

DRAWING INDEX

Drawing Number	Date	Drawing Description
001	Sep-24	Project Cover Sheet
002	Sep-24	General Notes
300	Sep-24	Survey Control and Services Plan
400	Sep-24	Roadworks and Setout Plan
500	Sep-24	Pavement Plan
600	Sep-24	Longitudinal Section
700	Sep-24	Typical Cross Sections
800	Sep-24	Annotated Cross Sections Sheet 1
801	Sep-24	Annotated Cross Sections Sheet 2
802	Sep-24	Annotated Cross Sections Sheet 3
1200	Sep-24	Stormwater Drainage Plan
1250	Sep-24	Stormwater Longitudinal Section
1700	Sep-24	Temporary Erosion and Sediment Control Sheet 1
1701	Sep-24	Temporary Erosion and Sediment Control Sheet 2

B	Service Locating Details Undated	23/10/24
D		23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date

lified :-

Last Mod

TEYS ROAD, BILOELA CULVERT UPGRADE

			Culverts Height > 600 Drawing 2 of 3
			Construction of Base Slabs and Aprons
			Culverts Height > 600 Drawing 3 of 3 Installation of Precast Units and Construction of Headwalls & Wingwalls
1359	Е	Culverts	Installation, Bedding and Filling / Backfilling Against / Over Culverts
SIGNS & GUIDE PO	STS		
1356	F	Road Edge Guide Posts	Timber and Tubular Steel Post and Installation Details
GENERAL EARTHW	ORKS	& PROPERTY ACCESS	
1178	Е	Diversion of Water from Re	oadway and Table Drains



MTS - Banana Shire Councila/MIW - Banana Shire CouncilDrawn:Designed:

J. Grimish

L Crimio

J. Grimish

DIS Review - Banana Shire Council Certified:

RPEQ #:



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY





CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINESDrawing NumberRev. DescriptionROADWORKSFranceCMDG-R-017BType Cross Sections Rural RoadsDRAINAGEDCMDG-D-011DExcavation, Bedding and Backfilling of Precast Box Culverts

TEYS ROAD, BILOELA

CULVERT UPGRADE

PROJECT COVER SHEET

Dwg. No.	Sheet	Issue
001	1 of 14	В

SAFETY IN DESIGN NOTES:

- 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. <u>Disclaimer:</u> 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 A 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:

- 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 B.S.C. are to be notified.
- 4. All works are to comply with the requirements of the Environmental Protection Act, 1994.
- 5. The positions shown on drawings for public utilities services are based on the B.Y.D.A. information supplied at time of design and have been located on site. Prior to construction the current Service Authority information is to be obtained from B.Y.D.A. (website: www.byda.com.au). All surveyed positions of public utilities are to be confirmed on site, prior to any excavations.
- 6. Where these drawings make reference to the Administrator or Contract Administrator it shall mean Council's Superintendent managing the works.
- 7. Prior to commencement of work contact the Superintendent if any PSM's are in the vicinity of the work site.
- 8. <u>Order of Precedence of Documents, Ambiguities or Discrepancies -</u> 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. Supplementary Specifications
 - c. Technical Specifications
 - d. Standard Drawings

The 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,

- 9. 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.
- 10. All drawings are to be read in conjunction with the project's specification and all relevant Standard Drawings.
- 11. <u>Materials and workmanship -</u> 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.

- 12. <u>Dimensions / Levels -</u> All levels and setout points shall be confirmed on site by a registered surveyor prior to construction. The Contractor shall seek clarification from the Council's Superintendent for any discrepancy prior to proceeding with works. Dimensions shall not be scaled from drawings.
- 13. <u>Set Out of Individual Installations -</u> The Contractor shall set out the works 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. Council's 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 Council's Superintendent to be appropriate, as determined by Council's 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
- 14. <u>Existing Services -</u> 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.

			Notes:
В	Service Locating Details Updated	23/10/24	
A	Issued For Construction	11/09/24	
lo.	Revision	Date	

Last Mc

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 Council's Superintendent.
- 3. All contaminated soil to be removed in accordance with the specification or as directed by Council's 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.



