

16 October 2025

Enquiries: Rebecca Taranto
Our Ref: OP 2020_3516/2 (Doc ID:1326785)
Your Ref: WO3046-NOAH CREEK BRIDGE

Administration Office
64 - 66 Front St Mossman
P 07 4099 9444
F 07 4098 2902

Douglas Shire Council
PO Box 723
MOSSMAN QLD 4873

Dear Sir/Madam

**Development Application for Minor Change to Development Approval for Operational
Works (Bridge Replacement)
At Cape Tribulation Road COW BAY
On Land Described as LOT: 20 NPW: 695**

Please find attached the Decision Notice for the above-mentioned development application.

Please quote Council's application number: OP 2020_3516/2 in all subsequent correspondence relating to this development application.

Should you require any clarification regarding this, please contact Rebecca Taranto on telephone 07 4099 9444.

Yours faithfully



Leonard Vogel
Manager Environment & Planning

cc. State Assessment and Referral Agency (SARA) E: CairnsSARA@dilgp.qld.gov.au
encl.

- Decision Notice
 - o Approved Drawing(s) and/or Document(s)
 - o Concurrence Agency Response
 - o Reasons for Decision - response to properly made submissions.
- Advice For Making Representations and Appeals (Decision Notice)



Decision Notice

Approval (with conditions)

Given under s 83 of the Planning Act 2016

Applicant Details

Name: Douglas Shire Council
Postal Address: PO Box 723
MOSSMAN QLD 4873

Property Details

Street Address: Cape Tribulation Road
Real Property Description: LOT: 20 NPW: 695
Local Government Area: Douglas Shire Council

Details of Proposed Development

Application for a Minor Change to the Development Approval for Operational Works (Bridge Replacement)

Decision

Date of Decision: 16 October 2025
Decision Approved whereby:
Details:

1. Condition 10 is deleted as follows;

~~10. Necessary boundary realignment~~

~~Prior to commencement of work, the necessary boundary realignment for road opening into National Park land must be finalised.~~

2. All other conditions and requirements of the Decision Notice No. OP 2020_3516/2 dated 15 October June 2020 remain unchanged.

3. The table of Approved Drawing(s) and/or Document(s) is amended as follows;

Approved Drawing(s) and/or Document(s)

Copies of the following plans, specifications and/or drawings are enclosed.

The term 'approved drawing(s) and/or document(s) or other similar expressions means:

Drawing or Document	Reference	Date
Locality Plan	Plan prepared by Premise, Sheet No. C001	Not nominated
Safety in Design Report	Plan prepared by Premise, Sheet No. C002	12 April 2019
Typical Cross Sections	Plan prepared by Premise, Sheet No. C003	12 April 2019
Road Geometry Plan	Plan prepared by Premise, Sheet No. C004	12 April 2019
Roadworks and Longitudinal Section Plan	Plan prepared by Premise, Sheet No. C005	12 April 2019
Roadworks Details, Pavement and Drainage Plan	Plan prepared by Premise, Sheet No. C006	12 April 2019
Culvert Details Plan	Plan prepared by Premise, Sheet No. C007	12 April 2019
Signage and Line Marking Plan	Plan prepared by Premise, Sheet No. C008	12 April 2019
Road Cross Sections Sheet 1 of 2	Plan prepared by Premise, Sheet No. C009	12 April 2019
Road Cross Sections Sheet 2 of 2	Plan prepared by Premise, Sheet No. C010	12 April 2019
Access Details Plan	Plan prepared by Premise, Sheet No. C011	12 April 2019
Resumption Plan	Plan prepared by Premise, Sheet No. C012	12 April 2019
Structural Notes	Plan prepared by Premise, Sheet No. C013	3 June 2019
General Arrangement	Plan prepared by Premise, Sheet No. C014	5 June 2019

Plan		
General Arrangement-Long Section	Plan prepared by Premise, Sheet No. C015	5 June 2019
General Arrangement-Scour Protection Details	Plan prepared by Premise, Sheet No. C016	5 June 2019
Coversheet, Locality Plan & Drawing Index	JJR-1240502B-ST001 Issue A	27/01/2025
Specifications and Notes	Sheet 1-3 JJR-1240502B-ST002 Issue A	27/01/2025
Specifications and Notes	Sheet 2-3 JJR-1240502B-ST003 Issue A	27/01/2025
Specifications and Notes	Sheet 3-3 JJR-1240502B-ST004 Issue A	27/01/2025
Site Plan	JJR-1240502B-ST005 Issue A	27/01/2025
Long Section	JJR-1240502B-ST006 Issue A	27/01/2025
Plan and Deck Cross Section	JJR-1240502B-ST007 Issue A	27/01/2025
Abutment & Headstock Elevation	JJR-1240502B-ST008 Issue A	27/01/2025
Wingwall and Receiving Slab Elevation	JJR-1240502B-ST009 Issue A	27/01/2025
Anchorage Details	JJR-1240502B-ST0010 Issue A	27/01/2025
Abutment Headstock Plan and Sections	JJR-1240502B-ST0011 Issue A	27/01/2025
Abutment Headstock Reinforcement	JJR-1240502B-ST0012 Issue A	27/01/2025

Pier Headstock Plan and Sections	JJR-1240502B-ST0013 Issue A	27/01/2025
Pier Headstock Reinforcement	JJR-1240502B-ST0014 Issue A	27/01/2025
Pile Coordinate Plan	JJR-1240502B-ST0015 Issue A	27/01/2025
Piles Layout	JJR-1240502B-ST0016 Issue A	27/01/2025
Precast Wingwall	JJR-1240502B-ST0017 Issue A	27/01/2025
Precast Wingwall Reinforcement	Sheet 1-2 JJR-1240502B-ST0018 Issue A	27/01/2025
Precast Wingwall Reinforcement	Sheet 2-2 JJR-1240502B-ST0019 Issue A	27/01/2025
Plan and Details Kerb-Railing Connection	JJR-1240502B-ST0020 Issue A	27/01/2025
Cover Sheet, Locality Plan & Drawing Schedule	Prepared by Premises Sheet No. C001 Rev 2 Job Code P001388	13/02/2025
Safety In Design Report	Prepared by Premises Sheet No. C002 Sheet 1 of 2 Rev 2 Job Code P001388	13/02/2025
Safety In Design Report	Prepared by Premises Sheet No. C003 Sheet 2 of 2 Rev 2 Job Code P001388	13/02/2025
General Notes	Prepared by Premises Sheet No. C004 Rev 2 Job Code P001388	13/02/2025
Road Geometry Plan	Prepared by Premises Sheet No. C005 Rev 2	13/02/2025

	Job Code P001388	
Typical Sections	Prepared by Premises Sheet No. C006 Sheet 1 of 2 Rev 2 Job Code P001388	13/02/2025
Typical Sections	Prepared by Premises Sheet No. C007 Sheet 2 of 2 Rev 2 Job Code P001388	13/02/2025
Working Plan	Prepared by Premises Sheet No. C008 Sheet 1 of 2 Rev 2 Job Code P001388	13/02/2025
Working Plan	Prepared by Premises Sheet No. C009 Sheet 2 of 2 Rev 2 Job Code P001388	13/02/2025
Property Access Plan	Prepared by Premises Sheet No. C0010 Sheet 1 of 2 Rev 2 Job Code P001388	13/02/2025
Property Access Plan	Prepared by Premises Sheet No. C0011 Sheet 2 of 2 Rev 2 Job Code P001388	13/02/2025
Stormwater Culvert Plan Details	Prepared by Premises Sheet No. C0012 Rev 2 Job Code P001388	13/02/2025
Soil Erosion & Sediment Control	Prepared by Premises Sheet No. C0013 Sheet 1 of 2 Rev 2 Job Code P001388	13/02/2025
Soil Erosion & Sediment Control	Prepared by Premises Sheet No. C0014 Sheet 2 of 2 Rev 2 Job Code P001388	13/02/2025
Road Cross Sections	Prepared by Premises Sheet No. C0015 Sheet 1 of 4 Rev 2	13/02/2025

	Job Code P001388	
Road Cross Sections	Prepared by Premises Sheet No. C0016 Sheet 2 of 4 Rev 2 Job Code P001388	13/02/2025
Road Cross Sections	Prepared by Premises Sheet No. C0017 Sheet 3 of 4 Rev 2 Job Code P001388	13/02/2025
Road Cross Sections	Prepared by Premises Sheet No. C0018 Sheet 4 of 4 Rev 2 Job Code P001388	13/02/2025

4. The Decision Notice updates the table for the Concurrence Agency Conditions and Requirements is amended as follows.

Concurrence Agency Conditions & Requirements

Concurrence Agency	Concurrence Agency Reference	Date	Doc ID
State Assessment Referral Agency	2503-44955 SRA, in accordance with concurrence advice dated 23 May 2025 (Council Doc ID 1297852) and as amended by 2506-46415 SPD in accordance with concurrence advice dated 24 September 2025 (Council Doc id; 1323682)	15 September 2020 24 September 2025	972489 1323682

Further Development Permits

Not applicable

Concurrence Agency Response

Concurrence Agency	Concurrence Agency Reference	Date	Doc ID
State Assessment Referral Agency	2503-44955 SRA, in accordance with concurrence advice dated 23 May 2025 (Council Doc ID 1297852) and as amended by 2506-46415 SPD in accordance with concurrence advice dated 24	23 May 2025 24 September 2025	1297852 1323682

	September 2025 (Council Doc id; 1323682)		
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Note – Concurrence Agency Response is attached. This Concurrence Agency Response maybe amended by agreement with the respective agency.

Currency Period for the Approval

This approval, granted under the provisions of the *Planning Act 2016*, does not change the currency period, being the approval shall lapse four (4) years from the day the approval takes effect (4 June 2025) in accordance with the provisions of Section 85 of the *Planning Act 2016*.

Rights of Appeal

The rights of applicants rights to appeal to a Tribunal or the Planning and Environment Court against decisions about a development application are set out in Chapter 6, Part 1 of the *Planning Act 2016*.

A copy of the relevant appeal provisions is attached.

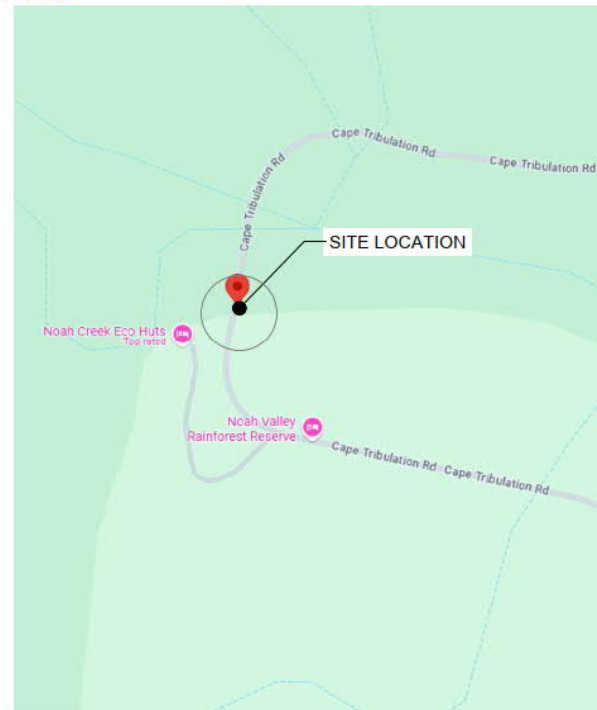
Approved Drawing(s) and/or Document(s)

DOUGLAS SHIRE COUNCIL

NOAH CREEK BRIDGE NOAH CREEK, CAPE TRIBULATION RD DETAILED DESIGN

DRAWING INDEX

DRAWING NUMBER	DRAWING DESCRIPTION
JJR-1240502B-ST001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
JJR-1240502B-ST002	SPECIFICATIONS AND NOTES- SHEET 1-3
JJR-1240502B-ST003	SPECIFICATIONS AND NOTES- SHEET 2-3
JJR-1240502B-ST004	SPECIFICATIONS AND NOTES- SHEET 3-3
JJR-1240502B-ST005	SITE PLAN
JJR-1240502B-ST006	LONG SECTION
JJR-1240502B-ST007	PLAN AND DECK CROSS SECTION
JJR-1240502B-ST008	ABUTMENT & HEADSTOCK ELEVATION
JJR-1240502B-ST009	WINGWALL & RELIEVING SLAB ELEVATION
JJR-1240502B-ST010	ANCHORAGE DETAILS
JJR-1240502B-ST011	ABUTMENT HEADSTOCK PLAN AND SECTIONS
JJR-1240502B-ST012	ABUTMENT HEADSTOCK REINFORCEMENT
JJR-1240502B-ST013	PIER HEADSTOCK PLAN AND SECTIONS
JJR-1240502B-ST014	PIER HEADSTOCK REINFORCEMENT
JJR-1240502B-ST015	PILE COORDINATE PLAN
JJR-1240502B-ST016	PILES - LAYOUT
JJR-1240502B-ST017	PRECAST WINGWALL
JJR-1240502B-ST018	PRECAST WINGWALL REINFORCEMENT-SHEET 1-2
JJR-1240502B-ST019	PRECAST WINGWALL REINFORCEMENT-SHEET 1-2
JJR-1240502B-ST020	PLAN AND DETAILS KERB - RAILING CONNECTION



LOCALITY PLAN
N.T.S.

THIS SHEET MAY BE PREPARED, REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM THE PROJECT MANAGER.
 ALL INFORMATION IS UNCLASSIFIED
 18 MAY 2020

REVISIONS				REVISIONS				REVISIONS			
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDERS	27.01.2020	NR	1	ISSUED FOR TENDERS	27.01.2020	NR	1	ISSUED FOR TENDERS	27.01.2020	NR
2	FOR REVIEW			2	FOR REVIEW			2	FOR REVIEW		
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[illegible]

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE BRIDGE SPECIFICATION, PROJECT SPECIFICATION, AND AMENDMENTS, CIVIL DRAWINGS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE PROJECT.
2. ALL DIMENSIONS ARE IN MILLIMETRES, EXCEPT FOR CHAINAGES AND HT'S, WHICH ARE MEASURED IN METRES.
3. DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWINGS.
4. SET-OUT COORDINATES ARE TO GEOCENTRIC DATUM OF AUSTRALIA 94.
5. ALL LEVELS AND DIMENSIONS RELEVANT TO SETTING OUT AND OFFSITE FABRICATION SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCING WORK. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT.
6. THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN OBTAINED FROM EXISTING RECORDS FOR WHICH ACCURACY CANNOT BE GUARANTEED. ALL SERVICE LOCATIONS SHALL BE CONFIRMED ON SITE BEFORE COMMENCING WORK.
7. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE CONTRACTOR SHALL CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE POSSIBLE LOCATION OF ADDITIONAL SERVICES AND THE DETAILED LOCATION AND DEPTH OF ALL SERVICES AND ARRANGE FOR THEIR RELOCATION WHERE NECESSARY.
8. THE CONTRACTOR SHALL MAINTAIN ALL WORK SITES IN A SAFE AND STABLE CONDITION.
9. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS (AS) AND TMR STANDARDS EXCEPT WHERE VARIED BY THE SPECIFICATIONS.
10. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE USED, SUBJECT TO THE APPROVAL OF THE DESIGNER. PROPRIETARY ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE APPROPRIATE TECHNICAL SPECIFICATION.
11. BOREHOLE LOCATION SHOWN THUS: 
12. A DATE PLATE IS TO BE CAST INTO THE OUTSIDE FACE OF THE LEFT HAND WING WALL AT ABUTMENT A FOR EACH BRIDGE.
13. A PERMANENT SURVEY MARK IS TO BE CAST INTO THE TOP OF THE LEFT HAND WING WALL AT ABUTMENT A FOR EACH BRIDGE.
14. ALL CROSS REFERENCES BETWEEN DRAWINGS REFER TO THE 'SERIES NUMBER' OF THE ASSOCIATED DRAWINGS AND NOT THE 'DRAWING No.'

EXISTING SERVICES:

DESIGN DATA:

1. BRIDGE DESIGNED IN ACCORDANCE WITH AS5100-2017
2. DESIGN LOADS:
 - LIVE LOADS: 2 DESIGN LANE SM1600 LOADING
 - DESIGN SPEED M1600: 70KM/HR (POSTED 60KM/HR) FOR TWO-LANE CARRIAGEWAY INTERIM CONFIGURATION
 - EARTHQUAKE LOADS: BRIDGE EARTHQUAKE DESIGN CATEGORY = BEDC 2
 - FLOOD LOADS: DESIGN FLOOD LEVEL
 - Q10 = RL 3.07
 - Q20 = RL 3.56
 - Q100 = RL 4.17
 - Q200 = RL 4.54
 - Q2000 = RL 5.17DESIGN FLOOD VELOCITY
 - Q20 = 3.16 m/s
 - Q100 = 3.74 m/s
 - Q200 = 4.38 m/s
 - Q2000 = 4.20 m/s
 - WIND LOADS: $V_r = 77 \text{ m/s}$ (ULS), 47 m/s (SLS)
 - THERMAL LOADS: TEMPERATURE DIFFERENTIAL = $+23^\circ\text{C} / -27^\circ\text{C}$
 - MINIMUM LATERAL LOAD: 500kN
 - BARRIER PERFORMANCE LEVEL: REGULAR
3. CONSTRUCTION LOADS TO BE LIMITED TO LESS THAN DESIGN LOADS.

CONCRETE

1. ALL CONCRETE WORK INCLUDING COMPACTION OPERATIONS, CURING AND FINISHES SHALL BE IN ACCORDANCE WITH AS5100.5 & MRTS70.
2. ALL EXPOSED EDGES (INSITU AND PRECAST, EXCEPT DECK UNITS) TO HAVE 19x19 CHAMFERS UNLESS SHOWN OTHERWISE.
3. CONCRETE CLASS (FOR DURABILITY) AND MINIMUM COVER TO ALL REINFORCEMENT FOR VARIOUS ELEMENTS SHALL BE AS FOLLOWS :

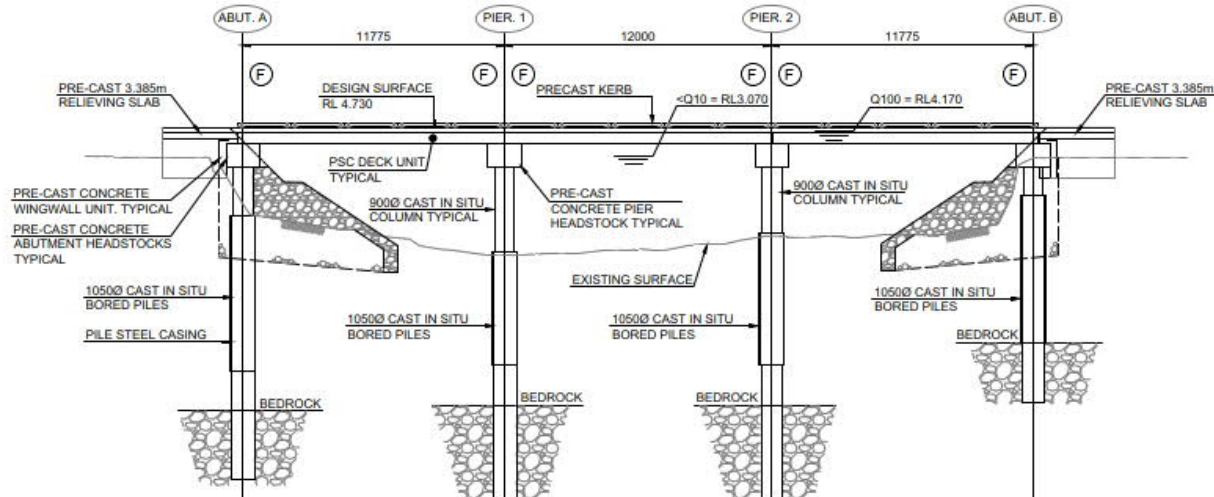
ELEMENT	EXPOSURE CLASS	CLASS	MIN. COVER (mm)	REMARKS
BLINDING CONCRETE		N20/20		
CONCRETE BORED PILES	C2	S55/20	80	CAST AGAINST FORMWORK
PIER HEADSTOCKS	B2	S50/20	50	RIGID FORMWORK AND INTENSE COMPACTION
ABUTMENT HEADSTOCKS, BALLAST WALLS, AND WING WALLS	B2	S50/20	50	RIGID FORMWORK AND INTENSE COMPACTION
PRECAST BEAMS	B2	S50/20	40	RIGID FORMWORK AND INTENSE COMPACTION
RELIEVING SLABS	B2	S40/20	50	RIGID FORMWORK AND INTENSE COMPACTION

4. NO HOLES, CHASES, OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE SUPERINTENDENT.
5. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON THE DRAWINGS OR APPROVED BY THE SUPERINTENDENT.
6. THE CONTRACTOR IS TO TAKE SPECIAL PRECAUTIONS TO IMPROVE THE LONG TERM PERFORMANCE OF THE EXPOSED FACES OF CONCRETE. IN PARTICULAR, NO METAL INSERTS, METAL BAR CHAIRS OR METAL SPACERS OR ANY KIND ARE TO BE PLACED ON THE COVER ZONES.
7. DETAILS OF CONCRETE MIX, AGGREGATE SIZE AND COLOUR, METHOD OF CURING AND FINISH ARE TO BE SUBMITTED FOR APPROVAL BY THE DESIGNER AT LEAST (6) WEEKS PRIOR TO COMMENCING CONCRETE WORKS.

