

Central Queensland Coal Project

Appendix 16 - Construction Design Drawings

**Supplementary
Environmental Impact
Statement**

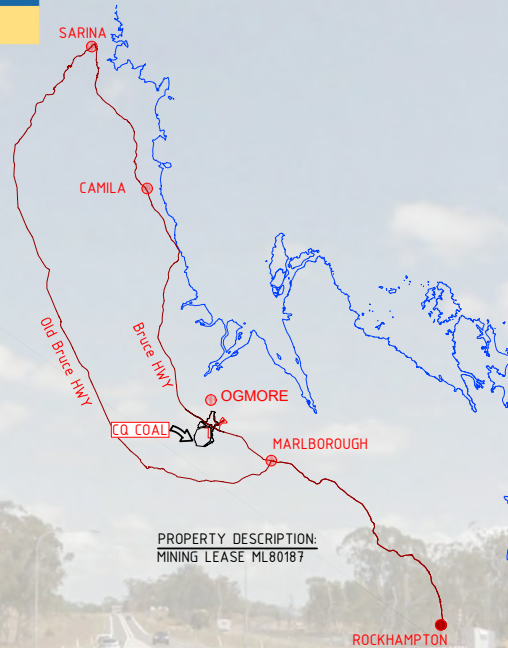


CENTRAL QUEENSLAND COAL



DRAWING INDEX

SHEET	DWG NO.	REV	DESCRIPTION
CIVIL WORKS			
1	G1706-02-GA-1	2	SITE PLAN
BRUCE HIGHWAY INTERSECTION			
2	G1706-02-HWY-1	2	EXISTING FEATURES
3	G1706-02-HWY-2	3	GENERAL ARRANGEMENT
4	G1706-02-HWY-3	2	TYPE CROSS SECTION & DETAILS



IMPORTANT NOTICE

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES UNLESS DIRECTED OTHERWISE. SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM <http://www.cmdg.com.au/>.
2. THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
3. THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
4. AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
5. THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
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EXISTING LEVELS AND SERVICES

1. NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
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3. PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

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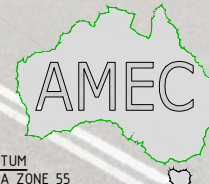


BRUCE HIGHWAY INTERSECTION JOB NO. G1706/02



DATUM
MGA ZONE 55

AUSTRALIAN MINING ENGINEERING
CONSULTANTS



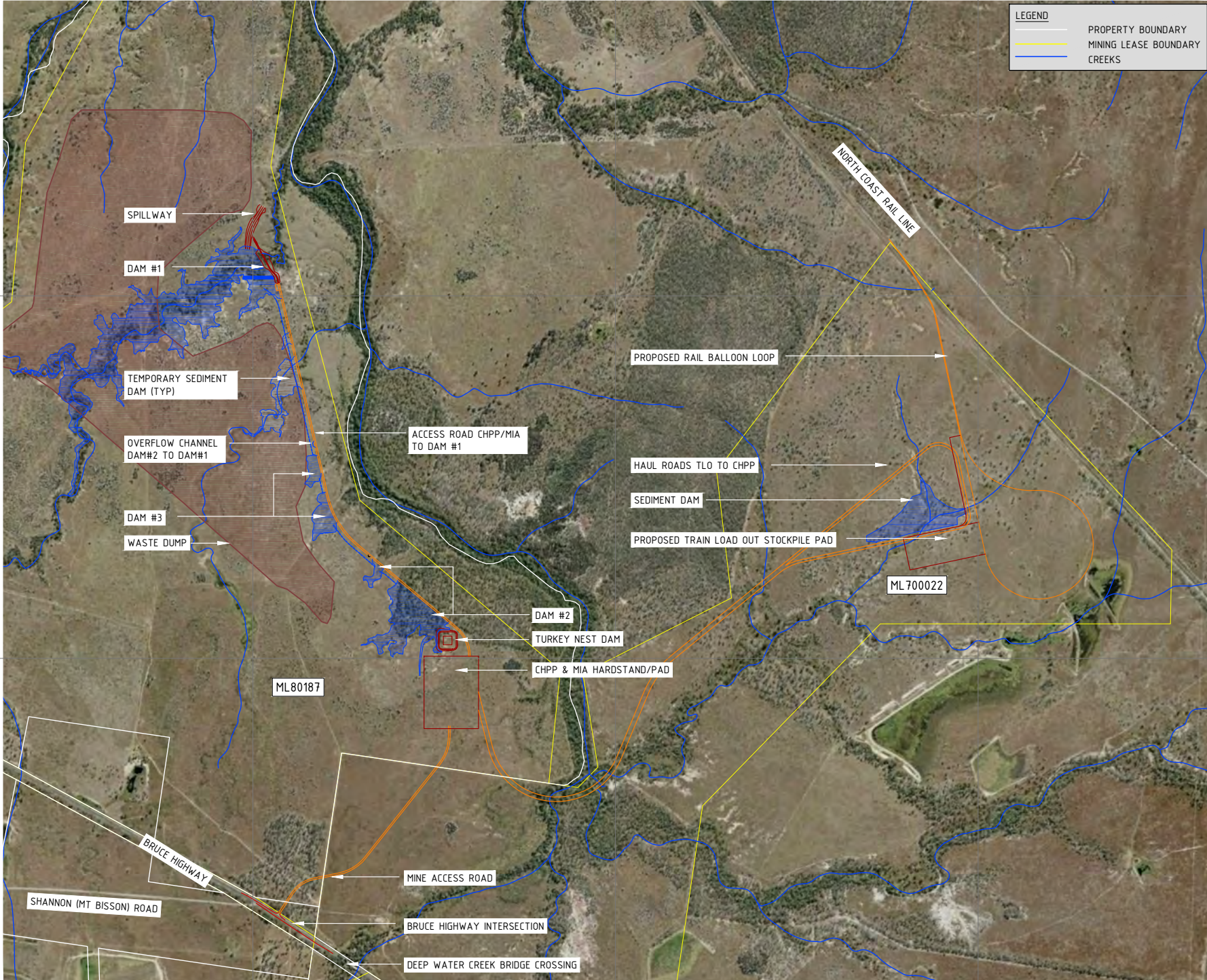
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778150.000mE

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE	DATE	SUBJECT
1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

SITE PLAN

TITLE NO: G1706-02-GA1.DWG

JOB NO: G1706/02

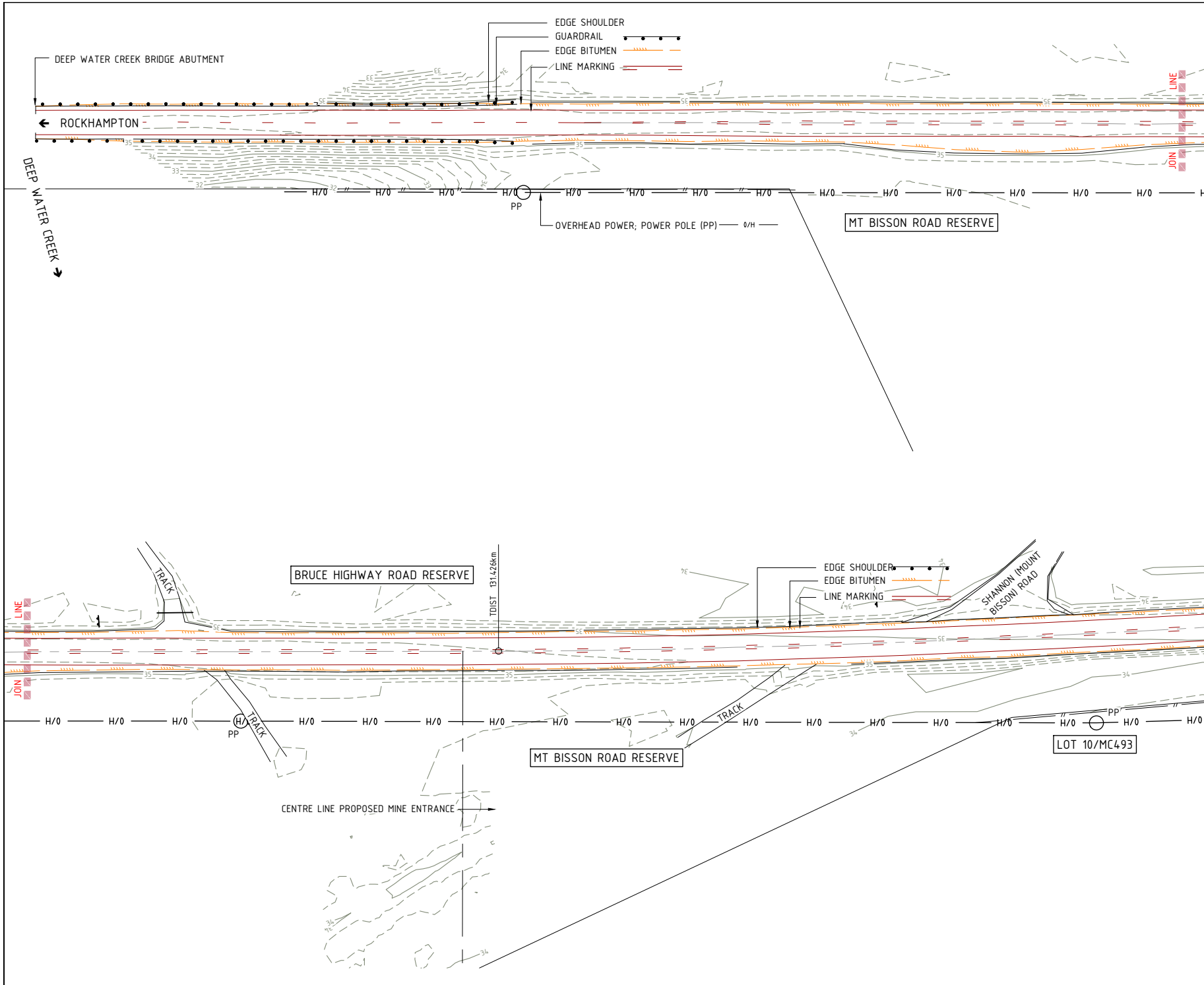
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E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-HWY1 (HWY Intersection Exist Features).dwg, HWY1-2, 31/07/2018 12:32:22 PM



DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



CSG

capricorn_survey_group (cq)
capricorn survey group (cq) pte
250 quay street, rockhampton
ph: 0749275199
email: reception@csgcq.com.au
SURVEY ON MGA ZONE 55
(GROUND) VIDE PSM134.485;
CONTOURS 0.25m EXIST.
SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

FIRST ISSUE

AMENDMENTS			
ISSUE	DATE	SUBJECT	INITIALS
1	16/05/18	FIRST ISSUE	GK
2	29/06/18	UPDATED POST THR	GK

XREF FILES	TITLE
DRAWING NO: G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17
DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR USE DATE 23/07/17

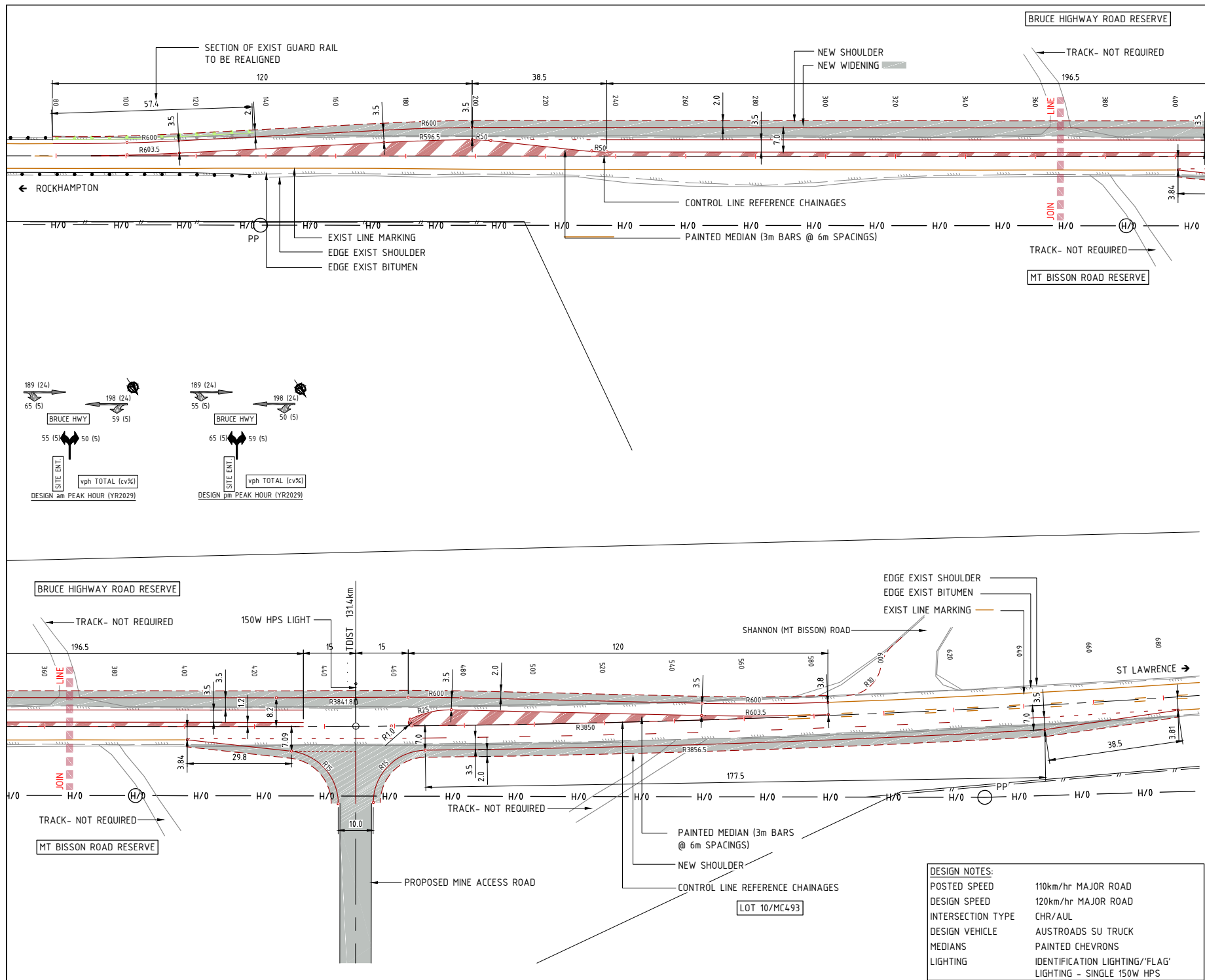
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
BRUCE HIGHWAY INTERSECTION
EXISTING FEATURES

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JOB NO: G1706/02
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DRAWING NUMBER: G1706-02-HWY-1
ISSUE SHEET NO: 2 2

PRINT IN COLOUR

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DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

CSG
 capricorn survey group (cq)
 capricorn survey group (cq) pte
 250 quay street, rockhampton
 ph: 0749275199
 email: reception@csgcq.com.au

SURVEY ON MGA ZONE 55
 (GROUND) VIDE PSM134.485;
 CONTOURS 0.25m EXIST.
 SURFACE

Central Queensland Coal

COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

FIRST ISSUE

ISSUE	DATE	SUBJECT	INITIALS
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2	29/06/18	UPDATED POST THR	GK
3	11/07/18	UPDATED FOR 120kph DESIGN	GK

XREF FILES	DRAWING NO.	TITLE
	G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17
 DESIGN: ASC DATE 22/07/17

AMEC
 AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 BRUCE HIGHWAY INTERSECTION
 GENERAL ARRANGEMENT

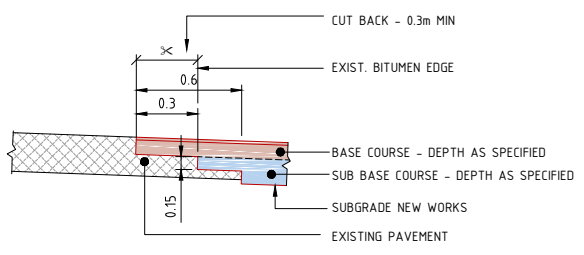
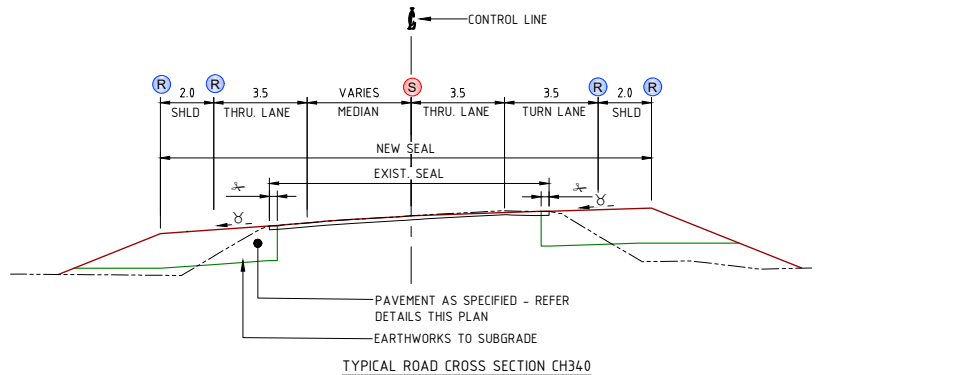
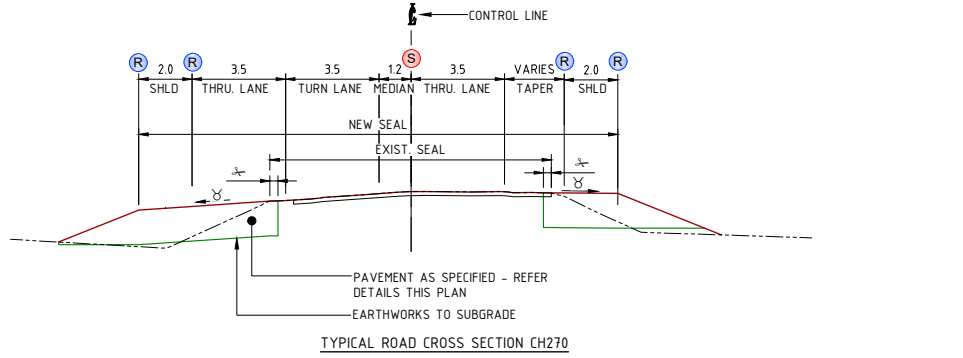
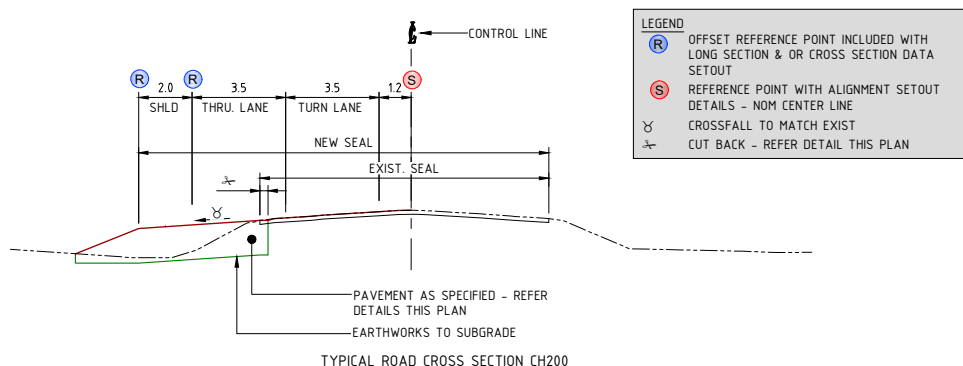
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DESIGN NOTES:

POSTED SPEED	110km/hr MAJOR ROAD
DESIGN SPEED	120km/hr MAJOR ROAD
INTERSECTION TYPE	CHR/AUL
DESIGN VEHICLE	AUSTROADS SU TRUCK
MEDIANS	PAINTED CHEVRONS
LIGHTING	IDENTIFICATION LIGHTING/'FLAG' LIGHTING - SINGLE 150W HPS

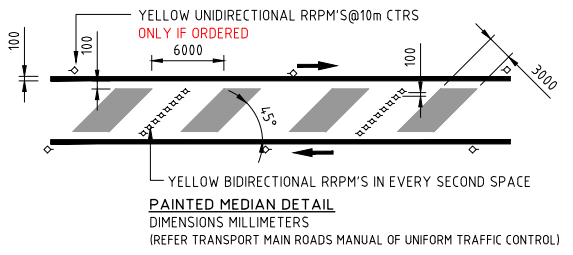
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PAVEMENT DETAILS:

DESIGN SUBGRADE STRENGTH 3%
DESIGN TRAFFIC 1*10⁷ ESA
2-COAT BITUMEN SEAL
BASE COURSE 160mm COMPACTED DEPTH TYPE 2.1 GRAVEL;
SUB-BASE(1) COURSE 240mm COMPACTED DEPTH TYPE 2.3 GRAVEL;
SUB-BASE(2) COURSE 250mm COMPACTED DEPTH TYPE 2.5 GRAVEL CBR 15%
INITIALLY BOX OUT 650mm TOTAL DEPTH



LINE MARKING DETAILS

(BL) BROKEN LANE LINE		80
(BL1) BARRIER LINE ONE DIRECTION		80
(BL2) BARRIER LINE BOTH DIRECTIONS		80
(CL) CONTINUITY LINE		200
(EL) EDGE LINE		100
(GWL) GIVEWAY LINE		200
(HL) HOLDING LINE		300
(ULL) UNBROKEN LANE LINE		80

KEY TO RRP TYPES:-

- UNIDIRECTIONAL WHITE: □
- BIDIRECTIONAL WHITE: ◊
- UNIDIRECTIONAL RED: ◻
- UNIDIRECTIONAL YELLOW: ◼
- BIDIRECTIONAL YELLOW: ◈

LINE TYPE (LENGTH) HL (13)

(REFER TRANSPORT MAIN ROADS MANUAL OF UNIFORM TRAFFIC CONTROL)

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

CSG
capricorn_survey_group (cq)
capricorn survey group (cq) pte
250 quay street, rockhampton
ph: 0749275199
email: reception@csgcq.com.au
SURVEY ON MGA ZONE 55
(GROUND) VIDE PSM134485

Central Queensland Coal
COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

FIRST ISSUE

AMENDMENTS

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AMEC
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PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
BRUCE HIGHWAY INTERSECTION
TYPE CROSS SECTIONS AND
DETAILS

TITLE NO G1706-02-HWY3.DWG
JOB NO G1706/02
SCALE NOT TO SCALE AT A3 SIZE
DRAWING NUMBER ISSUE SHEET NO
G1706-02-HWY-3 2 4

PRINT IN COLOUR



CENTRAL QUEENSLAND COAL



DRAWING INDEX

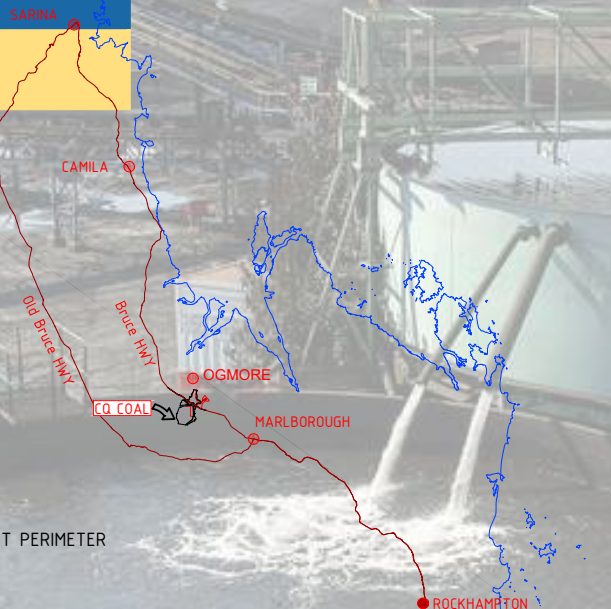
SHEET	DWG NO.	REV	DESCRIPTION
T			

CIVIL WORKS

1	G1706-02-GA-1	2	SITE PLAN
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MINE ACCESS ROAD

2	G1706-02-MIA-1	1	FINISHED SURFACE DETAILS
3	G1706-02-MIA-2	1	TYPICAL SITE SECTIONS
4	G1706-02-MIA-3	1	LONGITUDINAL SECTION & SETOUT PERIMETER DRAIN #1
5	G1706-02-MIA-4	1	LONGITUDINAL SECTION & SETOUT PERIMETER DRAIN #2
6	G1706-02-MIA-5	1	TYPE CROSS SECTIONS



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PROPERTY DESCRIPTION:
MINING LEASE ML80187

DATUM
MGA ZONE 55



CENTRAL QUEENSLAND COAL MINE MIA/CHPP HARDSTAND FACILITY JOB NO. G1706/02



AUSTRALIAN MINING ENGINEERING
CONSULTANTS

INDEX DRAWINGS

G1706-02-MIA-0

FIRST ISSUE 180715

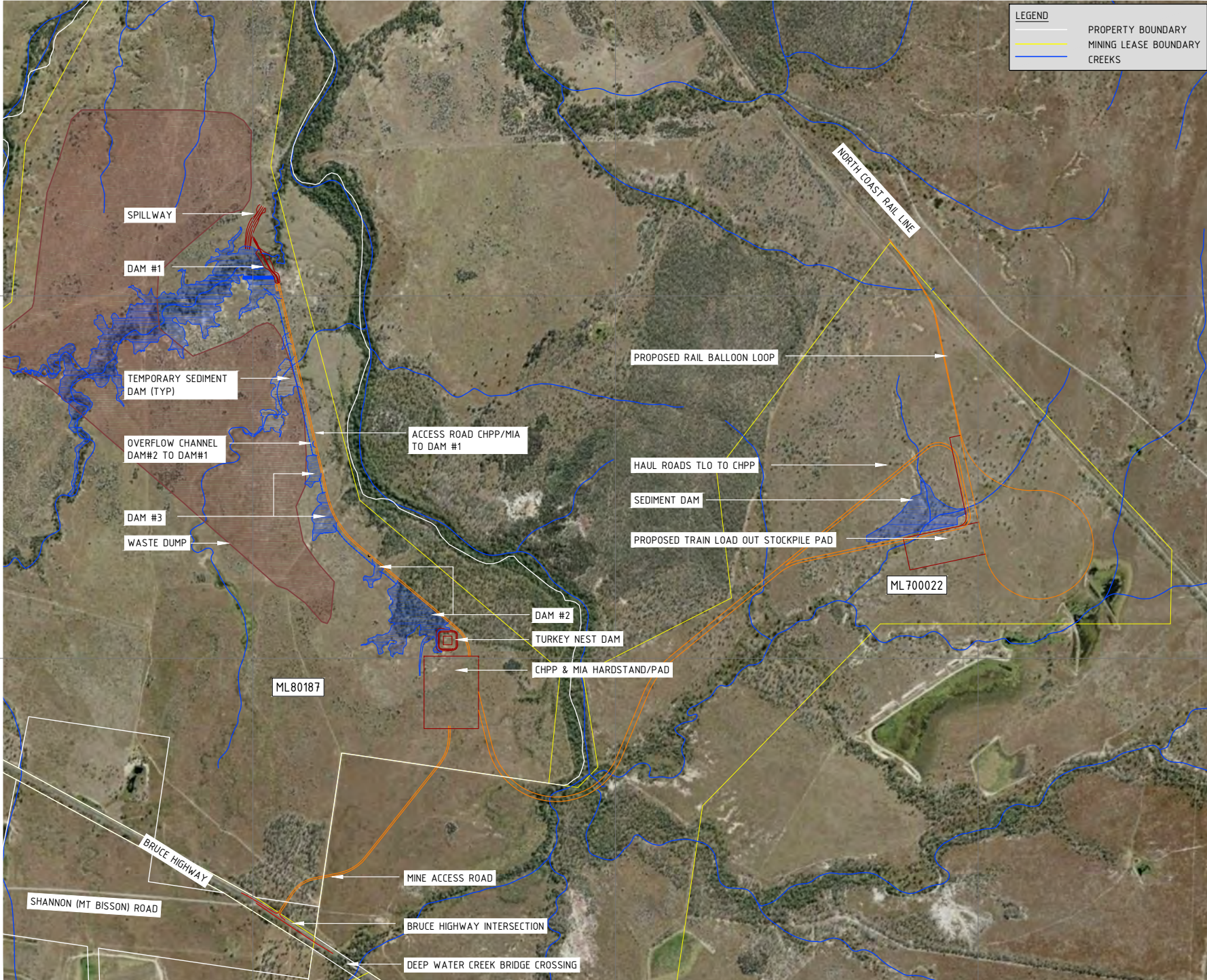
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LEGEND

- PROPERTY BOUNDARY
- MINING LEASE BOUNDARY
- CREEKS

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55



CAE COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

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 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 SITE PLAN

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 JOB NO: G1706/02
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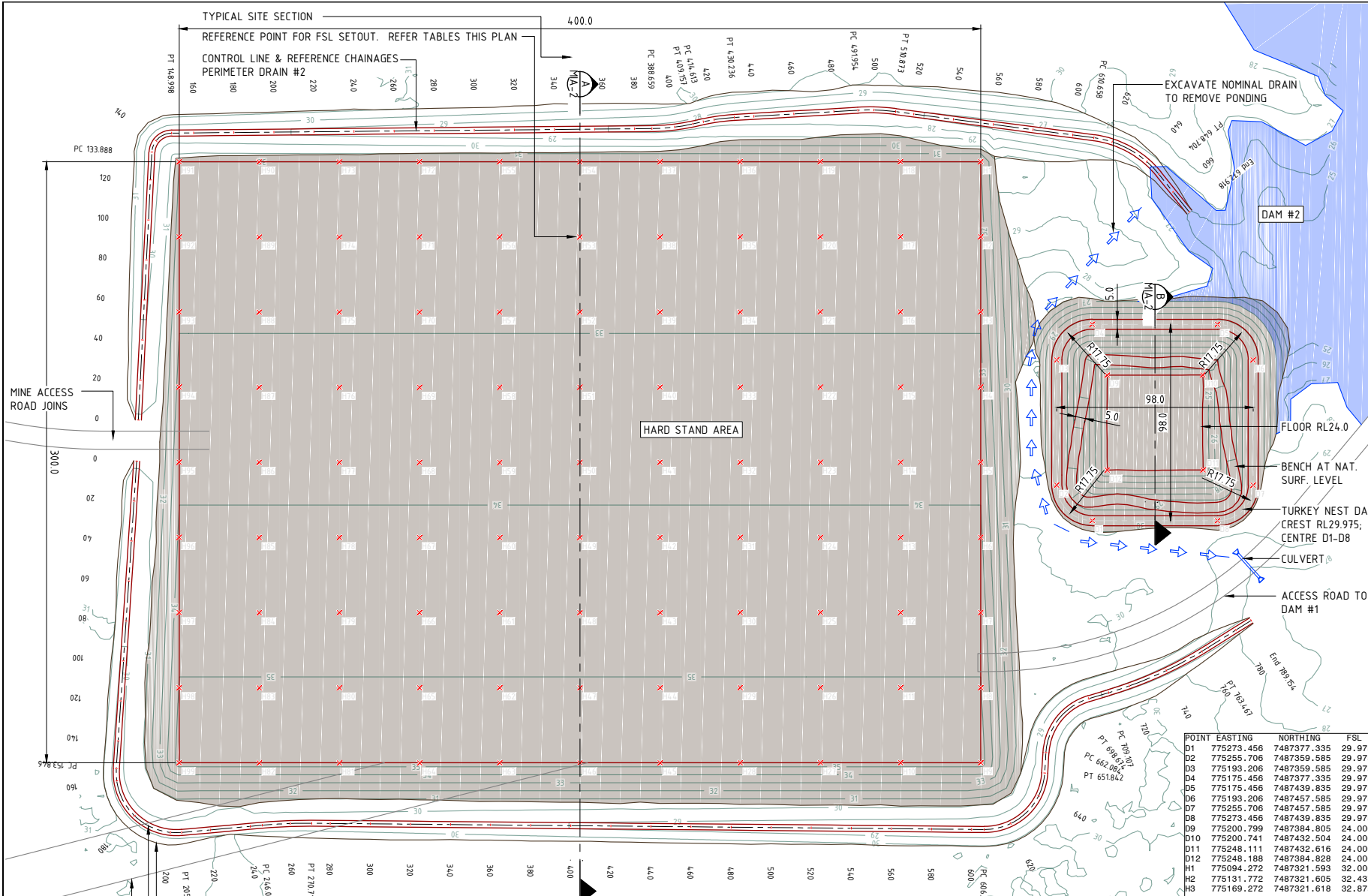
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E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-GA1 (Civil Works Site Plan).dwg_GA1_31/07/2018 11:44:52 AM

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POINT EASTING	NORTHING	FSL	POINT EASTING	NORTHING	FSL	POINT EASTING	NORTHING	FSL	POINT EASTING	NORTHING	FSL
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H85	775281.892	7486961.656	34.189	H66	775319.366	7487041.668	34.626	H47	775356.839	7487121.681	35.063
H86	775244.392	7486961.643	33.751	H67	775281.866	7487041.656	34.189	H48	775319.339	7487121.668	34.626
H87	775206.892	7486961.631	33.314	H68	775244.366	7487041.643	33.751	H49	775281.839	7487121.656	34.188
H88	775169.392	7486961.618	32.876	H69	775206.866	7487041.631	33.314	H50	775244.339	7487121.643	33.751
H89	775131.892	7486961.606	32.439	H70	775169.366	7487041.618	32.876	H51	775206.839	7487121.631	33.313
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H92	775019.392	7486961.568	31.126	H73	775056.866	7487041.581	31.564	H54	775094.339	7487121.593	32.001
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H94	775019.392	7486961.568	31.126	H75	775019.392	7486961.568	31.126	H56	775019.366	7487041.606	32.438
H95	775019.392	7486961.568	31.126	H76	775019.392	7486961.568	31.126	H57	775019.339	7487041.618	32.876
H96	775019.392	7486961.568	31.126	H77	775019.392	7486961.568	31.126	H58	775019.312	7487041.631	33.313
H97	775019.392	7486961.568	31.126	H78	775019.392	7486961.568	31.126	H59	775019.286	7487041.643	33.751
H98	775019.392	7486961.568	31.126	H79	775019.392	7486961.568	31.126	H60	775019.260	7487041.656	34.188
H99	775019.392	7486961.568	31.126	H80	775019.392	7486961.568	31.126	H61	775019.234	7487041.668	34.626
				H81	775019.392	7486961.568	31.126	H62	775019.208	7487041.681	35.063
				H82	775019.392	7486961.568	31.126	H63	775019.182	7487041.693	35.477
								H64	775019.156	7487041.706	35.891
								H65	775019.130	7487041.718	36.305
								H66	775019.104	7487041.731	36.719
								H67	775019.078	7487041.743	37.133
								H68	775019.052	7487041.756	37.547
								H69	775019.026	7487041.768	37.961
								H70	775019.000	7487041.781	38.375
								H71	775018.974	7487041.793	38.789
								H72	775018.948	7487041.806	39.203
								H73	775018.922	7487041.818	39.617
								H74	775018.896	7487041.831	40.031
								H75	775018.870	7487041.843	40.445
								H76	775018.844	7487041.856	40.859
								H77	775018.818	7487041.868	41.273
								H78	775018.792	7487041.881	41.687
								H79	775018.766	7487041.893	42.101
								H80	775018.740	7487041.906	42.515
								H81	775018.714	7487041.918	42.929
								H82	775018.688	7487041.931	43.343
								H83	775018.662	7487041.943	43.757
								H84	775018.636	7487041.956	44.171
								H85	775018.610	7487041.968	44.585
								H86	775018.584	7487041.981	45.000
								H87	775018.558	7487041.993	45.414
								H88	775018.532	7487042.006	45.828
								H89	775018.506	7487042.018	46.242
								H90	775018.480	7487042.031	46.656
								H91	775018.454	7487042.043	47.070
								H92	775018.428	7487042.056	47.484
								H93	775018.402	7487042.068	47.898
								H94	775018.376	7487042.081	48.312
								H95	775018.350	7487042.093	48.726
								H96	775018.324	7487042.106	49.140
								H97	775018.298	7487042.118	49.554
								H98	775018.272	7487042.131	49.968
								H99	775018.246	7487042.143	50.382

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE

COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE DATE	SUBJECT	INITIALS
15/07/18	FIRST ISSUE	DK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN	ASC	DATE 05/18
DESIGN	ASC	DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

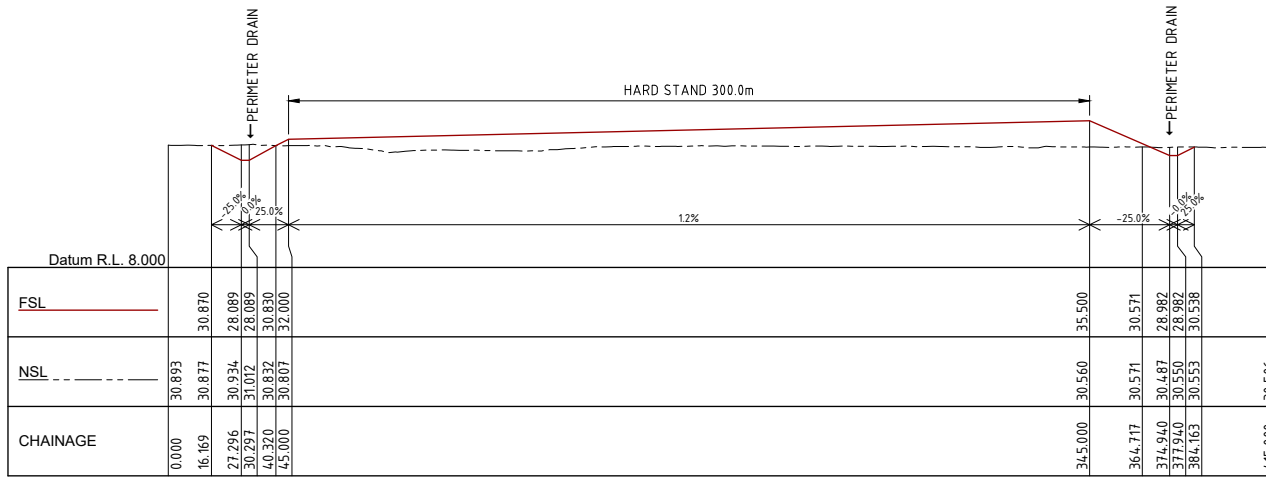
AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

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APPROVED FOR ISSUE DATE 23/07/17

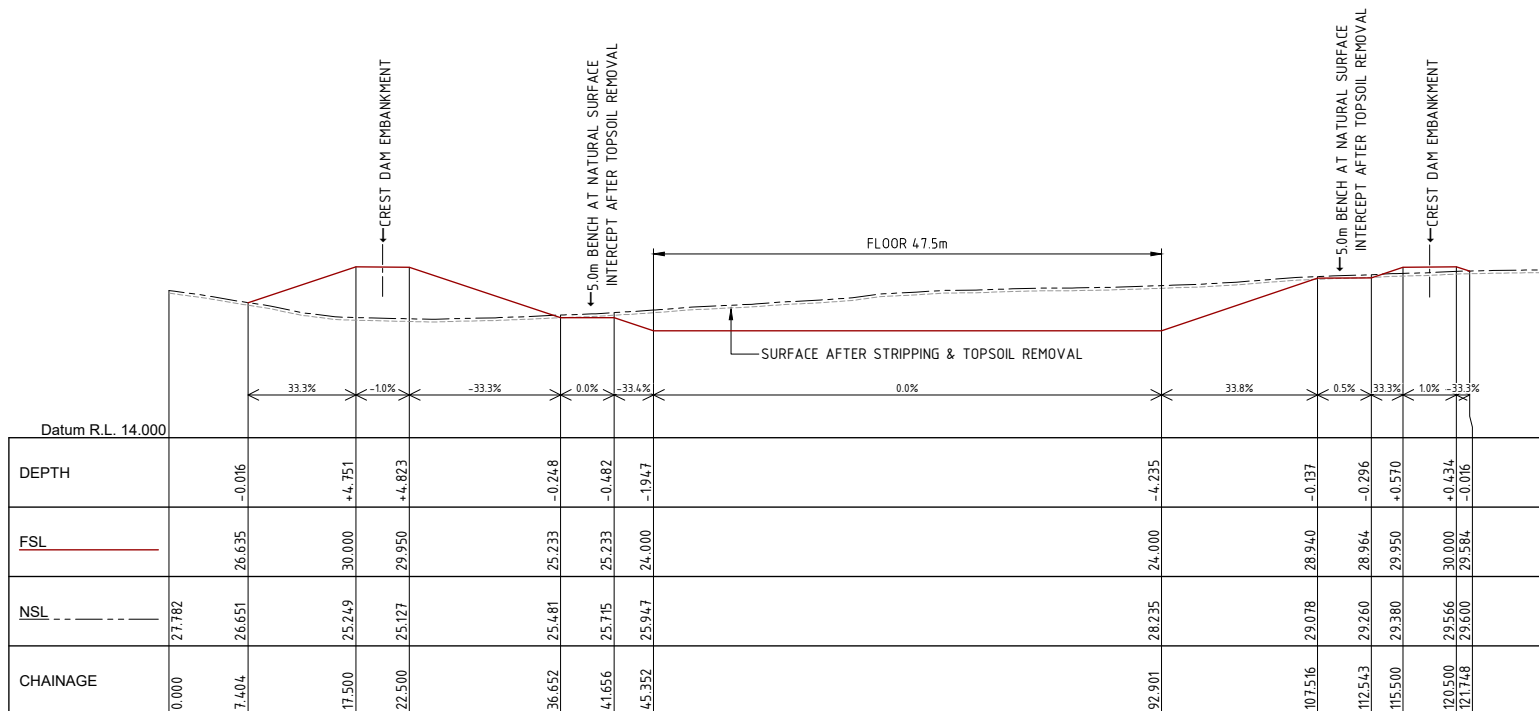
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
CHPP/MIA HARDSTAND FACILITY
FINISHED SURFACE DETAILS

FILE NO.	G1706-02-MIA1.DWG
JOB NO.	G1706/02
SCALE	0 12000 HORZ. 40 V. A3 SIZE
DRAWING NUMBER	ISSUE SHEET NO.
G1706-02-MIA-1	1 2

PRINT IN COLOR



Scale Horizontal 1:2000 Vertical 1:1000 TYPICAL SITE SECTION A-A. REFER PLAN MIA-5 FOR TYPE CROSS SECTION DETAILS



Scale Horizontal 1:500 Vertical 1:500 TYPICAL SITE SECTION B-B. REFER PLAN MIA-5 FOR TYPE CROSS SECTION DETAILS

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55



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AMENDMENTS		
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XREF FILES	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



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CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
CHPP/MIA HARDSTAND FACILITY
TYPICAL SITE SECTIONS

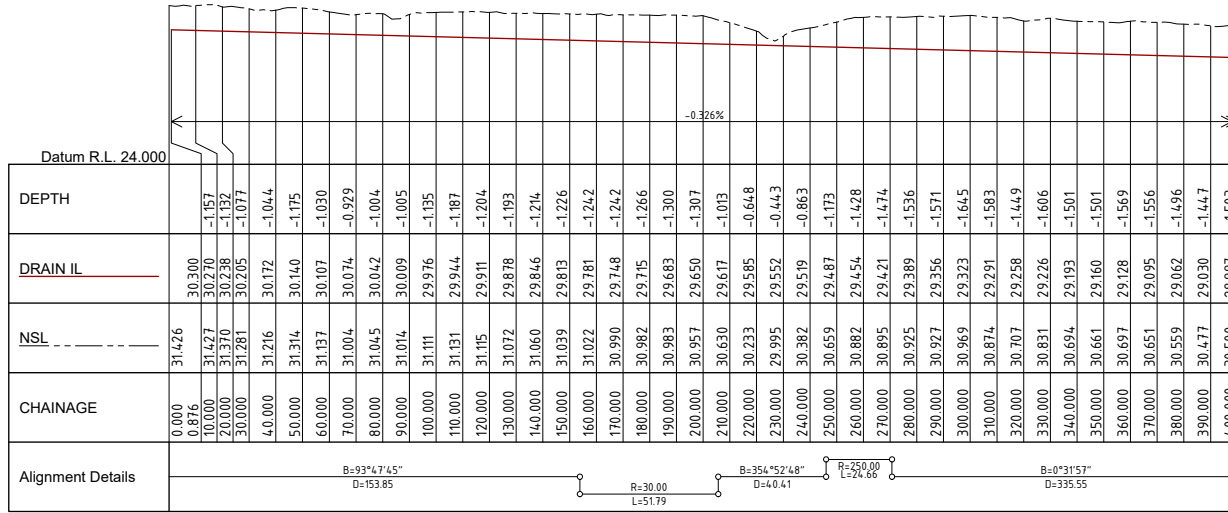
FILL NO G1706-02-MIA1.DWG

JOB NO G1706/02

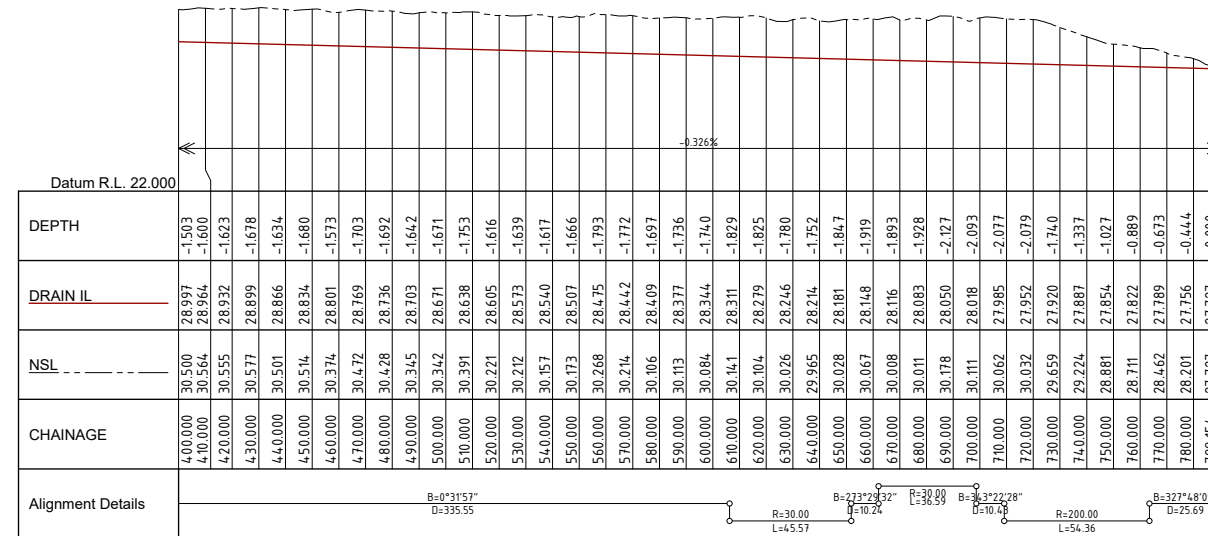
SCALE 0 1:2000 HORIZ 40 AT A3 SIZE
0 1:1000 VERT 20

DRAWING NUMBER G1706-02-MIA-2 ISSUE SHEET NO 1 3

PRINT IN COLOUR



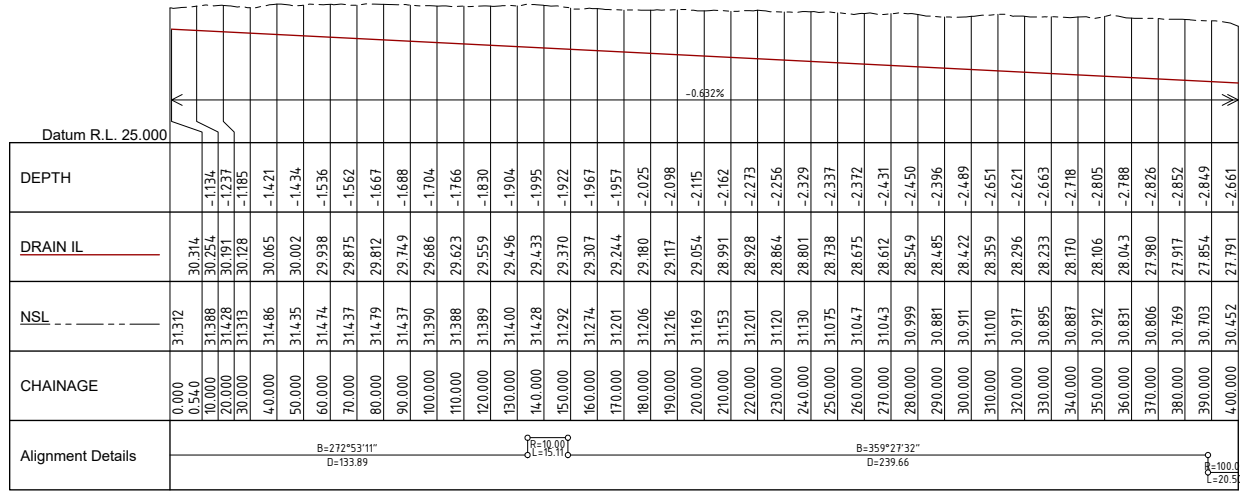
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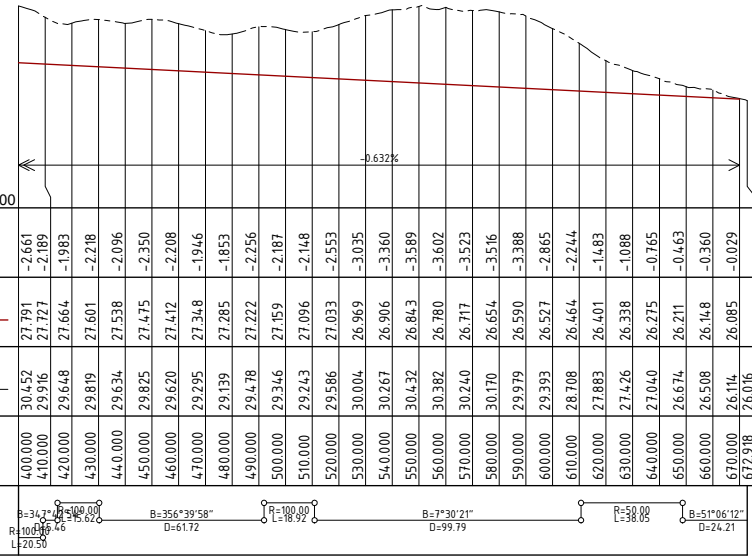
Scale Horizontal 1:2000 Vertical 1:250

CHAINAGE	EASTING	NORTHING
0.00	775243.686	7486900.498
10.00	775253.664	7486899.836
20.00	775263.642	7486899.174
30.00	775273.620	7486898.512
40.00	775283.598	7486897.850
50.00	775293.576	7486897.188
60.00	775303.554	7486896.526
70.00	775313.532	7486895.864
80.00	775323.510	7486895.202
90.00	775333.488	7486894.540
100.00	775343.467	7486893.878
110.00	775353.445	7486893.215
120.00	775363.423	7486892.553
130.00	775373.401	7486891.891
140.00	775383.379	7486891.229
150.00	775393.357	7486890.567
160.00	775403.334	7486890.536
170.00	775412.826	7486893.530
180.00	775420.817	7486899.465
190.00	775426.425	7486907.689
200.00	775429.035	7486917.294
210.00	775428.672	7486927.268
220.00	775427.779	7486937.229
230.00	775426.887	7486947.189
240.00	775425.994	7486957.149
250.00	775425.133	7486967.112
260.00	775424.598	7486977.097
270.00	775424.462	7486987.095
280.00	775424.554	7486997.094
290.00	775424.647	7487007.094
300.00	775424.740	7487017.094
310.00	775424.833	7487027.093
320.00	775424.926	7487037.093
330.00	775425.019	7487047.092
340.00	775425.112	7487057.092
350.00	775425.205	7487067.091
360.00	775425.298	7487077.091
370.00	775425.391	7487087.091
380.00	775425.484	7487097.090
390.00	775425.577	7487107.090

CHAINAGE	EASTING	NORTHING
400.00	775425.670	7487117.089
410.00	775425.762	7487127.089
420.00	775425.855	7487137.088
430.00	775425.948	7487147.088
440.00	775426.041	7487157.088
450.00	775426.134	7487167.087
460.00	775426.227	7487177.087
470.00	775426.320	7487187.086
480.00	775426.413	7487197.086
490.00	775426.506	7487207.085
500.00	775426.599	7487217.085
510.00	775426.692	7487227.085
520.00	775426.785	7487237.084
530.00	775426.878	7487247.084
540.00	775426.971	7487257.083
550.00	775427.064	7487267.083
560.00	775427.157	7487277.082
570.00	775427.250	7487287.082
580.00	775427.343	7487297.082
590.00	775427.436	7487307.081
600.00	775427.529	7487317.081
610.00	775427.622	7487327.073
620.00	775424.622	7487336.634
630.00	775418.878	7487344.763
640.00	775410.791	7487350.566
650.00	775401.250	7487353.403
660.00	775391.273	7487354.068
670.00	775381.446	7487355.708
680.00	775372.670	7487360.406
690.00	775365.915	7487367.716
700.00	775361.895	7487376.826
710.00	775359.032	7487386.408
720.00	775355.890	7487395.900
730.00	775352.278	7487405.224
740.00	775348.204	7487414.355
750.00	775343.679	7487423.272
760.00	775338.714	7487431.951
770.00	775333.411	7487440.429
780.00	775328.082	7487448.891
789.154	775323.204	7487456.637



Scale Horizontal 1:2000 Vertical 1:250



Scale Horizontal 1:2000 Vertical 1:250

DRAIN CONTROL LINE ALIGNMENT SETOUT			
- CHARACTERISTICS -	- LENGTH -	- EASTING -	- NORTHING -
STRAIGHT	272°53'11"	133.888	0.000
XC =	775089.993	15.110	7486901.305
YC =	7486918.034		7486908.047
R =	10.000		
STRAIGHT	359°27'32"	239.662	148.998
XC =	774977.734	20.497	775079.993
YC =	7487156.647		7486917.940
R =	100.000		
STRAIGHT	347°42'54"	5.456	388.659
XC =	775171.994	15.623	775077.730
YC =	7487204.533		7487157.591
R =	100.000		
STRAIGHT	356°39'58"	61.718	409.157
XC =	775168.404	18.919	775075.444
YC =	7487266.147		7487177.924
R =	100.000		
STRAIGHT	7°30'21"	99.785	414.613
XC =	775193.245	18.919	775074.283
YC =	7487266.147		7487183.256
R =	100.000		
STRAIGHT	7°30'21"	99.785	510.873
XC =	775131.868	38.046	775069.261
YC =	7487371.609		7487279.210
R =	50.000		
STRAIGHT	51°06'12"	24.213	610.658
XC =	775100.472	38.046	775082.296
YC =	7487371.609		7487378.140
R =	50.000		
STRAIGHT	51°06'12"	24.213	648.704
XC =	775119.316	38.046	775100.472
YC =	7487371.609		7487410.523
R =	50.000		
STRAIGHT	51°06'12"	24.213	672.918
XC =	775119.316	38.046	775119.316
YC =	7487371.609		7487425.727
R =	50.000		

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	APPROVED
15/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

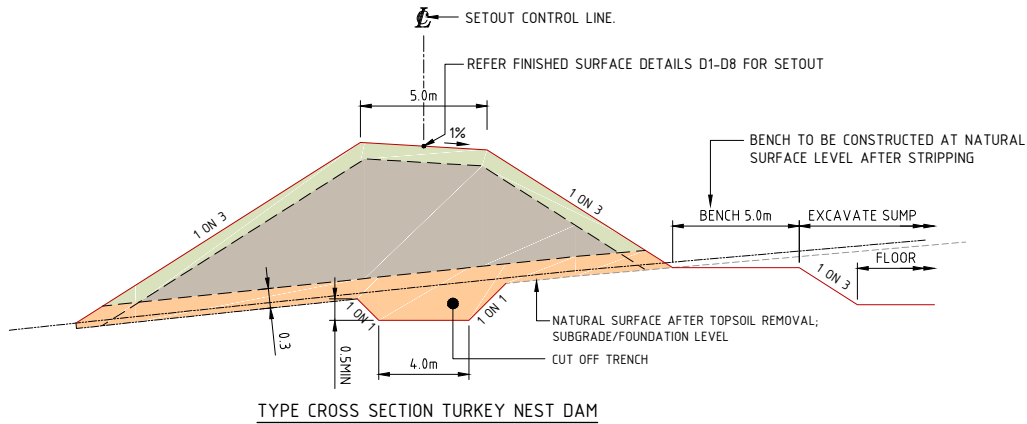
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
CHPP/MIA HARDSTAND FACILITY
LONGITUDINAL SECTION & SETOUT
PERIMETER DRAIN #2

FILL NO G1706-02-MIA1.DWG
JOB NO G1706/02

SCALE 0 1:2000 HORZ 40 AT A3 SIZE
0 1:250 VERT 5

DRAWING NUMBER 15
ISSUE SHEET NO 1

DRAIN CENTRE LINE CHAINAGE SETOUT		
CHAINAGE	EASTING	NORTHING
0.000	775223.207	7486901.305
10.000	775213.220	7486901.809
20.000	775203.233	7486902.312
30.000	775193.245	7486902.816
40.000	775183.258	7486903.319
50.000	775173.271	7486903.823
60.000	775163.283	7486904.326
70.000	775153.296	7486904.830
80.000	775143.309	7486905.334
90.000	775133.321	7486905.837
100.000	775123.334	7486906.341
110.000	775113.347	7486906.844
120.000	775103.359	7486907.348
130.000	775093.372	7486907.851
140.000	775083.384	7486908.354
150.000	775073.396	7486908.857
160.000	775063.408	7486909.360
170.000	775053.420	7486909.863
180.000	775043.432	7486909.866
190.000	775033.444	7486909.869
200.000	775023.456	7486909.872
210.000	775013.468	7486909.875
220.000	775003.480	7486909.878
230.000	774993.492	7486909.881
240.000	774983.504	7486909.884
250.000	774973.516	7486909.887
260.000	774963.528	7486909.890
270.000	774953.540	7486909.893
280.000	774943.552	7486909.896
290.000	774933.564	7486909.899
300.000	774923.576	7486909.902
310.000	774913.588	7486909.905
320.000	774903.600	7486909.908
330.000	774893.612	7486909.911
340.000	774883.624	7486909.914
350.000	774873.636	7486909.917
360.000	774863.648	7486909.920
370.000	774853.660	7486909.923
380.000	774843.672	7486909.926
390.000	774833.684	7486909.929
400.000	774823.696	7486909.932
410.000	774813.708	7486909.935
420.000	774803.720	7486909.938
430.000	774793.732	7486909.941
440.000	774783.744	7486909.944
450.000	774773.756	7486909.947
460.000	774763.768	7486909.950
470.000	774753.780	7486909.953
480.000	774743.792	7486909.956
490.000	774733.804	7486909.959
500.000	774723.816	7486909.962
510.000	774713.828	7486909.965
520.000	774703.840	7486909.968
530.000	774693.852	7486909.971
540.000	774683.864	7486909.974
550.000	774673.876	7486909.977
560.000	774663.888	7486909.980
570.000	774653.900	7486909.983
580.000	774643.912	7486909.986
590.000	774633.924	7486909.989
600.000	774623.936	7486909.992
610.000	774613.948	7486909.995
620.000	774603.960	7486909.998
630.000	774593.972	7486909.999
640.000	774583.984	7486909.999
650.000	774573.996	7486909.999
660.000	774563.999	7486909.999
670.000	774553.999	7486909.999
680.000	774543.999	7486909.999
690.000	774533.999	7486909.999
700.000	774523.999	7486909.999
710.000	774513.999	7486909.999
720.000	774503.999	7486909.999
730.000	774493.999	7486909.999
740.000	774483.999	7486909.999



TYPE CROSS SECTION TURKEY NEST DAM

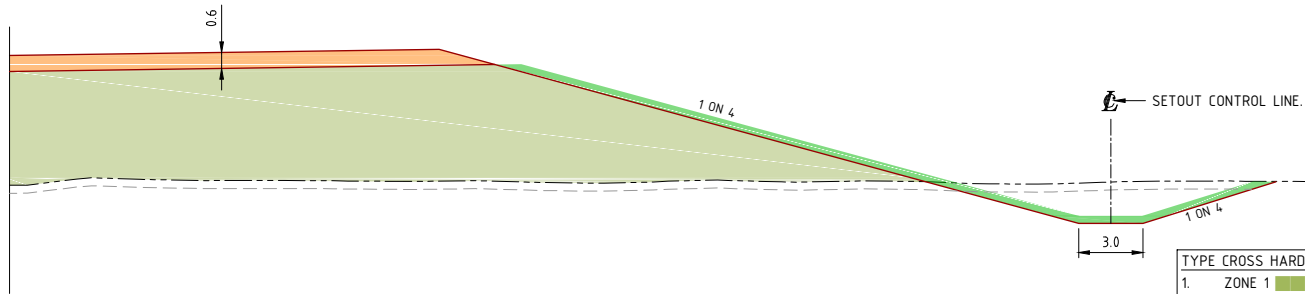
TYPE CROSS TURKEY NEST DAM

1. ZONE 1 GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4. OUTER FACE TO BE WHEEL ROLLED & FINAL TRIMMED; LIGHTLY SCARIFY THEN APPLY 100mm TOPSOIL.
 2. ZONE 2 GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
 3. ZONE 3 FOUNDATION AREA. REMOVE MIN 150mm-300mm EXIST TOPSOIL. COMPACT FOUNDATION. EXCAVATE CUT OFF WALL. GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; MIN 20% PASSING 75µm; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
 4. RE-VEGETATION OF CREST & BATTERS TO BE ADVISED BY PRINCIPAL.
- COMPACTION STANDARD 100% STANDARD (AS1289) AT OMC ±2%

AUDIT TESTING SCHEDULE TURKEY NEST DAM EMBANKMENT

TEST TYPE	FIELD DENSITY (AUSTRALIAN STANDARD)	FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED
SUBGRADE/ FOUNDATION PREPARATION	FIELD DENSITY (AUSTRALIAN STANDARD)	FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED
CUT OFF TRENCH	FIELD DENSITY (AUSTRALIAN STANDARD)	FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED
EMBANKMENT MATERIAL INCL. CUT OFF TRENCH	FIELD DENSITY (AUSTRALIAN STANDARD)	FOR EACH MATERIAL ZONE 2 & 3 FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED.
EMBANKMENT MATERIAL INCL. CUT OFF TRENCH	QUALITY	FOR EACH MATERIAL ZONE 2 & 3 FOUR (4) TEST ONE EACH SIDE, I.E GRADING, ATTERBERGS INCL. SHRINKAGE & EMMERSON CLASS DISPERSION.

ALL TEST LOCATIONS TO BE RECORDED WITH GPS CO-ORDINATES



TYPE CROSS SECTION CHPP/MIA HARDSTAND

TYPE CROSS HARDSTAND

1. ZONE 1 GENERAL FILL; MAX PARTICLE SIZE 300mm; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
2. ZONE 2 FRESH PERMIAN SANDSTONE SPOIL.
3. ZONE 3 OUTER FACE TO BE WHEEL ROLLED & FINAL TRIMMED. RE-SPREAD MIN 100mm TOPSOIL ON FINISHED SURFACE.
4. RE-VEGETATION OF BATTERS TO BE ADVISED BY PRINCIPAL.

COMPACTION 4-6 PASSES USING 15T VIBRATING SMOOTH DRUM ROLLER FOLLOWING TRACK ROLLING WITH DOZER.

AUDIT TESTING SCHEDULE HARDSTAND

TEST TYPE	PROOF ROLL	NO VISIBLE MOVEMENT UNDER LOAD FROM LOADED WATER CART OR EQUIVALENT
FINISHED SURFACE		

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COX ANDREWS ENGINEERS PTL
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email: adslu3d8@tpg.com.au

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AMENDMENTS		
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1	15/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
CHPP/MIA HARDSTAND FACILITY
TYPE CROSS SECTIONS

FILL NO G1706-02-MIA1.DWG

JOB NO G1706/02

SCALE NOT TO SCALE AT A3 SIZE

DRAWING NUMBER G1706-02-MIA-5 ISSUE 1 SHEET 6



CENTRAL QUEENSLAND COAL



DRAWING INDEX

SHEET	DWG NO.	REV	DESCRIPTION
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CIVIL WORKS

1	G1706-02-GA-1	2	SITE PLAN
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CHPP/MIA - DAM #1 ACCESS ROAD & OVERFLOW CHANNELS

2	G1706-02-DR-1	1	ALIGNMENT SETOUTS ROAD & OVERFLOW CHANNELS
3	G1706-02-DR-2	1	TYPE CROSS SECTION & DETAILS ROAD & OVERFLOW CHANNELS
4	G1706-02-DR-3	1	PLAN & LONGITUDINAL SECTION ROAD CH0 - CH500
5	G1706-02-DR-4	1	PLAN & LONGITUDINAL SECTION ROAD CH500 - CH1000
6	G1706-02-DR-5	1	PLAN & LONGITUDINAL SECTION ROAD CH1000 - CH1500
7	G1706-02-DR-6	1	PLAN & LONGITUDINAL SECTION ROAD CH1500 - CH2000
8	G1706-02-DR-7	1	PLAN & LONGITUDINAL SECTION ROAD CH2000 - CH2416.781
9	G1706-02-DR-8	1	ROAD CROSS SECTIONS CH20 - CH520
10	G1706-02-DR-9	1	ROAD CROSS SECTIONS CH540 - CH1020
11	G1706-02-DR-10	1	ROAD CROSS SECTIONS CH1040 - CH1540
12	G1706-02-DR-11	1	ROAD CROSS SECTIONS CH1560 - CH2080
13	G1706-02-DR-12	1	ROAD CROSS SECTIONS CH2100 - CH2400; CULVERT SECTION
14	G1706-02-DR-13	1	OVERFLOW CHANNEL #1 PLAN, LONGITUDINAL SECTION & CROSS SECTIONS
15	G1706-02-DR-14	1	OVERFLOW CHANNEL #2 PLAN & LOGITUDINAL SECTION CH0 - CH200
16	G1706-02-DR-15	1	OVERFLOW CHANNEL #2 PLAN & LOGITUDINAL SECTION CH200 - CH300
17	G1706-02-DR-16	1	OVERFLOW CHANNEL #2 CROSS SECTIONS
18	G1706-02-DR-17	1	OVERFLOW CHANNEL #3 PLAN, LONGITUDINAL SECTION & CROSS SECTIONS
19	G1706-02-DR-18	1	OVERFLOW CHANNEL #4 PLAN & LOGITUDINAL SECTION CH0 - CH250
20	G1706-02-DR-19	1	OVERFLOW CHANNEL #4 PLAN & LOGITUDINAL SECTION CH250 - CH500
21	G1706-02-DR-20	1	OVERFLOW CHANNEL #4 PLAN & LOGITUDINAL SECTION CH500 - CH750
22	G1706-02-DR-21	1	OVERFLOW CHANNEL #4 PLAN & LOGITUDINAL SECTION CH750 - CH970
23	G1706-02-DR-22	1	OVERFLOW CHANNEL #4 CROSS SECTIONS CH0 - CH620
24	G1706-02-DR-23	1	OVERFLOW CHANNEL #4 CROSS SECTIONS CH680 - CH920



IMPORTANT NOTICE

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES UNLESS DIRECTED OTHERWISE. SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM <http://www.cmdg.com.au/>.
2. THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
3. THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
4. AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
5. THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
6. SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS.

EXISTING LEVELS AND SERVICES

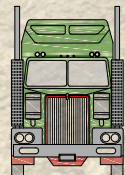
1. NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
2. THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
3. PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

ENVIRONMENTAL MANAGEMENT

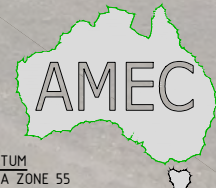
1. THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
2. THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
3. THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
4. ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
5. ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

1. UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES (CMDG) STANDARD DRAWINGS OR TRANSPORT MAIN ROADS (TMR) STANDARD DRAWINGS.