J. Grimish



RPEQ #:







TEYS ROAD, BILOELA CULVERT UPGRADE

GENERAL NOTES

1	Dwg. No.	Sheet	Issue
	002	2 of 14	В



			Notes:
В	Service Locating Details Updated	23/10/24	
А	Issued For Construction	11/09/24	
No.	Revision	Date	



STATION

LEGEND

101 💿	- Si
C	- C
E	- El







NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



ENGINEERING SURVEY CONTROL

ING	NORTHING	LEVEL	REMARKS			
3.308	7301428.739	166.87	Screw in Conc			
.644	7302998.236	166.654	Orig Sta Picket			
0.539 7303279.294		166.26	Spike in Conc			
.969	7302517.728	165.971	Star Picket			
JRVEY MARKS						
NG	NORTHING	LEVEL	LOCATION			
.074	7302854.774	165.155	Jambin Dakenba Rd			
.859	7302187.032	165.94	Jambin Dakenba Rd			

	100.100	1002004.114	014
Jambin Dakenba Rd	165.94	7302187.032	859
Teys Rd	166.9	7303153.436	849
Tognolini Baldwin Rd	171.202	7301303.576	605
Tognolini Baldwin Rd	168.327	7301393.33	266

די							
	RL @ TOP OF SERVICE	RL @ BOTTOM OF	COVER FROM BOT.	METHOD USED	TYPE OF SERVICE		
	OEINIOE	EXCAVATION	OF BOX				
	164.499	164.995	0.496	Pothole	Comms - Copper		
	164.030	164.994	0.964	Pothole	Comms - Fibre		

¬WARNING!

BEWARE OF AERIAL SERVICES

Survey Mark and Label

Comms

Electrical - Aerial

Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.

¬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.

TEYS ROAD, BILOELA

CULVERT UPGRADE

SURVEY CONTROL AND SERVICES PLAN

			Dwg. No.	Sheet	Issue
5 10 15	20 25	6 (A1) 1:500	300	3 of 14	В



BEWARE OF AERIAL SERVICES Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.

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.

			Notes:
В	Service Locating Details Updated	23/10/24	
А	Issued For Construction	11/09/24	
No.	Revision	Date	

PLAN Scale A



MTS - Banana Shire Council a/ Drawn: Drawn: Drawn:

a/MIW - Banana Shire Council Designed:

J. Grimish

DIS Review - Banana Shire Council Certified:

RPEQ^{*}#:



02

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY





TEYS ROAD, BILOELA CULVERT UPGRADE ROADWORKS AND SETOUT PLAN Output: 15 20 25 (A1) Dwg. No. Sheet Issue 400 4 of 14 B



PAVEMENT DETAILS

	New pavement to be constructed						
	Seal (see notes)						
	Initial Seal (see notes)						
14mm	S45R Seal						
10mm	AMC7 Initial Seal						
200mm	Type 2.1 Lightly Bound Base						
	UCS 1 - 2 MPa at 28 days						
100mm	Type 2.3 Unbound Subbase						
150mm	Class A1 or B CBR 15 Select Fill						
Design S	Design Subgrade CBR 4.5 (4-day soaked)						
450mm Total thickness							

PAVEMENT DETAILS (OVER CULVERT)

	New pavement to be constructed						
	Seal (see notes)						
	Initial Seal (see notes)						
14mm	S45R Seal						
10mm	AMC7 Initial Seal						
200mm	Type 2.1 Lightly Bound Base						
	UCS 1 - 2 MPa at 28 days						
200mm Total thickness							

KREFS

			Notes
3	Service Locating Details Updated	23/10/24	
ł	Issued For Construction	11/09/24	
0.	Revision	Date	

PLAN Scale A

All works to be carried out in accordance with the relevant CMDG Construction Specifications. PAVEMENT DESIGN Design Period: AADT: HV: DESA: Design Subgrade CBR: 4.5 Moderate Expansive Nature Max CBR Swell 2.5 - 5.0%



MTS - Banana Shire Council a/MIW - Banana Shire Council Designed: Drawn: J. Grimish

J. Grimish

Munt RPEQ^{*}#:

Certified:



NOTES:

1. Bitumen spray rates and aggregate spread rates are indicative only for the purposes of estimating. Seal design is the responsibility of the contractor and is to consider prevailing weather conditions at time of sealing and actual aggregates used.

20 Years 489 (2024) 11% 5.21E+05 4.5 (4 Day Soaked)

⊢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.

