

HARSANTS ROAD, LAWGI DAWES
CONCRETE FLOWWAY OVERLAY
IDP ID NO. 23/24 0131-0223-9005

NO WORK IS SO
IMPORTANT THAT
IT CANNOT BE
DONE SAFELY



LOCALITY PLAN
NOT TO SCALE

DRAWING INDEX		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	0131-0223-9005-001	LOCALITY PLAN & SHEET INDEX
2	0131-0223-9005-002	GENERAL ARRANGEMENT PLAN

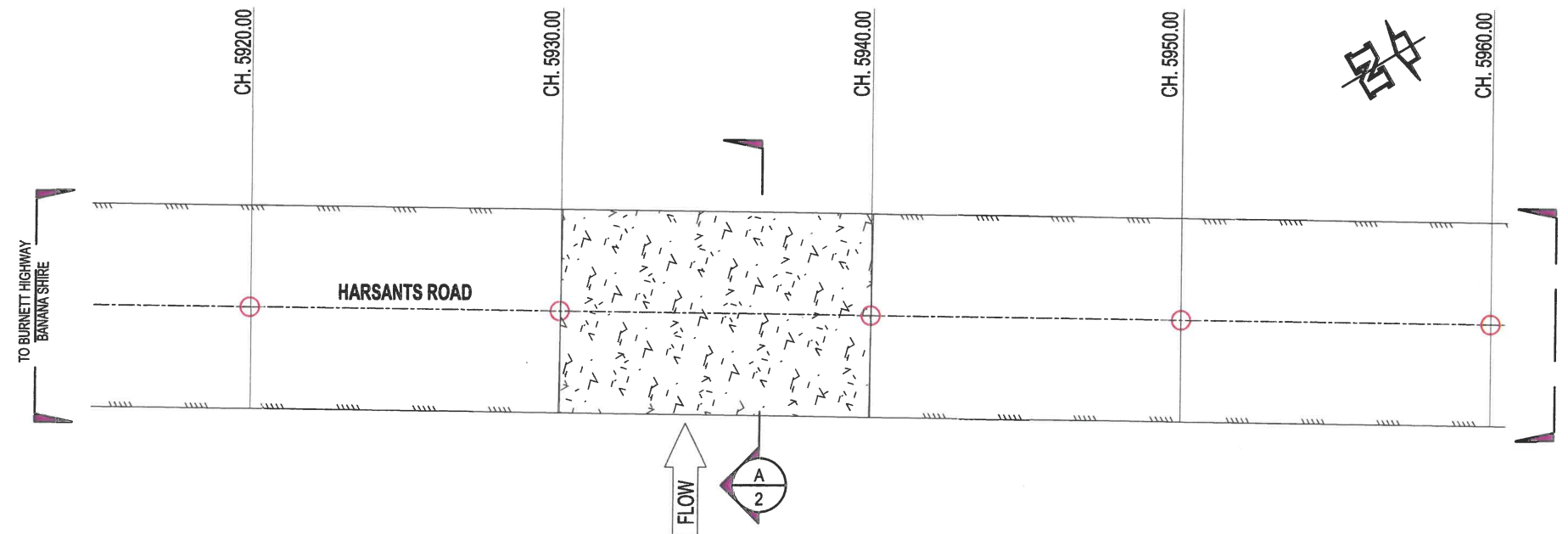
- NOTES:
- FOR INSTALLATION OF FLOODWAY - BED LEVEL CROSSING REFER TO STD. DWG. CMDG - R - 094.

WARNING

The location of existing public utilities shown on these drawings is approximate only and in some cases may be inaccurate or incomplete. No responsibility is accepted for nor is any guarantee made as to the accuracy of the locations shown that have been plotted from information provided by the relevant public utility authorities. The attention of the user of these drawings is directed to the possible existence of underground public utilities and private service lines not shown or at locations different from those shown on these drawings. It is the responsibility of those persons using these drawings to confirm the existence of all public utilities and private service lines within the vicinity of the works in conjunction with the relevant public utility authority and/or by physical location.

FOR CONSTRUCTION

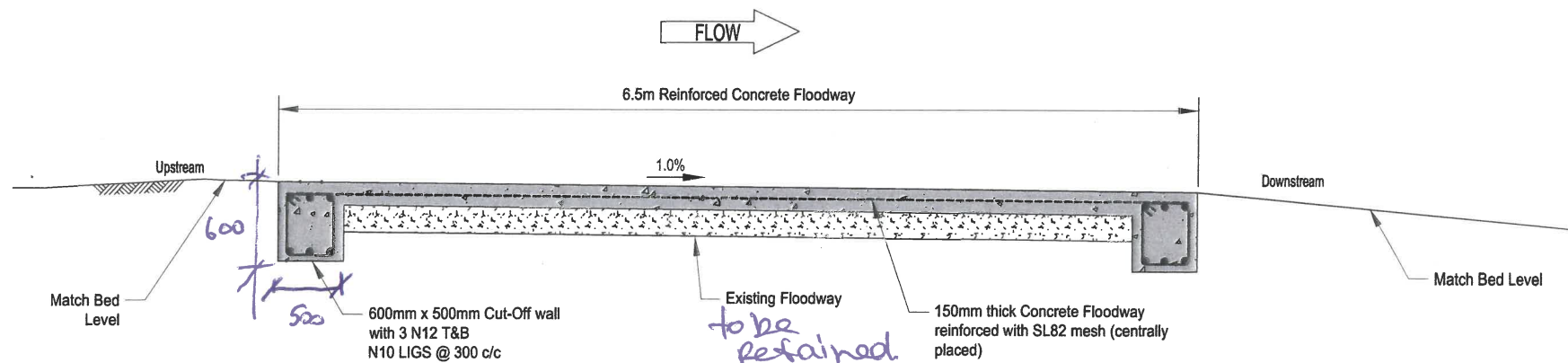
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PLAN
SCALE 1:200

LEGEND

- Proposed Bitumen Edge
- Existing Road Centreline
- Proposed Concrete Floodway


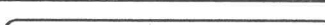


SECTION A
CH.5930.0 - CH.5940.0
NOT TO SCALE

WARNING

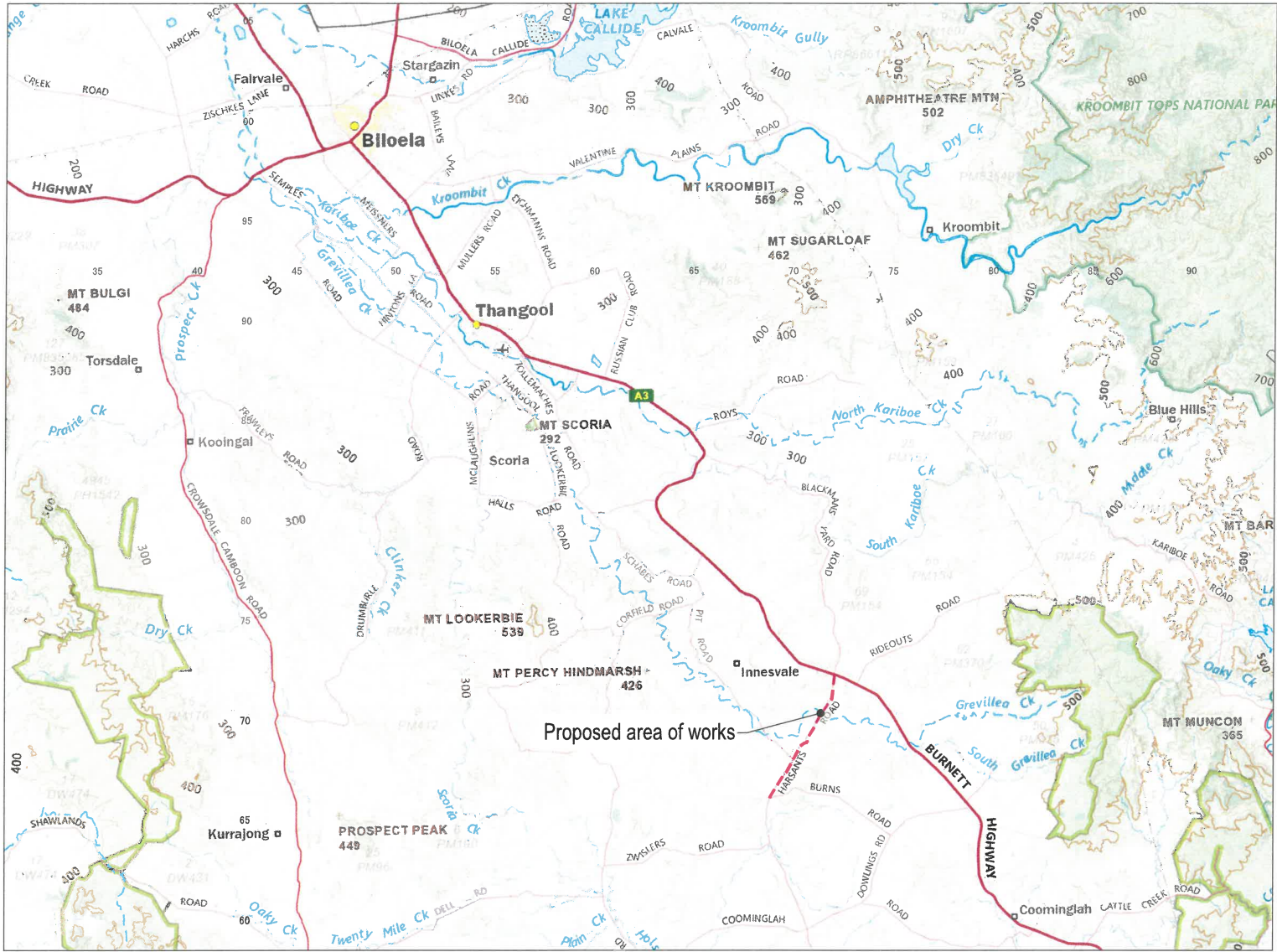
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FOR CONSTRUCTION

			General Notes:	N.GARVEY	I. JOHNSON	 Banana SHIRE <small>SHIRE OF BANANA</small>	 BEFORE YOU DIG www.byda.com.au	HARSANTS ROAD, LAWGI DAWES			
				DESIGN	MIW			CONCRETE FLOODWAY OVERLAY CH.5930 - CH.5940			
				N. GARVEY	P. MEREDITH			GENERAL ARRANGEMENT PLAN			
1	FOR REVIEW	17/10/2023		MIT	DIS RPEQ 15268			Scale AS SHOWN			
No.	Revision	Date						Dwg. No. 0131-0223-9005-002		Sheet 2 OF 2	Issue A

HARSANTS ROAD, GREVILLEA CREEK FLOODWAY

ROAD AND FLOODWAY UPGRADE



LOCALITY PLAN
(Not to scale)

DRAWING INDEX

Drawing Number	Date	Drawing Description
001	Sep-23	Project Cover Sheet
002	Sep-23	General Notes
300	Sep-23	Survey Control and Services Plan
400	Sep-23	Roadworks and Setout Plan Sheet 1
500	Sep-23	Pavement Plan
600	Sep-23	Longitudinal Section Sheet 1
700	Sep-23	Typical Cross Sections sheet 1
800	Sep-23	Annotated Cross Sections Sheet 1
801	Sep-23	Annotated Cross Sections Sheet 2
802	Sep-23	Annotated Cross Sections Sheet 3
803	Sep-23	Annotated Cross Sections Sheet 4

DRAWING INDEX

Drawing Number	Date	Drawing Description
804	Sep-23	Annotated Cross Sections Sheet 5
805	Sep-23	Annotated Cross Sections Sheet 6
806	Sep-23	Annotated Cross Sections Sheet 7
807	Sep-23	Annotated Cross Sections Sheet 8
1000	Sep-23	Supplementary Signs and Linemarking Details
1200	Sep-23	Floodway Details
1600	Sep-23	Limit of Clearing Plan
1700	Sep-23	Temporary Erosion and Sediment Control Sheet 1
1701	Sep-23	Temporary Erosion and Sediment Control Sheet 2
1702	Sep-23	Temporary Erosion and Sediment Control Sheet 3

STANDARD DRAWINGS:
ROADWORKS
Dwg. Rev. Description
CMDG-R-081 E Sign Location and Installation Details
CMDG-R-094 B Floodway - Bed Level Crossing
DEPARTMENT OF TRANSPORT AND MAIN ROADS - STANDARD DRAWINGS:
ROAD FURNITURE
1170 D Flood Depth Indicators - Installation
GENERAL EARTHWORKS AND PROPERTY ACCESS
1178 E Diversion of Water from Roadway and Table Drains

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Last Modified -> Sep 26, 2023 - 8:48am

					Scales		 quality people client focused solution driven	 Banana SHIRE SHIRE OF OPPORTUNITY	Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE PROJECT COVER SHEET					Job No.	CRC00311					
					Dimensions shown in metres except where shown otherwise									Drawing No.	001					
A Issued for Construction								COPYRIGHT The contents and information contained in this document are the copyright of CRC. This drawing may not be used, copied or reproduced in whole or part for any purpose other than the consent by which it is supplied by CRC.	ENGINEERING CERTIFICATION (RPEQ)					Revision	A					
20.01	Revisions/Descriptions			Drawn	Approved	Date							B. Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Series No.	1 of 21
									Designed	Civil	T. Penrose		24087	Sep 23						
									B. Doherty											

SAFETY IN DESIGN NOTES:

1. Potential safety hazards identified by the Designer have been assessed for this project in accordance with Safe Design of Structures - Code of Practices by Safe Work Australia, 2012. Refer to the **Safety In Design Report** for the potential safety hazards.
2. **Disclaimer:** It must be acknowledged that new and/or different risks may become apparent during each project phase. The designer has ensured, so far as reasonably practicable, that the structure/municipal work is designed to minimise risk to the health and safety of persons involved in construction or use related activities. Further, in Appendix D - Safety in Design Risk Register of the **Safety In Design Report**, assumptions may have been made within the different project phases as to how the project and/or project elements will be constructed and maintained. This may differ from the end methods adopted.
3. Any person who undertakes alterations, variations or modifications to these design drawings, without consultation and approval from the original or subsequent designer, will assume the duties of a designer and will be held responsible for the safety in design for this project.
4. All works must comply with W.H. & S. Act, 2011.

