

LORNE STREET, MUSWELLBROOK

KERB UPGRADE

SHEET INDEX

SHEET 0	COVER AND SHEET INDEX
SHEET 1	GENERAL NOTES
SHEET 2	EROSION AND SEDIMENT NOTES
SHEET 3	GENERAL ARRANGEMENT CH0 - CH134.7
SHEET 4	GENERAL ARRANGEMENT CH134.7 - CH216.39
SHEET 5	GENERAL ARRANGEMENT BOX CULVERT
SHEET 6	BOX CULVERT DETAIL
SHEET 7	LONGITUDINAL SECTIONS - CENTRELINE
SHEET 8	LONGITUDINAL SECTION - LEFT LIP
SHEET 9	LONGITUDINAL SECTIONS - RIGHT LIP
SHEET 10	KERB RETURNS 1 & 2
SHEET 11	KERB RETURNS 3 & 4
SHEET 12	DETAILS
SHEET 13	MSC STANDARD FOOTPATH DETAIL
SHEET 14	CROSS SECTIONS CH15 - 30
SHEET 15	CROSS SECTIONS CH45 - 60
SHEET 16	CROSS SECTIONS CH75 - 90
SHEET 17	CROSS SECTIONS CH105 - 120
SHEET 18	CROSS SECTIONS CH135 - 150
SHEET 19	CROSS SECTIONS CH165 - 180
SHEET 20	CROSS SECTIONS CH195 - 210
SHEET 21	DRAINAGE LINE 1



LOCALITY PLANS
N.T.S.

PLANS PREPARED BY		CLIENT	LORNE STREET KERB UPGRADE		SCALE: DO NOT SCALE	A	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co. REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN <i>Surveying the Hunter since 1920</i> Ph: 02 65432475 Email: office@hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		CLIENT: MUSWELLBROOK SHIRE COUNCIL	LORNE STREET, MUSWELLBROOK		LGA: MUSWELLBROOK	B	BOX CULVERT ADDED	REV: B
			DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 0			JOB REF: 221259

GENERAL

CG1. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR CIVIL ENGINEERING PURPOSES ONLY. ALL DISCREPANCIES WITH OTHER CONSULTANTS DOCUMENTATION THAT COULD RESULT IN CHANGES TO THE CIVIL ENGINEERING DETAILS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CG2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH MUSWELLBROOK SHIRE COUNCIL GUIDELINES AND/OR AS DIRECTED BY THE SUPERINTENDENT.

CG3. SERVICES INFORMATION SHOWN ON THESE PLANS IS FOR INFORMATION PURPOSES ONLY AND SHALL NOT BE RELIED UPON BY ANY PERSONS USING THESE PLANS. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR OR ANY OTHER PERSONS TO LOCATE AND LEVEL ALL EXISTING SERVICES AND UTILITIES PRIOR TO COMMENCING ANY WORKS ON THE SITE AND TO PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY.



CG4. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER AND SUPERINTENDENT.

CG5. CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS, ETC. TO THE EXTENT SPECIFIED.

CG6. THE SITE SHALL BE KEPT CLEAN AND CLEAR OF RUBBISH AT ALL TIMES. RUBBISH STORAGE AREAS DISPOSAL AREAS SHALL BE KEPT CLEAR DRAINAGE PATHS

CG7. ALL SITE REGRADING AREAS SHALL BE FINALLY GRADED AND SEED AS SOON AS PRACTICABLE AFTER FORMATION TO THE SATISFACTION OF THE SUPERINTENDENT.

CG8. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.

CG9. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.

EARTHWORKS

BE1. EROSION AND SEDIMENTATION CONTROL SHALL BE IN PLACE AND APPROVED PRIOR TO ANY SITE DISTURBANCE

BE2. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS, FENCES etc. AND REMOVE FROM SITE.

BE3. STRIP TOPSOIL AVERAGE 100mm THICK WHICH SHALL BE RETAINED ON SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE REVEGETATION.

BE4. EXCESS FILL SHALL BE REMOVED FROM SITE TO A LOCATION AS AGREED AND APPROVED WITH COUNCIL

BE5. IN AREAS OF CUT OR IN EXISTING GROUND, PRIOR TO ANY FILLING, PROOF ROLL THE EXPOSED SURFACE IN ACCORDANCE WITH CLAUSE 5.4 OF AS 3798 ENSURING THAT ADJACENT STRUCTURES ARE NOT DAMAGED DURING WORKS.

BE6. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT $\pm 2\%$.

BE7. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUBGRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.

BE8. ALL WORK SHALL BE IN ACCORDANCE WITH AS 3798. FILL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. ALL FILL IS TO BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY. MAXIMUM PARTICLE SIZE SHALL BE 2/3 OF THE LAYER THICKNESS

BE9. ALL BATTERS AND VERGES ADJACENT TO ROADS AND ALL AREAS WHERE FILLING HAS BEEN PLACED ARE TO BE DRESSED WITH 100mm CLEAN ARABLE TOPSOIL, FERTILIZED AND SOWN

NOTE: WORK IN COUNCIL ROADS REQUIRE s138 CERTIFICATE PRIOR TO WORKS BEING STARTED

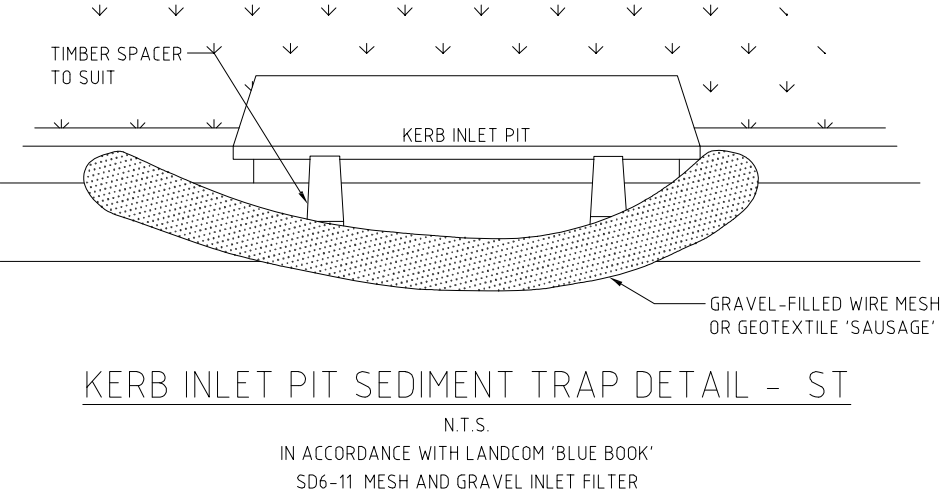
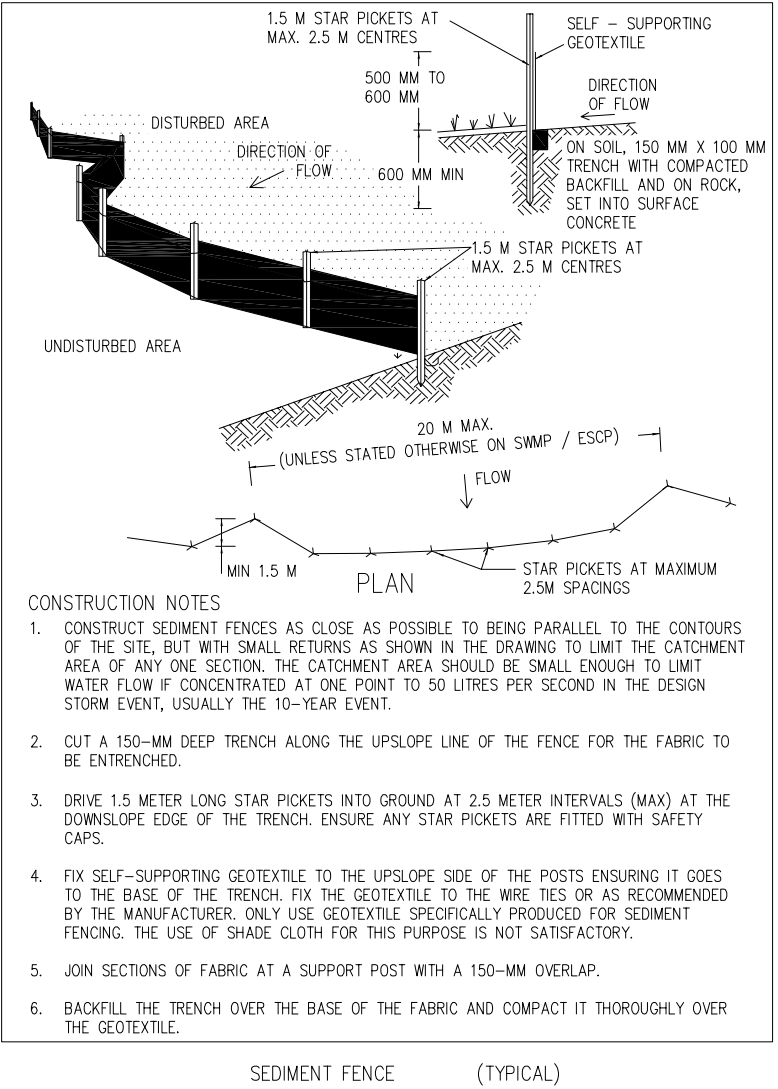
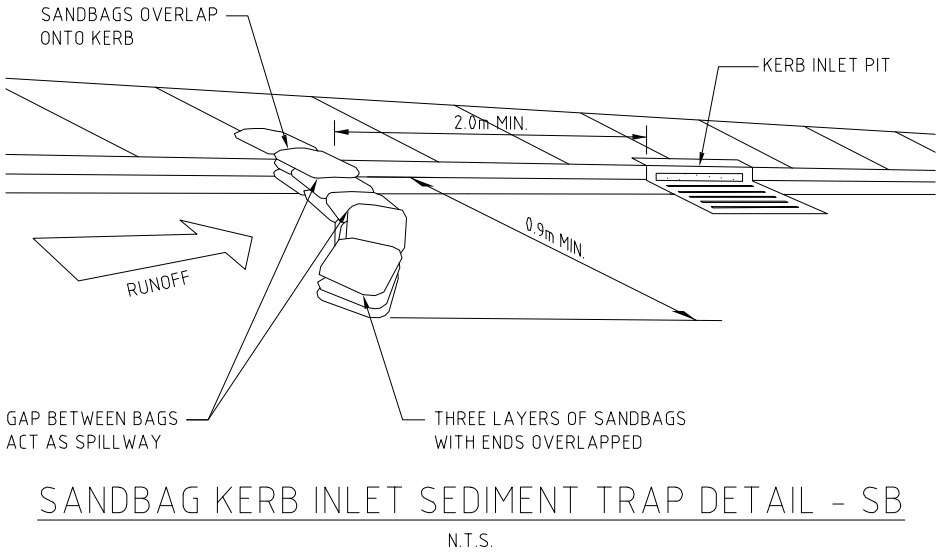
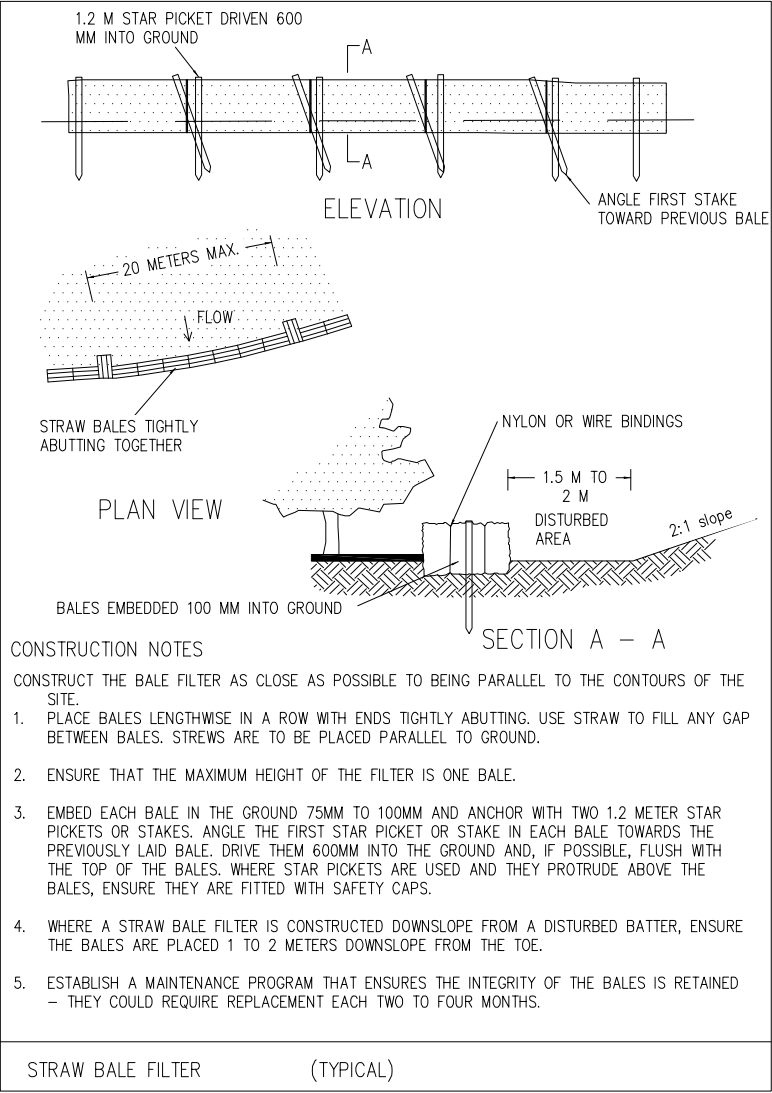
ORIGINAL DRAWINGS ARE IN COLOUR