ACCESS ROAD CHPP/MIA TO DAM #1 INCLUDING OVERFLOW CHANNELS JOB NO. G1706/02



DATUM
MGA ZONE 55
AUSTRALIAN MINING ENGINEERING
CONSULTANTS

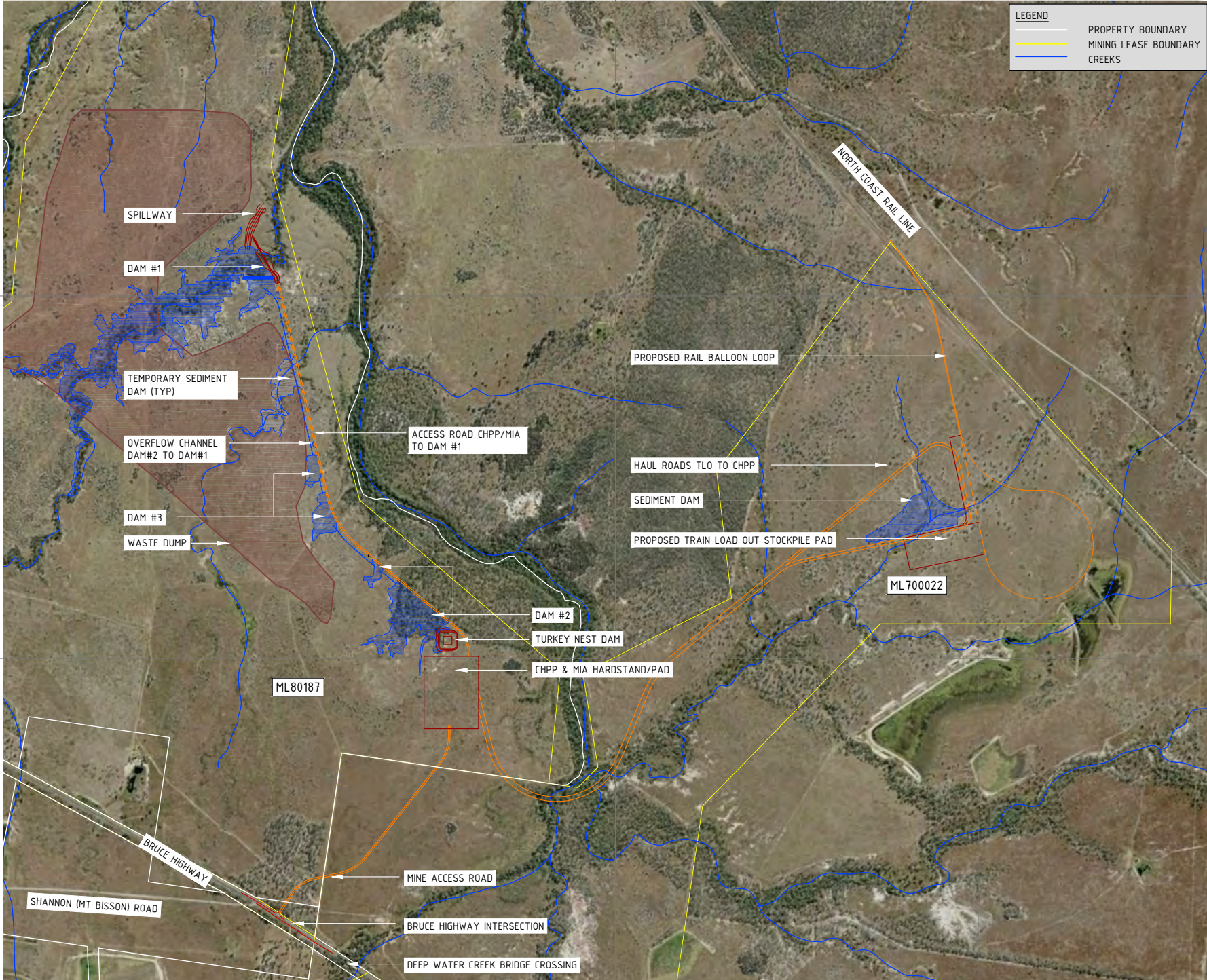
774150.000mE

776150.000mE

778150.000mE

7489310.000mN

7487310.000mN



LEGEND

- PROPERTY BOUNDARY
- MINING LEASE BOUNDARY
- CREEKS

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
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NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE	DATE	SUBJECT
1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



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 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 SITE PLAN

TITLE NO: G1706-02-GA1.DWG
 JOB NO: G1706/02
 SCALE: 0 120000 HORZ. 400 A3 SIZE

DRAWING NUMBER: G1706-02-GA-1
 ISSUE SHEET NO: 2 1

774150.000mE

776150.000mE

778150.000mE

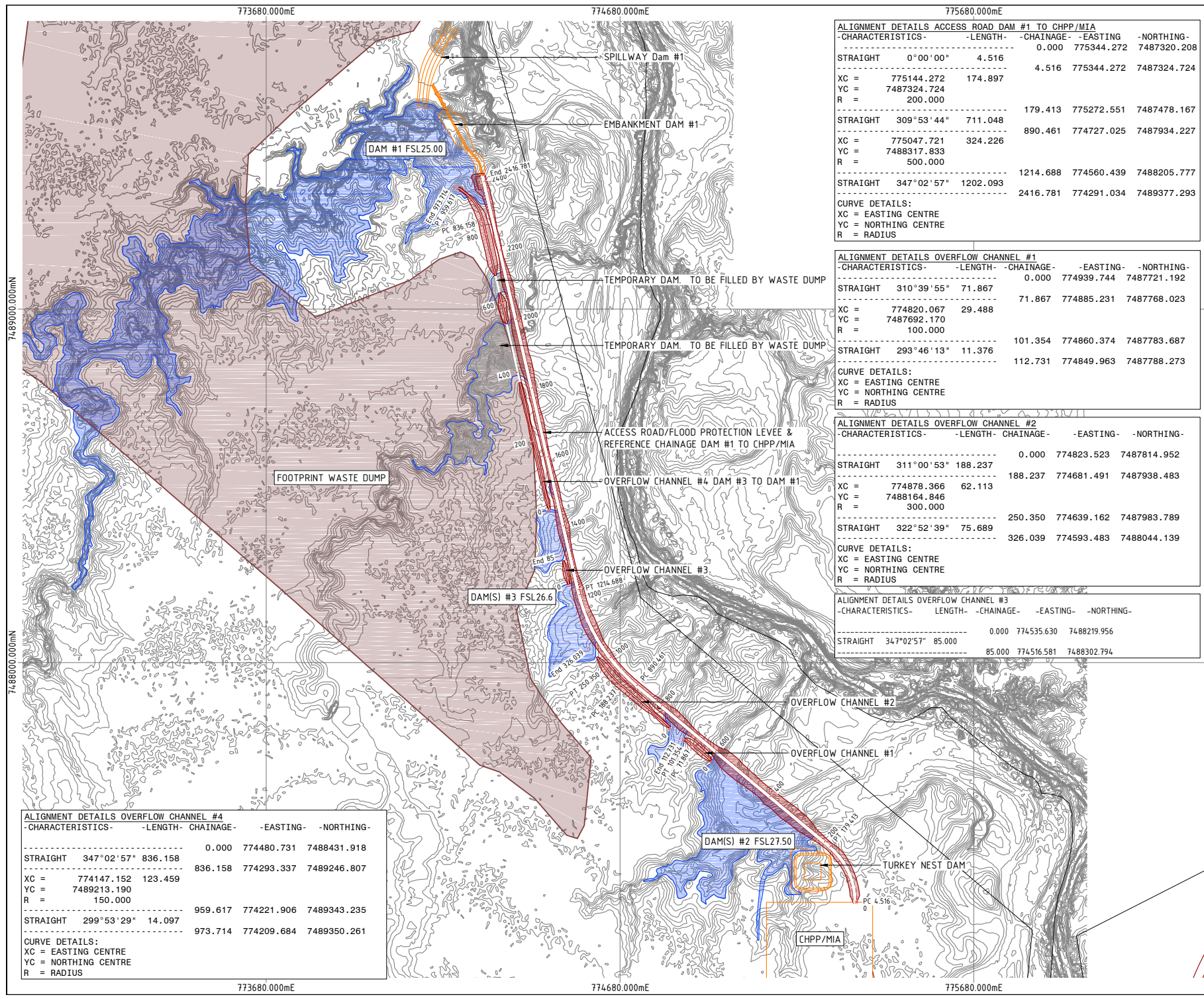
7489310.000mN

7487310.000mN

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-GA1 (Civil Works Site Plan).dwg_GA1_31/07/2018 11:44:52 AM

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ALIGNMENT DETAILS ACCESS ROAD DAM #1 TO CHPP/MIA

-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT 0°00'00"	4.516	0.000	775344.272	7487320.208

	4.516	775344.272	7487324.724	
XC =	775144.272	174.897		
YC =	7487324.724			
R =	200.000			

STRAIGHT 309°53'44"	711.048		179.413	775272.551

	890.461	774727.025	7487934.227	
XC =	775047.721	324.226		
YC =	7488317.833			
R =	500.000			

STRAIGHT 347°02'57"	1202.093		1214.688	774560.439

	2416.781	774291.034	7489377.293	

CURVE DETAILS:
 XC = EASTING CENTRE
 YC = NORTHING CENTRE
 R = RADIUS

ALIGNMENT DETAILS OVERFLOW CHANNEL #1

-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT 310°39'55"	71.867	0.000	774939.744	7487721.192

	71.867	774885.231	7487768.023	
XC =	774820.067	29.488		
YC =	7487692.170			
R =	100.000			

STRAIGHT 293°46'13"	11.376		101.354	774860.374

	112.731	774849.963	7487788.273	

CURVE DETAILS:
 XC = EASTING CENTRE
 YC = NORTHING CENTRE
 R = RADIUS

ALIGNMENT DETAILS OVERFLOW CHANNEL #2

-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT 311°00'53"	188.237	0.000	774823.523	7487814.952

	188.237	774681.491	7487938.483	
XC =	774878.366	62.113		
YC =	7488164.846			
R =	300.000			

STRAIGHT 322°52'39"	75.689		250.350	774639.162

	326.039	774593.483	7488044.139	

CURVE DETAILS:
 XC = EASTING CENTRE
 YC = NORTHING CENTRE
 R = RADIUS

ALIGNMENT DETAILS OVERFLOW CHANNEL #3

-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT 347°02'57"	85.000	0.000	774535.630	7488219.956

	85.000	774516.581	7488302.794	

ALIGNMENT DETAILS OVERFLOW CHANNEL #4

-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT 347°02'57"	836.158	0.000	774480.731	7488431.918

	836.158	774293.337	7489246.807	
XC =	774147.152	123.459		
YC =	7489213.190			
R =	150.000			

STRAIGHT 299°53'29"	14.097	959.617	774221.906	7489343.235

	973.714	774209.684	7489350.261	

CURVE DETAILS:
 XC = EASTING CENTRE
 YC = NORTHING CENTRE
 R = RADIUS

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE



COX ANDREWS ENGINEERS PTL
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AMENDMENTS

ISSUE DATE	SUBJECT	INITIALS
1 20/07/18	FIRST ISSUE	GR

XREF FILES

DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18



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 MACKAY

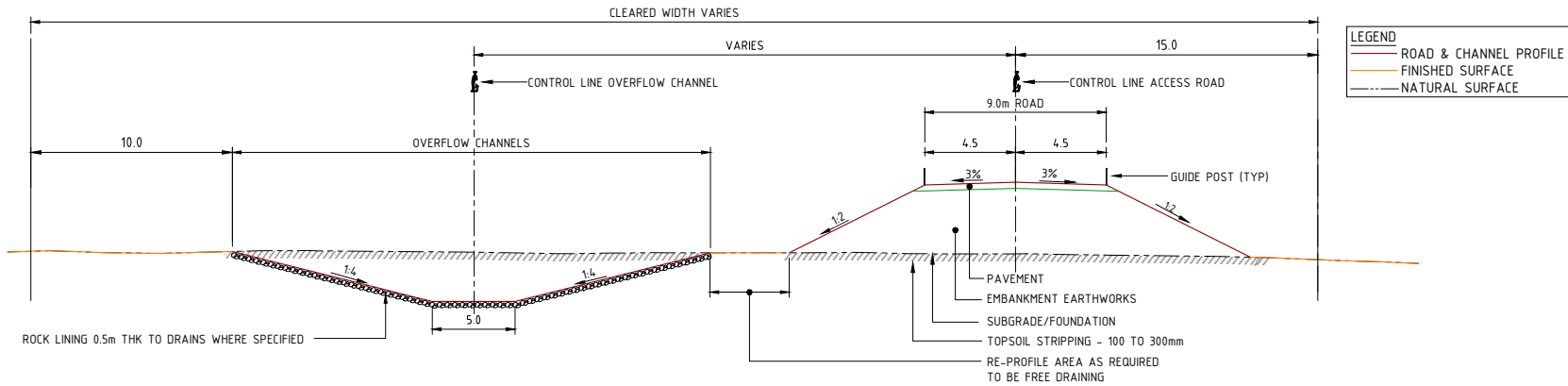
RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 ACCESS RD CHPP/MIA TO DAM #1
 ALIGNMENT SETOUTS
 ROAD & OVERFLOW CHANNELS

TITLE NO G1706-02-DR1.DWG
 JOB NO G1706/02
 SCALE 0 1:10000 HORZ. 200' A3 SIZE
 DRAWING NUMBER G1706-02-DR-1 ISSUE SHEET NO 1 2

PRINT IN COLOUR

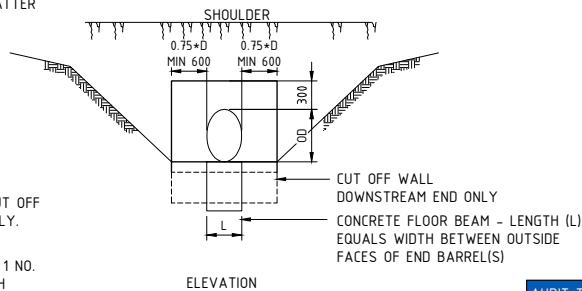
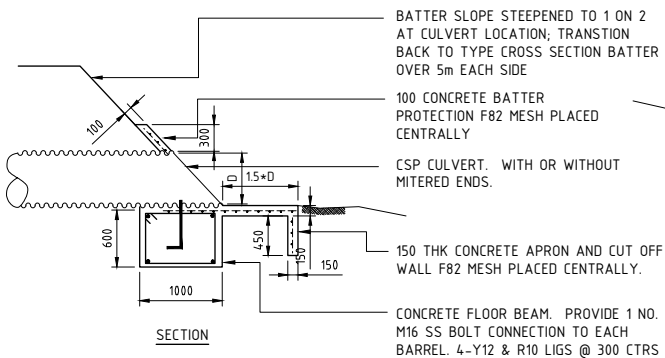
CLEARED WIDTH VARIES



TYPICAL ROAD AND OVERFLOW CHANNEL TYPE CROSS SECTIONS

NOTES

- CONNECTION TO EXISTING WORKS: LEVELS MAY BE VARIED WHERE NECESSARY TO ACHIEVE A SATISFACTORY SMOOTH CONNECTION TO EXISTING WORKS
- EMBANKMENT EARTHWORKS: WELL GRADED NON LOCALLY SOURCED MATERIAL; MAX PARTICLE SIZE 150mm; LL < 30%, PI < 15%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
- BATTERS & DRAINS: OUTER FACE OF BATTERS TO BE WHEEL ROLLED; BATTERS & DRAINS TO BE FINAL TRIMMED, & RE-SPREAD MIN 100mm TOPSOIL ON FINISHED SURFACE.
- RE-VEGETATION OF BATTERS & DRAINS: TO BE ADVISED BY PRINCIPAL.
- ROCK LINING: RIP RAP ROCK LINING TO DRAINS & OUTLET TO BE UNIFORMLY GRADED 0.5m THK DENSE, HARD & DURABLE MATERIAL; D₅₀ SIZE 150mm & MAX SIZE 300mm. FINISHED SURFACE TO MATCH DESIGN SURFACE LEVELS. VOIDS TO BE FILLED WITH TOPSOIL.
- PAVEMENT DETAILS: BASE COURSE 300mm COMPACTED DEPTH FRESH PERMIAN SANDSTONE SPOIL; SUB-BASE(1) COURSE IF ORDERED 150mm SELECTED MATERIAL MIN CBR 10%. MATERIALS TO BE SUPPLIED IN STOCKPILE BY THE MINE.
- CULVERTS: ALL CULVERTS UNLESS SHOWN OTHERWISE TO BE HELICAL LOCK SEAM CORRUGATED STEEL 2.0mm PLATE PIPES. ALL ENDS TO BE MITRED TO MATCH THE EMBANKMENT SLOPE. GROUND SLOPES ARE VERY FLAT & INVERT LEVELS MAY NEED TO BE ADJUSTED ON SITE TO SUIT.
- ROAD SIGNS: INSTALLATION AS PER STANDARD DRAWING CMDG-R-081. ALL SIGNS SIZE "B".
- GUIDEPOSTS: ON STRAIGHTS TO INSTALLED IN PAIRS AT 300m SPACINGS. ON CURVES PROVIDE POSTS AT 6m SPACING ON INSIDE OF CURVE AND 12m SPACING ON OUTSIDE OF CURVE. AT SINGLE BARREL CULVERT CROSSINGS PROVIDE 2 POSTS EACH END ON EITHER SIDE. FOR MULTIPLE BARREL CROSSINGS PROVIDE ADDITIONAL POSTS WITHIN THE CROSSING AT 1m SPACINGS. GUIDE POSTS TO BE SAFEROADS FLEXLOC @ OR APPROVED EQUIV. INSTALLATION AS PER TMR STANDARD DRAWING 1356.



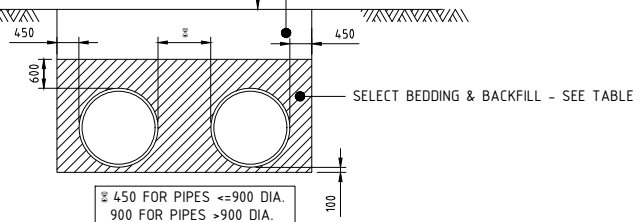
IN EMBANKMENTS, CONSTRUCT EMBANKMENT TO MINIMUM 600mm ABOVE TOP OF BARREL AND THEN EXCAVATE FOR CULVERT. WIDTH OF EXCAVATION NOT TO EXCEED DIMENSIONS SHOWN.

BACKFILL - INSITU MATERIAL. COMPACT TO MIN. 95% MAXIMUM DRY DENSITY STANDARD COMPACTION AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2.

HELICOR PIPE BEDDING & BACKFILL DETAILS

SIEVE SIZE	MASS OF SAMPLE PASSING %
75	100
53	80 - 100
9.5	60 - 85
2.36	25 - 75
0.075	0 - 10

SELECT BACKFILL MATERIAL SHALL COMPLY WITH THESE GRADING REQUIREMENTS & HAVE A MAXIMUM LINEAR SHRINKAGE OF 8% DETERMINED IN ACCORDANCE WITH AS1289.E.4.1. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY FOR STANDARD COMPACTIVE EFFORT AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2. HELICOR PIPE COMPONENTS - AS1761-1985. PIPE DESIGN AND CONSTRUCTION - AS1762-1984. REFER TO MANUFACTURER SPECS FOR FULL DETAILS. WITH AS1289.E.4.1. ALL BACKFILL MATERIAL SHALL



DETAIL FOR CSP CULVERT END TREATMENT DIMENSIONS MILLIMETRES

AUDIT TESTING SCHEDULE/COMPLIANCE STANDARDS

SUBGRADE CBR'S	CBR TO MAIN ROADS (TMR) TEST Q113A (4 DAY SOAKED SPECIMENS, 4 POINT)	ONE TEST PER MATERIAL CHANGE. PLAN SHOWING EXTENT OF EACH TYPE OF MATERIAL TESTED.
PREPARATION OF NATURAL GROUND UNDER EMBANKMENTS	TOP 150mm FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
EMBANKMENT EARTHWORKS	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
SUBGRADE PREPARATION	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
PAVEMENT LAYERS	FIELD DENSITY (AUSTRALIAN STANDARD)	NOT APPLICABLE
PAVEMENT MATERIAL	QUALITY	EX STOCKPILE PROVIDED BY MINE. NO TESTING REQUIRED BY CONTRACTOR
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
CONCRETE FOR SLABS, HEADWALLS	COMPRESSION TEST (AUSTRALIAN STANDARD)	ONE (1) SET OF THREE CYLINDERS PER CULVERT INSTALLATION (1 X 7 DAYS, 2 X 28 DAYS).

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



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AMENDMENTS

ISSUE	DATE	SUBJECT	APPROVED
1	20/07/18	FIRST ISSUE	OK

XREF FILES

DRAWING NO.	TITLE

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321 APPROVED FOR SIGN DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

ACCESS RD CHPP/MIA TO DAM #1

TYPE CROSS SECTION & DETAILS

ROAD & OVERFLOW CHANNELS

TITLE NO G1706-02-DR2.DWG

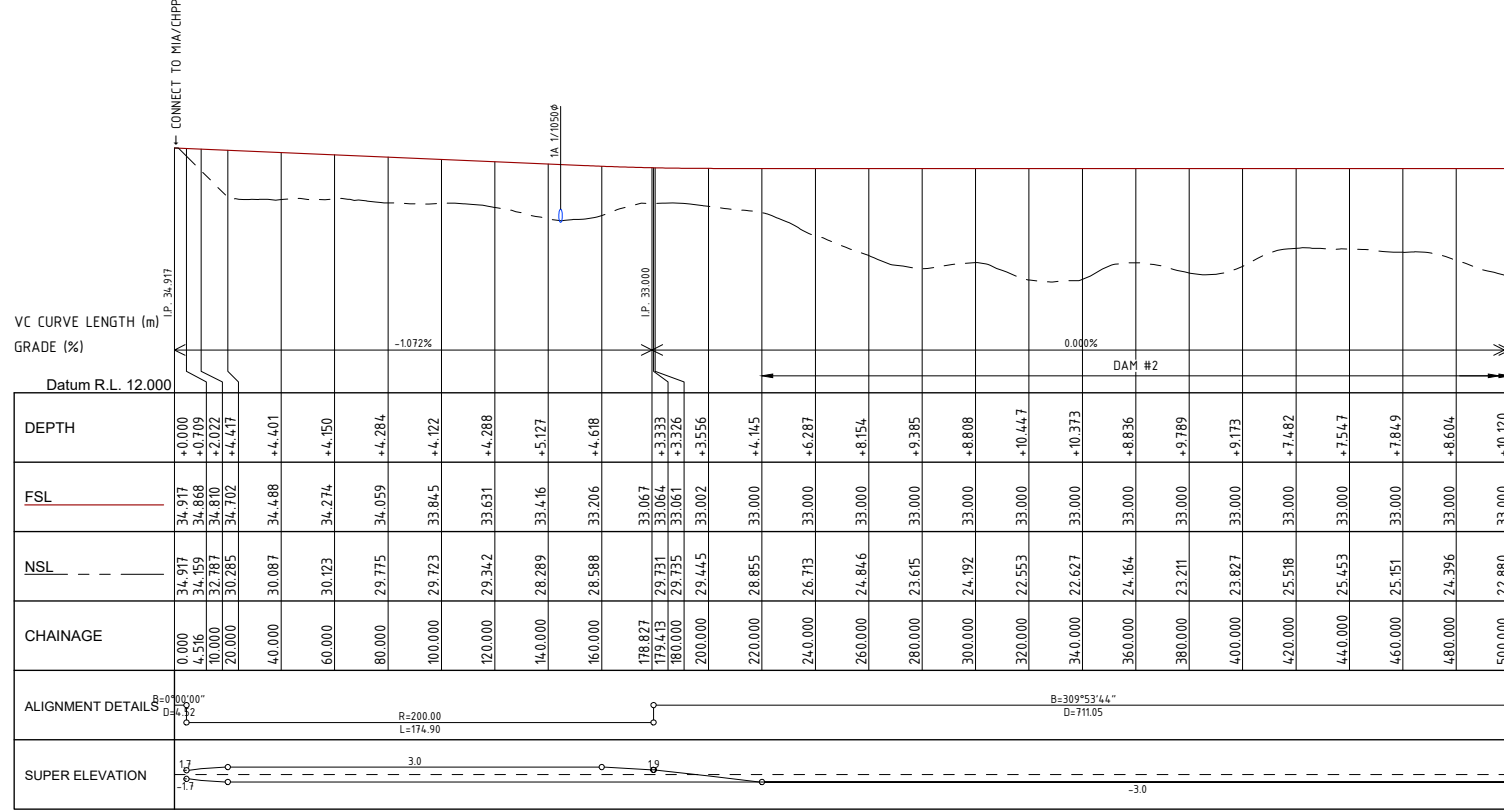
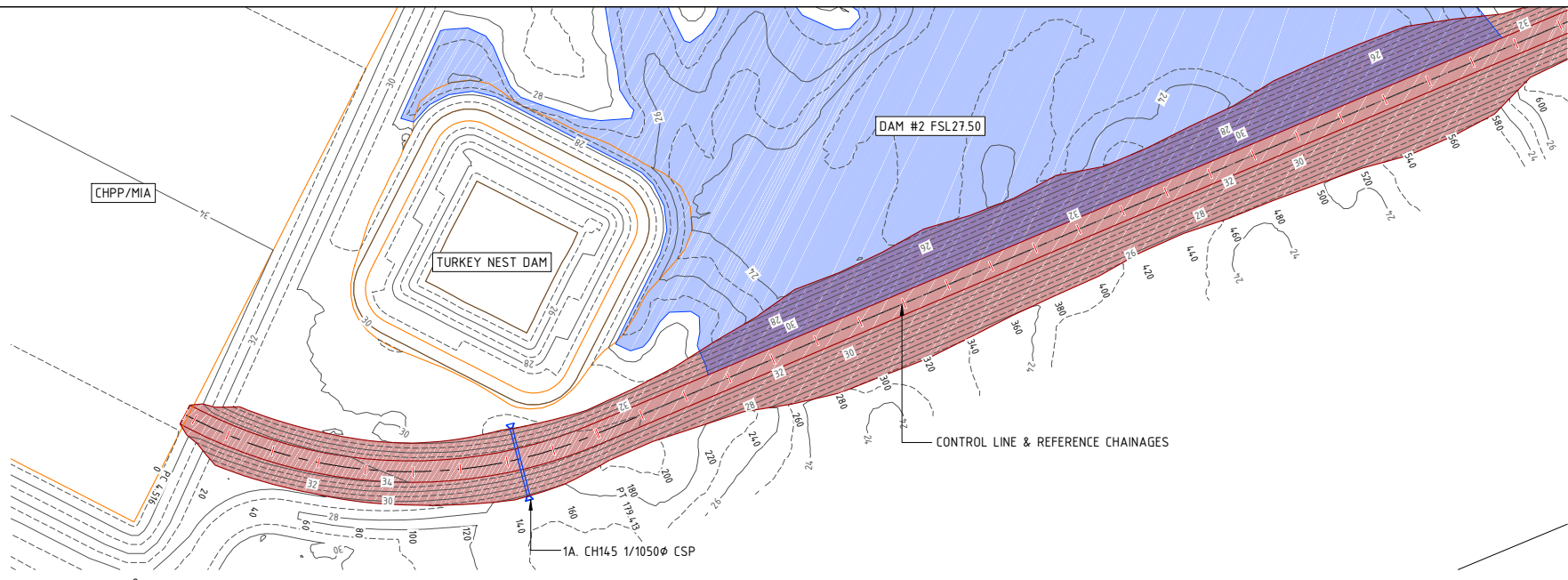
JOB NO G1706/02

SCALE NOT TO SCALE AT A3 SIZE

DRAWING NUMBER G1706-02-DR-2 ISSUE SHEET NO 1 3

PRINT IN COLOUR

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SETOUT ROAD CENTRE LINE		
CHAINAGE	EASTING	NORTHING
0.000	775344.272	7487320.208
4.516	775344.272	7487324.724
10.000	775344.197	7487330.207
20.000	775343.673	7487340.192
40.000	775341.133	7487360.022
60.000	775336.626	7487379.499
80.000	775330.196	7487398.428
100.000	775321.909	7487416.622
120.000	775311.847	7487433.896
140.000	775300.111	7487450.081
160.000	775286.818	7487465.012
179.413	775272.551	7487478.167
180.000	775272.101	7487478.543
200.000	775256.756	7487491.371
220.000	775241.412	7487504.199
240.000	775226.068	7487517.026
260.000	775210.724	7487529.854
280.000	775195.379	7487542.682
300.000	775180.035	7487555.510
320.000	775164.691	7487568.338
340.000	775149.346	7487581.165
360.000	775134.002	7487593.993
380.000	775118.658	7487606.821
400.000	775103.314	7487619.649
420.000	775087.969	7487632.477
440.000	775072.625	7487645.305
460.000	775057.281	7487658.132
480.000	775041.937	7487670.960
500.000	775026.592	7487683.788

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
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NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	APPROVED BY
20/07/18	FIRST ISSUE	GR

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN	ASC	DATE 05/18
DESIGN	ASC	DATE 05/18



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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

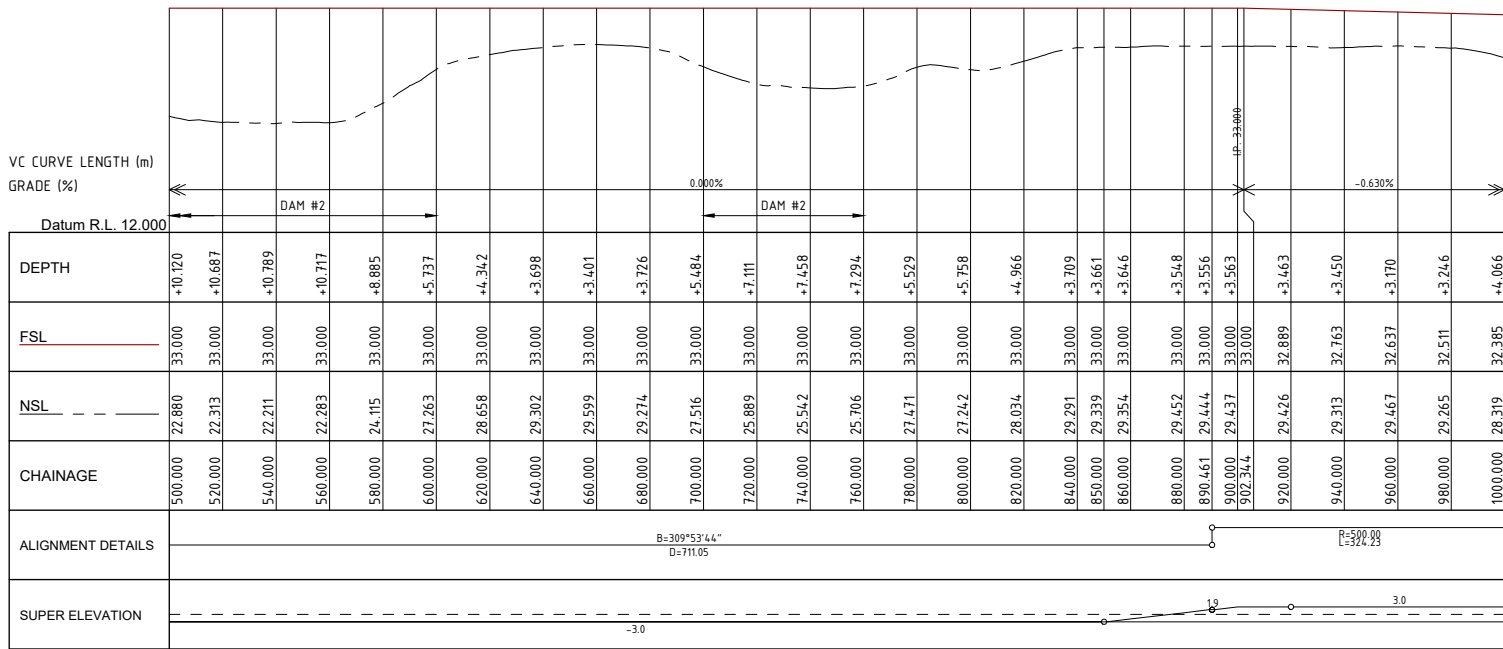
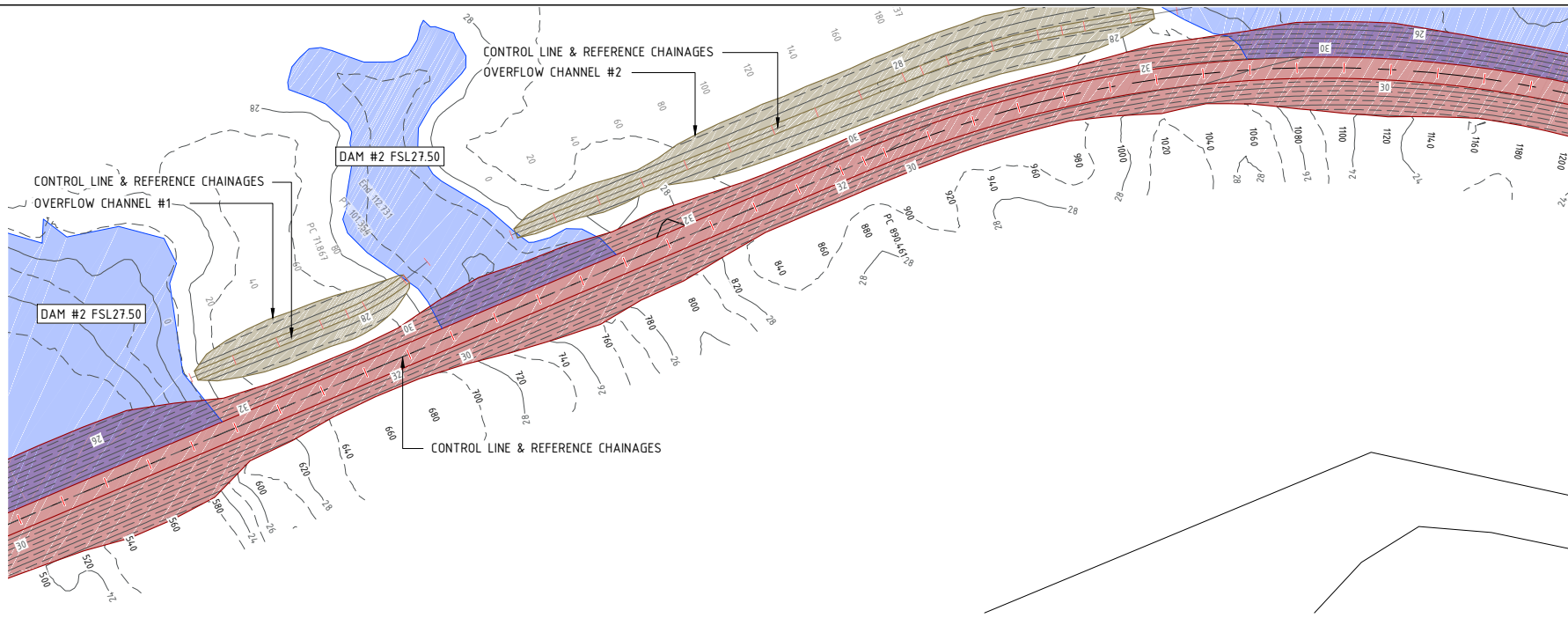
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
ACCESS RD CHPP/MIA TO DAM #1
PLAN & LONGITUDINAL SECTION
ROAD CHO - CH500

FILE NO	G1706-02-DR3.DWG
JOB NO	G1706/02
SCALE	0 12000 HORZ 40 AT 1250 VERT 5 A3 SIZE

DRAWING NUMBER **G1706-02-DR-3** ISSUE SHEET NO **1 4**

PRINT IN COLOUR

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CHAINAGE	EASTING	NORTHING
500.000	775026.592	7487683.788
520.000	775011.248	7487696.616
540.000	774995.904	7487709.444
560.000	774980.559	7487722.272
580.000	774965.215	7487735.099
600.000	774949.871	7487747.927
620.000	774934.527	7487760.755
640.000	774919.182	7487773.583
660.000	774903.838	7487786.411
680.000	774888.494	7487799.239
700.000	774873.149	7487812.066
720.000	774857.805	7487824.894
740.000	774842.461	7487837.722
760.000	774827.117	7487850.550
780.000	774811.772	7487863.378
800.000	774796.428	7487876.206
820.000	774781.084	7487889.033
840.000	774765.740	7487901.861
850.000	774758.067	7487908.275
860.000	774750.395	7487914.689
880.000	774735.051	7487927.517
890.461	774727.025	7487934.227
900.000	774719.766	7487940.414
920.000	774704.935	7487953.831
940.000	774690.653	7487967.830
960.000	774676.942	7487982.389
980.000	774663.825	7487997.484
1000.000	774651.321	7488013.092

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 05/18
DESIGN: ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
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MACKAY

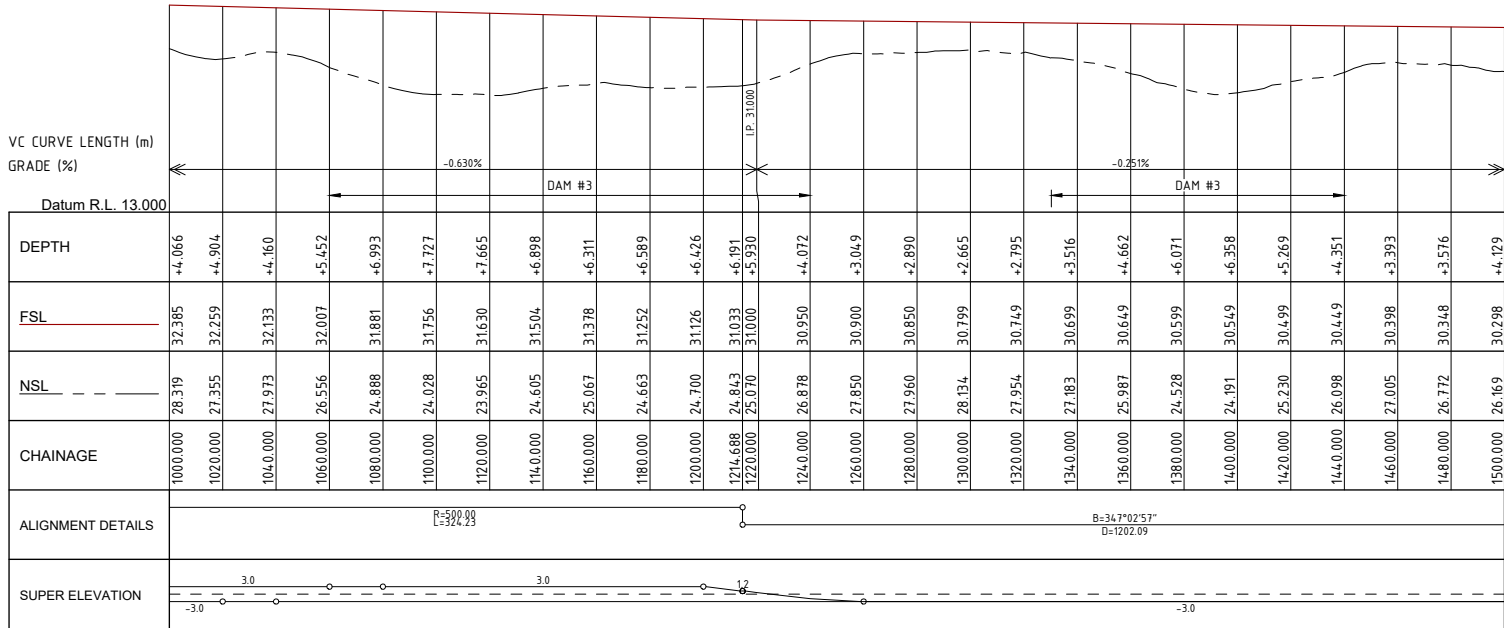
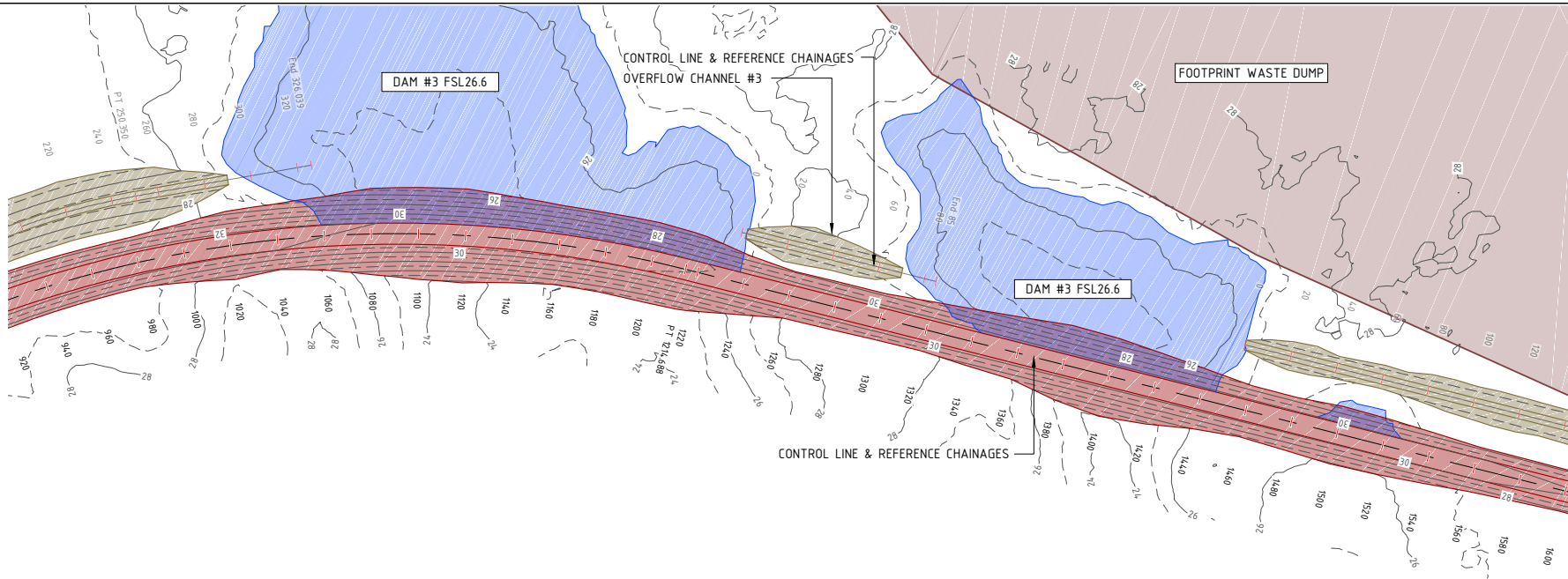
RPEQ 4321
APPROVED FOR ISSUE DATE 23/07/18

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
ACCESS RD CHPP/MIA TO DAM #1
PLAN & LONGITUDINAL SECTION
ROAD CH500 - CH1000

TITLE NO: G1706-02-DR3.DWG
JOB NO: G1706/02
SCALE: 0 12000 HORZ 40 AT A3 SIZE
0 1250 VERT 5
DRAWING NUMBER: G1706-02-DR-4
ISSUE SHEET NO: 15

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Scale Horizontal 1:2000 Vertical 1:500

CHAINAGE	EASTING	NORTHING
1000.000	774651.321	7488013.092
1020.000	774639.452	7488029.188
1040.000	774628.236	7488045.745
1060.000	774617.691	7488062.737
1080.000	774607.833	7488080.138
1100.000	774598.680	7488097.919
1120.000	774590.245	7488116.052
1140.000	774582.542	7488134.507
1160.000	774575.583	7488153.256
1180.000	774569.379	7488172.268
1200.000	774563.941	7488191.513
1214.688	774560.439	7488205.777
1220.000	774559.249	7488210.954
1240.000	774554.766	7488230.445
1260.000	774550.284	7488249.937
1280.000	774545.802	7488269.428
1300.000	774541.320	7488288.919
1320.000	774536.837	7488308.411
1340.000	774532.355	7488327.902
1360.000	774527.873	7488347.393
1380.000	774523.391	7488366.884
1400.000	774518.908	7488386.376
1420.000	774514.426	7488405.867
1440.000	774509.944	7488425.358
1460.000	774505.462	7488444.849
1480.000	774500.979	7488464.341
1500.000	774496.497	7488483.832

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORITY
20/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN	ASC	DATE	05/18
DESIGN	ASC	DATE	05/18



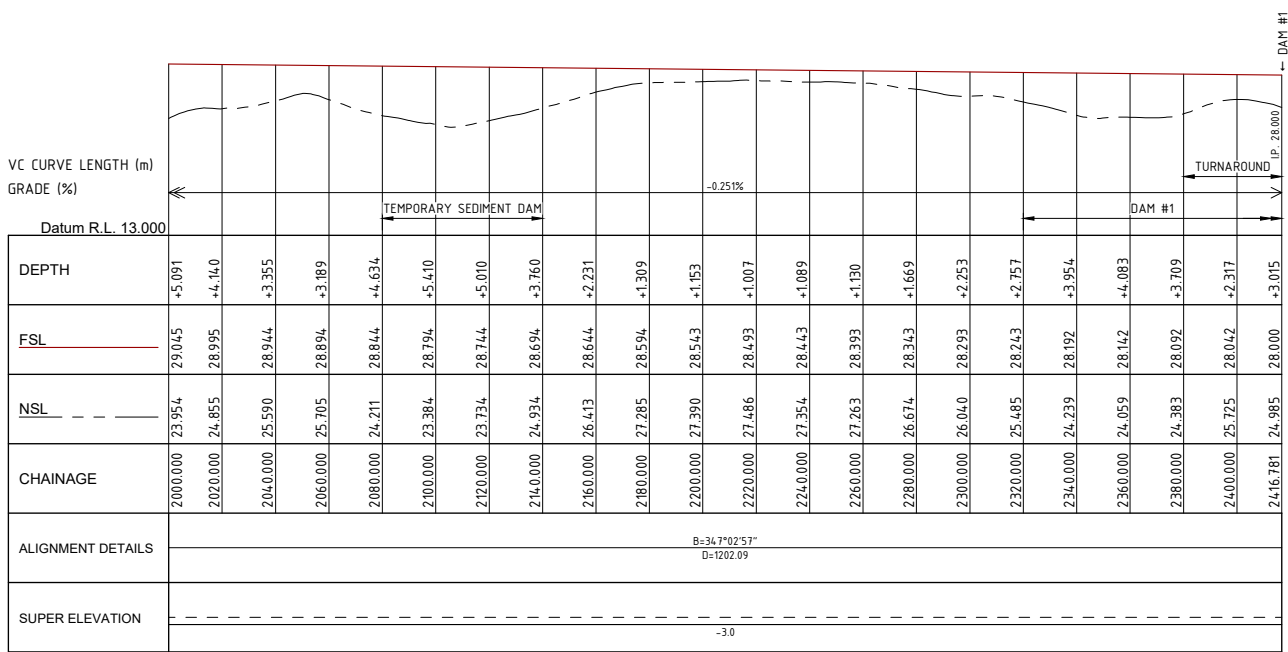
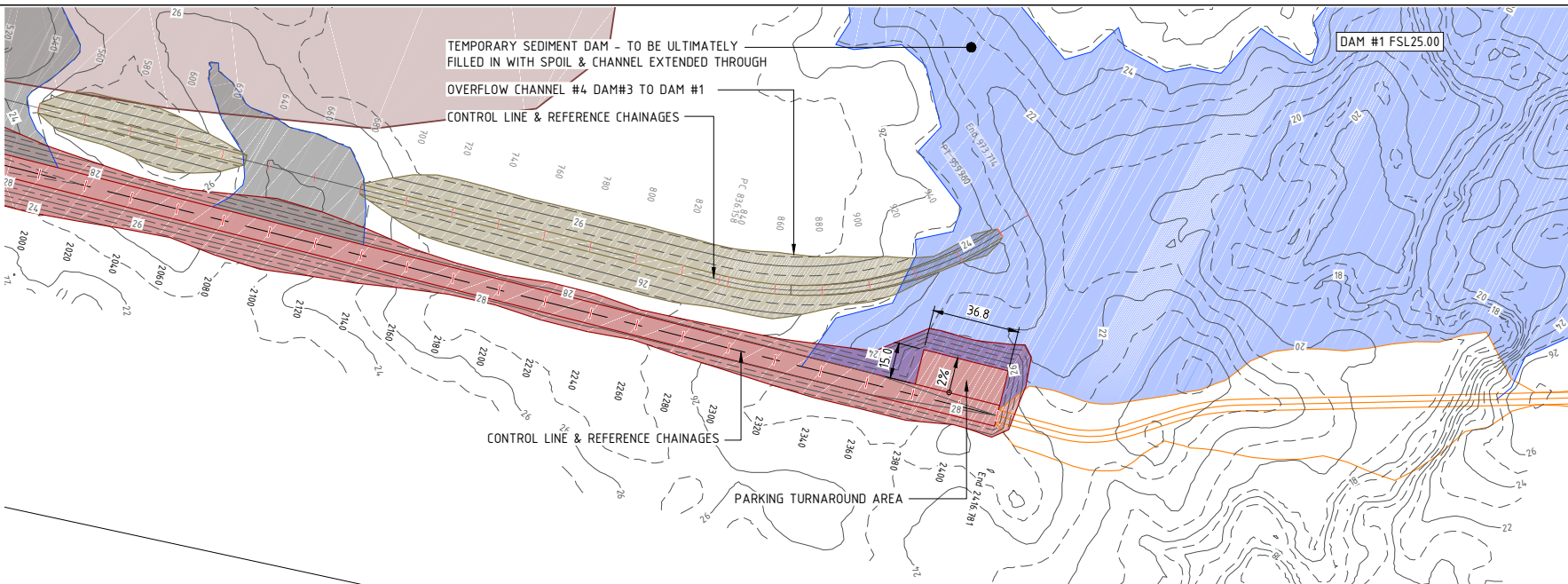
AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/18

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
ACCESS RD CHPP/MIA TO DAM #1
PLAN & LONGITUDINAL SECTION
ROAD CH1000 - CH1500

FILE NO	G1706-02-DR3.DWG
JOB NO	G1706/02
SCALE	0 12000 HORZ 40 AT A3 SIZE 0 1250 VERT 5
DRAWING NUMBER	G1706-02-DR-5
ISSUE SHEET NO	16

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CHAINAGE	EASTING	NORTHING
2000.000	774384.440	7488971.113
2020.000	774379.958	7488990.605
2040.000	774375.476	7489010.096
2060.000	774370.994	7489029.587
2080.000	774366.511	7489049.079
2100.000	774362.029	7489068.570
2120.000	774357.547	7489088.061
2140.000	774353.065	7489107.552
2160.000	774348.582	7489127.044
2180.000	774344.100	7489146.535
2200.000	774339.618	7489166.026
2220.000	774335.136	7489185.517
2240.000	774330.653	7489205.009
2260.000	774326.171	7489224.500
2280.000	774321.689	7489243.991
2300.000	774317.207	7489263.482
2320.000	774312.724	7489282.974
2340.000	774308.242	7489302.465
2360.000	774303.760	7489321.956
2380.000	774299.278	7489341.447
2400.000	774294.795	7489360.939
2416.781	774291.034	7489377.233

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE

COX ANDREWS ENGINEERS PTL
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email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18

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MOB: 0417187149
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CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
ACCESS RD CHPP/MIA TO DAM #1
PLAN & LONGITUDINAL SECTION
ROAD CH2000 - CH24.16.781

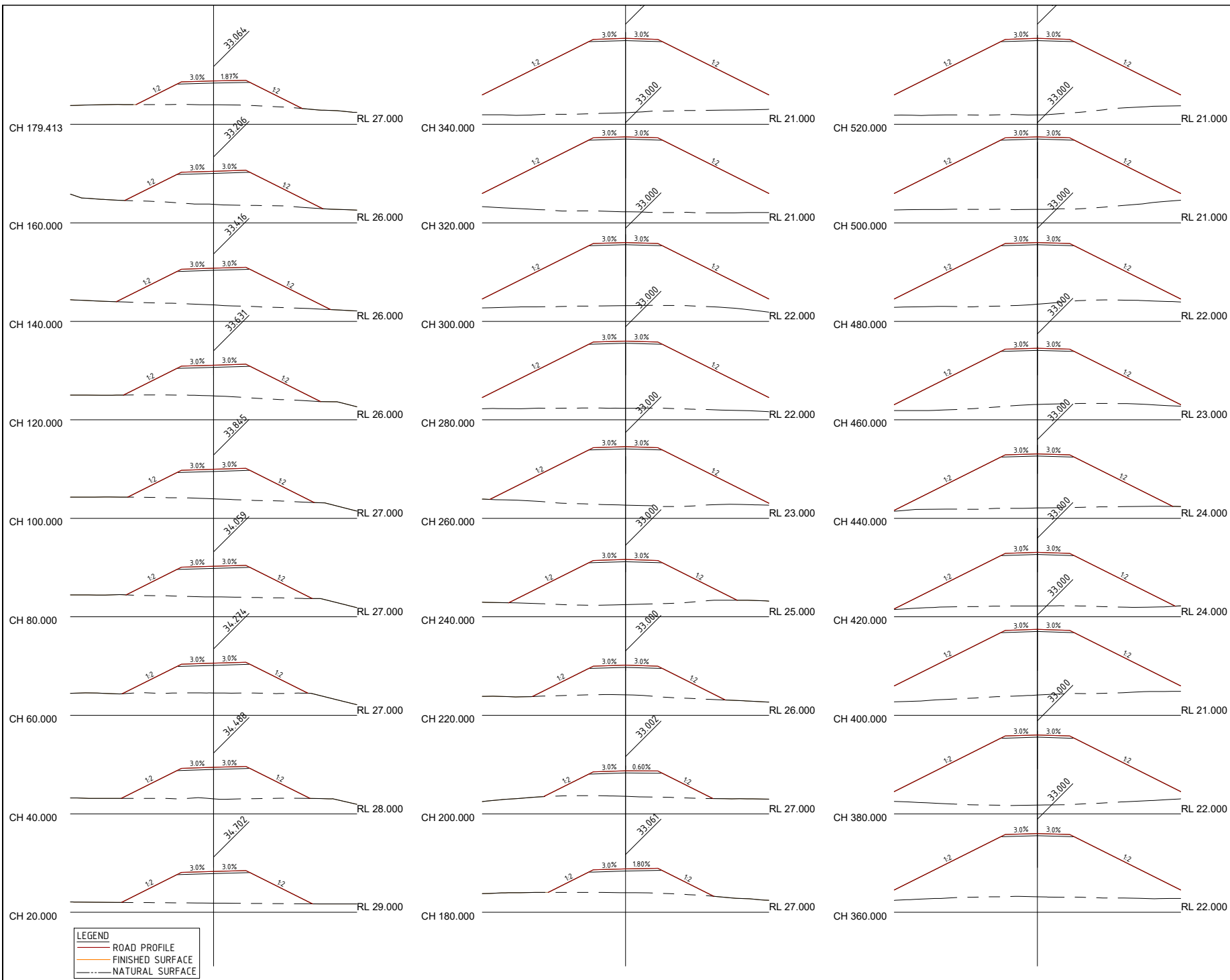
TITLE NO: G1706-02-DR3.DWG
JOB NO: G1706/02

SCALE: 0 12000 HORZ 40 AT A3 SIZE
0 1250 VERT 5

DRAWING NUMBER: G1706-02-DR-7
ISSUE: 1
SHEET NO: 8

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LEGEND
 — ROAD PROFILE
 — FINISHED SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

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CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 ACCESS RD CHPP/MIA TO DAM #1
 ROAD CROSS SECTIONS
 CH20 - CH520

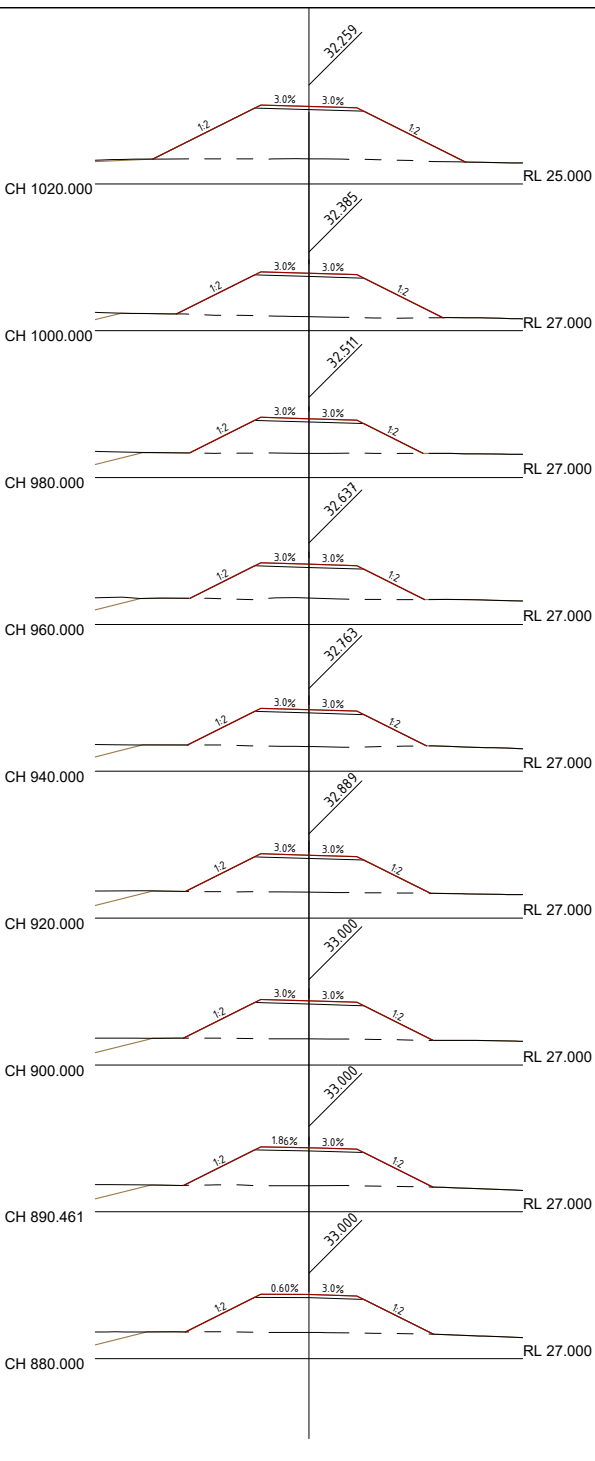
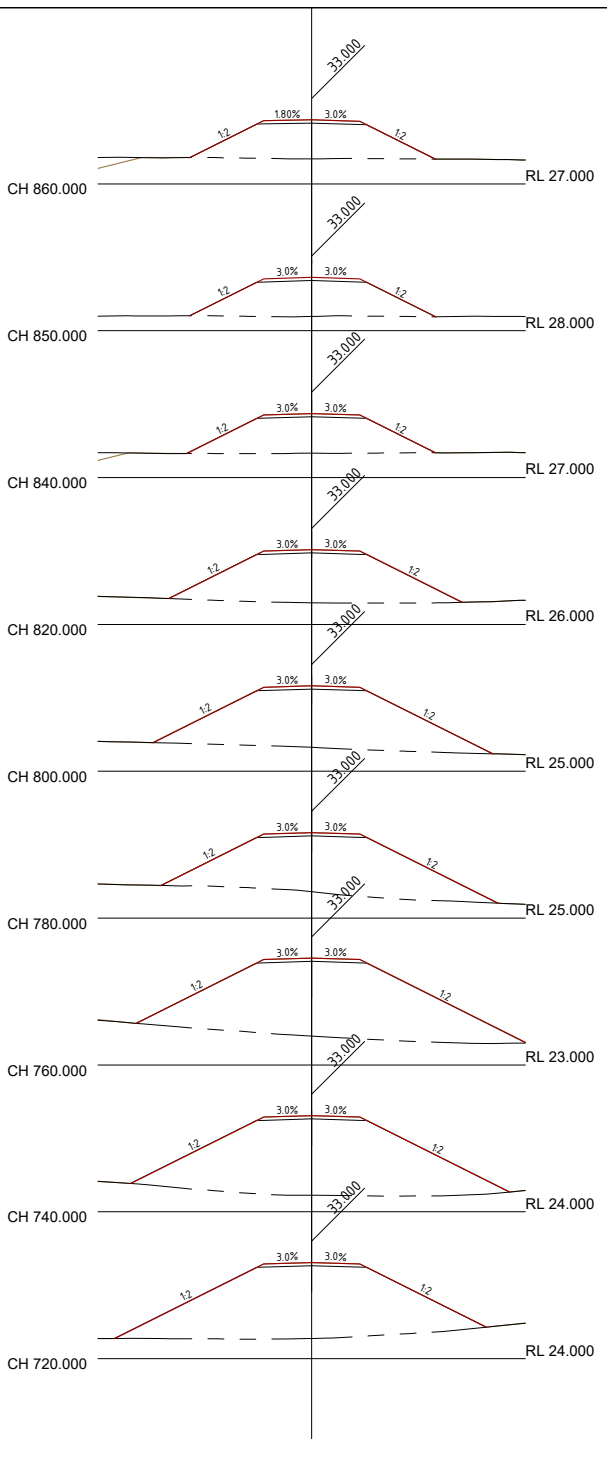
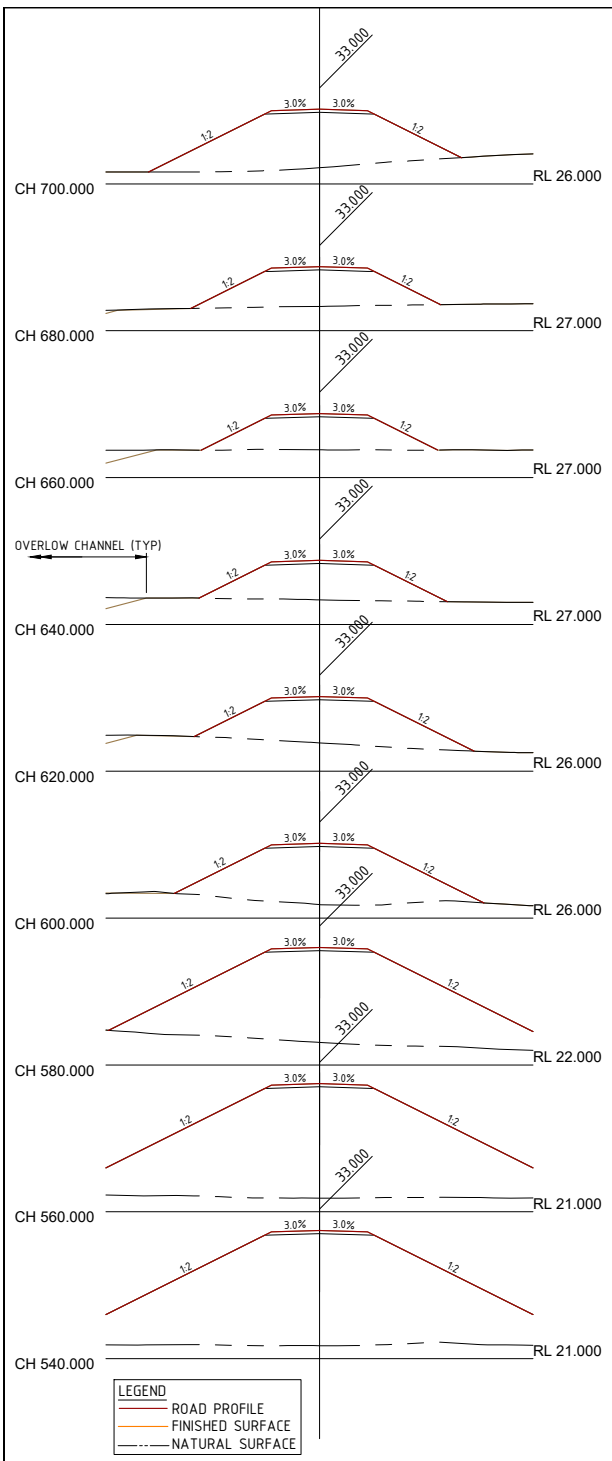
TITLE NO: G1706-02-DR3.DWG
 JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-8
 ISSUE: 1
 SHEET NO: 9

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LEGEND
 — ROAD PROFILE
 — FINISHED SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
 DESIGN: ASC DATE: 05/18



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 EMAIL: amec1@bigpond.net.au
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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/18

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 ACCESS RD CHPP/MIA TO DAM #1
 ROAD CROSS SECTIONS
 CH540 - CH1020

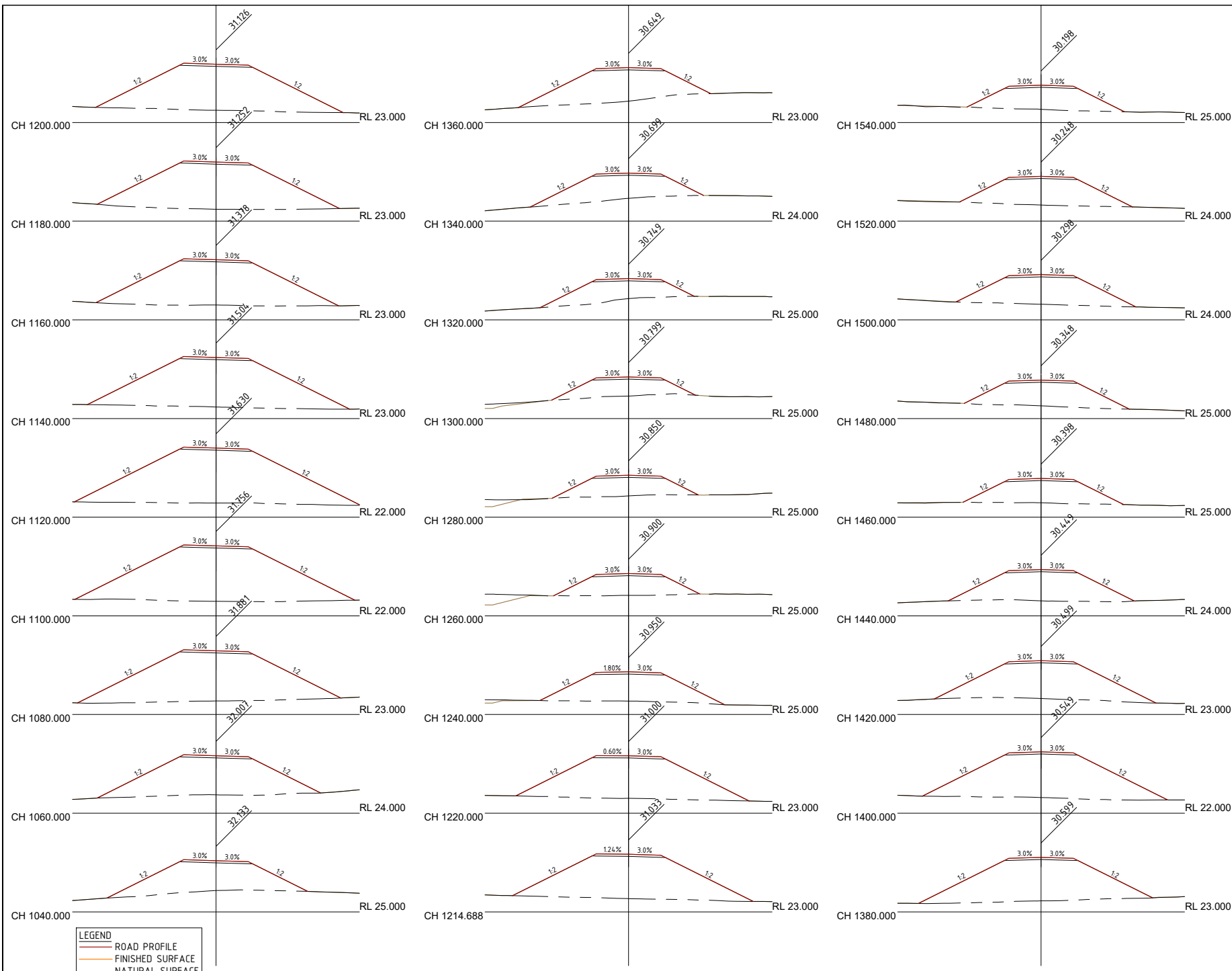
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 JOB NO: G1706/02

SCALE: 0 1500 HORZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-9
 ISSUE: 1
 SHEET NO: 10

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LEGEND
— ROAD PROFILE
— FINISHED SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

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 DIMENSIONS METERS UNO



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
 DESIGN: ASC DATE: 05/18



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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 ACCESS RD CHPP/MIA TO DAM #1
 ROAD CROSS SECTIONS
 CH104.0 - CH154.0

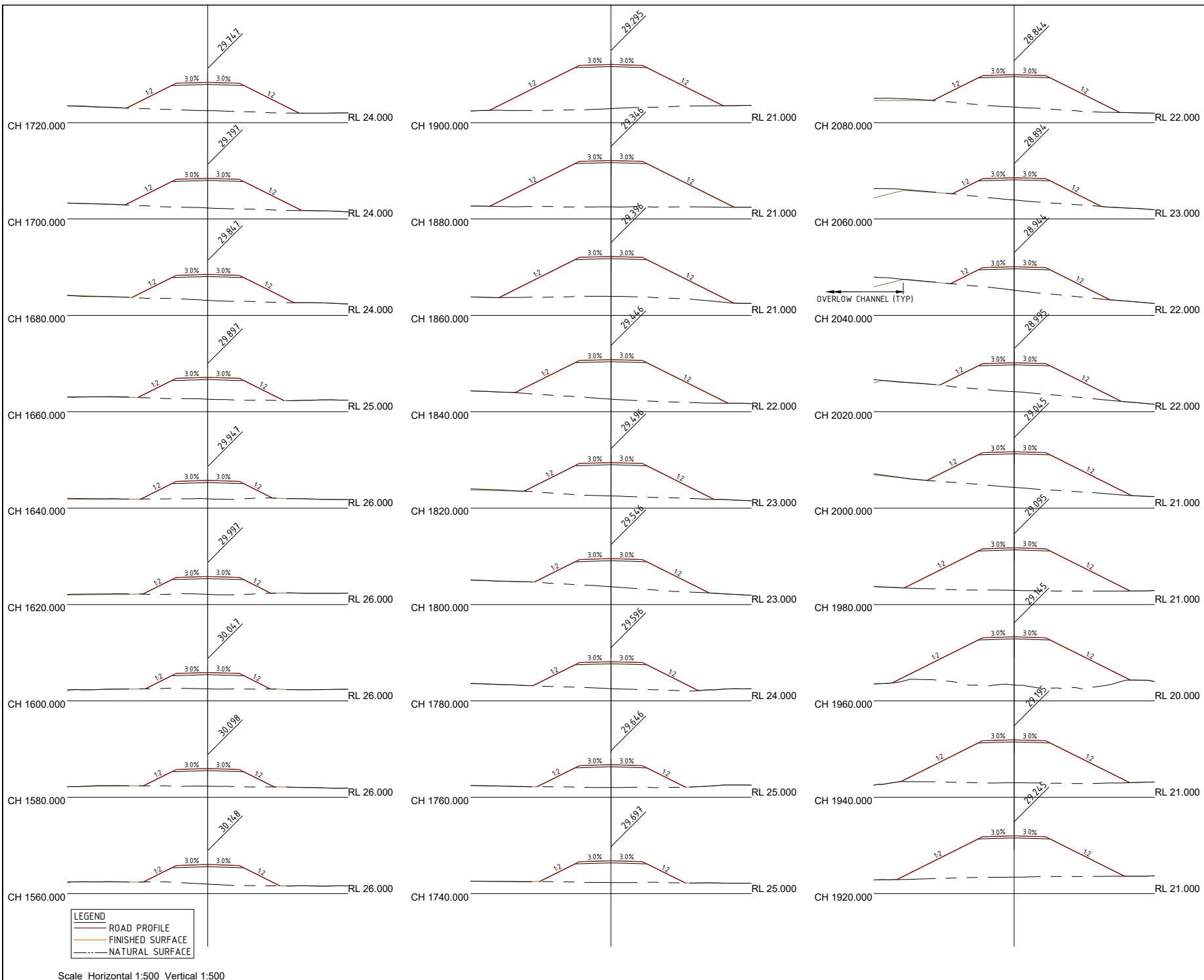
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 JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-10
 ISSUE: 1
 SHEET NO: 11

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Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

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DRAWING NO.	TITLE

DRAWN: ASC DATE 05/18
DESIGN: ASC DATE 05/18



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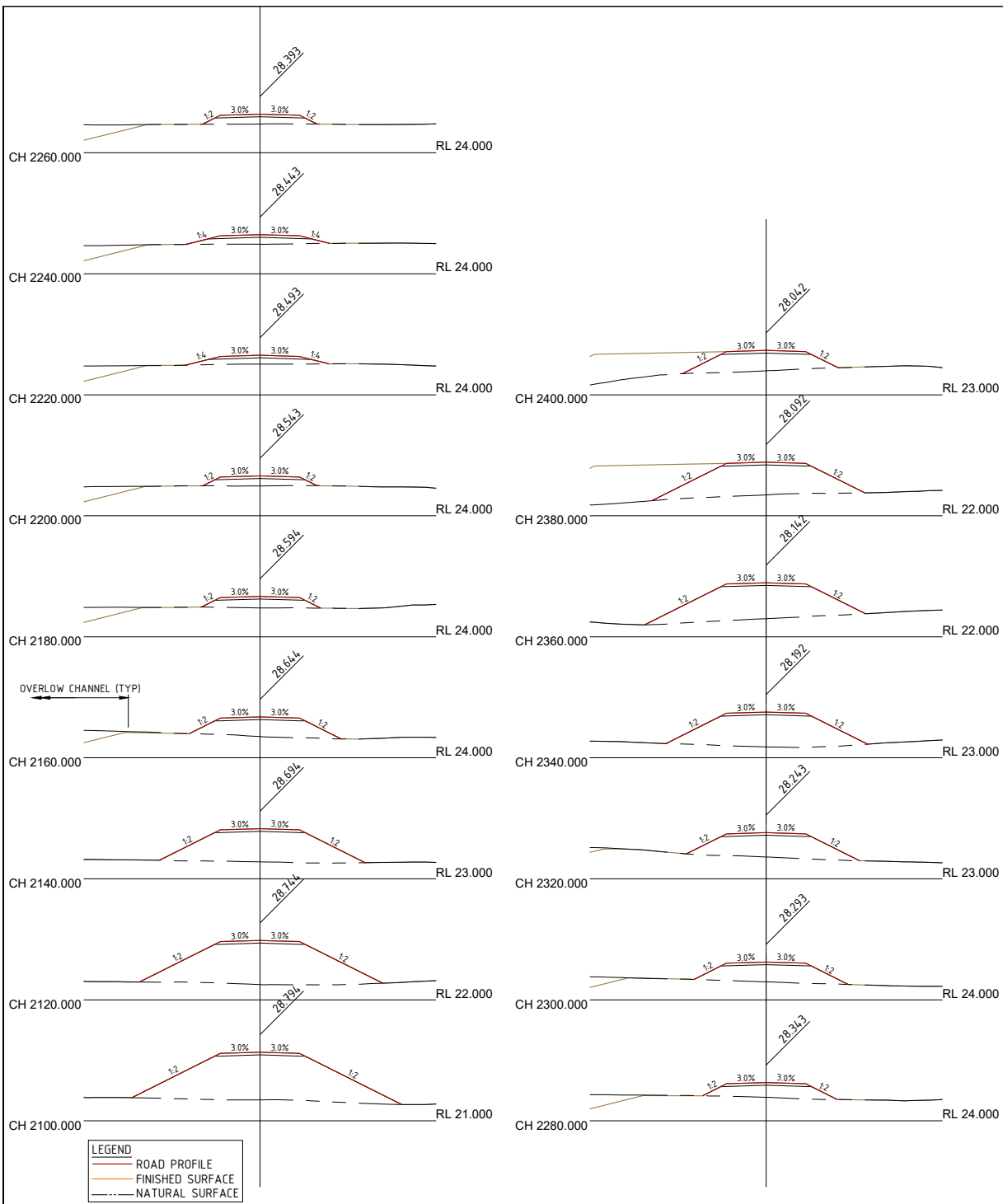
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
ACCESS RD CHPP/MIA TO DAM #1
ROAD CROSS SECTIONS
CH1560 - CH2080

TITLE NO: G1706-02-DR3.DWG
JOB NO: G1706/02
SCALE: 0 1500 HORIZ 10 AT A3 SIZE
0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-11
ISSUE: 1
SHEET: 12

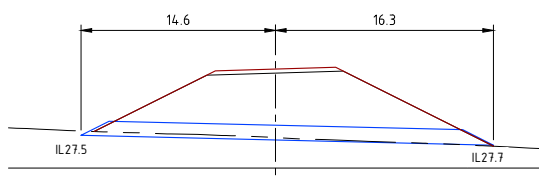
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LEGEND
 — ROAD PROFILE
 — FINISHED SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



1A. CH145 1/1050Ø CSP CULVERT 29.6m; REFER PLAN DR2 FOR INSTALLATION DETAILS

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 05/18

DESIGN: ASC DATE 05/18



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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 ACCESS RD CHPP/MIA TO DAM #1
 ROAD CROSS SECTIONS CH2100 - CH2400; CULVERT SECTION

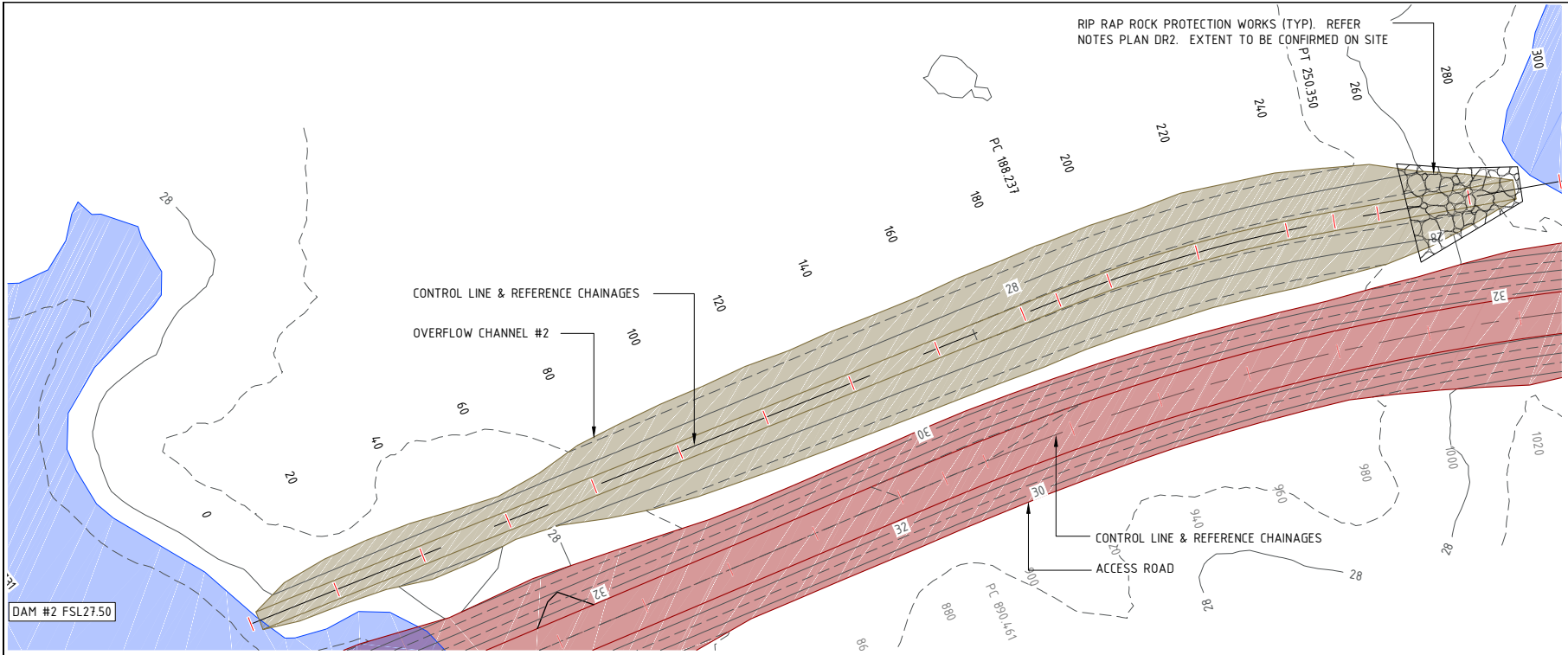
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 JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-12 1 13

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DAM #2 FSL 27.50

DEPTH	FSL	NSL	CHAINAGE	ALIGNMENT DETAILS
			0.000	Datum R.L. 22.000 B=311016.7 D=188.24 R=300.00 L=62.11
			2.000	
			10.000	
			20.000	
			30.000	
			40.000	
			50.000	
			60.000	
			70.000	
			80.000	
			90.000	
			100.000	
			110.000	
			120.000	
			130.000	
			140.000	
			150.000	
			160.000	
			170.000	
			180.000	
			188.237	
			190.000	
			200.000	

CHAINAGE	EASTING	NORTHING
2.000	774822.014	7487816.265
10.000	774815.978	7487821.515
20.000	774808.432	7487828.077
30.000	774800.887	7487834.640
40.000	774793.342	7487841.202
50.000	774785.796	7487847.765
60.000	774778.251	7487854.327
70.000	774770.705	7487860.890
80.000	774763.160	7487867.452
90.000	774755.615	7487874.015
100.000	774748.069	7487880.577
110.000	774740.524	7487887.140
120.000	774732.978	7487893.702
130.000	774725.433	7487900.265
140.000	774717.887	7487906.828
150.000	774710.342	7487913.390
160.000	774702.797	7487919.953
170.000	774695.251	7487926.515
180.000	774687.706	7487933.078
188.237	774681.491	7487938.483
190.000	774680.164	7487939.644
200.000	774672.769	7487946.375

Scale Horizontal 1:1000 Vertical 1:250

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORISED
1 20/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



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MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #2
PLAN & LONGITUDINAL SECTION
CH0 - CH200

FILL NO G1706-02-DR4.DWG

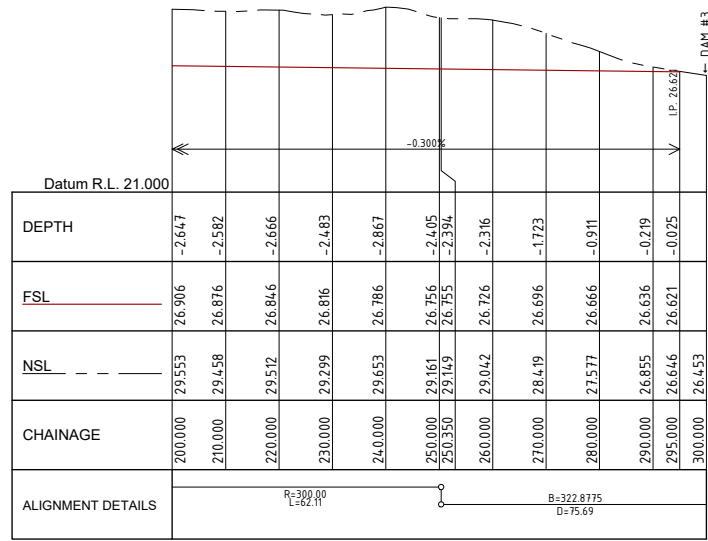
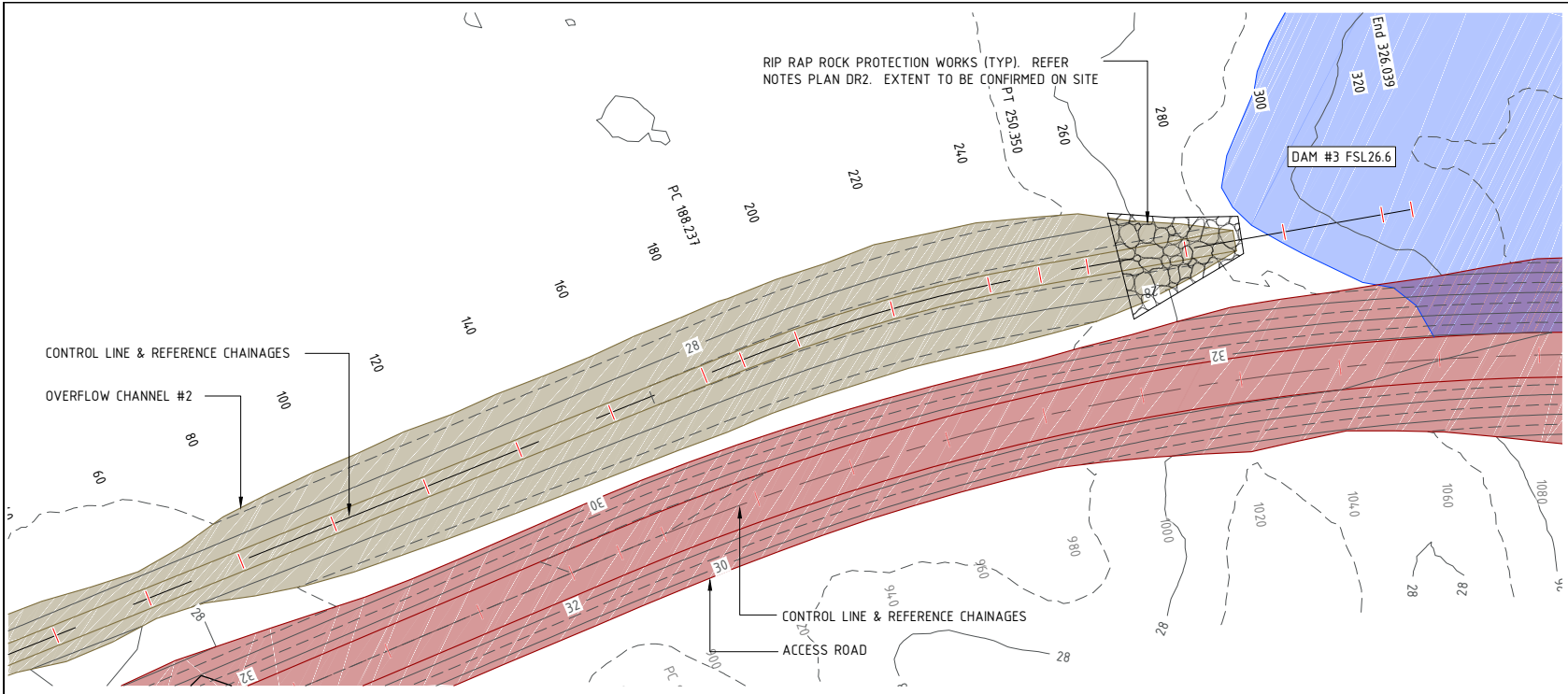
JOB NO G1706/02