GENERAL NOTES:

1. Works shall be undertaken generally in accordance with the relevant CMDG construction specifications except where specific DTMR specification requirements are detailed within these Project specific Drawings. The most current version shall be adopted, unless noted otherwise.
2. Works to be measured in accordance with project specific *Supplementary Specification for Measurement and Work Operations for Work Items*.
3. If any archaeological or cultural material is exposed on the work site all works shall cease. The D.E.H.P., Aboriginal Land Council and I.C.C. are to be notified.
All works are to comply with the requirements of the Environmental Protection Act, 1994.
4. Disposal/movement of material in areas of Red Imported Fire Ants are to comply with the D.A.F.F. regulations. Refer the Department's website: www.daff.qld.gov.au/fireants for the current information.
5. Prior to commencement of work a Risk Management Plan to minimise the chance of spreading Fire Ants is to be completed.
6. The positions shown on drawings for public utilities services are based on the B.Y.D.A. information supplied at time of design and are indicative only. Prior to construction the current Service Authority information is to be obtained from B.Y.D.A. (website: www.byda.com.au). The position and depth of each service is to be verified by the relevant Service Authority on site before the start of any construction.
7. Where these drawings make reference to the Administrator or Contract Administrator it shall mean the Superintendent managing the works.
8. Prior to commencement of work contact the Superintendent if any PSM's are in the vicinity of the work site.
10. **Order of Precedence of Documents, Ambiguities or Discrepancies** - The following order of precedence shall apply where there is any ambiguity, discrepancy or inconsistency between the design documents comprising the Contract, with the higher in the list having a higher priority:
 - a. These Project Specific Drawings
 - b. Technical Specifications
 - c. Standard DrawingsThe several documents forming the Contract are to be taken as mutually explanatory of one another. If either party discovers any ambiguity or discrepancy in any document prepared for the purpose of executing the Work Under the Contract, that party shall notify the Superintendent in writing of the ambiguity or discrepancy as soon as possible.
11. The Scheme Drawings listed on the Project Cover Sheet are to be read as a whole and not in isolation. Any isolated drawing separated from the control set will be considered voided and is not to be used.
12. All drawings are to be read in conjunction with the project's specification and all relevant Standard Drawings.
13. All drawings are to be read in conjunction with the Abbreviation Table shown.
14. **Materials and workmanship** - Where materials, material components, workmanship and procedures are not specifically described by the Contract, they shall be in accordance with the relevant Australian Standard. Where no Australian Standard is available, other specifications shall be used in the following order of priority:
 - a. manufacturer's recommendations, and
 - b. accepted industry standards.At a minimum materials and workmanship shall be the best of their respective kinds and fit for the purpose for which they are intended.
Any product trade names have been used to establish a quality requirement. Written approval to be obtained prior to using any substitutions.
15. **Dimensions / Levels** - All levels and setout points shall be confirmed on site by a registered surveyor prior to construction. The Contractor shall seek clarification from the Superintendent for any discrepancy prior to proceeding with works. Dimensions shall not be scaled from drawings.
16. **Set Out of Individual Installations** - The Contractor shall set out an installation as shown on the Drawings in sufficient detail to identify the location, length and levels of the proposed installation. Once the initial set out is complete the Superintendent will determine the design appropriateness of the set out with regard to the actual site conditions. The Superintendent may direct amendments to the set-out details. Payment for such amendments will be made at appropriate rates in the Schedule of Rates or, where such rates are not deemed by the Superintendent to be appropriate, as determined by the Superintendent. Installations to be set out in accordance with the above requirements include:
 - a. drainage pipes, culverts, slabs and structures
 - b. landscaping
 - c. traffic control
17. **Existing Services** - Locate service prior to commencing works. Services are shown on these drawings for information only. No responsibility is taken for the accuracy or completeness of the information supplied. Take care to protect services from damage, and report any hits or damage to the service authority immediately.

EROSION AND SEDIMENT CONTROL NOTES:

1. During construction all necessary precautions shall be taken to control erosion and downstream sedimentation. Monitor the prevailing weather conditions and protect any downstream construction and gully inlets.
2. All sediment control devices, sediment fences, check dams, straw bales, stone traps and entry/exit sediment traps are to be in accordance with the E&SC plans within these project drawings or amended as required by the Contractor's suitably qualified professional.

EARTHWORK NOTES:

1. All unsuitable material is to be stripped prior to placement of structural fill.
2. All unsuitable material is to be removed in accordance with the specification or as directed by the Superintendent.
3. All contaminated soil to be removed in accordance with the specification or as directed by the Superintendent.
4. Earthwork quantities include existing road pavement excavated where applicable.
5. Earthwork quantities include unsuitable and or contaminated material except where noted otherwise.
6. Earthwork quantities in cut are bank (nett) volumes and in fill are compacted volumes.
7. Class A1 or B material to comply with the requirements of TMR MRTS04, and specific requirements within these project drawings.

LINEMARKING NOTES:

1. All linemarking, signs and traffic devices shall comply with the M.U.T.C.D. - current edition.
2. Ensure that signage has clear sight distance, otherwise adjust location accordingly.
3. Superseded linemarking and signage to be removed.

SERVICE ADJUSTMENT NOTES:

1. Service Authority infrastructure adjustments are to be performed by contractors approved by the relevant service authority.

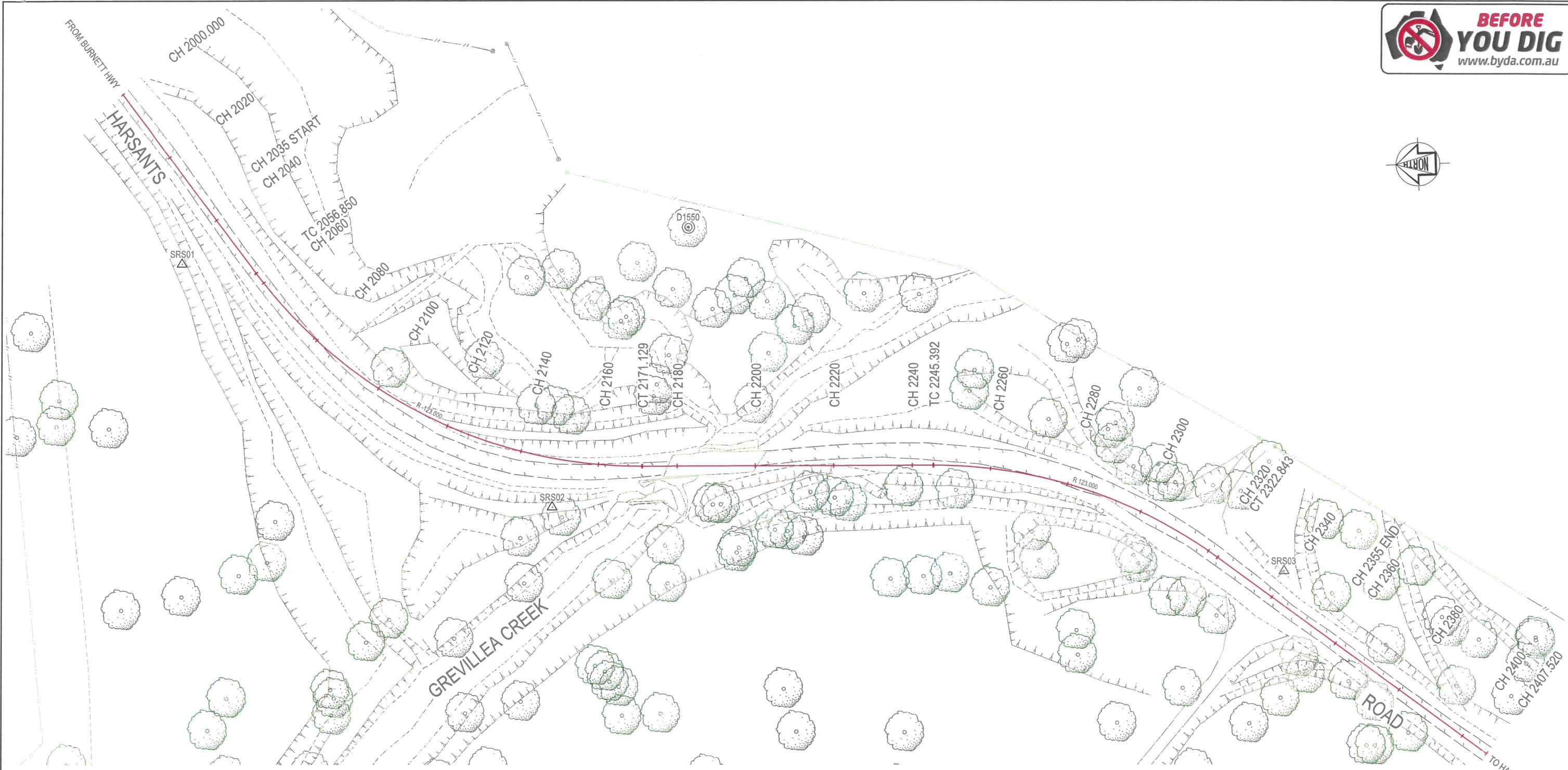


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Last Modified - Sep 26, 2023 - 8:48am

					Scales	 245 Mary Street, GYMPIE, QLD, 4570 ABN 73 617 924 437 Ph: 0477 322 555	 Client	Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE GENERAL NOTES					Job No.	CRC00311				
													Drawing No.	002				
								Dimensions shown in metres except where shown otherwise			Drawn B Doherty	ENGINEERING CERTIFICATION (RPEQ)				Revision A	Series No. 2 of 21	
												ENG. AREA	NAME	SIGNATURE	NO.			DATE
												Civil	T Penrose		24087			Sep 23
A Issued for Construction								Designed B Doherty										
20.01 Revisions/Descriptions																		

last Modified - Sep 26, 2023 - 8:48am



ENGINEERING SURVEY CONTROL				
STATION	EASTING	NORTHING	LEVEL	REMARKS
SRS01	271517.3920	7270363.7530	367.3000	Control point
SRS02	271452.0650	7270271.4240	364.4800	Control point
SRS03	271428.8570	7270085.6580	372.4400	Control point

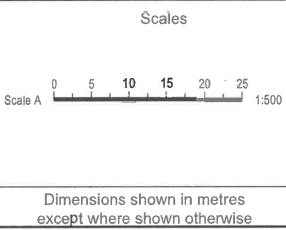
PERMANENT SURVEY MARKS				
PSM	EASTING	NORTHING	LEVEL	LOCATION
D1550	271521.8080	7270234.5870	366.4090	Original mark in tree
PSM41307	274333.926	7271162.961	397.180	Burnett Hwy ≈ 2.35km South East of Intersection with Harsants Rd

LEGEND

SRS01 Δ - Survey Mark and Label

WARNING!

BEWARE OF UNDERGROUND SERVICES
The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.



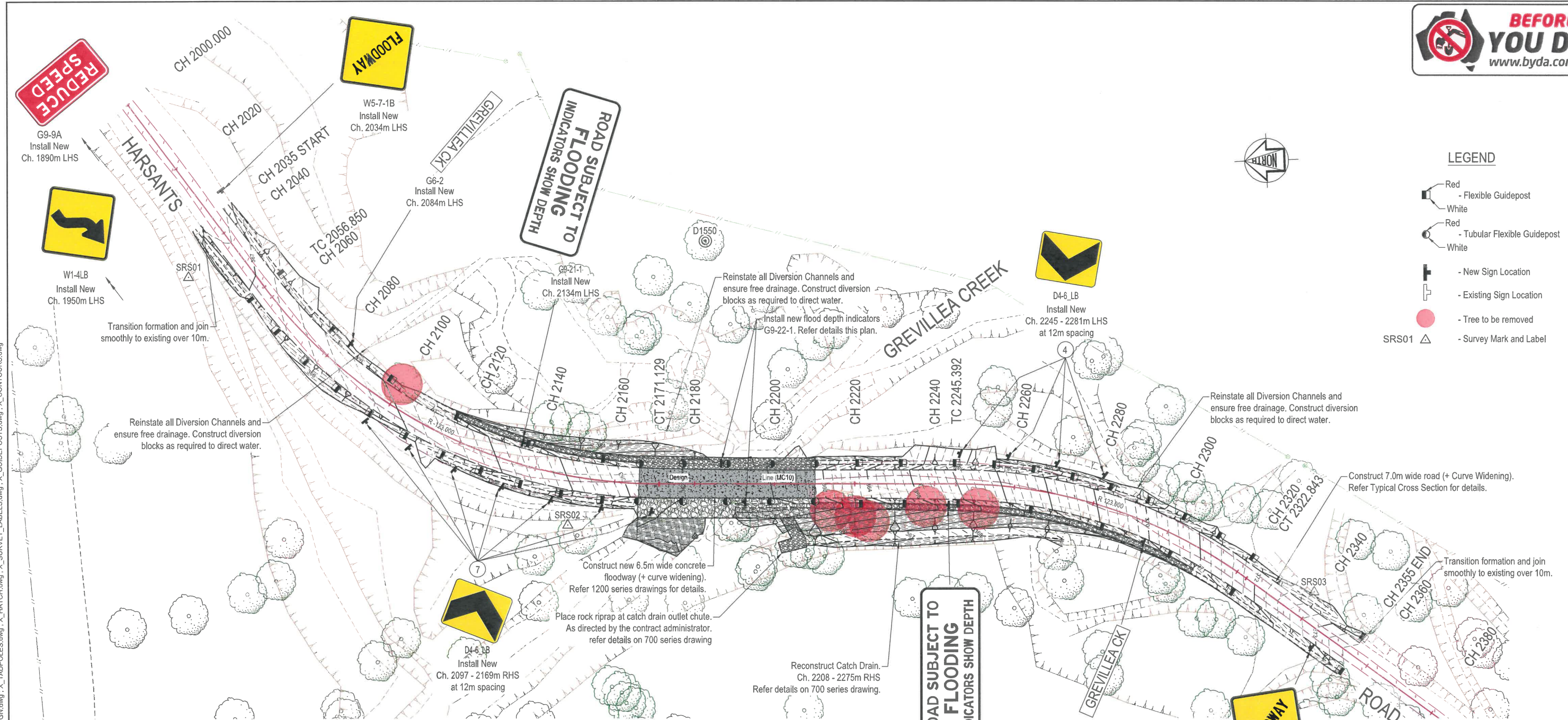
crc
quality people client focused solution driven
245 Mary Street, GYMPIE, QLD, 4570
ABN 73 617 924 437 Ph: 0477 322 555

Client
Banana SHIRE
SHIRE OF OPPORTUNITY
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Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE SURVEY CONTROL AND SERVICES PLAN					Job No.	CRC00311
Drawn B. Doherty					Drawing No.	300
Designed B. Doherty					Revision	A
ENGINEERING CERTIFICATION (RPEQ)					Series No.	3 of 21
ENG. AREA	NAME	SIGNATURE	NO.	DATE		
Civil	T. Penrose		24087	Sep 23		

LEGEND

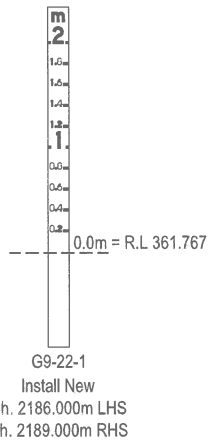
- Red - Flexible Guidepost
- White - Flexible Guidepost
- Red - Tubular Flexible Guidepost
- White - Tubular Flexible Guidepost
- New Sign Location
- Existing Sign Location
- Tree to be removed
- Survey Mark and Label



PLAN
Scale 1:500

DESIGN LINE SETOUT (MC10)

POINT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH	D.ANGLE
IP 1	2000.000	271560.997	7270377.358	368.064	235°13'59.00"			
TC	2056.850	271514.296	7270344.940	366.926	235°13'59.00"			
IP 2	2113.989	271463.661	7270309.791	365.641		R = -123.000	114.278	53°13'59.00"
CT	2171.129	271461.510	7270248.190	362.350	182°00'00.00"			
TC	2245.392	271458.919	7270173.972	365.979	182°00'00.00"			
IP 3	2284.118	271457.521	7270133.938	369.245		R = 123.000	77.451	36°04'41.37"
CT	2322.843	271432.815	7270102.406	371.858	218°04'41.37"			
IP 4	2407.520	271380.592	7270035.751	375.528	218°04'41.37"			



WARNING!

