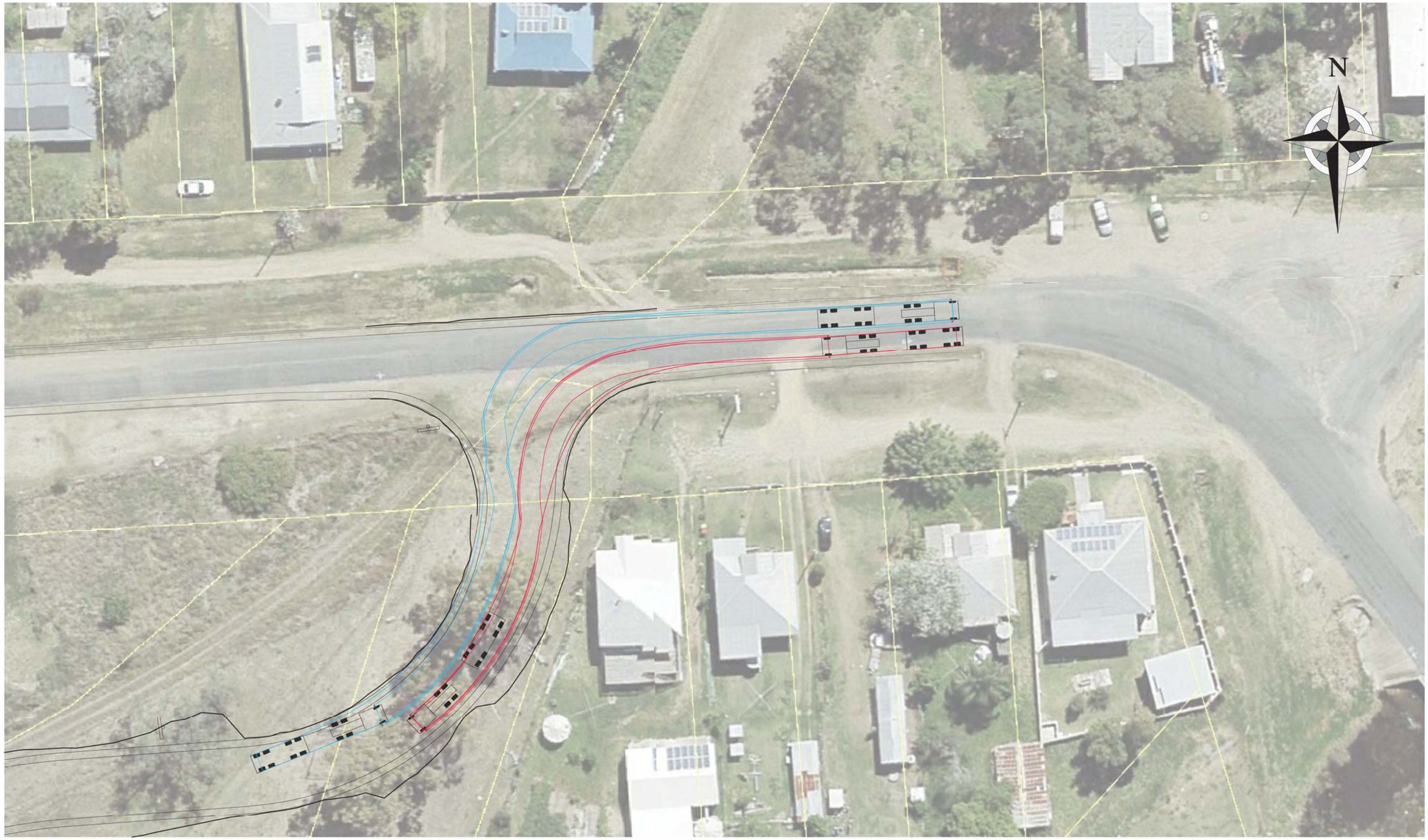
12. APPENDIX C – Swept Path Assessments



5 0 5 10 15 20 25m

SCALE 1:250 @ A1 SCALE 1:500 @ A3

PLAN

SCALE: 1:250(A1) 1:500(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
REVIEWED		
RPEQ ENG		
RPEQ No:		

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SCALE: AS SHOWN

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Fax: (07) 4921 1790

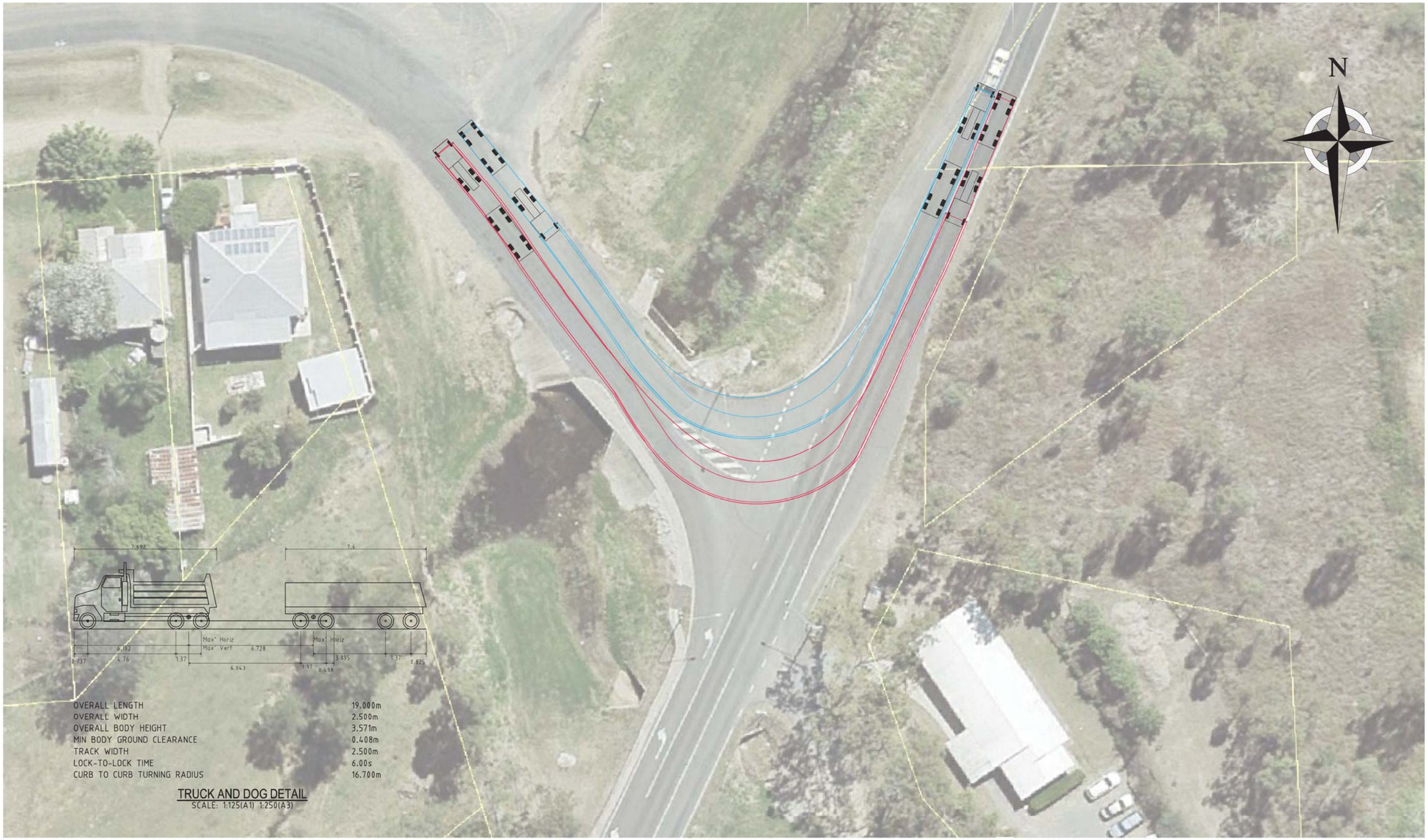
CLIENT CARBINE RESOURCES LIMITED

PROJECT MOUNT MORGAN MINE ROUTE UPGRADES

TITLE GORDON LANE AND PROPOSED INTERNAL ROAD INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 1 OF 1

A1 DRAWING NUMBER 1021617-6001 REVISION A

PLOT DATE: 13/04/2017 10:25:57 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021-16-17\ACAD\DRAWINGS (SHEET SETS, INDIVIDUAL DRAWINGS)\SHEET SET\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 6\LAYOUT PLAN 1.DWG



OVERALL LENGTH	19.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	3.571m
MIN BODY GROUND CLEARANCE	0.408m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
CURB TO CURB TURNING RADIUS	16.700m

TRUCK AND DOG DETAIL
SCALE: 1:125(A1) 1:250(A3)

5 0 5 10 15 20 25m
SCALE 1:250 @ A1 SCALE 1:500 @ A3

PLAN
SCALE: 1:250(A1) 1:500(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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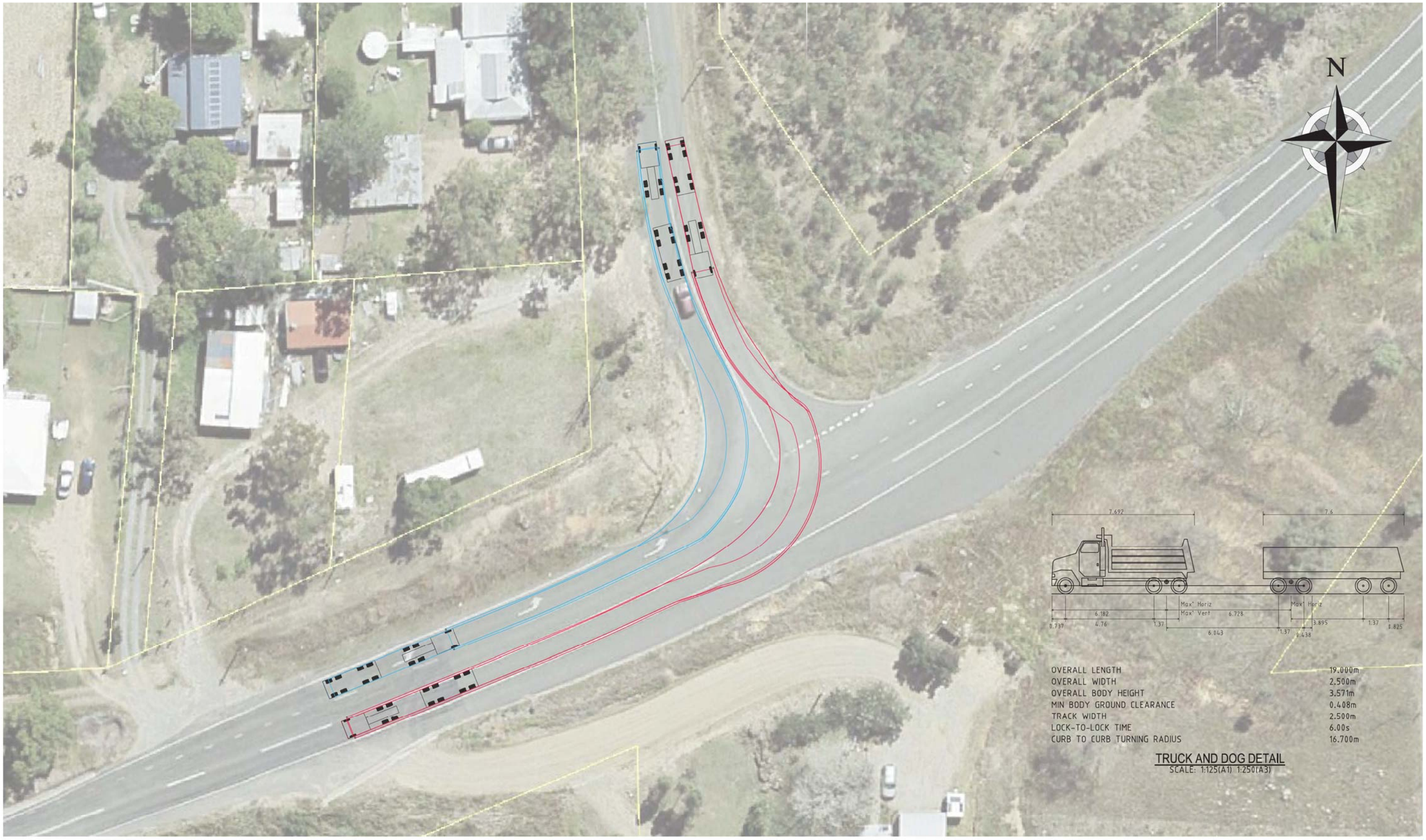
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE BURNETT HIGHWAY AND GORDON LANE INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 1 OF 2

A1 DRAWING NUMBER 1021617-5001 REVISION A

PLOT DATE: 13/04/2017 10:26:53 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1020-16-17\ACAD\DRAWINGS\SHEET SET'S, INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 5 - WATER AND SERVICES\LAYOUT PLAN 1.DWG



TRUCK AND DOG DETAIL
SCALE: 1:125(A1) 1:250(A3)

5 0 5 10 15 20 25m
SCALE 1:250 @ A1 SCALE 1:500 @ A3

PLAN
SCALE: 1:250(A1) 1:500(A3)

