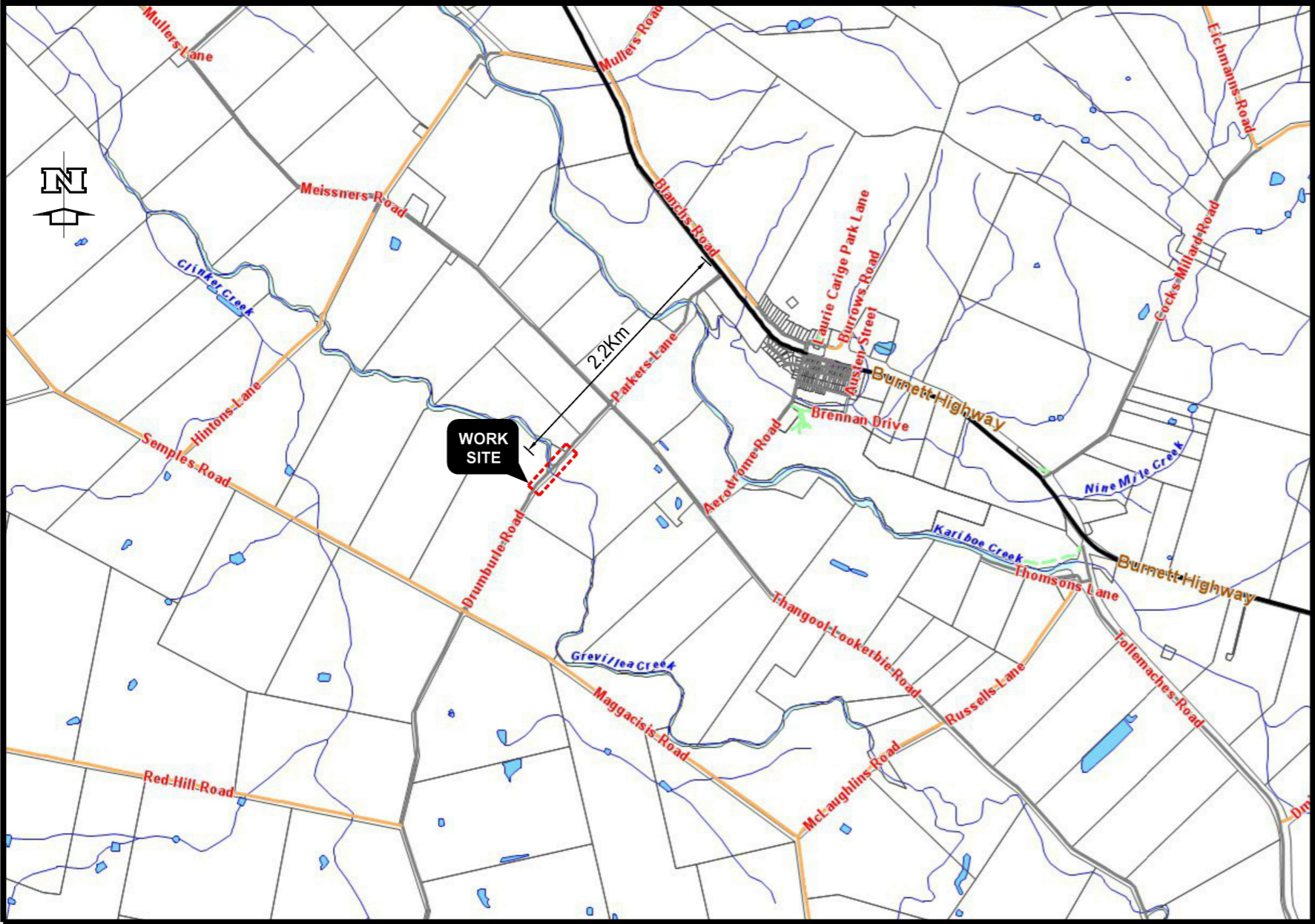


GREVILLEA CREEK DRUMBURLE RD,THANGOOL
FLOODWAY AND CULVERT RESTORATION
IDP ID NO. 23/24 5520-2383-0138

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LOCALITY PLAN
NTS

WARNING

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DRAWING INDEX

Table with 3 columns: SHEET NO., DRAWING NO., and DRAWING TITLE. It lists 15 drawings including locality plan, survey control setout, general layout plan, alignment setout, rock protection arrangement, culvert headwall details, longitudinal sections, cross sections, traffic signage plan, and sediment/erosion control measures.

ATTACHED STANDARD DRAWING INDEX

Table with 2 columns: DRAWING NO. and DRAWING TITLE. It lists standard drawings for excavation, floodway culvert crossing, DTMR precast culvert headwalls, DTMR RC box culverts, DTMR fish passage, and DTMR road edge guide posts.

FOR TENDER

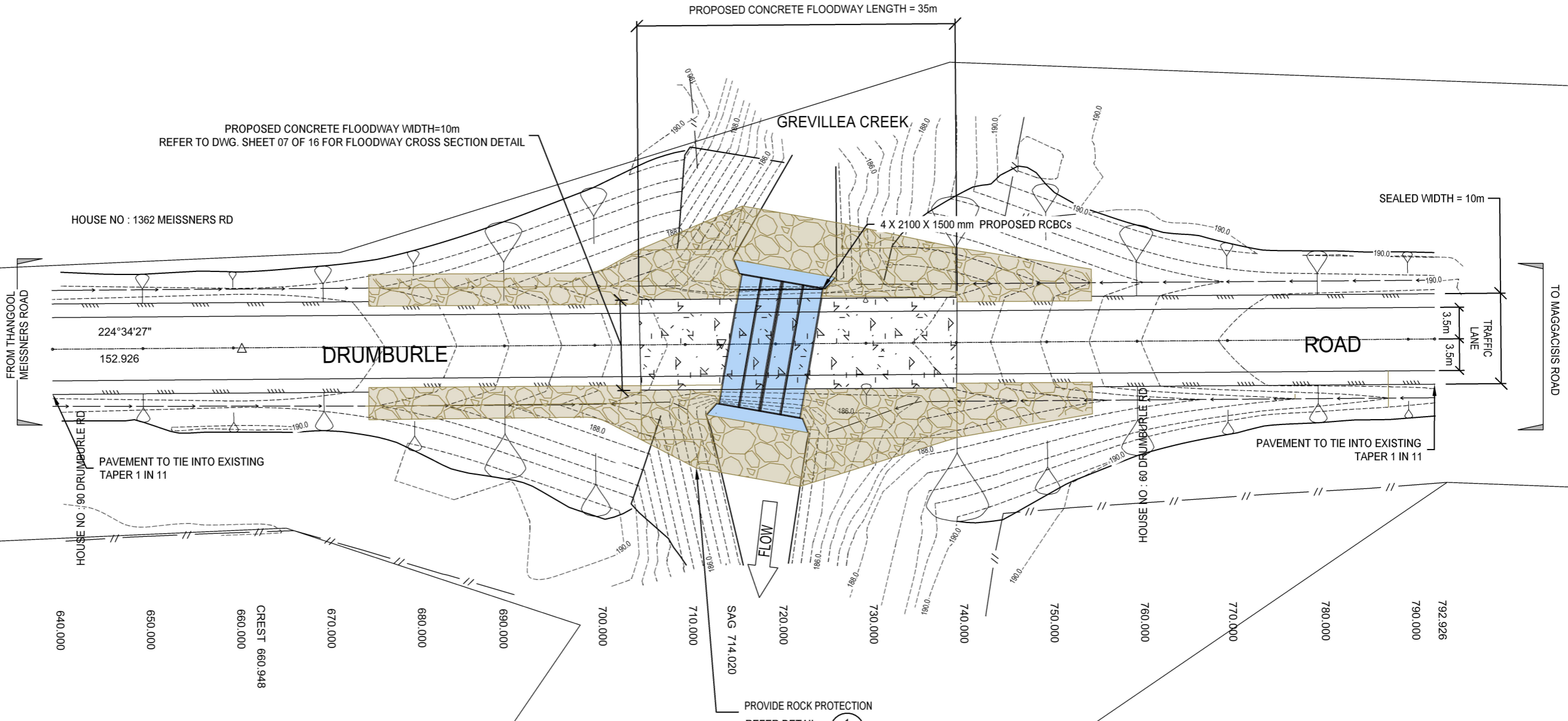
Bottom section containing a revision table, project details (M. KASINADHUNI, I. JOHNSON), logos (Banana Shire, BEFORE YOU DIG), and project title (GREVILLEA CREEK DRUMBURLE RD, THANGOOL FLOODWAY AND CULVERT RESTORATION LOCALITY PLAN & DRAWING SHEET INDEX) with scale and sheet information.