SCALE 0 1:1000 HORZ 20 AT A3 SIZE
0 1:250 VERT 5

DRAWING NUMBER G1706-02-DR-14 1 15

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SETOUT OVERFLOW CHANNEL #2		
CHAINAGE	EASTING	NORTHING
200.000	774672.769	7487946.375
210.000	774665.602	7487953.348
220.000	774658.671	7487960.556
230.000	774651.985	7487967.992
240.000	774645.550	7487975.646
250.000	774639.374	7487983.510
250.350	774639.162	7487983.789
260.000	774633.339	7487991.483
270.000	774627.303	7487999.457
280.000	774621.268	7488007.430
290.000	774615.233	7488015.404

Scale Horizontal 1:1000 Vertical 1:250

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN	ASC	DATE	05/18
DESIGN	ASC	DATE	05/18



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MOB: 04 1718 7149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321
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CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #2
PLAN & LONGITUDINAL SECTION
CH200 - CH300

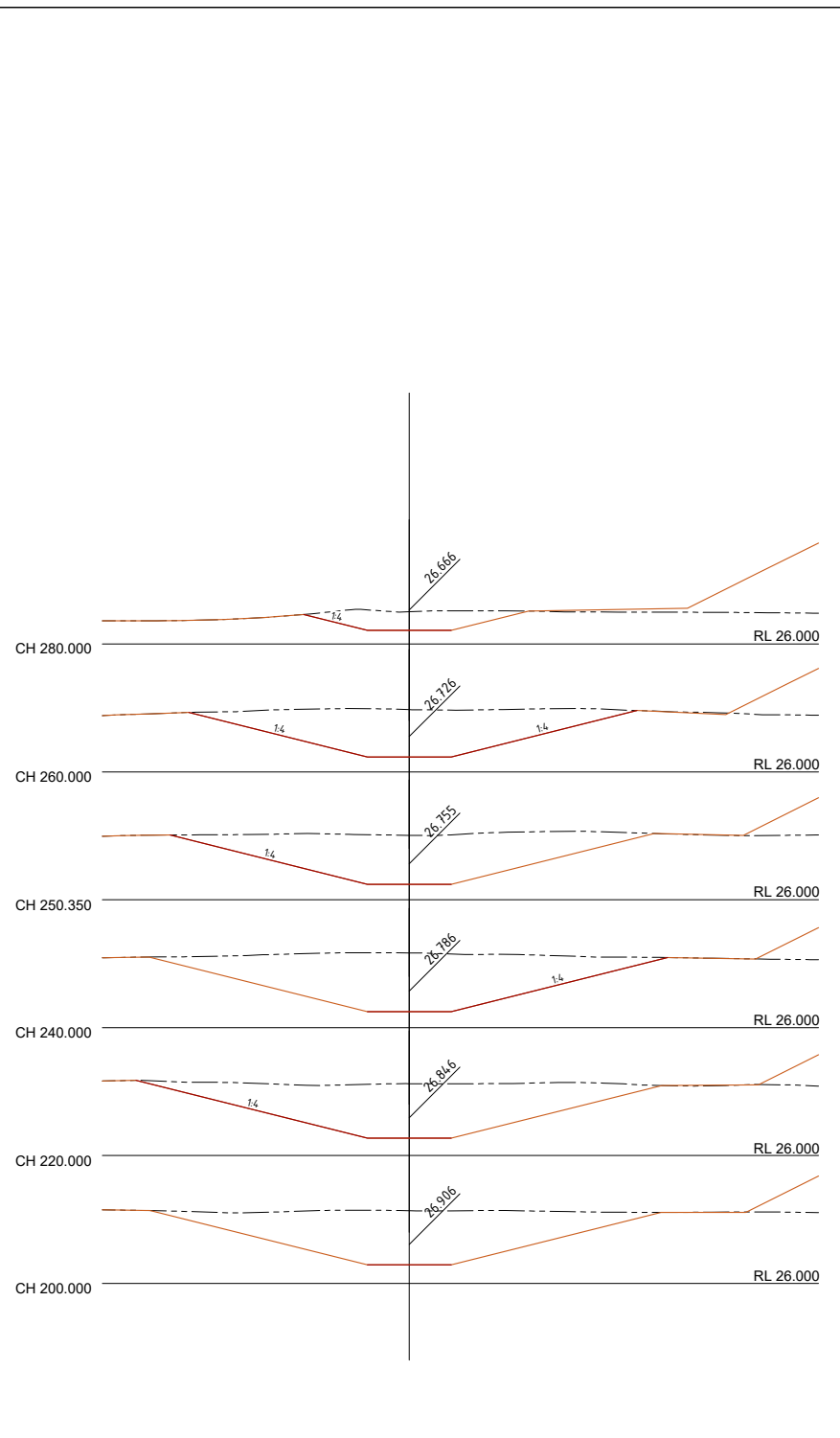
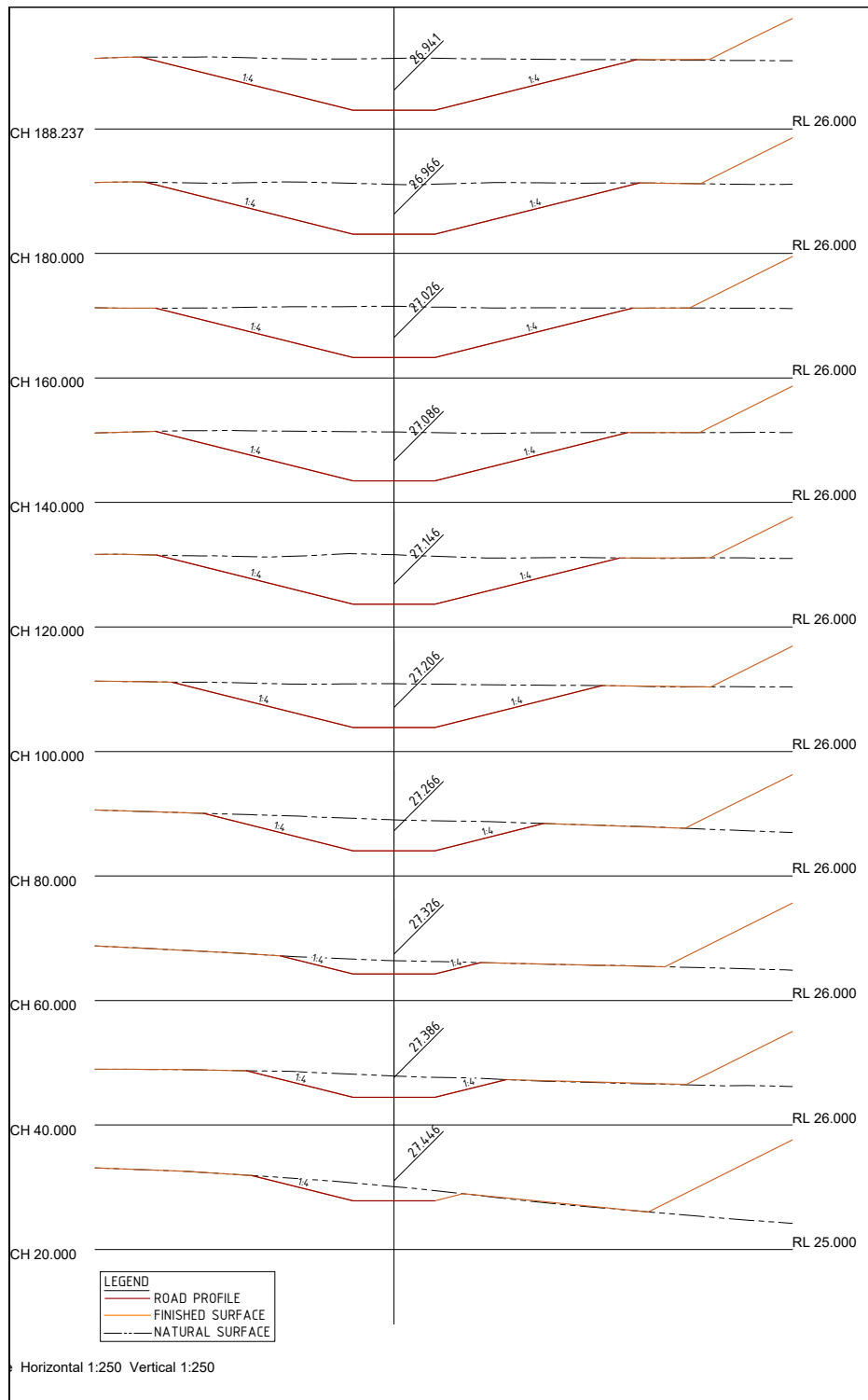
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JOB NO G1706/02

SCALE 0 1:1000 HORZ 20 AT A3 SIZE
0 1:250 VERT 5

DRAWING NUMBER G1706-02-DR-15
ISSUE 1
SHEET 16

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-DR4 (MIA-Dam - 1 Of Flow Channel Plan & Sections).dwg, DR16-17, 31/07/2018 11:53:16 AM



LEGEND
 — ROAD PROFILE
 — FINISHED SURFACE
 - - - NATURAL SURFACE

Horizontal 1:250 Vertical 1:250

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
 DESIGN: ASC DATE: 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MOB: 04 1718 7149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 OVERFLOW CHANNEL #2
 CROSS SECTIONS

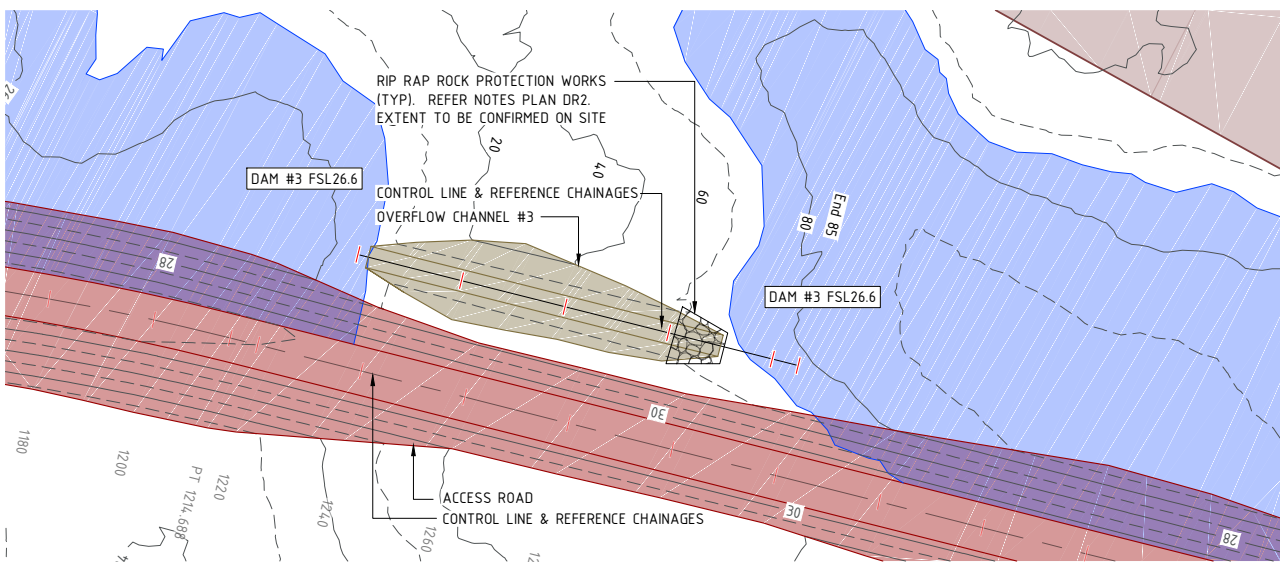
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 JOB NO: G1706/02

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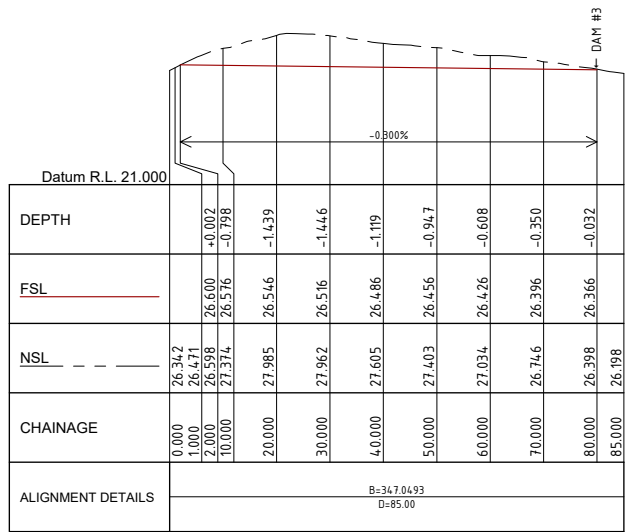
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 ISSUE: 1
 SHEET: 17

PRINT IN COLOUR

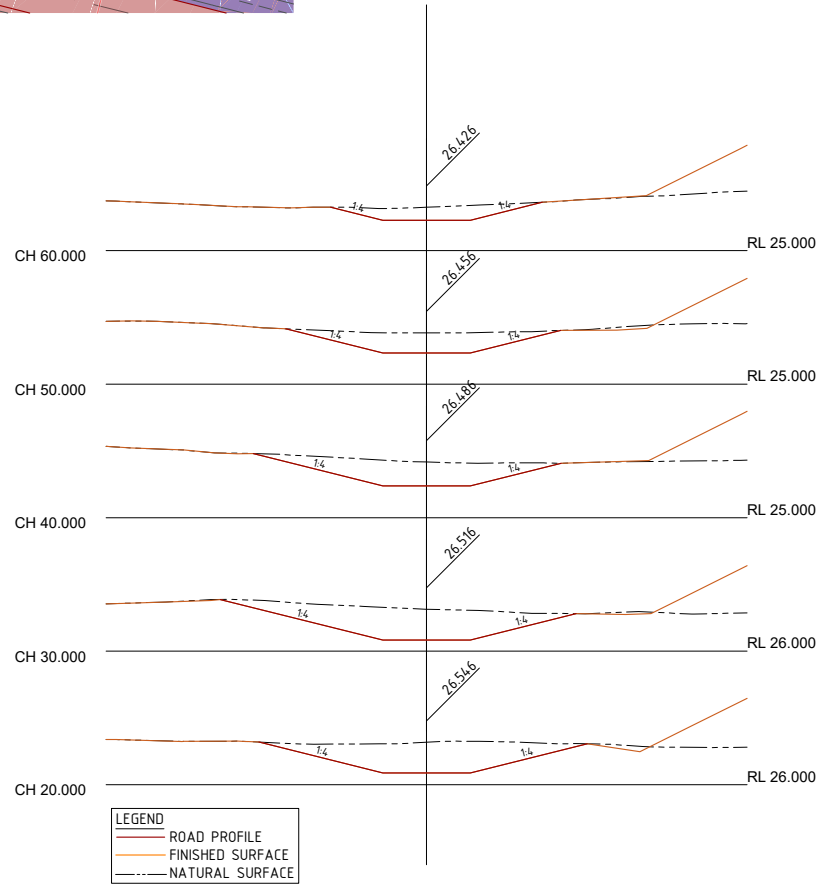
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CHAINAGE	EASTING	NORTHING
2.000	774535.182	7488221.905
10.000	774533.389	7488229.701
20.000	774531.148	7488239.447
30.000	774528.907	7488249.193
40.000	774526.666	7488258.938
50.000	774524.425	7488268.684
60.000	774522.184	7488278.430
70.000	774519.943	7488288.175
80.000	774517.701	7488297.921



Scale Horizontal 1:1000 Vertical 1:250



LEGEND

- ROAD PROFILE
- - - FINISHED SURFACE
- · · NATURAL SURFACE

Scale Horizontal 1:250 Vertical 1:250

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE

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ENGINEERS PTL
CONSULTING ENGINEERS
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 05/18

DESIGN: ASC DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

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MOB: 04 1718 7149
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MACKAY

RPEQ 4321 DATE 23/07/17
APPROVED FOR ISSUE

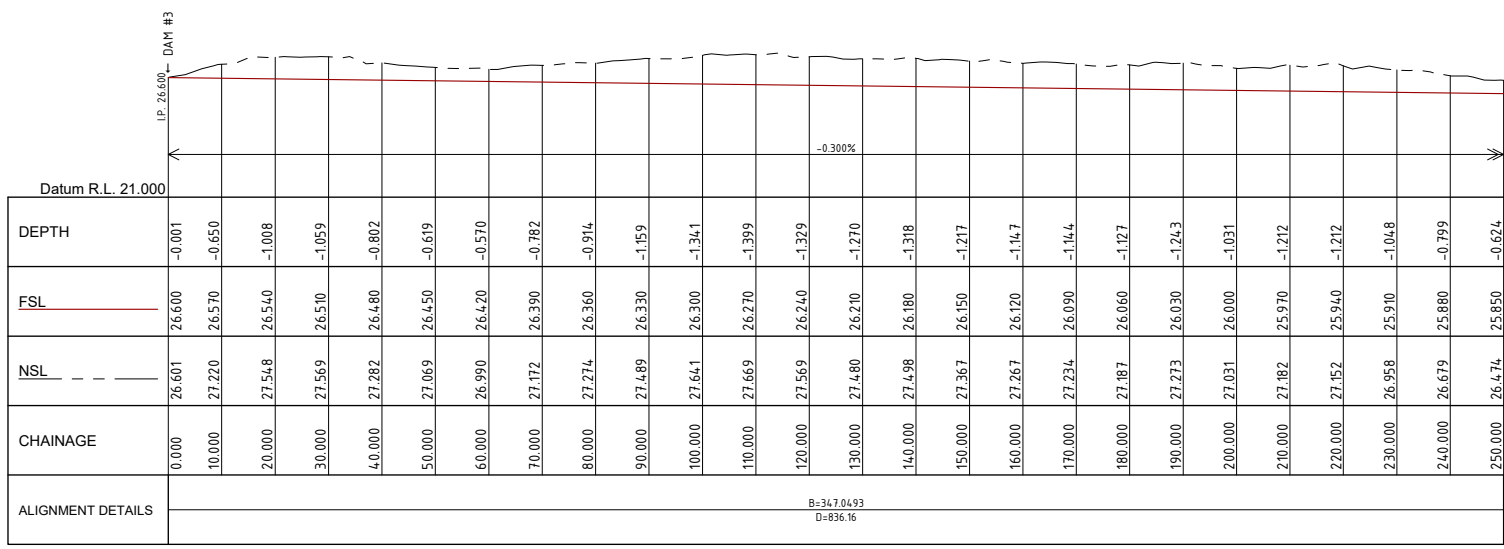
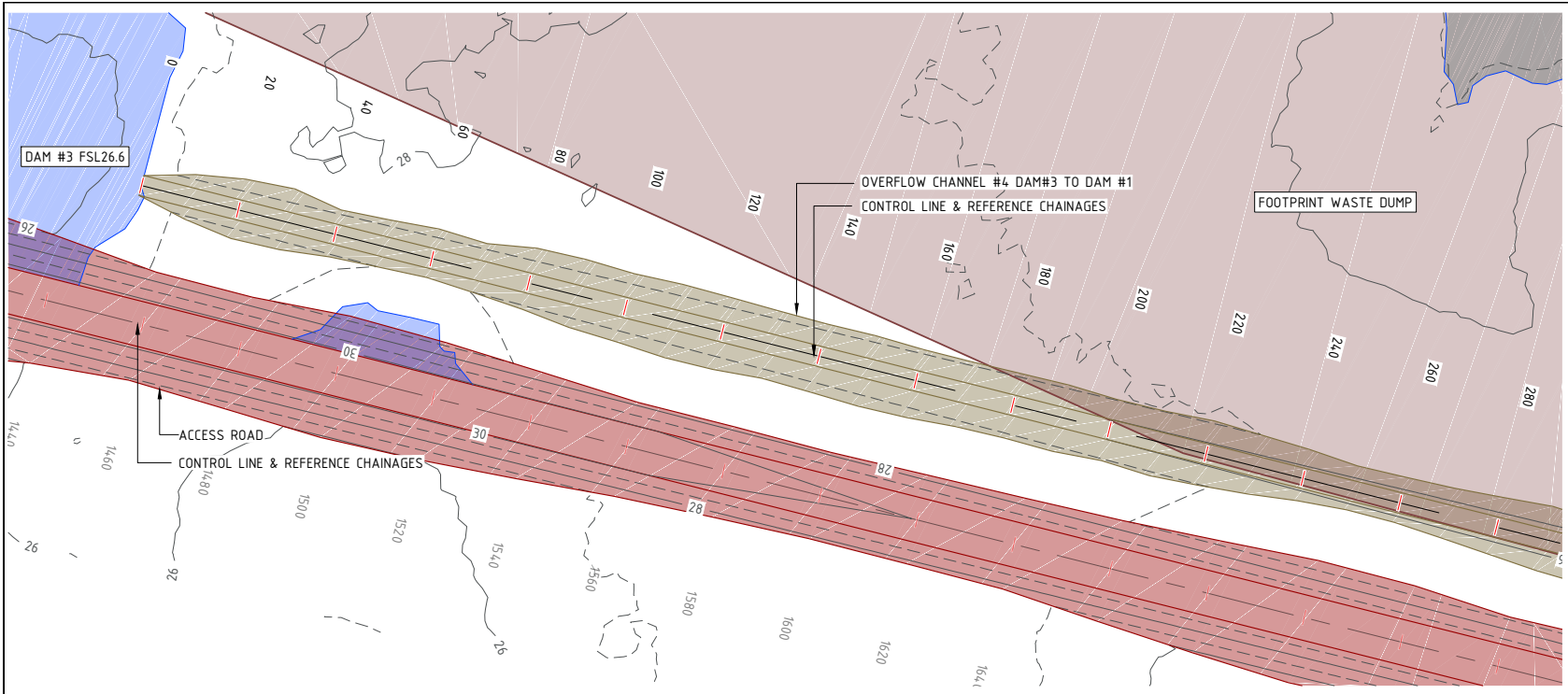
CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #3
PLAN, LONGITUDINAL SECTION
& CROSS SECTIONS

FILE NO	G1706-02-DR4.DWG
JOB NO	G1706/02
SCALE	0 1:1000 HORZ 20 AT 1:250 VERT 5 A3 SIZE
DRAWING NUMBER	G1706-02-DR-17
ISSUE	1
SHEET	18

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02\DR4 (MIA-Dam: 1 Overflow Channel Plan & Sections).dwg, DR18-19, 31/07/2018 11:53:18 AM



CHAINAGE	EASTING	NORTHING
0.000	774480.731	7488431.918
10.000	774478.489	7488441.664
20.000	774476.248	7488451.409
30.000	774474.007	7488461.155
40.000	774471.766	7488470.901
50.000	774469.525	7488480.646
60.000	774467.284	7488490.392
70.000	774465.043	7488500.137
80.000	774462.801	7488509.883
90.000	774460.560	7488519.629
100.000	774458.319	7488529.374
110.000	774456.078	7488539.120
120.000	774453.837	7488548.866
130.000	774451.596	7488558.611
140.000	774449.355	7488568.357
150.000	774447.114	7488578.102
160.000	774444.872	7488587.848
170.000	774442.631	7488597.594
180.000	774440.390	7488607.339
190.000	774438.149	7488617.085
200.000	774435.908	7488626.831
210.000	774433.667	7488636.576
220.000	774431.426	7488646.322
230.000	774429.185	7488656.068
240.000	774426.943	7488665.813
250.000	774424.702	7488675.559

Scale Horizontal 1:1000 Vertical 1:250

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORISED
1 20/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



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CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS
OVERFLOW CHANNEL #4
PLAN & LONGITUDINAL SECTION
CH0 - CH250

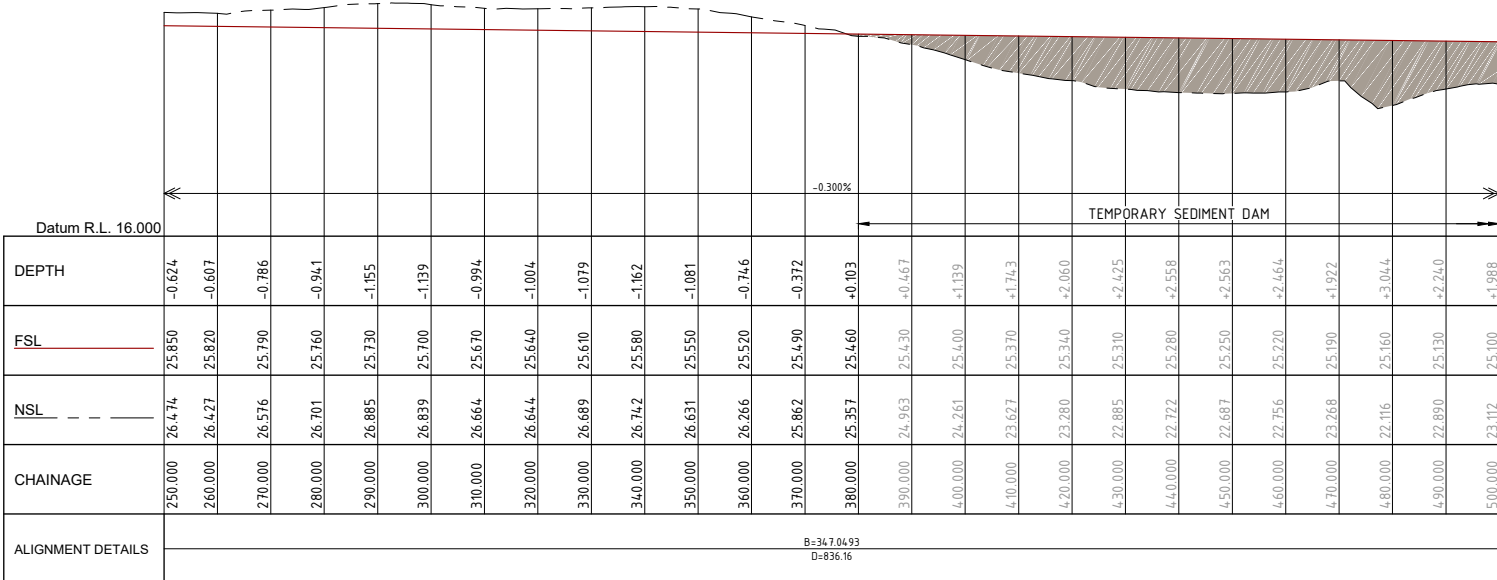
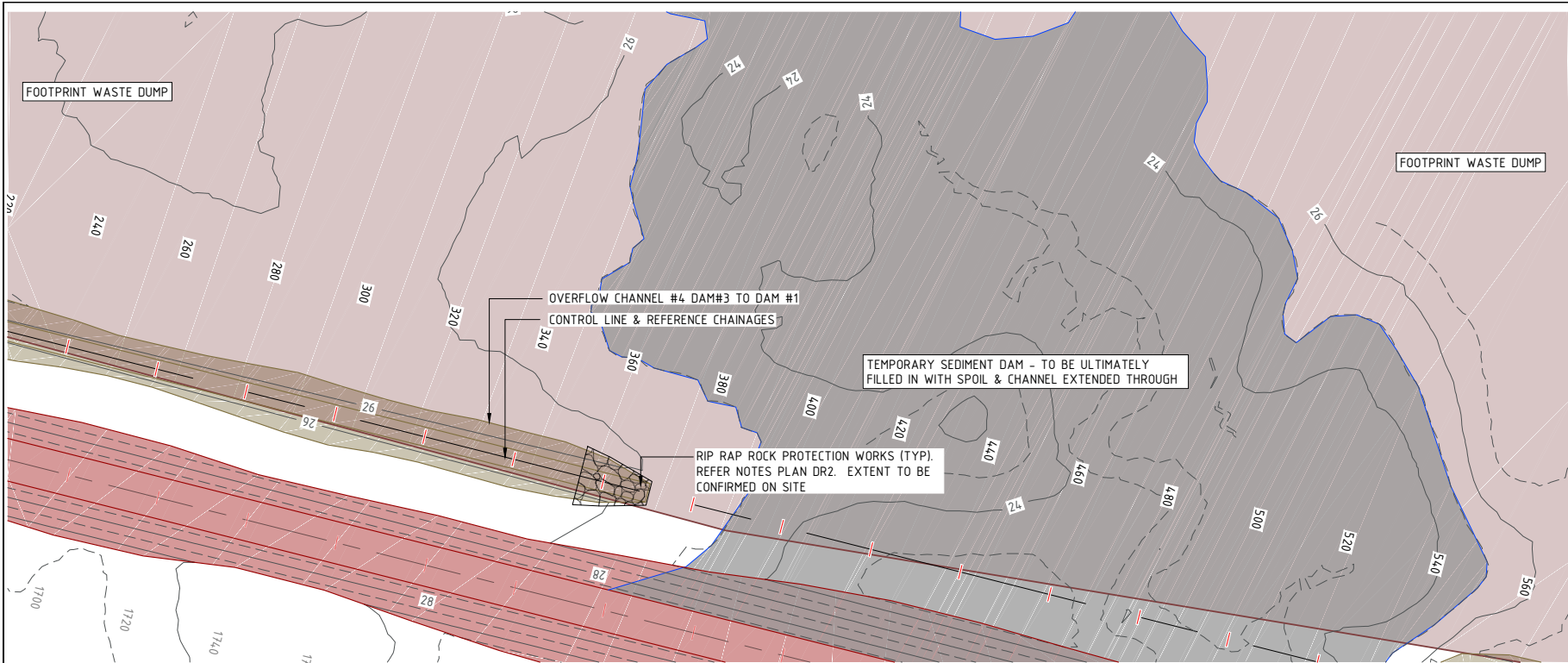
FILL NO G1706-02-DR4.DWG
JOB NO G1706/02

SCALE 0 1:1000 HORZ 20 AT A3 SIZE
0 1:250 VERT 5

DRAWING NUMBER G1706-02-DR-18 1 19

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E:\Jobs\Current\Styx (G1706-02)\ACADIProduction\G1706-02-DR4 (MIA-Dam: 1 OFlow Channel Plan & Sections).dwg, DR19-20, 31/07/2018 11:53:18 AM



SETOUT OVERFLOW CHANNEL #3	CHAINAGE	EASTING	NORTHING
	250.000	774424.702	7488675.559
	260.000	774422.461	7488685.304
	270.000	774420.220	7488695.050
	280.000	774417.979	7488704.796
	290.000	774415.738	7488714.541
	300.000	774413.497	7488724.287
	310.000	774411.255	7488734.033
	320.000	774409.014	7488743.778
	330.000	774406.773	7488753.524
	340.000	774404.532	7488763.269
	350.000	774402.291	7488773.015
	360.000	774400.050	7488782.761
	370.000	774397.809	7488792.506
	380.000	774395.568	7488802.252
	390.000	774393.326	7488811.998
	400.000	774391.085	7488821.743
	410.000	774388.844	7488831.489
	420.000	774386.603	7488841.234
	430.000	774384.362	7488850.980
	440.000	774382.121	7488860.726
	450.000	774379.880	7488870.471
	460.000	774377.639	7488880.217
	470.000	774375.397	7488889.963
	480.000	774373.156	7488899.708
	490.000	774370.915	7488909.454
	500.000	774368.674	7488919.200

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORIZED
1 20/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18



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EMAIL: amec1@bigpond.net.au
MACKAY

CENTRAL QUEENSLAND COAL PTL
RPEQ 4321
DATE: 23/07/17

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #4
PLAN & LONGITUDINAL SECTION
CH250 - CH500

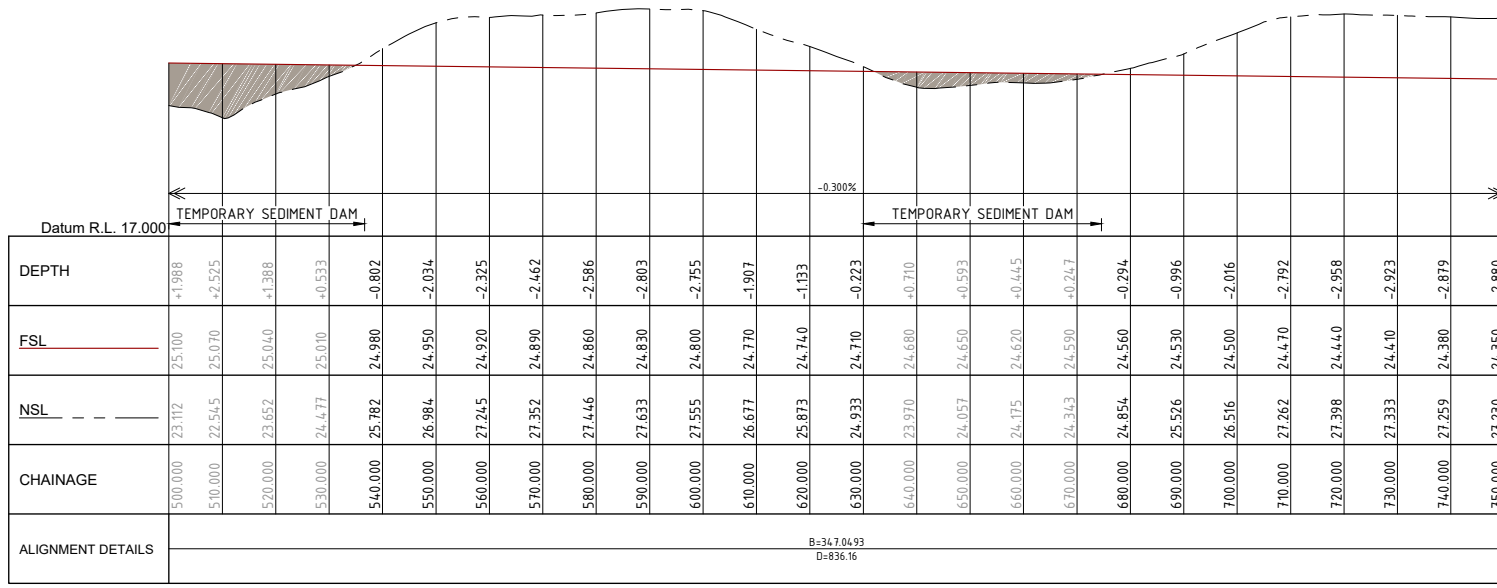
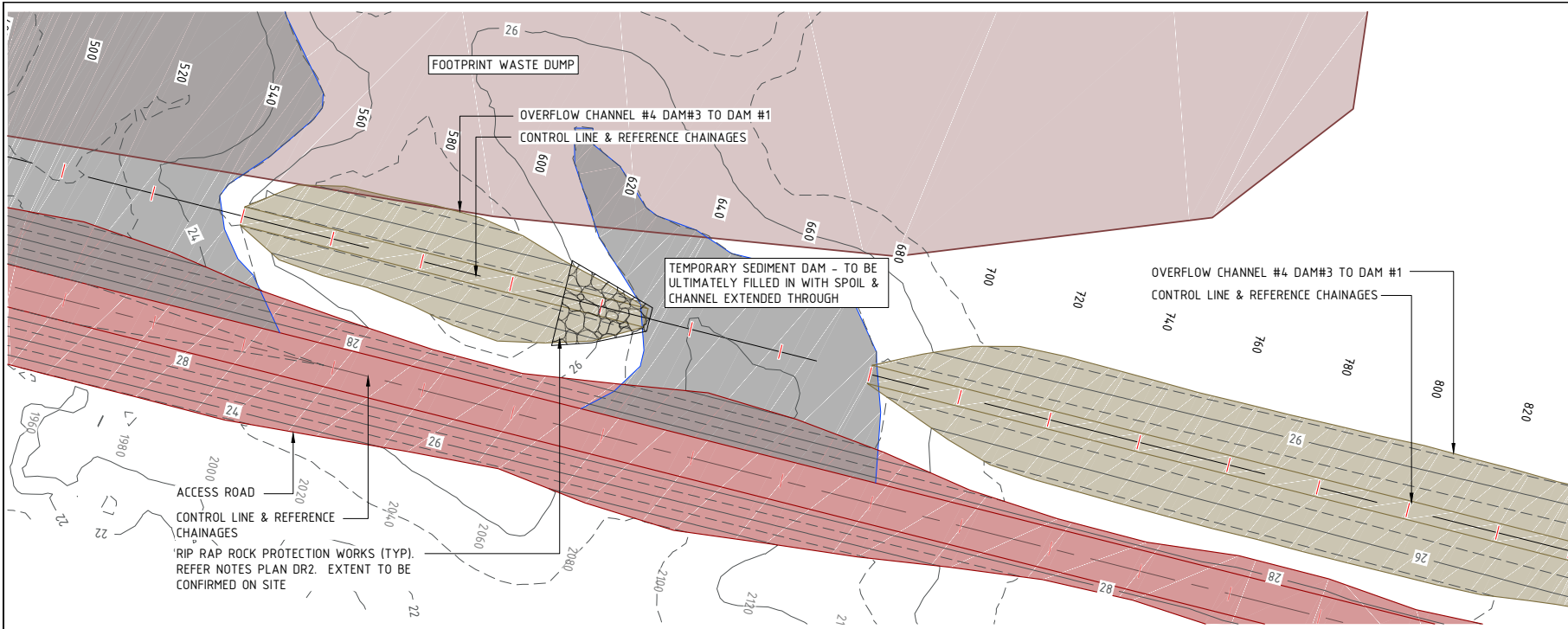
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JOB NO: G1706/02
SCALE: 0 1:1000 HORZ 20 AT A3 SIZE
0 1:250 VERT 5
DRAWING NUMBER: G1706-02-DR-19
ISSUE SHEET NO: 1 20

PRINT IN COLOUR

Scale Horizontal 1:1000 Vertical 1:250

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CHAINAGE	EASTING	NORTHING
500.000	774368.674	7488919.200
510.000	774366.433	7488928.945
520.000	774364.192	7488938.691
530.000	774361.951	7488948.436
540.000	774359.709	7488958.182
550.000	774357.468	7488967.928
560.000	774355.227	7488977.673
570.000	774352.986	7488987.419
580.000	774350.745	7488997.165
590.000	774348.504	7489006.910
600.000	774346.263	7489016.656
610.000	774344.022	7489026.401
620.000	774341.780	7489036.147
630.000	774339.539	7489045.893
640.000	774337.298	7489055.638
650.000	774335.057	7489065.384
660.000	774332.816	7489075.130
670.000	774330.575	7489084.875
680.000	774328.334	7489094.621
690.000	774326.093	7489104.367
700.000	774323.851	7489114.112
710.000	774321.610	7489123.858
720.000	774319.369	7489133.603
730.000	774317.128	7489143.349
740.000	774314.887	7489153.095
750.000	774312.646	7489162.840

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE

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CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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ISSUE DATE	SUBJECT	AUTHORISED
1 20/07/18	FIRST ISSUE	OK

DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE 23/07/18

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #4
PLAN & LONGITUDINAL SECTION
CH500 - CH750

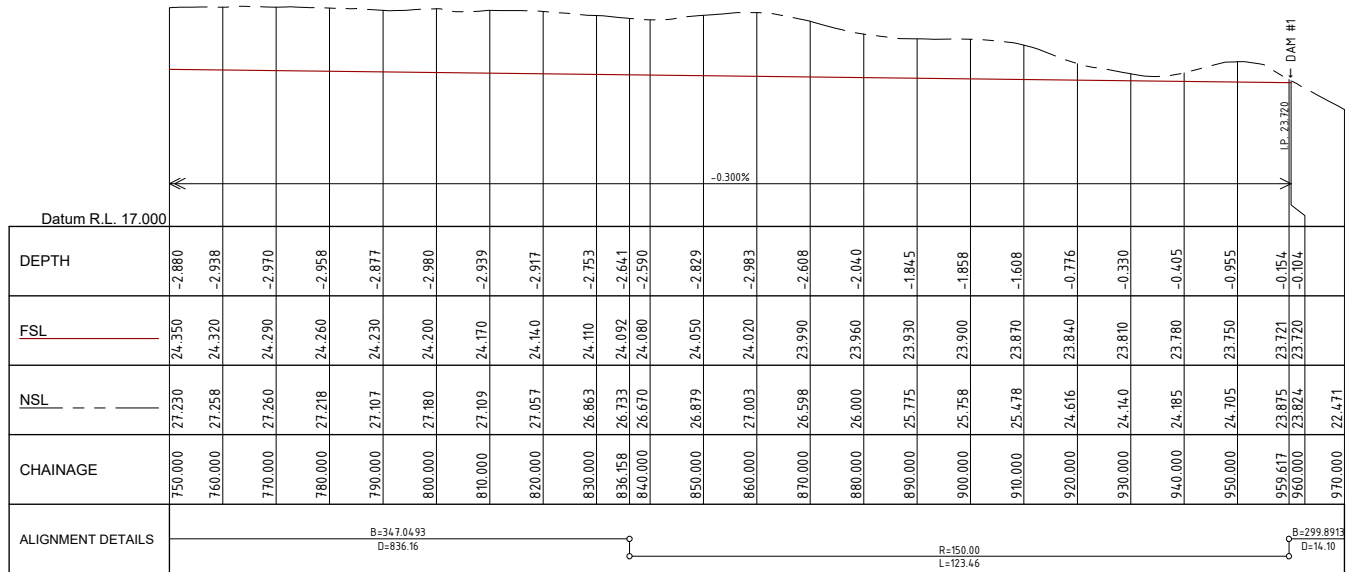
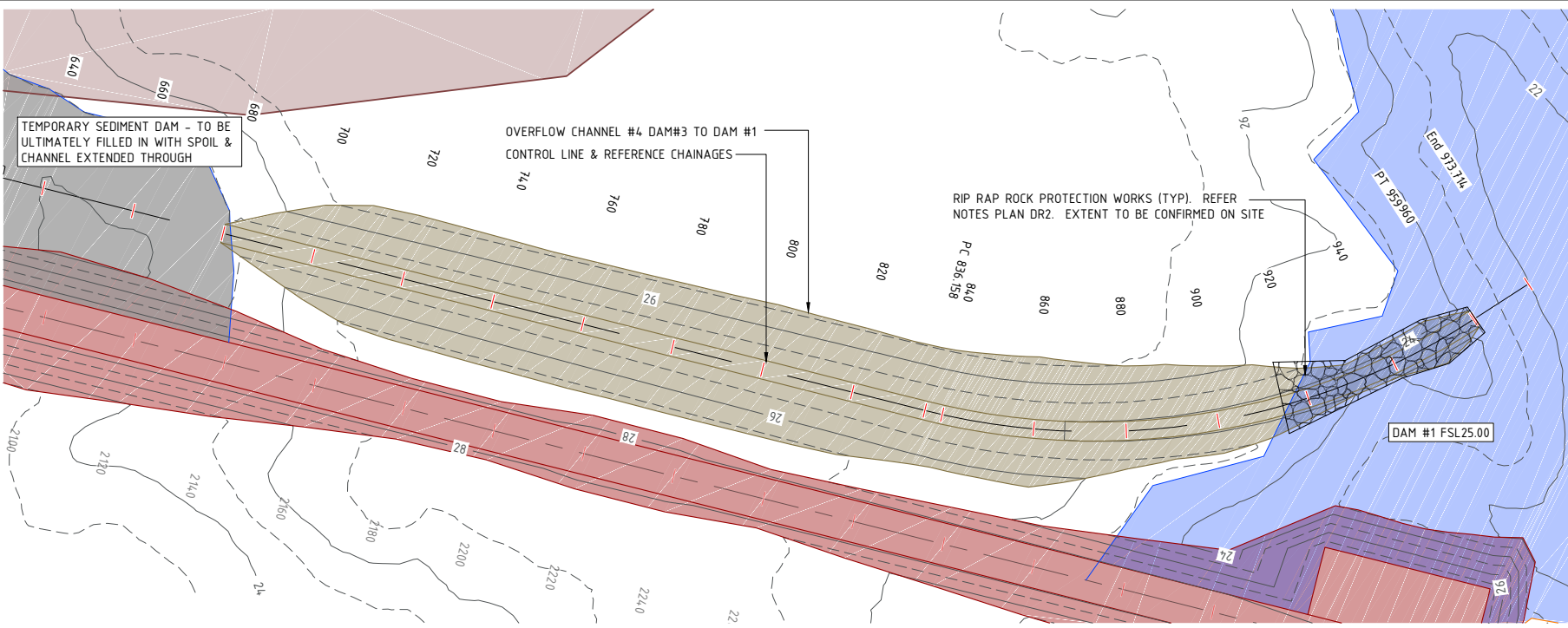
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SCALE 0 1:1000 HORZ 20 AT A3 SIZE
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DRAWING NUMBER G1706-02-DR-20 1 21

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SETOUT OVERFLOW CHANNEL #3

CHAINAGE	EASTING	NORTHING
750.000	774312.646	7489162.840
760.000	774310.405	7489172.586
770.000	774308.163	7489182.332
780.000	774305.922	7489192.077
790.000	774303.681	7489201.823
800.000	774301.440	7489211.568
810.000	774299.199	7489221.314
820.000	774296.958	7489231.060
836.158	774293.337	7489246.807
840.000	774292.428	7489250.540
850.000	774289.617	7489260.134
860.000	774286.173	7489269.521
870.000	774282.112	7489278.657
890.000	774272.211	7489296.017
900.000	774266.415	7489304.164
910.000	774260.090	7489311.907
920.000	774253.262	7489319.211
930.000	774245.964	7489326.045
940.000	774238.226	7489332.376
950.000	774230.084	7489338.179
959.617	774221.906	7489343.235
960.000	774221.574	7489343.426
970.000	774212.904	7489348.410
973.714	774209.684	7489350.261

Scale Horizontal 1:1000 Vertical 1:250

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 1.0m FINISHED SURFACE



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CONSULTING ENGINEERS
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email: adslu3d8@tpg.com.au

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AMENDMENTS

ISSUE DATE	SUBJECT	AUTHORISED
20/07/18	FIRST ISSUE	OK

XREF FILES

DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18



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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/18

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
OVERFLOW CHANNEL #4
PLAN & LONGITUDINAL SECTION
CH750 - CH970

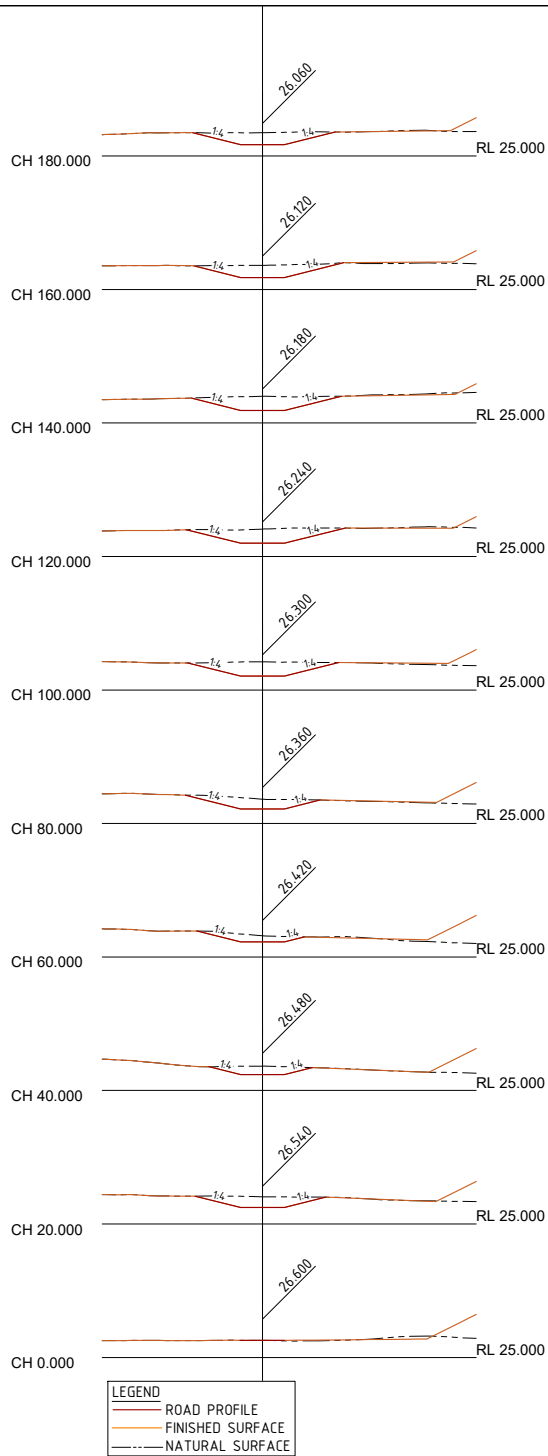
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JOB NO G1706/02

SCALE 0 1:1000 HORIZ 20 AT A3 SIZE
0 1:250 VERT 5

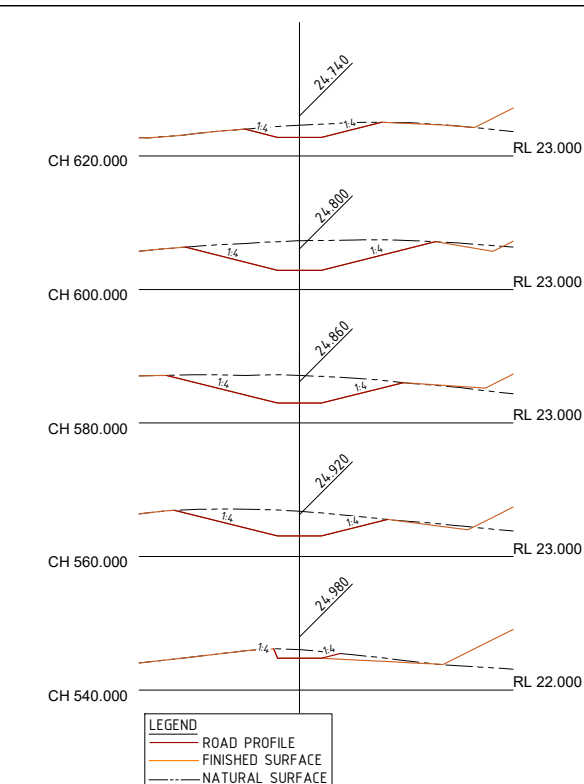
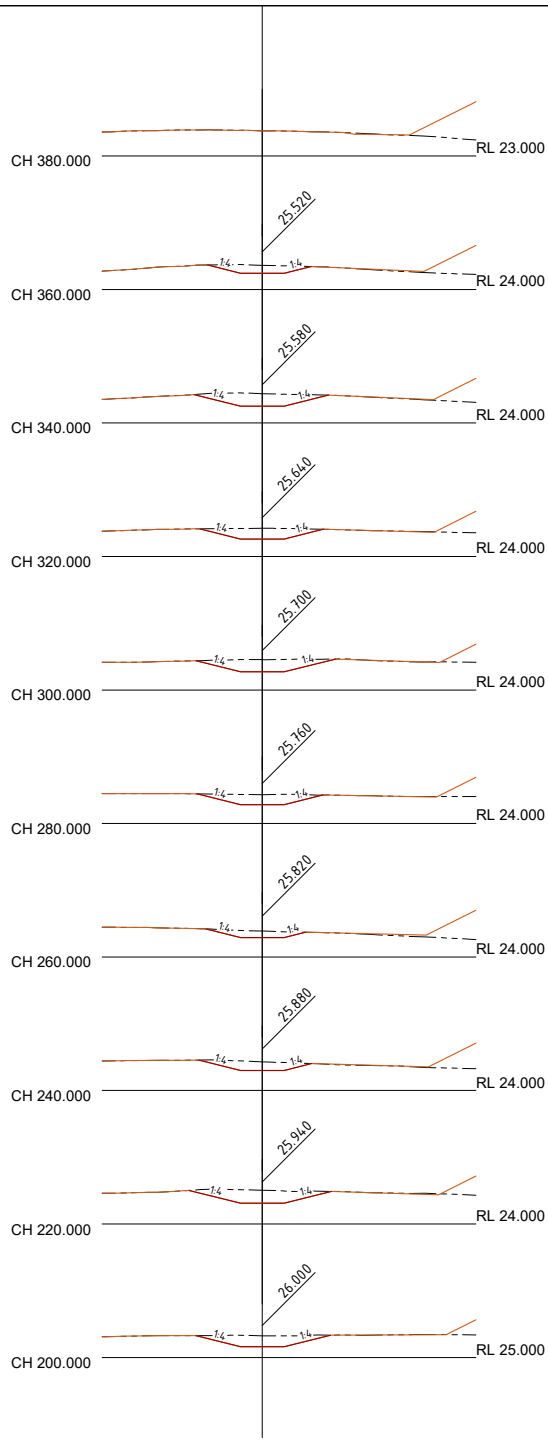
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E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-DR4 (MIA-Dam: 1 OF Flow Channel Plan & Sections).dwg, DR22-23, 31/07/2018 11:53:22 AM



LEGEND
 ROAD PROFILE
 FINISHED SURFACE
 NATURAL SURFACE



LEGEND
 ROAD PROFILE
 FINISHED SURFACE
 NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
 DESIGN: ASC DATE: 05/18



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 MACKAY

RPEQ 4321
 APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 OVERFLOW CHANNEL #4
 CROSS SECTIONS CH0 - CH620

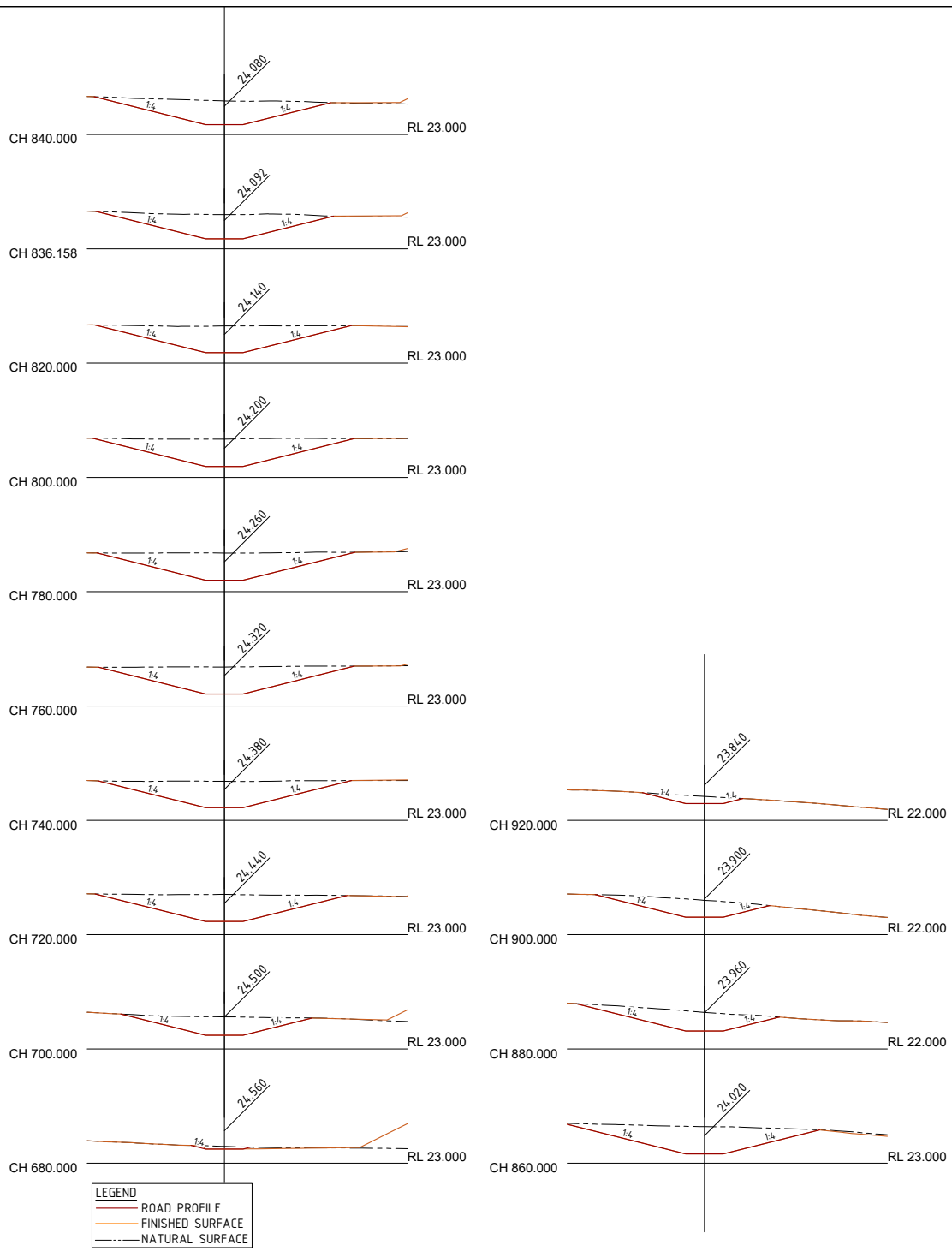
FILL NO: G1706-02-DR4.DWG
 JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-DR-22
 ISSUE: 1
 SHEET: 23

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-DR4 (MIA-Dam: 1 Of Flow Channel Plan & Sections).dwg, DR23-24, 31/07/2018 11:53:22 AM



Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	20/07/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 05/18
 DESIGN: ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4 954 9429
 MOB: 04 1718 7149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 OVERFLOW CHANNEL #4
 CROSS SECTIONS CH680 - CH920

FILL NO G1706-02-DR4.DWG
 JOB NO G1706/02

SCALE 0 1500 HORZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER G1706-02-DR-23 1 24

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CENTRAL QUEENSLAND COAL

DRAWING INDEX

SHEET	DWG NO.	REV	DESCRIPTION
CIVIL WORKS			
1	G1706-02-GA-1	2	SITE PLAN
MINE ACCESS ROAD			
2	G1706-02-AR-1	3	ALIGNMENT SETOUT
3	G1706-02-AR-2	3	TYPE CROSS SECTION & DETAILS
4	G1706-02-AR-3	3	PLAN & LONGITUDINAL SECTION SHEET 1 OF 4
5	G1706-02-AR-4	3	PLAN & LONGITUDINAL SECTION SHEET 2 OF 4
6	G1706-02-AR-5	3	PLAN & LONGITUDINAL SECTION SHEET 3 OF 4
7	G1706-02-AR-6	3	PLAN & LONGITUDINAL SECTION SHEET 4 OF 4
8	G1706-02-AR-7	3	CROSS SECTIONS SHEET 1 OF 3
9	G1706-02-AR-8	3	CROSS SECTIONS SHEET 2 OF 3
10	G1706-02-AR-9	3	CROSS SECTIONS SHEET 3 OF 3
11	G1706-02-AR-10	3	CULVERT SECTIONS



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- THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
- THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
- AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
- THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
- SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS.

EXISTING LEVELS AND SERVICES

- NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
- THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
- PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

ENVIRONMENTAL MANAGEMENT

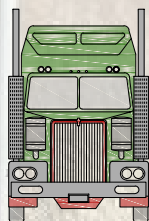
- THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
- THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
- THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
- ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
- ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

- UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES (CMDG) STANDARD DRAWINGS OR TRANSPORT MAIN ROADS (TMR) STANDARD DRAWINGS.

PROPERTY DESCRIPTION:
MINING LEASE ML80187

DATUM
MGA ZONE 55



CENTRAL QUEENSLAND COAL MINE ACCESS ROAD JOB NO. G1706/02



AUSTRALIAN MINING ENGINEERING
CONSULTANTS

INDEX DRAWINGS

G1706-02-AR-0

SECOND ISSUE 180601

SECOND ISSUE 180601

SECOND ISSUE 180601

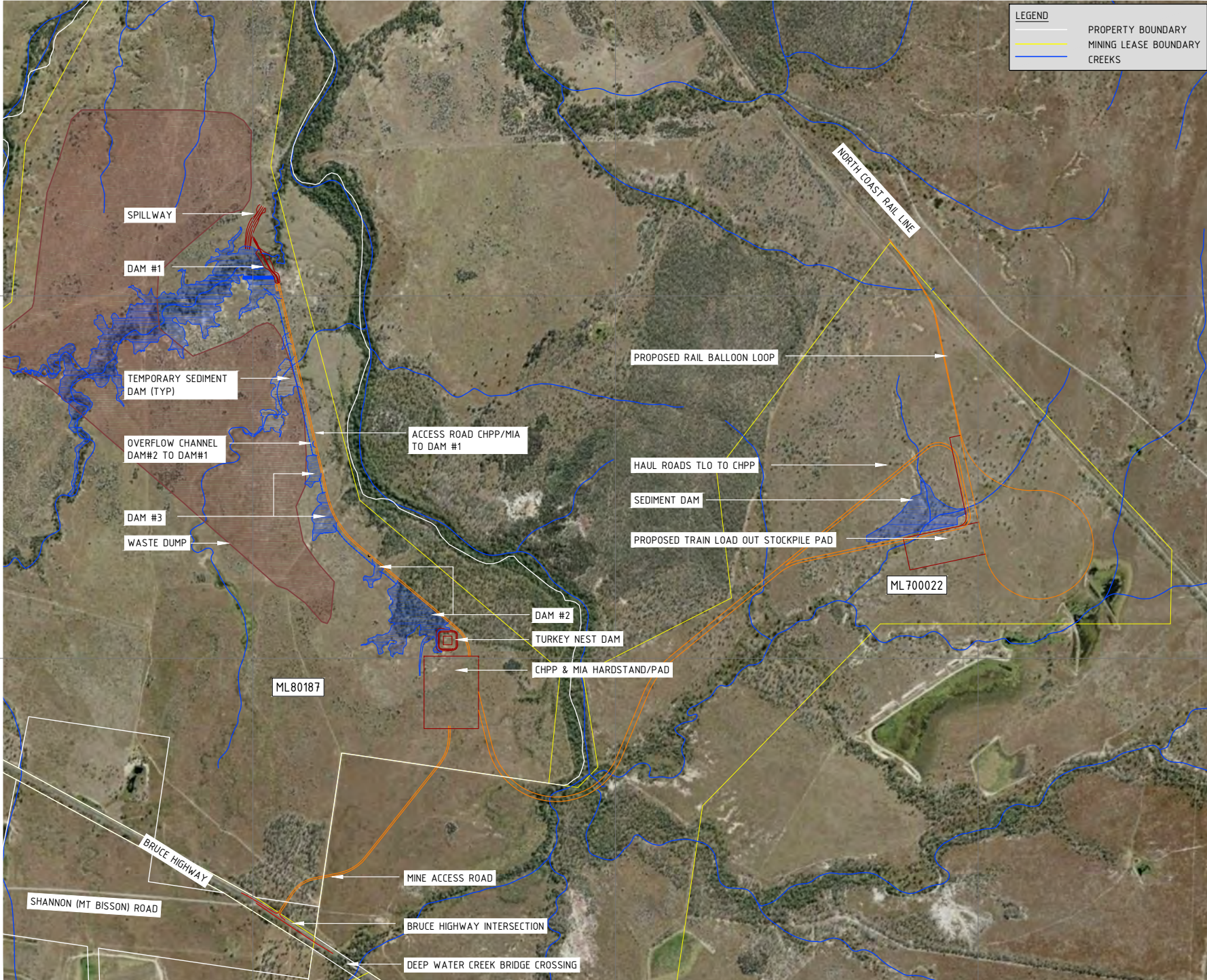
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776150.000mE

778150.000mE

7489310.000mN

7487310.000mN



774150.000mE

776150.000mE

778150.000mE

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55



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 ACN 054 355 252
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 SITE PLAN

TITLE NO: G1706-02-GA1.DWG
 JOB NO: G1706/02

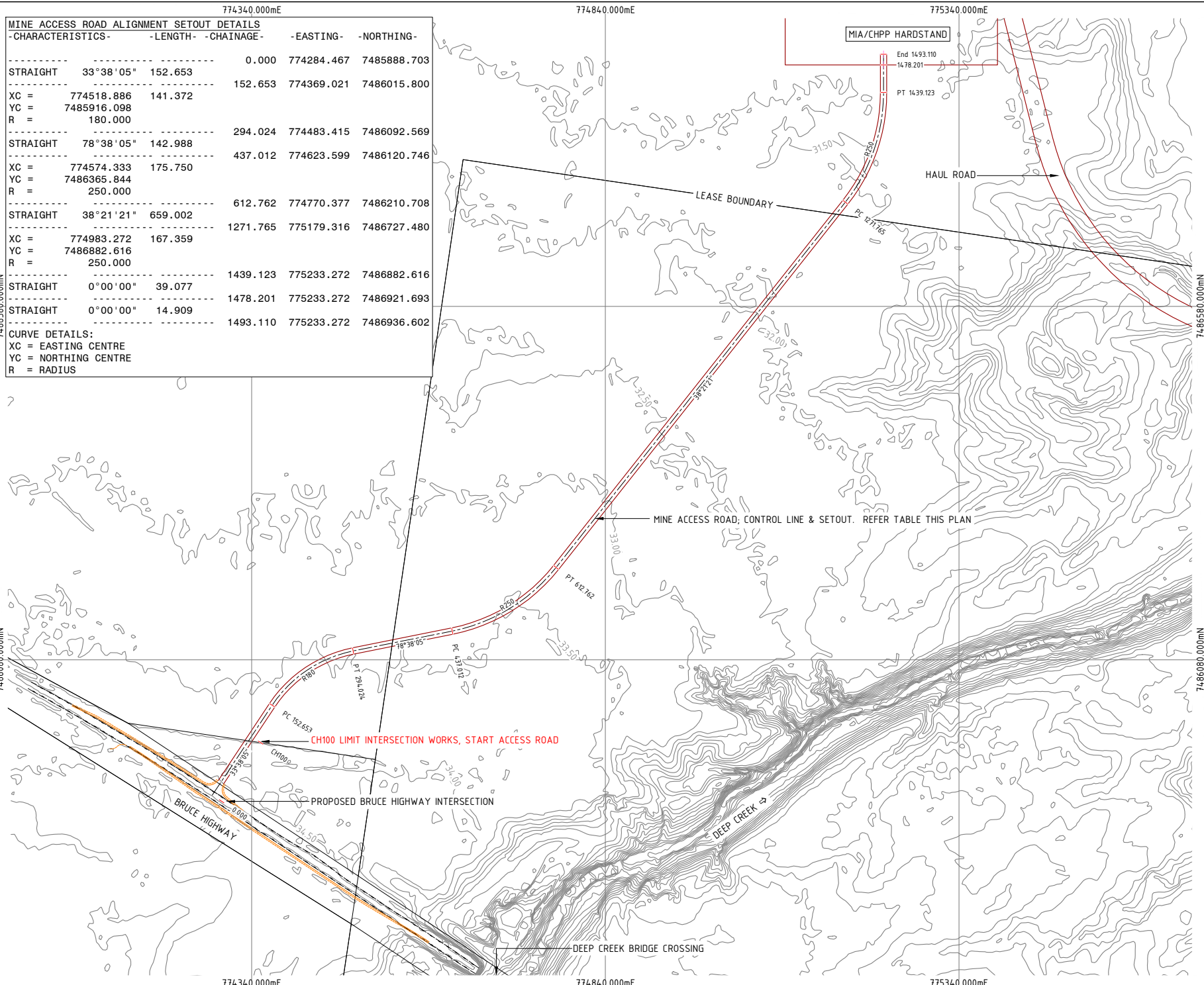
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DRAWING NUMBER: G1706-02-GA-1
 ISSUE SHEET NO: 2 1

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E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-AR1 (Access Rd Site Plan).dwg, AR1-2, 31/07/2018 11:44:12 AM



MINE ACCESS ROAD ALIGNMENT SETOUT DETAILS					
- CHARACTERISTICS -	- LENGTH -	- CHAINAGE -	- EASTING -	- NORTHING -	
STRAIGHT	33°38'05"	152.653	0.000	774284.467	7485888.703
				152.653	774369.021
				774369.021	7486015.800
XC =	774518.886	141.372			
YC =	7485916.098				
R =	180.000				
		294.024	774483.415	7486092.569	
STRAIGHT	78°38'05"	142.988			
			437.012	774623.599	7486120.746
XC =	774574.333	175.750			
YC =	7486365.844				
R =	250.000				
		612.762	774770.377	7486210.708	
STRAIGHT	38°21'21"	659.002			
			1271.765	775179.316	7486727.480
XC =	774983.272	167.359			
YC =	7486882.616				
R =	250.000				
		1439.123	775233.272	7486882.616	
STRAIGHT	0°00'00"	39.077			
			1478.201	775233.272	7486921.693
STRAIGHT	0°00'00"	14.909			
			1493.110	775233.272	7486936.602

CURVE DETAILS:			
XC =	EASTING CENTRE		
YC =	NORTHING CENTRE		
R =	RADIUS		

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE

COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	27/05/18	FIRST ISSUE
2	1/06/18	SECOND ISSUE
3	15/07/18	REVISED HWY INTERSECTION

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

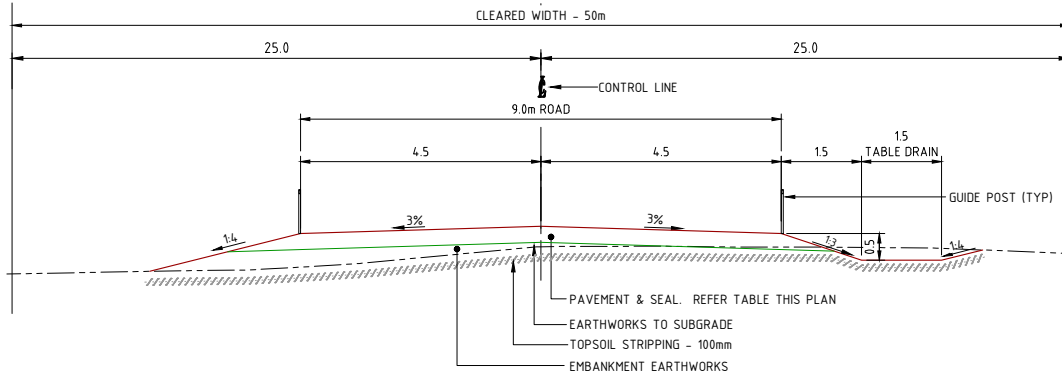
AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

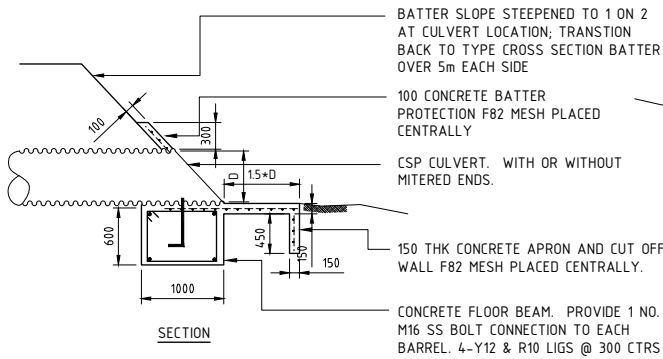
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
ALIGNMENT SETOUT

TITLE NO: G1706-02-AR1.DWG
JOB NO: G1706/02
SCALE: 0 15000 HORZ. 100^{AT} A3 SIZE
DRAWING NUMBER: G1706-02-AR-1 ISSUE: 3 SHEET: 2

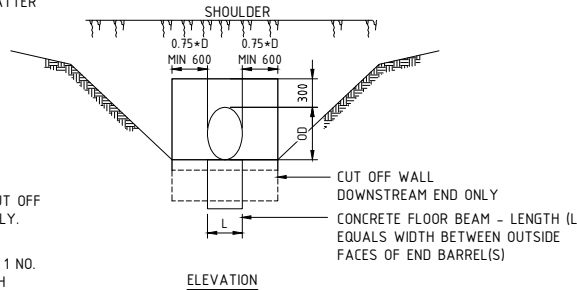
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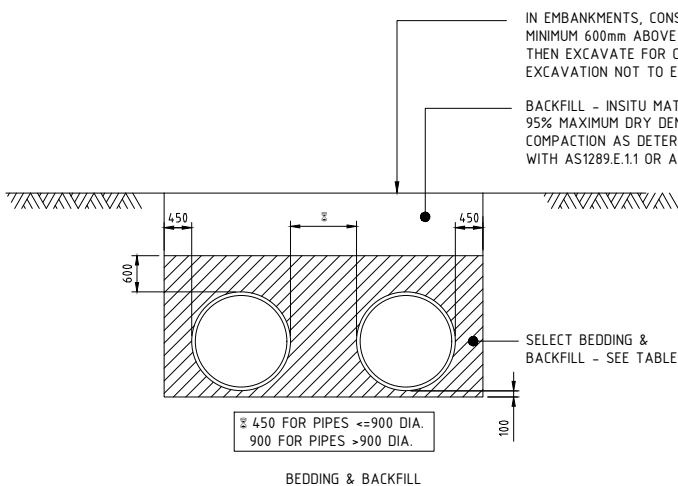
TYPICAL ROAD CROSS



SECTION



ELEVATION



BEDDING & BACKFILL

DETAIL FOR CSP CULVERT END TREATMENT DIMENSIONS MILLIMETRES

HELICOR PIPE BEDDING & BACKFILL DETAILS

SIEVE SIZE	MASS OF SAMPLE PASSING %
75	100
53	80 - 100
9.5	60 - 85
2.36	25 - 75
0.075	0 - 10

SELECT BACKFILL MATERIAL SHALL COMPLY WITH THESE GRADING REQUIREMENTS & HAVE A MAXIMUM LINEAR SHRINKAGE OF 8% DETERMINED IN ACCORDANCE WITH AS1289.E.1.1. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY FOR STANDARD COMPACTIVE EFFORT AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2. HELICOR PIPE COMPONENTS - AS1761-1985. PIPE DESIGN AND CONSTRUCTION - AS1762-1984. REFER TO MANUFACTURER SPECS FOR FULL DETAILS. WITH AS1289.E.4.1. ALL BACKFILL MATERIAL SHALL

PAVEMENT DETAILS - CH100 TO CH1480
 BASE COURSE 300mm COMPACTED DEPTH FRESH PERMIAN SANDSTONE SPOIL; SUB-BASE(1) COURSE IF ORDERED 150mm SELECTED MATERIAL MIN CBR 10%.
 SEAL DETAILS - CH100 TO CH1480
 APPLICATION OF DUST SUPPRESSION PRODUCT DUST-A-SIDE AUSTRALIA DAS PRODUCT @ OR APPROVED EQUIVALENT APPLIED IN ACCORDANCE WITH MANUFACTURER/SUPPLIERS RECOMMENDATIONS
 PAVEMENT MATERIALS TO BE SUPPLIED IN STOCKPILE BY THE MINE.

- NOTES
- CONNECTION TO EXISTING WORKS: LEVELS MAY BE VARIED WHERE NECESSARY TO ACHIEVE A SATISFACTORY CONNECTION TO EXISTING WORKS.
 - EMBANKMENT EARTHWORKS: WELL GRADED NON LOCALLY SOURCED MATERIAL; MAX PARTICLE SIZE 150mm; LL < 30%; PI < 15%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
 - BATTERS & DRAINS: OUTER FACE OF BATTERS TO BE WHEEL ROLLED; BATTERS & DRAINS TO BE FINAL TRIMMED; & RE-SPREAD MIN 100mm TOPSOIL ON FINISHED SURFACE.
 - RE-VEGETATION OF BATTERS & DRAINS: TO BE ADVISED BY PRINCIPAL.
 - CULVERTS: ALL CULVERTS UNLESS SHOWN OTHERWISE TO BE HELICAL LOCK SEAM CORRUGATED STEEL 2.0mm PLATE PIPES. ALL ENDS TO BE MITRED TO MATCH THE EMBANKMENT SLOPE. GROUND SLOPES ARE VERY FLAT & INVERT LEVELS MAY NEED TO BE ADJUSTED ON SITE TO SUIT.
 - ROAD SIGNS: INSTALLATION AS PER STANDARD DRAWING CMDG-R-08T. ALL SIGNS SIZE 'B'.
 - GUIDEPOSTS: ON STRAIGHTS TO INSTALLED IN PAIRS AT 300m SPACINGS. ON CURVES PROVIDE POSTS AT 6m SPACING ON INSIDE OF CURVE AND 12m SPACING ON OUTSIDE OF CURVE. AT SINGLE BARREL CULVERT CROSSINGS PROVIDE 2 POSTS EACH END ON EITHER SIDE. FOR MULTIPLE BARREL CROSSINGS PROVIDE ADDITIONAL POSTS WITHIN THE CROSSING AT 1m SPACINGS. GUIDE POSTS TO BE SAFEROADS FLEXLOC @ OR APPROVED EQUIV. INSTALLATION AS PER TMR STANDARD DRAWING 1356.

