

PROPOSED INDUSTRIAL SUBDIVISION

OLD CASTLEREAGH ROAD, CASTLEREAGH
PENRITH LAKES BUSINESS PARK

GREAT RIVER NSW PTY LTD

PENRITH CITY COUNCIL

CONCEPT CIVIL ENGINEERING PLANS FOR DEVELOPMENT APPLICATION

DRAWING SCHEDULE

DWG No.	SHEET TITLE	REV
C00	COVER SHEET	1
C01	GENERAL ARRANGEMENT PLAN	1
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C03	PLAN SHEET (2 OF 2)	1
C04	NOT USED	1
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C06	SITE SECTIONS (2 OF 2)	1
C07	TYPICAL SECTIONS	1
C08	VEHICLE TURNING MOVEMENTS (1 OF 3)	1
C09	VEHICLE TURNING MOVEMENTS (2 OF 3)	1
C10	VEHICLE TURNING MOVEMENTS (3 OF 3)	1
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C13	ROAD 2 LONGITUDINAL SECTION	1
C14	ROAD 3 LONGITUDINAL SECTION (1 OF 2)	1
C15	ROAD 3 LONGITUDINAL SECTION (2 OF 2)	1
C16	ROAD 4 LONGITUDINAL SECTION	1
C17	ROAD 5 LONGITUDINAL SECTION	1



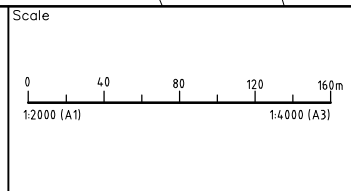
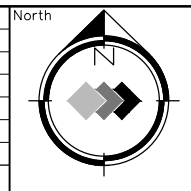
A.B.N. 92 086 017 745
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PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	DB	AS	19.11.18



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Designed
KS
Scale
1:2000
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
18255 C01 r1
A1 SHEET

Client

GCA
ENGINEERING SOLUTIONS
A.B.N. 92 086 017 745
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**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
GENERAL ARRANGEMENT PLAN

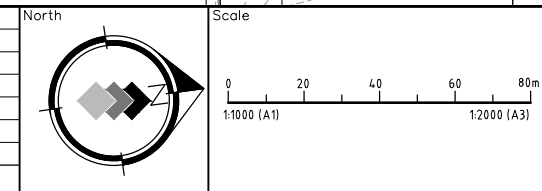
Project No	18255C
Drawing No	C01
Revision	1



LEGEND

	STORMWATER PIPE
	EKI PIT
	SAG PIT
	HEADWALL
	INTERLOT DRAINAGE PIPE
	INTERLOT DRAINAGE PIT
	CONCEPT SEWER POSITION
	CONCEPT REGRADING DIRECTION OF FALL
	CONCEPT FINISHED LEVEL CONTOUR (MAJOR)
	CONCEPT FINISHED LEVEL CONTOUR (MINOR)
	CONCEPT FINISHED LEVEL LABEL

1	ORIGINAL ISSUE	DB	AS	19.11.18
Amendment	Description	Drawn	App'd	Date














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		Scale	A1 SHEET	
		1:1000		
		Project Approval		
		IAN HILL (B.E)		
		Consulting Civil Engineer		

GCA
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PROPOSED SUBDIVISION		Project No
PENRITH LAKES INDUSTRIAL		18255C
PENRITH		Drawing No
PLAN SHEET (1 OF 2)		C02
		Revision
		1

LEGEND

-  STORMWATER PIPE
-  EKI PIT
-  SAG PIT
-  HEADWALL
-  INTERLOTMENT DRAINAGE PIPE
-  INTERLOTMENT DRAINAGE PIT
-  CONCEPT SEWER POSITION
-  0.5% MIN FALL CONCEPT REGRADING DIRECTION OF FALL
-  CONCEPT FINISHED LEVEL CONTOUR (MAJOR)
-  CONCEPT FINISHED LEVEL CONTOUR (MINOR)
-  29.00 CONCEPT FINISHED LEVEL LABEL

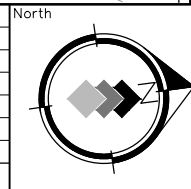


DWG C03

DWG C02

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KS
Scale
1:1000
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

Cad Reference
18255 C03 r1
A1 SHEET

Client



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**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH
PLAN SHEET (2 OF 2)**