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Revisions/Descriptions	Drawn	Approved	Date
20.01			

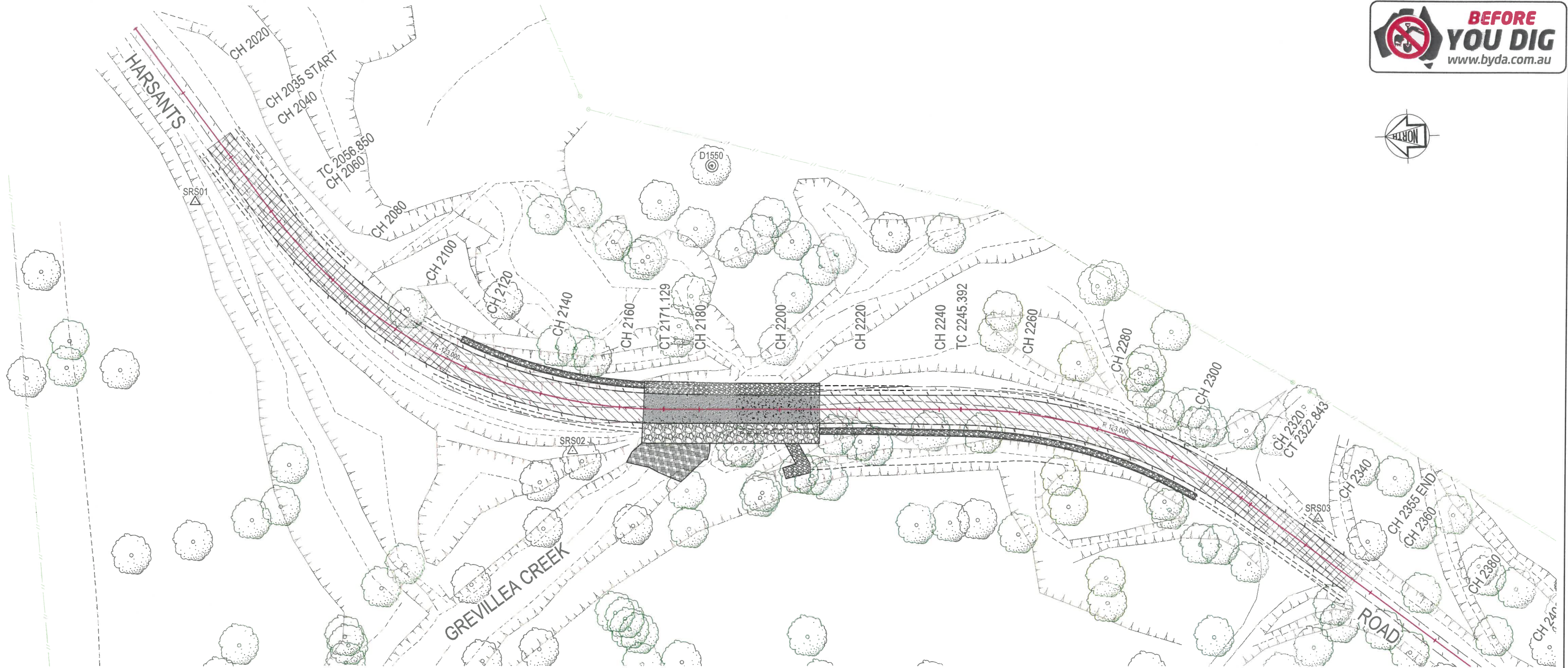


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Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE ROADWORKS AND SETOUT PLAN						Job No. CRC00311
Drawing No. 400						
Drawn B. Doherty	ENGINEERING CERTIFICATION (RPEQ)					Revision A
Designed B. Doherty	ENG. AREA Civil	NAME T. Penrose	SIGNATURE <i>T. Penrose</i>	NO. 24087	DATE Sep 23	Series No. 4 of 21




PLAN

Scale 1:500


LEGEND

-  New pavement to be constructed. Refer Pavement Type 1 Details.
-  New pavement to be constructed. Refer Pavement Type 2 Details.
-  New concrete floodway to be constructed. Refer Standard Drawing CMDG-R-094

PAVEMENT TYPE 1 DETAILS

-  New pavement to be constructed
- 200mm Overlay, Full width,
- Imported Unsealed Pavement Material **
- Design Subgrade CBR 3 (soaked)
- 200mm Total thickness

PAVEMENT TYPE 2 DETAILS

-  New pavement to be constructed
- 200mm Stabilised Base, Full Width,
- Imported Unsealed Pavement Material **
- Insitu stabilised, GB binder (Cement/Fly Ash)
- Target UCS value 1 - 2 MPa at 7 Days. Contractor to undertake additive testing to confirm percentage of stabilising agent by mass. A nominal 3% by mass used for estimating purposes only.
- Subgrade replacement in cut ***
- Design Subgrade CBR 3 (soaked)
- 200mm Total thickness

PAVEMENT DESIGN
(Lower Order Roads Design Guide)

Design Period: 20 Years
Design Traffic: 8.66 x 10⁴ DESA
Design Subgrade CBR: 3 (Soaked)

150mm Subgrade Replacement, Class A1 or B material per MRTS04. Minimum 4-day Soaked CBR 15. Maximum Swell 1.5%. CombiGrid Composite Geogrid (or approved equivalent) to underside of subgrade replacement. As directed by the Administrator.

UNSEALED PAVEMENT SPECIFICATION**
(Lower Order Roads Design Guide)

Imported Unsealed Pavement Material to satisfy the following specifications

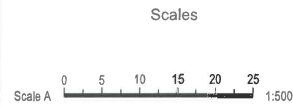
Grading Coefficient (Gc): 16 - 34
Shrinkage Product (Sp): 100 - 240
WPI: < 1200
PI: ≥ 7%
Passing 0.075mm Sieve: ≥ 15%

All works to be carried out in accordance with the relevant CMDG Construction Specifications unless noted otherwise.

**WARNING!
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Last Modified -> Sep 26, 2023 - 8:49am



Dimensions shown in metres
except where shown otherwise



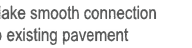
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Title						Job No.	CRC00311
HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE PAVEMENT PLAN						Drawing No.	500
Drawn B. Doherty	ENGINEERING CERTIFICATION (RPEQ)					Revision	A
	ENG. AREA	NAME	SIGNATURE	NO.	DATE		
Designed B. Doherty	Civil	T. Penrose		24087	Sep 23	Series No.	5 of 21

The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.

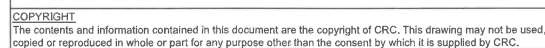



Scales

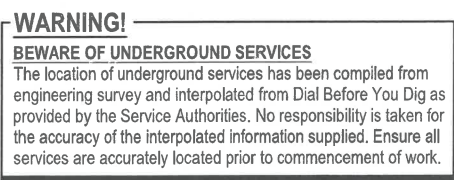
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Scale B  1:50

Dimensions shown in metres
except where shown otherwise

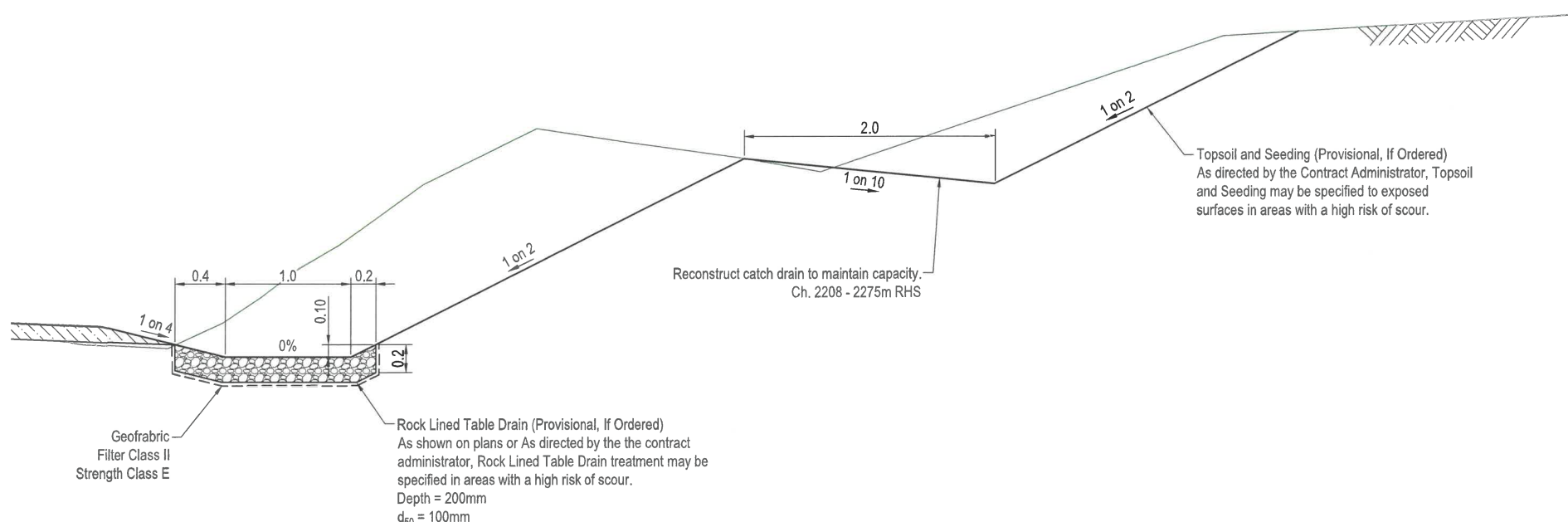


Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE LONGITUDINAL SECTION						Job No.	CRC00311
						Drawing No.	600
Drawn B. Doherty	ENGINEERING CERTIFICATION (RPEQ)					Revision	A
Designed B. Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE		
	Civil	T. Penrose		24087	Sep 23	Series No.	6 of 21

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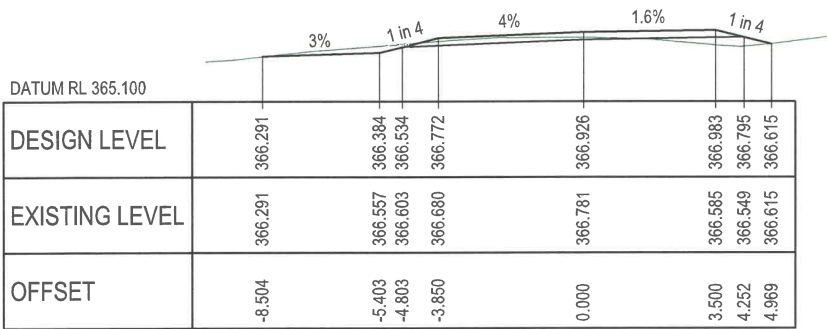
Ch. START - END (MC10)
(Excluding Floodway)
Not to Scale

- | | |
|----|--|
| * | X-fall varies. Refer working plan for details. |
| ** | Width varies at curve widening, formation widening and transitions to existing. Refer 400 and 800 series drawings for details. |
| Δ | Refer 1600 series plans for Limit of Clearing details. |

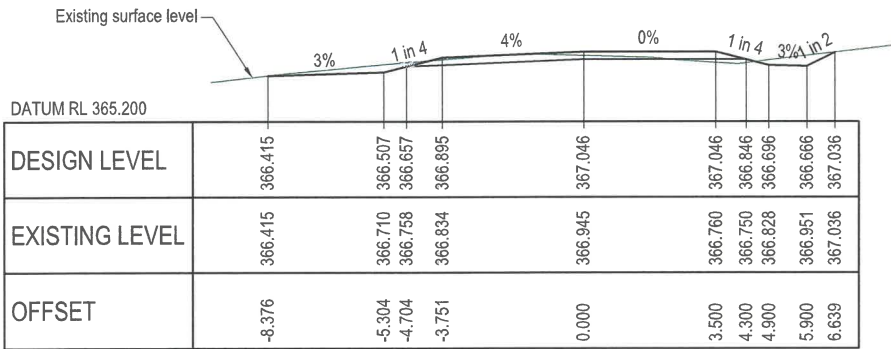


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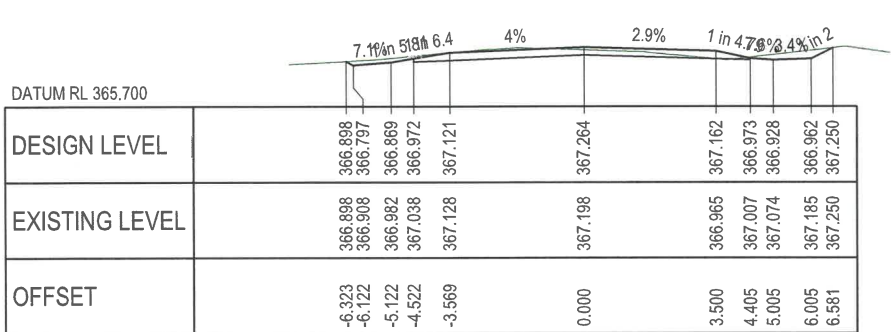
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														<p>Drawing No.</p> <p>700</p>																				
A Issued for Construction									<p>ENGINEERING CERTIFICATION (RPEQ)</p> <table><tr><th>ENG. AREA</th><th>NAME</th><th>SIGNATURE</th><th>NO.</th><th>DATE</th></tr><tr><td>Civil</td><td>T. Penrose</td><td></td><td>24087</td><td>Sep 23</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					ENG. AREA	NAME	SIGNATURE	NO.	DATE	Civil	T. Penrose		24087	Sep 23											<p>Revision</p> <p>A</p>
ENG. AREA	NAME	SIGNATURE	NO.	DATE																														
Civil	T. Penrose		24087	Sep 23																														
20.01 Revisions/Descriptions					Drawn		Approved		Date							<p>Series No.</p> <p>7 of 21</p>																		
Dimensions shown in metres except where shown otherwise																																		