INFORMATION ONLY

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CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
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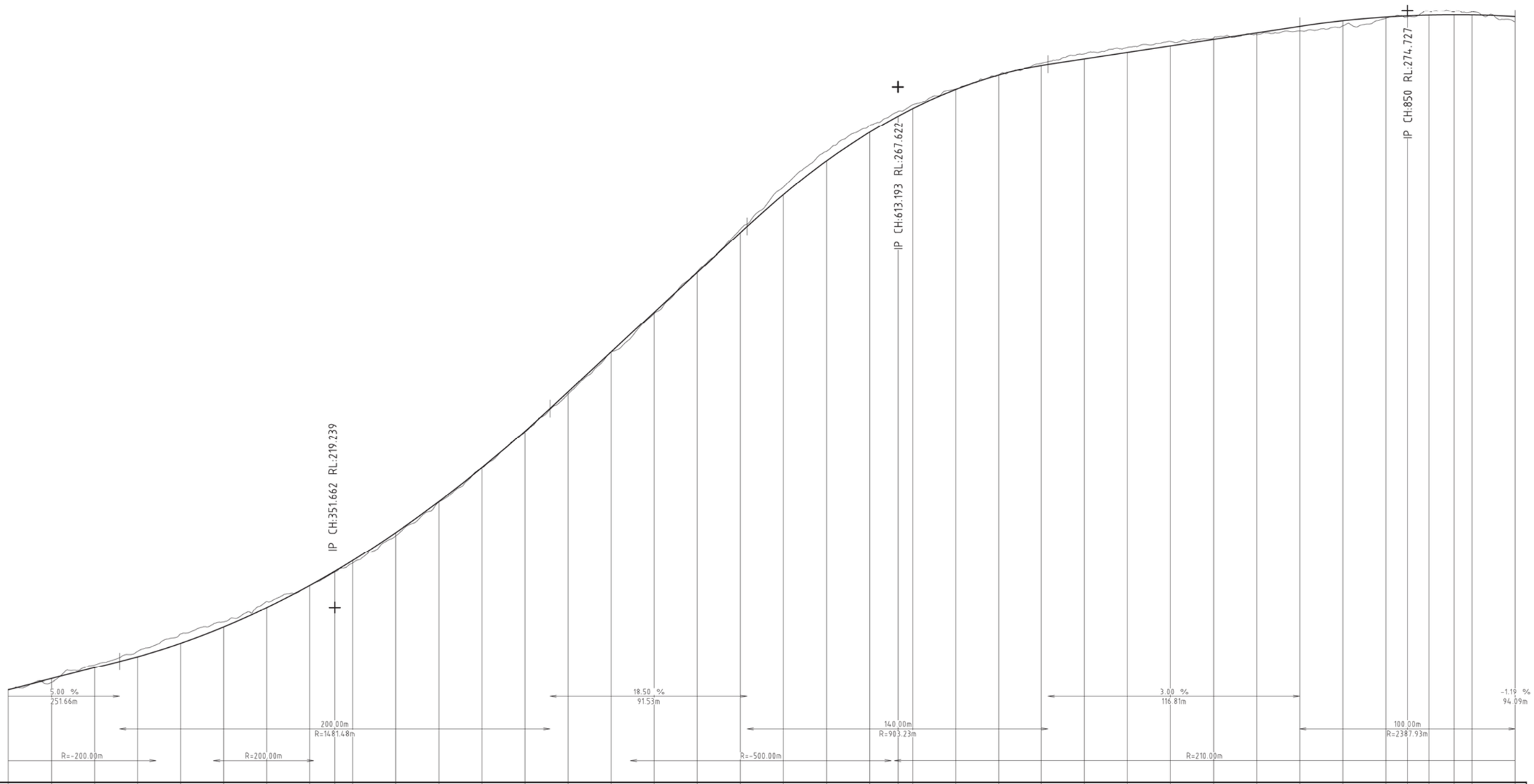
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE
BURNETT HIGHWAY AND RAZORBACK ROAD INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 1 OF 2

A1 DRAWING NUMBER 1021617-7001 REVISION A

PLOT DATE: 13/04/2017 10:26:01 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\102-16-17\ACAD\DRAWINGS\SHEET SETS_INDIVIDUAL DRAWINGS\SHEET SET\STANDARD SUBMISSION SHEET SET TEMPLATE\SECTION 7\LAYOUT PLAN 1.DWG

13. APPENDIX D – Razorback Road 'jumpup' Details and Horizontal Curve Assessment


IP CH:351.662 RL:219.239
IP CH:613.193 RL:267.622
IP CH:850 RL:274.727

| | | |

FIGURE 1 - RAZORBACK ROAD

FIGURE 2 - RAZORBACK ROAD 18.5% MAX GRADE

FIGURE 3 - TYPICAL SHOULDERS

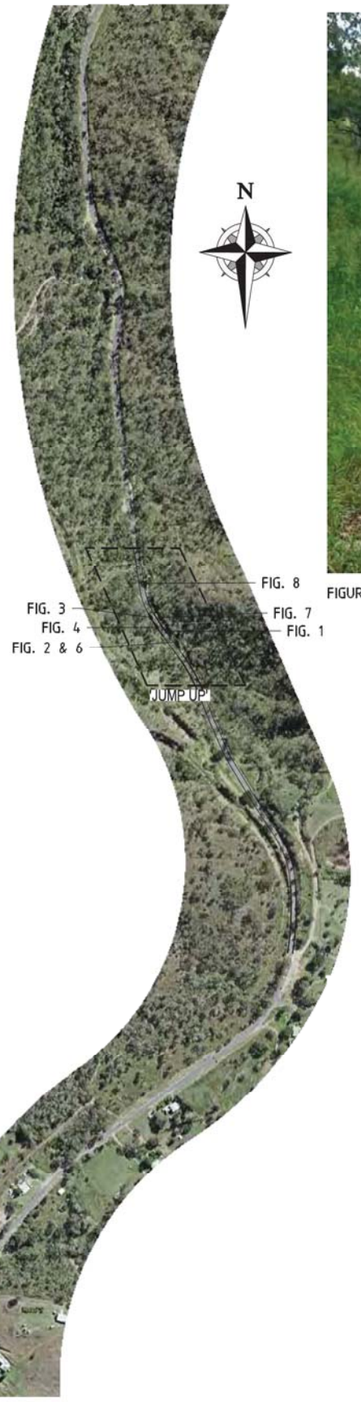


FIGURE 4 - TYPICAL SHOULDER AT BOTTOM OF 'JUMP UP'

FIGURE 5 - CONCRETE SPOON DRAIN

FIGURE 6 - SHOULER AND DRAIN

FIGURE 7 - TYPICAL SHOULDER AND DRAIN

FIGURE 8 - TYPICAL SHOULDERS

INFORMATION ONLY

SURVEYOR	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN
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SCALE: NTS

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PROJECT
TITLE

A1

DRAWING NUMBER 0491516-SK-0004

REVISION A

PLOT DATE: 29-Mar-17 4:16:02 PM DRAWING LOCATION: S:\PROJECT RECORDS\15-16\491-15-16\ACAD\SKETCHES\DRAWING3.DWG

INFORMATION ONLY

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CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE GENERAL
RAZORBACK ROAD EXISTING ROAD ALIGNMENT - SHEET 1 OF 1

A1 | DRAWING NUMBER 1021617-0001 | REVISION A

PLOT DATE 13/04/2017 11:37:44 AM DRAWING LOCATION S:\PROJECT RECORDS\16-17\1021617\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 0 - GENERAL\EXISTING ROAD ALIGNMENTS - SHEET 1 OF 1.DWG

14. APPENDIX E – Conceptual Layouts for Upgrades

2.5 0 2.5 5 7.5 10 12.5m

SCALE 1:125 @ A1 SCALE 1:250 @ A3

PLAN

SCALE: 1:125(A1) 1:250(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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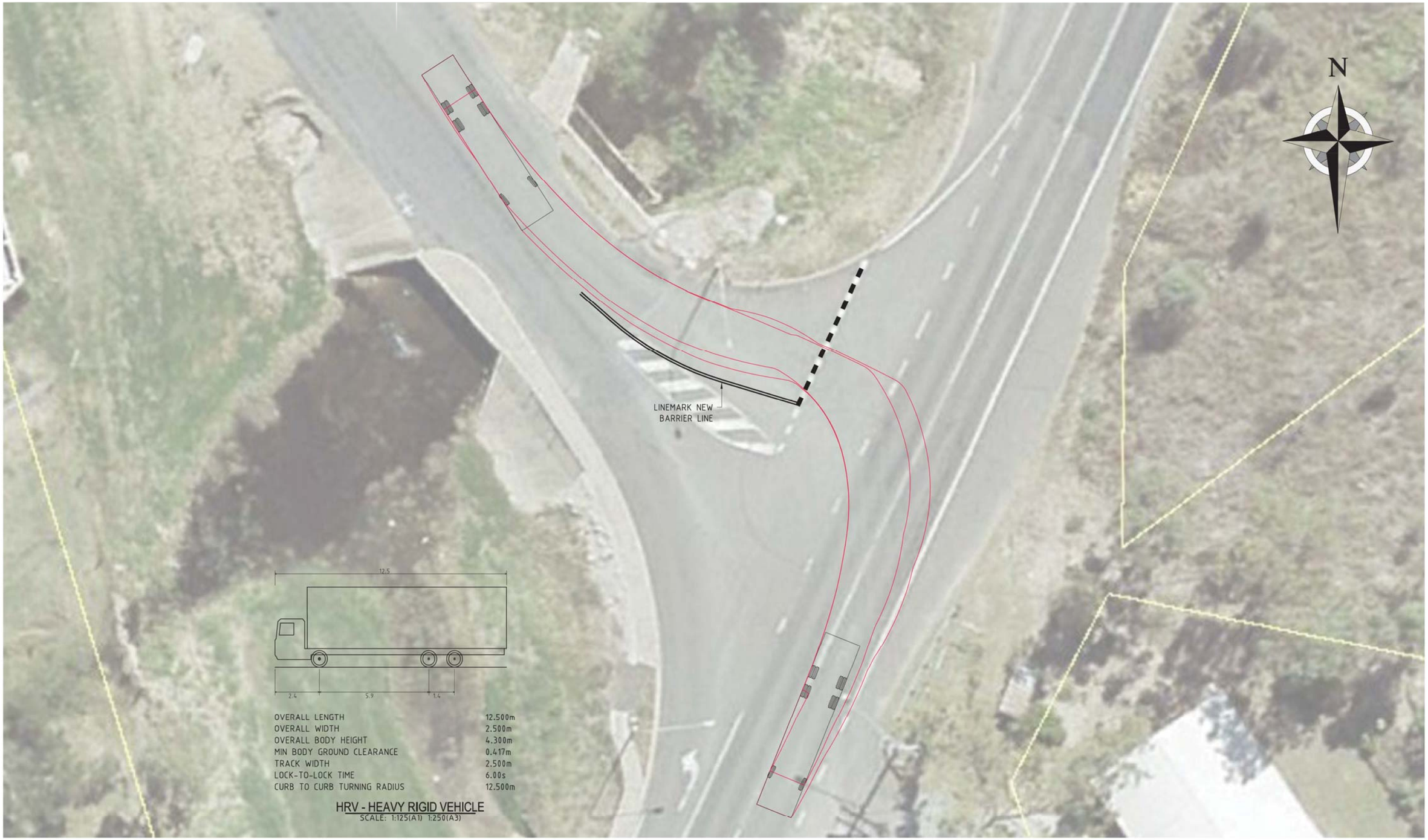
CLIENT CARBINE RESOURCES LIMITED

PROJECT MOUNT MORGAN MINE ROUTE UPGRADES

TITLE GORDON LANE AND PROPOSED INTERNAL ROAD INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 2 OF 2

A1 | DRAWING NUMBER 1021617-6002 | REVISION A

PLOT DATE: 13/04/2017 10:31:26 AM DRAWING LOCATION: S:\PROJECT RECORDS\16x-17\102-16-17\ACAD\DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION R\LAYOUT PLAN 2.DWG



OVERALL LENGTH	12.500m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN BODY GROUND CLEARANCE	0.417m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
CURB TO CURB TURNING RADIUS	12.500m

HRV - HEAVY RIGID VEHICLE
SCALE: 1:125(A1) 1:250(A3)

PLAN
SCALE: 1:125(A1) 1:250(A3)

2.5 0 2.5 5 7.5 10 12.5m
SCALE 1:125 @ A1 SCALE 1:250 @ A3

INFORMATION ONLY

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ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE
BURNETT HIGHWAY AND GORDON LANE INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 2 OF 2

A1 DRAWING NUMBER 1021617-5002 REVISION A

PLOT DATE: 13/04/2017 10:21:21 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 5 - WATER AND SERVICES\LAYOUT PLAN 2.DWG

PAVEMENT WIDENING DETAIL
SCALE: 1:100(A1) 1:200(A3)

5 0 5 10 15 20 25m
SCALE 1:250 @ A1 SCALE 1:500 @ A3

PLAN
SCALE: 1:250(A1) 1:500(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
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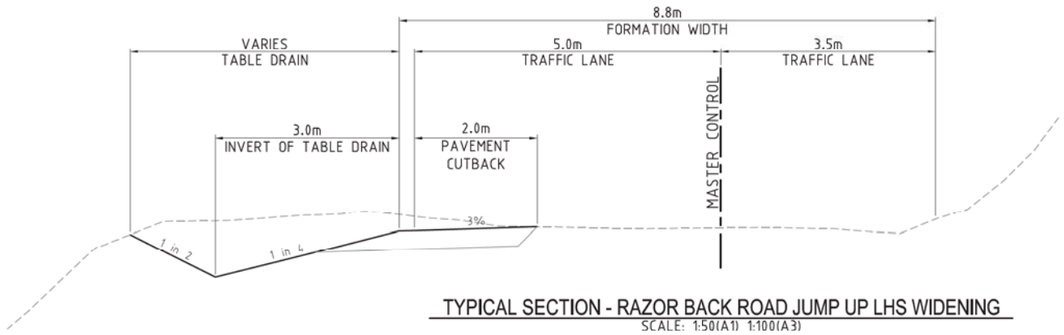
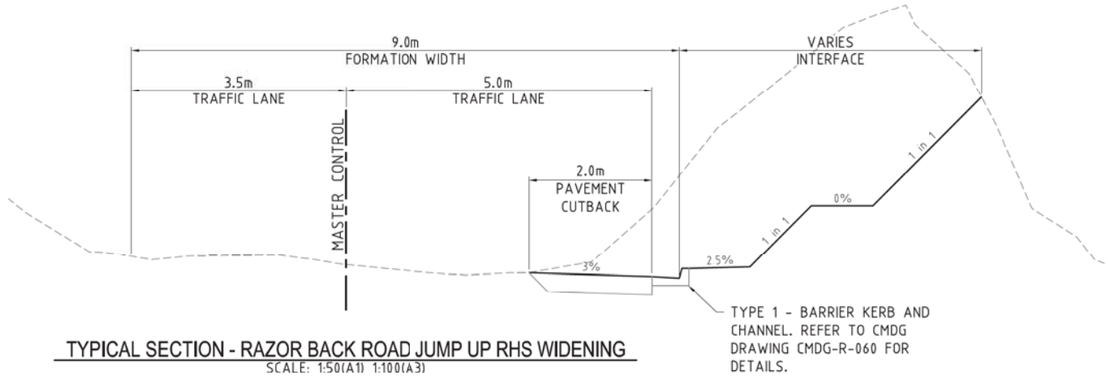
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE
BURNETT HIGHWAY AND RAZORBACK ROAD INTERSECTION
SWEPT PATH AND ROADWORKS LAYOUT PLAN - SHEET 2 OF 2