AUDIT TESTING SCHEDULE/COMPLIANCE STANDARDS		
SUBGRADE CBR'S	CBR TO MAIN ROADS (TMR) TEST Q113A (4 DAY SOAKED SPECIMENS, 4 POINT)	ONE TEST PER MATERIAL CHANGE. PLAN SHOWING EXTENT OF EACH TYPE OF MATERIAL TESTED.
PREPARATION OF NATURAL GROUND UNDER EMBANKMENTS	TOP 150mm FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ATERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
EMBANKMENT EARTHWORKS	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ATERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
SUBGRADE PREPARATION	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ATERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
STORMWATER TRENCH COMPACTION	FIELD DENSITY (AUSTRALIAN STANDARD)	WHERE TRENCH CROSSES THE ROAD ATERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION FOR THE FULL DEPTH OF ROAD CROSSING. AUDIT TESTS AS ORDERED ONLY.
PAVEMENT LAYERS	FIELD DENSITY (AUSTRALIAN STANDARD)	NOT APPLICABLE
PAVEMENT MATERIAL	QUALITY	EX STOCKPILE PROVIDED BY MINE. NO TESTING REQUIRED BY CONTRACTOR
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
CONCRETE FOR SLABS, HEADWALLS	COMPRESSION TEST (AUSTRALIAN STANDARD)	ONE (1) SET OF THREE CYLINDERS PER CULVERT INSTALLATION (1 X 7 DAYS, 2 X 28 DAYS).

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



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AMENDMENTS			
ISSUE	DATE	SUBJECT	APPROVED
1	27/05/18	FIRST ISSUE	OK
2	1/06/18	SECOND ISSUE	OK
3	15/07/18	REVISED HWY INTERSECTION	OK

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 05/18
 DESIGN: ASC DATE 05/18

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 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

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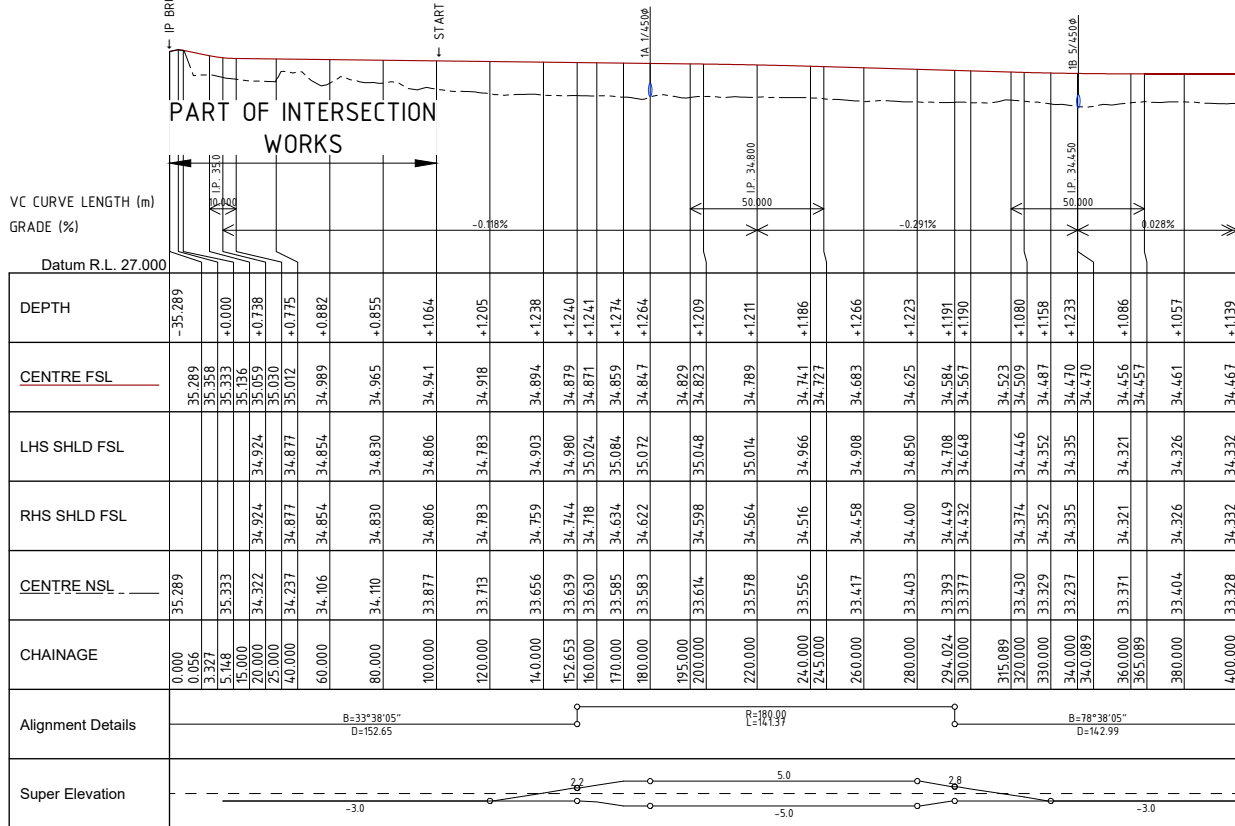
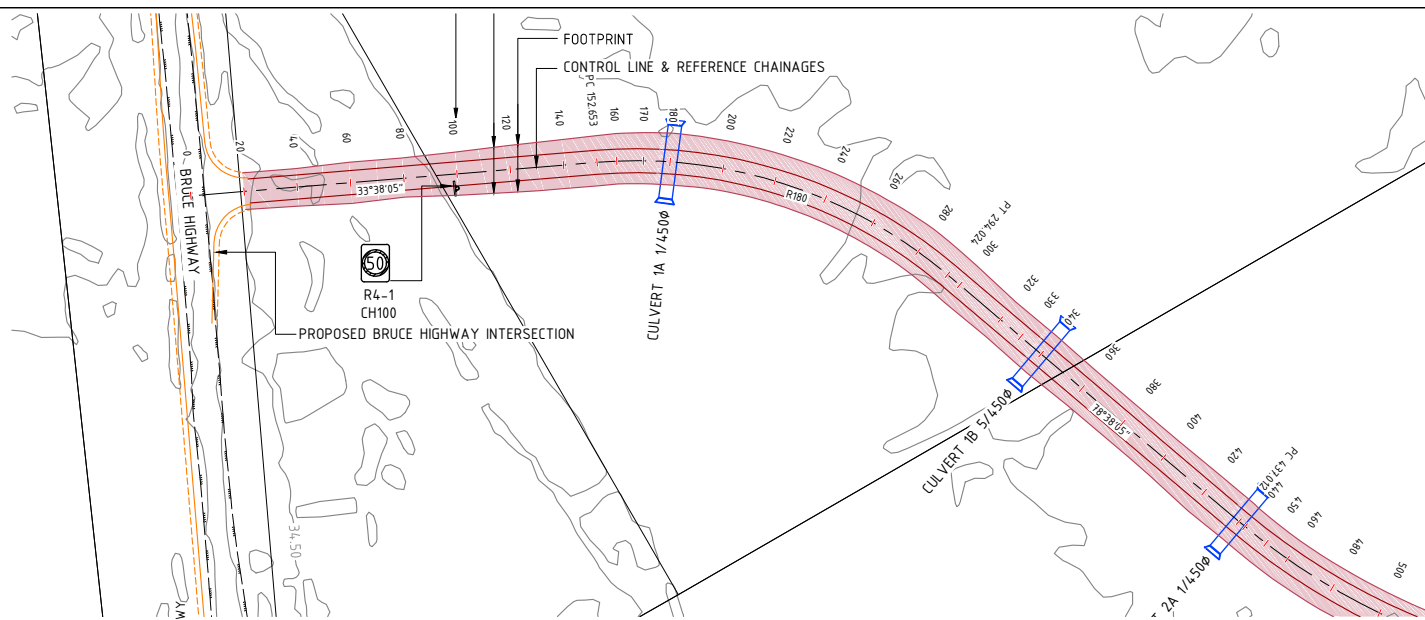
CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 MINE ACCESS ROAD
 TYPE CROSS SECTION & DETAILS

FILL NO: G1706-02-AR1.DWG
 JOB NO: G1706/02
 SCALE: NOT TO SCALE AT A3 SIZE
 DRAWING NUMBER: G1706-02-AR-2 ISSUE: 3 OF 3

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CONTROL LINE REFERENCE CHAINAGES		
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100.000	774339.857	7485971.962
120.000	774350.935	7485988.613
140.000	774362.013	7486005.265
152.653	774369.021	7486015.800
160.000	774373.214	7486021.832
170.000	774379.310	7486029.758
180.000	774385.837	7486037.333
200.000	774400.100	7486051.338
220.000	774415.828	7486063.675
240.000	774432.827	7486074.193
260.000	774450.888	7486082.760
280.000	774469.787	7486089.272
294.024	774483.415	7486092.569
300.000	774493.377	7486099.746
315.089	774508.881	7486097.687
320.000	774518.685	7486099.658
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380.000	774567.705	7486109.511
400.000	774587.313	7486113.453

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE



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AMENDMENTS			
ISSUE	DATE	SUBJECT	AUTHORITY
1	27/05/18	FIRST ISSUE	GK
2	1/06/18	SECOND ISSUE	GK
3	15/07/18	REVISED HWY INTERSECTION	GK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18



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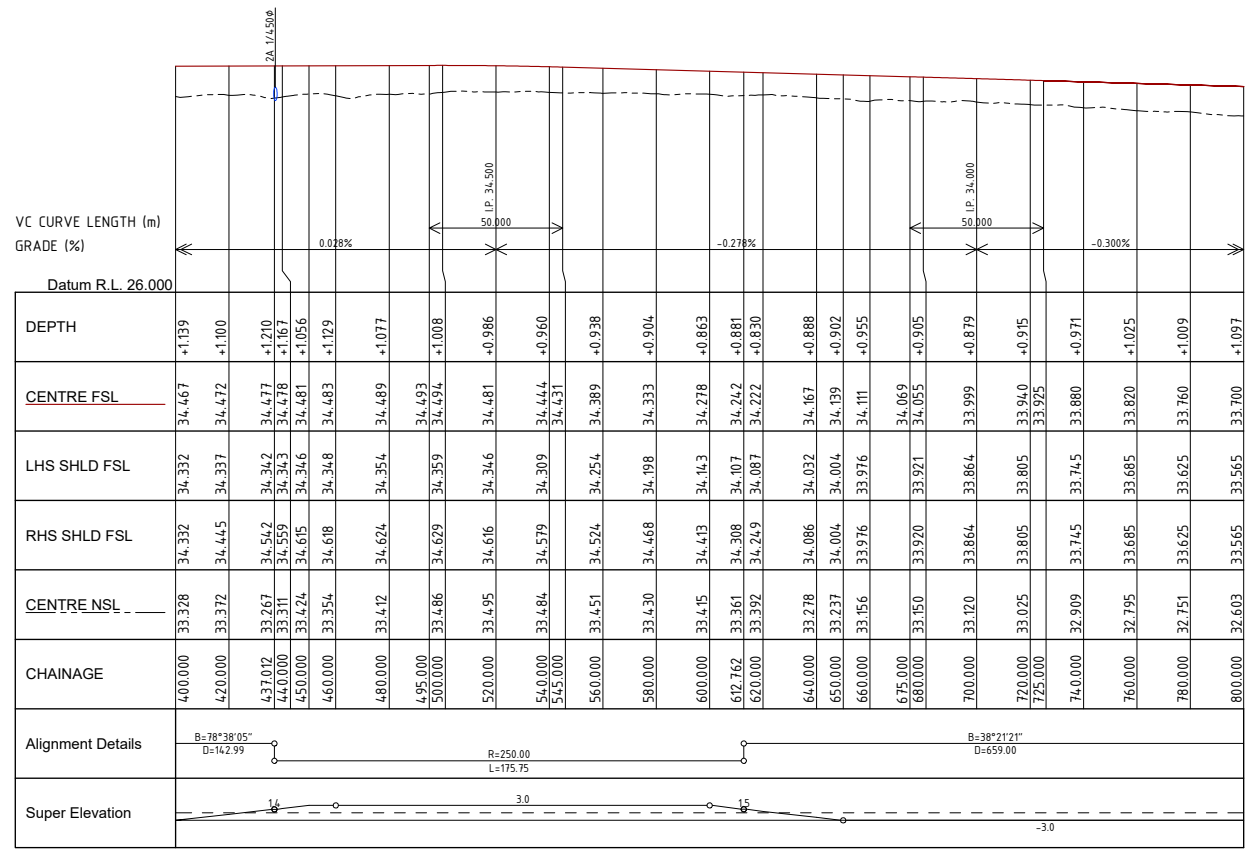
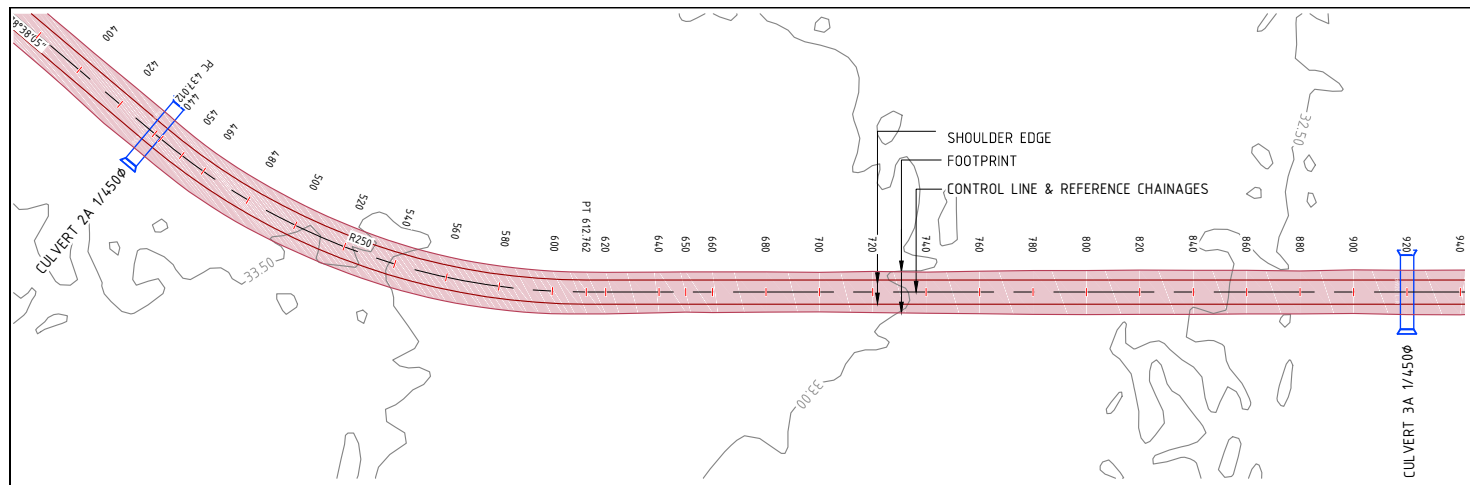
RPEQ 4321 APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
PLAN & LONGITUDINAL SECTIONS
SHEET 1 OF 4

FILL NO: G1706-02-AR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORZ 4.0 AT A3 SIZE
1:2000 VERT 4
DRAWING NUMBER: G1706-02-AR-3
ISSUE SHEET NO: 3/4

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CONTROL LINE REFERENCE CHAINAGES		
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480.000	774664.810	7486132.790
500.000	774683.145	7486140.766
520.000	774700.784	7486150.182
540.000	774717.614	7486160.977
560.000	774733.528	7486173.082
580.000	774748.423	7486186.421
600.000	774762.205	7486200.907
612.762	774770.377	7486210.708
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650.000	774793.484	7486239.909
660.000	774799.690	7486247.751
680.000	774812.100	7486263.434
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720.000	774836.922	7486294.801
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780.000	774874.155	7486341.851
800.000	774886.565	7486357.535

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE



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AMENDMENTS			
ISSUE	DATE	SUBJECT	APPROVED
1	27/05/18	FIRST ISSUE	OK
2	1/06/18	SECOND ISSUE	OK
3	15/07/18	REVISED HWY INTERSECTION	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18



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AUSTRALIAN MINING ENGINEERING CONSULTANTS
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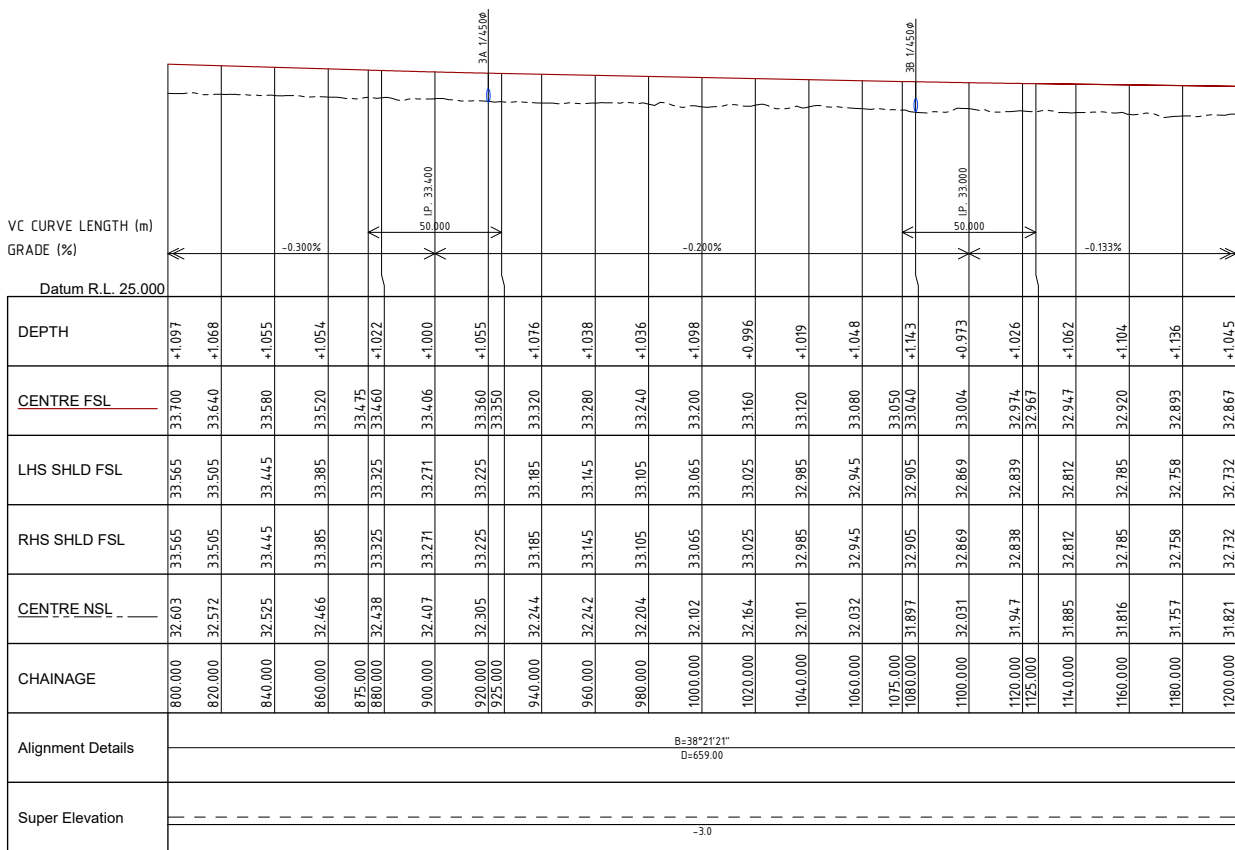
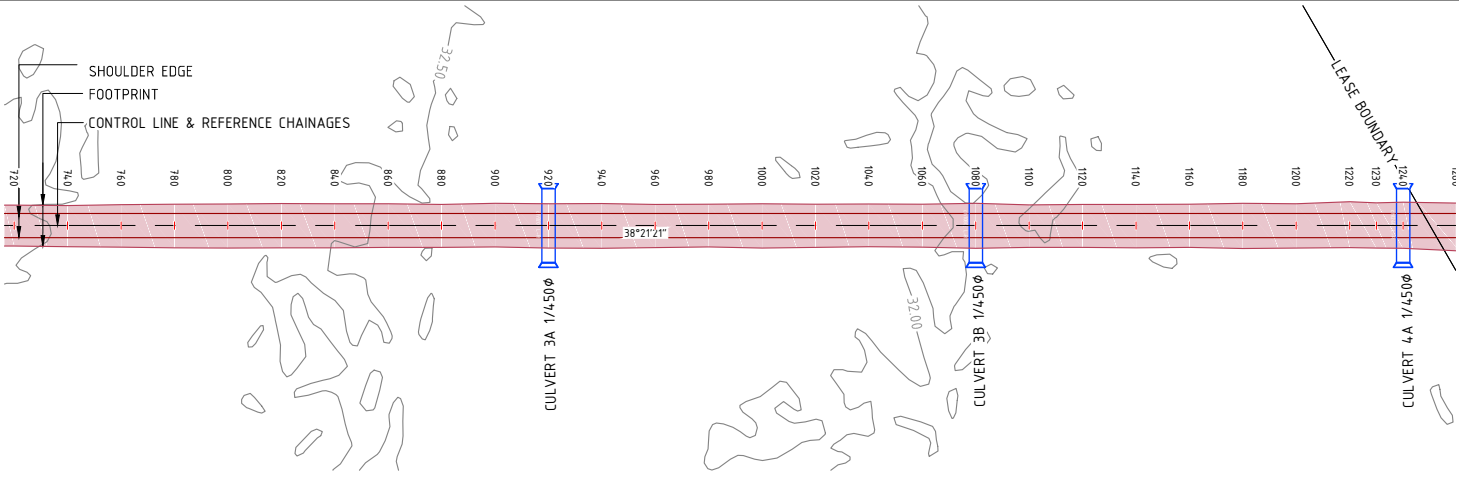
RPEQ 4321 APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
PLAN & LONGITUDINAL SECTIONS
SHEET 2 OF 4

FILL NO: G1706-02-AR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORZ 4.0 AT A3 SIZE
0 1:2000 VERT 4
DRAWING NUMBER: G1706-02-AR-4
ISSUE SHEET NO: 3 5

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920.000	774961.031	7486451.636
940.000	774973.441	7486467.319
960.000	774985.852	7486483.003
980.000	774998.263	7486498.686
1000.000	775010.674	7486514.369
1020.000	775023.085	7486530.053
1040.000	775035.496	7486545.736
1060.000	775047.907	7486561.420
1080.000	775060.317	7486577.103
1100.000	775072.728	7486592.787
1120.000	775085.139	7486608.470
1140.000	775097.550	7486624.154
1160.000	775109.961	7486639.837
1180.000	775122.372	7486655.521
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Scale Horizontal 1:2000 Vertical 1:200

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE



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AMENDMENTS			
ISSUE	DATE	SUBJECT	APPROVED
1	27/05/18	FIRST ISSUE	OK
2	1/06/18	SECOND ISSUE	OK
3	15/07/18	REVISED HWY INTERSECTION	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18



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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE: 23/07/17

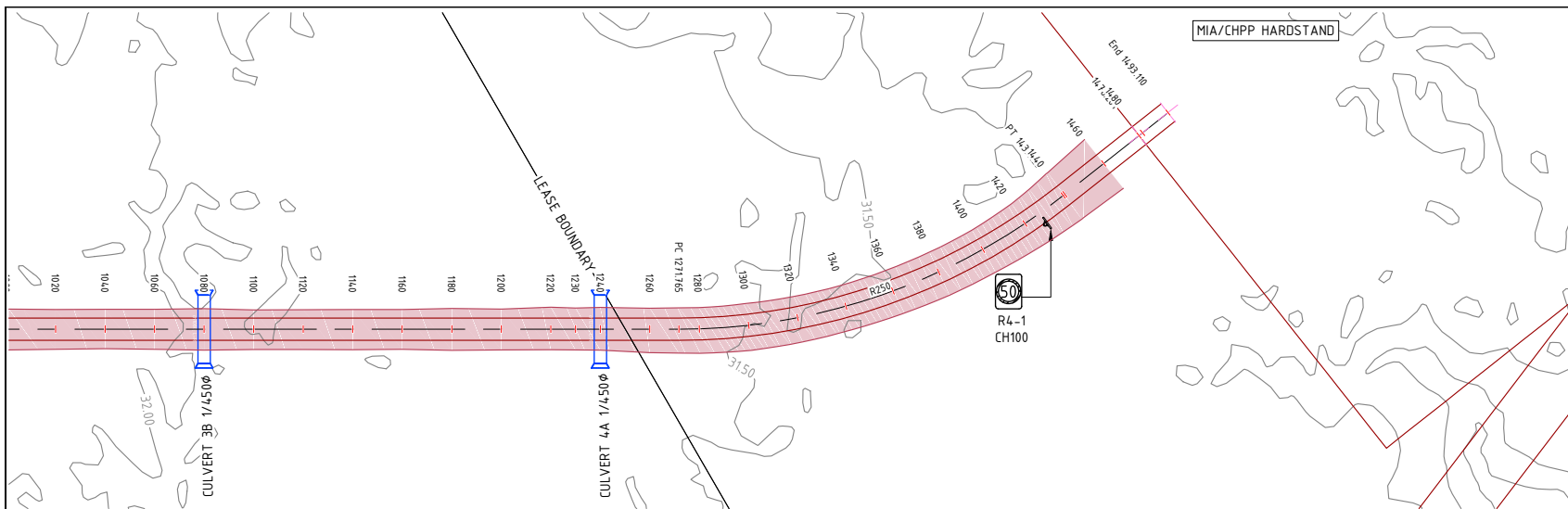
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
PLAN & LONGITUDINAL SECTIONS
SHEET 3 OF 4

FILL NO: G1706-02-AR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORIZ 4.0 AT A3 SIZE
0 1:2000 VERT 4.0

DRAWING NUMBER: G1706-02-AR-5
ISSUE: 3
SHEET NO: 6

PRINT IN COLOUR

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MIA/CHPP HARDSTAND

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55
CONTOURS 0.5m NATURAL SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	27/05/18	FIRST ISSUE
2	1/06/18	SECOND ISSUE
3	15/07/18	REVISED HWY INTERSECTION

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 05/18
DESIGN: ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 04 17187149
EMAIL: amec1@bigpond.net.au
MACKAY

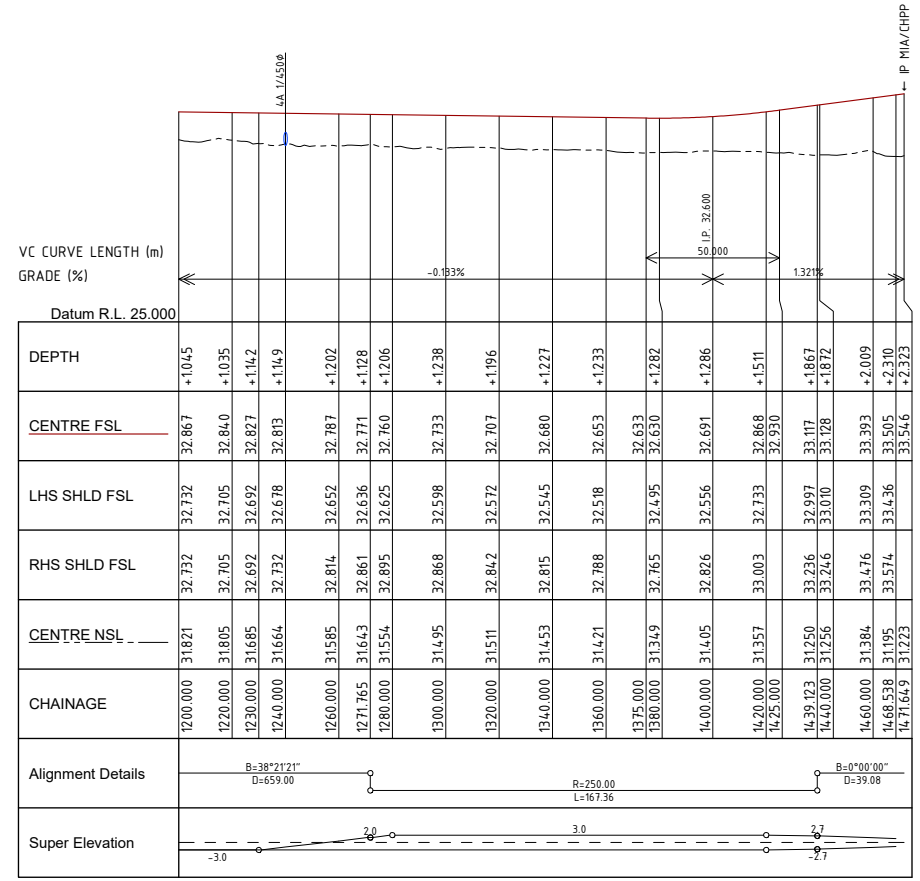
RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
PLAN & LONGITUDINAL SECTIONS
SHEET 4 OF 4

FILL NO: G1706-02-AR3.DWG
JOB NO: G1706/02

SCALE: 0 1:2000 HORZ 4.0 AT A3 SIZE
0 1:2000 VERT 4

DRAWING NUMBER: G1706-02-AR-6
ISSUE: 3
SHEET: 7

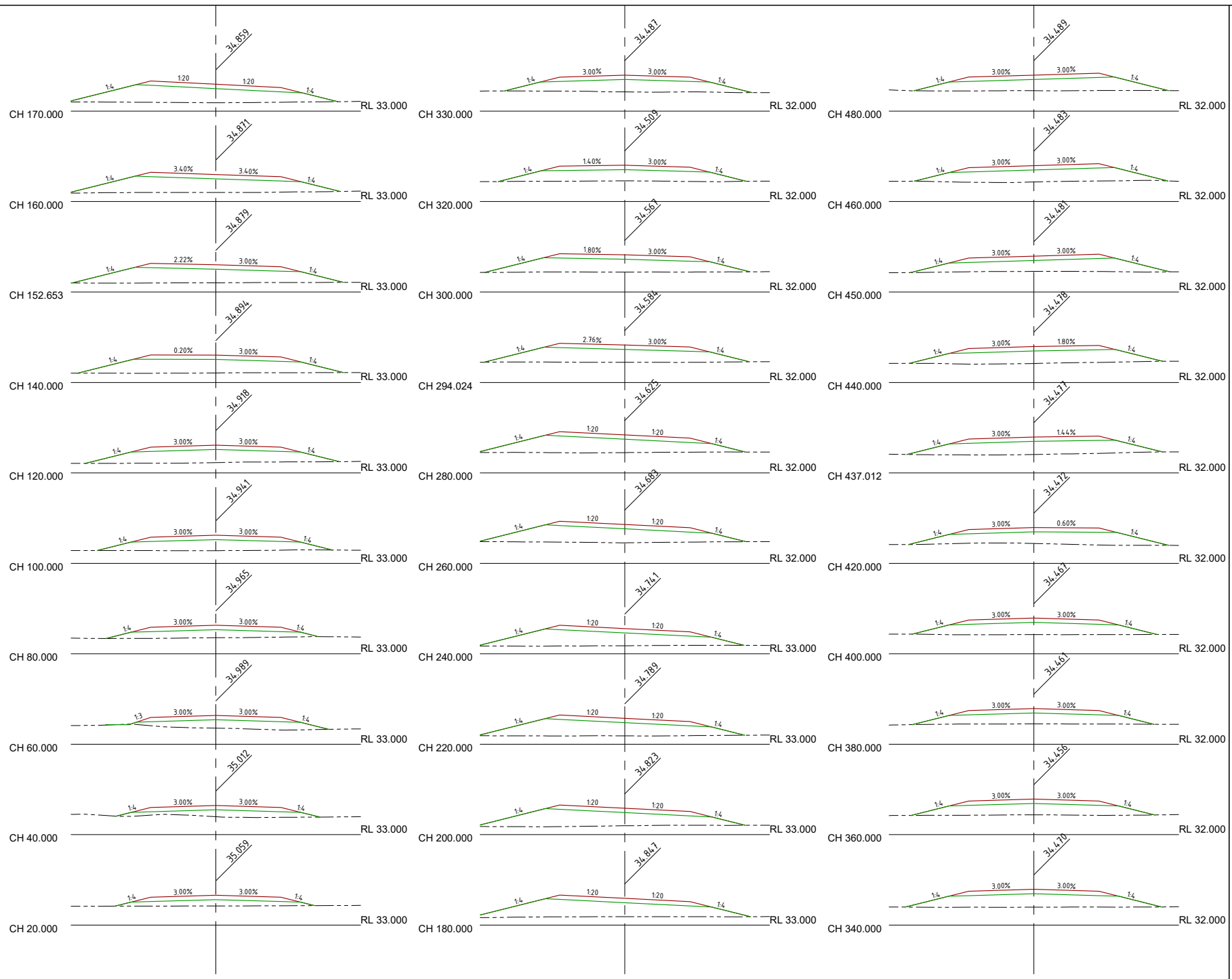


CONTROL LINE REFERENCE CHAINAGES		
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1220.000	775147.193	7486686.887
1230.000	775153.399	7486694.729
1240.000	775159.604	7486702.571
1260.000	775172.015	7486718.254
1271.765	775179.316	7486727.480
1280.000	775184.319	7486734.021
1300.000	775195.551	7486750.563
1320.000	775205.425	7486767.949
1340.000	775213.878	7486786.069
1360.000	775220.856	7486804.807
1380.000	775226.314	7486824.042
1400.000	775230.217	7486843.652
1420.000	775232.541	7486863.511
1439.123	775233.272	7486882.616
1440.000	775233.272	7486883.492
1460.000	775233.272	7486903.492
1468.538	775233.272	7486912.030

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PRINT IN COLOUR

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DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55

COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	27/05/18	FIRST ISSUE
2	1/06/18	SECOND ISSUE
3	15/07/18	REVISED HWY INTERSECTION

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18

DESIGN: ASC DATE: 05/18

AMEC
AUSTRALIAN MINING ENGINEERING CONSULTANTS

PH: 4 954 9429
MOB: 04 1718 7149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE: 23/07/17

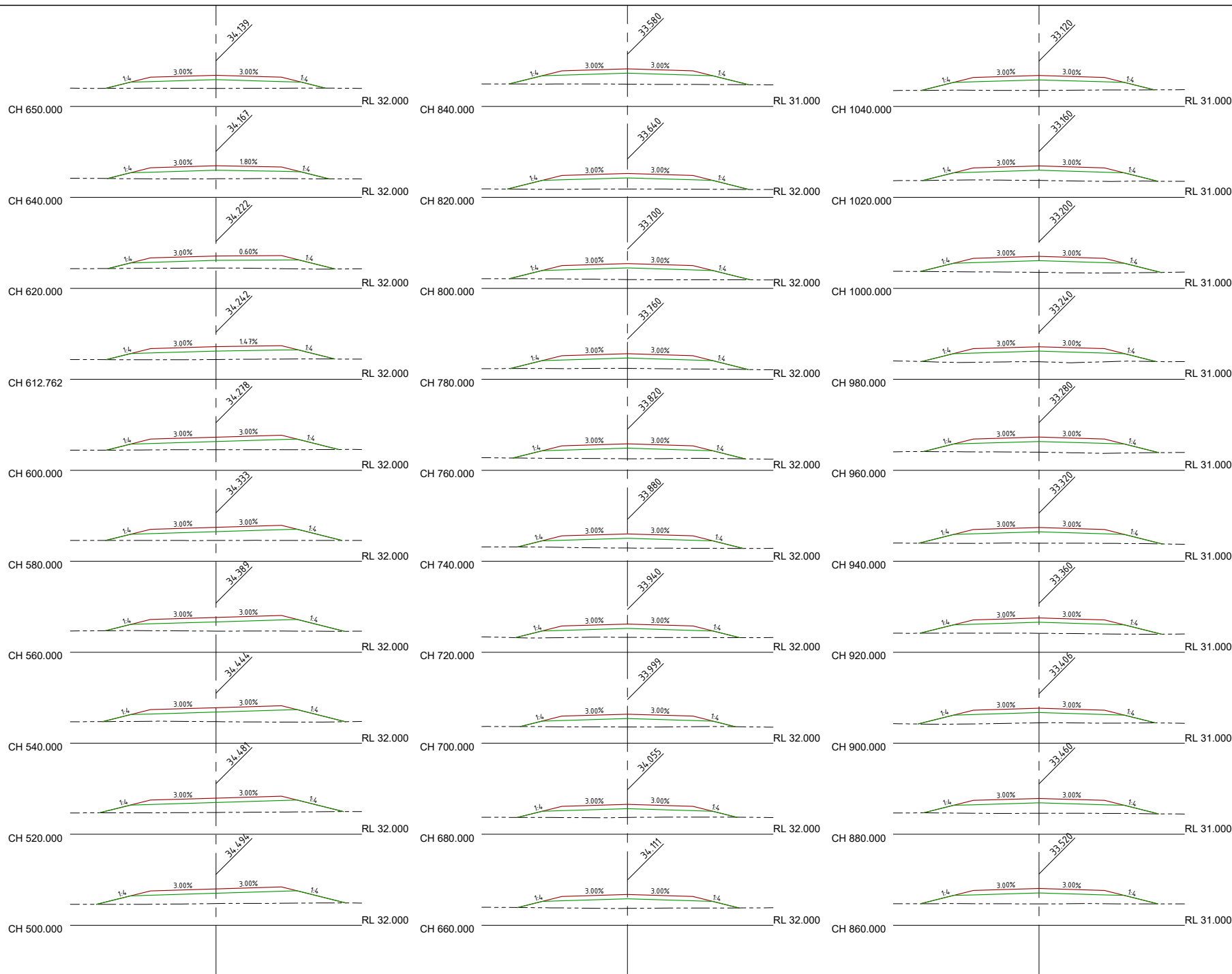
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
CROSS SECTIONS SHEET 1 OF 3

FILE NO	G1706-02-AR3.DWG
JOB NO	G1706/02
SCALE	0 1:250 HORZ. 5 AT A3 SIZE 0 1:250 VERT. 5
DRAWING NUMBER	G1706-02-AR-7
ISSUE	3
SHEET NO	8

PRINT IN COLOUR

Scale Horizontal 1:250 Vertical 1:250

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SURVEY DATUM MGA55



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AMENDMENTS

ISSUE	DATE	SUBJECT	APPROVED
1	27/05/18	FIRST ISSUE	GK
2	1/06/18	SECOND ISSUE	GK
3	15/07/18	REVISED HWY INTERSECTION	GK

XREF FILES

DRAWING NO.	TITLE

DRAWN: ASC DATE 05/18

DESIGN: ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
CROSS SECTIONS SHEET 2 OF 3

FILL NO G1706-02-AR3.DWG

JOB NO G1706/02

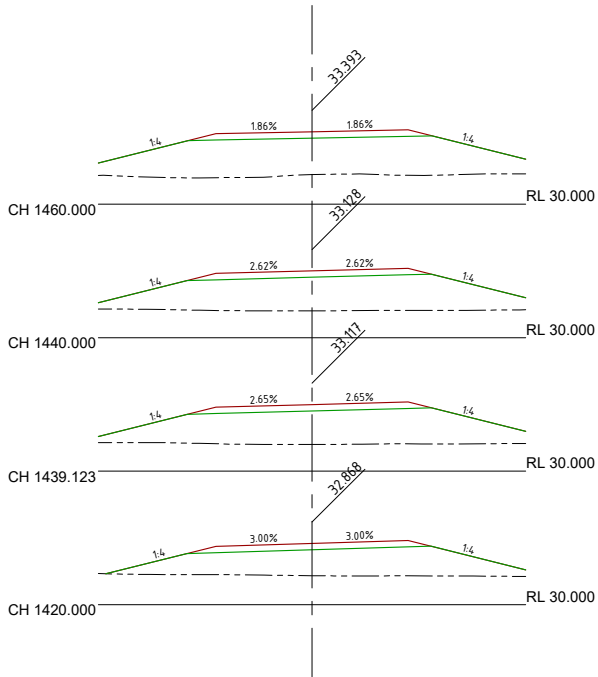
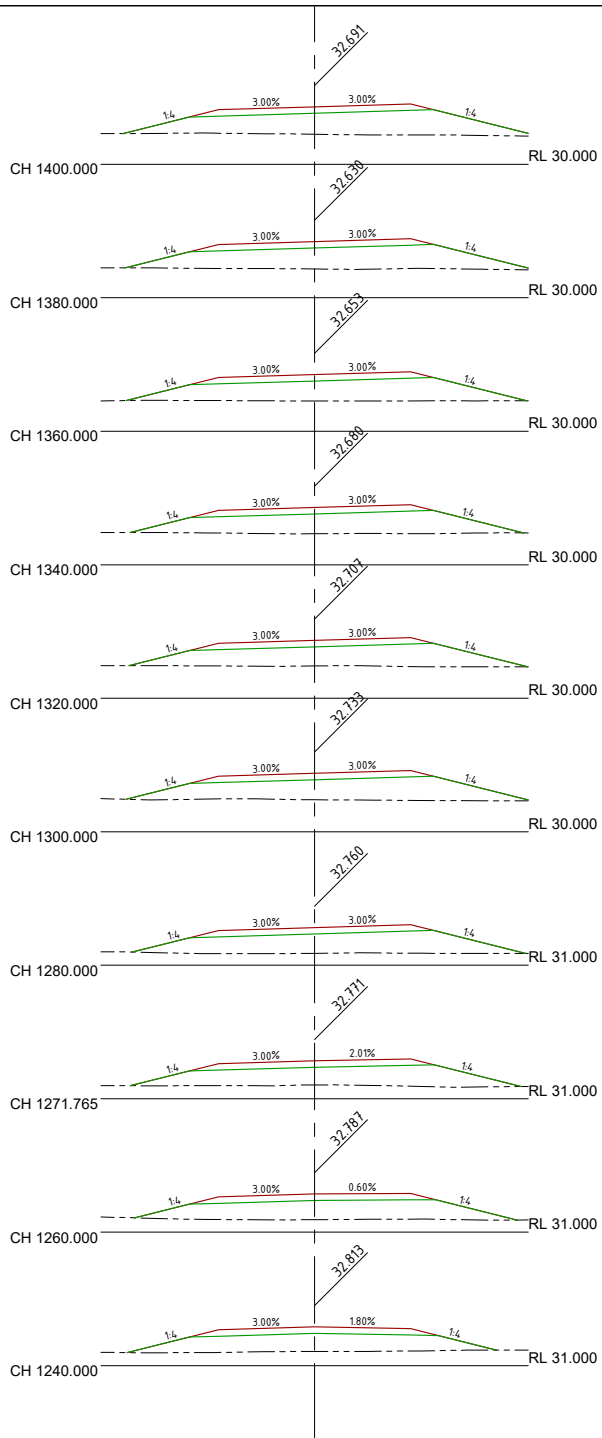
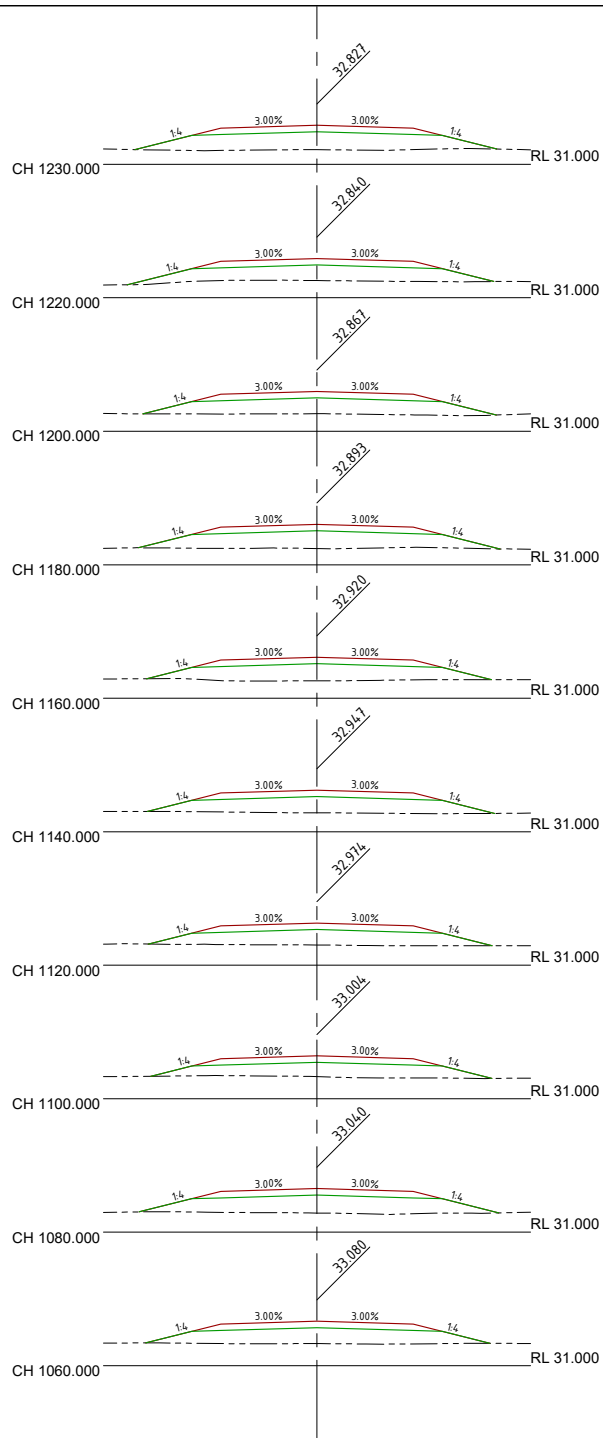
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Horizontal 1:250 Vertical 1:250

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DIMENSIONS METERS UNO

SURVEY DATUM MGA55



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ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	27/05/18	FIRST ISSUE
2	1/06/18	SECOND ISSUE
3	15/07/18	REVISED HWY INTERSECTION

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18

DESIGN: ASC DATE: 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
MINE ACCESS ROAD
CROSS SECTIONS SHEET 3 OF 3

FILL NO: G1706-02-AR3.DWG

JOB NO: G1706/02

SCALE: 0 1250 HORZ. 5 AT A3 SIZE
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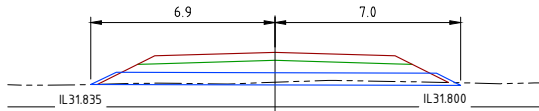
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ISSUE: 3

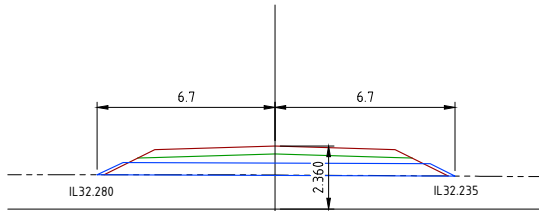
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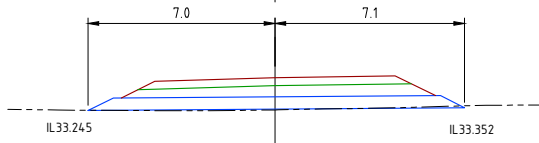
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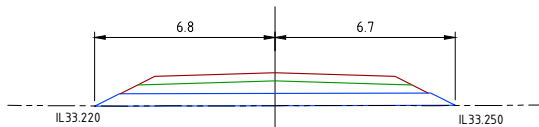
3B. CH1080 1/450 ϕ CSP CULVERT 13.9m; REFER PLAN AR2 FOR INSTALLATION DETAILS



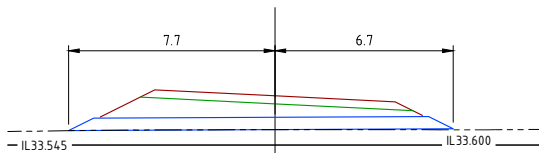
3A. CH920 1/450 ϕ CSP CULVERT 13.4m; REFER PLAN AR2 FOR INSTALLATION DETAILS



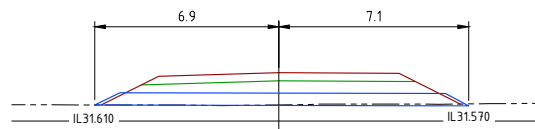
2A. CH437 1/450 ϕ CSP CULVERT 14.1m; REFER PLAN AR2 FOR INSTALLATION DETAILS



1B. CH340 5/450 ϕ CSP CULVERT 13.5m; REFER PLAN AR2 FOR INSTALLATION DETAILS



1A. CH180 1/450 ϕ CSP CULVERT 13.4m; REFER PLAN AR2 FOR INSTALLATION DETAILS



4A. CH1240 1/450 ϕ CSP CULVERT 14.0m; REFER PLAN AR2 FOR INSTALLATION DETAILS

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SURVEY DATUM MGA55



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ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	27/05/18	FIRST ISSUE
2	1/06/18	SECOND ISSUE
3	15/07/18	REVISED HWY INTERSECTION

XREF FILES	
DRAWING NO.	TITLE

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS

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MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

MINE ACCESS ROAD

CULVERT SECTIONS

PLOT NO G1706-02-AR3.DWG

JOB NO G1706/02

SCALE 0 1200 HORZ 4 AT A3 SIZE
0 1200 VERT 4

DRAWING NUMBER ISSUE SHEET NO

G1706-02-AR-10 3 11

PRINT IN COLOUR



CENTRAL QUEENSLAND COAL



DRAWING INDEX

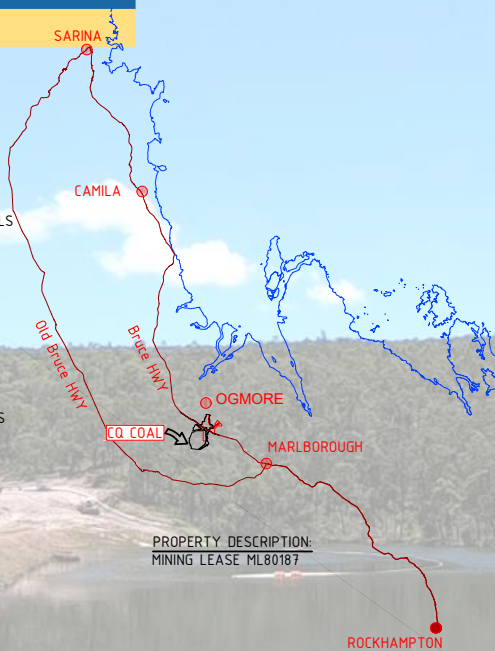
SHEET	DWG NO.	REV	DESCRIPTION
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CIVIL WORKS

1	G1706-02-GA-1	2	SITE PLAN
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CHPP/MIA - TLO HAUL ROAD

2	G1706-02-DAM-1	1	SITE PLAN & ALIGNMENT SETOUTS
3	G1706-02-DAM-2	1	EMBANKMENT LONG SECTION & TYPE CROSS SECTION DETAILS
4	G1706-02-DAM-3	1	EMBANKMENT CROSS SECTIONS CH10 - CH60
5	G1706-02-DAM-4	1	EMBANKMENT CROSS SECTIONS CH70 - CH120
6	G1706-02-DAM-5	1	EMBANKMENT CROSS SECTIONS CH130 - CH200
7	G1706-02-DAM-6	1	EMBANKMENT CROSS SECTIONS CH210 - CH280
8	G1706-02-DAM-7	1	EMBANKMENT CROSS SECTIONS BATTER INTERCEPT SETOUTS
9	G1706-02-DAM-8	1	SPILLWAY LONG SECTION & TYPE CROSS SECTION DETAILS
10	G1706-02-DAM-9	1	SPILLWAY CROSS SECTIONS CH10 - CH100
11	G1706-02-DAM-9	1	SPILLWAY CROSS SECTIONS CH110 - CH180



IMPORTANT NOTICE

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES UNLESS DIRECTED OTHERWISE. SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM <http://www.cmdg.com.au/>.
2. THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
3. THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
4. AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
5. THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
6. SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS.

EXISTING LEVELS AND SERVICES

1. NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
2. THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
3. PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

ENVIRONMENTAL MANAGEMENT

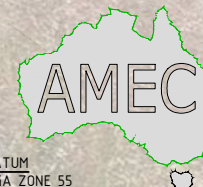
1. THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
2. THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
3. THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
4. ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
5. ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

1. UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES (CMDG) STANDARD DRAWINGS OR TRANSPORT MAIN ROADS (TMR) STANDARD DRAWINGS.



DAM #1 JOB NO. G1706/02



DATUM
MGA ZONE 55
AUSTRALIAN MINING ENGINEERING
CONSULTANTS

INDEX DRAWINGS

G1706-02-DAM-0

FIRST ISSUE 180815

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776150.000mE

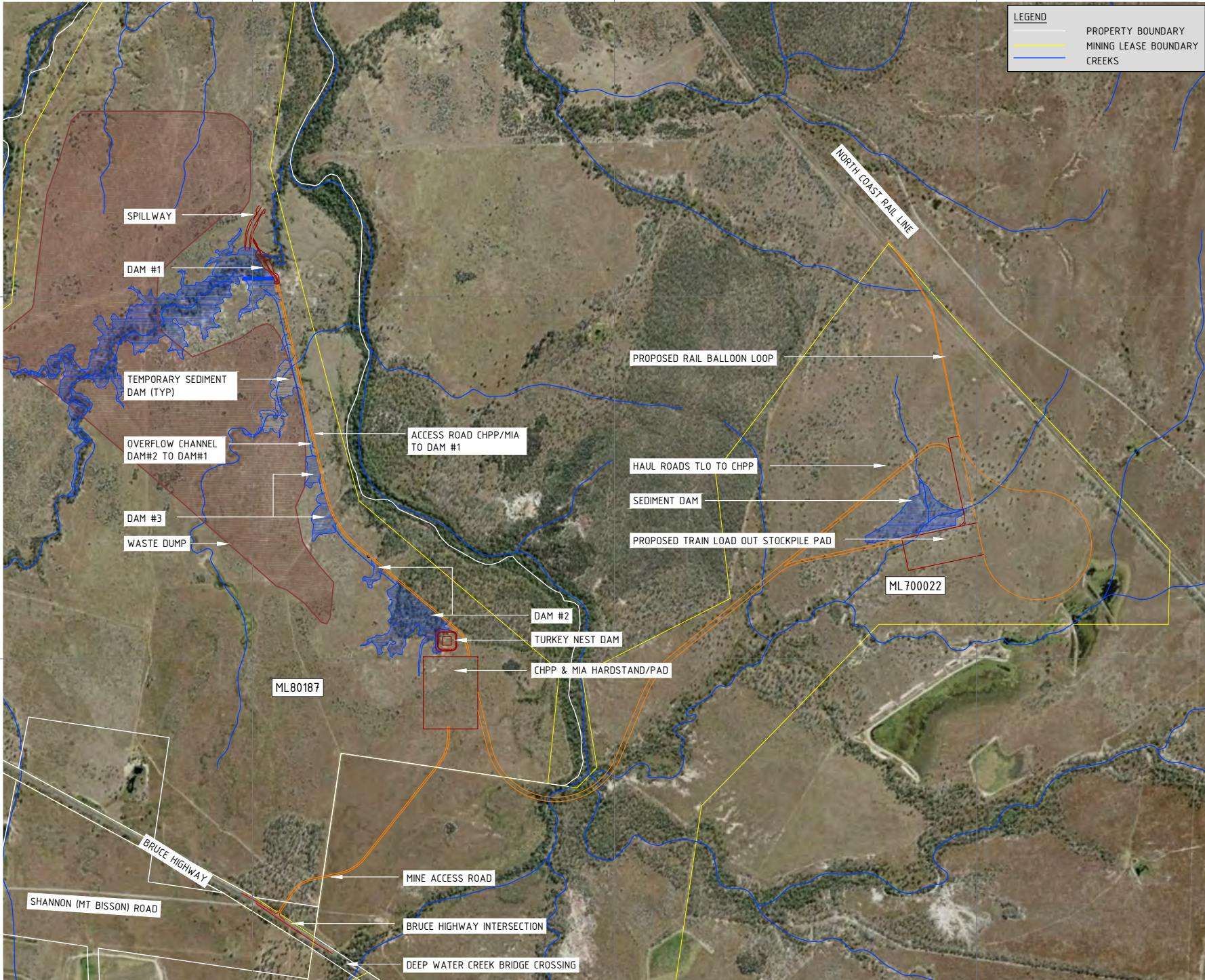
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LEGEND

- PROPERTY BOUNDARY
- MINING LEASE BOUNDARY
- CREEKS

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SURVEY DATUM MGA55



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 CONSULTING ENGINEERS
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 email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 SITE PLAN

TITLE NO: G1706-02-GA1.DWG
 JOB NO: G1706/02

SCALE: 0 120000 HORIZ. 400 A3 SIZE

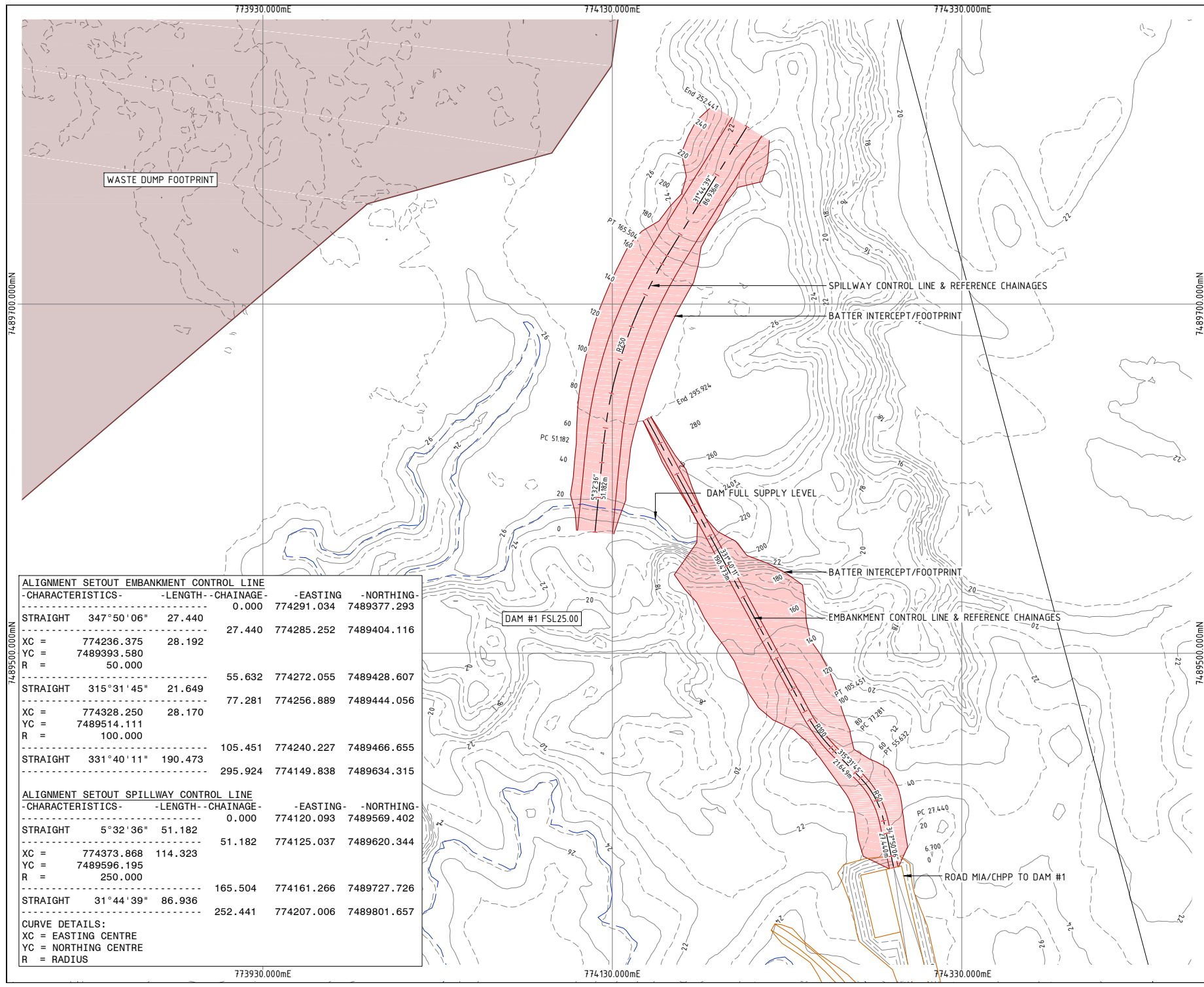
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ALIGNMENT SETOUT EMBANKMENT CONTROL LINE				
-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING	-NORTHING-
STRAIGHT	347°50'06"	27.440	774291.034	7489377.293
		27.440	774285.252	7489404.116
XC =	774236.375	28.192		
YC =	7489393.580			
R =	50.000			
		55.632	774272.055	7489428.607
STRAIGHT	315°31'45"	21.649	77.281	774256.889
		77.281	774256.889	7489444.056
XC =	774328.250	28.170		
YC =	7489514.111			
R =	100.000			
		105.451	774240.227	7489466.655
STRAIGHT	331°40'11"	190.473	295.924	774149.838
		295.924	774149.838	7489634.315
ALIGNMENT SETOUT SPILLWAY CONTROL LINE				
-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING	-NORTHING-
STRAIGHT	5°32'36"	51.182	774120.093	7489569.402
		51.182	774125.037	7489620.344
XC =	774373.868	114.323		
YC =	7489596.195			
R =	250.000			
		165.504	774161.266	7489727.726
STRAIGHT	31°44'39"	86.936	252.441	774207.006
		252.441	774207.006	7489801.657
CURVE DETAILS:				
XC =	EASTING CENTRE			
YC =	NORTHING CENTRE			
R =	RADIUS			

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55
CONTOURS 1.0m NATURAL SURFACE

COX ANDREWS
ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE DATE	SUBJECT	INITIALS
13/08/18	FIRST ISSUE	GR

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

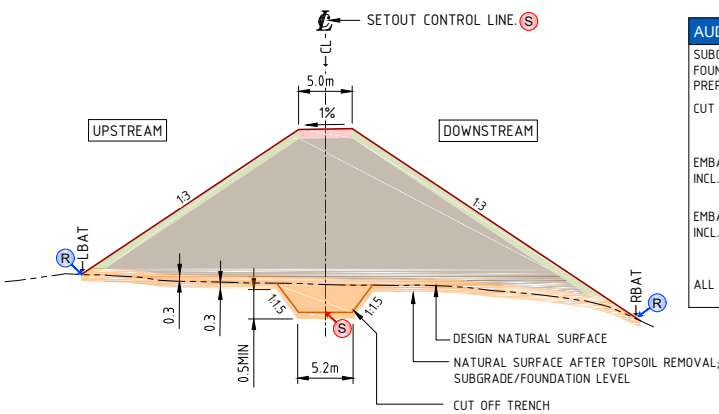
RPEQ 4321 APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
SITE PLAN & ALIGNMENT SETOUTS

TITLE NO: G1706-02-DAM1.DWG
JOB NO: G1706/02
SCALE: 0 1:10000 HORZ. 200 A3 SIZE
DRAWING NUMBER: G1706-02-DAM-1 ISSUE SHEET NO: 1 2

PRINT IN COLOUR

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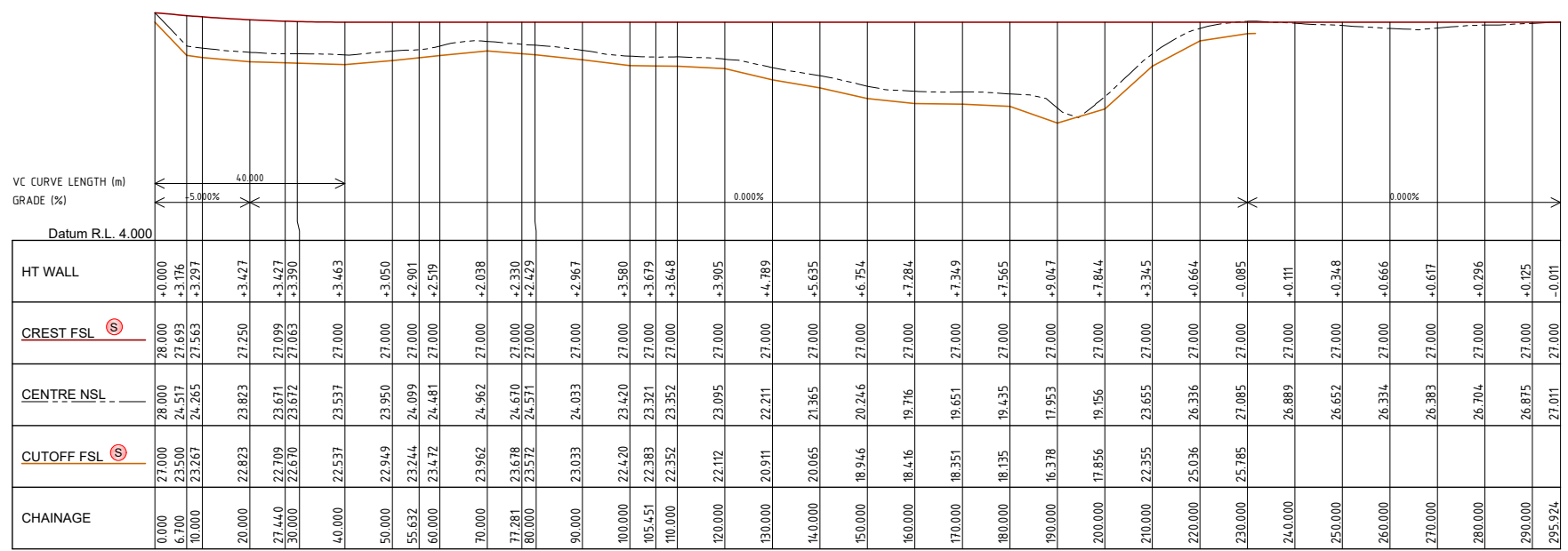


TYPE CROSS SECTION DAM EMBANKMENT
NTS

CONTROL LINE CHAINAGE	SETOUTS EASTING	NORTHING
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6.700	774289.623	7489389.842
10.000	774288.927	7489387.068
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27.440	774285.252	7489404.116
30.000	774284.649	7489406.604
40.000	774281.099	7489415.935
50.000	774275.766	7489424.375
55.632	774272.055	7489428.607
60.000	774268.995	7489431.724
70.000	774261.990	7489438.861
77.281	774256.889	7489444.056
80.000	774255.011	7489446.022
90.000	774248.579	7489453.674
100.000	774242.944	7489461.930
105.451	774240.227	7489466.655
110.000	774238.069	7489470.659
120.000	774233.323	7489479.462
130.000	774228.578	7489488.264
140.000	774223.832	7489497.066
150.000	774219.086	7489505.868
160.000	774214.341	7489514.671
170.000	774209.595	7489523.473
180.000	774204.850	7489532.275
190.000	774200.104	7489541.077
200.000	774195.359	7489549.880
210.000	774190.613	7489558.682
220.000	774185.868	7489567.484
230.000	774181.122	7489576.287
240.000	774176.377	7489585.089
250.000	774171.631	7489593.891
260.000	774166.886	7489602.693
270.000	774162.140	7489611.496
280.000	774157.395	7489620.298
290.000	774152.649	7489629.100
295.924	774149.898	7489634.315

AUDIT TESTING SCHEDULE DAM EMBANKMENT		
SUBGRADE/ FOUNDATION PREPARATION	FIELD DENSITY (AUSTRALIAN STANDARD)	FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED
CUT OFF TRENCH	FIELD DENSITY (AUSTRALIAN STANDARD)	FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED
EMBANKMENT MATERIAL INCL. CUT OFF TRENCH	FIELD DENSITY (AUSTRALIAN STANDARD)	FOR EACH MATERIAL ZONE 2 & 3 FOUR (4) TEST ONE EACH SIDE, MINIMUM OF 100% STANDARD COMPACTION REQUIRED.
EMBANKMENT MATERIAL INCL. CUT OFF TRENCH	QUALITY	FOR EACH MATERIAL ZONE 2 & 3 FOUR (4) TEST ONE EACH SIDE, IE GRADING, ATTERBERGS INCL. SHRINKAGE & EMMERSON CLASS DISPERSION.
ALL TEST LOCATIONS TO BE RECORDED WITH GPS CO-ORDINATES		

TYPE CROSS NOTES	
1. ZONE 1	GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4. OUTER FACE TO BE WHEEL ROLLED & FINAL TRIMMED; LIGHTLY SCARIFY THEN APPLY 100mm TOPSOIL.
2. ZONE 2	GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
3. ZONE 3	FOUNDATION AREA. REMOVE MIN 150mm-300mm EXIST TOPSOIL. COMPACT FOUNDATION. EXCAVATE CUT OFF WALL. GOOD QUALITY, NON-DISPERSIVE, IMPERVIOUS WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; MIN 20% PASSING 75µm; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
4. ZONE 5	ROAD PAVEMENT. 150mm FRESH PERMIAN SNADSTONE SPOIL.
5.	RE-VEGETATION OF CREST & BATTERS TO BE ADVISED BY PRINCIPAL.
COMPACTION STANDARD 100% STANDARD (AS1289) AT OMC ±2%	



Scale Horizontal 1:1000 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55



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AMENDMENTS		
ISSUE DATE	SUBJECT	APPROVED BY
13/08/18	FIRST ISSUE	OK

XREF FILES
DRAWING NO: TITLE

DRAWN: ASC DATE 05/18
DESIGN: ASC DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT LONG SECTION & TYPE CROSS SECTION DETAILS

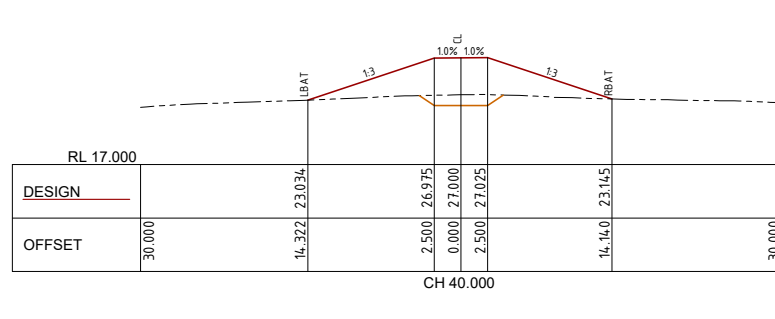
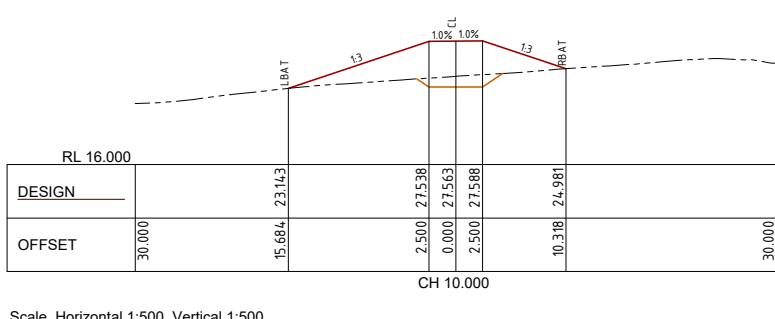
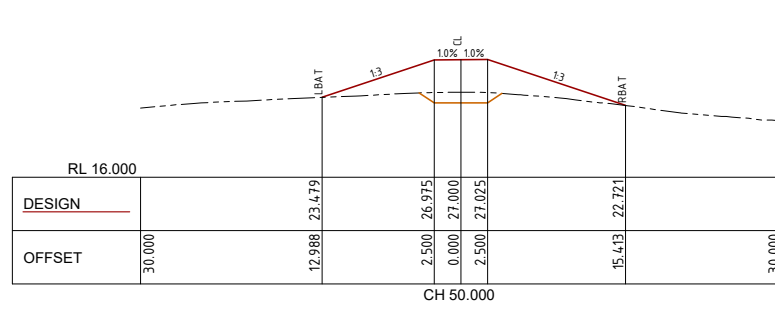
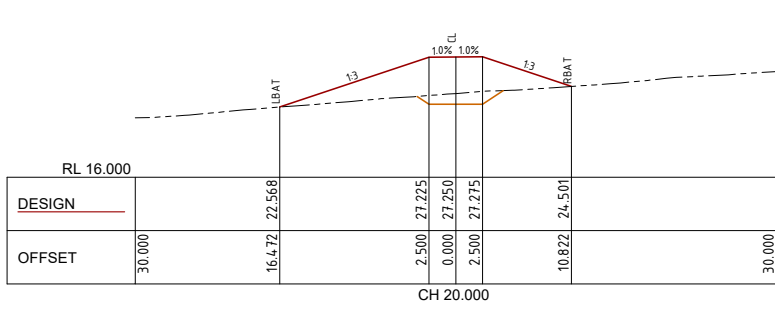
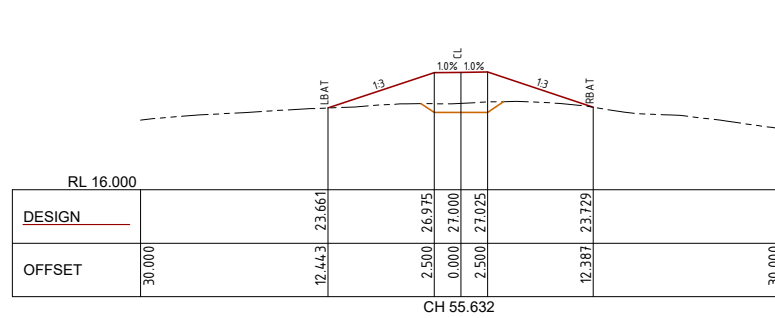
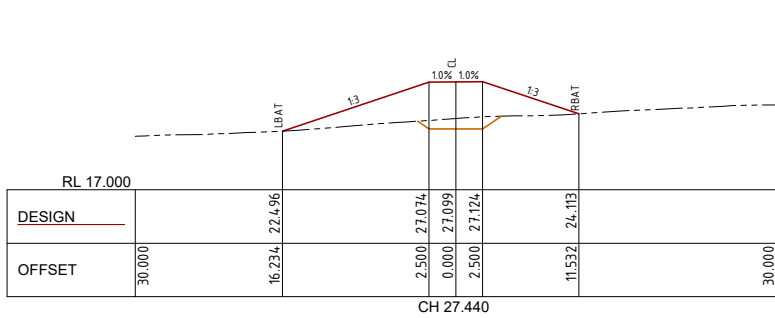
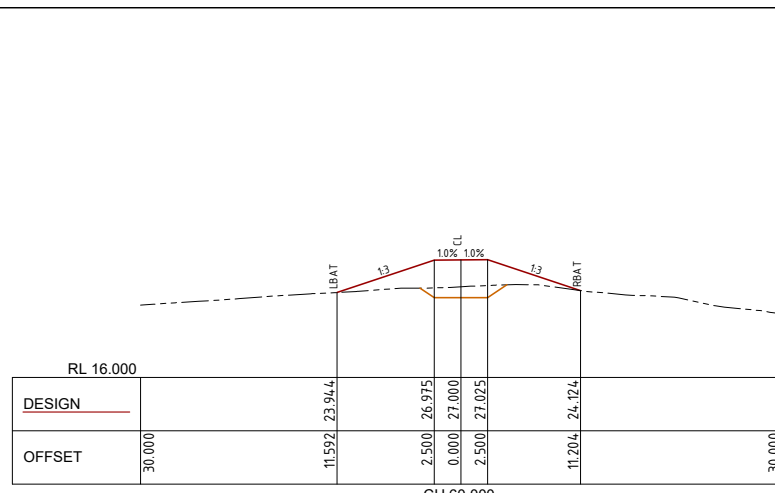
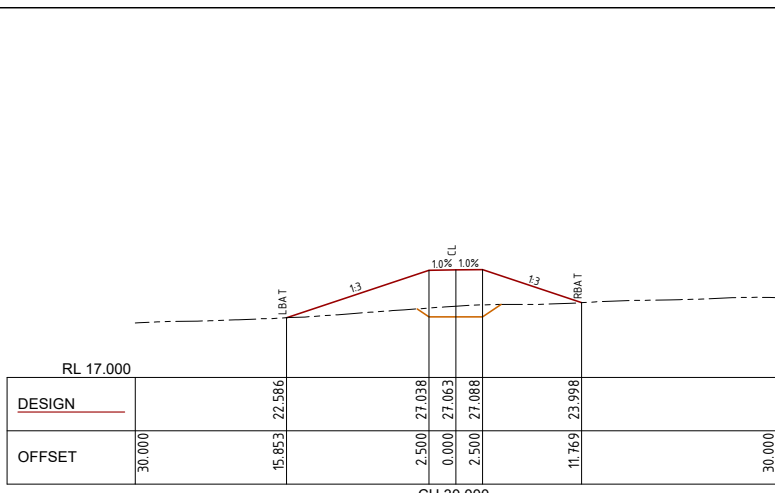
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JOB NO: G1706/02