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LEGEND

- Proposed Concrete Floodway
- Proposed Rock protection
- Proposed Edge of Bitumen
- Proposed Table Drain invert
- Proposed Road Alignment
- Proposed Edge lines
- Design Contour
- Existing Boundary
- Existing Fenceline



NOTES:
1. REFER TO DWG SHEET 04 OF 16 FOR COORDINATION OF CONTROL LINE AND TYPICAL CROSS SECTION DETAIL.

FOR TENDER

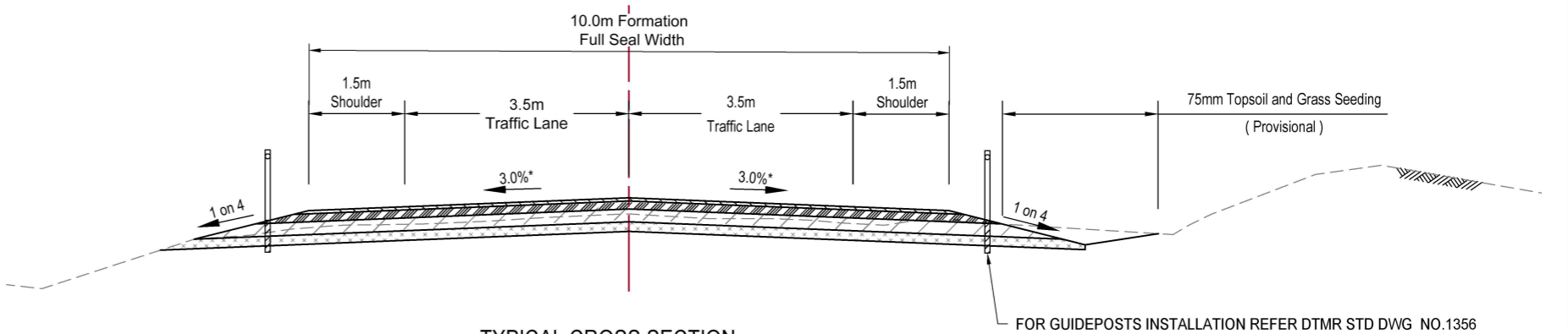
WARNING

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ALIGNMENT - ROAD CENTRELINE HORIZONTAL POINTS					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP1	640.000	252058.789	7288882.941	189.761	224°34'26.66"
	645.000	252055.280	7288879.379	189.787	224°34'26.66"
	650.000	252051.771	7288875.818	189.813	224°34'26.66"
	655.000	252048.261	7288872.256	189.839	224°34'26.66"
	660.000	252044.752	7288868.694	189.864	224°34'26.66"
	665.000	252041.243	7288865.132	189.839	224°34'26.66"
	670.000	252037.734	7288861.571	189.737	224°34'26.66"
	675.000	252034.225	7288858.009	189.556	224°34'26.66"
	680.000	252030.716	7288854.447	189.297	224°34'26.66"
	685.000	252027.207	7288850.886	188.959	224°34'26.66"
	690.000	252023.697	7288847.324	188.544	224°34'26.66"
	695.000	252020.188	7288843.762	188.100	224°34'26.66"
	700.000	252016.679	7288840.200	187.656	224°34'26.66"
	705.000	252013.170	7288836.639	187.213	224°34'26.66"
	710.000	252009.661	7288833.077	186.898	224°34'26.66"
	715.000	252006.152	7288829.515	186.824	224°34'26.66"
	720.000	252002.642	7288825.954	186.863	224°34'26.66"
	725.000	251999.133	7288822.392	186.902	224°34'26.66"
	730.000	251995.624	7288818.830	186.941	224°34'26.66"
	735.000	251992.115	7288815.268	186.989	224°34'26.66"
	740.000	251988.606	7288811.707	187.191	224°34'26.66"
	745.000	251985.097	7288808.145	187.596	224°34'26.66"
	750.000	251981.588	7288804.583	188.054	224°34'26.66"
	755.000	251978.078	7288801.021	188.513	224°34'26.66"
	760.000	251974.569	7288797.460	188.951	224°34'26.66"
	765.000	251971.060	7288793.898	189.290	224°34'26.66"
	770.000	251967.551	7288790.336	189.521	224°34'26.66"
	775.000	251964.042	7288786.775	189.644	224°34'26.66"
	780.000	251960.533	7288783.213	189.679	224°34'26.66"
	785.000	251957.023	7288779.651	189.707	224°34'26.66"
	790.000	251953.514	7288776.089	189.734	224°34'26.66"
IP2	792.926	251951.461	7288774.005	189.750	224°34'26.66"



TYPICAL CROSS SECTION

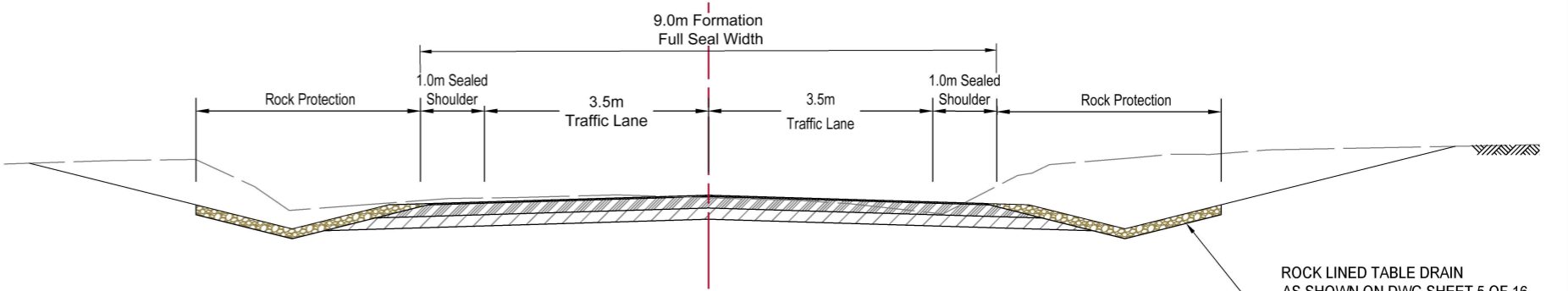
Ch. 640.00 - Ch.792.926
(Excluding Floodway)
Scale: 1:100 (A3)

NOTE

- CONTRACTOR TO CONFIRM INSITU SUBGRADE & PROVIDE TEST RESULTS TO COUNCIL SUPERVISOR PRIOR TO PROCEEDING.

PAVEMENT DETAILS

	50mm	Wearing Course - 14/10 Two Coat Bitumen seal
	175mm	Base Course, Full Width, CBR 80
	200mm	Sub Base Course, Full Width, CBR 35
	150mm	Subgrade, CBR 6 (Minimum)



TYPICAL CROSS SECTION WITH ROCK LINED TABLE DRAINS

Ch. 675.00 - Ch.755.00
(Excluding Floodway)
Scale: 1:100 (A3)

ROCK LINED TABLE DRAIN
AS SHOWN ON DWG.SHEET 5 OF 16
DEPTH = 150mm
D50 = 100mm
GEOFABRIC FILTER CLASS 2
STRENGTH CLASS E

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FOR TENDER

3	FOR REVIEW	22/12/2023
2	FOR REVIEW	24/11/2023
1	FOR REVIEW	08/09/2023
No.	Revision	Date

General Notes:

M.KASINADHUNI	I. JOHNSON
DESIGN	MIW
N. GARVEY	P. MEREDITH
MTS	DIS RPEQ 15268





GREVILLEA CREEK DRUMBURLE RD, THANGOOL
FLOODWAY AND CULVERT RESTORATION
ALIGNMENT SETOUT & TYPICAL CROSS SECTION DETAIL

Scale	AS SHOWN	Dwg. No.	5520-2383-0138-004	Sheet	4 OF 16	Issue	1
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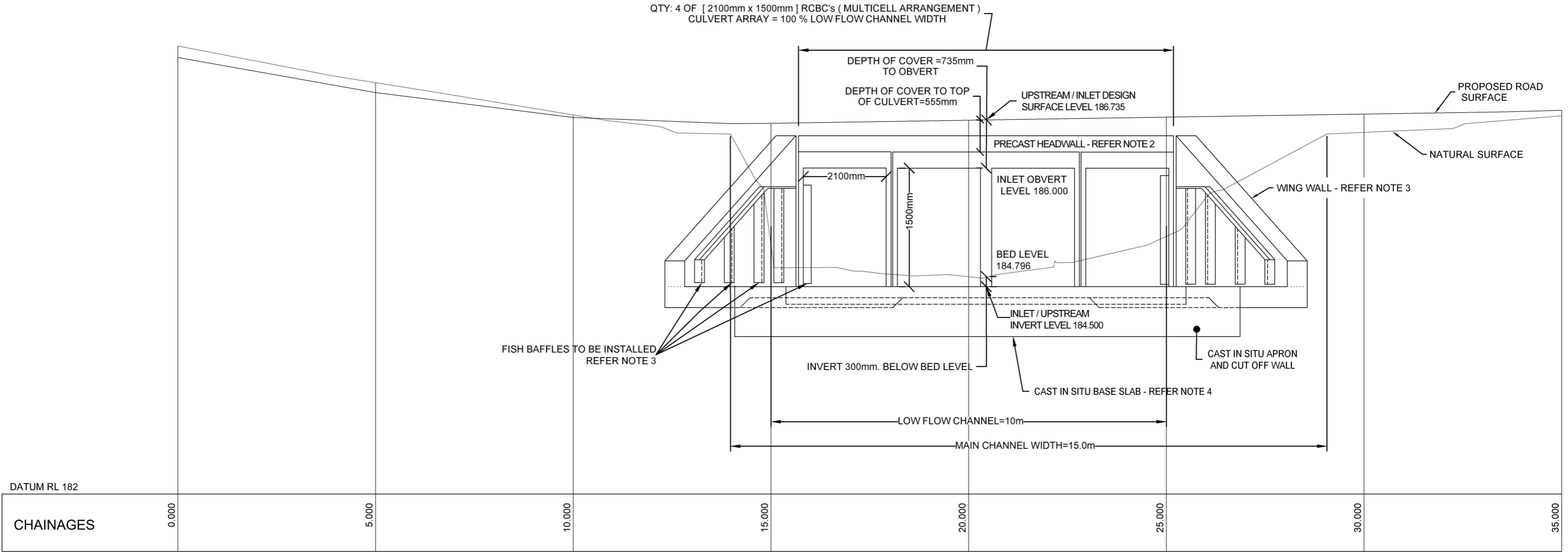
GREVILLEA CREEK DRUMBURLE RD, THANGOOL

			General Notes:	M.KASINADHUNI	I. JOHNSON	 Banana SHIRE SHIRE OF OPPORTUNITY	 BEFORE YOU DIG www.byda.com.au	GREVILLEA CREEK DRUMBURLE RD, THANGOOL							
				DESIGN	MIW			FLOODWAY AND CULVERT RESTORATION							
3	FOR REVIEW	22/12/2023		N. GARVEY	P. MEREDITH			ROCK PROTECTION ARRANGEMENT							
2	FOR REVIEW	24/11/2023						Scale	AS SHOWN	Dwg. No.	5520-2383-0138-005	Sheet	5 OF 16	Issue	1
1	FOR REVIEW	08/09/2023													
No.	Revision	Date		MTS	DIS RPEQ 15268										

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NOTES:

1. FOR EXCAVATION, BEDDING & BACKFILLING OF PRECAST BOX CULVERTS REFER STD. DWG. CMDG - D - 011 (EXCAVATION, BEDDING AND BACKFILLING OF PRECAST BOX CULVERTS) .
2. FOR HEADWALL CONNECTIONS FOR BOX CULVERTS REFER DTMR STD. DWG. - 1243 (PRECAST CULVERT HEADWALLS) .
3. FOR INSTALLATION OF FISH BAFFLES WITHIN THE END CULVERTS AND UPSTREAM END WINGWALLS REFER TO DTMR STD. DWG. - 1270 (FISH PASSAGE, RC BOX CULVERTS IN ADR RED MAPPED WATERWAYS) .
4. FOR INSTALLATION OF CULVER SLAB REFER TO DTMR . STD. DWG - 1250 (RC BOX CULVERTS AND SLAB LINK BOX CULVERTS.



CULVERT HEADWALL WITH FISH BAFFLES CROSS SECTION DETAILS

Scales (A3) Hor. 1:100 Ver. 1:50

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FOR TENDER

3	FOR REVIEW	22/12/2023
2	FOR REVIEW	24/11/2023
1	FOR REVIEW	08/09/2023
No.	Revision	Date

General Notes:

M.KASINADHUNI	I. JOHNSON
DESIGN	MIW
N. GARVEY	P. MEREDITH
MTS	DIS RPEQ 15268



GREVILLEA CREEK DRUMBURLE RD, THANGOOL

FLOODWAY AND CULVERT RESTORATION
CULVERT HEADWALL WITH FISH BAFFLES CROSS SECTION DETAILS

Scale	AS SHOWN	Dwg. No.	5520-2383-0138-006	Sheet	6 OF 16	Issue	1
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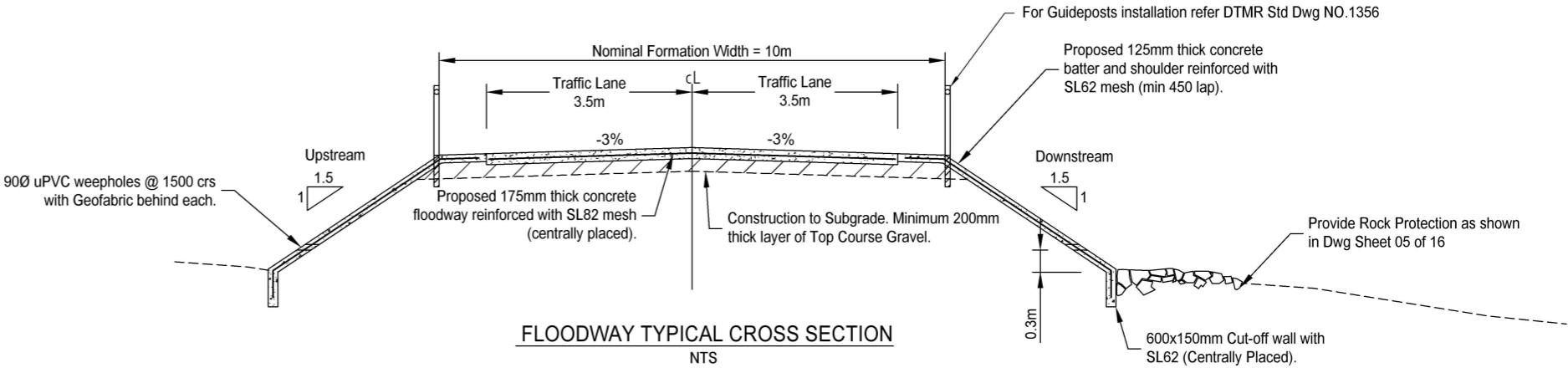
STRUCTURE NAME & SETOUT COORDINATES	INLET 252007.025 E 7288820.494 N	OUTLET 251998.620 E 7288832.481 N
--	--	---

STRUCTURE DESCRIPTION	CAST IN-SITU	CAST IN-SITU
-----------------------	--------------	--------------

PIPE SIZE (mm)	(4x)2100x1500
PIPE CLASS & TYPE	RCBC
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
	LENGTH = 14.640m (QTY : 6 No's @ 2.44m) 4 OF [2100mm X 1500mm] RCBC's (MULTICELL ARRANGEMENT) TOTAL QTY : 24
DATUM RL	176.000

FINISHED SURFACE LEVEL	186.190	186.080
EXISTING SURFACE LEVEL	184.796	184.737
INVERT LEVEL	184.500	184.3536
CHAINAGE	0.000	14.640

PROPOSED CULVERT LONGITUDINAL SECTION
H 1:200 (A3) V 1:100 (A3)



FOR TENDER

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3	FOR REVIEW	22/12/2023
2	FOR REVIEW	24/11/2023
1	FOR REVIEW	08/09/2023
No.	Revision	Date

General Notes:

M.KASINADHUNI	I. JOHNSON
DESIGN	MIW
N. GARVEY	P. MEREDITH
MTS	DIS RPEQ 15268

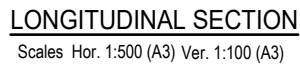






GREVILLEA CREEK DRUMBURLE RD, THANGOOL
FLOODWAY AND CULVERT RESTORATION
PROPOSED CULVERT LONGITUDINAL SECTION & FLOODWAY DETAILS