13.00		13.01		13.02		13.03		13.04		13.05		13.06		13.07		13.08		13.09		13.10		13.11		13.12		13.13		13.14		13.15		13.16		13.17		13.18		13.19		13.20		13.21		13.22		13.23		13.24		13.25		13.26		13.27		13.28		13.29		13.30		13.31		13.32		13.33		13.34		13.35		13.36		13.37		13.38		13.39		13.40		13.41		13.42		13.43		13.44		13.45		13.46		13.47		13.48		13.49		13.50		13.51		13.52		13.53		13.54		13.55		13.56		13.57		13.58		13.59		13.60		13.61		13.62		13.63		13.64		13.65		13.66		13.67		13.68		13.69		13.70		13.71		13.72		13.73		13.74		13.75		13.76		13.77		13.78		13.79		13.80		13.81		13.82		13.83		13.84		13.85		13.86		13.87		13.88		13.89		13.90		13.91		13.92		13.93		13.94		13.95		13.96		13.97		13.98		13.99		14.00		14.01		14.02		14.03		14.04		14.05		14.06		14.07		14.08		14.09		14.10		14.11		14.12		14.13		14.14		14.15		14.16		14.17		14.18		14.19		14.20		14.21		14.22		14.23		14.24		14.25		14.26		14.27		14.28		14.29		14.30		14.31		14.32		14.33		14.34		14.35		14.36		14.37		14.38		14.39		14.40		14.41		14.42		14.43		14.44		14.45		14.46		14.47		14.48		14.49		14.50		14.51		14.52		14.53		14.54		14.55		14.56		14.57		14.58		14.59		14.60		14.61		14.62		14.63		14.64		14.65		14.66		14.67		14.68		14.69		14.70		14.71		14.72		14.73		14.74		14.75		14.76		14.77		14.78		14.79		14.80		14.81		14.82		14.83		14.84		14.85		14.86		14.87		14.88		14.89		14.90		14.91		14.92		14.93		14.94		14.95		14.96		14.97		14.98		14.99		15.00		15.01		15.02		15.03		15.04		15.05		15.06		15.07		15.08		15.09		15.10		15.11		15.12		15.13		15.14		15.15		15.16		15.17		15.18		15.19		15.20		15.21		15.22		15.23		15.24		15.25		15.26		15.27		15.28		15.29		15.30		15.31		15.32		15.33		15.34		15.35		15.36		15.37		15.38		15.39		15.40		15.41		15.42		15.43		15.44		15.45		15.46		15.47		15.48		15.49		15.50		15.51		15.52		15.53		15.54		15.55		15.56		15.57		15.58		15.59		15.60		15.61		15.62		15.63		15.64		15.65		15.66		15.67		15.68		15.69		15.70		15.71		15.72		15.73		15.74		15.75		15.76		15.77		15.78		15.79		15.80		15.81		15.82		15.83		15.84		15.85		15.86		15.87		15.88		15.89		15.90		15.91	
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LEGEND

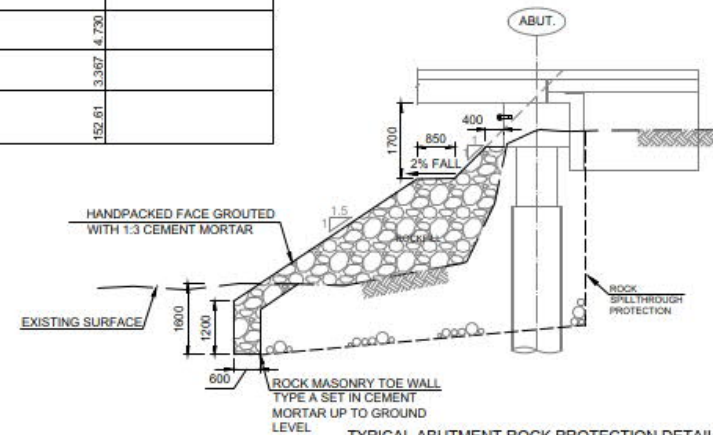
(F) DENOTES FIXED JOINT ARTICULATION



DATUM RL. -13.000

VERTICAL ALIGNMENT				
DESIGN SURFACE LEVEL	117.06	128.835	140.835	152.61
EXISTING SURFACE LEVEL	117.06	128.835	140.835	152.61
CHAINAGE	117.06	128.835	140.835	152.61

LONG SECTION ALONG BRIDGE CONTROL LINE
SCALE 1:200



TYPICAL ABUTMENT ROCK PROTECTION DETAIL
SCALE 1:100

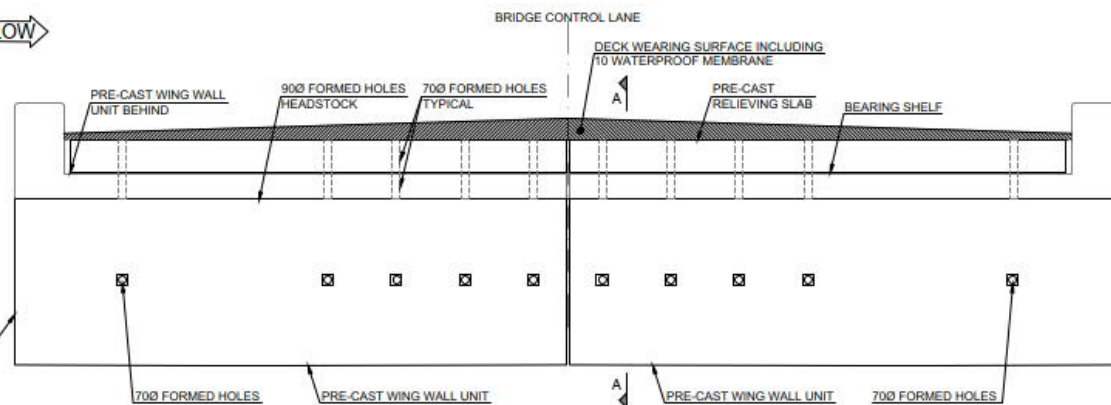
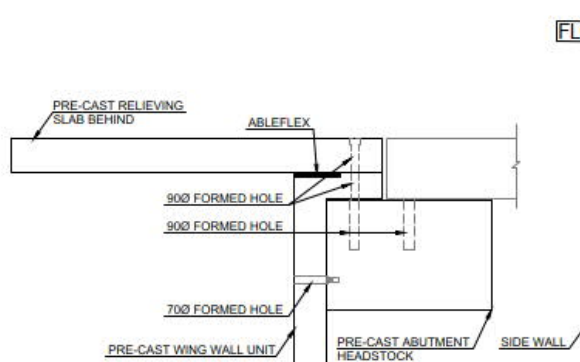
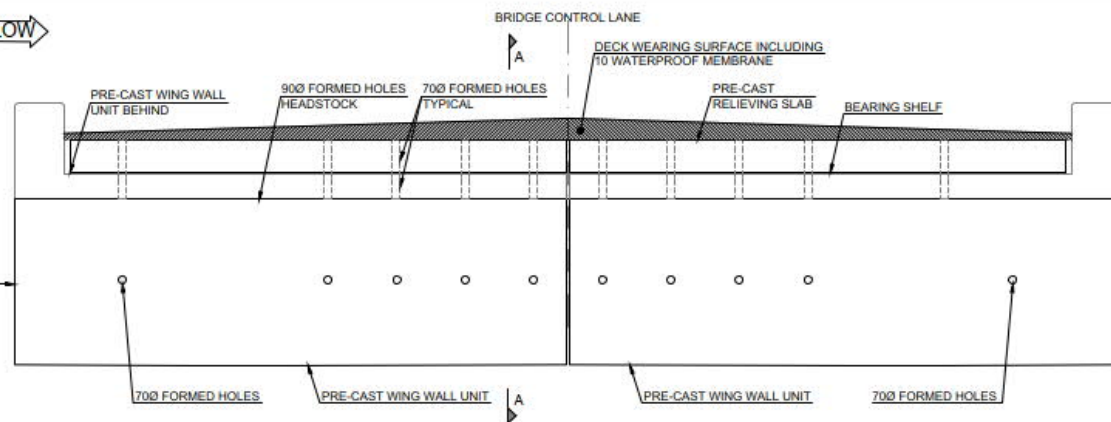
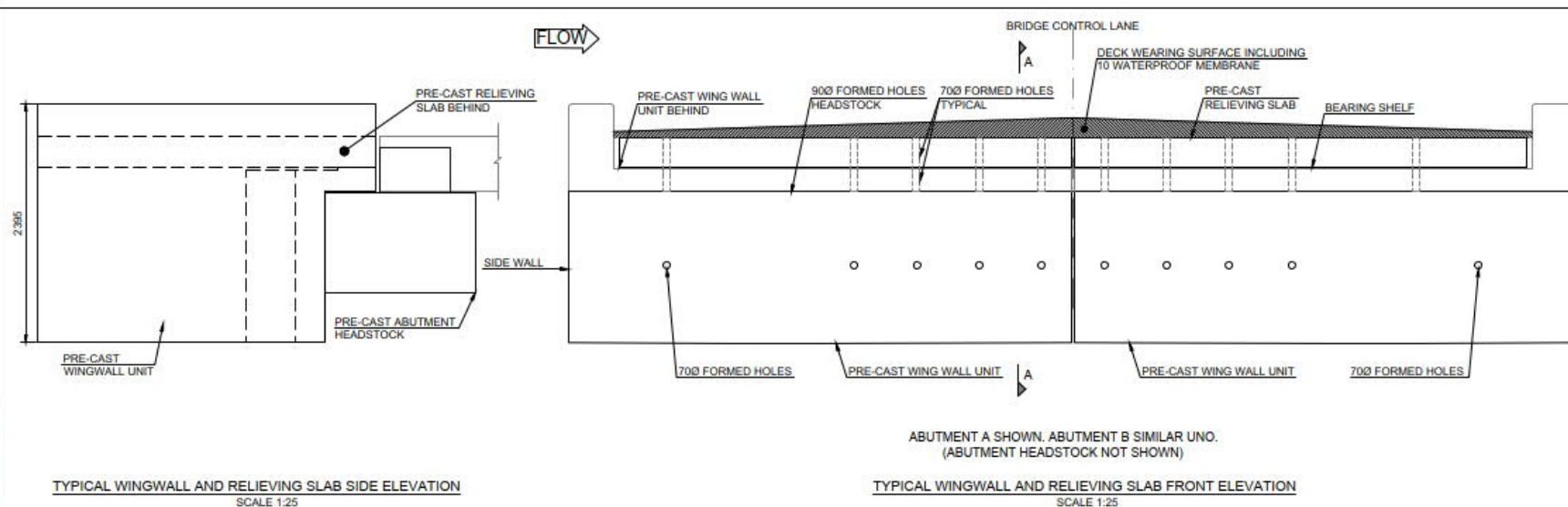
DOUGLAS SHIRE COUNCIL

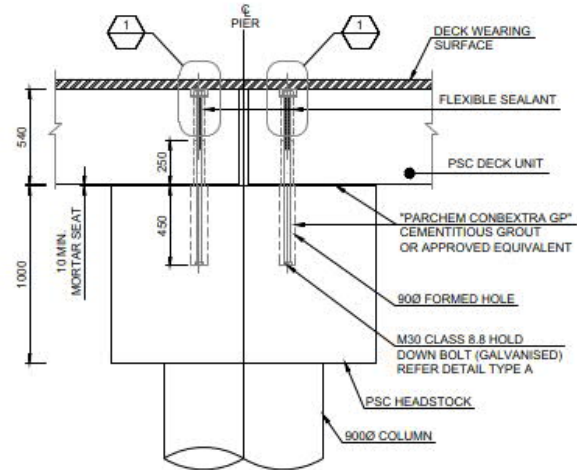
NOAH CREEK BRIDGE
NOAH CREEK, CAPE TRIBULATION RD
LONG SECTION

IFR JJR-1240502B-ST006

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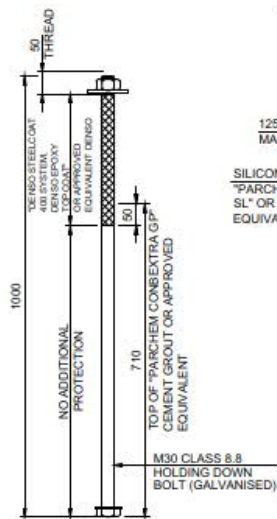


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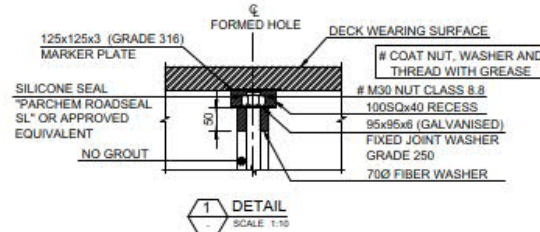


ABUTMENT B OPPOSITE HAND
BOLTED ANCHORAGE DETAIL - ABUTMENT A
SCALE 1:25

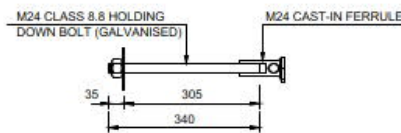
BOLTED ANCHORAGE DETAIL - PIER 1 & 2
SCALE 1:25



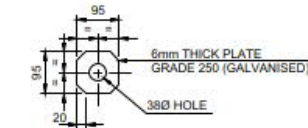
HOLD DOWN BOLT - TYPE A
CORROSION PROTECTION DETAIL
SCALE 1:10



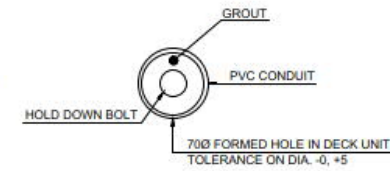
1 DETAIL
SCALE 1:10



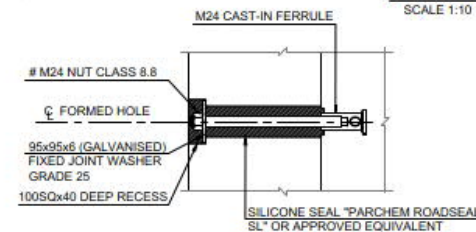
HOLD DOWN BOLT - TYPE B
CORROSION PROTECTION DETAIL
SCALE 1:10



FIXED JOINT WASHER
SCALE 1:10

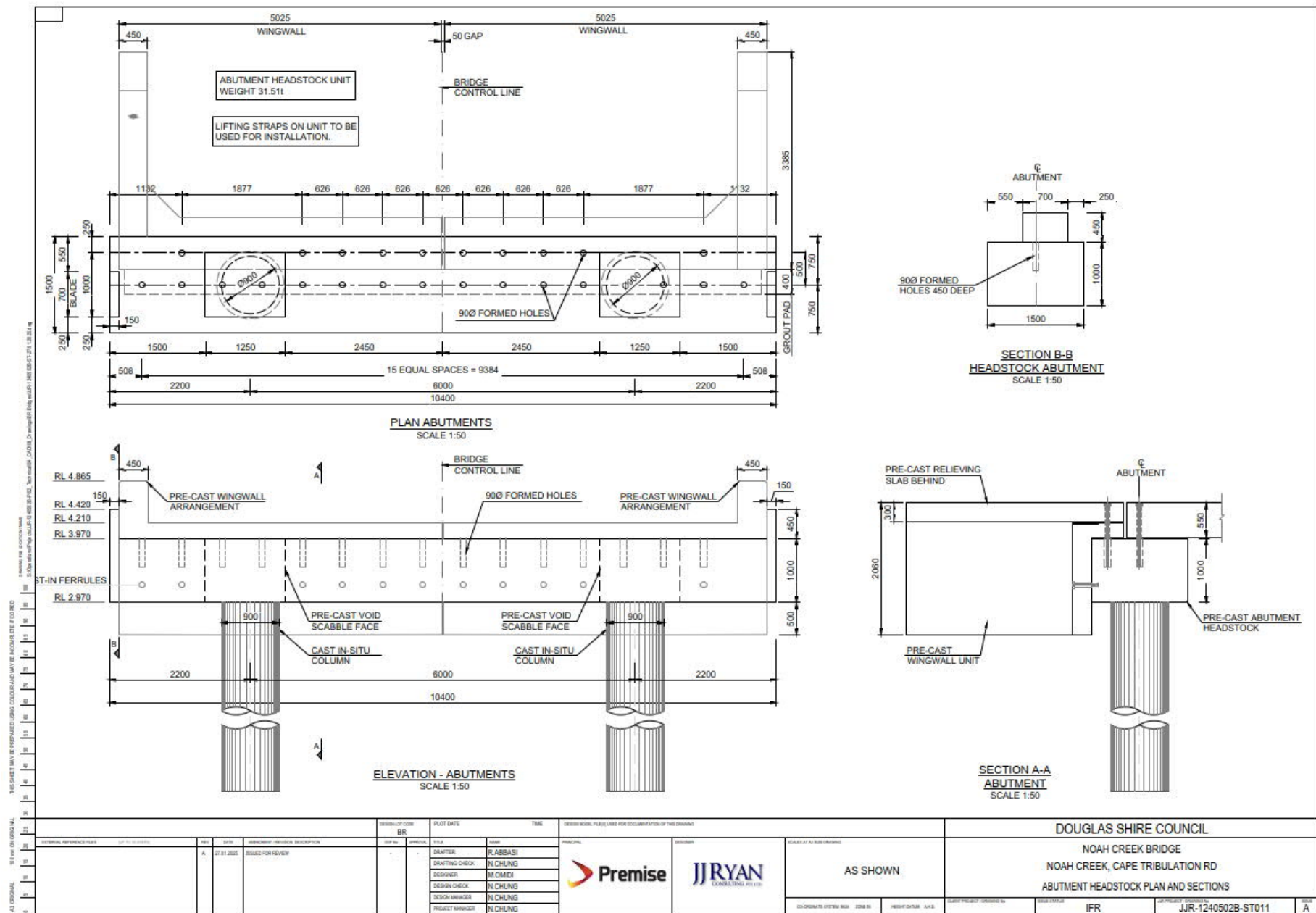


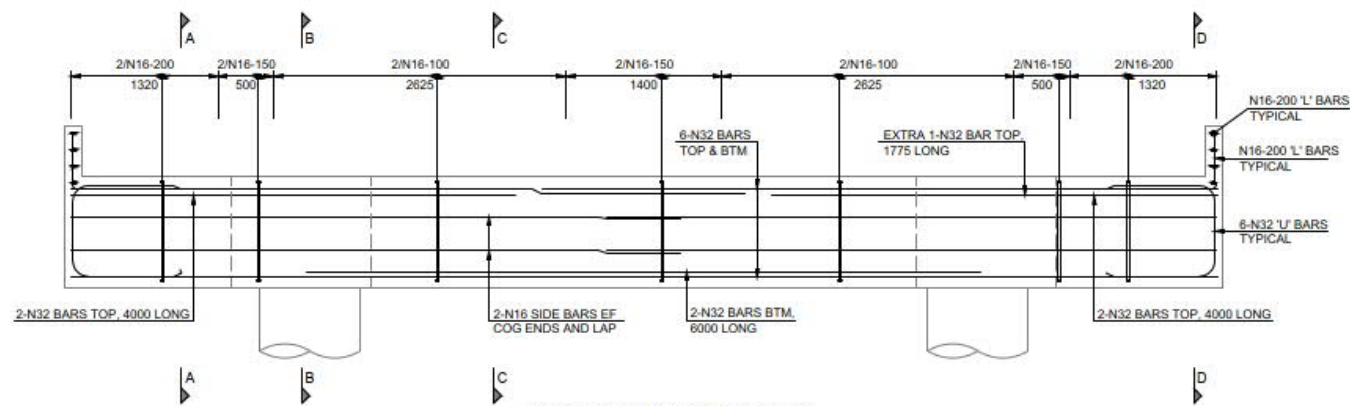
PLAN
FIXED JOINT
SCALE 1:10



2 DETAIL
SCALE 1:10

DOUGLAS SHIRE COUNCIL			
NOAH CREEK BRIDGE			
NOAH CREEK, CAPE TRIBULATION RD			
ANCHORAGE DETAILS			
CLIENT PROJECT CODE/NO BY	DATE DRAFT	IFR	JOB PREPARED BY/DATE BY JLR-1240502R-ST010 SHEET A

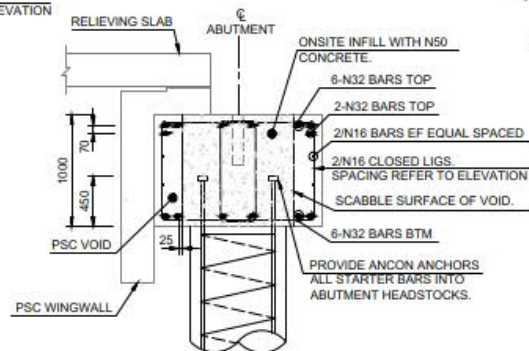
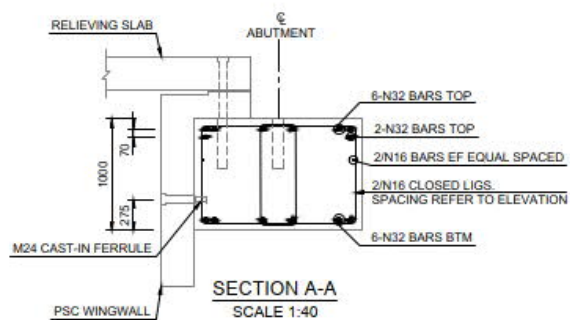




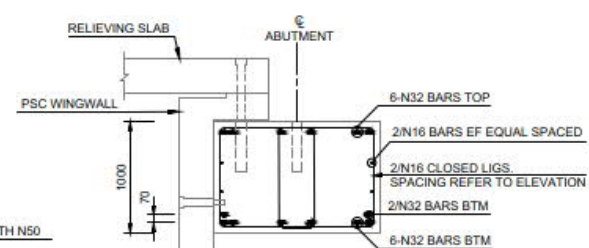
ABUTMENT A SHOWN. ABUTMENT B SIMILAR.

TYPICAL ABUTMENT HEADSTOCK REINFORCEMENT

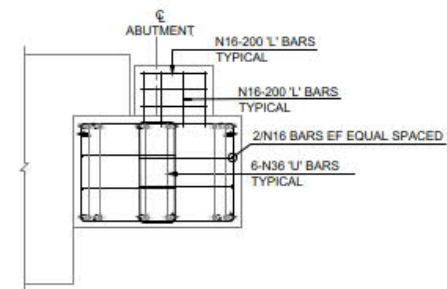
ELEVATION
SCALE 1:40



SECTION B-B
SCALE 1:40

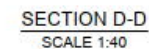
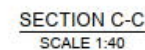
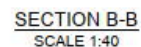
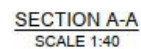
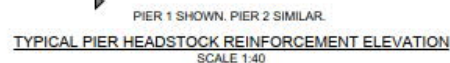


SECTION C-C
SCALE 1:40



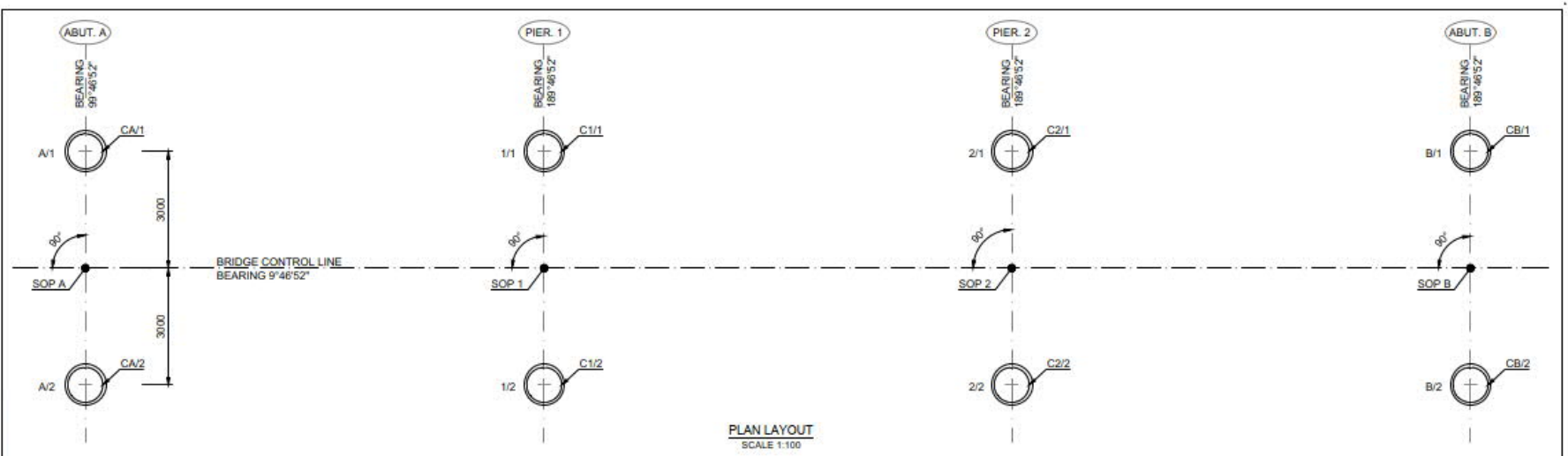
SECTION D-D
SCALE 1:40

[illegible]



DOUGLAS SHIRE COUNCIL									
NOAH CREEK BRIDGE									
NOAH CREEK, CAPE TRIBULATION RD									
PIER HEADSTOCK REINFORCEMENT									
AS SHOWN									
CO-ORDINATE SYSTEM CODE: 5006 IN									
PROJECT DATE: 1/1/20									
CLIENT PROJECT: 12405028-ST014									
IFR									
JUR-12405028-ST014									
A									

THIS DRAWING MAY BE PREPARED USING COLOUR AND MAY BE REPRODUCED IN COLOUR OR IN BLACK AND WHITE. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.



