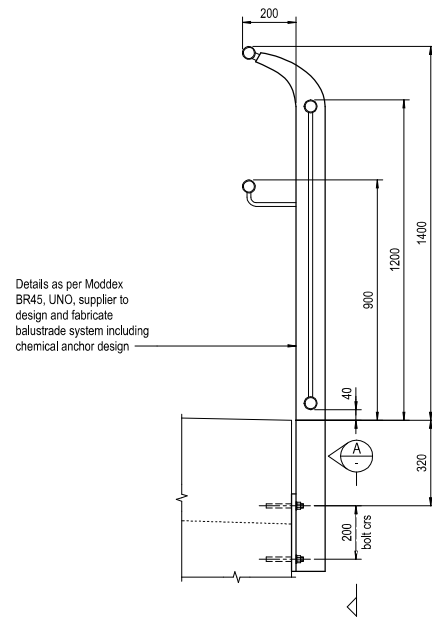
Local Authority:	CITY OF MORETON BAY
	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	TRAFFIC RAIL DETAILS SHEET 1



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-10000
Series Number	TR-01 of 2
REV	D



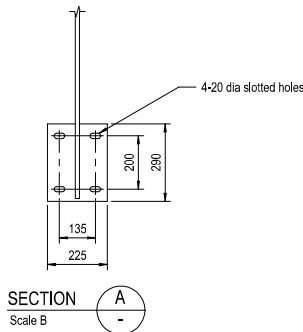
HOLD



EXTERNAL BALUSTRADE - TYPE 1

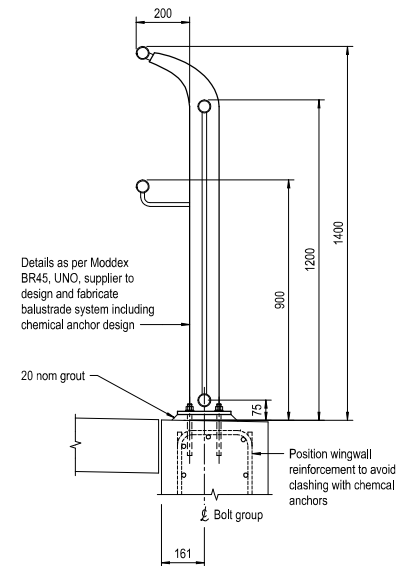
Scale B

All cast-in ferrules to have additional reinforcement bar placed horizontally 450 long centred in ferrule group to manufacturer's specification



SECTION A
Scale B -

HOLD



EXTERNAL BALUSTRADE - TYPE 2

Scale B

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

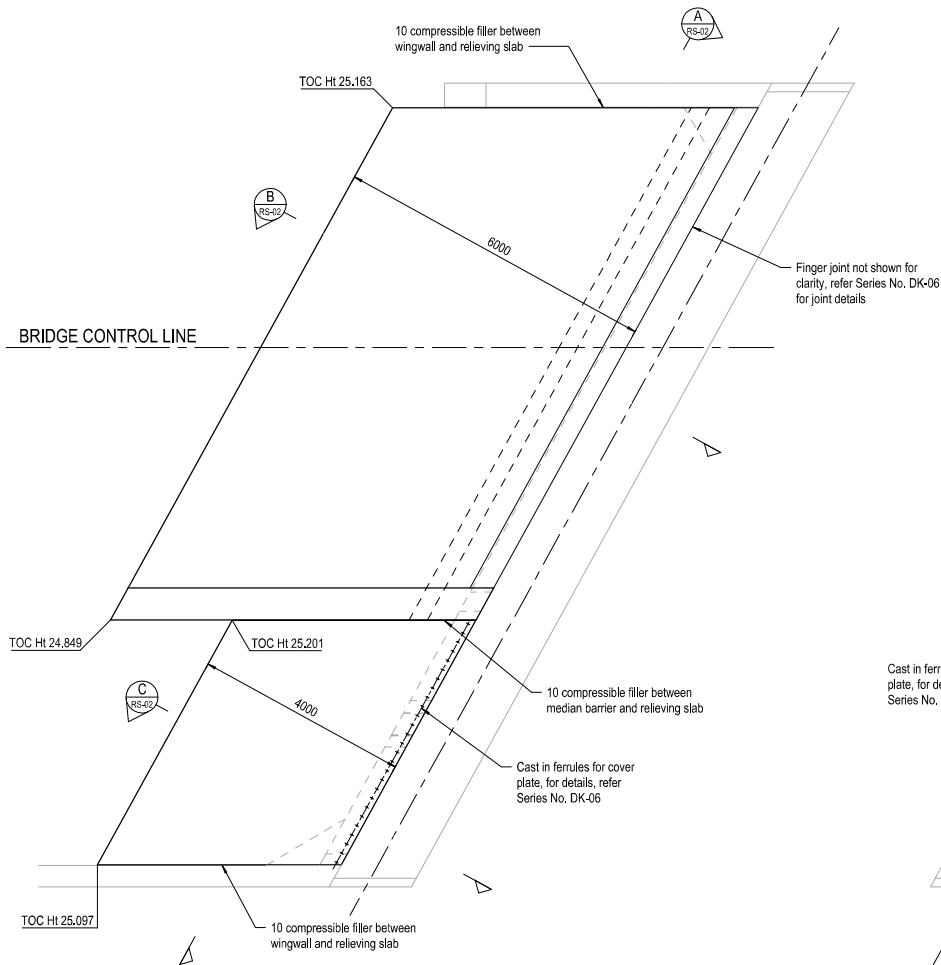
Date: 22/07/2026


Queensland
Government

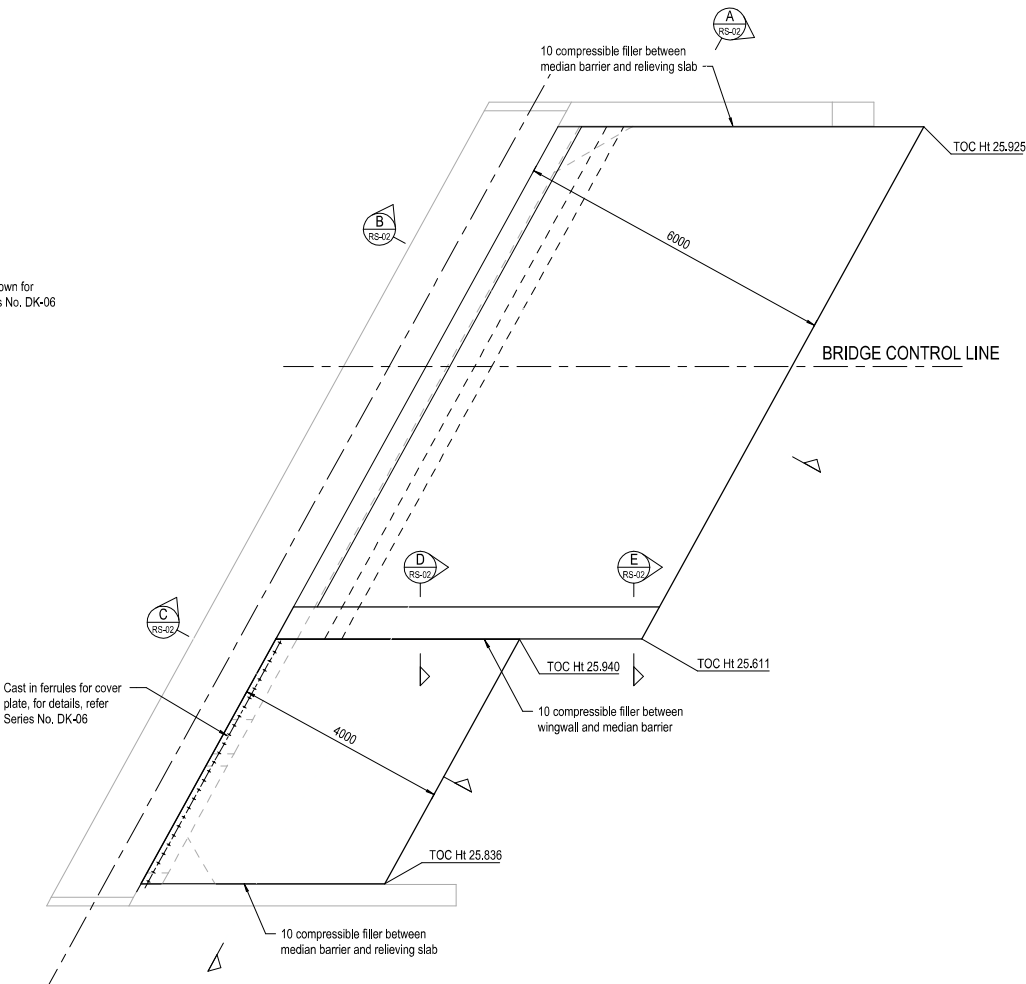
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Revisions/Descriptions					Ref.	Certification	Date	 Stockland	Survey Data		Drawn: B. Humphries Design: K. Cheng Local Authority: CITY OF MORETON BAY	 redfox			
A	Issued for Construction					1/09/2025	Date: GDA2020						Checked: L. O'Driscoll	Verified: T. Ford	Project: BR01 - CABOOLTURE RIVER BRIDGE
B	Balustrade stanchion position amended					10/12/2025	Horiz. Datum: MGA Zone 56 (Local Grid)						Approved: K. Cheng 		Drawing Title: BALUSTRADE DETAILS - EXTERNAL
C	Re-issued for Construction					27/02/2026	Height Datum: AHD Derived						ON BEHALF OF RED FOX ADVISORY RFEQ: 35109 Date: 10/12/2025		
							Survey Books		Original Drawing Size : A1 Dimensions shown in millimetres except where shown otherwise						