A1 DRAWING NUMBER 1021617-7002 REVISION A

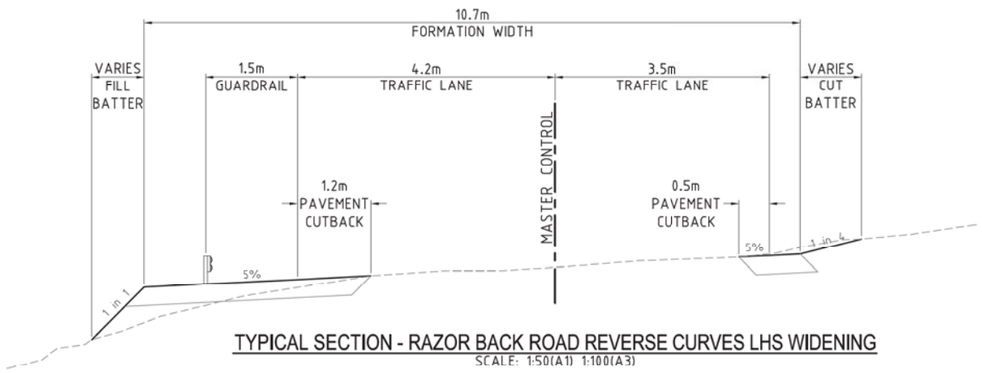
PLOT DATE: 13/04/2017 10:31:39 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021617\ACAD\DRAWINGS (SHEET SETS, INDIVIDUAL DRAWINGS)\SHEET SET\STANDARD SUBMISSION SHEET SET TEMPLATE\SECTION 7\LAYOUT PLAN 2.DWG



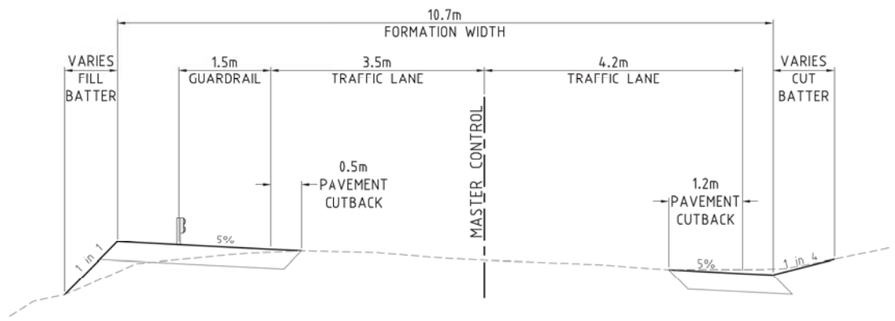
TYPICAL SECTION - RAZOR BACK ROAD JUMP UP LHS WIDENING
SCALE: 1:50(A1) 1:100(A3)



TYPICAL SECTION - RAZOR BACK ROAD JUMP UP RHS WIDENING
SCALE: 1:50(A1) 1:100(A3)



TYPICAL SECTION - RAZOR BACK ROAD REVERSE CURVES LHS WIDENING
SCALE: 1:50(A1) 1:100(A3)



TYPICAL SECTION - RAZOR BACK ROAD REVERSE CURVES RHS WIDENING
SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
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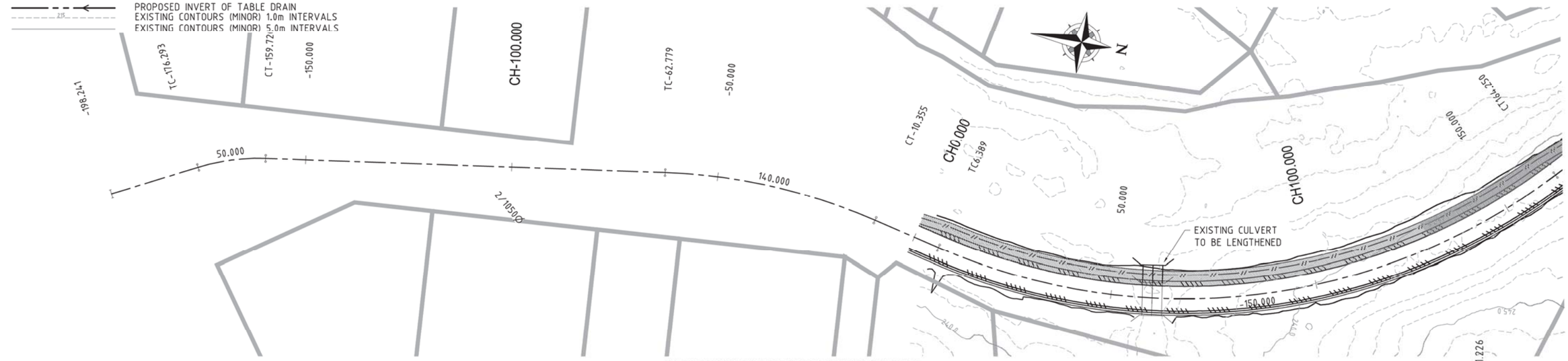
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE GENERAL
TYPICAL SECTIONS AND DETAILS - SHEET 1 OF 1

A1 DRAWING NUMBER 1021617-0002 REVISION A

PLOT DATE: 13/04/2017 10:29:19 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\102-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATE\SECTION 0 - GENERALITY\TYPICAL SECTIONS AND DETAILS - SHEET 1.DWG

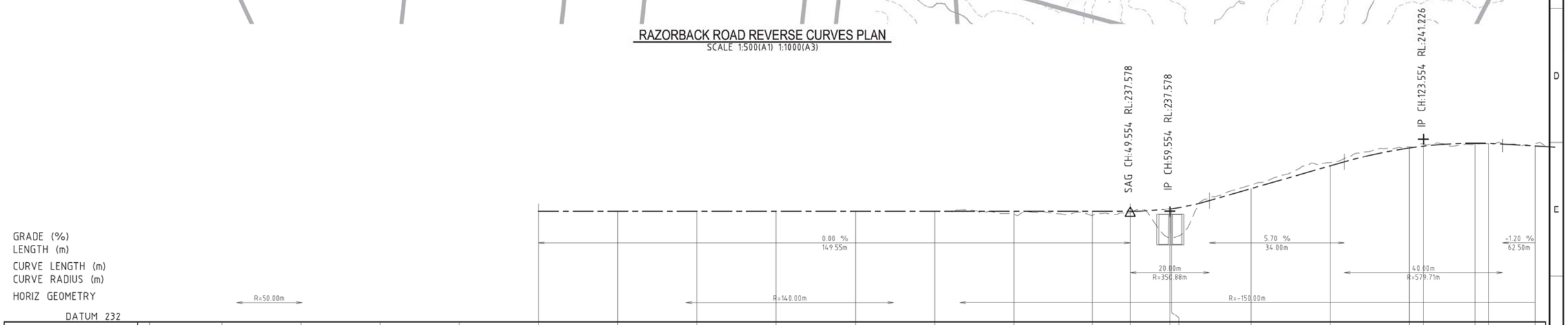
LEGEND

- PROPOSED CONTROL LINE/ALIGNMENT
- PROPERTY BOUNDARY
- PROPOSED EDGE OF BITUMEN
- PROPOSED EDGE OF PAVEMENT CUTBACK
- PROPOSED SHOULDER
- PROPOSED INVERT OF TABLE DRAIN
- EXISTING CONTOURS (MINOR) 1.0m INTERVALS
- EXISTING CONTOURS (MINOR) 5.0m INTERVALS



RAZORBACK ROAD REVERSE CURVES PLAN

SCALE 1:500(A1) 1:1000(A3)



MC CONTROL LINE CHAINAGE	CONTROL LINE DESIGN HEIGHTS	EXISTING SURFACE	DEPTH TO EXISTING SURFACE
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-180.000			
-160.000			
-140.000			
-120.000			
-100.000	237.578		
-80.000	237.578		
-60.000	237.578		
-40.000	237.578		
-20.000	237.578		
0.000	237.578		
20.000	237.578	237.427	-0.151
40.030	237.578	237.366	-0.212
49.554	237.578	237.507	-0.071
59.554	237.72	236.262	-1.458
60.000	237.733	236.263	-1.47
80.000	238.743	238.913	0.17
100.000	239.883	240.042	0.159
120.000	240.79	240.85	0.06
123.554	240.881	240.996	0.115
136.597	241.028	240.97	-0.058
140.000	241.018	240.996	-0.022
151.759	240.887	240.998	0.111

SCALE 1:500 @ A1 — SCALE 1:1 000 @ A3

SCALE 1:100 @ A1 — SCALE 1:200 @ A3

REVERSE CURVES LONGITUDIAL SECTION

HORIZ SCALE 1:500A1) 1:1000(A3)
VERT SCALE 1:100(A1) 1:200(A3)

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Fax: (07) 4921 1790

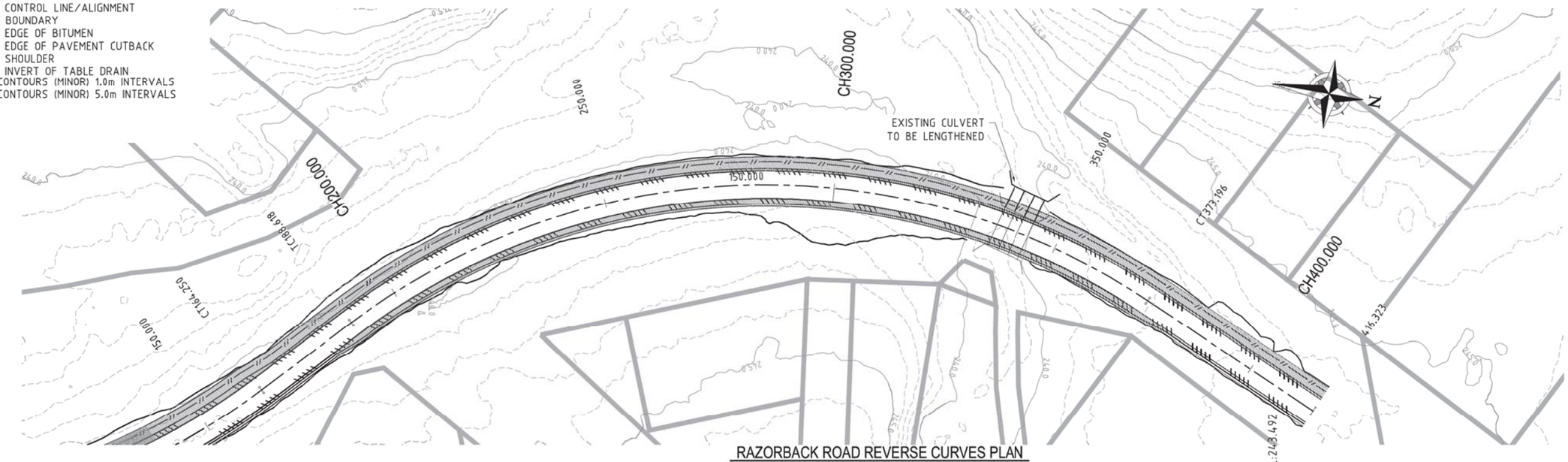
CLIENT: CARBINE RESOURCES LIMITED
PROJECT: MOUNT MORGAN MINE ROUTE UPGRADES
TITLE: CREEK STREET REVERSE CURVES
ROADWORKS LAYOUT PLAN - SHEET 1 OF 2

A1 — DRAWING NUMBER: 1021617-2001 — REVISION: A

PLOT DATE: 13/04/2017 3:06:28 PM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\102-16-17\ACAD\DRAWINGS (SHEET SETS, INDIVIDUAL DRAWINGS)\SHEET SET\STANDARD SUBMISSION SHEET SET TEMPLATE\SECTION 2 - ROAD WORKS\REVERSE CURVES LAYOUT - SHEET 1.DWG

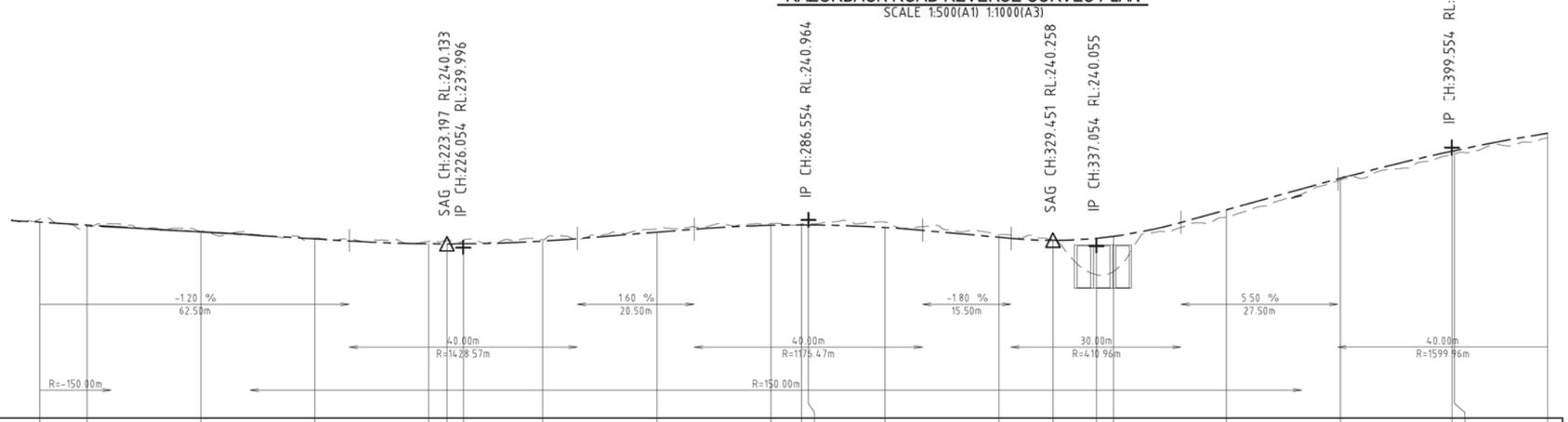
LEGEND

- PROPOSED CONTROL LINE/ALIGNMENT
- PROPERTY BOUNDARY
- PROPOSED EDGE OF BITUMEN
- PROPOSED EDGE OF PAVEMENT CUTBACK
- PROPOSED SHOULDER
- PROPOSED INVERT OF TABLE DRAIN
- EXISTING CONTOURS (MINOR) 1.0m INTERVALS
- EXISTING CONTOURS (MINOR) 5.0m INTERVALS