TEYS ROAD, BILOELA

CULVERT UPGRADE

PAVEMENT PLAN

500

2	4	6	8		10	12	(A1)
ī	- i	ĭ	ĭ	1	ĩ		4 050
							1.250

Dwg. No.

Sheet

5 of 14

Issue

		HIGH POINT CH.1.206 RL.167.035	+ IP CH. 9.300 RL.167.047			–Des	ign surface
						```	
Vertical Curve Length (m)		<	18.6 VC	2	~~~>	<	
Vertical Geometry Grade (%)		0.129	% 	-	-1.86	64 %	
DATUM R.L.163.000							
		36	245	<u>ې</u>	592	345	358 358
	0	8 0.1	4 0.2	3 0.4	3 0.5	8 0.6	0.0
LEVELS	167.03	167.02	166.99	166.93	166.87	166.84	166.77
EXISTING SURFACE	.035	.892	.749	484	.282	.203	.916
LEVELS	167.	166.	166.	166.	166.	166.	165.
CHAINAGE	0.000	5.000	10.000	15.000	18.600	20.000	25.000

В	Service Locating Details Updated	23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date

В

Last Mo





Council	a/MIW - Banana
	Designed:

J. Grimish

Almante

RPEQ #:



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



⊢WARNING!

BEWARE OF AERIAL SERVICES

Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.

¬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.

1 2	3	4	5	6	(A1) 1·125	Dwg. No.	Sheet	Issue
0.2 0.4	0.6	0.8	1.0	1.2	(A1) 1:25	600	6 of 14	В



Oct 23,

Last Mo

В	Service Locating Details Updated	23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date



TEYS ROAD, BILOELA CULVERT UPGRADE TYPICAL CROSS SECTIONS 0 0.2 0.4 0.6 0.8 1.0 1.2 (A1) Dwg. No. Sheet Issue 7 of 14 700 В

Design surface level									
	1 in	4 0%	0	1 in 4		2% 0.3%		1 in 4	
DATUM RL 164.400									
DESIGN LEVEL	166.481 -	165.635 -	165.635 -	166.309 -	166.798 -	166.873 -	166.863 -	166.408 -	
EXISTING LEVEL	166.481	166.353	166.264	166.127	166.177	166.282	166.099	165.835	
OFFSET	-13.590	-10.205	-8.405	-5.709	-3.752	0.000	3.708	5.529	



	1 in 4	0	%	1 in 4		2% 2%		1 in 4	
DATUM RL 164.800									
DESIGN LEVEL	166.811 -	165.978 -	165.978 -	166.434 -	166.923 -	166.994 -	166.924 -	166.435 -	165.850 -
EXISTING LEVEL	166.811	166.781	166.717	166.637	166.689	166.749	166.620	166.504	166.415
OFFSET	-12.477	-9.145	-7.345	-5.522	-3.565	0.000	3.488	5.445	7.787

CH. 10.000

	 1 in 4	00/	1 in 4	2%	3%	1 in 4	00/	1 in A	ł
DATUM RL 165.200		0 %							
DESIGN LEVEL	166.825 -	166.330 -	166.330 - 166.479 -	166.968 -	167.035 -	166.937 -	166.426 - 166.269 -	166.269 -	166.744 -
EXISTING LEVEL	166.825	166.858	166.889 166.899	166.972	167.000	166.921	166.845 166.830	166.788	166.744
OFFSET	-9.704	-7.726	-5.926 -5.331	-3.374	0.000	3.263	5.308 5.938	7.738	9.637

CH. 1.206

	1 in 4	0%	1 in 4	2% 3%	1 in 4	10	1%
DATUM RL 165.300							
DESIGN LEVEL	166.848 -	166.379 - 166.379 - 166.479 -	166.968 -	167.035 -	166.938 -	166.426 - 166.326 -	166.326 -
EXISTING LEVEL	166.848	166.886 166.917 166.924	167.012	167.035	166.949	166.896 166.887	166.845
OFFSET	-9.384	-7.505 -5.705 -5.305	-3.348	0.000	3.232	5.278 5.678	7.478

CH. 0.000

В	Service Locating Details Updated	23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date

-1 in 40% .850 166.270 165. 166.270 166.340

11.268

9.587

0%

165.719

9.394

441 642

165. 165.

.666 642

165. 165.

11.194 11.996

/-Existing surface level







2%







CH. 20.000

CROSS SECTIONS - TEYS RD (MC10) Scale A



MTS - Banana Shire Council Drawn: J. Grimish

a/MIW - Banana Shire Council Designed:

J. Grimish

Certified:

RPEQ #:





¬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.

