

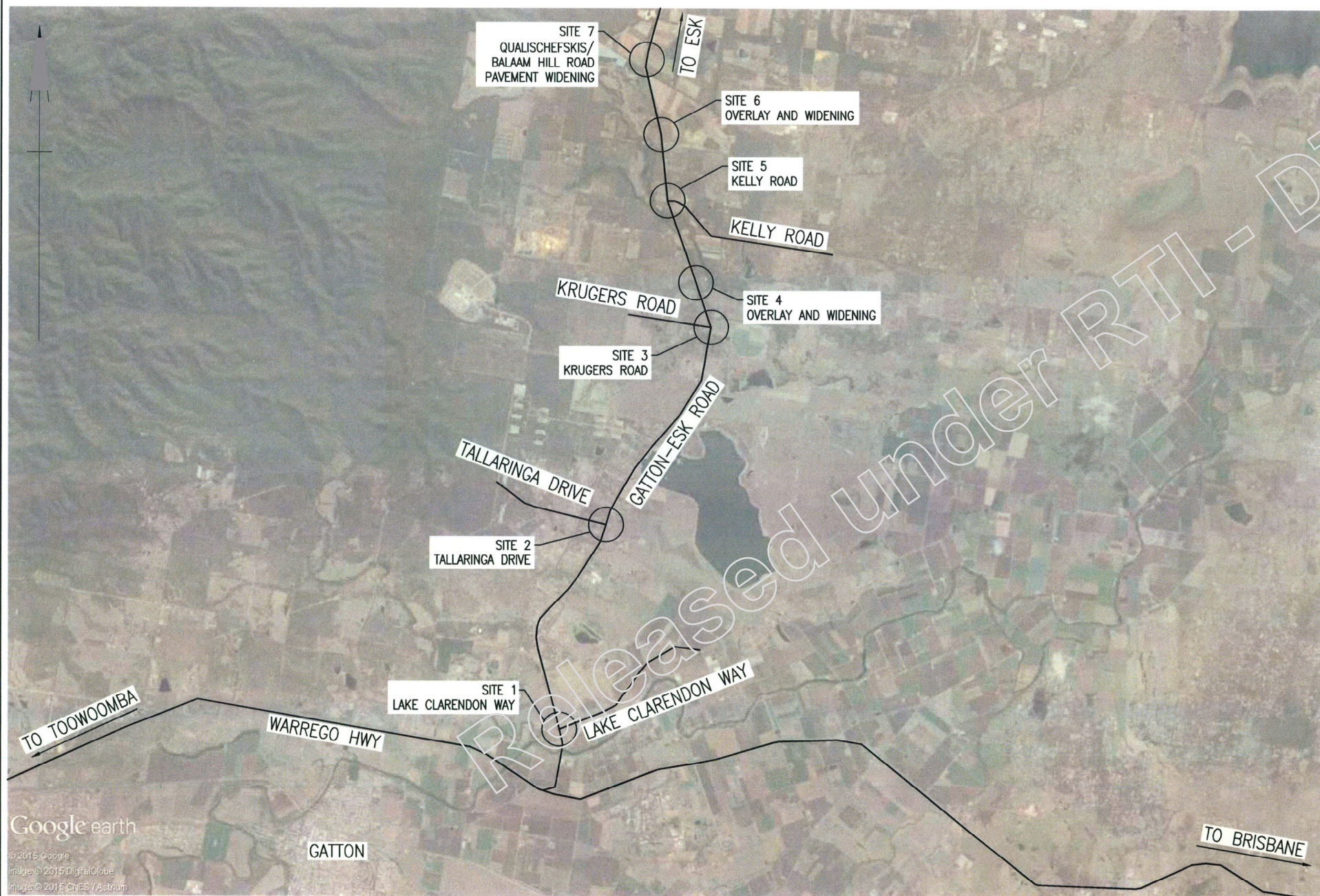


# LOCKYER VALLEY REGIONAL COUNCIL

## GATTON - ESK ROAD CONTRACT No. DDWD-88 JOB No. 239/4144/2

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DATA SOURCE: GOOGLE EARTH PRO - IMAGERY (DATE EXTRACTED: 13/11/2015)



LOCALITY MAP  
NTS

DRAWING NUMBER	REVISION	DATE	SERIES NUMBER	DRAWING DESCRIPTION
650924	A		DI-01	DRAWING INDEX AND LOCALITY MAP
650925	A		CL-01	SITE 1 - LAKE CLARENDON WAY - CONTROL LINE SETOUT
650926	A		GA-01	SITE 1 - LAKE CLARENDON WAY - GENERAL ARRANGEMENT
650927	A		SL-01	SITE 1 - LAKE CLARENDON WAY - LINEMARKING AND SIGNAGE
650928	A		XS-01	SITE 1 - LAKE CLARENDON WAY - CROSS SECTIONS - CONTROL LINE MC10 - SHEET 1 OF 3
650929	A		XS-02	SITE 1 - LAKE CLARENDON WAY - CROSS SECTIONS - CONTROL LINE MC10 - SHEET 2 OF 3
650930	A		XS-03	SITE 1 - LAKE CLARENDON WAY - CROSS SECTIONS - CONTROL LINE MC10 - SHEET 3 OF 3
650931	A		XS-04	SITE 1 - LAKE CLARENDON WAY - CROSS SECTIONS - CONTROL LINE MC13 - SHEET 1 OF 1
650932	A		GA-02	SITE 2 - TALLARINGA DRIVE - GENERAL ARRANGEMENT
650933	A		SL-02	SITE 2 - TALLARINGA DRIVE - LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS
650934	A		XS-01	SITE 2 - TALLARINGA DRIVE - CROSS SECTIONS - CONTROL LINE MC20 - SHEET 1 OF 2
650935	A		XS-02	SITE 2 - TALLARINGA DRIVE - CROSS SECTIONS - CONTROL LINE MC20 - SHEET 2 OF 2
650936	A		XS-03	SITE 2 - TALLARINGA DRIVE - CROSS SECTIONS - CONTROL LINE MC21 - SHEET 1 OF 1
650937	A		GA-03	SITE 3 - KRUGERS ROAD - GENERAL ARRANGEMENT
650938	A		SL-03	SITE 3 - KRUGERS ROAD - LINEMARKING AND SIGNAGE
650939	A		XS-01	SITE 3 - KRUGERS ROAD - CROSS SECTIONS - CONTROL LINE MC30 - SHEET 1 OF 2
650940	A		XS-02	SITE 3 - KRUGERS ROAD - CROSS SECTIONS - CONTROL LINE MC30 - SHEET 2 OF 2
650941	A		XS-03	SITE 3 - KRUGERS ROAD - CROSS SECTIONS - CONTROL LINE MC31 - SHEET 1 OF 1
650942	A		GA-04	SITE 4 - WIDENING AND OVERLAY - GENERAL ARRANGEMENT
650943	A		XS-01	SITE 4 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC40 - SHEET 1 OF 3
650944	A		XS-02	SITE 4 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC40 - SHEET 2 OF 3
650945	A		XS-03	SITE 4 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC40 - SHEET 3 OF 3
650946	A		GA-05	SITE 5 - KELLY ROAD - GENERAL ARRANGEMENT
650947	A		SL-05	SITE 5 - KELLY ROAD - LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS
650948	A		XS-01	SITE 5 - KELLY ROAD - CROSS SECTIONS - CONTROL LINE MC50 - SHEET 1 OF 3
650949	A		XS-02	SITE 5 - KELLY ROAD - CROSS SECTIONS - CONTROL LINE MC50 - SHEET 2 OF 3
650950	A		XS-03	SITE 5 - KELLY ROAD - CROSS SECTIONS - CONTROL LINE MC50 - SHEET 3 OF 3
650951	A		GA-06	SITE 6 - WIDENING AND OVERLAY - GENERAL ARRANGEMENT
650952	A		GD-06	SITE 6 - WIDENING AND OVERLAY - GENERAL DETAILS
650953	A		XS-01	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 1 OF 6
650954	A		XS-02	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 2 OF 6
650955	A		XS-03	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 3 OF 6
650956	A		XS-04	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 4 OF 6
650957	A		XS-05	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 5 OF 6
650958	A		XS-06	SITE 6 - WIDENING AND OVERLAY - CROSS SECTIONS - CONTROL LINE MC60 - SHEET 6 OF 6
650959	A		GA-07	SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD - GENERAL ARRANGEMENT
650960	A		XS-01	SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD - CROSS SECTIONS - CONTROL LINE MC70 - SHEET 1 OF 2
650961	A		XS-02	SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD - CROSS SECTIONS - CONTROL LINE MC70 - SHEET 2 OF 2

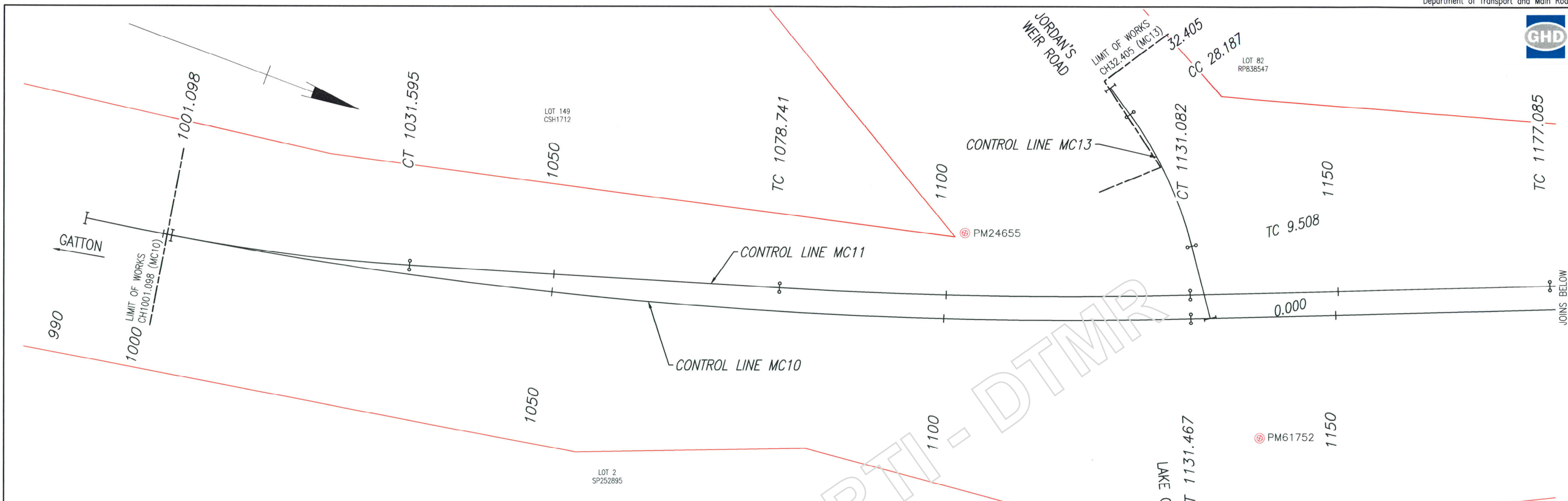
TOTAL NUMBER OF DRAWINGS = 38

**SCHEME SUBMITTED (EXTERNAL CONSULTANTS OR INTERNAL BUSINESS UNIT):**  
 THIS DESIGN MEETS THE REQUIREMENTS OF ALL RELEVANT AUSTRALIAN STANDARDS, AUSTRoadS GUIDELINES AND TRANSPORT AND MAIN ROADS - POLICIES, REFERENCES, STANDARDS, PLANNING AND DESIGN INSTRUCTIONS, GUIDELINES AND THE REQUIREMENTS OF THE PROJECT BRIEF/FUNCTIONAL SPECIFICATION.  
 SIGNED: **NR** TITLE: **MANAGER TOOWOOMBA**  
 ORGANISATION: **GHD** DATE: **01.03.16**

**SCHEME SCOPE AND FINANCIAL APPROVAL: (REGIONAL DIRECTOR OR DELEGATE):**  
 I HEREBY CERTIFY THAT THIS SCHEME COMPLIES WITH THE INTENT OF THE SCOPE AND FINANCIAL LIMITS OF THE RELEVANT PROJECT ON QTRIP AND THE SCHEME IS APPROVED FOR RELEASE IN ACCORDANCE WITH THAT PROGRAM.  
 SIGNED: **NR** TITLE: **DISTRICT DIRECTOR** DATE: **24.3.16**

G		Associated Job Nos	Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL		DRAWING INDEX AND LOCALITY MAP		
F			Datum	GDA94			GATTON-ESK ROAD				
E		Auxiliary Drg Nos	Horiz. Grid	MGA94			CTL CHGE 1000 - 14020				Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650924 A Series Number of MRR_Detail (02/14)
D			Height Origin	AHD DERIVED			Reference Points		Drawn: B.DAETH Designed: N.WILSON		
C			Survey Books	MR100057	Dimensions shown in metres except where shown otherwise		Preceding RP: 1A, Dist. to start of job (km): 1.00, From start to end of job: 13.02, From end to Following RP: 3.75, Following RP: 4		ENGINEERING CERTIFICATION (RPEQ) ENG. AREA: CIVIL, NAME: M.WRIGHT, SIGNATURE: NR, NO.: 8411, DATE: 1/3/16		
B							Through Chainage from INTERSECTION 18A/4144, 1.0km - 14.0km				
A		Issued For Construction									
		Revisions/Descriptions	Certification	Date	Microfiled						
		CAD FILES	N:\AU\Toowoomba\Projects\41\29381\CADD\Autocad\Drawings\DI-01.dwg								

Last Modified: Feb 24, 2016 - 3:01pm XREFS: MF 04.16A



CONTROL LINE MC10

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	990	432979.956	6953496.667	98.23	351°27'01.12"		
IP2		432969.393	6953566.928			-612	141.467
CT	1131.467	432943.015	6953632.899	100.25	338°12'22.03"		
TC	1253.918	432897.552	6953746.598	99.278	338°12'22.03"		
IP3		432896.423	6953749.422			1228	6.082
END	1260	432895.308	6953752.252	99.228	338°29'23.68"		

CONTROL LINE MC11

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	1001.098	432978.206	6953507.627	98.59	350°24'40.05"		
IP2		432975.663	6953522.682			-240	30.497
IP3	1031.595	432971.232	6953537.294	99.339			
IP4	1078.741	432957.551	6953582.411	100.065			
IP5		432949.951	6953607.471			-609	52.341
CT	1131.082	432940.229	6953631.786	100.166	338°12'22.03"		
TC	1177.085	432923.15	6953674.501	99.804	338°12'22.03"		
IP6		432920.077	6953682.186			240	16.548
CT	1193.632	432917.54	6953690.065	99.698	342°09'23.64"		
TC	1220.623	432909.27	6953715.758	99.54	342°09'23.64"		
IP7		432906.734	6953723.637			-240	16.548
END	1237.171	432903.661	6953731.322	99.41	338°12'22.01"		

CONTROL LINE MC13

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	432942.103	6953635.185	100.233	235°14'11.79"		
TC	9.508	432934.292	6953629.764	100.084	235°14'11.79"		
IP2		432926.529	6953624.376			-50	18.679
CC	28.187	432921.268	6953616.526	100.425	213°49'53.60"		
IP3		432920.094	6953614.774			-250	4.218
END	32.405	432918.949	6953613.002	100.438	212°51'53.36"		

SURVEY MARKS

POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
TBM1.0K	433000.364	6953477.298	98.272	0.99963339	S/PIC
TBM1.4K	432850.998	6953853.314	98.380	0.99963362	S/PIC
PM24655	432942.777	6953602.103	100.040	0.99963321	STANDARD
PM61752	432954.286	6953646.460	99.524	0.99963327	S/PIC

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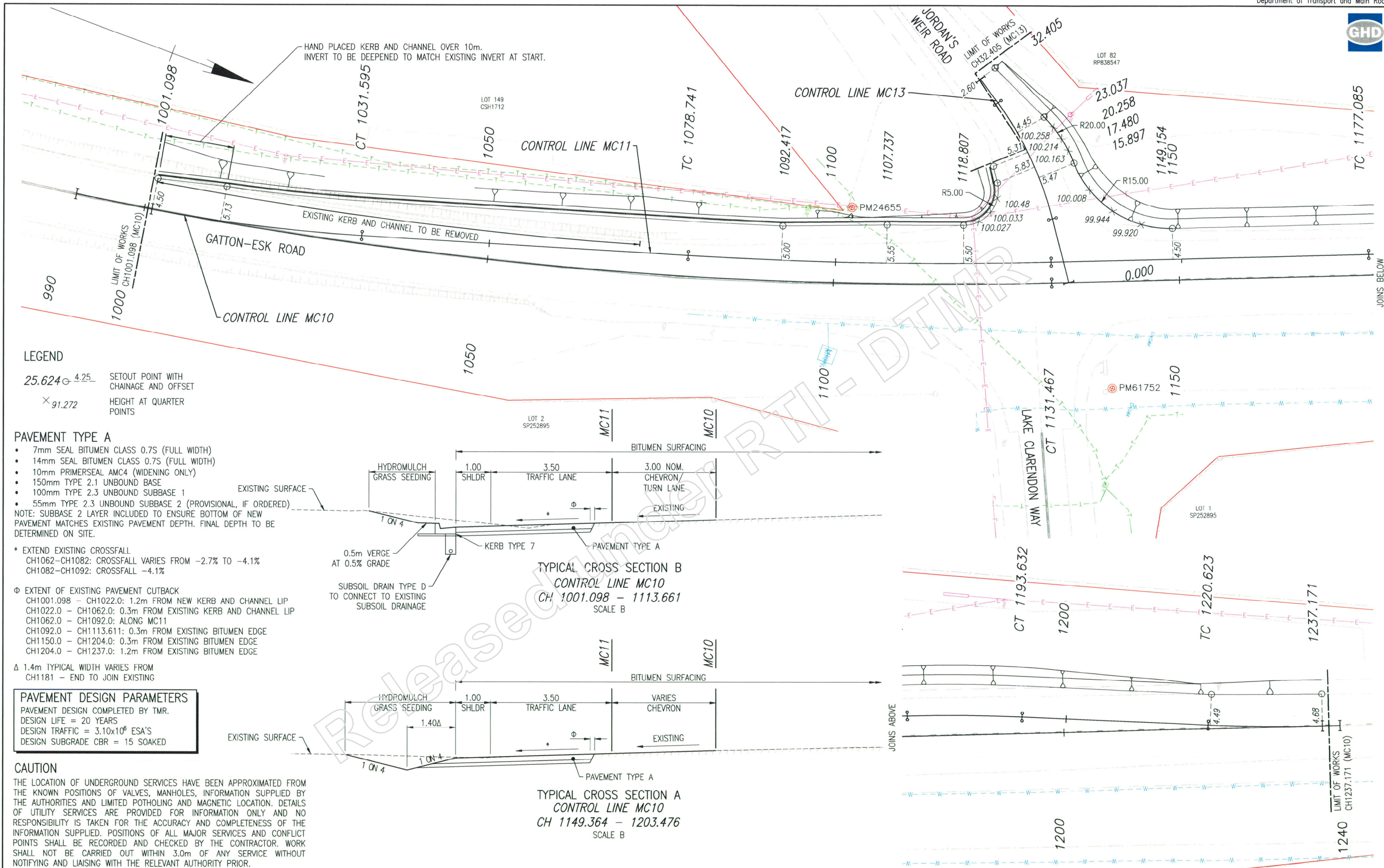
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Revisions/Descriptions		Certification	Date		Microfiled

Associated Job Nos	Survey Data	Scales 0 2 4 6 8 10m
Auxiliary Drg Nos	Datum: GDA94	
	Horiz. Grid: MGA94	
	Height Origin: AHD DERIVED	
	Survey Books: MR100057	Dimensions shown in metres except where shown otherwise

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY CONTROL LINE SETOUT	
Drawn: B.DAETH	ENGINEERING CERTIFICATION (RPEQ)
Designed: N.WILSON	ENG. AREA: CIVIL, NAME: M.WRIGHT, SIGNATURE: NR, NO.: 8411, DATE: 1/3/16

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650925 A
Series Number	of
MRR_Detail (02/14)	



**LEGEND**  
 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET  
 X 91.272 HEIGHT AT QUARTER POINTS

**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 150mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE 1
- 55mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

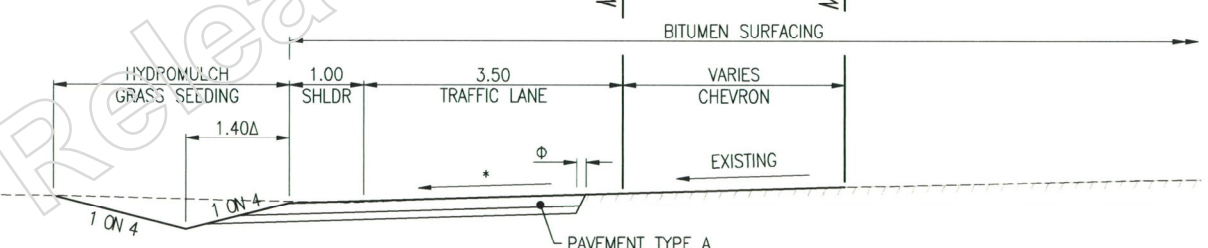
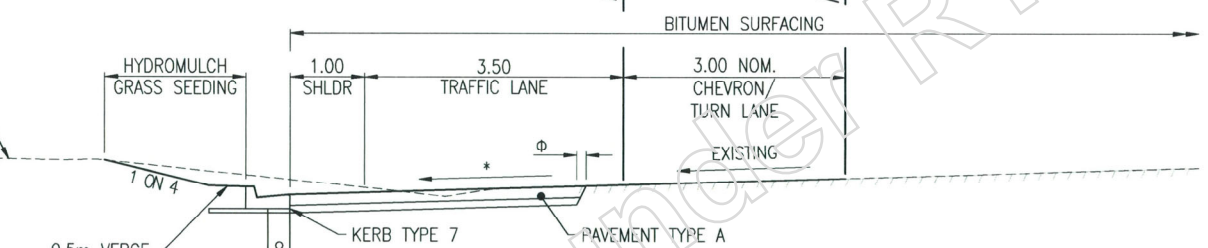
\* EXTEND EXISTING CROSSFALL  
 CH1062-CH1082: CROSSFALL VARIES FROM -2.7% TO -4.1%  
 CH1082-CH1092: CROSSFALL -4.1%

Φ EXTENT OF EXISTING PAVEMENT CUTBACK  
 CH1001.098 - CH1022.0: 1.2m FROM NEW KERB AND CHANNEL LIP  
 CH1022.0 - CH1062.0: 0.3m FROM EXISTING KERB AND CHANNEL LIP  
 CH1062.0 - CH1092.0: ALONG MC11  
 CH1092.0 - CH1113.611: 0.3m FROM EXISTING BITUMEN EDGE  
 CH1150.0 - CH1204.0: 0.3m FROM EXISTING BITUMEN EDGE  
 CH1204.0 - CH1237.0: 1.2m FROM EXISTING BITUMEN EDGE

Δ 1.4m TYPICAL WIDTH VARIES FROM  
 CH1181 - END TO JOIN EXISTING

**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

**CAUTION**  
 THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.



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A	Issued For Construction			
Revisions/Descriptions		Certification	Date	Microfiled

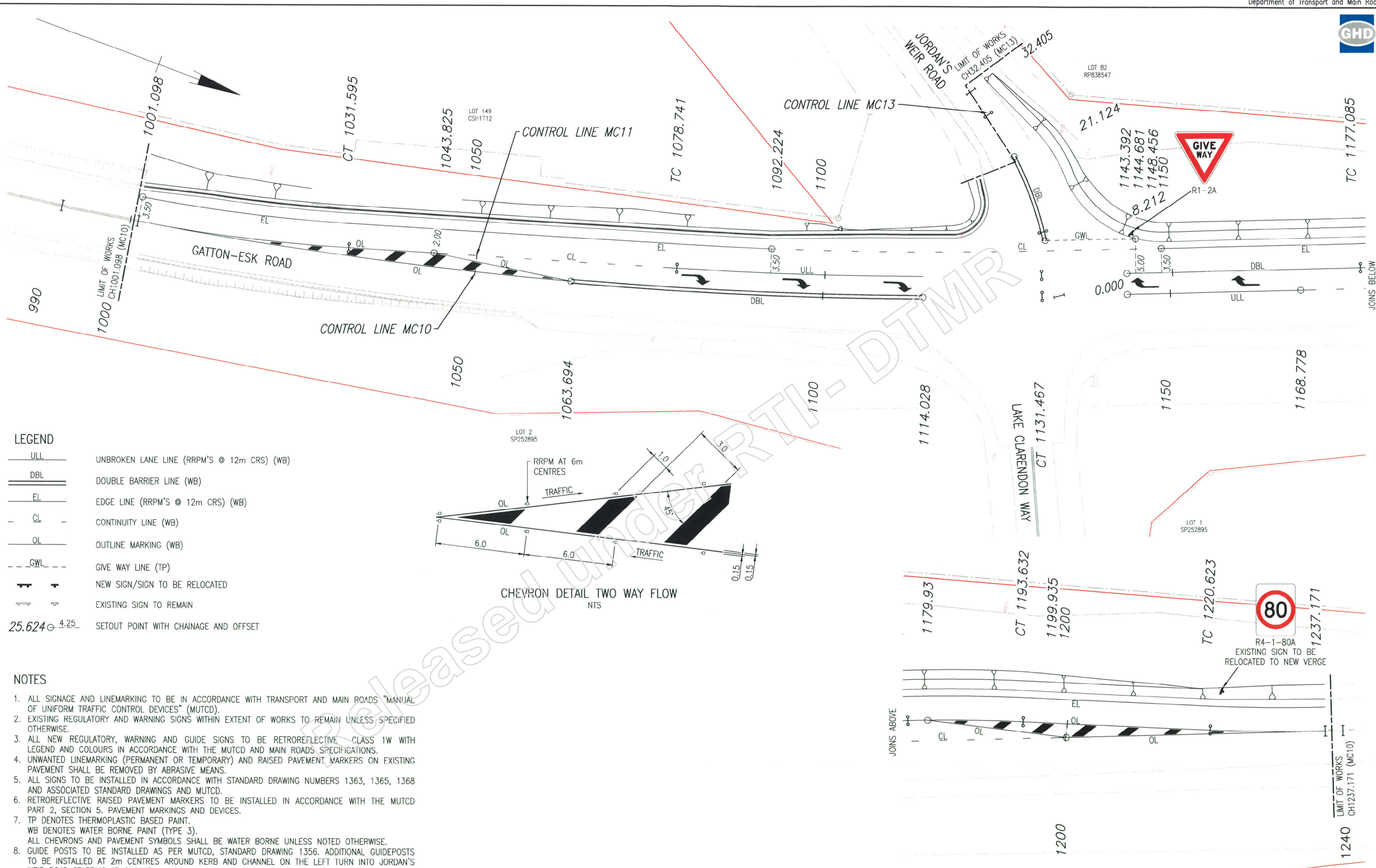
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	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

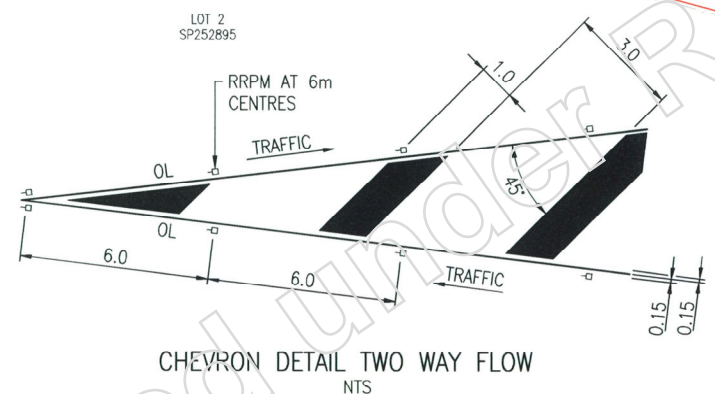
SITE 1 - LAKE CLARENDON WAY GENERAL ARRANGEMENT				
Drawn	ENGINEERING CERTIFICATION (RPEQ)			
B.DAULTH	ENG. AREA	NAME	SIGNATURE	NO. DATE
Designed	CIVIL	M.WRIGHT	NR	8/11/16
N.WILSON				

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650926 A
Series Number	of
MRR Detail (02/14)	

Last Modified: 16 Feb 24, 2016 - 2:56pm XREFS: X\_S.dwg; X\_DR0A.dwg; X\_DCTL.dwg



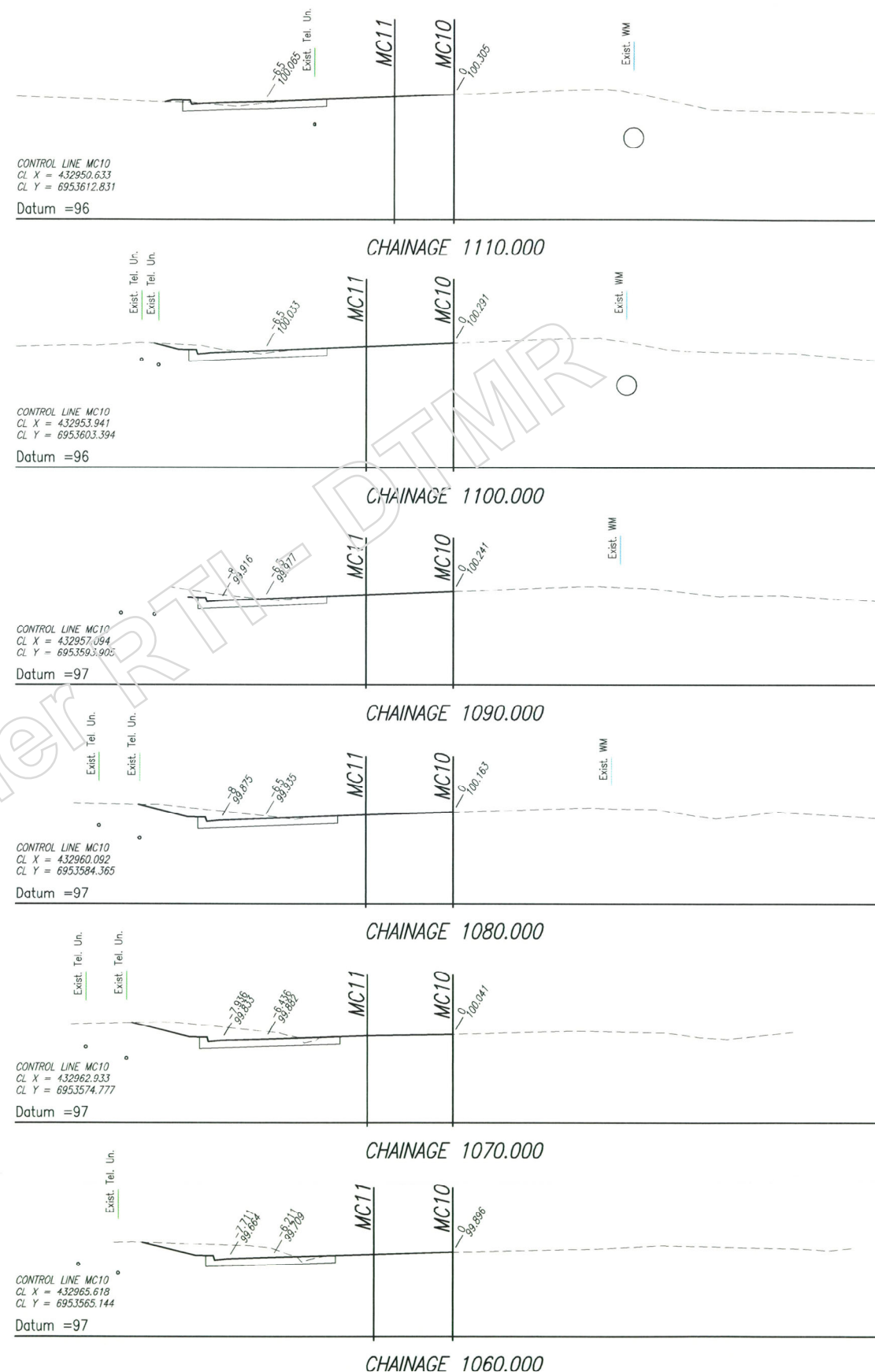
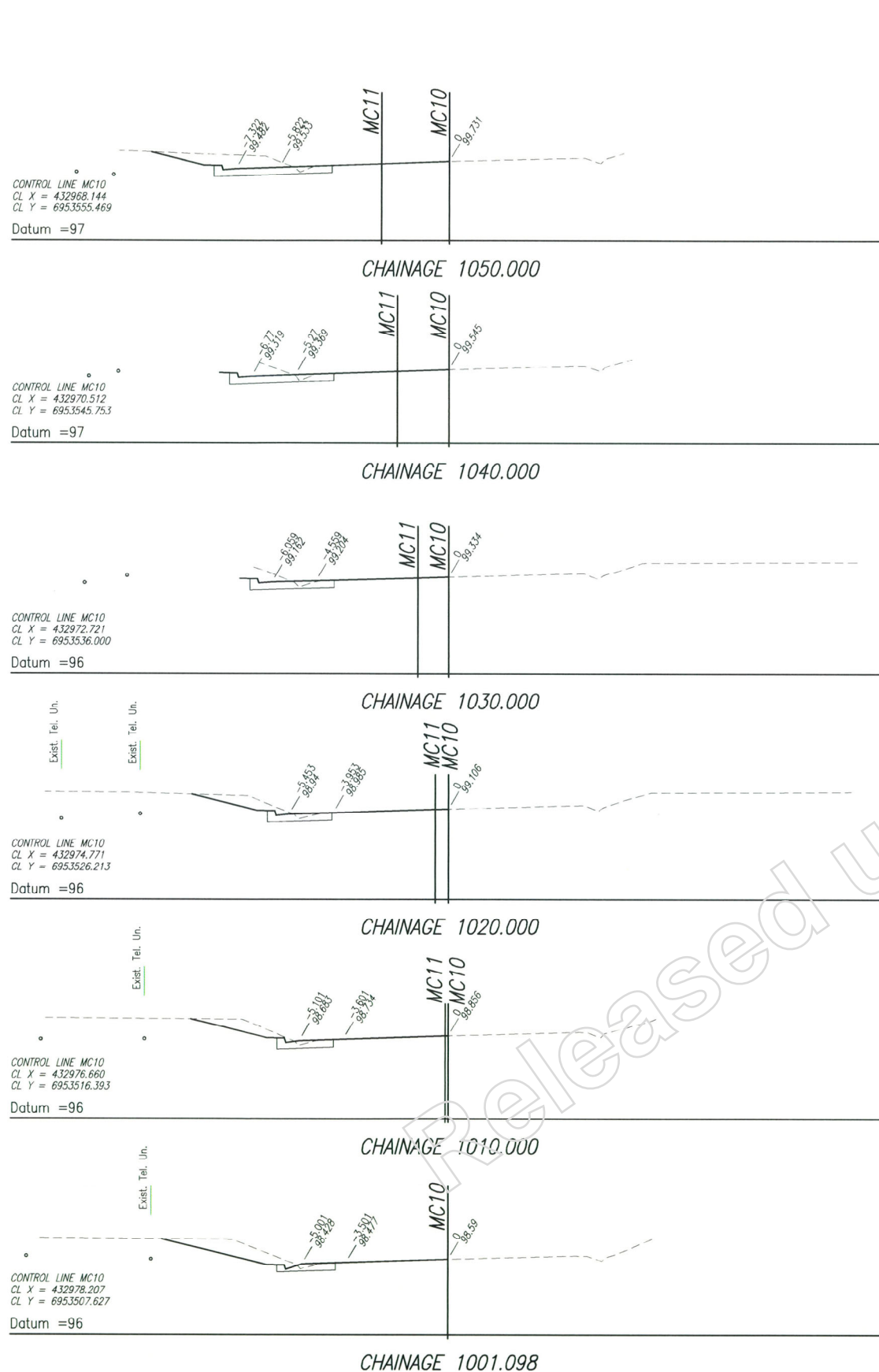
- LEGEND**
- ULL UNBROKEN LANE LINE (RRPM'S @ 12m CRS) (WB)
  - DBL DOUBLE BARRIER LINE (WB)
  - EL EDGE LINE (RRPM'S @ 12m CRS) (WB)
  - CL CONTINUITY LINE (WB)
  - OL OUTLINE MARKING (WB)
  - GWL GIVE WAY LINE (TP)
  - NEW SIGN/SIGN TO BE RELOCATED
  - EXISTING SIGN TO REMAIN
  - 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET



- NOTES**
- ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  - EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  - ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  - UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  - ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  - RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  - TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  - GUIDE POSTS TO BE INSTALLED AS PER MUTCD, STANDARD DRAWING 1356. ADDITIONAL GUIDEPOSTS TO BE INSTALLED AT 2m CENTRES AROUND KERB AND CHANNEL ON THE LEFT TURN INTO JORDAN'S WEIR ROAD STARTING AT CH1115.

Last Modified: 24 Feb 2016 2:51pm XREFS: X\_S.dwg; X\_DCTL.dwg; X\_DPROA.dwg

G F E D C B A	Associated Job Nos	Survey Data	Scales 0 2 4 6 8 10m	LOCKYER VALLEY REGIONAL COUNCIL		SITE 1 - LAKE CLARENDON WAY		
	Auxiliary Drg Nos	Datum: GDA94		GATTON-ESK ROAD		LINEMARKING AND SIGNAGE LAYOUT		
		Horiz. Grid: MGA94		CTL CHGE 1001 - 1237		ENGINEERING CERTIFICATION (RPEQ)		Contract No. DDWD-88
		Height Origin: AHD DERIVED		Reference Points		Drawn: B.DAETH Designed: CIVIL M.WRIGHT N.WILSON		Drawing No. 650927/A
		Survey Books: MR100057	Dimensions shown in metres except where shown otherwise	Preceding RP: 1A	Dist. to start of job (km): 1.0	From start to end of job: 0.24	From end to Following RP: 3.66	Following RP: 10
Revisions/Descriptions		Certification	Date	Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km		NO. DATE 8411 1/3/16		Series Number of
CAD FILES: N:\AU\Toowoomba\Projects\41\29381\CADD\Autocad\Drawings\01_SL-01.dwg								MRR_Detail (02/14)



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A	Issued For Construction			
Revisions/Descriptions		Certification	Date	Microfiled

Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057

Scales

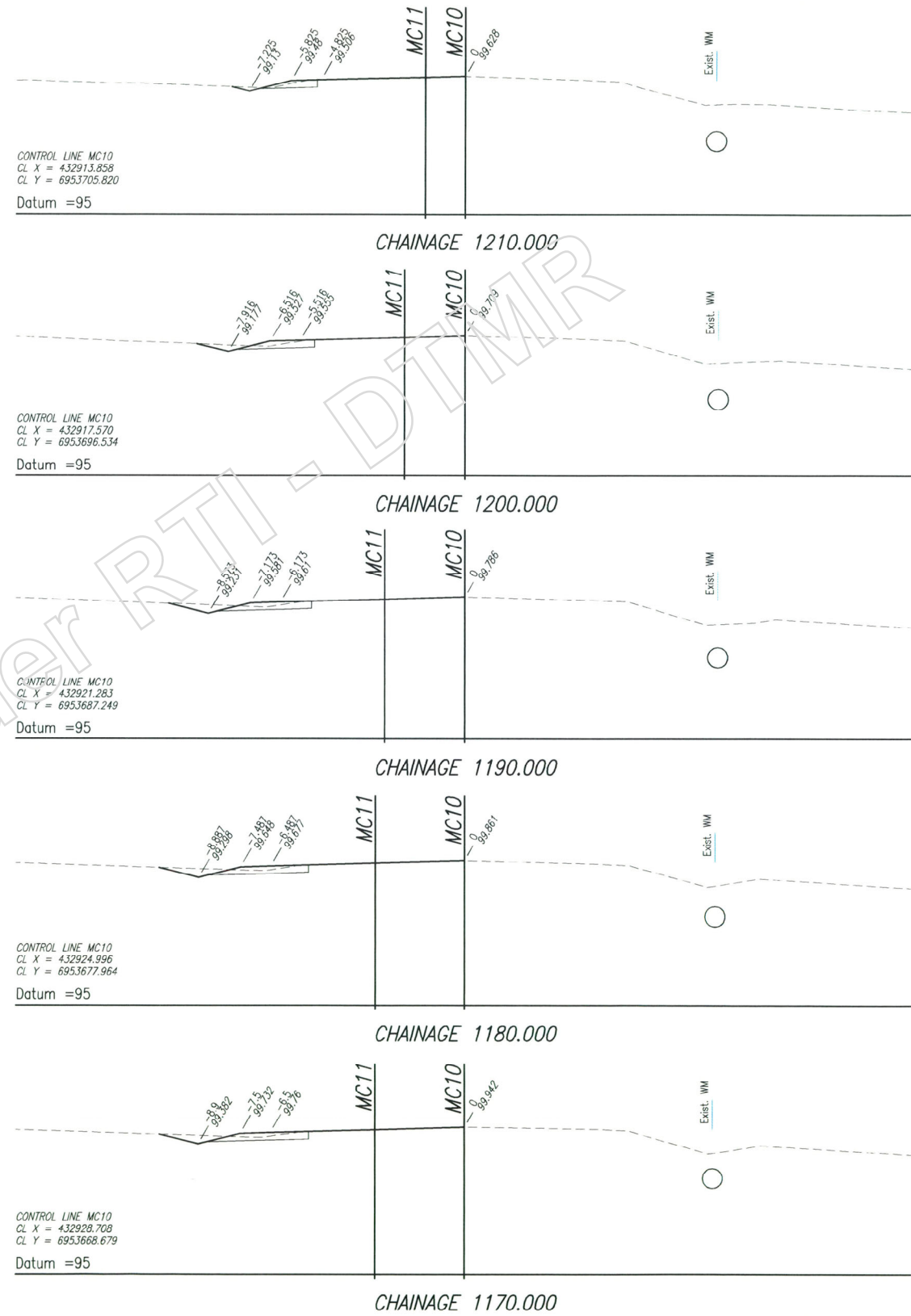
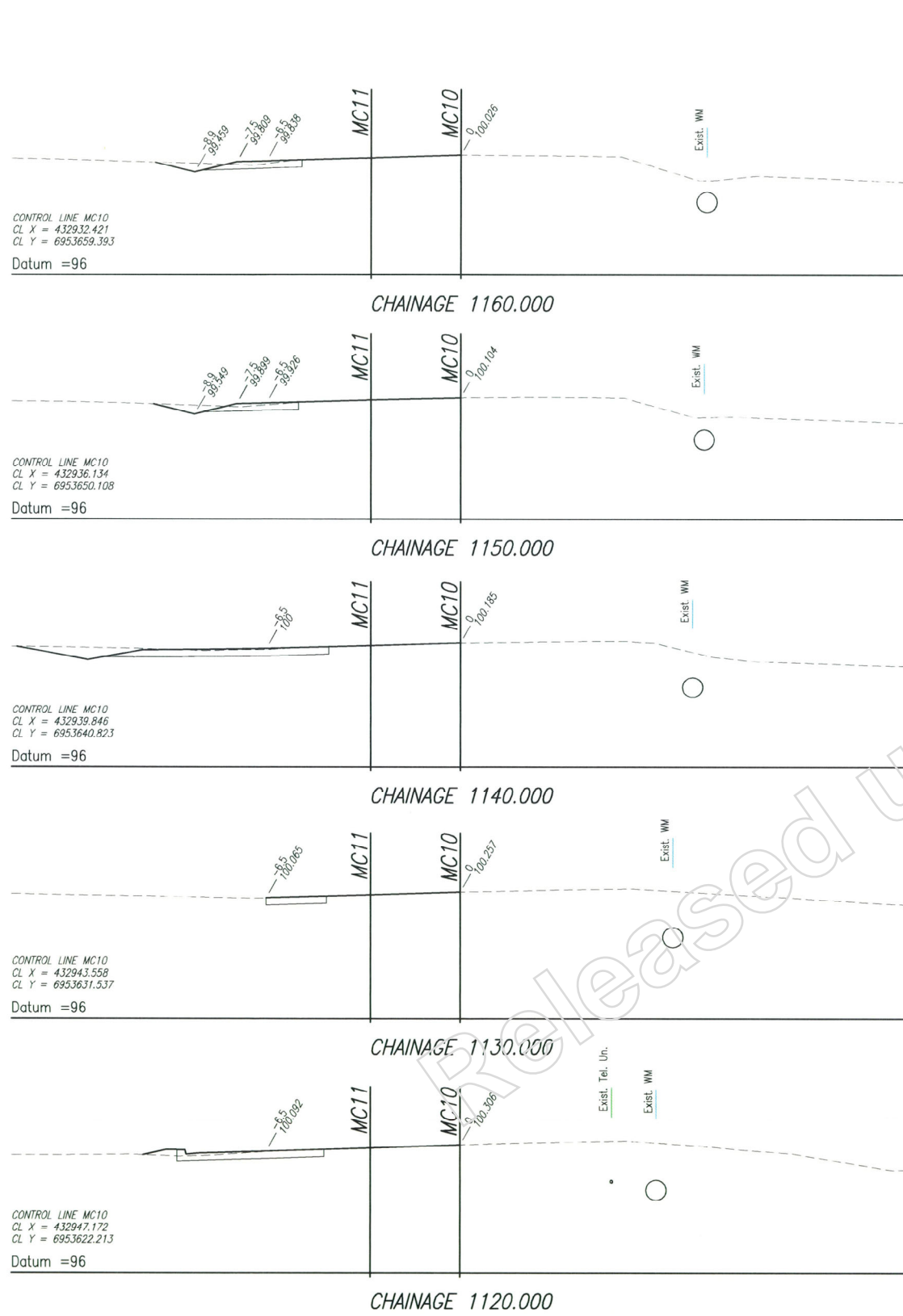
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Dimensions shown in metres except where shown otherwise

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY				
CROSS SECTIONS - CONTROL LINE MC10				
SHEET 1 OF 3				
Drawn	ENGINEERING CERTIFICATION (RPEQ)			
B.DAULTH	ENG. AREA	NAME	SIGNATURE	NO. DATE
Designed	CIVIL	M.WRIGHT	NR	8411/16
N.WILSON				

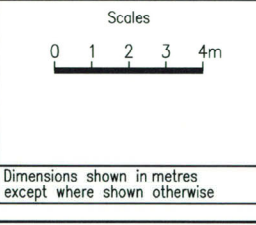
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650928 A
Series Number	of
MRR_Detail (02/14)	



Last Modified: Feb 24, 2016 - 2:57pm XREFS: XC\_MC10\_2.dwg

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Revisions/Descriptions		Certification	Date
			04/10/16
			Microfiled