RAZORBACK ROAD REVERSE CURVES PLAN

SCALE 1:500(A1) 1:1000(A3)



CONTROL LINE DESIGN HEIGHTS	240.887	240.789	240.549	240.309	240.137	240.133	240.136	240.232	240.539	240.782	240.794	240.794	240.704	240.362	240.258	240.329	240.394	241.317	242.417	243.367	243.386	243.992
EXISTING SURFACE	240.998	240.742	240.57	240.336	240.22	240.239	240.244	240.279	240.663	240.838	240.834	240.837	240.888	240.44	240.313	239.02	239.123	241.069	242.357	243.254	243.276	243.835
DEPTH TO EXISTING SURFACE	0.111	-0.047	0.022	0.028	0.083	0.106	0.108	0.047	0.124	0.056	0.039	0.043	0.185	0.078	0.055	-1.309	-1.271	-0.248	-0.06	-0.113	-0.11	-0.157
MC CONTROL LINE CHAINAGE	151.759	160.000	180.000	200.000	220.000	223.197	226.054	240.000	260.000	280.000	285.378	286.554	300.000	320.000	329.451	337.054	340.000	360.000	380.000	399.554	400.000	416.323

SCALE 1:500 @ A1 — SCALE 1:1 000 @ A3 — SCALE 1:100 @ A1 — SCALE 1:200 @ A3

REVERSE CURVES LONGITUDIAL SECTION

HORIZ SCALE 1:500A1) 1:1000(A3)
VERT SCALE 1:100(A1) 1:200(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
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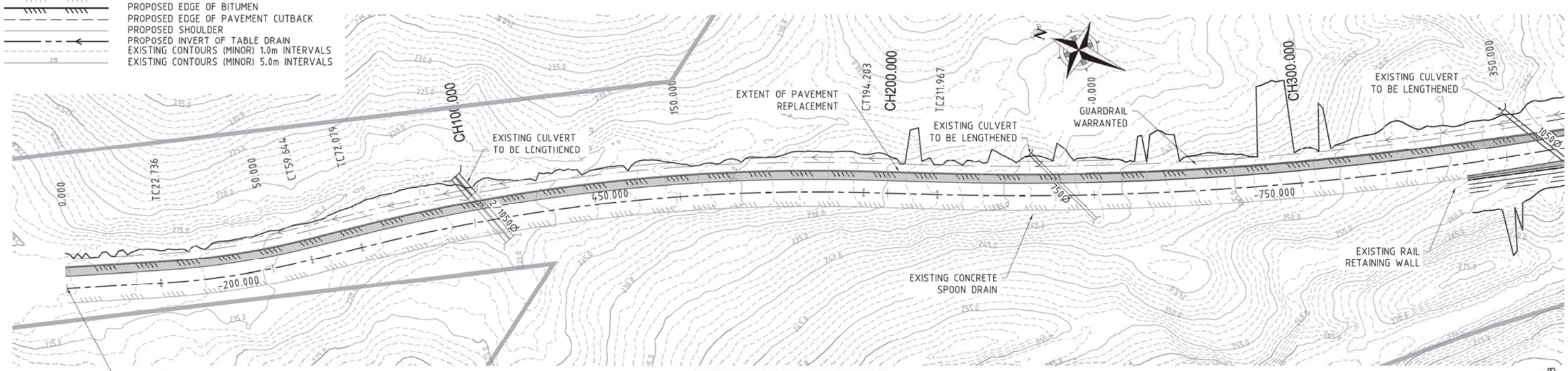
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE CREEK STREET REVERSE CURVES
ROADWORKS LAYOUT PLAN - SHEET 2 OF 2

A1 | DRAWING NUMBER 1021617-2002 | REVISION A

DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1002-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 2 - ROAD WORKS\REVERSE CURVES LAYOUT - SHEET 2.DWG
PLOT DATE: 13/04/2017 3:10:11 PM

LEGEND

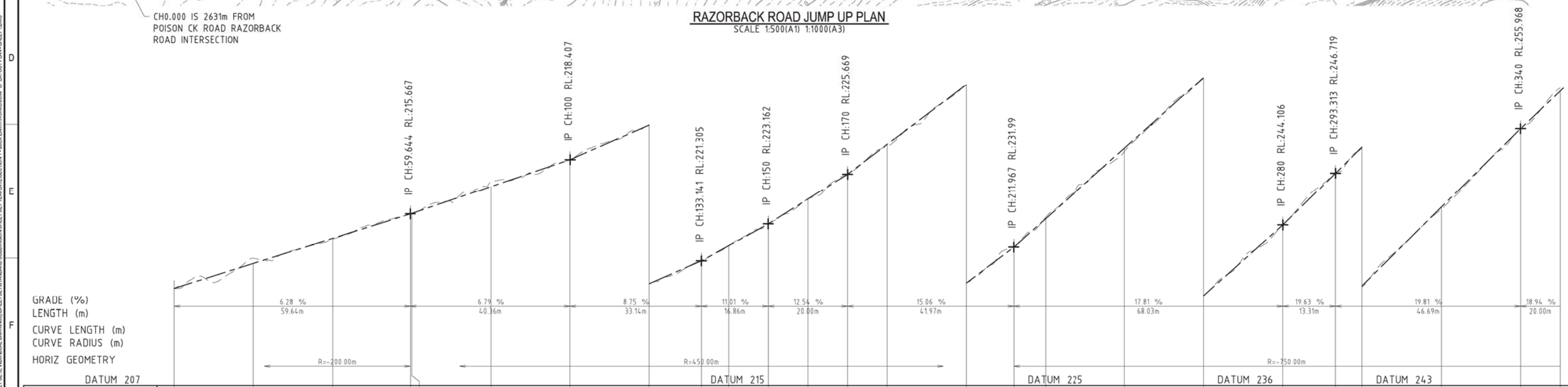
- PROPOSED CONTROL LINE/ALIGNMENT
- PROPERTY BOUNDARY
- EXISTING EDGE OF BITUMEN
- PROPOSED EDGE OF BITUMEN
- PROPOSED EDGE OF PAVEMENT CUTBACK
- PROPOSED SHOULDER
- PROPOSED INVERT OF TABLE DRAIN
- EXISTING CONTOURS (MINOR) 1.0m INTERVALS
- EXISTING CONTOURS (MINOR) 5.0m INTERVALS



CH0.000 IS 2631m FROM POISON CK ROAD RAZORBACK ROAD INTERSECTION

RAZORBACK ROAD JUMP UP PLAN

SCALE 1:500(A1) 1:1000(A3)



EXISTING SURFACE	211.919	213.425	214.384	215.667	215.694	217.278	218.407	220.156	221.305	222.07	223.162	224.411	225.669	227.076	230.191	231.99	233.492	236.816	240.543	244.106	246.719	247.982	251.889	255.968	258.015
MC CONTROL LINE CHAINAGE	0.000	20.000	40.000	59.644	60.000	80.000	100.000	120.000	133.141	140.000	150.000	160.000	170.000	180.000	200.000	211.967	220.000	240.000	260.000	280.000	293.313	300.000	320.000	340.000	350.000

JUMP UP LONGITUDIAL SECTION

HORIZ SCALE 1:500A1) 1:1000(A3)
VERT SCALE 1:100(A1) 1:200(A3)

10 0 10 20 30 40 50m
SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

2 0 2 4 6 8 10m
SCALE 1:100 @ A1 SCALE 1:200 @ A3

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
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Fax: (07) 4921 1790

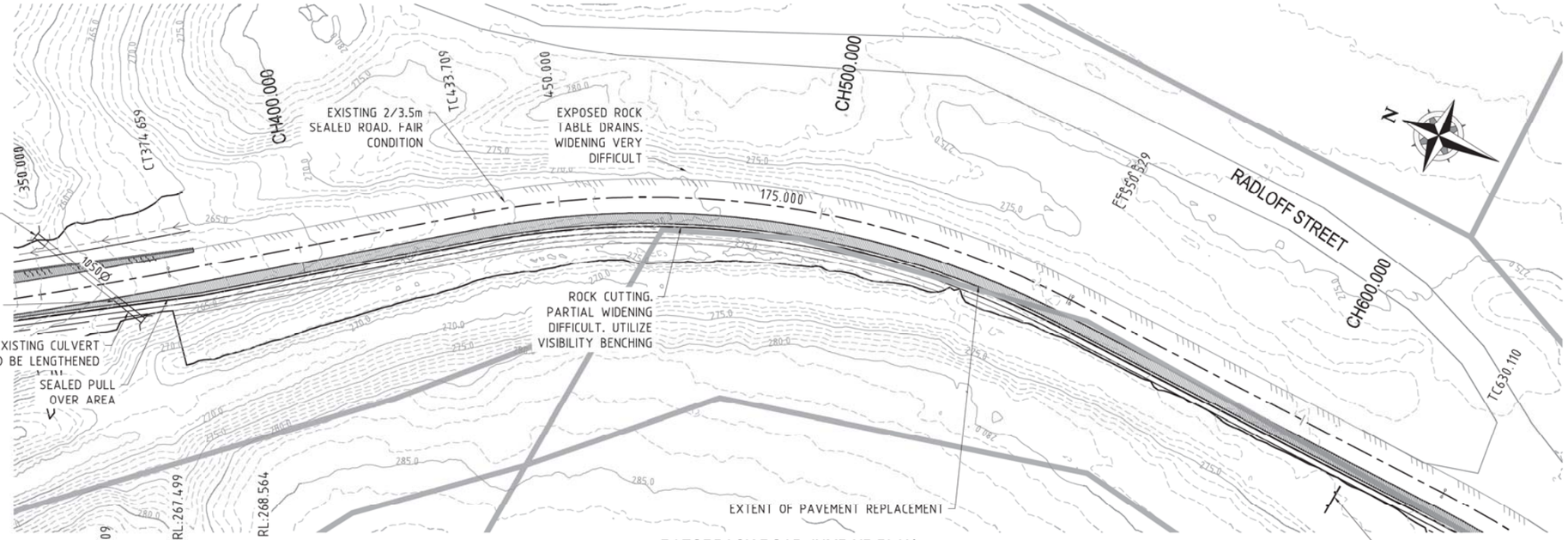
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROADWORKS LAYOUT PLAN - SHEET 1 OF 2

A1 | DRAWING NUMBER 1021617-1001 | REVISION A

PLOT DATE: 13/04/2017 10:29:25 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1002-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP LAYOUT PLAN+SHEET 1.DWG

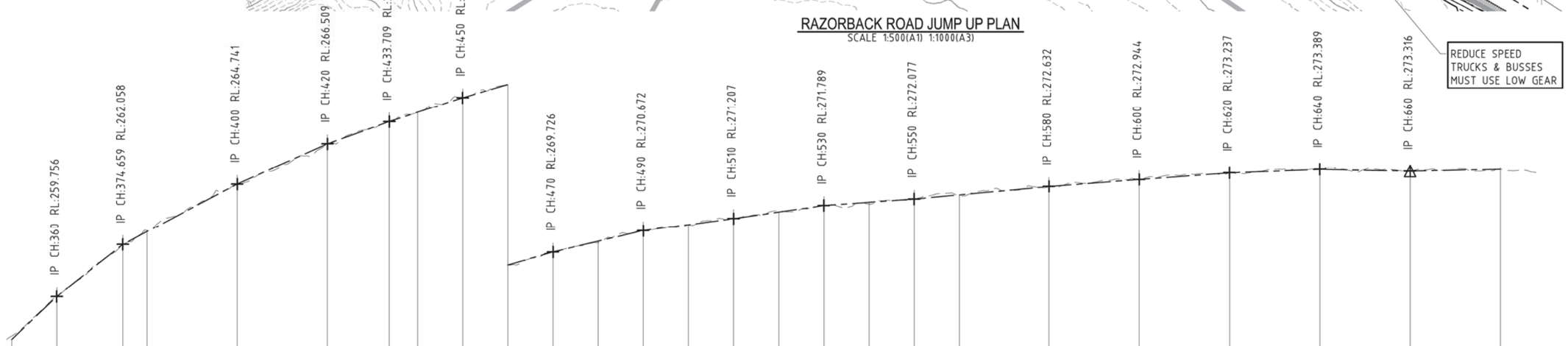
LEGEND

- PROPOSED CONTROL LINE/ALIGNMENT
- PROPERTY BOUNDARY
- EXISTING EDGE OF BITUMEN
- PROPOSED EDGE OF BITUMEN
- PROPOSED EDGE OF PAVEMENT CUTBACK
- PROPOSED SHOULDER
- PROPOSED INVERT OF TABLE DRAIN
- EXISTING CONTOURS (MINOR) 1.0m INTERVALS
- EXISTING CONTOURS (MINOR) 5.0m INTERVALS



RAZORBACK ROAD JUMP UP PLAN

SCALE 1:500(A1) 1:1000(A3)



EXISTING SURFACE	258.015	259.756	262.058	262.673	264.741	266.509	267.499	267.886	268.564	269.147	269.726	270.137	270.672	270.928	271.207	271.564	271.789	271.853	272.077	272.224	272.632	272.944	273.237	273.389	273.316	273.394					
MC CONTROL LINE CHAINAGE	350.000	360.000	374.659	380.000	400.000	420.000	433.709	440.000	450.000	460.000	470.000	480.000	490.000	500.000	510.000	520.000	530.000	540.000	550.000	560.000	580.000	600.000	620.000	640.000	660.000	680.000	700.000				

10 0 10 20 30 40 50m
SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

2 0 2 4 6 8 10m
SCALE 1:100 @ A1 SCALE 1:200 @ A3

JUMP UP LONGITUDIAL SECTION

HORIZ SCALE 1:500A1) 1:1000(A3)
VERT SCALE 1:100(A1) 1:200(A3)