SCALE: 0 1:1000 HORIZ. 20 AT 1:500 VERT. 10 A3 SIZE

DRAWING NUMBER: G1706-02-DAM-2
ISSUE SHEET NO: 13

PRINT IN COLOUR

E:\Jobs Current\Slyx (G1706-02)\ACADIProduction\G1706-02-DAM2 (Embankment Type XSec & Sections).dwg - DAM3-4 - 15/08/2018 10:50:42 AM



Scale Horizontal 1:500 Vertical 1:500

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DIMENSIONS METERS UNO

SURVEY DATUM MGA55

COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	13/08/18	FIRST ISSUE

XREF FILES	TITLE

DRAWN: ASC DATE 05/18
DESIGN: ASC DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT CROSS SECTIONS
CH10 - CH60

FILE NO: G1706-02-DAM2.DWG
JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 A1 A3 SIZE
0 1500 VERT 10

DRAWING NUMBER: G1706-02-DAM-3
ISSUE SHEET NO: 1 4

PRINT IN COLOUR

E:\Jobs Current\Systx (G1706-02)\ACADIProduction\G1706-02-DAM2 (Embankment Type XSec & Sections).dwg - DAM4-5_15/08/2018 10:50:42 AM

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DIMENSIONS METERS UNO

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DRAWING NO.	TITLE

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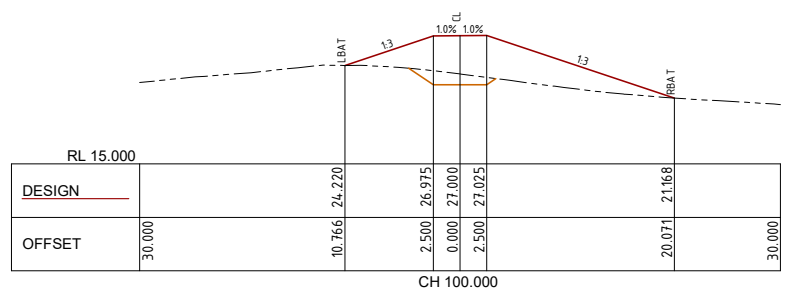
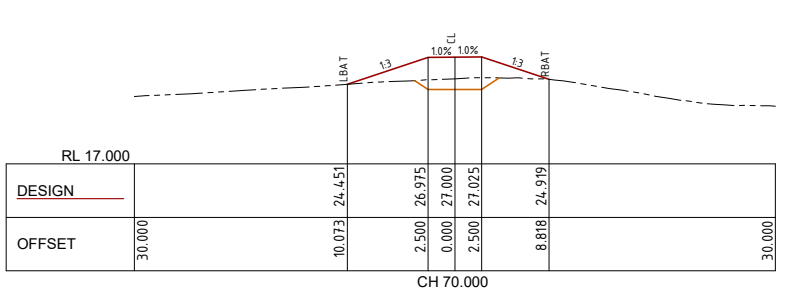
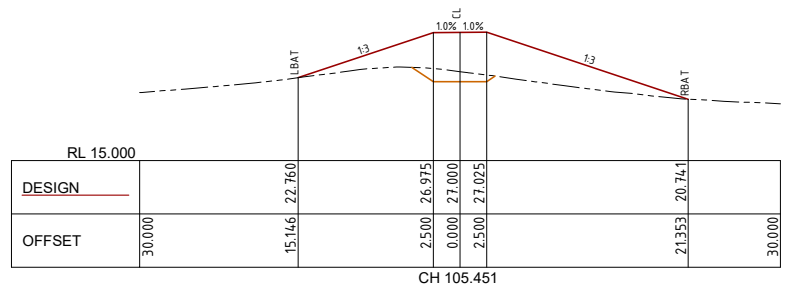
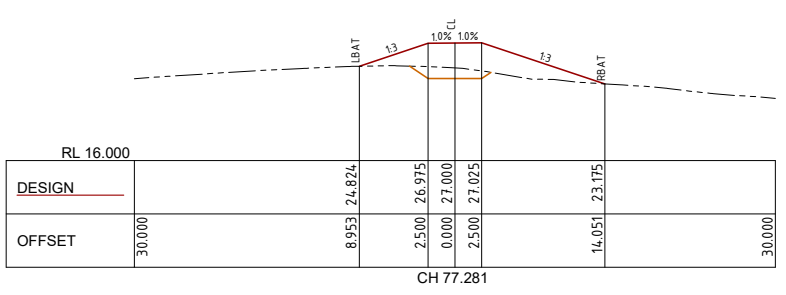
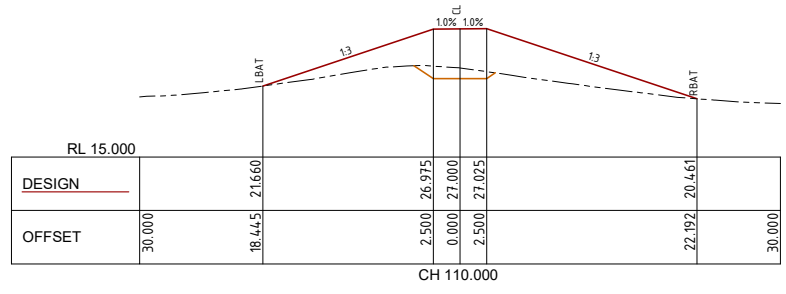
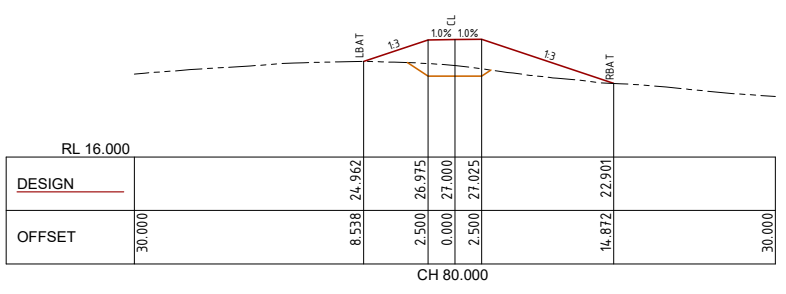
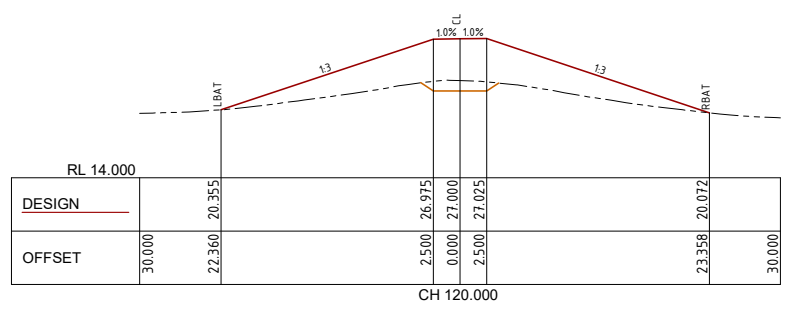
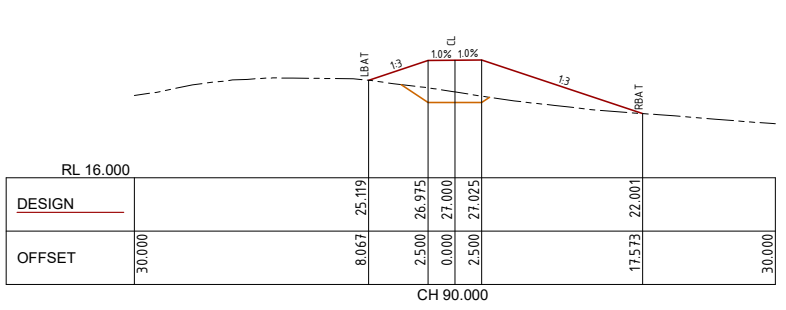
RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT CROSS SECTIONS
CH70 - CH120

FILL NO: G1706-02-DAM2.DWG
JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 A1
0 1500 VERT 10 A3 SIZE

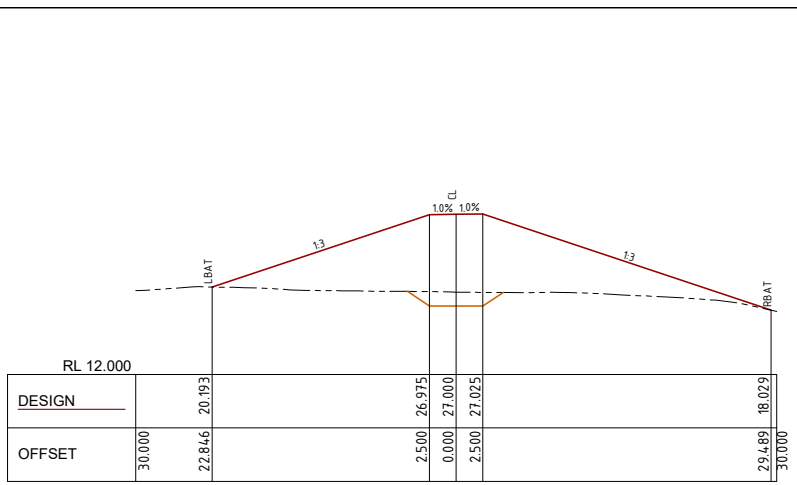
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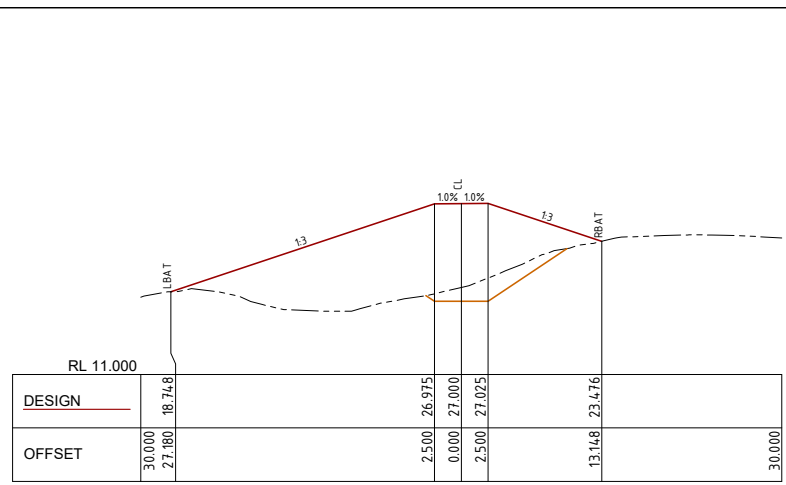
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PRINT IN COLOUR

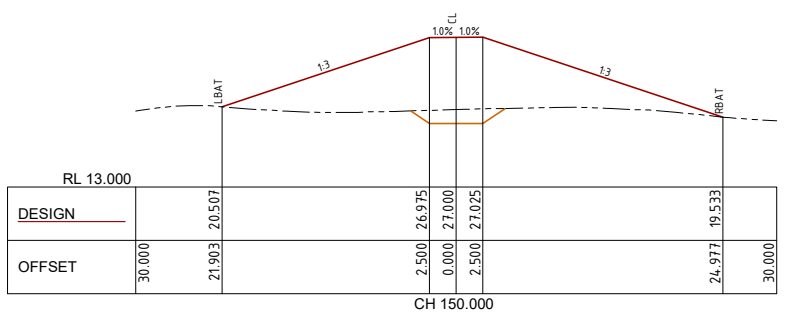
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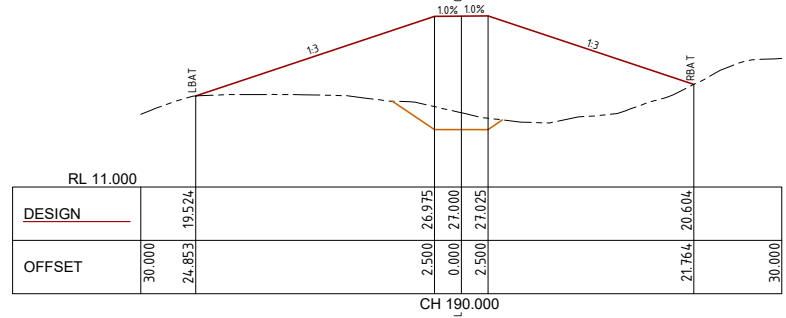
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30.000	



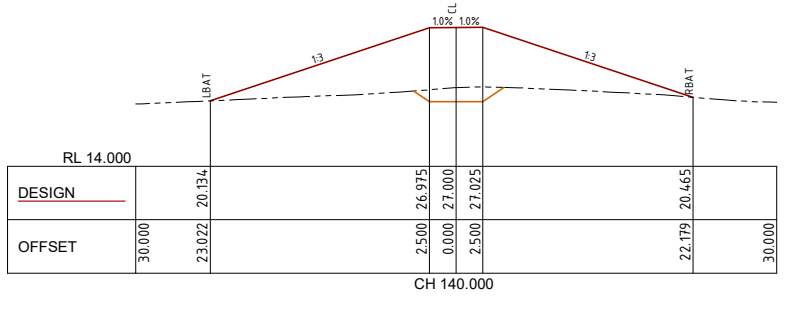
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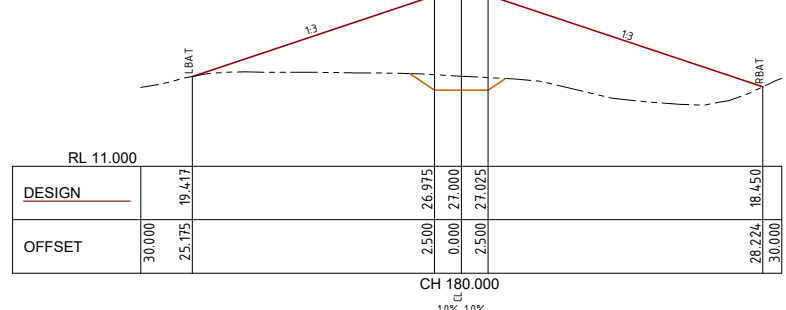
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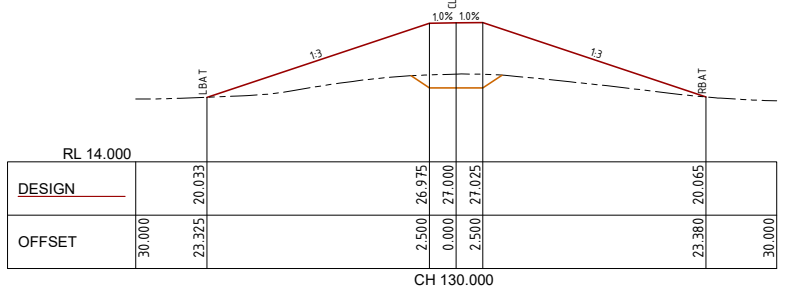
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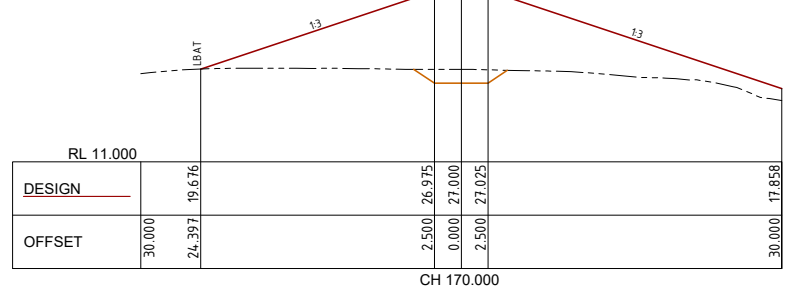
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30.000	



RL 11.000	
DESIGN	
OFFSET	
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2.500	26.975
0.000	27.000
2.500	27.025
28.224	18.450
30.000	



RL 14.000	
DESIGN	
OFFSET	
30.000	23.325
2.500	26.975
0.000	27.000
2.500	27.025
23.380	20.065
30.000	



RL 11.000	
DESIGN	
OFFSET	
30.000	24.397
2.500	26.975
0.000	27.000
2.500	27.025
30.000	17.858

Scale Horizontal 1:500 Vertical 1:500

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SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORIZED
1 13/08/18	FIRST ISSUE	AK

XREF FILES	
DRAWING NO.	TITLE

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE 23/07/17

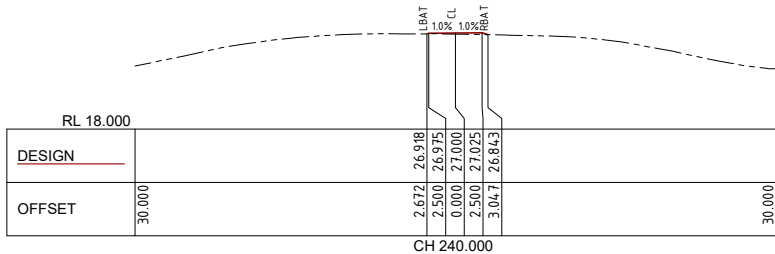
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT CROSS SECTIONS
CH130 - CH200

FIL NO G1706-02-DAM2.DWG
JOB NO G1706/02

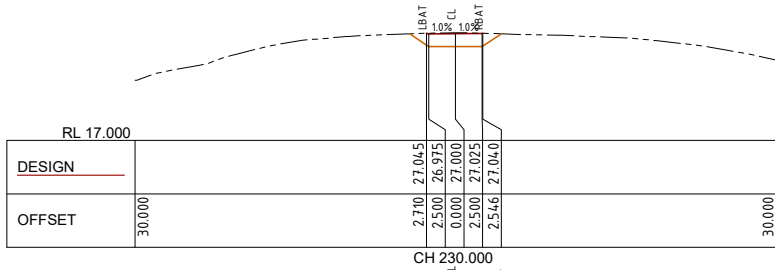
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0 1500 VERT 10 A3 SIZE

DRAWING NUMBER G1706-02-DAM-5
ISSUE SHEET NO 1 6

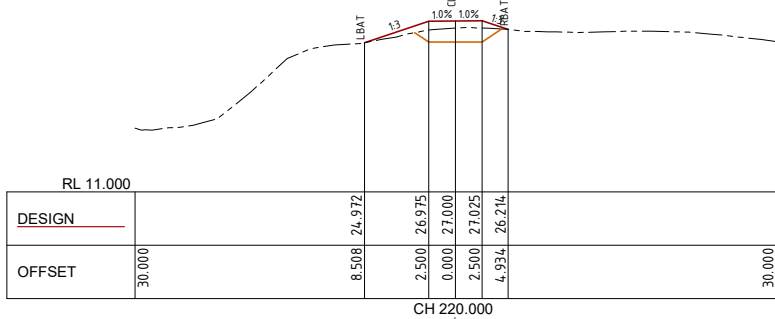
PRINT IN COLOUR



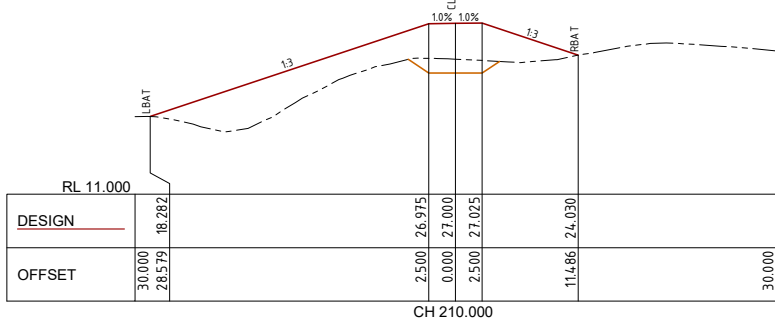
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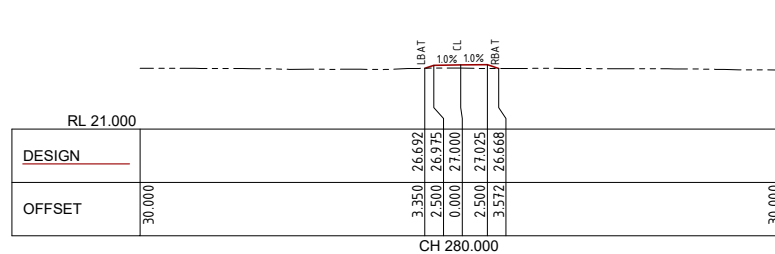
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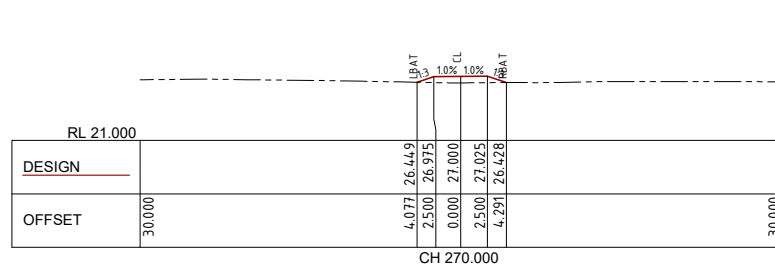
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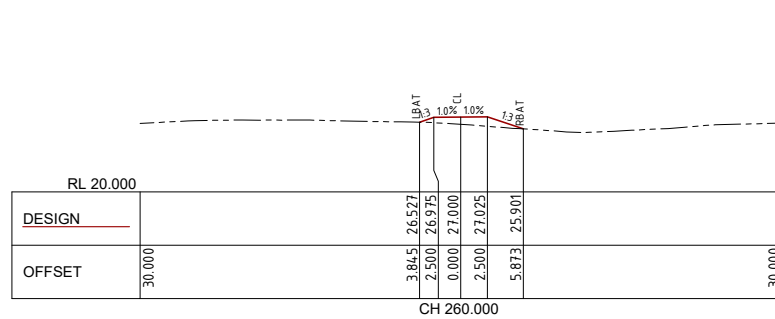
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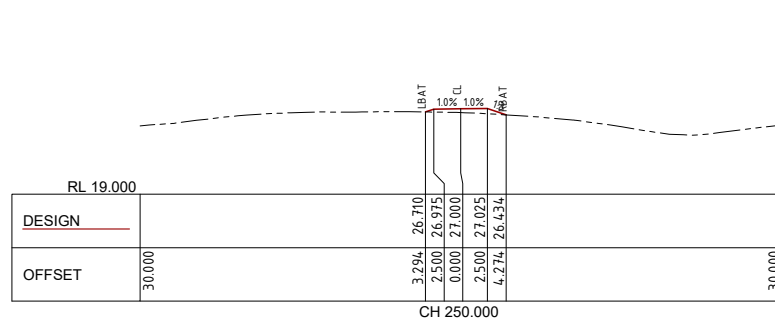
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DESIGN		26.449	26.975	27.000	27.025	26.428
OFFSET	30.000	4.077	2.500	0.000	2.500	4.291



DESIGN		26.527	26.975	27.000	27.025	25.901
OFFSET	30.000	3.845	2.500	0.000	2.500	5.873



DESIGN		26.710	26.975	27.000	27.025	26.434
OFFSET	30.000	3.294	2.500	0.000	2.500	4.274

Scale Horizontal 1:500 Vertical 1:500

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COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
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AMENDMENTS		
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AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT CROSS SECTIONS
CH210 - CH280

FIL NO: G1706-02-DAM2.DWG
JOB NO: G1706/02

SCALE: 0 1500 HORIZ 10 A1
0 1500 VERT 10 A3 SIZE

DRAWING NUMBER: G1706-02-DAM-6
ISSUE SHEET NO: 17

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E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-DAM2 (Embankment Type X-sec & Sections).dwg, DAM7-8, 15/08/2018 10:50:45 AM

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0.000	0.000	774291.034	7489377.293	CL	210.000	0.000	774190.613	7489558.682	CL
0.000	2.829	774293.800	7489377.889	RBAT	210.000	11.486	774200.723	7489564.133	RBAT
6.700	-12.706	774277.201	7489381.165	LBAT	220.000	-8.508	774178.379	7489563.447	LBAT
6.700	0.000	774289.623	7489383.842	CL	220.000	0.000	774185.868	7489567.484	CL
6.700	10.150	774299.544	7489385.981	RBAT	220.000	4.934	774190.211	7489569.826	RBAT
10.000	-15.684	774273.595	7489383.763	LBAT	230.000	-2.710	774178.737	7489575.001	LBAT
10.000	0.000	774288.927	7489387.068	CL	230.000	0.000	774181.122	7489576.287	CL
10.000	10.318	774299.014	7489389.243	RBAT	230.000	2.546	774183.364	7489577.495	RBAT
20.000	-16.472	774270.718	7489393.373	LBAT	240.000	-2.672	774174.025	7489583.821	LBAT
20.000	0.000	774286.820	7489396.844	CL	240.000	0.000	774176.377	7489585.089	CL
20.000	10.822	774297.399	7489399.124	RBAT	240.000	3.047	774179.059	7489586.535	RBAT
27.440	-16.234	774269.383	7489400.695	LBAT	250.000	-3.294	774168.732	7489592.328	LBAT
27.440	0.000	774285.252	7489404.116	CL	250.000	0.000	774171.631	7489593.891	CL
27.440	11.532	774296.526	7489406.547	RBAT	250.000	4.274	774175.394	7489595.919	RBAT
30.000	-15.853	774269.343	7489402.475	LBAT	260.000	-3.845	774163.502	7489600.869	LBAT
30.000	0.000	774284.649	7489406.604	CL	260.000	0.000	774166.886	7489602.693	CL
30.000	11.769	774296.012	7489409.670	RBAT	260.000	5.873	774172.055	7489605.481	RBAT
40.000	-14.322	774268.288	7489409.532	LBAT	270.000	-4.077	774158.551	7489609.561	LBAT
40.000	0.000	774281.099	7489415.935	CL	270.000	0.000	774162.140	7489611.496	CL
40.000	14.140	774293.747	7489422.257	RBAT	270.000	4.291	774165.917	7489613.532	RBAT
50.000	-12.988	774265.534	7489416.376	LBAT	280.000	-3.350	774154.446	7489618.708	LBAT
50.000	0.000	774275.766	7489424.375	CL	280.000	0.000	774157.395	7489620.298	CL
50.000	15.413	774287.909	7489433.868	RBAT	280.000	3.572	774160.539	7489621.993	RBAT
55.632	-12.443	774263.176	7489419.890	LBAT	290.000	-2.843	774150.147	7489627.751	LBAT
55.632	0.000	774272.055	7489428.607	CL	290.000	0.000	774152.649	7489629.100	CL
55.632	12.387	774280.895	7489437.285	RBAT	290.000	2.944	774155.241	7489630.497	RBAT
60.000	-11.592	774260.723	7489423.603	LBAT	295.924	-2.565	774147.580	7489633.098	LBAT
60.000	0.000	774268.995	7489431.724	CL	295.924	0.000	774149.838	7489634.315	CL
60.000	11.204	774276.990	7489439.573	RBAT	295.924	2.553	774152.085	7489635.527	RBAT
70.000	-10.073	774254.801	7489431.804	LBAT					
70.000	0.000	774261.990	7489438.861	CL					
70.000	8.818	774268.282	7489445.038	RBAT					
77.281	-8.953	774250.500	7489437.784	LBAT					
77.281	0.000	774256.889	7489444.056	CL					
77.281	14.051	774266.916	7489453.900	RBAT					
80.000	-8.538	774248.757	7489440.209	LBAT					
80.000	0.000	774255.011	7489446.022	CL					
80.000	14.872	774265.903	7489456.149	RBAT					
90.000	-8.067	774242.152	7489448.799	LBAT					
90.000	0.000	774248.579	7489453.674	CL					
90.000	17.573	774262.580	7489464.295	RBAT					
100.000	-10.766	774233.759	7489456.312	LBAT					
100.000	0.000	774242.944	7489461.930	CL					
100.000	20.071	774260.066	7489472.403	RBAT					
105.451	-15.146	774226.895	7489459.468	LBAT					
105.451	0.000	774240.227	7489466.655	CL					
105.451	21.353	774259.023	7489476.789	RBAT					
110.000	-18.445	774221.833	7489461.906	LBAT					
110.000	0.000	774238.069	7489470.659	CL					
110.000	22.192	774257.603	7489481.191	RBAT					
120.000	-22.360	774213.641	7489468.850	LBAT					
120.000	0.000	774233.323	7489479.462	CL					
120.000	23.358	774253.884	7489490.546	RBAT					
130.000	-23.325	774208.046	7489477.195	LBAT					
130.000	0.000	774228.578	7489488.264	CL					
130.000	23.380	774249.157	7489499.359	RBAT					
140.000	-23.022	774203.567	7489486.141	LBAT					
140.000	0.000	774223.832	7489497.066	CL					
140.000	22.179	774243.355	7489507.591	RBAT					
150.000	-21.903	774199.807	7489495.474	LBAT					
150.000	0.000	774219.086	7489505.868	CL					
150.000	24.977	774241.072	7489517.721	RBAT					
160.000	-22.846	774194.231	7489503.829	LBAT					
160.000	0.000	774214.341	7489514.671	CL					
160.000	29.489	774240.298	7489528.665	RBAT					
170.000	-24.397	774188.121	7489511.895	LBAT					
170.000	0.000	774209.595	7489523.473	CL					
170.000	33.141	774238.767	7489539.200	RBAT					
180.000	-25.175	774182.690	7489520.328	LBAT					
180.000	0.000	774204.850	7489532.275	CL					
180.000	28.224	774229.693	7489545.669	RBAT					
190.000	-24.853	774178.228	7489529.283	LBAT					
190.000	0.000	774200.104	7489541.077	CL					
190.000	21.764	774219.262	7489551.406	RBAT					
200.000	-27.180	774171.435	7489536.982	LBAT					
200.000	0.000	774195.359	7489549.880	CL					
200.000	13.148	774206.932	7489556.119	RBAT					

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS			
ISSUE	DATE	SUBJECT	AUTHORISED
1	13/08/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MOB: 04 17187149
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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
EMBANKMENT CROSS SECTIONS
BATTER INTERCEPT SETOUTS

FILE NO G1706-02-DAM2.DWG
JOB NO G1706/02

SCALE NOT TO SCALE AT A3 SIZE

DRAWING NUMBER G1706-02-DAM-7
ISSUE 1
SHEET 8

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-DAM3 (Spillway Type Xsec & Sections).dwg - DAM8-9 - 15/08/2018 10:50:48 AM

LEGEND

- (R) DESIGN SURFACE BATTER INTERCEPT POINT. ADJUST ON SITE TO SUIT ACTUAL NATURAL SURFACE. REFER CROSS SECTIONS FOR DEIGN OFFSETS & LEVELS
- (S) REFERENCE POINT WITH ALIGNMENT SETOUT DETAILS - CENTER LINE
- CL CROSS SECTION SETOUT REFERENCE CODE (TYP)

- TYPE CROSS SECTION NOTES**
- NATURAL SURFACE PREPARATION: CLEAR & GRUB; REMOVE TOPSOIL AND STOCKPILE FOR USE WITH RE-VEGETATION.
 - RIP RAP ROCK LINING: RIP RAP ROCK LINING TO BE UNIFORMLY GRADED 0.5m THK DENSE, HARD & DURABLE MATERIAL; $D_{50}=500\text{mm}$, MAX SIZE=750mm, 90% > 300mm; GEOFABRIC UNDERLAY - BIDIM @ A34 OR EQUIV. FINISHED SURFACE TO MATCH DESIGN SURFACE LEVELS. VOIDS TO BE FILLED WITH TOPSOIL.
 - CONCRETE SILL: SIZE 20.0mLx1.0mWx1.5mD; TOP OF SILL RL25.0; N32 CONCRETE; 3-N20 BARS TOP & BTM; N12 LIGS @ 0.75m CTRS.

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
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NOT FOR CONSTRUCTION

AMENDMENTS

ISSUE	DATE	SUBJECT	IN/PRIORITY
1	13/08/18	FIRST ISSUE	OK

XREF FILES

DRAWING NO.	TITLE

DRAWN ASC DATE 05/18
DESIGN ASC DATE 05/18

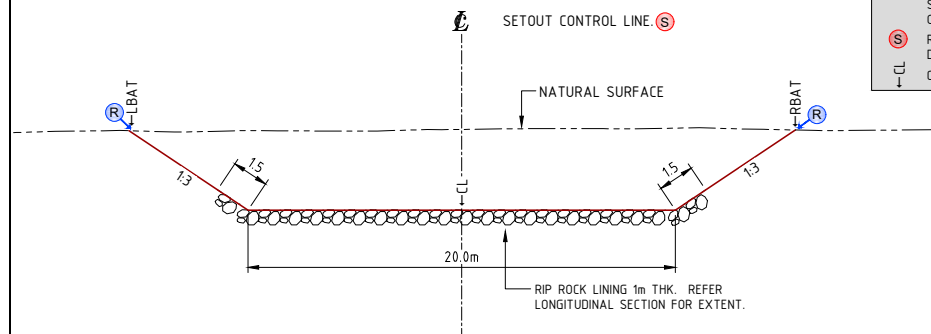


AUSTRALIAN MINING ENGINEERING CONSULTANTS
CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR USE DATE 23/07/17

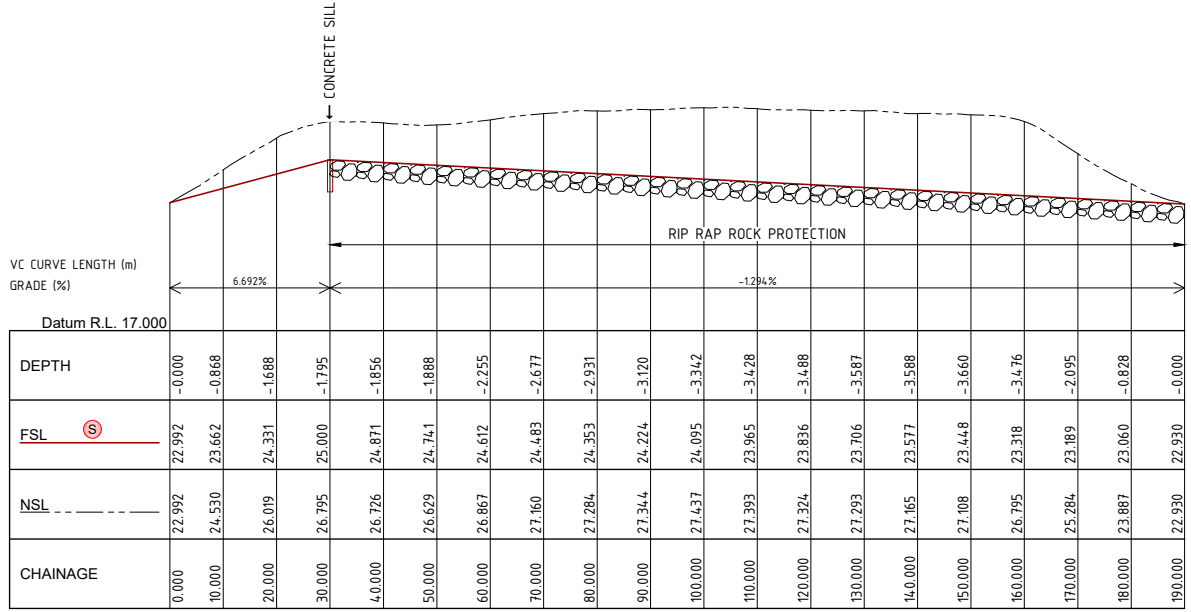
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
SPILLWAY LONG SECTION &
TYPE CROSS SECTION DETAILS

TITLE NO G1706-02-DAM3.DWG
JOB NO G1706/02
SCALE 0 1:1000 HORZ. 20 1:1 A3 SIZE
0 1:250 VERT 5
DRAWING NUMBER G1706-02-DAM-8 1 9



TYPE CROSS SECTION SPILLWAY
NTS

CONTROL LINE SETOUTS CHAINAGE	EASTING	NORTHING
0.000	774120.093	7489569.402
10.000	774121.059	7489579.355
20.000	774122.025	7489589.308
30.000	774122.991	7489599.261
40.000	774123.957	7489609.215
50.000	774124.923	7489619.168
60.000	774126.043	7489629.104
70.000	774127.558	7489638.988
80.000	774129.466	7489648.804
90.000	774131.765	7489658.535
100.000	774134.452	7489668.167
110.000	774137.521	7489677.683
120.000	774140.969	7489687.070
130.000	774144.789	7489696.310
140.000	774148.976	7489705.391
150.000	774153.523	7489714.297
160.000	774158.422	7489723.014
170.000	774163.631	7489731.549
180.000	774168.893	7489740.053
190.000	774174.154	7489748.568
200.000	774179.415	7489757.062
210.000	774184.676	7489765.566
220.000	774189.938	7489774.070
230.000	774195.199	7489782.574
240.000	774200.460	7489791.078
250.000	774205.722	7489799.582
252.441	774207.006	7489801.657

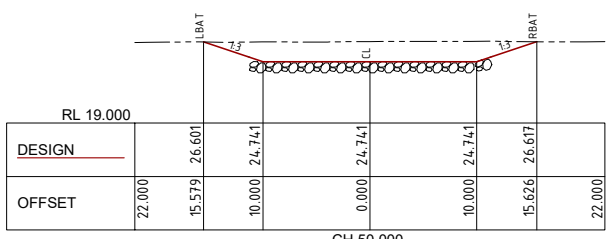


DEPTH	FSL (S)	NSL	CHAINAGE
-0.000	22.992	22.992	0.000
-0.868	23.662	24.530	10.000
-1.688	24.331	26.019	20.000
-1.795	25.000	26.795	30.000
-1.856	24.871	26.726	40.000
-1.888	24.741	26.629	50.000
-2.255	24.612	26.867	60.000
-2.677	24.483	27.160	70.000
-2.931	24.353	27.284	80.000
-3.120	24.224	27.344	90.000
-3.342	24.095	27.437	100.000
-3.428	23.965	27.393	110.000
-3.488	23.836	27.324	120.000
-3.587	23.706	27.293	130.000
-3.588	23.577	27.165	140.000
-3.660	23.448	27.108	150.000
-3.476	23.318	26.795	160.000
-2.095	23.189	25.284	170.000
-0.828	23.060	23.887	180.000
-0.000	22.930	22.930	190.000

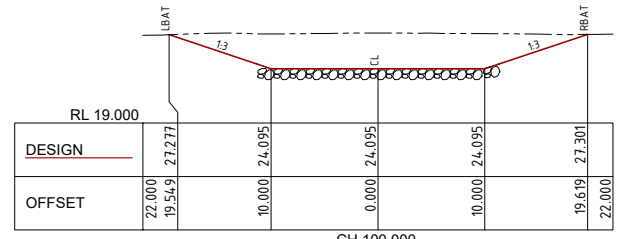
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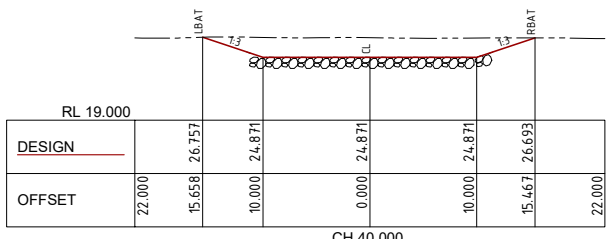
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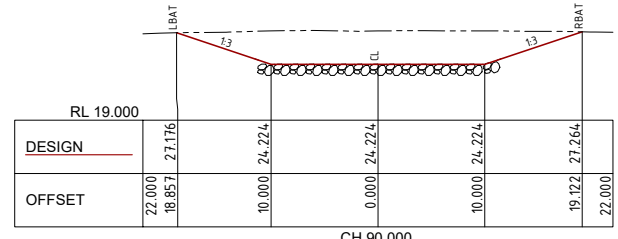
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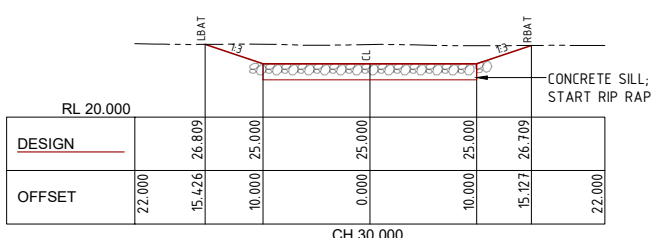
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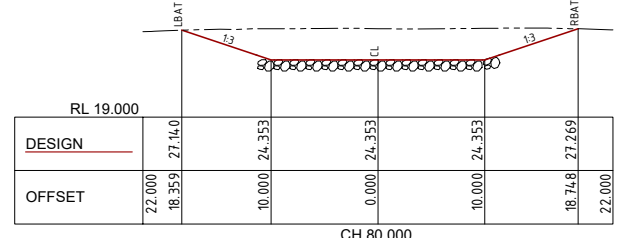
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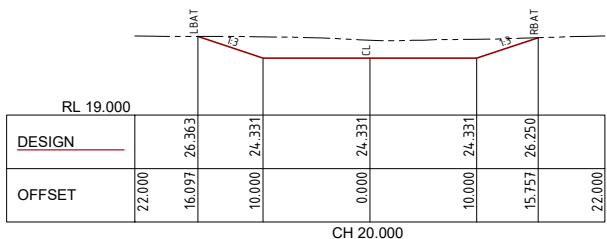
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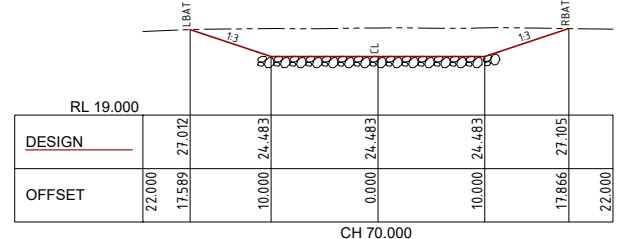
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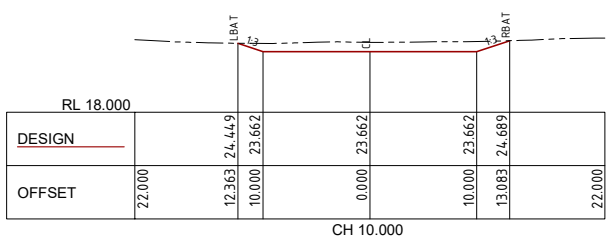
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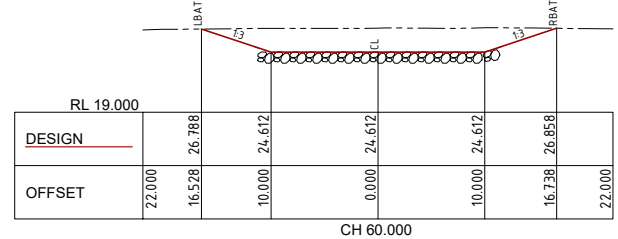
CH 20.000



CH 70.000



CH 10.000



CH 60.000

Scale Horizontal 1:500 Vertical 1:500

CHAINAGE	OFFSET	EASTING	NORTHING	CODE
0.000	-10.673	774109.470	7489570.433	LBAT
0.000	0.000	774120.093	7489569.402	CL
0.000	10.841	774130.883	7489568.355	RBAT
10.000	-12.363	774108.754	7489580.549	LBAT
10.000	0.000	774121.059	7489579.355	CL
10.000	13.083	774134.081	7489578.091	RBAT
20.000	-16.097	774106.003	7489590.863	LBAT
20.000	0.000	774122.025	7489589.308	CL
20.000	15.757	774137.708	7489587.786	RBAT
30.000	-15.426	774107.637	7489600.752	LBAT
30.000	0.000	774122.991	7489599.261	CL
30.000	15.127	774138.047	7489597.800	RBAT
40.000	-15.658	774108.372	7489610.727	LBAT
40.000	0.000	774123.957	7489609.215	CL
40.000	15.467	774139.351	7489607.721	RBAT
50.000	-15.579	774109.416	7489620.673	LBAT
50.000	0.000	774124.923	7489619.168	CL
50.000	15.626	774140.476	7489617.659	RBAT
60.000	-16.528	774109.659	7489631.280	LBAT
60.000	0.000	774126.043	7489629.104	CL
60.000	16.738	774142.635	7489626.901	RBAT
70.000	-17.589	774110.228	7489641.999	LBAT
70.000	0.000	774127.558	7489638.988	CL
70.000	17.866	774145.160	7489635.930	RBAT
80.000	-18.359	774111.518	7489652.667	LBAT
80.000	0.000	774129.466	7489648.804	CL
80.000	18.748	774147.794	7489644.859	RBAT
90.000	-18.857	774113.504	7489663.238	LBAT
90.000	0.000	774131.765	7489658.535	CL
90.000	19.122	774150.283	7489653.767	RBAT
100.000	-19.549	774115.731	7489673.795	LBAT
100.000	0.000	774134.452	7489668.167	CL
100.000	19.619	774153.240	7489662.519	RBAT

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SURVEY DATUM MGA55

COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

ISSUE	DATE	SUBJECT	AUTHORISED
1	13/08/18	FIRST ISSUE	OK

DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
DAM #1
SPILLWAY CROSS SECTIONS
CH10 - CH100

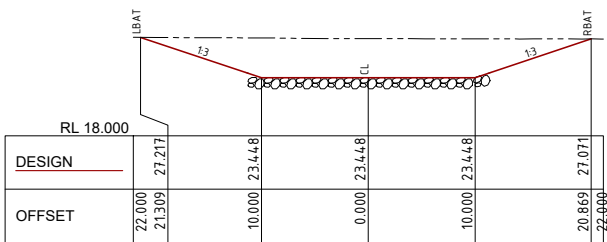
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JOB NO: G1706/02

SCALE: 0 1500 HORZ. 10 A3 SIZE
0 1500 VERT. 10

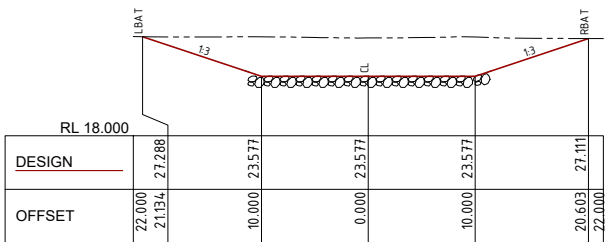
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ISSUE: 1
SHEET: 10

PRINT IN COLOUR

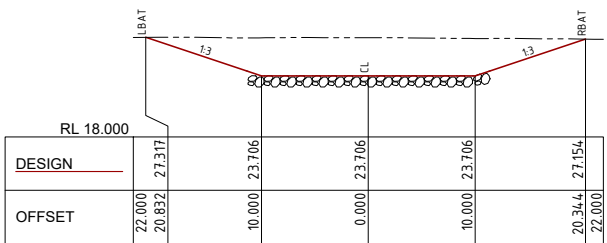
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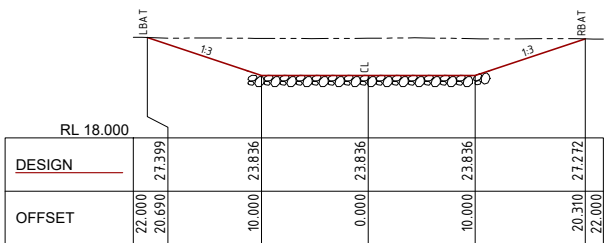
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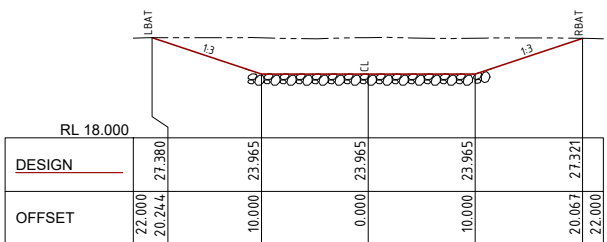
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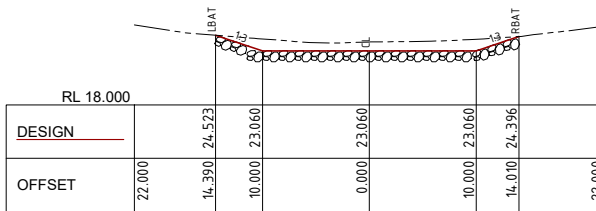
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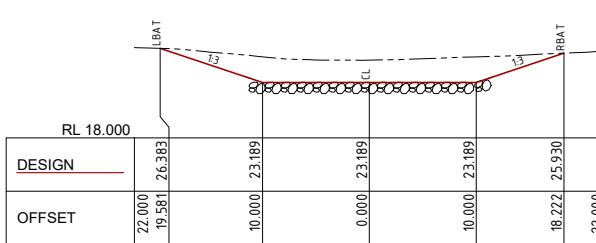
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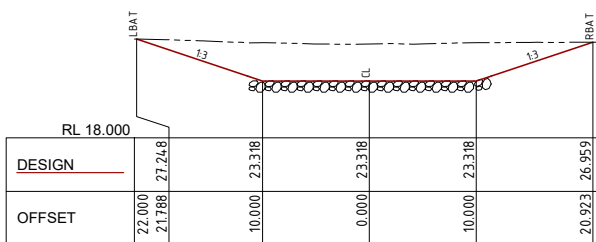
CH 110.000



CH 180.000



CH 170.000



CH 160.000

CHAINAGE	OFFSET	EASTING	NORTHING	CODE
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110.000	0.000	774137.521	7489677.683	CL
110.000	20.067	774156.493	7489671.142	RBAT
120.000	-20.690	774121.694	7489694.590	LBAT
120.000	0.000	774140.969	7489687.070	CL
120.000	20.310	774159.890	7489679.687	RBAT
130.000	-20.832	774125.700	7489704.653	LBAT
130.000	0.000	774144.789	7489696.310	CL
130.000	20.344	774163.431	7489688.163	RBAT
140.000	-21.134	774129.965	7489714.622	LBAT
140.000	0.000	774148.976	7489705.391	CL
140.000	20.603	774167.510	7489696.392	RBAT
150.000	-21.309	774134.742	7489724.363	LBAT
150.000	0.000	774153.523	7489714.297	CL
150.000	20.869	774171.917	7489704.438	RBAT
160.000	-21.788	774139.646	7489734.066	LBAT
160.000	0.000	774158.422	7489723.014	CL
160.000	20.923	774176.453	7489712.400	RBAT
170.000	-19.581	774146.979	7489741.852	LBAT
170.000	0.000	774163.631	7489731.549	CL
170.000	18.222	774179.127	7489721.962	RBAT
180.000	-14.390	774156.655	7489747.624	LBAT
180.000	0.000	774168.893	7489740.053	CL
180.000	14.010	774180.807	7489732.682	RBAT

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
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SURVEY DATUM MGA55



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

ISSUE DATE	SUBJECT	AUTHORIZED
13/08/18	FIRST ISSUE	OK

XREF FILES	DRAWING NO.	TITLE

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
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EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

DAM #1

SPILLWAY CROSS SECTIONS

CH110 - CH180

FILL NO G1706-02-DAM3.DWG

JOB NO G1706/02

SCALE 0 1500 HORZ 10 A3 SIZE

SCALE 0 1500 VERT 10

DRAWING NUMBER G1706-02-DAM-10

ISSUE SHEET NO 1 11

PRINT IN COLOUR



CENTRAL QUEENSLAND COAL

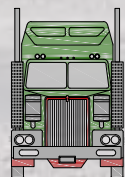


DRAWING INDEX

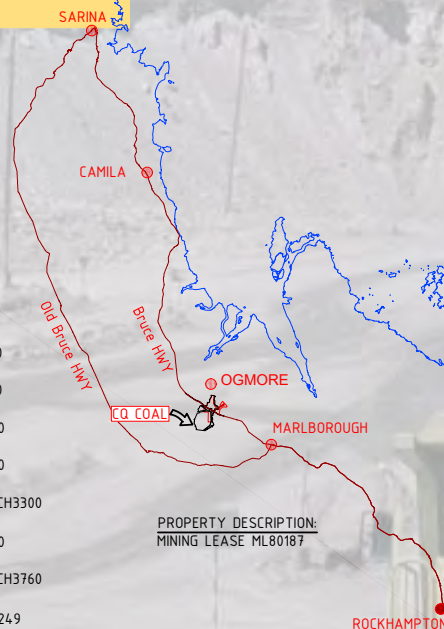
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CIVIL WORKS			
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CHPP/MIA - TLO HAUL ROAD			
2	G1706-02-HR-1	1	ALIGNMENT SETOUTS
3	G1706-02-HR-2	1	TYPE CROSS SECTION & DETAILS SHEET 1 OF 2
4	G1706-02-HR-3	1	TYPE CROSS SECTION & DETAILS SHEET 2 OF 2
5	G1706-02-HR-4	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH180 - CH680
6	G1706-02-HR-5	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH680 - CH1080
7	G1706-02-HR-6	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH1080 - CH1680
8	G1706-02-HR-7	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH1680 - CH2180
9	G1706-02-HR-8	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH2180 - CH2680
10	G1706-02-HR-9	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH2680 - CH3180
11	G1706-02-HR-10	2	PLAN & LONGITUDINAL SECTION DIVERSION DRAIN CH2700 - CH3300
12	G1706-02-HR-11	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH3180 - CH3680
13	G1706-02-HR-12	2	PLAN & LONGITUDINAL SECTION DIVERSION DRAIN CH3300 - CH3760
14	G1706-02-HR-13	2	PLAN & LONGITUDINAL SECTION HAUL ROAD CH3680-CH3997.249
15	G1706-02-HR-14	2	PLAN & LONGITUDINAL SECTION HAUL HAUL ROAD CH4.720-CH5220
16	G1706-02-HR-15	2	PLAN & LONGITUDINAL SECTION HAUL HAUL ROAD CH4.720-CH5432.851
17	G1706-02-HR-16	2	CROSS SECTIONS CH660 - CH1020
18	G1706-02-HR-17	2	CROSS SECTIONS CH1080 - CH1980
19	G1706-02-HR-18	2	CROSS SECTIONS CH2025.928-CH2700
20	G1706-02-HR-19	2	CROSS SECTIONS CH2700-CH3660
21	G1706-02-HR-20	2	CROSS SECTIONS CH3720-CH3997.249
22	G1706-02-HR-21	2	CROSS SECTIONS CH4.732.369-CH5400
23	G1706-02-HR-22	2	CULVERT SECTIONS CH360-CH2040
24	G1706-02-HR-23	2	CULVERT SECTIONS CH2560 - CH4840

CIVIL WORKS

CHPP/MIA - TLO HAUL ROAD



HAUL ROAD CHPP/MIA TO TLO JOB NO. G1706/02



IMPORTANT NOTICE

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES UNLESS DIRECTED OTHERWISE. SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM <http://www.cmdg.com.au/>.
- THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
- THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
- AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
- THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
- SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS.

EXISTING LEVELS AND SERVICES

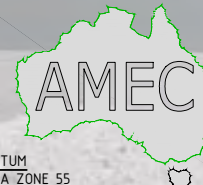
- NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
- THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
- PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

ENVIRONMENTAL MANAGEMENT

- THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
- THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
- THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
- ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
- ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

- UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES (CMDG) STANDARD DRAWINGS OR TRANSPORT MAIN ROADS (TMR) STANDARD DRAWINGS.

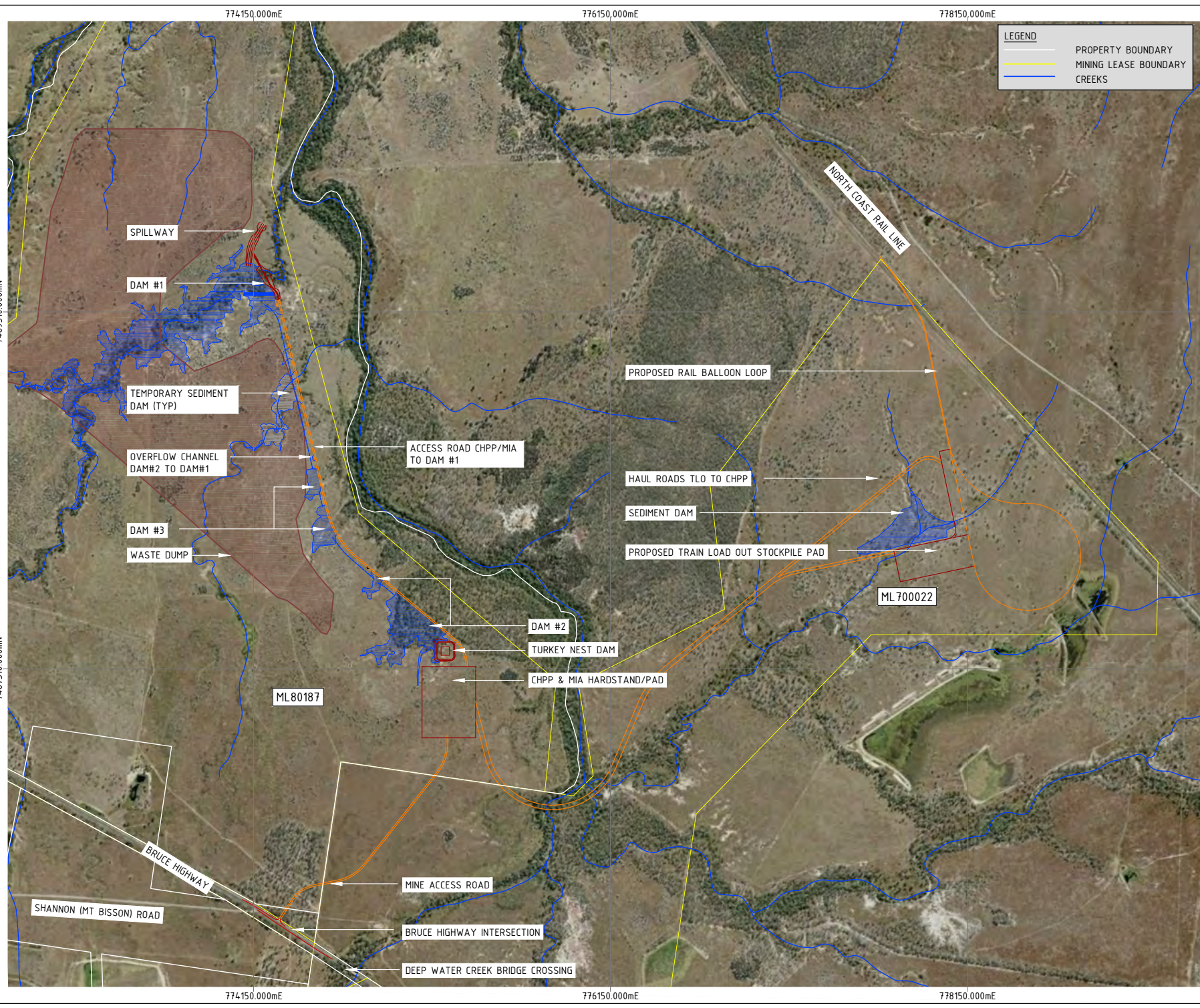


DATUM
MGA ZONE 55
AUSTRALIAN MINING ENGINEERING
CONSULTANTS

INDEX DRAWINGS

G1706-02-HR-0

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-GA1 (Civil Works Site Plan).dwg, GA1, 12/08/2018 3:37:47 PM



LEGEND

- PROPERTY BOUNDARY
- MINING LEASE BOUNDARY
- CREEKS

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SURVEY DATUM MGA55



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



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RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

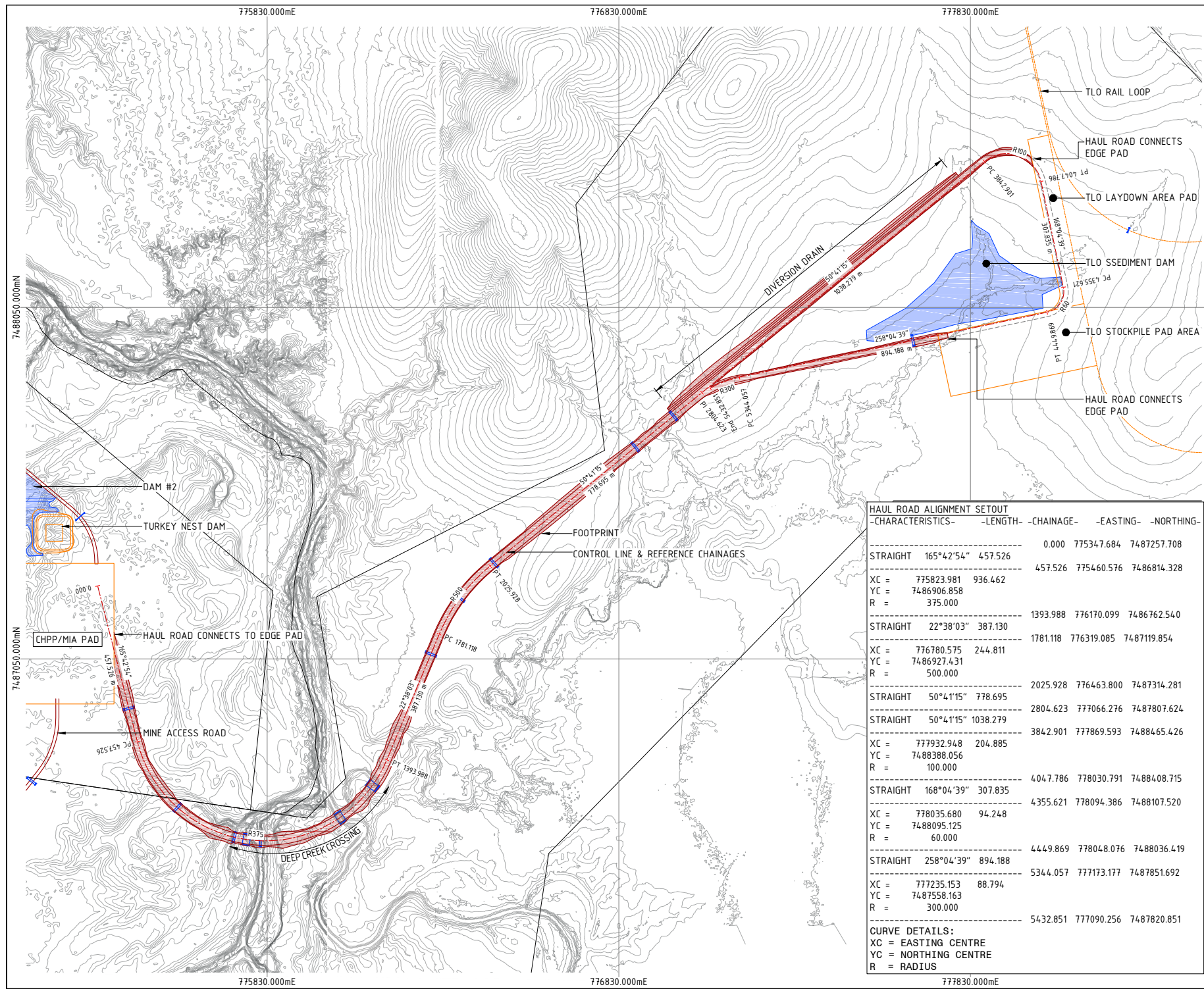
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
SITE PLAN

TITLE NO: G1706-02-GA1.DWG
JOB NO: G1706/02
SCALE: 0 120000 HORIZ. 400 A3 SIZE

DRAWING NUMBER: G1706-02-GA-1
ISSUE SHEET NO: 2 1

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02\HR1 (Haul Rd Site Plan).dwg, HR1-2, 12/08/2018 3:31:54 PM



HAUL ROAD ALIGNMENT SETOUT				
-CHARACTERISTICS-	-LENGTH-	-CHAINAGE-	-EASTING-	-NORTHING-
STRAIGHT	165°42'54"	457.526	0.000	775347.684 7487257.708
			457.526	775460.576 7486684.328
XC =	775823.981	936.462		
YC =	7486906.858			
R =	375.000			
-----			1393.988	776170.099 7486762.540
STRAIGHT	22°38'03"	387.130		
			1781.118	776319.085 7487119.854
XC =	776780.575	244.811		
YC =	7486927.431			
R =	500.000			
-----			2025.928	776463.800 7487314.281
STRAIGHT	50°4'15"	778.695		
			2804.623	777066.276 7487807.624
XC =	777932.948	204.885		
YC =	7488388.056			
R =	100.000			
-----			3842.901	777869.593 7488465.426
STRAIGHT	168°04'39"	307.835		
			4047.786	778030.791 7488408.715
XC =	778035.680	94.248		
YC =	7488095.125			
R =	60.000			
-----			4449.869	778048.076 7488036.419
STRAIGHT	258°04'39"	894.188		
			5344.057	777173.177 7487851.692
XC =	777235.153	88.794		
YC =	7487558.163			
R =	300.000			
-----			5432.851	777090.256 7487820.851
CURVE DETAILS:				
XC =	EASTING CENTRE			
YC =	NORTHING CENTRE			
R =	RADIUS			

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SURVEY DATUM MGA55
CONTOURS 1.0m NATURAL SURFACE

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AMENDMENTS			
ISSUE	DATE	SUBJECT	INITIALS
1	8/08/18	FIRST ISSUE	EK

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 05/18

DESIGN: ASC DATE: 05/18

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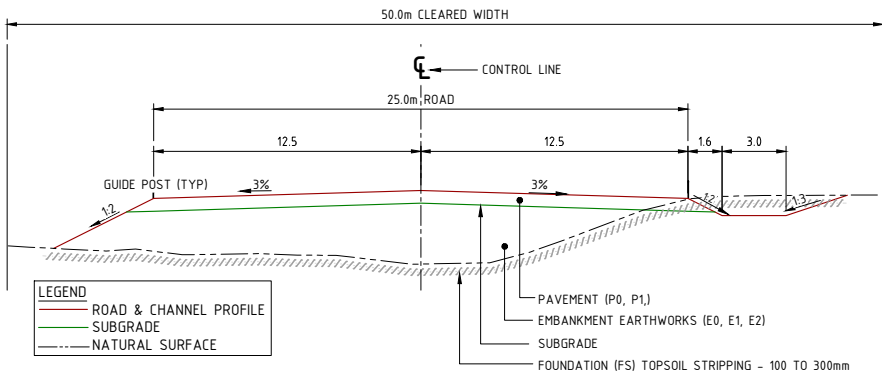
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MACKAY

RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

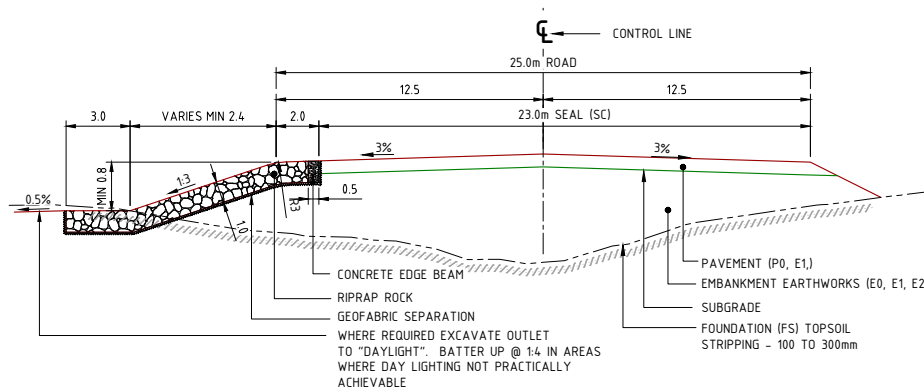
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
ALIGNMENT SETOUTS

TITLE NO: G1706-02-HR1.DWG
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DRAWING NUMBER: G1706-02-HR-1 ISSUE: 1 SHEET NO: 2

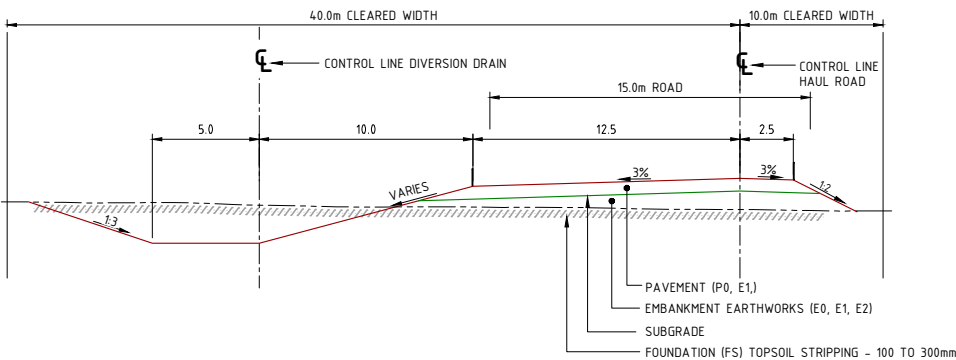
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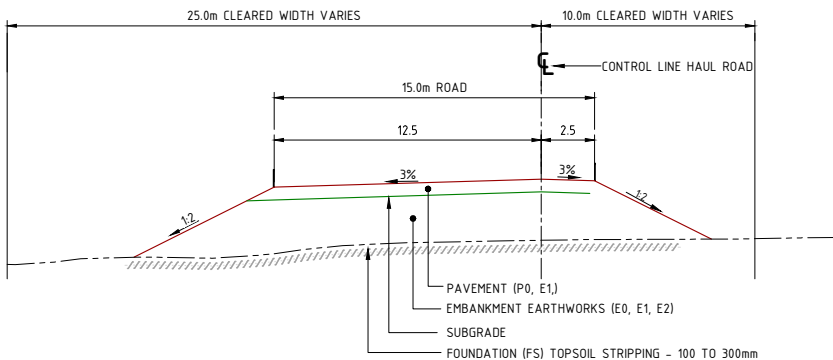
TYPE CROSS SECTION "A" HAUL ROAD 2-WAY



TYPE CROSS SECTION "C" HAUL ROAD FLOODWAY



TYPE CROSS SECTION "B" HAUL ROAD 1-WAY



TYPE CROSS SECTION "B" HAUL ROAD 1-WAY

NOTES

1. CONNECTION TO EXISTING WORKS: LEVELS MAY BE VARIED WHERE NECESSARY TO ACHIEVE A SATISFACTORY SMOOTH CONNECTION TO EXISTING WORKS
2. EMBANKMENT EARTHWORKS GENERAL (E0): WELL GRADED LOCALLY SOURCED NON DISPERSIVE MATERIAL; MAX PARTICLE SIZE 150mm; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
3. EMBANKMENT EARTHWORKS ADDITIONAL REQUIREMENTS FOR SECTIONS NOT ACTING AS DAM WALLS (E1): LL < 30% & PI < 15%.
4. EMBANKMENT EARTHWORKS ADDITIONAL REQUIREMENTS FOR SECTIONS ACTING AS DAM WALLS UPTO FULL SUPPLY LEVEL (E2): WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & MIN 20% PASSING 75µm.
5. FOUNDATION PREPARATION - SPECIAL (FS): REQUIREMENT FOR CUT OFF TRENCH SHALL BE ASSESSED ON SITE.
6. BATTERS & DRAINS: OUTER FACE OF BATTERS TO BE WHEEL ROLLED; BATTERS & DRAINS TO BE FINAL TRIMMED; & RE-SPREAD MIN 100mm TOPSOIL ON FINISHED SURFACE.
7. RE-VEGETATION OF BATTERS & DRAINS: TO BE ADVISED BY PRINCIPAL.
8. ROCK LINING: RIP RAP ROCK LINING TO DRAINS & OUTLET TO BE UNIFORMLY GRADED 0.5m THK DENSE, HARD & DURABLE MATERIAL; D₅₀ SIZE 150mm & MAX SIZE 300mm. FINISHED SURFACE TO MATCH DESIGN SURFACE LEVELS. VOIDS TO BE FILLED WITH TOPSOIL.
9. PAVEMENT DETAILS GENERAL (P0): BASE COURSE 600mm COMPACTED DEPTH FRESH PERMIAN SANDSTONE SPOIL. MATERIALS TO BE SUPPLIED IN STOCKPILE BY THE MINE.
10. PAVEMENT DETAILS FLOODWAY (P1): BASE COURSE 150mm COMPACTED DEPTH TMR TYPE 2.1 GRAVEL STABILISED WITH 4% CEMENT BY WEIGHT; SUB BASE 450mm COMPACTED DEPTH FRESH PERMIAN SANDSTONE SPOIL.
11. PAVEMENT SEAL COAT (SC): PROPRIETARY PRODUCT PRIME + 2 COAT BITUMEN SEAL - PRIME BITUMEN GRADE AMCO; SEAL COAT(1) BITUMEN GRADE C170 + 10mm AGGREGATE; SEAL COAT(2) BITUMEN GRADE C170 + 16mm AGGREGATE. RATE TO BE CONFIRMED WITH SUPPLIER.
12. RIPRAP ROCK PROTECTION WORKS: GRADING - MAX SIZE 0.75m, 50% LARGER THAN 0.55m & 90% LARGER THAN 0.3m; GEOFABRIC UNDERLAY - BIDIM @ A34 OR EQUIV.
13. CONCRETE EDGE BEAM RIPRAP ROCK PROTECTION WORKS: N32 CONCRETE; 3-N20 BARS TOP & BTM; N12 LIGS @ 0.75m CTRS; & JOINTS @20m CTRS.
14. CULVERTS: ALL CULVERTS UNLESS SHOWN OTHERWISE TO BE HELICAL LOCK SEAM CORRUGATED STEEL 2.0mm PLATE PIPES. ALL ENDS TO BE MITRED TO MATCH THE EMBANKMENT SLOPE. GROUND SLOPES ARE VERY FLAT & INVERT LEVELS MAY NEED TO BE ADJUSTED ON SITE TO SUIT.
15. ROAD SIGNS: INSTALLATION AS PER STANDARD DRAWING CMDG-R-081. ALL SIGNS SIZE 'B'.
16. GUIDEPOSTS: ON STRAIGHTS TO INSTALLED IN PAIRS AT 300m SPACINGS. ON CURVES PROVIDE POSTS AT 6m SPACING ON INSIDE OF CURVE AND 12m SPACING ON OUTSIDE OF CURVE. AT SINGLE BARREL CULVERT CROSSINGS PROVIDE 2 POSTS EACH END ON EITHER SIDE. FOR MULTIPLE BARREL CROSSINGS PROVIDE ADDITIONAL POSTS WITHIN THE CROSSING AT 1m SPACINGS. GUIDE POSTS TO BE SAFEROADS FLEXLOC @ OR APPROVED EQUIV. INSTALLATION AS PER TMR STANDARD DRAWING 1356.
17. AUDIT TESTING/COMPLIANCE REQUIREMENT: REFER TABLE THIS PLAN.

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AMENDMENTS			
ISSUE	DATE	SUBJECT	APPROVED
1	8/08/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE: 05/18
DESIGN: ASC DATE: 05/18

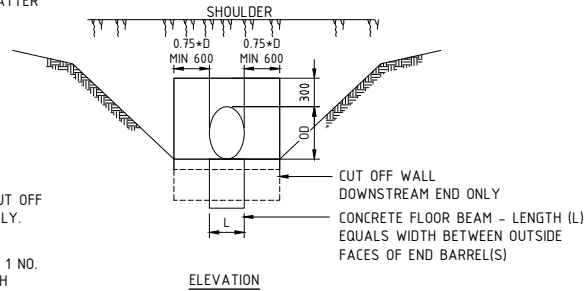
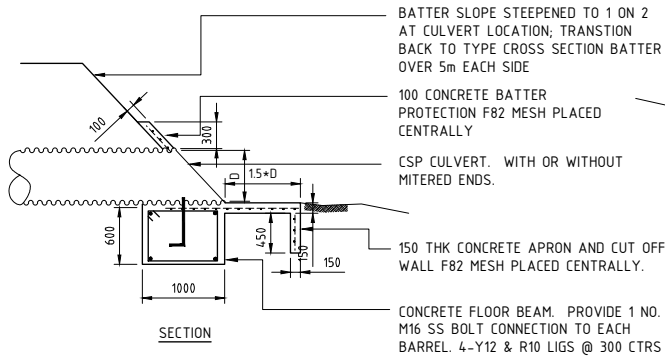


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RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
TYPE CROSS SECTION & DETAILS
SHEET 1 OF 2

TITLE NO: G1706-02-HR2.DWG
JOB NO: G1706/02
SCALE: NOT TO SCALE AT A3 SIZE
DRAWING NUMBER: G1706-02-HR-2 ISSUE: 1 SHEET NO: 3

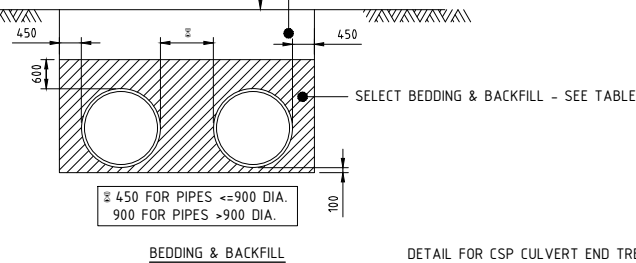


IN EMBANKMENTS, CONSTRUCT EMBANKMENT TO MINIMUM 600mm ABOVE TOP OF BARREL AND THEN EXCAVATE FOR CULVERT. WIDTH OF EXCAVATION NOT TO EXCEED DIMENSIONS SHOWN.