Scale	AS SHOWN	Dwg. No.	5520-2383-0138-007	Sheet	7 OF 16	Issue	1
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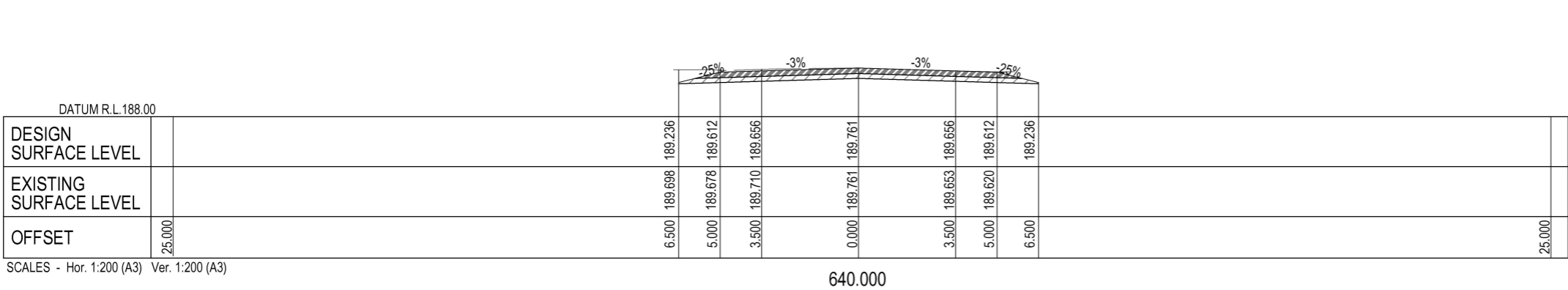
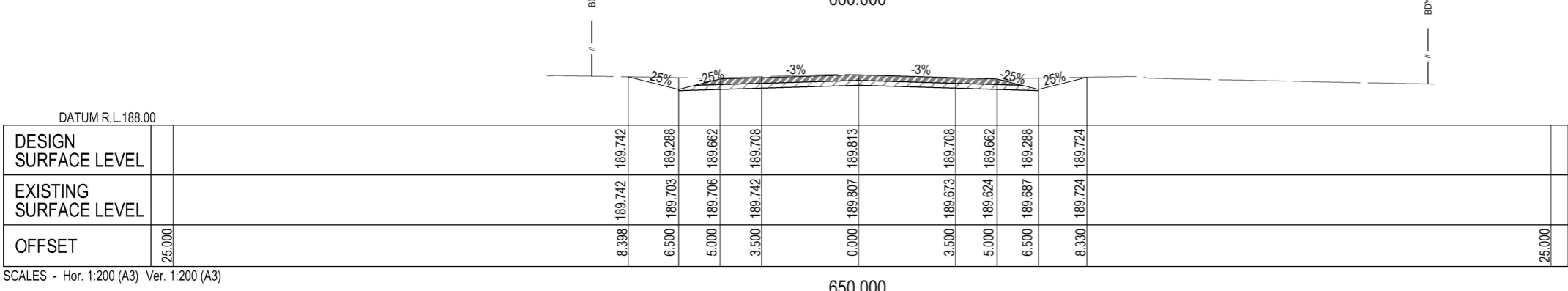
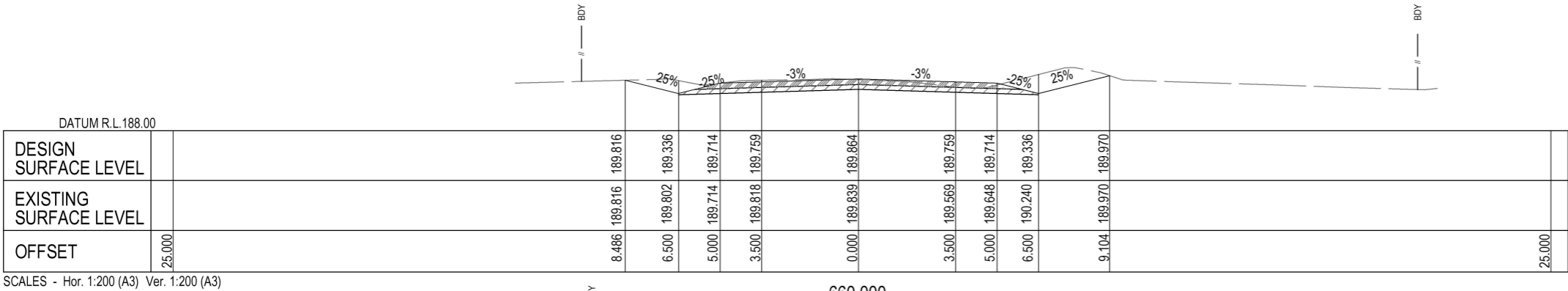
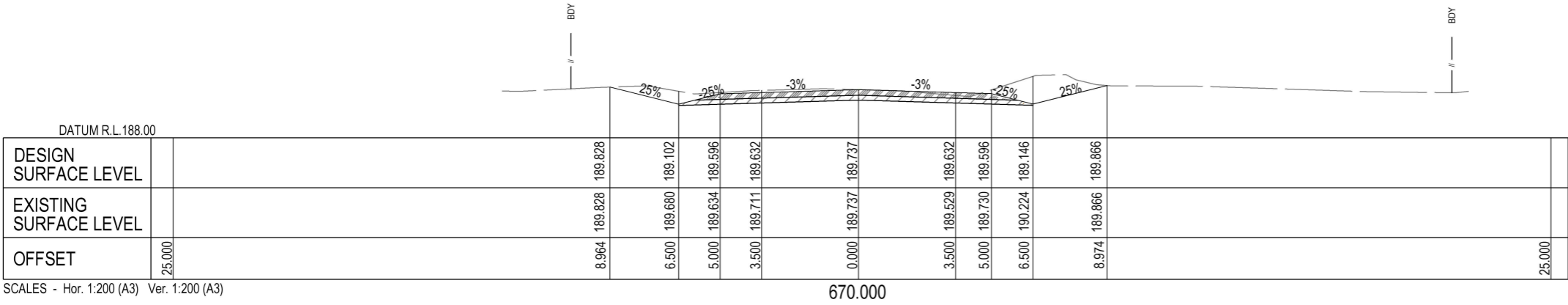
***** WARNING *****

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			General Notes:	M.KASINADHUNI	I. JOHNSON	 	GREVILLE CREEK DRUMBURLE RD, THANGOOL FLOODWAY AND CULVERT RESTORATION LONGITUDINAL SECTION-CH.640.0 TO CH.792.926									
				DESIGN	MIW											
2	FOR REVIEW	24/11/2023		N. GARVEY	P. MEREDITH											
1	FOR REVIEW	08/09/2023					 Banana SHIRE SHIRE OF OPPORTUNITY	 BEFORE YOU DIG www.byda.com.au	Scale	AS SHOWN	Dwg. No.	5520-2383-0138-008	Sheet	8 OF 16	Issue	1
No.	Revision	Date		MTS	DIS				RPEQ	15268						


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FOR TENDER

WARNING

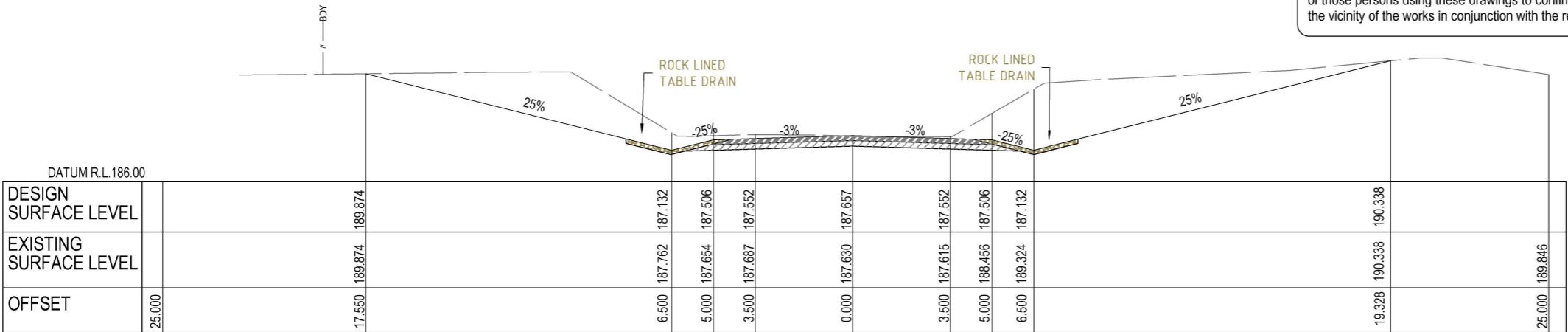
The location of existing public utilities shown on these drawings is approximate only and in some cases may be inaccurate or incomplete. No responsibility is accepted for nor is any guarantee made as to the accuracy of the locations shown that have been plotted from information provided by the relevant 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.