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ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
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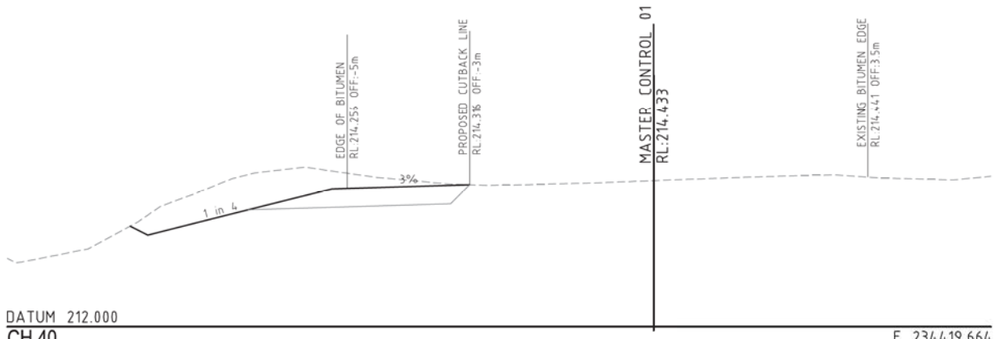
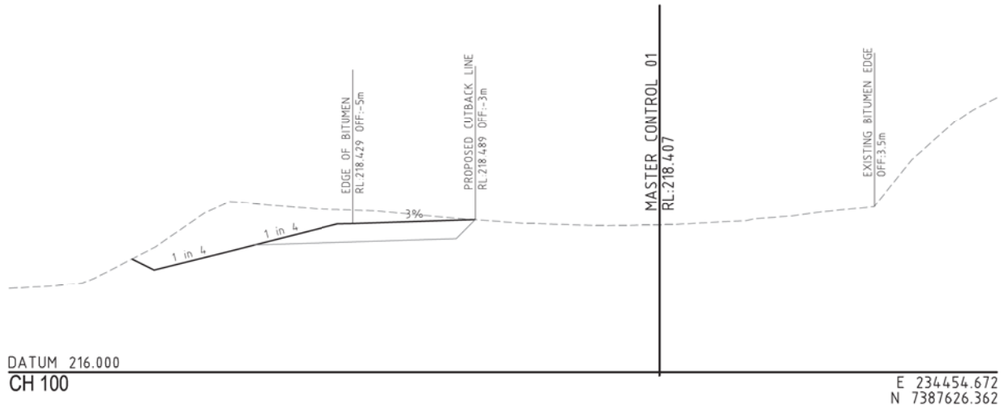
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROADWORKS LAYOUT PLAN - SHEET 2 OF 2

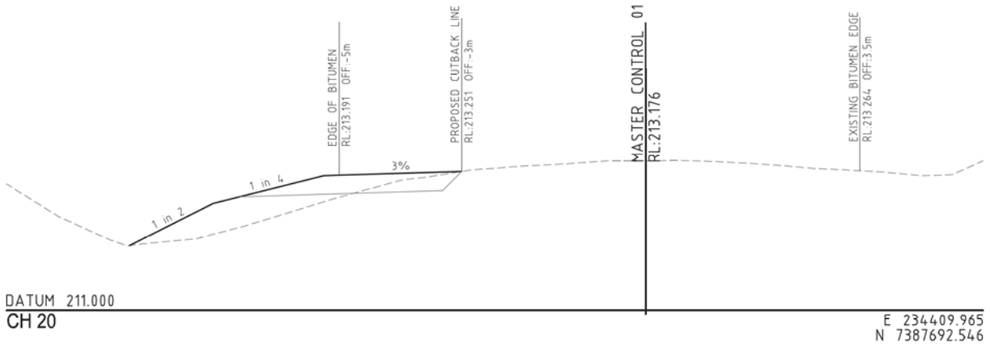
A1 | DRAWING NUMBER 1021617-1002 | REVISION A

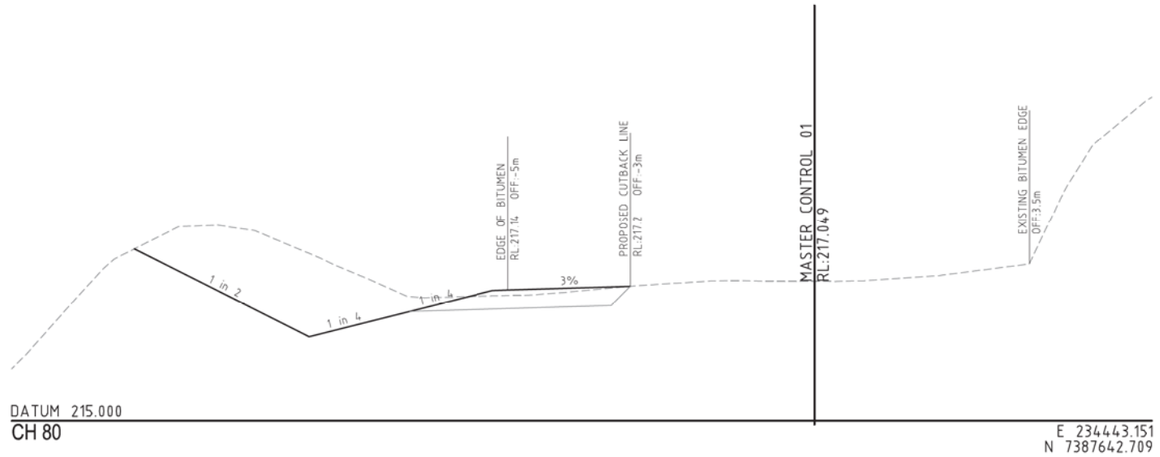
PLOT DATE: 13/04/2017 10:29:49 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1002-16-17\ACAD\DRAWINGS\SHEET SETS_INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBDIVISION\SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP LAYOUT PLAN-SHEET 2.DWG

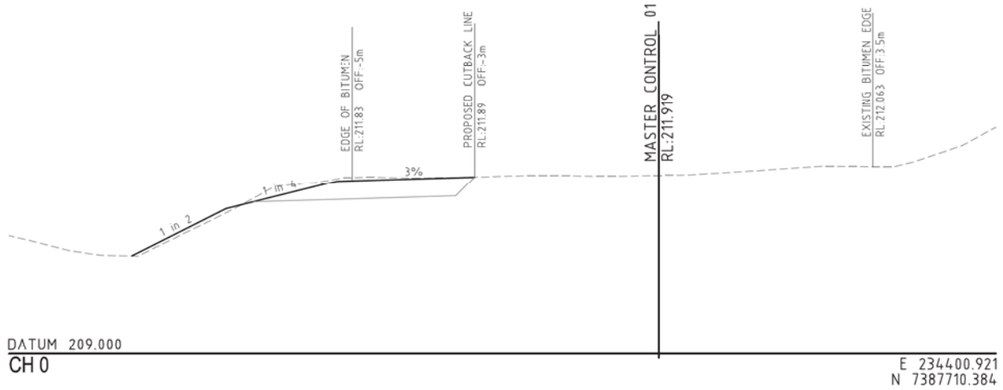
NOTE
MATCH WIDENING CROSSFALL TO EXISTING PAVEMENT. PAVEMENT IS PROVISIONAL ONLY.

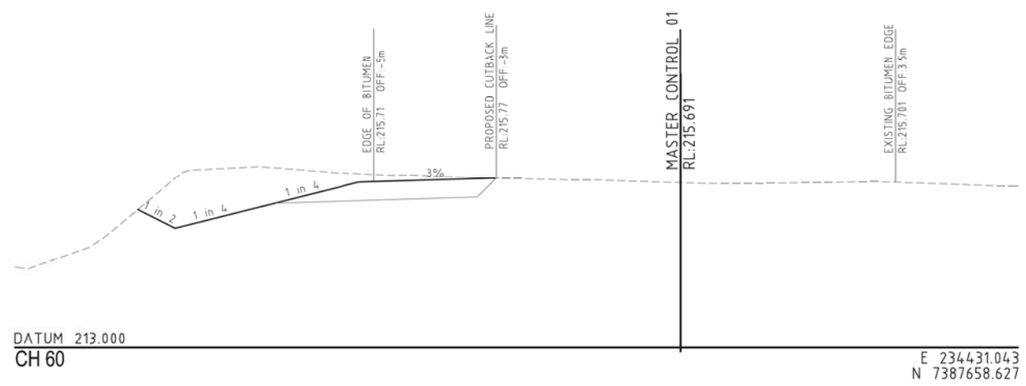












1 0 1 2 3 4 5m
SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 0.000 - 100.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
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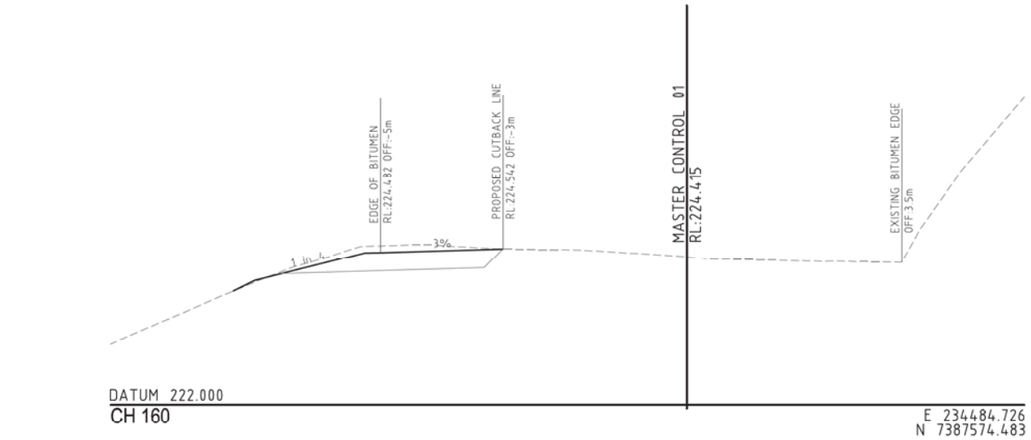
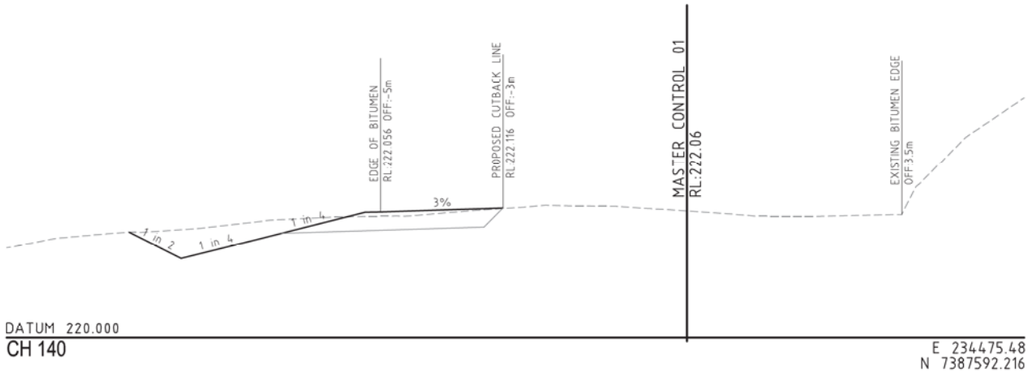
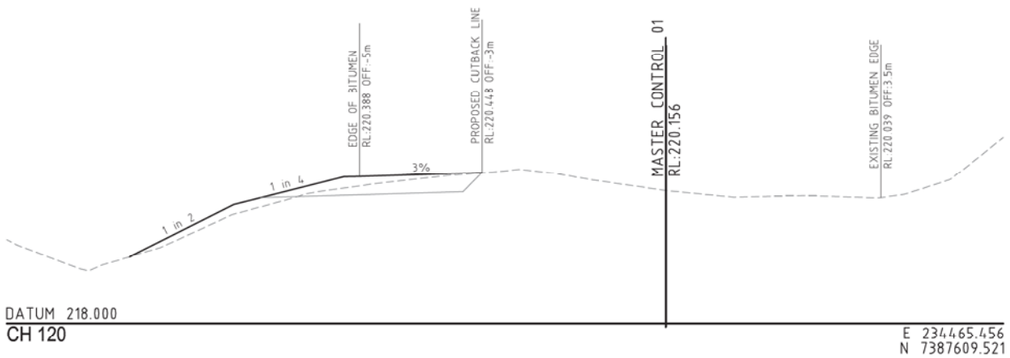
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 1 OF 10

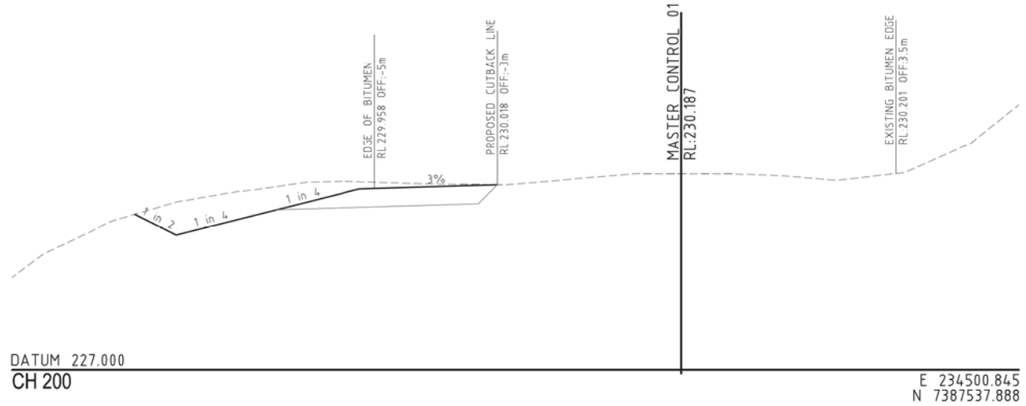
A1 | DRAWING NUMBER 1021617-1101 | REVISION A