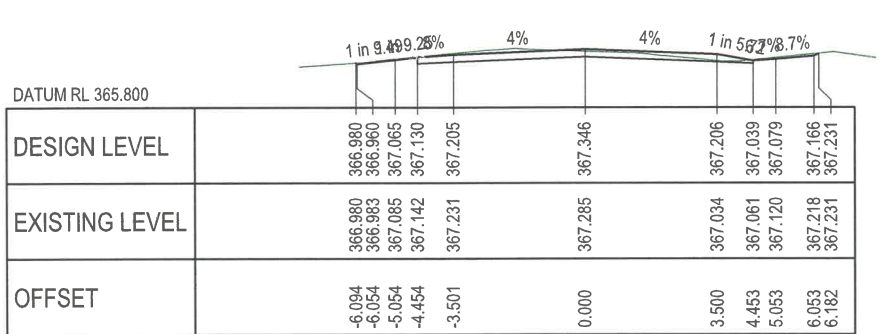
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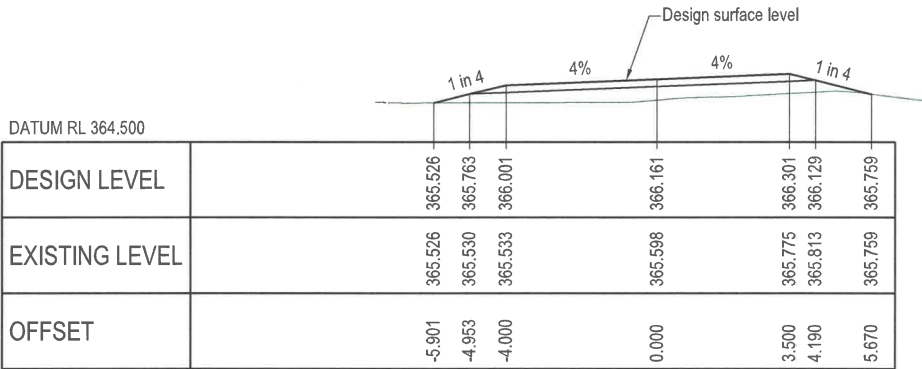
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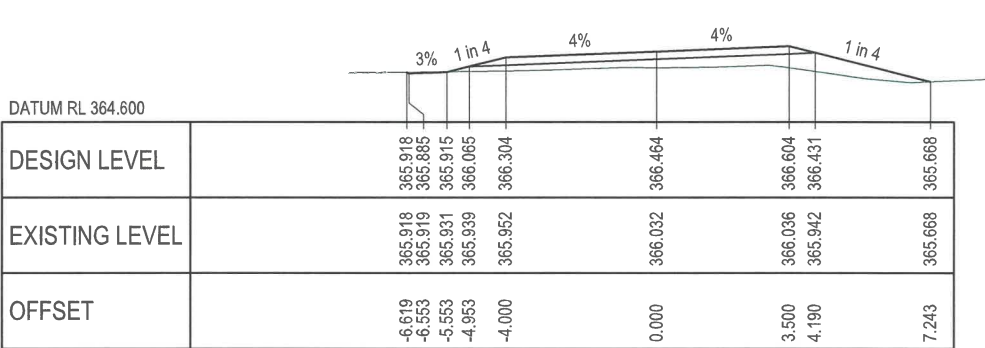
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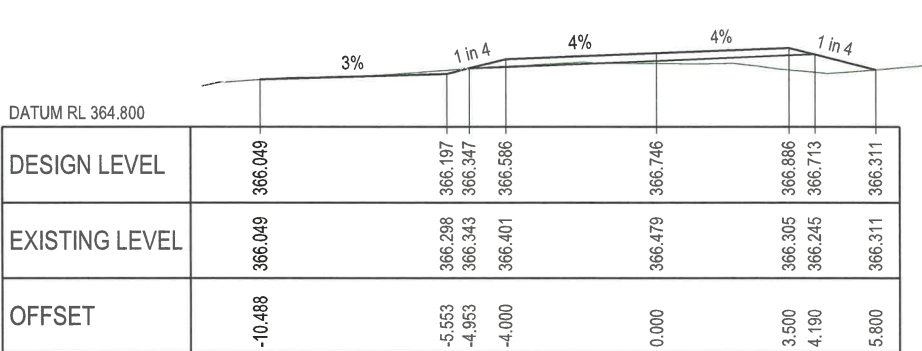
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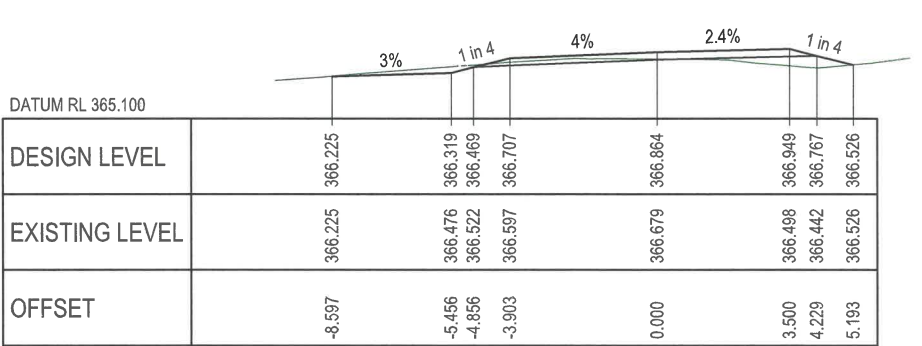
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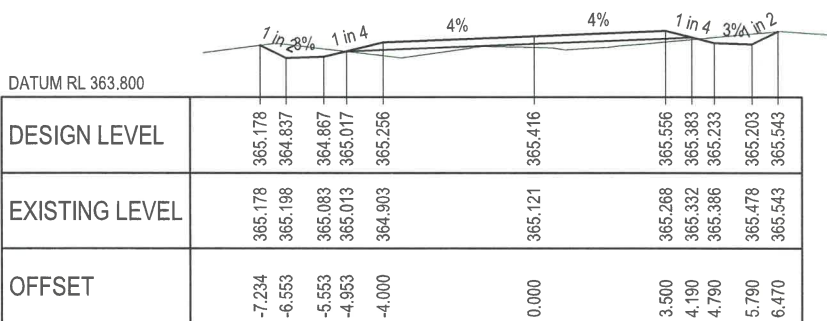
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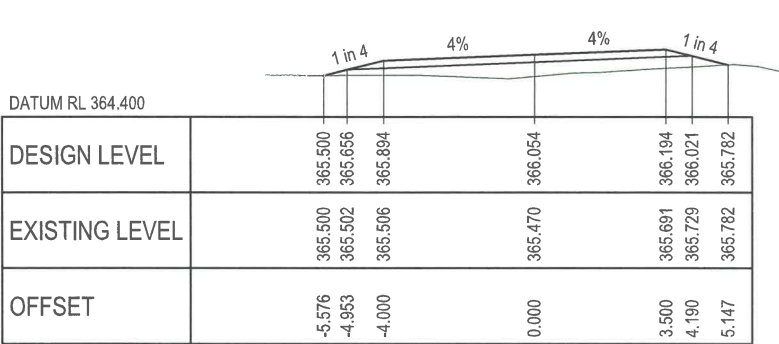
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CH. 2060.000



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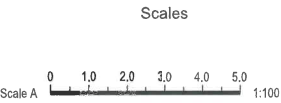


CH. 2100.000

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CROSS SECTIONS

Scale A



Dimensions shown in metres
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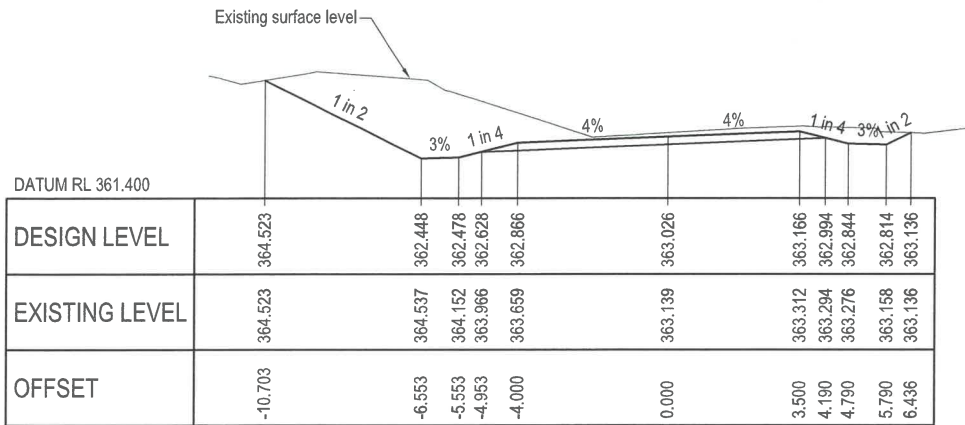


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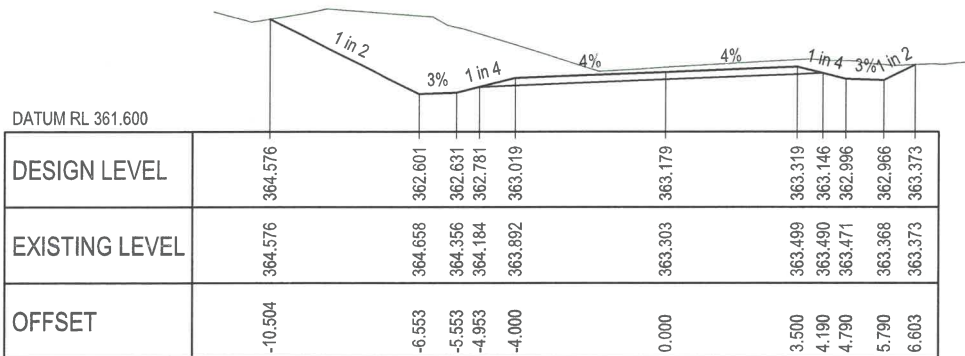


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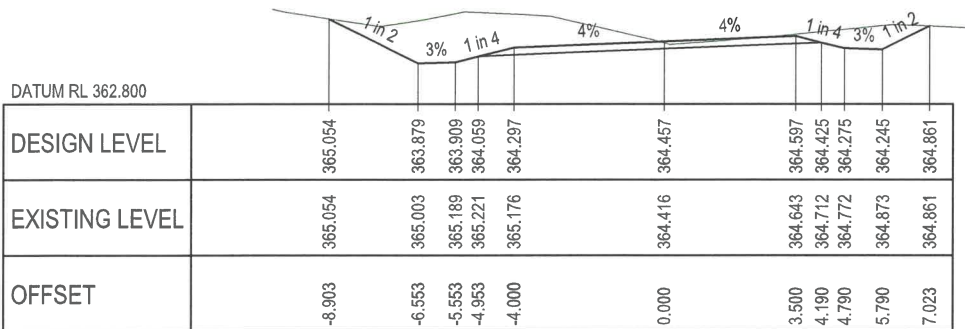
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HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE ANNOTATED CROSS SECTIONS SHEET 1						Drawing No.	800
Drawn	ENGINEERING CERTIFICATION (RPEQ)					Revision	A
	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Series No.	8 of 21
Designed	Civil	T. Penrose		24087	Sep 23		
B. Doherty							



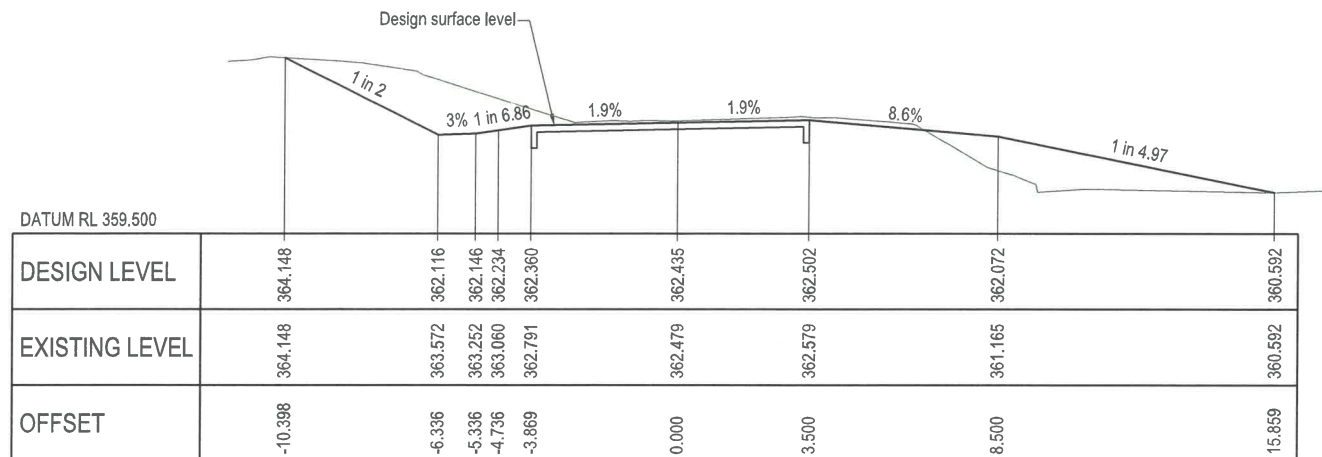
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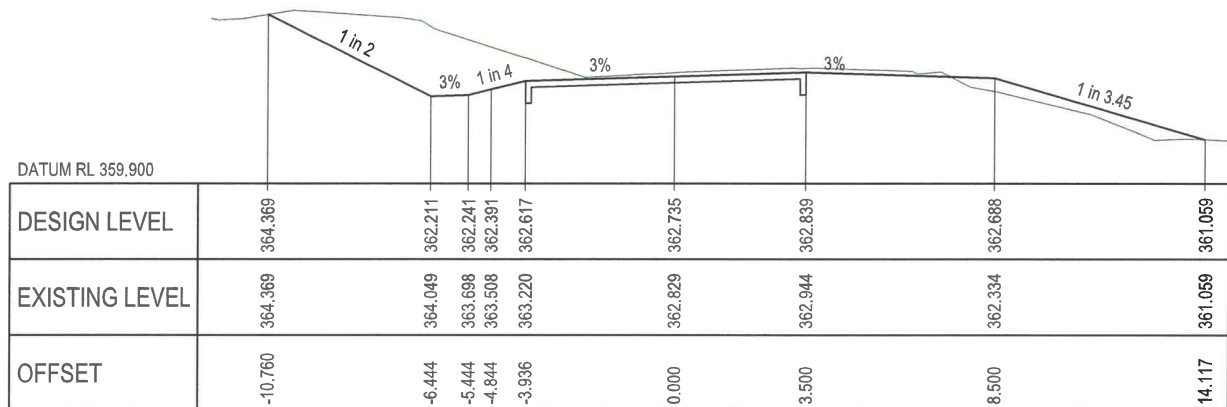
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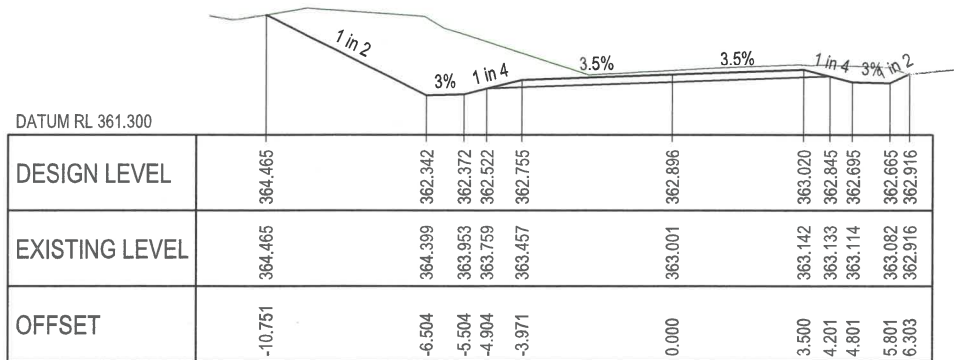
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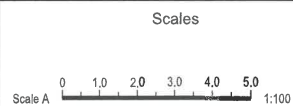


CH. 2163.853

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CROSS SECTIONS

Scale A



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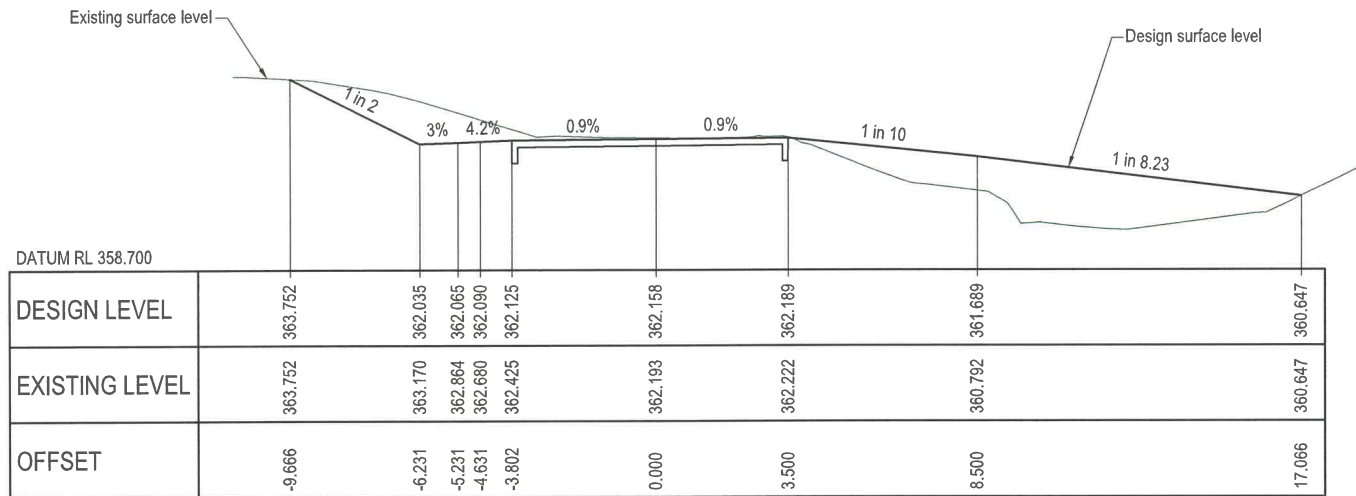