			General Notes:	M.KASINADHUNI	I. JOHNSON		GREVILLEA CREEK DRUMBURLE RD,THANGOOL						
				DESIGN	MIW		FLOODWAY AND CULVERT RESTORATION						
3	FOR REVIEW	22/12/2023		N. GARVEY	P. MEREDITH		TYPICAL CROSS SECTIONS-CH.640.0 TO CH.670.0						
2	FOR REVIEW	24/11/2023					Scale	AS SHOWN	Dwg. No.	5520-2383-0138-009	Sheet	9 OF 16	Issue
1	FOR REVIEW	08/09/2023		MTS	DIS	RPEQ 15268							
No.	Revision	Date											

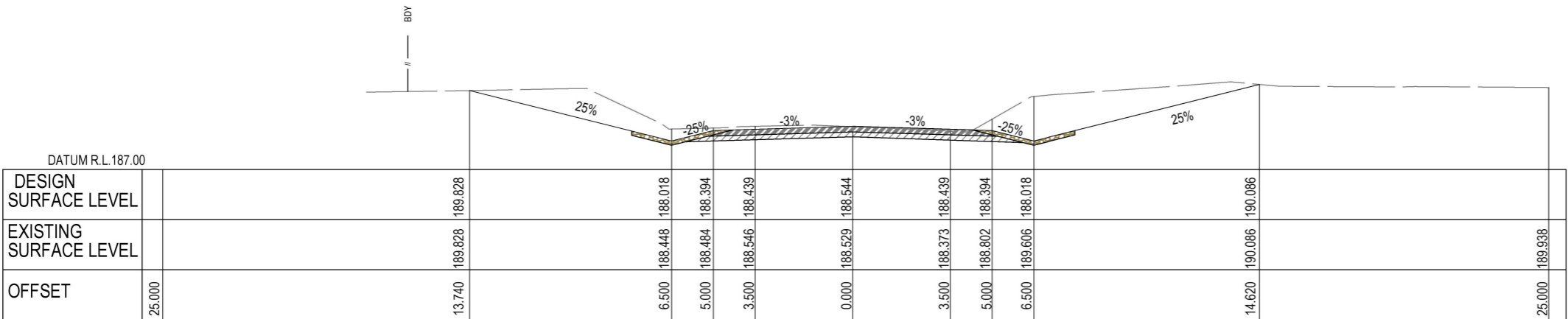
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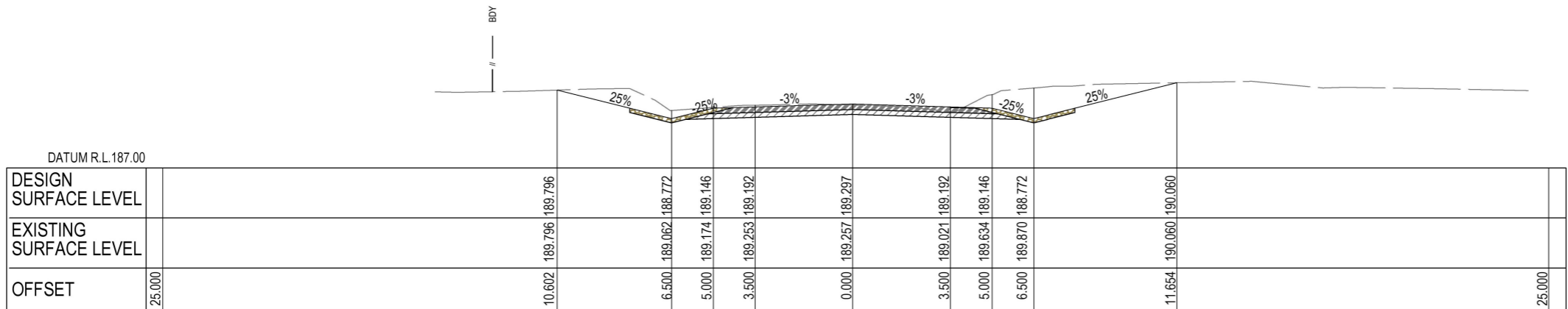
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SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3) 700.000




SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3) 690.000



SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3) 680.000

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				M.KASINADHUNI	I. JOHNSON						
				DESIGN	MIW						
3	FOR REVIEW	22/12/2023		N. GARVEY	P. MEREDITH						
2	FOR REVIEW	24/11/2023									
1	FOR REVIEW	08/09/2023									
No.	Revision	Date	General Notes:	MTS	DIS	RPEQ	15268				



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GREVILLEA CREEK DRUMBURLE RD, THANGOOL

FLOODWAY AND CULVERT RESTORATION

CROSS SECTIONS-CH.680.0 TO CH.700.0

Scale

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Dwg. No.