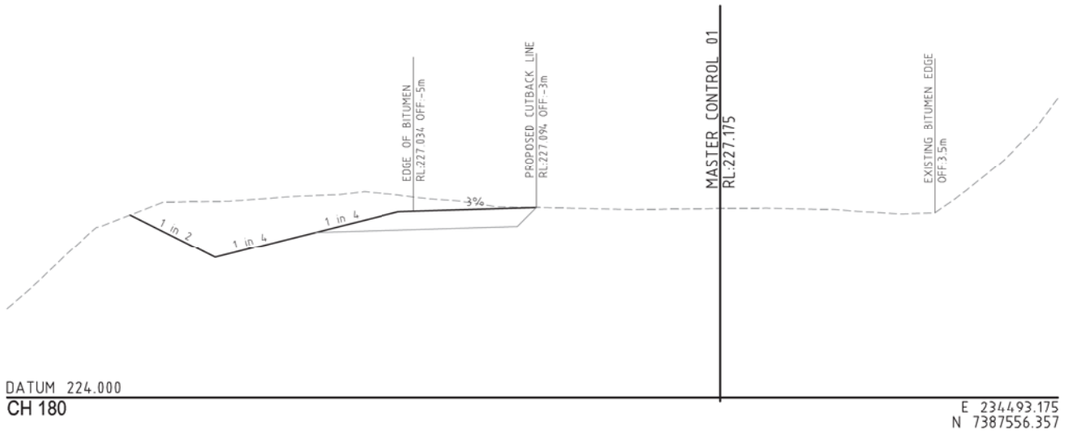
PLOT DATE: 13/04/2017 10:29:45 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATES\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 1.DWG











1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 120.000 - 200.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

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HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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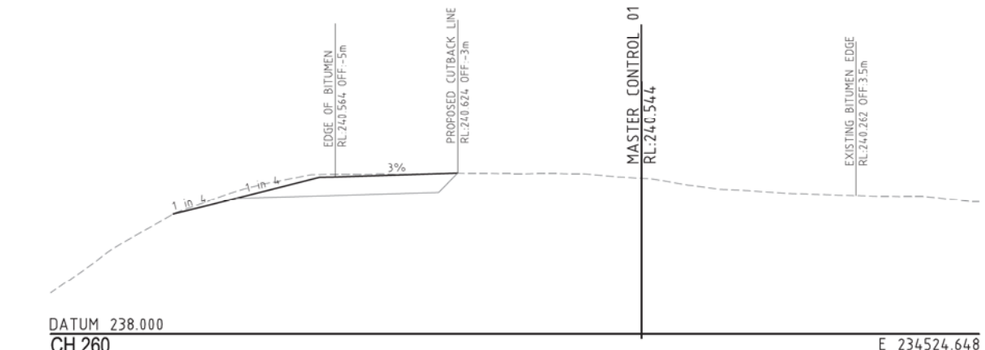
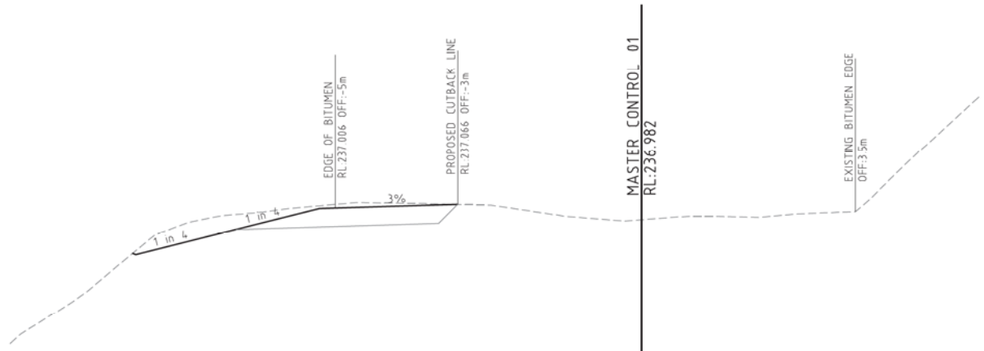
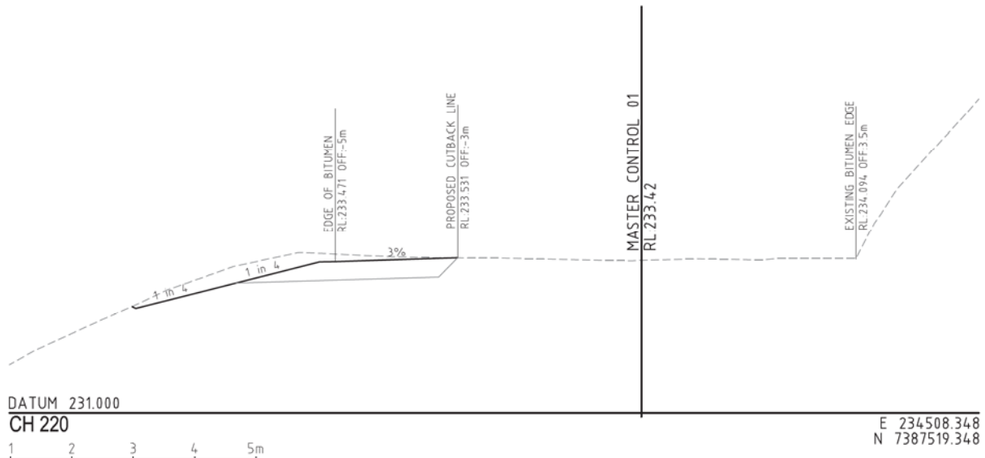
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 2 OF 10

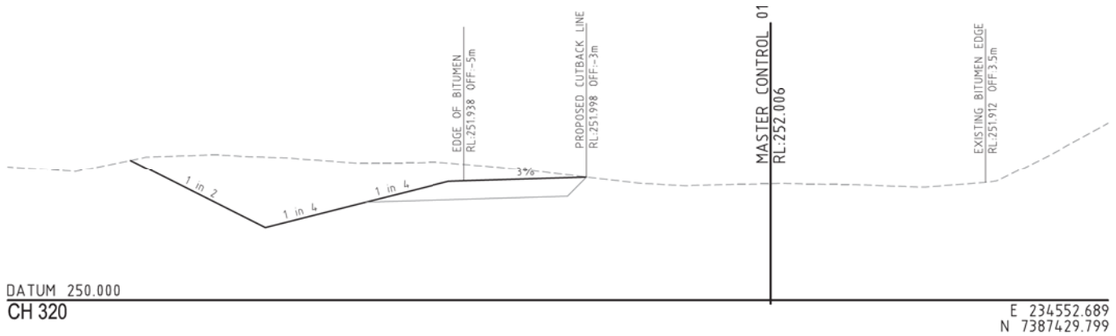
A1 | DRAWING NUMBER 1021617-1102 | REVISION A

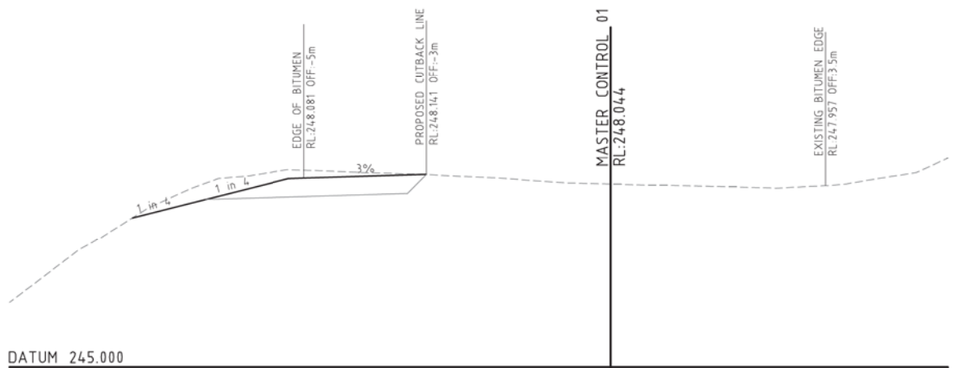
PLOT DATE: 13/04/2017 10:29:50 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATES\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 2.DWG

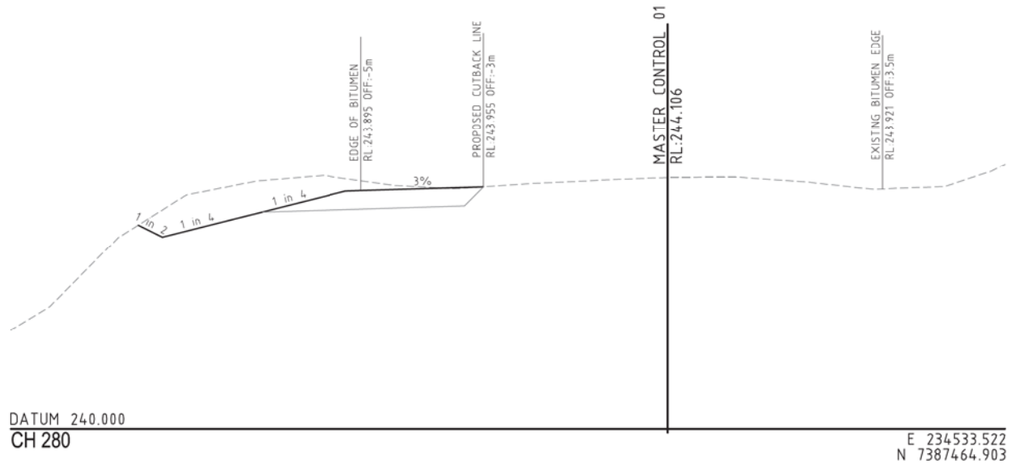












1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 220.000 - 320.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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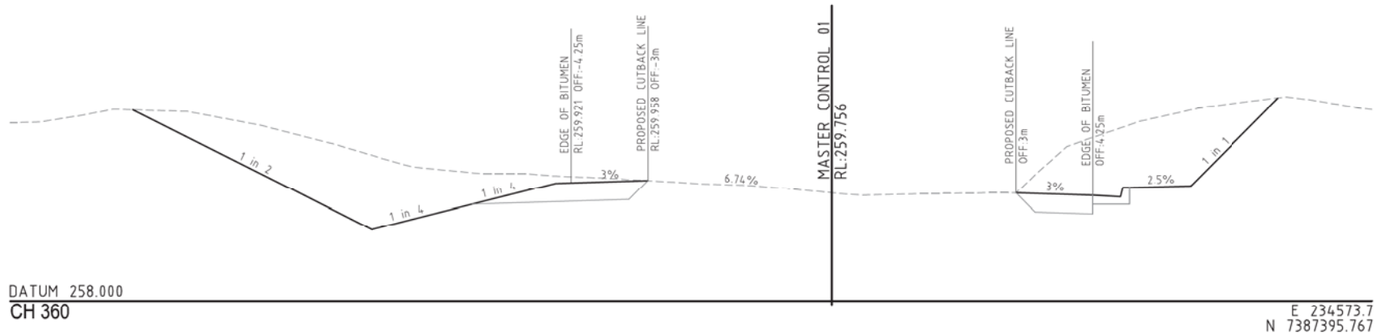
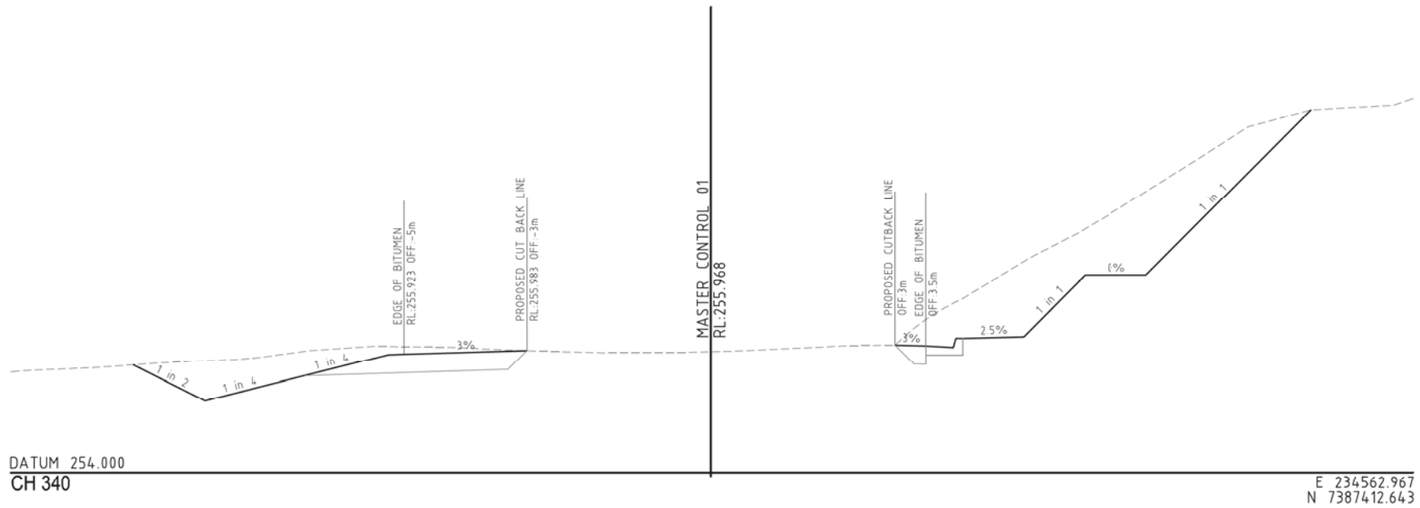
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 3 OF 10

A1 DRAWING NUMBER 1021617-1103 REVISION A

PLOT DATE: 13/04/2017 10:29:56 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1103-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATES\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 3.DWG





1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 340.000 - 360.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

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ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