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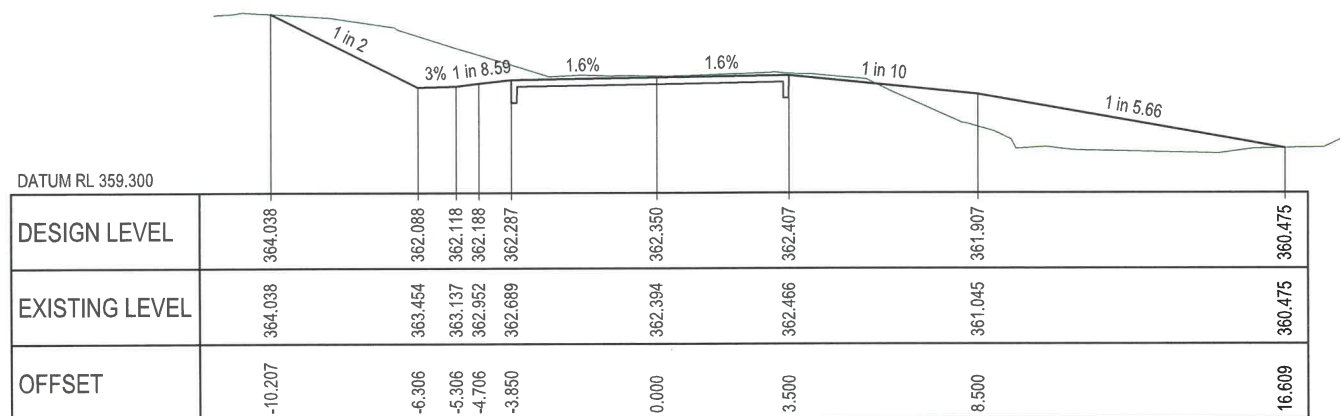


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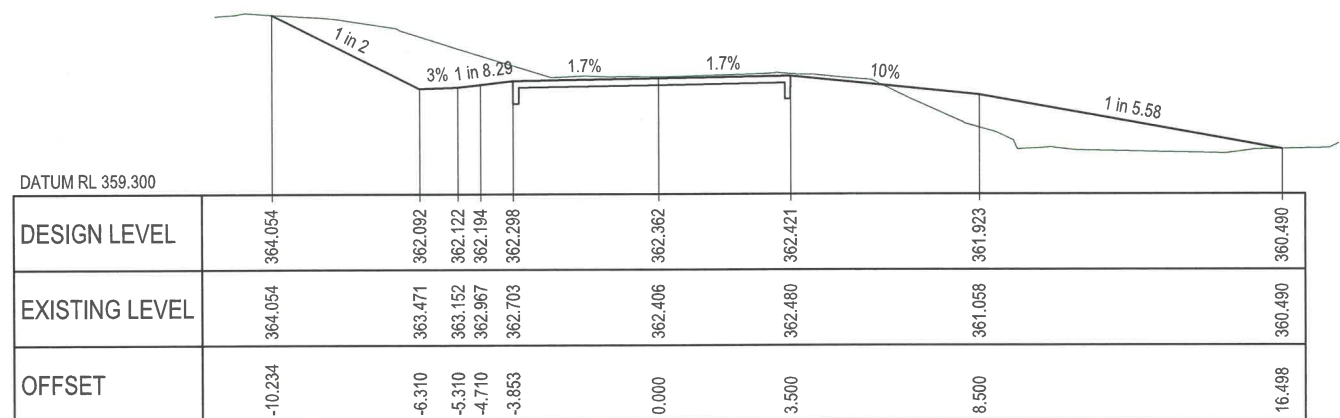
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	ENG. AREA	NAME	SIGNATURE	NO.	DATE		
B. Doherty	Civil	T. Penrose		24087	Sep 23	Series No.	9 of 21
Designed							
B. Doherty							



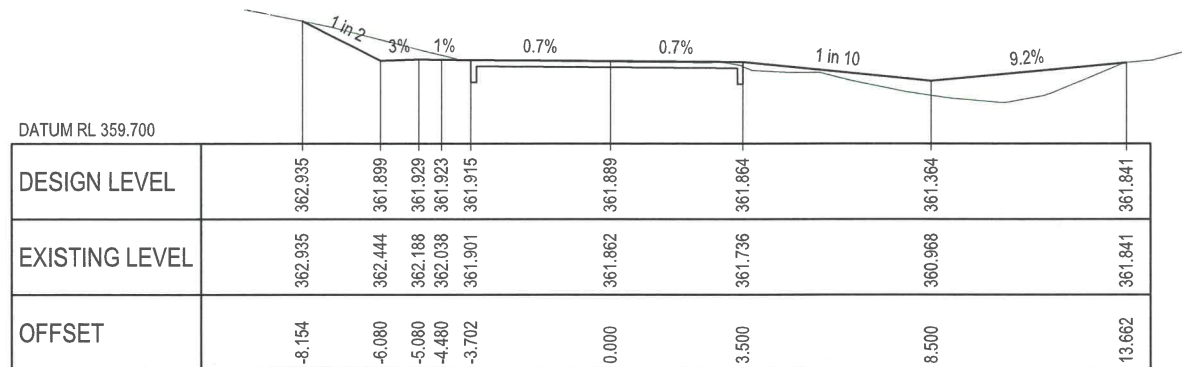
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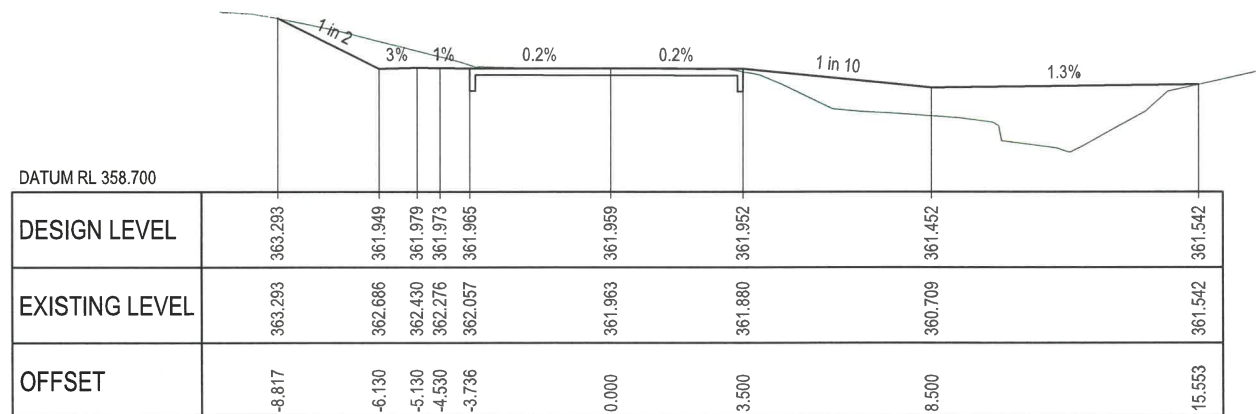
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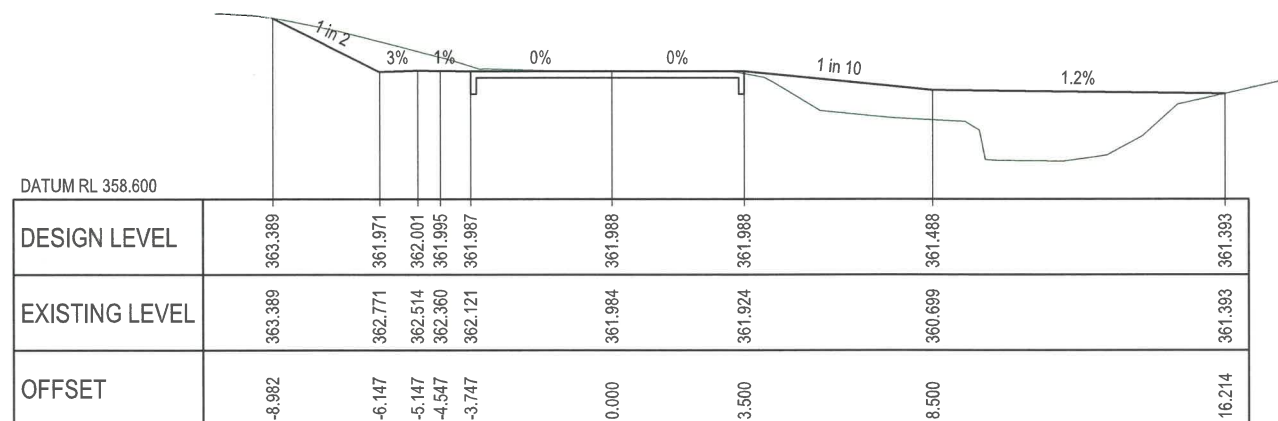
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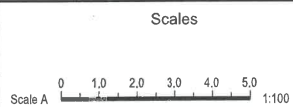
WARNING!

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CROSS SECTIONS

Scale A



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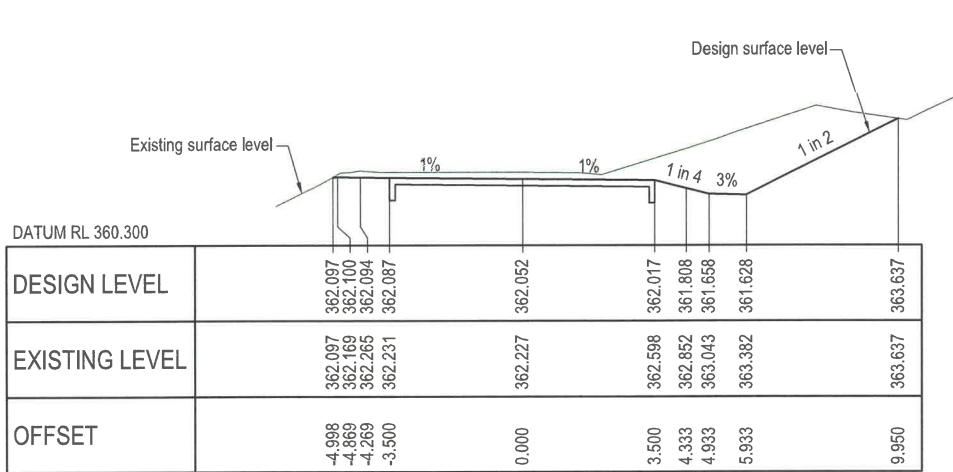
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	ENG. AREA	NAME	SIGNATURE	NO.	DATE		
Designed B. Doherty	Civil	T. Penrose		24087	Sep 23	Series No.	10 of 21



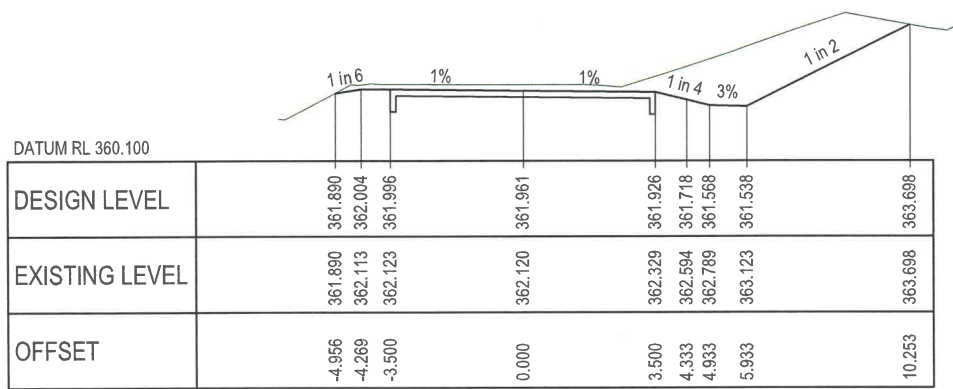
CROSS SECTIONS

Scale A

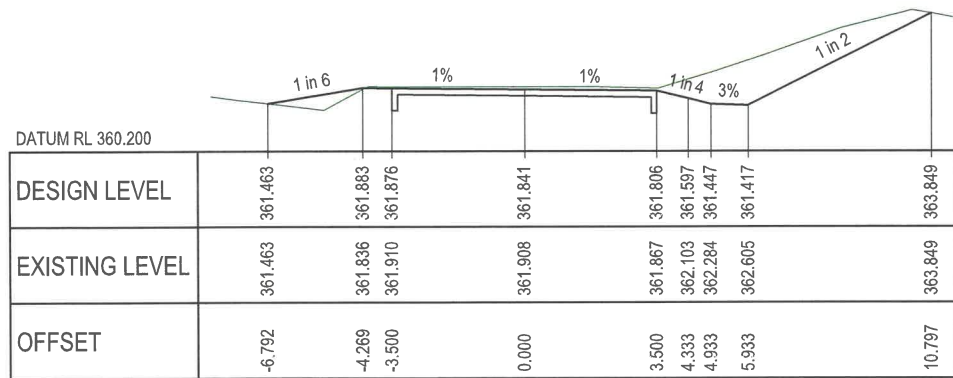
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<div>20.01 Revisions/Descriptions</div>										<div><div>ENGINEERING CERTIFICATION (RPEQ)</div><table><tr><td>ENG. AREA</td><td>NAME</td><td>SIGNATURE</td><td>NO.</td><td>DATE</td></tr><tr><td>Civil</td><td>T. Penrose</td><td></td><td>24087</td><td>Sep 23</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table></div>					ENG. AREA	NAME	SIGNATURE	NO.	DATE	Civil	T. Penrose		24087	Sep 23						<div><div>Series No.</div><div>11 of 21</div></div>	
ENG. AREA	NAME	SIGNATURE	NO.	DATE																											
Civil	T. Penrose		24087	Sep 23																											
					<div><div>Dimensions shown in metres except where shown otherwise</div></div>					<div><div>245 Mary Street, GYMPIE, QLD, 4570 ABN 73 617 924 437 Ph: 0477 322 555</div></div>					<div><div>COPYRIGHT</div><div>The contents and information contained in this document are the copyright of CRC. This drawing may not be used, copied or reproduced in whole or part for any purpose other than the consent by which it is supplied by CRC.</div></div>																