5520-2383-0138-010

Sheet

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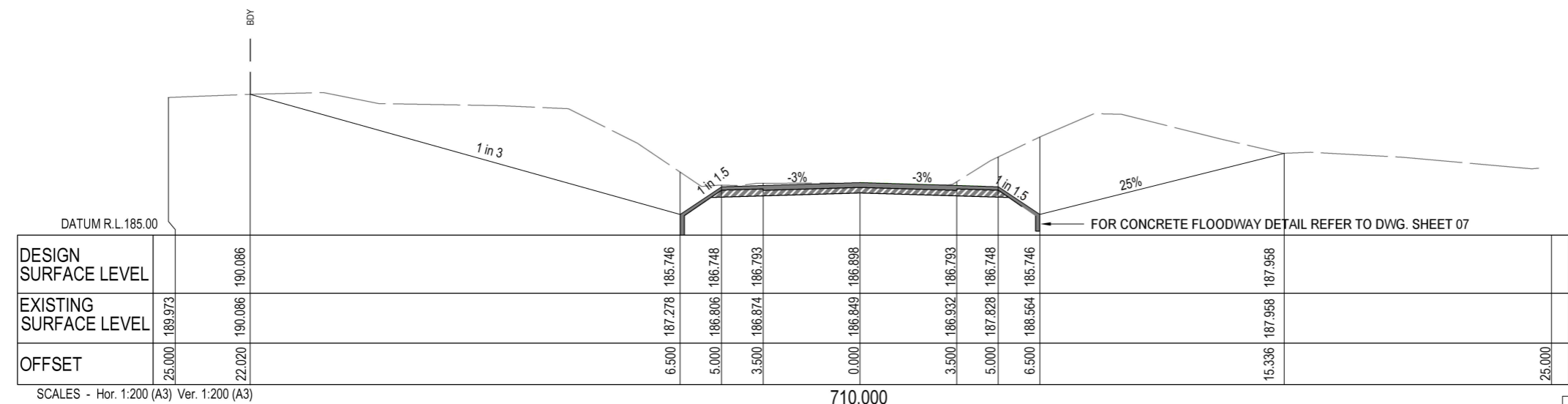
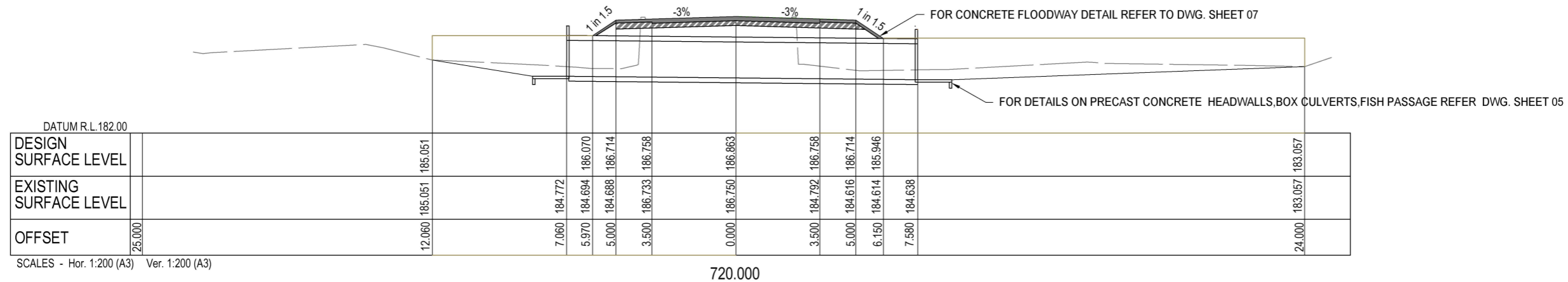
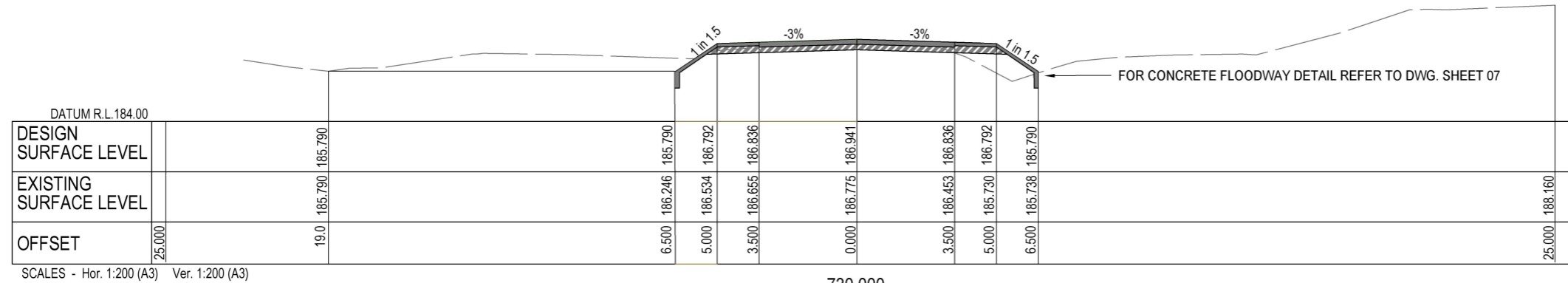
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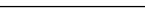
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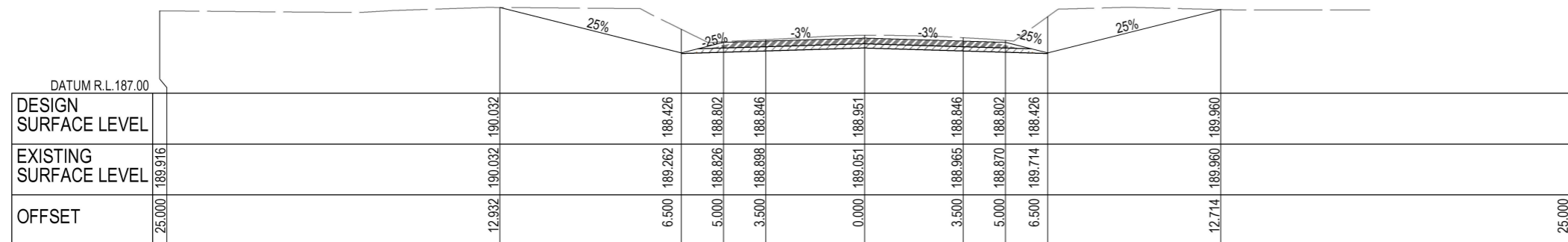
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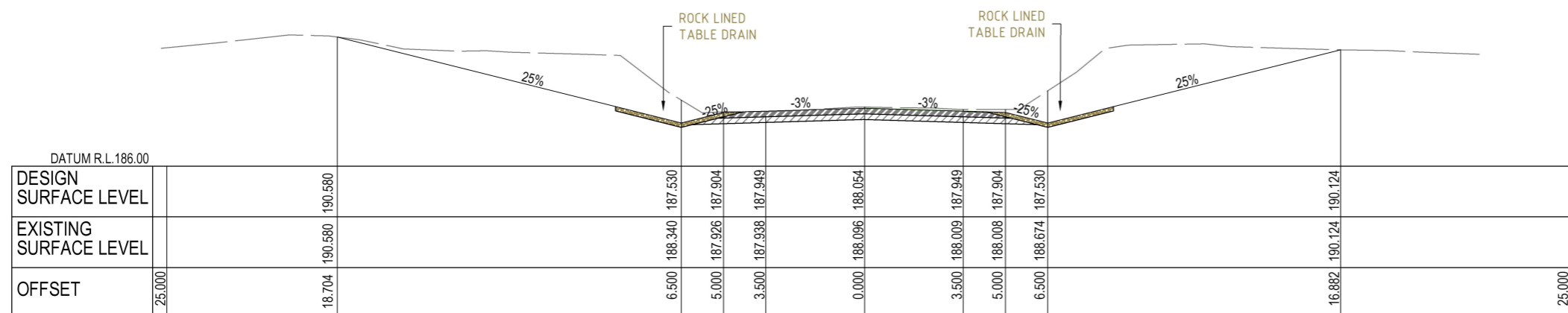
			General Notes:	M.KASINADHUNI	I. JOHNSON	 Banana SHIRE SHIRE OF OPPORTUNITY	 BEFORE YOU DIG www.byda.com.au	GREVILLE CREEK DRUMBURLE RD, THANGOOL FLOODWAY AND CULVERT RESTORATION CROSS SECTIONS-CH.710.0 TO CH.730.0							
3	FOR REVIEW	22/12/2023		DESIGN	MIW							Scale AS SHOWN	Dwg. No. 5520-2383-0138-011	Sheet 11 OF 16	Issue 1
2	FOR REVIEW	24/11/2023		N. GARVEY	P. MEREDITH										
1	FOR REVIEW	08/09/2023													
No.	Revision	Date													
				MTS	DIS RPEQ 15268										

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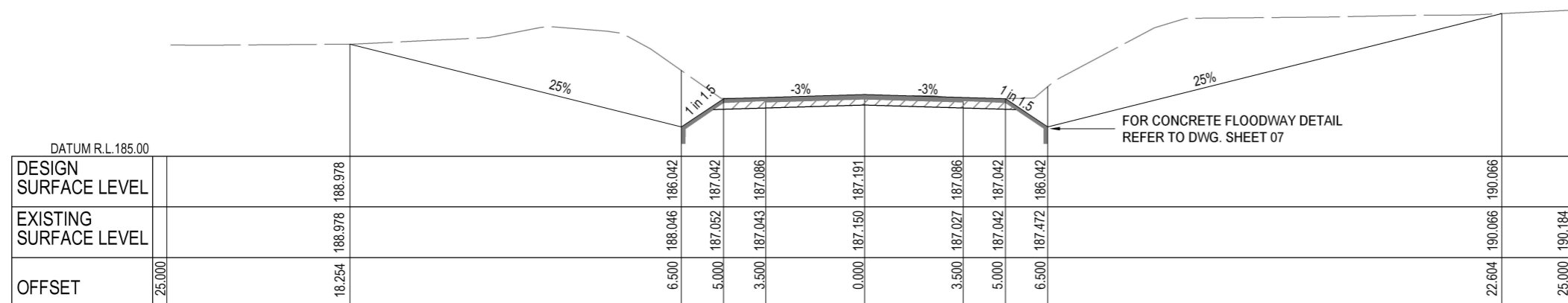
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SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3)

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SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3)

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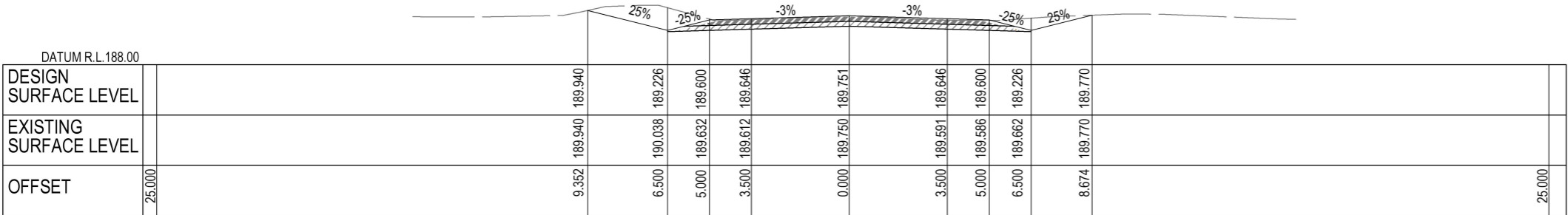
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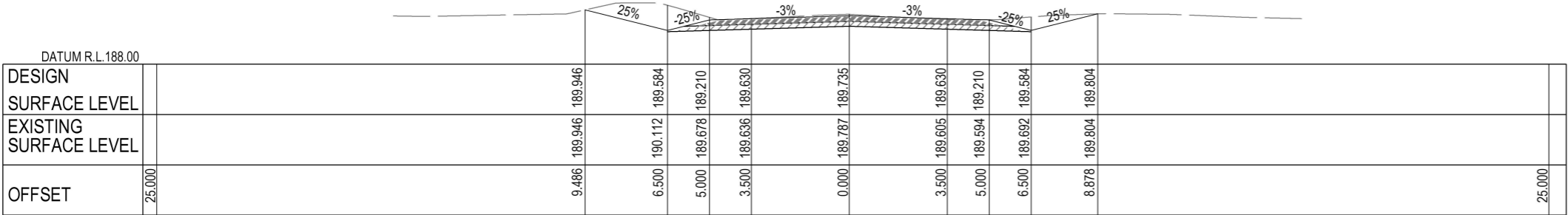
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				DESIGN	MIW			FLOODWAY AND CULVERT RESTORATION							
3	FOR REVIEW	22/12/2023		N. GARVEY	P. MEREDITH			CROSS SECTIONS-CH.740.0 TO CH.760.0							
2	FOR REVIEW	24/11/2023						Scale	AS SHOWN	Dwg. No.	5520-2383-0138-012	Sheet	12 OF 16	Issue	1
1	FOR REVIEW	08/09/2023													
No.	Revision	Date		MTS	DIS	RPEQ 15268									