BACKFILL - INSITU MATERIAL. COMPACT TO MIN. 95% MAXIMUM DRY DENSITY STANDARD COMPACTION AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2.

HELCOR PIPE BEDDING & BACKFILL DETAILS	
SIEVE SIZE	MASS OF SAMPLE PASSING %
75	100
53	80 - 100
9.5	60 - 85
2.36	25 - 75
0.075	0 - 10

SELECT BACKFILL MATERIAL SHALL COMPLY WITH THESE GRADING REQUIREMENTS & HAVE A MAXIMUM LINEAR SHRINKAGE OF 8% DETERMINED IN ACCORDANCE WITH AS1289.C4.1. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY FOR STANDARD COMPACTION EFFORT AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2. HELCOR PIPE COMPONENTS - AS1761-1985. PIPE DESIGN AND CONSTRUCTION - AS1762-1984. REFER TO MANUFACTURER SPECS FOR FULL DETAILS. WITH AS1289.C4.1. ALL BACKFILL MATERIAL SHALL



DETAIL FOR CSP CULVERT END TREATMENT DIMENSIONS MILLIMETRES

AUDIT TESTING SCHEDULE/COMPLIANCE STANDARDS		
SUBGRADE CBR'S	CBR TO MAIN ROADS (TMR) TEST Q13A (4 DAY SOAKED SPECIMENS, 4 POINT)	ONE TEST PER MATERIAL CHANGE. PLAN SHOWING EXTENT OF EACH TYPE OF MATERIAL TESTED.
NATURAL SURFACE UNDER EMBANKMENTS AFTER STRIPPING (FS)	TOP 150mm FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
EMBANKMENT EARTHWORKS (E0, E1, E2)	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
SUBGRADE PREPARATION	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
PAVEMENT LAYERS (P0)	FIELD DENSITY (AUSTRALIAN STANDARD)	NOT APPLICABLE
PAVEMENT LAYERS BASE COURSE (P1)	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES OF ROAD, ALTERNATIVE SIDES; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
PAVEMENT MATERIAL (P0, P1)	QUALITY	FRESH PERMIAN SANDSTONE EX STOCKPILE PROVIDED BY MINE. NO TESTING REQUIRED BY CONTRACTOR.
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
CONCRETE FOR SLABS, HEADWALLS	COMPRESSION TEST (AUSTRALIAN STANDARD)	ONE (1) SET OF THREE CYLINDERS PER CULVERT INSTALLATION (1 X 7 DAYS, 2 X 28 DAYS).

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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORISED
1 8/08/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE

DRAWN ASC DATE 05/18

DESIGN ASC DATE 05/18



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MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
TYPE CROSS SECTION & DETAILS
SHEET 2 OF 2

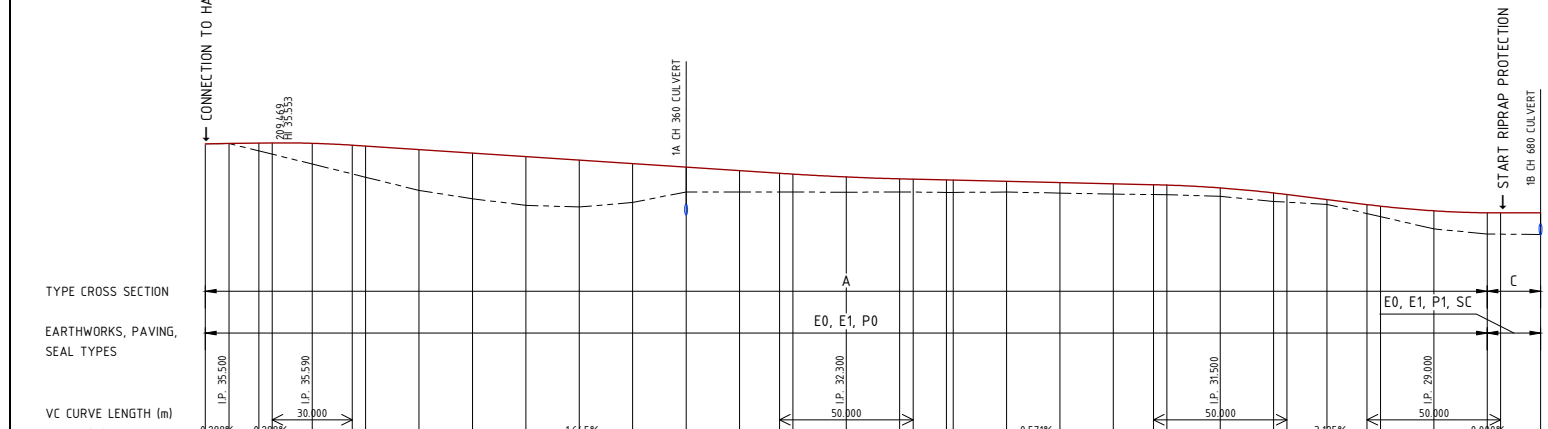
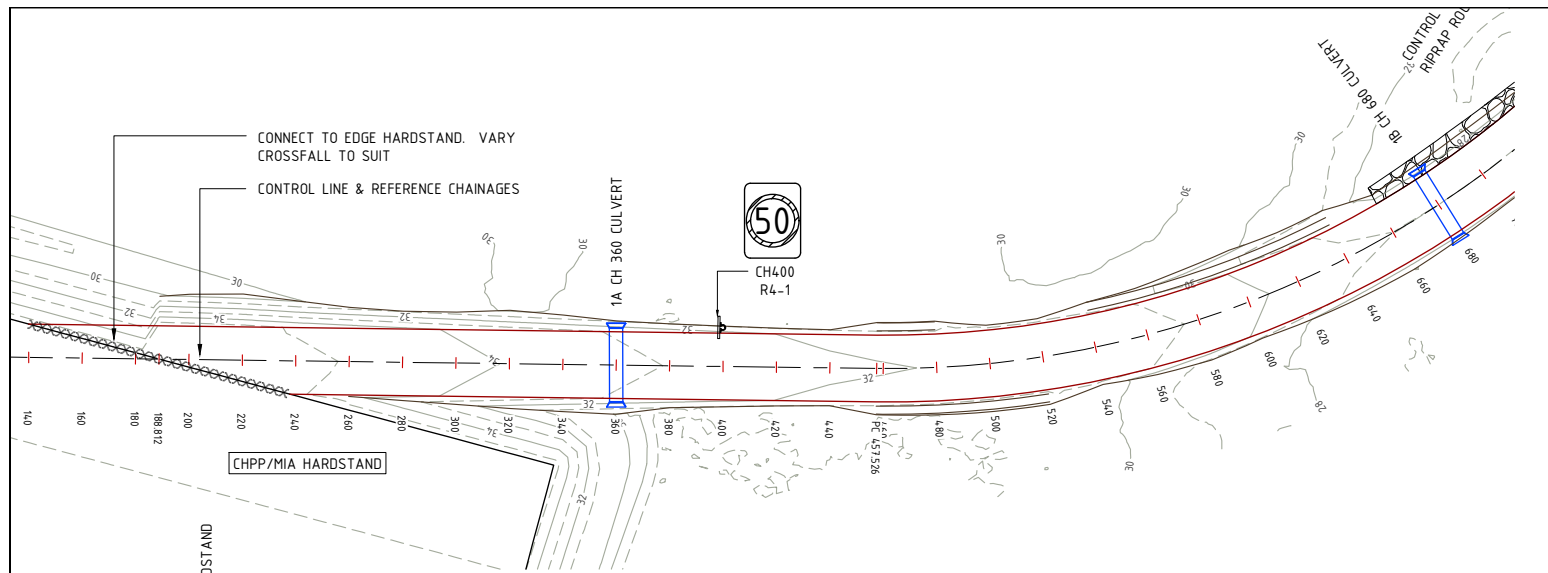
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JOB NO G1706/02

SCALE NOT TO SCALE AT A3 SIZE

DRAWING NUMBER G1706-02-HR-3 ISSUE SHEET NO 1 4

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DEPTH	FSL	NSL	CHAINAGE	ALIGNMENT DETAILS	SUPER ELEVATION
+0.000	35.475	35.475	180.000	B=165*42.54" D=457.53	-1.1
-0.000	35.500	35.500	188.812		
+0.722	35.532	34.810	200.000	R=375.00 L=936.46	-3.0
	35.547	35.547	205.000		
+1.941	35.517	33.576	220.000		
+2.918	35.343	32.342	235.000		
+3.823	34.932	31.109	260.000		
+4.280	34.603	30.323	280.000		
+4.562	34.274	29.712	300.000		
+4.394	33.945	29.551	320.000		
+3.631	33.616	29.985	340.000		
+2.321	33.287	30.966	360.000		
+2.004	32.958	30.954	380.000		
+1.675	32.711	30.957	395.000		
+1.434	32.367	30.934	420.000		
+1.222	32.188	30.966	440.000		
+1.170	32.086	30.916	457.526		
+1.151	32.071	30.921	460.000		
+1.003	31.957	30.955	480.000		
+0.989	31.843	30.854	500.000		
+0.963	31.729	30.765	520.000		
+0.904	31.643	30.704	535.000		
+0.790	31.340	30.550	560.000		
+0.798	30.869	30.071	580.000		
+0.456	30.250	29.794	600.000		
+1.981	29.008	29.781	615.000		
+2.033	29.000	29.633	620.000		
	29.000	29.195	640.000		
	29.000	29.000	660.000		
	29.000	26.967	680.000		

CONTROL LINE SETOUT		
CHAINAGE	EASTING	NORTHING
188.812	775394.272	7487074.734
200.000	775397.033	7487063.892
220.000	775401.968	7487044.510
240.000	775406.903	7487025.128
260.000	775411.838	7487005.747
280.000	775416.773	7486986.365
300.000	775421.708	7486966.983
320.000	775426.642	7486947.602
340.000	775431.577	7486928.220
360.000	775436.512	7486908.839
380.000	775441.447	7486889.457
400.000	775446.382	7486870.075
420.000	775451.317	7486850.694
440.000	775456.252	7486831.312
457.526	775460.576	7486814.328
460.000	775461.195	7486811.933
480.000	775466.771	7486792.728
500.000	775473.363	7486773.848
520.000	775480.952	7486755.347
540.000	775489.516	7486737.276
560.000	775499.032	7486719.687
580.000	775509.472	7486702.631
600.000	775520.806	7486686.155
620.000	775533.002	7486670.307
640.000	775546.026	7486655.132
660.000	775559.840	7486640.673
680.000	775574.405	7486626.971

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE

COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 03/05/18
DESIGN: ASC DATE: 03/05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

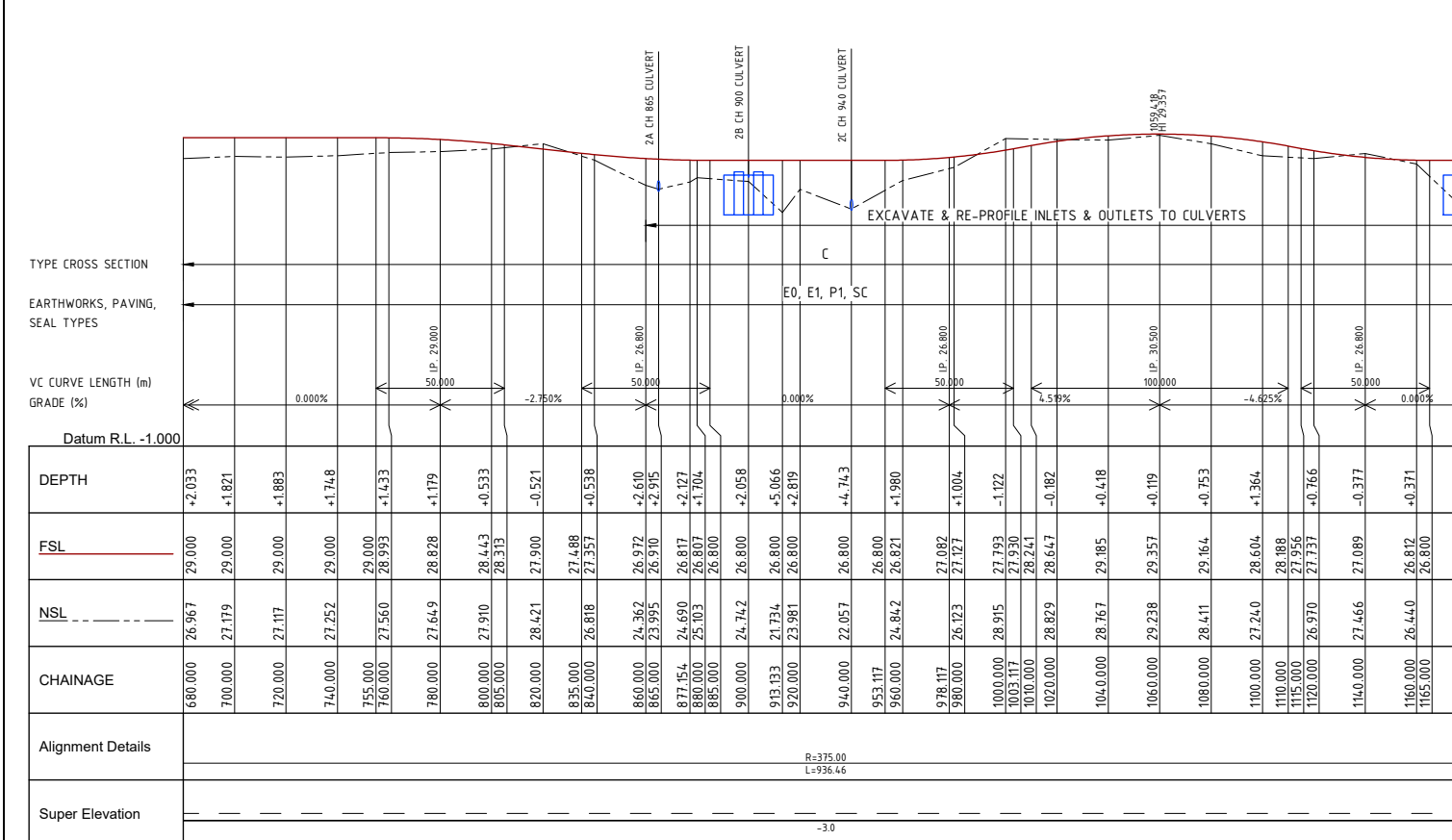
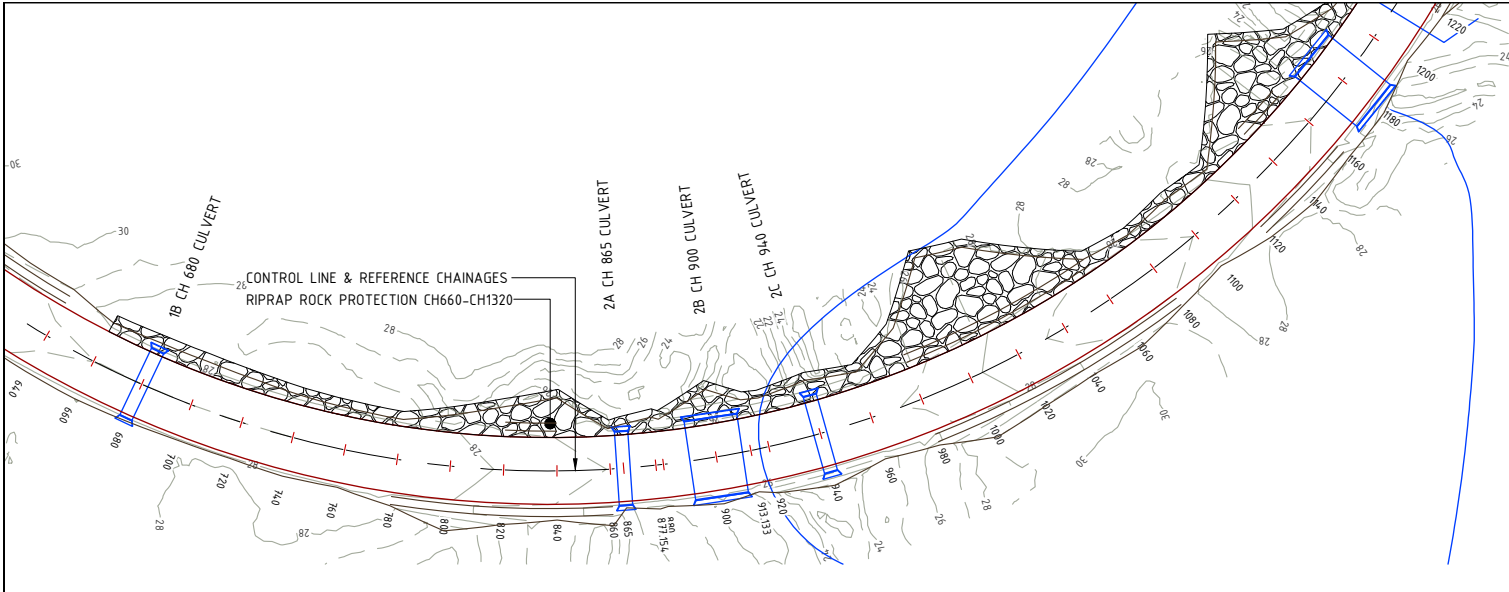
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH180-CH680

TITLE NO: G1706-02-HR3.DWG
JOB NO: G1706/02

SCALE: 0 1:2000 HORZ 40 AT A3 SIZE
0 1:500 VERT 10

DRAWING NUMBER: G1706-02-HR-4
ISSUE SHEET NO: 2 5

PRINT IN COLOUR



CHAINAGE	EASTING	NORTHING
680.000	775574.405	7486626.971
700.000	775589.681	7486614.064
720.000	775605.622	7486601.783
740.000	775622.184	7486590.475
760.000	775639.321	7486580.475
780.000	775656.982	7486571.096
800.000	775675.118	7486562.671
820.000	775693.678	7486555.224
840.000	775712.608	7486548.778
860.000	775731.855	7486543.350
880.000	775751.364	7486538.956
900.000	775771.079	7486535.608
913.133	775784.110	7486533.983
920.000	775790.945	7486533.516
940.000	775810.905	7486532.085
960.000	775830.902	7486531.922
980.000	775850.879	7486532.824
1000.000	775870.780	7486534.789
1020.000	775890.547	7486537.815
1040.000	775910.126	7486541.886
1060.000	775929.459	7486546.997
1080.000	775948.493	7486553.132
1100.000	775967.172	7486560.272
1120.000	775985.444	7486568.398
1140.000	776003.257	7486577.487
1160.000	776020.560	7486587.512
1180.000	776037.305	7486598.445

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE

COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
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email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 03/05/18
DESIGN: ASC DATE: 03/05/18

AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH680-CH1180

FILL NO: G1706-02-HR3.DWG
JOB NO: G1706/02

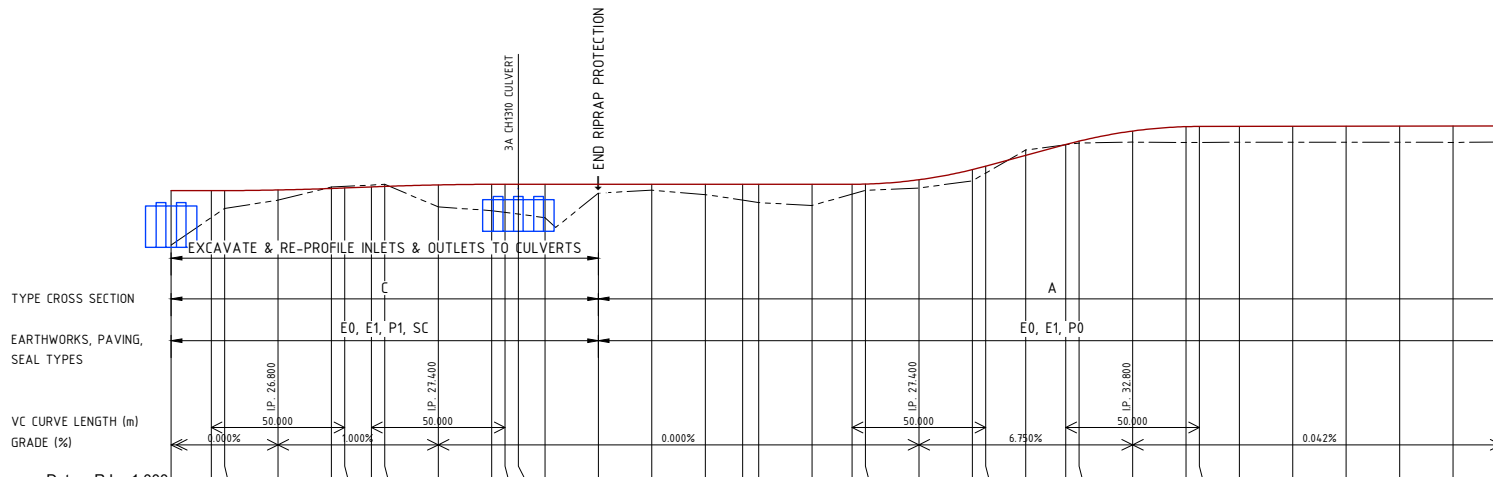
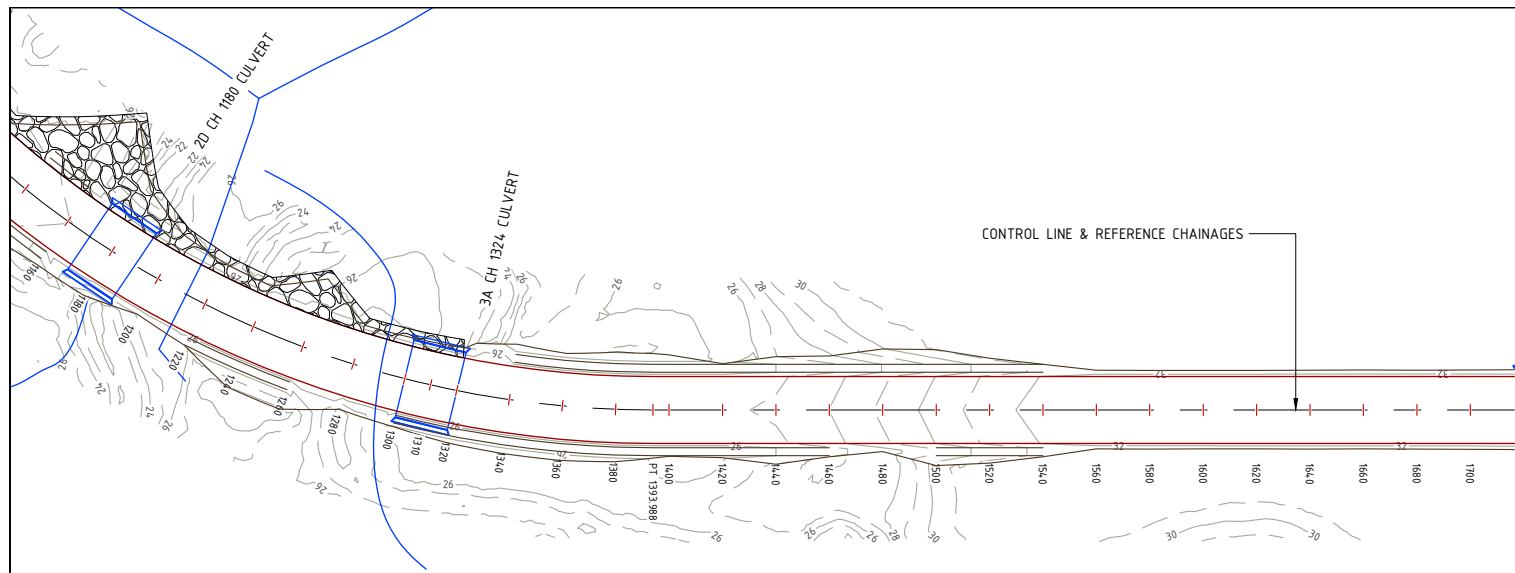
SCALE: 0 12000 HORZ 40 AT A3 SIZE
0 1500 VERT 10

DRAWING NUMBER: G1706-02-HR-5
ISSUE: 2
SHEET NO: 6

PRINT IN COLOUR

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DEPTH	FSL	NSL	CHAINAGE
180.000	26.800	21.696	1180.000
1195.000	26.800	21.137	1195.000
1200.000	26.803	21.090	1200.000
1220.000	26.863	21.198	1220.000
1240.000	27.003	21.387	1240.000
1245.000	27.090	21.450	1245.000
1255.000	27.150	21.519	1255.000
1260.000	27.198	21.579	1260.000
1280.000	27.338	21.719	1280.000
1300.000	27.397	21.807	1300.000
1305.000	27.400	21.841	1305.000
1310.000	27.400	21.881	1310.000
1320.000	27.400	21.926	1320.000
1340.000	27.400	21.983	1340.000
1360.000	27.400	21.983	1360.000
1380.000	27.400	21.983	1380.000
1393.988	27.400	21.983	1393.988
1400.000	27.400	21.983	1400.000
1420.000	27.400	21.983	1420.000
1435.000	27.400	21.983	1435.000
1440.000	27.417	21.983	1440.000
1460.000	27.822	21.047	1460.000
1480.000	28.767	29.087	1480.000
1485.000	29.087	30.100	1485.000
1500.000	30.100	31.112	1500.000
1515.000	31.112	31.433	1515.000
1520.000	31.433	32.381	1520.000
1540.000	32.381	32.792	1540.000
1560.000	32.792	32.810	1560.000
1565.000	32.810	32.817	1565.000
1580.000	32.817	32.825	1580.000
1600.000	32.825	32.833	1600.000
1620.000	32.833	32.842	1620.000
1640.000	32.842	32.850	1640.000
1660.000	32.850	32.858	1660.000
1680.000	32.858	32.851	1680.000

CHAINAGE	EASTING	NORTHING
1180.000	776037.305	7486598.445
1200.000	776053.442	7486610.256
1220.000	776068.927	7486622.910
1240.000	776083.716	7486636.371
1260.000	776097.765	7486650.601
1280.000	776111.037	7486665.561
1300.000	776123.492	7486681.206
1310.000	776129.402	7486689.272
1320.000	776135.095	7486697.493
1340.000	776145.813	7486714.376
1360.000	776155.616	7486731.806
1380.000	776164.477	7486749.733
1393.988	776170.099	7486762.540
1400.000	776172.413	7486768.090
1420.000	776180.110	7486786.549
1440.000	776187.807	7486805.009
1460.000	776195.504	7486823.469
1480.000	776203.201	7486841.928
1500.000	776210.898	7486860.388
1520.000	776218.595	7486878.847
1540.000	776226.291	7486897.307
1560.000	776233.988	7486915.767
1580.000	776241.685	7486934.226
1600.000	776249.382	7486952.686
1620.000	776257.079	7486971.145
1640.000	776264.776	7486989.605
1660.000	776272.473	7487008.065
1680.000	776280.170	7487026.524

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
AHD; CONTOURS 0.1m FINISHED
SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 03/05/18
DESIGN: ASC DATE: 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321
APPROVED FOR ISSUE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH1180-CH1680

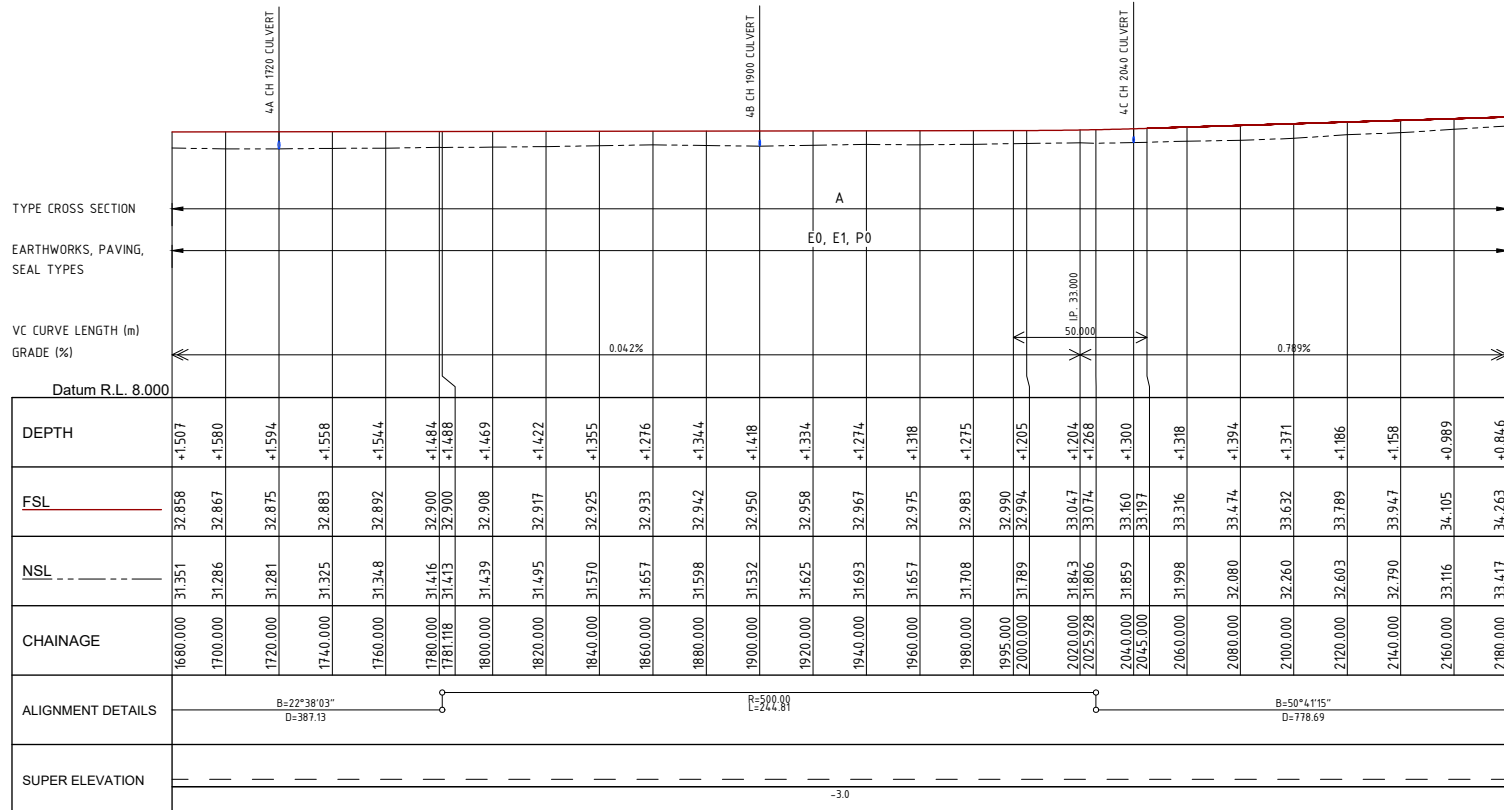
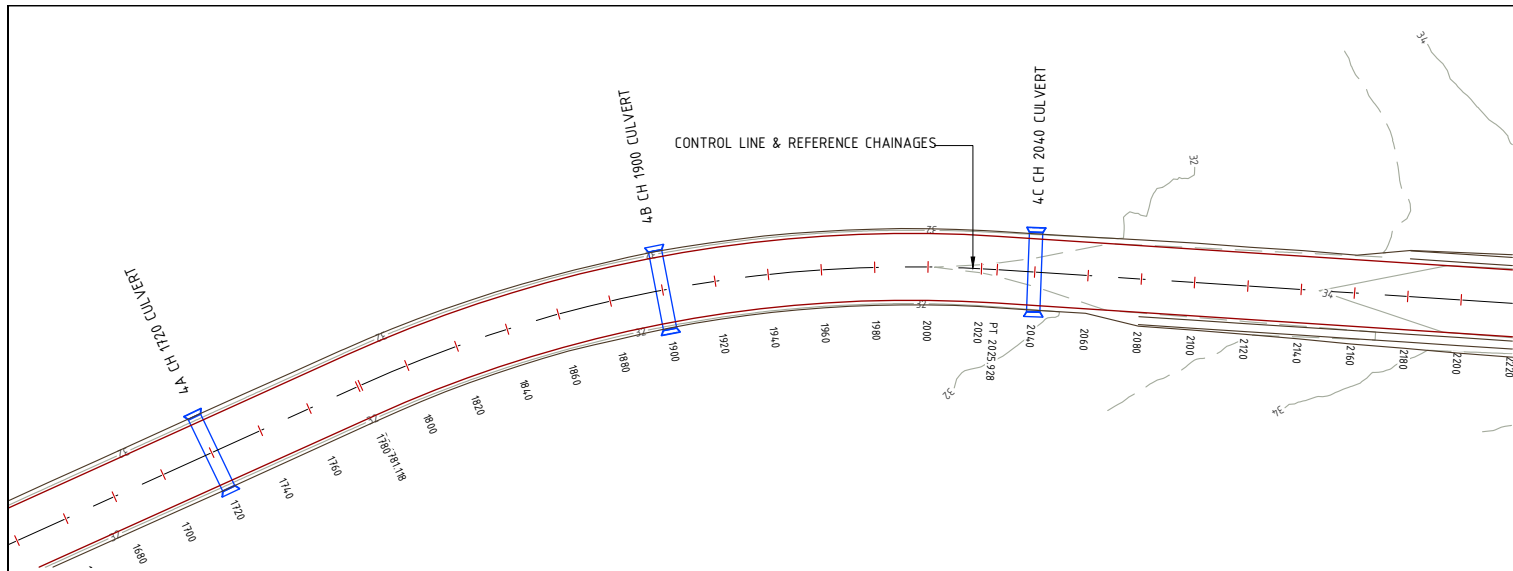
FILL NO: G1706-02-HR3.DWG
JOB NO: G1706/02

SCALE: 0 12000 HORZ 40 AT A3 SIZE
0 1500 VERT 10

DRAWING NUMBER: G1706-02-HR-6
ISSUE: 2
SHEET NO: 7

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CHAINAGE	EASTING	NORTHING
1680.000	776280.170	7487026.524
1700.000	776287.867	7487044.984
1720.000	776295.564	7487063.444
1740.000	776303.261	7487081.903
1760.000	776310.958	7487100.363
1780.000	776318.655	7487118.822
1800.000	776326.352	7487137.281
1820.000	776334.049	7487155.740
1840.000	776341.746	7487174.199
1860.000	776349.443	7487192.658
1880.000	776357.140	7487211.117
1900.000	776364.837	7487229.576
1920.000	776372.534	7487248.035
1940.000	776380.231	7487266.494
1960.000	776387.928	7487284.953
1980.000	776395.625	7487303.412
2000.000	776403.322	7487321.871
2020.000	776411.019	7487340.330
2040.000	776418.716	7487358.789
2060.000	776426.413	7487377.248
2080.000	776434.110	7487395.707
2100.000	776441.807	7487414.166
2120.000	776449.504	7487432.625
2140.000	776457.201	7487451.084
2160.000	776464.898	7487469.543
2180.000	776472.595	7487488.002

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
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MACKAY

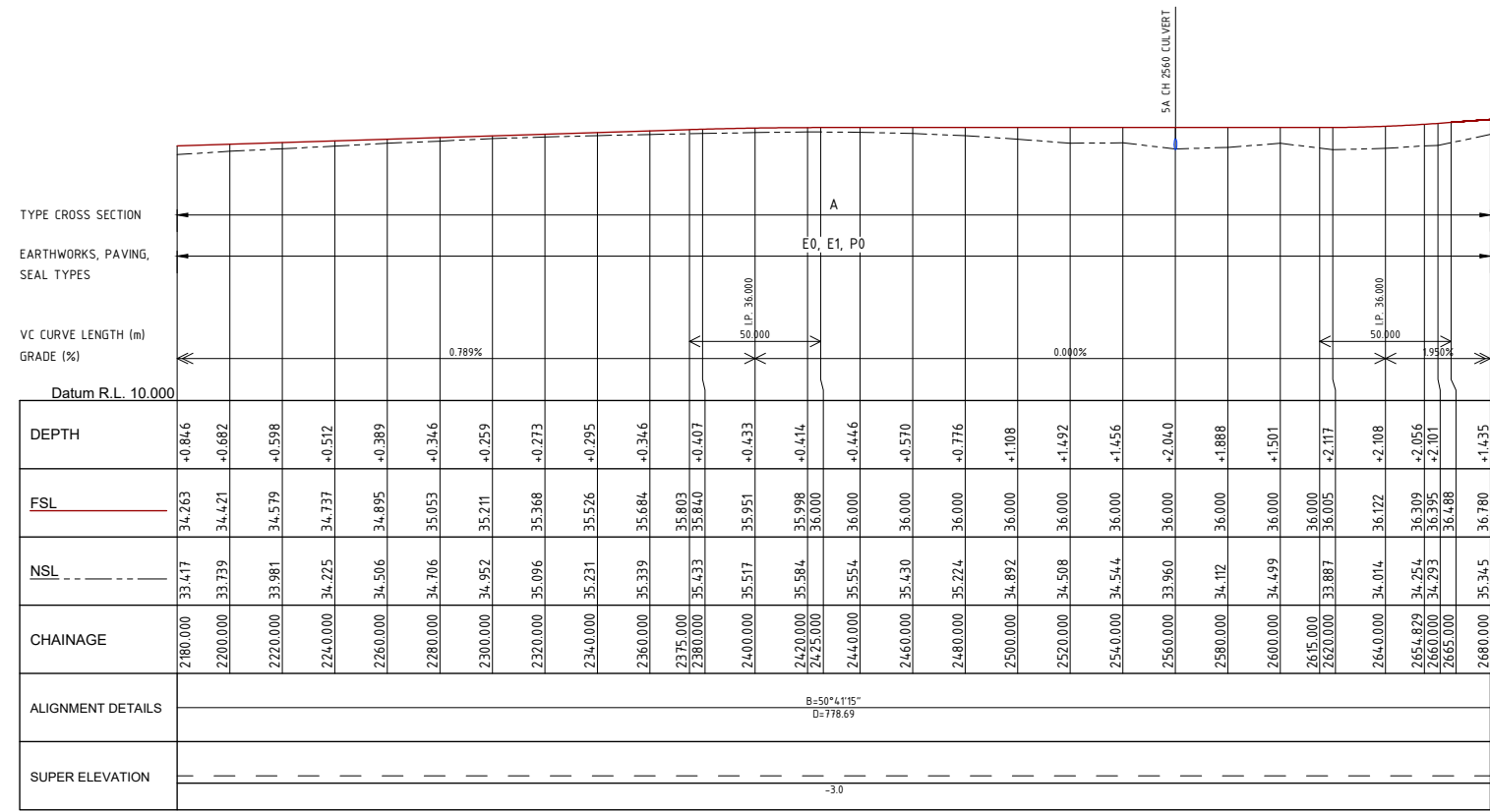
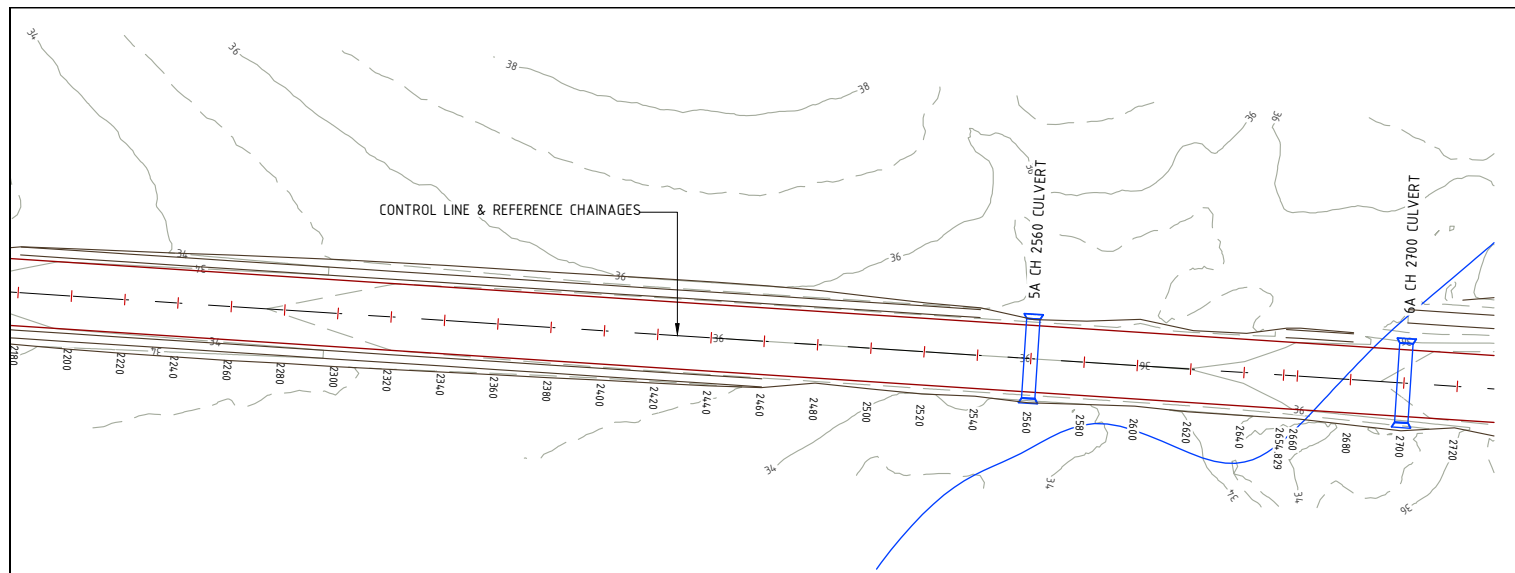
RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH1680-CH2180

TITLE NO: G1706-02-HR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORZ 40 AT 1:500 VERT 10 A3 SIZE
DRAWING NUMBER: G1706-02-HR-7
ISSUE: 2
SHEET NO: 8

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CHAINAGE	EASTING	NORTHING
2180.000	776583.005	7487411.894
2200.000	776598.479	7487424.565
2220.000	776613.953	7487437.236
2240.000	776629.427	7487449.907
2260.000	776644.901	7487462.578
2280.000	776660.375	7487475.249
2300.000	776675.849	7487487.920
2320.000	776691.323	7487500.591
2340.000	776706.797	7487513.262
2360.000	776722.271	7487525.933
2380.000	776737.745	7487538.604
2400.000	776753.219	7487551.275
2420.000	776768.693	7487563.946
2440.000	776784.167	7487576.617
2460.000	776799.641	7487589.288
2480.000	776815.115	7487601.959
2500.000	776830.589	7487614.630
2520.000	776846.063	7487627.301
2540.000	776861.537	7487639.972
2560.000	776877.011	7487652.643
2580.000	776892.485	7487665.314
2600.000	776907.960	7487677.985
2620.000	776923.434	7487690.656
2640.000	776938.908	7487703.327
2654.829	776950.381	7487712.722
2660.000	776954.382	7487715.988
2680.000	776969.856	7487728.669

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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ISSUE DATE	SUBJECT	AUTHORITY
18/04/18	FIRST ISSUE	EK
8/08/18	FINAL DESIGN	EK

DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

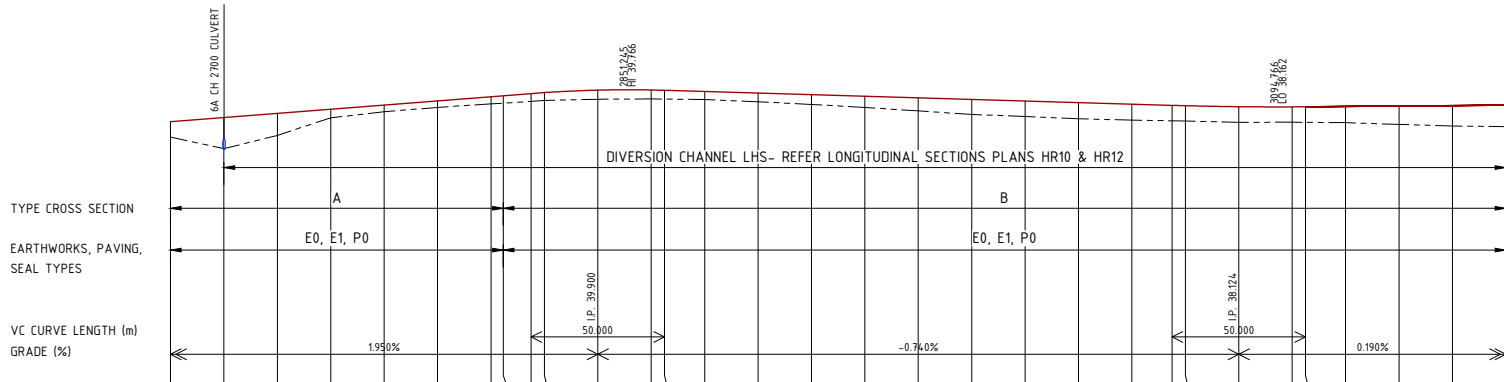
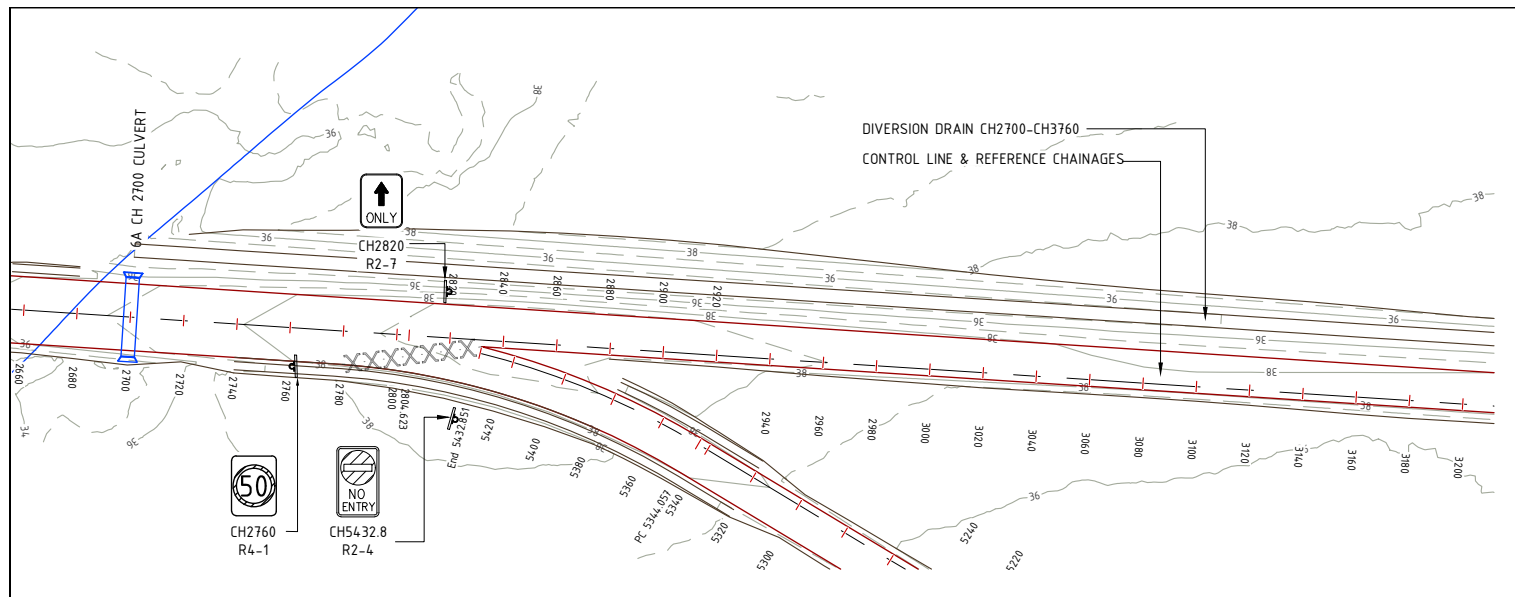
RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH2180-CH2680

FILL NO: G1706-02-HR3.DWG
JOB NO: G1706/02
SCALE: 0 12000 HORZ 40 AT A3 SIZE
0 1500 VERT 10
DRAWING NUMBER: G1706-02-HR-8
ISSUE SHEET NO: 2 9

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Datum R.L. 11.000	
DEPTH	+1.435 +2.919 +2.063 +0.810 +0.631 +0.613 +0.667 +0.708 +0.733 +0.849 +0.836 +0.752 +0.809 +0.911 +1.049 +1.225 +1.408 +1.450 +1.525 +1.492 +1.437 +1.463 +1.434 +1.517 +1.711 +1.899 +2.004
FSL	36.780 37.170 37.560 37.950 38.340 38.730 39.120 39.510 39.903 39.732 39.745 39.715 39.604 39.456 39.308 39.160 39.012 38.864 38.716 38.568 38.420 38.309 38.274 38.182 38.164 38.172 38.200 38.238 38.276 38.314
NSL	35.345 34.251 35.497 37.140 37.709 38.117 38.453 38.502 38.771 38.883 38.909 38.852 38.647 38.397 38.111 37.787 37.456 37.266 37.043 36.928 36.837 36.719 36.731 36.837 36.683 36.577 36.378 36.310
CHAINAGE	2680.000 2700.000 2720.000 2740.000 2760.000 2780.000 2800.000 2804.623 2815.000 2820.000 2840.000 2860.000 2865.000 2880.000 2900.000 2920.000 2940.000 2960.000 2980.000 3000.000 3020.000 3040.000 3055.000 3060.000 3080.000 3100.000 3105.000 3120.000 3140.000 3160.000 3180.000
ALIGNMENT DETAILS	B=50°41'15" D=778.69 B=50°41'15" D=1038.28
SUPER ELEVATION	

CONTROL LINE SETOUT		
CHAINAGE	EASTING	NORTHING
2680.000	776969.856	7487728.669
2700.000	776985.330	7487741.340
2720.000	777000.804	7487754.011
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2760.000	777031.752	7487779.353
2780.000	777047.226	7487792.024
2800.000	777062.700	7487804.695
2804.623	777066.276	7487807.624
2820.000	777078.174	7487817.366
2840.000	777093.648	7487830.037
2860.000	777109.122	7487842.708
2880.000	777124.596	7487855.379
2900.000	777140.070	7487868.050
2920.000	777155.544	7487880.721
2940.000	777171.018	7487893.392
2960.000	777186.492	7487906.063
2980.000	777201.966	7487918.734
3000.000	777217.440	7487931.406
3020.000	777232.914	7487944.077
3040.000	777248.388	7487956.748
3060.000	777263.862	7487969.419
3080.000	777279.336	7487982.090
3100.000	777294.810	7487994.761
3120.000	777310.284	7488007.432
3140.000	777325.758	7488020.103
3160.000	777341.232	7488032.774
3180.000	777356.706	7488045.445

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
AHD; CONTOURS 0.1m FINISHED
SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
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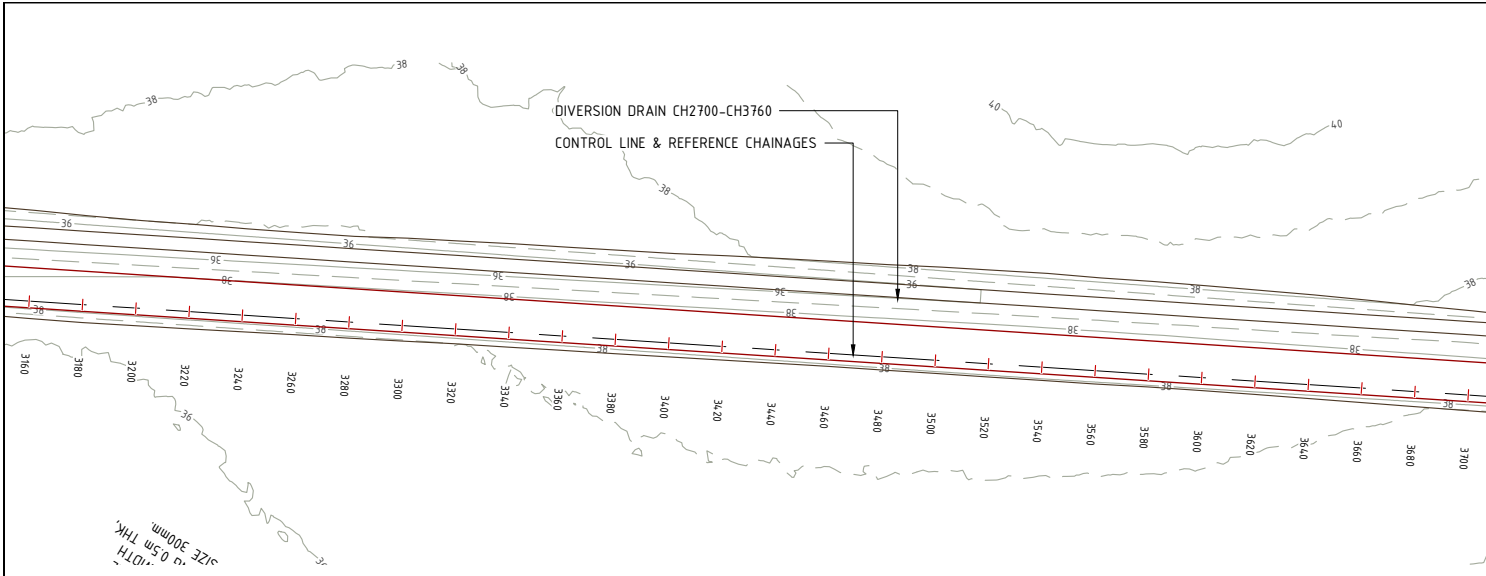
RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH2680-CH3180

FILL NO: G1706-02-HR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORZ 40 AT A3 SIZE
0 1:500 VERT 10
DRAWING NUMBER: G1706-02-HR-9
ISSUE: 2
SHEET NO: 10

PRINT IN COLOUR

E:\Jobs Current\Styx (G1706-02)\ACADIProduction\G1706-02-HR3 (Haul Road Plan & Sections).dwg, HR11-12, 12/08/2018 3:32:21 PM



DEPTH	3180.000	3200.000	3220.000	3240.000	3260.000	3280.000	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3515.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	
FSL	38.314	38.353	38.391	38.429	38.467	38.505	38.543	38.581	38.619	38.657	38.695	38.733	38.771	38.810	38.848	38.886	38.924	38.952	38.961	38.975	38.958	38.949	38.918	38.877	38.836	38.795	38.754	38.713
NSL	36.310	36.385	36.448	36.569	36.657	36.752	36.905	37.033	37.082	37.195	37.278	37.367	37.463	37.536	37.628	37.686	37.741	37.744	37.744	37.775	37.770	37.804	37.743	37.637	37.509	37.374	37.199	37.154
CHAINAGE	3180.000	3200.000	3220.000	3240.000	3260.000	3280.000	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3515.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	
ALIGNMENT DETAILS	B=50*4'15" D=1038.28																											
SUPER ELEVATION	-3.0																											

Scale Horizontal 1:2000 Vertical 1:500

CHAINAGE	EASTING	NORTHING
3180.000	777356.706	7488045.445
3200.000	777372.180	7488058.116
3220.000	777387.654	7488070.787
3240.000	777403.128	7488083.458
3260.000	777418.602	7488096.129
3280.000	777434.076	7488108.800
3300.000	777449.550	7488121.471
3320.000	777465.024	7488134.142
3340.000	777480.498	7488146.813
3360.000	777495.972	7488159.484
3380.000	777511.446	7488172.155
3400.000	777526.920	7488184.826
3420.000	777542.394	7488197.497
3440.000	777557.868	7488210.168
3460.000	777573.342	7488222.839
3480.000	777588.816	7488235.510
3500.000	777604.290	7488248.181
3520.000	777619.764	7488260.852
3540.000	777635.238	7488273.523
3560.000	777650.712	7488286.194
3580.000	777666.186	7488298.865
3600.000	777681.660	7488311.536
3620.000	777697.134	7488324.207
3640.000	777712.608	7488336.878
3660.000	777728.083	7488349.549
3680.000	777743.557	7488362.220

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
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email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE NO	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MOB: 0417187149
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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH3180-CH3680

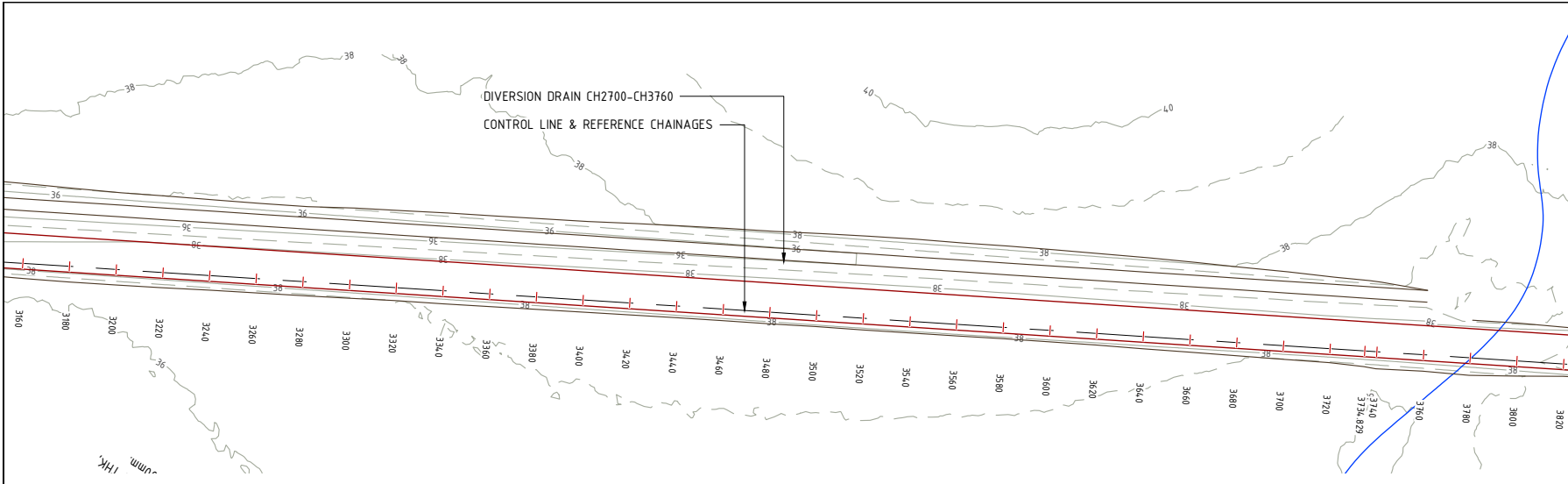
FILL NO: G1706-02-HR3.DWG
JOB NO: G1706/02

SCALE: 0 1:2000 HORZ 40 AT A3 SIZE
0 1:500 VERT 10

DRAWING NUMBER: G1706-02-HR-11 2 12

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DEPTH	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	3700.000	3720.000	3734.829	3740.000	3760.000	
INVERT FSL	35.472	35.521	35.570	35.619	35.668	35.717	35.766	35.815	35.864	35.913	35.962	36.011	36.060	36.109	36.158	36.208	36.257	36.306	36.355	36.404	36.453	36.502	36.538	36.551	36.600	
INVERT NSL	37.137	37.231	37.312	37.394	37.488	37.571	37.652	37.733	37.814	37.895	37.976	38.057	38.138	38.219	38.300	38.381	38.462	38.543	38.624	38.705	38.786	38.867	38.948	39.029	39.110	39.191
CHAINAGE	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	3700.000	3720.000	3734.829	3740.000	3760.000	

TYPE CROSS SECTION
 EARTHWORKS, PAVING,
 SEAL TYPES
 VC CURVE LENGTH (m)
 GRADE (%)

Datum R.L. 6.000

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
 AHD; CONTOURS 0.1m FINISHED
 SURFACE



COX ANDREWS ENGINEERS PTL
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	TITLE
DRAWING NO. G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
 DESIGN: ASC DATE 03/05/18



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CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 HAUL ROAD
 PLAN & LONGITUDINAL SECTIONS
 DIVERSION DRAIN CH3300-CH3760

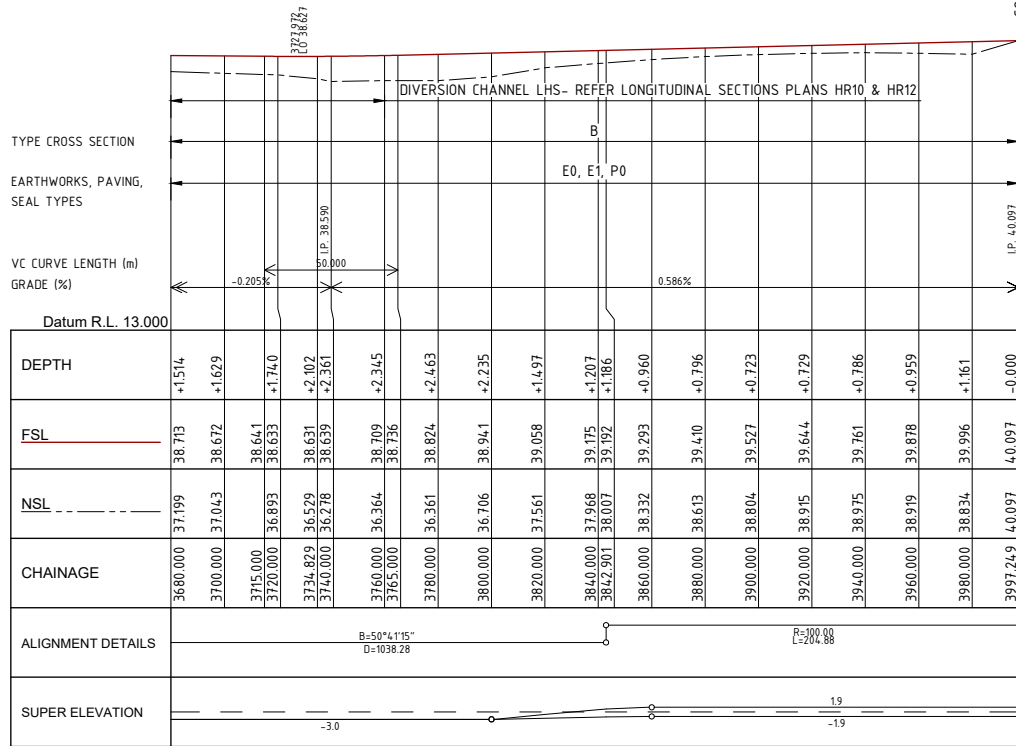
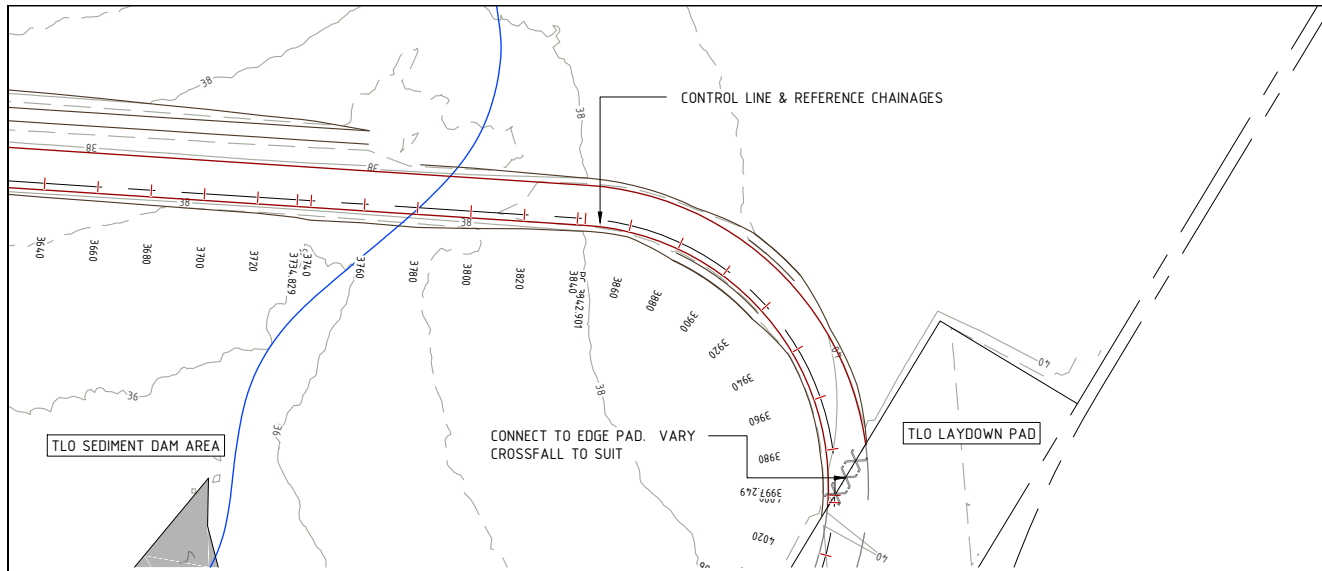
FILL NO: G1706-02-HR3.DWG
 JOB NO: G1706/02

SCALE: 0 12000 HORZ 40 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-HR-12
 ISSUE: 2
 SHEET NO: 13

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Scale Horizontal 1:2000 Vertical 1:500

CHAINAGE	EASTING	NORTHING
3680.000	777743.557	7488362.220
3700.000	777759.031	7488374.891
3720.000	777774.505	7488387.562
3734.829	777785.978	7488396.957
3740.000	777789.979	7488400.233
3760.000	777805.453	7488412.904
3780.000	777820.927	7488425.575
3800.000	777836.401	7488438.246
3820.000	777851.875	7488450.917
3840.000	777867.349	7488463.588
3842.901	777869.593	7488465.426
3860.000	777883.682	7488475.078
3880.000	777901.953	7488483.131
3900.000	777921.459	7488487.394
3920.000	777941.424	7488487.696
3940.000	777961.050	7488484.027
3960.000	777979.556	7488476.531
3980.000	777996.204	7488465.507
3997.249	778008.559	7488453.501

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SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.1m FINISHED SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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ISSUE DATE	SUBJECT	AUTHORITY
18/04/18	FIRST ISSUE	EK
8/08/18	FINAL DESIGN	EK

XREF FILES	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
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EMAIL: amec1@bigpond.net.au
MACKAY

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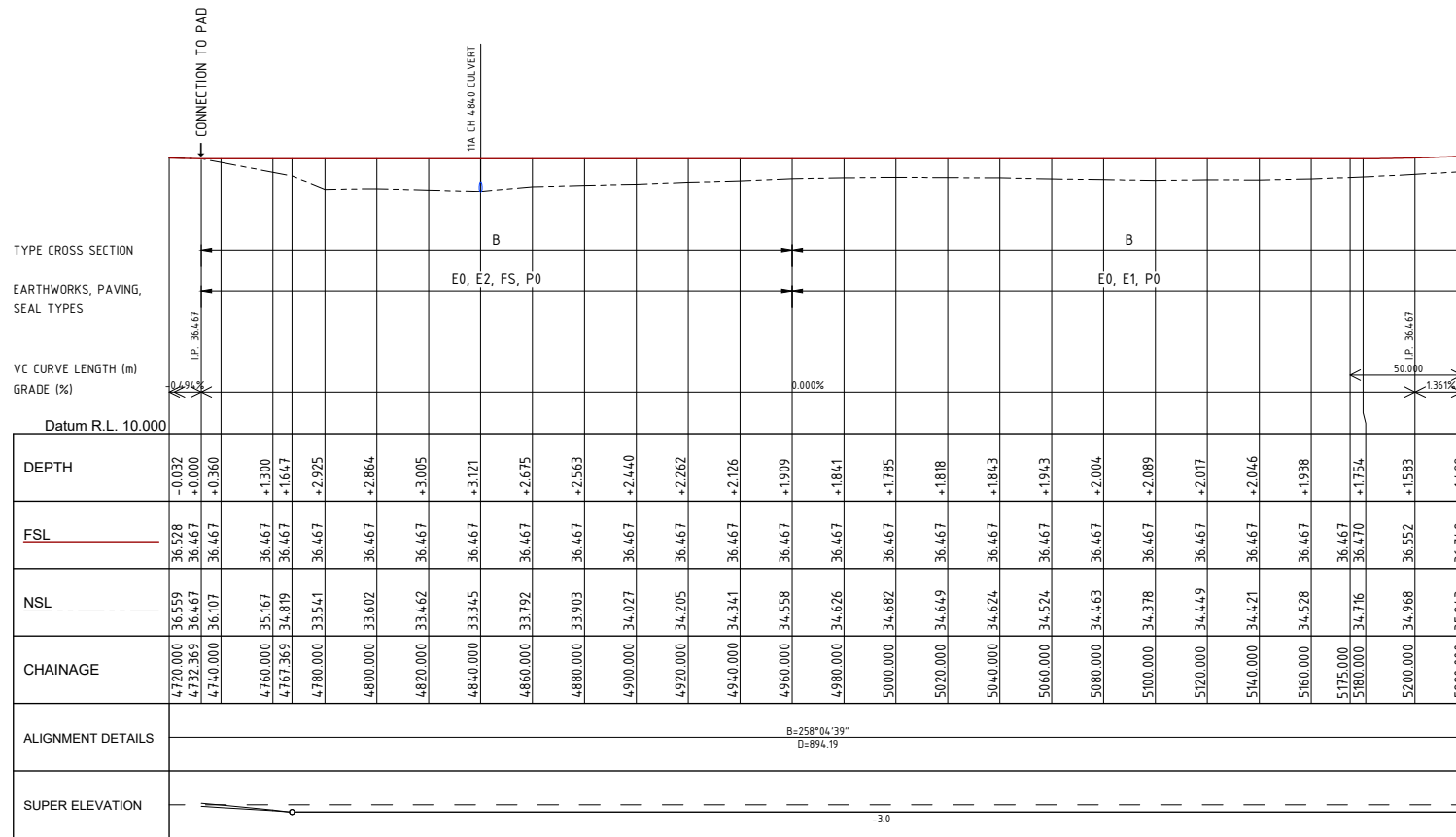
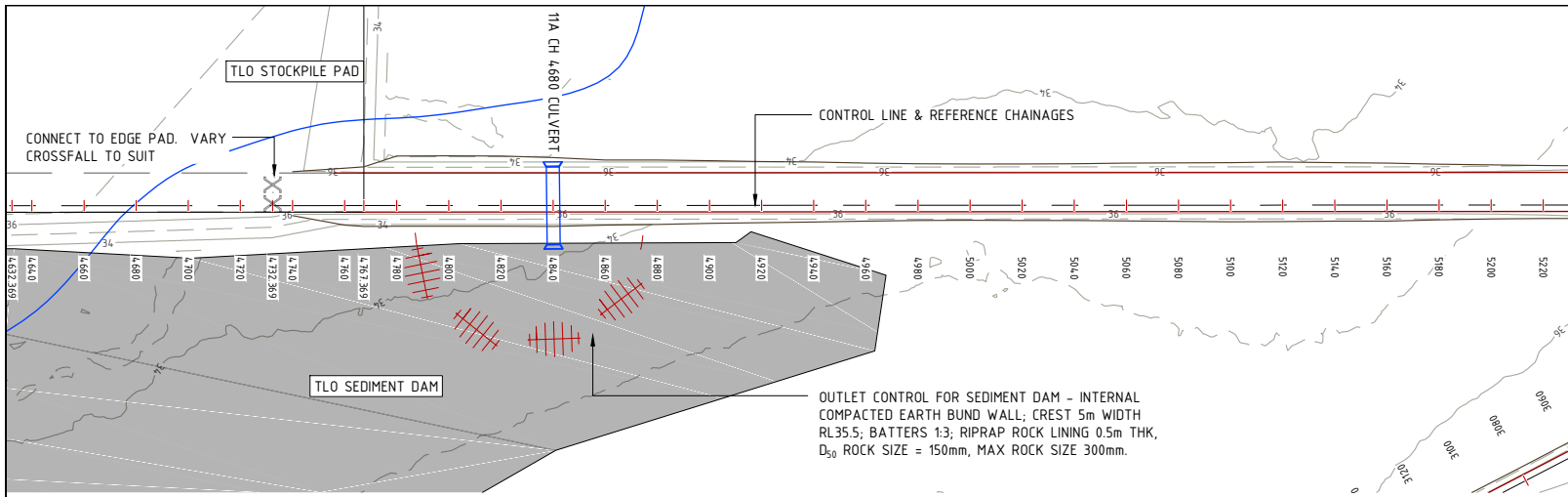
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH3680-CH3997.249

TITLE NO: G1706-02-HR3.DWG
JOB NO: G1706/02
SCALE: 0 1:2000 HORZ 40 AT A3 SIZE
0 1:500 VERT 10

DRAWING NUMBER: G1706-02-HR-13
ISSUE: 2
SHEET NO: 14

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TYPE CROSS SECTION
EARTHWORKS, PAVING, SEAL TYPES
VC CURVE LENGTH (m)
GRADE (%)

DEPTH	FSL	NSL	CHAINAGE	ALIGNMENT DETAILS	SUPER ELEVATION
0.032	36.528	36.559	4720.000	B=258*04.39° D=894.19	-
0.000	36.467	36.467	4732.369		
0.360	36.467	36.107	4740.000		
1.300	36.467	35.167	4760.000		
1.647	36.467	34.819	4767.369		
2.295	36.467	33.541	4780.000		
2.864	36.467	33.602	4800.000		
3.005	36.467	33.462	4820.000		
3.121	36.467	33.345	4840.000		
2.675	36.467	33.792	4860.000		
2.563	36.467	33.903	4880.000		
2.440	36.467	34.027	4900.000		
2.262	36.467	34.205	4920.000		
2.126	36.467	34.341	4940.000		
1.909	36.467	34.558	4960.000		
1.841	36.467	34.626	4980.000		
1.785	36.467	34.682	5000.000		
1.818	36.467	34.649	5020.000		
1.843	36.467	34.624	5040.000		
1.943	36.467	34.524	5060.000		
2.004	36.467	34.463	5080.000		
2.089	36.467	34.378	5100.000		
2.017	36.467	34.449	5120.000		
2.046	36.467	34.421	5140.000		
1.938	36.467	34.528	5160.000		
1.754	36.467	34.716	5175.000		
1.583	36.552	34.968	5180.000		
1.499	36.742	35.243	5200.000		
			5220.000		

CHAINAGE	EASTING	NORTHING
4732.369	777771.670	7487978.059
4740.000	777764.203	7487976.482
4760.000	777744.634	7487972.350
4767.369	777737.424	7487970.828
4780.000	777725.066	7487968.219
4800.000	777705.497	7487964.087
4820.000	777685.929	7487959.955
4840.000	777666.360	7487955.823
4860.000	777646.792	7487951.692
4880.000	777627.223	7487947.560
4900.000	777607.654	7487943.428
4920.000	777588.086	7487939.296
4940.000	777568.517	7487935.165
4960.000	777548.949	7487931.033
4980.000	777529.380	7487926.901
5000.000	777509.812	7487922.769
5020.000	777490.243	7487918.638
5040.000	777470.675	7487914.506
5060.000	777451.106	7487910.374
5080.000	777431.537	7487906.242
5100.000	777411.969	7487902.111
5120.000	777392.400	7487897.979
5140.000	777372.832	7487893.847
5160.000	777353.263	7487889.715
5180.000	777333.695	7487885.584
5200.000	777314.126	7487881.452
5220.000	777294.557	7487877.320

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
AHD; CONTOURS 0.1m FINISHED
SURFACE



**COX ANDREWS
ENGINEERS PTL**
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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ISSUE DATE	SUBJECT	AUTHORITY
18/04/18	FIRST ISSUE	EK
8/08/18	FINAL DESIGN	EK

DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 03/05/18
DESIGN ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