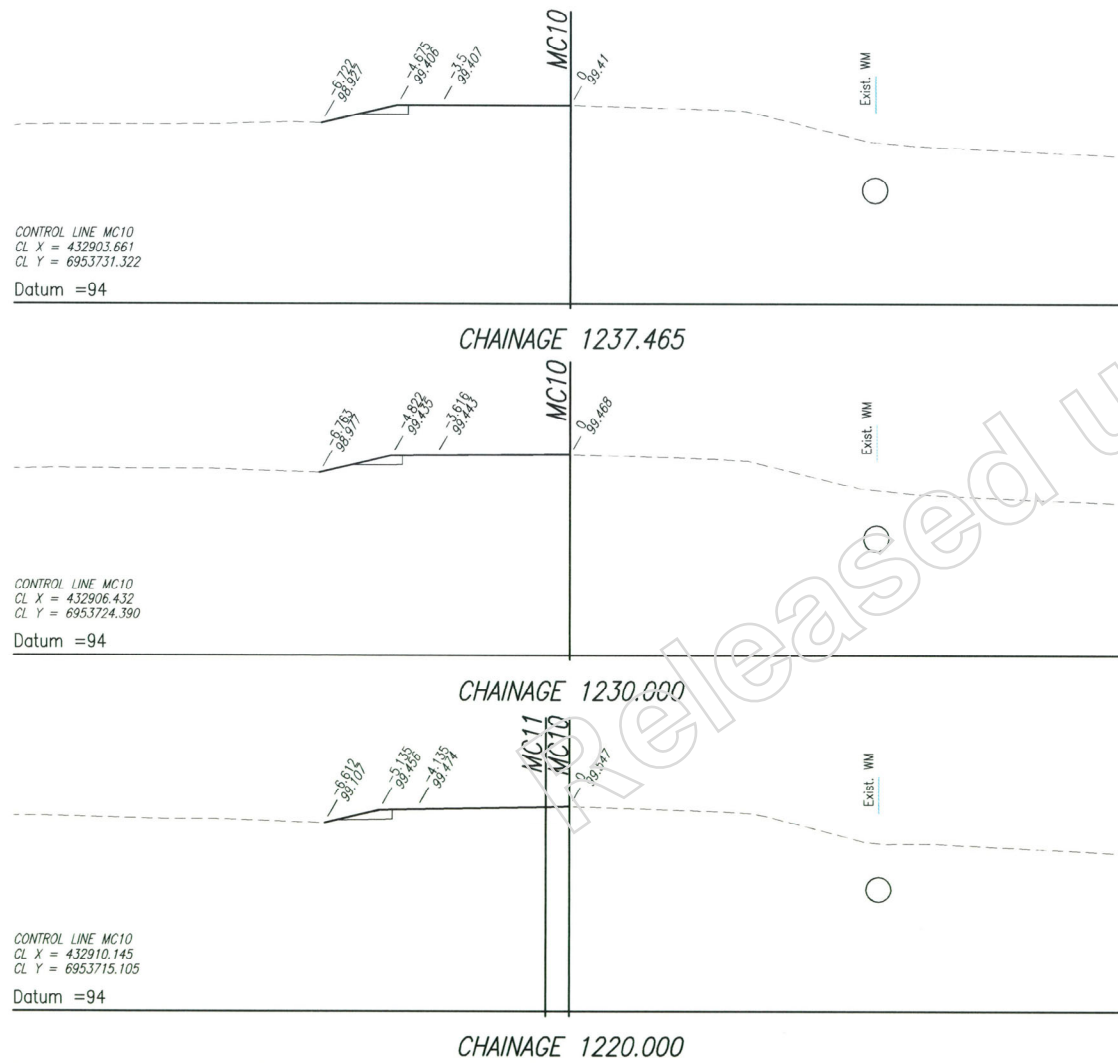
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	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY		CROSS SECTIONS - CONTROL LINE MC10	
SHEET 2 OF 3			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B. DAUTH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M. WRIGHT	NR
N. WILSON			
	NO.	DATE	
	24/11	1/3/16	

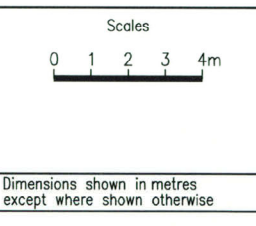
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650929 1A
Series Number	of
MRR_Detail (02/14)	



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Revisions/Descriptions		Certification	Date	Microfilied

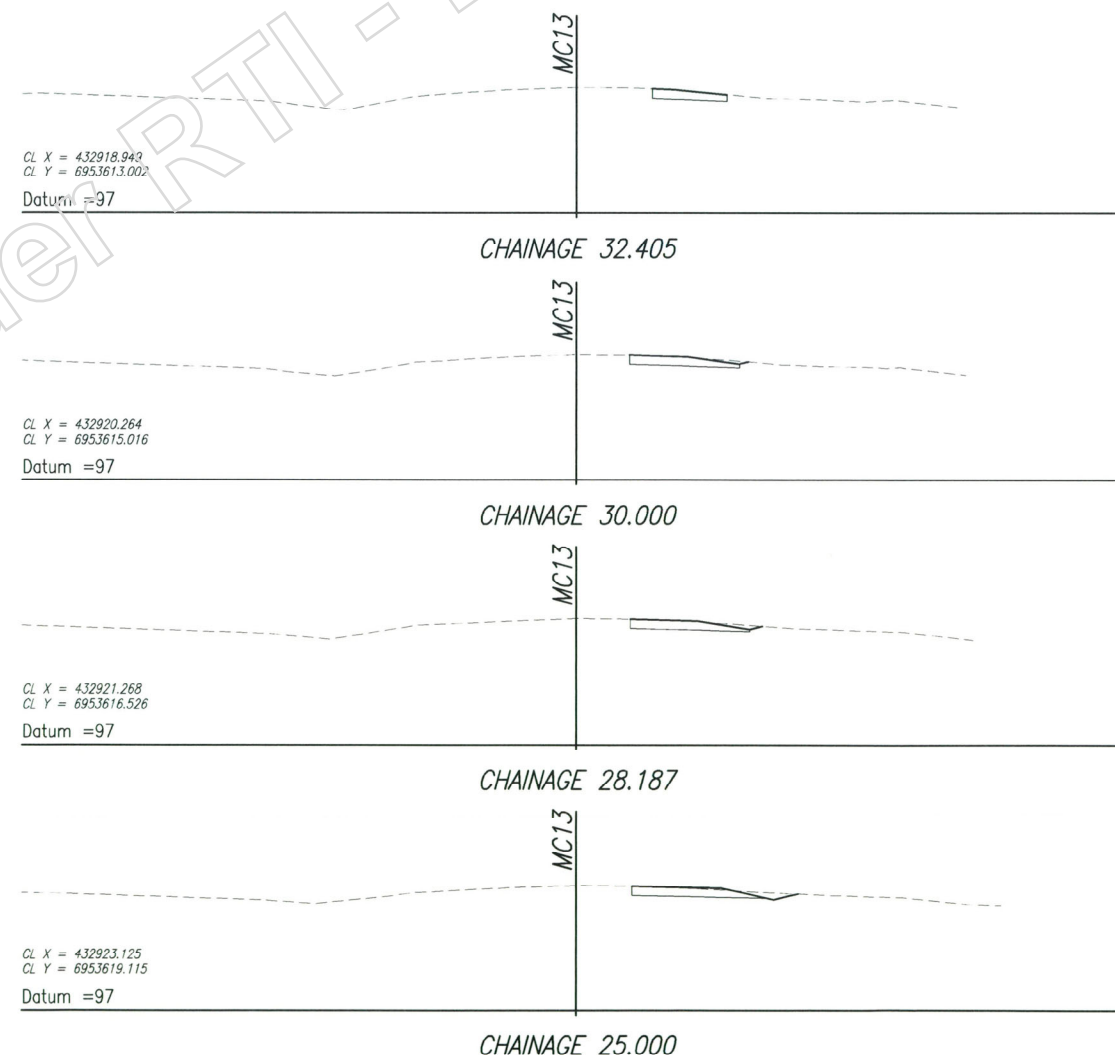
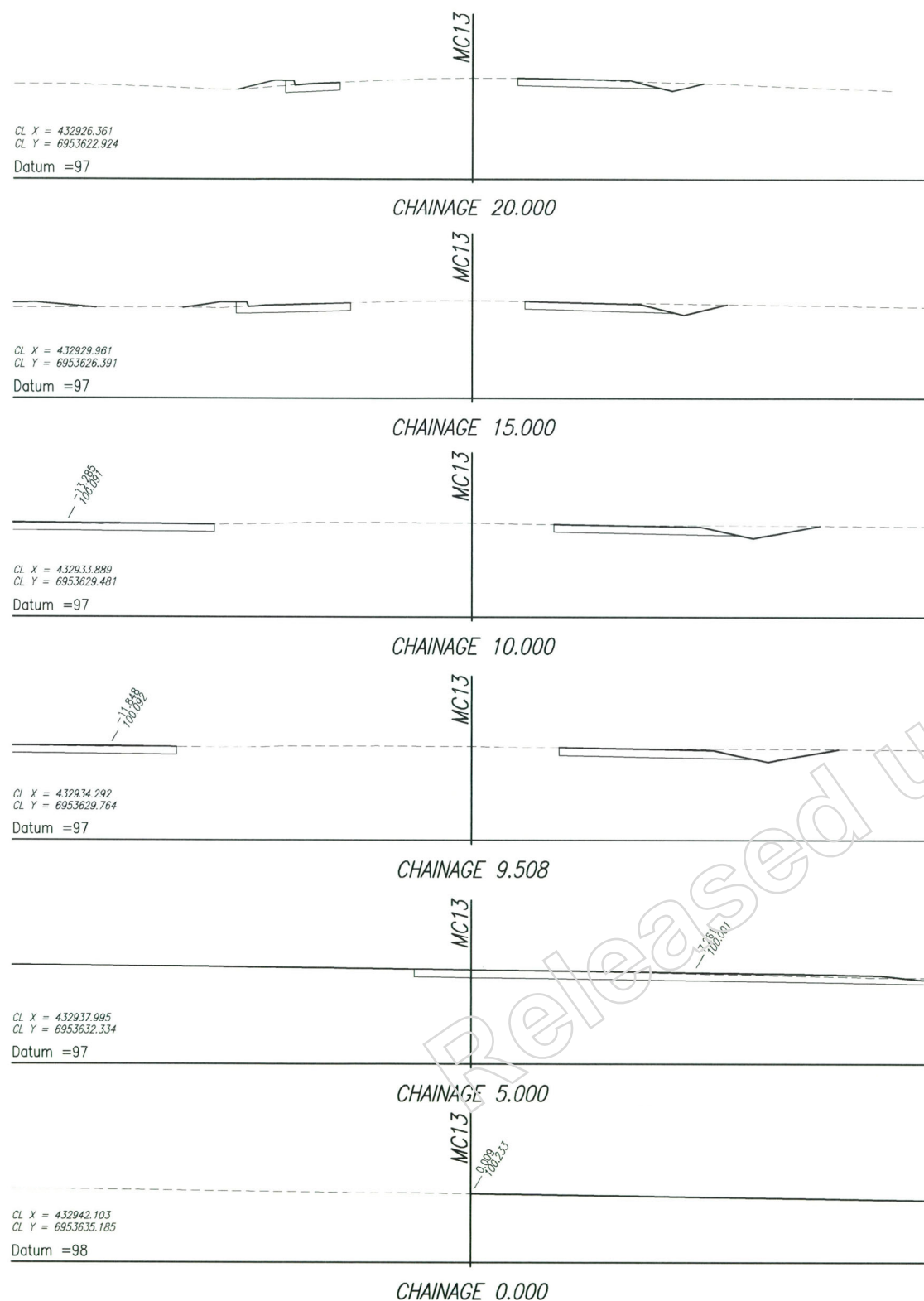
Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY		CROSS SECTIONS - CONTROL LINE MC10	
SHEET 3 OF 3			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B.DAETH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M.WRIGHT	NR
N.WILSON	NO.	DATE	
		1/3/16	

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650930 1A
Series Number	of
MRR_Detail (02/14)	

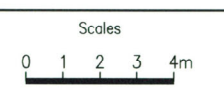


Released under RTI - DTMR

Last Modified: Feb 24, 2016 - 2:57pm XREFS: \\XC\_MC13\_1.dwg

G			
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D			
C			
B			MF
A	Issued For Construction		04/16A
	Revisions/Descriptions	Certification	Date
			Microfiled

Associated Job Nos	Survey Data
	Datum: GDA94
Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057
Dimensions shown in metres except where shown otherwise	

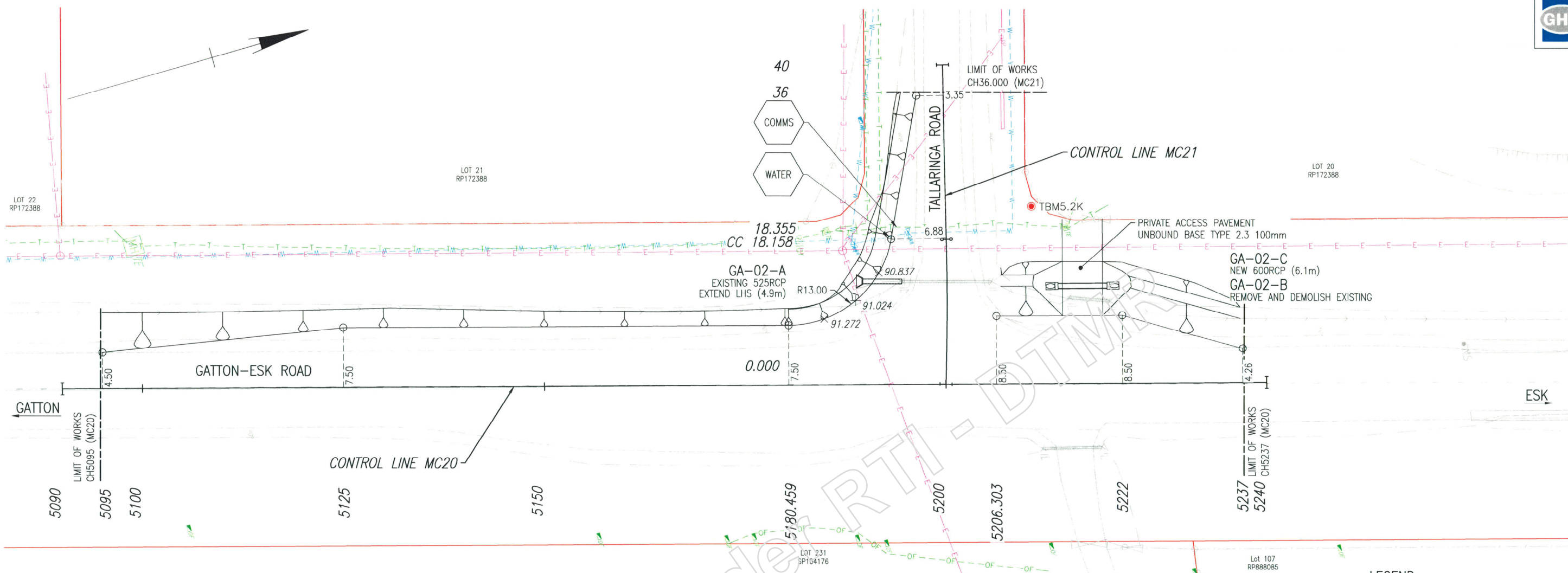


LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY			
CROSS SECTIONS - CONTROL LINE MC13			
SHEET 1 OF 1			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B.DAUTH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M.WRIGHT	NR
N.WILSON			
	NO.	DATE	
	841	1/3/16	

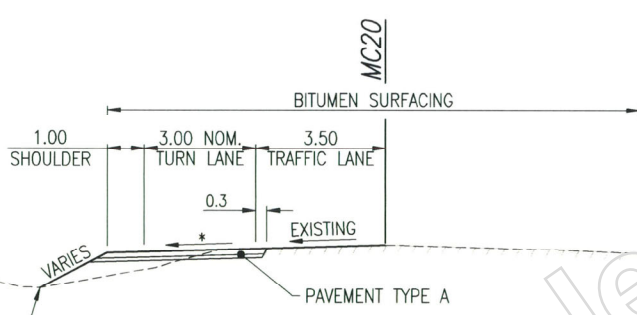
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650931 IA
Series Number	of
MRR_Detail (02/14)	



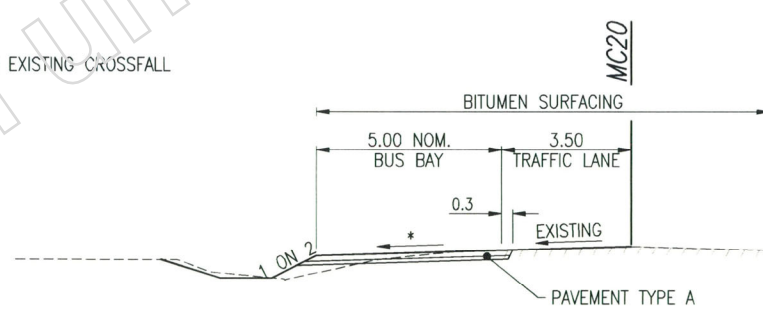


**LEGEND**  
 25.624 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET  
 x 91.272 HEIGHT AT QUARTER POINTS

**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED



TYPICAL CROSS SECTION A  
 CONTROL LINE MC20  
 CH 5125 - 5180.459  
 SCALE B



TYPICAL CROSS SECTION B  
 CONTROL LINE MC20  
 CH 5206.303 - 5237  
 SCALE B

CONTROL LINE MC20

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
START	5090	433680.087	6957102.305	93.383	15°52'19.42"
END	5240	433721.11	6957246.586	90.588	15°52'19.42"

CONTROL LINE MC21

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	433710.171	6957208.111	91.235	287°58'40.66"		
IP2		433701.533	6957210.914			-309.647	18.158
CC	18.158	433692.745	6957213.206	90.943	284°37'05.07"		
IP3		433682.178	6957215.962			1987	21.842
END	40	433671.641	6957218.834	91.037	285°14'52.43"		

SURVEY MARKS

POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN67	433651.717	6957044.195	-	0.99963307	PEG
TBM5.2K	433691.786	6957224.488	90.528	0.99963345	S/PIC
PM	433753.324	6957342.553	89.990	0.99963343	STANDARD
PM83132	433649.411	6956949.804	95.978	0.99963267	S/PIC

**CAUTION**  
 THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 150mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE 1
- 105mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

G			
F			
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D			
C			
B			
A	Issued For Construction		
Revisions/Descriptions		Certification	Date

Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057

LOCKYER VALLEY REGIONAL COUNCIL  
 GATTON-ESK ROAD  
 CTL CHGE 5095 - 5237

Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1D	0.20	0.14	3.08	2

Through Chainage from INTERSECTION 18A/4144, 5.1km - 5.2km

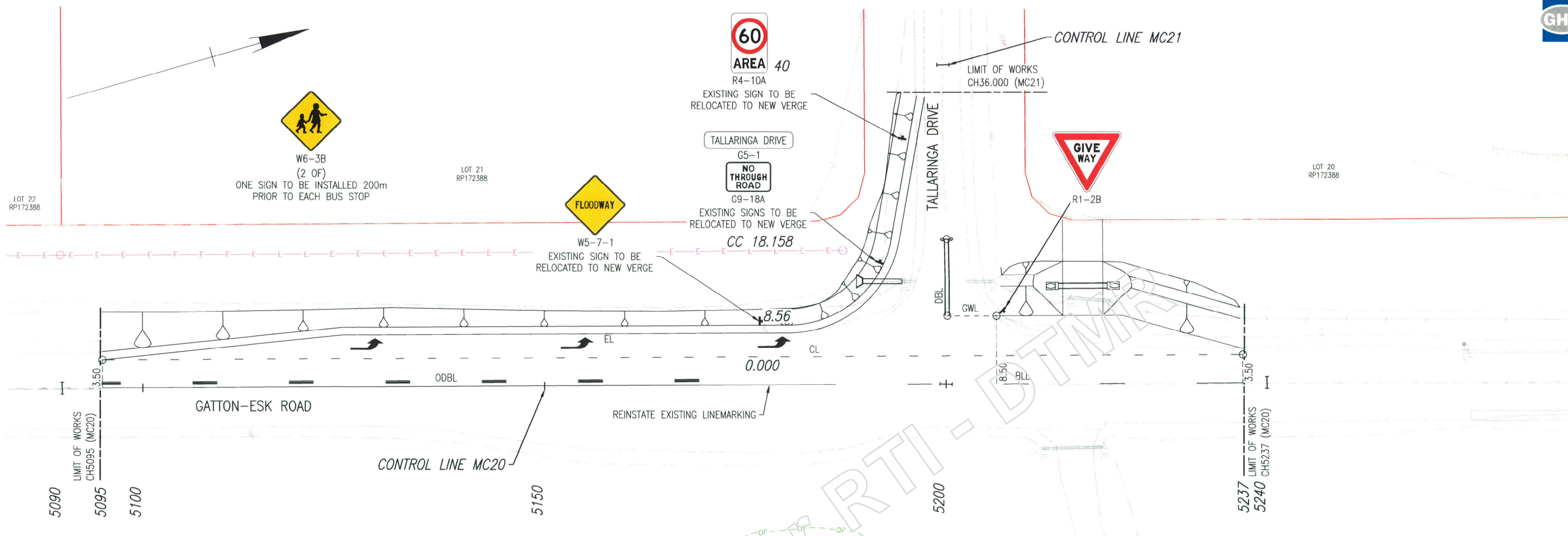
SITE 2 - TALLARINGA DRIVE  
 GENERAL ARRANGEMENT

Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B.DAETH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M-WRIGHT	NR
N.WILSON			

Queensland Government

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650932 1A
Series Number	of

Last Modified: 24 Feb 2016 2:57pm XREFS: X\_S.dwg; X\_DRGA.dwg; X\_DCTL.dwg



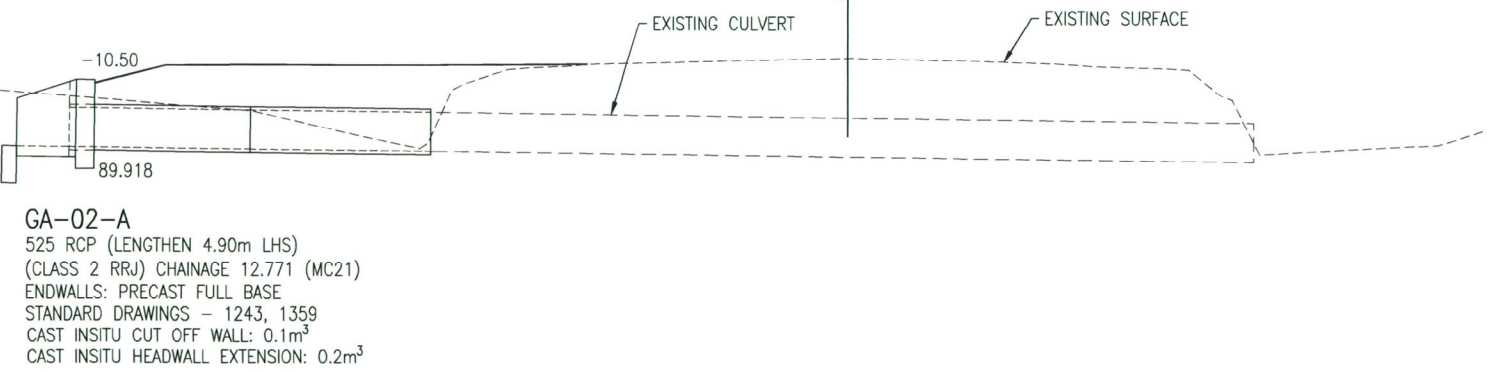
**LEGEND**

DBL	DOUBLE BARRIER LINE (WB)
ODBL	BARRIER LINE - ONE DIRECTION (WB)
BDL	DIVIDING LINE (WB)
EL	EDGE LINE (WB)
CL	CONTINUITY LINE (WB)
GWL	GIVE WAY LINE (TP)
NEW SIGN/SIGN TO BE RELOCATED	
EXISTING SIGN TO REMAIN	
25.624 @ 4.25	SETOUT POINT WITH CHAINAGE AND OFFSET

- NOTES**
- ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  - EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  - ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  - UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  - ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  - RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  - TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  - GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

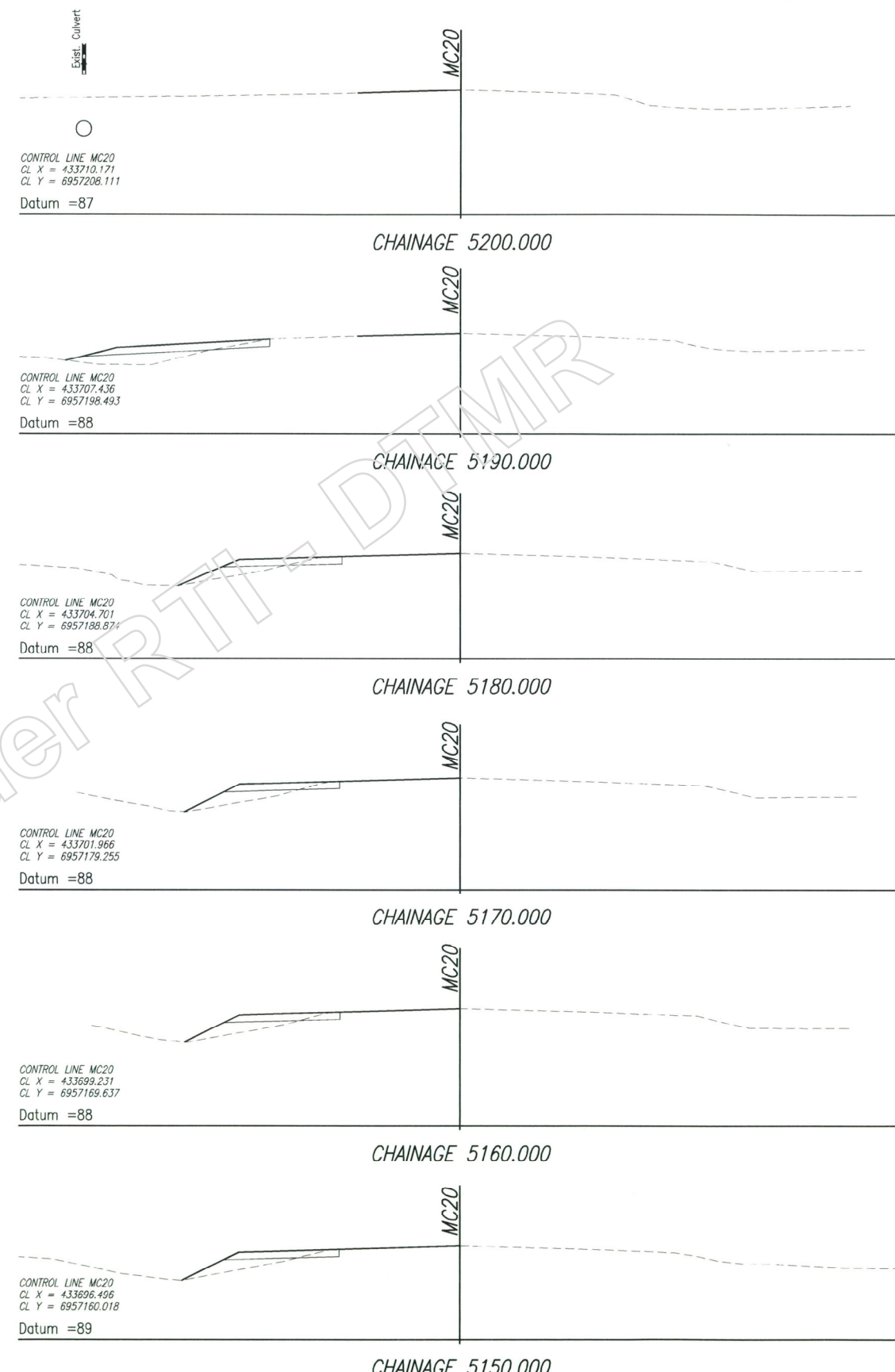
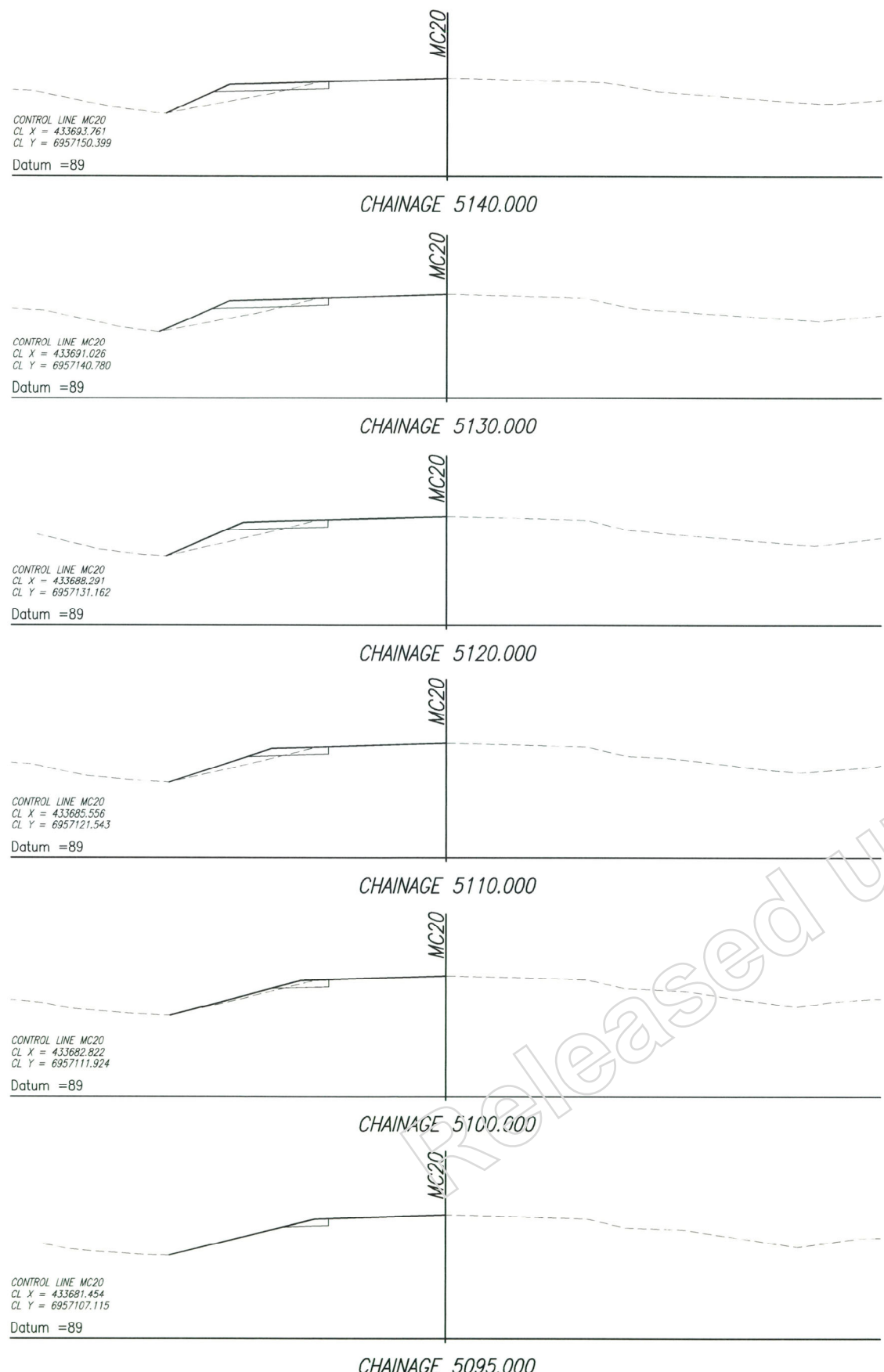
**GA-02-C**  
 600 RCP (6.1m) L OF CH5219  
 UNDER PRIVATE ACCESS  
 INLET 12.2m L OF CH5215.8 HT89.812  
 OUTLET 12.2m L OF CH522.19 HT89.705  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.2m<sup>3</sup>

**GA-02-B**  
 EXISTING 600 RCP  
 REMOVE AND DEMOLISH



Last Modified: 16-Feb-2016 2:58pm XREFS: X\_S.dwg; X\_DRGA.dwg; X\_DCTL.dwg

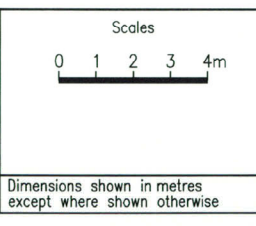
G T E D C B A Issued For Construction	Associated Job Nos	Survey Data	Scales 0 2 4 6 8 10m Dimensions shown in metres except where shown otherwise	LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 5095 - 5237					SITE 2 - TALLARINGA DRIVE LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS				Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650933 A Series Number of MRR Detail (02/14)		
	Auxiliary Drg Nos	Horiz. Grid		Reference Points					ENGINEERING CERTIFICATION (RPEQ)						
	Survey Origin	Height Origin		Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn	ENG. AREA	NAME	SIGNATURE		NO.	DATE
	Survey Books	MR100057		1D	0.20	0.14	3.08	2	B.DAETH	CIVIL	M.WRIGHT	NR		8411/13/16	



Last Modified: 16 Feb 24, 2016 - 2:58pm XREFS: \\XC\_MC20\_1.dwg

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F				
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D				
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A	Issued For Construction			MF 04.16.16
Revisions/Descriptions		Certification	Date	Microfiled
CAD FILES N:\AU\Toowoomba\Projects\41\29381\CADD\Autocad\Drawings\02_XS-01.dwg				

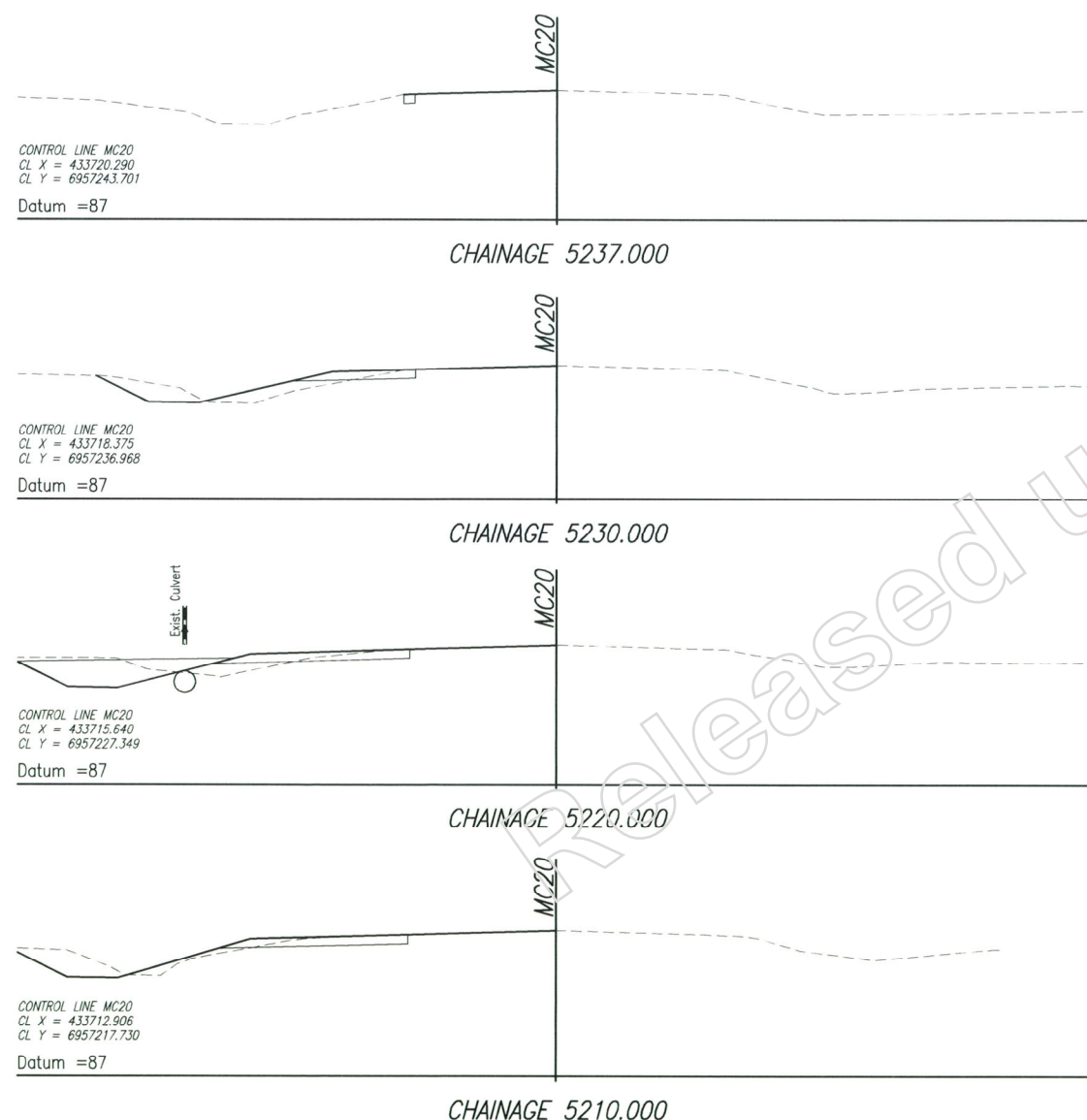
Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
Survey Books	MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 5095 - 5237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1D	0.20	0.14	3.08	2
Through Chainage from INTERSECTION 18A/4144, 5.1km - 5.2km				

SITE 2 - TALLARINGA DRIVE				
CROSS SECTIONS - CONTROL LINE MC20				
SHEET 1 OF 2				
Drawn	ENGINEERING CERTIFICATION (RPEQ)			
B.DAULTH	ENG. AREA	NAME	SIGNATURE	NO. DATE
Designed	CIVIL	M.WRIGHT	NR	841 1/5/16
N.WILSON				

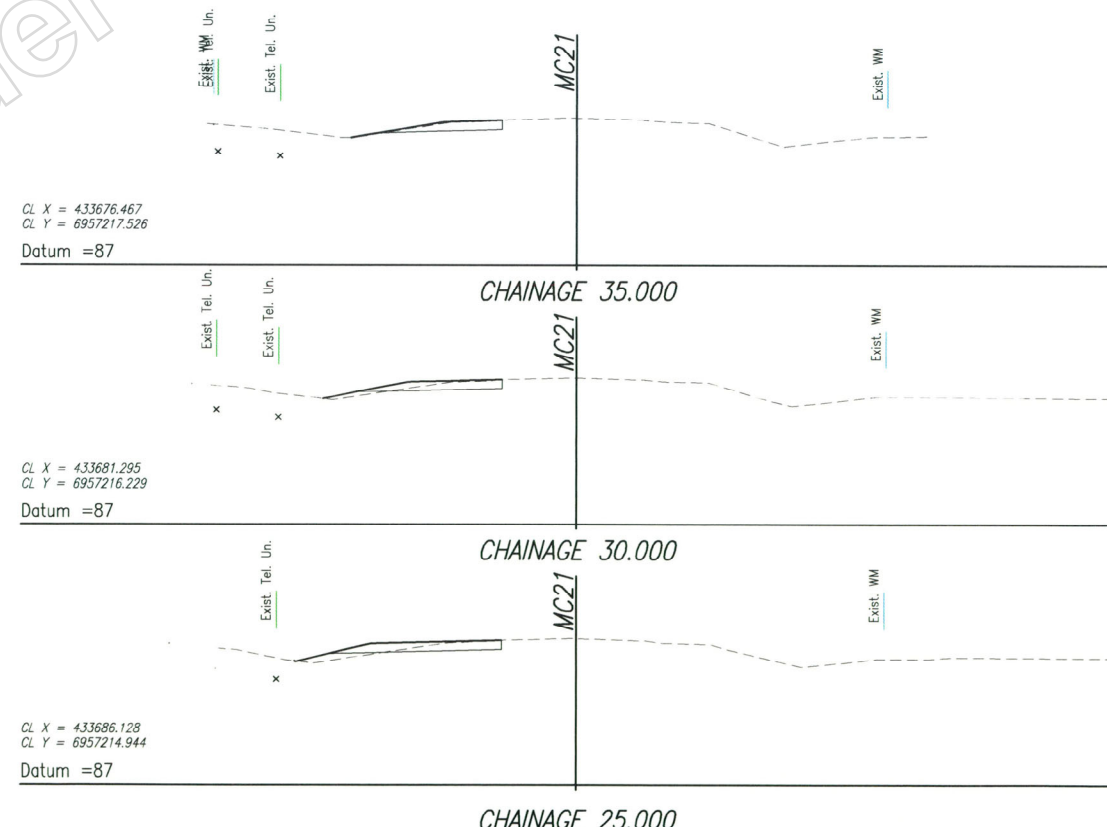
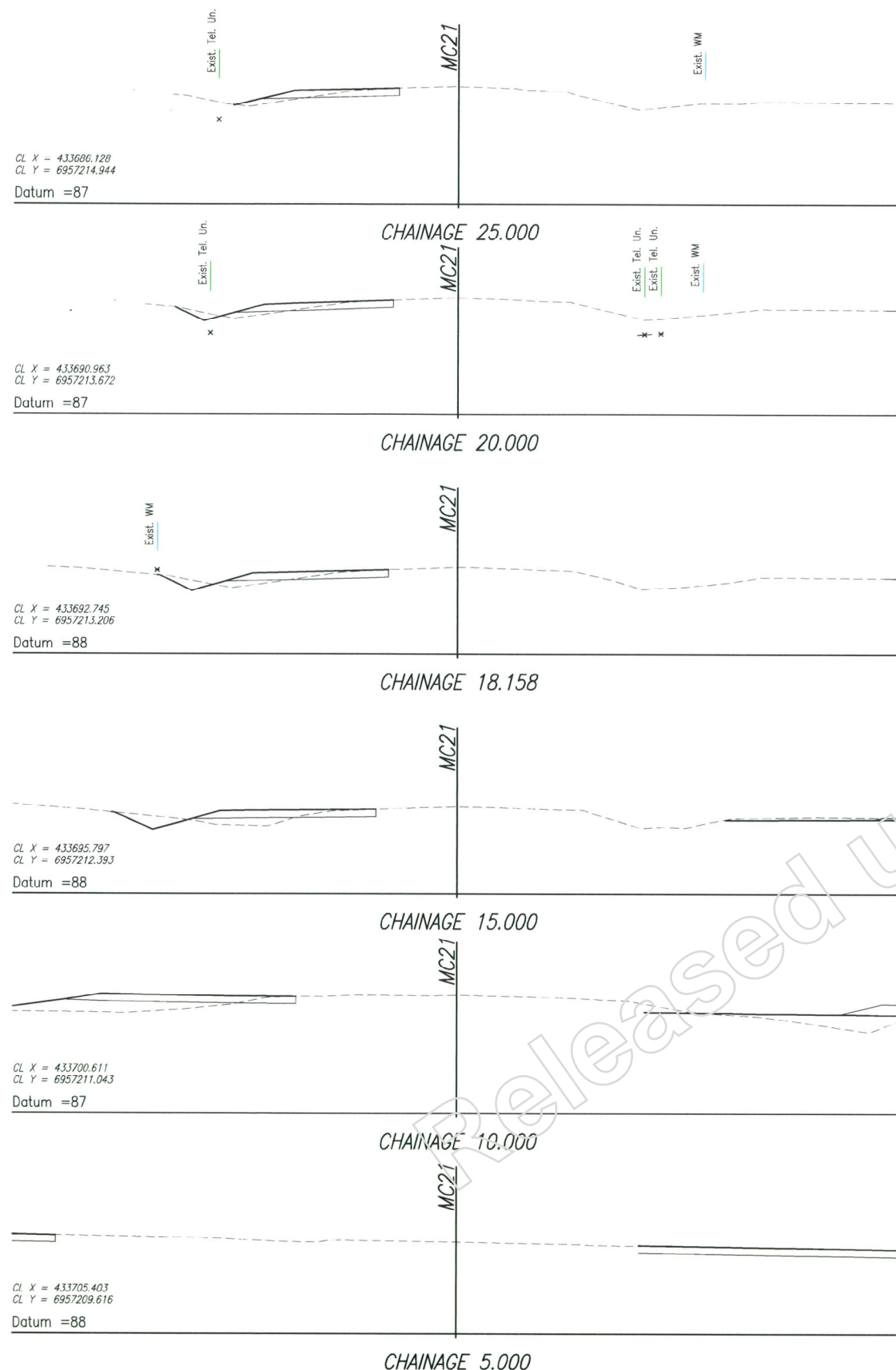
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650934 A
Series Number	of
MRR Detail (02/14)	



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Last Modified: 16 Feb 24, 2016 - 2:58pm XREFS: MC\_MC20\_2.dwg

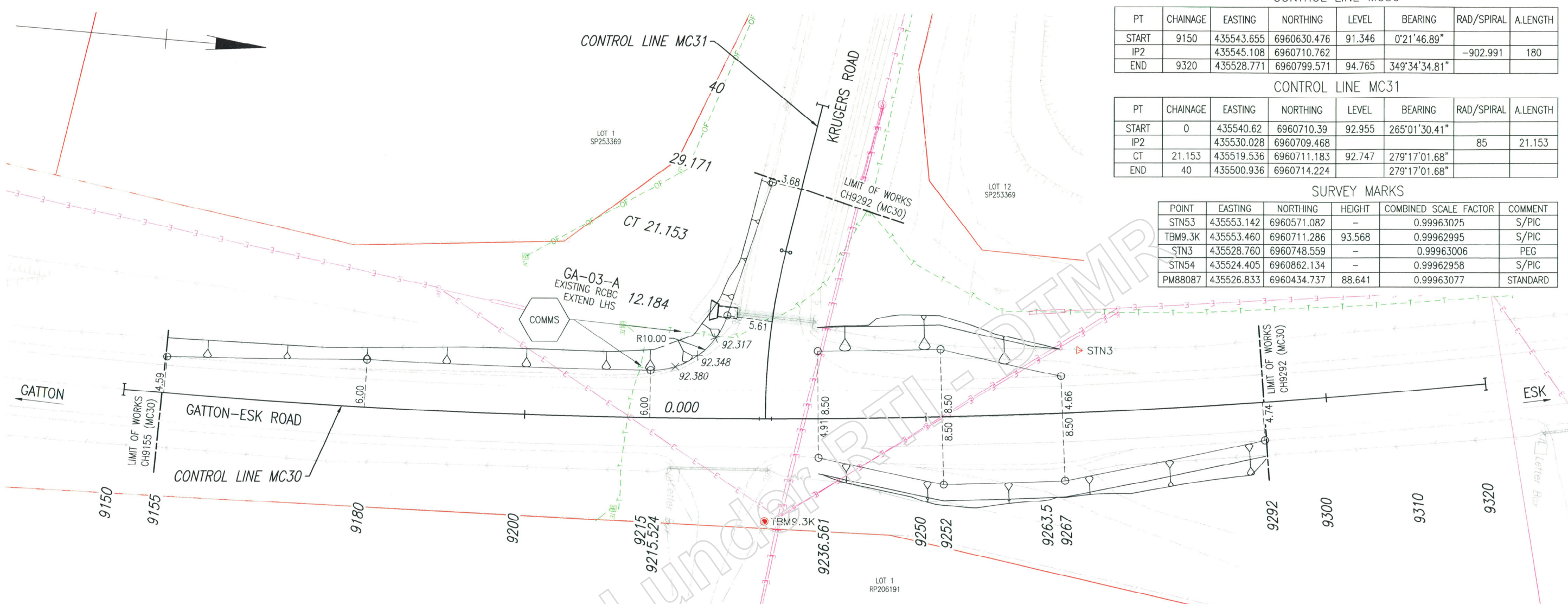
G	Associated Job Nos	Survey Data	Scales	LOCKYER VALLEY REGIONAL COUNCIL					SITE 2 - TALLARINGA DRIVE																																		
				GATTON-ESK ROAD					CROSS SECTIONS - CONTROL LINE MC20																																		
F	Auxiliary Drg Nos	Datum	GDA94	CTL CHGE					SHEET 2 OF 2				Job No.	239/4144/2																													
E		Horiz. Grid	MGA94	5095 - 5237					ENGINEERING CERTIFICATION (RPEQ)				Contract No.	DDWD-88																													
D	Survey Books	Height Origin	AHD DERIVED	Reference Points					Drawn	<table border="1"> <tr> <th>ENG. AREA</th> <th>NAME</th> <th>SIGNATURE</th> <th>NO.</th> <th>DATE</th> </tr> <tr> <td>CIVIL</td> <td>M. WRIGHT</td> <td>NR</td> <td>841</td> <td>1/3/16</td> </tr> </table>				ENG. AREA	NAME	SIGNATURE	NO.	DATE	CIVIL	M. WRIGHT	NR	841	1/3/16	Designed	<table border="1"> <tr> <th>Preceding RP</th> <th>Dist. to start of job (km)</th> <th>From start to end of job</th> <th>From end to Following RP</th> <th>Following RP</th> </tr> <tr> <td>1D</td> <td>0.20</td> <td>0.14</td> <td>3.08</td> <td>2</td> </tr> </table>				Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	1D	0.20	0.14	3.08	2	Series Number	650935		of	1A
ENG. AREA		NAME	SIGNATURE	NO.	DATE																																						
CIVIL	M. WRIGHT	NR	841	1/3/16																																							
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP																																							
1D	0.20	0.14	3.08	2																																							
C	Revisions/Descriptions	Certification	Date	Dimensions shown in metres except where shown otherwise	Through Chainage from INTERSECTION 18A/4144, 5.1km - 5.2km					N. WILSON	MRR Detail (02/14)																																
B																																											
A	Issued For Construction																																										



Released under RTI - DTMR

Last Modified: 15-Feb-2016 2:58pm XREFS: \AU\Toowoomba\Projects\4129381\CADD\Autocad\Drawings\02\_XS-03.dwg

G	Associated Job Nos	Survey Data		Scales 0 1 2 3 4m	LOCKYER VALLEY REGIONAL COUNCIL					SITE 2 - TALLARINGA DRIVE					Queensland Government										
		Datum	GDA94		GATTON-ESK ROAD					CROSS SECTIONS - CONTROL LINE MC21															
D	Auxiliary Drg Nos	Horiz. Grid		Dimensions shown in metres except where shown otherwise	CTL CHGE 5095 - 5237					SHEET 1 OF 1															
		Height Origin	AHD DERIVED		Reference Points					ENGINEERING CERTIFICATION (RPEQ)															
A	Issued For Construction	Revisions/Descriptions	Certification	Date	Survey Books	MR100057	Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn	B.DAETH	ENG. AREA	CIVIL	NAME	M.WRIGHT	SIGNATURE	NR	NO.	841	DATE	1/3/16	Job No.	239/4144/2
						Contract No.	DDWD-88	Drawing No.	650936 1A	Series Number		of		MRR_Detail (02/14)											



CONTROL LINE MC30

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	9150	435543.655	6960630.476	91.346	0°21'46.89"		
IP2		435545.108	6960710.762			-902.991	180
END	9320	435528.771	6960799.571	94.765	349°34'34.81"		

CONTROL LINE MC31

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	435540.62	6960710.39	92.955	265°01'30.41"		
IP2		435530.028	6960709.468			85	21.153
CT	21.153	435519.536	6960711.183	92.747	279°17'01.68"		
END	40	435500.936	6960714.224		279°17'01.68"		

SURVEY MARKS

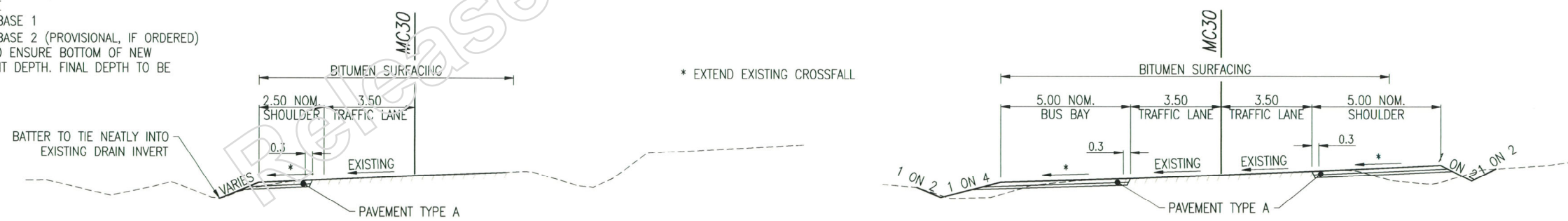
POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN53	435553.142	6960571.082	-	0.99963025	S/PIC
TBM9.3K	435553.460	6960711.286	93.568	0.99962995	S/PIC
STN3	435528.760	6960748.559	-	0.99963006	PEG
STN54	435524.405	6960862.134	-	0.99962958	S/PIC
PM88087	435526.833	6960434.737	88.641	0.99963077	STANDARD

- PAVEMENT TYPE A**
- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
  - 150mm TYPE 2.1 UNBOUND BASE
  - 100mm TYPE 2.3 UNBOUND SUBBASE 1
  - 155mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)
- NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

**LEGEND**

25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

x 91.272 HEIGHT AT QUARTER POINTS



**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

**PAVEMENT DESIGN PARAMETERS**

PAVEMENT DESIGN COMPLETED BY TMR.