ABUTMENT A - PLAN
Scale A



ABUTMENT B - PLAN
Scale A

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-499
Date: 22/07/2026

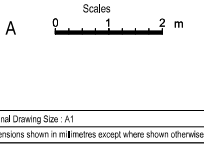


NOTES
1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			1/09/2025



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

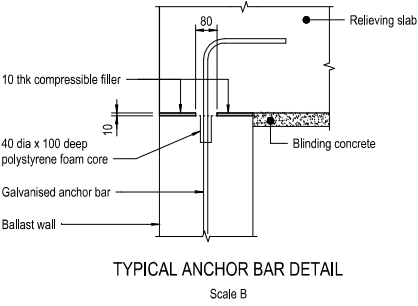
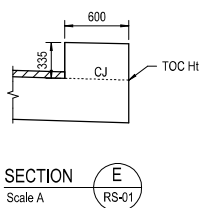
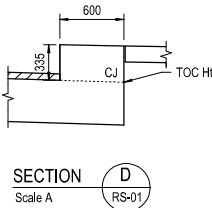
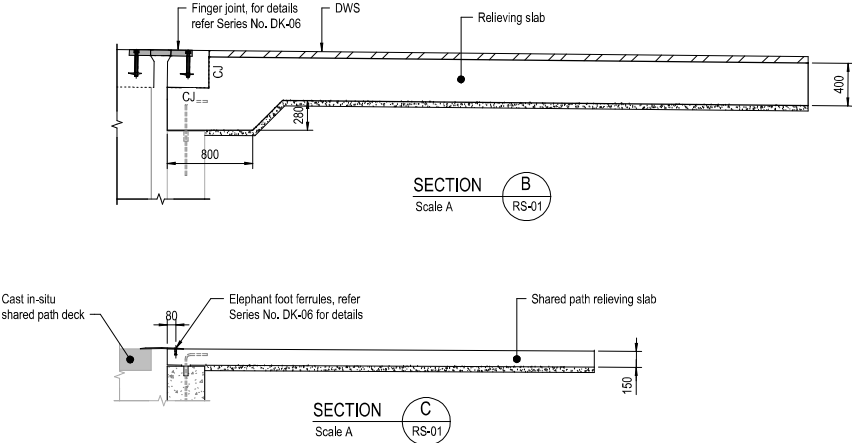
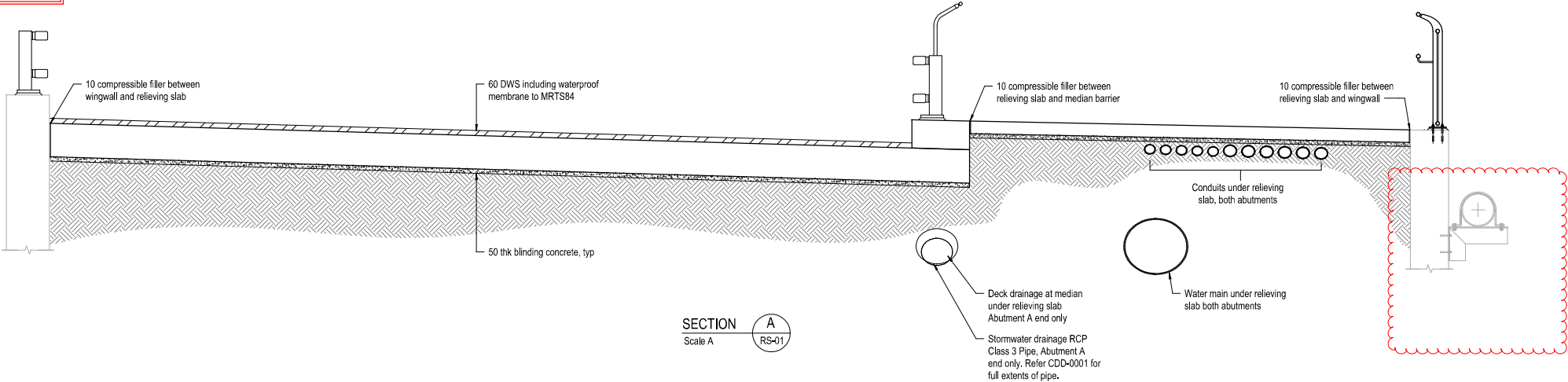


Drawn: B. Humphries	Design: K. Cheng
Checked: L. O'Driscoll	Verified: T. Ford
Approved: K. Cheng	
ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 28/08/2025	

Local Authority:	CITY OF MORETON BAY
Project:	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	RELIEVING SLAB CONCRETE DETAILS SHEET 1



Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-12000
Series Number	RS-01 of 3
REV	A



PLANS AND DOCUMENTS referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499
Date: 22/07/2026