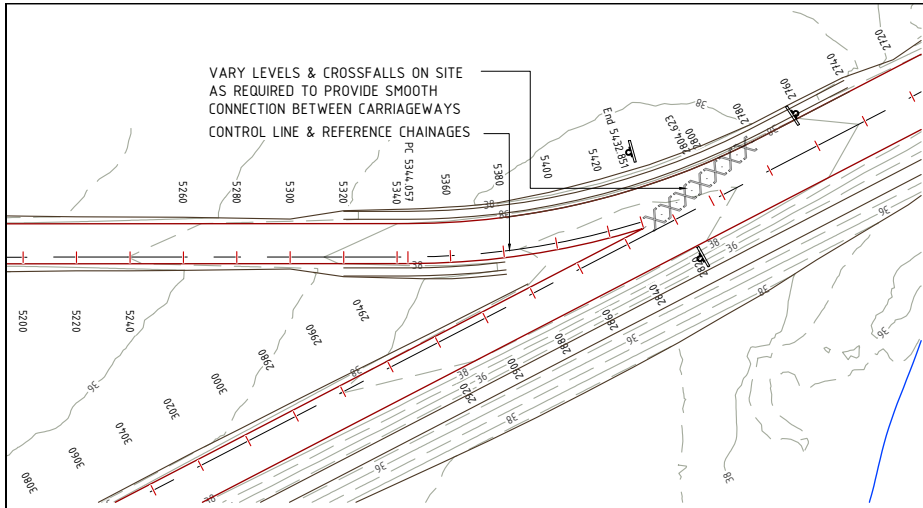
RPEQ 4321
APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
PLAN & LONGITUDINAL SECTIONS
HAUL ROAD CH4720-CH5220

FILL NO G1706-02-HR3.DWG
JOB NO G1706/02

SCALE 0 12000 HORZ 40 AT A3 SIZE
0 1500 VERT 10
DRAWING NUMBER G1706-02-HR-14 2 15

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TYPE CROSS SECTION

EARTHWORKS, PAVING, SEAL TYPES

VC CURVE LENGTH (m) 50.000
GRADE (%) 1.361%

Datum R.L. 12.000

DEPTH	FSL	NSL	CHAINAGE
+1.499	36.742	35.243	5270.000
+1.491	36.607	35.520	5275.000
+1.353	37.011	35.930	5280.000
+1.253	37.283	36.303	5285.000
+1.109	37.555	36.718	5290.000
+0.866	37.827	37.034	5295.000
+0.740	38.099	37.234	5300.000
+0.670	38.372	37.631	5305.000
+0.520	38.644	37.756	5310.000
+0.474	38.916	38.124	5315.000
+0.478	39.188	38.442	5320.000
+0.689	39.460	38.710	5325.000
+0.823	39.732	38.978	5330.000

CONTROL LINE SETOUT		
CHAINAGE	EASTING	NORTHING
5240.000	777274.989	7487873.188
5260.000	777255.420	7487869.057
5280.000	777235.852	7487864.925
5300.000	777216.283	7487860.793
5320.000	777196.715	7487856.661
5340.000	777177.146	7487852.530
5344.057	777173.177	7487851.692
5360.000	777157.672	7487847.985
5380.000	777138.537	7487842.180

Scale Horizontal 1:2000 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
AHD; CONTOURS 0.1m FINISHED
SURFACE



COX ANDREWS
ENGINEERS PTL
CONSULTING ENGINEERS
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN ASC DATE 03/05/18

DESIGN ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

HAUL ROAD

PLAN & LONGITUDINAL SECTIONS

HAUL ROAD CH4720-CH5432.851

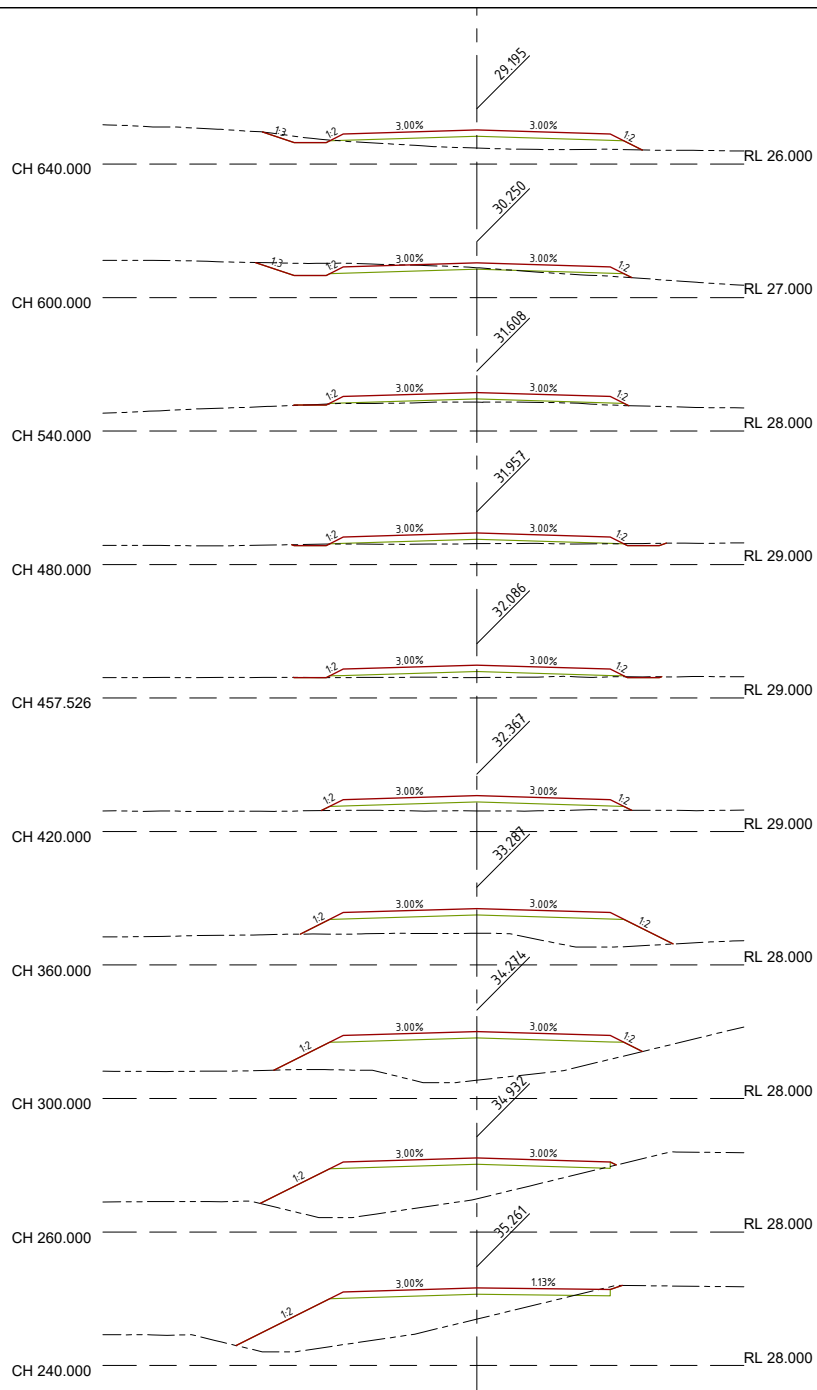
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JOB NO G1706/02

SCALE 0 1:2000 HORZ 40 AT A3 SIZE

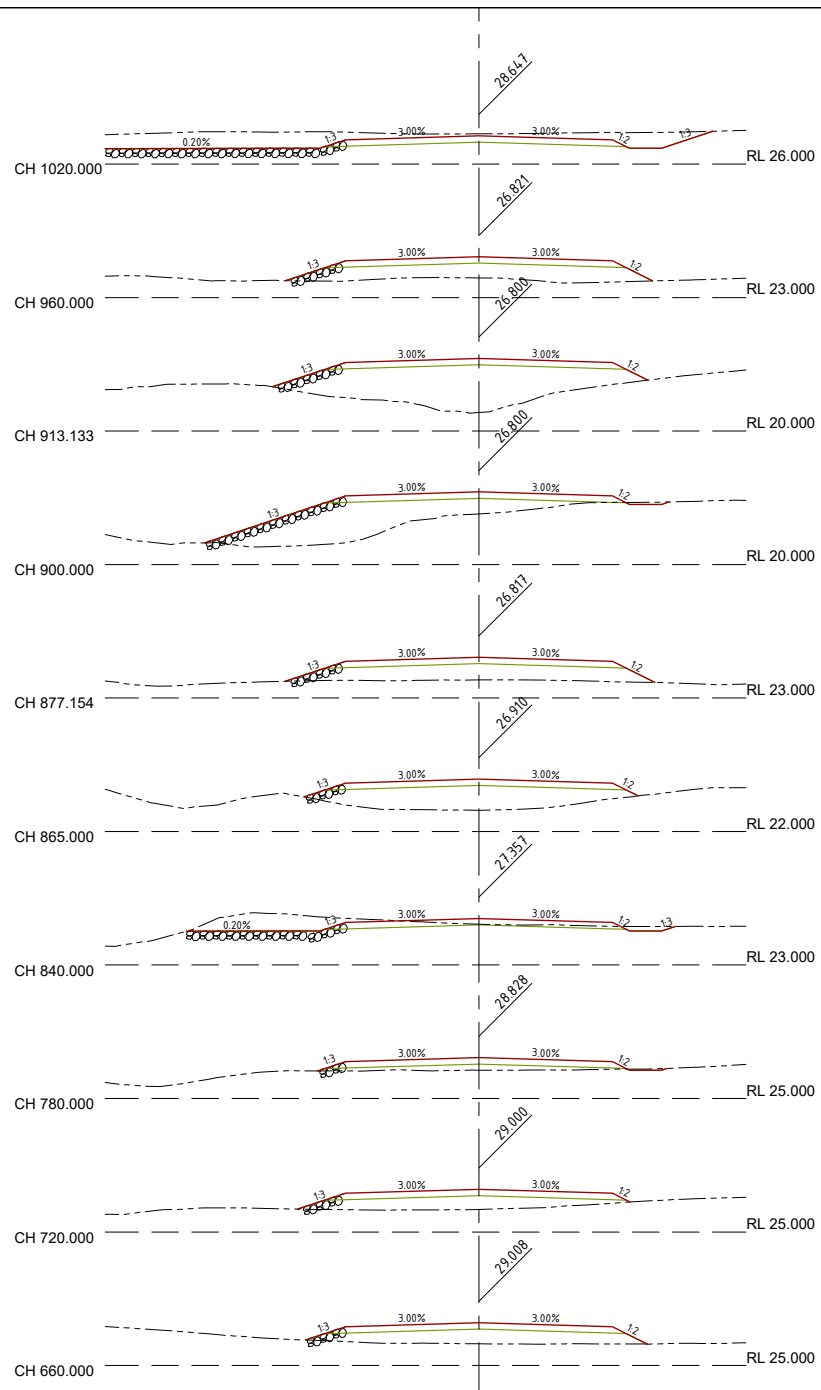
DRAWING NUMBER G1706-02-HR-15 2 16

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LEGEND	
	ROAD PROFILE
	SUBGRADE SURFACE
	NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



CH660 START RIPRAP PROTECTION WORKS

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SURVEY DATUM MGA55; LEVELS AHD



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
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XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 03/05/18

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RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 HAUL ROAD
 CROSS SECTIONS CH660-CH1020

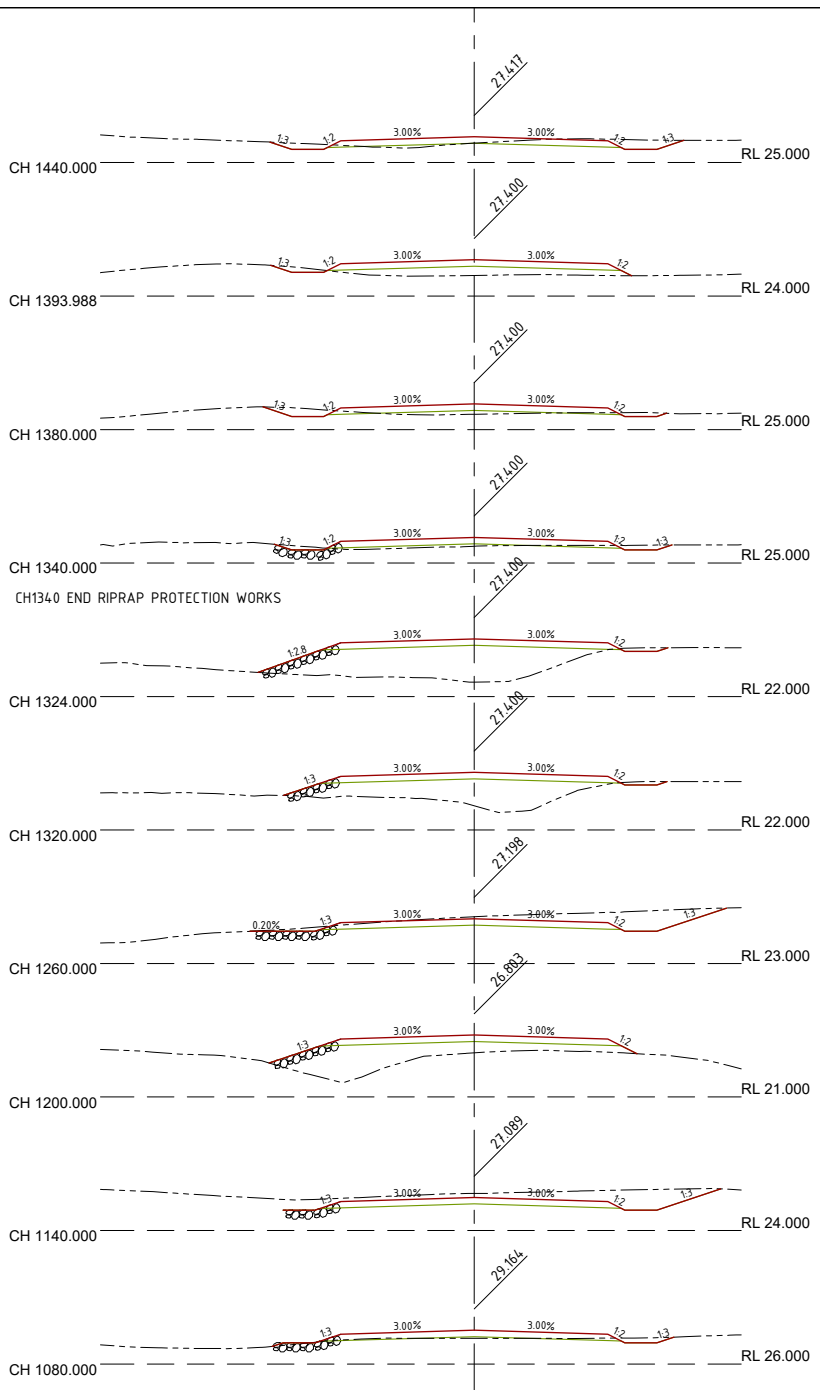
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SCALE: 0 1500 HORZ. 10 AT A3 SIZE
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DRAWING NUMBER: G1706-02-HR-16
 ISSUE: 2
 SHEET NO: 17

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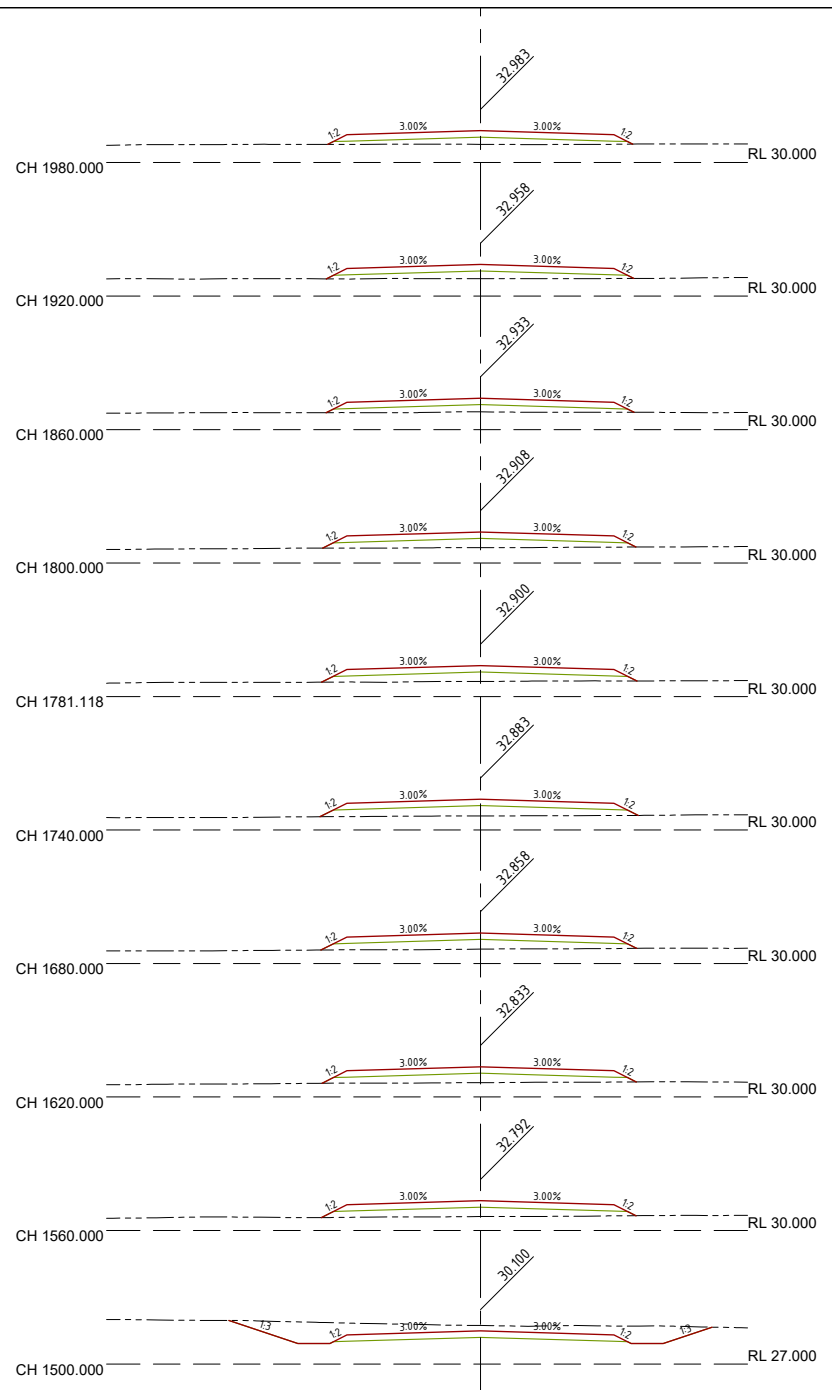
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LEGEND

- ROAD PROFILE
- SUBGRADE SURFACE
- - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 03/05/18
DESIGN: ASC DATE 03/05/18



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MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
CROSS SECTIONS CH1080-CH1980

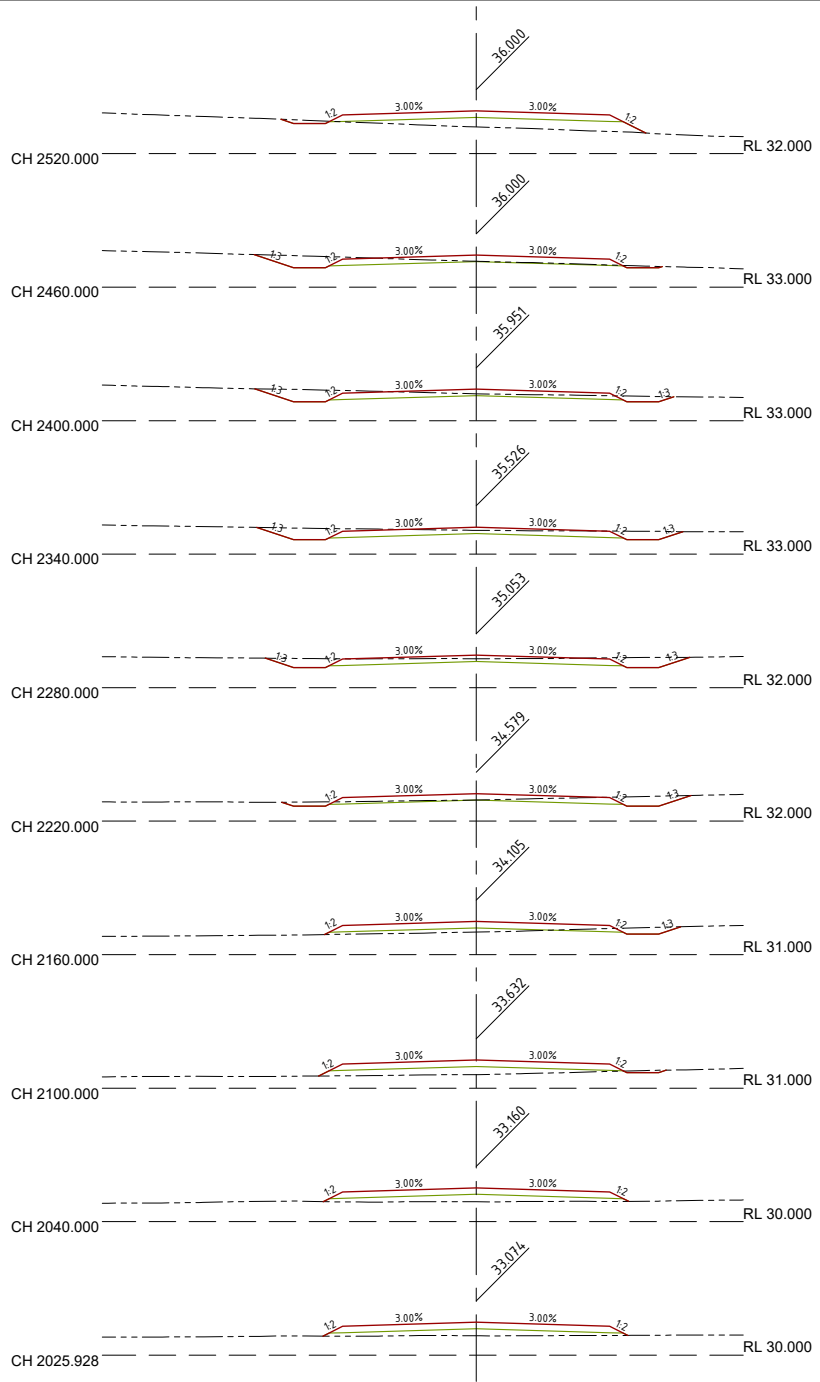
TITLE NO: G1706-02-HR3.DWG
JOB NO: G1706/02

SCALE: 0 1500 HORZ 10 AT A3 SIZE
0 1500 VERT 10

DRAWING NUMBER: G1706-02-HR-17 2 18

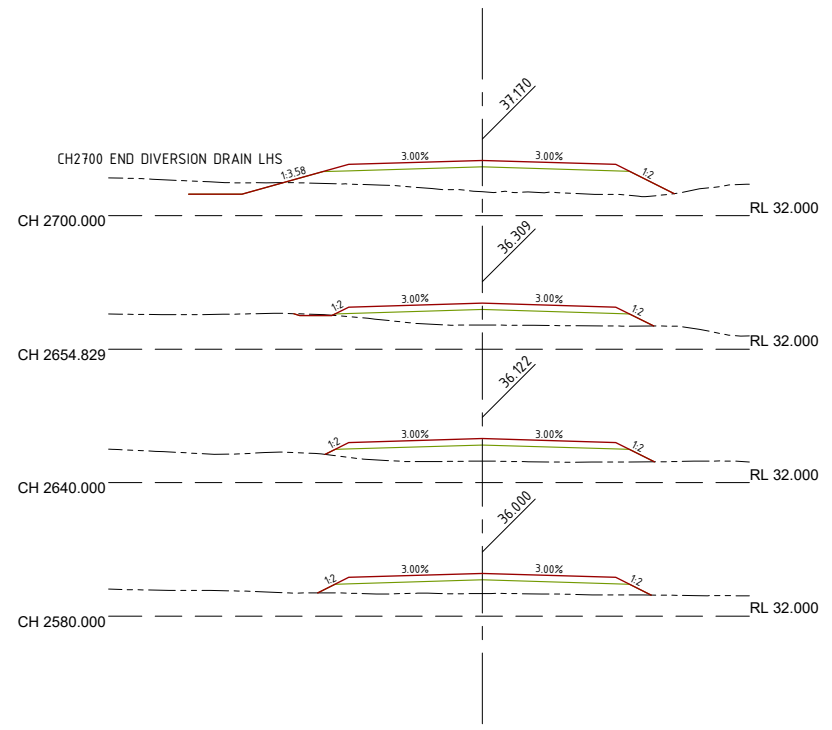
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LEGEND
 — ROAD PROFILE
 — SUBGRADE SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	8/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 03/05/18

DESIGN: ASC DATE 03/05/18



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MOB: 04 1718 714 9
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 HAUL ROAD
 CROSS SECTIONS
 CH2025.928-CH2700

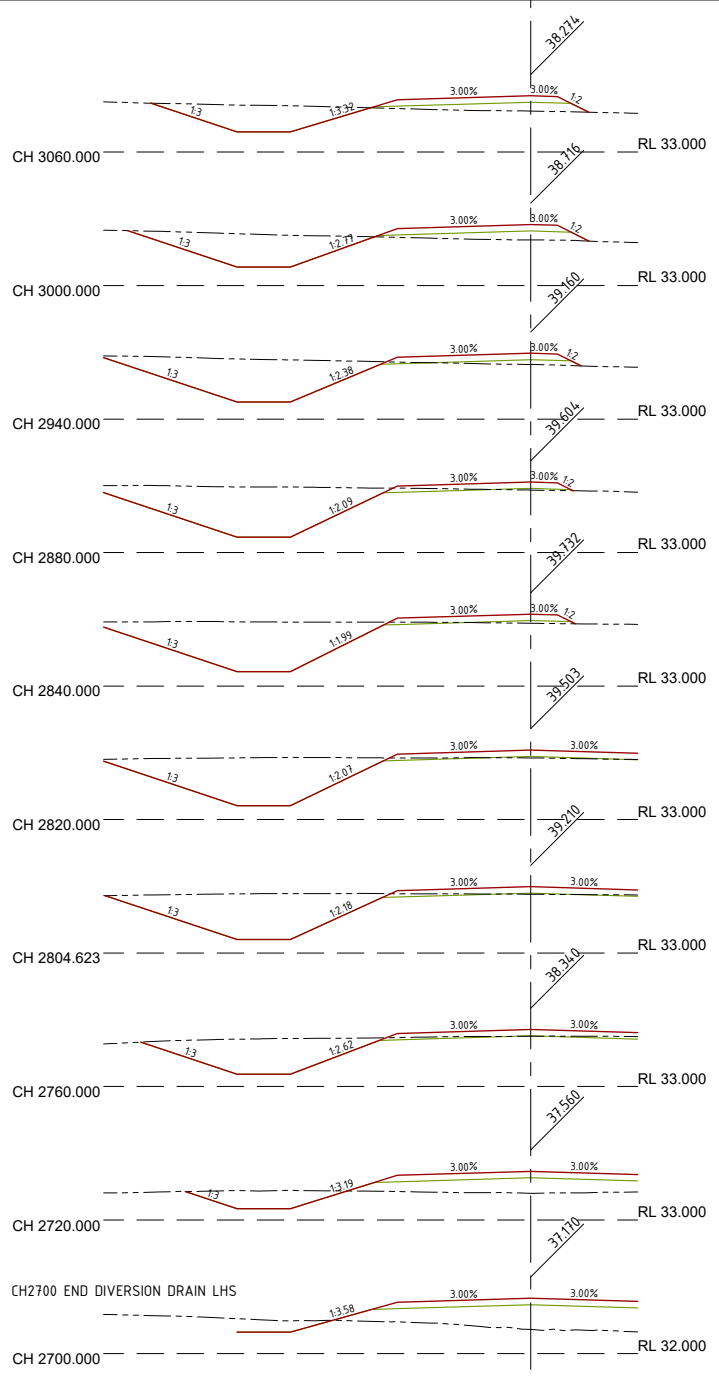
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 JOB NO: G1706/02

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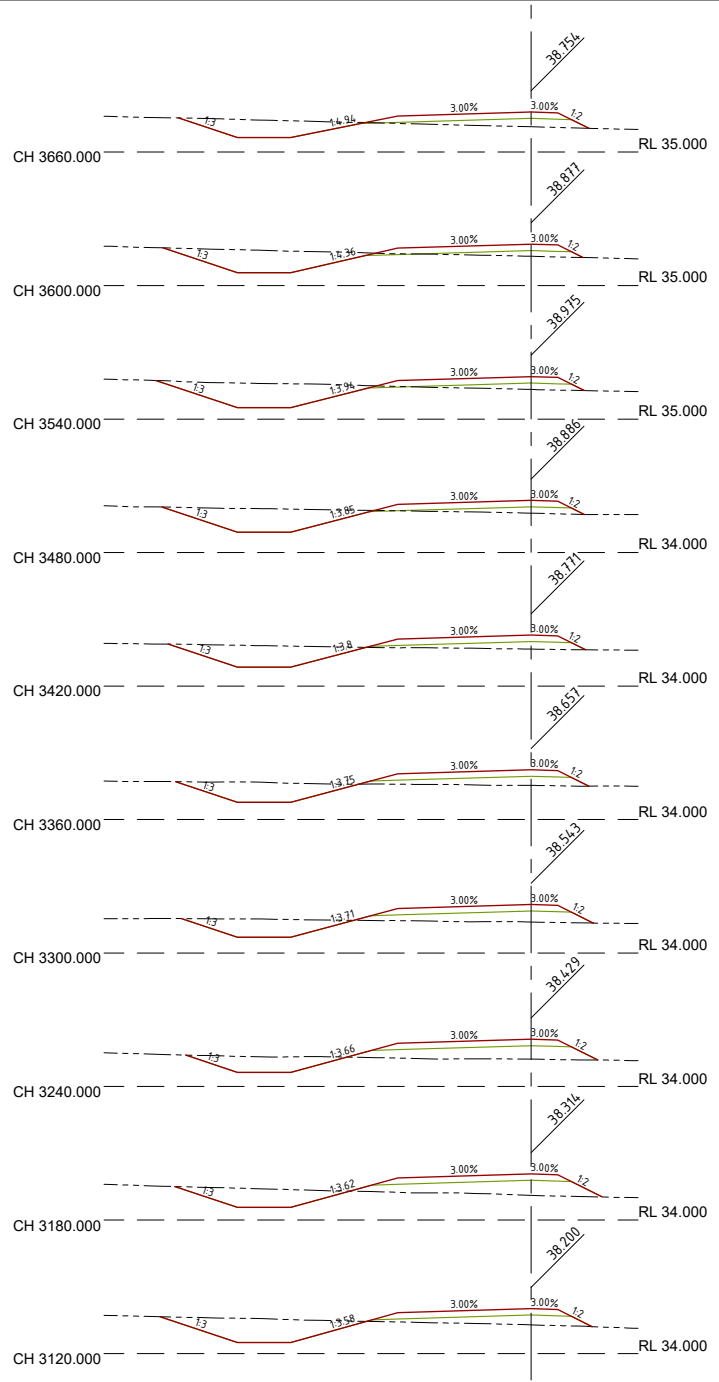
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LEGEND
 — ROAD PROFILE
 — SUBGRADE SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD



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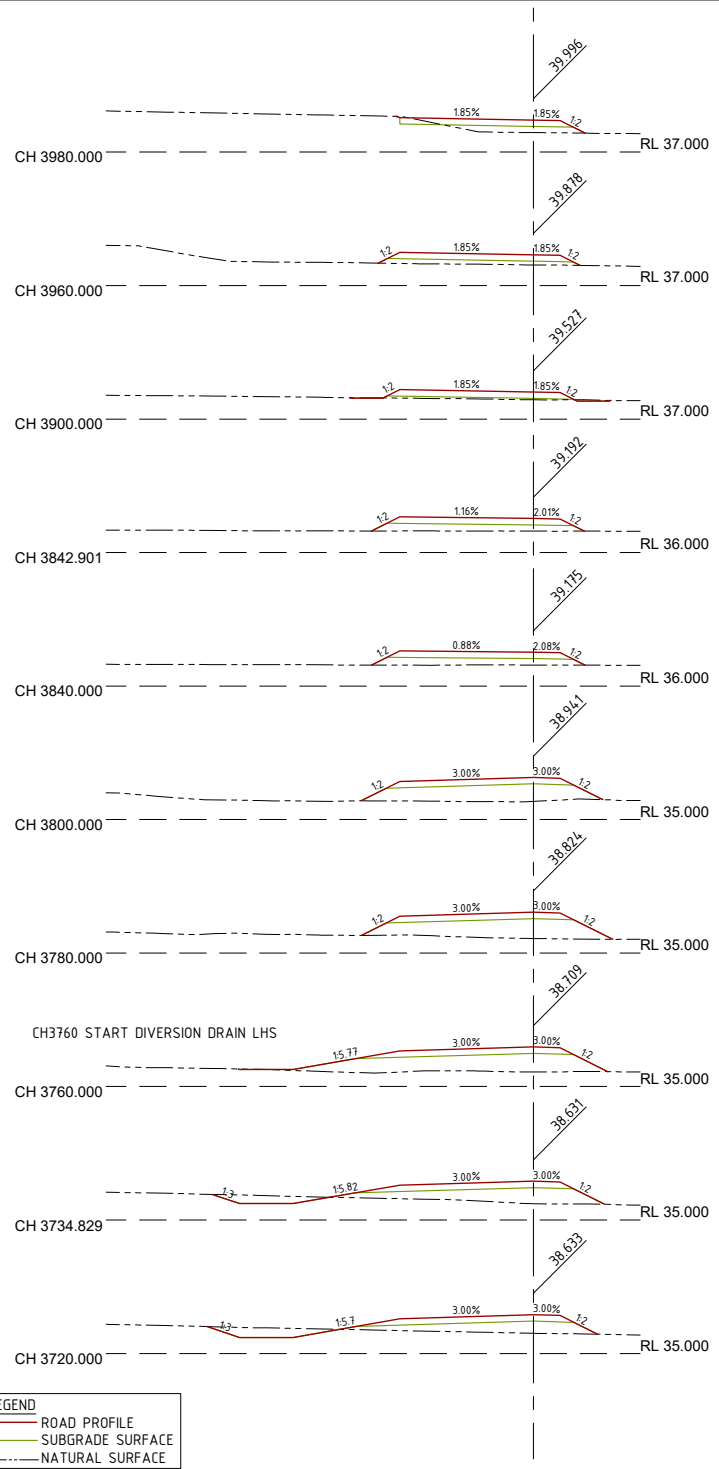
RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 HAUL ROAD
 CROSS SECTIONS CH2700-CH3660

TITLE NO	G1706-02-HR3.DWG
JOB NO	G1706/02
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ISSUE	2
SHEET NO	20

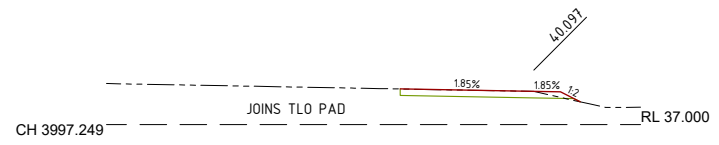
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LEGEND	
	ROAD PROFILE
	SUBGRADE SURFACE
	NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



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SURVEY DATUM MGA55; LEVELS AHD



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ISSUE	DATE	SUBJECT	AUTHORITY
1	18/04/18	FIRST ISSUE	EK
2	8/08/18	FINAL DESIGN	EK

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DRAWING NO.	TITLE

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CENTRAL QUEENSLAND COAL PTL
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CIVIL WORKS
HAUL ROAD
CROSS SECTIONS
CH3720-CH3997.249

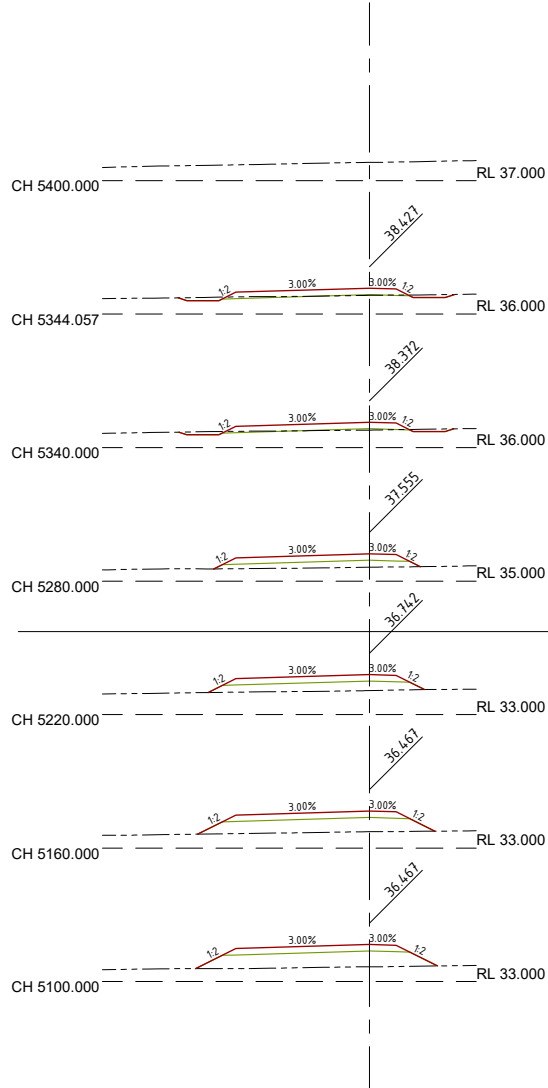
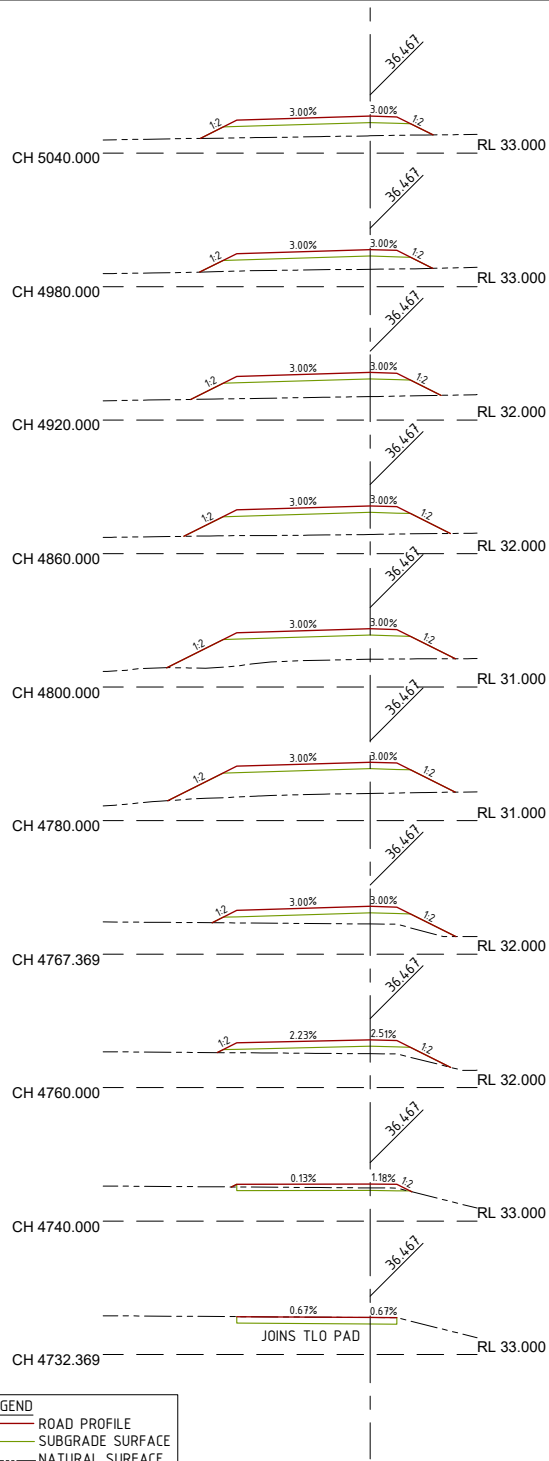
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JOB NO G1706/02

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0 1500 VERT 10

DRAWING NUMBER G1706-02-HR-20 2 21

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LEGEND	
	ROAD PROFILE
	SUBGRADE SURFACE
	NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

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SURVEY DATUM MGA55; LEVELS
AHD



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CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

HAUL ROAD

CROSS SECTIONS

CH4732.369-CH5400

TITLE NO G1706-02-HR3.DWG

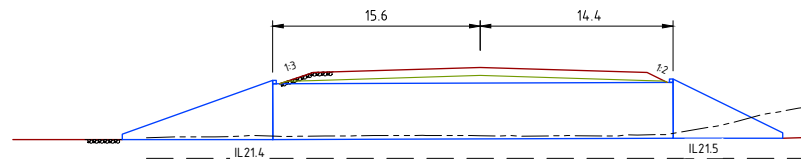
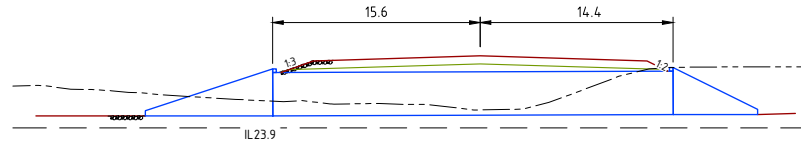
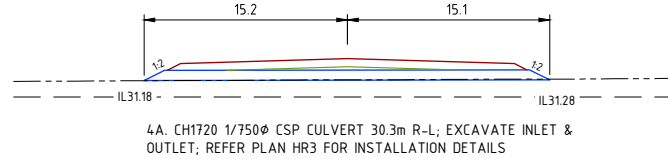
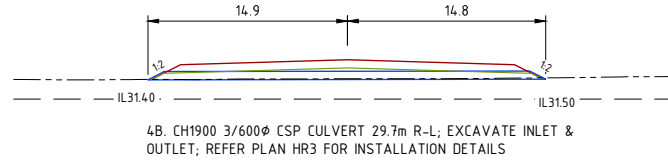
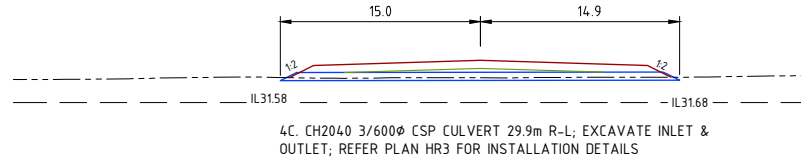
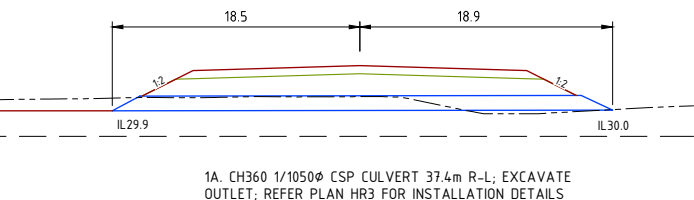
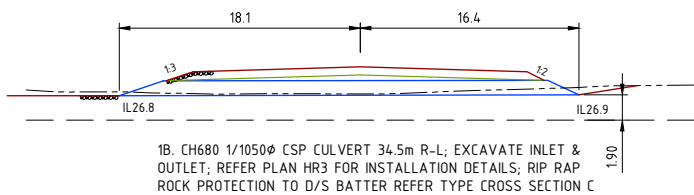
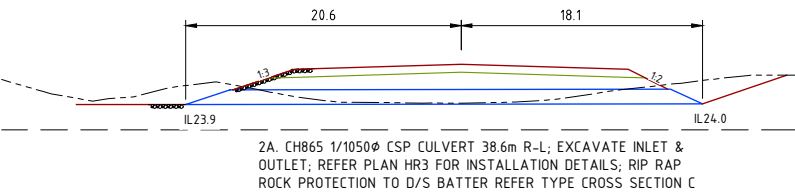
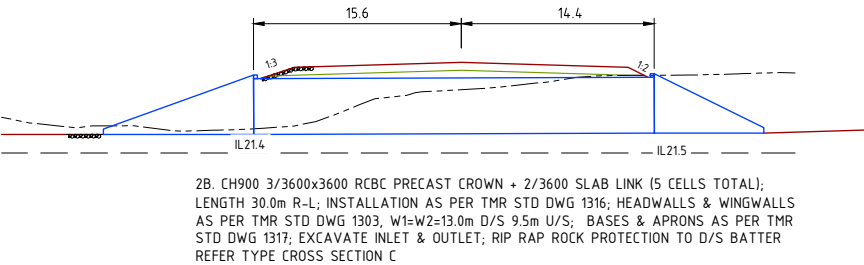
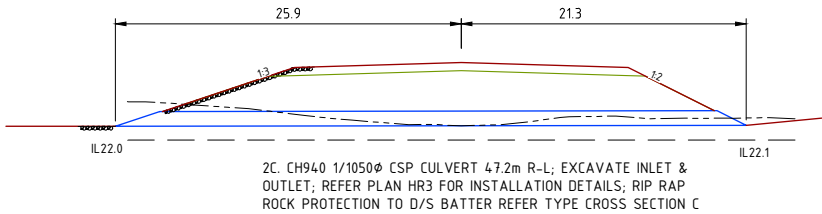
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DRAWING NUMBER G1706-02-HR-21 2 22

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DESIGN: ASC DATE 03/05/18



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RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
HAUL ROAD
CULVERT SECTIONS CH360-CH2040

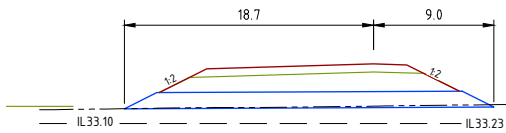
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JOB NO: G1706/02

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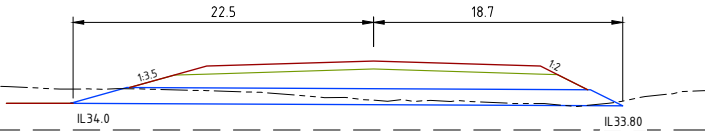
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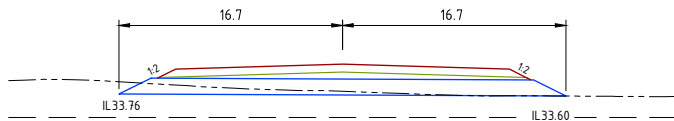
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11A. CH4840 1/1200 ϕ CSP CULVERT 27.7m R-L; EXCAVATE INLET & OUTLET; REFER PLAN HR3 FOR INSTALLATION DETAILS



6A. CH2700 10/1200 ϕ CSP CULVERT 41.2m L-R; EXCAVATE INLET & OUTLET; REFER PLAN HR3 FOR INSTALLATION DETAILS



5A. CH2560 2/1200 ϕ CSP CULVERT 33.4m L-R; EXCAVATE INLET & OUTLET; REFER PLAN HR3 FOR INSTALLATION DETAILS

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DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS
AHD



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DRAWING NO.	TITLE

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RPEQ 4321 APPROVED FOR SEAL DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

HAUL ROAD

CULVERT SECTIONS

CH2560 - CH4840

TITLE NO G1706-02-HR3.DWG

JOB NO G1706/02

SCALE 0 1:400 HORZ 8 AT A3 SIZE

DRAWING NUMBER ISSUE SHEET NO

G1706-02-HR-23 2 24

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CENTRAL QUEENSLAND COAL

DRAWING INDEX

SHEET	DWG NO.	REV	DESCRIPTION
CIVIL WORKS			
1	G1706-02-GA-1	2	SITE PLAN
TLO RAIL BALLOON LOOP			
2	G1706-02-TLO-1	2	CONTROL LINE SETOUT DETAILS SHEET 1 OF 2
3	G1706-02-TLO-2	2	CONTROL LINE SETOUT DETAILS SHEET 2 OF 2
4	G1706-02-TLO-3	1	TYPE CROSS SECTIONS & DETAILS
5	G1706-02-TLO-4	2	PLAN & LONGITUDINAL SECTIONS CH0 - CH1500
6	G1706-02-TLO-5	2	PLAN & LONGITUDINAL SECTIONS CH1500 - CH3000
7	G1706-02-TLO-6	2	PLAN & LONGITUDINAL SECTIONS CH3000 - CH4370.593
8	G1706-02-TLO-7	2	CROSS SECTIONS CH100 - CH1725.711
9	G1706-02-TLO-8	2	CROSS SECTIONS CH1725.713 - CH3776.3
10	G1706-02-TLO-9	2	CROSS SECTIONS CH3800 - CH4370.593 & CULVERT SECTIONS
11	G1706-02-TLO-10	1	PLAN & LONGITUDINAL SECTION LOOP DRAIN
12	G1706-02-TLO-11	1	LOOP DRAIN CROSS SECTIONS CH0 - CH340
13	G1706-02-TLO-12	1	LOOP DRAIN CROSS SECTIONS CH360 - CH720
14	G1706-02-TLO-13	1	LOOP DRAIN CROSS SECTIONS CH740 - CH867.594
15	G1706-02-TLO-14	1	LAYDOWN & STOCKPILE PAD SETOUTS & FIN. SURF. LEVELS



IMPORTANT NOTICE

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES UNLESS DIRECTED OTHERWISE. SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM <http://www.cmdg.com.au/>.
2. THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
3. THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXPRESS USE BY CENTRAL QUEENSLAND COAL FOR THE CONSTRUCTION OF THE CENTRAL QUEENSLAND COAL MINE CIVIL WORKS. THEY ARE NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER.
4. AUSTRALIAN MINING ENGINEERING CONSULTANTS PTY LTD ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
5. THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
6. SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS.

EXISTING LEVELS AND SERVICES

1. NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. CONNECTION TO EXISTING SERVICES SHALL BE CARRIED OUT BY THE RELEVANT SERVICE AUTHORITY UNLESS AUTHORISED OTHERWISE BY THE AUTHORITY. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
2. THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE ENGINEER PRIOR TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
3. PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICE CONNECTIONS TO NEW ALLOTMENTS PREVIOUSLY INSTALLED BY OTHERS

ENVIRONMENTAL MANAGEMENT

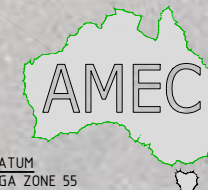
1. THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
2. THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
3. THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
4. ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
5. ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

1. UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES (CMDG) STANDARD DRAWINGS OR TRANSPORT MAIN ROADS (TMR) STANDARD DRAWINGS.



**TRAIN LOAD OUT
JOB NO. G1706/02**



DATUM
MGA ZONE 55
**AUSTRALIAN MINING ENGINEERING
CONSULTANTS**

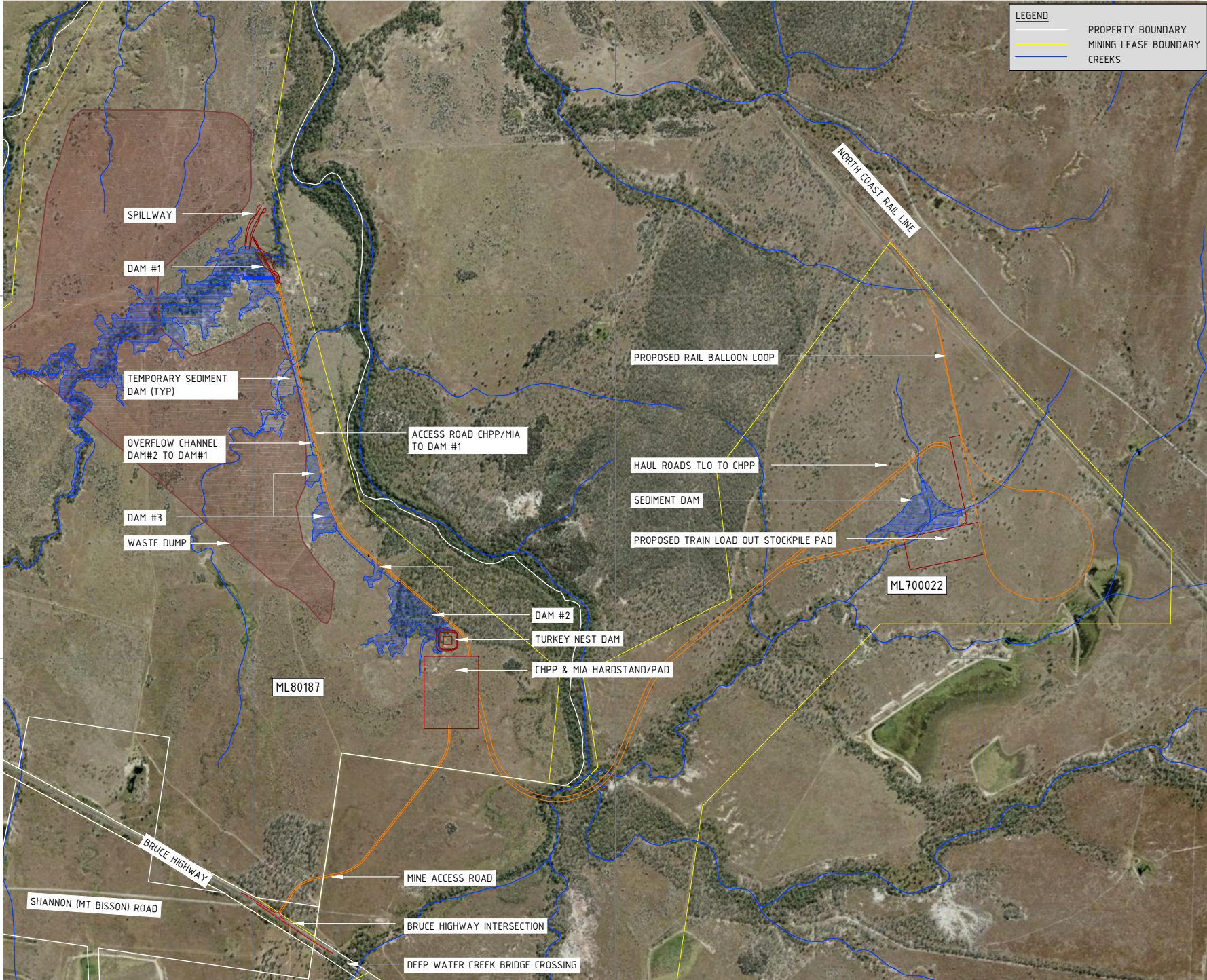
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LEGEND

- PROPERTY BOUNDARY
- MINING LEASE BOUNDARY
- CREEKS

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SURVEY DATUM MGA55



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1	19/04/18	FIRST ISSUE
2	29/06/18	UPDATED POST THR

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17
 DESIGN: ASC DATE 22/07/17

AMEC
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 AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
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 MACKAY

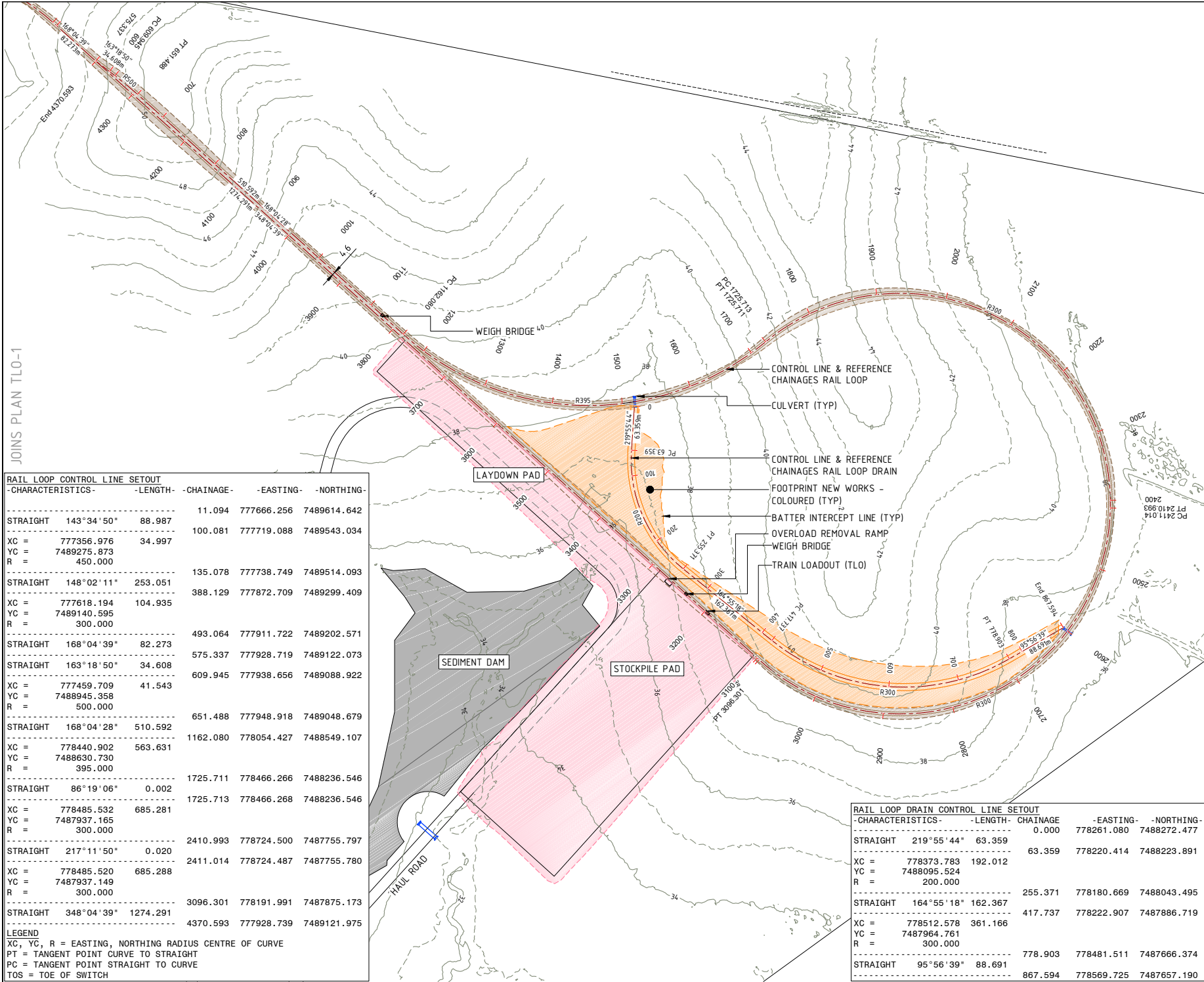
RPEQ 4321 APPROVED FOR USE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 SITE PLAN

TITLE NO: G1706-02-GA1.DWG
 JOB NO: G1706/02
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 DRAWING NUMBER: G1706-02-GA-1 ISSUE SHEET NO: 2 1

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JOINS PLAN TLO-1

RAIL LOOP CONTROL LINE SETOUT CHARACTERISTICS	LENGTH	CHAINAGE	EASTING	NORTHING
STRAIGHT	143°34'50"	88.987	11.094	777666.256
XC =	777356.976	34.997	100.081	777719.088
YC =	7489275.873			7489543.034
R =	450.000			
STRAIGHT	148°02'11"	253.051	135.078	777738.749
XC =	777618.194	104.935	388.129	777872.709
YC =	7489140.595			7489299.409
R =	300.000			
STRAIGHT	168°04'39"	82.273	493.064	777911.722
XC =	777459.709	41.543	575.337	777928.719
YC =	7488945.358			7489122.073
R =	500.000			
STRAIGHT	163°18'50"	34.608	609.945	777938.656
XC =	777459.709	41.543		7489088.922
YC =	7488945.358			
R =	500.000			
STRAIGHT	168°04'28"	510.592	651.488	777948.918
XC =	778440.902	563.631	1162.080	778054.427
YC =	7488630.730			7488549.107
R =	395.000			
STRAIGHT	86°19'06"	0.002	1725.711	778466.266
XC =	778485.532	685.281	1725.713	778466.268
YC =	7487937.165			7488236.546
R =	300.000			
STRAIGHT	217°11'50"	0.020	2410.993	778724.500
XC =	778485.520	685.288	2411.014	778724.487
YC =	7487937.149			7487755.780
R =	300.000			
STRAIGHT	348°04'39"	1274.291	3096.301	778191.991
XC =	778191.991	7487875.173	4370.593	777928.739
YC =	7487875.173			7489121.975
R =	300.000			

LEGEND
 XC, YC, R = EASTING, NORTHING RADIUS CENTRE OF CURVE
 PT = TANGENT POINT CURVE TO STRAIGHT
 PC = TANGENT POINT STRAIGHT TO CURVE
 TOS = TOE OF SWITCH

RAIL LOOP DRAIN CONTROL LINE SETOUT CHARACTERISTICS	LENGTH	CHAINAGE	EASTING	NORTHING
STRAIGHT	219°55'44"	63.359	0.000	778261.080
XC =	778373.783	192.012	63.359	778220.414
YC =	7488095.524			7488223.891
R =	200.000			
STRAIGHT	164°55'18"	162.367	255.371	778180.669
XC =	778512.578	361.166	417.737	778222.907
YC =	7487964.761			7487886.719
R =	300.000			
STRAIGHT	95°56'39"	88.691	778.903	778481.511
XC =	778512.578	361.166	778.903	778481.511
YC =	7487964.761			7487657.190
R =	300.000			

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SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 1.0m LIDAR EXIST. SURFACE

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XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE: 22/07/17
 DESIGN: ASC DATE: 22/07/17

AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR USE DATE: 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 CONTROL LINE SETOUT DETAILS
 SHEET 1 OF 2

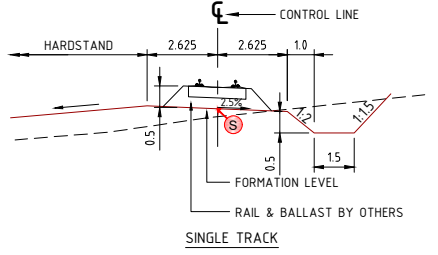
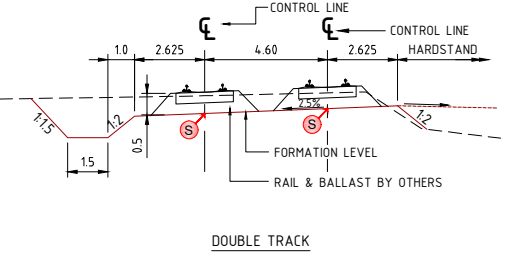
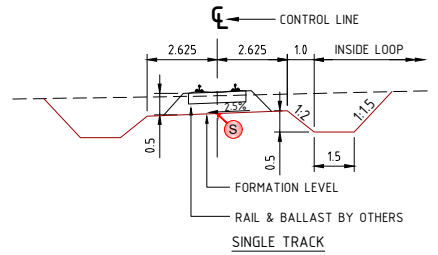
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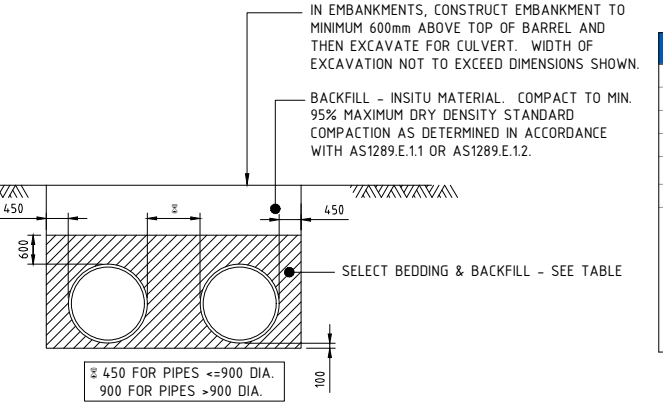
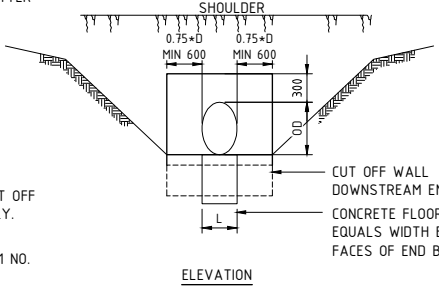
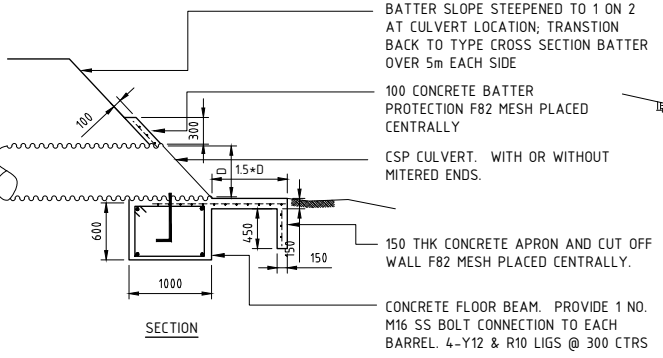
DRAWING NUMBER	ISSUE	SHEET NO
G1706-02-TLO-2	2	3

PRINT IN COLOUR

(S) CONSTRUCTION FSL



TYPE CROSS SECTIONS RAIL LOOP



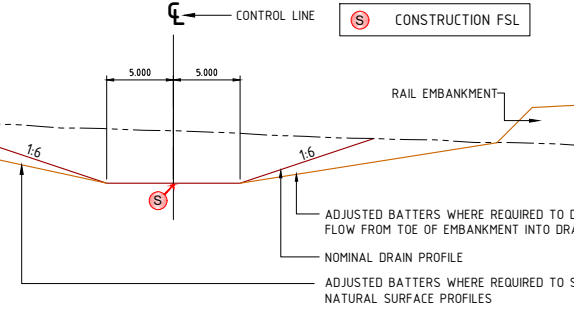
HELICOR PIPE BEDDING & BACKFILL DETAILS

SIEVE SIZE	MASS OF SAMPLE PASSING %
75	100
53	80 - 100
9.5	60 - 85
2.36	25 - 75
0.075	0 - 10

SELECT BACKFILL MATERIAL SHALL COMPLY WITH THESE GRADING REQUIREMENTS & HAVE A MAXIMUM LINEAR SHRINKAGE OF 8% DETERMINED IN ACCORDANCE WITH AS1289.C4.1. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY FOR STANDARD COMPACTIVE EFFORT AS DETERMINED IN ACCORDANCE WITH AS1289.E.1.1 OR AS1289.E.1.2. HELICOR PIPE COMPONENTS - AS1761-1985. PIPE DESIGN AND CONSTRUCTION - AS1762-1984. REFER TO MANUFACTURER SPECS FOR FULL DETAILS. WITH AS1289.C4.1. ALL BACKFILL MATERIAL SHALL

NOTES

1. CONNECTION TO EXISTING WORKS: LEVELS MAY BE VARIED WHERE NECESSARY TO ACHIEVE A SATISFACTORY SMOOTH CONNECTION TO EXISTING WORKS
2. EMBANKMENT EARTHWORKS GENERAL: WELL GRADED LOCALLY SOURCED NON DISPERSIVE MATERIAL; MAX PARTICLE SIZE 150mm; & EMMERSON DISPERSION CLASSIFICATION GREATER THAN 4.
3. EMBANKMENT EARTHWORKS ADDITIONAL REQUIREMENTS FOR SECTIONS NOT ACTING AS DAM WALLS: LL < 30% & PI < 15%.
4. EMBANKMENT EARTHWORKS ADDITIONAL REQUIREMENTS FOR SECTIONS ACTING AS DAM WALLS UP TO FULL SUPPLY LEVEL: WELL GRADED SANDY/SILTY CLAY MATERIAL; LL 30% - 60%; PI 15% - 45%; & MIN 20% PASSING 75µm.
5. FOUNDATION PREPARATION (NATURAL SURFACE): STRIP TOPSOIL & STOCKPILE FOR RE-USE ON DISTURBED AREAS NOT COVERED WITH NEW WORKS; & EXCAVATE, REMOVE & BACKFILL LOCAL "SOFT SPOTS".
6. BATTERS & DRAINS: OUTER FACE OF BATTERS TO BE WHEEL ROLLED; BATTERS & DRAINS TO BE FINAL TRIMMED; & RE-SPREAD MIN 100mm TOPSOIL ON FINISHED SURFACE.
7. RE-VEGETATION OF BATTERS, DRAINS & AREAS OF NEW WORKS: TO BE ADVISED BY PRINCIPAL.
8. RIP ROCK ROCK LINING DRAINS & BATTERS: GRADING - MAX SIZE 0.75m, 50% LARGER THAN 0.55m & 90% LARGER THAN 0.3m; GEOFABRIC UNDERLAY - BIDIM @ A34 OR EQUIV.
9. CULVERTS: ALL CULVERTS UNLESS SHOWN OTHERWISE TO BE HELICAL LOCK SEAM CORRUGATED STEEL 2.0mm PLATE PIPES. ALL ENDS TO BE MITRED TO MATCH THE EMBANKMENT SLOPE. GROUND SLOPES ARE VERY FLAT & INVERT LEVELS MAY NEED TO BE ADJUSTED ON SITE TO SUIT.
10. AUDIT TESTING/COMPLIANCE REQUIREMENT: REFER TABLE THIS PLAN.



TYPE CROSS SECTION LOOP DRAIN

AUDIT TESTING SCHEDULE/COMPLIANCE STANDARDS RAIL LOOP FORMATION & PADS

FORMATION LEVEL RAIL	CBR TO MAIN ROADS (TMR)	ONE TEST PER MATERIAL CHANGE. PLAN SHOWING EXTENT OF EACH TYPE OF MATERIAL TESTED.
FORMATION CBR'S	TEST Q113A (4 DAY SOAKED SPECIMENS, 4 POINT)	
NATURAL SURFACE UNDER EMBANKMENTS AFTER STRIPPING	TOP 150mm FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES LENGTH OF RAIL & 225m ² (15mx15m) OF PAD AREA; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
EMBANKMENT EARTHWORKS	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES LENGTH OF RAIL & 225m ² (15mx15m) OF PAD AREA AT 15m DEPTHS BELOW FORMATION LEVEL; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
FORMATION PREPARATION (TOP)	FIELD DENSITY (AUSTRALIAN STANDARD)	ONE (1) PER 100 METRES LENGTH OF RAIL & 225m ² (15mx15m) OF PAD AREA; A MINIMUM OF 100% STANDARD COMPACTION IS REQUIRED TO BE ACHIEVED.
	PROOF ROLL WITH LOADED WATER CART OR EQUIV.	ENTIRE AREA. NO VISIBLE FLEXING TO BE OBSERVED
CONCRETE FOR SLABS, HEADWALLS	COMPRESSION TEST (AUSTRALIAN STANDARD)	ONE (1) SET OF THREE CYLINDERS PER CULVERT INSTALLATION (1 X 7 DAYS, 2 X 28 DAYS).