1. ONLY USE PLANS THAT ARE IN COLOUR.

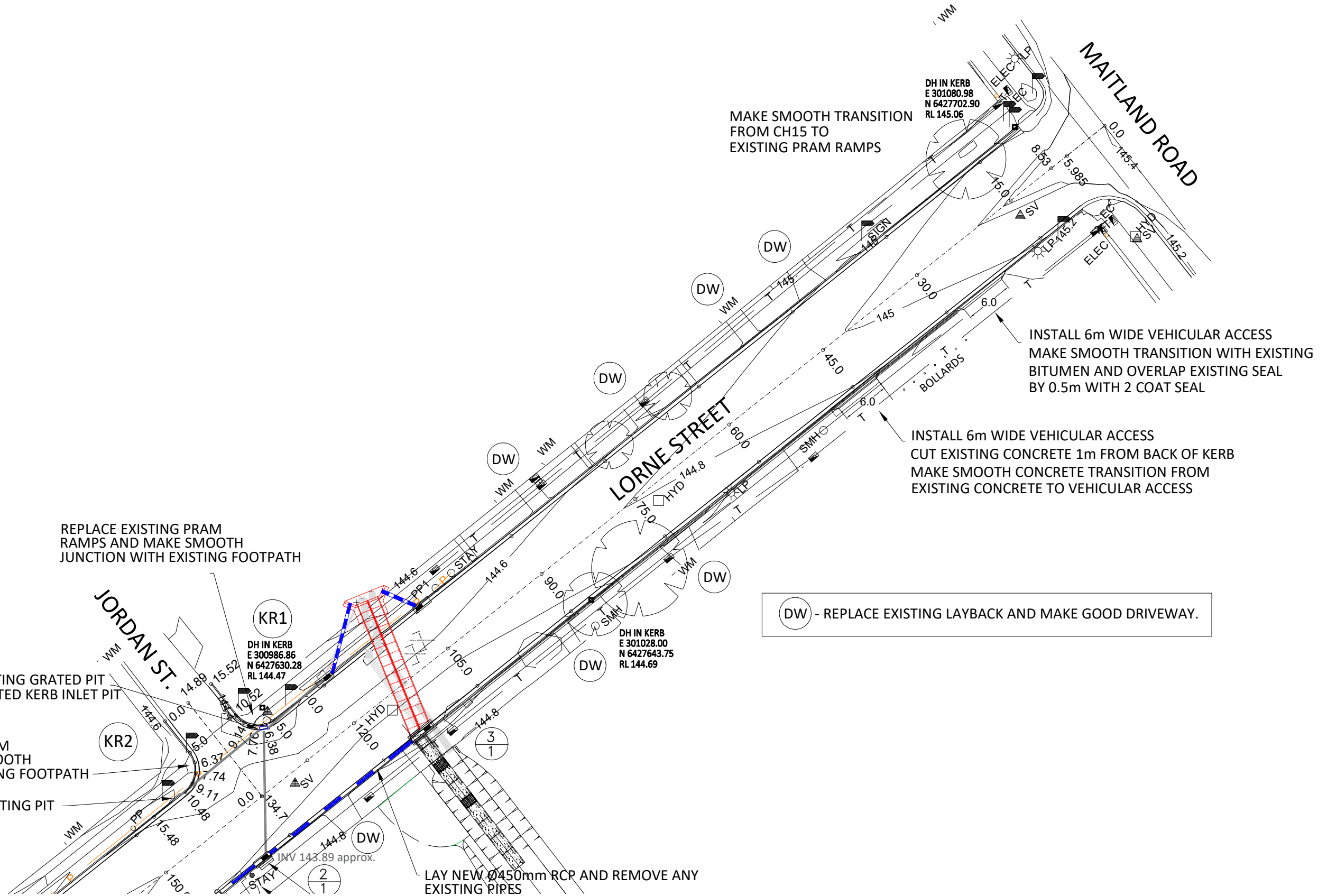
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MM HYNDES BAILEY & Co. REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN <i>Surveying the Hunter since 1920</i> Ph: 02 65432475 Email: office@hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		CLIENT: MUSWELLBROOK SHIRE COUNCIL	GENERAL NOTES		LGA: MUSWELLBROOK	B	BOX CULVERT ADDED	REV: B
			DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 1			JOB REF: 221259


EROSION AND SEDIMENT CONTROL

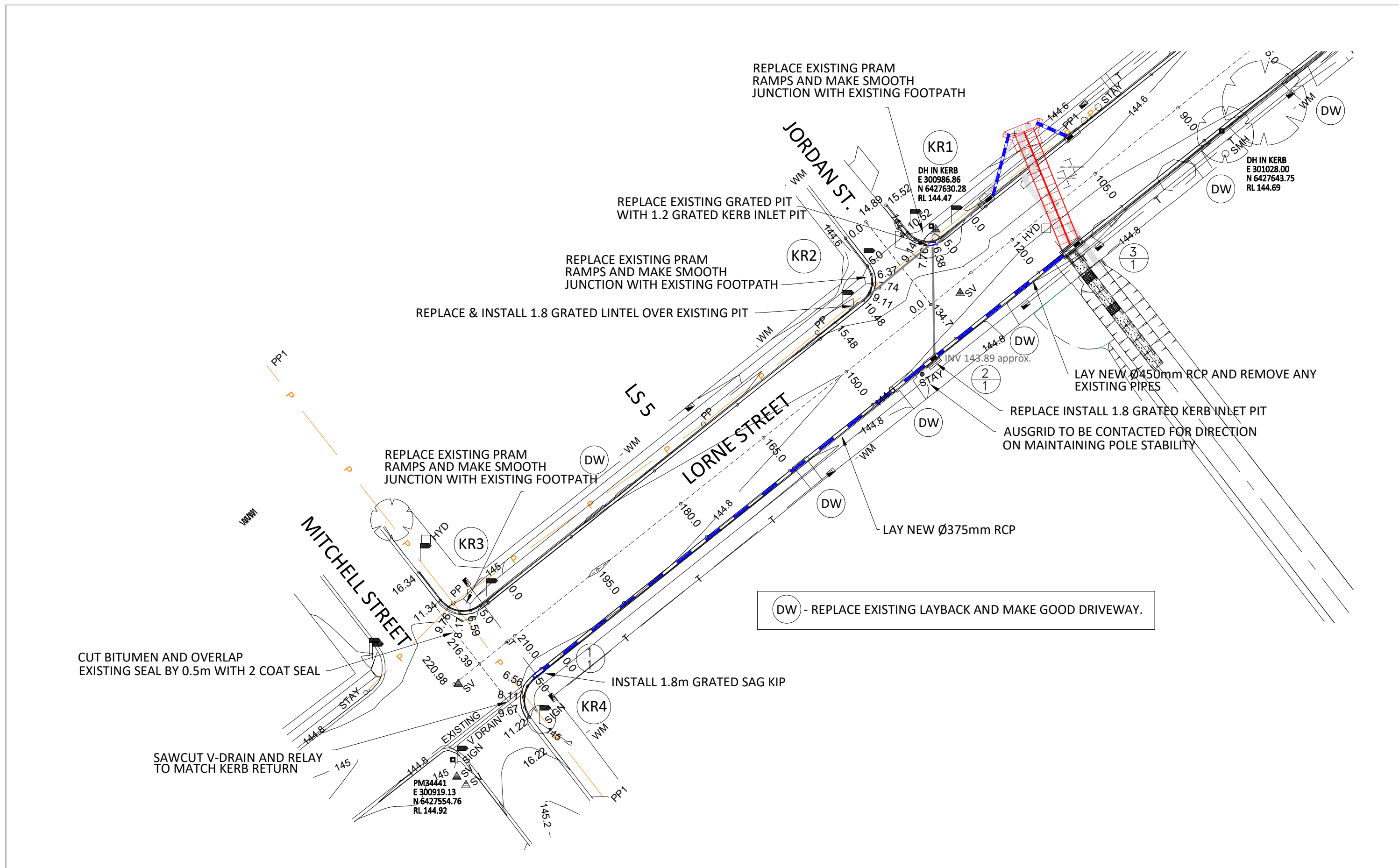
1. All works to be carried out in accordance with "MUSWELLBROOK DCP 2015", "Soils and Construction: Managing Urban Stormwater" (LANDCOM), "Pollution Control Manual for Urban Stormwater" (EDA), "Soil and Water Management for Urban Development" (D of H).
2. Erosion and sedimentation control devices are to be installed as required prior to site disturbance.
3. Site disturbance and vegetation removal shall be kept to the absolute minimum.
4. Silt is to be cleared from devices after all storm events.
5. All control devices are to be checked and maintained on a regular basis and adjustments made as necessary to ensure effective on going control.
6. All control devices are to be in place at the end of each days work.
7. Earthworks shall be rolled at the end of each day for stabilisation.
8. Topsoil shall be removed, stockpiled and stabilised for later re-use.
9. Excavated soil is to be mounded on the up hillside of trenches wherever possible.
10. Tabledrains shall be topsoiled seeded and stabilised with jutemesh pinned down in accordance with manufactures instructions.
11. Cut and fill batters and table drains are to be stabilised and seeded as soon as practicable on completing the formation.
12. Sediment control devices and stormwater diversion are to be used to keep any new drainage lines and pits free of silt.
13. Denuded areas are to be topsoiled and seeded as soon as practicable. (See Landscape Plans.)
14. Turf strips are to be placed perpendicular to the direction flow.
15. Stockpile sites are to be selected such that are not in natural drainage paths.
16. A sediment fence is to be place along the full length of the down stream side of any stockpile.
17. Staked hay bales shall be placed immediately upstream of the inlet and at the outlet of all culverts.
18. Batters are to be mulched and seeded IMMEDIATELY after formation. The contractor is to ensure that the area is fully vegetated and stabilised before leaving the site.




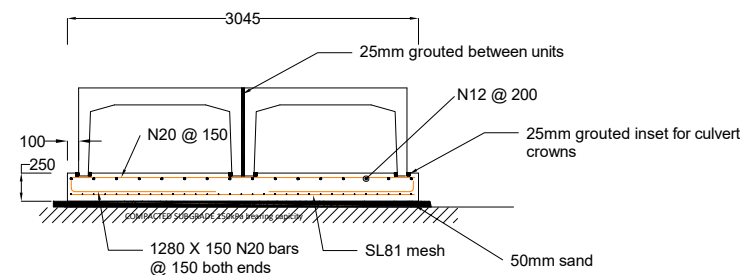
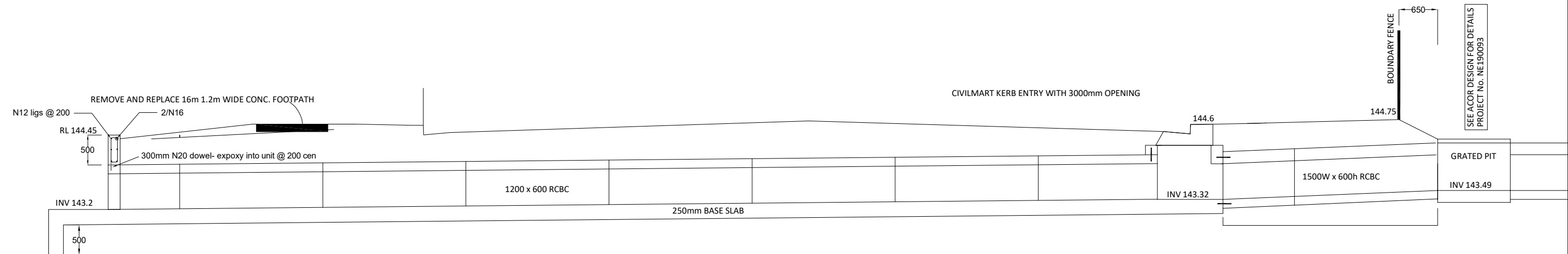
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<div>MM HYNDES BAILEY & Co.</div> <div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div> <div>Surveying the Hunter since 1920</div> <div></div> <div>Ph: 02 65432475 Email: office @hbsurveys.com.au</div> <div>PO Box 26, MUSWELLBROOK NSW 2333</div>		CLIENT: MUSWELLBROOK SHIRE COUNCIL				LGA: MUSWELLBROOK		B	BOX CULVERT ADDED	REV: B
				DESIGN: M. COLE DRAWN: M. COLE		DRAWING NO. SHEET 2				JOB REF: 221259



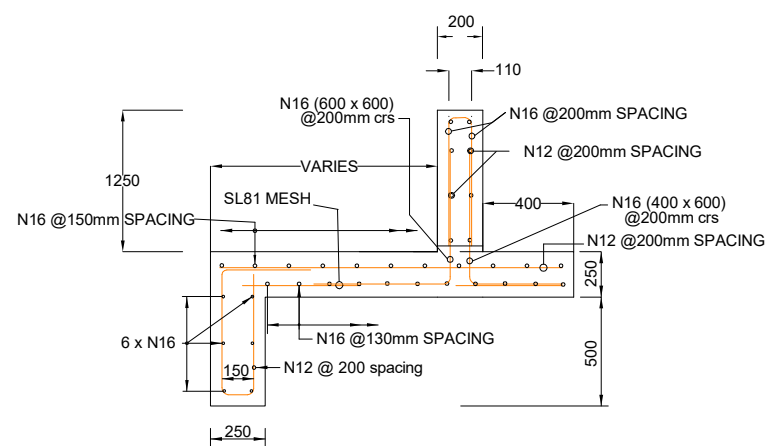
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<div>MM HYNDES BAILEY & Co.</div> <div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div> <div>Surveying the Hunter since 1920</div> <div><div>Ph: 02 65432475</div><div>Email: office @hbsurveys.com.au</div><div>PO Box 28, MUSWELLBROOK NSW 2333</div></div> <div></div>		CLIENT: MUSWELLBROOK SHIRE COUNCIL				LGA: MUSWELLBROOK		B	BOX CULVERT ADDED	REV: B
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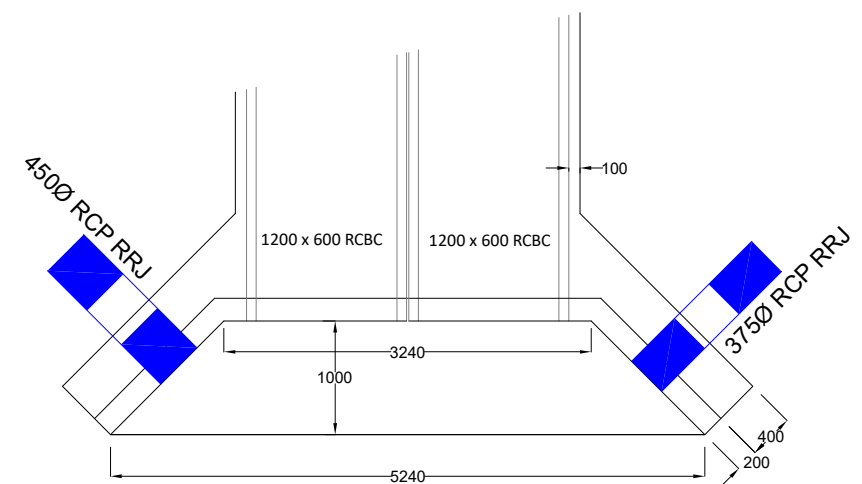
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<div>MM HYNDES BAILEY & Co.</div> <div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div> <div>Surveying the Hunter since 1920</div> <div><div>Ph: 02 65432475 Email: office @hbsurveys.com.au</div><div>PO Box 26, MUSWELLBROOK NSW 2333</div></div> <div></div>		CLIENT: MUSWELLBROOK SHIRE COUNCIL				LGA: MUSWELLBROOK		B	BOX CULVERT ADDED	REV: B
				DRAWING NO. SHEET 4				JOB REF: 221259		