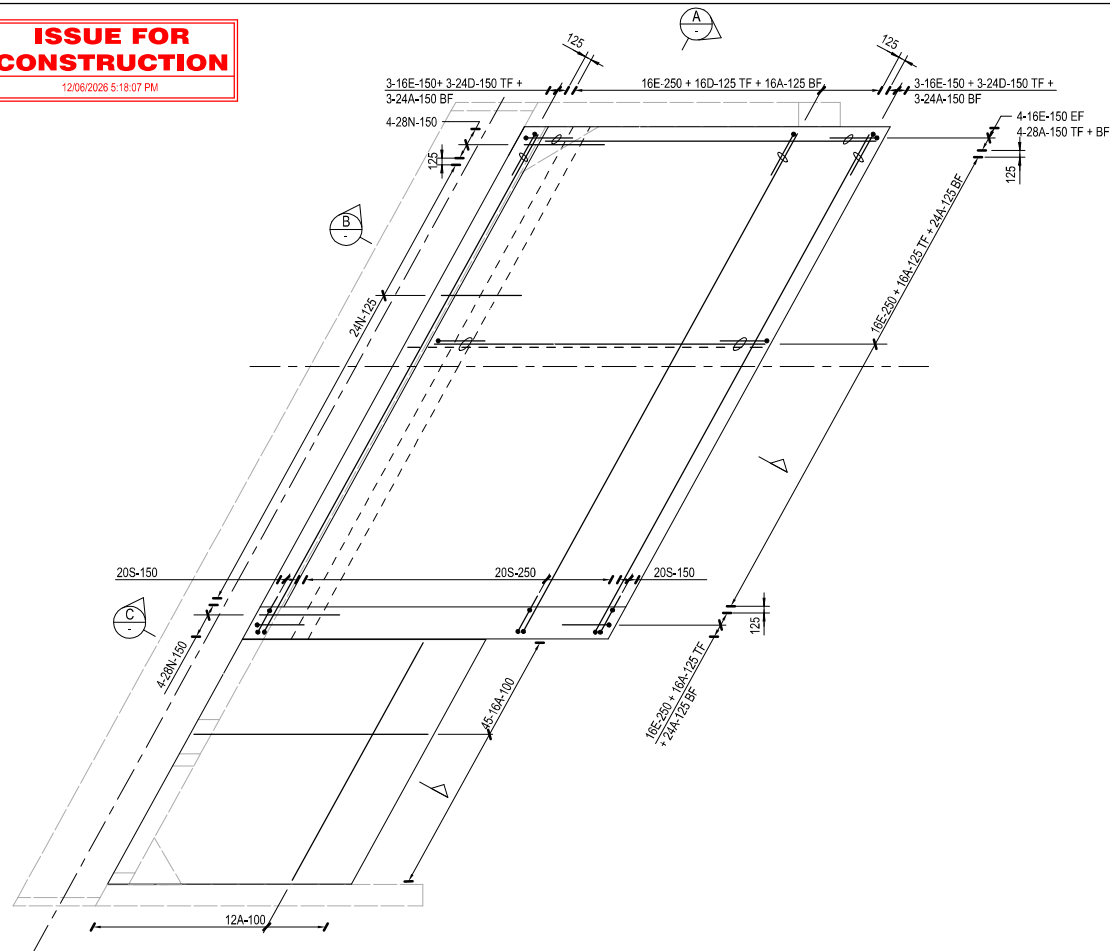
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:  Stockland	Survey Data		A B 05001000mm 0100200300400mm	Drawn:	Design:	Local Authority:	 redfox			
A	Issued for Construction			1/09/2025		Datum	GDA2020		Checked:	L. O'Driscoll	Verified:		T. Ford	Project:	CITY OF MORETON BAY
B	Amended to show Vent Pipe			02/04/2026		Horiz. Datum	MGA Zone 56 (Local Grid)		Approved:	K. Cheng	Drawing Title:		BR01 - CABOOLTURE RIVER BRIDGE		
						Height Datum	AHD Derived		ON BEHALF OF RED FOX ADVISORY		RELIEVING SLAB CONCRETE DETAILS		Project No.	01099	
						Survey Books			RPEQ: 35109		SHEET 2		Drawing No.	01099-RFA-BR01-DRG-12001	
									Dimensions shown in millimetres except where shown otherwise		Date: 28/08/2025		Series Number	RS-02 of 3	
											REV				

ISSUE FOR CONSTRUCTION

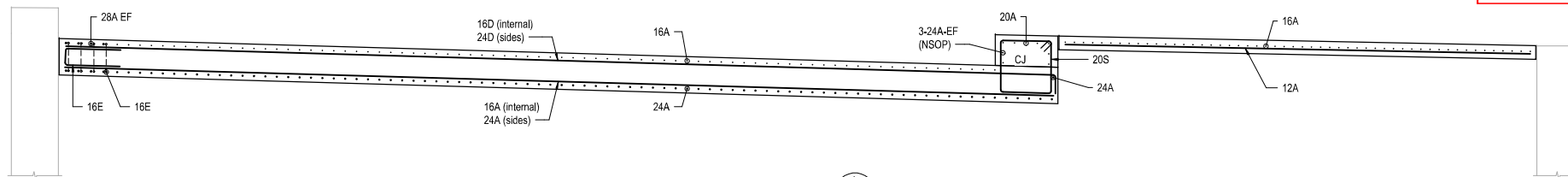
12/06/2026 5:18:07 PM



ABUTMENT B - PLAN

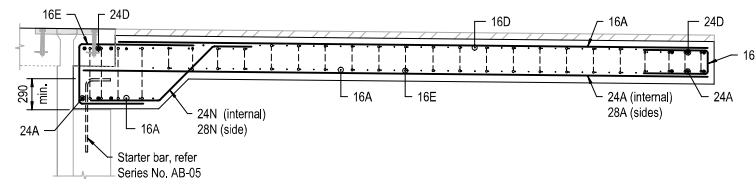
Scale A

(Abutment A similar but opposite handed)



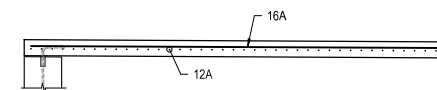
SECTION A

Scale B



SECTION B

Scale B



SECTION C

Scale B

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

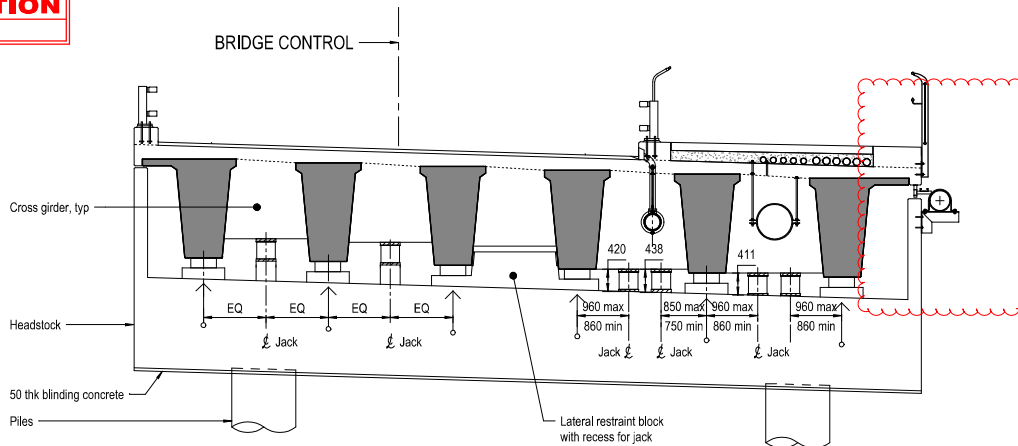
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NOTES

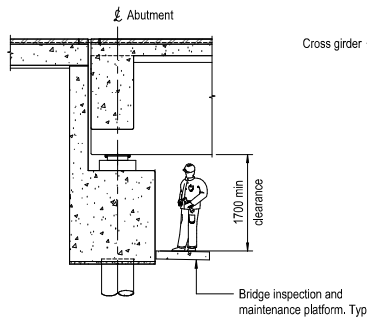
1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scales	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books:	A 0 1 2 m B 0 500 1000mm	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEC: 35109 Date: 28/08/2025	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY	BR01 - CABOOLTURE RIVER BRIDGE	RELIEVING SLAB REINFORCEMENT DETAILS	01099	01099-RFA-BR01-DRG-12010	RS-03 of 3	REV	A

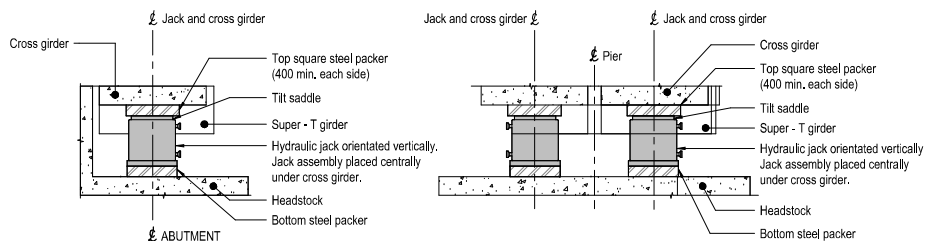


Abutment shown (Pier Similar)
BEARING REPLACEMENT - ELEVATION
Scale A

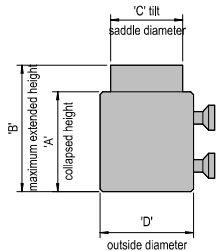
Jacking arrangement as per the drawing above, minimum of two jacks are required where there is a penetration in the cross girders