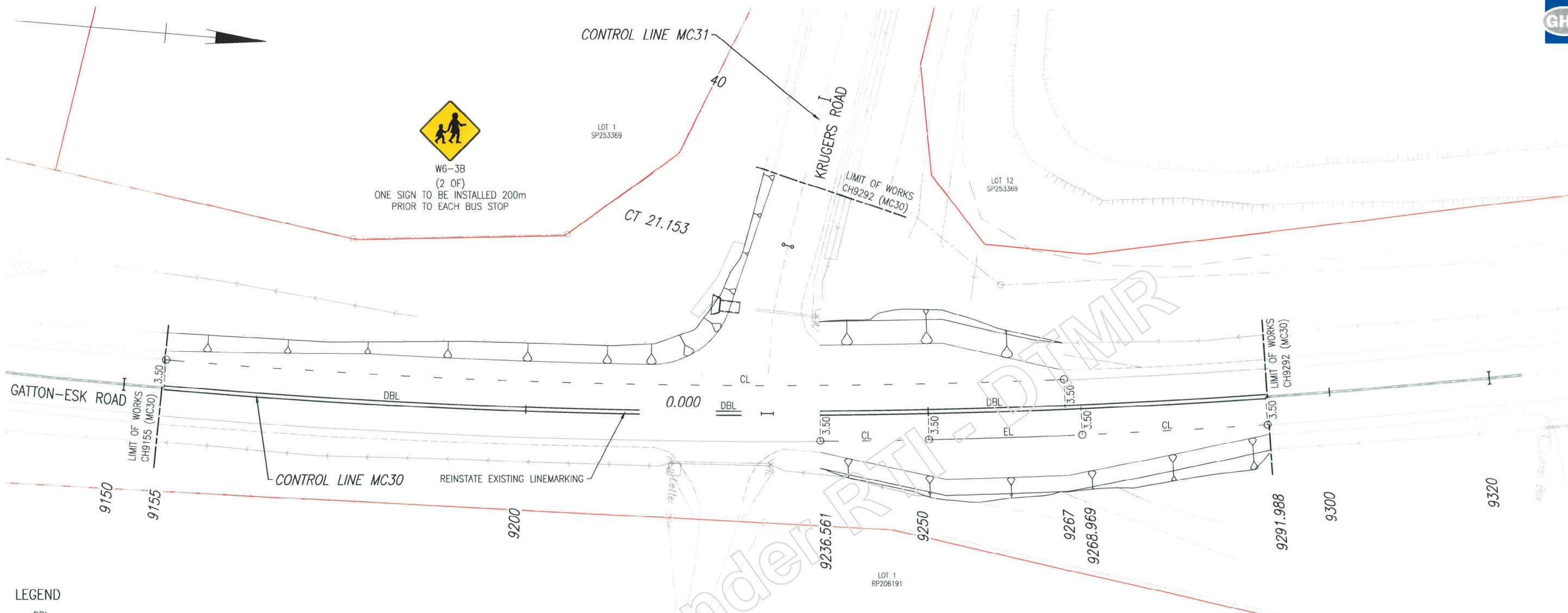
DESIGN LIFE = 20 YEARS

DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S

DESIGN SUBGRADE CBR = 15 SOAKED

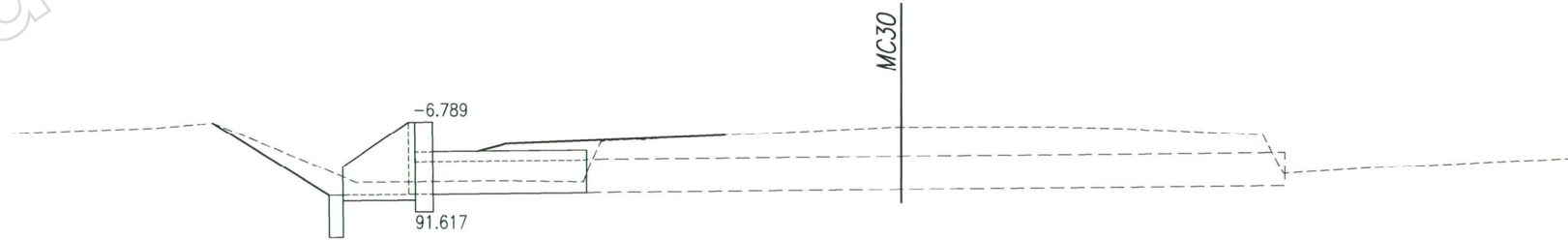
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G E D C B A Issued For Construction	Associated Job Nos	Survey Data	Scales A 0 2 4 6 8 10m B 0 1 2 3 4m Dimensions shown in metres except where shown otherwise	LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 9155 - 9292				SITE 3 - KRUGERS ROAD GENERAL ARRANGEMENT				Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650937 1A Series Number of MRR Detail (02/14)
	Auxiliary Drg Nos	Datum GDA94		Drawn B.DAETH Designed N.WILSON	ENGINEERING CERTIFICATION (RPEQ) ENG. AREA NAME SIGNATURE NO. DATE CIVIL M.WRIGHT NR 8411 1/3/16							
	Horiz. Grid MGA94	Preceding RP 2 Dist. to start of job (km) 0.84 From start to end of job 0.12 From end to Following RP 8.48 Through Chainage from INTERSECTION 18A/4144, 9.2km - 9.3km		Reference Points Preceding RP 2 Dist. to start of job (km) 0.84 From start to end of job 0.12 From end to Following RP 8.48 Following RP 4								
	Height Origin AHD DERIVED	Survey Books MR100057										



- LEGEND**
- DBL DOUBLE BARRIER LINE (WB)
  - EL EDGE LINE (RRPM'S @ 12m CRS) (WB)
  - CL CONTINUITY LINE (WB)
  - EXISTING SIGN TO REMAIN
  - 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

- NOTES**
1. ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  2. EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  3. ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  4. UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  5. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  6. RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  7. TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  8. GUIDE POSTS TO BE INSTALLED AS PER MUTCD.



**GA-03-A**  
 1200x450 RCBC (LENGTHEN 2.40m LHS)  
 (CLASS 2 RRJ) CHAINAGE 12.948  
 ENDWALLS: PRECAST  
 STANDARD DRAWING - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.3m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.4m<sup>3</sup>

Last Modified: 24 Feb 2016 2:58pm XREFS: X\_S.cwg; X\_DROW.dwg; X\_DCTL.dwg

G			
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A	Issued For Construction		MF 04.16 A
Revisions/Descriptions		Certification	Date
			Microfiled

Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057

Scales

0 2 4 6 8 10m

Dimensions shown in metres except where shown otherwise

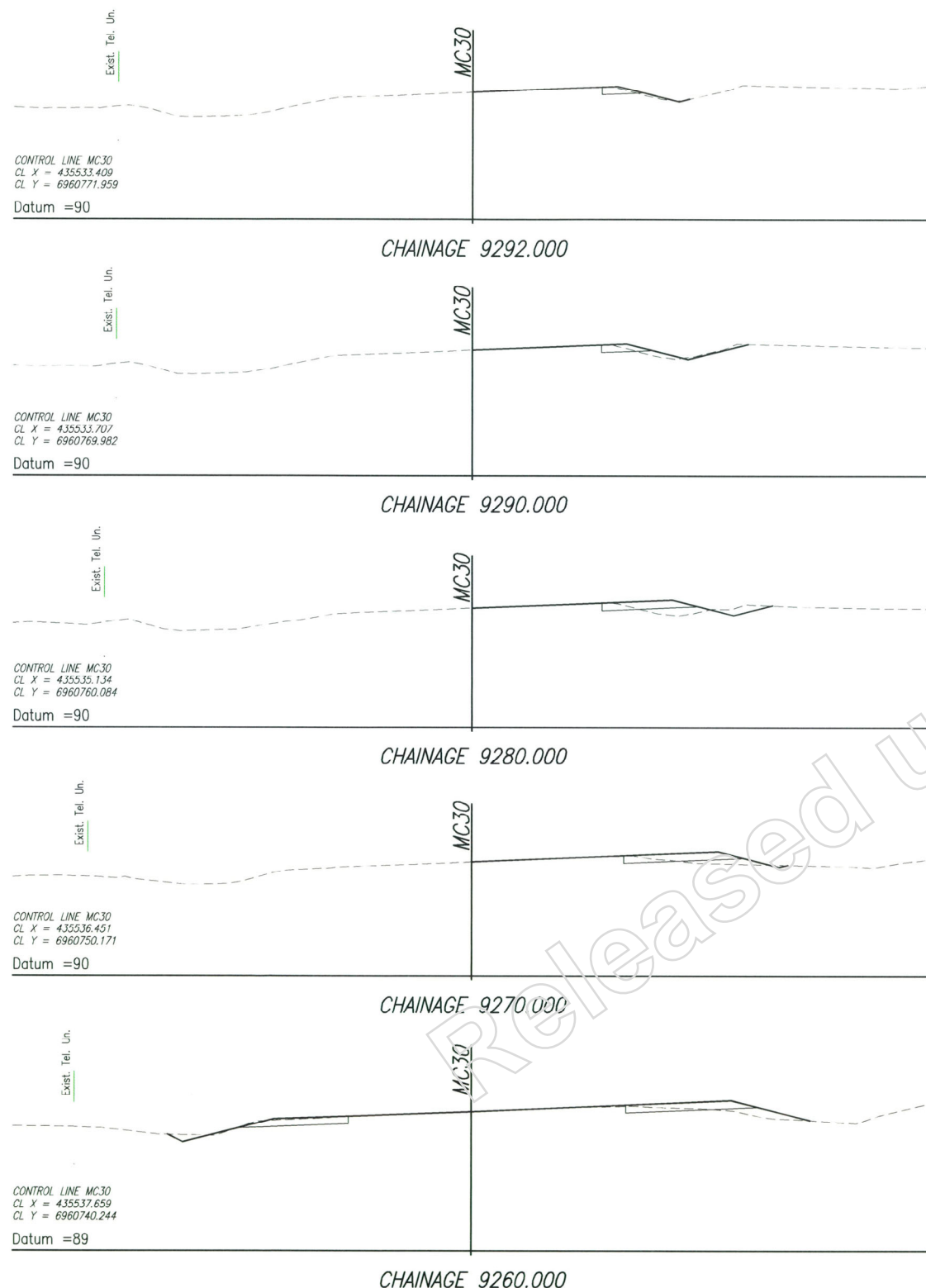
LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 9155 - 9310				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	0.84	0.12	8.48	4
Through Chainage from INTERSECTION 18A/4144, 9.2km - 9.3km				

SITE 3 - KRUGERS ROAD		LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS	
Drawn	B.DAUTH	ENGINEERING CERTIFICATION (RPEQ)	
Designed	N.WILSON	ENG. AREA	CIVIL
		NAME	M.WRIGHT
		NO.	8411/3/A
		DATE	1/3/16

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650938 1A
Series Number	of
MRR Detail (02/14)	





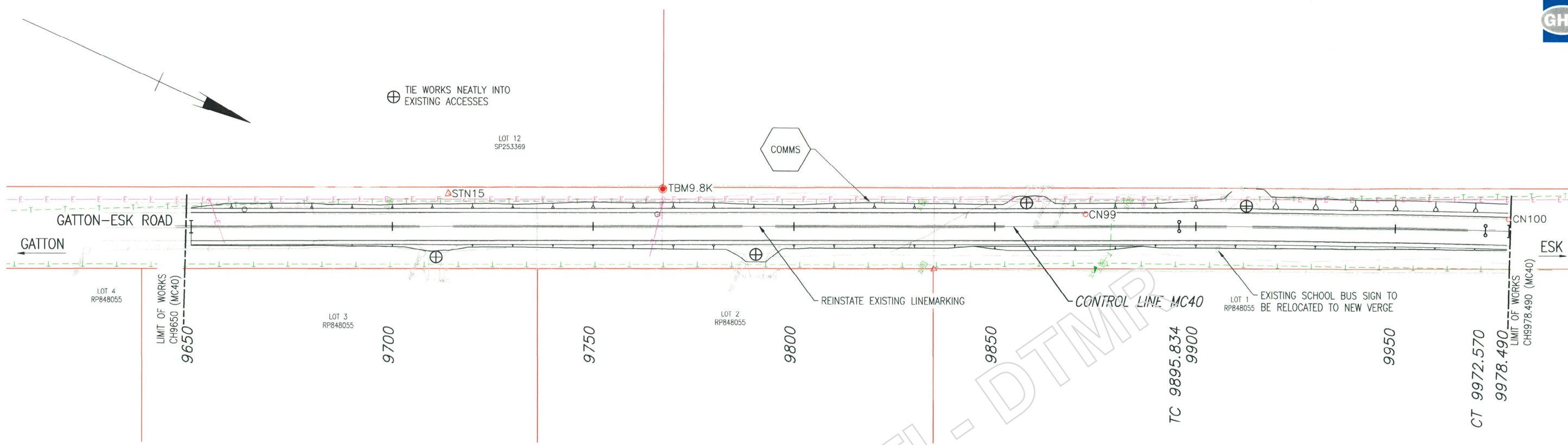


Released under RTI - DTMR

Last Modified :- Feb 24, 2016 - 2:58pm XREFS :- XC\_MC30\_2.dwg

G	F	E	D	C	B	A	Associated Job Nos	Survey Data	Scales 0 1 2 3 4m	LOCKYER VALLEY REGIONAL COUNCIL					SITE 3 - KRUGERS ROAD							
							GATTON-ESK ROAD					CROSS SECTIONS - CONTROL LINE MC30				SHEET 2 OF 2		Job No.		239/4144/2		
A Issued For Construction							Auxiliary Drg Nos	Datum	Horiz. Grid	CTL CHGE 9155 - 9292					ENGINEERING CERTIFICATION (RPEQ)				Contract No.	DDWD-88		
Revisions/Descriptions							Survey Books	Height Origin	MR100057	Reference Points					Drawn	CIVIL M.WRIGHT				Drawing No.	650940 1A	
Certification							MR100057	MR100057	Dimensions shown in metres except where shown otherwise					Designed	N.WILSON				Series Number	of		
Date							Through Chainage from INTERSECTION 18A/4144, 9.2km - 9.3km					NO. DATE				84/ 1/5/16		MRR_Detail (02/14)				
CAD FILES							N:\AU\Toowoomba\Projects\4129381\CADD\Autocad\Drawings\03_XS-02.dwg															



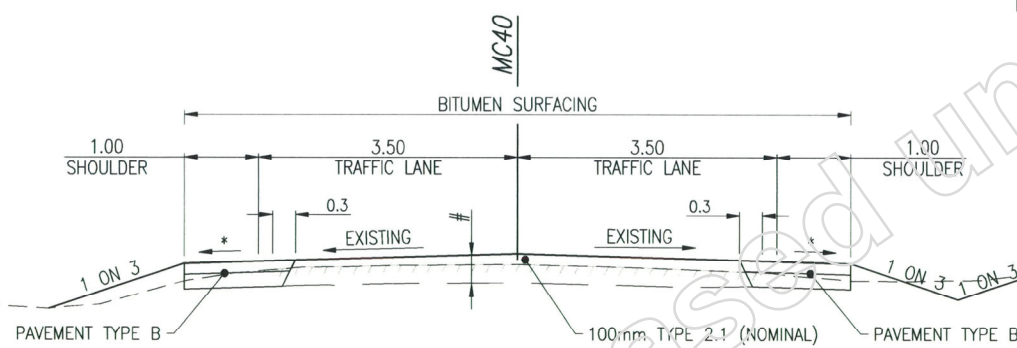


**SURVEY MARKS**

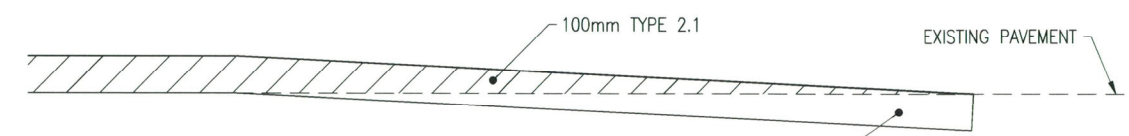
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TBM9.8KM	435361.660	6961208.272	102.958	0.99962878	S/PIC
CN99	435323.804	6961306.573	-	0.99962863	NAIL
CN100	435280.769	6961403.283	-	0.99962851	NAIL
PM37443	435259.560	6961433.845	105.497	0.99962854	STANDARD

**CONTROL LINE MC40**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	9650	435419.033	6961105.519	101.161	335°24'31.29"		
TC	9895.834	435316.73	6961329.056	104.67	335°24'31.29"		
IP2		435300.763	6961363.946			3000	76.736
CT	9972.57	435285.693	6961399.233	105.332	336°52'27.26"		
END	9978.49	435283.368	6961404.677	105.373	336°52'27.26"		



\*EXTEND EXISTING CROSSFALL  
#EXISTING BITUMEN SEAL TO BE SCARIFIED AND TOP 250mm TO BE MECHANICAL STABILISED



**RAMPED PAVEMENT JOINT DETAIL**  
CH 9650 - 9689.5  
CH 9939.6 - 9978.5  
N.T.S.

- PAVEMENT TYPE B**
- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (FULL WIDTH)
  - 100mm TYPE 2.1 UNBOUND BASE
  - 250mm TYPE 2.3 UNBOUND SUBBASE

**TYPICAL CROSS SECTION**  
CONTROL LINE MC40  
CH 9650 - 9970  
SCALE B

**PAVEMENT DESIGN PARAMETERS**

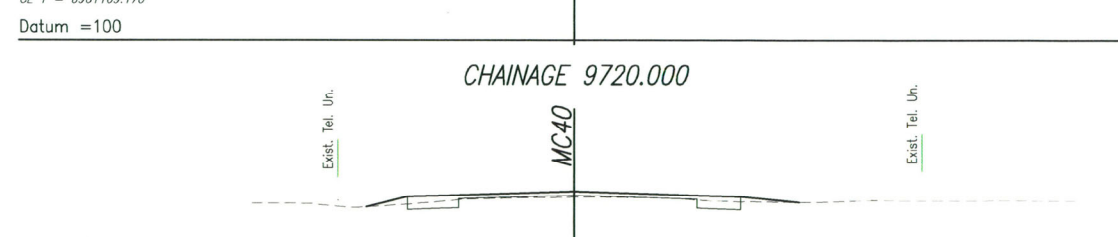
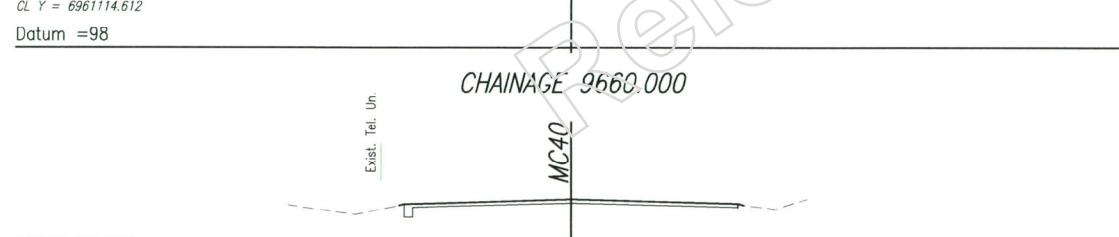
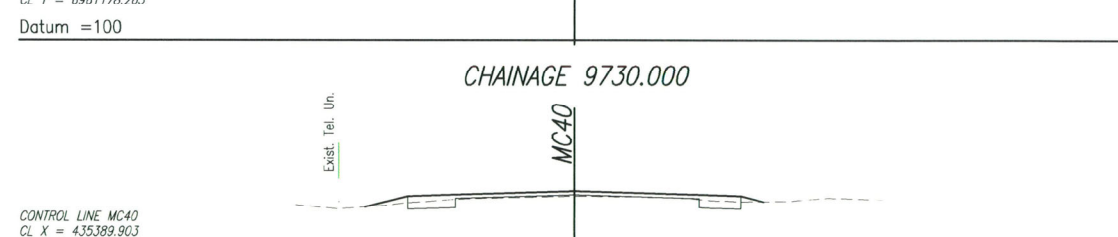
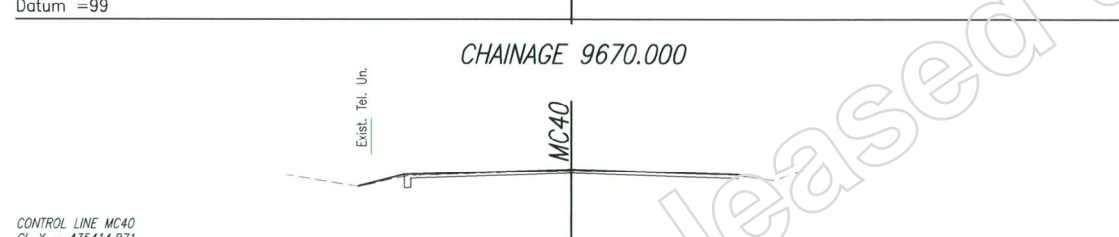
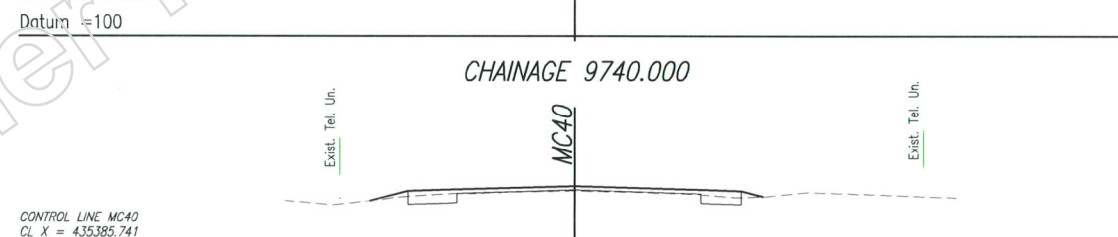
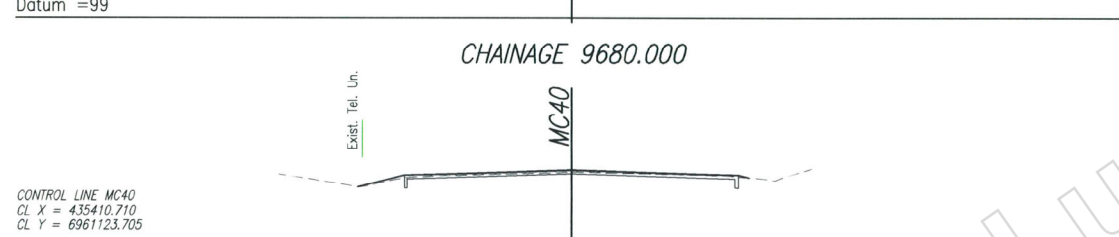
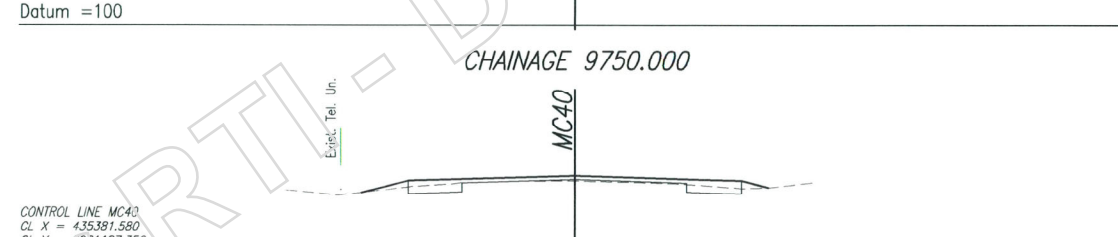
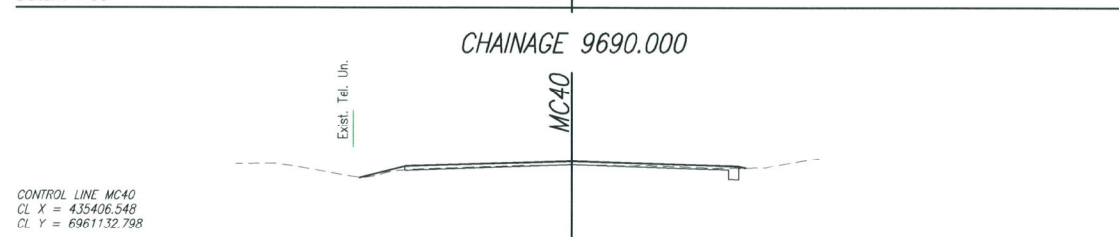
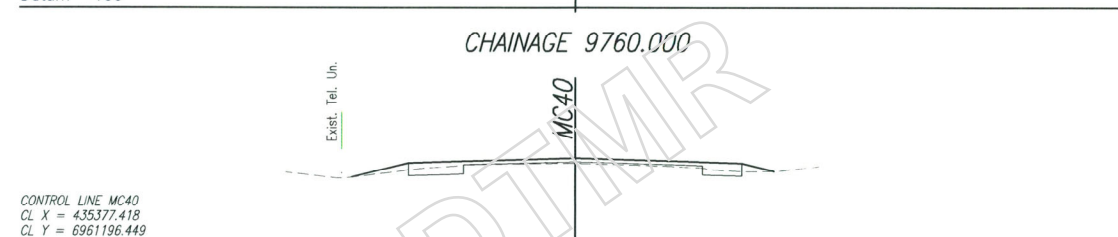
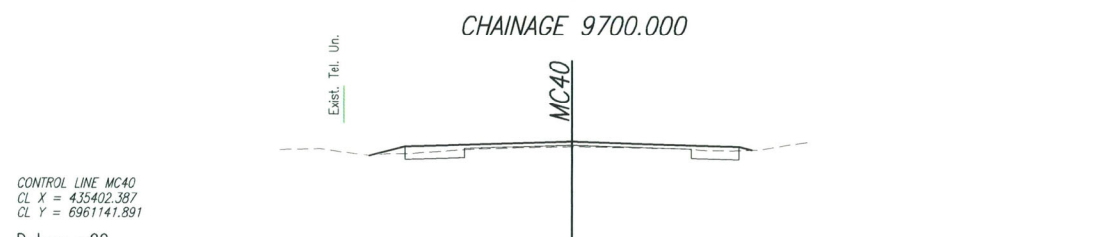
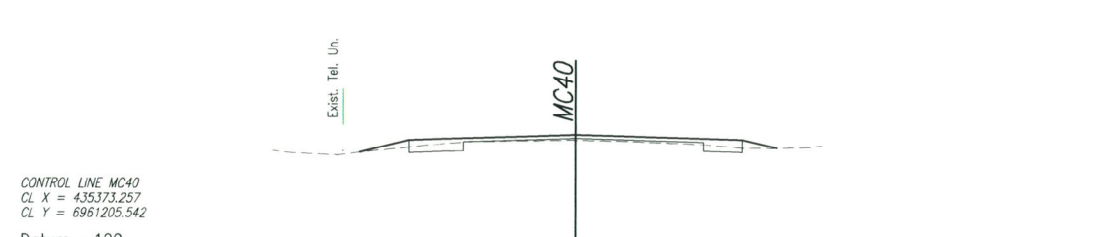
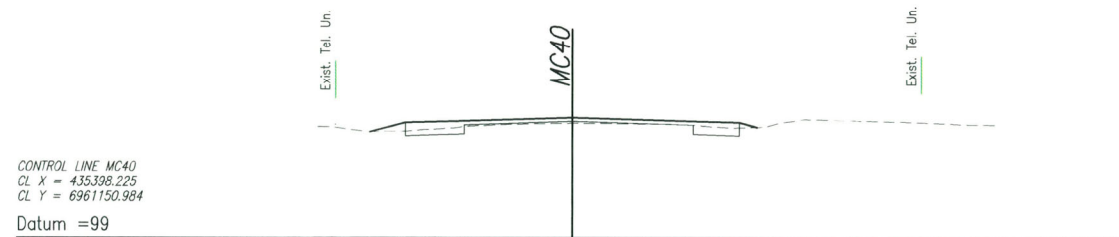
PAVEMENT DESIGN COMPLETED BY TMR.  
DESIGN LIFE = 20 YEARS  
DESIGN TRAFFIC = 3,10x10<sup>6</sup> ESA'S  
DESIGN SUBGRADE CBR = 15 SOAKED

**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

G F E D C B A	Associated Job Nos	Survey Data	Scales A 0 5 10 15 20m B 0 1.0 2.0m	LOCKYER VALLEY REGIONAL COUNCIL		SITE 4 - WIDENING AND OVERLAY		Queensland Government
		Datum GDA94		GATTON-ESK ROAD		GENERAL ARRANGEMENT		
	Auxiliary Drg Nos	Horiz. Grid MGA94		CTL CHGE 9650 - 9978		ENGINEERING CERTIFICATION (RPEQ)		Job No. 239/4144/2
		Height Origin AHD DERIVED		Reference Points		B.DAETH		Contract No. DDWD-88
		Survey Books MR100057	Dimensions shown in metres except where shown otherwise	Preceding RP 2	Dist. to start of job (km) 1.33	From start to end of job 0.33	From end to Following RP 7.79	Drawing No. 650942 1A
				Following RP 4				Series Number of
	Revisions/Descriptions	Certification	Date	Through Chainage from INTERSECTION 18A/4144, 9.7km - 10km		N.WILSON		MRR Detail (02/14)

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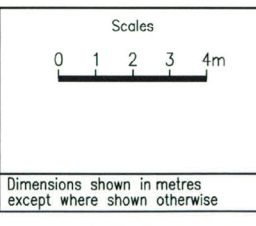
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CHAINAGE 9710.000

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A	Issued For Construction			
Revisions/Descriptions		Certification	Date	Microfiled
				MF 04.16A

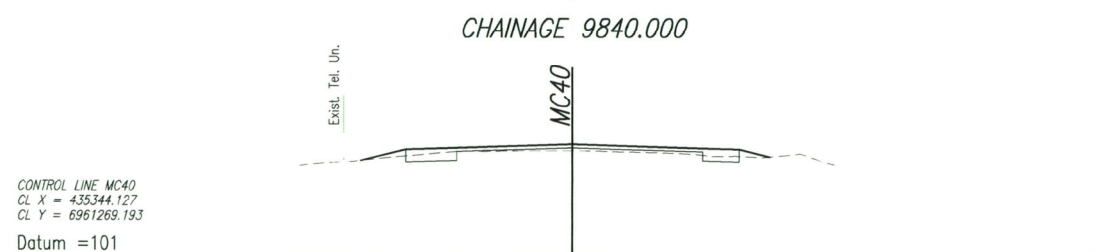
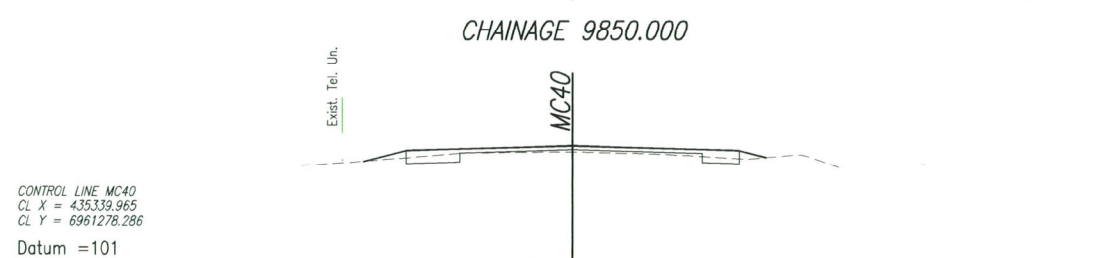
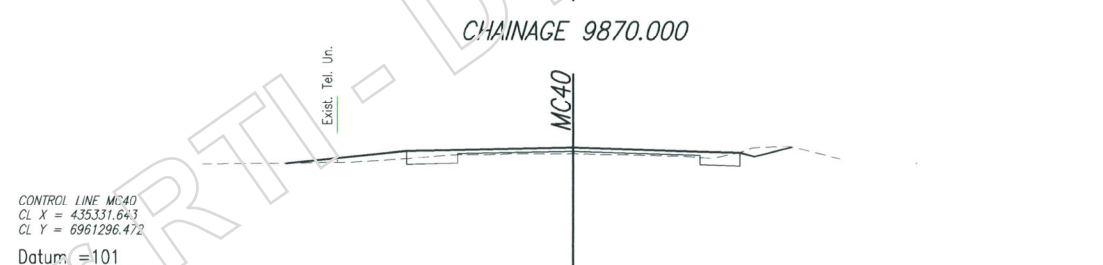
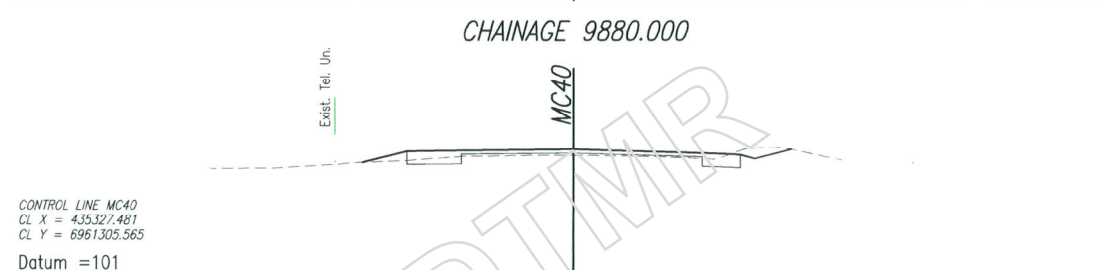
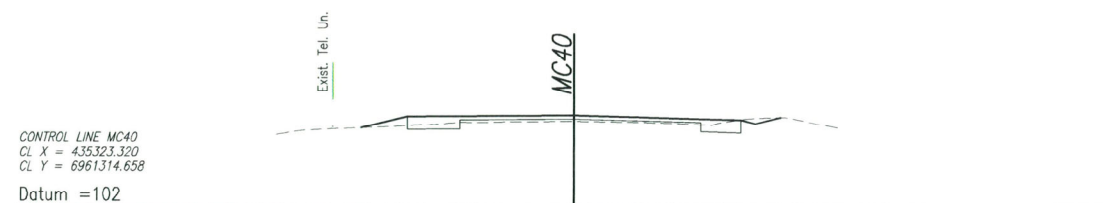
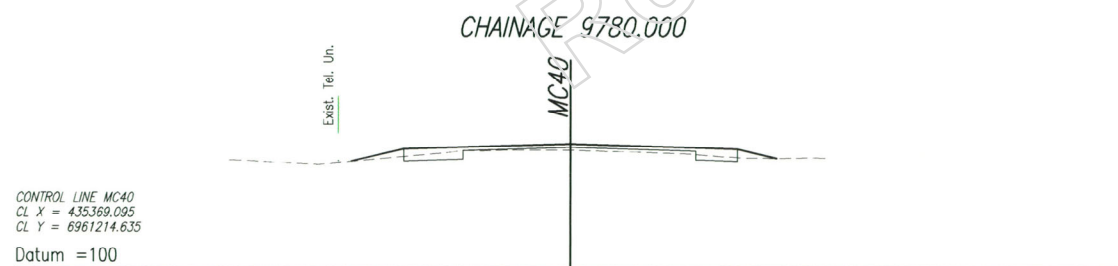
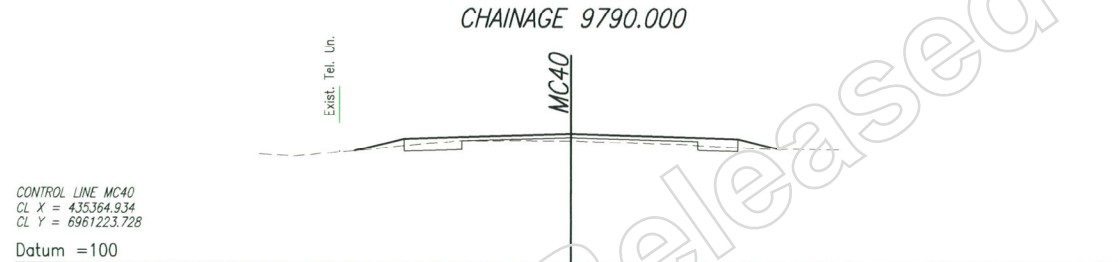
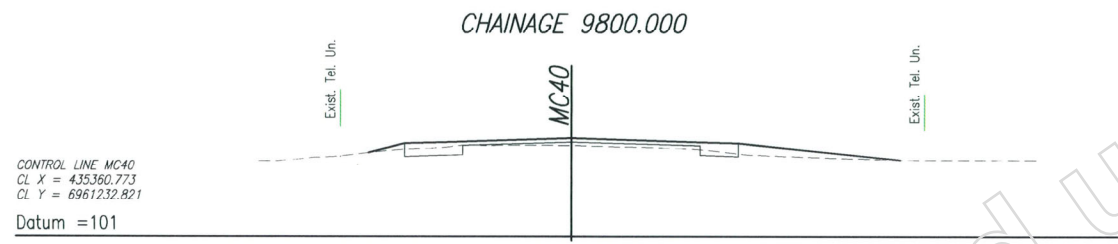
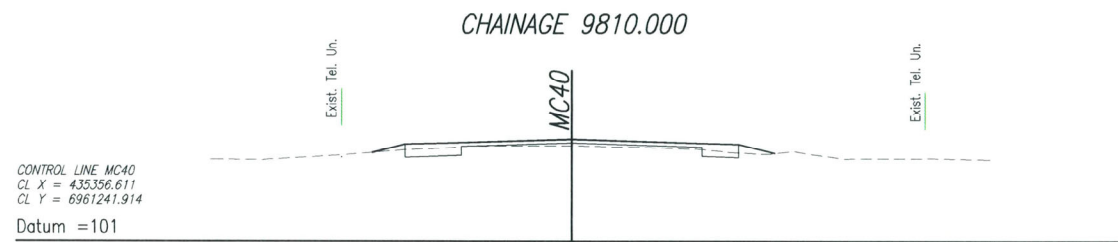
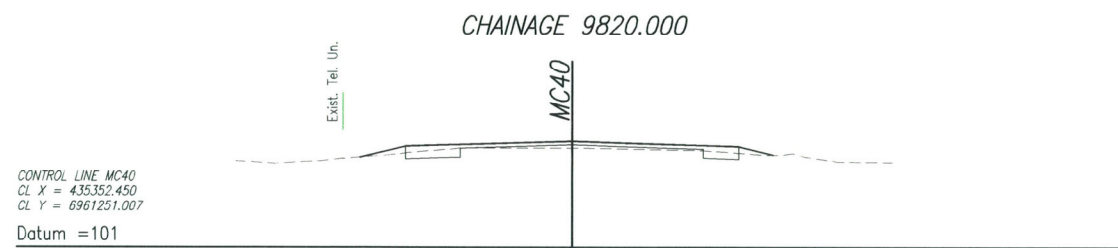
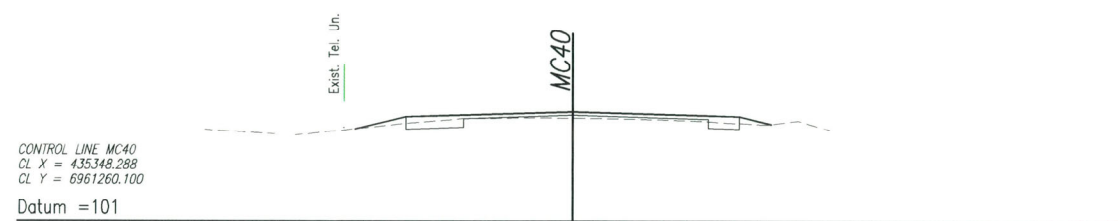
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	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
Survey Books	MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 9650 - 9978				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	1.33	0.33	7.79	4
Through Chainage from INTERSECTION 18A/4144, 9.7km - 10km				

SITE 4 - WIDENING AND OVERLAY	
CROSS SECTIONS - CONTROL LINE MC40	
SHEET 1 OF 3	
Drawn	ENGINEERING CERTIFICATION (RPEQ)
B. DAUTH	ENG. AREA NAME
Designed	CIVIL M. WRIGHT
N. WILSON	NR
NO.	DATE
8411	1/3/16

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650943 1A
Series Number	of
MRR Detail (02/14)	



Last Modified: 24-Feb-2016 2:56pm XREFS: - XC\_MC40\_2.dwg

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A	Issued For Construction				
Revisions/Descriptions		Certification	Date		

Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057

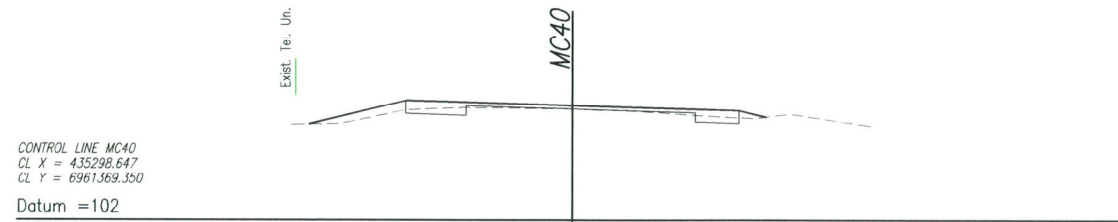
Scales

Dimensions shown in metres except where shown otherwise

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 9650 - 9978				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	1.33	0.33	7.78	4
Through Chainage from INTERSECTION 18A/4144, 9.7km - 10km				

SITE 4 - WIDENING AND OVERLAY			
CROSS SECTIONS - CONTROL LINE MC40			
SHEET 2 OF 3			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B. DAUTH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M. WRIGHT	NR
N. WILSON			
	NO.	DATE	
		8/11/16	

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650944 1A
Series Number	of
MRR Detail (02/14)	