WARNING! -

BEWARE OF AERIAL SERVICES Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



		1 in 4	0%		
100./80 -	166.363 -		104.914	164.917 -	164.919 -
105.384	165.242		011.001	165.122	165.124
4.000	5.667		11.404	13.264	14.105

TEYS ROAD, BILOELA CULVERT UPGRADE

ANNOTATED CROSS SECTIONS SHEET 1

					Dwg. No.	Sheet	Issue
1.0 2.0	3.0	4.0	5.0	(A1) 1:100	800	8 of 14	В

			Design sur	face leve	el					
						2%	2%			4.
			1 in 4							T in 4
DATUM RL 163.900	0	%								
DESIGN LEVEL	165.128 164.928 -	164.928 -		166.189 -	166.678 -	166.758 -		166.838 -	166.422	
EXISTING LEVEL	165.128 165.116	165.108		165.348	165.669	165.850		165.743	165.687	
OFFSET	-13.598 -12.800	-11.000		-5.957	-4.000	0.000		4.000	5.667	

						2%	2%				
			1 in 4	Τ							1 i
DATUM RL 163.800											
DESIGN LEVEL	164.885 - 164.883 -	164.881 -		166.132 -	166.621 -		- 1.07.001	166 701	107.001	166.365 -	
EXISTING LEVEL	165.023 165.052	165.101		165.135	165.388	101	164.601	166 404	tot.00-	165.278	
OFFSET	3.332).963		957	000	C	000		2	367	

DESIGN LEVEL	164.885 164.883	164.881	166.132	166.621	166.701	166.781	166.365	
EXISTING LEVEL	165.023 165.052	165.101	165.135	165.388	165.457	165.404	165.278	
OFFSET	-13.332 -12.763	-10.963	-5.957	-4.000	0.000	4.000	5.667	
					CH. 40.000)		
					2% 2%			

					2%	Ζ%					
		0%	1 in 4					1 in 4	0%	1 in 4	4
DATUM RL 163.800											
DESIGN LEVEL	164.880 164.880	164.882 -	166.131 -	166.620 -	166 700 -		166./80		164.913 -	164.917 -	164.919
EXISTING LEVEL	164.980	165.111	165.173	165.389	165 461		165.3/3	762.601	165.172	165.177	165.179
OFFSET	-13.146	-12.7.34 -10.954	-5.957	-4.000			4.000	/00.c	11.466	13.266	14.329

CH. 38.200

CH. 50.000

_				
42pm				Notes:
24 - 3:				
3, 202				
ct 2				
Ō .'.	В	Service Locating Details Updated	23/10/24	
odified	А	Issued For Construction	11/09/24	
ast M	No.	Revision	Date	

2024 - 3:4

¬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.

WARNING! -

BEWARE OF AERIAL SERVICES Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.



						5%	
		1 in 4	0%	1	in 4		
DATUM RL 164.700							
DESIGN LEVEL	000 991		- 71/.001	- 2//.col	- 6/2.00	166.838 -	167.022 -
EXISTING LEVEL	900 991	00.001	100.007	100.112	166.326	166.626	166.808
OFFSET	CVO 11	040.11-	- 4.7.30	- / .938	-5.924	-3.674	0.000





								3%	
		1 in 4	!		1 in 4				
DATUM RL 164.300									
DESIGN LEVEL	010 101	- 000.001	- 105.301	- 165.361	166 070	- 7/7.001	166.783 -		166.898 -
EXISTING LEVEL	101 010	103.030	105.033	165.695	165 016	040.001	166.166		166.359
OFFSET		200.21-	-11.325	-9.525	E 002	-0.003	-3.837		0.000