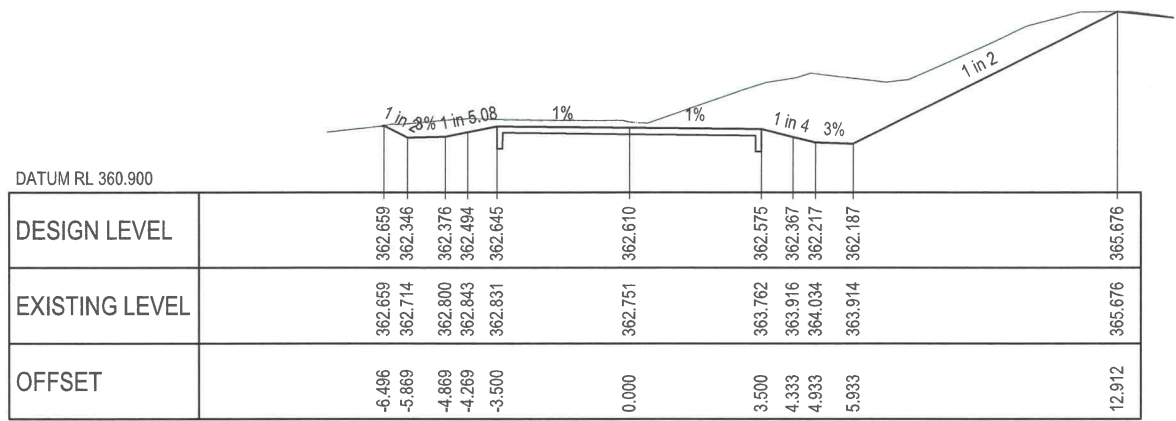
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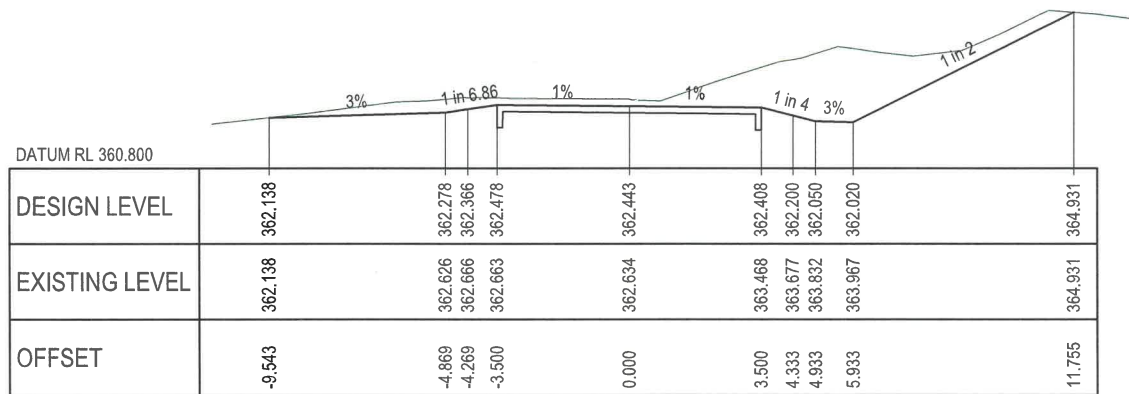
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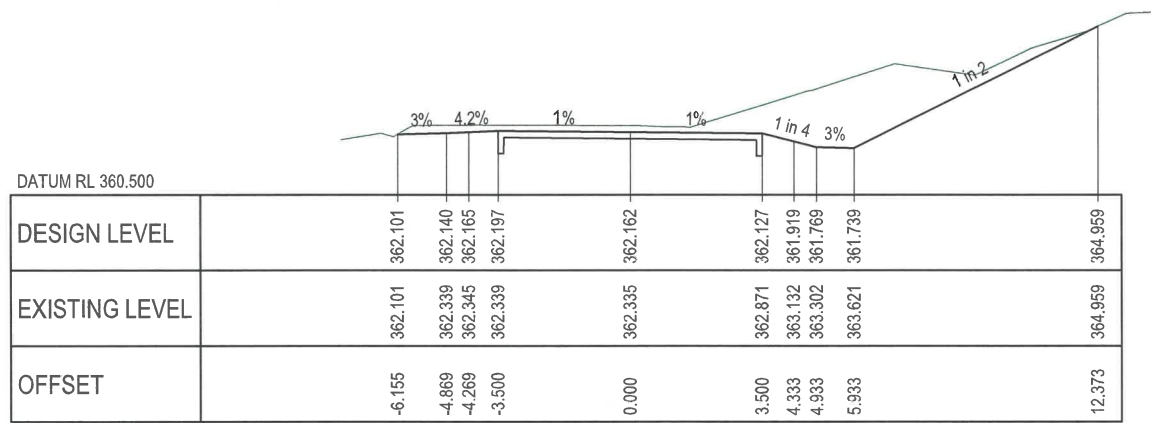
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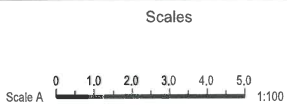


CH. 2202.000

WARNING!
BEWARE OF UNDERGROUND SERVICES
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CROSS SECTIONS

Scale A



Dimensions shown in metres
except where shown otherwise



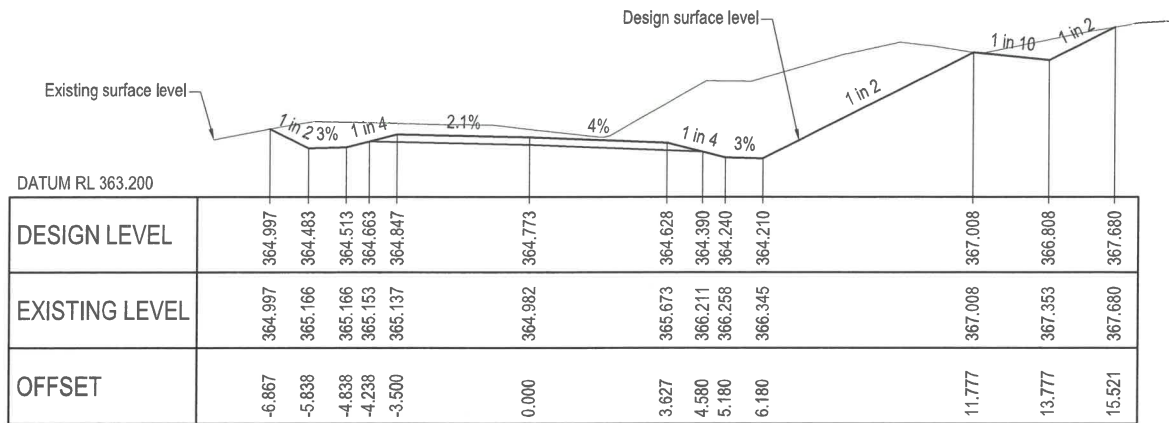
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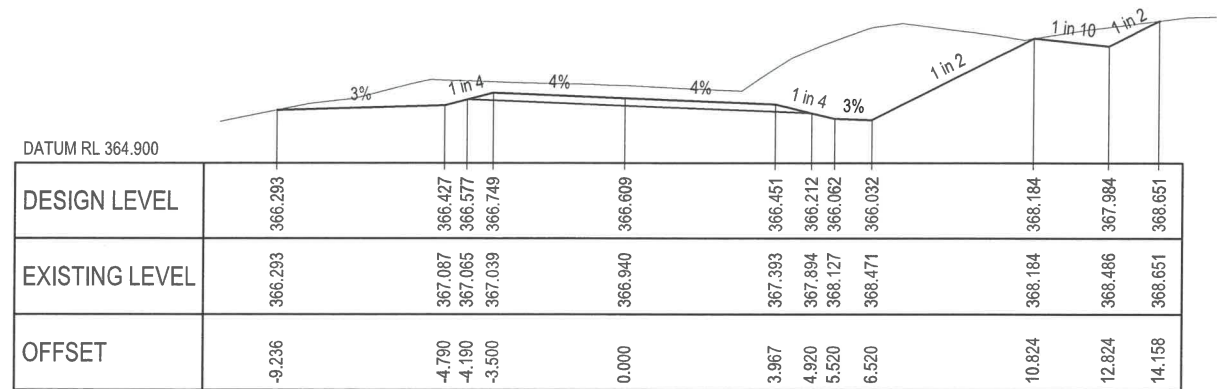
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Drawn B. Doherty						Drawing No.	804
Designed B. Doherty						Revision	A
						Series No.	12 of 21

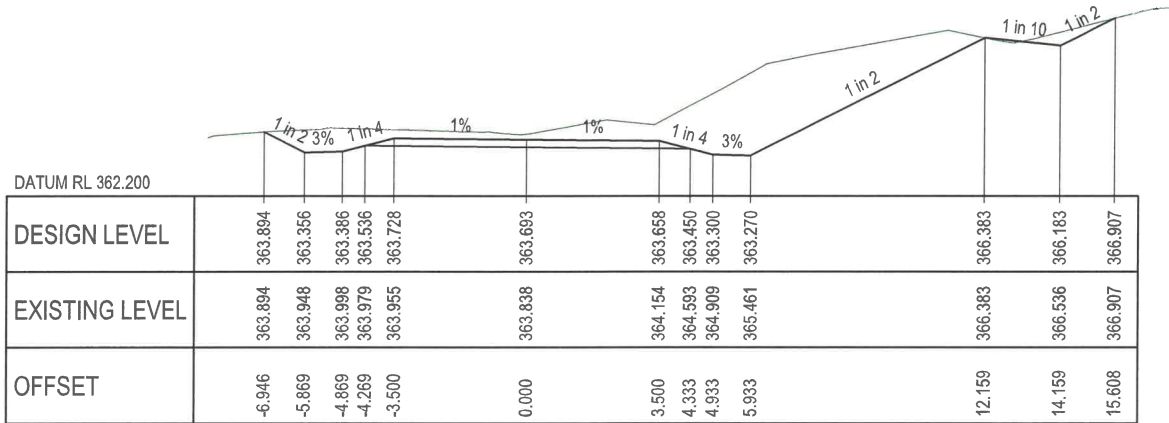
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ENG. AREA	NAME	SIGNATURE	NO.	DATE
Civil	T. Penrose		24087	Sep 23



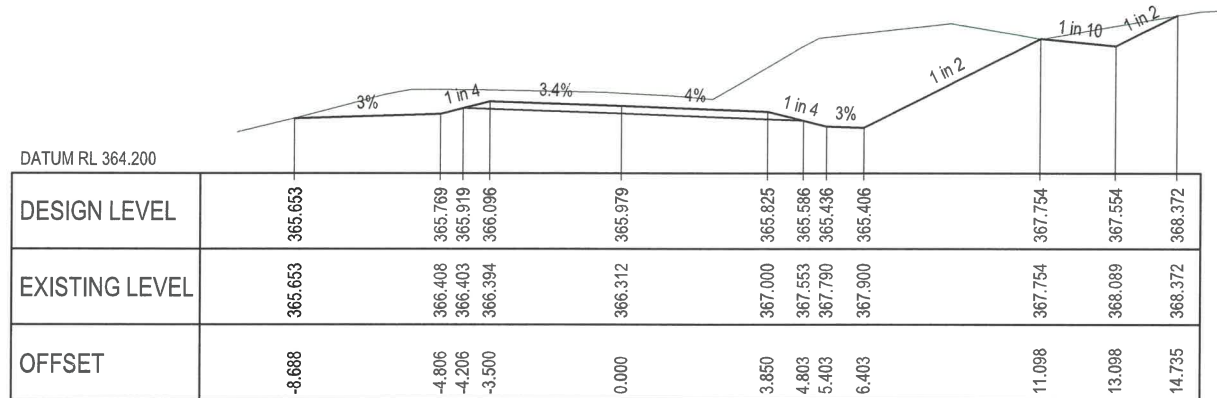
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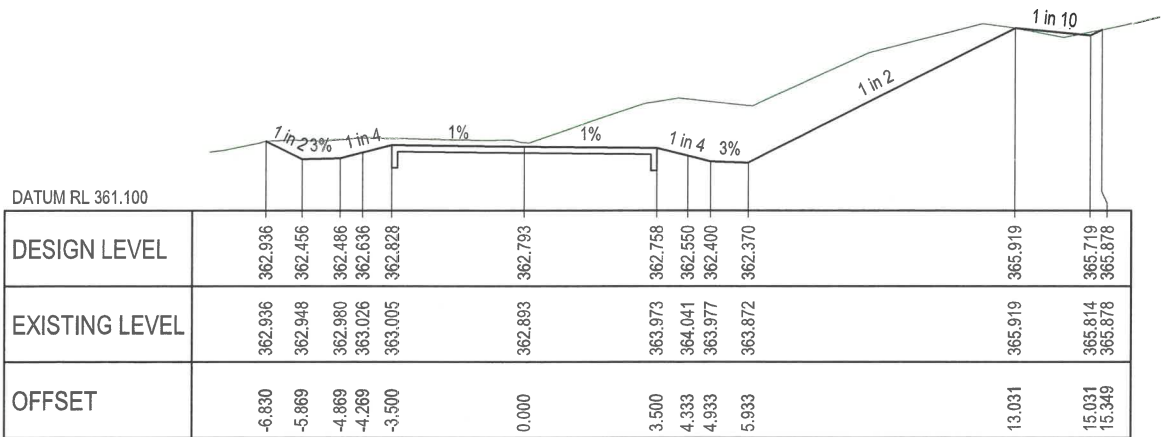
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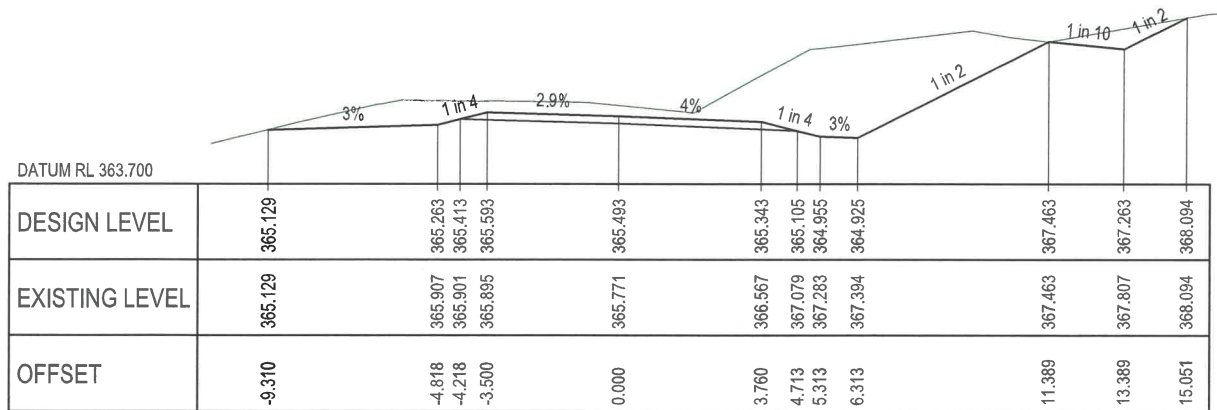
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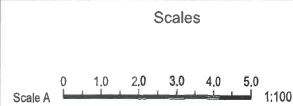


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CROSS SECTIONS

Scale A




Dimensions shown in metres
except where shown otherwise



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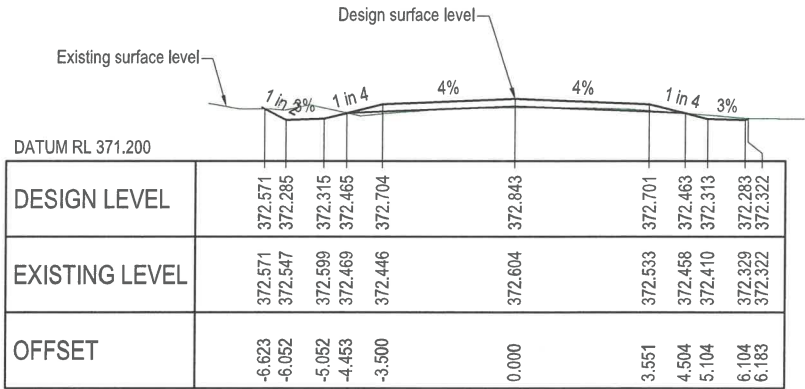


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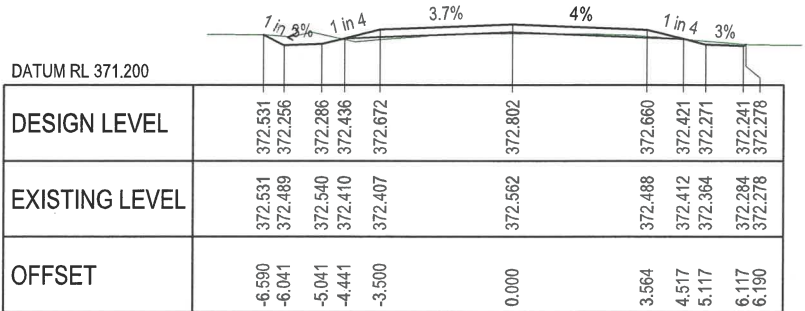
Title						Job No.	CRC00311
HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE ANNOTATED CROSS SECTIONS SHEET 6						Drawing No.	805
Drawn	ENGINEERING CERTIFICATION (RPEQ)					Revision	A
B. Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Series No.	13 of 21
Designed	Civil	T. Penrose		24087	Sep 23		
B. Doherty							

The location of underground services has been compiled from engineering survey and interpolated from Dial Before You Dig as provided by the Service Authorities. No responsibility is taken for the accuracy of the interpolated information supplied. Ensure all services are accurately located prior to commencement of work.