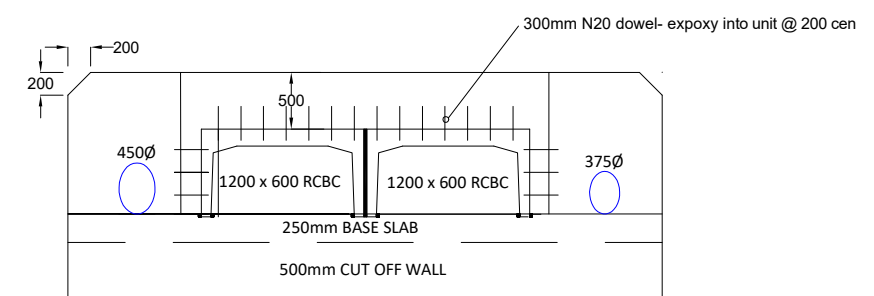
CULVERT BASE DETAIL



WING AND CUT OFF WALL DETAIL



HEADWALL PLAN VIEW

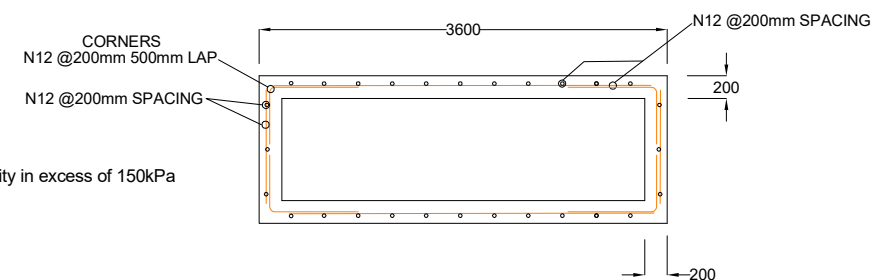


HEADWALL END VIEW

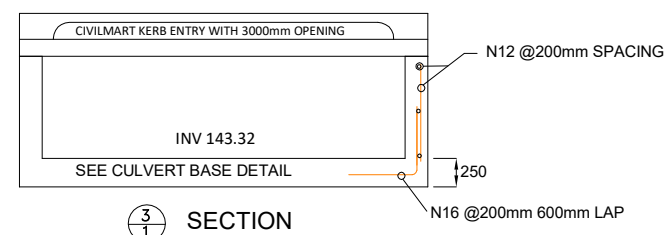
NOTES:

1. Footings shall be founded onto sound natural material with a bearing capacity in excess of 150kPa
2. Concrete design is based on Exposure Classification A1 - AS 3600-2001.
3. Concrete strength shall be 32MPa.
4. Reinforcing steel shall be grade D500N to AS/NZS 4671.
5. Mesh fabric shall to AS1304.
6. Cover to concrete shall be 40mm.
7. Mesh shall be overlapped a minimum of 225mm.
8. Minimum bar laps shall be as follows:

N12	300mm
N16	500mm
N20	600mm

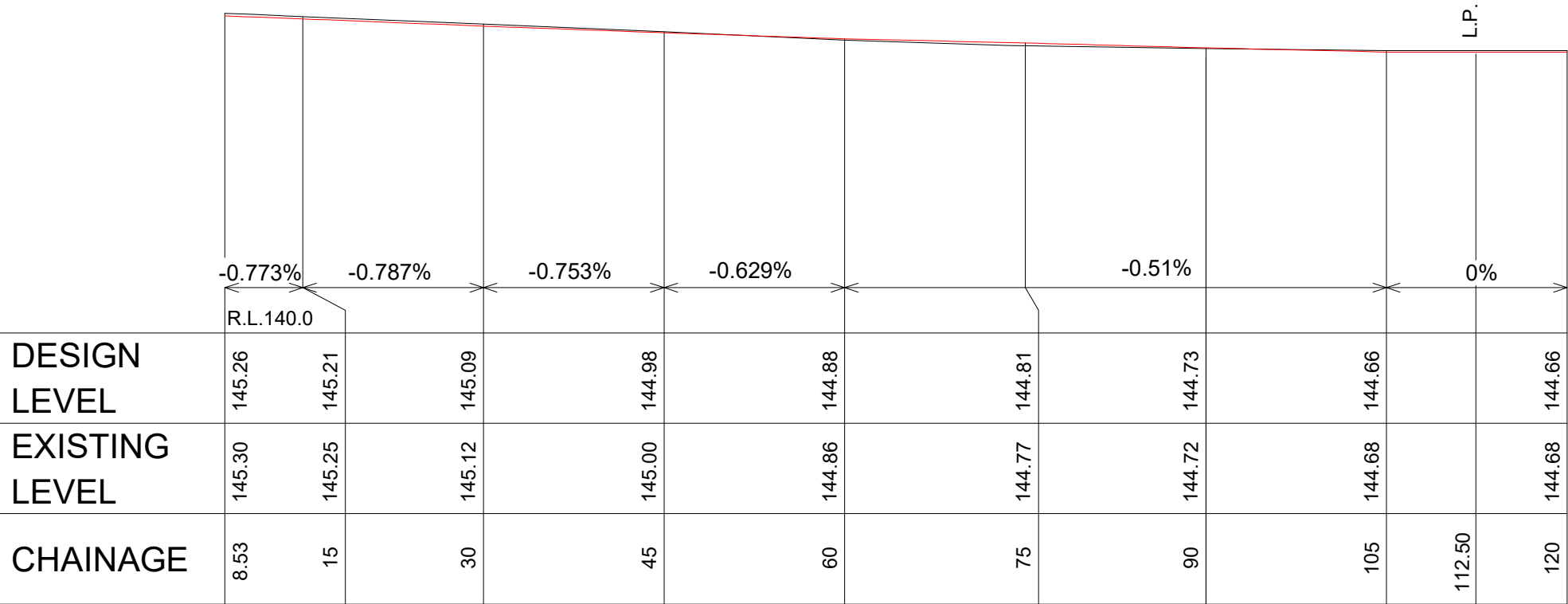


PIT PLAN VIEW DETAIL



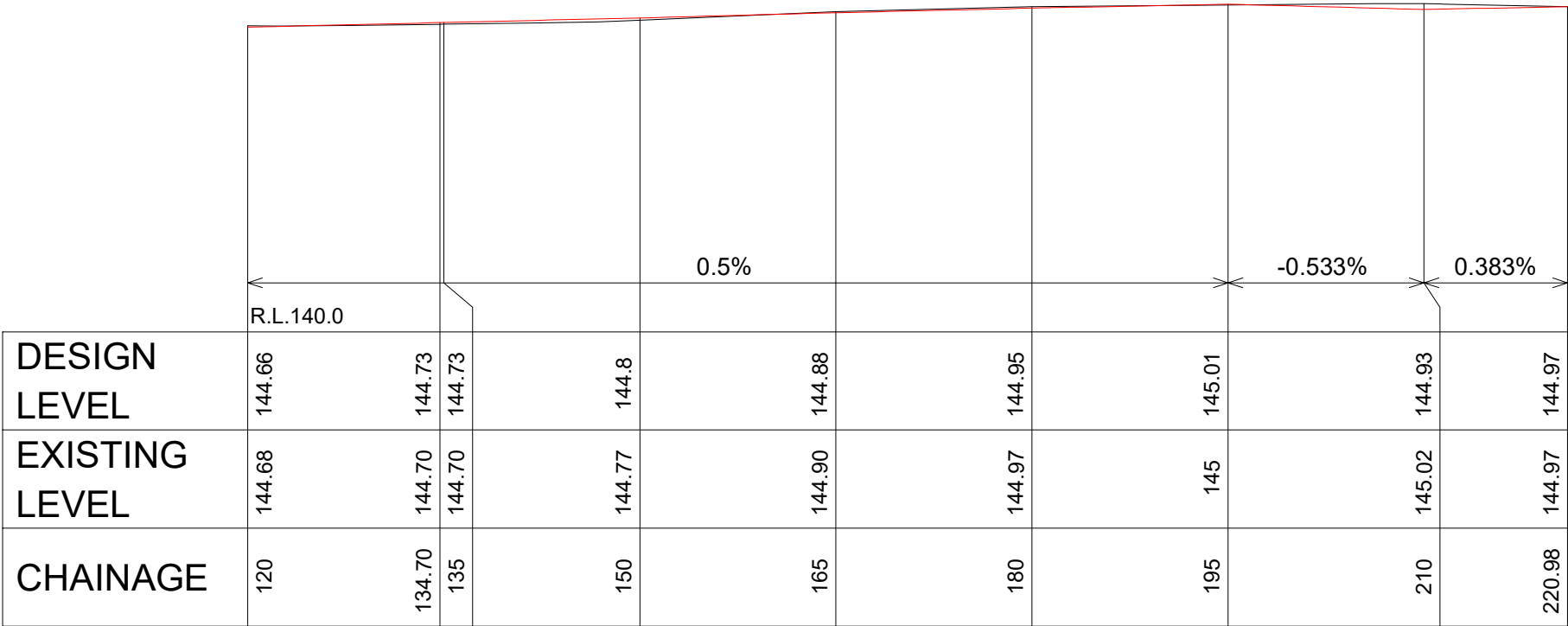
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PLANS PREPARED BY		CLIENT		LORNE STREET KERB UPGRADE BOX CULVERT DETAILS		SCALE: 1:500 (A3)	A	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co. REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN <i>Surveying the Hunter since 1920</i> Ph: 02 65432475 Email: office@hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		CLIENT: MUSWELLBROOK SHIRE COUNCIL		DESIGN:	DRAWN:	LGA: MUSWELLBROOK			REV: B
				M. COLE	M. COLE	DRAWING NO. SHEET 6			JOB REF:
									221259



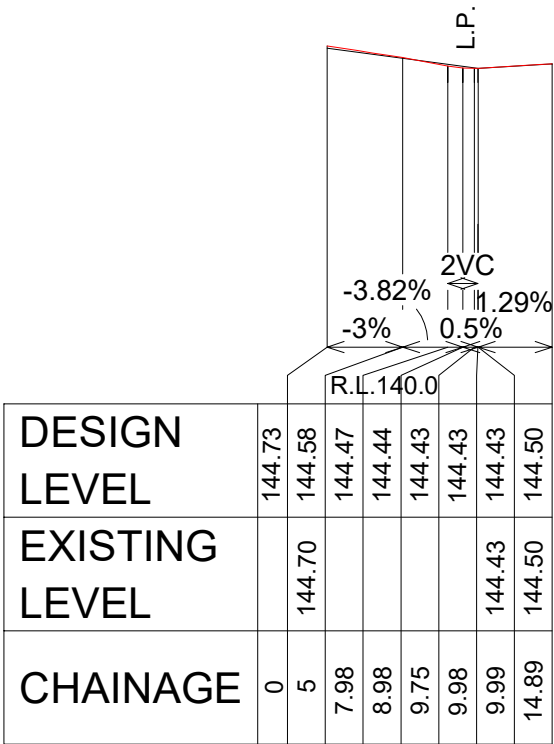
LORNE STREET

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LORNE STREET

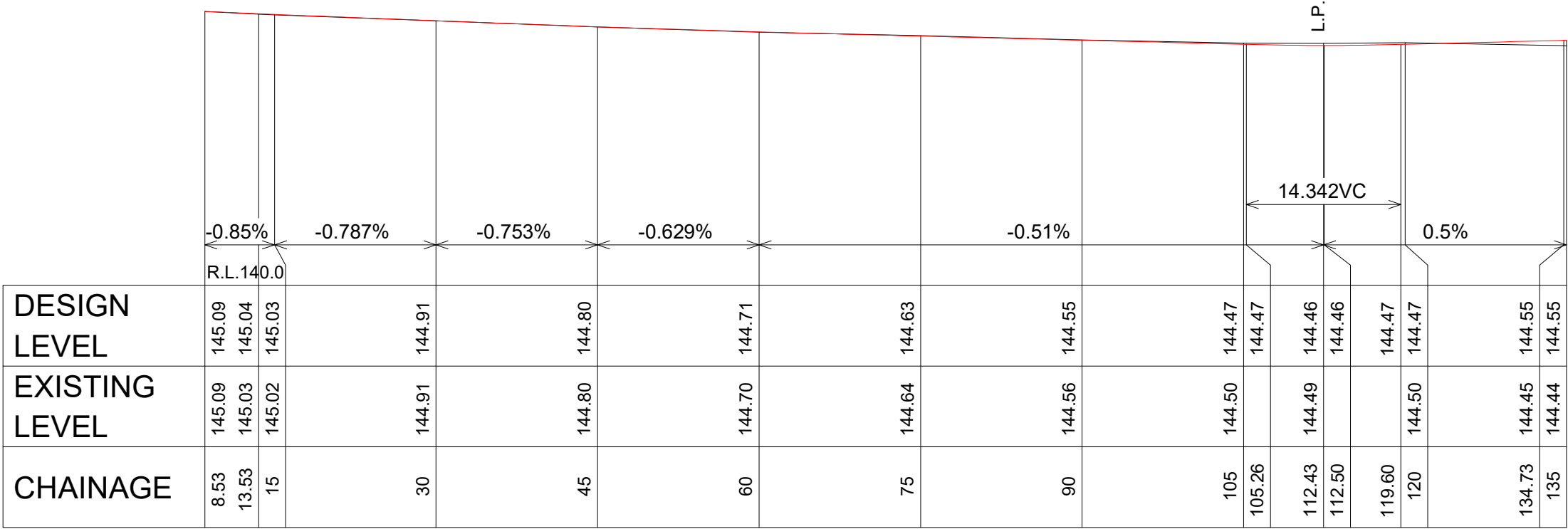
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JORDAN ST.