							2.8%	
	1 in 4	0%		1 in 4				
165 600	165,322 -	165 200	770.001	166 267	102.001	166.//4 -		166.883 -
002 291	165 597	100.001	140.001	166 780	607.001	100.113		166.311
10 570	-11 460	00t.1 1		5 881 5	100.0-	-3.852		000.0
	10 EZO 16E EOO 16E EOO	-12.570 165.600 165.600 -12.570 - 165.600 -105.600 -105.6000 -105.6000 -105.6000 -105.6000 -105.6000 -105.6000	-12.570 165.600 165.600 -12.570 -11.460 165.597 165.322	-12.570 165.600 165.600 <u>165.600</u> -11.460 165.597 165.322 <u>5 165.322</u> -9.660 165.641 165.322 <u>6 16</u>	-12.570 165.600 165.600 165.600 -11.460 165.597 165.322	-12.570 165.600 165.600 165.600 -12.570 165.597 165.322 - <u>11.460</u> -165.597 165.322 - <u>11.460</u> - <u>165.322</u> - <u>11.765</u> -5.881 165.789 166.267 - <u>11.765</u> -5.881 165.789 166.267 -5.691 165.789	-12.570 165.600 165.600 165.600 -11.460 165.597 165.322 <u>40</u> -11.460 165.597 165.322 <u>40</u> -9.660 165.641 165.322 <u>165.322</u> -3.881 165.789 166.267 <u>40</u> -3.852 166.113 166.774 <u>166.774</u>	-12.570 165.600 165.600 165.600 -12.570 165.600 165.600 -11.460 165.597 165.322

CROSS SECTIONS - TEYS RD (MC10)



MTS - Banana Shire Council a/MIW - Banana Shire Council Designed: J. Grimish

J. Grimish

DIS Review - Banana Shire Council Certified: Munte RPEQ #:



Scale A

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY







CH. 60.000



CH. 59.100

TEYS ROAD, BILOELA								
CULVERT UPGRADE								
ANNOTATED CROSS SECTIONS SHEET 2								
1.0 2.0 3.0 4.0 5.0 (A1)	Dwg. No.	Sheet	Issue					
1:10Ó	801	9 of 14	В					

t3pm		
24 - 3:4		
23, 20,		
	Service Locating Details Updated	23/10/24
A	Issued For Construction	11/09/24
No.	Revision	Date

		1 in 4	6.8%	1%	1 in 4	0%
DATUM RL 165.100	0%					
DESIGN LEVEL	166.374 - 166.147 -	166.147 - 166.199 - 166.817 -	167.057 -	167.090 -	166.657 - 166.512 -	166.512 - 166.673 -
EXISTING LEVEL	166.374 166.310	166.472 166.493 166.795	167.038	167.067	166.996 166.978	166.759 166.673
OFFSET	-8.921 -8.010	-6.210 -6.000 -3.528	0.000	3.240	4.971 5.549	7.349 7.991

XREFS :- X_CRC_BSC_TITLE.dwg ; X_MC10_XSECT3.dwg

CH. 80.000

CH. 78.975

			Design surfa					<u> </u>	Existing surface level
		1 in 4		1 in 4	7%	1%	1 in 4	0%	
	2					 	 0 0	9	
DESIGN LEVEL	166.45	166 08	166.08 166.18	166.81	167.05	167.08	166.65 166.55	166.55 166.72	
EXISTING LEVEL	166 455	166.362	166.401 166.456	166.809	167.057	167.093	167.020 167.007	166.818 166.727	
OFFSET	-9 68 <u>9</u>	-8 211	-6.411 -6.011	-3.511	0.00	3.213	4.944 5.344	7.144 7.826	

¬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.

¬WARNING! -

BEWARE OF AERIAL SERVICES Overhead powerlines and communication cables within work area. Contact service provider for advice prior to commencement of work.

CROSS SECTIONS - TEYS RD (MC10)

Scale A



J. Grimish

a/MIW - Banana Shire Council Designed:

J. Grimish

DIS Review - Banana Shire Council Certified: Munt RPEQ^{*}#:



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



TEYS ROAD, BILOELA CULVERT UPGRADE

ANNOTATED CROSS SECTIONS SHEET 3

	Dwg. No.	Sheet	Issue
1.0 2.0 3.0 4.0 5.0 (A1)			
1:100	802	10 of 14	R
	002		D





Culvert								Base Slat	o / Footing		
Alignment	Chainage	Skew	ID	Structure	Exp	Installation	Concrete	Rebar	Fabric		Concr
	(m)	No.			Class	Туре	(m³)	(kg)	(m²)	Туре	(m ³
MC10	32	107.7	1	"2/2400x1200 RCBC (10/2.40)"	B2	New	19.0	925.3	146.6	RL1218	0.9
· · · ·					Total Fabr	ric (Area / Type)	146.6 / RL1	218			