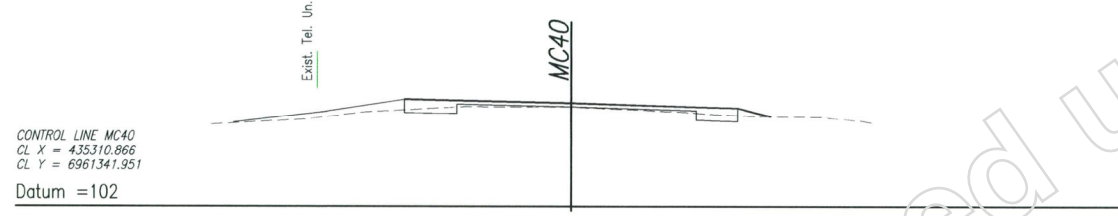
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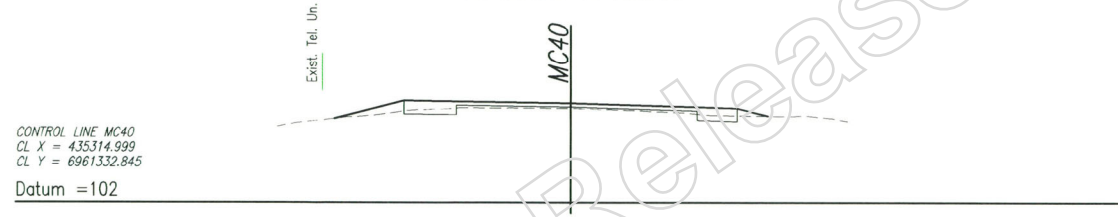
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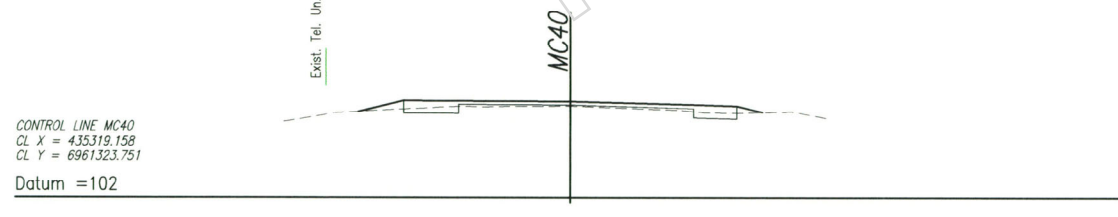
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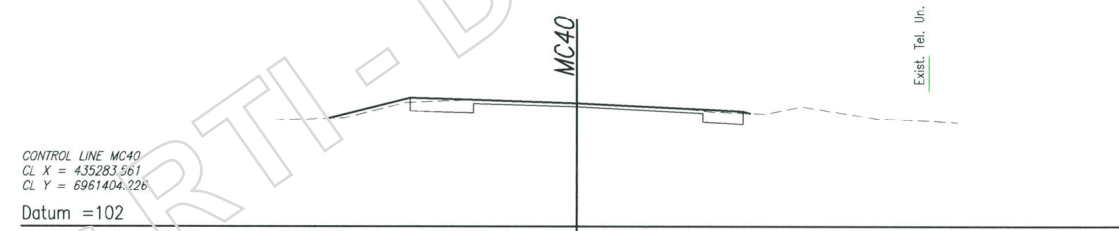
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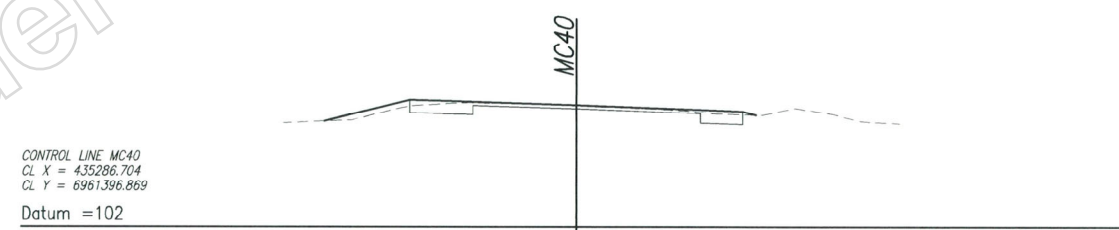
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CHAINAGE 9890.000



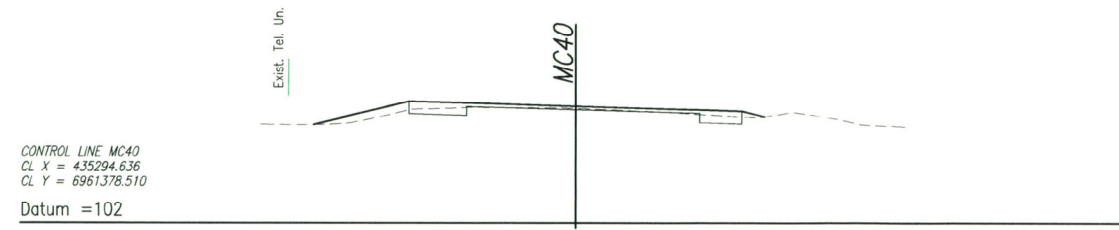
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CHAINAGE 9970.000



CHAINAGE 9960.000

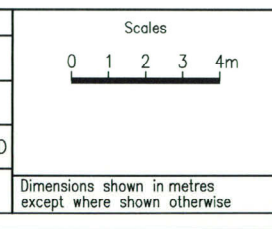


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A	Issued For Construction				
Revisions/Descriptions		Certification	Date	Microfiled	

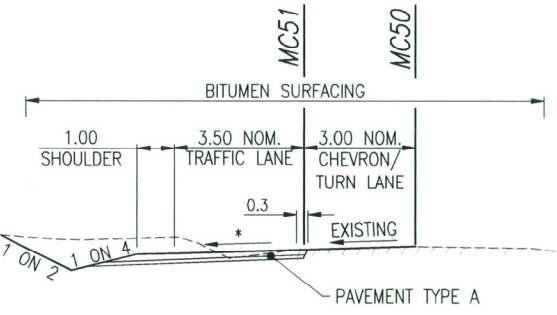
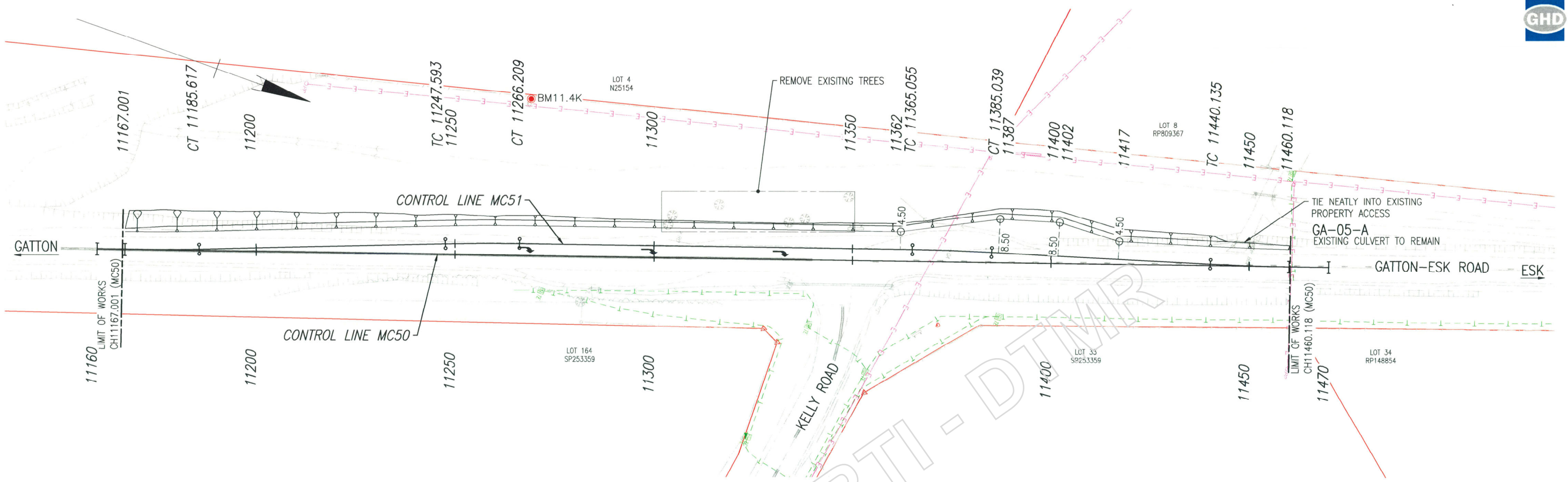
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Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057



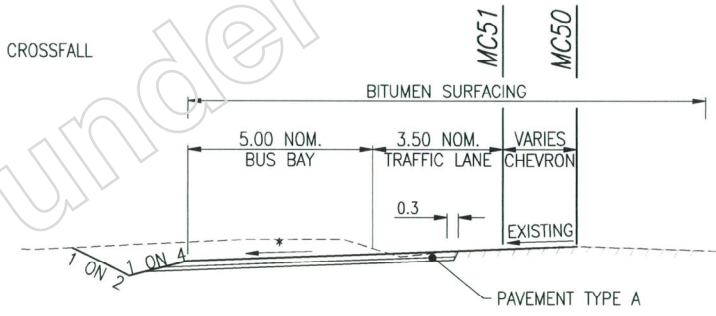
LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 9650 - 9978				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	1.33	0.33	7.79	4
Through Chainage from INTERSECTION 18A/4144, 9.7km - 10km				

SITE 4 - WIDENING AND OVERLAY		CROSS SECTIONS - CONTROL LINE MC40	
SHEET 3 OF 3			
Drawn	B. DAUTH	ENGINEERING CERTIFICATION (RPEQ)	
Designed	N. WILSON	ENG. AREA	CIVIL
		NAME	M. WRIGHT
		SIGNATURE	NR
		NO.	8411/13/16
		DATE	

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650945 1A
Series Number	of
MRR_Detail (02/14)	



TYPICAL CROSS SECTION A  
CONTROL LINE MC50  
CH 11167 - 11362  
CH 11417 - 11460.118  
SCALE B



TYPICAL CROSS SECTION B  
CONTROL LINE MC50  
CH 11362 - 11417  
SCALE B

LEGEND  
25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

PAVEMENT TYPE A

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
  - 150mm TYPE 2.1 UNBOUND BASE
  - 100mm TYPE 2.3 UNBOUND SUBBASE 1
  - 60mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)
- NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

CAUTION

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LAISING WITH THE RELEVANT AUTHORITY PRIOR.

PAVEMENT DESIGN PARAMETERS	
PAVEMENT DESIGN COMPLETED BY TMR.	
DESIGN LIFE = 20 YEARS	
DESIGN TRAFFIC = 3.10x10 <sup>6</sup> ESA'S	
DESIGN SUBGRADE CBR = 15 SOAKED	

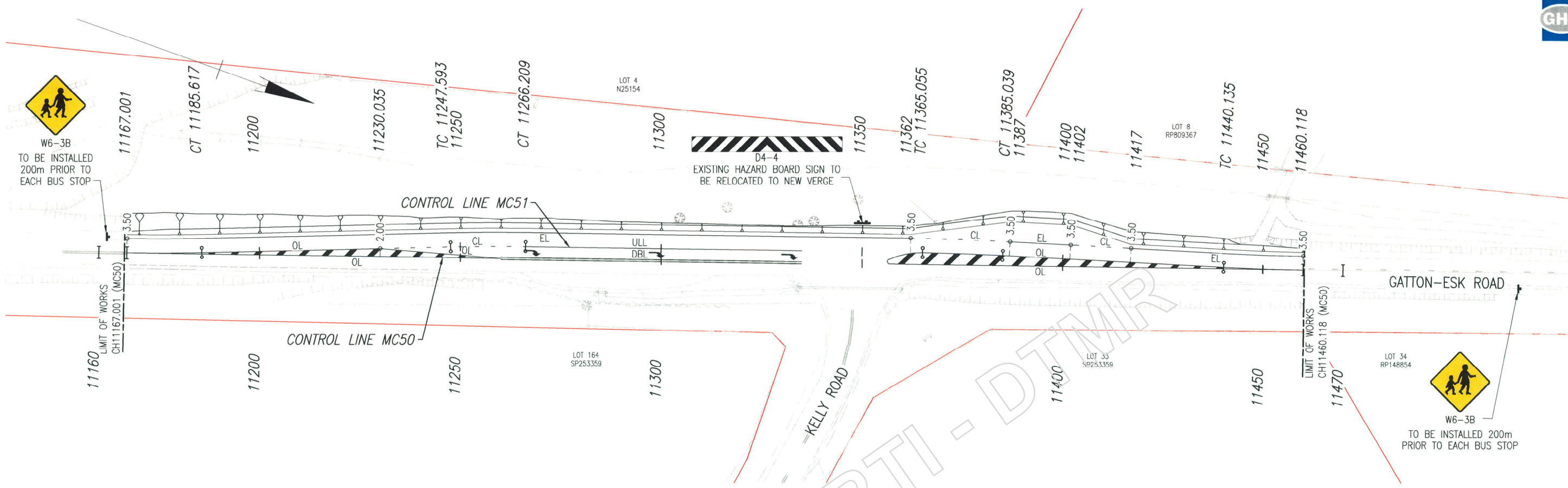
SURVEY MARKS					
POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
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BM12K	434678.482	6963234.424	123.768	0.99962659	S/PIC
TBM11.8K	434718.145	6963034.538	120.688	0.99962701	S/PIC

CONTROL LINE MC50					
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
START	11160	434894.477	6962528.747	111.066	341°12'47.83"
END	11470	434794.642	6962822.232	117.859	341°12'47.83"

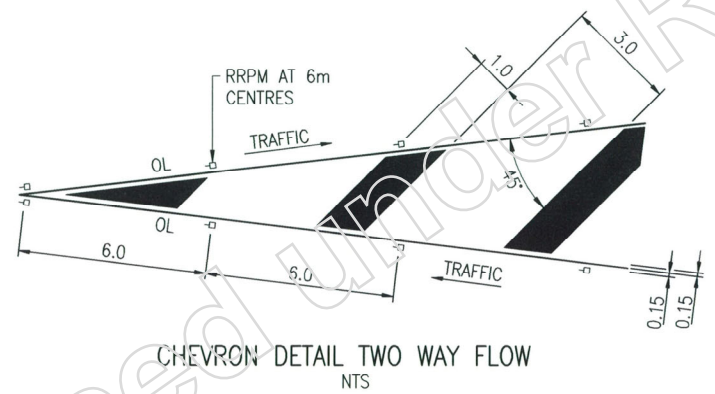
CONTROL LINE MC51							
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	11167.001	434892.222	6962535.376	111.215	341°12'47.83"		
IP2		434889.224	6962544.189			-500	18.616
CT	11185.617	434885.9	6962552.884	111.614	339°04'48.16"		
TC	11247.593	434863.771	6962610.775	112.989	339°04'48.16"		
IP3		434860.447	6962619.47			500	18.616
CT	11266.209	434857.449	6962628.283	113.422	341°12'47.83"		
TC	11365.055	434825.616	6962721.863	115.658	341°12'47.83"		
IP4		434822.398	6962731.324			500	19.983
CT	11385.039	434819.56	6962740.905	116.123	343°30'11.56"		
TC	11440.135	434803.915	6962793.734	117.312	343°30'11.56"		
IP5		434801.077	6962803.315			-500	19.983
END	11460.118	434797.859	6962812.776	117.693	341°12'47.83"		

Last Modified: 15-Feb-2016 10:25:59pm XREFS: X:\S:\eng\X\DRGA\eng\X\DOTL.dwg X:\S:\eng\X\DRGA\eng\X\DOTL.dwg

Associated Job Nos		Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL			SITE 5 - KELLY ROAD						
Datum: GDA94		Horiz. Grid: MGA94		A 0 5 10 15 20m		GATTON-ESK ROAD			GENERAL ARRANGEMENT						
Auxiliary Drg Nos		Height Origin: AHD DERIVED		B 0 1 2 3 4m		CTL CHGE 11167 - 11460.118			Drawn: B.DAETH			Job No. 239/4144/2			
Survey Books: MR100057		Dimensions shown in metres except where shown otherwise		Reference Points			Preceding RP: 2, Dist. to start of job (km): 2.85			ENGINEERING CERTIFICATION (RPEQ)			Contract No. DDWD-88		
					From start to end of job: 0.29			From end to Following RP: 6.30			NAME: CIVIL M.WRIGHT			Drawing No. 650946 1A	
					Following RP: 4			Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km			NO. 8411/15/14			Series Number of	
Revisions/Descriptions		Certification		Date		Microfiled								MRR Detail (02/14)	



- LEGEND**
- ULL UNBROKEN LANE LINE (RRPM'S @ 12m CRS) (WB)
  - DBL DOUBLE BARRIER LINE (WB)
  - EL EDGE LINE (RRPM'S @ 12m CRS) (WB)
  - CL CONTINUITY LINE (WB)
  - OL OUTLINE MARKING (WB)
  - NEW SIGN/SIGN TO BE RELOCATED
  - EXISTING SIGN TO REMAIN
  - 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET



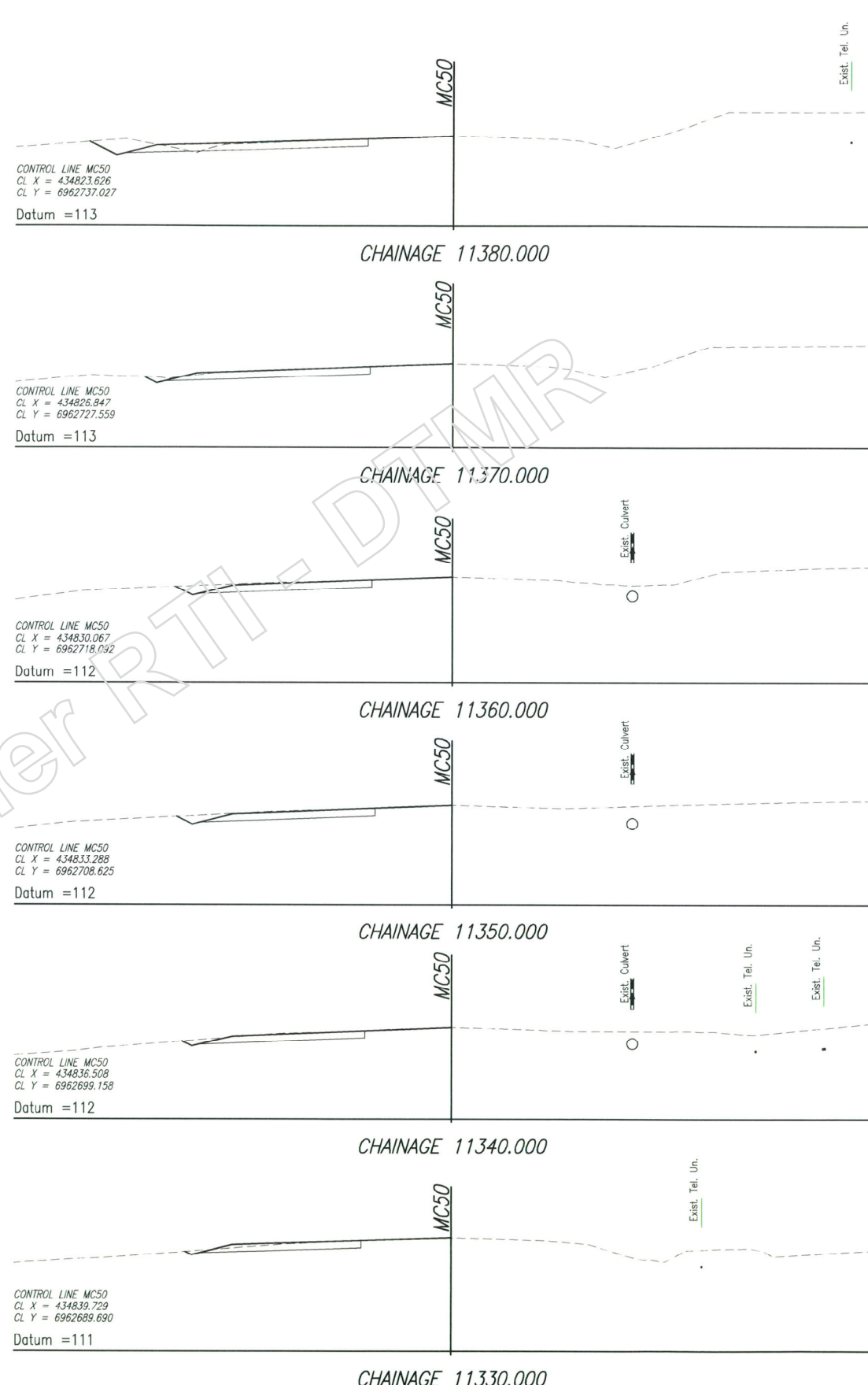
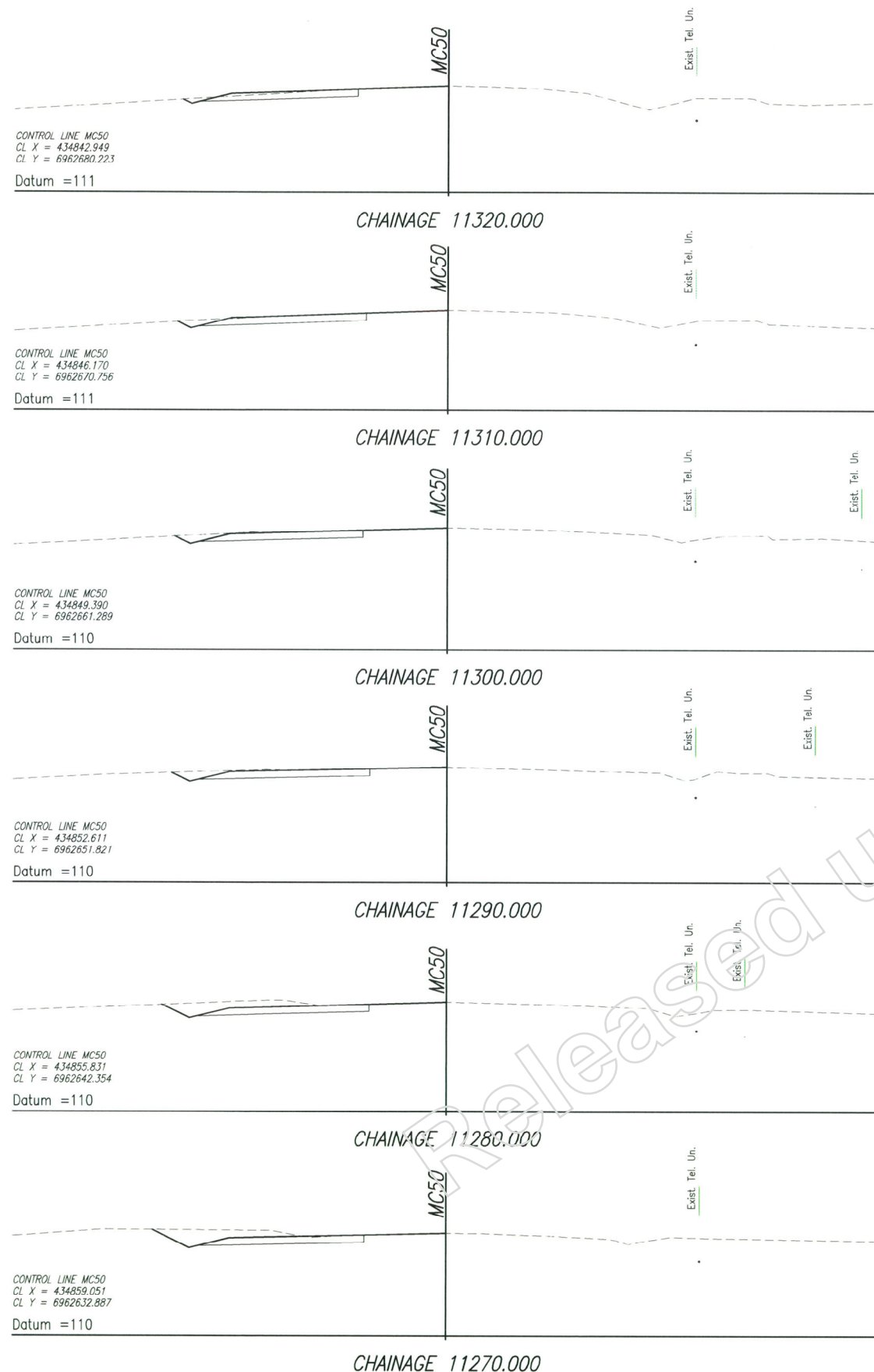
- NOTES**
1. ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  2. EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  3. ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  4. UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  5. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  6. RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  7. TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  8. GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

Last Modified: 24 Feb 2016 2:55pm XREFS: X:S.dwg; X:DRGA.dwg; X:DCTL.dwg

G F E D C B A		Associated Job Nos	Survey Data	Scales  0 5 10 15 20m  Dimensions shown in metres except where shown otherwise	LOCKYER VALLEY REGIONAL COUNCIL					SITE 5 - KELLY ROAD							
			Datum		GDA94	GATTON-ESK ROAD					LINEMARKING AND SIGNAGE						
			Auxiliary Drg Nos		Horiz. Grid	MGA94	CTL CHGE 11167 - 11460.118					ENGINEERING CERTIFICATION (RPEQ)					
					Height Origin	AHD DERIVED	Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn	ENG. AREA	NAME		SIGNATURE	NO.
			Survey Books	MR100057	2	2.85	0.29	6.30	4	B.DAULTH	CIVIL	M.WRIGHT	NR	8411	1/2/16	Contract No.	DDWD-88
					Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km											Drawing No.	650947 1A
																Series Number	of
																	MRR_Detail (02/14)

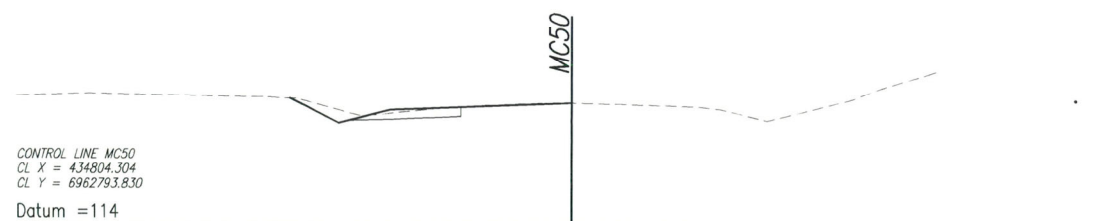






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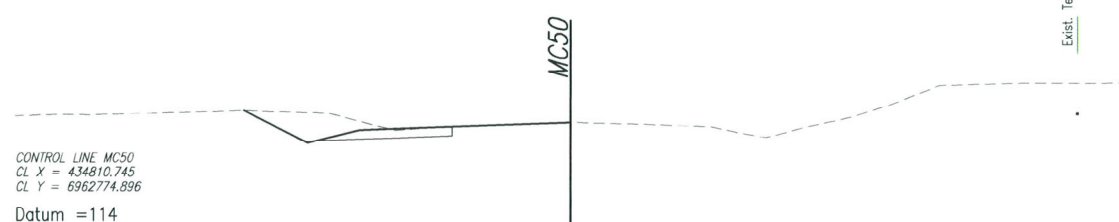
G		Associated Job Nos		Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL				SITE 5 - KELLY ROAD																											
F				Datum GDA94		0 1 2 3 4m		GATTON-ESK ROAD				CROSS SECTIONS - CONTROL LINE MC50																											
E		Auxiliary Drg Nos		Horiz. Grid MGA94				CTL CHGE 11167 - 11460.118				SHEET 2 OF 3																											
D				Height Origin AHD DERIVED				Reference Points				ENGINEERING CERTIFICATION (RPEQ)																											
C				Survey Books MR100057		Dimensions shown in metres except where shown otherwise		<table border="1"> <tr> <th>Preceding RP</th> <th>Dist. to start of job (km)</th> <th>From start to end of job</th> <th>From end to Following RP</th> <th>Following RP</th> </tr> <tr> <td>2</td> <td>2.85</td> <td>0.29</td> <td>6.30</td> <td>4</td> </tr> </table>				Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	2	2.85	0.29	6.30	4	<table border="1"> <tr> <th>Drawn</th> <th>ENG. AREA</th> <th>NAME</th> <th>SIGNATURE</th> <th>NO.</th> <th>DATE</th> </tr> <tr> <td>B. DAUTH</td> <td>CIVIL</td> <td>M. WRIGHT</td> <td>NR</td> <td>8411</td> <td>1/3/16</td> </tr> </table>				Drawn	ENG. AREA	NAME	SIGNATURE	NO.	DATE	B. DAUTH	CIVIL	M. WRIGHT	NR	8411	1/3/16	Job No. 239/4144/2	
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP																																			
2	2.85	0.29	6.30	4																																			
Drawn	ENG. AREA	NAME	SIGNATURE	NO.	DATE																																		
B. DAUTH	CIVIL	M. WRIGHT	NR	8411	1/3/16																																		
B								Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km				Contract No. DDWD-88																											
A		Issued For Construction										Drawing No. 650949 1A																											
		Revisions/Descriptions		Certification		Date						Series Number of MRR_Detail (02/14)																											



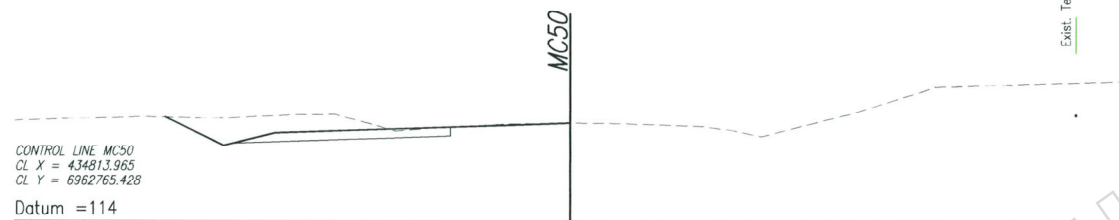
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CHAINAGE 11430.000



CHAINAGE 11420.000



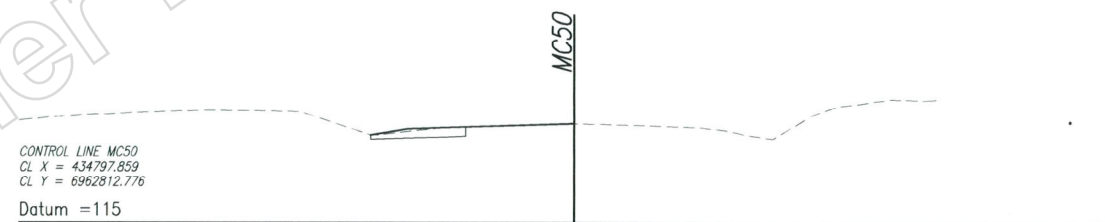
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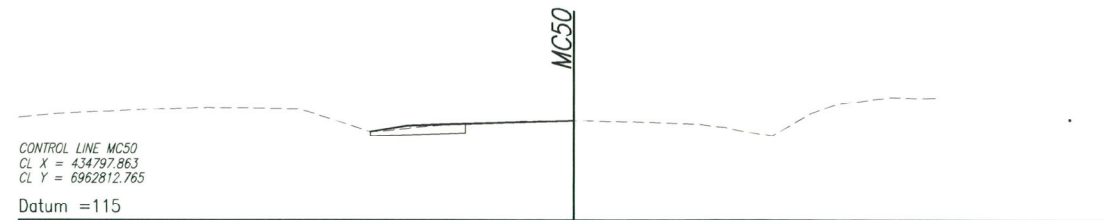
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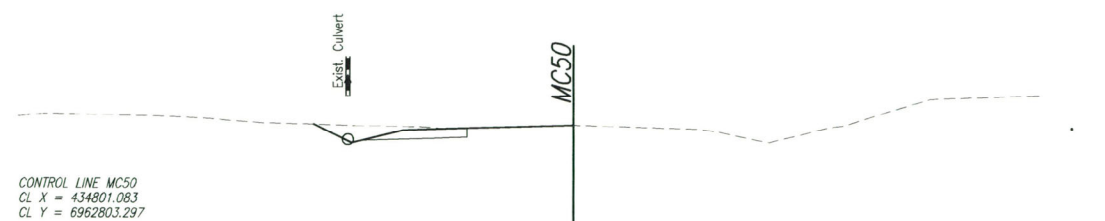
CHAINAGE 11390.000



CHAINAGE 11460.012



CHAINAGE 11460.000



CHAINAGE 11450.000

Last Modified :- Feb 24, 2016 - 3:00pm XREFS :- XC\_MC50\_3.dwg

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A	Issued For Construction				
Revisions/Descriptions		Certification	Date	Microfiled	

Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
Survey Books	MR100057

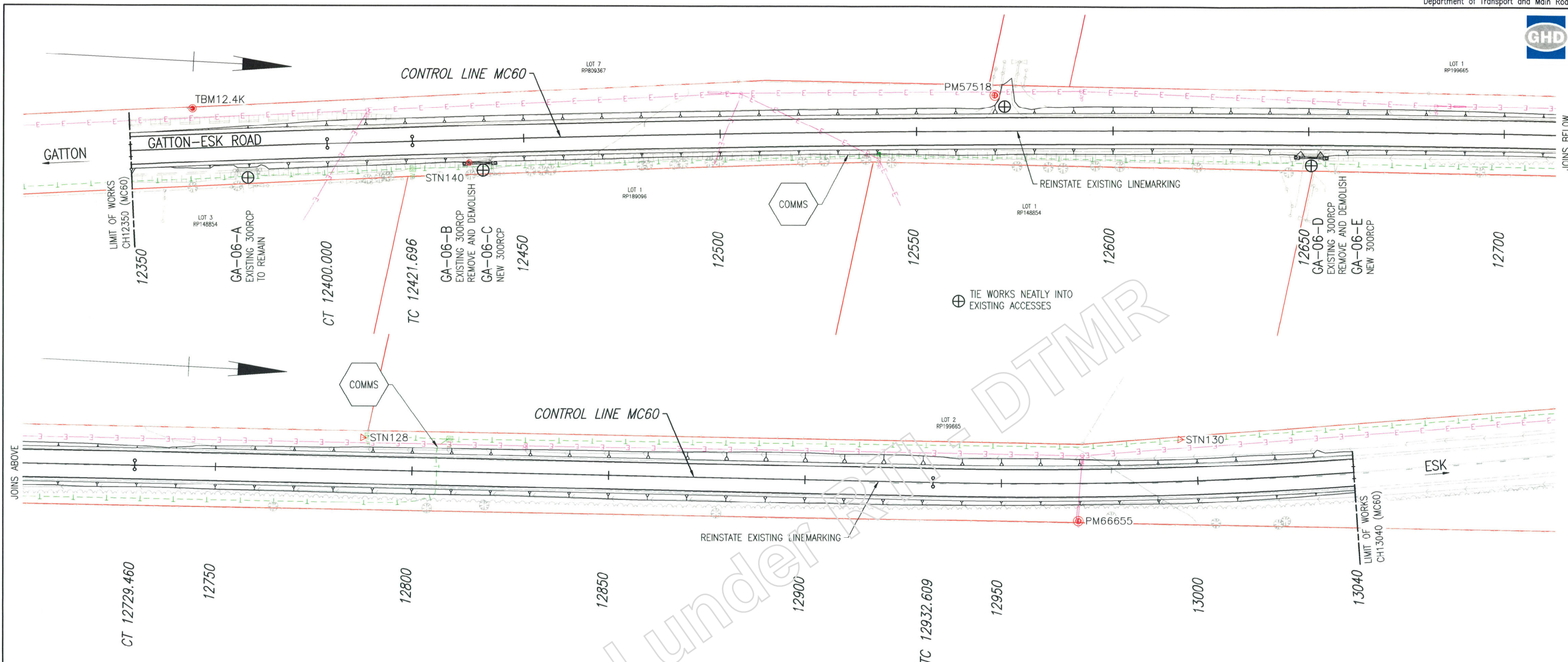
Scales

Dimensions shown in metres except where shown otherwise

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 11167 - 11460.118				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	2.85	0.29	6.30	4
Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km				

SITE 5 - KELLY ROAD		CROSS SECTIONS - CONTROL LINE MC50		SHEET 3 OF 3	
Drawn	B.DAUTH	ENGINEERING CERTIFICATION (RPEQ)			
Designed	N.WILSON	ENG. AREA	NAME	SIGNATURE	
		CIVIL	M.WRIGHT		
				NO.	DATE
				8411	1/3/16

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650950 A
Series Number	of
MRR_Detail (02/14)	

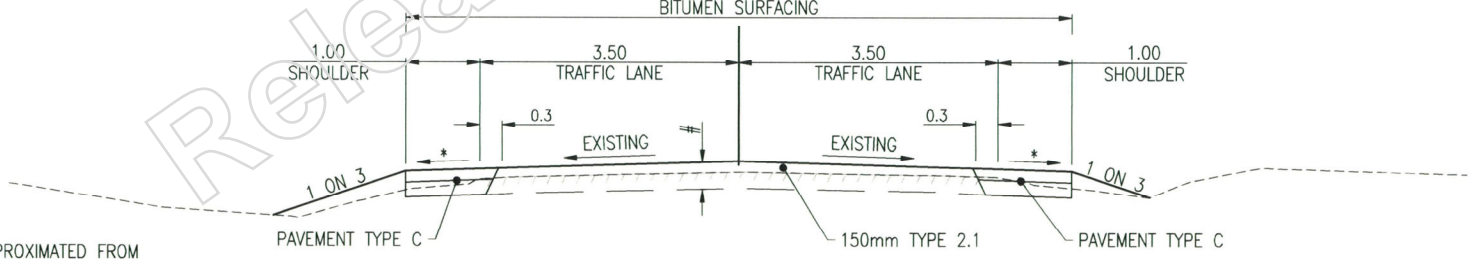


**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

- PAVEMENT TYPE C**
- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (FULL WIDTH)
  - 150mm TYPE 2.1 UNBOUND BASE
  - 170mm TYPE 2.3 UNBOUND SUBBASE 1

**CAUTION**  
 THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

\*EXTEND EXISTING CROSSFALL  
 #TOP 250mm TO BE MECHANICALLY STABILISED



TYPICAL CROSS SECTION  
 CONTROL LINE MC60  
 CH 12350 - 13040  
 SCALE B

**SURVEY MARKS**

PT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
TBM12.4K	434638.757	6963628.948	128.251	0.99962595	S/PIC
STN140	434348.327	6965218.266	-	0.99962311	S/PIC
PM57518	434624.692	6963832.602	129.294	0.99962581	STANDARD
STN128	434616.649	6964050.005	-	0.99962552	PEG
PM66655	434628.582	6964233.005	135.120	0.99962488	S/PIC
STN130	434606.257	6964257.737	-	0.99962485	PEG

**CONTROL LINE MC60**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	12350	434650.43	6963613.842	127.985	354°30'37.88"		
IP2		434648.039	6963638.728			3675.486	50
CT	12400	434645.986	6963663.644	128.594	355°17'23.84"		
TC	12421.696	434644.205	6963685.266	128.817	355°17'23.84"		
IP3		434631.566	6963838.662			6000	307.764
CT	12729.46	434626.809	6963992.504	130.404	358°13'43.99"		
TC	12932.609	434620.53	6964195.557	134.243	358°13'43.99"		
IP4		434618.87	6964249.263			-1200	107.391
END	13040	434612.416	6964302.605	136.446	353°06'04.91"		

Last Modified: 16 Feb 24, 2016 - 3:00pm XREFS: X:\S.dwg; X:\DCTL.dwg; X:\DROA.dwg

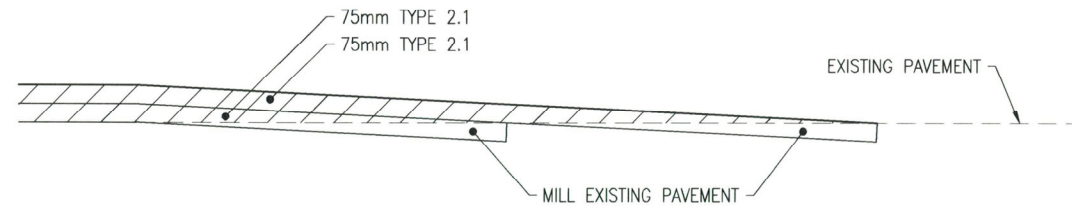
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A	Issued For Construction	MF	04.16.A
Revisions/Descriptions		Certification	Date
CAD FILES			

Associated Job Nos	Survey Data
	Datum: GDA94
Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057
Dimensions shown in metres except where shown otherwise	

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY		GENERAL ARRANGEMENT	
Drawn	B. DAUTH	ENGINEERING CERTIFICATION (RPEQ)	
Designed	N. WILSON	ENG. AREA	CIVIL
		NAME	M. WAIGHT
		SIGNATURE	NR
		NO.	8411/13/16
		DATE	1/3/16

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650951 1A
Series Number	of
MRR Detail (02/14)	



RAMPED PAVEMENT JOINT DETAIL  
 CH 12350 - 12383.7  
 CH 13009.3 - 13040  
 N.T.S

**GA-06-E**  
 300 RCP (6.1m) R OF CH12560.7  
 UNDER PRIVATE ACCESS  
 INLET 6.5m R OF CH12563.7 HT129.356  
 OUTLET 6.6m R OF CH12557.6 HT129.272  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.1m<sup>3</sup>

**GA-06-D**  
 EXISTING 300 RCP  
 REMOVE AND DEMOLISH

**GA-06-C**  
 300 RCP (6.1m) R OF CH12438.7  
 UNDER PRIVATE ACCESS  
 INLET 6.1m R OF CH12441.9 HT128.55  
 OUTLET 6.1m R OF CH12435.7 HT128.329  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.1m<sup>3</sup>

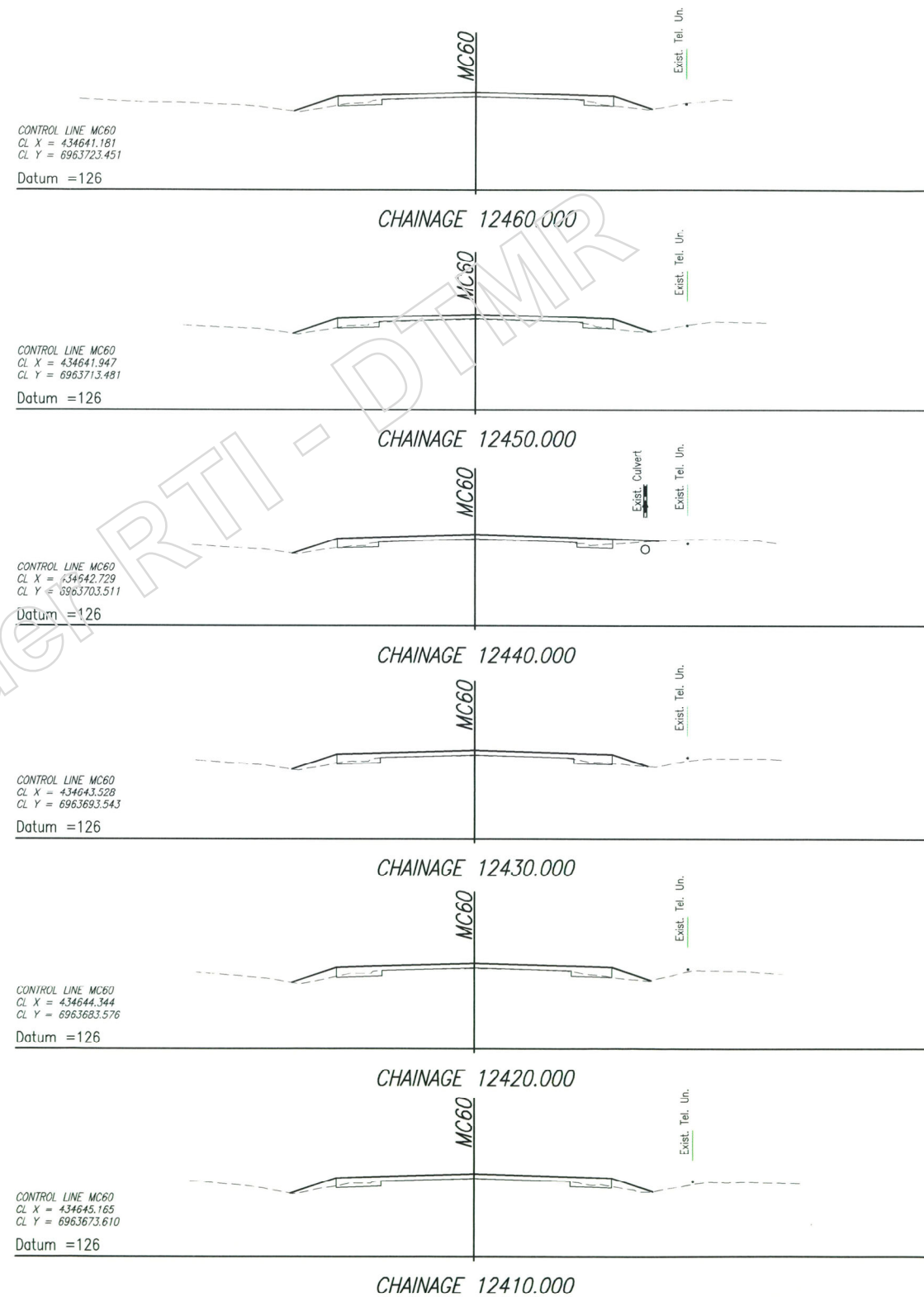
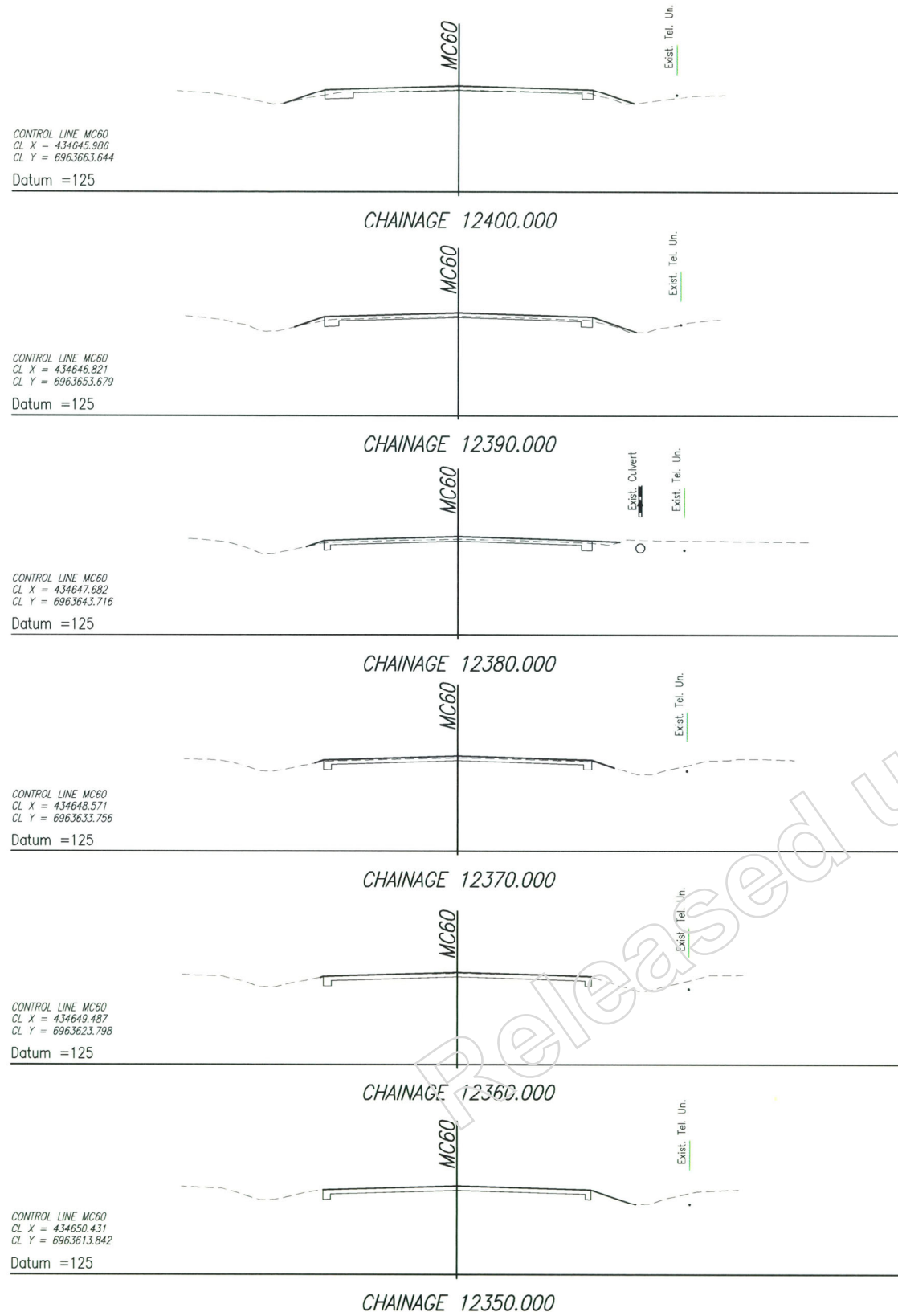
**GA-06-B**  
 EXISTING 300RCP  
 REMOVE AND DEMOLISH