ABUTMENT - INSPECTION ELEVATION
SCALE A



HYDRAULIC JACK ARRANGEMENT
NTS



MANUFACTURER	MODEL No.	JACK SAFE WORKING LOAD (kN)	JACK WORKING LOAD (kN)	Stroke (mm)	JACK DIMENSIONS			
					'A' (mm)	'B' (mm)	'C' (mm)	'D' (mm)
ENERPAC	HCR-4002 double acting, high tonnage hydraulic cylinder	4000	2000	50	321	371	159	350

Alternative jacks may be substituted if approved by TMR (Engineering and Technology-Structures). Alternative jacks proposed by the Contractor shall be designed and certified by a suitably qualified RPEQ, which include consideration for the capacity and geometric constraints of the headstock and cross section.
Dimensions 'A' and 'B' include allowance for tilt saddle.
Jack Safe Working Load shall be at least twice the Jack Working Load.

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- Top Steel Packer to be square with a minimum dimension of 400mm for each side placed in positions as noted on bearing replacement - elevation.

DESIGN ASSUMPTIONS

- Jacking distance shall be maximum of 10 mm.
- Maximum differential displacement between jacks shall be kept to a maximum of 0.5 mm.
- Electronic displacement transducers and mechanical dial gauges for the measurement of superstructure movement shall be installed by the Contractor. The gauges shall be accurate to ± 0.01 mm.
- All girders shall be lifted simultaneously at each Abutment/ Pier.
- Temporary work platforms shall support a 5 kPa live load.
- Traffic restricted to emergency vehicles only.

SITE PREPARATION AND ACCESS

- The Contractor engaged to undertake the bearing replacement shall provide temporary work platforms, clear access paths to the abutments and fixed scaffolding access to work platforms.
- Drawings of the temporary work platforms and access method shall be submitted to the asset owner for approval prior to installation.

BEARING REPLACEMENT PROCEDURE

The following process for bearing replacement is proposed by the original bridge designer (including assumptions). The Contractor shall submit a written method statement for bearing replacement to the asset owner for approval prior to proceeding with the works. The written method statement shall include details of all temporary works requirements including lateral restraint during jacking.

JACKING

- Install temporary traffic management devices as required.
- Install temporary work platforms.
- Loosen any deck furniture in advance of jacking (eg. cover plates, balustrades).
- Check with services providers about services crossing the bridge and the effect of jacking on them (eg. water main, bridge lighting, fibre optic cables, ITS, etc.).
- Clean bearing shelves to ensure they are free of vegetation, debris and unnecessary grease.
- Girders shall be restrained longitudinally by installation of packers at end of girder.

TRIAL LIFT

A trial lift is required prior to bearing replacement as this allows for the identification of potential problems and may lead to a redesign, changes to the work procedure or equipment. The height of the trial lift shall be determined by the TMR or MBRC (bridge design) engineer in charge. Trial lifts shall be conducted at each pier or abutment before their respective bearing replacement lift.

- The bridge carriageway where jacking occurs shall be closed to traffic during hydraulic jacking.
- Install hydraulic jacking equipment under the cross girders in accordance with manufacturer's hydraulic jacking system instructions and written specification. Use steel shims and non-compressible packers as required. Tilt saddles shall be used on all lifting jacks.
- Jack and lift bridge as required. Check compliance with expected jacking loads. Ensure maximum bearing pressure on concrete does not exceed 20 MPa.
- Dimensions of the existing bearings shall be confirmed on site.
- Lower bridge back to original position.
- Remove temporary packers.

BEARING REPLACEMENT LIFT

- Repeat steps 5 to 7.
- Install non-compressible temporary packers at specified locations to support the girders in case of jack decompression. Packers to be of sufficient strength and rigidity to support the weight of the girder and deck.
- Carefully remove old bearing ensuring the concrete surfaces do not get damaged. A patch repair may be required if the surface is damaged.
- Install new bearings as per design and instructions by the asset owner.
- Immediately prior to lowering the girders apply an approved epoxy putty to the top surface of the bearings. The epoxy shall have a fully cured compressive strength of no less than 60 MPa. The thickness of the epoxy is determined by the hog of the girders and any grade on the bridge. The thickness shall not exceed 5 mm.
- If the epoxy sets before completion of this operation, the girders shall be lifted off and all contact surfaces cleaned before repeating the process.
- Lower the bridge carefully until the point the epoxy putty is displaced at all girders. Remove displaced excess epoxy and clean the surfaces immediately.
- Lock off the jacks hydraulically to prevent loss of support.
- After the epoxy has fully cured over a period of not less than 48 hours, the temporary packers may be removed, and the residual jack load transferred to the bearings.
- Remove hydraulic jacks and supporting components.
- Reinstate girder vertical restraint.
- Tighten bridge furniture and services as required.

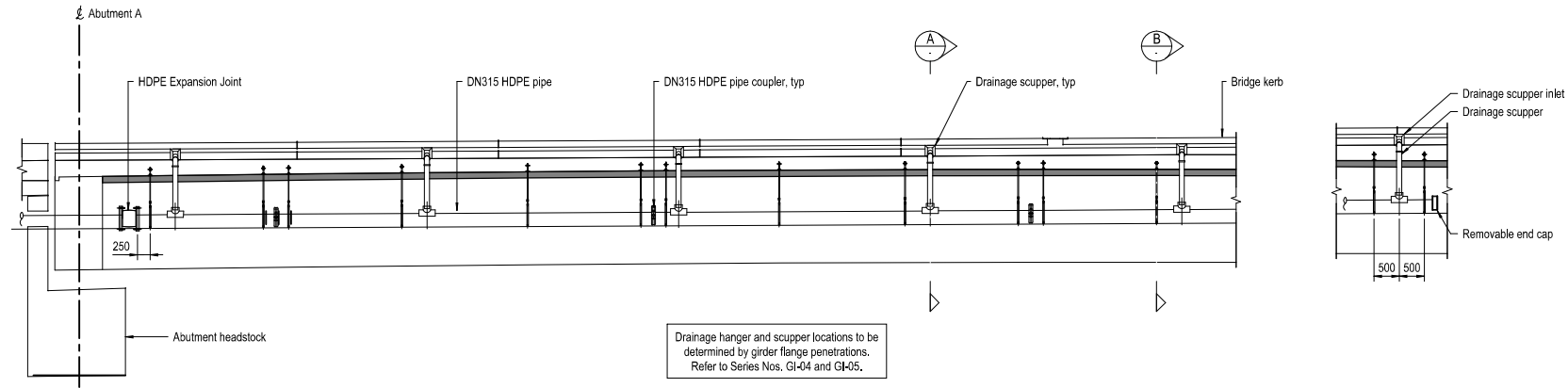
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026