PLAN LAYOUT
SCALE 1:100

NOTES:

- FOR CONSTRUCTION NOTES REFER TO DRAWING No. NQC-0023-S001 PILE
- CONSTRUCTION AND INSTALLATION TO BE IN ACCORDANCE WITH MRTS65, MRTS68 AND AS2159

PILE SCHEDULE NOTES

- PILE LOAD VALUES GIVEN ARE MAXIMUMS AND MAY NOT OCCUR CONCURRENTLY

NOTE:

STEEL LINER TO BE DESIGNED BY PILING CONTRACTOR

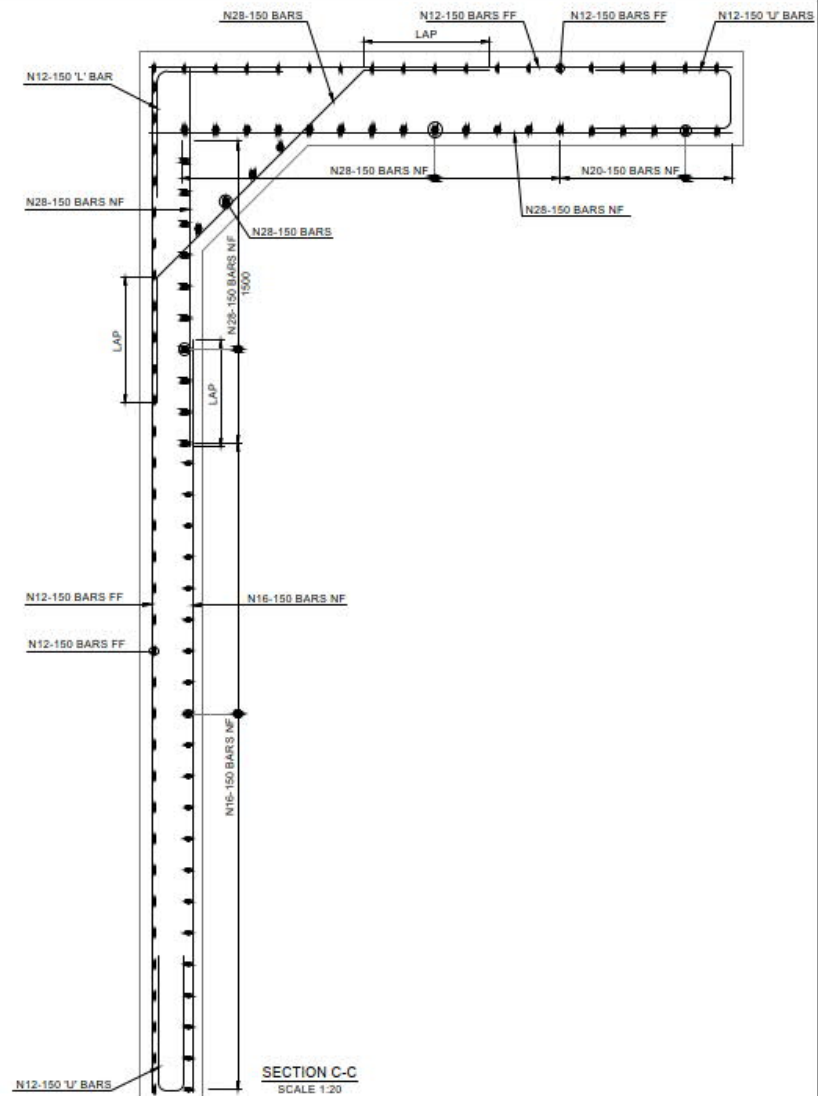
NOTE:

ALLOWANCE, IN PROVISIONAL LINER BOTTOM HI, OF 1000mm EMBEDMENT, FOR STEEL LINER, INTO HARD RESIDUAL CLAY LEVEL FOR SEALING OF PILES

STEEL LINER SCHEDULE				
LOCATION	PILE MARK	INNER DIA. (mm)	NOMINAL LENGTH (m)	PROVISIONAL LINER BOTTOM RL HI (m) AHD
ABUTMENT A	A/1	1050	7.00	-6.25
	A/2	1050	7.00	-6.25
PIER 1	1/1	1050	5.10	-5.95
	1/2	1050	5.10	-5.95
PIER 2	2/1	1050	5.95	-5.95
	2/2	1050	5.95	-5.95
ABUTMENT B	B/1	1050	6.60	-4.95
	B/2	1050	6.60	-4.95

SETOUT POINTS		
POINT	EASTING	NORTHING
SOP A	332176271.670	8214898073.137
SOP 1	332178272.068	8214909676.974
SOP 2	332180310.691	8214921502.541
SOP B	332182311.089	8214933106.378

DESIGN/LOT CODE BR				PLOT DATE TIME		DESIGN/SCALE PLANS USED FOR DOCUMENTATION OF THIS DRAWING		DOUGLAS SHIRE COUNCIL			
REVISIONS				DRAWN BY RABBASI		CHECKED BY N.CHUNG		NOAH CREEK BRIDGE			
NOAH CREEK BRIDGE				DESIGNED BY N.CHUNG		DESIGNED BY N.CHUNG		NOAH CREEK, CAPE TRIBULATION RD			
NOAH CREEK BRIDGE				DESIGNED BY N.CHUNG		DESIGNED BY N.CHUNG		PILE COORDINATE PLAN			
NOAH CREEK BRIDGE				DESIGNED BY N.CHUNG		DESIGNED BY N.CHUNG		PROJECT NO. JJR-12405028-ST015			
NOAH CREEK BRIDGE				DESIGNED BY N.CHUNG		DESIGNED BY N.CHUNG		SCALE A			



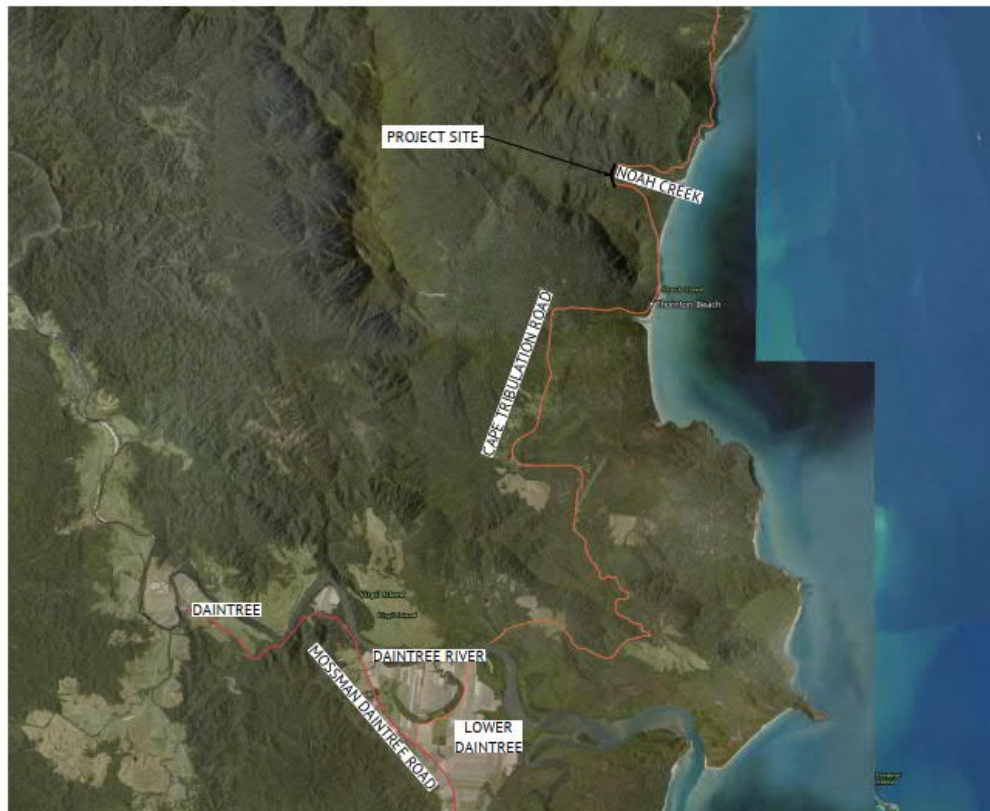
SECTION C-C
SCALE 1:20

[illegible]

NOAH CREEK BRIDGE AND APPROACHES

NOAH CREEK, CAPE TRIBULATION

FOR DOUGLAS SHIRE COUNCIL



LOCALITY PLAN
NTS

DRAWING SCHEDULE	
DRAWING NO.	DRAWING TITLE
C001	COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE
C002	SAFETY IN DESIGN REPORT - SHEET 1 OF 2
C003	SAFETY IN DESIGN REPORT - SHEET 2 OF 2
C004	GENERAL NOTES
C005	ROAD GEOMETRY PLAN
C006	TYPICAL SECTIONS - SHEET 1 OF 2
C007	TYPICAL SECTIONS - SHEET 2 OF 2
C008	WORKING PLAN - SHEET 1 OF 2
C009	WORKING PLAN - SHEET 2 OF 2
C010	PROPERTY ACCESS PLAN - SHEET 1 OF 2
C011	PROPERTY ACCESS PLAN - SHEET 2 OF 2
C012	STORMWATER CULVERT DETAILS PLAN
C013	SOIL EROSION & SEDIMENT CONTROL - SHEET 1 OF 2
C014	SOIL EROSION & SEDIMENT CONTROL - SHEET 2 OF 2
C015	CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 1 OF 4
C016	CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 2 OF 4
C017	CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 3 OF 4
C018	CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 4 OF 4

PRELIMINARY - NOT FOR CONSTRUCTION										 TOWNSVILLE OFFICE 84 DENHAM STREET PO BOX 1110 TOWNSVILLE, QLD 4810 PH: (07) 4772 0666 WEB: www.premise.com.au										DESIGNER S. BROGAN CHECKED S. BROGAN PROJECT MANAGER R. PERKINS ENGINEERING CERTIFICATION R. PERKINS RPEQ 2359										DOUGLAS SHIRE COUNCIL										P001388									
PROJECT NOAH CREEK BRIDGE AND APPROACHES										PROJECT NOAH CREEK BRIDGE AND APPROACHES										PROJECT NOAH CREEK BRIDGE AND APPROACHES										PROJECT NOAH CREEK BRIDGE AND APPROACHES																			
LOCATION NOAH CREEK, CAPE TRIBULATION										LOCATION NOAH CREEK, CAPE TRIBULATION										LOCATION NOAH CREEK, CAPE TRIBULATION										LOCATION NOAH CREEK, CAPE TRIBULATION																			
SHEET TITLE COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE										SHEET TITLE COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE										SHEET TITLE COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE										SHEET TITLE COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE																			
SHEET NUMBER C001										SHEET NUMBER C001										SHEET NUMBER C001										SHEET NUMBER C001																			
REV 2										REV 2										REV 2										REV 2																			

SAFE DESIGN ASSESSMENT

ITEM NO.	ITEM DESCRIPTION	SAFE DESIGN CRITERIA
1	DESIGN CONSIDERATIONS (GENERAL)	DESIGN STANDARDS/GUIDELINES - PNQRC DEVELOPMENT MANUAL: DESIGN GUIDELINES (ISSUE 9, 2023) - AUSTRROADS GUIDE TO ROAD DESIGN PART 5: GEOMETRIC DESIGN (FEBRUARY 2021) - TMR ROAD PLANNING AND DESIGN MANUAL EDITION 2: VOLUME 3 (OCTOBER 2024) - TMR - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - AS1742 - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ROAD HIERARCHY - CAPE TRIBULATION ROAD - SUB ARTERIAL ROAD DESIGN SPEEDS - CAPE TRIBULATION ROAD - 70 km/h DESIGN, 60 km/h POSTED. TRAFFIC VOLUME - CAPE TRIBULATION ROAD - 655 AADT (2020 TRAFFIC CENSUS FROM QLD GLOBE), 1400 AADT (DESIGN VOLUME BASED ON 3% GROWTH OVER 25 YEARS) ROADSIDE RISK ASSESSMENT RISK ASSESSMENT WAS COMPLETED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6 - APPENDIX B (AUGUST 2024) CRASH DATA QLD GLOBE / QLD SPATIAL DATA WITHIN THE ROAD EXTENT FOR THIS PROJECT A SINGLE VEHICLE OFF-PATH-CURVE CRASH OCCURRED IN 2002 RESULTING IN MINOR INJURIES, APPROXIMATELY 450m SOUTH EAST OF NOAH CREEK BRIDGE A SINGLE VEHICLE OFF-PATH-CURVE CRASH OCCURRED IN 2001 RESULTING IN PROPERTY DAMAGE ONLY, APPROXIMATELY 740m SOUTH EAST OF NOAH CREEK BRIDGE A MULTI-VEHICLE HEAD ON CRASH OCCURRED IN 2008 RESULTING IN A HOSPITALISATION, NO OTHER CRASHES HAVE BEEN IDENTIFIED, BASED ON THE CRASH DATA AS NO CRASHES HAVE OCCURRED FOR MORE THAN 20 YEARS THE LIKELIHOOD OF CRASHES IS RARE FOR THE DESIGN HAZARD RISK ASSESSMENT THE DESIGNER HAS ADOPTED LIKELIHOOD LEVELS OF RARE OR GREATER.
2	CROSS SECTION	8.0m WIDE SEALED FORMATION, 3.25m SEALED LANES, 0.75m SEALED SHOULDERS HAVE BEEN ADOPTED. SHOULDERS WIDENED TO 1.35m TO MATCH BRIDGE WIDTH. FORMATION WIDTH IS LESS THAN 8.0m WHERE THE DESIGN JOINS EXISTING. IN ACCORDANCE WITH AUSTRROADS AND BASED ON A DESIGN AADT OF 1000-3000 THE ABOVE WIDTHS ARE CONSIDERED A DESIGN EXCEPTION FOR RURAL ROADS, THE WIDTHS WERE ADOPTED IN CONSULTATION WITH AND AGREEMENT OF COUNCIL. LANE WIDTH FOR NORMAL DESIGN DOMAIN (NDD) IS 3.5m. SHOULDER WIDTH FOR NDD IS 1.35m.
3	HORIZONTAL GEOMETRY	R180m, 7% SUPERELEVATION, 45m TRANSITION - SUITABLE FOR 70 km/h DESIGN SPEED. R1000m, ADVERSE CROSSFALL - SUITABLE FOR 70 km/h DESIGN SPEED FOR RURAL ROADS. R510m, ADVERSE CROSSFALL - SUITABLE FOR 70 km/h DESIGN SPEED, BASED ON ADOPTING HALF THE ABSOLUTE MAXIMUM SIDE FRICTION OF 0.25 FOR TRUCKS, THE ADOPTION OF RADIUS AND ADVERSE CROSSFALL FOR THIS CURVE WAS BASED ON MATCHING THE GEOMETRY OF THE EXISTING ROAD. THIS WAS DONE TO LIMIT THE EXTENT OF WORKS AND AVOID ENCRoACHMENT INTO THE CULTURAL HERITAGE ROCK ASSEMBLAGE.
4	VERTICAL GEOMETRY	R2200m SAG CURVE - SUITABLE FOR 70 km/h DESIGN SPEED BASED ON MINIMUM HEADLIGHT SIGHT DISTANCE. R6000m SAG CURVE - SUITABLE FOR 70 km/h DESIGN SPEED BASED ON MINIMUM HEADLIGHT SIGHT DISTANCE. K710m SAG CURVE - SUITABLE FOR 70 km/h DESIGN SPEED BASED ON DESIRABLE MINIMUM COMFORT CRITERIA. AS ABOVE WITH R520m HORIZONTAL CURVE, THIS WAS ADOPTED TO LIMIT THE EXTENT OF WORKS AND AVOID ENCRoACHMENT INTO THE CULTURAL HERITAGE ROCK ASSEMBLAGE.
5	ROADSIDE RISK ASSESSMENT	ROADSIDE RISK ASSESSMENT IS BASED ON THE FOLLOWING: - FLAT TERRAIN - RURAL ENVIRONMENT - 70 km/h OPERATING SPEED - 5.25m LANE WIDTHS - 700 AADT IN EACH DIRECTION, THE EXISTING AADT WAS 655 BASED ON 2020 TRAFFIC DATA FROM QLD GLOBE (QLD SPATIAL DATA). THE ADOPTED AADT WAS CALCULATED BASED ON 3% TRAFFIC GROWTH OVER 25 YEARS, 5 YEARS FROM 2020 + 20 YEAR DESIGN LIFE. - 1000m ROAD SEGMENT - R1000m R520m AND R150m RADI - BACKGROUND HAZARD ADOPTED IS TREE LINE EDGE WITH LATERAL DISTANCE OF 0.75m - ISOLATED HAZARDS IDENTIFIED - FILL SLOPES, 1 ON 1.5, 3m HIGH, PROPOSED EACH SIDE OF BRIDGE - FILL SLOPES, 1 ON 1.5, 3m HIGH, PROPOSED EACH SIDE OF ROAD FROM APPROX. CH 165 TO CH 179 (RHS) AND CH 210 (LHD), TO AVOID ENCRoACHMENT IN PROPERTY AND CULTURAL HERITAGE ROCK ASSEMBLAGE. - VERTICAL DROP, 4m HIGH, 2m WATER DEPTH, THIS IS FOR THE BRIDGE WITH CASTELLATED KERB, NO BRIDGE RAIL AND NO ROAD SAFETY BARRIER ON APPROACHES. - VERTICAL DROP, 320m HIGH, 120m WATER DEPTH, PROPOSED GROUTED ROCK RETAINING WALL FROM APPROX. CH 178 TO CH 195, TO AVOID ENCRoACHMENT IN CULTURAL HERITAGE ROCK ASSEMBLAGE AND MAINTAIN EXISTING GROUTED ROCK DRAIN. - VERTICAL DROP, 4m HIGH, 1m WATER DEPTH, EXISTING CULVERT AT CH 360 - VERTICAL DROP, 2m HIGH, 1m WATER DEPTH, EXISTING GROUTED ROCK DRAIN FROM CH 210 TO CH 265 - SIGNS, BREAKAWAY, AVERAGE 60m SPACING

DESIGN HAZARD NOTES:

- THE DETAILED DESIGN AND DOCUMENTATION OF THESE WORKS HAS BEEN INTERNALLY REVIEWED FOR DESIGN SAFETY IN ACCORDANCE WITH SECTION 22 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD.
- THIS REPORT SUMMARISES THIS INTERNAL REVIEW FOR DESIGN SAFETY.
- THIS REPORT IN NO WAY RELIEVES THE PRINCIPAL, CONTRACTOR OR ANY OTHER PARTY OF THEIR OBLIGATIONS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD, INCLUDING (BUT NOT LIMITED TO) CONSULTATION WITH THE DESIGNER UNDER SECTION 294 OF THE REGULATION, THE PREPARATION OF SATISFACTORY SAFETY WORK METHOD STATEMENTS, AND DUTIES OF CARE.
- IT IS A REQUIREMENT UNDER SECTION 296 OF THE WORK HEALTH AND SAFETY REGULATION 2011 QLD, THAT A COPY OF THIS REPORT BE PROVIDED TO THE CONTRACTOR BY THE ENTITY COMMISSIONING THE WORK SHOWN ON THESE DRAWINGS.
- PURSUANT TO THE WORK HEALTH AND SAFETY ACT 2011 THE DESIGN SAFETY REVIEW HAS SOUGHT TO IDENTIFY UNUSUAL OR ATYPICAL DESIGN FEATURES THAT MAY PRESENT ADDITIONAL HAZARDS OR RISKS DURING THE CONSTRUCTION, MAINTENANCE, DEMOLITION, DISPOSAL/RECYCLE AND OPERATIONAL PHASES AND THESE ARE DESCRIBED IN THE DESIGN HAZARD ASSESSMENT TABLES.

LIKELIHOOD TABLE

LEVEL	DESCRIPTION/QUANTIFICATION GUIDE
A - ALMOST CERTAIN	THE EVENT <u>IS</u> EXPECTED TO OCCUR IN MOST CIRCUMSTANCES.
B - LIKELY	THE EVENT <u>IS</u> EXPECTED TO OCCUR IN SOME CIRCUMSTANCES.
C - POSSIBLE	THE EVENT <u>MAY</u> OCCUR IN SOME CIRCUMSTANCES.
D - UNLIKELY	THE EVENT <u>IS NOT EXPECTED TO</u> OCCUR IN MOST CIRCUMSTANCES.
E - RARE	THE EVENT <u>MAY OCCUR</u> IN EXCEPTIONAL CIRCUMSTANCES.