**GA-06-A**  
 EXISTING 300RCP  
 TO REMAIN

Released under RTI - DTMR

Last Modified: 24 Feb 2016 3:00pm XREFS: X\_S.dwg; X\_DCTL.dwg; X\_DROA.dwg

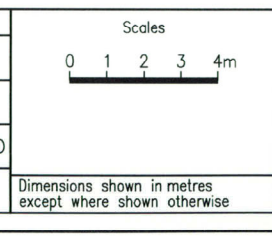
G F E D C B A	Associated Job Nos	Survey Data	Scales	LOCKYER VALLEY REGIONAL COUNCIL					SITE 6 - WIDENING AND OVERLAY								
		Datum: GDA94		GATTON-ESK ROAD					GENERAL DETAILS								
	Auxiliary Drg Nos	Horiz. Grid: MGA94		CTL CHGE 12350 - 13040					Job No. 239/4144/2 Contract No. DDWD-88								
		Height Origin: AHD DERIVED		Reference Points					Drawing No. 650952 1A Series Number of								
Revisions/Descriptions	Certification	Date	Survey Books	Dimensions shown in metres except where shown otherwise	Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP	Drawn	ENG. AREA	NAME	SIGNATURE	NO.	DATE	Contract No.	DDWD-88
			MR100057		2	4.03	0.69	4.73	4	R.DAULTH	CIVIL	M.WRIGHT	NR	841	1/3/16	650952 1A	
CAD FILES				Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km					N.WILSON				MRR_Detail (02/14)				



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A	Issued For Construction				
Revisions/Descriptions		Certification	Date		

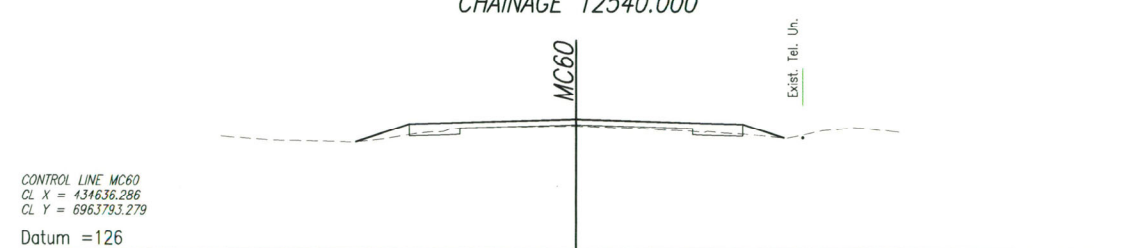
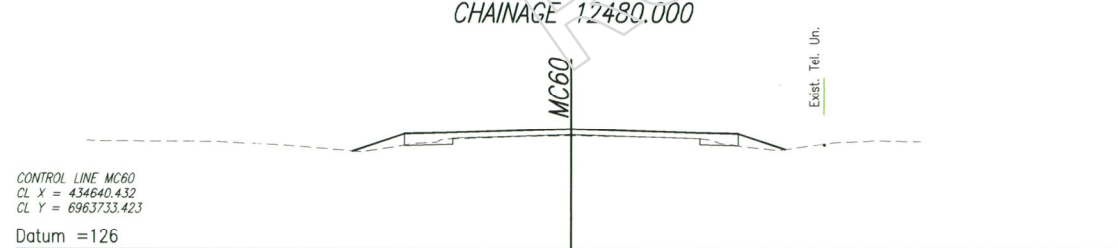
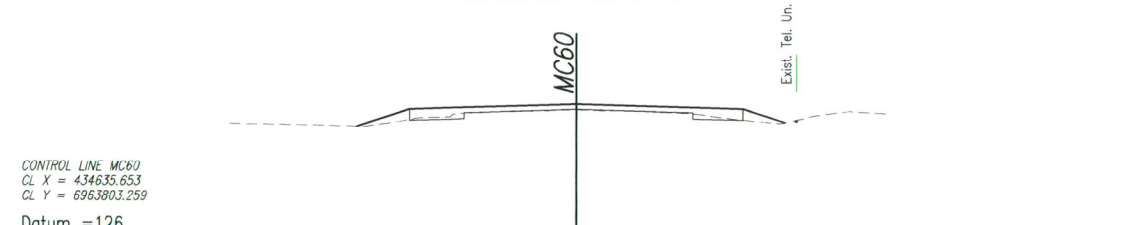
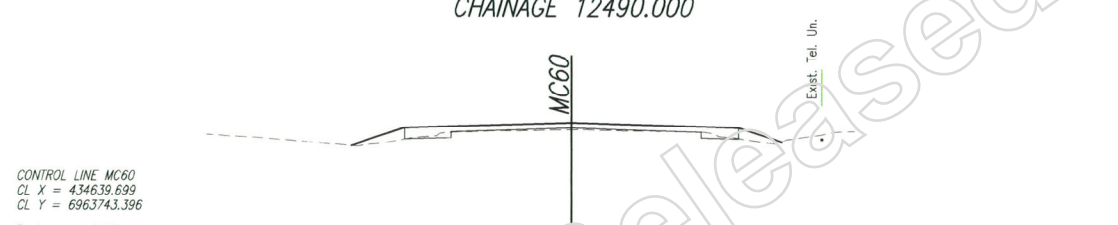
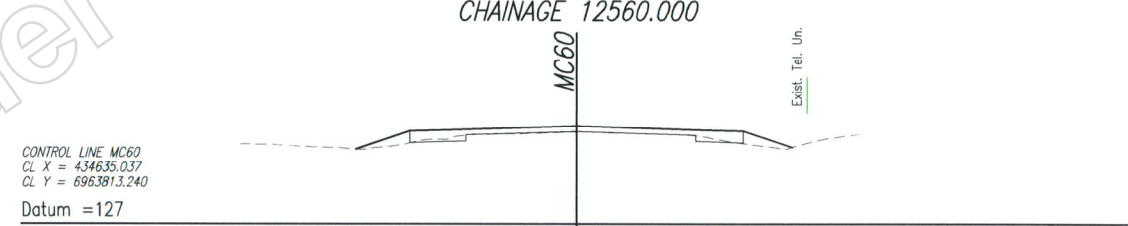
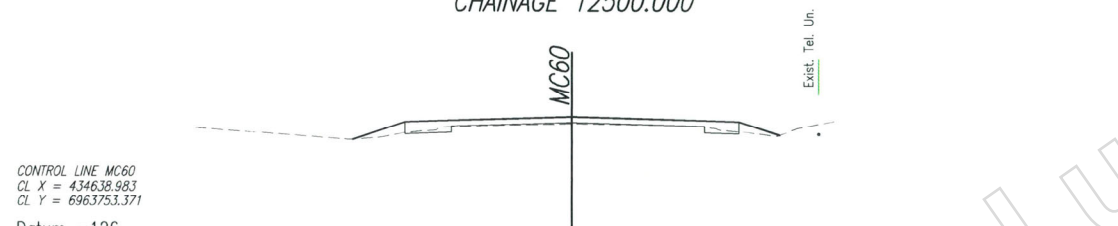
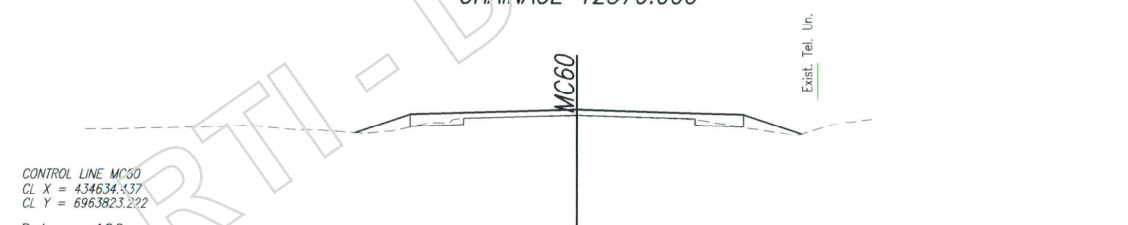
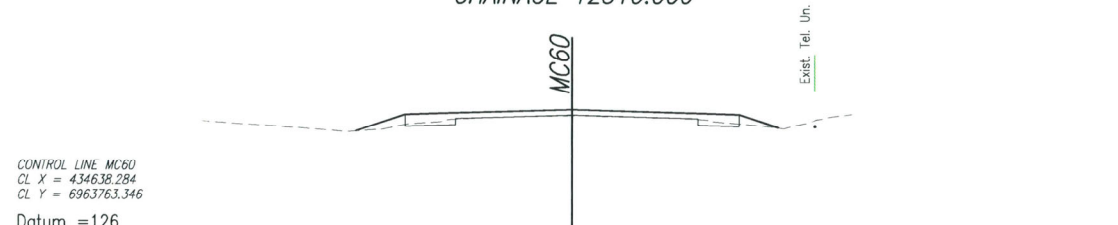
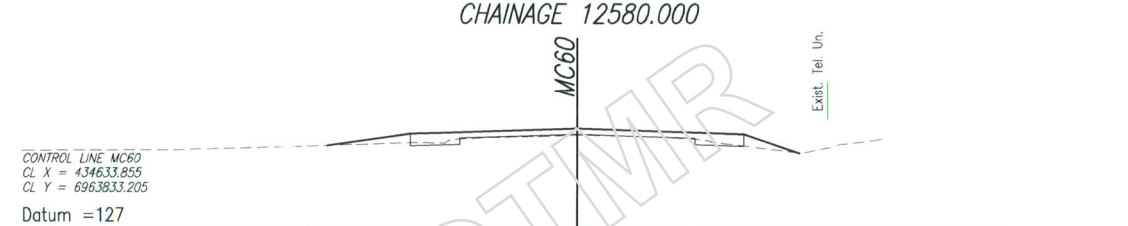
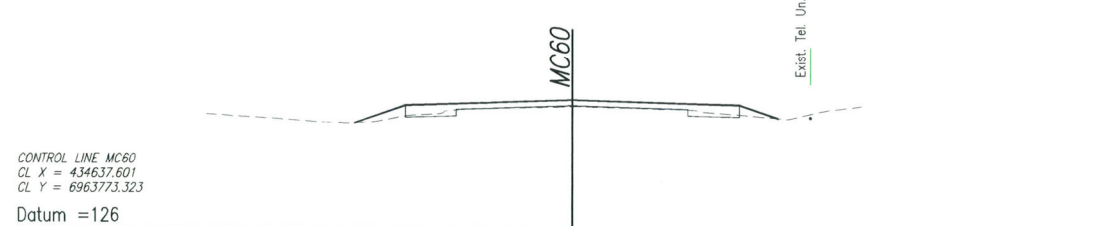
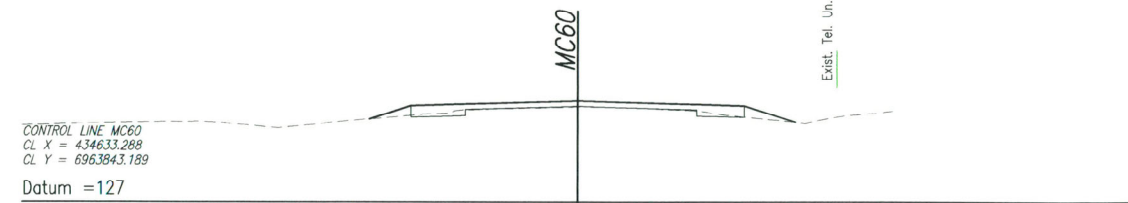
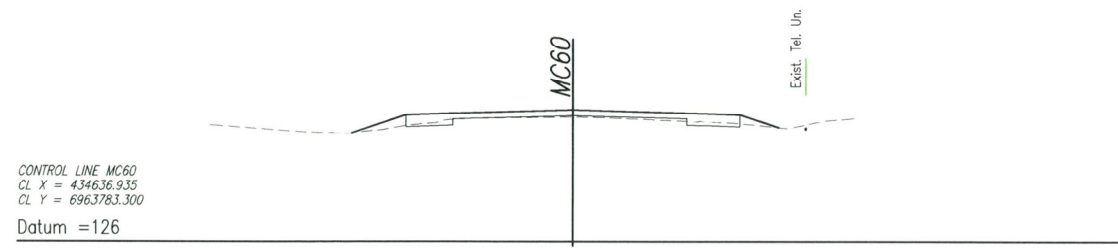
Associated Job Nos	Survey Data
	Datum GDA94
Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY		CROSS SECTIONS - CONTROL LINE MC60		SHEET 1 OF 6	
Drawn	B.DAETH	ENGINEERING CERTIFICATION (RPEQ)			
Designed	N.WILSON	ENG. AREA	NAME	SIGNATURE	
		CIVIL	M. WRIGHT	NR	
		NO.	DATE		
		8411	1/3/16		

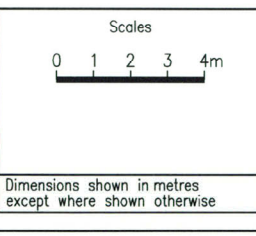
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Contract No.	DDWD-88
Drawing No.	650953 IA
Series Number	of
MRR_Detail (02/14)	



Last Modified: 24 Feb 2016 3:00pm XREFS: - XC\_MC60\_2.dwg

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A	Issued For Construction			
Revisions/Descriptions		Certification	Date	Microfiled

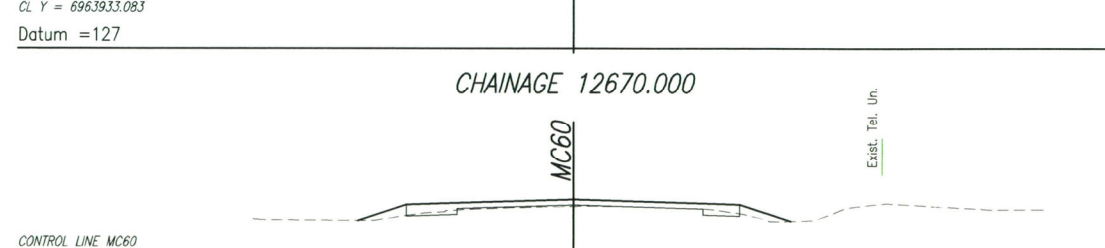
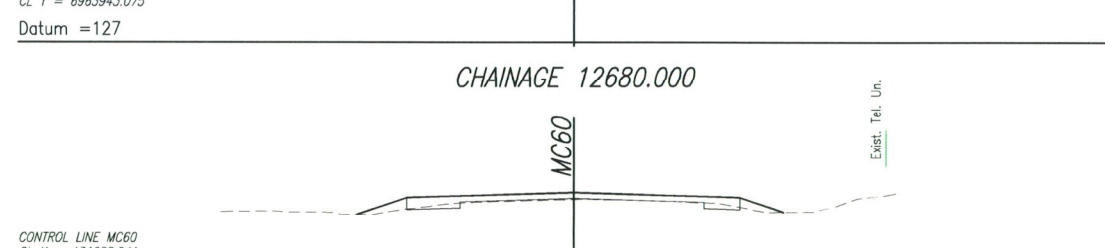
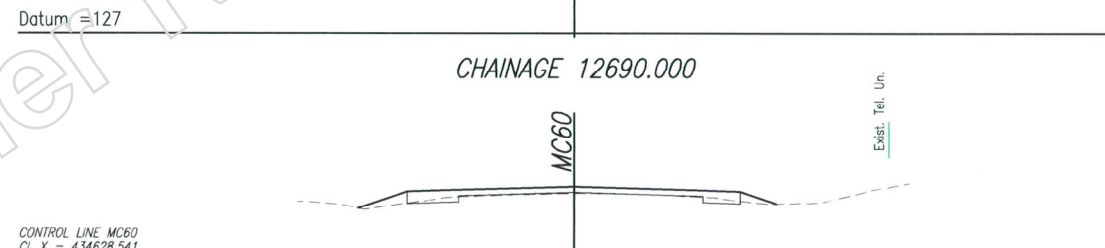
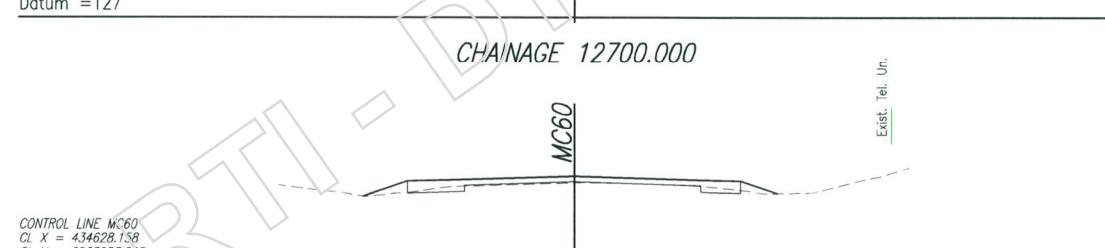
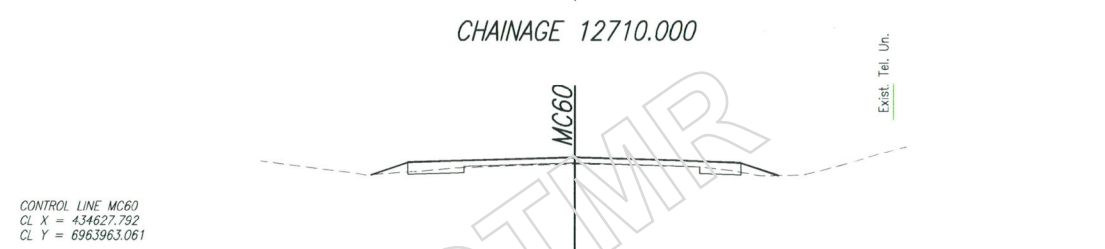
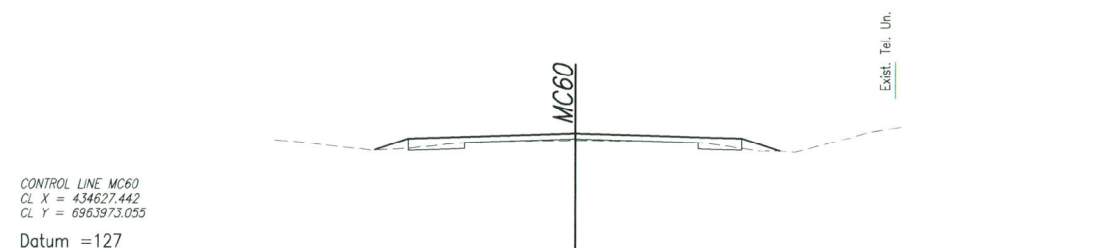
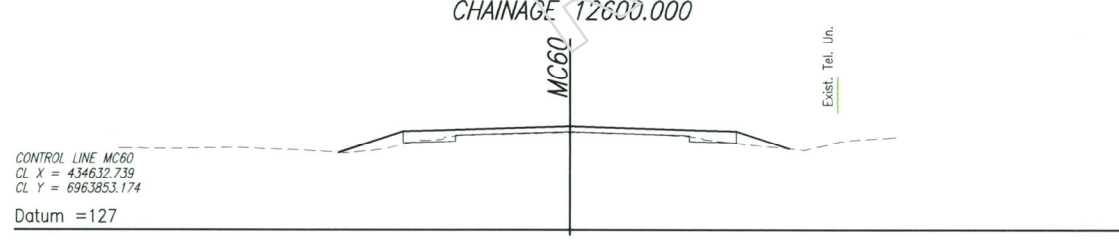
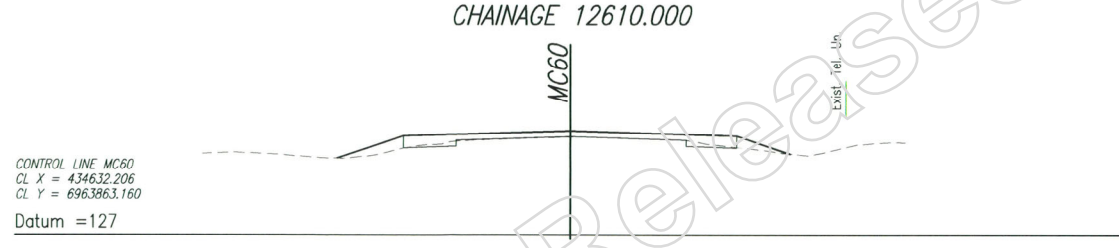
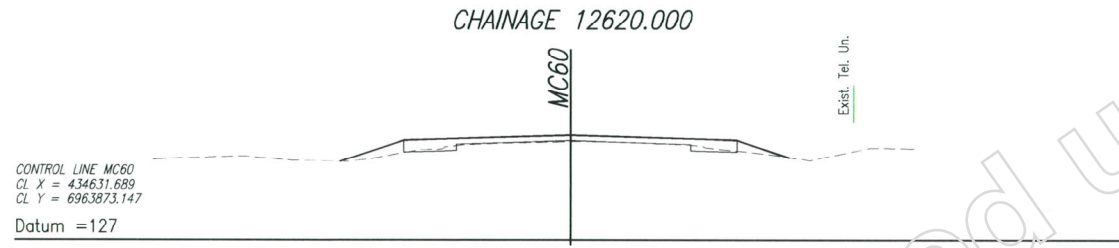
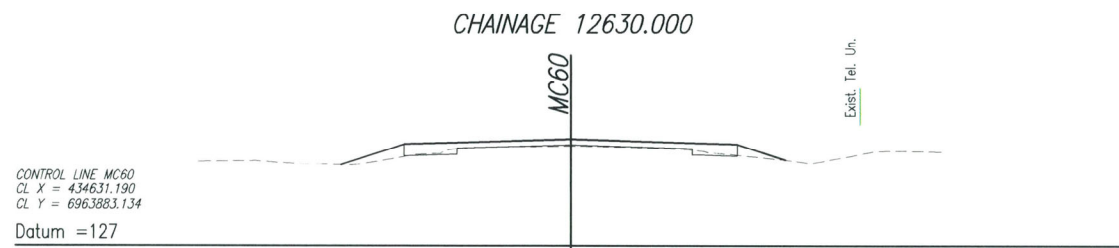
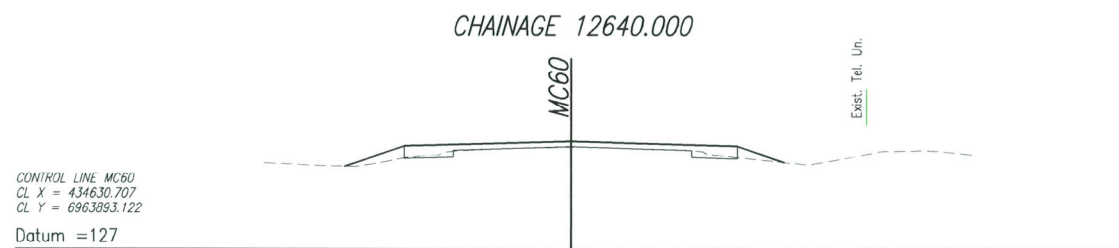
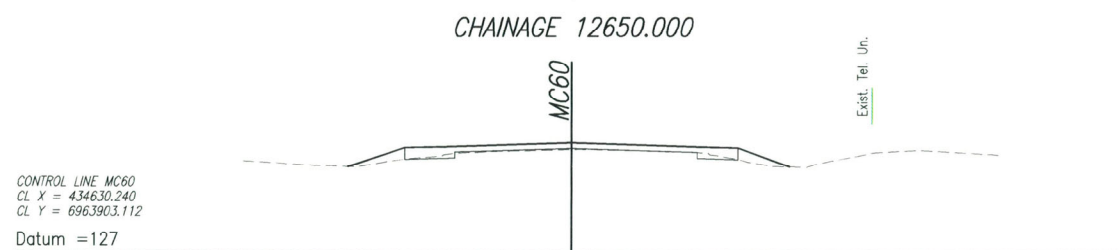
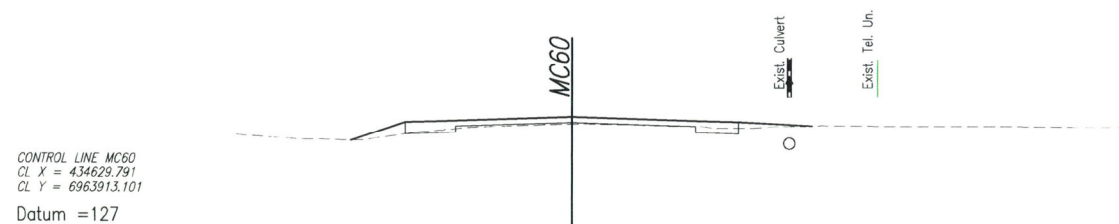
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	Datum: GDA94
Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY			
CROSS SECTIONS - CONTROL LINE MC60			
SHEET 2 OF 6			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B.DAETH	ENG. AREA	NAME	NO. DATE
Designed	CIVIL	M.WRIGHT	NR 8411 1/3/16
N.WILSON			

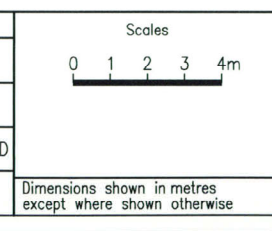
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Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650954 1A
Series Number	of
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Revisions/Descriptions		Certification	Date	Microfiled

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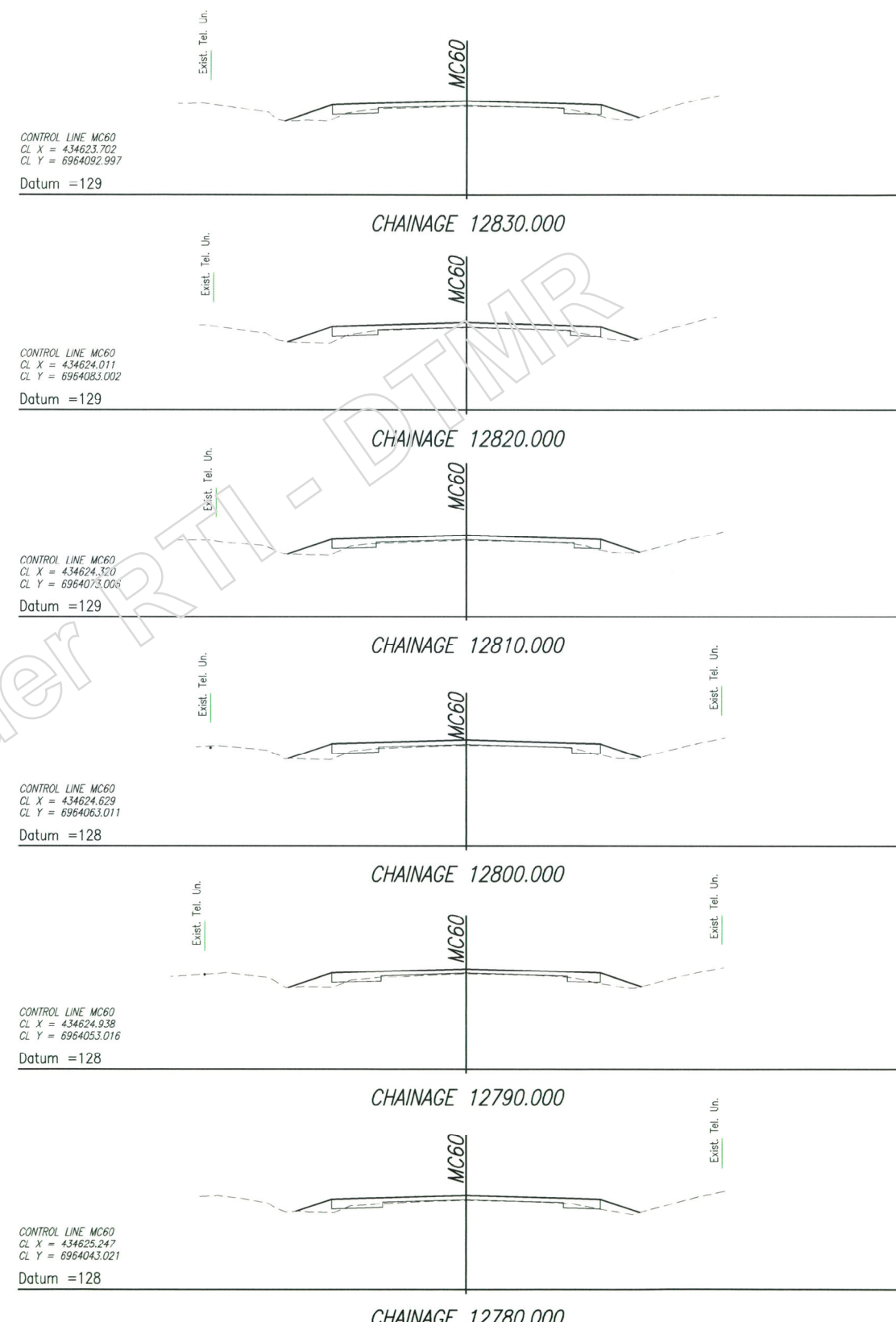
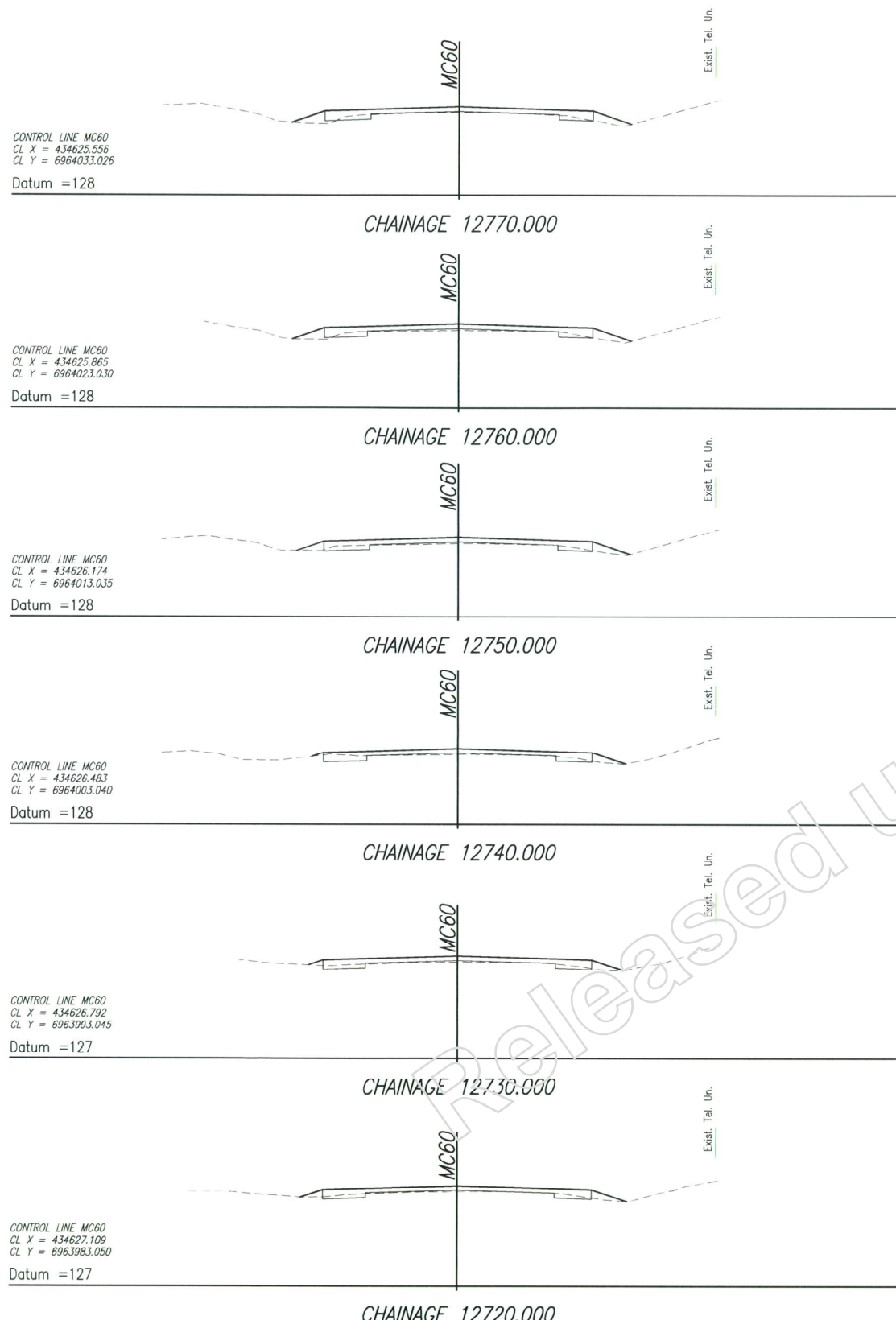


LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY	
CROSS SECTIONS - CONTROL LINE MC60	
SHEET 3 OF 6	
Drawn	B.DAULTH
Designed	N.WILSON
ENG. AREA	CIVIL
NAME	M.WRIGHT
NO.	8411/13/16
DATE	1/3/16

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650955 1A
Series Number	of
MRR_Detail (02/14)	

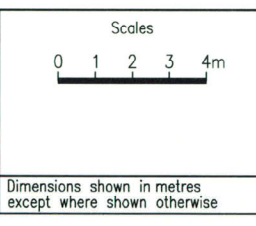




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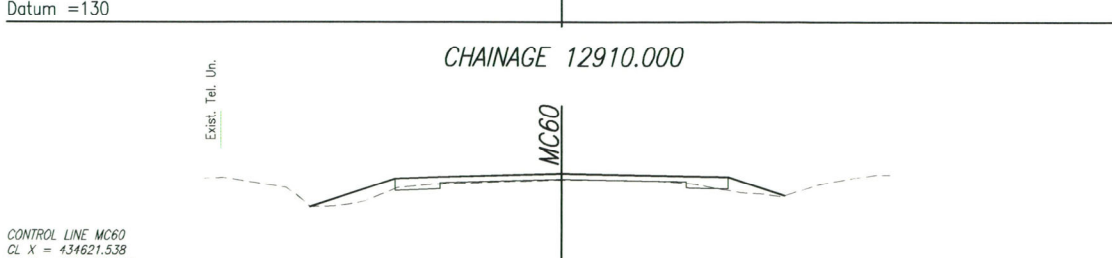
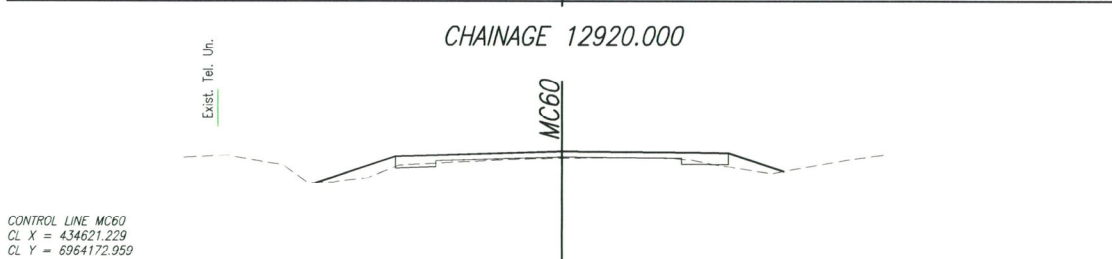
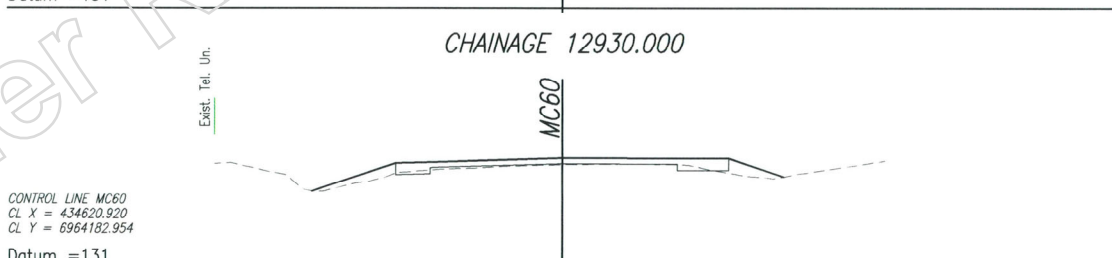
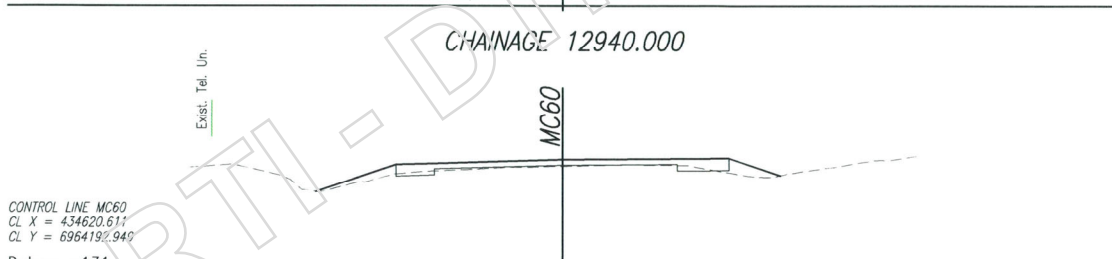
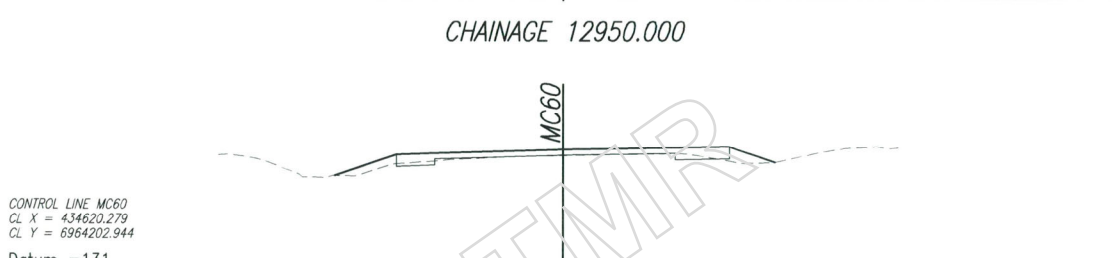
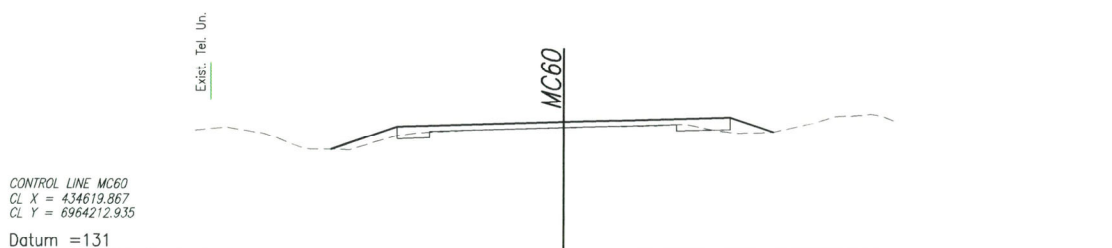
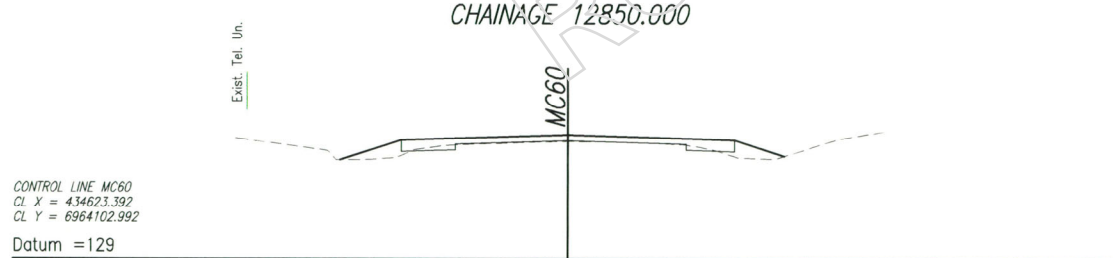
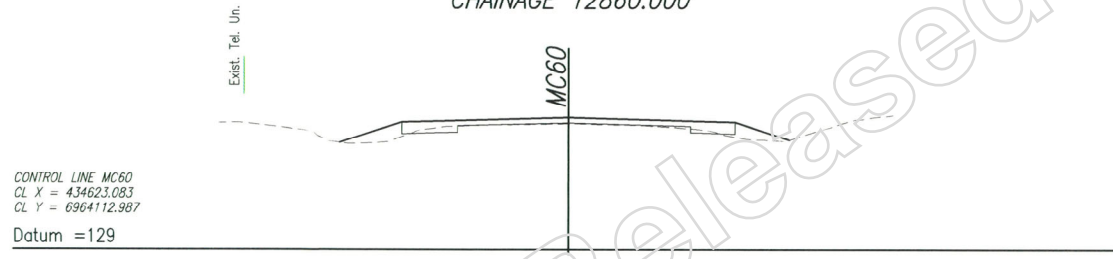
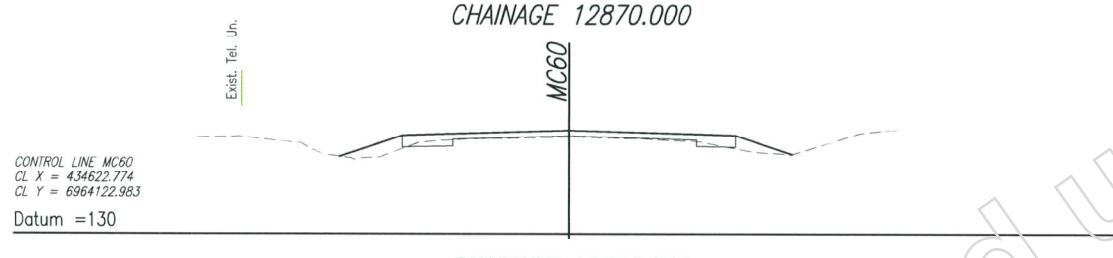
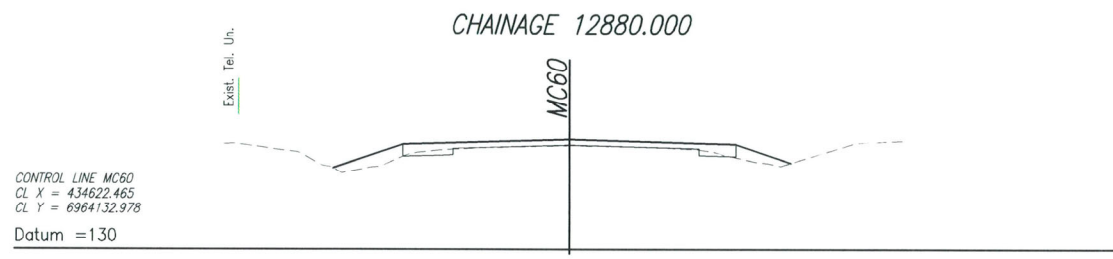
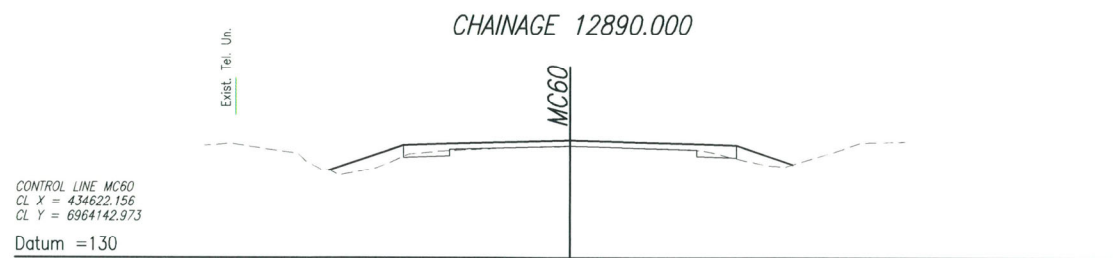
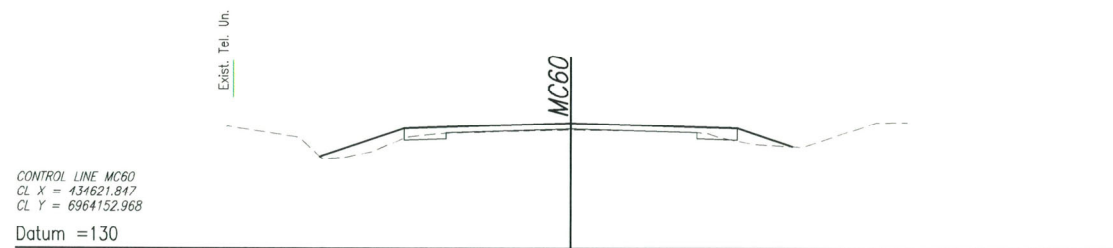
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	Datum: GDA94
Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057



LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY			
CROSS SECTIONS - CONTROL LINE MC60			
SHEET 4 OF 6			
Drawn	ENGINEERING CERTIFICATION (RPEQ)		
B.DAETH	ENG. AREA	NAME	SIGNATURE
Designed	CIVIL	M.WRIGHT	NR
N.WILSON			
	NO.	DATE	
	14/11	13/16	

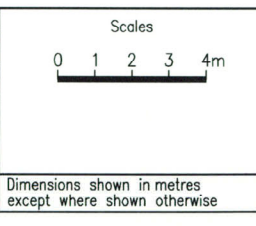
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Contract No.	DDWD-88
Drawing No.	650956   A
Series Number	of
MRR Detail (02/14)	



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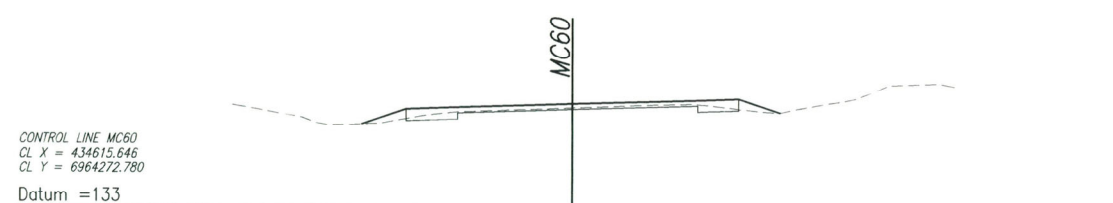
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	Height Origin AHD DERIVED
Survey Books	MR100057