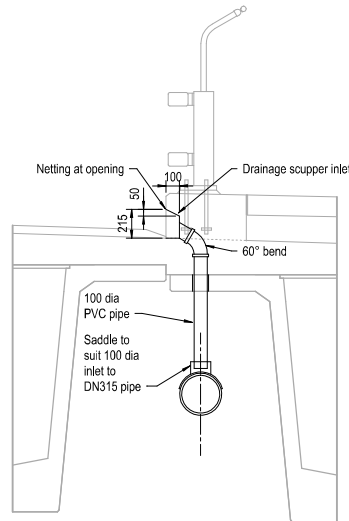


Rev.	Revisions/Descriptions	Ref.	Certification	Date	Client:	Survey Data	Scale	Drawn:	Design:	Local Authority:	Project:	Drawing Title:	Project No.	Drawing No.	Series Number	REV	A
A	Issued for Construction			1/09/2025	Stockland	Datum: GDA2020 Horiz. Datum: MGA Zone 56 (Local Grid) Height Datum: AHD Derived Survey Books: Original Drawing Size: A1 Dimensions shown in millimetres except where shown otherwise	A 0 1 2 m	Drawn: B. Humphries Checked: L. O'Driscoll Approved: K. Cheng ON BEHALF OF RED FOX ADVISORY RPEQ. 35109 Date: 28/08/2025	Design: K. Cheng Verified: T. Ford	CITY OF MORETON BAY BR01 - CABOOLTURE RIVER BRIDGE	INSPECTION AND MAINTAINANCE DETAILS	01099	01099-RFA-BR01-DRG-13000	MD-01 of 1			

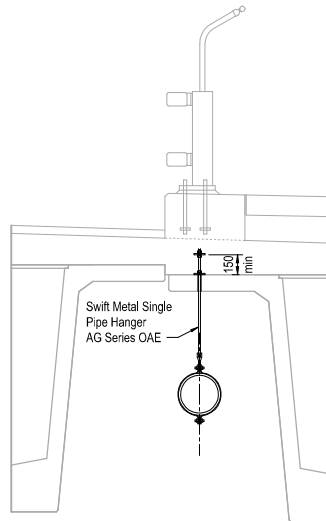


ELEVATION - DRAINAGE SYSTEM

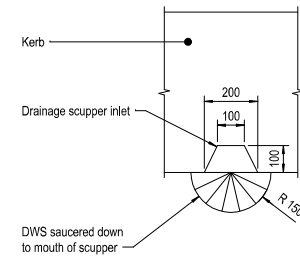
Scale A



SECTION A
Scale B



SECTION B
Scale B



PLAN - SCUPPER INLET

Scale C

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026

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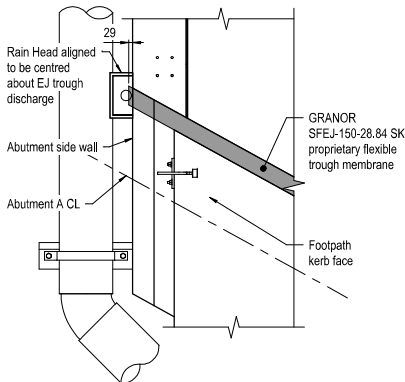
NOTES

1. For General Notes, refer to Series No. NL-01 and NL-02.

Rev.		Revisions/Descriptions		Ref.	Certification	Date	Client:  Stockland	Survey Data		A 012m B 0200400600800mm C 0100200300400mm	Drawn: B. Humphries	Design: K. Chang	Local Authority: CITY OF MORETON BAY		 redfox
A	Issued for Construction				1/09/2025	Datum GDA2020		Checked: L. O'Driscoll	Verified: T. Ford		Project: BR01 - CABOOLTURE RIVER BRIDGE		Drawing Title: BRIDGE DRAINAGE DETAILS	Project No. 01099	
						Horiz. Datum MGA Zone 56 (Local Grid)								Drawing No. 01099-RFA-BR01-DRG-14000	
						Height Datum AHD Derived								Series Number BD-01 of 3	
						Survey Books		Original Drawing Size : A1 Dimensions shown in millimetres except where shown otherwise			ON BEHALF OF RED FOX ADVISORY RPEQ: 35109 Date: 29/08/2025			REV A	

ISSUE FOR CONSTRUCTION

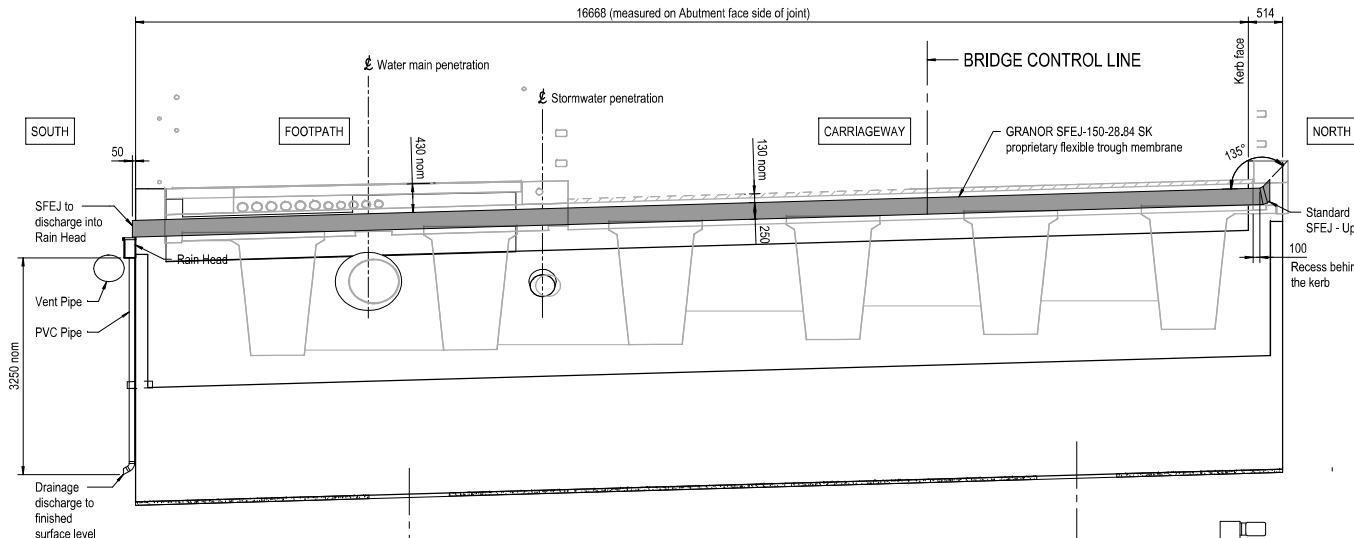
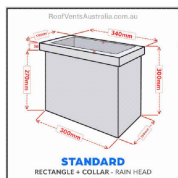
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Note: Rain Head Fabricator to provide support bracket for approval to the Bridge design engineer. The bracket needs to be supported on one side of the expansion joint. Alternatively, it can be supported on both sides of an expansion joint with a slotted hole allowing movement of +/- 75mm. Rain head to be hot dip galvanised as per AS4680 to HDG800

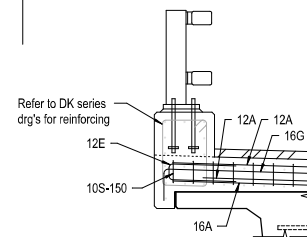
PART PLAN - ABUTMENT SOUTH SIDE

Scale A



EJ DRAINAGE TROUGH - ELEVATION AT ABUTMENT A (ABUTMENT B - SIMILAR)