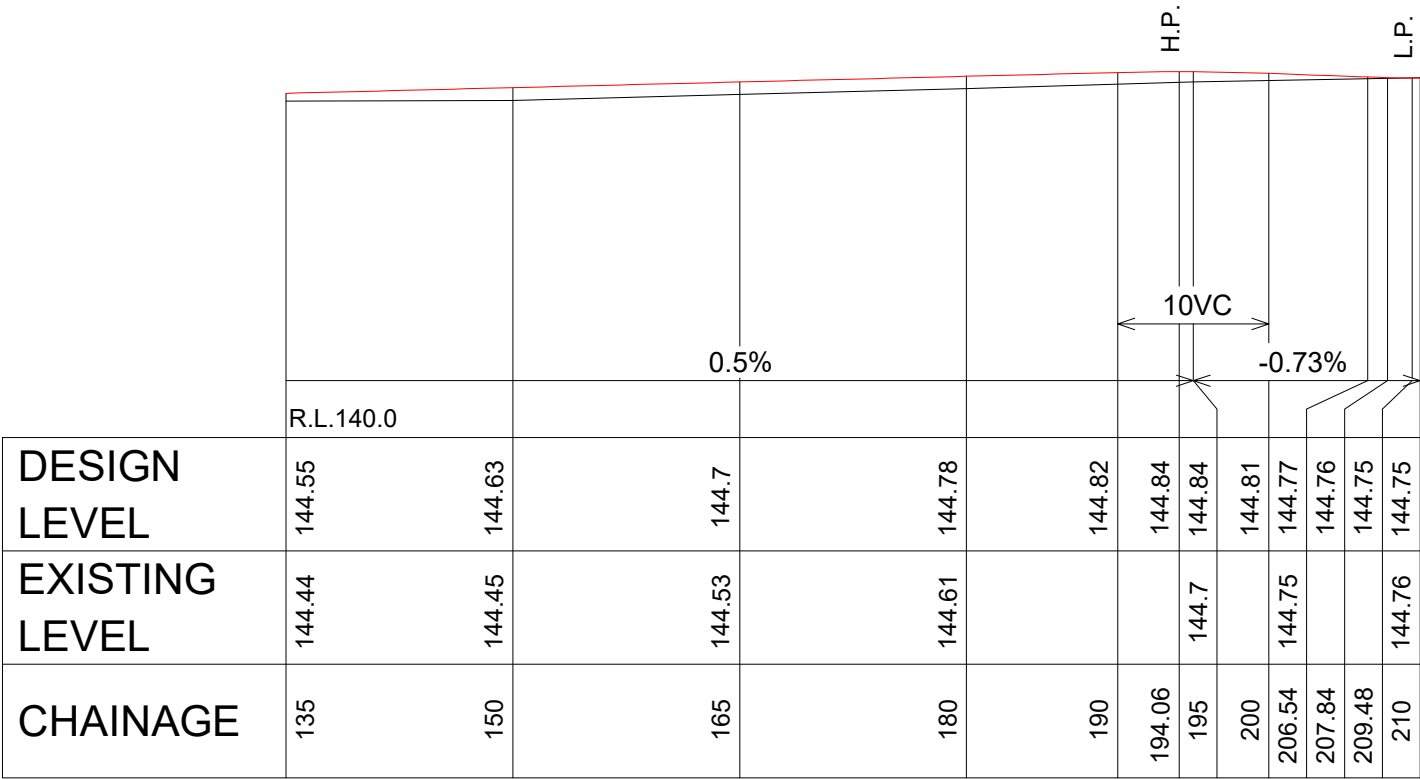
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PLANS PREPARED BY		CLIENT		LORNE STREET KERB UPGRADE		SCALE: AS SHOWN (A3)		A	ISSUED TO CLIENT	20/12/2021
<div>MM HYNDES BAILEY & Co. REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN Surveying the Hunter since 1920</div> <div>Ph: 02 65432475 Email: office@hbsurveys.com.au PO Box 28, MUSWELLBROOK NSW 2333</div> <div>HB</div>		CLIENT: MUSWELLBROOK SHIRE COUNCIL		LONGITUDINAL SECTIONS - CENTRELINE		LGA: MUSWELLBROOK		B	BOX CULVERT ADDED	REV: B
				DESIGN: M. COLE		DRAWN: M. COLE				
						DRAWING NO. SHEET 7				JOB REF: 221259




LORNE STREET - LEFT LIP

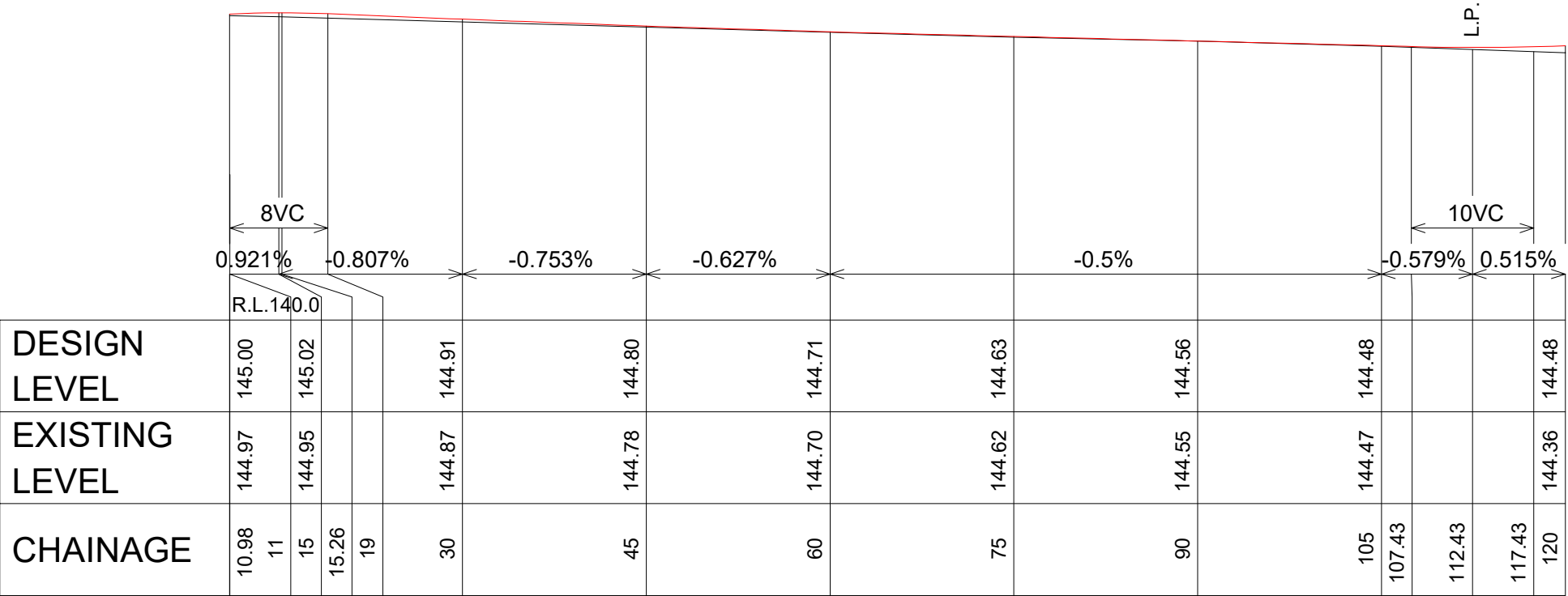
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LORNE STREET - LEFT LIP

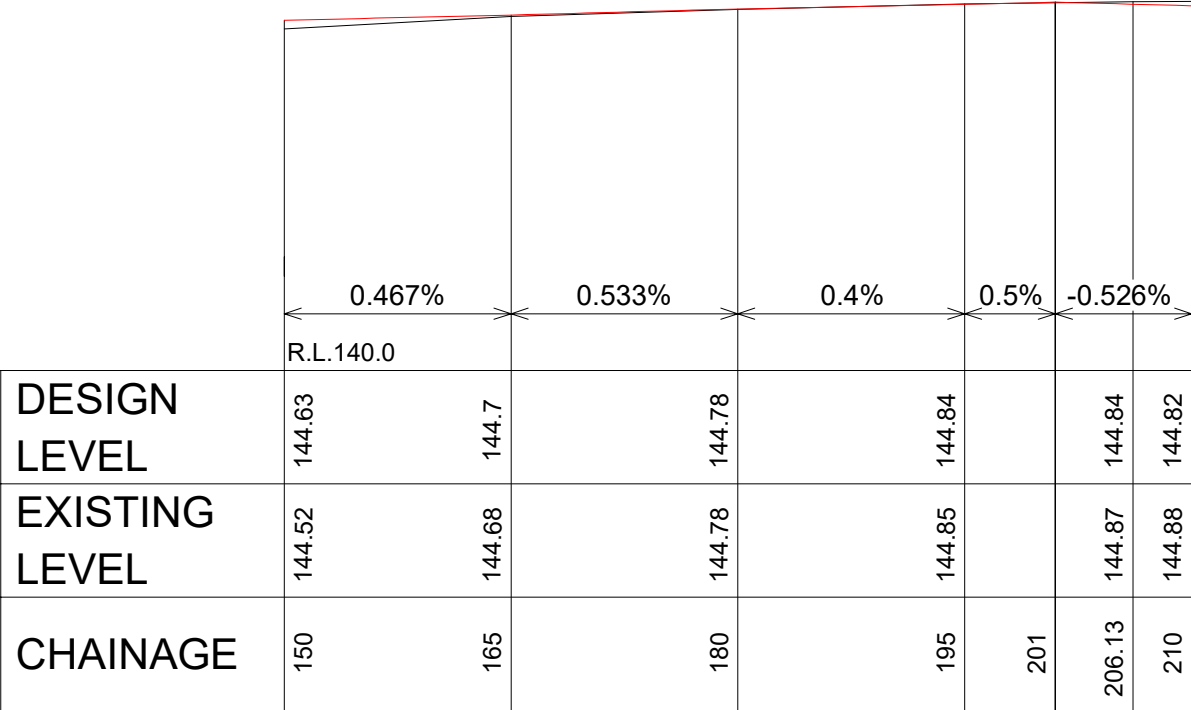
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				DESIGN: M. COLE		DRAWN: M. COLE				
				DRAWING NO. SHEET 8						JOB REF: 221259




LORNE STREET - RIGHT LIP

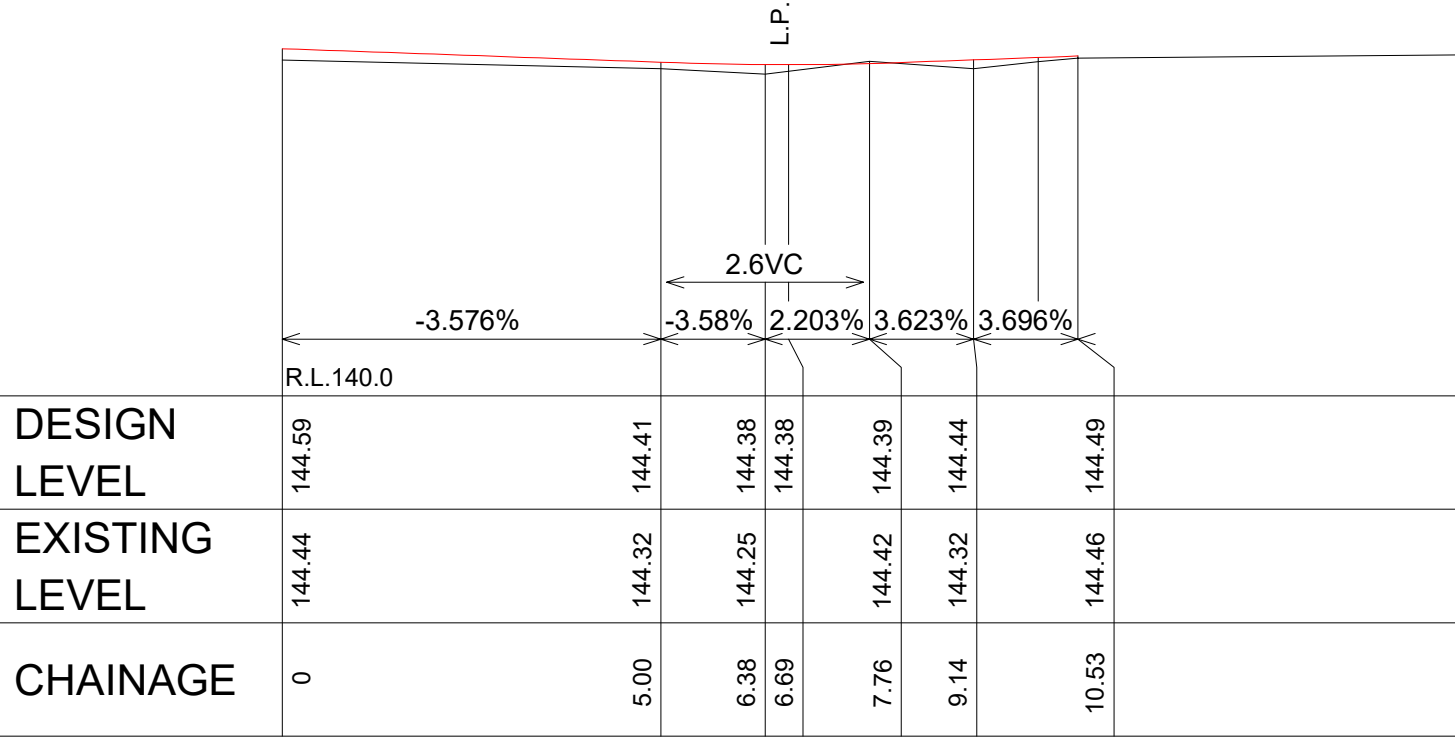
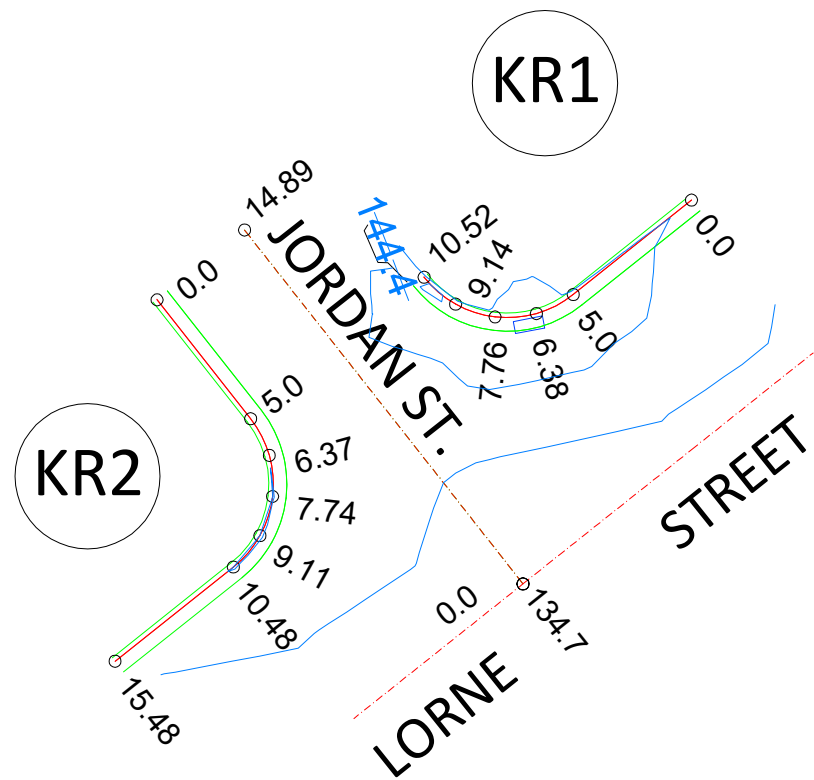
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LORNE STREET - RIGHT LIP