	BY	DATE
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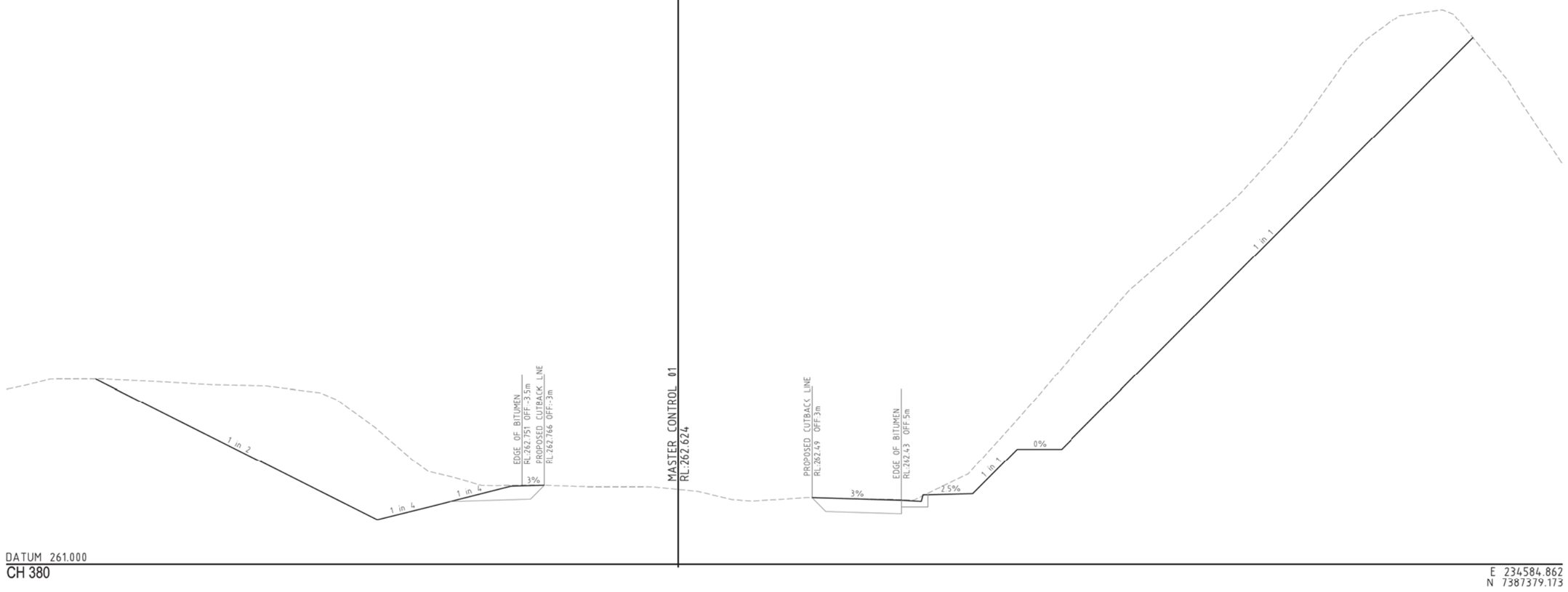
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 4 OF 10

A1 | DRAWING NUMBER 1021617-1104 | REVISION A

PLOT DATE: 13/04/2017 10:29:59 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1002-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 4.DWG



SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 380.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
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HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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RPEQ No:		

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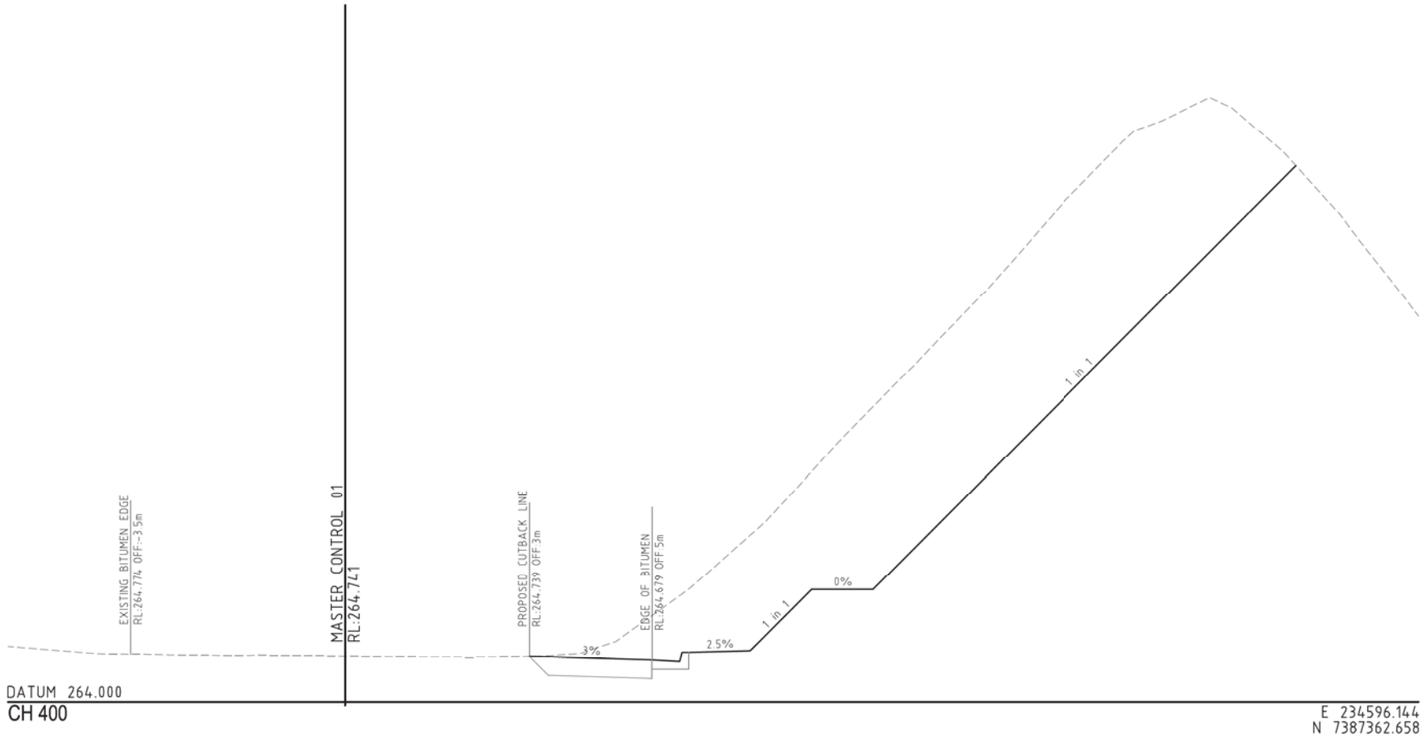
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 5 OF 10

A1 DRAWING NUMBER 1021617-1105 REVISION A

PLOT DATE: 13/04/2017 10:26:09 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021617\ACAD\DRAWINGS\INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBMISSION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 5.DWG



1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 400.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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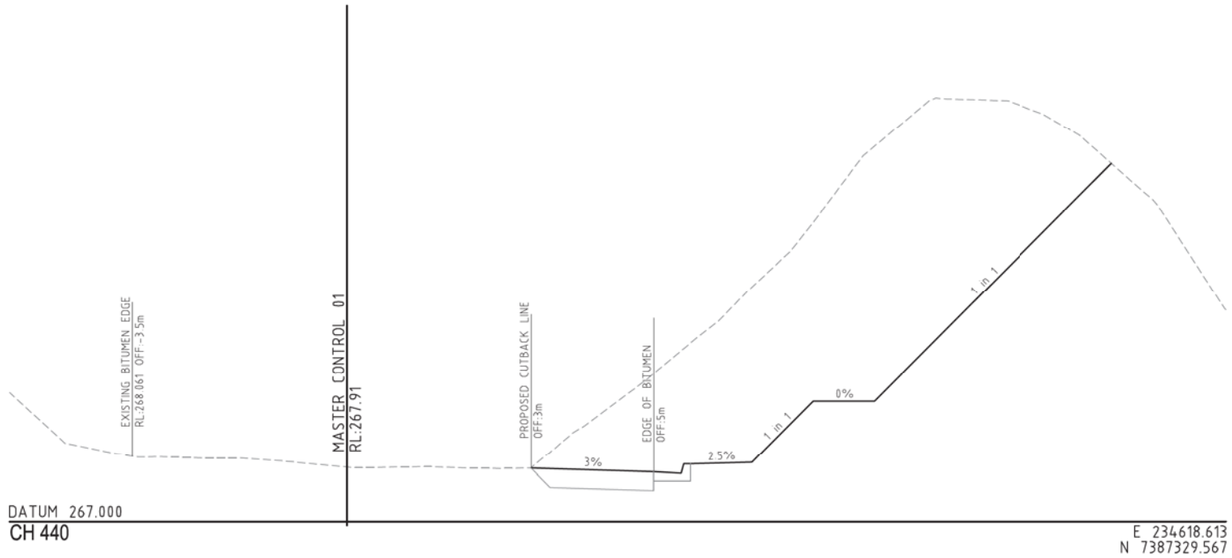
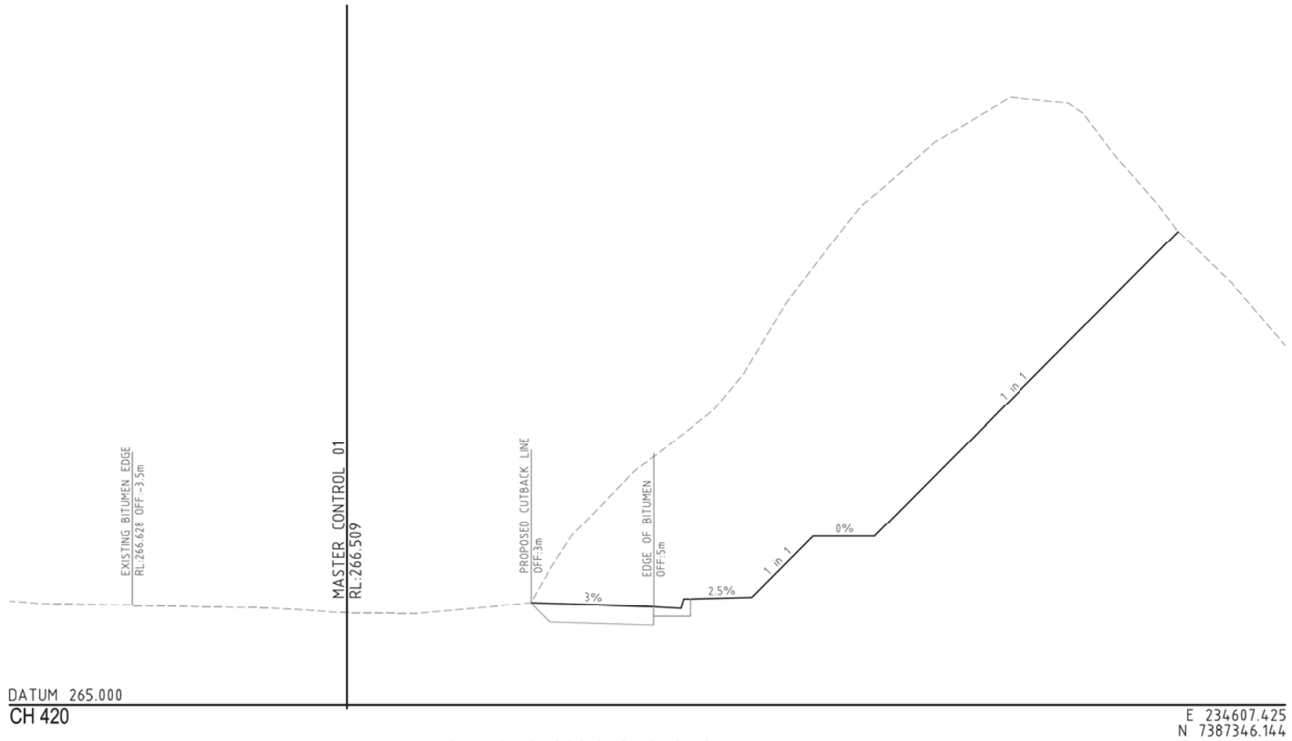
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 6 OF 10

A1 | DRAWING NUMBER 1021617-1106 | REVISION A

PLOT DATE: 13/04/2017 10:35:09 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\102-16-17\CAD\DRAWINGS\SHEET SETS\STANDARD SUBDIVISION\SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 6.DWG





1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 420.000 - 440.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
ADDRESS:					
CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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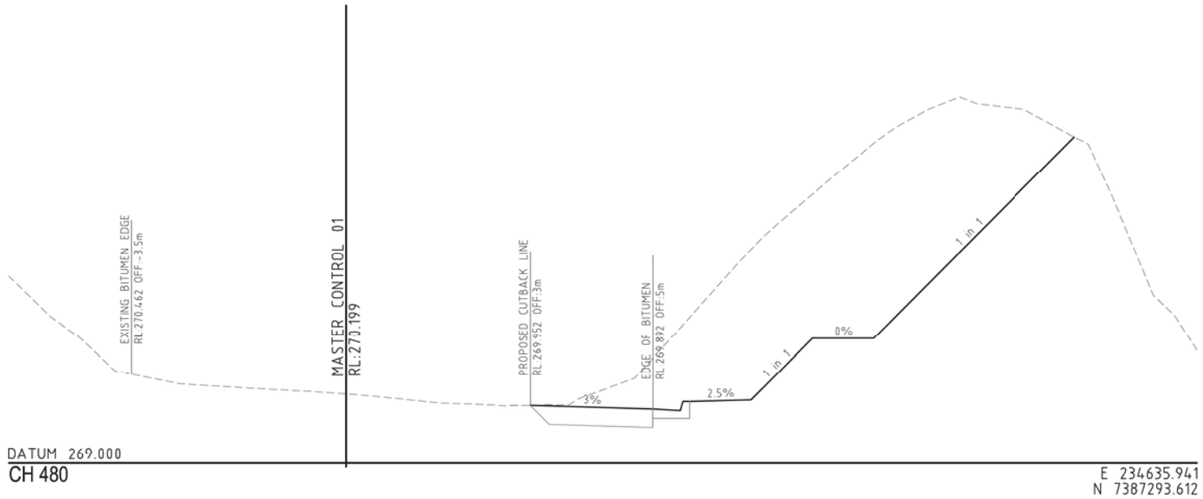
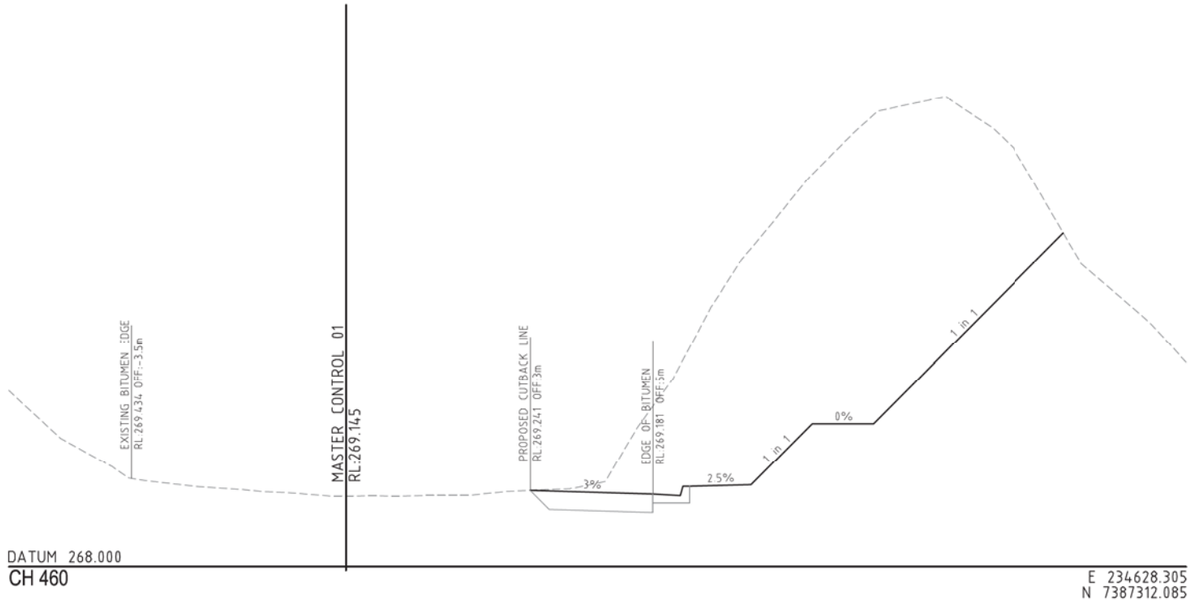
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 7 OF 10