Scale A



EJ - TYP. REINFORCEMENT AT DECK EDGE

Scale A

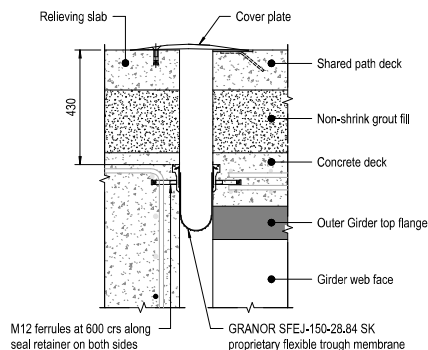
PART PLAN - ABUTMENT NORTH SIDE

Scale A

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

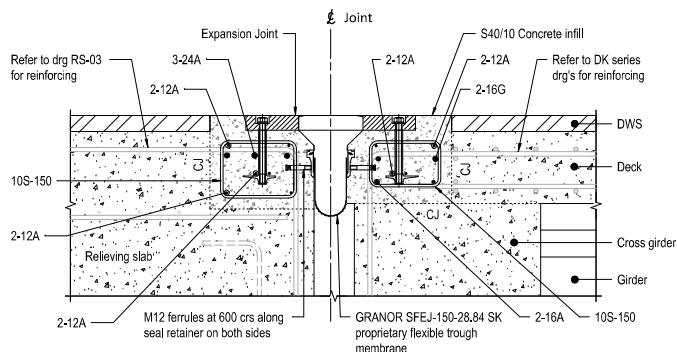
Approval no: DEV-2026-WAR-499

Date: 22/07/2026



EJ DRAINAGE TROUGH - AT FOOTPATH

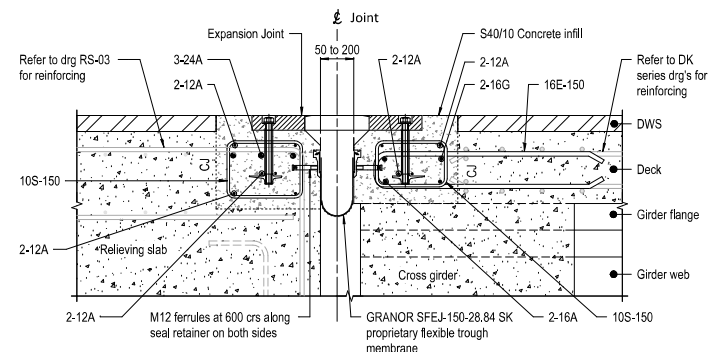
Scale B



EJ DRAINAGE TROUGH - AT CARRIAGEWAY - AT CROSS GIRDER

Scale B

Note: Reinforcement in the transverse direction of the bridge are to have staggered laps. Lap lengths as per TMR SD1044



EJ DRAINAGE TROUGH - AT CARRIAGEWAY - AT SUPER-T

Scale B

Note: Reinforcement in the transverse direction of the bridge are to have staggered laps. Lap lengths as per TMR SD1044

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- S40/10 Concrete infill to be used at expansion joint breakout.

Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			10/12/2025
B	Amended to show Vent Pipe			02/04/2026



Stockland

Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 400 800 1200 1600mm
B	0 100 200 300 400mm

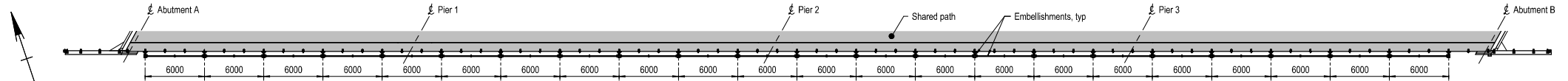
Drawn:	G. Dejar	Design:	K. Cheng
Checked:	S. Forrest	Verified:	T. Ford
Approved:	K. Cheng		
ON BEHALF OF RED FOX ADVISORY			
RPEC: 35109		Date: 10/12/2025	

Local Authority:	CITY OF MORETON BAY
	BR01 - CABOOLTURE RIVER BRIDGE
Drawing Title:	EJ DRAINAGE TROUGH DETAILS

redfox	
Project No.	01099
Drawing No.	01099-RFA-BR01-DRG-14001
Series Number	BD-02 of 3
REV	B

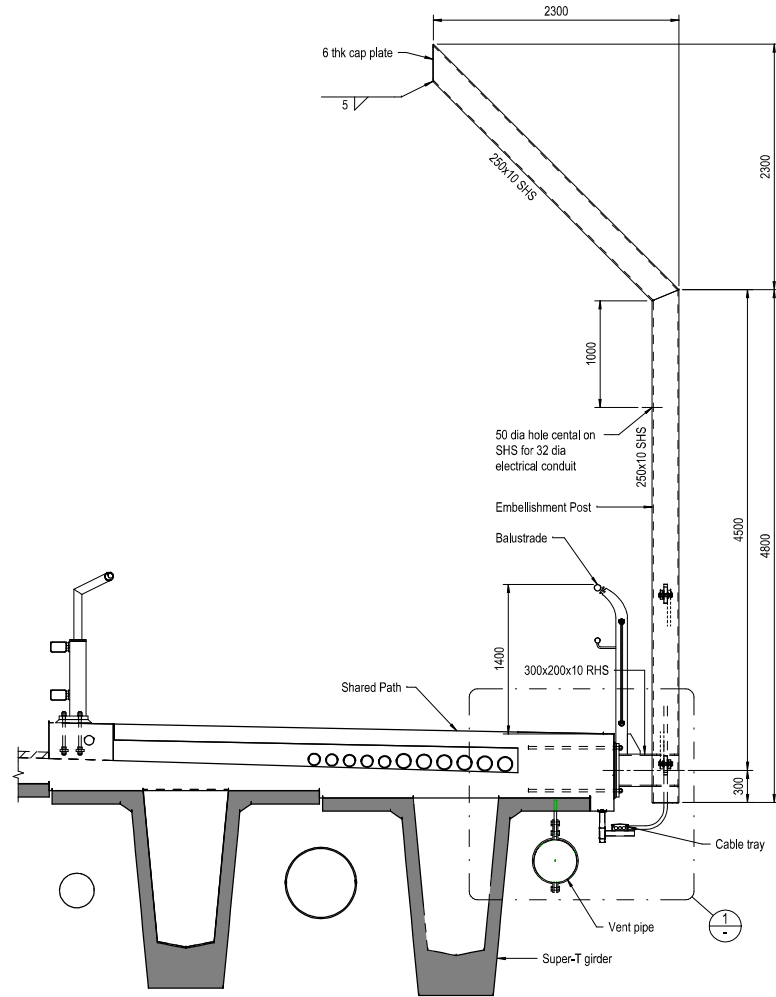
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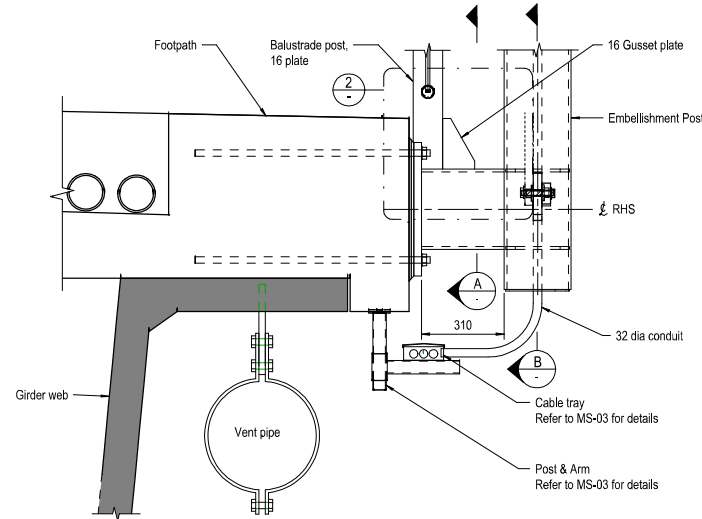
EMBELISHMENTS - PLAN

Scale A



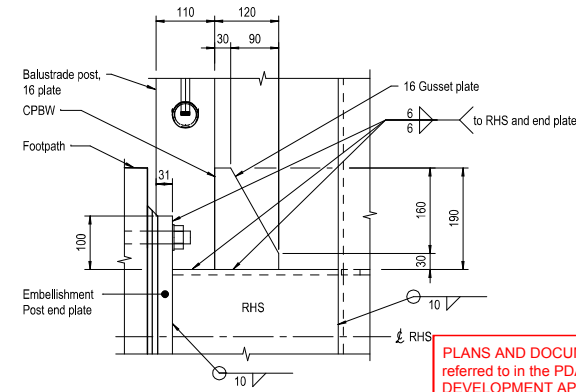
TYPICAL SECTION - AT EMBELLISHMENT/CABLE TRAY