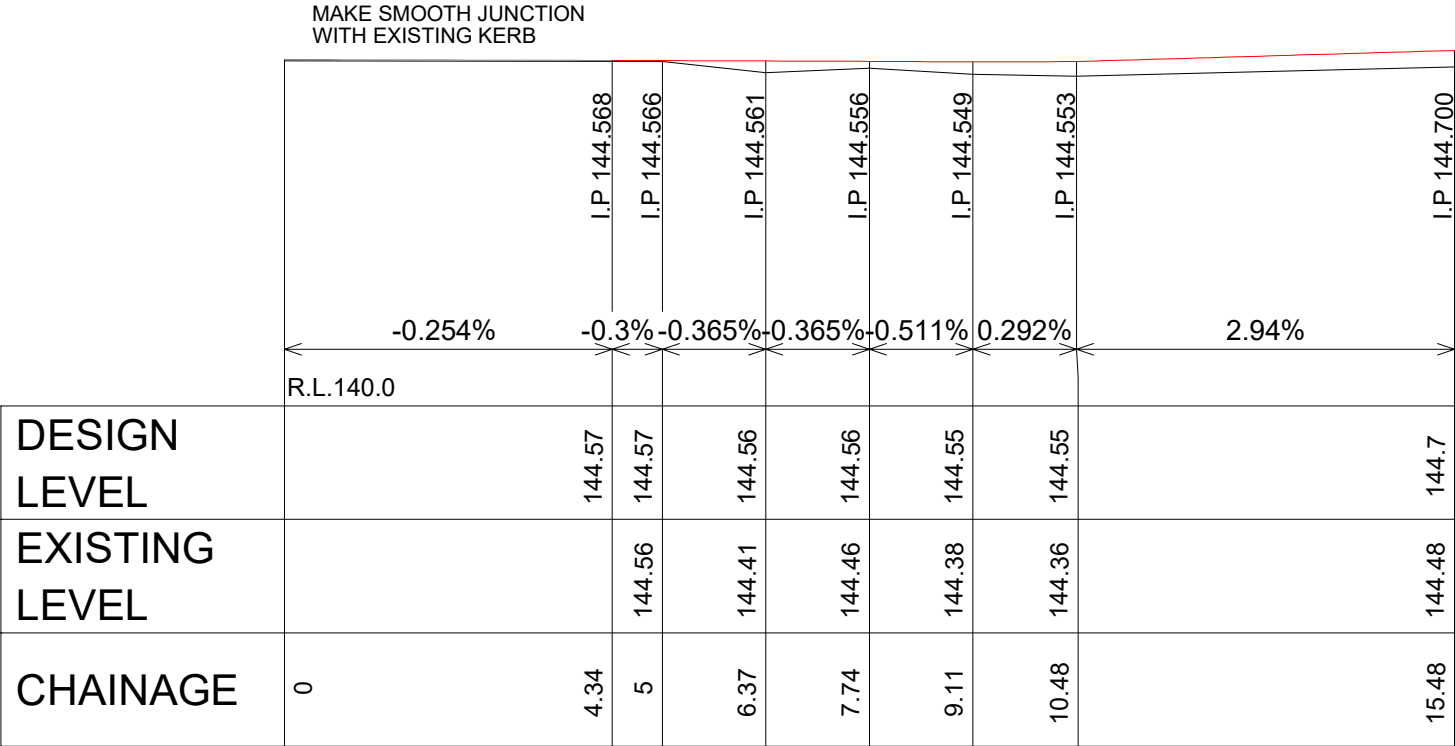
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PLANS PREPARED BY		CLIENT		LORNE STREET KERB UPGRADE		SCALE: AS SHOWN (A3)		A	ISSUED TO CLIENT	20/12/2021
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				LGA: MUSWELLBROOK				JOB REF: 221259		
				DESIGN: M. COLE		DRAWN: M. COLE			DRAWING NO. SHEET 9	




KERB RETURN 1

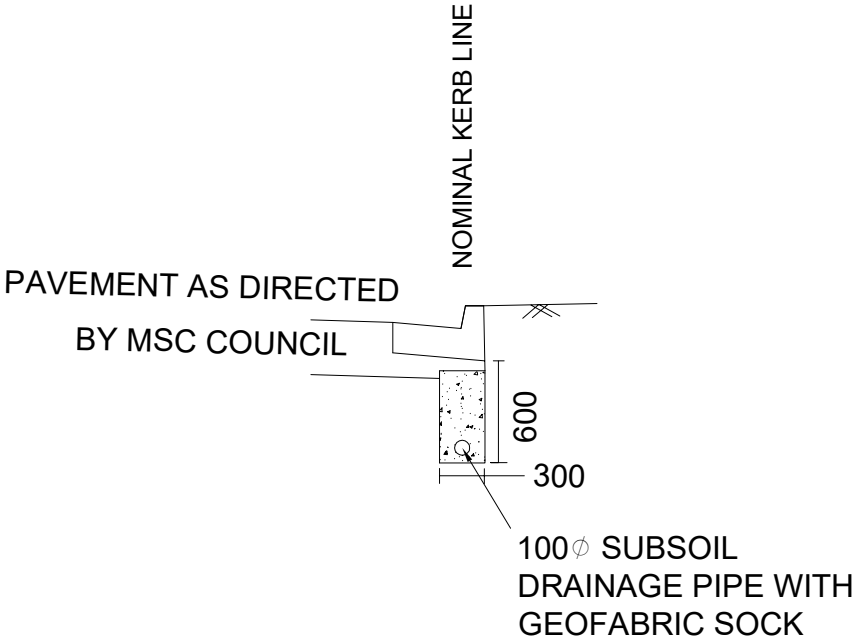
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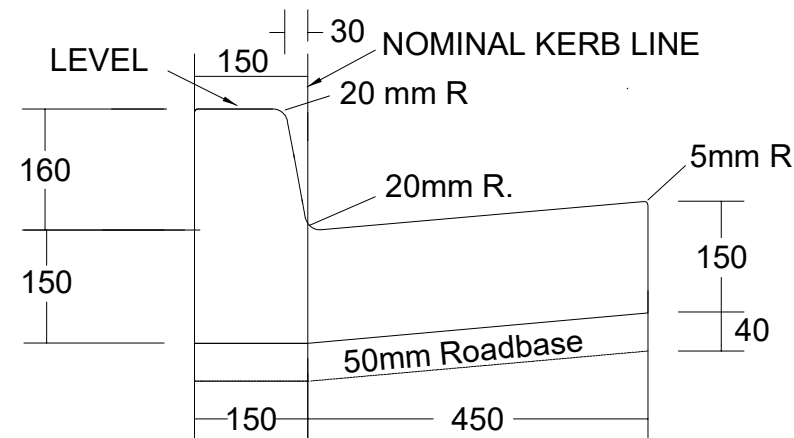
KERB RETURN 2

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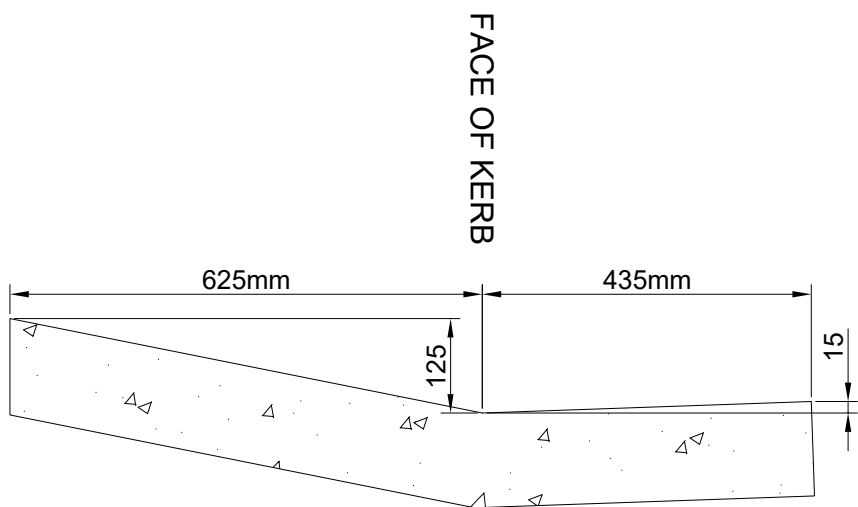
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						DRAWING NO. SHEET 10					JOB REF: 221259	
								DESIGN: M. COLE	DRAWN: M. COLE			



SUBSOIL DRAINAGE DETAIL
RR: 1:50

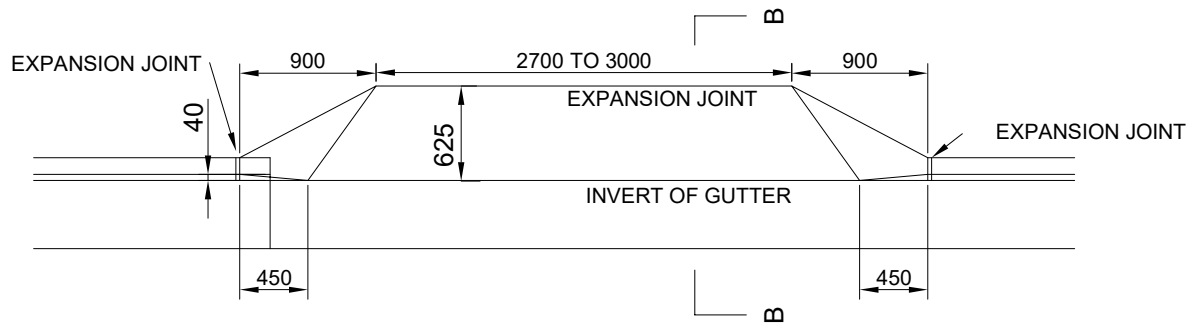


INTEGRAL KERB AND GUTTER DETAIL
RR 1:10




SECTION B-B
R.R 1:10

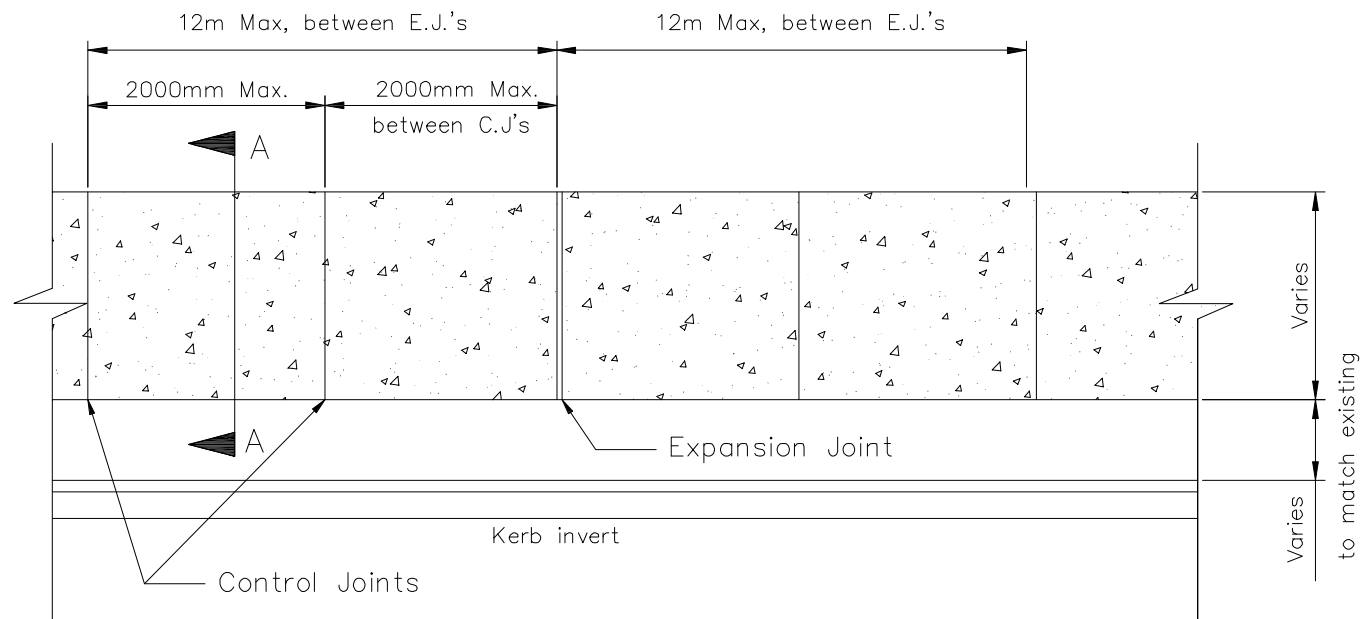
CONCRETE - MIN. OF 125mm THICK 25mpA
CONCRETE REINFORCED WITH ONE LAYER OF SL62
FABRIC PLACED IN THE UPPER HALF OF CONCRETE
(MIN. COVER 40mm)



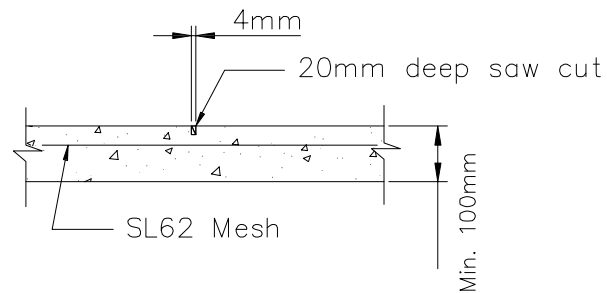
VEHICULAR CROSSING
R.R 1:50

EXPANSION JOINTS SHALL BE PLACED IN KERB AT INTERVALS NOT MORE THAN 6m AND AT JUNCTIONS WITH DRAINAGE PITS

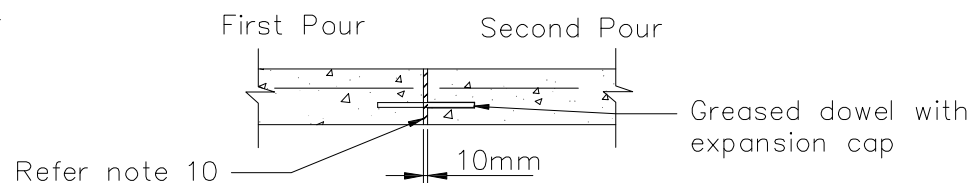
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						DRAWING NO. SHEET 12					
				DESIGN: M. COLE	DRAWN: M. COLE						JOB REF: 221259



PLAN VIEW – CONCRETE FOOTPATH
NTS

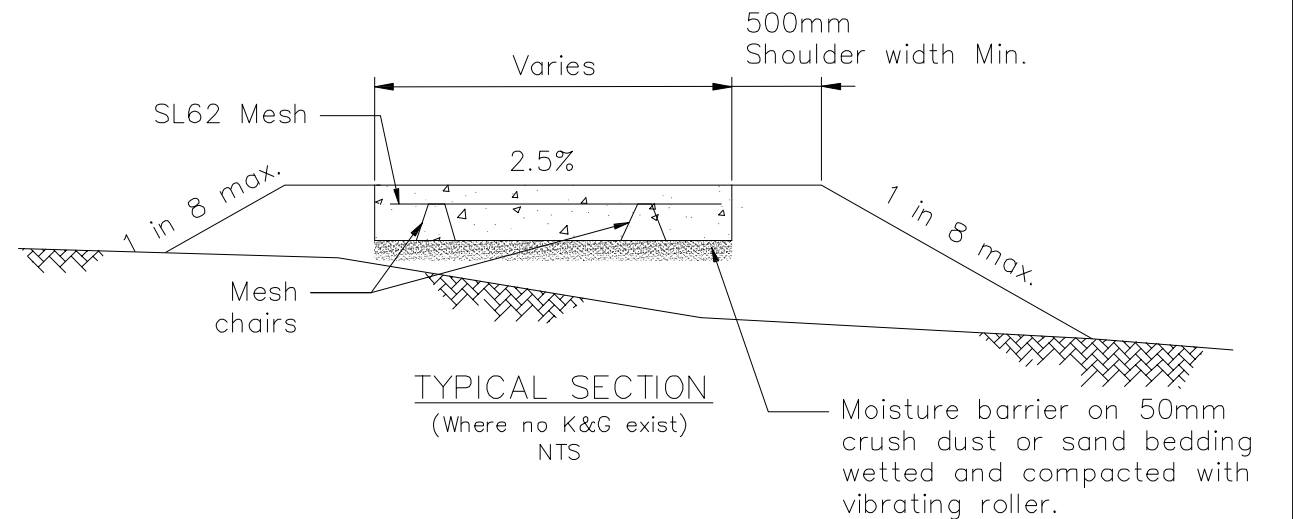


CONTROL JOINT (C.J) DETAIL
NTS



DOWELLED EXPANSION JOINT
DETAIL (E.J)
NTS

Install 400mm galvanised steel dowels,
at 600mm crs.
Dowels dia 12mm in slab thickness 100mm
Dowels dia 16mm in slab thickness 125mm



NOTES

GENERAL

1. All dimension are in millimeters. Do not scale this drawing
2. All discrepancies shall be reported immediately for decision before proceeding with the project.
3. The construction site shall conform to the requirements of the Environmental Management Plan.
4. All disturbed area should be topsoil and turf.