HAZARD CONTROL TABLE

HIERARCHY OF CONTROLS		LEVEL OF CONTROL
1 - ELIMINATE	ELIMINATE THE HAZARD/RISK - RELOCATE THE DESIGN OR DESIGN ELEMENT AWAY FROM A HAZARD WHICH CONSTITUTES A RISK. REMOVE OR RELOCATE A HAZARD WHICH CONSTITUTES A RISK AWAY FROM THE DESIGN OR DESIGN ELEMENT.	MOST EFFECTIVE
2 - SUBSTITUTE	REPLACE A HAZARD WITH A HAZARD OF LESSER RISK	
3 - ISOLATE	ISOLATE THE PERSON(S) FROM THE HAZARD/RISK.	
4 - ENGINEERING CONTROLS	INCORPORATE ELEMENTS INTO THE DESIGN WHICH REDUCE THE RISK, BY REQUIRING PERSON(S) TO ACT AND BEHAVE IN A SAFER MANNER.	
5 - ADMINISTRATIVE CONTROLS	INCORPORATE FEATURES INTO THE DESIGN WHICH REDUCE THE RISK BY REQUIRING PERSON(S) TO THINK AND BEHAVE IN A SAFER MANNER. NOTE: HOW PERSON(S) RESPOND TO ADMINISTRATIVE CONTROLS IS NOT WITHIN THE DESIGNERS CONTROL.	
6 - PPE	PROTECT PERSON(S) BY USE OF PERSONAL PROTECTIVE EQUIPMENT NOTE: THE USE OF PPE IS NOT WITHIN THE DESIGNERS CONTROL.	LEAST EFFECTIVE

CONSEQUENCE TABLE

LEVEL	EVENT CONSEQUENCE/COST/TIME
6 - CATASTROPHIC	MULTIPLE FATALITIES POTENTIALLY IN MULTIPLE VEHICLES AND/OR ON THE GROUND, SIGNIFICANT SOCIETAL DISRUPTION AND/OR CONSEQUENTIAL DAMAGE.
5 - SEVERE	FATALITY OR MULTIPLE PERSONS ONSITE WITH LIFE THREATENING HEALTH EFFECTS OR INABILITY TO CONTINUE AND/OR SIGNIFICANT FINANCIAL OR TIME LOSS.
4 - MAJOR	EXTENSIVE INJURIES, OR ONSET OF SEVERE OR LIFE THREATENING HEALTH EFFECTS TO SINGLE PERSON ONSITE. MULTIPLE PERSONS WITH ONSET OF IRREVERSIBLE HEALTH EFFECTS PERMANENT INJURY TO PERSON ONSITE AND/OR MAJOR FINANCIAL OR TIME LOSS.
3 - MEDIUM	MEDICAL TREATMENT REQUIRED, IRREVERSIBLE HEALTH EFFECT TO A SINGLE PERSON, MULTIPLE PERSONS ONSITE WITH REVERSIBLE HEALTH EFFECTS AND/OR HIGH FINANCIAL OR TIME LOSS.
2 - MINOR	FIRST AID, SINGLE OR MULTIPLE INJURIES AMONGST PERSONS ONSITE, SINGLE PERSON ONSITE WITH MODERATE SHORT TERM REVERSIBLE HEALTH EFFECTS AND/OR MEDIUM FINANCIAL OR TIME LOSS.
1 - INSIGNIFICANT	NO INJURIES, OVER EXPOSURE TO A SINGLE PERSON ONSITE, BUT NO REPORTED HEALTH EFFECTS AND/OR LOW FINANCIAL OR TIME LOSS.

RISK ANALYSIS MATRIX

		CONSEQUENCE					
		1 - INSIGNIFICANT	2 - MINOR	3 - MEDIUM	4 - MAJOR	5 - SEVERE	6 - CATASTROPHIC
LIKELIHOOD	A - ALMOST CERTAIN	Moderate	High	High	Extreme	Extreme	Extreme
	B - LIKELY	Low	Moderate	High	Extreme	Extreme	Extreme
	C - POSSIBLE	Low	Moderate	High	Extreme	Extreme	Extreme
	D - UNLIKELY	Low	Low	Moderate	Moderate	High	Extreme
	E - RARE	Low	Low	Low	Low	Moderate	High

RISK EVALUATION

RISK LEVEL	ACTION REQUIRED
EXTREME	UNACCEPTABLE RISK. RE-DESIGN REQUIRED TO REDUCE RISK LEVEL.
HIGH	UNACCEPTABLE RISK. REVIEW OF DESIGN AND/OR FURTHER MITIGATIONS REQUIRED.
Moderate	RISK MAY BE ACCEPTABLE, ADDRESSED BY REASONABLE IMPLEMENTATION OF THE RELEVANT DESIGN STANDARDS/GUIDELINES AND OTHER ADMINISTRATIVE CONTROLS. DESIGNER TO CONSIDER IMPLEMENTATION OF FURTHER REASONABLY PRACTICABLE MITIGATION MEASURES IF AVAILABLE/APPROPRIATE. ROAD TO BE MONITORED WITH A VIEW TO CONFIRMING SAFE PERFORMANCE.
LOW	ACCEPTABLE, ADDRESSED BY REASONABLE IMPLEMENTATION OF THE RELEVANT DESIGN STANDARDS/GUIDELINES AND OTHER ADMINISTRATIVE CONTROLS. DESIGNER TO CONSIDER IMPLEMENTATION OF FURTHER REASONABLY PRACTICABLE MITIGATION MEASURES IF AVAILABLE/APPROPRIATE.

PRELIMINARY - NOT FOR CONSTRUCTION

15/06/2024	2	DOUGLAS SHIRE COUNCIL	FOR CONSTRUCTION	DATE	FOR
15/06/2024	1	PRELIMINARY - NOT FOR CONSTRUCTION	FOR CONSTRUCTION	DATE	FOR
15/06/2024	1	PRELIMINARY - NOT FOR CONSTRUCTION	FOR CONSTRUCTION	DATE	FOR



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SCALE
SHEET

CUSTOMER
PROJECT
LOCATION
SHEET TITLE

DOUGLAS SHIRE COUNCIL

NOAH CREEK BRIDGE AND APPROACHES
NOAH CREEK, CAPE TRIBULATION
SAFETY IN DESIGN REPORT - SHEET 1 OF 2

JOB CODE

P001388

SHEET NUMBER

C002

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DESIGN HAZARD RISK ASSESSMENT																	
ITEM NO.	HAZARD	EVENT	INITIAL RISK			MITIGATIONS/CONTROL MEASURES	EXECUTION OF MITIGATIONS/CONTROL MEASURES	RESIDUAL RISK			CONSIDERATION OF ADDITIONAL REASONABLY PRACTICABLE MEASURES	EXECUTION OF MITIGATIONS/CONTROL MEASURES	RESIDUAL RISK				
			CONSEQUENCE	LIKELIHOOD	RISK RATING			LEVEL OF CONTROL	CONSEQUENCE	LIKELIHOOD			RISK RATING	LEVEL OF CONTROL	CONSEQUENCE	LIKELIHOOD	RISK RATING
1	STRAIGHT ROAD SEGMENT, R1000, AND R1510: ROADSIDE HAZARDS: - TREE LINED EDGE, BACKGROUND HAZARD - FILL SLOPES, 1 ON 1.5, 5m HIGH, EACH SIDE OF BRIDGE, ISOLATED HAZARDS - FILL SLOPES, 1 ON 1.5, 3m HIGH, PROPOSED EACH SIDE OF ROAD FROM CH 165 TO CH 179 (RHS) AND CH 210 (LHS), ISOLATED HAZARDS - VERTICAL DROP, 4m HIGH, 2m WATER DEPTH, BRIDGE, ISOLATED HAZARD - VERTICAL DROP, 2m HIGH, 1m WATER DEPTH, PROPOSED GROUTED ROCK RETAINING WALL FROM CH 178 TO CH 195, ISOLATED HAZARD - VERTICAL DROP, 4m HIGH, 1m WATER DEPTH, EXISTING CULVERT AT CH 260, ISOLATED HAZARD - VERTICAL DROP, 0m HIGH, 1m WATER DEPTH, EXISTING GROUTED ROCK DRAIN FROM CH 210 TO CH 265, ISOLATED HAZARD - SIGNS, BREAKAWAY, AVERAGE 60m SPACING, ISOLATED HAZARDS	INCREASE IN SEVERITY / CONSEQUENCE OF SINGLE VEHICLE RUN-OFF ROAD CRASHES DUE TO ROADSIDE HAZARDS.	3	E	LOW	IN CONSULTATION WITH COUNCIL, THE FOLLOWING DESIGN IS PROPOSED: - CASTELLATED KERB ON THE NEW BRIDGE. BRIDGE RAIL TO BE OMITTED (USE OF CASTELLATED KERB ADOPTED ON INSTRUCTION FROM COUNCIL) - BARRIER KERB ON BRIDGE APPROACHES IN LIEU OF ROAD SAFETY BARRIER (USE OF BARRIER KERB ADOPTED ON INSTRUCTION FROM COUNCIL) - 1 ON 1.5 SLOPE GROUTED ROCK ABUTMENT PROTECTION - 1 ON 1.5 FILL BATTER SLOPE ON LHS AND RHS OF NORTHERN APPROACH TO MAINTAIN ROADWORKS INSIDE ROAD RESERVE - 500mm HIGH GROUTED ROCK RETAINING WALL ON LHS OF NORTHERN APPROACH TO MAINTAIN EXISTING GROUTED ROCK DRAIN AND AVOID ENCRUSTMENT INTO CULTURAL HERITAGE AREA - ALERT POSTS INSTALLED ON SHOULDERS AND AT REGULAR INTERVAL (8m SPACING OR SIMILAR) ON BRIDGE AND APPROACH TO GUIDE ROAD USERS TO THE ROAD EDGE BASED ON THE ABOVE AND IN ACCORDANCE WITH AUSTRALROADS GUIDE TO ROAD DESIGN PART 6, A ROADSIDE RISK ASSESSMENT OF ALL ROADSIDE HAZARDS WAS UNDERTAKEN, BASED ON THE HAZARDS IDENTIFIED THE RESULTING COMBINED RISK SCORE IS LESS THAN 2.0 FOR HAZARDS ON THIS ROAD SEGMENT. COUNCIL ARE TO CONFIRM THAT A COMBINED RISK SCORE OF 1.0 OR LESS IS ACCEPTABLE FOR HAZARDS ON THIS ROAD SEGMENT. AN ASSESSMENT OF ROAD CRASHES WAS UNDERTAKEN, BASED ON THE DATA FROM QLD GLOBE NO CRASHES HAVE BEEN IDENTIFIED ON THIS ROAD SEGMENT FOR THE LAST 20 YEARS. BASED ON THE CRASH DATA AND COUNCIL'S ACCEPTANCE OF A RISK SCORE OF 1.0 NO FURTHER TREATMENT OF THE HAZARDS ARE REQUIRED.	DESIGNER / COUNCIL	4	3	E	LOW	THE FOLLOWING OPTIONS TO BE CONSIDERED: - PROVIDE CLEARING BUFFER SO TREE LINE IS LOCATED FURTHER FROM THE ROADSIDE - INSTALL BRIDGE RAIL AND BARRIER ANY OF ABOVE OPTIONS WILL REQUIRE WORKS OUTSIDE THE ROAD RESERVE AND WOULD REQUIRE LAND RESUMPTION AND RESULT IN ADVERSE IMPACTS TO THE CULTURAL HERITAGE AREA AND WYTHA.	COUNCIL / WYTHA	2	2	E	LOW
2	ROAD GEOMETRY: R1600m HORIZONTAL CURVE ROADSIDE HAZARDS: - TREE LINED EDGE, BACKGROUND HAZARD - SIGNS, BREAKAWAY, AVERAGE 60m SPACING, ISOLATED HAZARDS	INCREASE IN SEVERITY / CONSEQUENCE AND LIKELIHOOD OF SINGLE VEHICLE RUN-OFF ROAD CRASHES DUE TO TIGHT HORIZONTAL CURVE AND ROADSIDE HAZARDS.	3	D	MODERATE	IN ACCORDANCE WITH AUSTRALROADS GUIDE TO ROAD DESIGN PART 6, A ROADSIDE RISK ASSESSMENT OF ALL ROADSIDE HAZARDS WAS UNDERTAKEN, BASED ON THE HORIZONTAL CURVE AND HAZARDS IDENTIFIED THE RESULTING COMBINED RISK SCORE IS LESS THAN 2.0 FOR THIS ROAD SEGMENT. THE HIGHER RISK SCORE FOR THIS ROAD SEGMENT IS A RESULT OF THE HORIZONTAL CURVE. COUNCIL ARE TO CONFIRM THAT A COMBINED RISK SCORE OF 2.0 OR LESS IS ACCEPTABLE FOR HAZARDS ON THIS ROAD SEGMENT. AN ASSESSMENT OF ROAD CRASHES WAS UNDERTAKEN, BASED ON THE DATA FROM QLD GLOBE NO CRASHES HAVE BEEN IDENTIFIED ON THIS ROAD SEGMENT FOR THE LAST 20 YEARS. MITIGATION OR TREATMENT OF THIS CURVE IS LIMITED AS EXTENT OF WORKS IS FOR UPGRADE OF THE EXISTING BRIDGE AND THE CURVE MATCHES AN EXISTING CURVE AND IS ONLY A SHORT SECTION OF THE TOTAL LENGTH OF THE EXISTING CURVE. IT SHOULD BE NOTED THAT SEVERAL CURVES OF SIMILAR FEATURES WITH SMALL RADII ARE LOCATED ON CAPE TRIBULATION ROAD AND ANY MITIGATION WOULD HAVE ADVERSE IMPACTS ON THE WET TROPICS WORLD HERITAGE AREA (WYTHA). BASED ON THE CRASH DATA, ADVERSE IMPACTS TO WYTHA, AND COUNCIL'S ACCEPTANCE OF A RISK SCORE OF 2.0 NO FURTHER TREATMENT OF THE ROAD GEOMETRY OR HAZARDS ARE REQUIRED AND THE PROPOSED DESIGN IS TO BE ADOPTED.	DESIGNER / COUNCIL	4	3	D	MODERATE	THE FOLLOWING OPTIONS TO BE CONSIDERED: - INCREASE RADII - PROVIDE CLEARING BUFFER SO TREE LINE IS LOCATED FURTHER FROM THE ROADSIDE - INSTALL BARRIER ON THE OUTSIDE OF THE CURVE ANY OF ABOVE OPTIONS WILL LIKELY REQUIRE WORKS OUTSIDE THE ROAD RESERVE AND WOULD REQUIRE LAND RESUMPTION AND RESULT IN ADVERSE IMPACTS TO WYTHA.	COUNCIL / WYTHA	2	3	E	LOW
3	NATIVE WILDLIFE HABITAT INCLUDING	POTENTIAL FOR VEHICLES TO COLLIDE WITH NATIVE WILDLIFE	3	D	MODERATE	EXISTING POSTED SPEED IS 60 km/h. AN ASSESSMENT OF ROAD CRASHES WAS UNDERTAKEN, BASED ON THE DATA FROM QLD GLOBE NO CRASHES HAVE BEEN IDENTIFIED ON THIS ROAD SEGMENT FOR THE LAST 20 YEARS. BASED ON THE CRASH DATA AND LOW POSTED SPEED OF 60 km/h NO FURTHER TREATMENT IS PROPOSED.	DESIGNER / COUNCIL	3	3	D	MODERATE	THE FOLLOWING OPTIONS TO BE CONSIDERED: - PROVIDE CLEARING BUFFER SO TREE LINE IS LOCATED FURTHER FROM THE ROADSIDE - REDUCE SPEED FURTHER - INSTALL CASSOWARY WARNING SIGNAGE - INSTALL BUNBLE STRIPS ON APPROACH TO SPEED REDUCTION / WARNING SIGNAGE - INSTALL TRAFFIC ACTIVATED VMS SIGNAGE ANY OF ABOVE OPTIONS WILL LIKELY REQUIRE WORKS OUTSIDE THE PROJECT SCOPE AND REQUIRE ADDITIONAL SURVEY. THE CLEARING BUFFER WILL RESULT IN ADVERSE IMPACTS TO WYTHA.	COUNCIL / WYTHA	4	3	E	LOW
4	ROAD GEOMETRY: LANE AND SHOULDER WIDTHS	NARROW LANE AND SHOULDER WIDTHS INCREASING LIKELIHOOD OF MULTI-VEHICLE HEAD ON CRASHES	4	D	MODERATE	EXISTING POSTED SPEED IS 60 km/h. RURAL ROAD EDD LANE WIDTHS ARE DUE TO THE ASSUMPTION THAT A RURAL ROAD IS 100 km/h. URBAN EDD LANE WIDTHS CAN BE 3.0m DUE TO LOWER SPEEDS, AS THE EXISTING POSTED SPEED FOR THIS ROAD IS 60 km/h. THE DESIGNER CONSIDERS THE ADOPTION OF 3.25m LANE WIDTHS AS ACCEPTABLE. IT SHOULD BE NOTED THAT THE ADOPTED FORMATION WIDTH OF THE DESIGN IS WIDER THAN THE EXISTING FORMATION WIDTH. AN ASSESSMENT OF ROAD CRASHES WAS UNDERTAKEN, BASED ON THE DATA FROM QLD GLOBE NO CRASHES HAVE BEEN IDENTIFIED ON THIS ROAD SEGMENT FOR THE LAST 20 YEARS. BASED ON THE CRASH DATA AND LOW POSTED SPEED OF 60 km/h NO FURTHER TREATMENT OF THE FORMATION WIDTH IS PROPOSED.	DESIGNER / COUNCIL	4	4	D	MODERATE	ADOPT NDD LANE AND SHOULDER WIDTHS. THIS WILL LIKELY REQUIRE WORKS OUTSIDE THE ROAD RESERVE, LAND RESUMPTION AND RESULT IN ADVERSE IMPACTS TO WYTHA.	COUNCIL / WYTHA	4	E	LOW	

PRELIMINARY - NOT FOR CONSTRUCTION				 PREMISE 84 DENHAM STREET PO BOX 1110 TOWNSVILLE, QLD 4810 PH: (07) 4772 0666 WEB: www.premise.com.au		DESIGNED S.BROGAN CHECKED S.BROGAN PROJECT MANAGER R.PERKINS PROJECT SUPERVISOR R.PERKINS R.PERKINS RPEQ 2319	NOAH CLIENT DOUGLAS SHIRE COUNCIL PROJECT NOAH CREEK BRIDGE AND APPROACHES LOCATION NOAH CREEK, CAPE TRIBULATION SHEET TITLE SAFETY IN DESIGN REPORT - SHEET 2 OF 2	JOB CODE P001388 SHEET NUMBER C003 REV 2
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GENERAL NOTES

1. ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL NEW WORK AND MATERIALS SHALL COMPLY WITH THE PROJECT DRAWINGS, PROJECT SPECIFICATION AND CURRENT RELEVANT DTRM STANDARD DRAWINGS.
3. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
4. THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATION AND COMMUNICATION OF CONSTRUCTION ACTIVITIES WITH THE ADJOINING LAND OWNERS, THE PRINCIPAL AND DTRM.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
7. PROOF ROLLING NOMINATED SHALL BE CARRIED OUT USING A SINGLE AXLE HIGHWAY TRUCK WITH A REAR AXLE LOAD NOT LESS THAN 8 TONNES AND TYRES INFLATED TO 550 kPa OR APPROVED EQUIVALENT. EQUIPMENT LABOUR AND LOADING REQUIRED FOR PROOF ROLLING IS TO BE PROVIDED BY THE CONTRACTOR.
8. THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
9. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE PRINCIPAL OR THEIR NOMINATED SUPERINTENDENT.

PRE-CONSTRUCTION & APPROVALS

1. A DIAL BEFORE YOU DIG DESKTOP SERVICES ASSESSMENT HAS BEEN CARRIED OUT AS PART OF THE DESIGN. NO AFFECTED SERVICES WERE IDENTIFIED. HOWEVER, SERVICE IDENTIFICATION IS TO BE CARRIED OUT PRIOR TO START OF CONSTRUCTION TO ENSURE THAT NO AFFECTED SERVICES EXIST.
2. NO LOCATING OR POT-HOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE PRINCIPAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING WITH THE APPROPRIATE AUTHORITY FOR LOCATING EXISTING SERVICES AND FOR ANY MODIFICATIONS TO EXISTING SERVICES REQUIRED AS A RESULT OF THE WORKS.
4. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING SERVICES FROM DAMAGE.
5. ANY WORKS DAMAGED AS A RESULT OF CONSTRUCTION ARE TO BE REINSTATED TO RELEVANT AUTHORITY'S REQUIREMENTS AT THE CONTRACTOR'S COST.
6. FINISHED SURFACE LEVELS ARE TO BE GRADED UNIFORMLY BETWEEN LEVELS INDICATED ON THE DRAWINGS.

WORKPLACE HEALTH AND SAFETY

1. THE CONTRACTOR SHALL BE THE PRINCIPAL CONTRACTOR AS DESIGNATED BY THE WORK HEALTH AND SAFETY ACT (2011).
2. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A WORKPLACE HEALTH AND SAFETY PLAN AS REQUIRED BY THE WORK HEALTH AND SAFETY ACT (2011).

SURVEY AND SETOUT NOTES

1. SURVEY ORIGIN USED:
 - 1.1. COORDINATES ORIGIN PM191505 E 534708.901 N 8221364.186, LEVEL ORIGIN PM191665 RL 1.65m
 2. HORIZONTAL DATUM IS GDA 2020 MGA ZONE 54.
 3. VERTICAL DATUM IS AUSTRALIAN HEIGHT DATUM DERIVED.
 4. FOR SURVEY FILE REFER TO: A0101511-1-ALL-DETAIL-COMBINED-WITH-CULTURAL-HERITAGE-AREA.DWG.
2. SETOUT SHALL BE MADE BY DIGITAL ENGINEERING DATA AND CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY A LICENSED SURVEYOR.
3. DESIGN BASED ON DETAILED SURVEY PROVIDED BY THE PRINCIPAL. ALL EXISTING LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.

EARTHWORKS NOTES

1. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
2. ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1' GEO-TECHNICAL CONTROL IN ACCORDANCE WITH AS5798.
3. EXCESS CUT TO BE STOCKPILED AT A SITE APPROVED BY THE PRINCIPAL.