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD;



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CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	APPROVED
15/07/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17
DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
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RPEQ 4321 APPROVED FOR SIGN DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

TLO RAIL BALLOON LOOP

TYPE CROSS SECTIONS & DETAILS

TITLE NO: G1706-02-TLO2.DWG

JOB NO: G1706/02

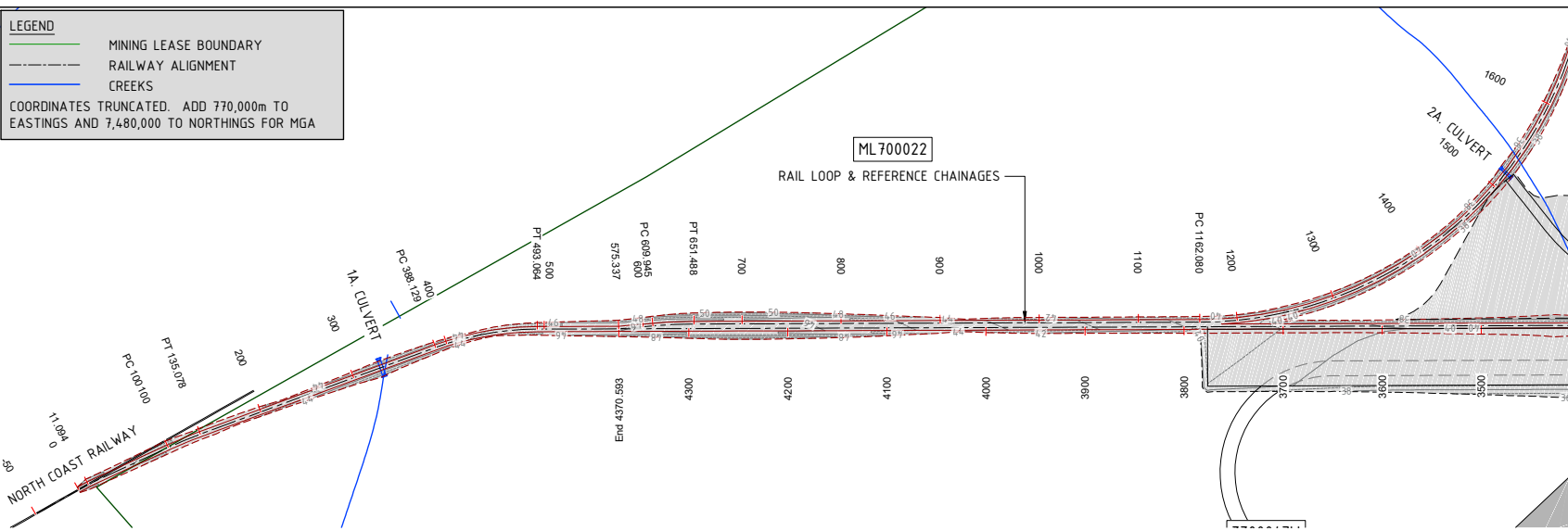
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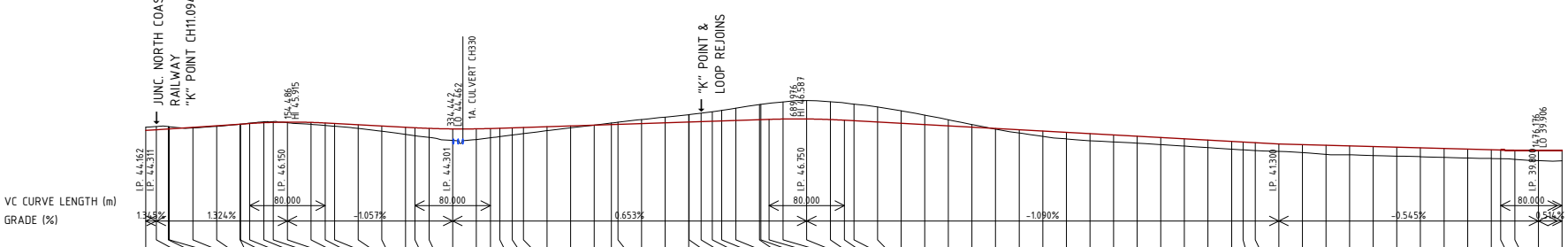
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PRINT IN COLOUR

LEGEND
 MINING LEASE BOUNDARY
 RAILWAY ALIGNMENT
 CREEKS
 COORDINATES TRUNCATED. ADD 770,000m TO EASTINGS AND 7,480,000 TO NORTHINGS FOR MGA



CENTER LINE SETOUT CHAINAGE	EASTING	NORTHING
0.000	7658.949	9622.989
11.094	7666.256	9614.642
23.920	7673.871	9604.321
25.000	7674.512	9603.452
50.000	7689.355	9583.334
75.000	7704.197	9563.217
100.000	7719.039	9543.100
100.081	7719.088	9543.034
125.000	7733.919	9522.983
135.078	7738.749	9514.093
150.000	7746.649	9501.434
175.000	7759.883	9480.224
200.000	7773.118	9459.015
250.000	7786.352	9437.805
275.000	7812.821	9395.386
300.000	7826.056	9374.176
325.000	7839.290	9352.967
350.000	7852.525	9331.757
375.000	7865.759	9310.547
388.129	7872.709	9299.409
400.000	7878.793	9289.216
425.000	7890.259	9267.009
450.000	7899.837	9243.924
475.000	7907.461	9220.122
493.064	7911.722	9202.571
500.000	7913.155	9195.785
525.000	7918.320	9171.324
550.000	7923.484	9146.863
575.000	7928.649	9122.403
575.337	7928.719	9122.073
588.163	7932.401	9109.787
600.000	7935.800	9099.448
609.945	7938.656	9088.922
625.000	7942.760	9074.438
750.000	7969.274	8952.293
775.000	7974.440	8927.833
800.000	7979.606	8903.372
825.000	7984.772	8878.912
850.000	7989.939	8854.451
875.000	7995.105	8829.991
900.000	8000.271	8805.531
925.000	8005.437	8781.070
950.000	8010.603	8756.610
975.000	8015.769	8732.149
1000.000	8020.935	8707.689
1025.000	8026.101	8683.229
1050.000	8031.267	8658.768
1075.000	8036.433	8634.308
1100.000	8041.599	8609.847
1125.000	8046.765	8585.387
1150.000	8051.931	8560.926
1162.080	8054.427	8549.107
1175.000	8057.303	8536.512
1225.000	8072.267	8488.839
1250.000	8081.980	8465.807
1275.000	8093.129	8443.436
1300.000	8105.672	8421.814
1325.000	8119.557	8401.030
1350.000	8134.729	8381.165
1375.000	8151.126	8362.300
1400.000	8168.684	8344.509
1425.000	8187.333	8327.865
1450.000	8206.996	8312.433
1475.000	8227.597	8298.276
1500.000	8249.051	8285.450



DEPTH	FSL FORMATION	NSL	CHAINAGE	ALIGNMENT DETAILS
0.000	44.835	44.835	0.000	B=14.3*34.50° D=88.99
11.094	44.381	44.381	11.094	B=14.3*34.50° D=88.99
23.920	44.431	44.431	23.920	B=14.3*34.50° D=88.99
25.000	44.495	44.495	25.000	B=14.3*34.50° D=88.99
50.000	44.825	44.825	50.000	B=14.3*34.50° D=88.99
75.000	45.025	45.025	75.000	B=14.3*34.50° D=88.99
100.000	45.468	45.468	100.000	B=14.3*34.50° D=88.99
100.081	45.462	45.462	100.081	B=14.3*34.50° D=88.99
125.000	45.966	45.966	125.000	B=14.3*34.50° D=88.99
135.078	46.095	46.095	135.078	B=14.3*34.50° D=88.99
150.000	46.397	46.397	150.000	B=14.3*34.50° D=88.99
175.000	46.545	46.545	175.000	B=14.3*34.50° D=88.99
200.000	46.573	46.573	200.000	B=14.3*34.50° D=88.99
225.000	46.575	46.575	225.000	B=14.3*34.50° D=88.99
250.000	46.593	46.593	250.000	B=14.3*34.50° D=88.99
275.000	46.629	46.629	275.000	B=14.3*34.50° D=88.99
300.000	46.681	46.681	300.000	B=14.3*34.50° D=88.99
325.000	46.723	46.723	325.000	B=14.3*34.50° D=88.99
350.000	46.800	46.800	350.000	B=14.3*34.50° D=88.99
375.000	46.827	46.827	375.000	B=14.3*34.50° D=88.99
400.000	46.879	46.879	400.000	B=14.3*34.50° D=88.99
425.000	46.911	46.911	425.000	B=14.3*34.50° D=88.99
450.000	46.944	46.944	450.000	B=14.3*34.50° D=88.99
475.000	46.973	46.973	475.000	B=14.3*34.50° D=88.99
500.000	47.015	47.015	500.000	B=14.3*34.50° D=88.99
525.000	47.061	47.061	525.000	B=14.3*34.50° D=88.99
550.000	47.111	47.111	550.000	B=14.3*34.50° D=88.99
575.000	47.164	47.164	575.000	B=14.3*34.50° D=88.99
600.000	47.220	47.220	600.000	B=14.3*34.50° D=88.99
625.000	47.279	47.279	625.000	B=14.3*34.50° D=88.99
650.000	47.340	47.340	650.000	B=14.3*34.50° D=88.99
675.000	47.403	47.403	675.000	B=14.3*34.50° D=88.99
700.000	47.468	47.468	700.000	B=14.3*34.50° D=88.99
725.000	47.535	47.535	725.000	B=14.3*34.50° D=88.99
750.000	47.604	47.604	750.000	B=14.3*34.50° D=88.99
775.000	47.675	47.675	775.000	B=14.3*34.50° D=88.99
800.000	47.748	47.748	800.000	B=14.3*34.50° D=88.99
825.000	47.823	47.823	825.000	B=14.3*34.50° D=88.99
850.000	47.900	47.900	850.000	B=14.3*34.50° D=88.99
875.000	47.979	47.979	875.000	B=14.3*34.50° D=88.99
900.000	48.060	48.060	900.000	B=14.3*34.50° D=88.99
925.000	48.143	48.143	925.000	B=14.3*34.50° D=88.99
950.000	48.228	48.228	950.000	B=14.3*34.50° D=88.99
975.000	48.315	48.315	975.000	B=14.3*34.50° D=88.99
1000.000	48.404	48.404	1000.000	B=14.3*34.50° D=88.99
1025.000	48.495	48.495	1025.000	B=14.3*34.50° D=88.99
1050.000	48.588	48.588	1050.000	B=14.3*34.50° D=88.99
1075.000	48.683	48.683	1075.000	B=14.3*34.50° D=88.99
1100.000	48.780	48.780	1100.000	B=14.3*34.50° D=88.99
1125.000	48.879	48.879	1125.000	B=14.3*34.50° D=88.99
1150.000	48.980	48.980	1150.000	B=14.3*34.50° D=88.99
1175.000	49.082	49.082	1175.000	B=14.3*34.50° D=88.99
1200.000	49.186	49.186	1200.000	B=14.3*34.50° D=88.99
1225.000	49.291	49.291	1225.000	B=14.3*34.50° D=88.99
1250.000	49.398	49.398	1250.000	B=14.3*34.50° D=88.99
1275.000	49.506	49.506	1275.000	B=14.3*34.50° D=88.99
1300.000	49.615	49.615	1300.000	B=14.3*34.50° D=88.99
1325.000	49.725	49.725	1325.000	B=14.3*34.50° D=88.99
1350.000	49.836	49.836	1350.000	B=14.3*34.50° D=88.99
1375.000	49.948	49.948	1375.000	B=14.3*34.50° D=88.99
1400.000	50.061	50.061	1400.000	B=14.3*34.50° D=88.99
1425.000	50.175	50.175	1425.000	B=14.3*34.50° D=88.99
1450.000	50.290	50.290	1450.000	B=14.3*34.50° D=88.99
1475.000	50.406	50.406	1475.000	B=14.3*34.50° D=88.99
1500.000	50.523	50.523	1500.000	B=14.3*34.50° D=88.99

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.5m LIDAR EXIST. SURFACE

COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	15/08/18	FINAL DESIGN

XREF FILES	DRAWING NO	TITLE
G1706-02-BASE		BASE PLAN

DRAWN: ASC DATE: 22/07/17
 DESIGN: ASC DATE: 22/07/17

AUSTRALIAN MINING ENGINEERING CONSULTANTS
 AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MOB: 0417187149
 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR SEAL DATE: 23/07/17

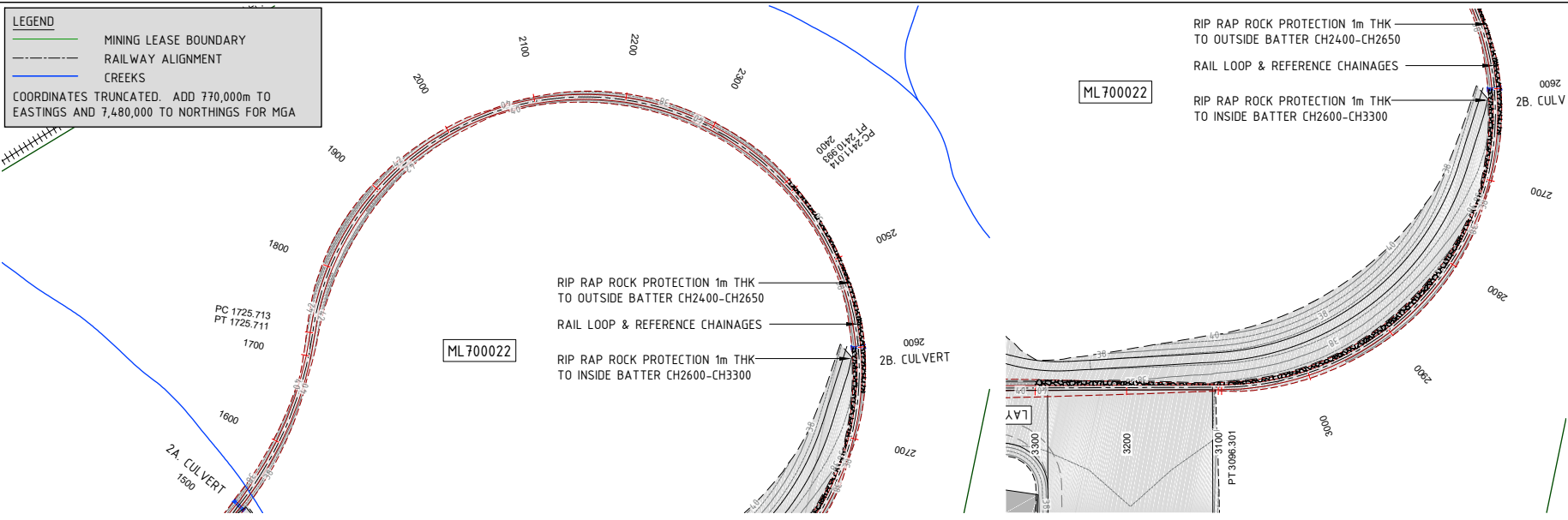
CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 PLAN & LONGITUDINAL SECTIONS
 SHEET CH0 - CH1500

TITLE NO: G1706-02-TLO3.DWG
 JOB NO: G1706/02
 SCALE: 0 15000 HORIZ 100 AT A3 SIZE
 0 1500 VERT 10
 DRAWING NUMBER: G1706-02-TLO-4
 ISSUE SHEET NO: 2 5

PRINT IN COLOUR

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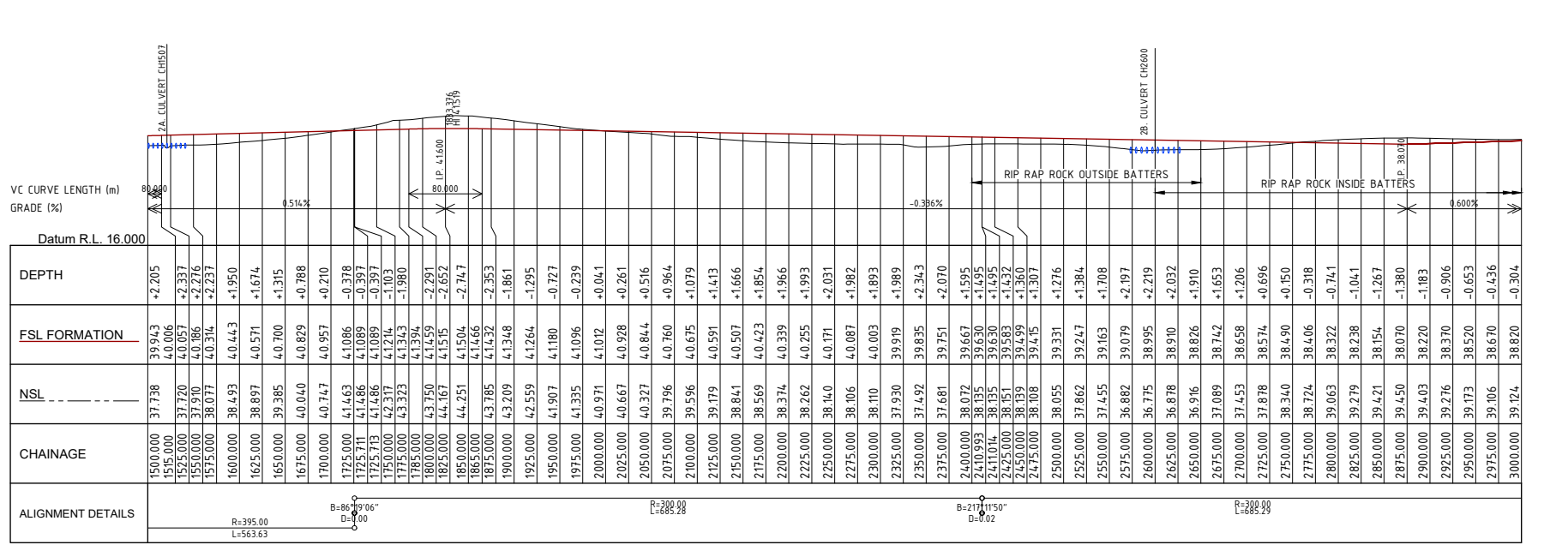
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LEGEND	
	MINING LEASE BOUNDARY
	RAILWAY ALIGNMENT
	CREEKS

COORDINATES TRUNCATED. ADD 770,000m TO EASTINGS AND 7,480,000 TO NORTHINGS FOR MGA

CENTER LINE SETOUT	
CHAINAGE	EASTING
1500.000	8249.051
1505.000	8271.274
1550.000	8294.176
1575.000	8317.685
1600.000	8341.648
1625.000	8366.029
1650.000	8390.709
1675.000	8415.590
1700.000	8440.573
1725.000	8465.557
1750.000	8490.542
1775.000	8515.492
1800.000	8540.294
1825.000	8564.597
1850.000	8588.411
1875.000	8611.511
1900.000	8633.736
1925.000	8654.933
1950.000	8674.954
1975.000	8693.661
2000.000	8710.923
2025.000	8726.621
2050.000	8740.645
2075.000	8752.899
2100.000	8763.287
2125.000	8771.788
2150.000	8778.251
2175.000	8782.704
2200.000	8785.093
2225.000	8785.404
2250.000	8783.633
2275.000	8779.794
2300.000	8773.912
2325.000	8766.029
2350.000	8756.198
2375.000	8744.490
2400.000	8730.984
2410.993	8724.500
2411.014	8724.487
2425.000	8715.775
2450.000	8698.969
2475.000	8680.681
2500.000	8661.039
2525.000	8640.179
2550.000	8618.245
2575.000	8595.390
2600.000	8571.773
2650.000	8522.910
2675.000	8498.004
2700.000	8473.012
2725.000	8448.106
2750.000	8423.459
2775.000	8399.244
2800.000	8375.627
2825.000	8352.773
2850.000	8330.840
2875.000	8309.981
2900.000	8290.340
2925.000	8272.054
2950.000	8255.249
2975.000	8240.043
3000.000	8226.540



DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.5m LIDAR EXIST. SURFACE

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NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORITY
18/04/18	FIRST ISSUE	EX
15/08/18	FINAL DESIGN	EX

XREF FILES	DRAWING NO.	TITLE
G1706-02-BASE		BASE PLAN

DRAWN: ASC DATE 22/07/17
DESIGN: ASC DATE 22/07/17

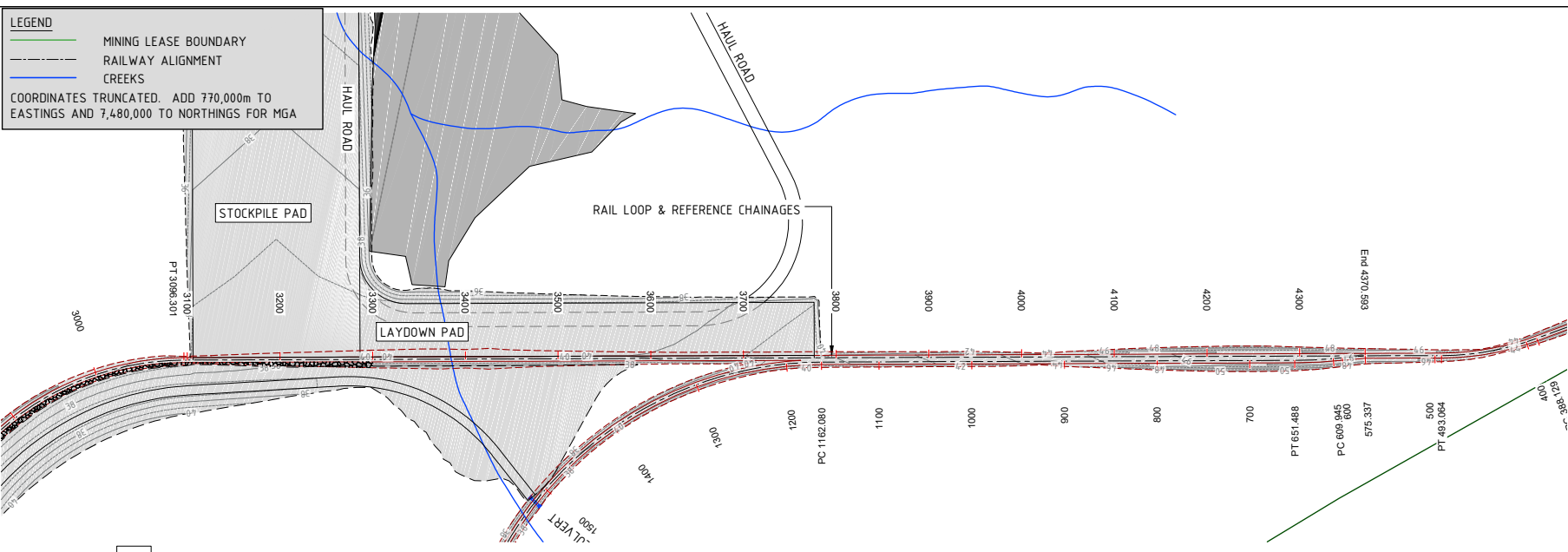
AUSTRALIAN MINING ENGINEERING CONSULTANTS
AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 041787149
EMAIL: amec1@bigpond.net.au
MACKAY

RPEQ 4321 APPROVED FOR SIGN DATE 23/07/17

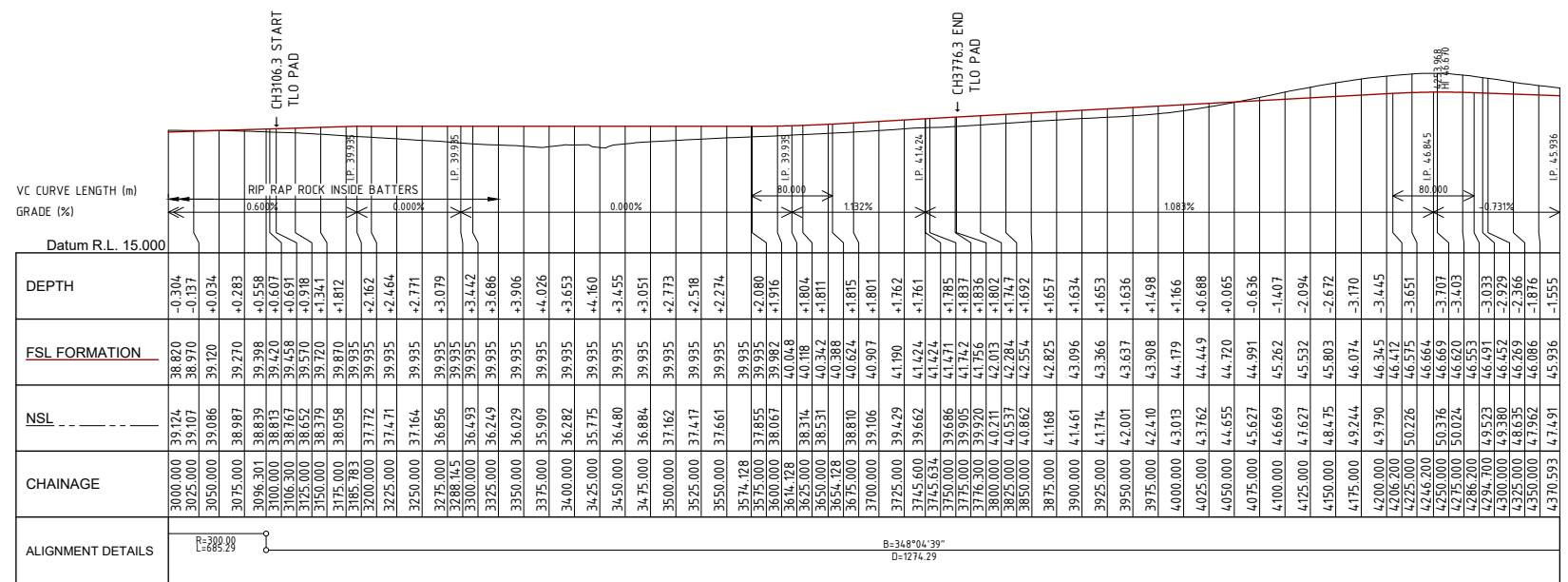
CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
TLO RAIL BALLOON LOOP
PLAN & LONGITUDINAL SECTIONS
CH1500 - CH3000

FILL NO: G1706-02-TLO3.DWG
JOB NO: G1706/02
SCALE: 0 15000 HORZ 100 AT A3 SIZE
0 1500 VERT 10 IS DATE SHEET NO: 2 6
DRAWING NUMBER

PRINT IN COLOUR



CENTER LINE SETOUT CHAINAGE	EASTING	NORTHING
3000.000	8226.540	7785.724
3025.000	8214.884	7807.806
3050.000	8205.008	7830.786
3075.000	8197.128	7854.504
3096.301	8191.991	7875.173
3100.000	8191.227	7878.791
3106.300	8189.926	7884.956
31125.000	8186.063	7903.252
31150.000	8186.898	7927.713
3175.000	8175.733	7952.174
3200.000	8170.569	7976.634
3225.000	8165.404	8001.095
3250.000	8160.239	8025.556
3275.000	8155.075	8050.016
3300.000	8149.910	8074.477
3325.000	8144.745	8098.938
3350.000	8139.580	8123.399
3375.000	8134.416	8147.859
3400.000	8129.251	8172.320
3425.000	8124.086	8196.781
3450.000	8118.922	8221.241
3475.000	8113.757	8245.702
3500.000	8108.592	8270.163
3525.000	8103.428	8294.623
3550.000	8098.263	8319.084
3575.000	8093.098	8343.545
3600.000	8087.934	8368.006
3625.000	8082.769	8392.466
3650.000	8077.604	8416.927
3675.000	8072.440	8441.388
3700.000	8067.275	8465.848
3725.000	8062.110	8490.309
3745.600	8057.865	8510.465
3750.000	8056.946	8514.770
3775.000	8051.781	8539.230
3776.300	8051.512	8540.502
3800.000	8046.616	8563.691
3825.000	8041.452	8588.152
3850.000	8036.287	8612.613
3875.000	8031.122	8637.073
3900.000	8025.958	8661.534
3925.000	8020.793	8685.995
3950.000	8015.628	8710.455
3975.000	8010.464	8734.916
4000.000	8005.299	8759.377
4025.000	8000.134	8783.838
4050.000	7994.970	8808.298
4075.000	7989.805	8832.759
4100.000	7984.640	8857.220
4125.000	7979.475	8881.680
4150.000	7974.311	8906.141
4175.000	7969.146	8930.602
4200.000	7963.981	8955.062
4225.000	7958.817	8979.523
4250.000	7953.652	9003.984
4275.000	7948.487	9028.445
4294.700	7944.418	9047.720
4300.000	7943.323	9052.905
4325.000	7938.158	9077.366
4350.000	7932.993	9101.827
4370.593	7928.739	9121.975



Scale Horizontal 1:5000 Vertical 1:1000

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.5m LIDAR EXIST. SURFACE

COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORITY
1 18/04/18	FIRST ISSUE	EK
2 15/08/18	FINAL DESIGN	EK

XREF FILES	TITLE
DRAWING NO: G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17
DESIGN: ASC DATE 22/07/17

AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
PH: 4954 9429
MOB: 0417187149
EMAIL: amec1@bigpond.net.au
MACKAY

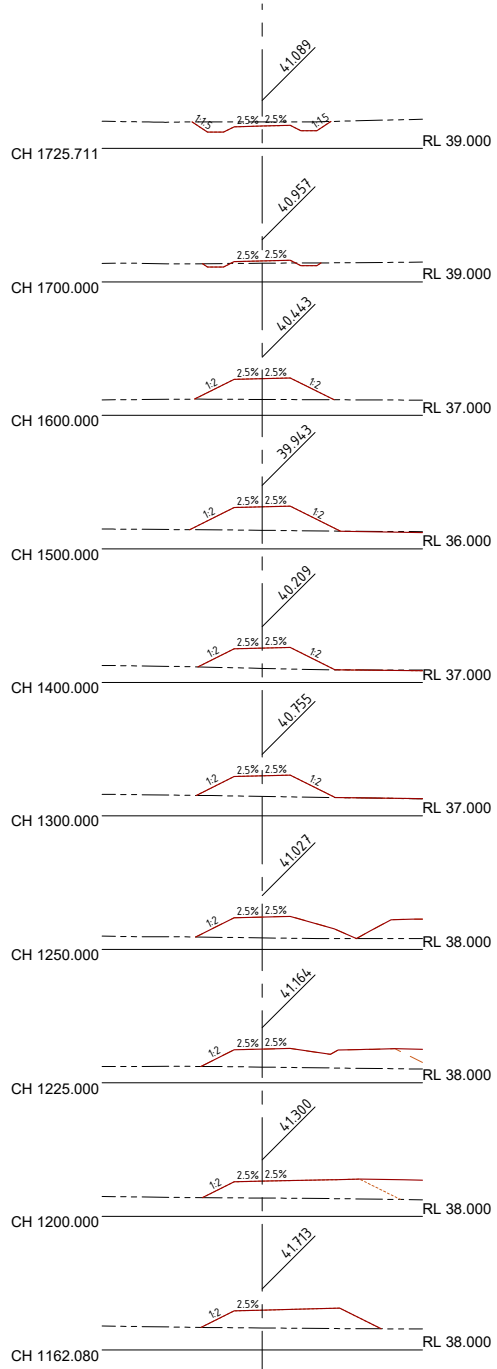
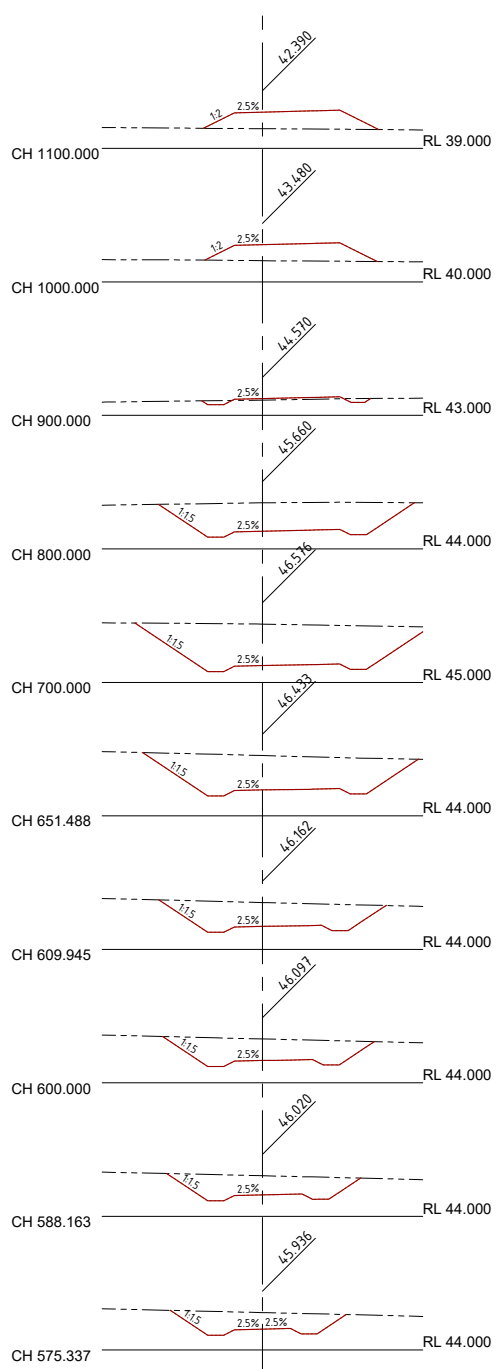
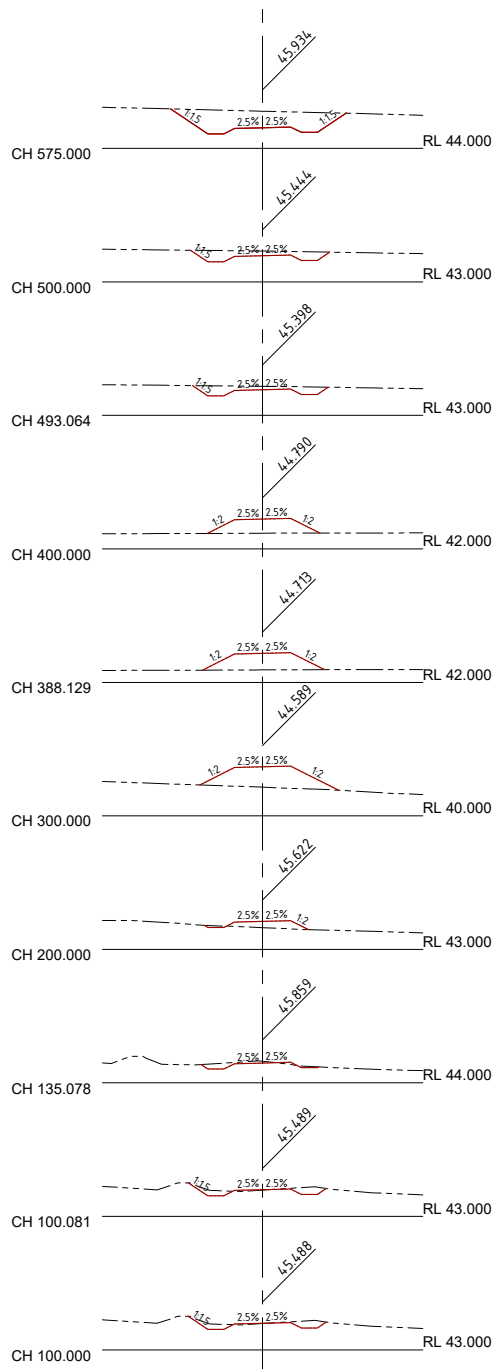
RPEQ 4321 APPROVED FOR SIGN DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
CENTRAL QUEENSLAND COAL PROJECT
CIVIL WORKS
TLO RAIL BALLOON LOOP
PLAN & LONGITUDINAL SECTIONS
CH3000 - CH4370.593

TITLE NO: G1706-02-TLO3.DWG
JOB NO: G1706/02
SCALE: 0 15000 HORZ 100 AT A3 SIZE
0 1500 VERT 10
DRAWING NUMBER: G1706-02-TLO-6
ISSUE SHEET NO: 2 7

PRINT IN COLOUR

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LEGEND
 — FINISHED SURFACE PROFILE
 - - - RAIL EMBANKMENT SURFACE
 ... NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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 CONSULTING ENGINEERS
 ACN 054 355 252
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	15/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17
 DESIGN: ASC DATE 22/07/17

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 PH: 4954 9429
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CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 CROSS SECTIONS
 CH100 - CH1725.711

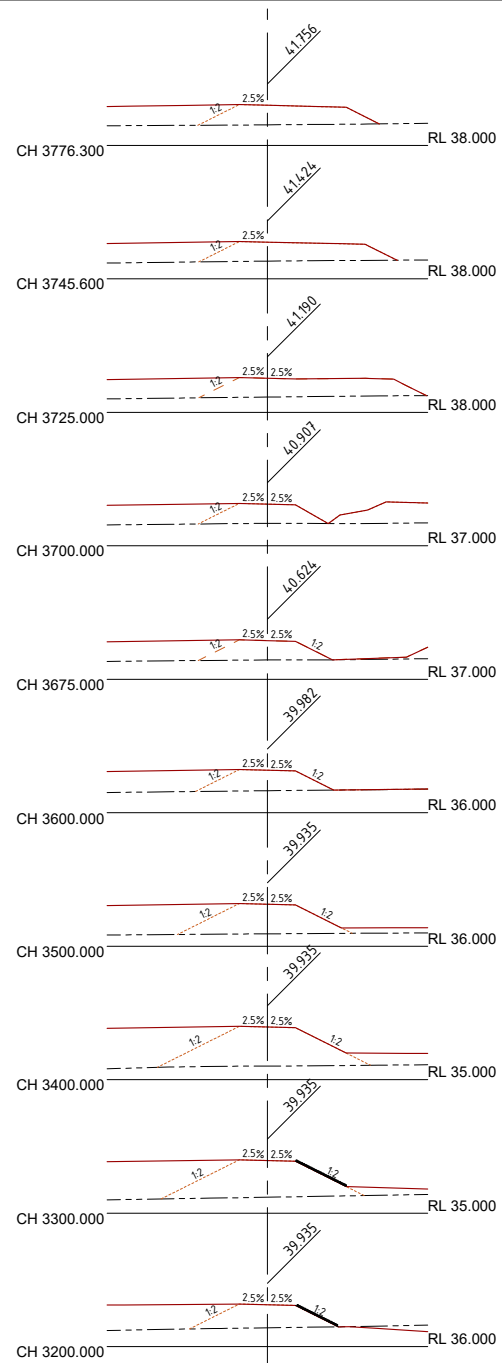
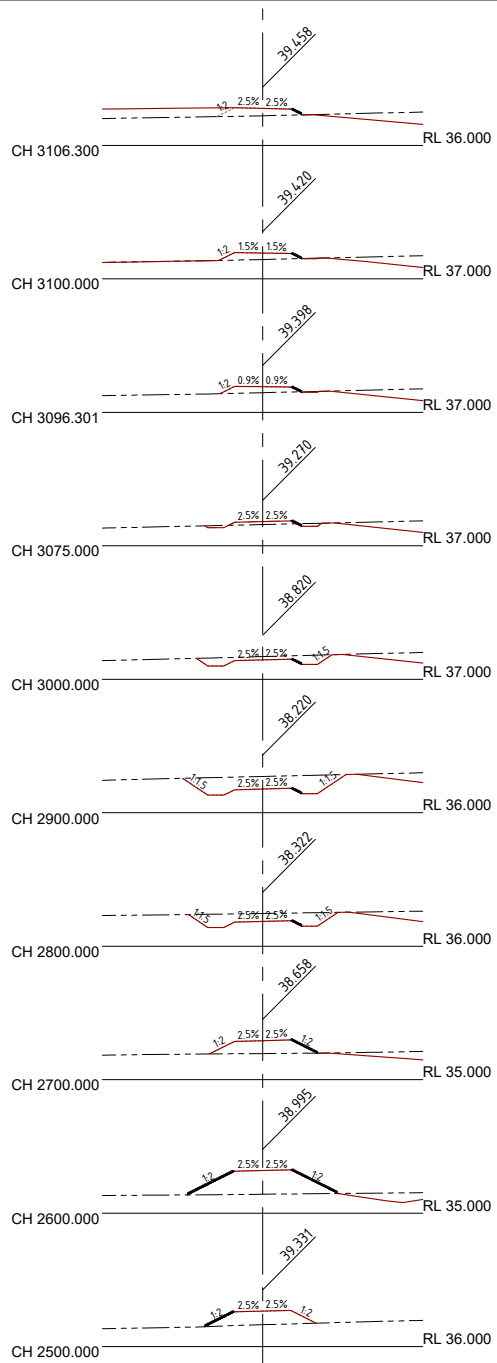
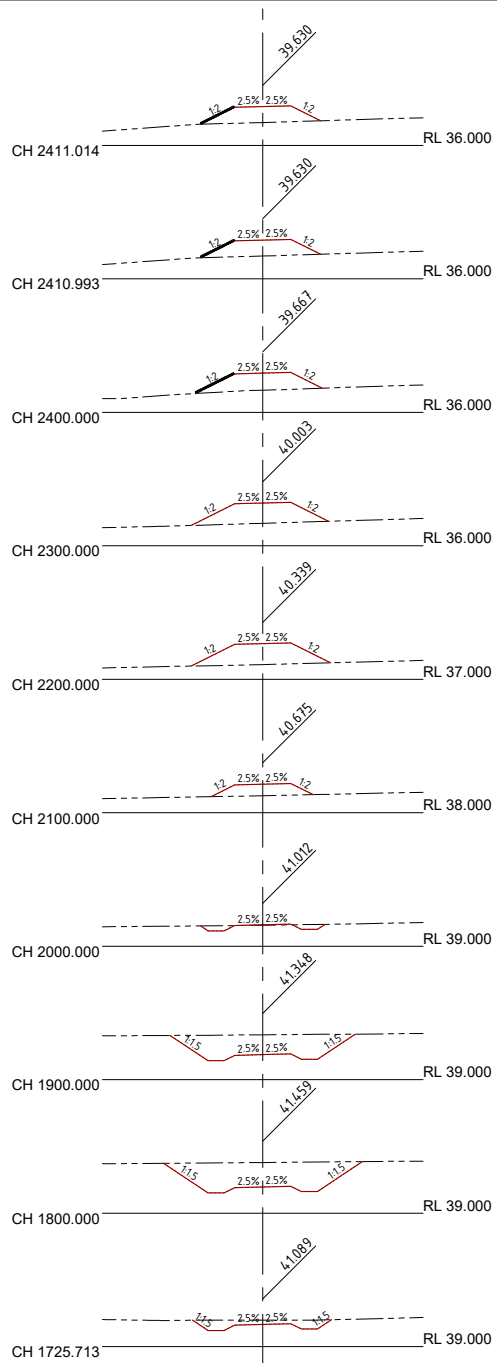
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 JOB NO G1706/02

SCALE 0 1500 HORZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER G1706-02-TLO-7 2 8

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LEGEND
 — FINISHED SURFACE PROFILE
 - - - RAIL EMBANKMENT SURFACE
 ... NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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 CONSULTING ENGINEERS
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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	15/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



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CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 CROSS SECTIONS
 CH1725.713 - CH3776.3

TITLE NO G1706-02-TLO3.DWG

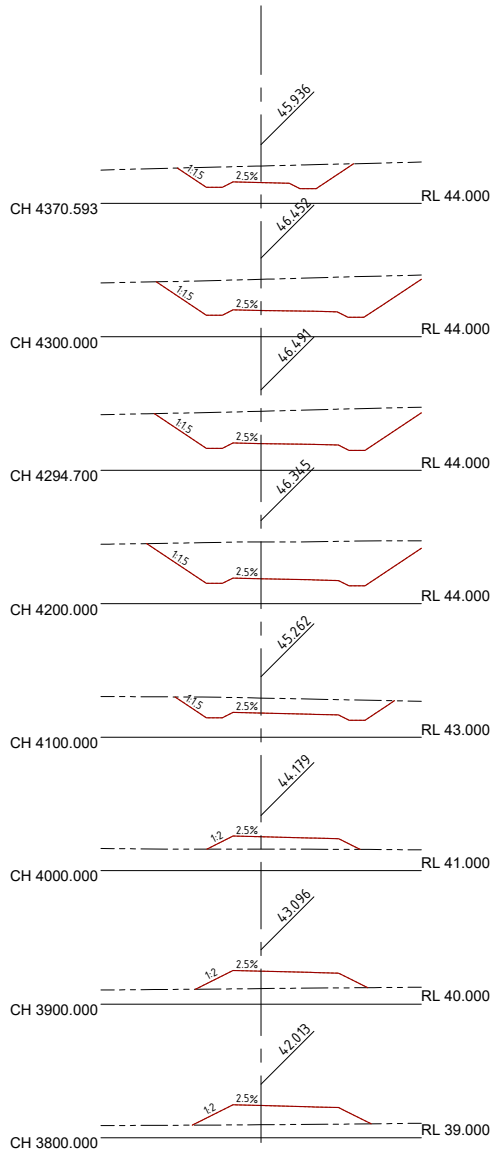
JOB NO G1706/02

SCALE 0 1500 HORZ. 10 AT A3 SIZE
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DRAWING NUMBER G1706-02-TLO-8 2 9

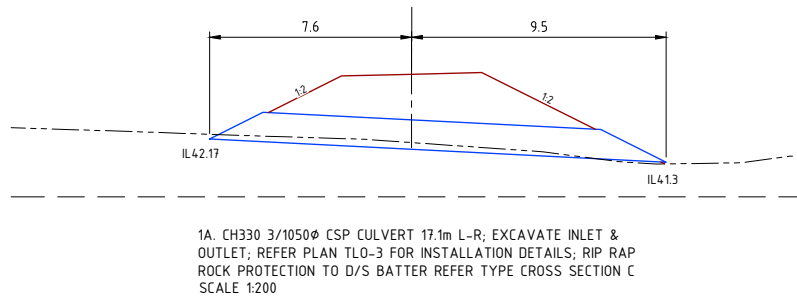
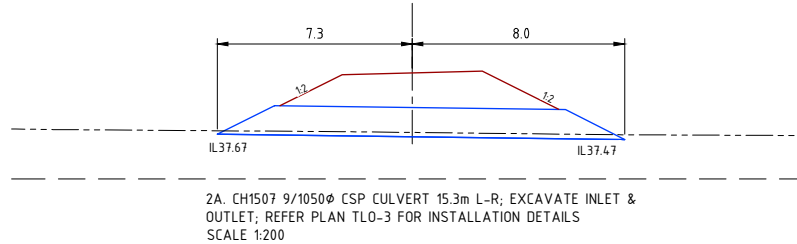
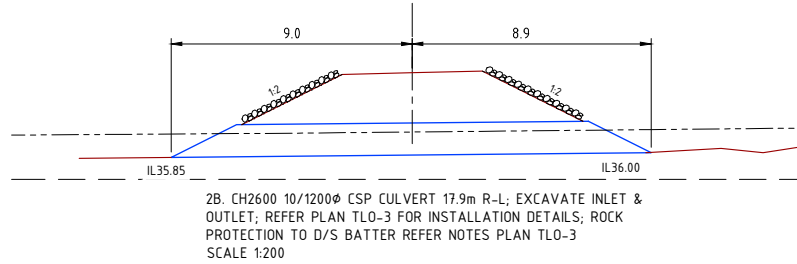
PRINT IN COLOUR

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LEGEND
 — FINISHED SURFACE PROFILE
 - - - RAIL EMBANKMENT SURFACE
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE
2	15/08/18	FINAL DESIGN

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



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CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

TLO RAIL BALLOON LOOP

CROSS SECTIONS CH3800 -

CH4370.593; CULVERT SECTIONS

TITLE NO G1706-02-TLO3.DWG

JOB NO G1706/02

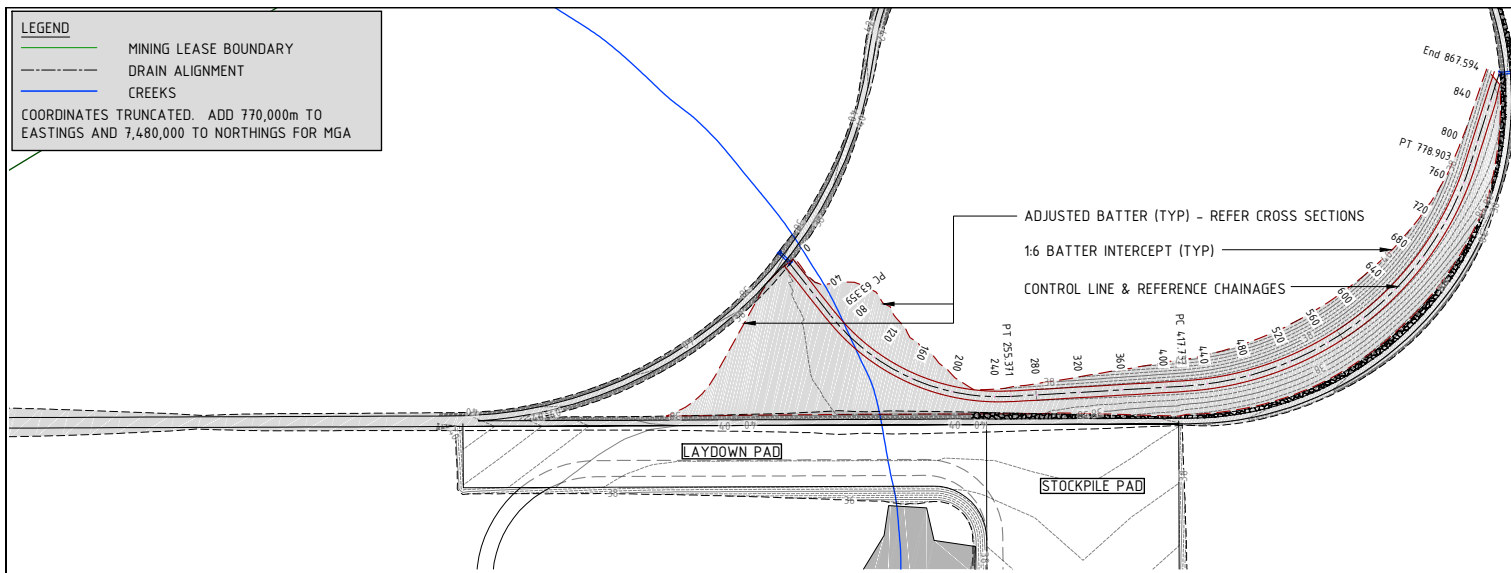
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0 1500 VERT 10

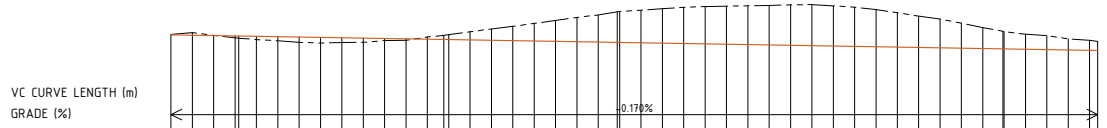
DRAWING NUMBER G1706-02-TLO-9 2 10

PRINT IN COLOUR

LEGEND
 --- MINING LEASE BOUNDARY
 --- DRAIN ALIGNMENT
 --- CREEKS
 COORDINATES TRUNCATED. ADD 770,000m TO EASTINGS AND 7,480,000 TO NORTHINGS FOR MGA



CENTER LINE SETOUT CHAINAGE	EASTING	NORTHING
0.000	8261.080	8272.477
20.000	8248.244	8257.140
40.000	8235.407	8241.803
60.000	8222.570	8226.466
80.000	8209.733	8211.129
100.000	8196.896	8195.792
120.000	8184.059	8180.455
140.000	8171.222	8165.118
160.000	8158.385	8149.781
180.000	8145.548	8134.444
200.000	8132.711	8119.107
220.000	8119.874	8103.770
240.000	8107.037	8088.433
260.000	8094.200	8073.096
280.000	8081.363	8057.759
300.000	8068.526	8042.422
320.000	8055.689	8027.085
340.000	8042.852	8011.748
360.000	8030.015	7996.411
380.000	8017.178	7981.074
400.000	8004.341	7965.737
420.000	7991.504	7950.400
440.000	7978.667	7935.063
460.000	7965.830	7919.726
480.000	7952.993	7904.389
500.000	7940.156	7889.052
520.000	7927.319	7873.715
540.000	7914.482	7858.378
560.000	7901.645	7843.041
580.000	7888.808	7827.704
600.000	7875.971	7812.367
620.000	7863.134	7797.030
640.000	7850.297	7781.693
660.000	7837.460	7766.356
680.000	7824.623	7751.019
700.000	7811.786	7735.682
720.000	7798.949	7720.345
740.000	7786.112	7705.008
760.000	7773.275	7689.671
780.000	7760.438	7674.334
800.000	7747.601	7658.997
820.000	7734.764	7643.660
840.000	7721.927	7628.323
860.000	7709.090	7612.986
867.594	8569.725	7657.190



DEPTH	INVERT	NSL	CHAINAGE
0.000	37.474	37.504	0.000
20.000	37.410	37.685	20.000
40.000	37.346	37.866	40.000
60.000	37.282	38.047	60.000
80.000	37.218	38.228	80.000
100.000	37.154	38.409	100.000
120.000	37.090	38.590	120.000
140.000	37.026	38.771	140.000
160.000	36.962	38.952	160.000
180.000	36.898	39.133	180.000
200.000	36.834	39.314	200.000
220.000	36.770	39.495	220.000
240.000	36.706	39.676	240.000
260.000	36.642	39.857	260.000
280.000	36.578	40.038	280.000
300.000	36.514	40.219	300.000
320.000	36.450	40.400	320.000
340.000	36.386	40.581	340.000
360.000	36.322	40.762	360.000
380.000	36.258	40.943	380.000
400.000	36.194	41.124	400.000
420.000	36.130	41.305	420.000
440.000	36.066	41.486	440.000
460.000	36.002	41.667	460.000
480.000	35.938	41.848	480.000
500.000	35.874	42.029	500.000
520.000	35.810	42.210	520.000
540.000	35.746	42.391	540.000
560.000	35.682	42.572	560.000
580.000	35.618	42.753	580.000
600.000	35.554	42.934	600.000
620.000	35.490	43.115	620.000
640.000	35.426	43.296	640.000
660.000	35.362	43.477	660.000
680.000	35.298	43.658	680.000
700.000	35.234	43.839	700.000
720.000	35.170	44.020	720.000
740.000	35.106	44.201	740.000
760.000	35.042	44.382	760.000
780.000	34.978	44.563	780.000
800.000	34.914	44.744	800.000
820.000	34.850	44.925	820.000
840.000	34.786	45.106	840.000
860.000	34.722	45.287	860.000
867.594	36.013	36.851	867.594

Scale Horizontal 1:5000 Vertical 1:500

DO NOT SCALE OFF DRAWING DIMENSIONS METERS UNO

SURVEY DATUM MGA55; LEVELS AHD; CONTOURS 0.5m LIDAR EXIST. SURFACE

COX ANDREWS ENGINEERS PTL
 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	INITIALS
18/04/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17
 DESIGN: ASC DATE 22/07/17

AUSTRALIAN MINING ENGINEERING CONSULTANTS

AUSTRALIAN MINING ENGINEERING CONSULTANTS
 PH: 4954 9429
 MOB: 0417187149
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 MACKAY

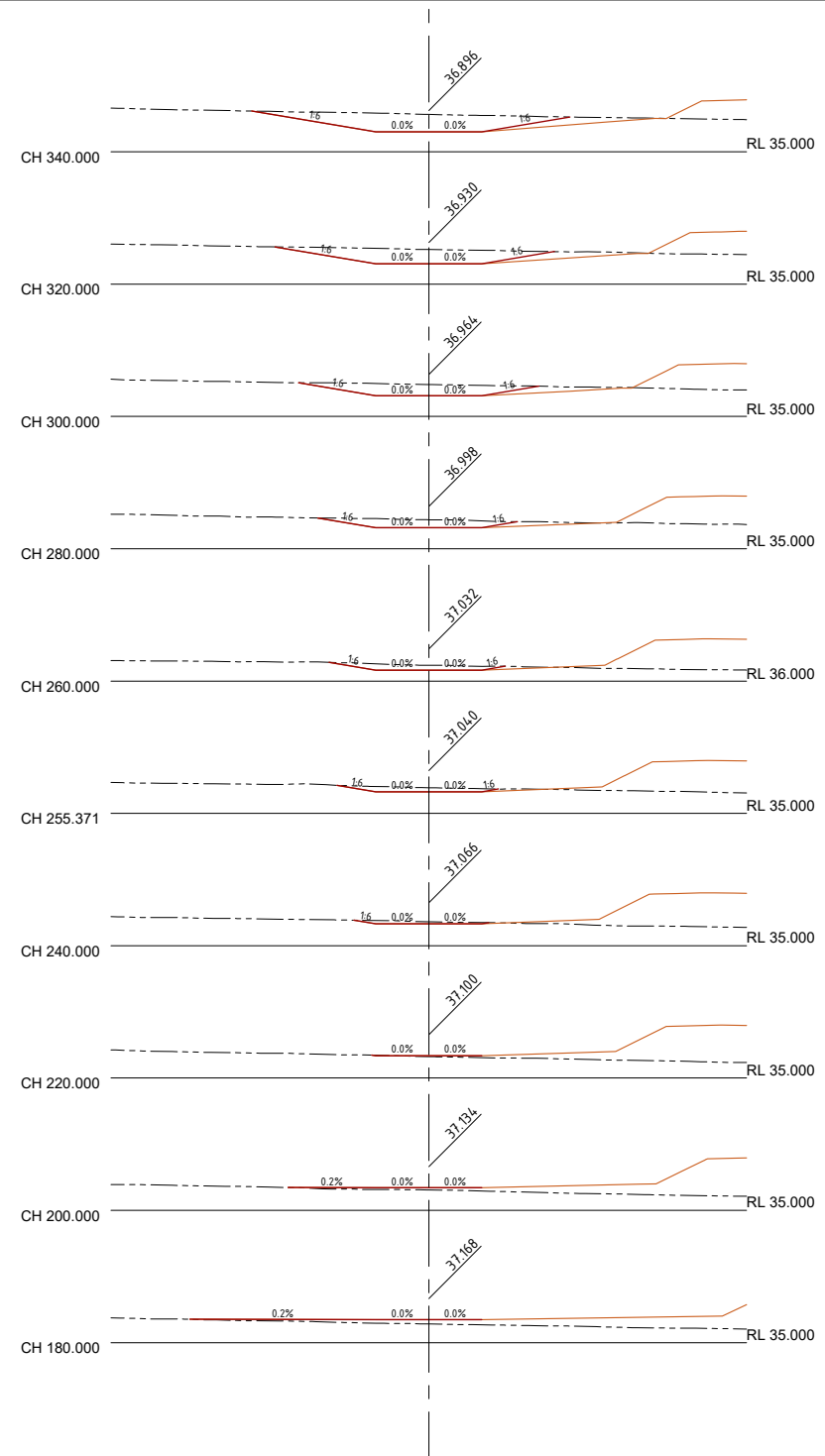
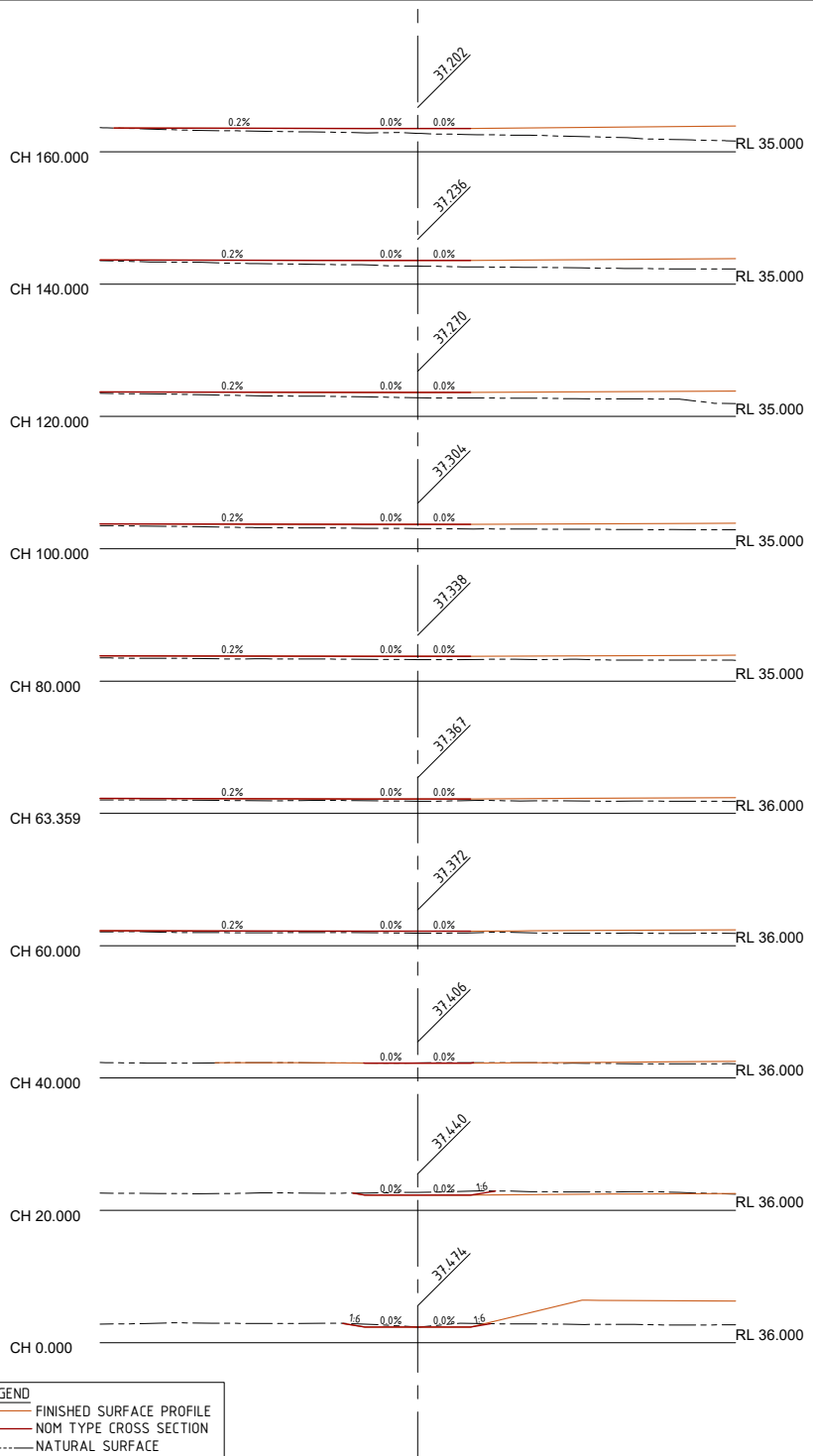
RPEQ 4321 APPROVED FOR USE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 PLAN & LONGITUDINAL SECTION
 LOOP DRAIN

TITLE NO: G1706-02-TLO4.DWG
 JOB NO: G1706/02
 SCALE: 0 15000 HORZ 100 AT A3 SIZE
 0 1500 VERT 10
 DRAWING NUMBER: G1706-02-TLO-10 1 11
 ISSUE SHEET NO: 11

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LEGEND
 FINISHED SURFACE PROFILE
 NOM TYPE CROSS SECTION
 NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



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 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORIZED
1 18/04/18	FIRST ISSUE	AK

XREF FILES	
DRAWING NO.	TITLE

DRAWN ASC DATE 22/07/17
 DESIGN ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MACKAY

RPEQ 4321 APPROVED FOR SALE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 LOOP DRAIN CROSS SECTIONS
 CH0 - CH340

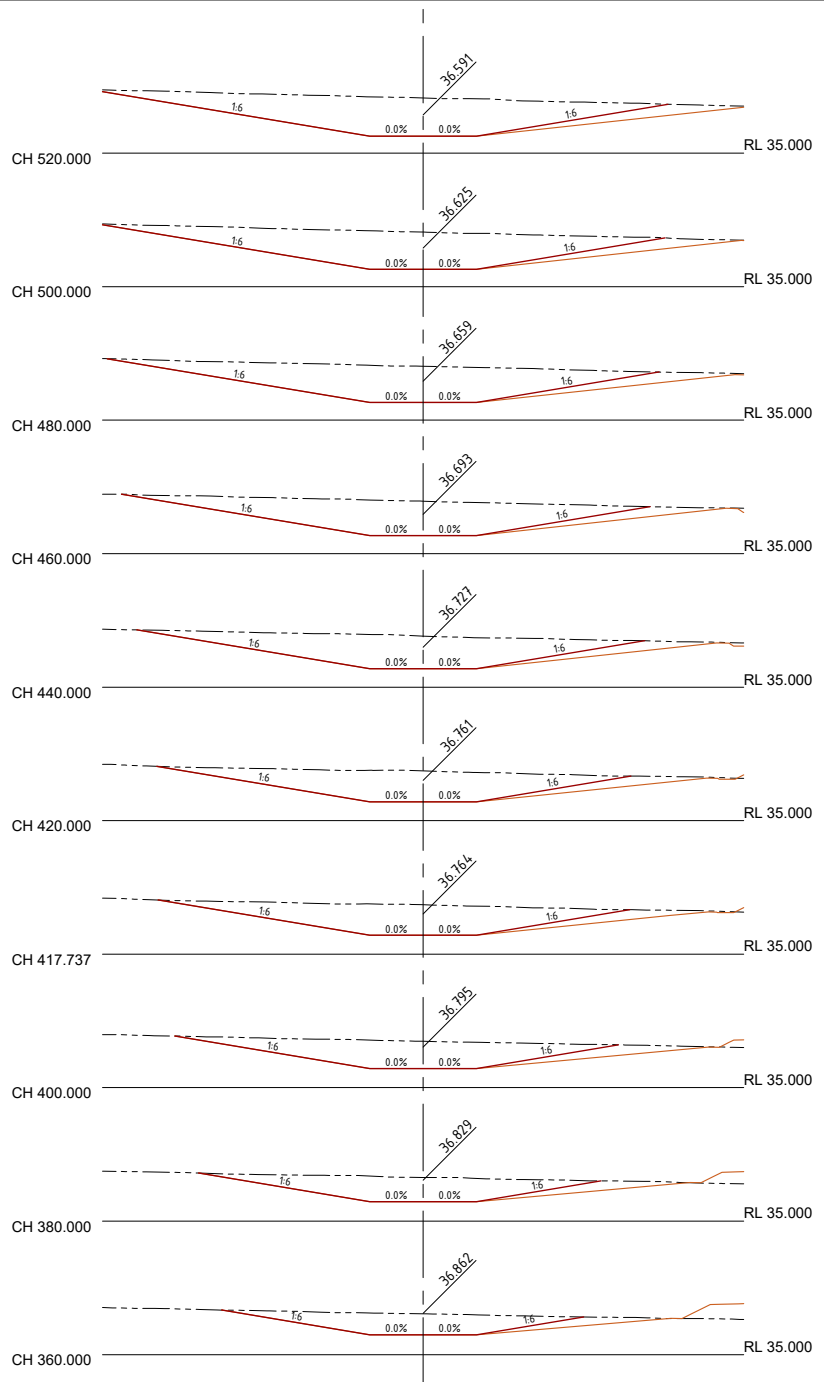
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 JOB NO G1706/02

SCALE 0 1500 HORZ 10 AT A3 SIZE
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DRAWING NUMBER G1706-02-TLO-11 1 12

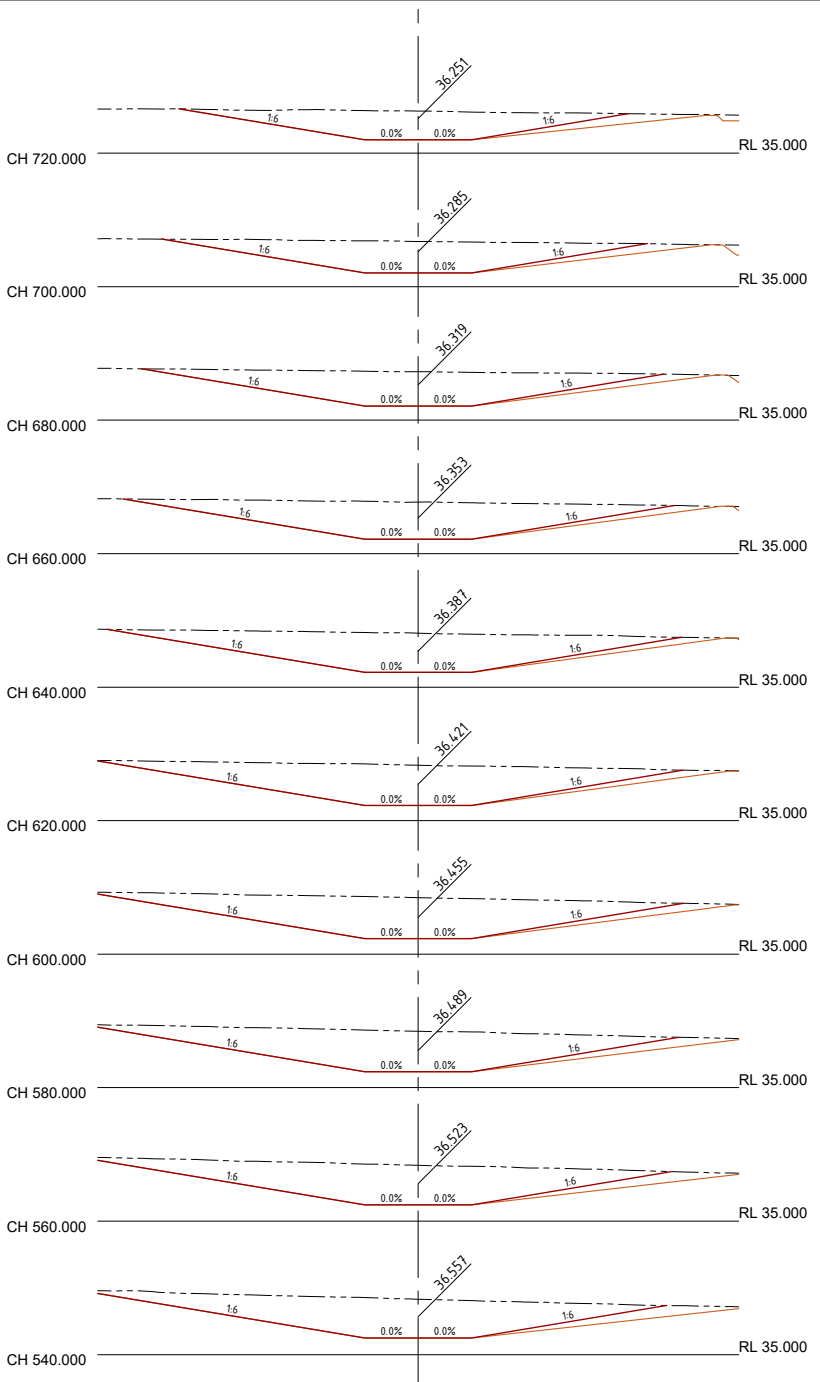
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LEGEND
 - - - - - FINISHED SURFACE PROFILE
 ——— NOM TYPE CROSS SECTION
 - - - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500



DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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 CONSULTING ENGINEERS
 ACN 054 355 252
 email: adslu3d8@tpg.com.au

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AMENDMENTS		
ISSUE	DATE	SUBJECT
1	18/04/18	FIRST ISSUE

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17
 DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 MACKAY

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CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 LOOP DRAIN CROSS SECTIONS
 CH360 - CH720

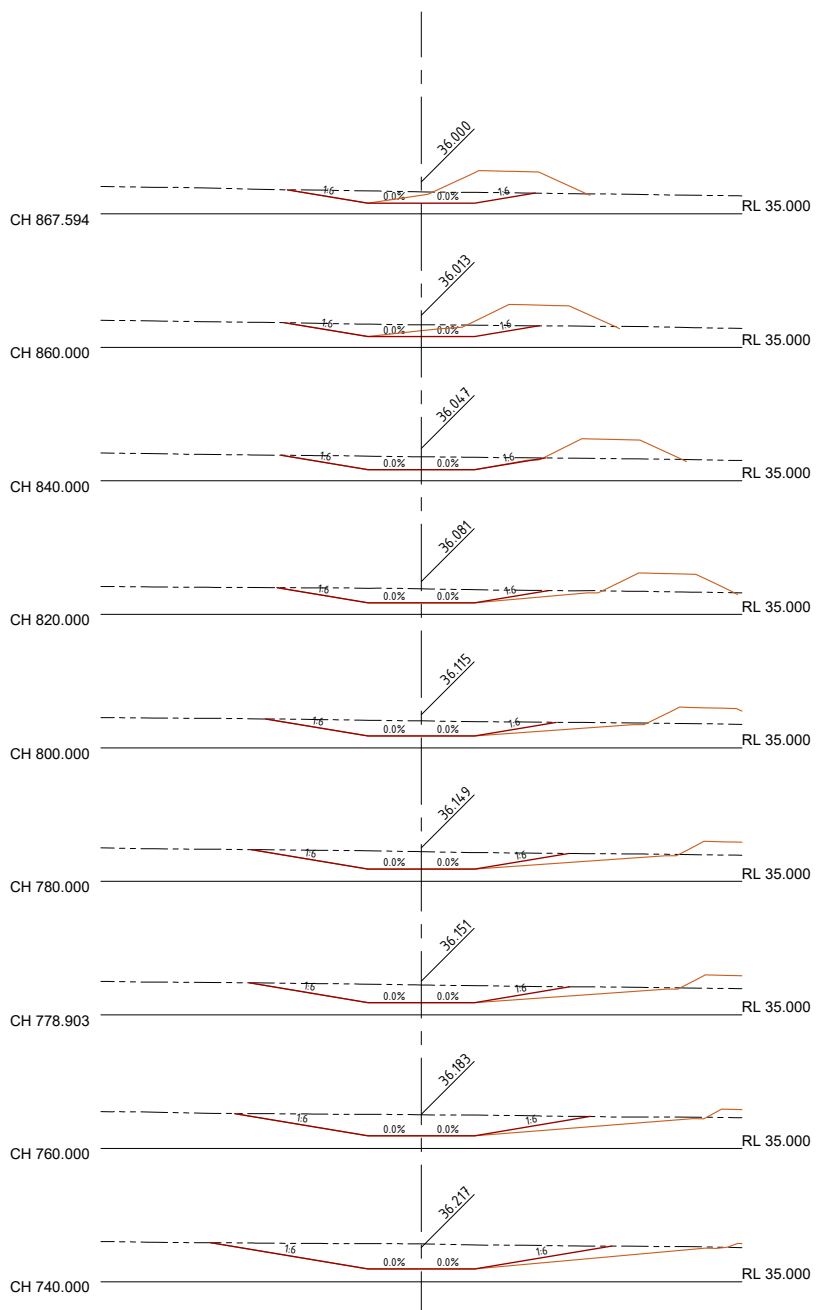
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 JOB NO: G1706/02

SCALE: 0 1500 HORZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER: G1706-02-TLO-11 1 12

PRINT IN COLOUR

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LEGEND
 — FINISHED SURFACE PROFILE
 — NOM TYPE CROSS SECTION
 - - - NATURAL SURFACE

Scale Horizontal 1:500 Vertical 1:500

DO NOT SCALE OFF DRAWING
 DIMENSIONS METERS UNO



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 CONSULTING ENGINEERS
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AMENDMENTS		
ISSUE DATE	SUBJECT	AUTHORISED
18/04/18	FIRST ISSUE	GR

XREF FILES	
DRAWING NO.	TITLE

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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 EMAIL: amec1@bigpond.net.au
 MACKAY

RPEQ 4321 APPROVED FOR ISSUE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL
 CENTRAL QUEENSLAND COAL PROJECT
 CIVIL WORKS
 TLO RAIL BALLOON LOOP
 LOOP DRAIN CROSS SECTIONS
 CH740 - CH867.594

FIL NO G1706-02-TL04.DWG
 JOB NO G1706/02

SCALE 0 1500 HORIZ 10 AT A3 SIZE
 0 1500 VERT 10

DRAWING NUMBER 1 ISSUE SHEET NO 12

PRINT IN COLOUR

DO NOT SCALE OFF DRAWING
DIMENSIONS METERS UNO



SURVEY DATUM MGA55; LEVELS
AHD; CONTOURS 0.5m FIN. SURFACE



COX ANDREWS ENGINEERS PTL
CONSULTING ENGINEERS
ACN 054 355 252
email: adslu3d8@tpg.com.au

NOT FOR CONSTRUCTION

AMENDMENTS		
ISSUE DATE	SUBJECT	APPROVED
11/18/04/18	FIRST ISSUE	OK

XREF FILES	
DRAWING NO.	TITLE
G1706-02-BASE	BASE PLAN

DRAWN: ASC DATE 22/07/17

DESIGN: ASC DATE 22/07/17



AUSTRALIAN MINING ENGINEERING CONSULTANTS
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MACKAY

RPEQ 4321 APPROVED FOR USE DATE 23/07/17

CENTRAL QUEENSLAND COAL PTL

CENTRAL QUEENSLAND COAL PROJECT

CIVIL WORKS

TLO RAIL BALLOON LOOP

LAYDOWN PAD

SETOUTS & FIN. SURF. LEVELS

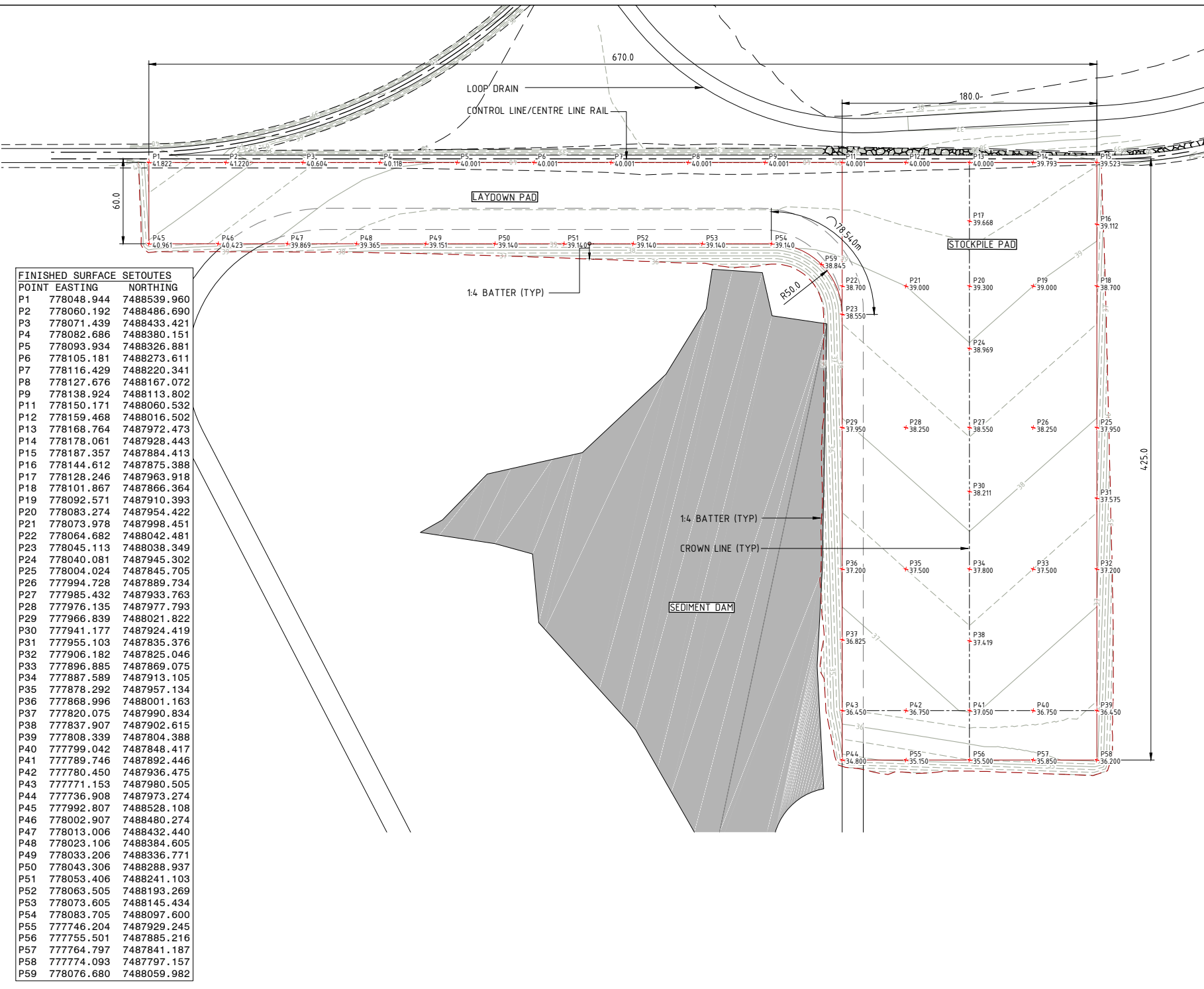
TITLE NO: G1706-02-TLO5.DWG

JOB NO: G1706/02

SCALE: 0 1:2500 HORZ 50 AT A3 SIZE

DRAWING NUMBER: G1706-02-TLO-14

ISSUE SHEET NO: 1 15



POINT	EASTING	NORTHING
P1	778048.944	7488539.960
P2	778060.192	7488486.690
P3	778071.439	7488433.421
P4	778082.686	7488380.151
P5	778093.934	7488326.881
P6	778105.181	7488273.611
P7	778116.429	7488220.341
P8	778127.676	7488167.072
P9	778138.924	7488113.802
P11	778150.171	7488060.532
P12	778159.468	7488016.502
P13	778168.764	7487972.473
P14	778178.061	7487928.443
P15	778187.357	7487884.413
P16	778144.612	7487875.388
P17	778128.246	7487963.918
P18	778101.867	7487866.364
P19	778092.571	7487910.393
P20	778083.274	7487954.422
P21	778073.978	7487998.451
P22	778064.682	7488042.481
P23	778045.113	7488038.349
P24	778040.081	7487945.302
P25	778004.024	7487845.705
P26	777994.728	7487889.734
P27	777985.432	7487933.763
P28	777976.135	7487977.793
P29	777966.839	7488021.822
P30	777941.177	7487924.419
P31	777955.103	7487835.376
P32	777906.182	7487825.046
P33	777896.885	7487869.075
P34	777887.589	7487913.105
P35	777878.292	7487957.134
P36	777868.996	7488001.163
P37	777820.075	7487990.834
P38	777837.907	7487902.615
P39	777808.339	7487804.388
P40	777799.042	7487848.417
P41	777789.746	7487892.446
P42	777780.450	7487936.475
P43	777771.153	7487980.505
P44	777736.908	7487973.274
P45	777992.807	7488528.108
P46	778002.907	7488480.274
P47	778013.006	7488432.440
P48	778023.106	7488384.605
P49	778033.206	7488336.771
P50	778043.306	7488288.937
P51	778053.406	7488241.103
P52	778063.505	7488193.269
P53	778073.605	7488145.434
P54	778083.705	7488097.600
P55	777746.204	7487929.245
P56	777755.501	7487885.216
P57	777764.797	7487841.187
P58	777774.093	7487797.157
P59	778076.680	7488059.982

E:\Jobs Current\Styx (G1706-02)\ACAD\Production\G1706-02-TLO5 (TLO Pads).dwg, TLO14-15, 21/08/2018 2:37:40 PM

PRINT IN COLOUR