CONCRETE

5. Concrete to be Grade 25MPa AS1379 and AS3600
6. Exposed edges of formed concrete elements shall have a 20mm chamfer unless otherwise noted.
7. All concrete to be mechanically vibrated. Hand held vibrator must be held upright. Concrete must not be spread using vibrator.
8. Cover to reinforcement shall be 40mm unless otherwise noted.
9. Surface to be non-slip concrete finish (broom finished) to AS4586.

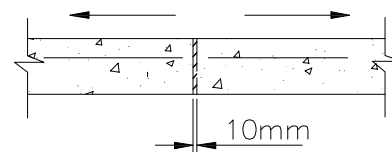
JOINTS

10. Expansion and control joints to be sealed with a low modulus self priming sealant to the manufactures specification.
11. Construction joints to be provided adjacent to all concreted property crossing and any significant change in width and direction.
12. Saw cut joint shall be a wet cut within 24 hours of concrete pour.
13. SERVICE
14. All services to be located.
15. Locate all property drain outlets in kerb and ensure they remain in service when construction is complete.
16. Where concrete path is to be constructed adjacent to existing street trees, an articulated joint system may be used to minimize potential damage from tree roots.

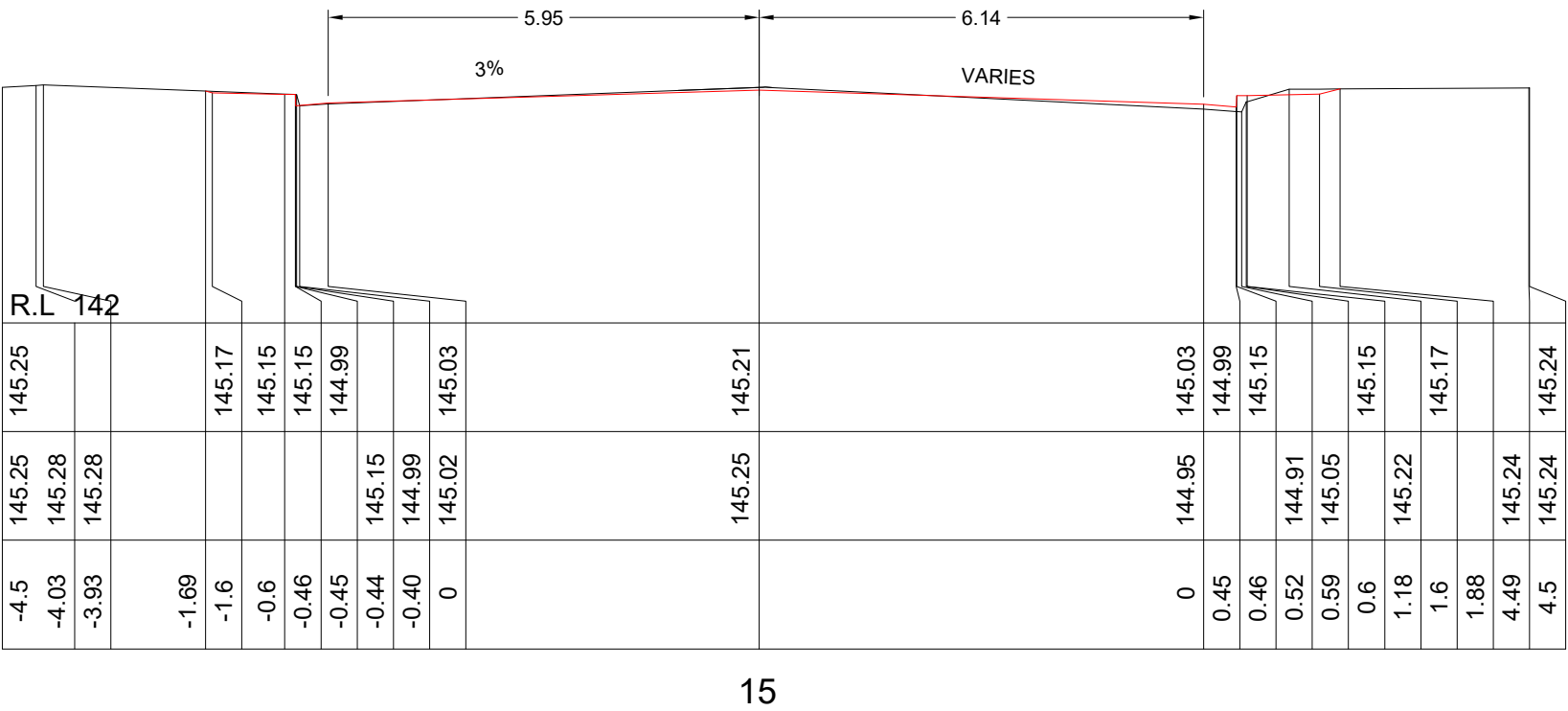
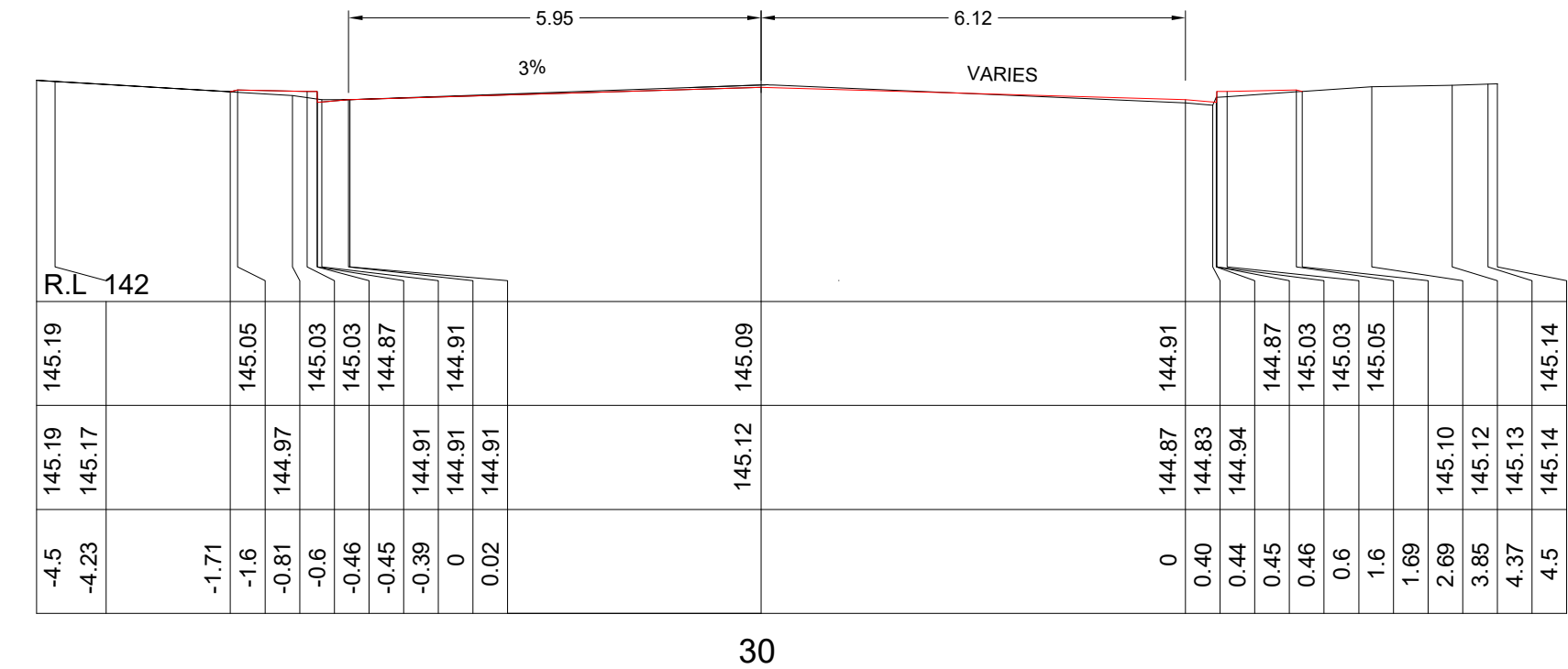
MINIMUM DESIGN CRITERIA TABLE

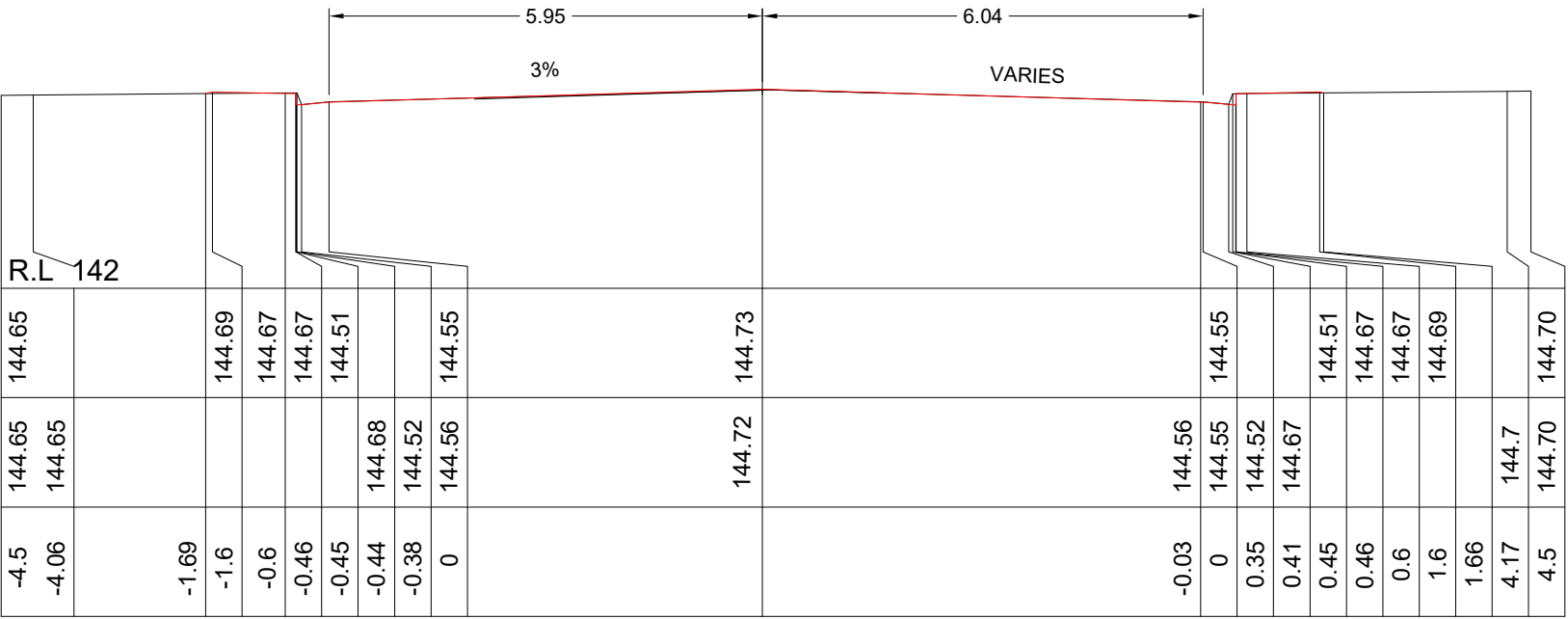
Features		Cycleway	Footpath	Shared use of footpath
Formation width		2.0m	1.2m	2.0m
Crossfall	Min.	1: 50	1: 50	1: 50
	Max.	1: 20*	1: 20*	1: 20*
Grade max		2% for 450m 5% for 90m 10% for 30m	NA	2% for 140m 3% for 70m 4% for 40m 5% for 30m