TESTING

1. THE PRINCIPAL MAY ORDER ADDITIONAL TESTS. REFER TO MITS04 FOR STANDARDS OF COMPACTATION AND MATERIAL STANDARDS.

EARTHWORKS TESTING

1. COMPACTION TESTS:

LOCATION	AREA PER TEST
FINISHED LEVEL OR ROAD SUBGRADE (IN CUT OR FILL)	REFER DTRM MITS04 SPECIFICATIONS
LOWEST TWO LEVELS OF EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT (PER LAYER)	
PREPARED NATURAL GROUND UNDER EMBANKMENT	

2. QUALITY TESTS - IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY DTRM'S SPECIFICATION OR AS DIRECTED BY THE CONTRACTOR'S GEO-TECHNICAL TESTING AUTHORITY.
3. SUBGRADE TESTS - THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE PRINCIPAL WHO SHALL RECOMMEND CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOIL TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

DUST

1. THE CONTRACTOR TO PROVIDE A WATER TRUCK AS REQUIRED TO ELIMINATE THE DUST PROBLEM CAUSED BY SITE TRAFFIC.

FILL MANAGEMENT

1. ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH DTRM'S MITS04 SPECIFICATION.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH DTRM'S MITS04 SPECIFICATION.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS, AND STOCKPILED FOR LATER USE.
5. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND REPLACED USING A COMPACTED SELECT FILL.
6. DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES, ETC. SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
7. ANY STRUCTURAL CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +5% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH ROAD PAVEMENTS.
8. ANY STRUCTURAL, FREE DRAINING, SAND FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK. FLOODED, IF NECESSARY, AND COMPACTED TO A MINIMUM DRY DENSITY INDEX OF 70% AS PER (AS1289 5.1.1) USING A STATIC SMOOTH ROLLER DRUM NOT LESS THAN 10 TONNE BY STATIC WEIGHT.
9. THE PLACEMENT OF ALL STRUCTURAL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A CONTROLLED MANNER, IN ACCORDANCE DTRM'S MITS04 SPECIFICATION.
10. THE PLACEMENT OF FILL TO BE EXECUTED SO AS TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
11. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE DTRM'S MITS04 SPECIFICATION.
12. ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS.

ROADWORKS NOTES

1. PAVEMENT THICKNESSES NOMINATED ON THESE DRAWINGS ARE PROVISIONAL ONLY AND MAY BE VARIED BY THE PRINCIPAL SUBJECT TO SITE VERIFICATION. PAVEMENT SUBGRADES ARE TO BE INITIALLY CONSTRUCTED TO THE UNDERSIDE OF THE NOMINATED LOWER SUBBASE COURSE.
2. REPAIR ANY DAMAGE TO EXISTING ROADWAY (INCLUDING REMOVAL OF CONCRETE SLURRY, ETC. FROM ROADS AND TABLE DRAINS) THAT MAY OCCUR DURING ANY WORKS CARRIED OUT.
3. TRAFFIC ROUTE TO REMAIN OPEN AND TRAFFICABLE TO LOCAL TRAFFIC DURING CONSTRUCTION.

PAVEMENT MARKING NOTES

1. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS), TECHNICAL SPECIFICATION MITS04 (QUEENSLAND DEPARTMENT OF MAIN ROADS).
2. EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
3. ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
4. ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
5. EXISTING CONFLICTING LINE MARKINGS ARE TO BE PERMANENTLY REMOVED BY METHODS APPROVED BY THE ENGINEER.
6. REFLECTIVE RAISED PAVEMENT MARKERS (RRPMs) SHALL BE PLACED 25mm TO 50mm FROM THE PAINTED LINEMARKING AND ORIENTATED SO THAT FULL REFLECTIVE EFFECT IS ACHIEVED BY AIMING THE REFLECTIVE FACE IN THE DIRECTION OF APPROACHING TRAFFIC.
7. GENERALLY THE NORMAL SPACING BETWEEN RRPMs IS TO BE 11.0m U.N.O.
8. ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.

SIGNAGE AND DELINEATION NOTES

1. ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD SERIES OF GUIDELINES.
2. LOCATION OF SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. CARE AND CONSIDERATION IS TO BE GIVEN TO ON SITE CONDITIONS TO AVOID ANY VISUAL OBSTRUCTION OF THE SIGN ALONG THE INTENDED COURSE OF APPROACHING TRAFFIC. EXACT LOCATION OF ALL SIGNS SHALL BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
3. SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY 5° FACING OUT FROM RIGHT ANGLES TO, IN THE DIRECTION OF THE TRAFFIC THEY ARE INTENDED TO SERVE.
4. SIGNAGE SHALL BE IN ACCORDANCE WITH:
 - MITS04 ROAD FURNITURE
 - AS1743 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES;
 - AS1743 ROAD SIGNS SPECIFICATION.
5. ROAD EDGE GUIDE POSTS ARE TO BE INSTALLED AS PER MUTCD, PART 2. HEIGHT OF ROAD EDGE GUIDE POSTS TO BE 1000mm ABOVE LEVEL OF SHOULDER OF THE ROAD EDGE. REFER DTRM STANDARD DRAWING 1356 FOR DETAILS.

FENCING NOTES

1. ALL FENCING REINSTATEMENT TO BE COMPLETED IN CONSULTATION BETWEEN THE PRINCIPAL, THE CONTRACTOR AND CURRENT LAND OWNER.
2. FENCING TO BE CONSTRUCTED AS PER DTRM STD DRG 1601, UNLESS ADVISED OTHERWISE BY THE PRINCIPAL.

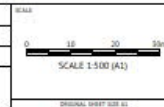
PRELIMINARY - NOT FOR CONSTRUCTION

REVISIONS	2	ISSUED FOR TENDER	DATE	BY
REVISIONS	1	PRELIMINARY - NOT FOR CONSTRUCTION	DATE	BY
DATE	BY	APPROVED	DATE	BY



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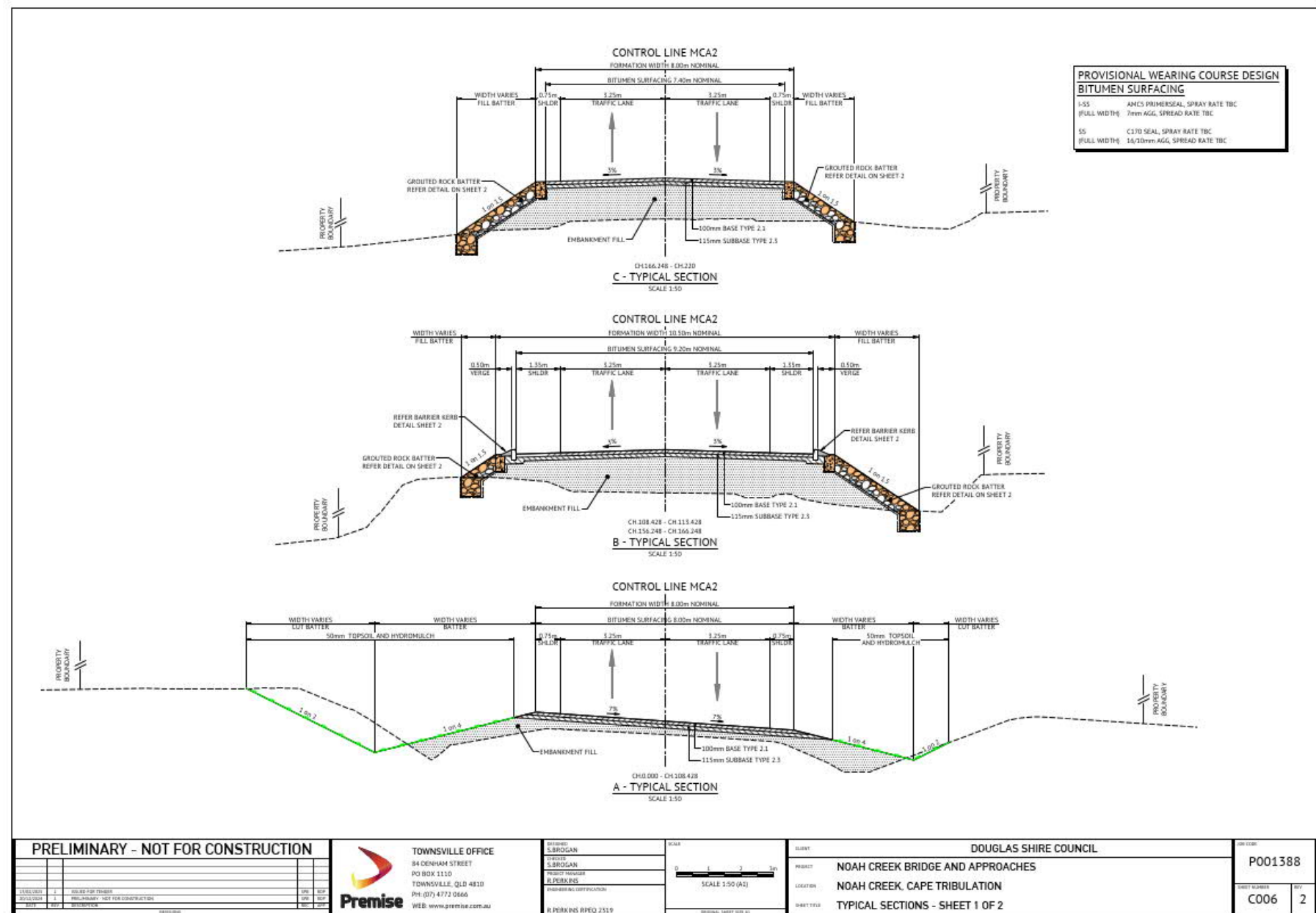
DESIGNED:
SUBROGAN
CHECKED:
SUBROGAN
APPROVED:
R PERKINS
APPROVED:
R PERKINS
R PERKINS RP02 2510



SCALE

CLIENT: DOUGLAS SHIRE COUNCIL
PROJECT: NOAH CREEK BRIDGE AND APPROACHES
LOCATION: NOAH CREEK, CAPE TRIBULATION
SHEET TITLE: GENERAL NOTES

JOB CODE: P001388
SHEET NUMBER: C004
REV: 2



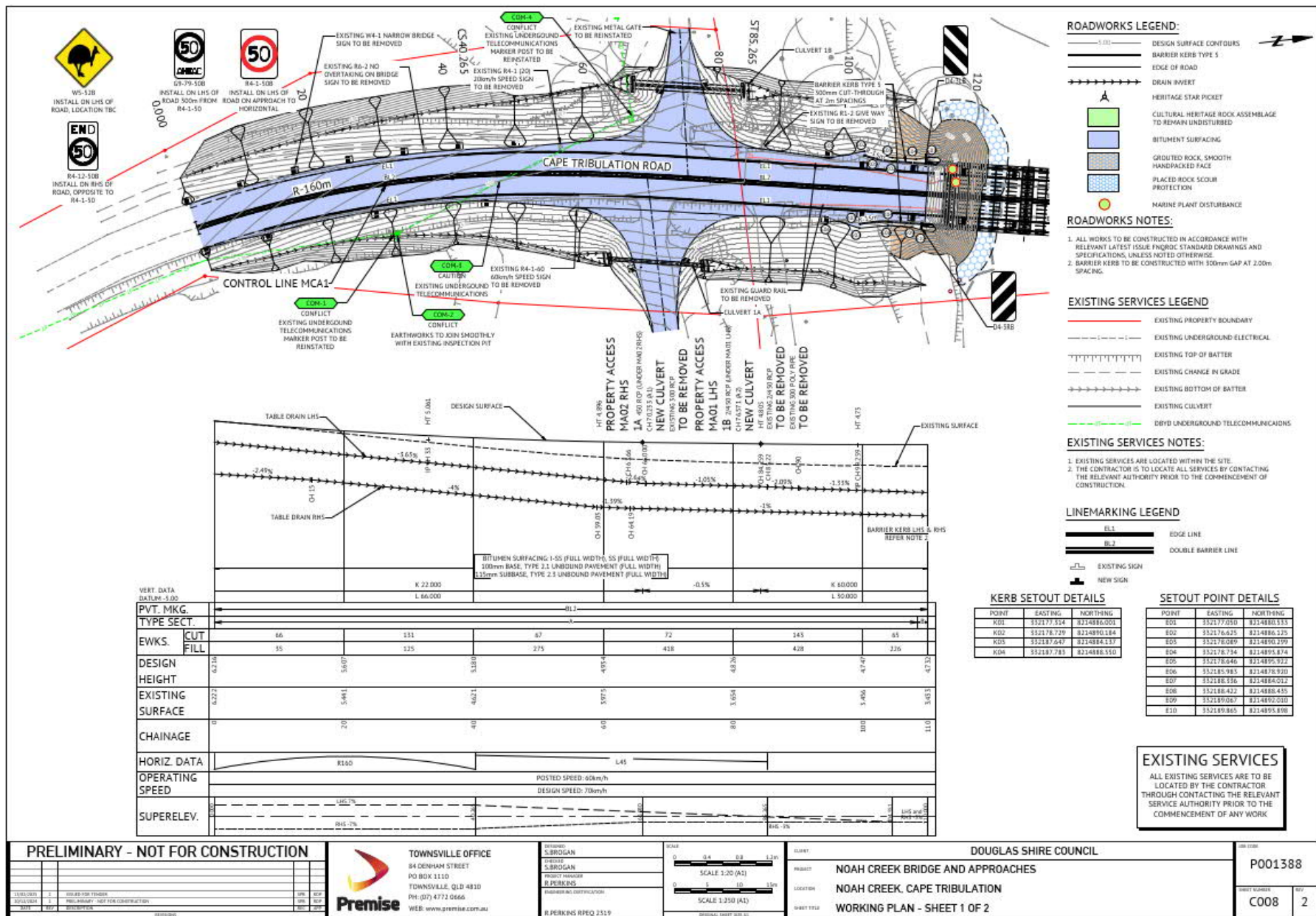
CH 105.428 - CH 115.428 LHS & RHS
CH 156.248 - CH 166.248 LHS & RHS
BARRIER KERB DETAIL
SCALE 1:20

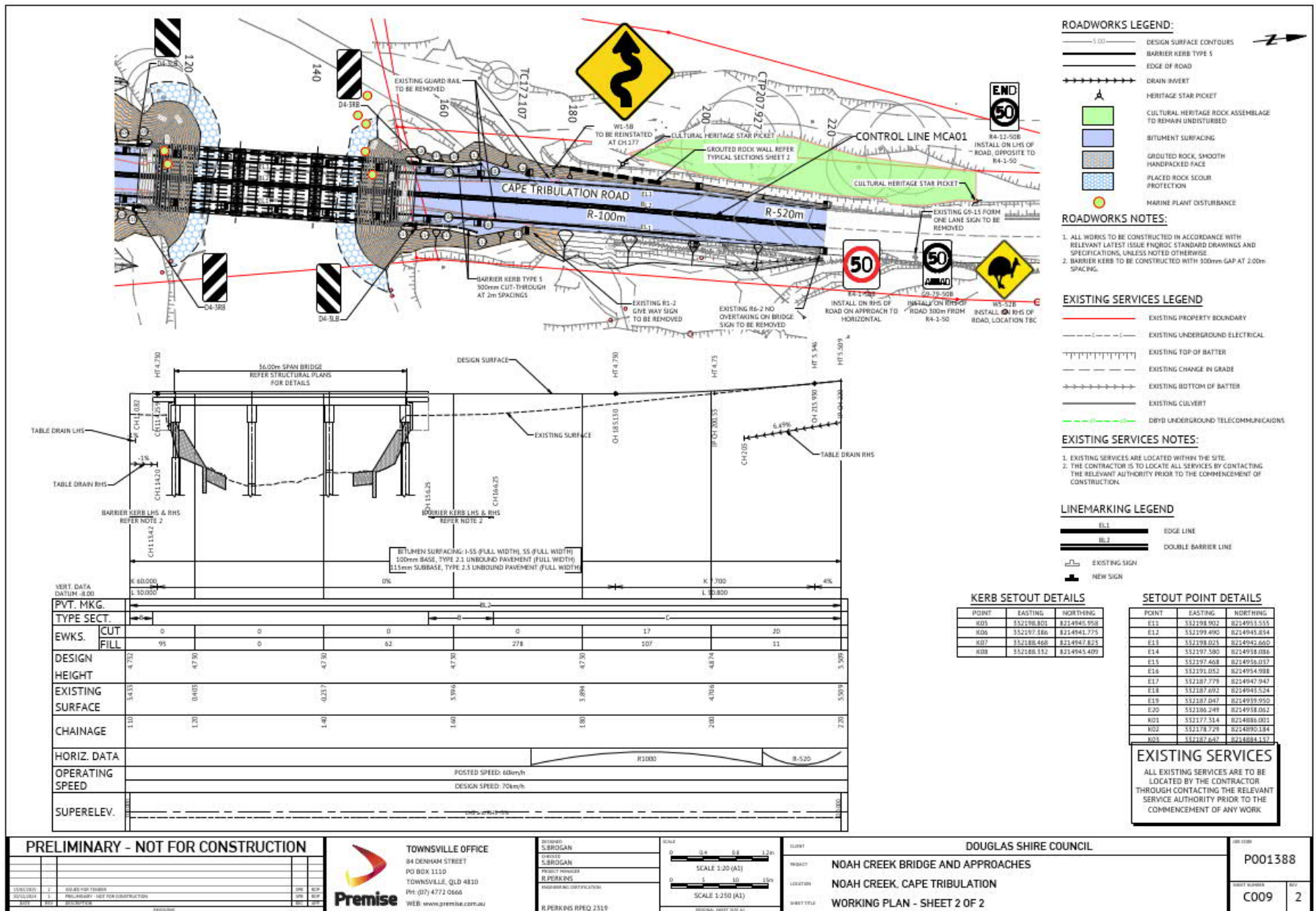
GROUTED ROCK BATTER DETAIL
SCALE 1:20

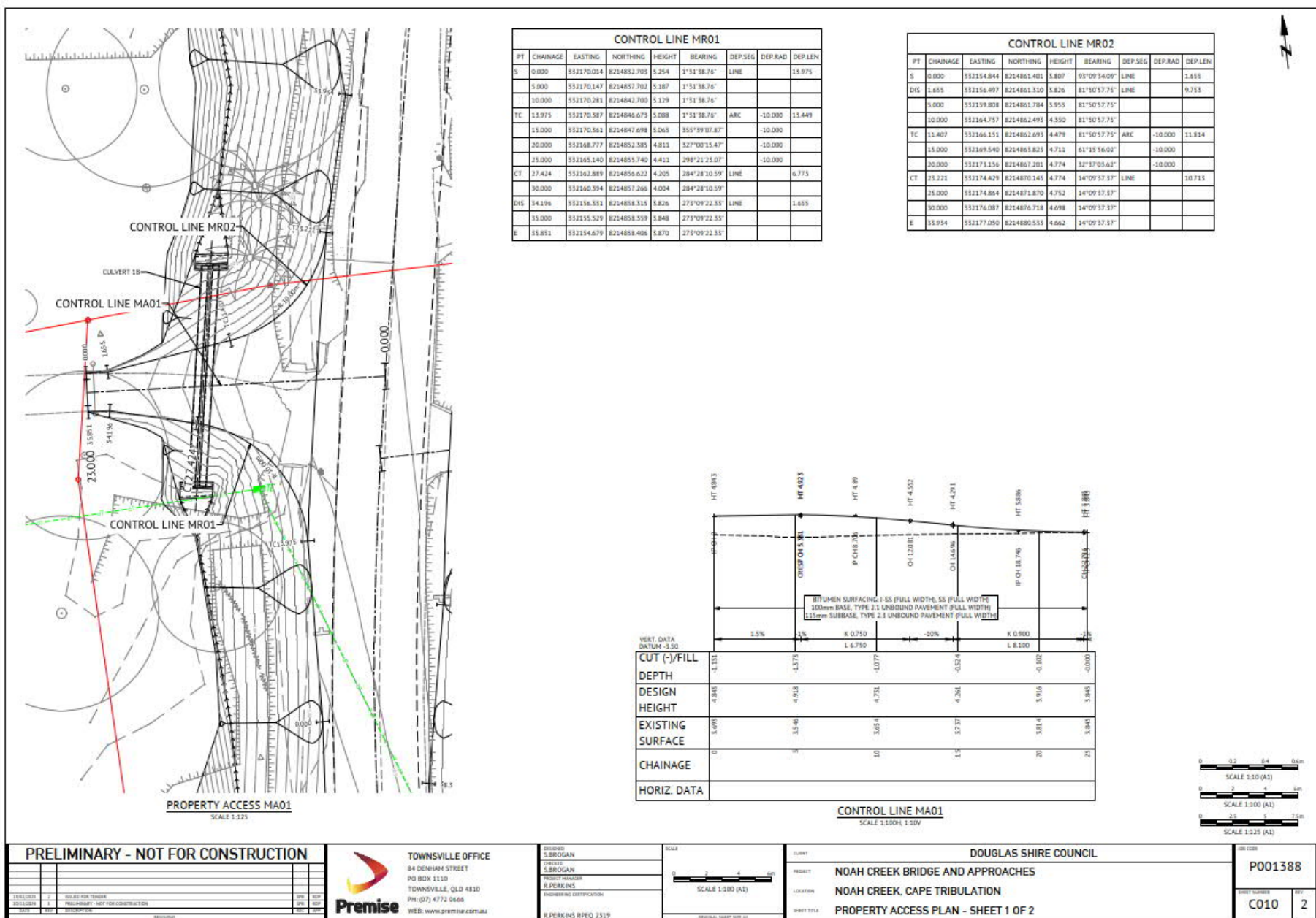
C - GROUTED ROCK BATTER AND WALL - LHS

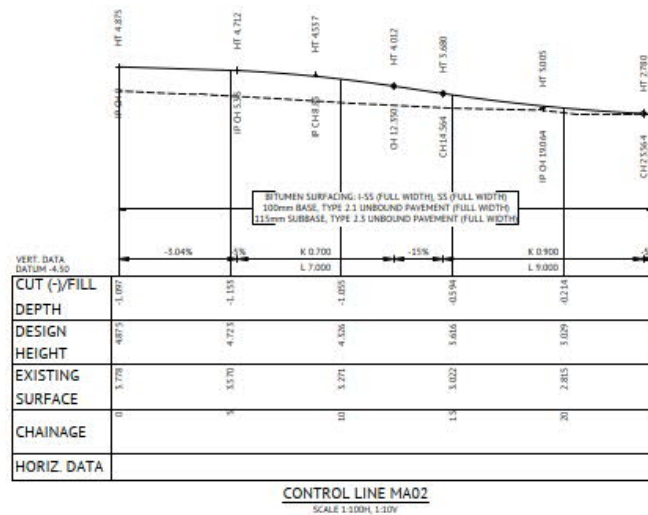
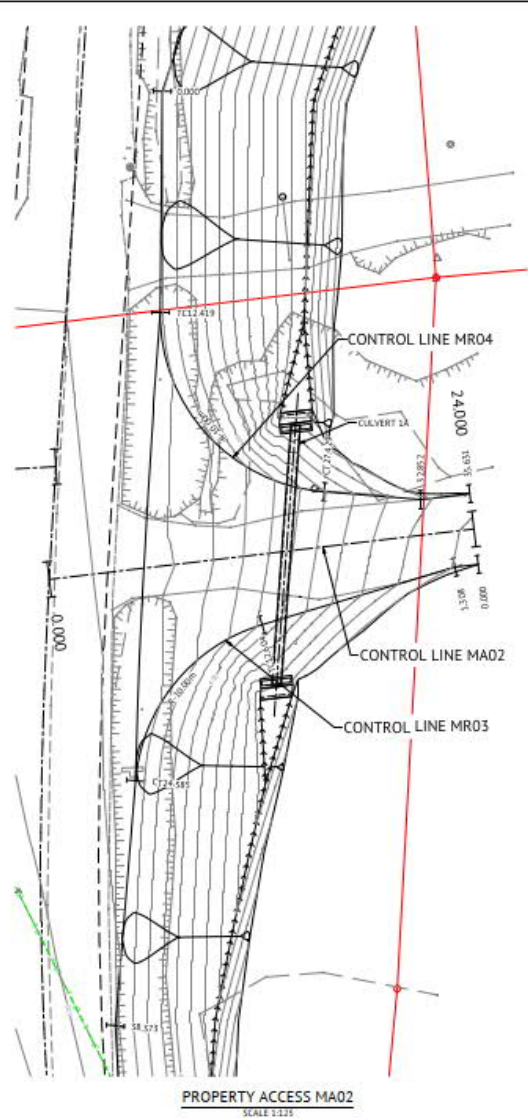
CH.178.748 - CH.105
C - 1 ON 4 BATTER - IN FILL - RHS
SCALE 1:30