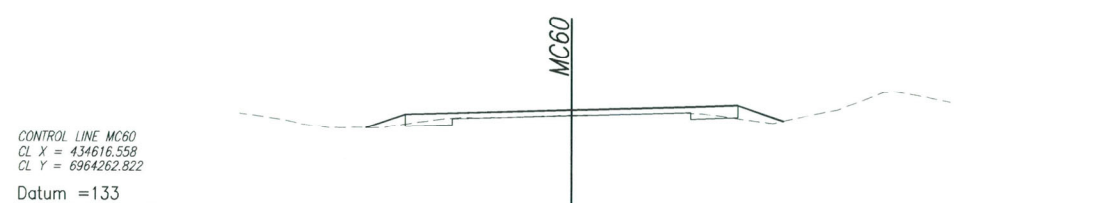
LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY		CROSS SECTIONS - CONTROL LINE MC60		SHEET 5 OF 6	
Drawn	B.DAETH	ENG. AREA	CIVIL	NAME	M.WRIGHT
Designed	N.WILSON	NO.	841	DATE	1/3/16

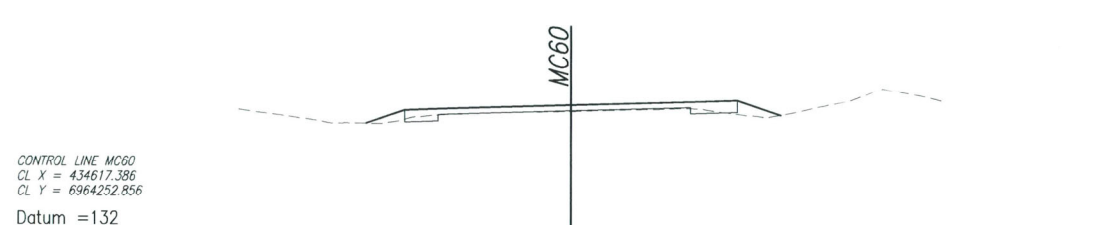
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Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650957 1A
Series Number	of
MRR_Detail (02/14)	



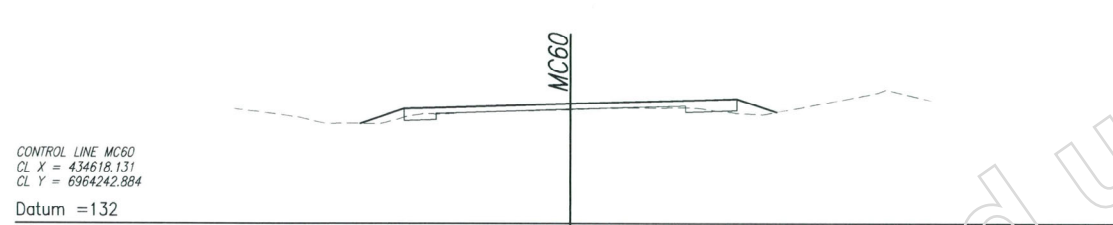
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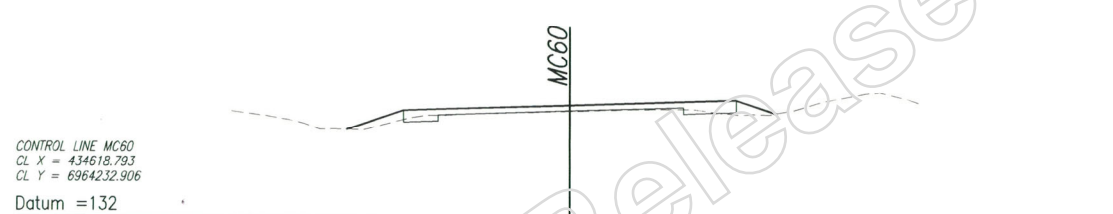
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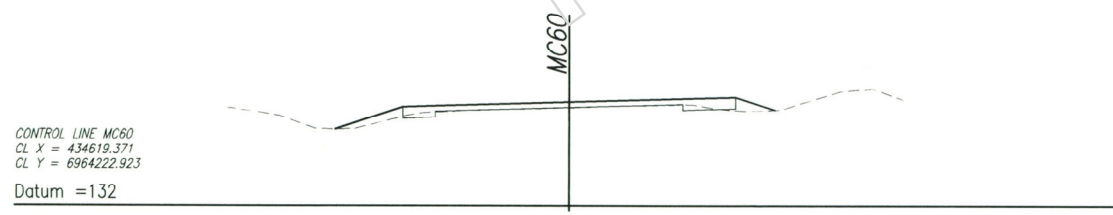
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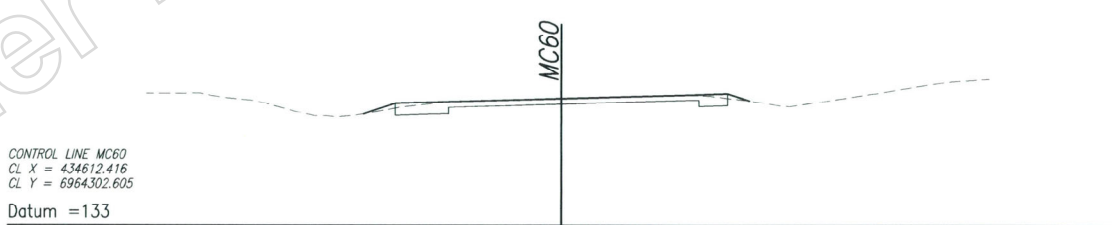
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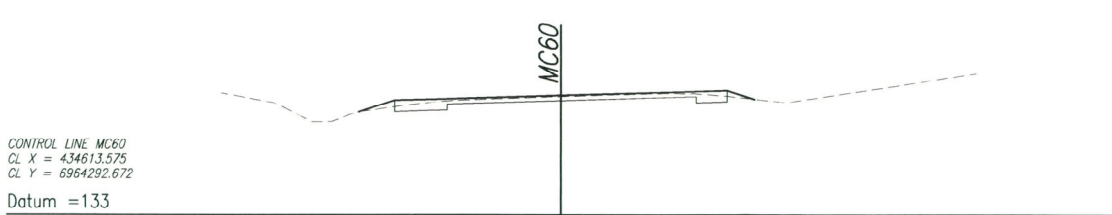
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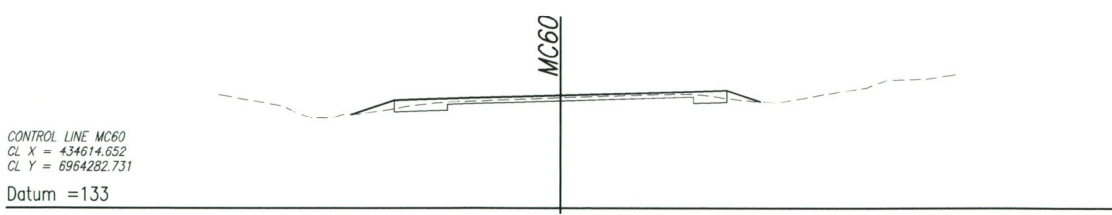
CHAINAGE 12960.000



CHAINAGE 13040.000



CHAINAGE 13030.000



CHAINAGE 13020.000

Released under RTI - DTMR

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Revisions/Descriptions		Certification	Date
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Associated Job Nos	Survey Data
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Auxiliary Drg Nos	Horiz. Grid: MGA94
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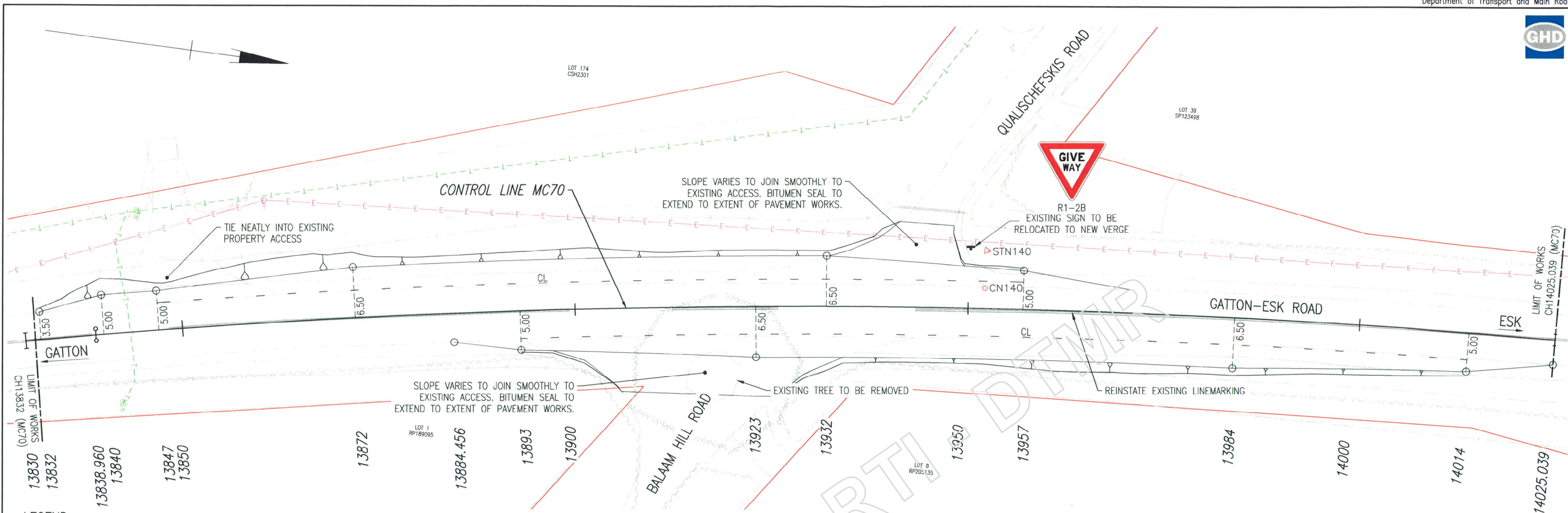
Scales

Dimensions shown in metres except where shown otherwise

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 12350 - 13040				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	4.03	0.69	4.73	4
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km				

SITE 6 - WIDENING AND OVERLAY		CROSS SECTIONS - CONTROL LINE MC60	
SHEET 6 OF 6			
Drawn	B. DAUTH	ENGINEERING CERTIFICATION (RPEQ)	
Designed	N. WILSON	ENG. AREA	NAME
		CIVIL	M. WRIGHT
		NR	
		NO.	DATE
		841	1/3/16

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650958 1A
Series Number	of
MRR_Detail (02/14)	



**LEGEND**

- CL - CONTINUITY LINE (WB)
- NEW SIGN/SIGN TO BE RELOCATED
- EXISTING SIGN TO REMAIN
- 25.624 @ 4.25 - SETOUT POINT WITH CHAINAGE AND OFFSET

**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

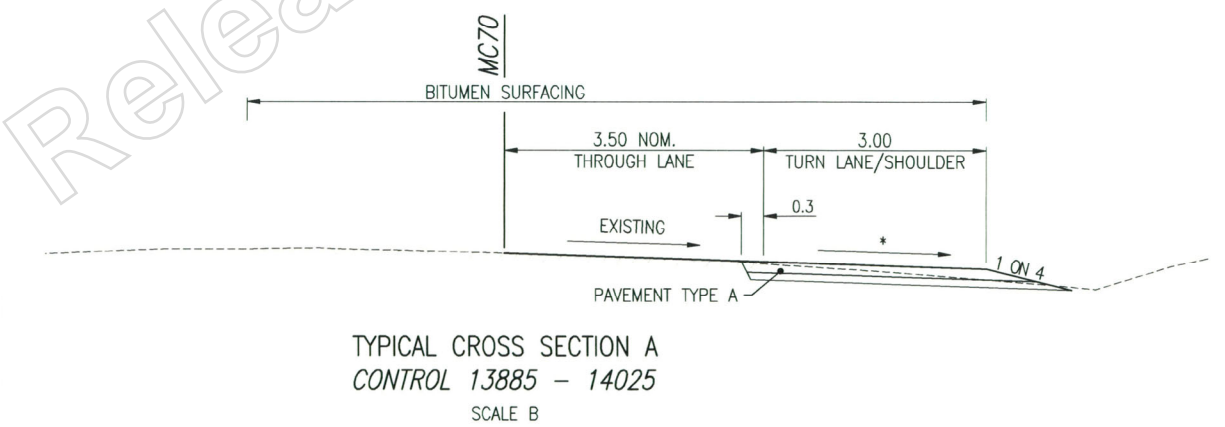
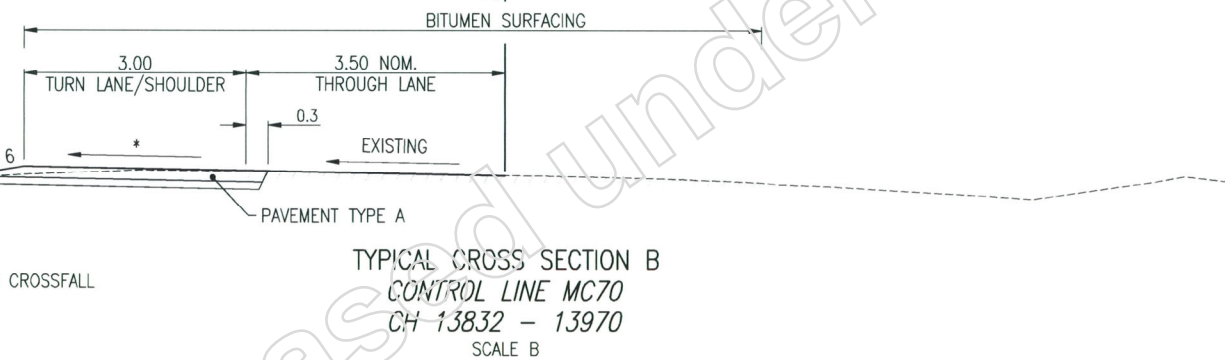
**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 100mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.



**SURVEY MARKS**

PT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN138	434389.654	6965025.270	-	0.99962320	S/PIC
STN140	434348.327	6965218.266	-	0.99962311	S/PIC
CN140	434353.163	6965218.688	-	-	-

**CONTROL LINE MC70**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	13830	434376.42	6965098.718	149.009	347°00'27.88"		
IP2		434375.413	6965103.083			1009.811	8.96
CC	13838.96	434374.445	6965107.457	149.038	347°30'58.02"		
IP3		434354.284	6965198.517			1095	186.08
END	14025.039	434349.814	6965291.674	149.232	357°15'09.83"		

- NOTES**
- ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  - EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  - ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  - UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  - ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  - RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  - TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  - GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

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Associated Job Nos	Survey Data
Auxiliary Drg Nos	Datum: GDA94
	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057
Revisions/Descriptions	Certification
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**LOCKYER VALLEY REGIONAL COUNCIL**

**GATTON-ESK ROAD**

**CTL CHGE 13832 - 14025.039**

Reference Points

Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	5.51	0.19	3.75	4

Through Chainage from INTERSECTION 18A/4144, 13.8km - 14.0km

Drawn	B.DAETH
Designed	N.WILSON

**SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD**

**GENERAL ARRANGEMENT**

ENGINEERING CERTIFICATION (RPEQ)

ENG. AREA	NAME	NO.	DATE
CIVIL	M.WRIGHT	NR	14/11/16

**Queensland Government**

Job No. 239/4144/2

Contract No. DDWD-88

Drawing No. 650959 1A

Series Number of

MRR Detail (02/14)



CHAINAGE 13880.000



CHAINAGE 13870.000



CHAINAGE 13860.000



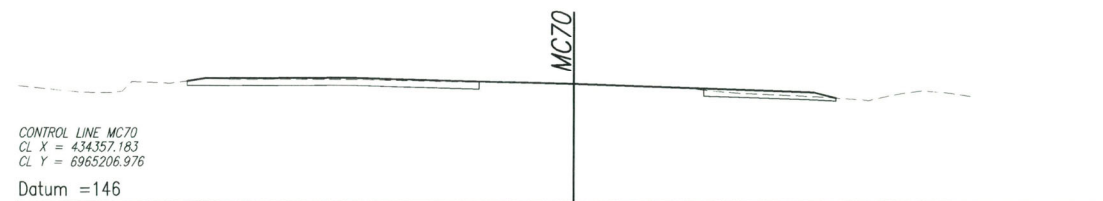
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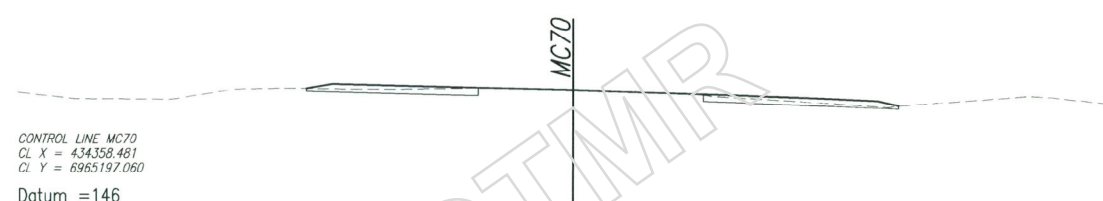
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CHAINAGE 13930.000



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CHAINAGE 13910.000



CHAINAGE 13900.000

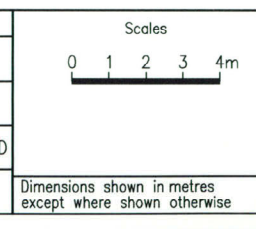


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	Revisions/Descriptions	Certification	Date	Microfiled	

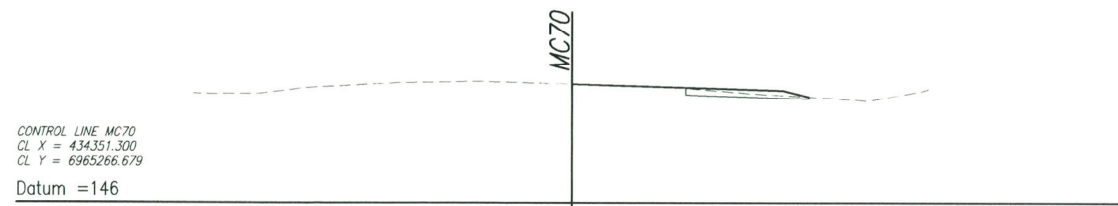
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Auxiliary Drg Nos	Horiz. Grid MGA94
	Height Origin AHD DERIVED
	Survey Books MR100057



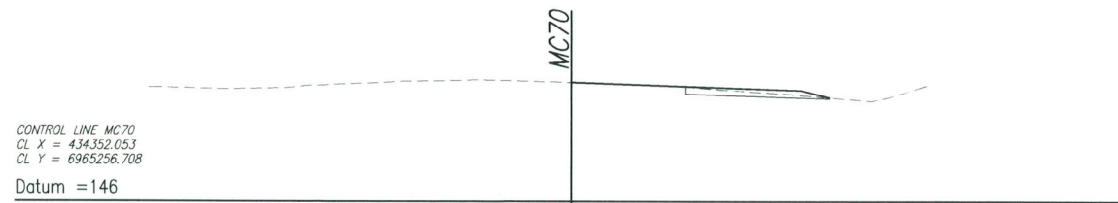
LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 13832 - 14025.039				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	5.51	0.19	3.75	4
Through Chainage from INTERSECTION 18A/4144, 13.8km - 14.0km				

SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD	
CROSS SECTIONS - CONTROL LINE MC70	
SHEET 1 OF 2	
Drawn	ENGINEERING CERTIFICATION (RPEQ)
B.DAULTH	ENG. AREA NAME SIGNATURE
Designed	N.WILSON
	CIVIL M.WRIGHT NR
	NO. DATE
	844 1/3/16

Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650960 1A
Series Number	of
MRR_Detail (02/14)	



CHAINAGE 14000.000



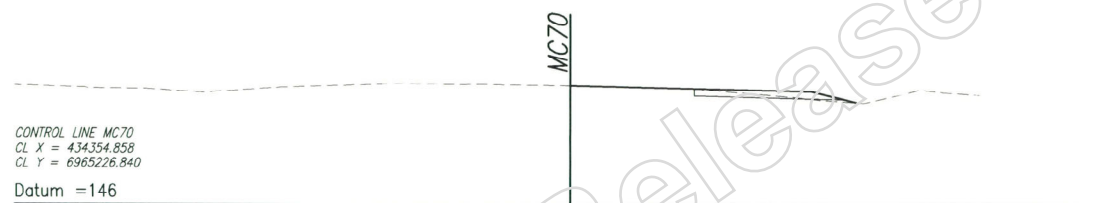
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CHAINAGE 13970.000



CHAINAGE 13960.000



CHAINAGE 13950.000



CHAINAGE 14010.000

Last Modified: 24 Feb 2016 10:30:00 AM XREFS: N:\AU\Toowoomba\Projects\4129381\CADD\Autocad\Drawings\07\_XS-02.dwg

G F E D C B A	Issued For Construction	Associated Job Nos Survey Data Datum: GDA94 Auxiliary Drg Nos Horiz. Grid: MGA94 Height Origin: AHD DERIVED Survey Books: MR100057 Dimensions shown in metres except where shown otherwise	Scales 0 1 2 3 4m	LOCKYER VALLEY REGIONAL COUNCIL		SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD		Queensland Government Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650961 IA Series Number of MRR_Detail (02/14)		
	Revisions/Descriptions			Certification	Date	GATTON-ESK ROAD			CROSS SECTIONS - CONTROL LINE MC70	
	MF 04.16 A			CTL CHGE 13832 - 14025.039		SHEET 2 OF 2				
	Through Chainage from INTERSECTION T8A/4144, 13.8km - 14.0km			Reference Points Preceding RP: 2, Dist. to start of job (km): 5.51 From start to end of job: 0.19 From end to Following RP: 3.75 Following RP: 4		Drawn: B.DAETH Designed: N.WILSON ENGINEERING CERTIFICATION (RPEQ) ENG. AREA: CIVIL NAME: M. WALGAT SIGNATURE: [Signature] NO.: 8441 DATE: 1/3/16				

**Lesli J Bencze**

**From:** Lesli J Bencze  
**Sent:** Thursday, 5 April 2018 12:01 PM  
**To:** Lachlan Z Swindells  
**Subject:** RE: Job 239/4144/3  
**Attachments:** Job 239-4144-3.pdf

Spoke to Lachlan Swindell on 1<sup>st</sup> May 2018, he explained how this job was done in stages as the construction team were pulled off to work with ~~the~~ TERC, so he is happy for me to use end April 17

Hi Lachlan,

I was just updating this job and noticed in DVR dated 3-Apr-17 that all sites had a full width seal clearly visible as (please see document attached), yet the primer seal was over the widening only and the full width seal wasn't done until 15-Nov-17, can you please clarify this situation?

completion date, since the evidence is depicted in DVR.

I haven't included sites 4 & 6 in the attached document as they were a full width recon, whereas the other sites where widening LHS or RHS only.

Regards,

*Lesli Bencze*

Program Support Officer (RIS) | Darling Downs District  
**Program Delivery And Operations | Department of Transport and Main Roads**  
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Locked Bag 1 | Warwick Qld 4370  
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E: [lesli.j.bencze@tmr.qld.gov.au](mailto:lesli.j.bencze@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

**From:** Lachlan Z Swindells  
**Sent:** Thursday, 8 March 2018 2:26 PM  
**To:** Lesli J Bencze <[lesli.j.bencze@tmr.qld.gov.au](mailto:lesli.j.bencze@tmr.qld.gov.au)>  
**Subject:** RE: Job 239/4144/3

Lesli,

Yup, this has been completed. The date of completion was 15 November 2017.

The seal was a Double/Double (14/7mm) with S0.7S (S15E).

Regards

**Lachlan Swindells**  
Engineer (Contractor) | Darling Downs  
**Program Delivery and Operations | Department of Transport and Main Roads**

Floor 2 | 1-5 Phillip Street | Toowoomba Qld 4350  
Locked Bag 1 | Warwick Qld 4370  
M NR  
E: [Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

**From:** Lesli J Bencze  
**Sent:** Thursday, 8 March 2018 12:36 PM  
**To:** Lachlan Z Swindells <[Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)>  
**Subject:** Job 239/4144/3

To : MANAGER(ASSET MANAGEMENT SYSTEMS)  
 Thru : Senior Advisor(Asset Management Systems)

Subject : Certificate of Impending Physical Completion of Works / Open to Traffic Report

3PCM Job Number : 10801 Job Type : CONS Job Cat : REHAB

3-part Job Number 239/4144/3

Job Local Description: Gatton - Dist Bdy 7 sites

Job Full Description: 5 intersection upgrades and 2 widening sites between Gatton and the district boundary 1.02 - 14km. 4144 Gatton Esk Road.

Physical Completion of Job Date : 28-APR-2017

Open To Traffic Date : 28-APR-2017

Local Authority: LOCKYER VALLEY REGIONAL COUNCIL

Road	Description	Distance in km from start of Road Section	
		Start	End
4144	GATTON-ESK ROAD	1.010	1.250
4144	GATTON-ESK ROAD	5.080	5.230
4144	GATTON-ESK ROAD	9.190	9.330
4144	GATTON-ESK ROAD	9.630	10.850
4144	GATTON-ESK ROAD	11.120	11.550
4144	GATTON-ESK ROAD	12.360	13.000
4144	GATTON-ESK ROAD	13.810	14.000

Gazettal Action Required ?

DRN Charge Required?

Tick  Access Limitation

Motorway

Rail Common Area

Resumption Plan(s) : .....

L.A. Plan(s) : .....

Motorway Plan(s) : .....

Certification of completion (to be completed by delegated district officer)

I hereby certify in terms of the Transport Infrastructure(Roads) Act that the works as described are fit for use as a road.

Remarks .....

Project Manager .....Date...../...../.....

Approved (to be completed by delegated district officer)

Have all necessary approvals been received from the Local Authority? Y / N



# Road Inventory - Job Details

\* Refer to RREF \ RINV Coding Booklet for codes

Job Number 239/4144/3		Contract Number DDWD-111 3PCM No. 10801		Job Type CONS MTCE	Job Category CONST REHAB FD ROM SOM SPEC			
Owning District Code\Name 3		Assoc. District Code\Name						
Local Description DIST GATTON - BORDER 7 SITES		Full Description 5 INTERSECTION UPGRADES AND 2 WIDENING SITES between GATTON and DISTRICT BOUNDARY 4144 GATTON ESK ROAD. 1.02 km -						
Construction Method Type *		RIC RELATIONA INCENTIVE CONTRACT.						
Plot Job Type *								
Road centreline recapture required?		Yes No	Gazettal change required?		Yes No	Will job be applied to Inventory?		Yes No
		Start of Construction		Physical Completion		Open to Traffic		
Programmed Date		9-MAY-2016		1-APR-2017		1-APR-2017		
Actual Date		9-MAY-2016		28-APR-2017		28-APR-2017		

## Road Section Location Details

Dist.	Road Section	RPC	Offset	Tdist Start	RPC	Offset	Tdist End
3	4144	1C		1.08			1.25
3	4144	1C		5.08			5.23
3	4144	1C		9.19			9.38
3	4144	1C		9.68			10.00
3	4144	1C		11.20-12			11.49.55
3	4144	1C		12.36			13.080
3	4144	1C		13.81			14.00

Comments (if required)  
 INFORMED BY LACHLAN SWINDLES THAT JOB N<sup>o</sup> IS DEFINITELY 239/4144/3.  
 FINISHED TO PRIME IN APRIL - FINAL SEAL TO BE DONE SEPT 2017  
 ADJUST TO PUT FINAL SEAL OVER ALL LANES JP 45718

Checked /	Applied NR 4/17	Structures	As Constructed	PavRisk Updated
NR 4/17	Applied checked	BIS Updated	As Cons. Updated	RAS Updated

## Lesli J Bencze

---

**From:** Lachlan Z Swindells  
**Sent:** Thursday, 8 March 2018 2:26 PM  
**To:** Lesli J Bencze  
**Subject:** RE: Job 239/4144/3

Lesli,

Yup, this has been completed. The date of completion was 15 November 2017.

The seal was a Double/Double (14/7mm) with S0.7S (S15E).

Regards

**Lachlan Swindells**  
Engineer (Contractor) | Darling Downs  
**Program Delivery and Operations** | Department of Transport and Main Roads

Floor 2 | 1-5 Phillip Street | Toowoomba Qld 4350  
Locked Bag 1 | Warwick Qld 4370  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Lesli J Bencze  
**Sent:** Thursday, 8 March 2018 12:36 PM  
**To:** Lachlan Z Swindells <[Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)>  
**Subject:** Job 239/4144/3

Hi Lachlan,

Just following up with this job and the final seal, we were last advised by you in October that the final seal was programmed for November 2017. Can you please confirm this has been completed and the date it was done. And that it was still a full width Class 0.7S Double/Double 7/14mm seal.

Many thanks.  
Kind regards,

*Lesli Bencze*

Program Support Officer (RIS) | Darling Downs District  
**Program Delivery And Operations** | Department of Transport and Main Roads  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

## Cheryl A Skillington

---

**From:** Mark C Pierce  
**Sent:** Friday, 28 April 2017 11:20 AM  
**To:** Cheryl A Skillington  
**Cc:** Sean Hennessy; Lachlan Z Swindells  
**Subject:** RE: Project Managers please read

Cheryl,

NR

239/4144/3 not complete yet as waiting for a final seal

NR

Hope this helps. This is all the ones I know about.

Kind regards,

**Mark Pierce**

Senior Project Manager | Downs South West Operations  
RoadTek | Department of Transport and Main Roads

Floor 1 | Parker Street | Warwick Qld 4370  
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W: [www.roadtek.qld.gov.au](http://www.roadtek.qld.gov.au)

---

**From:** Cheryl A Skillington  
**Sent:** Friday, 28 April 2017 10:01 AM  
**To:** DD\_District <DD\_District@tmr.qld.gov.au>  
**Cc:** Daniel G Huie <Daniel.G.Huie@tmr.qld.gov.au>; Adam B Currie <adam.b.currie@tmr.qld.gov.au>; Dereck J Sanderson <Dereck.J.Sanderson@tmr.qld.gov.au>  
**Subject:** Project Managers please read

I have attached a list of jobs in progress extracted from Road Inventory.

It was disappointing to receive only 1 reply to my previous request.

As the asset valuation is conducted as at 30<sup>th</sup> April, today is the last day that jobs can be applied to the network before this happens. It is imperative that any jobs on this list, that have been physically completed (on site), need to be applied.

As Lesli and I will not be working over the week end, that means today, and as early as possible.

Please check the list and if any jobs fall into this category (and by the look of the estimated completion date, there will be many) send through the following information:

Actual start date  
And

# PROCEDURE ACTION RECORD FORM

FORM RR01

District	Job Number
3	239141441 3

Entry Date

Step No	Step Description	Completion Date
1	SITE 1 CREATE LANE M/M 1.02-1.08, 1.20-1.25 L/R 1.06-1.15, N/R 1.15-1.22, A/A 1.11-1.17	
2	SITE 2 CREATE LANE A/L 5.08-5.19 CREATE LANE A/A 5.19-5.20	
3	CREATE LANE F/P 5.20-5.23	
4	SITE 3 CREATE LANE F/P 9.27-9.30	
5	SITE 5 CREATE LANE M/M 11.20-11.29 11.38-11.49	
6	CREATE LANE L/R 11.26-11.38 CREATE LANE F/P 11.39-11.45	
7	SITE 7 CREATE LANE A/A 13.81-13.95 CREATE LANE Q/A 13.86-14.00	
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		

## Cheryl A Skillington

---

**From:** Lachlan Z Swindells  
**Sent:** Wednesday, 29 March 2017 4:49 PM  
**To:** Cheryl A Skillington  
**Subject:** RE: Information on job 239/4144/3

Yup, the final seal is included in the Contract. We'll be granting Practical Completion as of March, with the final seal to be an omission.

Regards

**Lachlan Swindells**  
Engineer (Contractor) | Darling Downs  
Program Delivery and Operations | Department of Transport and Main Roads

Floor 2 | 1-5 Phillip Street | Toowoomba Qld 4350  
Locked Bag 1 | Warwick Qld 4370  
M: [REDACTED]  
E: [Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)  
W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Cheryl A Skillington  
**Sent:** Wednesday, 29 March 2017 4:48 PM  
**To:** Lachlan Z Swindells <[Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)>  
**Subject:** RE: Information on job 239/4144/3

That is great

Is the final seal included in this contract?

If it is, then this job is not completed, and it should not be included in the Asset Valuation taken at the end of April.

Please let me know

Regards

*Cheryl Skillington*  
Program Support Coordinator (RIS) | Darling Downs District  
Program Development and Performance | Department of Transport and Main Roads

Ground Floor | Warwick Main Roads Building | 306 Wood Street | Warwick Qld 4370  
Locked Bag 1 | Warwick Qld 4370  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Lachlan Z Swindells  
**Sent:** Wednesday, 29 March 2017 4:28 PM  
**To:** Cheryl A Skillington <[cheryl.a.skillington@tmr.qld.gov.au](mailto:cheryl.a.skillington@tmr.qld.gov.au)>  
**Subject:** RE: Information on job 239/4144/3

Cheryl,

Hopefully the attached is what you're chasing. Yes, the works have finished apart from the final seal which is scheduled to be completed in September 2017.

Regards

**Lachlan Swindells**  
Engineer (Contractor) | Darling Downs  
Program Delivery and Operations | Department of Transport and Main Roads

Floor 2 | 1-5 Phillip Street | Toowoomba Qld 4350  
Locked Bag 1 | Warwick Qld 4370  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Cheryl A Skillington  
**Sent:** Wednesday, 29 March 2017 4:07 PM  
**To:** Lachlan Z Swindells <[Lachlan.Z.Swindells@tmr.qld.gov.au](mailto:Lachlan.Z.Swindells@tmr.qld.gov.au)>  
**Subject:** FW: Information on job 239/4144/3

Hello Lachlan  
I just got a return email from Nicholas about being away  
Can you please help with the info on the job in question

Regards

*Cheryl Skillington*

Program Support Coordinator (RIS) | Darling Downs District  
Program Development and Performance | Department of Transport and Main Roads

Ground Floor | Warwick Main Roads Building | 306 Wood Street | Warwick Qld 4370  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

---

**From:** Cheryl A Skillington  
**Sent:** Wednesday, 29 March 2017 3:47 PM  
**To:** Nicholas X Hill <[Nicholas.X.Hill@tmr.qld.gov.au](mailto:Nicholas.X.Hill@tmr.qld.gov.au)>  
**Subject:** Information on job 239/4144/3

Hello Nicholas

Hope your day has been good  
I need some info on the following job:

Job 239/4144/3 is programmed to be completed by 28/4/17.

To date I have not received any documents for this job.  
Would you have a copy of the scheme docs that could be sent to me?

Also if this job is to be completed by the end of April, it will be included in the Asset Valuation.  
Please let me know if this is likely to happen.

Thanks

Regards

*Cheryl Skillington*

Program Support Coordinator (RIS) | Darling Downs District  
Program Development and Performance | Department of Transport and Main Roads

Ground Floor | Warwick Main Roads Building | 306 Wood Street | Warwick Qld 4370  
Locked Bag 1 | Warwick Qld 4370  
P: (07) 46616404 | F: (07) 46616380  
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W: [www.tmr.qld.gov.au](http://www.tmr.qld.gov.au)

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CONSTRUCTED TO PRIME ONLY  
 FINAL SEAL TO BE DONE IN SEPTEMBER 2017.



Queensland Government

Calculation/Sketch Sheet

K2 7mm  
 K2 14mm

Job Title 239/4144/2 OVER ALL LANES. Job/File No. \_\_\_\_\_

Subject 7 SITES.

① Recon

SITE 1 - INTERSECTION 6453.

N1 10  
 B1 150  
 B1 100  
 B1 55  
 A1 1



1001.098 [1.02]

② Recon

N1 10  
 K2 7 25-NOV-2014  
 K2 14 "  
 N1 7 "  
 B1 150 "  
 B1 150 "  
 C4 300 "  
 A1 1 "

1043.825 [1.06]

1063.694 [1.08]

1.09

1092.224 [1.11]

[1.14]

(R) LAKE CLARENDON WAY.  
 1:15

JORDAN'S WEIR ROAD (L)  
 1133 1:15

[1.16]

[1.17]

③ Recon

N1 10  
 K2 7 25-NOV-2014  
 K2 14 "  
 N1 10 "  
 C4 250 "  
 B1 200 "  
 A1 1 "

1179.93 [1.20]

1199.935 [1.22]

1237.171 [1.25]



## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Government Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Layer Type		All
Start Distance	1.02	
End Distance	1.25	
Report As At	07-APR-2017	

## Road Inventory System Layer Details Report

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane 1            X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
1A	0.760	0.330	239					3.5	0.760	1.090	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	B1	Standard Granular	150	25-NOV-2014
											5	B1	Standard Granular	150	25-NOV-2014
											6	C4	Cement Stabilised Granular-Modified	300	25-NOV-2014
											7	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.090	0.150	239					3.5	1.090	1.240	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.240	0.480	239					3	1.240	1.720	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014

Road Inventory System  
Layer Details Report

District 3 SOUTHERN DISTRICT  
 Owner MR DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1 Lane 2 X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
1A	0.760	0.330	239					3.5	0.760	1.090	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	B1	Standard Granular	150	25-NOV-2014
											5	B1	Standard Granular	150	25-NOV-2014
											6	C4	Cement Stabilised Granular-Modified	300	25-NOV-2014
											7	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.090	0.150	239					3.5	1.090	1.240	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.240	0.480	239					3	1.240	1.720	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014

Road Inventory System  
Layer Details Report

District 3 SOUTHERN DISTRICT  
 Owner MR DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1 Lane E X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
1A	0.760	0.330	239					1.5	0.760	1.090	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	B1	Standard Granular	150	25-NOV-2014
											5	B1	Standard Granular	150	25-NOV-2014
											6	C4	Cement Stabilised Granular-Modified	300	25-NOV-2014
											7	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.090	0.070	239					1.5	1.090	1.160	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.160	0.130	239					1.2	1.160	1.290	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014

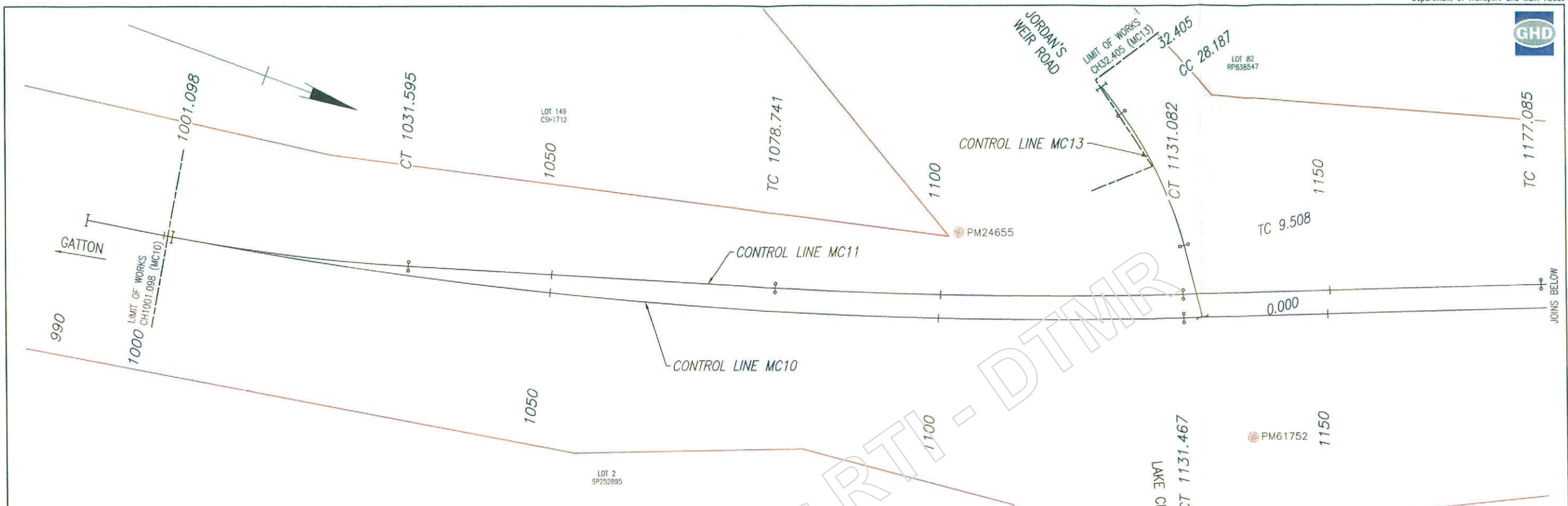
Released under RTI D TMR

## Road Inventory System Layer Details Report

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane U            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
1A	0.760	0.330	239					1.5	0.760	1.090	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	B1	Standard Granular	150	25-NOV-2014
											5	B1	Standard Granular	150	25-NOV-2014
											6	C4	Cement Stabilised Granular-Modified	300	25-NOV-2014
											7	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.090	0.070	239					1.5	1.090	1.160	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014
1A	1.160	0.130	239					1.2	1.160	1.290	1	K2	PMB Spray Seal	7	25-NOV-2014
											2	K2	PMB Spray Seal	14	25-NOV-2014
											3	N1	Primerseal	10	25-NOV-2014
											4	C4	Cement Stabilised Granular-Modified	250	25-NOV-2014
											5	B1	Standard Granular	200	25-NOV-2014
											6	A1	Natural Soil Subgrade	1	25-NOV-2014

Released under RTI/DITMR



CONTROL LINE MC10

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	990	432979.956	6953496.667	98.23	351°27'01.12"		
IP2		432969.393	6953566.928			-612	141.467
CT	1131.467	432943.015	6953632.899	100.25	338°12'22.03"		
TC	1253.918	432897.552	6953746.598	99.278	338°12'22.03"		
IP3		432896.423	6953749.422			1228	6.082
END	1260	432895.308	6953752.252	99.228	338°29'23.68"		

CONTROL LINE MC11

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	1001.098	432978.206	6953507.627	98.59	350°24'40.05"		
IP2		432975.663	6953522.682			-240	30.497
IP3	1031.595	432971.232	6953537.294	99.339			
IP4	1078.741	432957.551	6953582.411	100.065			
IP5		432949.951	6953607.471			-609	52.341
CT	1131.082	432940.229	6953631.786	100.166	338°12'22.03"		
TC	1177.085	432923.15	6953674.501	99.804	338°12'22.03"		
IP6		432920.077	6953682.186			240	16.548
CT	1193.632	432917.54	6953690.065	99.698	342°09'23.64"		
TC	1220.623	432909.27	6953715.758	99.54	342°09'23.64"		
IP7		432906.734	6953723.637			-240	16.548
END	1237.171	432903.661	6953731.322	99.41	338°12'22.01"		

CONTROL LINE MC13

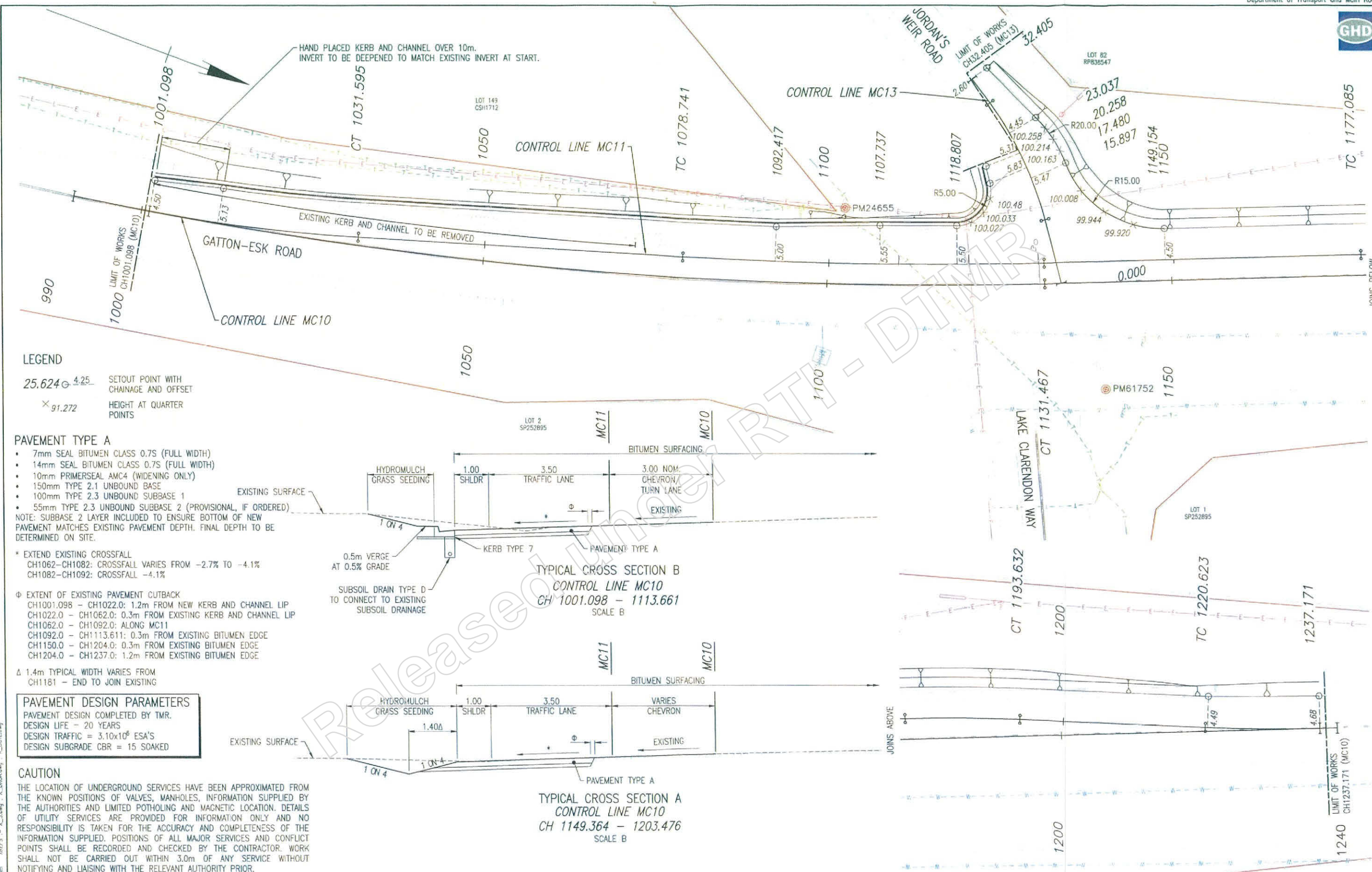
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	432942.103	6953635.185	100.233	235°14'11.79"		
TC	9.508	432934.292	6953629.764	100.084	235°14'11.79"		
IP2		432926.529	6953624.376			-50	18.679
CC	28.187	432921.268	6953616.526	100.425	213°49'53.60"		
IP3		432920.094	6953614.774			-250	4.218
END	32.405	432918.949	6953613.002	100.438	212°51'53.36"		