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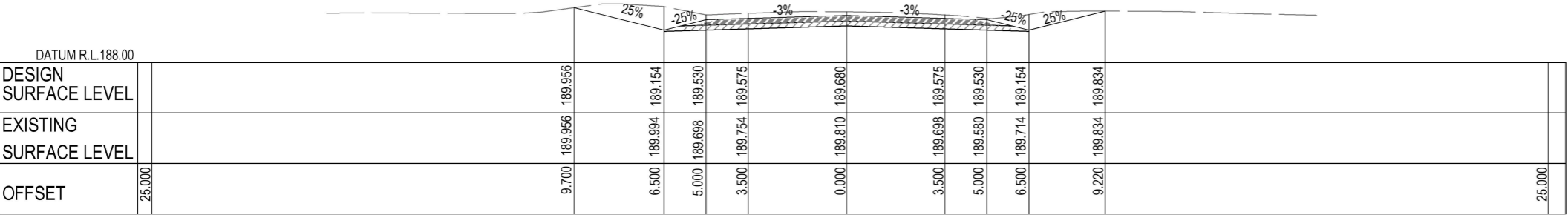
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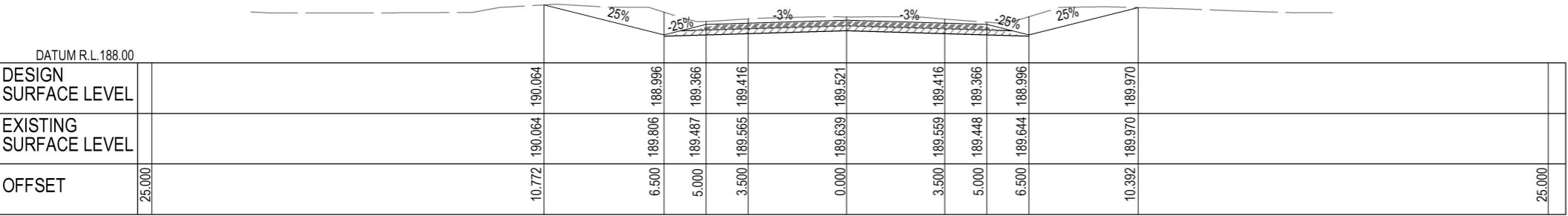
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SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3)

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SCALES - Hor. 1:200 (A3) Ver. 1:200 (A3)

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3	FOR REVIEW	22/12/2023

M.KASINADHUNI	I. JOHNSON
DESIGN	MIW



LEGEND

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PLAN

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PAVEMENT MARKING LEGEND

3	FOR REVIEW	22/12/2023
2	FOR REVIEW	24/11/2023
1	FOR REVIEW	08/09/2023
No.	Revision	Date

General Notes:

M.KASINADHUNI

I. JOHNSON

DESIGN

MIW

N. GARVEY

P. MEREDITH

MTS

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GREVILLEA CREEK DRUMBURLE RD, THANGOOL

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Sheet

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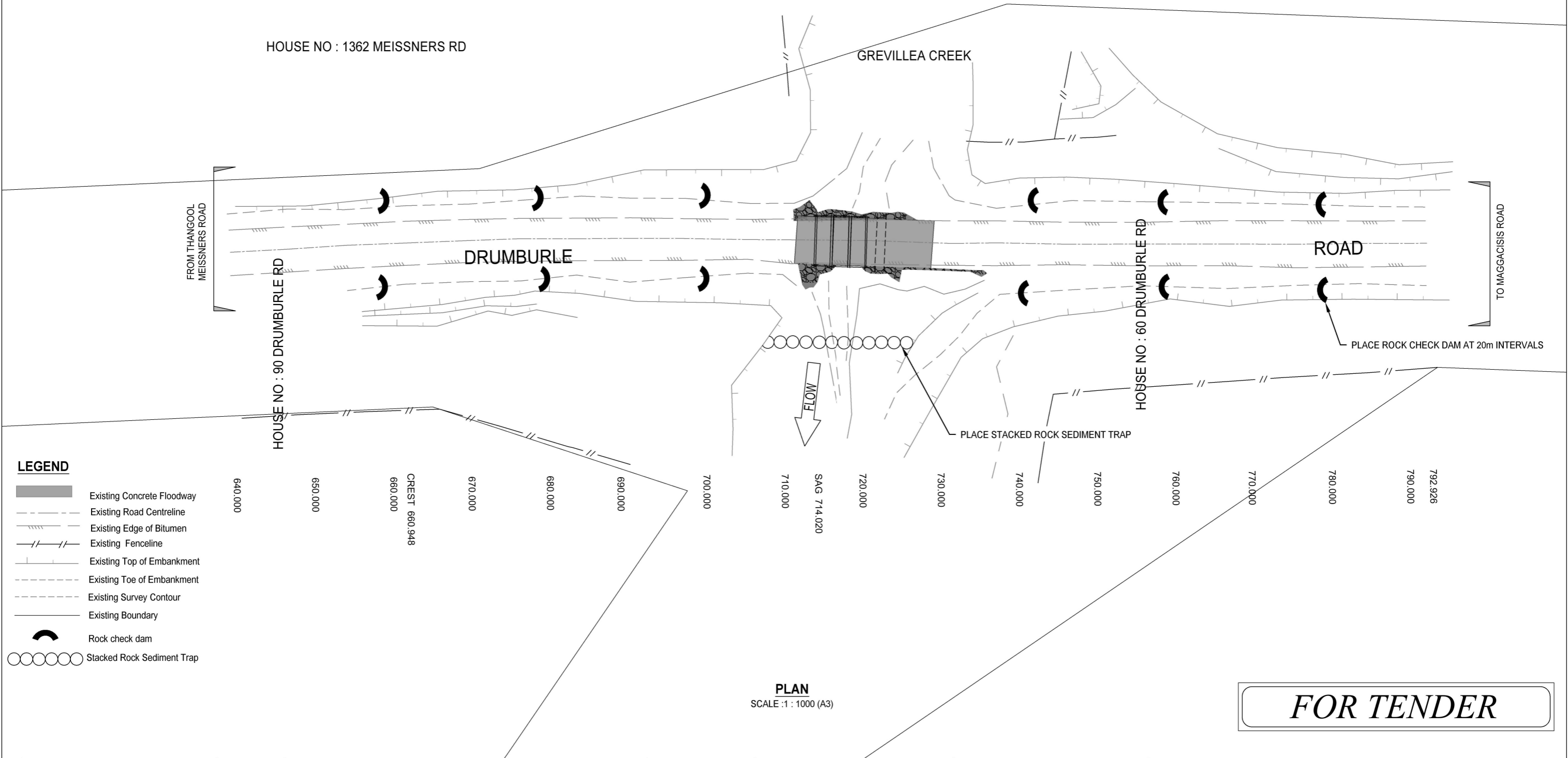
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			M.KASINADHUNI		I. JOHNSON		 	GREVILLEA CREEK DRUMBURLE RD,THANGOOL						
			DESIGN		MIW			FLOODWAY AND CULVERT RESTORATION						
			N. GARVEY		P. MEREDITH			SEDIMENT AND EROSION CONTROL PLAN						
			MTS		DIS RPEQ 15268									
No.	Revision	Date	General Notes:				Scale		Dwg. No.		Sheet		Issue	
							AS SHOWN		5520-2383-0138-015		15 OF 16		1	

ADDITIONAL MATTERS

A1 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR
SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTE

A2 ALL EXISTING TREES (IF ABLE) ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

A PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED
OUTSIDE THE DRIP LINE.