Existing Footpath New Footpath

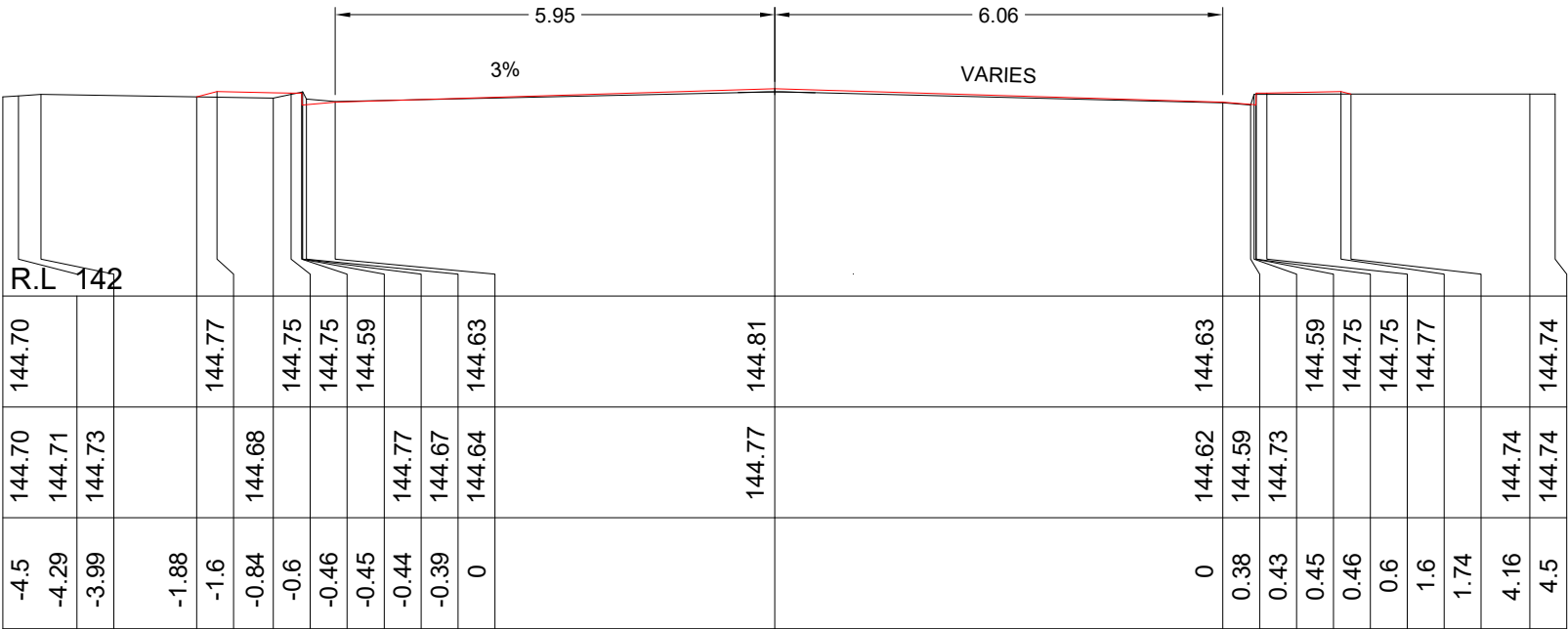


MASTIC JOINT
NTS



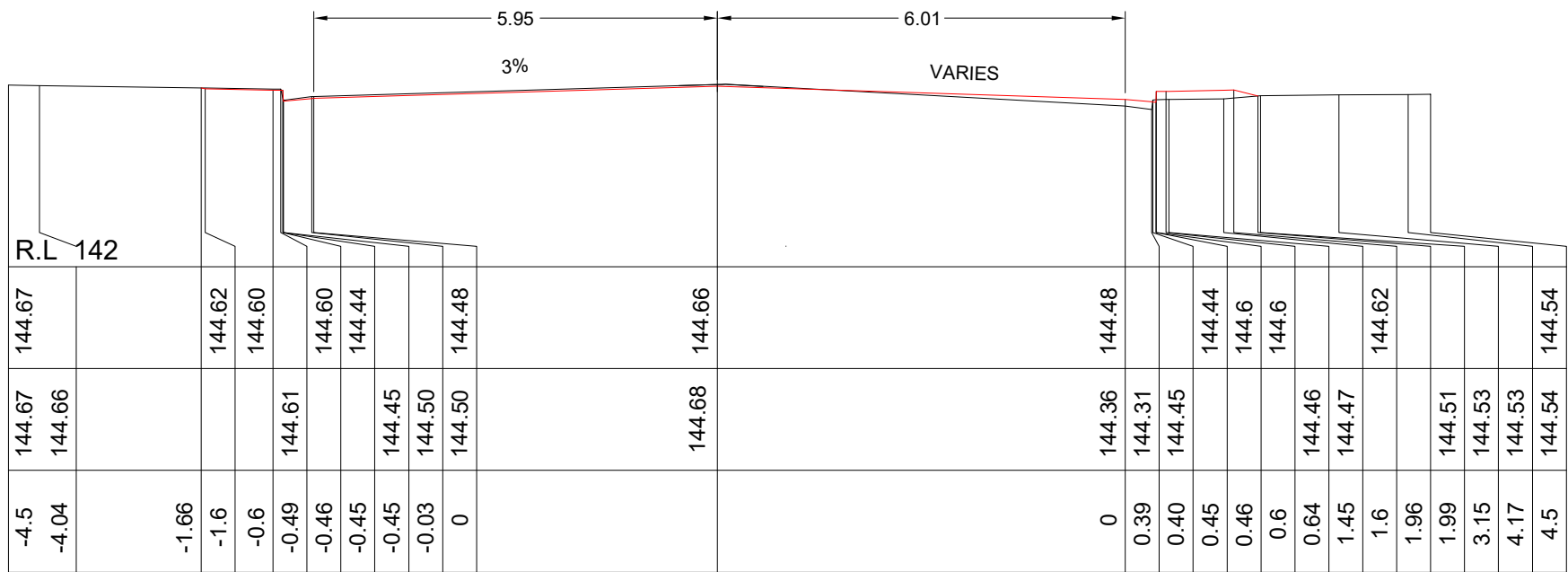


90

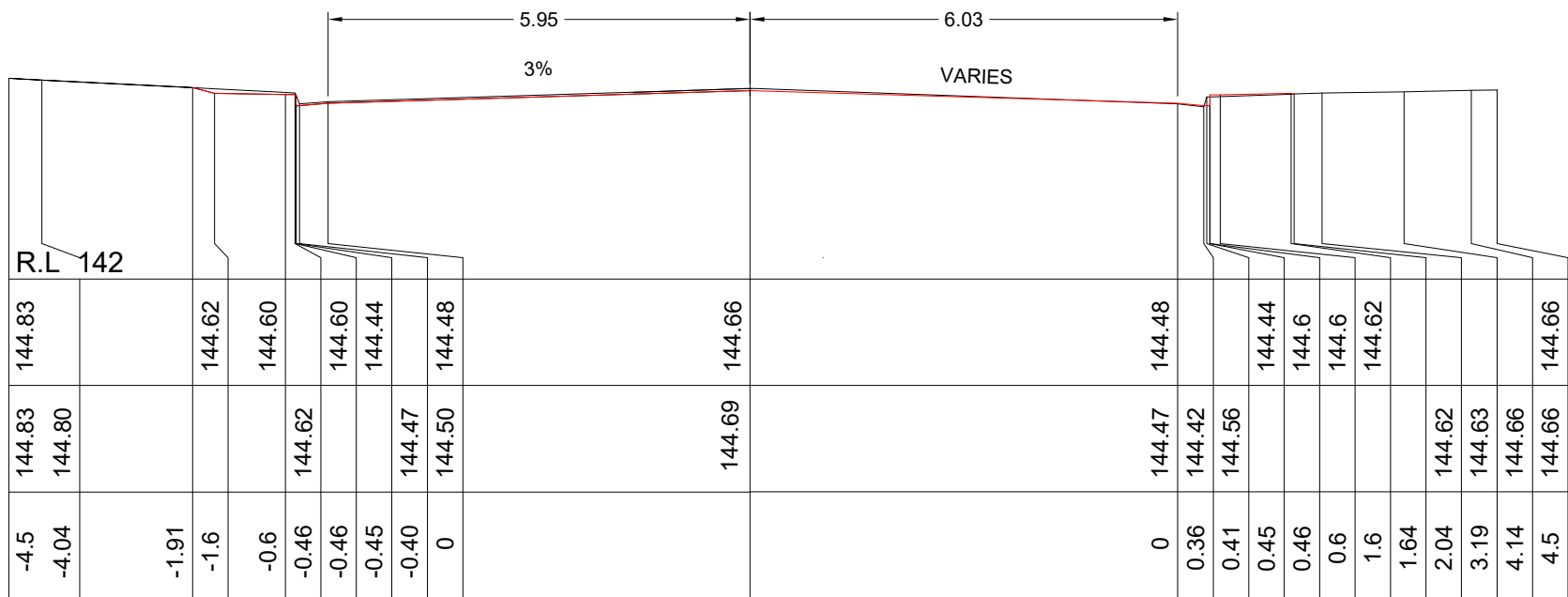


75


PLANS PREPARED BY		CLIENT		LORNE STREET KERB UPGRADE		SCALE: H=100 V=100 (A3)		A	ISSUED TO CLIENT	20/12/2021
<div>MM HYNDES BAILEY & Co.</div> <div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div> <div>Surveying the Hunter since 1920</div> <div>Ph: 02 65432475 Email: office@hbsurveys.com.au</div> <div>PO Box 26, MUSWELLBROOK NSW 2333</div> <div></div>		CLIENT: MUSWELLBROOK SHIRE COUNCIL		CROSS SECTIONS CH 75 - 90		LGA: MUSWELLBROOK		B	BOX CULVERT ADDED	REV: B
				DESIGN: M. COLE		DRAWN: M. COLE				
						DRAWING NO. SHEET 16				JOB REF: 221259

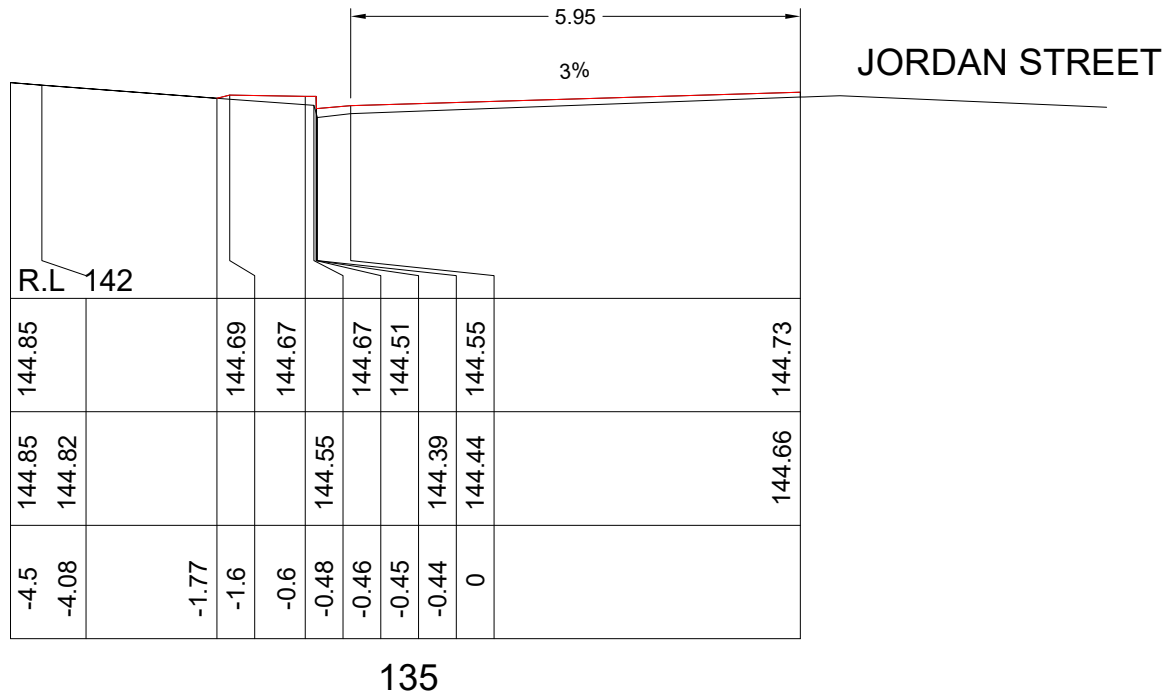
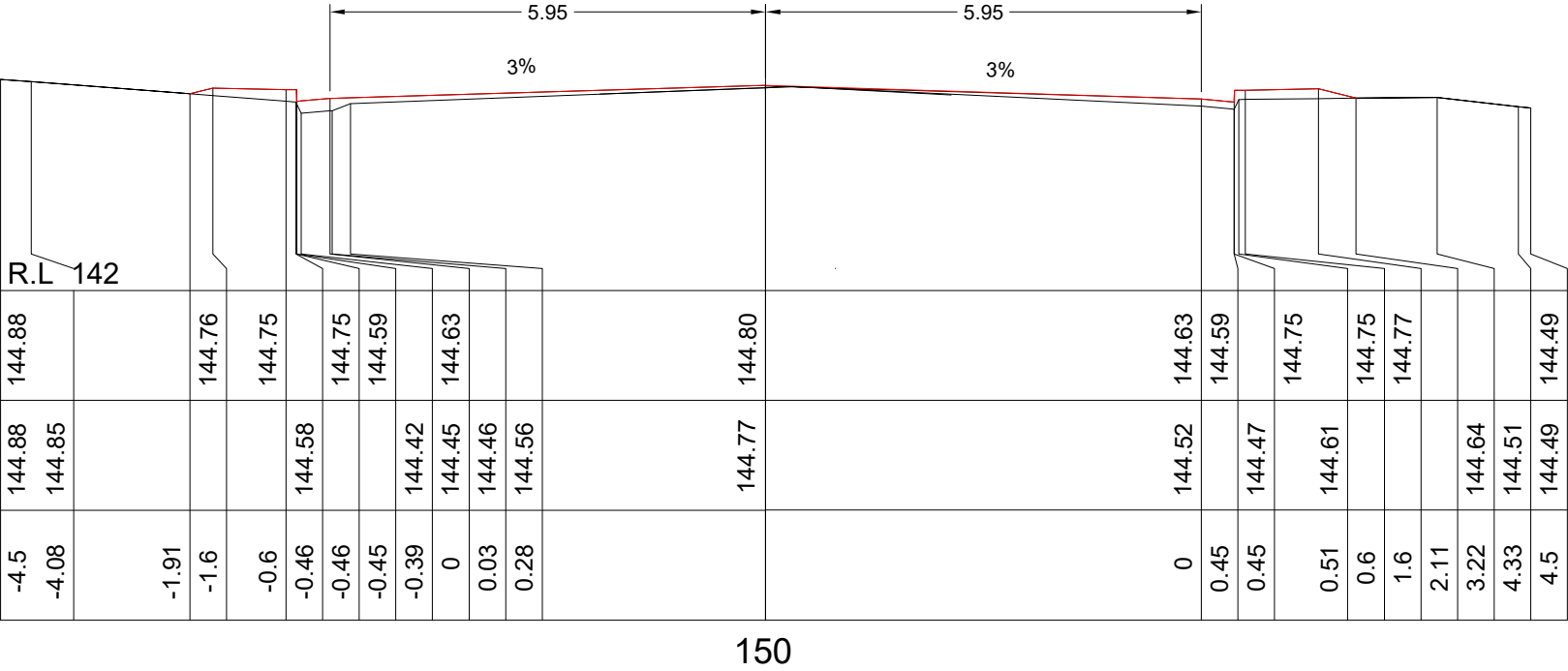