Scale B



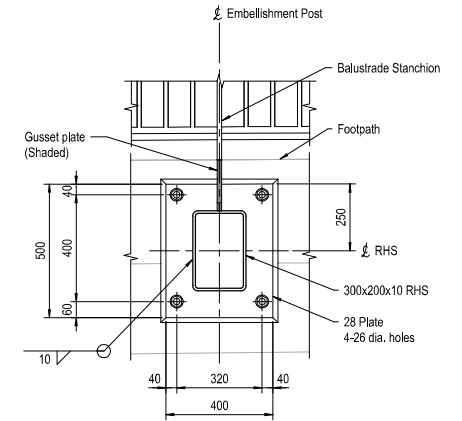
DETAIL 1

Scale C



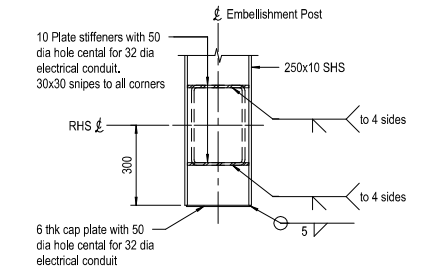
DETAIL 2

Scale B



SECTION A

Scale C



SECTION B

Scale C

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- Embellishment posts and embellishment post end plates and associated bolts are to be hot dip galvanised and powdered coated with Dulux Duratec Elements - Black (night sky) Flat 9E19190F.
- All cross bracing, gusset plates, flat plates to be painted with N14 White in accordance with MRTS88 and AS2312.
- All embellishment posts are to be Grade 450 Steel, All flat plates, cleats plates and embellishment post end plates are to be Grade 350 Steel.
- All bolts are considered high strength assemblies, refer to Bolt Notes in NL-02. Spacers are to be made from Grade316 stainless steel.
- Actual dimension of bracing may vary. Site measurements are to be conducted between the embellishment posts prior to the cutting of the plates 'A' and 'B'.
- An additional luminaire of maximum 30 kg is expected to be retrofitted onto the embellishment post. The designer shall be consulted prior to retrofitting to confirm structural adequacy.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-WAR-499

Date: 22/07/2026



Rev.	Revisions/Descriptions	Ref.	Certification	Date
A	Issued for Construction			12/06/2026



Survey Data	
Datum	GDA2020
Horiz. Datum	MGA Zone 56 (Local Grid)
Height Datum	AHD Derived
Survey Books	

Scales	
A	0 2 4 6 8 m
B	0 500 1000mm
C	0 100 200 300 400mm
Original Drawing Size: A1	
Dimensions shown in millimetres except where shown otherwise	

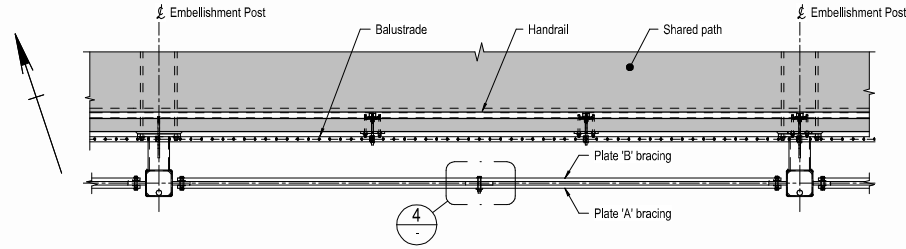
Drawn:	G. Dejar	Design:	K. Cheng
Checked:	L. O'Driscoll	Verified:	L. Fields
Approved:	K. Cheng	ON BEHALF OF RED FOX ADVISORY	
RPEQ: 35109		Date: 12/06/2026	

Local Authority:		CITY OF MORETON BAY	
Project:		BR01 - CABOOLTURE RIVER BRIDGE	
Drawing Title:		BRIDGE EMBELISHMENTS	
SHEET 1 of 3			

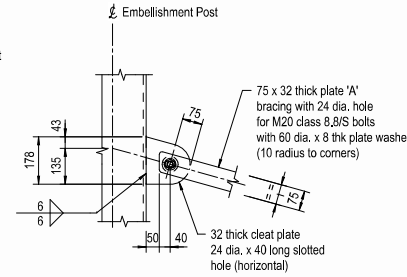
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Drawing No.		01099-RFA-BR01-DRG-15000	
Series Number		MS-01	REV A

ISSUE FOR CONSTRUCTION

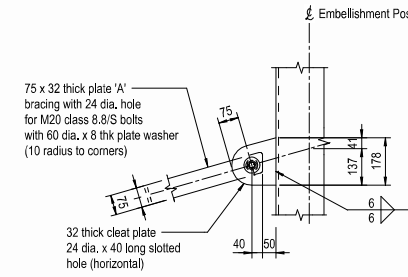
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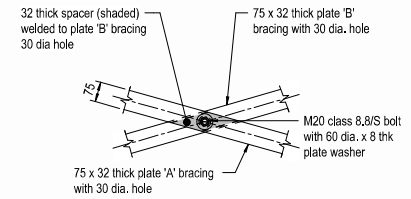
EMBELLISHMENT - PART PLAN
Scale A



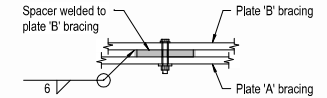
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DETAIL 1
Scale C



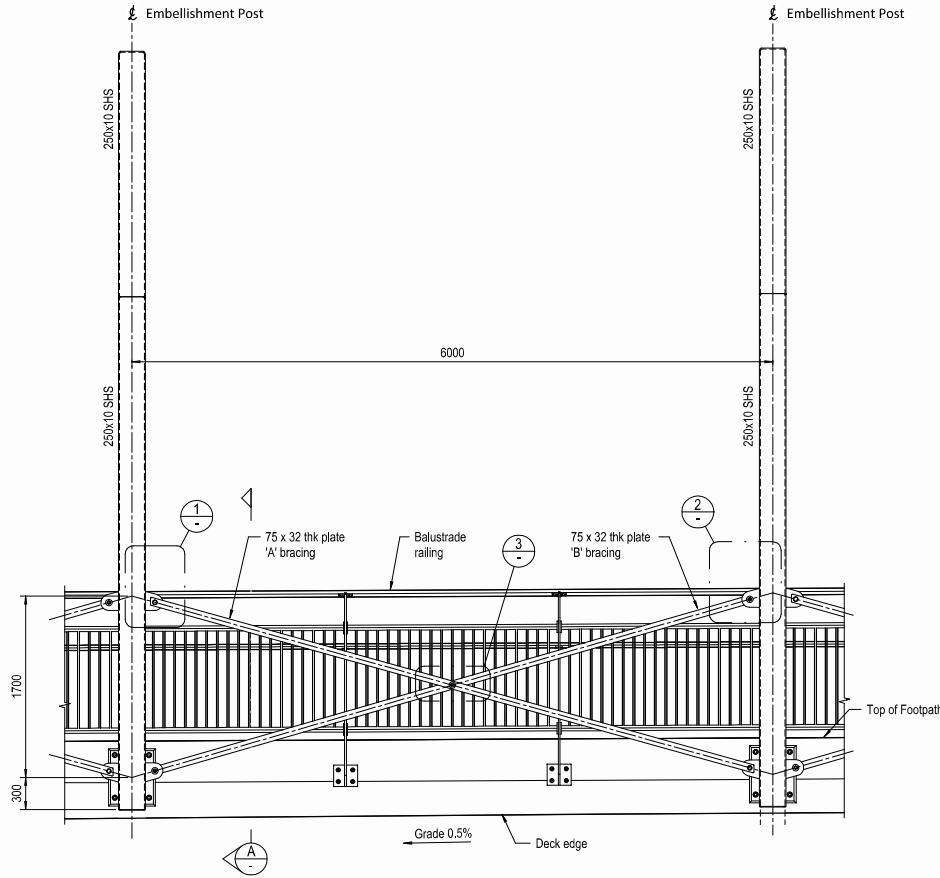
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DETAIL 2
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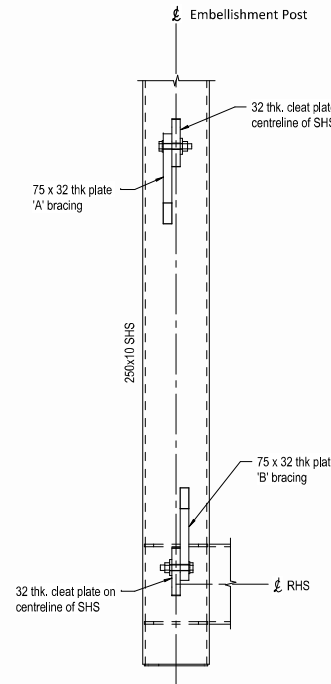
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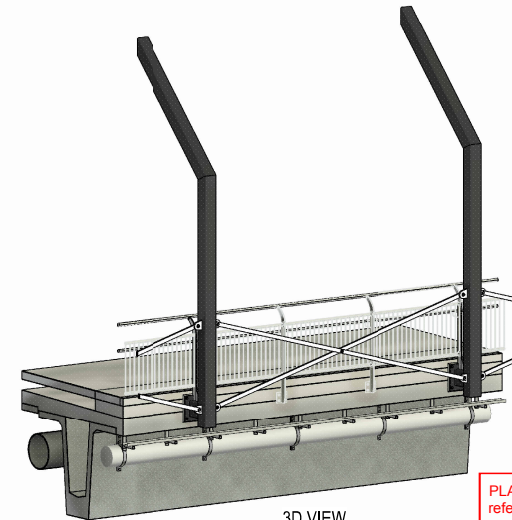
DETAIL 4
Scale B