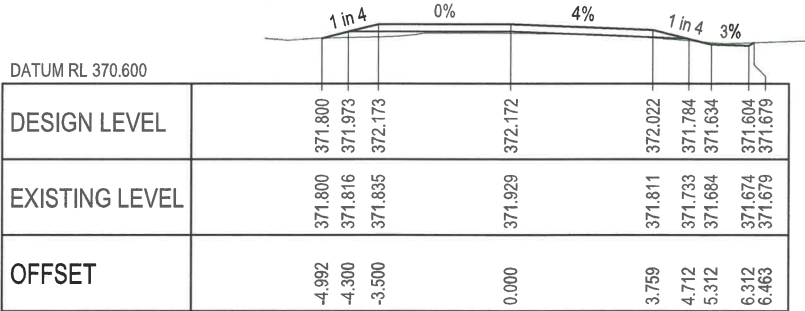
Series No. 14 of 21



CH. 2340.800



CH. 2340.000

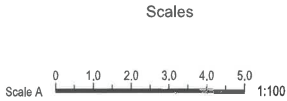


CH. 2328.300

WARNING!
BEWARE OF UNDERGROUND SERVICES
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CROSS SECTIONS

Scale A



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Client



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Title

HARSANTS ROAD, GREVILLEA CREEK
ROAD AND FLOODWAY UPGRADE
ANNOTATED CROSS SECTIONS SHEET 8

Drawn

B Doherty

Designed

B Doherty

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA

Civil

NAME

T Penrose

SIGNATURE

NO.

24087

DATE

Sep 23

Job No.

CRC00311

Drawing No.

807

Revision


A

Series No.

15 of 21

CHAINAGE (M)	POSITION	SIGN DESCRIPTION	SIGN TYPE	WORK DESCRIPTION	SIGN DETAILS					STIFFENER DETAILS				NEW SUPPORT DETAILS							NEW FOOTING DETAILS			
					WIDTH (mm)	HEIGHT (mm)	AREA (m²)	OFFSET FROM CARRIAGEWAY (mm)	HEIGHT ABOVE CARRIAGEWAY (mm)	TYPE	No.	SPACING (mm)	No. OF BRACKETS	TYPE	No.	SPACING (mm)	DIMENSION (mm) NB	MATERIAL	POST LENGTH 1 (mm)	POST LENGTH 2 (mm)	SLEEVE LENGTH (mm)	SLEEVE SIZE (mm)	DIA. (mm)	DEPTH (mm)
1890	LHS	Guide, Traffic Instruction	G9-9A	Install New	1500	750	1.125	2000	1500	1	3	350	6	Aluminum extrusion	2	1200	50	Signfix Sign Support (or equivalent)	6500 (C.T.S.)	6500 (C.T.S.)	As per manufactures specifications		300	750
1950	LHS	Warning, Reverse Curve	W1-4LB	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2034	LHS	Warning, floodway	W5-7-1B	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2084	LHS	Guide, 'GREVILLEA CK'	G6-2	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2097 - 2169 at 12m spacings	RHS	CAM	D4-6B (L)	Install New (x7)	750	900	0.63	2000	1200	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2134	LHS	Guide, "Road Subject to Flooding"	G9-21-1	Install New	2150	800	1.7200	2000	1500	1	3	350	6	CHS Steel	2	1500	50	C350	3500 C.T.S	3500 C.T.S	-	-	300	300
2186	LHS	Guide, Flood depth marker	G9-22-1	Install New																				
2189	RHS	Guide, Flood depth marker	G9-22-1	Install New																				
2243	RHS	Guide, "Road Subject to Flooding"	G9-21-1	Install New	2150	800	1.7200	2000	1500	1	3	350	6	CHS Steel	2	1500	50	C350	3500 C.T.S	3500 C.T.S	-	-	300	300
2245 - 2281 at 12m spacings	LHS	CAM	D4-6B (L)	Install New (x4)	750	900	0.63	2000	1200	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2293	RHS	Guide, 'GREVILLEA CK'	G6-2	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2343	RHS	Warning, floodway	W5-7-1B	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2430	RHS	Warning, Reverse Curve	W1-4LB	Install New	750	750	0.56	2000	1500	1	0	0	0	CHS Steel	1	-	50	C350	3500 C.T.S	-	-	-	300	750
2490	RHS	Guide, Traffic Instruction	G9-9A	Install New	1500	750	1.125	2000	1500	1	3	350	6	Aluminum extrusion	2	1200	50	Signfix Sign Support (or equivalent)	6500 (C.T.S.)	6500 (C.T.S.)	As per manufactures specifications		300	750



PAVEMENT MARKING TYPES				
No.	TYPE	EXAMPLE	WIDTH	DESCRIPTION
LONGITUDINAL LINES				
C	Barrier Line (Single)		100mm	Continuous (on floodway)

						Scales		 quality people client focused solution driven		 Banana SHIRE SHIRE OF OPPORTUNITY		Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE SUPPLEMENTARY SIGNS AND LINEMARKING DETAILS					Job No. CRC00311						
												Drawing No. 1000											
												Drawn B. Doherty		ENGINEERING CERTIFICATION (RPEQ)			Revision A						
												ENG. AREA Civil		NAME T. Penrose		SIGNATURE 		NO. 24087		DATE Sep 23		Series No. 16 of 21	
A Issued for Construction												Designed B. Doherty											
20.01		Revisions/Descriptions				Drawn		Approved		Date		Dimensions shown in metres except where shown otherwise		245 Mary Street, GYMPIE, QLD, 4570 ABN 73 617 924 437 Ph: 0477 322 555		COPYRIGHT The contents and information contained in this document are the copyright of CRC. This drawing may not be used, copied or reproduced in whole or part for any purpose other than the consent by which it is supplied by CRC.							

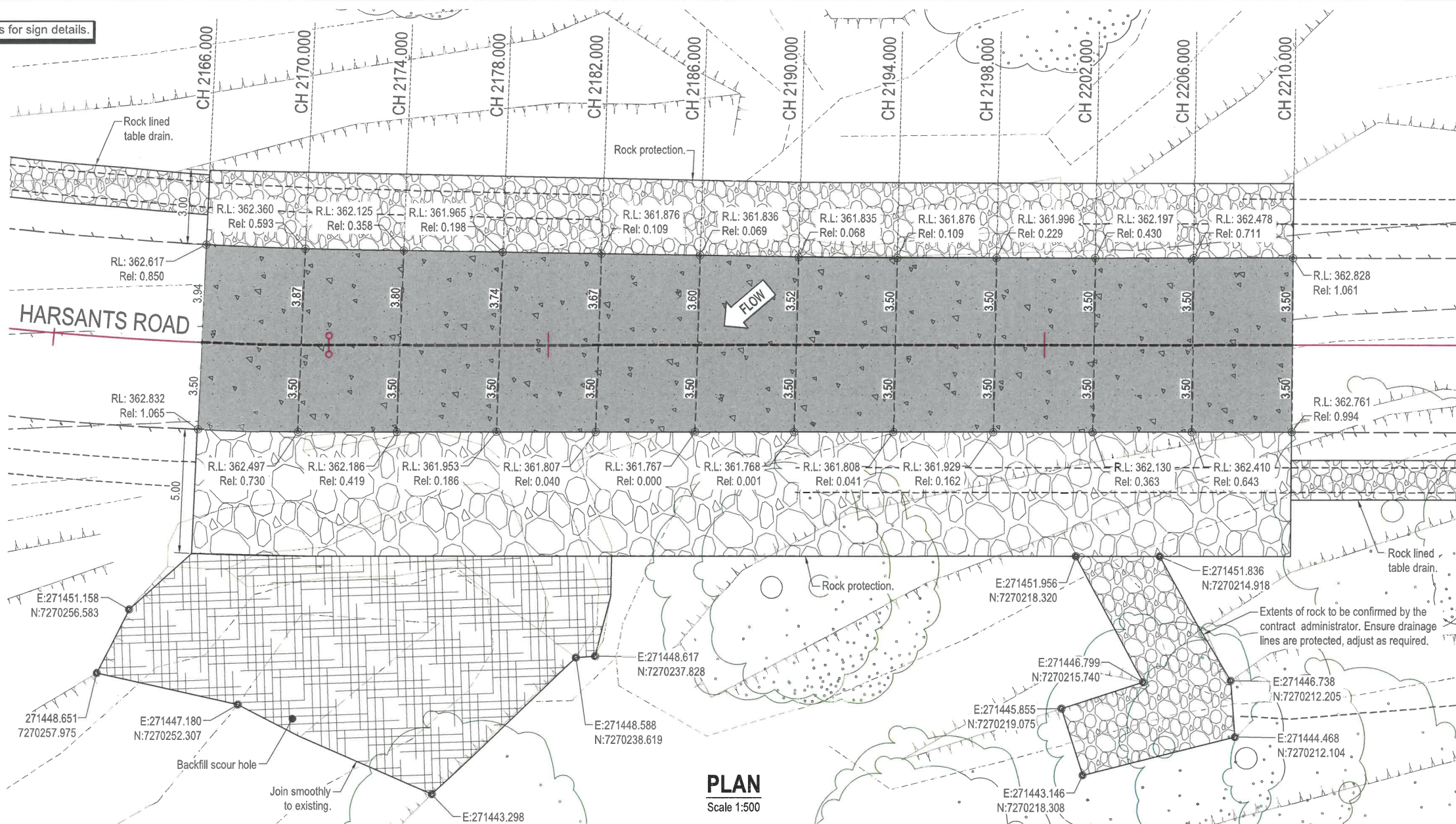
Refer 400 series drawings for sign details.



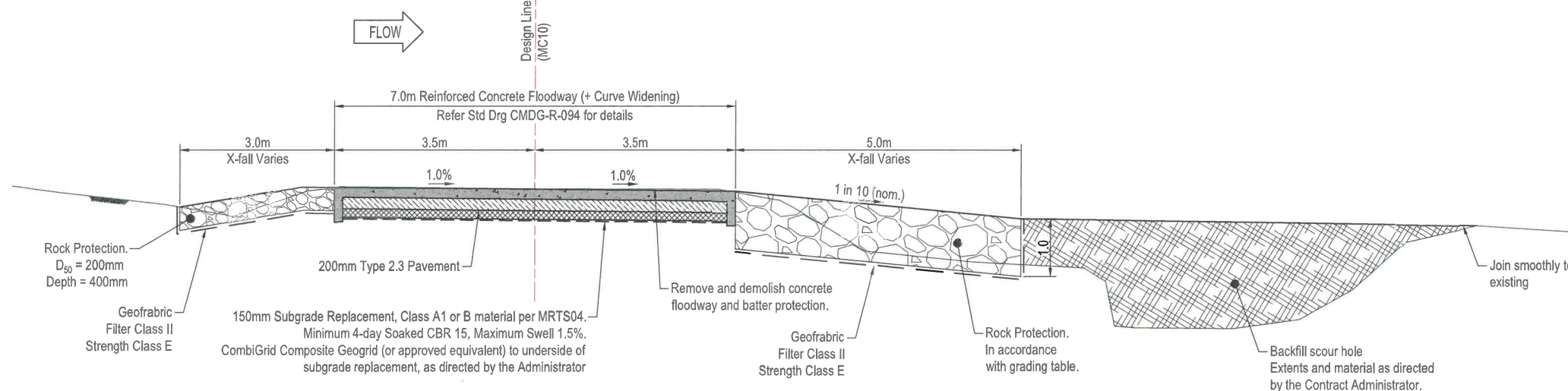
LEGEND

R.L.: Reduced Level AHD
Rel: Height relative to lowest point on floodway

WARNING!
BEWARE OF UNDERGROUND SERVICES
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PLAN
Scale 1:500



TYPICAL CROSS SECTION B

Chge 2166.000 - 2210.000 (MC10 - Floodway)
Not to Scale

ROCK PROTECTION GRADING DETAILS

Rock Size (m)	Rock Mass (kg)	Percentage of rock larger than.
0.75	500.0	0%
0.55	250.0	50%
0.30	35.0	90%

Scales



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Title
**HARSANTS ROAD, GREVILLEA CREEK
ROAD AND FLOODWAY UPGRADE
FLOODWAY DETAILS**

Drawn	ENGINEERING CERTIFICATION (RPEQ)				
	ENG. AREA	NAME	SIGNATURE	NO.	DATE
B. Doherty	Civil	T. Penrose		24087	Sep 23
Designed					
B. Doherty					

Job No.	CRC00311
Drawing No.	1200
Revision	A
Series No.	17 of 21

XREFS: - X_CRC_BSC_TITLE.dwg; X_CONTROL.dwg; X_SURVEY.dwg; X_DESIGN.dwg; X_HATCH.dwg

Last Modified: - Sep 26, 2023 - 8:49am

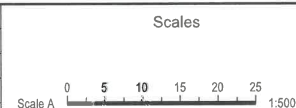


CHAINAGE	OFFSET LHS	OFFSET RHS
2255	6.417	10.039
2265	6.595	8.949
2275	6.487	8.167
2285	8.692	6.940
2295	5.989	6.216
2305	5.451	6.253
2315	4.951	6.098
2325	5.071	5.205
2335	4.948	5.216
2345	6.489	5.629

LEGEND

- Tree to be removed
- Limit of clearing

A	Issued for Construction			
20.01	Revisions/Descriptions	Drawn	Approved	Date



Dimensions shown in metres
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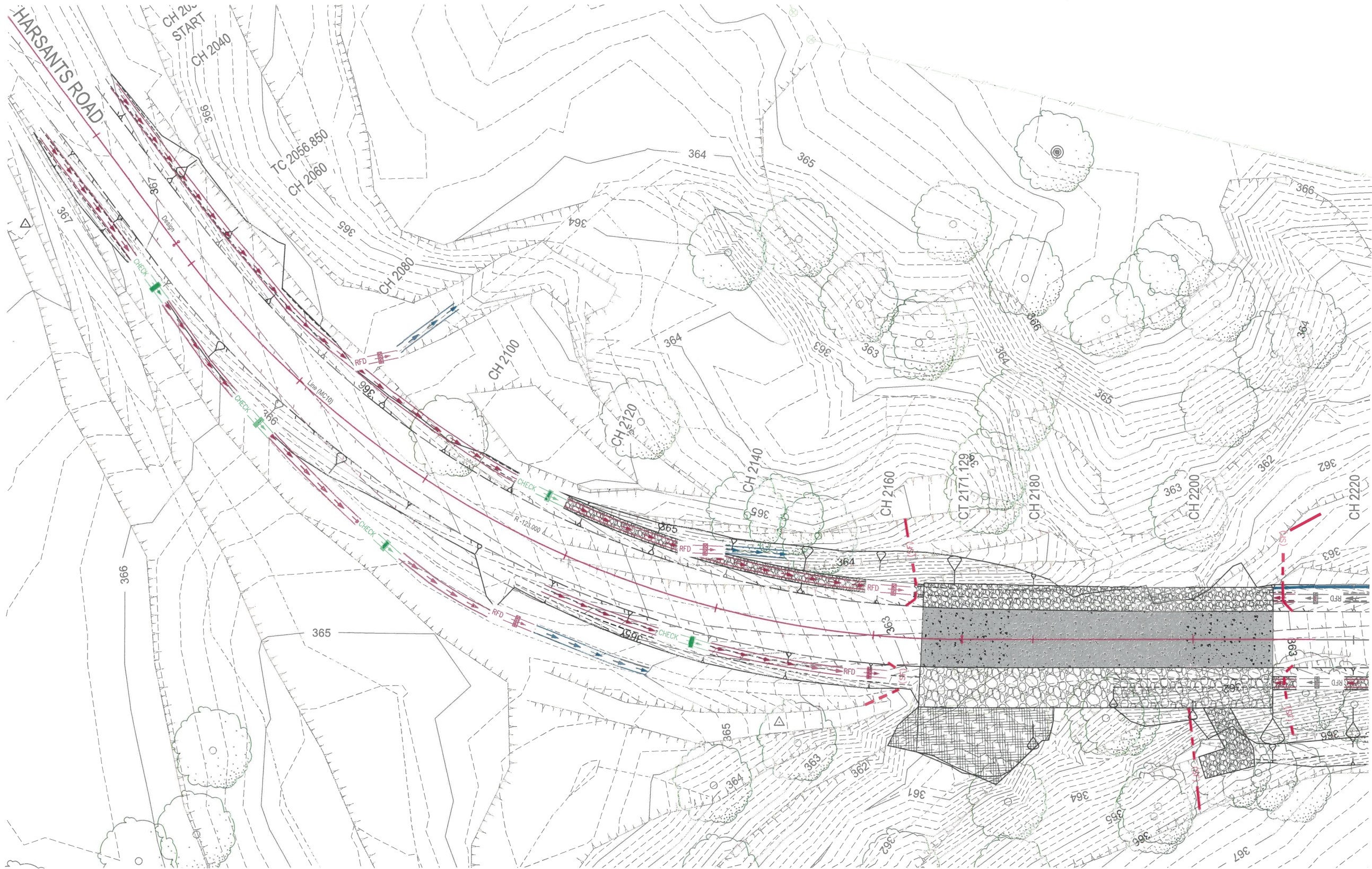