SURVEY MARKS

POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
TBM1.0K	433000.364	6953477.298	98.272	0.99963339	S/PIC
TBM1.4K	432850.998	6953853.314	98.380	0.99963362	S/PIC
PM24655	432942.777	6953602.103	100.040	0.99963321	STANDARD
PM61752	432954.286	6953646.460	99.524	0.99963327	S/PIC

Last Modified: Feb 24, 2016 - 2:56pm XREFS: X\_5.dwg; X\_DTL.dwg

G F E D C B A		Associated Job Nos	Survey Data	Scales	LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 1001 - 1237	SITE 1 - LAKE CLARENDON WAY CONTROL LINE SETOUT	Queensland Government	
			Auxiliary Drg Nos	Datum: GDA94 Horiz. Grid: MGA94 Height Origin: AHD DERIVED	Reference Points Preceding RP: 1A, 1.0 Dist. to start of job (km): 1.0 From start to end of job: 0.24 From end to Following RP: 3.66 Following RP: 10	Drawn: B.DAULT Designed: N.WILSON	ENGINEERING CERTIFICATION (RPEQ) ENG. AREA: CIVIL NAME: M.WRIGHT NO.: 8411 DATE: 1/3/16	Job No.: 239/4144/2 Contract No.: DDWD-88 Drawing No.: 650925 A Series Number: of MRR Detail (02/14)
		Revisions/Descriptions Certification Date Microfilied		Survey Books: MR1C0057 Dimensions shown in metres except where shown otherwise				



**LEGEND**

- 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET
- x 91.272 HEIGHT AT QUARTER POINTS

**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 150mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE 1
- 55mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

\* EXTEND EXISTING CROSSFALL  
 CH1062-CH1082: CROSSFALL VARIES FROM -2.7% TO -4.1%  
 CH1082-CH1092: CROSSFALL -4.1%

Φ EXTENT OF EXISTING PAVEMENT CUTBACK  
 CH1001.098 - CH1022.0: 1.2m FROM NEW KERB AND CHANNEL LIP  
 CH1022.0 - CH1062.0: 0.3m FROM EXISTING KERB AND CHANNEL LIP  
 CH1062.0 - CH1092.0: ALONG MC11  
 CH1092.0 - CH1113.611: 0.3m FROM EXISTING BITUMEN EDGE  
 CH1150.0 - CH1204.0: 0.3m FROM EXISTING BITUMEN EDGE  
 CH1204.0 - CH1237.0: 1.2m FROM EXISTING BITUMEN EDGE

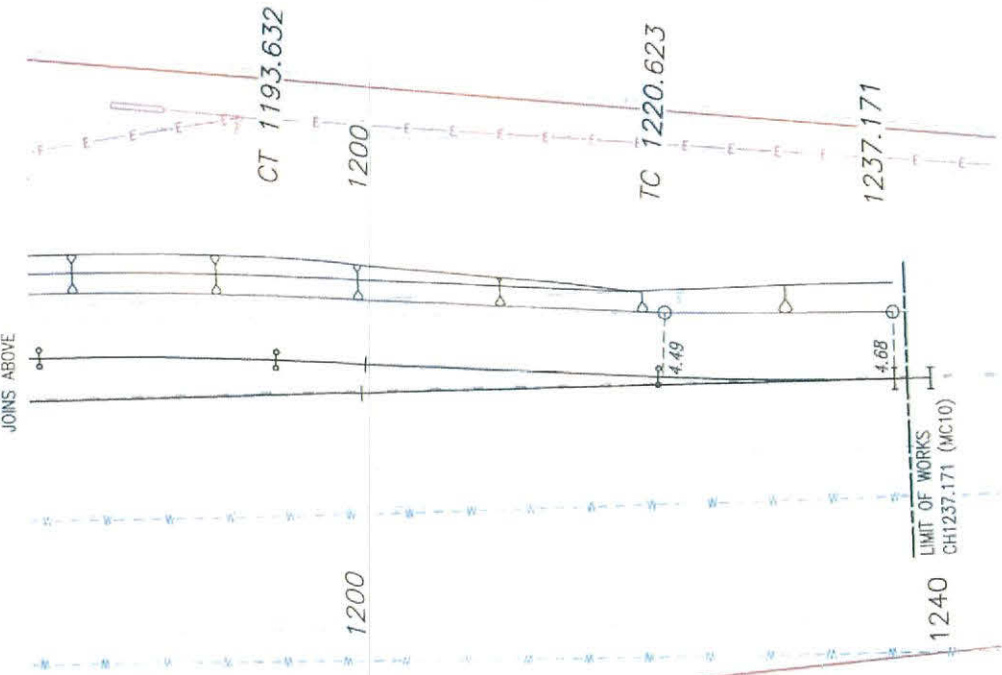
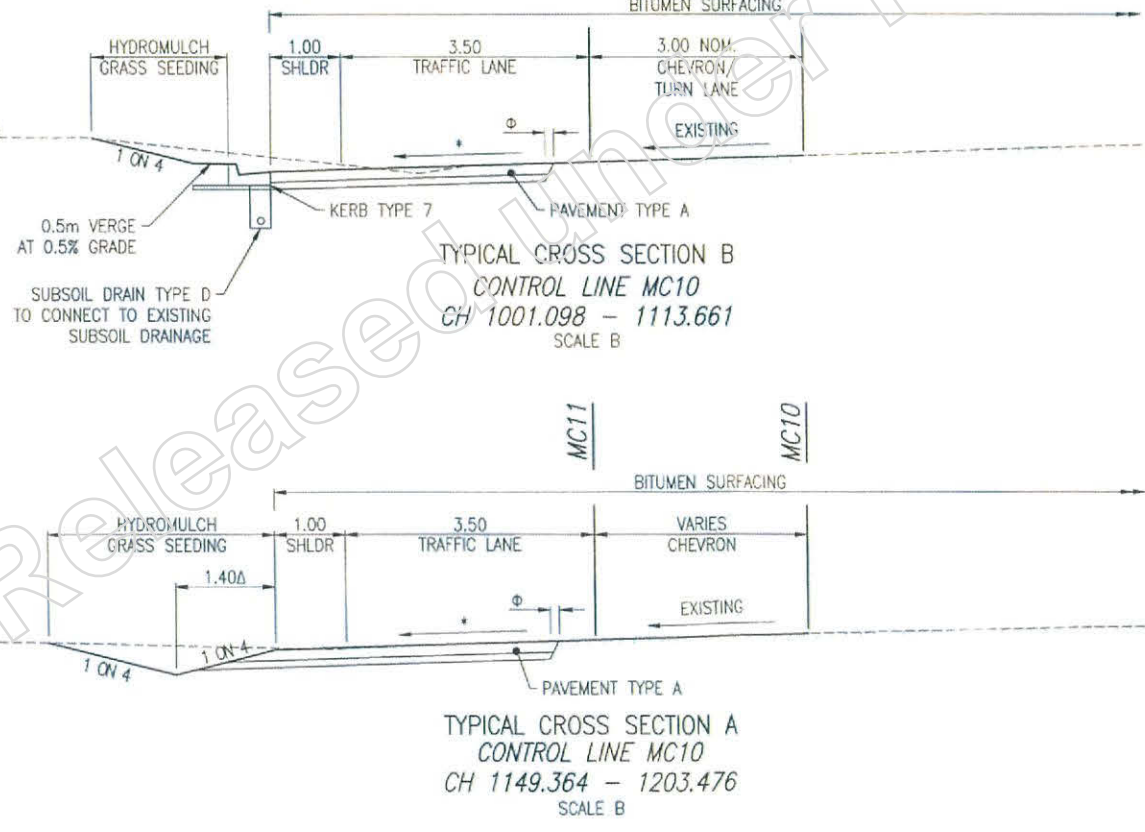
Δ 1.4m TYPICAL WIDTH VARIES FROM  
 CH1181 - END TO JOIN EXISTING

**PAVEMENT DESIGN PARAMETERS**

PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE - 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.



Associated Job Nos	Survey Data		
Datum	GDA94		
Auxiliary Drg Nos	Horiz. Grid		
	MGA94		
	Height Origin		
	AHD DERIVED		
	Survey Books		
	MR100057		
Revisions/Descriptions	Certification	Date	Microfiled

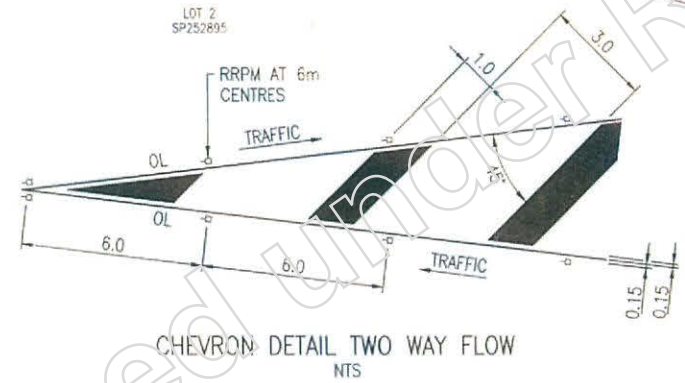
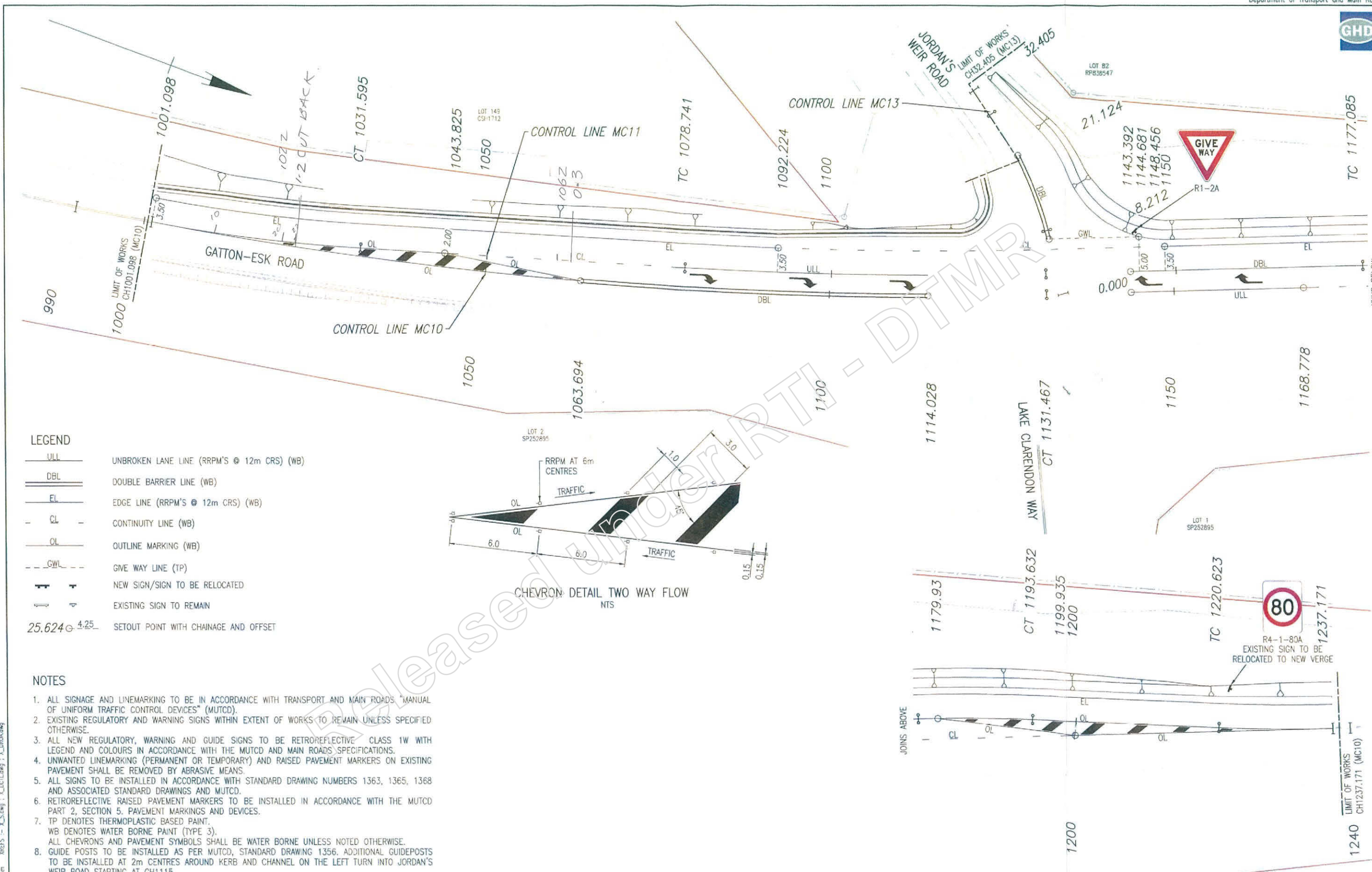
Scales	
A	0 2 4 6 8 10m
B	0 1.0 2.0m
Dimensions shown in metres except where shown otherwise	

LOCKYER VALLEY REGIONAL COUNCIL				
GATTON-ESK ROAD				
CTL CHGE 1001 - 1237				
Reference Points				
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
1A	1.0	0.24	3.66	10
Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km				

SITE 1 - LAKE CLARENDON WAY		GENERAL ARRANGEMENT	
Drawn	B DAUTH	ENGINEERING CERTIFICATION (RPEQ)	NO. DATE
Designed	N WILSON	NAME	8/11/16
		SIGNATURE	
		NR	

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650926 1A
Series Number	of
MRR_Detail (02/14)	

Last Modified: 11 Feb 24, 2016 - 2:56pm  
 IREFS: X\_Song; X\_DROKong; X\_DCLDing  
 CAD FILES: N:\AU\Towoomba\Projects\41129381\CAD01\Autocad\Drawings\01\_GA-01.dwg



**LEGEND**

- ULL UNBROKEN LANE LINE (RRPM'S @ 12m CRS) (WB)
- DBL DOUBLE BARRIER LINE (WB)
- EL EDGE LINE (RRPM'S @ 12m CRS) (WB)
- CL CONTINUITY LINE (WB)
- OL OUTLINE MARKING (WB)
- GWL GIVE WAY LINE (TP)
- NEW SIGN/SIGN TO BE RELOCATED
- EXISTING SIGN TO REMAIN
- 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

**NOTES**

1. ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
2. EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
3. ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
4. UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
5. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
6. RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5, PAVEMENT MARKINGS AND DEVICES.
7. TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
8. GUIDE POSTS TO BE INSTALLED AS PER MUTCD, STANDARD DRAWING 1356. ADDITIONAL GUIDEPOSTS TO BE INSTALLED AT 2m CENTRES AROUND KERB AND CHANNEL ON THE LEFT TURN INTO JORDAN'S WEIR ROAD STARTING AT CH1115.

Last Modified: Feb 24, 2016 10:25:10pm  
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 C:\Users\N.Wilson\Documents\Projects\160201\160201.dwg  
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Associated Job Nos		Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL				SITE 1 - LAKE CLARENDON WAY				Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650927 1A Series Number of MRR_Detail (02/14)	
Auxiliary Drg Nos		Datum GDA94		0 2 4 6 8 10m		GATTON-ESK ROAD				LINEMARKING AND SIGNAGE LAYOUT					
Revisions/Descriptions		Horiz. Grid MGA94		Height Origin AHD DERIVED		CTL CHGE 1001 - 1237				Drawn: B.DAETH Designed: N.WILSON ENGINEERING CERTIFICATION (RPEO) NAME: CIVIL M.WRIGHT SIGNATURE: [Signature] NO. 8411 DATE 1/3/16					
Date		Survey Books MR100057		Dimensions shown in metres except where shown otherwise		Reference Points Preceding RP: 1A, Dist. to start of job (km): 1.0 From start to end of job: 0.24 From end to Following RP: 3.56 Following RP: 10 Through Chainage from INTERSECTION 18A/4144, 1.0km - 1.2km									



FINAL SEAL TO BE DONE IN SEPT 2017.

K2 7  
K2 14

**Calculation/Sketch Sheet**

OVER ALL LANES.



Queensland Government

Job Title 239/4144/3 SITE 2.

Job/File No. \_\_\_\_\_

Subject \_\_\_\_\_

SITE 2 TALLARINGA ROAD  
16469.

④ Reconstruction

- NI 10
- B1 150
- B1 100
- B1 105
- A1 1

U/S	2/T	1/T	A/L	E/S
N 1.0	3.5 M	3.5 M	1.5 (R) 4	0.5 (R) 4
			A/L 3.0 (R) 4	(R) 4
			A/A 3.0 (R) 4	
				E/S 0.5
			E/S 1.0 (R) 4	F/P 4.0 (R) 4
				F/P 2.0 (R) 4
U/S	2/T	1/T	E/S	
		3.5	1.0	

5095 [5.08]

5125 [5.11]

TALLARINGA ROAD  
5201 [5.19]

5.20

5220 [5.21]

5237 [5.23]

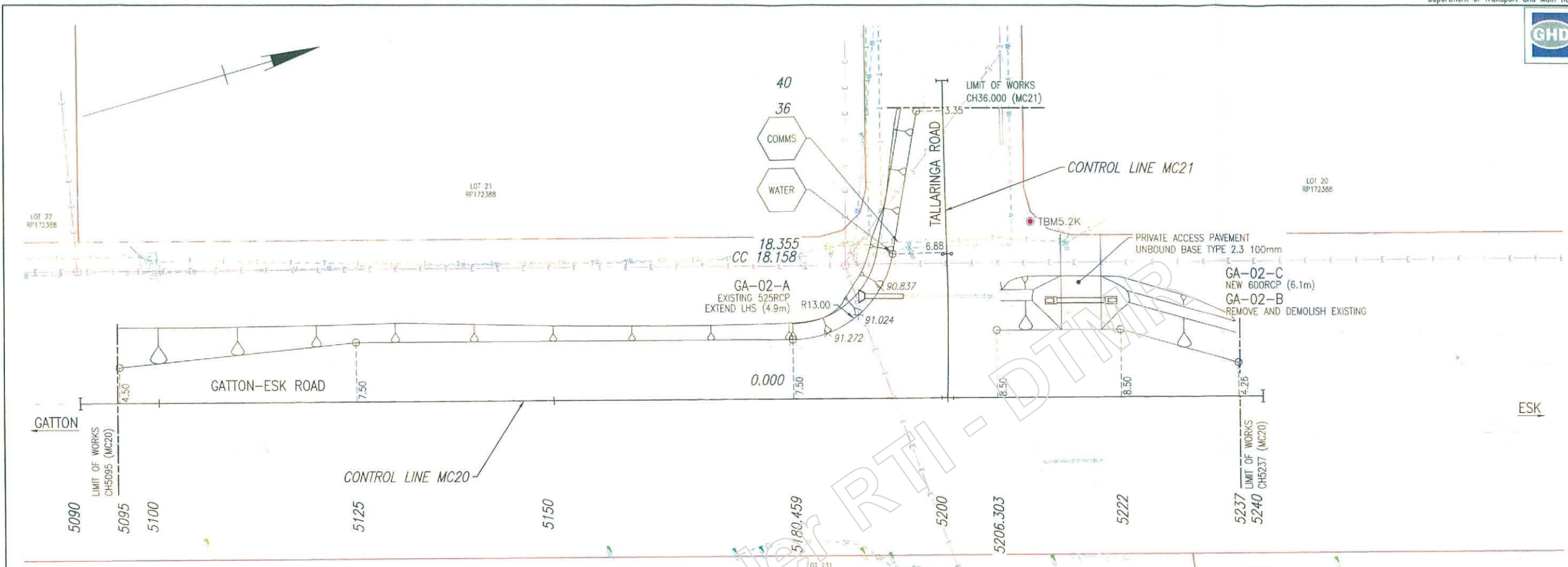
Released under RTI-DAMP

Designed by and Date / /

Verified by and Date / /

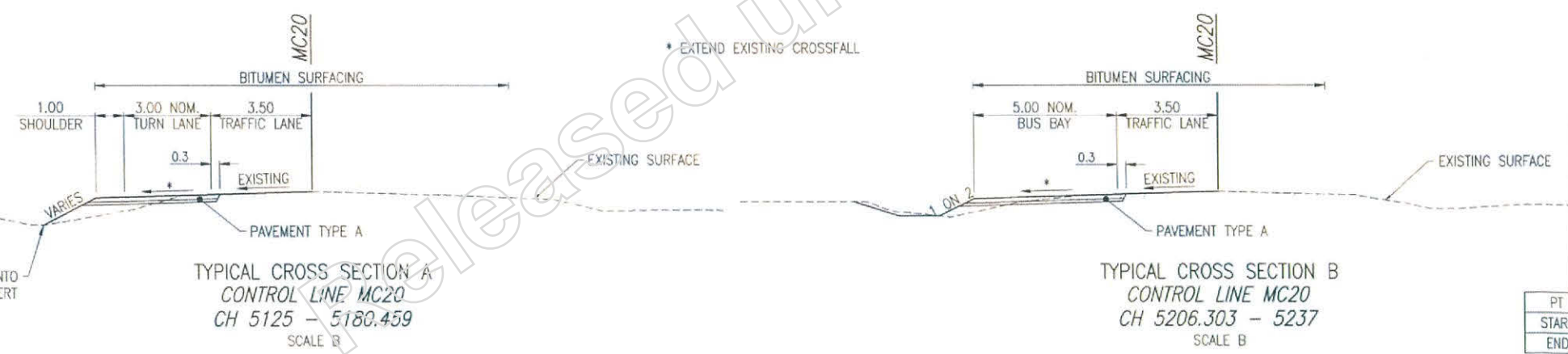
Page no.

Next Page no.



**LEGEND**  
 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET  
 x 91.272 HEIGHT AT QUARTER POINTS

**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED



**CONTROL LINE MC20**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
START	5090	433680.087	6957102.305	93.383	15°52'19.42"
END	5240	433721.11	6957246.586	90.588	15°52'19.42"

**SURVEY MARKS**

POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN67	433651.717	6957044.195	-	0.99963307	PEG
TBM5.2K	433691.786	6957224.488	90.528	0.99963345	S/PIC
PM	433753.324	6957342.553	89.990	0.99963343	STANDARD
PMB3132	433649.411	6956949.804	95.978	0.99963267	S/PIC

**CONTROL LINE MC21**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	433710.171	6957208.111	91.235	287°58'40.66"		
IP2		433701.533	6957210.914			-309.647	18.158
CC	18.158	433692.745	6957213.206	90.943	284°37'05.07"		
IP3		433682.178	6957215.962			1987	21.842
END	40	433671.641	6957218.834	91.037	285°14'52.43"		

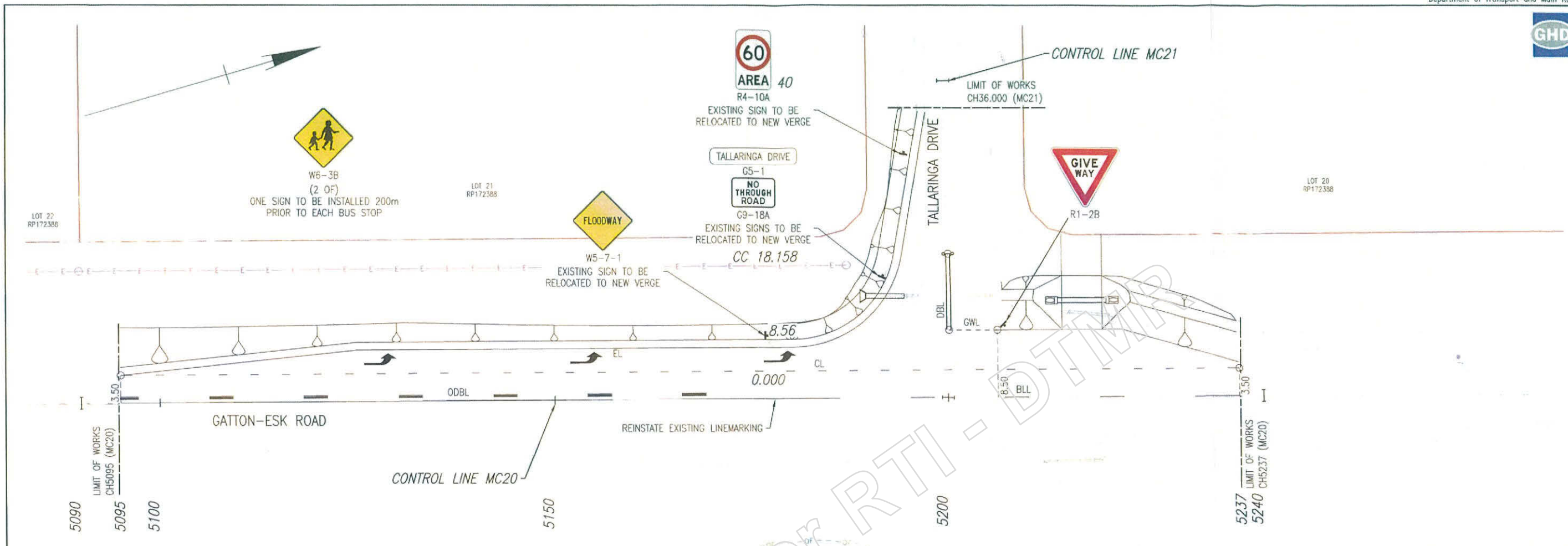
**CAUTION**  
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**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 150mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE 1
- 105mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

G M D C B A Issued For Construction	Associated Job Nos	Survey Data	Scales		LOCKYER VALLEY REGIONAL COUNCIL		SITE 2 - TALLARINGA DRIVE		Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 6509.32 A Series Number of MRR_Detail (02/14)
	Auxiliary Drg Nos	Datum: GDA94	A 0 2 4 6 8 10m		GATTON-ESK ROAD		GENERAL ARRANGEMENT		
		Horiz. Grid: MGA94	B 0 1 2 3 4m		CTL CHGE 5095 - 5237		ENGINEERING CERTIFICATION (RPEO)		
		Height Origin: AHD DERIVED	Dimensions shown in metres except where shown otherwise		Reference Points		Drawn: B. DAUTH Designed: N. WILSON Eng. Area: CIVIL Name: M. WRIGHT No.: 84411/13/16 Date: 1/3/16		
Revisions/Descriptions	Certification	Date	Microfiled	Survey Books: MR100057	Preceding RP: 1D	Dist. to start of job (km): 0.20	From start to end of job: 0.14	From end to Following RP: 3.08	Following RP: 2
CAD FILES: N:\AU\toowomba\Projects\4129381\CAD\AutoCAD\Drawings\02_GA-01.dwg					Through Chainage from INTERSECTION 18A/4144, 5.1km - 5.2km				



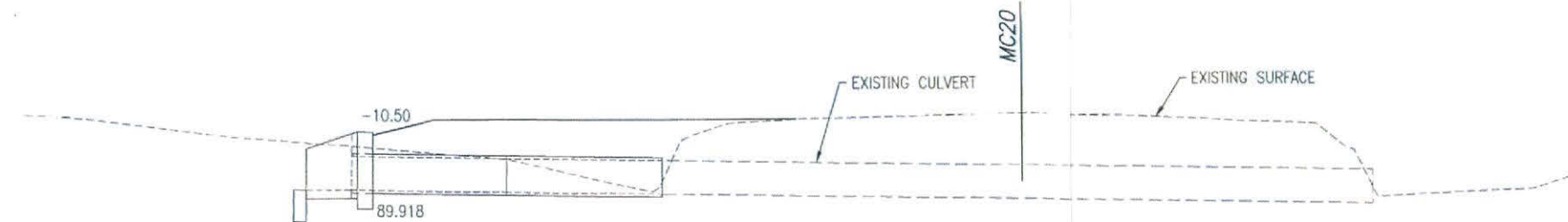
- LEGEND**
- DBL DOUBLE BARRIER LINE (WB)
  - ODBL BARRIER LINE - ONE DIRECTION (WB)
  - BDL DIVIDING LINE (WB)
  - EL EDGE LINE (WB)
  - CL CONTINUITY LINE (WB)
  - GWL GIVE WAY LINE (TP)
  - NEW SIGN/SIGN TO BE RELOCATED
  - EXISTING SIGN TO REMAIN
  - 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

- NOTES**
1. ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  2. EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  3. ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  4. UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  5. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  6. RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  7. TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  8. GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

**GA-02-C**  
 600 RCP (6.1m) L OF CH5219  
 UNDER PRIVATE ACCESS  
 INLET 12.2m L OF CH5215.8 HT89.812  
 OUTLET 12.2m L OF CH522.19 HT89.705  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.2m<sup>3</sup>

**GA-02-B**  
 EXISTING 600 RCP  
 REMOVE AND DEMOLISH

**GA-02-A**  
 525 RCP (LENGTHEN 4.90m LHS)  
 (CLASS 2 RRJ) CHAINAGE 12.771 (MC21)  
 ENDWALLS: PRECAST FULL BASE  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.2m<sup>3</sup>



Feb 24, 2016 - 2:58pm XREFS :- X\_Scale :- X\_DWG.dwg :- X\_DTL.dwg  
 CAD FILES :- N:\AU\Toowoomba\Projects\41129281\CAD\AutoCAD\Drawings\02\_SI-01.dwg

Associated Job Nos		Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL		SITE 2 - TALLARINGA DRIVE				Queensland Government Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650933   A Series Number of	
Auxiliary Drg Nos		Datum GDA94		0 2 4 6 8 10m		GATTON-ESK ROAD		LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS					
Heriz. Grid MGA94		Height Origin AHD DERIVED		Dimensions shown in metres except where shown otherwise		CTL CHGE 5095 - 5237		Reference Points		ENGINEERING CERTIFICATION (RPEQ)		Drawn B.DAULTH Designed M.WRIGHT N.WILSON	
Survey Books MR100057		Preceding RP 1D		Dist. to start of job (km) 0.20		From start to end of job 0.14		From end to Following RP 3.06		Following RP 2		NO. 8411/13/16 DATE 1/3/16	

Calculation/Sketch Sheet

K27  
K214



Queensland Government

OVER ALL LANES.

Job Title 239/4144/3 Job/File No. \_\_\_\_\_

Subject SITE 3. KRUGERS ROAD. 16470

5) Reconstruction

- NI 10
- BI 150
- BI 100
- BI 155
- AI 1

U/S	2T	1T	E/S
1.0 (R) S	3.5 (R) S	3.5 (R) S	1.0 (R) S
			2.5 E/S (R) S
U/S	3.5	3.5	E/S 2.5
U/S 2.5 (R) S			1.0 E/S (R) S
U/S	3.5	3.5	1.0
5.0 (R) S			4.0 F/P 2.0 (R) S
U/S 5.0			
(R) S			
U/S 2.5	2T 3.5	1T 3.5	E/S 1.2

9155 [9.19]

9180 [9.21]

KRUGERS RD  
9230 [9.26]

9236.516. [9.27]

9252. [9.28]

9267 [9.30]

9292. [9.32]

Designed by  
and Date

1.2 30  
/ /

Verified by  
and Date

/ /

Page  
no.

Next  
Page no.



**CONTROL LINE MC30**

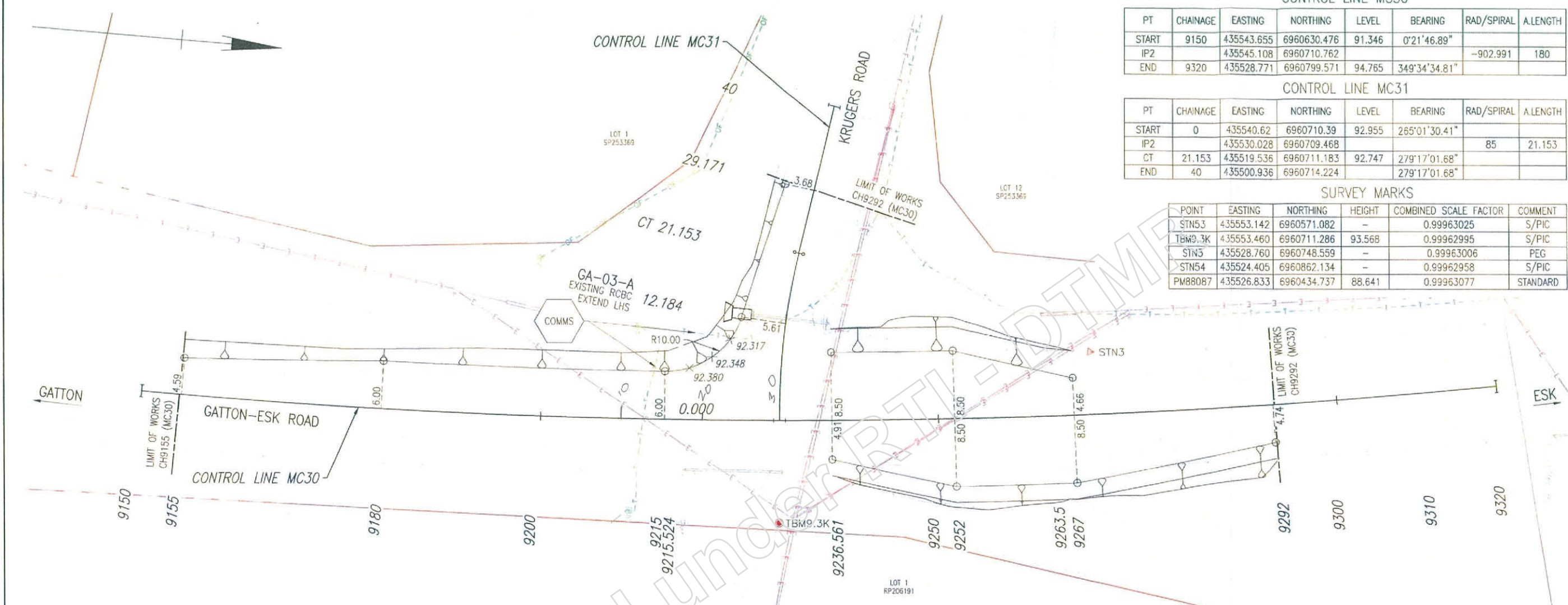
PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	9150	435543.655	6960630.476	91.346	0°21'46.89"		
IP2		435545.108	6960710.762			-902.991	180
END	9320	435528.771	6960799.571	94.765	349°34'34.81"		

**CONTROL LINE MC31**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	0	435540.62	6960710.39	92.955	265°01'30.41"		
IP2		435530.028	6960709.468			85	21.153
CT	21.153	435519.536	6960711.183	92.747	279°17'01.68"		
END	40	435500.936	6960714.224		279°17'01.68"		

**SURVEY MARKS**

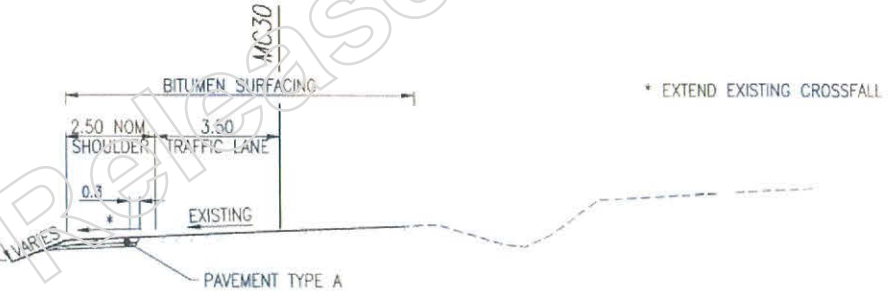
POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN53	435553.142	6960571.082	-	0.99963025	S/PIC
TBM9.3K	435553.460	6960711.286	93.568	0.99962995	S/PIC
STN3	435528.760	6960748.559	-	0.99963006	PEG
STN54	435524.405	6960862.134	-	0.99962958	S/PIC
PM88087	435526.833	6960434.737	88.641	0.99963077	STANDARD



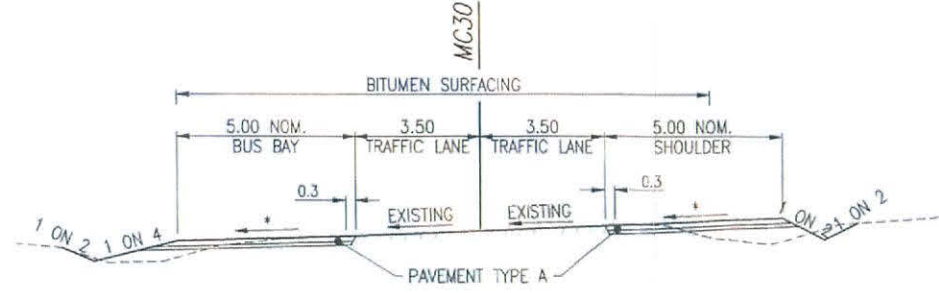
**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 150mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE 1
- 155mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.



TYPICAL CROSS SECTION A  
CONTROL LINE MC30  
CH 9160 - 9220 (LHS)  
SCALE B



TYPICAL CROSS SECTION B  
CONTROL LINE MC30  
CH 9236.560 - 9267 (LHS)  
CH 9236 - 9292 (RHS)  
SCALE B

**LEGEND**

25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

x 91.272 HEIGHT AT QUARTER POINTS

**PAVEMENT DESIGN PARAMETERS**

PAVEMENT DESIGN COMPLETED BY TMR.  
DESIGN LIFE = 20 YEARS  
DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
DESIGN SUBGRADE CBR = 15 SOAKED

**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

Revisions/Descriptions	Certification	Date	Microfiled

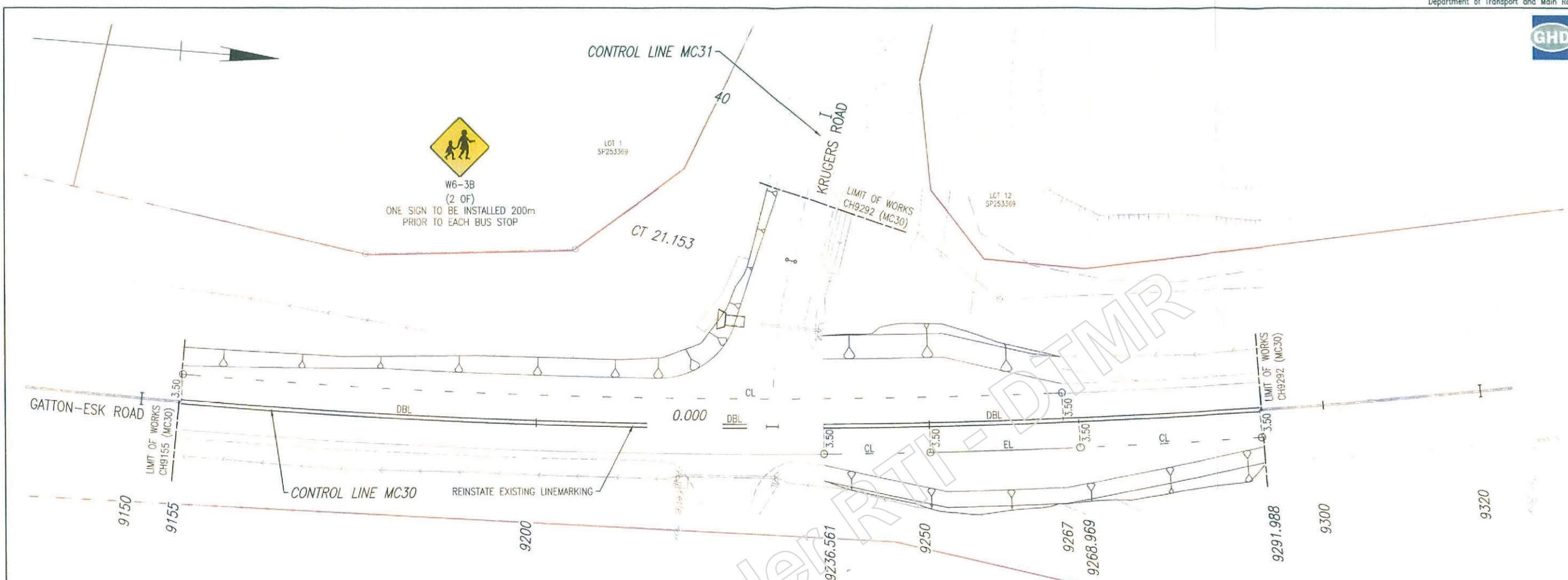
Associated Job Nos	Survey Data
	Datum: GDA94
	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057

LOCKYER VALLEY REGIONAL COUNCIL			
GATTON-ESK ROAD			
CTL CHGE 9155 - 9292			
Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP
2	0.84	0.12	8.48
Through Chainage from INTERSECTION 18A/4144, 9.2km - 9.3km			

SITE 3 - KRUGERS ROAD GENERAL ARRANGEMENT			
ENGINEERING CERTIFICATION (RPED)			
Drawn	ENG. AREA	NAME	NR
B. DAUTH	CIVIL	M. WRIGHT	
Designed			
N. WILSON			

Queensland Government	
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650937 1A
Series Number	

last Modified: Feb 24, 2016 - 2:58pm  
 ARKES: X:\S\eng\1\_X\000A\dwg\1\_X\001.dwg  
 CAD FILES: N:\AU\Toowoomba\Projects\41\29381\CADD\Autocad\Drawings\03\_CA-01.dwg



**LEGEND**

- DBL DOUBLE BARRIER LINE (WB)
- EL EDGE LINE (RRPM'S @ 12m CRS) (WB)
- CL CONTINUITY LINE (WB)
- EXISTING SIGN TO REMAIN
- 25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

**NOTES**

1. ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
2. EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
3. ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
4. UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
5. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
6. RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
7. TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
8. GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

**GA-03-A**  
 1200x450 RCBC (LENGTHEN 2.40m LHS)  
 (CLASS 2 RRJ) CHAINAGE 12.948  
 ENDWALLS: PRECAST  
 STANDARD DRAWING - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.3m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.4m<sup>3</sup>

Last Modified: Feb 24, 2016 - 2:58pm XREFS: X:\S:\eng\X\DRG\Krugers\K\_DTL.dwg  
 X:\S:\eng\X\DRG\Krugers\K\_DTL.dwg

Associated Job Nos		Survey Data		Scales		LOCKYER VALLEY REGIONAL COUNCIL				SITE 3 - KRUGERS ROAD				Queensland Government	
Auxiliary Drg Nos		Datum		0 2 4 6 8 10m		GATTON-ESK ROAD				LINEMARKING, SIGNAGE, AND DRAINAGE DETAILS				Job No. 239/4144/2	
		GDA94				CTL CHGE 9155 - 9310				ENGINEERING CERTIFICATION (RPEO)				Contract No. DDWD-88	
		Horiz. Grid				Reference Points				Drawn				Drawing No. 6509.38 1A	
		MGA94				Preceding RP				B.DAETH				Series Number of	
		AHD DERIVED				Dist. to start of job (km)				DESIGNED				MRR_Detail (02/14)	
		MR100057		Dimensions shown in metres except where shown otherwise		From end of job to Following RP				CIVIL M.WRIGHT					
						Through Chainage from INTERSECTION 18A/4144, 9.2km - 9.3km				N.WILSON					
										NO. DATE					
										1/3/16					

FINAL SEAL TO BE DONE IN SEPT 2017

K27  
K214

# Calculation/Sketch Sheet

OVER ALL LANES.



Queensland Government

Job Title 239/4144/3

Job/File No. 9230 (9.26)

Subject SITE 4 WIDENING.

3.10 x 10<sup>16</sup>

V/S	2/T	1/T	E/S
1.0	3.5	3.5	1.0
$R_6$	$R_6$	$R_6$	$R_6$

9650.

9468

Reconstruction

NI 10  
 BI 100  
 BI 250  
 AI 1

224

Released Under RTI - DTMR

$R_6$	$R_6$	$R_6$	$R_6$
V/S	2/T	1/T	E/S
1.0	3.5	3.5	1.0

9978.49

10.00

Designed by and Date

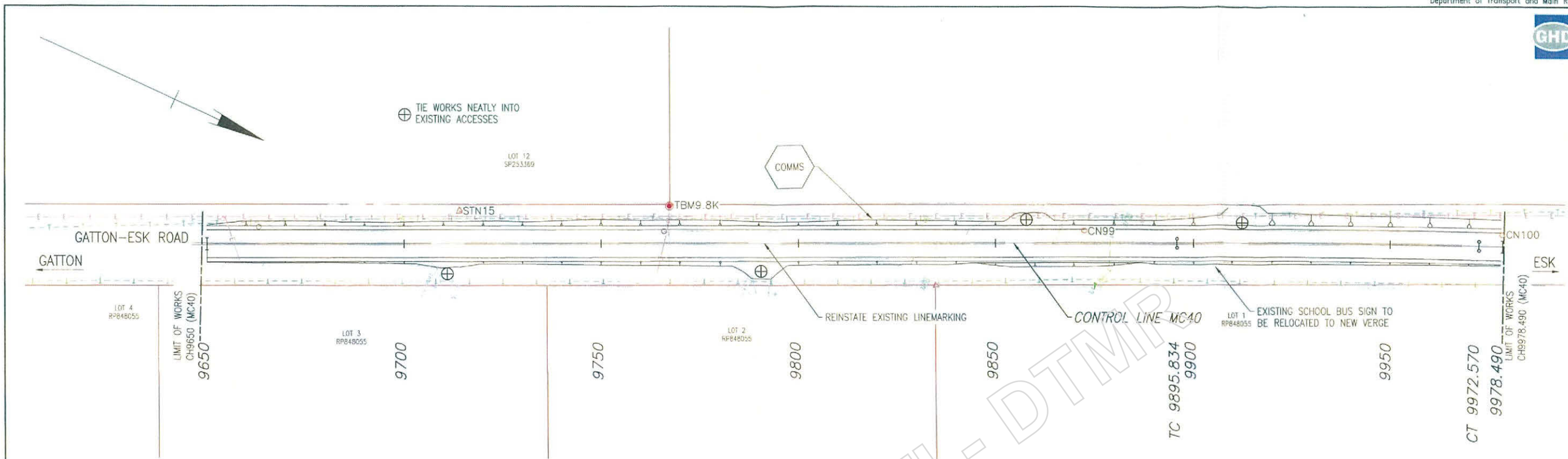
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Verified by and Date

/ /

Page no.

Next Page no.