CH.205 - CH.220
C - V-DRAIN - IN CUT - RHS
SCALE 1:20









CONTROL LINE MR04							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP. SEG.	DEP. RAD.
S	0.000	352185.985	8214878.921	4.616	186°51'49.18"	LINE	17.419
	5.000	352185.505	8214873.957	4.625	186°51'49.18"		
	10.000	352184.788	8214868.995	4.634	186°51'49.18"		
TC	12.419	352184.499	8214866.591	4.640	186°51'49.18"	ARC	-10.000
	35.000	352184.525	8214864.027	4.651	177°04'24.16"		-10.000
	30.000	352186.590	8214859.458	4.455	143°35'32.75"		-10.000
	25.000	352190.256	8214856.327	3.947	154°46'39.55"		-10.000
CT	27.429	352192.545	8214855.575	3.634	100°51'31.12"	LINE	5.425
	30.000	352195.068	8214855.091	3.504	100°51'31.12"		
DIS	32.852	352197.869	8214854.554	3.047	89°52'58.25"	LINE	2.779
	35.000	352200.017	8214854.571	2.915	89°52'58.25"		
E	35.431	352200.648	8214854.576	2.881	89°52'58.25"		

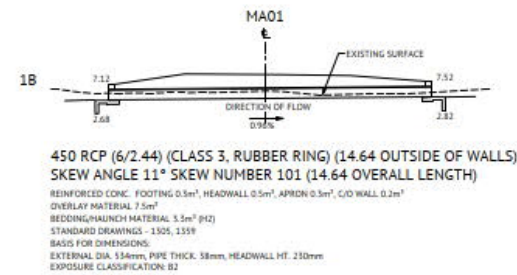
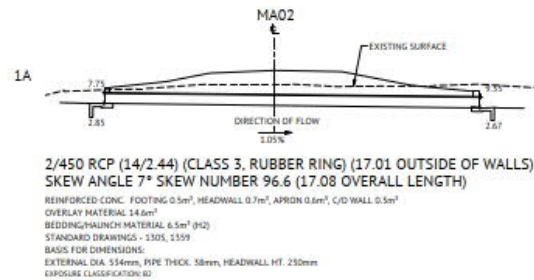
CONTROL LINE MR03							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP. SEG.	DEP. RAD.
S	0.000	352200.680	8214850.576	2.725	289°52'58.25"	LINE	1.308
DIS	1.308	352199.572	8214850.565	2.790	259°45'14.86"	LINE	11.296
	5.000	352195.739	8214849.904	3.051	259°45'14.86"		
	10.000	352190.820	8214849.009	3.597	259°45'14.86"		
TC	12.604	352188.258	8214848.543	3.960	259°45'14.86"	ARC	-10.000
	15.000	352185.975	8214847.857	4.242	245°57'35.82"		-10.000
	20.000	352182.095	8214844.766	4.605	217°18'45.42"		-10.000
CT	24.585	352180.234	8214840.620	4.727	191°02'57.56"	LINE	15.788
	25.000	352180.154	8214840.213	4.728	191°02'57.56"		
	30.000	352179.196	8214835.305	4.753	191°02'57.56"		
	35.000	352178.238	8214830.598	4.805	191°02'57.56"		
E	38.573	352177.592	8214827.088	4.851	191°02'57.56"		



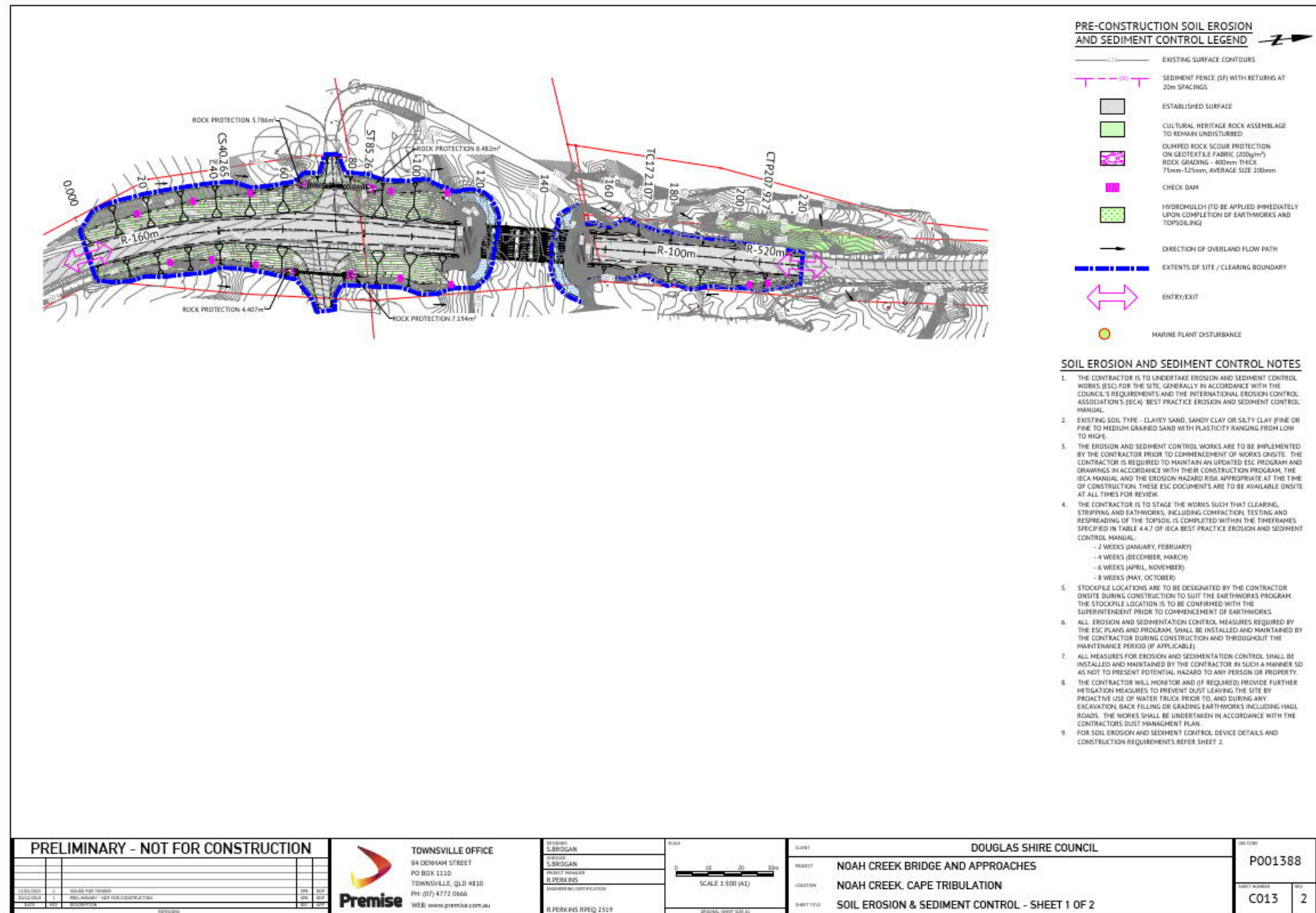
PRELIMINARY - NOT FOR CONSTRUCTION		PREMISE 84 DENHAM STREET PO BOX 1150 TOWNSVILLE, QLD 4810 PH: (07) 4772 0666 WEB: www.premise.com.au	DESIGNED: S. BROGAN CHECKED: S. BROGAN PROJECT MANAGER: R. PERKINS ENGINEERING CONSULTANT: R. PERKINS RPEQ 2519	TITLE: NOAH CREEK BRIDGE AND APPROACHES LOCATION: NOAH CREEK, CAPE TRIBULATION SHEET TITLE: PROPERTY ACCESS PLAN - SHEET 2 OF 2	DOUGLAS SHIRE COUNCIL PROJECT: NOAH CREEK BRIDGE AND APPROACHES LOCATION: NOAH CREEK, CAPE TRIBULATION SHEET TITLE: PROPERTY ACCESS PLAN - SHEET 2 OF 2	SHEET NUMBER: C011 SHEET TOTAL: 2
CLIENT: TOWNSVILLE OFFICE PROJECT: NOAH CREEK BRIDGE AND APPROACHES SHEET: 2 OF 2	DATE: 10/10/2020 DRAWN: S. BROGAN CHECKED: S. BROGAN PROJECT MANAGER: R. PERKINS ENGINEERING CONSULTANT: R. PERKINS RPEQ 2519		ORIGINAL SHEET: 10/10/2020	SHEET NUMBER: C011 SHEET TOTAL: 2		

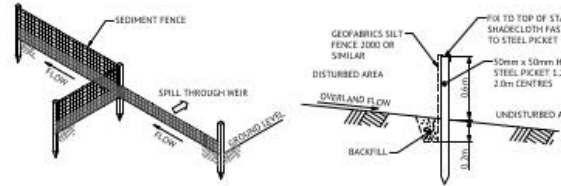
DRAINAGE SCHEDULE

CULVERT							BASE SLAB / FOOTING			HEADWALL		APRON		CUTOFF WALL	BLINDING	EXCAVATION	BACKFILL	
ALIGNMENT	CHANGAGE (m)	SKEW NO.	ID	STRUCTURE	PIPE CLASS	Exp CLASS	INSTALLATION TYPE	CONCRETE (m³)	REBAR (kg)	FABRIC TYPE (m²)	CONCRETE (m³)	REBAR (kg)	CONCRETE (m³)	REBAR (kg)	CONCRETE (m³)	OVERLAY (m³)	FOUNDATION (m³)	
MA01	14.05	96.8	1A	2450 RCP (142.44)	3	B2	NEW	0.5	13.8	2.0	SL30	8.7	13.1	0.8	61.1	0.3	40.2	14.8
MA02	13.4	101.0	1A	450 RCP (82.44)	3	B2	NEW	0.3	10.4	1.4	SL30	0.5	8.9	0.3	38.2	0.2	8.5	7.5
TOTAL QUANTITIES								0.8	24.2			9.2	22.0	0.9	99.3	0.5	48.7	22.1
TOTAL FABRIC (AREA / TYPE)								3.4 / SL30										



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CHECKED BY S.BROGAN	PROJECT MANAGER K.PERKINS	SHEET NUMBER C012	SHEET 2						
DESIGNED BY S.BROGAN	ENGINEERING CONTRIBUTION K.PERKINS RPEQ 2519								
DATE 10/01/2020	REVISIONS								

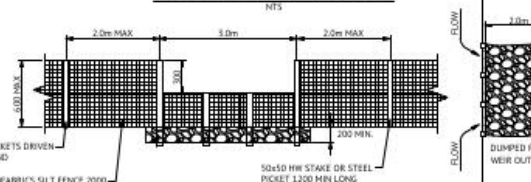




SEDIMENT FENCE RETURN

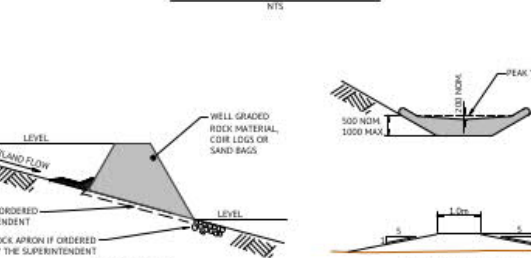
TYPICAL SECTION

SEDIMENT FENCE DETAIL



TYPICAL ELEVATION

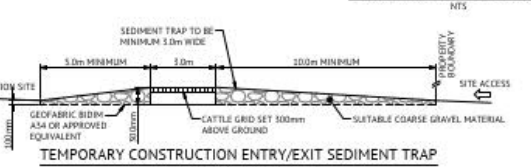
SPILL THROUGH WEIR



CHECK DAM

TYPICAL SECTION

TEMPORARY DIVERSION MOUND



TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP

LOCATION TO BE DETERMINED ON SITE.
ALTERNATE: 75mm ROCK RUMBLE PAD 20x3m
NTS

SEQUENCE OF ACTIONS TO BE UNDERTAKEN BY CONTRACTOR

1. NOTIFICATION	- THE SUPERINTENDENT IS TO BE GIVEN NOTIFICATION FOR EACH OF THE FOLLOWING POINTS: - CONTRACTORS UPDATED ESC PROGRAM AND DRAWINGS IN ACCORDANCE WITH THEIR CONSTRUCTION SCHEDULE. - AFTER THE AREA TO BE CLEARED HAS BEEN MARKED ONSITE AND STOCKPILE LOCATIONS NOMINATED. - ONCE THE LOCATION OF ANY DIVERSION DRAINS, SEDIMENT FENCES AND SEDIMENT BASINS HAVE BEEN DETERMINED ONSITE. - AFTER THE PRE-CONSTRUCTION EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. SITE POSSESSION	- ERECT THE BARRIER FENCING TO BUFFER AREAS AND DRAINAGE RESERVES TO ENSURE EXISTING OR UNDISTURBED LAND IS NOT DISTURBED/ENCROACHED DURING CONSTRUCTION. - INSTALLATION OF CONSTRUCTION EXIT TO ENSURE NO SOIL LEAVES THE SITE DURING CONSTRUCTION. - CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILT FENCING, CHECK DAMS AND DIVERSION BANKS IN ACCORDANCE WITH ESC PLAN. - CONSTRUCT TEMPORARY DIVERSION MOUNDS TO DIVERT 'CLEAN' WATER AROUND CONSTRUCTION SITE.
3. CONSTRUCTION	- ALL ESC MEASURES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE INSTALLATION SEQUENCE IN THE ESC PROGRAM AS DEVELOPED TO SUIT THE CONSTRUCTION PROGRAM AND EROSION RISK. - TOPSOIL IS TO BE STRIPPED AND STOCKPILED IN LOCATIONS NOMINATED BY THE CONTRACTOR AND AGREED WITH THE SUPERINTENDENT. A SEDIMENT FENCE IS TO BE CONSTRUCTED ON THE DOWNHILL SIDE OF THE STOCKPILE TO CONTAIN SEDIMENT RUNOFF FROM THE STOCKPILE/S. A DIVERSION DRAIN IS TO BE INSTALLED UPSTREAM OF THE STOCKPILE/S (IF REQUIRED). - AT ALL TIMES THE CONTRACTOR SHALL ENSURE THAT DUST RESULTING FROM THE PROPOSED WORKS, INCLUDING EXCAVATION, BACKFILLING, GRADING AND STOCKPILES IS KEPT TO AN ABSOLUTE MINIMUM IN ACCORDANCE WITH THEIR DUST MANAGEMENT PLAN. - ESC DEVICES REQUIRED TO BE MODIFIED/REMOVED TO ALLOW CONSTRUCTION ACCESS ARE TO BE REINSTATED AT THE COMPLETION OF THE WORK DURING PERIODS OF LOW RISK OF EROSION AND AT THE END OF EACH WORKDAY IF THERE IS A MODERATE/HIGH RISK OF EROSION. - MOVEMENT OF CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE LIMITED TO THE AREA OF WORK, THE HAUL ROAD AND EXISTING ROADS. - DISTURBED AREAS ARE TO BE STABILISED IN TIMELY MANNER AND IN ACCORDANCE WITH ESC PLANS AND THE ICA MANUAL. BEST PRACTICE EROSION AND SEDIMENT CONTROL. DISTURBED AREAS ARE TO BE RESTORED PROGRESSIVELY AS THE WORK IS FINISHED AND BARRICADED OFF FROM CONSTRUCTION ACTIVITIES TO ALLOW REVEGETATION TO BE ESTABLISHED. - ALL BATTERS SHALL BE TOPDRESSED, GRASS SEED, AND WATERED IMMEDIATELY UPON COMPLETION OF EARTHWORKS TO STABILISE THE BATTER. - ADDITIONAL CONTROL DEVICES MAY BE REQUIRED BY THE SUPERINTENDENT.
4. MAINTENANCE	- CHECK THE INTEGRITY OF THE ESC DEVICES DAILY DURING THE MONTHS OF NOVEMBER TO MARCH AND WEEKLY AT OTHER TIMES OF THE YEAR. - CHECK THE INTEGRITY OF THE ESC DEVICES PRIOR TO IMPENDING OR BOON PREDICTED RAINFALL EVENTS. - CHECK THE INTEGRITY OF THE ESC DEVICES IMMEDIATELY FOLLOWING EACH RAINFALL EVENT. - UNDERTAKE THE REQUIRED MAINTENANCE TO THE ESC DEVICES AFTER EACH RAINFALL EVENT (IF REQUIRED). - PROMOTE ADDITIONAL ESC DEVICES, IF THE IMPLEMENTED ESC PLAN FAILS TO CONTAIN THE SEDIMENT ONSITE.
5. GENERAL	- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE ESC PLANS AND PROGRAM, THE CONSTRUCTION AND MAINTENANCE OF ESC DEVICES, FROM THE POSSESSION OF THE SITE UNTIL THE SITE IS ACCEPTED BY THE LOCAL AUTHORITY "OFF MAINTENANCE" OR UNTIL SOIL STABILISATION HAS OCCURRED IN ACCORDANCE WITH THE FIVE-STEP REGIONAL DEVELOPMENT MANUAL. - AMENDED OR AN ALTERNATIVE ESC PROGRAM AND PLANS ARE TO BE REVIEWED AND APPROVED BY THE SUPERINTENDENT PRIOR TO IMPLEMENTATION.

TYPICAL ESC DEVICES	CONSTRUCTION REQUIREMENTS	MAINTENANCE REQUIREMENTS
CONSTRUCTION EXITS USED TO PREVENT THE TRACKING OF SEDIMENT FROM TYRES OF VEHICLES ONTO PUBLIC ROAD.	- REFER TO DETAIL ON THIS DRAWING. - SURFACE WATER FLOWING TO THE CONSTRUCTION EXIT SEDIMENT TRAP MUST BE PIPED UNDER THE TRAP OR A PERIMETER BANK SHOULD BE CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE TRAP. - WASH-OFF TO BE DIRECTED TO A SEDIMENT TRAP OR BUFFER ZONE. - ONLY PROVIDE ONE CONSTRUCTION EXIT FOR THE SITE UNLESS SITE ACCESS OR TOPOGRAPHY REQUIRE MORE. - ENSURE THAT CONTAMINATED VEHICLES CANNOT BYPASS IT WHEN EXITING THE SITE.	- REMOVAL OF SEDIMENT AND/OR ADDING EXTRA AGGREGATE. - REMOVE SEDIMENT TRANSPORTED ONTO ROADWAYS AND APPLY CORRECTIVE MEASURE TO ENSURE NO RE-OCCURRENCE. - EXTEND THE LENGTH OF THE GRAVEL PAD IF EXCESSIVE SEDIMENT IS STILL BEING TRANSPORTED OFF THE SITE.
CHECK DAMS USED TO INTERCEPT AND REDUCE THE VELOCITY OF CONCENTRATED FLOW.	- REFER TO DETAIL ON THIS DRAWING. - PROVIDE DOWNSTREAM OF CONCENTRATED OUTLETS AND AT 50m MAX. ALONG OPEN CHANNELS AND AROUND FIELD INLETS TO ALLOW SEDIMENT TO SETTLE OUT PRIOR TO ENTERING STORMWATER PIPES. - SHOULD BE SHAPED SUCH THAT WATER FLOW OVER THE CENTRE OF THE ROCK CHECK DAM TO PREVENT WATER FUNNELING AROUND THE DAM AND ERODING THE EDGE OF THE DAM. - ACCESS WILL BE REQUIRED FOR MAINTENANCE AND THE CHECK DAMS ARE TO BE REMOVED ONCE SUITABLE STABILISATION OF THE DISTURBED CATCHMENT IS ACHIEVED.	- EXCESSIVE SEDIMENT SHOULD BE REMOVED FROM UPSTREAM OF THE CHECK DAMS AFTER RAINFALL EVENTS. - THE UPSTREAM GRAVEL FILTER LAYER SHOULD BE RE-ESTABLISHED WHEN SEDIMENT BEGINS TO FLOW THROUGH THE STRUCTURE OR WHEN PERMEABILITY IS EXCESSIVELY REDUCED.
SEDIMENT FENCES USED TO TEMPORARILY REDUCE THE VELOCITY OF CONTAMINATED SHEET FLOW AND TO INDUCE GRAVITATIONAL SETTLEMENT OF THE SEDIMENT.	- REFER TO DETAIL ON THIS DRAWING. - ALL SEDIMENT FENCES TO BE INSTALLED PARALLEL TO CONTOURS. - REGULAR TURN-BACKS AND A FINE WIRE MESH BACKING ARE REQUIRED TO PREVENT THE FURTHER CONCENTRATION OF FLOW. - THE FENCE SHOULD BE SEGMENTED INTO A SERIES OF L SHAPED FENCES TO AVOID THE CONCENTRATION OF FLOW ALONG THE FENCE. - SEDIMENT FENCE RETURNS TO BE PROVIDED AT 20m INTERVALS MAX.	- REGULAR INSPECTIONS AND MAINTENANCE ARE REQUIRED TO REPAIR DAMAGE CAUSED BY ON-SITE VEHICLES OR OTHER CONSTRUCTION ACTIVITIES. - INSPECT AFTER EACH RAINFALL EVENT THAT RESULTS IN STORMWATER RUN-OFF. - REMOVE EXCESSIVE SEDIMENT DEPOSITS AFTER RAINFALL EVENTS. - INVESTIGATE THE SOURCE OF EXCESSIVE SEDIMENT, REVIEW ESC PLAN AND APPLY REMEDIAL ACTIONS AS NECESSARY.
DIVERSION DRAIN/PERIMETER BANKS USED TO DIVERT CLEAN WATER AROUND DISTURBED AREAS OR USED WITHIN DISTURBED AREAS TO DIRECT SURFACE WATER TO A SEDIMENT TRAP.	- REFER TO DETAIL ON THIS DRAWING. - MOUNDS/DRAINS MUST HAVE A STABLE OUTLET - PROVIDE ROCK PROTECTION IF NECESSARY. - MOUNDS/DRAINS DIVERTING CLEAN WATER SHOULD BE SEED OR MULCHED IF THEIR WORKING LIFE IS EXPECTED TO EXCEED 90 DAYS.	- REGULARLY INSPECT MOUNDS/DRAINS AND REPAIR ANY SLUMPS, WHEEL TRACK DAMAGE OR LOSS OF FREEBOARD. - SEDIMENT SHOULD BE REMOVED TO AVOID PONDING.