A1 | DRAWING NUMBER 1021617-1107 | REVISION A

DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1021-16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATES\SECTION 1 - BULK EARTHWORKS\SUBDIVISION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 7.DWG

PLOT DATE: 13/04/2017 10:26:15 AM





SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 460.000 - 480.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
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CO-ORDINATE DATUM					
HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
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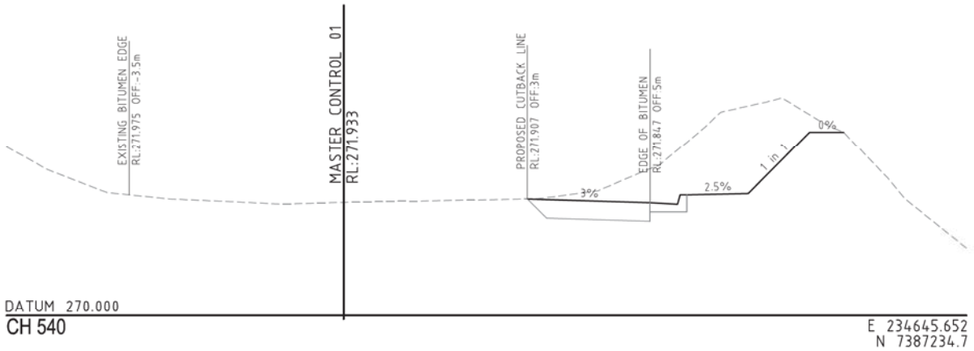
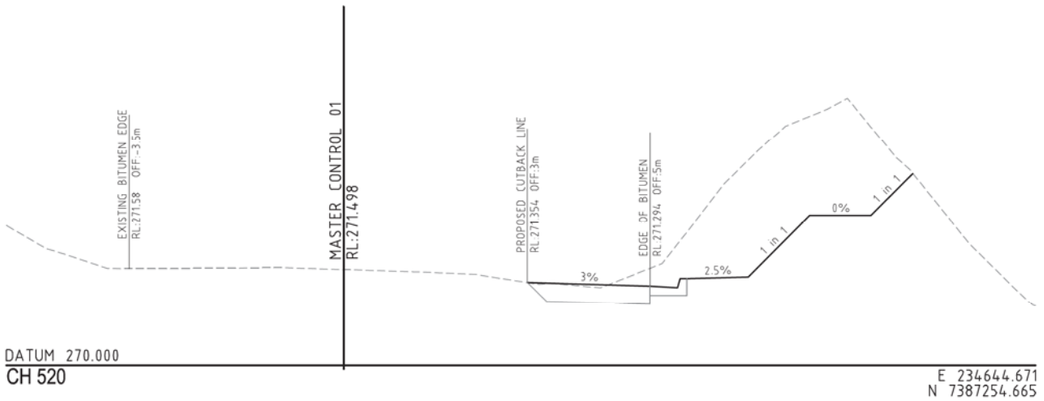
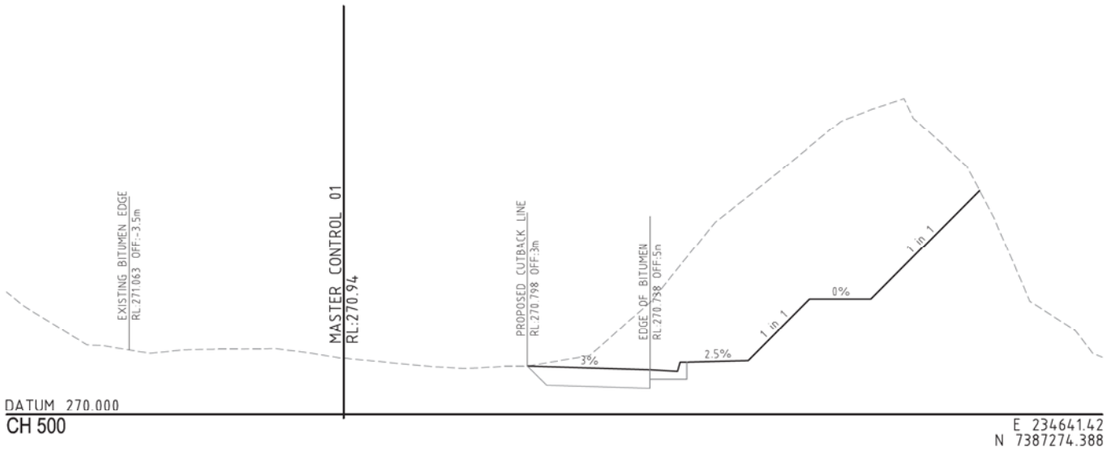
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 8 OF 10

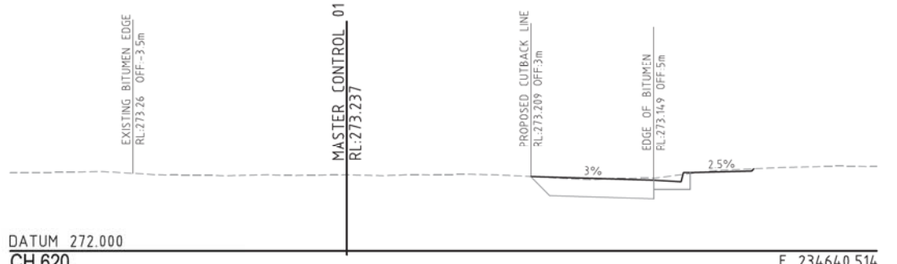
A1 DRAWING NUMBER 1021617-1108 REVISION A

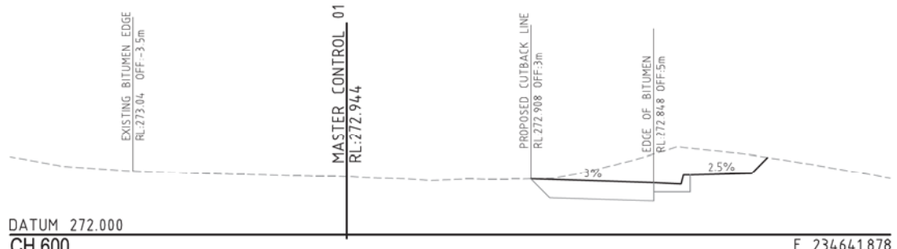
PLOT DATE: 13/04/2017 10:26:20 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1102-16-17\CAD\DRAWINGS\SHEET SETS_INDIVIDUAL DRAWINGS\SHEET SETS\STANDARD SUBMISSION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 8.DWG

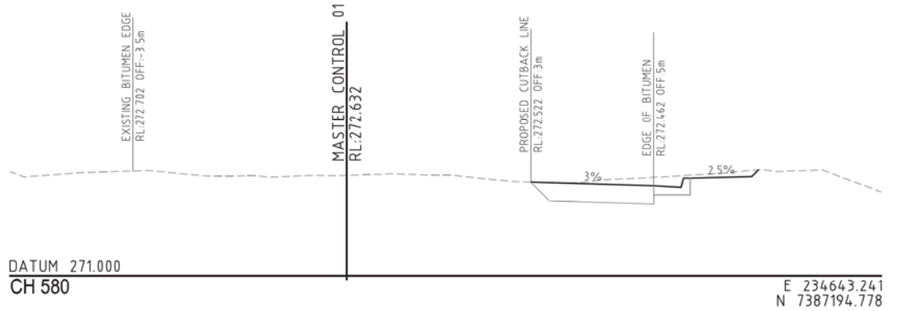


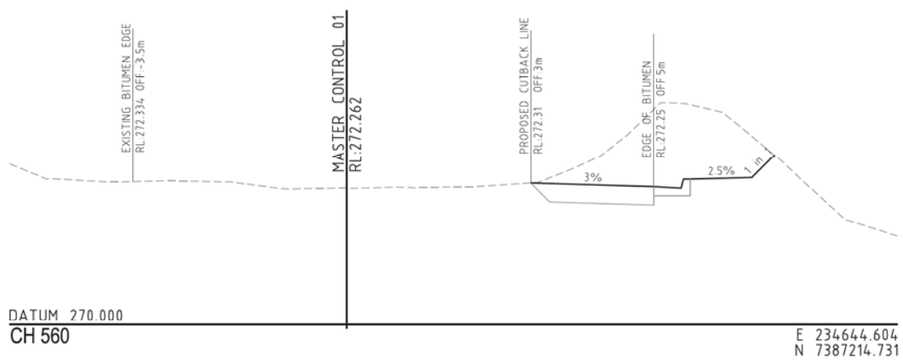












1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 500.000 - 620.000

SCALE: 1:50(A1) 1:100(A3)

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HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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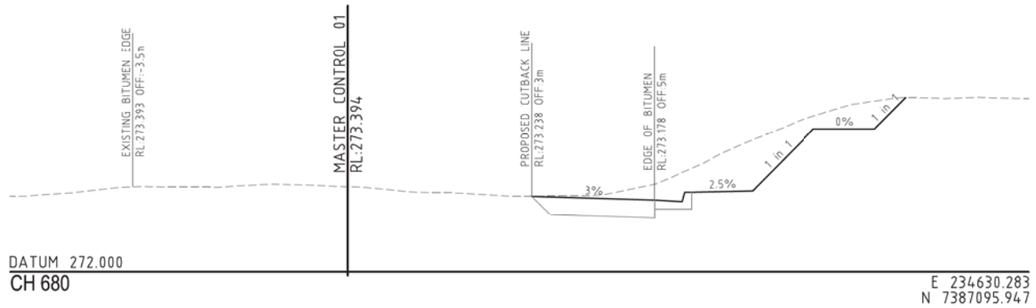
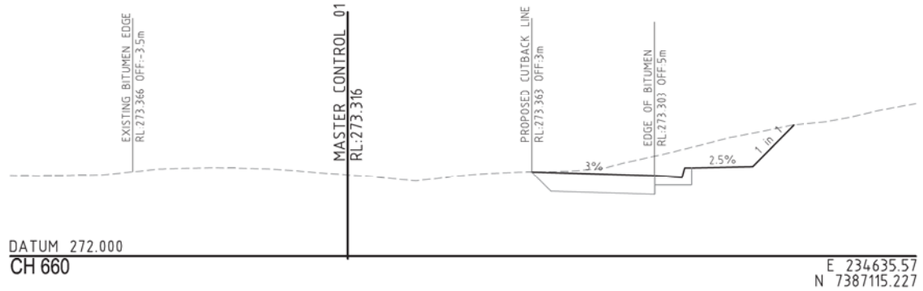
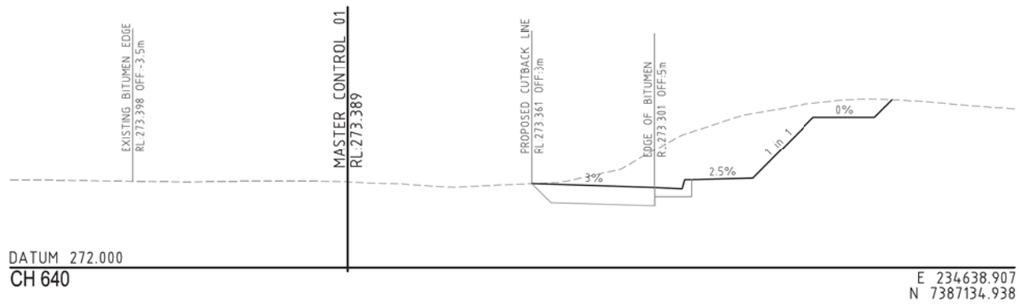
CLIENT CARBINE RESOURCES LIMITED
PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 9 OF 10

A1 DRAWING NUMBER 1021617-1109 REVISION A

PLOT DATE: 13/04/2017 10:30:25 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\16-17\ACAD\DRAWINGS\SHEET SETS\INDIVIDUAL DRAWINGS\SHEET SET TEMPLATES\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 9.DWG







1 0 1 2 3 4 5m

SCALE 1:50 @ A1 SCALE 1:100 @ A3

RAZORBACK CROSS SECTIONS - CH: 640.000 - 680.000

SCALE: 1:50(A1) 1:100(A3)

INFORMATION ONLY

SURVEYOR					
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HEIGHT DATUM	A	13.04.2017	PRELIMINARY ISSUE	RC	RN
	REV	DATE	REVISION DESCRIPTION	DRAFT	DESIGN

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PROJECT MOUNT MORGAN MINE ROUTE UPGRADES
TITLE RAZORBACK ROAD JUMP UP
ROAD CROSS SECTIONS - SHEET 10 OF 10

A1 | DRAWING NUMBER 1021617-1110 | REVISION A

PLOT DATE: 13/04/2017 10:39:39 AM DRAWING LOCATION: S:\PROJECT RECORDS\16-17\1002-16-17\ACAD\DRAWINGS (SHEET SETS, INDIVIDUAL DRAWINGS)\SHEET SETS\STANDARD SUBDIVISION SHEET SET TEMPLATE\SECTION 1 - BULK EARTHWORKS\JUMP UP CROSS SECTIONS - SHEET 10.DWG