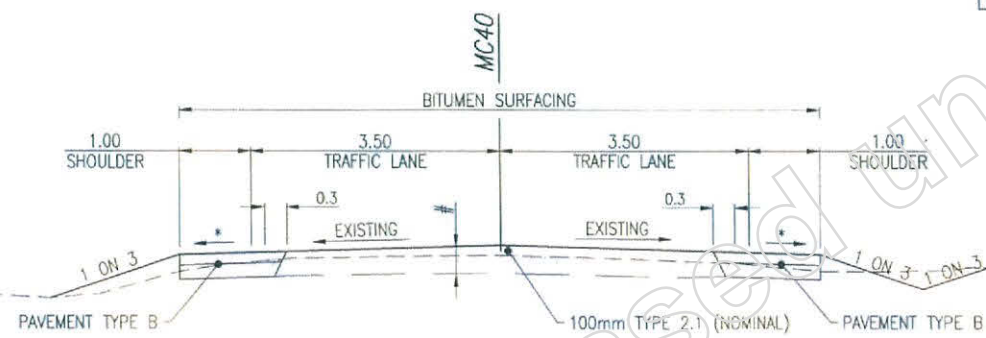


SURVEY MARKS

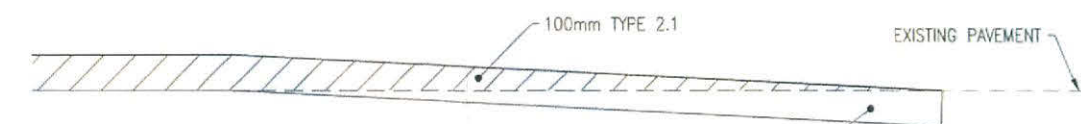
POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN15	435384.917	6961160.270	-	0.99962887	PEG
TBM9.8K	435361.660	6961205.272	102.958	0.99962878	S/PIC
CN99	435323.604	6961306.573	-	0.99962863	NAIL
CN100	435280.769	6961403.283	-	0.99962851	NAIL
PM37443	435259.560	6961433.845	105.497	0.99962854	STANDARD

CONTROL LINE MC40

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A-LENGTH
START	9650	435419.033	6961105.519	101.161	335°24'31.29"		
TC	9895.834	435316.73	6961329.056	104.67	335°24'31.29"		
IP2		435300.763	6961363.946			3000	76.736
CT	9972.57	435285.693	6961399.233	105.332	336°52'27.26"		
END	9978.49	435283.368	6961404.677	105.373	336°52'27.26"		



TYPICAL CROSS SECTION CONTROL LINE MC40 CH 9650 - 9970 SCALE B



RAMPED PAVEMENT JOINT DETAIL CH 9650 - 9689.5 CH 9939.6 - 9978.5 N.T.S

- PAVEMENT TYPE B**
- 7mm SEAL BITUMEN CLASS 0.75 (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.75 (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (FULL WIDTH)
  - 100mm TYPE 2.1 UNBOUND BASE
  - 250mm TYPE 2.3 UNBOUND SUBBASE

\*EXTEND EXISTING CROSSFALL  
#EXISTING BITUMEN SEAL TO BE SCARIFIED AND TOP 250mm TO BE MECHANICAL STABILISED

**PAVEMENT DESIGN PARAMETERS**

PAVEMENT DESIGN COMPLETED BY TMR.  
DESIGN LIFE = 20 YEARS  
DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
DESIGN SUBGRADE CBR = 15 SOAKED

**CAUTION**  
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

Last Modified: Feb 24, 2016 4:40pm REFS: X\_S.dwg; X\_DCTL.dwg; X\_DRAWING

Associated Job Nos Survey Data Datum: GDA94 Horiz. Grid: MGA94 Height Origin: AHD DERIVED Survey Books: MR100057		Scales A: 0 5 10 15 20m B: 0 1.0 2.0m Dimensions shown in metres except where shown otherwise		LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 9650 - 9978 Reference Points: Preceding RP: 2, Dist. to start of job (km): 1.33, From start to end of job: 0.33, From end to Following RP: 7.79, Following RP: 4 Through Chainage from INTERSECTION 18A/4144, 9.7km - 10km		SITE 4 - WIDENING AND OVERLAY GENERAL ARRANGEMENT Drawn: B.DAITH Designed: N.WILSON ENGINEERING CERTIFICATION (RPEO) NAME: CIVIL M.WRIGHT NO.: NR DATE: 8/11/16		Queensland Government Job No.: 239/4144/2 Contract No.: DDWD-88 Drawing No.: 650942 1A Series Number: of MRR_Detol (02/14)	
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## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Government Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Layer Type		All
Start Distance	9.68	
End Distance	10	
Report As At	10-APR-2017	

Released under RTI - DTMR

## Road Inventory System Layer Details Report

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane 1            X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	1.360	1.110	239					3	9.680	10.790	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	05-DEC-1991
											3	KU	Spray Seal - Quality Unknown	20	30-SEP-1983
											4	KU	Spray Seal - Quality Unknown	20	23-MAY-1973
											5	BU	Granular - Quality Unknown	100	23-MAY-1973
											6	AU	Subgrade - Quality Unknown	1	23-MAY-1973

Carriageway 1        Lane 2            X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	1.360	1.110	239					3	9.680	10.790	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	05-DEC-1991
											3	KU	Spray Seal - Quality Unknown	20	30-SEP-1983
											4	KU	Spray Seal - Quality Unknown	20	23-MAY-1973
											5	BU	Granular - Quality Unknown	100	23-MAY-1973
											6	AU	Subgrade - Quality Unknown	1	23-MAY-1973

Released under RTI/DMR

**Road Inventory System**  
**Layer Details Report**

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane E            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	1.360	1.110	239					1.2	9.680	10.790	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	100	23-MAY-1973
											3	AU	Subgrade - Quality Unknown	1	23-MAY-1973

Carriageway 1        Lane U            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	1.360	1.110	239					1.2	9.680	10.790	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	100	23-MAY-1973
											3	AU	Subgrade - Quality Unknown	1	23-MAY-1973

Released under RTI - DTMR

# Calculation/Sketch Sheet

Job Title 239/4144/3.

Job/File No. \_\_\_\_\_

Subject SITE 5.

**⑦ Reconstruction**

3.10 x 10<sup>16</sup> 224

NI	10
B1	150
B1	100
B1	60
A1	1

U/S	2/T	4/T	E/S
1.0 (M)	3.5 (M)	M/M. 1.5 (R) 8	3.5 (M) 1.0 (R) 7
		L/R 1.5 (R) 8 L/R. 3.0	
		M/M. 3.0 (R) 8	
		1.5 M/M (R) 8	
			M 1/T
U/S	2/T	M/M 1.5	3.5 1/T E/S 1.0

11167.001 [11.20]

11200 [11.23]

11230.035 [11.26]

**⑧ Reconstruction**

unknown 224

NI	10	
KI	10	7-JUN-1999
KU	20	3-MAY-1989
KU	20	1-JAN-1979
BU	75	"
BU	75	"
AU	1	"

11260. [11.29]

KELLY ROAD.

[11.38] 11350

FP. 11362 [11.39]

11365.055. [11.40]

11387 [11.42]

11402 [11.43]

11417 [11.45]

11439 [11.47]

11460.118. [11.49]

Designed by and Date / /

Verified by and Date / /

Page no.

Next Page no.

## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Start Distance	11.200	
End Distance	11.490	
Report As At	10-APR-2017	

Released under RTI - DTMR

## Road Inventory System Data Sheet Report

District           3 SOUTHERN DISTRICT  
 Owner            MR DEPARTMENT OF MAIN ROADS  
 Road Section    4144/C GATTON-ESK ROAD, GATTON-ESK ROAD

Cway	Lane	XEL Type	Start RP	Offset	Length	LGA	FC	SLC	CLC	Seal Width	Pave Width	Lane Width	Design ESA	Surf Type	Pave Type	Lane Type	Seal Area	Tdist Start	Tdist End
1	1	T	2	2.470	1.370	239	3	04	43	3	3	3	unknown	2	2	4	4,110	10.790	12.160
	2	T	2	2.470	1.370	239	3	04	43	3	3	3	unknown	2	2	4	4,110	10.790	12.160
	E	S	2	2.470	1.370	239	3	04	43	.3	1.2	1.2	unknown	2	2	4	411	10.790	12.160
	U	S	2	2.470	1.370	239	3	04	43	.3	1.2	1.2	unknown	2	2	4	411	10.790	12.160
Seal Area for Carriageway:														1		9,042			

Released under RTI - DTMR

## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Government Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Layer Type		All
Start Distance	11.2	
End Distance	11.49	
Report As At	10-APR-2017	

Released under RTI - DTMR

Road Inventory System  
Layer Details Report

District 3 SOUTHERN DISTRICT  
 Owner MR DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1 Lane 1 X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	2.470	1.370	239					3	10.790	12.160	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Carriageway 1 Lane 2 X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	2.470	1.370	239					3	10.790	12.160	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979



## Road Inventory System Layer Details Report

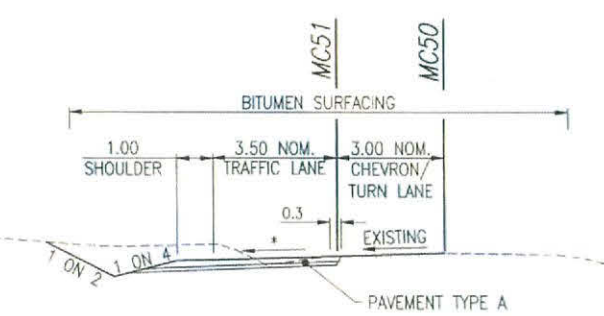
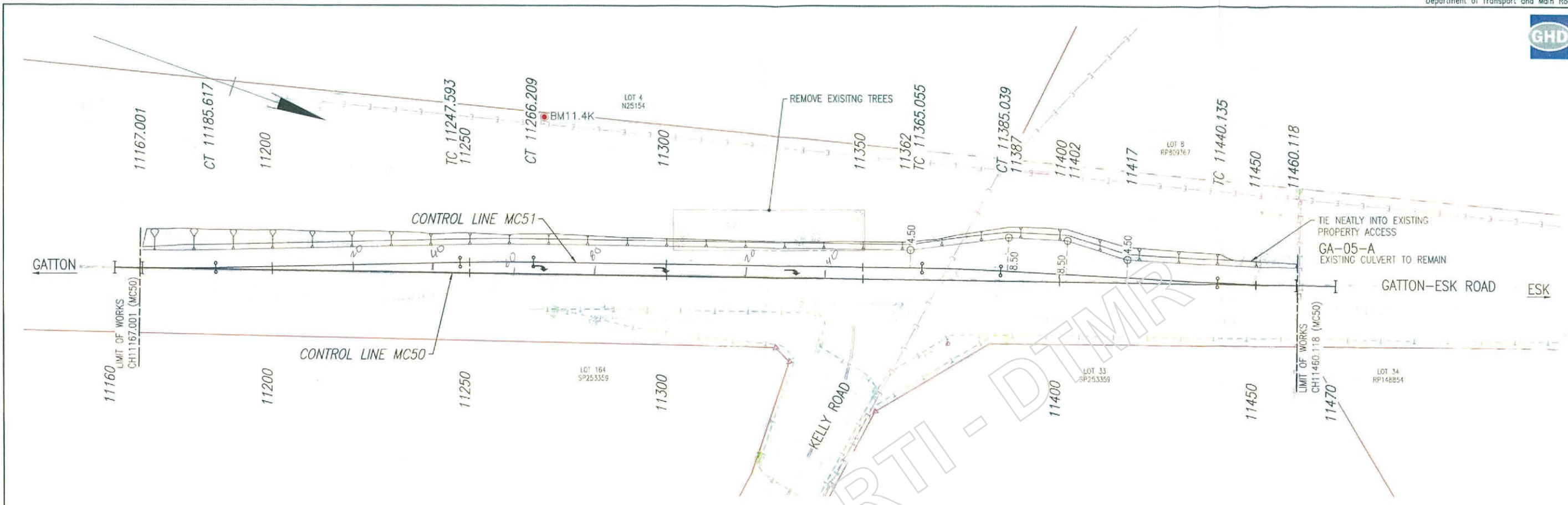
District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane E            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	2.470	1.370	239					1.2	10.790	12.160	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

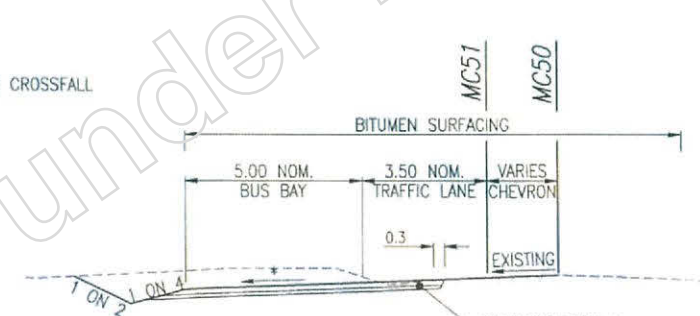
Carriageway 1        Lane U            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	2.470	1.370	239					1.2	10.790	12.160	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Released under RTI - QTMR



TYPICAL CROSS SECTION A  
CONTROL LINE MC50  
CH 11167 - 11362  
CH 11417 - 11460.118  
SCALE B



TYPICAL CROSS SECTION B  
CONTROL LINE MC50  
CH 11362 - 11417  
SCALE B

LEGEND  
25.624 @ 4.25 SETOUT POINT WITH CHAINAGE AND OFFSET

- PAVEMENT TYPE A**
- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
  - 150mm TYPE 2.1 UNBOUND BASE
  - 100mm TYPE 2.3 UNBOUND SUBBASE 1
  - 60mm TYPE 2.3 UNBOUND SUBBASE 2 (PROVISIONAL, IF ORDERED)
- NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

**CAUTION**  
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

**PAVEMENT DESIGN PARAMETERS**  
PAVEMENT DESIGN COMPLETED BY TMR.  
DESIGN LIFE = 20 YEARS  
DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
DESIGN SUBGRADE CBR = 15 SOAKED

**SURVEY MARKS**

POINT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
BM11.4K	434822.060	6962618.739	113.486	0.99962798	S/PIC
BM12K	434678.482	6963234.424	123.768	0.99962659	S/PIC
TBM11.8K	434718.145	6963034.538	120.688	0.99962701	S/PIC

**CONTROL LINE MC50**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING
START	11160	434894.477	6962528.747	111.066	341°12'47.83"
END	11470	434794.642	6962822.232	117.859	341°12'47.83"

**CONTROL LINE MC51**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	11167.001	434892.222	6962535.376	111.215	341°12'47.83"		
IP2		434889.224	6962544.189			-500	18.616
CT	11185.617	434885.9	6962552.884	111.614	339°04'48.16"		
TC	11247.593	434863.771	6962610.775	112.989	339°04'48.16"		
IP3		434860.447	6962619.47			500	18.616
CT	11266.209	434857.449	6962628.283	113.422	341°12'47.83"		
TC	11365.055	434825.616	6962721.863	115.658	341°12'47.83"		
IP4		434822.398	6962731.324			500	19.983
CT	11385.039	434819.56	6962740.905	116.123	343°30'11.56"		
TC	11440.135	434803.915	6962793.734	117.312	343°30'11.56"		
IP5		434801.077	6962803.315			-500	19.983
END	11460.118	434797.859	6962812.776	117.693	341°12'47.83"		

last Modified: Feb 24, 2016 - 2:59pm  
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Revisions/Descriptions	Certification	Date	Microfiled
A Issued For Construction			

Associated Job Nos	Survey Data
	Datum: GDA94
Auxiliary Drg Nos	Horiz. Grid: MGA94
	Height Origin: AHD DERIVED
	Survey Books: MR100057

**LOCKYER VALLEY REGIONAL COUNCIL**  
**GATTON-ESK ROAD**  
**CTL CHGE 11167 - 11460.118**

Preceding RP	Dist. to start of job (km)	From start to end of job	From end to Following RP	Following RP
2	2.85	0.29	6.30	4

Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km

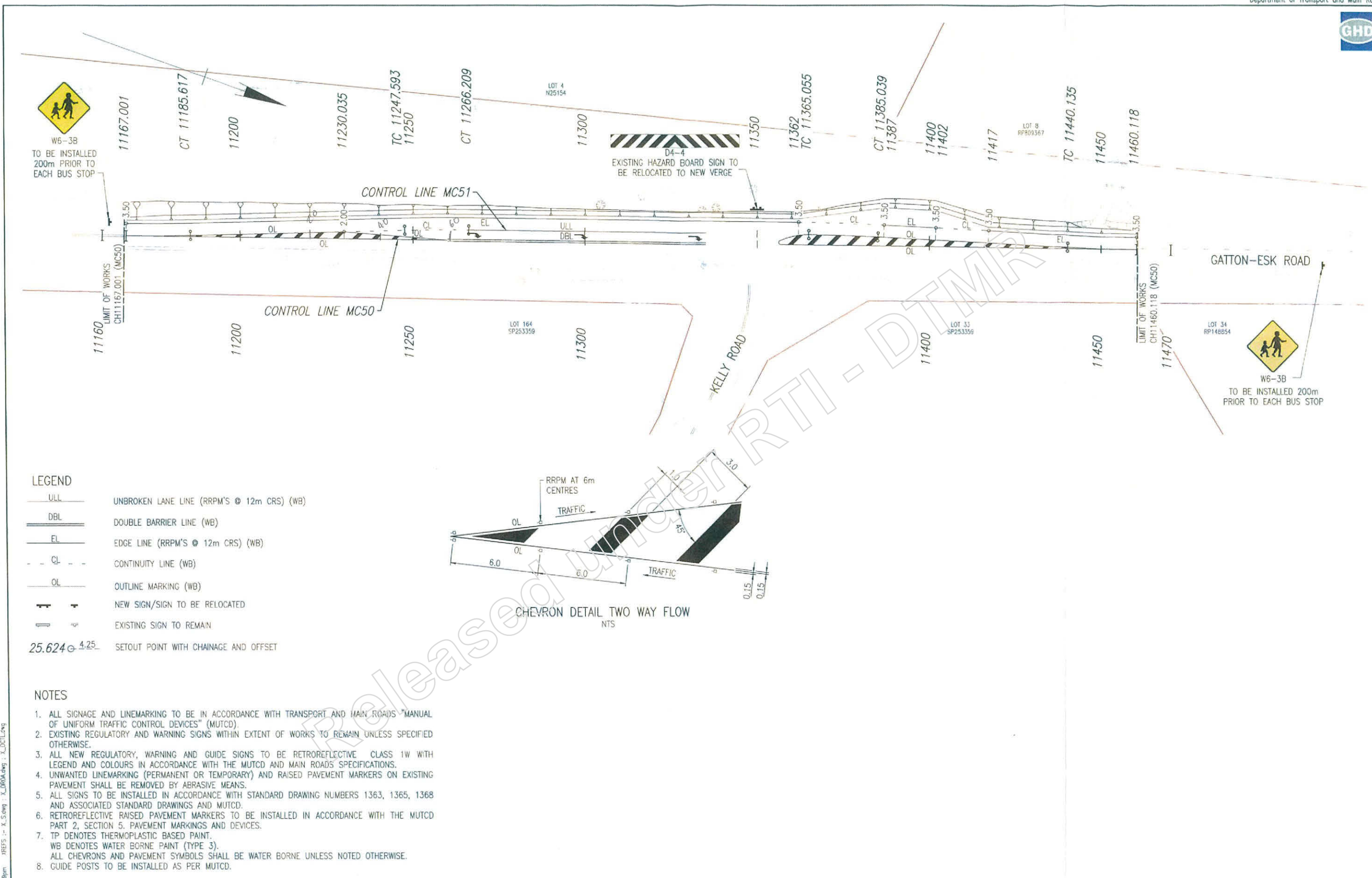
**SITE 5 - KELLY ROAD GENERAL ARRANGEMENT**

ENG. AREA	NAME	NO.	DATE
CIVIL	M.WRIGHT	NR	8/11/13

**Queensland Government**

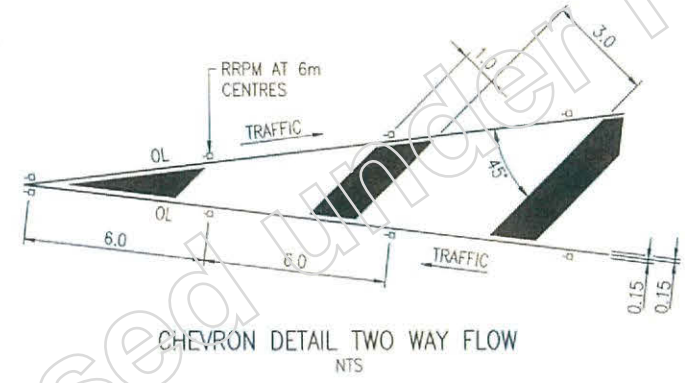
Job No.	239/4144/2
Contract No.	DDWD-88
Drawing No.	650946 1A
Series Number	of

MRR\_Detail (02/14)



**LEGEND**

	UNBROKEN LANE LINE (RRPM'S @ 12m CRS) (WB)
	DOUBLE BARRIER LINE (WB)
	EDGE LINE (RRPM'S @ 12m CRS) (WB)
	CONTINUITY LINE (WB)
	OUTLINE MARKING (WB)
	NEW SIGN/SIGN TO BE RELOCATED
	EXISTING SIGN TO REMAIN
	SETOUT POINT WITH CHAINAGE AND OFFSET



- NOTES**
- ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  - EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  - ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  - UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  - ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  - RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5. PAVEMENT MARKINGS AND DEVICES.
  - TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  - GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

G M D C B A Issued For Construction	Associated Job Nos	Survey Data	Scales 0 5 10 15 20m Dimensions shown in metres except where shown otherwise	LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 11167 - 11460.118			SITE 5 - KELLY ROAD LINEMARKING AND SIGNAGE			Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650947 A Series Number of	
	Auxiliary Drg Nos	Datum GDA94 Horiz. Grid MGA94 Height Origin AHD DERIVED		Preceding RP 2 Dist. to start of job (km) 2.85 From start to end of job 0.29 From end to Following RP 6.30 Following RP 4	Drawn B.DAULTH Designed N.W.LSON	ENGINEERING CERTIFICATION (RPEO) ENG. AREA NAME CIVIL M.WRIGHT NO. NR DATE 8/11/2016					
	Revisions/Descriptions	Certification		Date	Microfilmed	Through Chainage from INTERSECTION 18A/4144, 11.2km - 11.5km			Signature		
	CAD FILES	N:\AU\Townscorba\Projects\41129381\CADD\Autocad\Drawings\05_SL-01.dwg						WGR_Detail (02/14)			

# Calculation/Sketch Sheet



Job Title 239/4144/3

Job/File No. \_\_\_\_\_

Subject SITE 6

	U/S	Yr	Yr	E/S
<u>(9) Reconstruction</u>	1.0	3.5	3.5	1.0
$3.40 \times 10^6$	R <sub>9</sub>	R <sub>9</sub>	R <sub>9</sub>	R <sub>9</sub>
224				
N1 10				
B1 150				
B1 170				
A1 1				

12350

[12.36]

Released Under RTI - DTMR

13040.

[13.05]

Designed by and Date / /

Verified by and Date / /

Page no.

Next Page no.

## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Government Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Layer Type		All
Start Distance	12.36	
End Distance	13.05	
Report As At	10-APR-2017	

Road Inventory System  
Layer Details Report

District 3 SOUTHERN DISTRICT  
 Owner MR DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1 Lane 1 X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					3	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Carriageway 1 Lane 2 X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					3	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979

## Road Inventory System Layer Details Report

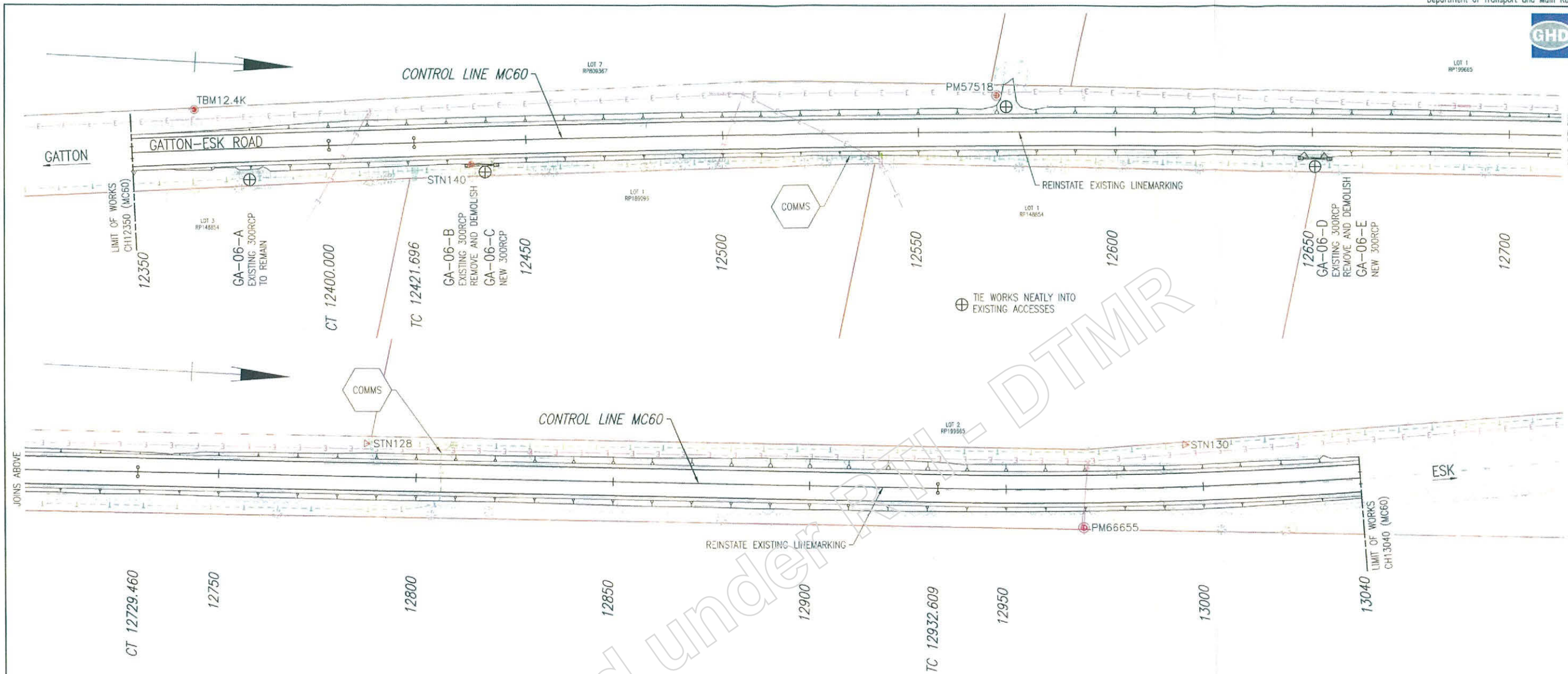
District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane E            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					1.2	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Carriageway 1        Lane U            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					1.2	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Released under RTI 2011/01111

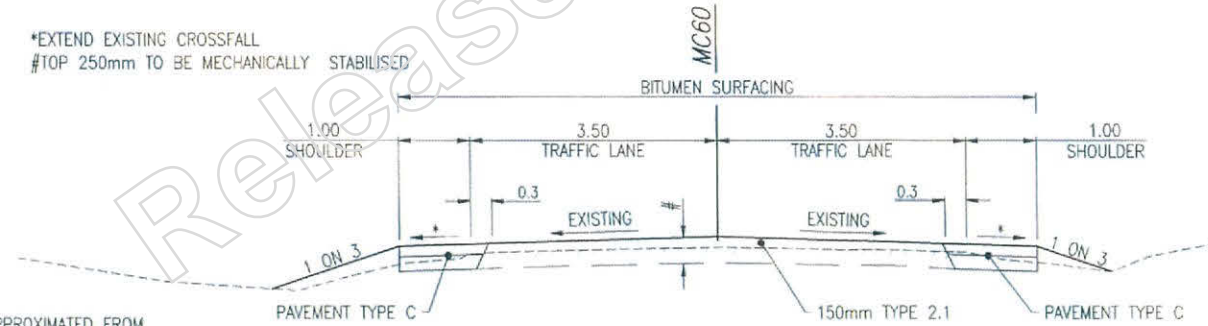


**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC =  $3.10 \times 10^6$  ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

- PAVEMENT TYPE C**
- 7mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 14mm SEAL BITUMEN CLASS 0.7S (FULL WIDTH)
  - 10mm PRIMERSEAL AMC4 (FULL WIDTH)
  - 150mm TYPE 2.1 UNBOUND BASE
  - 170mm TYPE 2.3 UNBOUND SUBBASE 1

**CAUTION**  
 THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLES AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.

\*EXTEND EXISTING CROSSFALL  
 #TOP 250mm TO BE MECHANICALLY STABILISED



**SURVEY MARKS**

PT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
TBM12.4K	434638.757	6963628.948	128.251	0.99962595	S/PIC
STN140	434348.327	6965218.266	-	0.99962311	S/PIC
PM57518	434624.692	6963832.602	129.294	0.99962581	STANDARD
STN128	434616.649	6964050.005	-	0.99962552	PEG
PM66655	434628.582	6964233.005	135.120	0.99962488	S/PIC
STN130	434606.257	6964257.737	-	0.99962485	PEG

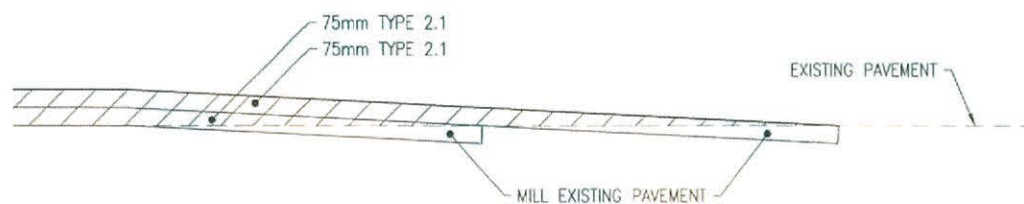
**CONTROL LINE MC60**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	12350	434650.43	6963613.842	127.985	354°30'37.88"		
IP2		434648.039	6963638.728			3675.486	50
CT	12400	434645.986	6963663.644	128.594	355°17'23.84"		
TC	12421.696	434644.205	6963685.266	128.817	355°17'23.84"		
IP3		434631.566	6963838.662			6000	307.764
CT	12729.46	434626.809	6963992.504	130.404	358°13'43.99"		
TC	12932.609	434620.53	6964195.557	134.243	358°13'43.99"		
IP4		434618.87	6964249.263			-1200	107.391
END	13040	434612.416	6964302.805	136.446	353°06'04.91"		

last Modified: Feb 24, 2016 - 3:03pm XREFS: X\_Scales: X\_DDTL.dwg: X\_DRAW.dwg  
 CAD FILES: N:\AU\Toowoomba\Projects\4129381\CADD\Autocad\Drawings\06\_GA-01.dwg

Associated Job Nos				Survey Data		Scales			LOCKYER VALLEY REGIONAL COUNCIL				SITE 6 - WIDENING AND OVERLAY GENERAL ARRANGEMENT					
Auxiliary Drg Nos				Datum: GDA94		A 0 5 10 15 20m			GATTON-ESK ROAD				Job No. 239/4144/2				Contract No. DDWD-88	
				Horiz. Grid: MGA94		B 0 1.0 2.0m			CTL CHGE 12350 - 13040				Drawn: B.DAULTH Designed: N.WILSON ENGINEERING CERTIFICATION (RPED) CIVIL M.WRIGHT NR No. 8411 Date 1/3/16				Drawing No. 650951 1A	
A Issued For Construction				Height Origin: AHD DERIVED		Dimensions shown in metres except where shown otherwise			Reference Points				No. 8411 Date 1/3/16 Series Number of MRR Detail (02/14)					
Revisions/Descriptions				Survey Books: MR100057		Preceding RP: 2			Dist. to start of job (km): 4.03 From end to end of job: 0.69 From end to Following RP: 4.73 Following RP: 4									
Certification				Date		Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km												





RAMPED PAVEMENT JOINT DETAIL  
 CH 12350 - 12383.7  
 CH 13009.3 - 13040  
 N.T.S

GA-06-E  
 300 RCP (6.1m) R OF CH12560.7  
 UNDER PRIVATE ACCESS  
 INLET 6.5m R OF CH12563.7 HT129.356  
 OUTLET 6.6m R OF CH12557.6 HT129.272  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.1m<sup>3</sup>

GA-06-D  
 EXISTING 300 RCP  
 REMOVE AND DEMOLISH

GA-06-C  
 300 RCP (6.1m) R OF CH12438.7  
 UNDER PRIVATE ACCESS  
 INLET 6.1m R OF CH12441.9 HT128.55  
 OUTLET 6.1m R OF CH12435.7 HT128.329  
 (CLASS 2 RRJ)  
 ENDWALLS: PRECAST SLOPING  
 STANDARD DRAWINGS - 1243, 1359  
 CAST INSITU CUT OFF WALL: 0.1m<sup>3</sup>  
 CAST INSITU HEADWALL EXTENSION: 0.1m<sup>3</sup>

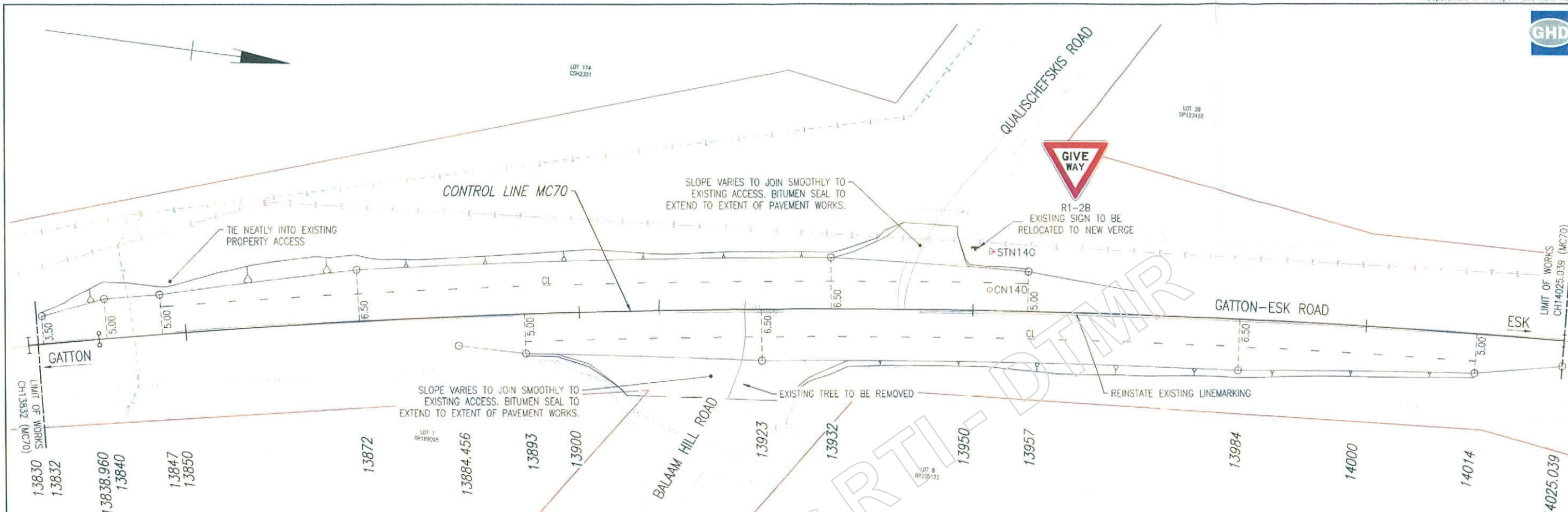
GA-06-B  
 EXISTING 300RCP  
 REMOVE AND DEMOLISH

GA-06-A  
 EXISTING 300RCP  
 TO REMAIN

Released under RTI - DTMR

Last Modified: Feb 24, 2016 - 3:00pm XREFS - K.S.dwg ; K.DOT.dwg ; X.DR04.dwg  
 CAD FILES : N:\AU\Toowoomba\Projects\41\29381\CAD\Autocad\Drawings\06\_GD-C1.dwg

Associated Job Nos		Survey Data		Scales	LOCKYER VALLEY REGIONAL COUNCIL				SITE 6 - WIDENING AND OVERLAY				
Auxiliary Drg Nos		Datum: GDA94			GATTON-ESK ROAD				GENERAL DETAILS				
		Horiz. Grid: MGA94		CTL CHGE 12350 - 13040				ENGINEERING CERTIFICATION (RPEQ)				Job No. 239/4144/2	
		Height Origin: AHD DERIVED		Reference Points				B.DAETH				Contract No. DDWD-88	
		Survey Books: MR100057		Dimensions shown in metres except where shown otherwise				CIVIL M.WRIGHT				Drawing No. 650952 A	
Revisions/Descriptions		Certification		Date		Microfiled		Preceding RP: 2, Dist. to start of job (km): 4.03, From start to end of job: 0.69, From end to Following RP: 4.73, Following RP: 4				NO. 841, DATE 1/3/16	Series Number of
Through Chainage from INTERSECTION 18A/4144, 12.3km - 13.0km												MRR_Detail (02/14)	



**LEGEND**

- CL - CONTINUITY LINE (WB)
- NEW SIGN/SIGN TO BE RELOCATED
- EXISTING SIGN TO REMAIN
- 25.624 @ 4.25 - SETOUT POINT WITH CHAINAGE AND OFFSET

**PAVEMENT DESIGN PARAMETERS**  
 PAVEMENT DESIGN COMPLETED BY TMR.  
 DESIGN LIFE = 20 YEARS  
 DESIGN TRAFFIC = 3.10x10<sup>6</sup> ESA'S  
 DESIGN SUBGRADE CBR = 15 SOAKED

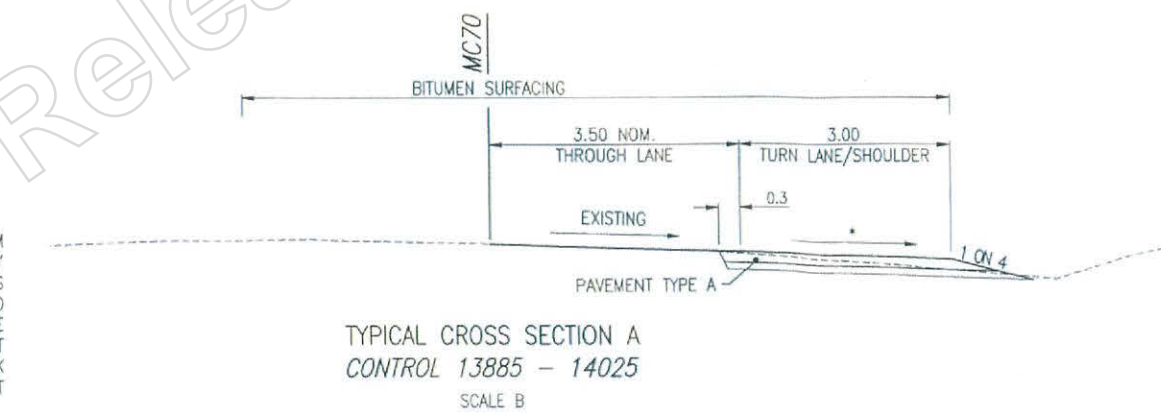
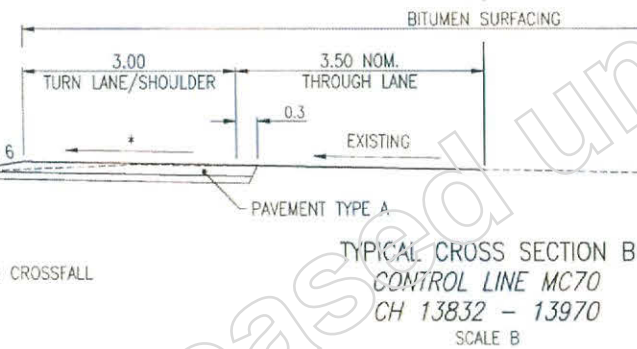
**PAVEMENT TYPE A**

- 7mm SEAL BITUMEN CLASS 0.75 (FULL WIDTH)
- 14mm SEAL BITUMEN CLASS 0.75 (FULL WIDTH)
- 10mm PRIMERSEAL AMC4 (WIDENING ONLY)
- 100mm TYPE 2.1 UNBOUND BASE
- 100mm TYPE 2.3 UNBOUND SUBBASE

NOTE: SUBBASE 2 LAYER INCLUDED TO ENSURE BOTTOM OF NEW PAVEMENT MATCHES EXISTING PAVEMENT DEPTH. FINAL DEPTH TO BE DETERMINED ON SITE.

**CAUTION**

THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES, INFORMATION SUPPLIED BY THE AUTHORITIES AND LIMITED POTHOLING AND MAGNETIC LOCATION. DETAILS OF UTILITY SERVICES ARE PROVIDED FOR INFORMATION ONLY AND NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUPPLIED. POSITIONS OF ALL MAJOR SERVICES AND CONFLICT POINTS SHALL BE RECORDED AND CHECKED BY THE CONTRACTOR. WORK SHALL NOT BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT NOTIFYING AND LIAISING WITH THE RELEVANT AUTHORITY PRIOR.



**SURVEY MARKS**

PT	EASTING	NORTHING	HEIGHT	COMBINED SCALE FACTOR	COMMENT
STN138	434389.654	6965025.270	-	0.99962320	S/PIC
STN140	434348.327	6965218.266	-	0.99962311	S/PIC
CN140	434353.163	6965218.688	-	-	-

**CONTROL LINE MC70**

PT	CHAINAGE	EASTING	NORTHING	LEVEL	BEARING	RAD/SPIRAL	A.LENGTH
START	13830	434376.42	6965098.718	149.009	347°00'27.88"		
IP2		434375.413	6965103.083			1009.811	8.96
CC	13838.96	434374.445	6965107.457	149.038	347°30'58.02"		
IP3		434354.284	6965198.517			1095	186.08
END	14025.039	434349.814	6965291.674	149.232	357°15'09.83"		

- NOTES**
- ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH TRANSPORT AND MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
  - EXISTING REGULATORY AND WARNING SIGNS WITHIN EXTENT OF WORKS TO REMAIN UNLESS SPECIFIED OTHERWISE.
  - ALL NEW REGULATORY, WARNING AND GUIDE SIGNS TO BE RETROREFLECTIVE CLASS 1W WITH LEGEND AND COLOURS IN ACCORDANCE WITH THE MUTCD AND MAIN ROADS SPECIFICATIONS.
  - UNWANTED LINEMARKING (PERMANENT OR TEMPORARY) AND RAISED PAVEMENT MARKERS ON EXISTING PAVEMENT SHALL BE REMOVED BY ABRASIVE MEANS.
  - ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 1363, 1365, 1368 AND ASSOCIATED STANDARD DRAWINGS AND MUTCD.
  - RETROREFLECTIVE RAISED PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE MUTCD PART 2, SECTION 5, PAVEMENT MARKINGS AND DEVICES.
  - TP DENOTES THERMOPLASTIC BASED PAINT.  
WB DENOTES WATER BORNE PAINT (TYPE 3).  
ALL CHEVRONS AND PAVEMENT SYMBOLS SHALL BE WATER BORNE UNLESS NOTED OTHERWISE.
  - GUIDE POSTS TO BE INSTALLED AS PER MUTCD.

Associated Job Nos Survey Data Datum: GDA94 Auxiliary Drg Nos Horiz. Grid: MGA94 Height Origin: AHD DERIVED Survey Books: MR100057	Scales A: 0 2 4 6 8 10m B: 0 1.0 2.0m Dimensions shown in metres except where shown otherwise	LOCKYER VALLEY REGIONAL COUNCIL GATTON-ESK ROAD CTL CHGE 13832 - 14025.039				SITE 7 - QUALISCHEFSKIS ROAD/BALAAM HILL ROAD GENERAL ARRANGEMENT				Queensland Government Job No. 239/4144/2 Contract No. DDWD-88 Drawing No. 650959 A Series Number of MRR Detail (02/14)
		Reference Points Preceding RP: 2, Dist. to start of job (km): 5.51, From start to end of job: 0.19, From end to Following RP: 3.75, Following RP: 4				Drawn: B.DAETH, Designed: N.WILSON ENGINEERING CERTIFICATION (RPEQ) ENG. AREA: CIVIL, NAME: M.WRIGHT, NO.: [redacted], DATE: 24/11/16				

# Calculation/Sketch Sheet

Job Title 239/4144/3 Job/File No. \_\_\_\_\_

Subject SITE 7. 3.0 0.5

**(10) Reconstruction**

$3.10 \times 10^{16}$  224  
 NI 10  
 BI 100  
 BI 100  
 AI 1

u/s	2/T	1/T	A/A	E/S
0.5 (R 10)	3.0	3.0	0.7 (R 10)	0.5 (R 10)
			1.5 (R 10)	
			3.0 (R 10)	
u/s 0.5 (R 10)	0.7 Q/A (R 10)			
	1.5 (R 10)			
	Q/A 3.0 (R 10)		3.0	
			1.5 (R 10)	
			1.5 (R 10)	
			A/A 0.7	
			E/S 0.5 (R 10)	
	1.5 (R 10)			
	Q/A 0.7 (R 10)	2/T 3.0	1/T 3.0	E/S 0.5

13832 [13.81]

13840. [13.82]

13872 [13.85]

[13.86] 13884.456

[13.87] 13893

BALLAM HILL RD

[13.90] 13921

[13.91] 13932

13932 [13.91]

QUALISCHEFSKIS

RD [13.92]  
13941

13957. [13.94]

13967. [13.95]

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[13.99] 14014

[14.00] 14025.039

Designed by and Date / / Verified by and Date / / Page no. Next Page no.

## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Government Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Layer Type		All
Start Distance	13.81	
End Distance	14	
Report As At	11-APR-2017	

## Road Inventory System Layer Details Report

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane 1            X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					3	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Carriageway 1        Lane 2            X-EL Type T

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					3	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	KU	Spray Seal - Quality Unknown	20	30-MAY-1989
											3	KU	Spray Seal - Quality Unknown	20	01-JAN-1979
											4	BU	Granular - Quality Unknown	75	01-JAN-1979
											5	BU	Granular - Quality Unknown	75	01-JAN-1979
											6	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Released under RTI/DMR

## Road Inventory System Layer Details Report

District 3            SOUTHERN DISTRICT  
 Owner MR            DEPARTMENT OF MAIN ROADS  
 Road Section 4144/C    GATTON-ESK ROAD, GATTON-ESK ROAD  
 Carriageway 1        Lane E            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					1.2	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Carriageway 1        Lane U            X-EL Type S

RP	Offset	Length	LGA	FC	SLC	CLC	Cway Link Description	Lane Width	TDist Start	TDist End	Layer Num	Layer Type	Layer Description	Layer Depth	Layer Date
2	4.040	2.480	239					1.2	12.360	14.840	1	K1	Bitumen Spray Seal	10	07-JUN-1999
											2	BU	Granular - Quality Unknown	150	01-JAN-1979
											3	AU	Subgrade - Quality Unknown	1	01-JAN-1979

Released under RTI / DTMR

## Report Parameters

District	3	SOUTHERN DISTRICT
Road Owner	MR	DEPARTMENT OF MAIN ROADS
Local Authority		All
Road Section	4144	GATTON-ESK ROAD
Carriageway		All
Lane		All
Start Distance	13.810	
End Distance	14.000	
Report As At	11-APR-2017	

Released under RTI - DTMR

## Road Inventory System Data Sheet Report

District        3 SOUTHERN DISTRICT  
 Owner         MR DEPARTMENT OF MAIN ROADS  
 Road Section   4144/C GATTON-ESK ROAD, GATTON-ESK ROAD

Cway	Lane	XEL Type	Start RP	Offset	Length	LGA	FC	SLC	CLC	Seal Width	Pave Width	Lane Width	Design ESA	Surf Type	Pave Type	Lane Type	Seal Area	Tdist Start	Tdist End
1	1	T	2	4.040	2.480	239	3	04	43	3	3	3	unknown	2	2	4	7,440	12.360	14.840
	2	T	2	4.040	2.480	239	3	04	43	3	3	3	unknown	2	2	4	7,440	12.360	14.840
	E	S	2	4.040	2.480	239	3	04	43	.3	1.2	1.2	unknown	2	2	4	744	12.360	14.840
	U	S	2	4.040	2.480	239	3	04	43	.3	1.2	1.2	unknown	2	2	4	744	12.360	14.840
Seal Area for Carriageway:														1		16,368			

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