PRELIMINARY - NOT FOR CONSTRUCTION

DESIGNED	1	NOAH CREEK BRIDGE	DATE	2020
DRAWN	1	NOAH CREEK BRIDGE	DATE	2020
CHECKED	1	NOAH CREEK BRIDGE	DATE	2020
APPROVED	1	NOAH CREEK BRIDGE	DATE	2020

PREMISE

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PO BOX 1110
TOWNSVILLE, QLD 4810
Ph: (07) 4772 0666
WEB: www.premise.com.au

DESIGNED	S.BROGAN
DRAWN	S.BROGAN
CHECKED	R. PERKINS
APPROVED	R. PERKINS

SCALE	
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DATE	
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CLIENT	
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PROJECT	
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LOCATION	
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SHEET TITLE	
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DOUGLAS SHIRE COUNCIL
NOAH CREEK BRIDGE AND APPROACHES
NOAH CREEK, CAPE TRIBULATION
SOIL EROSION & SEDIMENT CONTROL - SHEET 2 OF 2

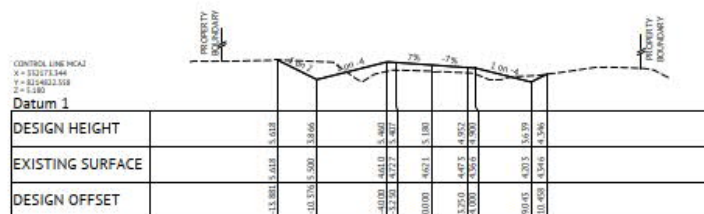
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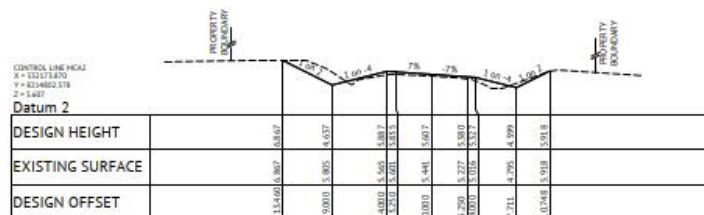
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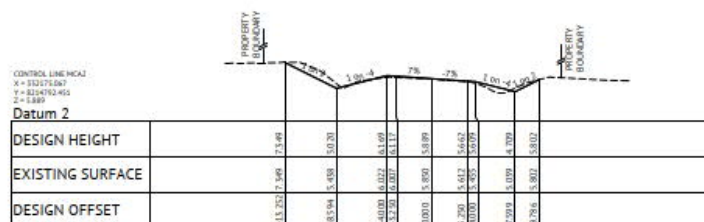
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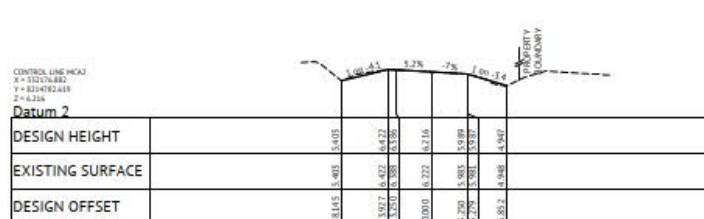
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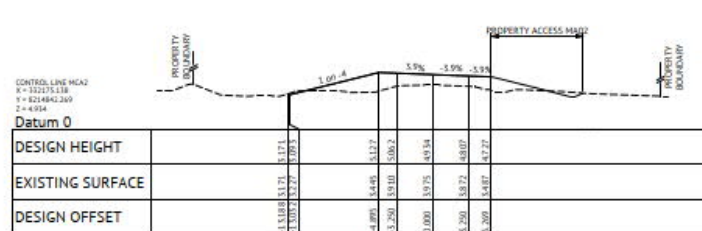
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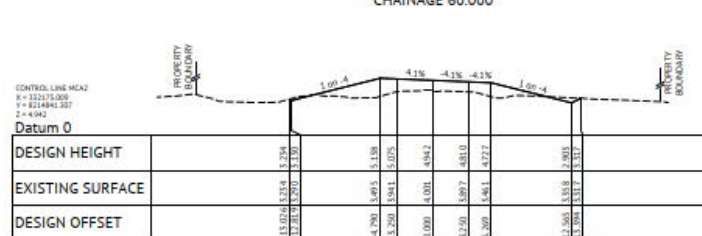
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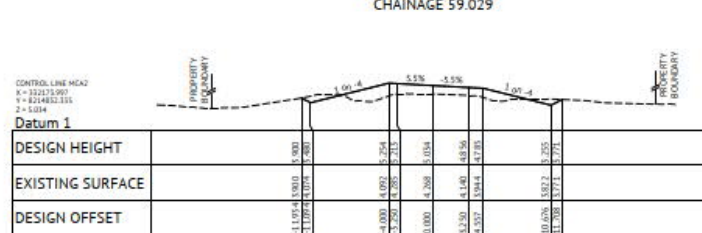
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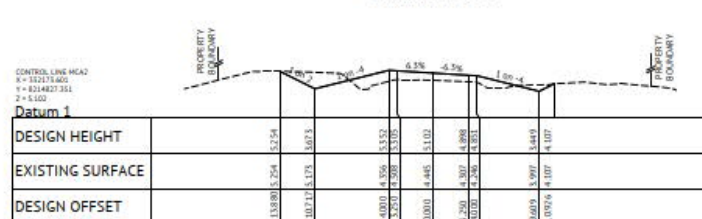
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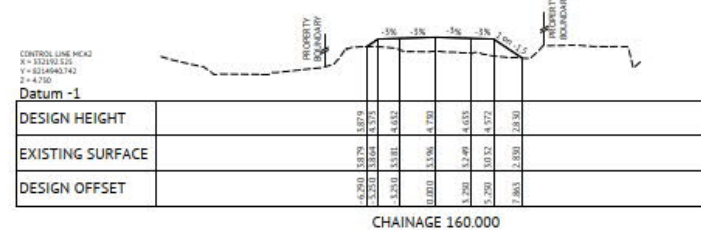
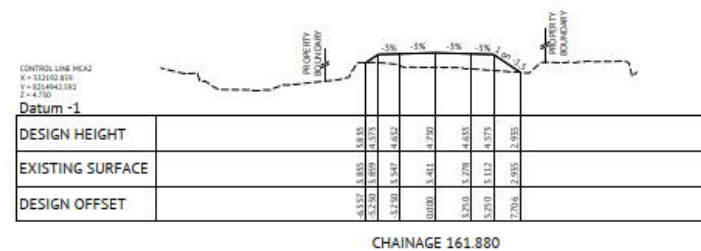
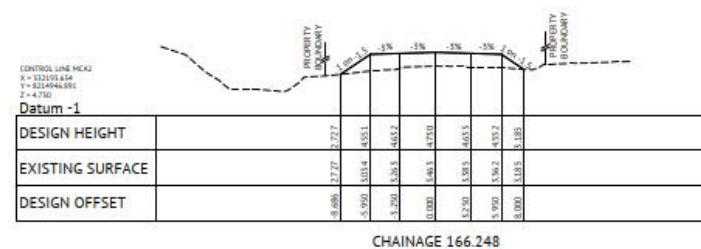
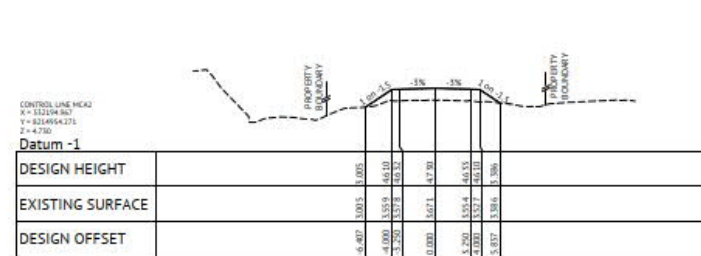
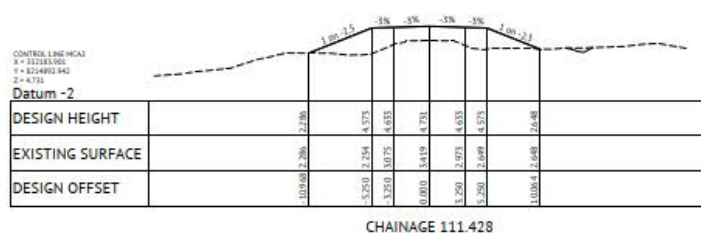
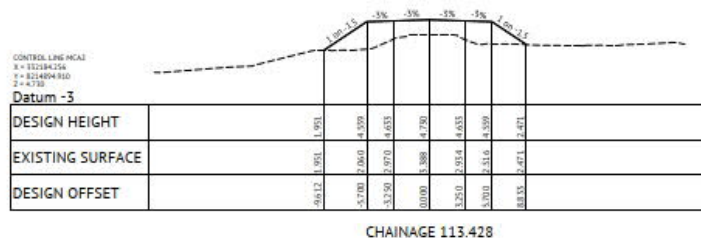
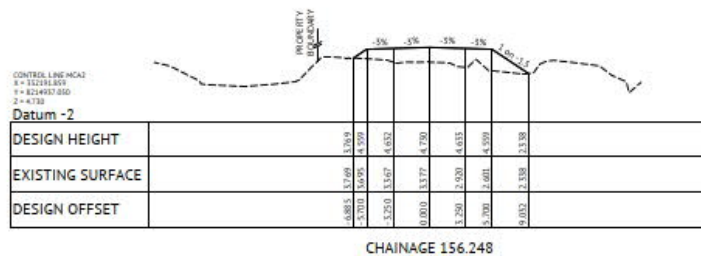
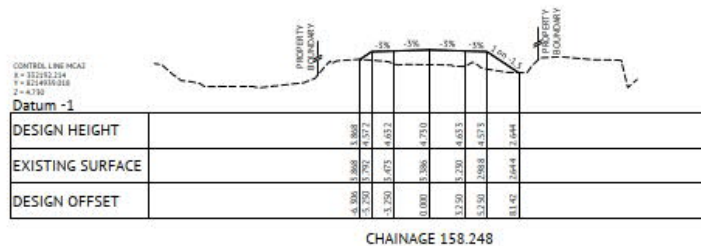


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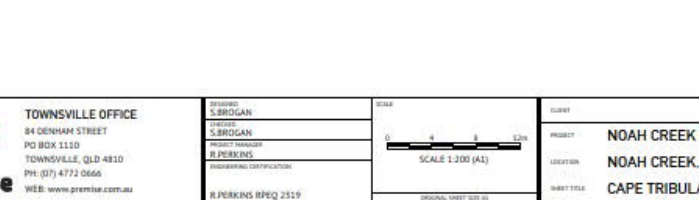
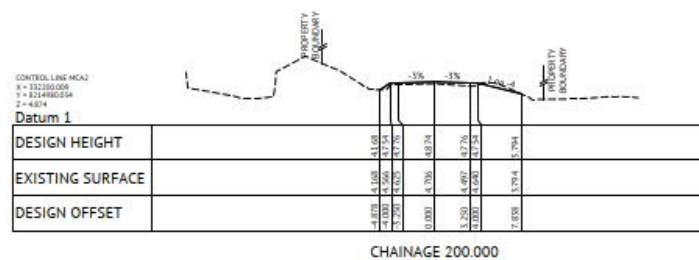


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PRELIMINARY - NOT FOR CONSTRUCTION		 TOWNSVILLE OFFICE 84 DENHAM STREET PO BOX 1110 TOWNSVILLE, QLD 4810 PH: (07) 4772 0666 WEB: www.premise.com.au	DESIGNED: S. BROGAN CHECKED: S. BROGAN PROJECT MANAGER: S. PERKINS PROVISIONAL CERTIFICATION: S. PERKINS RPEQ 2519	NOAH CREEK BRIDGE AND APPROACHES NOAH CREEK, CAPE TRIBULATION CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 1 OF 4	DOUGLAS SHIRE COUNCIL	PROJECT: NOAH CREEK BRIDGE AND APPROACHES LOCATION: NOAH CREEK, CAPE TRIBULATION SHEET TITLE: CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 1 OF 4	PROJECT NUMBER: P001388 SHEET NUMBER: C015 REV: 2
13/05/2020 2 2020 FOR TENDER 13/05/2020 1 13/05/2020 FOR CONSTRUCTION 13/05/2020 1 13/05/2020 FOR CONSTRUCTION							



PRELIMINARY - NOT FOR CONSTRUCTION				 TOWNSVILLE OFFICE 84 DENHAM STREET PO BOX 1150 TOWNSVILLE, QLD 4810 PH: (07) 4772 0666 WEB: www.premise.com.au		PROJECT: S.BROGAN DRAWN: S.BROGAN PROJECT MANAGER: R.PERKINS ENGINEERING CERTIFICATION: R.PERKINS RPEQ 2519		SCALE: 1:200 (A1) 		CLIENT: DOUGLAS SHIRE COUNCIL PROJECT: NOAH CREEK BRIDGE AND APPROACHES LOCATION: NOAH CREEK, CAPE TRIBULATION SHEET TITLE: CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 3 OF 4		COW CODE: P001388 SHEET NUMBER: C017 REV: 2	
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PRELIMINARY - NOT FOR CONSTRUCTION						 TOWNSVILLE OFFICE 84 DENHAM STREET PO BOX 1110 TOWNSVILLE QLD 4810 PH: (07) 4772 0666 WEB: www.premise.co.au		DESIGNED S.BROGAN CHECKED S.BROGAN PROJECT MANAGER R.PERKINS ENGINEERING CERTIFICATION R.PERKINS RPEQ 2519 SCALE  SCALE 1:200 (A1) ORIGINAL SHEET SIZE A3		CURVE DOUGLAS SHIRE COUNCIL REV CODE PROJECT NOAH CREEK BRIDGE AND APPROACHES P001388 LOCATION NOAH CREEK, CAPE TRIBULATION SHEET TITLE CAPE TRIBULATION ROAD CROSS SECTIONS - SHEET 4 OF 4 SHEET NUMBER C018 BYP 2			
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Changed Concurrence Agency Conditions

RE6-N

**DELIVERING
FOR QUEENSLAND**



**Queensland
Government**

Department of
**State Development,
Infrastructure and Planning**

SARA reference: 2506-46415 SPD
Council reference: OP2020_3516/1
Applicant reference: 402031

24 September 2025

Douglas Shire Council
C/- RPS AAP Consulting Pty Ltd
PO Box 1949
CAIRNS QLD 4870
stacey.devaney@rpsconsulting.com

Attention: Stacey Devaney

Dear Sir/Madam

SARA change application decision— Noah Creek Bridge Replacement

(Given under section 83 of the *Planning Act 2016*)

I refer to your application made on 19 June 2025 to the State Assessment and Referral Agency (SARA) requesting a change to an existing referral agency response issued on 15 September 2020 for the following:

- Development Permit for Operational Work (bridge replacement)

SARA has assessed your application to make a change to the existing referral agency response.

Decision for change application

Date of decision:	24 September 2025
SARA reference:	2506-46415 SPD
Decision details:	Make the change and amend existing conditions
Changes agreed to:	Amend conditions 1, 2, 7, 12, 14, 16, 17, 19, 22, delete conditions 9, 13 and add conditions 21 to 24 to reflect the realignment of the Noah Creek bridge
Reasons:	The reasons for the responsible entity decision are in Attachment 1

Page 1 of 13

Far North Queensland regional office
Ground Floor, Cnr Grafton and Hartley
Street, Cairns
PO Box 2358, Cairns QLD 4870

The following copy of the changed application decision notice replaces the previous SARA referral agency response issued for the original development application (SARA reference: 2003-16006 SRA).

Changed response

Outcome:	Referral agency response – with conditions
Date of original response:	15 September 2020
Original reference:	2003-16006 SRA
Conditions:	The conditions in Attachment 2 must be attached to any development approval
Advice:	Advice to the applicant is in Attachment 3
Currency period:	This development approval will lapse if development is not started within the currency periods stated in section 85 of the <i>Planning Act 2016</i>

Development details

Description:	Development permit for Operational work (bridge replacement)
SARA role:	Referral agency
SARA triggers:	Schedule 10, Part 6, Division 3, Subdivision 3, Table 1 (Planning Regulation 2017) Development application for Fisheries – Removal, destruction or damage or marine plants (10.6.3.3.1.1) Schedule 10, Part 6, Division 4, Subdivision 3, Table 1 (Planning Regulation 2017) Development application for Fisheries – Waterway barrier works (10.6.4.3.1.1) Schedule 10, Part 17, Division 3, Table 1 (Planning Regulation 2017) Development application for Tidal works or works in a coastal management district (10.17.3.1.1)
Assessment manager:	Douglas Shire Council
Street address:	Cape Tribulation Road, Cape Tribulation
Real property description:	Adjoining Lot 900 on SP296959 & Lot 20 on SP296959
Applicant name:	Douglas Shire Council
Applicant contact details:	C/- RPS AAP Consulting Pty Ltd PO Box 1949 CAIRNS QLD 4870 stacey.devaney@rpsconsulting.com

Additional details

Native title considerations:	Native title is extinguished over the road in accordance with section 23B(7) of the <i>Native Title Act 1993</i> (NTA) as a road is considered to be a public work under section 253 of the NTA.
<i>Human Rights Act 2019</i> considerations:	A consideration of the 23 fundamental human rights protected under the <i>Human Rights Act 2019</i> has been undertaken as part of this decision. It has been determined that this decision does not limit human rights.

Dispute resolution

Appeal: The rights of applicants to appeal to a tribunal or the Planning and Environment Court against decisions about a change application are set out in Chapter 6, Part 1 of the *Planning Act 2016*. Copies of the relevant provisions are in **Attachment 4**.

For further information please contact Charlton Best, Senior Planning Officer, on 07 4037 3200 or via email CairnsSARA@dsdilgp.qld.gov.au who will be pleased to assist.

Yours sincerely



Javier Samanes
A/ Manager (Planning)

enc Attachment 1 - Reasons for responsible entity decision
 Attachment 2 – Changed referral agency conditions
 Attachment 3 – Changed advice to the applicant
 Attachment 4 – Appeal provisions
 Attachment 5 – Documents referenced in conditions

cc Douglas Shire Council, enquiries@douglas.qld.gov.au

Attachment 1—Reasons for responsible entity decision

(Given under section 83(9) of the *Planning Act 2016*)

The reasons for the SARA decision are:

The change application is minor and, with conditions, continues to comply with the relevant provisions of State code 8: Coastal development and tidal works, State code 11: Removal, destruction or damage of marine plants and State code 18: Constructing or raising waterway barrier works in fish habitats of the State Development Assessment Provisions (SDAP), version 3.2, in that:

- The works are to replace a public facility, being a vehicle bridge. There is a demonstrated need for the bridge to connect Thornton Beach to Cape Tribulation.
- The bridge will provide adequate fish passage.
- Construction methodology and location of crossing will minimise impacts on the waterway.
- Environmental controls will be installed, and site rehabilitation will be undertaken to mitigate impacts.
- The replacement dual lane bridge is coastal dependent development.
- Impacts on matters of state environmental significance have been avoided, minimised, mitigated and offset.
- The development will not impact coastal processes along the coast as the new bridge is proposed 2km upstream.
- Scour protection works will be implemented for the abutments along Noah Creek. Vegetation will be removed; however, a rehabilitation plan will be in place.
- The proposed development does not significantly increase the risk or impact to people and property from coastal erosion.
- The development maintains the public use and access to state coastal land.
- Where impacts to matters of state environmental significance (MSES) are unavoidable, an Environmental Management Plan includes mitigation measures.
- The proposed location provides an adequate buffer to wetlands.