Se	rvice Locating Details Updated	23/10/24
lss	ued For Construction	11/09/24
Re	evision	Date

B

र्छ No. Revision

CrC	MTS - Banana Shire Council	a/MIW - Banana Shire Council	DIS Review - Banana Shire Council	
quality people client focused solution driven	Diawii.	Designed.	Certified.	Banana Santa
25 Barter Street, GYMPIE, QLD, 4570 ABN 73 617 924 437 Job No.: CRC00345	J. Grimish	J. Grimish	RPEQ #: 14933	

TEYS ROAD, BILOELA CULVERT UPGRADE							
CULVERT UPGRADE	TEYS ROAD, BILOELA						
	CULVERT UPGRADE						
STORMWATER DRAINAGE PLAN							
Dwg. No. Sheet Issue	05 10 15 20 25 (A1)	Dwg. No.	Sheet	Issue			
1200 11 of 14 B	1:50	1200	11 of 14	В			

-		
В	Service Locating Details Updated	23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date

LONGITUDINAL SECTION - OPEN DRAIN (MD10)

Ex	CAUTION isting communications conduit 0.496m below proposed drain invert level	:			CAUTION: Existing commun below proposed c	icatio Irain	ons conduit 0.964m invert level.			–Design Su	Inface
	Vertical Geometry Grade (%)								-0.	16 %	
	DATUM R.L.161.000										
	CUT / FILL DEPTHS	-0.081	-0.2	-0.36	-0.335	-0.297	-0.086	-0.02	-0.154	0 7 7	0
	DESIGN SURFACE LEVELS	165.007	165.003	164.991	164.975	164.973	164.959	164.954	164.943		104.321
	EXISTING SURFACE	165.088	165.203	165.351	165.310	165.270	165.045	164.975	165.097		02.040
	CHAINAGE	0.000	2.349	10.000	20.000	21.273	30.000	32.875	40.000		

B



Horizontal Scale A Vertical Scale B



J. Grimish

a/MIW - Banana Shire Council Designed:

J. Grimish

DIS Review - Banana Shire Council Certified: Mumh

RPEQ[®]#:







TEYS ROAD, BILOELA

CULVERT UPGRADE

STORMWATER LONGITUDINAL SECTION SHEET 1

	Dwg. No.	Sheet	Issue
.5 1.0 1.5 2.0 2.5 1:50	1250	12 of 14	В



			Notes:	
В	Service Locating Details Updated	23/10/24		
А	Issued For Construction	11/09/24		
No.	Revision	Date		

PLAN Scale A



MTS - Banana Shire Council Drawn: J. Grimish

a/MIW - Banana Shire Council Designed:

J. Grimish

DIS Review - Banana Shire Council Certified:

RPEQ^{*}#:



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

TEYS ROAD, BILOELA CULVERT UPGRADE

TEMPORARY EROSION AND SEDIMENT CONTROL SHEET 1

	Dwg. No.	Sheet	Issue
5 10 15 20 25 (A1)	1700	13 of 14	В



Notes

Design and construction of all sediment management devices is the contractors responsibility and shall be 1. completed and effective prior to:

Dirty Water Flow

Clean Water Flow

Rock Check Dam

Existing Trees

End of line rock check dam

(to act as rock filter dam)

0

- (i) Stripping of topsoil and grass.
- (ii) Bulk earthworks to the site.
- (iii) Service installations.
- 2. 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 3. throughout construction. Sediment fences are to be cleaned out when capacity is reduced by 30%. 4. 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.
- 5. 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.
- 6. 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%. 7. Spacing of check dams to be at every 1.0m vertical drop in drainage channel.
- 8. Contract Administrator to order installation of topsoil and grass seeding to disturbed areas.
- 9. The contractor shall ensure all turfed and/or seeded areas are regularly watered to ensure vegetation is maintained until there is 80% coverage.
- 10. 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

В	Service Locating Details Updated	23/10/24
А	Issued For Construction	11/09/24
No.	Revision	Date

MATERIALS	
MATERIAL	ТҮРЕ
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 Cloth	Filter as specified (terram 100, polyfelt ts500, Bidim u24 or equivalent)
Prefabricated Unit	Geofab, envirofence or approved equivalent









Posts @ 3m ctrs

NO WORK IS SO **IMPORTANT THAT** IT CANNOT BE DONE SAFELY



14 of 14

B

1701