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 ARN 73 617 924 437 Ph: 0477 322 555



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Title	HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE LIMIT OF CLEARING PLAN					Job No.	CRC00311
						Drawing No.	1600
Drawn	ENGINEERING CERTIFICATION (RPEQ)					Revision	A
B. Doherty	ENG. AREA	NAME	SIGNATURE	NO.	DATE		
Designed	Civil	T. Penrose		24087	Sep 23	Series No.	18 of 21
B. Doherty							



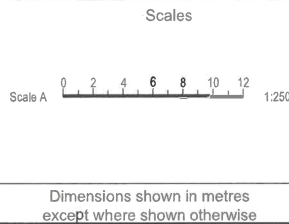
PLAN
Scale 1:250

- LEGEND**
- Diversion Bank
 - Silt Fence (SF)
 - Geo Log
 - Dirty Water Flow
 - Clean Water Flow
 - Rock Check Dam
 - End of line rock check dam (to act as rock filter dam)
 - Existing Trees

XREFS: - X_CRC_BSC_TITLE.dwg; X_DESIGN.dwg; X_SURVEY.dwg; X_CONTROL.dwg; X_HATCH.dwg; X_ENS.dwg; X_TADPOLES.dwg; X_ENS_CONTOURS.dwg

Last Modified: - Sep 26, 2023 - 8:50am

Revisions/Descriptions					Drawn	Approved	Date
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20.01							



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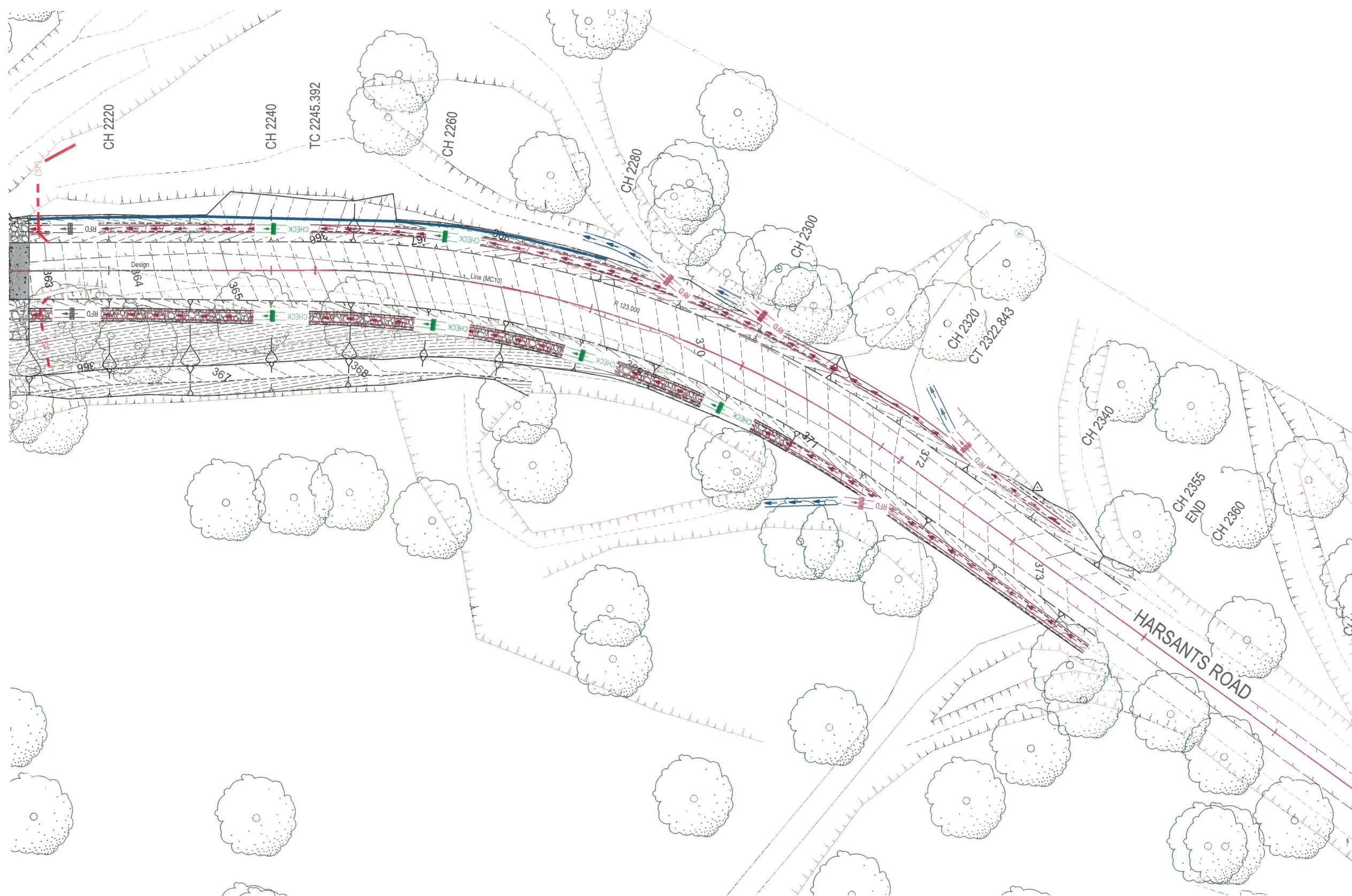
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Banana SHIRE
SHIRE OF OPPORTUNITY

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Title HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE TEMPORARY EROSION AND SEDIMENT CONTROL SHEET 1						Job No.	CRC00311
Drawn B Doherty						Drawing No.	1700
Designed B Doherty						Revision	A
						Series No.	19 of 21

ENGINEERING CERTIFICATION (RPEQ)					
ENG. AREA	NAME	SIGNATURE	NO.	DATE	
Civil	P. Meredith		15268	Sep 23	

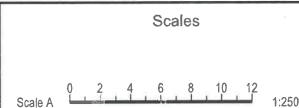


PLAN
Scale 1:250

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ast Modified :- Sep 26, 2023 - 8:50am

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20.01	Revisions/Descriptions	Drawn	Approved	Date



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	Title
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Title	HARSANTS ROAD, GREVILLEA CREEK ROAD AND FLOODWAY UPGRADE TEMPORARY EROSION AND SEDIMENT CONTROL SHEET 2
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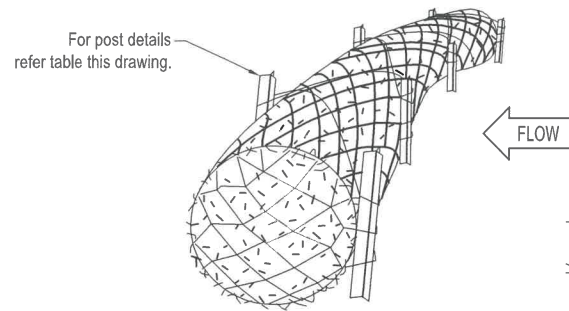
Drawn B Doherty	ENGINEERING CERTIFICATION (RPEQ)				
	ENG. AREA	NAME	SIGNATURE	NO.	DATE
	Civil	P. Meredith		15268	Sep 23
Designed B Doherty					

Job No.	CRC00311
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Drawing No.	1701
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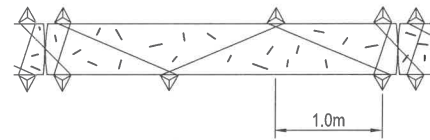
Revision	A
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Series No.	20 of 21
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TYPICAL ANCHORAGE OF GEO LOG

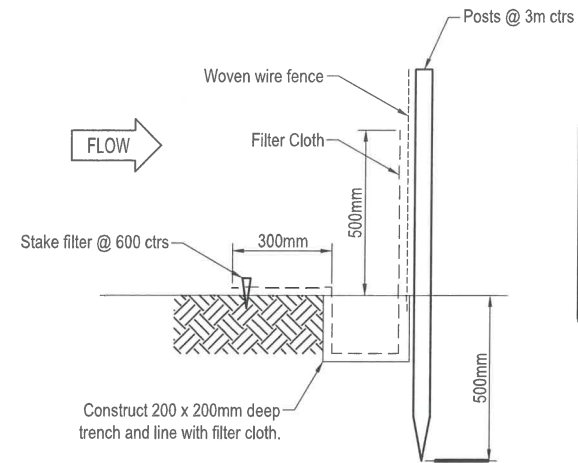
Geo Log to be installed in accordance with IECA
Sediment and Erosion Control Design Fact
Sheets - Instream Practices



PLAN GEO-LOG STAKING METHOD

MATERIALS

MATERIAL	TYPE
Posts (either)	1.5kg/m (min) Steel Star Picket or 1500mm ² (min) Hardwood or 2500mm ² (min) Softwood
Fence	Woven wire 14 gauge 150mm max aperture Filter as specified
Filter Cloth	(terram 100, polyfelt ts500, Bidim u24 or equivalent)
Prefabricated Unit	Geofab, envirofence or approved equivalent



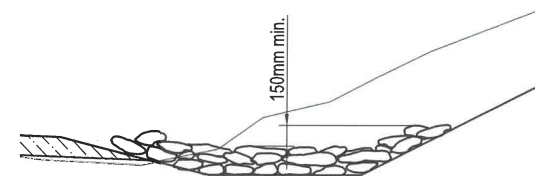
SILT FENCE N.T.S.

Erection Notes

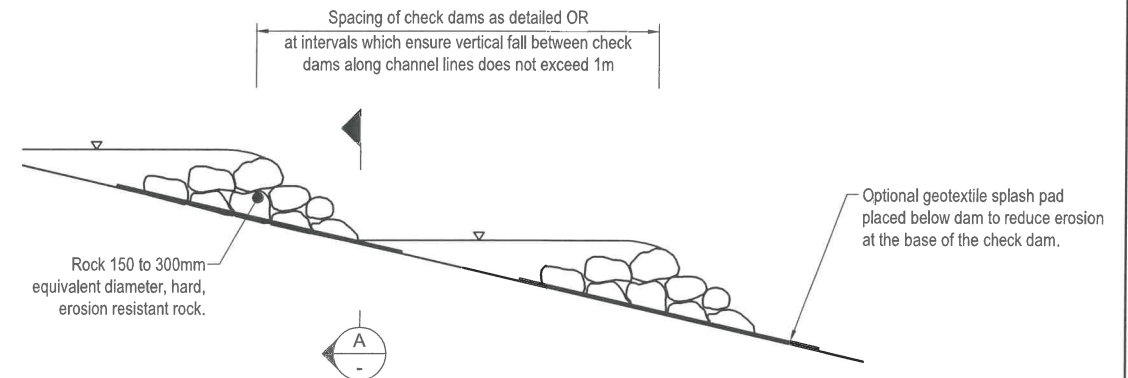
Woven fence to be fastened securely to fence posts with wire ties or staples. Filter cloth to be fastened securely to woven wire fence with teils speaced every 600mm at top of mid section. When two sections of filter cloth adjoin each other they shall be overlapped by 150mm and folded and material removed when bulging of fence occurs.

LEGEND

	Diversion Bank
	Silt Fence
	Geo Log
	Dirty Water Flow
	Clean Water Flow
	Rock Check Dam
	End of line rock check dam (to act as rock filter dam)
	Existing Trees



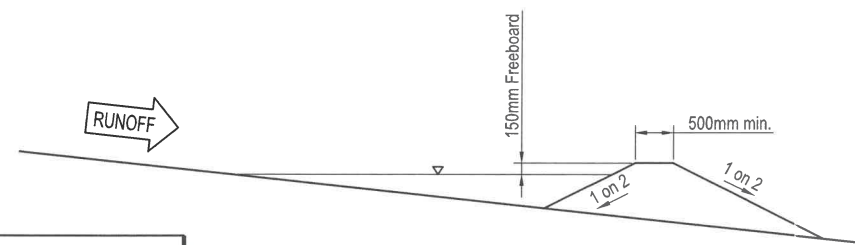
SECTION A



ROCK CHECK DAM

Notes

- Design and construction of all sediment management devices is the contractors responsibility and shall be completed and effective prior to:
 - Stripping of topsoil and grass.
 - Bulk earthworks to the site.
 - Service installations.
- All sediment management devices are to remain in place until notice from the Contract Administrator
- Both temporary and permanent sediment management devices shall be maintained at a suitable level/condition throughout construction. Sediment fences are to be cleaned out when capacity is reduced by 30%.
- If erosion and sediment control devices have been found to be deficient or failed in service, due to unforeseen circumstances, corrective action is to be undertaken immediately which may include amendments/additions to the original approved erosion control plans. such additions or amendments are to be approved by the Contract Administrator.
- All erosion and sediment control devices are to be inspected at least weekly, before and after rainfall events. Any damage or excess erosion/sediment is to be repaired/managed as required to maintain control devices.
- Devices shown on the drawings shall not necessarily be limited to the locations shown. Additional devices may be required as directed by Contract Administrator.
- Rock check dams to be installed per detail this drawing in drainage channels with slopes greater than 2%. Spacing of check dams to be at every 1.0m vertical drop in drainage channel.
- Contract Administrator to order installation of topsoil and grass seeding to disturbed areas.
- The contractor shall ensure all turfed and/or seeded areas are regularly watered to ensure vegetation is maintained until there is 80% coverage.
- Stockpiles shall be protected from erosion and sediment loss by:
 - The installation of diversion works on the upstream side.
 - The use of silt fences or other approved controls on the downstream side.
 - Compaction.
 - Re-vegetation if left exposed for longer than 30 days



DIVERSION BANK

Scales



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Title

HARSANTS ROAD, GREVILLEA CREEK
ROAD AND FLOODWAY UPGRADE
TEMPORARY EROSION AND SEDIMENT CONTROL SHEET 3

Drawn

B Doherty

Designed

B Doherty

ENGINEERING CERTIFICATION (RPEQ)				
ENG. AREA	NAME	SIGNATURE	NO.	DATE
Civil	P. Meredith		15268	Sep 23

Job No.

CRC00311

Drawing No.

1702

Revision

A

Series No.

21 of 21