Material used in the assessment of the change application:

- The change application material and submitted plans
- *Planning Act 2016*
- Planning Regulation 2017
- The SDAP (version 3.2)
- The Development Assessment Rules
- SARA DA Mapping system
- State Planning Policy mapping system
- *Human Rights Act 2019*

Attachment 2—Changed referral agency conditions

(Under section 56(1)(b)(i) of the *Planning Act 2016* the following conditions must be attached to any development approval relating to this application) (Copies of the documents referenced below are found at Attachment 5)

No.	Conditions	Condition timing
Operational work being removal, destruction or damage of marine plants		
10.6.3.3.1.1—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Primary Industries to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	Operational work to remove, damage, destroy marine plants being limited to 11m ² , of mangrove fern and shown in General Arrangement Plan, prepared by Premise, dated 05/06/10, reference NQC-0023-S100 and revision C, amended in Red. Working Plan – Sheet 2 of 2 prepared by Premise, dated 29/07/2025, sheet number C009, revision 3, as amended in red by SARA.	At all times
2.	Provide written notice to notifications@daf.qld.gov.au notifications@dpi.qld.gov.au , when the development authorised under this approval: a) will start, and b) when it has been completed. These notices must state this permit number 2003-16006-SRA 2506-46415 SPD.	a) At least 5 business days but no greater than 20 business days prior to the commencement of the works b) Within 15 business days of the completion of the fisheries development works
3.	For the proposed works, only use clean materials and ensure that the works do not cause contamination.	For the duration of the works
4.	Spoil is not disposed of on tidal lands or within waterways and is managed to prevent acid soil development.	At all times
5.	This fisheries development (as defined by the <i>Fisheries Act 1994</i>) constitutes a place that is required to be open for inspection by an inspector at all times, pursuant to section 145 of the <i>Fisheries Act 1994</i> .	At all times
6.	Marine plants authorised for removal and other material used in the development (e.g. debris, construction material, soil, etc.) are to be promptly removed from the intertidal zone.	For the duration of the works the subject of this approval and to be maintained
Operational work for constructing or raising waterway barrier works in fish habitat		
10.6.4.3.1.1—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of Department of Primary Industries to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the		

following condition(s):		
7.	The bridge construction must be undertaken generally in accordance with the following plans: • General Arrangement Plan, prepared by Premise, dated 06/08/10, reference NQC 0023-S100, revision C, as amended in red. <u>Site Plan prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST005, issue B.</u> • General Arrangement—Long Section, prepared by Premise, dated 06/08/10, reference NQC 0023-S101 and revision C. <u>Long Section prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST006, issue B.</u> • Road Cross Sections—Proposed Retaining Wall Location, prepared by Premise, DRAFT 30/08/10, reference NQC 0023-SKC006, revision 1, as amended in red	For the duration of the works
8.	Maintain the development in accordance with the plans referenced in condition 87, and the requirements of any conditions included in this development approval.	At all times
9.	The temporary waterway barrier works must be undertaken generally in accordance with the Noah Creek Bridge Replacement, Environment Management Plan (Construction Phase Services), prepared by Environment Pacific, dated February 2020, reference 080810-EMP and revision D, in particular: • Section 2.2—Proposed Works.	For the duration of works
10.	In-stream works are to be completed as quickly as possible, but must be avoided during times of: (a) elevated flows of greater than a 10% AEP event; and (b) between 1 November and 1 February to minimise disruption to spawning and migrating fish as well as the dispersal of plant propagules.	At all times
11.	The obsolete Noah Creek Bridge, must be completely removed immediately after the replacement structure inclusive of the approved fish passage, has been completed.	Upon completion of the works subject of this approval
12.	Land profiles that are temporarily disturbed by the development works (other than those within the permanent development footprint, as shown on General Arrangement Plan, prepared by Premise, dated 06/08/10, reference NQC 0023-S100 and revision C, as amended in red <u>Long Section prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST006, issue B.</u> must be promptly restored to pre-work profiles.	Upon completion of the works subject of this approval
13.	The temporary waterway barrier described in condition 8 must be completely removed immediately after completion of construction of the bridge and removal of the old bridge.	Upon completion of the works subject of this approval

Operational work that is Tidal works or works in a coastal management district		
10.17.3.1.1— The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Environment, Tourism, Science and Innovation to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
14.	The bridge construction must be undertaken generally in accordance with the following plans: • Typical Cross Sections, prepared by Premise, dated 12/04/2010, reference NQC-0023-C003 and version A • Roadworks and Longitudinal Section Plan, prepared by Premise, dated 12/04/2010, reference NQC-0023-C005 A and version A • Roadworks Details, Pavement and Drainage Plan, prepared by Premise, dated 12/04/2010, reference NQC-0023-C006 and version A • Signage and Linemarking Plan, prepared by Premise, dated 12/04/2010, reference NQC-0023-C008, version A • General Arrangement—Plan, prepared by Premise, dated 05/06/2010, reference NQC-0023-S100, version C • General Arrangement—Long Section, prepared by Premise, dated 05/06/2010, reference NQC-0023-S101, version C • General Arrangement—Scour Protection Details, prepared by Premise, dated 05/06/2010, reference NQC-0023-S107 and version B • <u>Site Plan prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST005, issue B</u> • <u>Long Section prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST006, issue B</u> • <u>Piles Layout prepared by Premise, dated 12.03.2025, drawing no. JJR-1240502B-ST016, issue B</u> • <u>Typical Sections – Sheet 1 of 2 prepared by Premise, dated 13/02/2025, sheet number C006, revision 2</u> • <u>Typical Sections – Sheet 2 of 2 prepared by Premise, dated 13/02/2025, sheet number C007, revision 2</u> • <u>Working Plan – Sheet 1 of 2 prepared by premise, dated 29/07/2025, sheet number C008, revision 3</u> • <u>Working Plan – Sheet 2 of 2 prepared by Premise, dated 29/07/2025, sheet number C009, revision 3, as amended in red by SARA.</u>	For the duration of the works
15.	For the proposed works, only use clean materials and ensure that the works do not cause contamination. For the proposed works, only use clean materials which are free from prescribed water contaminants.	For the duration of the works

16.	a) An erosion and sediment control plan must be prepared by a suitably qualified person, in accordance with Best Practice Erosion and Sediment Control (BPESC) guidelines for Australia (International Erosion Control Association). b) Provide the erosion and sediment control plan to the palm@des.qld.gov.au palm@detsi.qld.gov.au or mailed to: Department of Environment and Science Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001 c) Undertake the development generally in accordance with the erosion and sediment control plan; and d) Provide written evidence from a suitably qualified person that all elements of this condition have been complied with.	a) and b) Prior to the works occurring c) While works are occurring d) Upon completion of the works
17.	Should the replacement Noah Creek Bridge collapse, fail or otherwise suffer structural consequences which impact their integrity or ability to function as intended, the works must be: a) reinstated in accordance with this development approval; or b) removed and disposed of at an appropriately licensed facility.	As soon as reasonably practicable subsequent to the damage
18.	Obtain RPEQ certification confirming that the tidal works, have been constructed in accordance with the relevant Australian Standards. A copy of the certification must be provided to palm@des.qld.gov.au palm@detsi.qld.gov.au or mailed to: Department of Environment and Science Department of the Environment, Tourism, Science and Innovation Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane Qld 4001	Within two (2) weeks of the completion of the works
19.	A rehabilitation plan must be prepared by suitably qualified person and must be: i. In accordance with the National Standards for the practice of ecological restoration in Australia 2nd edition. December 2017 or more recent. Provide the rehabilitation plan to the palm@des.qld.gov.au	Prior to the commencement of the works

	palm@detsi.qld.gov.au or mail to: Department of Environment and Science <u>Department of the Environment, Tourism, Science and Innovation</u> Permit and Licence Management Implementation and Support Unit GPO Box 2454	
20.	Any vegetation planted as a result of the rehabilitation work must be maintained as detailed within the rehabilitation plan. This includes but is not limited to the control of weed species and controlled pedestrian and vehicle access.	For 6 months after completion of the rehabilitation works
21.	<u>Maintain the development in accordance with the plans referenced in condition 14, and the requirements of any conditions included in this development approval.</u>	<u>At all times</u>
22.	<u>Submit "As Constructed drawings" to palm@detsi.qld.gov.au or mail to:</u> <u>Department of the Environment, Tourism, Science and Innovation</u> <u>Permit and Licence Management</u> <u>Implementation and Support Unit</u> <u>GPO Box 2454</u> <u>Brisbane Qld 4001</u>	<u>Within 20 business days of the completion of the works.</u>
23.	a) <u>In the event that the works cause disturbance or oxidation of acid sulfate soil, the affected soil must be treated and thereafter managed (until the affected soil has been neutralised or contained) in accordance with the current Queensland Acid Sulfate Soil Technical Manual: Soil management guidelines, prepared by the Department of Science, Information Technology, Innovation and the Arts, 2014.</u> b) <u>Submit certification from an appropriately qualified person on acid sulfate soil, confirming that the affected soil has been neutralised or contained, in accordance with (a) above is to be provided to palm@detsi.qld.gov.au or mailed to:</u> <u>Department of the Environment, Tourism, Science and Innovation</u> <u>Permit and Licence Management</u> <u>GPO Box 2454</u> <u>Brisbane Qld 4001</u> <u>Note: Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and</u>	a) <u>Upon disturbance or oxidation until the affected soil has been neutralised or contained</u> b) <u>At the time the soils have been neutralised or contained</u>

	<u>experience relevant to soil chemistry or acid sulfate soil management and can give authoritative assessment, advice and analysis in relation to acid sulfate soil management using the relevant protocols, standards, methods or literature.</u>	
24.	<u>Remove and dispose of the entire demolished Noah Creek bridge at an appropriately licenced facility.</u>	<u>Within 3 (three) months of completion of works</u>

Attachment 3—Changed advice to the applicant

General advice	
1.	Terms and phrases used in this document are defined in the <i>Planning Act 2016</i> , its regulation or the State Development Assessment Provisions (SDAP) version 3.2. If a word remains undefined it has its ordinary meaning.
2.	Under Schedule 7, Part 3, Section 9 of the Planning Regulation 2017, operational works in a wetland protection area, that is high impact earthworks, and is carried out for government supported transport infrastructure, is accepted development if it complies with Schedule 14 of the Planning Regulation 2017.
3.	Tampering with an Animal Breeding Place of a Protected Species It should be noted that under the Nature Conservation (Animals) Regulation 2020, in order to tamper with the breeding place of a protected species (identified in the <i>Nature Conservation Act 1992</i>) appropriate authorisation is required. For further guidance on this please see the Species Management Program information page at https://environment.des.qld.gov.au/licences-permits/plants-animals/species-management-program/index.html
4.	Matters of National Environmental Significance (MNES) Matters of National Environmental Significance, or other matters protected by the <i>Environment Protection and Biodiversity Conservation Act 1999</i> are likely to occur in the area of interest. Further information relating to matters protected by the <i>Environment Protection and Biodiversity Conservation Act 1999</i> can be obtained from the Department of the Environment and Energy website: http://www.environment.gov.au/epbc/protected-matters-search-tool
Existing heavy vehicle ford bypass	
5.	It is understood that an existing emergency heavy vehicle ford bypass is currently in place upstream of Noah Creek bridge. This temporary heavy vehicle bypass is proposed to be reconstructed as an all-vehicle temporary sidetrack to maintain traffic during the bridge replacement works (bridge construction period of up to 200 days). It should be noted that this minor change application does not authorise waterway barrier works associated with the construction of the emergency bypass. All temporary barriers associated with the construction of the bridge works must be entirely removed from the waterway once the replacement bridge is operational.

Attachment 4—Appeal provisions

(page left intentionally blank – attached separately)

Attachment 5—Documents referenced in conditions

(page left intentionally blank – attached separately)

Reasons for Decision

1. The reasons for this decision are:
 - a. Sections 78, 79, 81, 81A and 83 of the *Planning Act 2016*:
 - b. to ensure the development satisfies the benchmarks of the 2018 Douglas Shire Planning Scheme Version 1.0; and
 - c. to ensure compliance with the *Planning Act 2016*.
2. Findings on material questions of fact:
 - a. the development application was properly lodged to the Douglas Shire Council 7 August 2025 under sections 78 and 79 of the *Planning Act 2016* and Part 1 of the *Development Assessment Rules*;
 - b. the development application contained information from the applicant which Council reviewed together with Council's own assessment against the 2017 State Planning Policy and the 2018 Douglas Shire Planning Scheme Version 1.0 in making its assessment manager decision.
3. Evidence or other material on which findings were based:
 - a. the development triggered assessable development under the Assessment Table associated with the Conservation Zone Code;
 - b. Council undertook an assessment in accordance with the provisions of sections 81, 81A and 83 of the *Planning Act 2016*; and
 - c. the applicant's reasons have been considered and the following findings are made:
 - i. Development is supported despite the conflict, subject to conditions, the development satisfactorily meets the Planning Scheme benchmarks.

Planning Act 2016
Chapter 3 Development assessment

[s 74]

relevant preliminary approval means a preliminary approval given under the old Act by an entity other than a private certifier.

Division 2 Changing development approvals

Subdivision 1 Changes during appeal period

74 What this subdivision is about

- (1) This subdivision is about changing a development approval before the applicant's appeal period for the approval ends.
- (2) This subdivision also applies to an approval of a change application, other than a change application for a minor change to a development approval.
- (3) For subsection (2), sections 75 and 76 apply—
 - (a) as if a reference in section 75 to a development approval were a reference to an approval of a change application; and
 - (b) as if a reference in the sections to the assessment manager were a reference to the responsible entity; and
 - (c) as if a reference in section 76 to a development application were a reference to a change application; and
 - (d) as if the reference in section 76(3)(b) to section 63(2) and (3) were a reference to section 83(4); and
 - (e) with any other necessary changes.

75 Making change representations

- (1) The applicant may make representations (*change representations*) to the assessment manager, during the applicant's appeal period for the development approval, about changing—

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Authorised by the Parliamentary Counsel

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- (a) a matter in the development approval, other than—
 - (i) a matter stated because of a referral agency's response; or
 - (ii) a development condition imposed under a direction given by the Minister under part 6, division 2; or
 - (iii) a development condition imposed under a direction given by the chief executive under section 106ZF(2); or
 - (b) if the development approval is a deemed approval—the standard conditions taken to be included in the deemed approval under section 64(8)(d).
- (2) If the applicant needs more time to make the change representations, the applicant may, during the applicant's appeal period for the approval, suspend the appeal period by a notice given to the assessment manager.
- (3) Only 1 notice may be given.
- (4) If a notice is given, the appeal period is suspended—
- (a) if the change representations are not made within a period of 20 business days after the notice is given to the assessment manager—until the end of that period; or
 - (b) if the change representations are made within 20 business days after the notice is given to the assessment manager, until—
 - (i) the applicant withdraws the notice, by giving another notice to the assessment manager; or
 - (ii) the assessment manager gives the applicant the decision notice for the change representations; or
 - (iii) the end of 20 business days after the change representations are made, or a longer period agreed in writing between the applicant and the assessment manager.
- (5) If the applicant makes the change representations during the appeal period without giving a notice under subsection (2),

the appeal period is suspended from the day the representations are made until—

- (a) the applicant withdraws the change representations by notice given to the assessment manager; or
 - (b) the assessment manager gives the applicant the decision notice for the change representations; or
 - (c) the end of 20 business days after the change representations are made, or a longer period agreed in writing between the applicant and the assessment manager.
- (6) Despite subsections (4) and (5), if the decision notice mentioned in subsection (4)(b)(ii) or (5)(b) is a negotiated decision notice, the appeal period starts again on the day after the negotiated decision notice is given.

76 Deciding change representations

- (1) The assessment manager must assess the change representations against and having regard to the matters that must be considered when assessing a development application, to the extent those matters are relevant.

Note—

For change representations for a development approval for development requiring social impact assessment, see also section 106ZI.

- (2) The assessment manager must, within 5 business days after deciding the change representations, give a decision notice to—
- (a) the applicant; and
 - (b) if the assessment manager agrees with any of the change representations—
 - (i) each principal submitter; and
 - (ii) each referral agency; and
 - (iii) if the assessment manager is not a local government and the development is in a local

-
- government area—the relevant local government;
and
- (iv) if the assessment manager is a chosen assessment manager—the prescribed assessment manager; and
 - (v) another person prescribed by regulation.
- (3) A decision notice (a *negotiated decision notice*) that states the assessment manager agrees with a change representation must—
- (a) state the nature of the change agreed to; and
 - (b) comply with section 63(2) and (3).
- (4) A negotiated decision notice replaces the decision notice for the development application.
- (5) Only 1 negotiated decision notice may be given.
- (6) If a negotiated decision notice is given to an applicant, a local government may give a replacement infrastructure charges notice to the applicant.

Subdivision 2 Changes after appeal period

77 What this subdivision is about

This subdivision is about changing a development approval, other than the currency period, after all appeal periods in relation to the approval end.

78 Making change application

- (1) A person may make an application (a *change application*) to change a development approval.

Note—

For the making of a change application for a development approval that was a PDA development approval, see also the *Economic Development Act 2012*, sections 51AM, 51AN and 51AO.

- (2) A change application must be made to the responsible entity for the application.

78A Responsible entity for change applications

- (1) The *responsible entity* for a change application is—
 - (a) if the change application is for a minor change to a development condition of a development approval stated in a referral agency's response for the development application or another change application for the approval—the referral agency; or
 - (b) otherwise—the assessment manager.

Note—

For the responsible entity for a change application for a development approval that was a PDA development approval, see also the *Economic Development Act 2012*, section 51AN.

- (2) However, the P&E Court is the responsible entity for the change application instead of the person under subsection (1) if—
 - (a) the change application is for a minor change to a development approval; and
 - (b) the development approval was given or changed by the P&E Court; and
 - (c) a properly made submission was made about—
 - (i) the development application for the development approval; or
 - (ii) another change application for the development approval.
- (3) Also, the Minister is the responsible entity for the change application instead of the person under subsection (1) if—
 - (a) the change application is for a change to—
 - (i) a condition of a development approval that the Minister directed be imposed or amended under section 95; or

- (2) The person is taken to have engaged in the representative's conduct, unless the person proves the person could not have prevented the conduct by exercising reasonable diligence.
- (3) In this section—
 - conduct* means an act or omission.
 - representative* means—
 - (a) of a corporation—an executive officer, employee or agent of the corporation; or
 - (b) of an individual—an employee or agent of the individual.
 - state of mind*, of a person, includes the person's—
 - (a) knowledge, intention, opinion, belief or purpose; and
 - (b) reasons for the intention, opinion, belief or purpose.

Chapter 6 Dispute resolution

Part 1 Appeal rights

229 Appeals to tribunal or P&E Court

- (1) Schedule 1 states—
 - (a) matters that may be appealed to—
 - (i) either a tribunal or the P&E Court; or
 - (ii) only a tribunal; or
 - (iii) only the P&E Court; and
 - (b) the person—
 - (i) who may appeal a matter (the *appellant*); and
 - (ii) who is a respondent in an appeal of the matter; and

- (iii) who is a co-respondent in an appeal of the matter;
and
- (iv) who may elect to be a co-respondent in an appeal
of the matter.

Note—

For limitations on appeal rights in relation to a development approval
for development requiring social impact assessment, see section 106ZJ.

- (2) An appellant may start an appeal within the appeal period.
- (3) The ***appeal period*** is—
 - (a) for an appeal by a building advisory agency—10
business days after a decision notice for the decision is
given to the agency; or
 - (b) for an appeal against a deemed refusal—at any time
after the deemed refusal happens; or
 - (c) for an appeal against a decision of the Minister, under
chapter 7, part 4, to register premises or to renew the
registration of premises—20 business days after a notice
is published under section 269(3)(a) or (4); or
 - (d) for an appeal against a decision of the Minister, under
chapter 7, part 4, to amend the registration of premises
to include additional land in the affected area for the
premises—20 business days after the day a notice is
published under section 269A(2)(a); or
 - (e) for an appeal against an infrastructure charges
notice—20 business days after the infrastructure charges
notice is given to the person; or
 - (f) for an appeal about a deemed approval of a development
application for which a decision notice has not been
given—30 business days after the applicant gives the
deemed approval notice to the assessment manager; or
 - (g) for an appeal relating to the *Plumbing and Drainage Act
2018*—
 - (i) for an appeal against an enforcement notice given
because of a belief mentioned in the *Plumbing and*

Drainage Act 2018, section 143(2)(a)(i), (b) or (c)—5 business days after the day the notice is given; or

- (ii) for an appeal against a decision of a local government or an inspector to give an action notice under the *Plumbing and Drainage Act 2018*—5 business days after the notice is given; or
 - (iii) for an appeal against a failure to make a decision about an application or other matter under the *Plumbing and Drainage Act 2018*—at anytime after the period within which the application or matter was required to be decided ends; or
 - (iv) otherwise—20 business days after the day the notice is given; or
- (h) for any other appeal—20 business days after a notice of the decision for the matter, including an enforcement notice, is given to the person.

Note—

See the P&E Court Act for the court's power to extend the appeal period.

- (4) Each respondent and co-respondent for an appeal may be heard in the appeal.
- (5) If an appeal is only about a referral agency's response, the assessment manager may apply to the tribunal or P&E Court to withdraw from the appeal.
- (6) To remove any doubt, it is declared that an appeal against an infrastructure charges notice must not be about—
 - (a) the adopted charge itself; or
 - (b) for a decision about an offset or refund—
 - (i) the establishment cost of trunk infrastructure identified in a LGIP; or
 - (ii) the cost of infrastructure decided using the method included in the local government's charges resolution.

230 Notice of appeal

- (1) An appellant starts an appeal by lodging, with the registrar of the tribunal or P&E Court, a notice of appeal that—
 - (a) is in the approved form; and
 - (b) succinctly states the grounds of the appeal.
- (2) The notice of appeal must be accompanied by the required fee.
- (3) The appellant or, for an appeal to a tribunal, the registrar, must, within the service period, give a copy of the notice of appeal to—
 - (a) the respondent for the appeal; and
 - (b) each co-respondent for the appeal; and
 - (c) for an appeal about a development application under schedule 1, section 1, table 1, item 1—each principal submitter for the application whose submission has not been withdrawn; and
 - (d) for an appeal about a change application under schedule 1, section 1, table 1, item 2—each principal submitter for the application whose submission has not been withdrawn; and
 - (e) each person who may elect to be a co-respondent for the appeal other than an eligible submitter for a development application or change application the subject of the appeal; and
 - (f) for an appeal to the P&E Court—the chief executive; and
 - (g) for an appeal to a tribunal under another Act—any other person who the registrar considers appropriate.
- (4) The *service period* is—
 - (a) if a submitter or advice agency started the appeal in the P&E Court—2 business days after the appeal is started; or
 - (b) otherwise—10 business days after the appeal is started.

- (5) A notice of appeal given to a person who may elect to be a co-respondent must state the effect of subsection (6).
- (6) A person elects to be a co-respondent to an appeal by filing a notice of election in the approved form—
 - (a) if a copy of the notice of appeal is given to the person—within 10 business days after the copy is given to the person; or
 - (b) otherwise—within 15 business days after the notice of appeal is lodged with the registrar of the tribunal or the P&E Court.
- (7) Despite any other Act or rules of court to the contrary, a copy of a notice of appeal may be given to the chief executive by emailing the copy to the chief executive at the email address stated on the department's website for this purpose.

231 Non-appealable decisions and matters

- (1) Subject to this chapter, section 316(2), schedule 1 and the P&E Court Act, unless the Supreme Court decides a decision or other matter under this Act is affected by jurisdictional error, the decision or matter is non-appealable.
- (2) The *Judicial Review Act 1991*, part 5 applies to the decision or matter to the extent it is affected by jurisdictional error.
- (3) A person who, but for subsection (1) could have made an application under the *Judicial Review Act 1991* in relation to the decision or matter, may apply under part 4 of that Act for a statement of reasons in relation to the decision or matter.
- (4) In this section—
decision includes—
 - (a) conduct engaged in for the purpose of making a decision; and
 - (b) other conduct that relates to the making of a decision; and

- (c) the making of a decision or the failure to make a decision; and
- (d) a purported decision; and
- (e) a deemed refusal.

non-appealable, for a decision or matter, means the decision or matter—

- (a) is final and conclusive; and
- (b) may not be challenged, appealed against, reviewed, quashed, set aside or called into question in any other way under the *Judicial Review Act 1991* or otherwise, whether by the Supreme Court, another court, any tribunal or another entity; and
- (c) is not subject to any declaratory, injunctive or other order of the Supreme Court, another court, any tribunal or another entity on any ground.

232 Rules of the P&E Court

- (1) A person who is appealing to the P&E Court must comply with the rules of the court that apply to the appeal.
- (2) However, the P&E Court may hear and decide an appeal even if the person has not complied with rules of the P&E Court.

Part 2 Development tribunal

Division 1 General

233 Appointment of referees

- (1) The Minister, or chief executive, (the **appointer**) may appoint a person to be a referee, by an appointment notice, if the appointer considers the person—