B ENSURING THAT NOTHING IS NAILED TO THEM.

C PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.

ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5m OR HALF DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER.

II A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (EG, A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300mm DEPTH.

III CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

GENERAL INSTRUCTIONS

G1 THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED BY COUNCIL'S SUPERVISOR RELATING TO THE MANAGEMENT OF THE SUBJECT SITE.

G2 THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION OR IN ANY SUBSEQUENT SITE INSTRUCTION.

G3 ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES BY THE SITE SUPERINTENDENT IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

EROSION CONTROL

E1 TEMPORARY PROTECTION FROM WIND AND WATER EROSION WILL BE UNDERTAKEN ON LANDS WHERE WORKS ARE UNLIKELY TO PROCEED FOR PERIODS OF AT LEAST TWO MONTHS AND FINAL SHAPING HAS NOT BEEN COMPLETED (EG, TOPSOIL STOCKPILES). THIS MAY BE ACHIEVED WITH A VEGETATIVE COVER.

E2 DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER FOR DUST CONTROL.

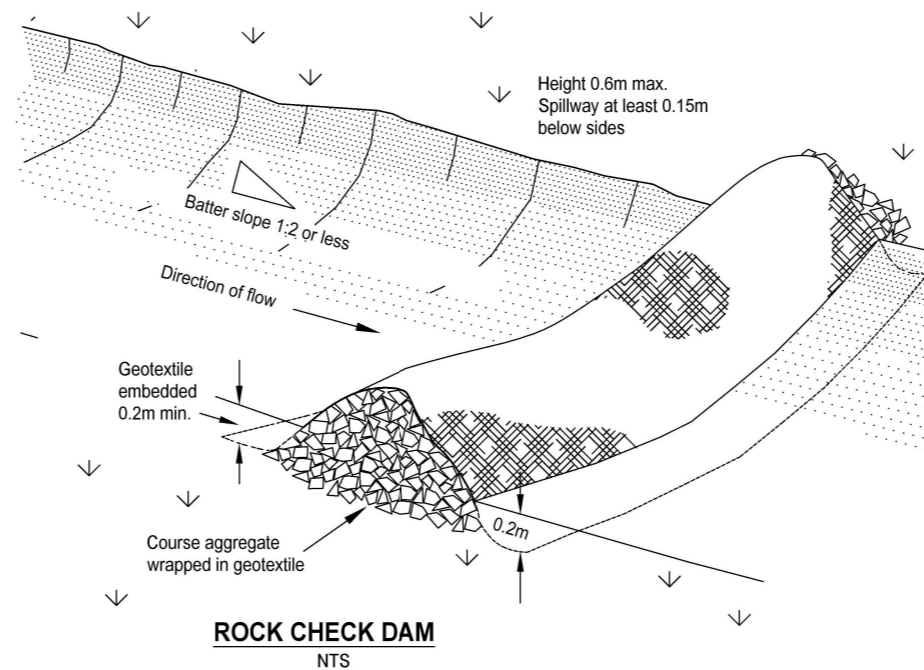
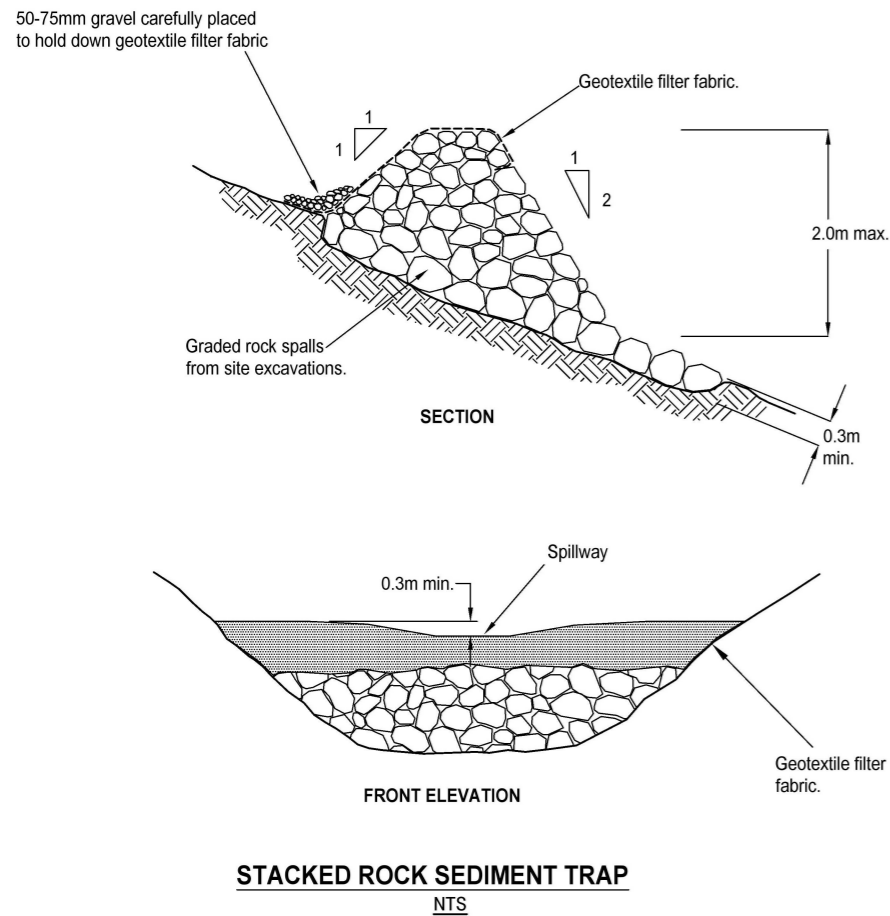
LAND DISTURBANCE

L1 THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE
E. AND PRACTICAL. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE
FOLLOWING GENERAL SEQUENCE:

A REHABILITATION OF ANY OTHER DISTURBED LANDS WITH 20 WORKING DAYS.

B UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE
ENGINEERING PLANS. WHERE POSSIBLE - THE CONTRACTOR IS TO PHASE
DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF
WORKABLE SIZE.

L2 ALL BATTERS ARE TO BE TOPSOILED AND REVEGETATED TO PREVENT EROSION AT COMPLETION OF THE EARTHWORKS



INSPECTION AND MAINTENANCE

M1 RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY COUNCIL'S SUPERVISOR AND GENERALLY OFF SITE.

M2 AT LEAST WEEKLY, THE CONTRACTOR WILL INSPECT THE SITE AND ENSURE THAT:

A DRAINS OPERATE EFFECTIVELY AND INITIATE REPAIR OR MAINTENANCE AS

B SPILLED SOIL (OR OTHER MATERIAL) IS REMOVED FROM HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, GUTTERS, PAVED AREAS AND DRIVEWAYS.

C SEDIMENT IS REMOVED FROM ALL TRAPS WHEN LESS THAN 20m OF TRAPPING CAPACITY REMAIN PER 1,000m OF DISTURBED LANDS. ANY COLLECTED SEDIMENT WILL BE DISPOSED OF IN AREAS WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS IS UNLIKELY.

D REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND INITIATE UPGRADING OR REPAIRS AS APPROPRIATE.

SEDIMENT CONTROL


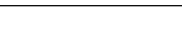
S1 STOCKPILES ARE NOT BE LOCATED WITHIN 2m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS. WHERE THEY ARE BETWEEN 2m AND 5m FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, EG, THROUGH INSTALLATION OF "SILT" FENCING.

S2 ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) IS TO BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

S3 WATER IS TO BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

S4 TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES ARE TO BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED AND WHEN REMOVAL IS APPROVED BY THE SITE SUPERINTENDENT.

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				DESIGN	MIW			FLOODWAY AND CULVERT RESTORATION							
3	FOR REVIEW	22/12/2023		N. GARVEY	P. MEREDITH			SEDIMENT AND EROSION CONTROL MEASURES							
2	FOR REVIEW	24/11/2023						Scale	AS SHOWN	Dwg. No.	5520-2383-0138-016	Sheet	16 OF 16	Issue	1
1	FOR REVIEW	08/09/2023													
No.	Revision	Date		MTS	DIS			RPEQ	15268						