120

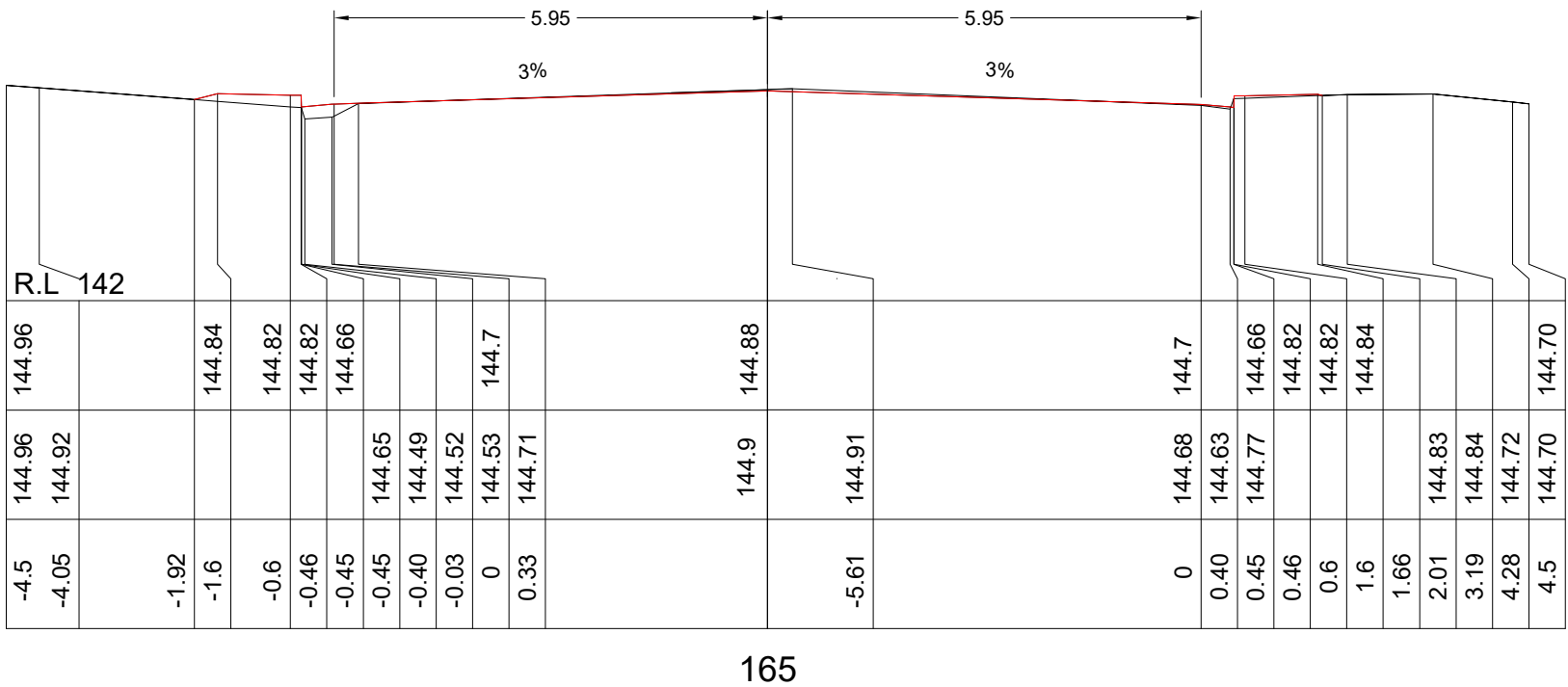
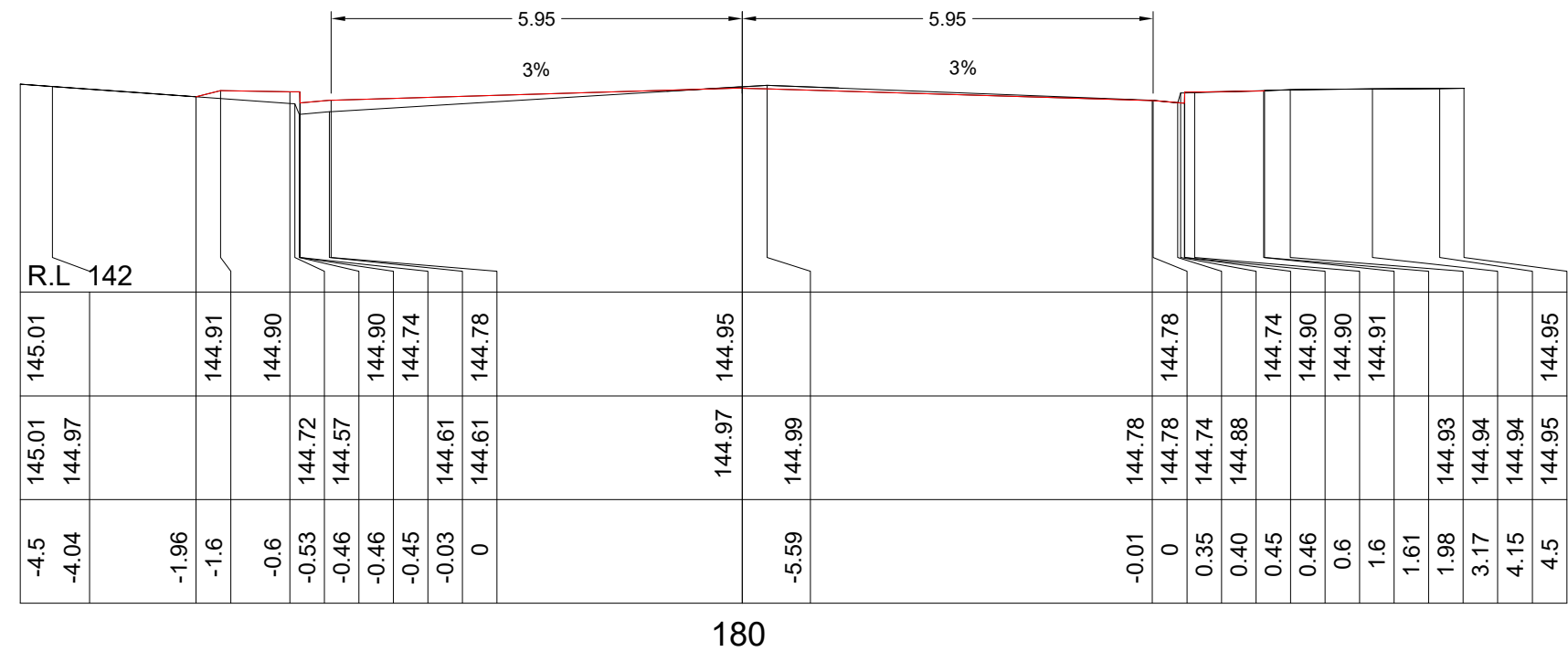


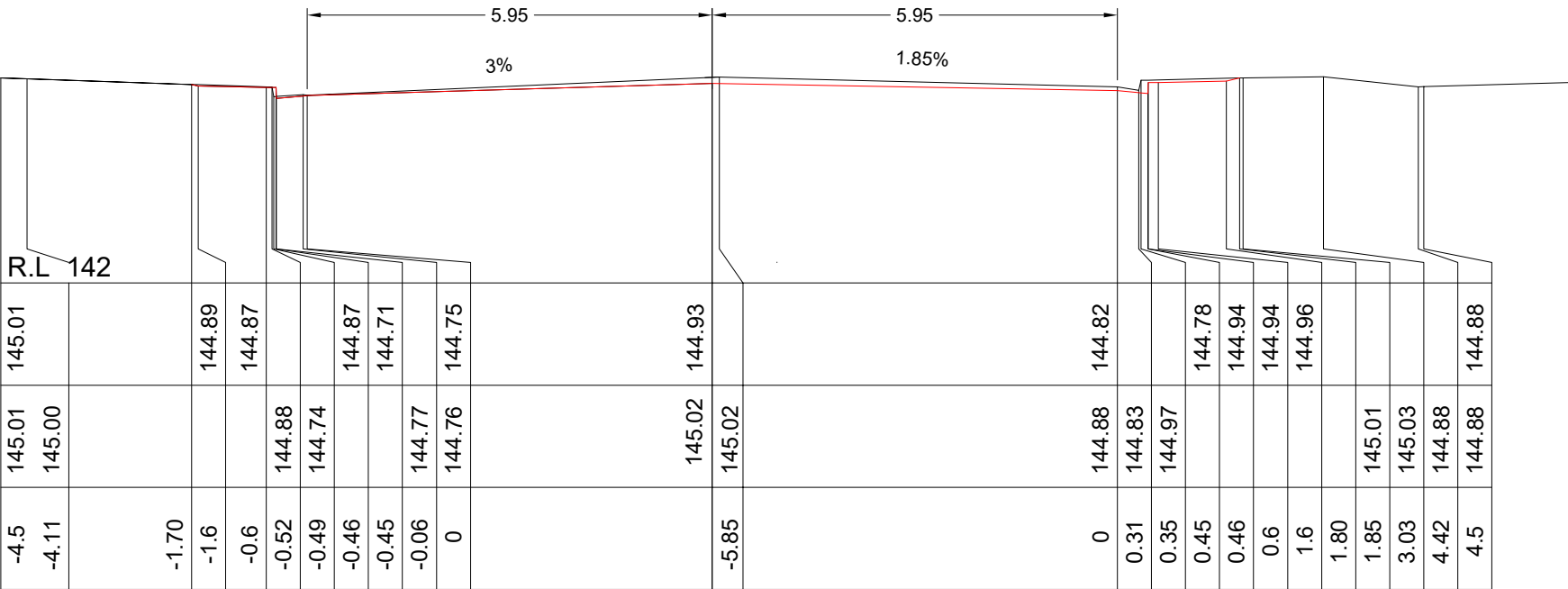
105

PLANS PREPARED BY MM HYNDES BAILEY & Co. <small>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</small> <i>Surveying the Hunter since 1920</i> <small>Ph: 02 65432475 Email: office@hbsurveys.com.au</small> <small>PO Box 26, MUSWELLBROOK NSW 2333</small>		CLIENT CLIENT: MUSWELLBROOK SHIRE COUNCIL	LORNE STREET KERB UPGRADE CROSS SECTIONS CH 105 - 120 DESIGN: M. COLE DRAWN: M. COLE	SCALE: H=100 V=100 (A3) LGA: MUSWELLBROOK DRAWING NO. SHEET 17	A	ISSUED TO CLIENT	20/12/2021
					B	BOX CULVERT ADDED	REV: B
							JOB REF:
							221259

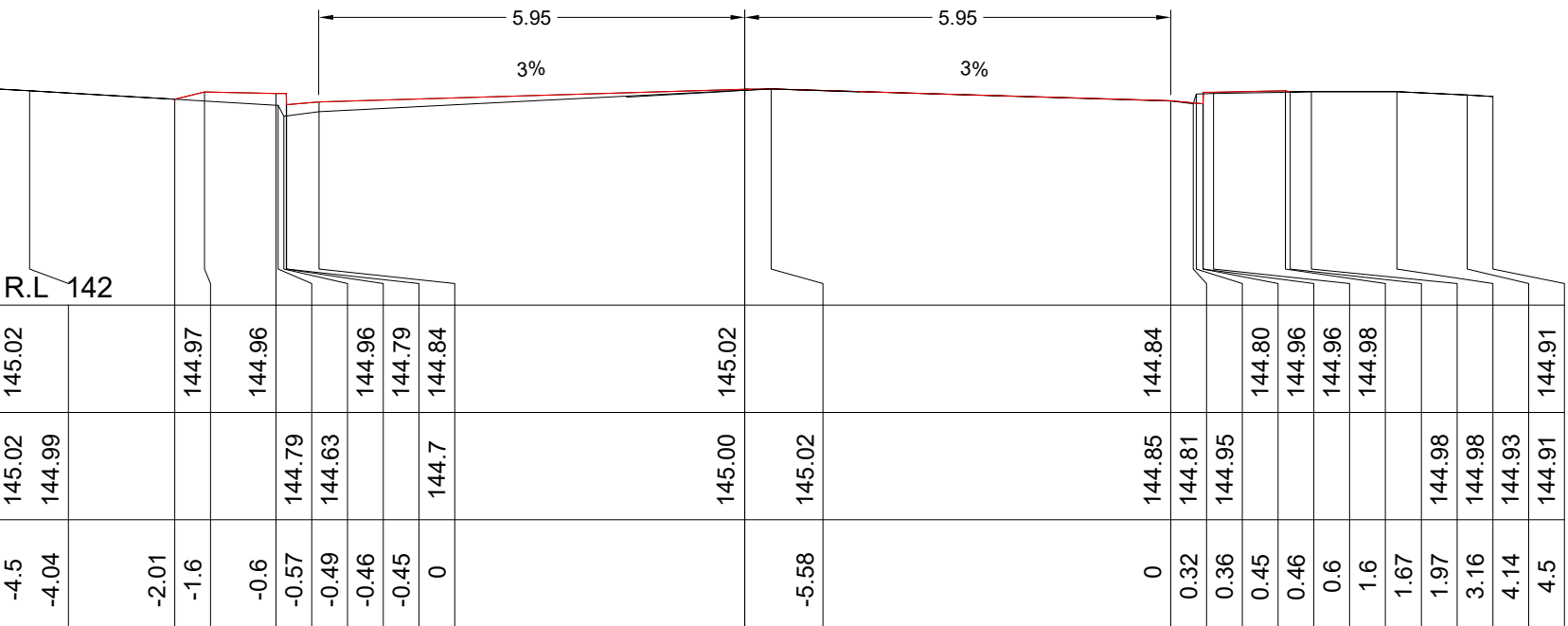


<div>PLANS PREPARED BY</div> <div>MM HYNDES BAILEY & Co.</div> <div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div> <div>Surveying the Hunter since 1920</div> <div>Ph: 02 65432475 Email: office@hbsurveys.com.au</div> <div>PO Box 26, MUSWELLBROOK NSW 2333</div> <div></div>	<div>CLIENT</div> <div>CLIENT:</div> <div>MUSWELLBROOK SHIRE COUNCIL</div>	<div>LORNE STREET KERB UPGRADE</div> <div>CROSS SECTIONS</div> <div>CH 135 - 150</div> <div>DESIGN: M. COLE</div> <div>DRAWN: M. COLE</div>	<div>SCALE: H=100 V=100 (A3)</div> <div>LGA: MUSWELLBROOK</div> <div>DRAWING NO. SHEET 18</div>	A	ISSUED TO CLIENT	20/12/2021
				B	BOX CULVERT ADDED	REV: B
						JOB REF:
						221259





210




195



DRAINAGE LINE 1

H=1:500 V=1:100

<div>PLANS PREPARED BY</div> <div>MM HYNDES BAILEY & Co.<div>REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN</div><div><i>Surveying the Hunter since 1920</i></div><div><div>Ph: 02 65432475</div><div>Email: office @hbsurveys.com.au</div><div>PO Box 26, MUSWELLBROOK NSW 2333</div></div><div></div></div>	<div>CLIENT</div> <div>CLIENT: MUSWELLBROOK SHIRE COUNCIL</div>	<div>LORNE STREET KERB UPGRADE</div> <div>DRAINAGE LINE 1</div> <div><div>DESIGN: M. COLE</div><div>DRAWN: M. COLE</div></div>	<div>SCALE: AS SHOWN (A3)</div> <div>LGA: MUSWELLBROOK</div> <div>DRAWING NO. SHEET 21</div>	A	ISSUED TO CLIENT	20/12/2021
				B	BOX CULVERT ADDED	REV: B
						JOB REF:
						221259