EMBELLISHMENT - PART ELEVATION
Scale A



SECTION A
Scale C



3D VIEW
Scale NTS

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2026-WAR-4997
Date: 22/07/2026

NOTES

- For General Notes, refer to Series No. NL-01 and NL-02.
- Embellishment posts and embellishment post end plates and associated bolts are to be hot dip galvanised and powdered coated with Dulux Duratec Elements - Black (night sky) Flat 9E19190F.
- All cross bracing, gusset plates, flat plates to be painted with N14 White in accordance with MRTS88 and AS2312.
- All embellishment posts are to be Grade 450 Steel. All flat plates, cleats plates and embellishment post end plates are to be Grade 350 Steel.
- All bolts are considered high strength assemblies, refer to Bolt Notes in NL-02.
- Spacers are to be made from Grade316 stainless steel.
- Actual dimension of bracing may vary. Site measurements are to be conducted between the embellishment posts prior to the cutting of the plates 'A' and 'B'.
- An additional luminaire of maximum 30 kg is expected to be retrofitted onto the Embellishment post. The designer shall be consulted prior to retrofitting to confirm structural adequacy.



Queensland
GOVERNMENT

redfox

Project No. 01099

Drawing No. 01099-RFA-BR01-DRG-15001

Series Number MS-02

REV A

BR01 - CABOOLTURE RIVER BRIDGE

BRIDGE EMBELLISHMENTS

SHEET 2 of 3

Original Drawing Size: A1

Dimensions shown in millimetres except where shown otherwise

ON BEHALF OF RED FOX ADVISORY

RPEQ. 35109 Date: 12/06/2026

Drawn: G. Dejar

Design: K. Cheng

Local Authority: CITY OF MORETON BAY

Checked: L. O'Driscoll

Verified: L. Fields

Approved: K. Cheng

Drawing Title: BRIDGE EMBELLISHMENTS

SHEET 2 of 3

Client: Stockland

Survey Data

Datum: GDA2020

Horiz. Datum: MGA Zone 56 (Local Grid)

Height Datum: AHD Derived

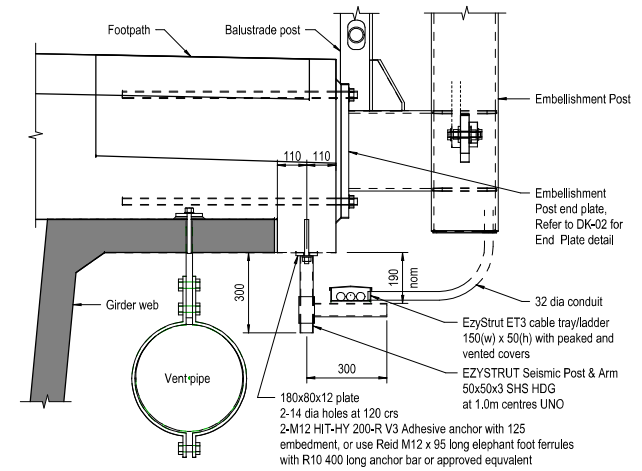
Survey Books

Scale A

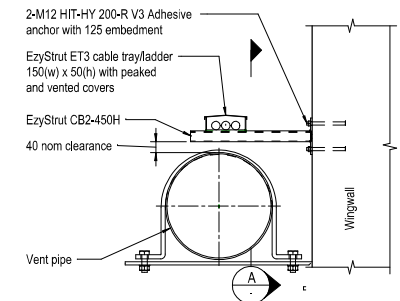
Scale B

Scale C

Scale NTS



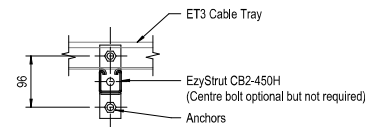
Scale B



Scale B

Scale A

Scale A



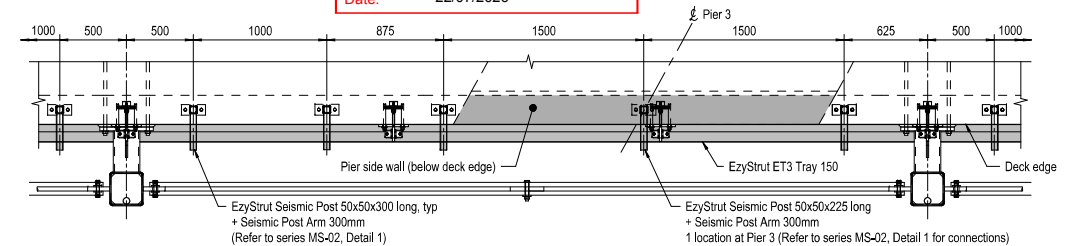
Scale C



Queensland
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* Reinforcement to be scanned prior to drilling. Hole location may be adjusted up to 50 to achieve 40 minimum cover to reinforcement

Scale A



Scale A

Scale A

1. For General Notes, refer to Series No. NL-01 and NL-02.
2. The total allowable cable weights on the cable tray is 35 kg/m

Rev.		Revisions/Descriptions		Ref.	Certification	Date	Client:  Stockland	Survey Data		Scales 0 200 400 600 800 mm		Drawn: G. Dellar	Design: K. Chang	Local Authority: CITY OF MORETON BAY	 redfox
A	Issued for Construction					12/05/2028		Datum GDA2020	A	0 200 400 600 800 mm	Checked: L. O'Driscoll	Verified: T. Ford	Project: BR01 - CABOOLTURE RIVER BRIDGE		
								Horiz. Datum MGA Zone 56 (Local Grid)	B	0 100 200 300 400 mm					
								Height Datum AHD Derived	C	0 50 100 150 200 mm	Approved: K. Chang		Drawing Title: BRIDGE EMBELISHMENTS SHEET 3 of 3		
											ON BEHALF OF RED FOX LABORATORY RPEQ, 35109 Date: 12/05/2028				
								Original Drawing Set - A1 Originals at http://www.stockland.co.nz and http://www.redfoxlab.com.au						Project No. 01099	
														Drawing No. 01099-RFA-BR01-LDRG-15002	
														Series Number MS-03	REV. 1