Project No 18255C	
Drawing No C03	Revision 1

DATUM RL = 12.00

CHAINAGE	NATURAL SURFACE	FINISHED SURFACE
0.00		
10.00		
20.00		
30.00		
40.00		
50.00		
60.00	27.113	27.803
70.00	27.182	27.984
80.00	27.242	27.880
90.00	27.338	27.775
100.00	27.360	27.670
110.00	27.361	27.566
120.00	27.374	27.461
130.00	27.396	27.357
140.00	27.471	27.252
150.00	27.520	27.147
160.00	27.547	27.043
170.00	27.555	26.938
180.00	27.537	26.836
190.00	27.505	26.754
200.00	27.482	26.694
210.00	27.411	26.549
220.00	27.265	26.529
230.00	27.103	26.246
240.00	26.971	26.121
250.00	26.994	26.543
260.00	26.955	26.683
270.00	26.846	26.761
280.00	26.758	27.019
290.00	26.780	27.179
300.00	26.659	27.323
310.00	26.509	27.472
320.00	26.487	27.622
330.00	26.463	27.771
340.00	26.336	27.920
350.00	26.174	28.069
360.00	26.126	28.154
370.00	26.117	28.174
380.00	26.113	28.138
390.00	26.080	28.052
400.00	25.983	27.952
410.00	25.870	27.852
420.00	25.747	27.752
430.00	25.575	27.652
440.00	25.345	27.552
450.00	25.253	27.452
460.00	25.033	27.352
470.00	24.787	27.252
480.00	24.734	27.158
490.00	24.761	26.545
500.00	24.550	27.142
510.00	24.530	27.229
520.00	24.527	27.333
530.00	24.548	27.437
540.00	24.576	27.541
550.00	24.568	27.692
560.00	24.680	27.823
570.00	24.824	27.944
580.00	25.010	28.012
590.00	25.265	27.918
600.00	25.567	27.875
610.00	25.731	28.033
620.00	25.605	28.083
630.00	26.159	28.133
640.00	26.555	28.182
650.00	25.938	28.231
660.00	25.670	26.572
670.00		
678.075		

A1 SCALE: HORIZONTAL 1:1500, VERTICAL 1:250

SITE SECTION 3

DATUM RL = 11.00

CHAINAGE	NATURAL SURFACE	FINISHED SURFACE
0.00		26.154
10.00	26.287	26.287
20.00	26.420	26.420
30.00	26.344	26.494
40.00	26.331	29.007
50.00	26.137	28.813
60.00	26.160	29.815
70.00	26.273	28.814
80.00	26.418	29.828
90.00	26.346	28.883
100.00	26.307	29.924
110.00	26.381	29.938
120.00	26.388	29.948
130.00	26.431	29.939
140.00	26.499	29.916
150.00	26.434	29.910
160.00	26.365	28.838
170.00	26.166	29.773
180.00	25.702	29.682
190.00	25.516	29.577
200.00	25.368	29.373
210.00	25.434	29.264
220.00	25.514	26.286
230.00	25.471	25.845
240.00	25.388	25.397
250.00	25.499	29.117
260.00	25.492	28.858
270.00	25.498	28.933
280.00	25.477	28.859
290.00	25.460	28.734
300.00	25.480	28.611
310.00	25.527	28.491
320.00	25.496	28.376
330.00	25.440	28.262
340.00	25.402	28.147
350.00	25.390	28.032
360.00	25.344	27.918
370.00	25.305	27.803
380.00	25.363	27.689
390.00	25.396	27.574
400.00	25.378	27.460
410.00	25.371	27.354
420.00	25.462	27.263
430.00	25.733	27.203
440.00	25.825	26.849
450.00	25.913	27.240
460.00	25.957	27.329
470.00	25.986	27.427
480.00	25.947	27.527
490.00	25.889	27.627
500.00	25.876	27.727
510.00	25.870	27.827
520.00	25.856	27.915
530.00	25.865	27.979
540.00	25.778	28.020
550.00	25.753	28.025
560.00	25.770	27.990
570.00	25.740	27.916
580.00	25.824	27.817
590.00	25.868	27.717
600.00	25.794	27.617
610.00	25.503	27.517
620.00	25.131	27.417
630.00	24.601	27.317
640.00	24.346	27.217
650.00	24.110	27.117
660.00	23.723	27.017
670.00	23.667	26.948
680.00	23.719	26.945
690.00	23.771	27.003
700.00	23.764	27.105
710.00	23.792	27.242
720.00	23.908	27.383
730.00	23.895	27.394
740.00	23.903	27.448
750.00	23.966	27.509
760.00	23.982	27.550
770.00	23.883	27.548
780.00	23.818	27.464
790.00	23.828	27.411
800.00	23.952	27.532
810.00	24.143	27.582
820.00	24.554	27.632
830.00	25.078	27.682
840.00	25.718	27.732
850.00	26.285	27.782
860.00	26.257	27.691
870.00	25.217	25.217
880.00	25.072	25.072
884.593	25.068	25.068

A1 SCALE: HORIZONTAL 1:1500, VERTICAL 1:250

SITE SECTION 2

DATUM RL = 11.00

CHAINAGE	NATURAL SURFACE	FINISHED SURFACE
0.00		25.398
10.00	25.351	25.351
20.00	25.336	25.336
30.00	25.341	26.823
40.00	25.331	26.539
50.00	25.245	28.556
60.00	25.245	28.574
70.00	25.183	28.591
80.00	25.113	28.608
90.00	25.053	28.603
100.00	25.034	28.576
110.00	24.991	28.550
120.00	24.846	27.912
130.00	24.658	27.160
140.00	24.565	27.396
150.00	24.574	27.376
160.00	24.586	27.354
170.00	24.684	27.072
180.00	24.505	27.292
190.00	24.291	27.453
200.00	24.265	27.641
210.00	24.243	27.830
220.00	24.201	28.003
230.00	24.179	28.103
240.00	24.185	28.203
250.00	24.210	28.303
260.00	24.284	28.403
270.00	24.244	28.503
280.00	24.258	28.603
290.00	24.296	28.701
300.00	24.282	28.767
310.00	24.285	28.771
320.00	24.312	28.709
330.00	24.322	28.613
340.00	24.307	28.513
350.00	24.317	28.413
360.00	24.406	28.313
370.00	24.472	28.213
380.00	24.484	28.113
390.00	24.537	28.013
400.00	24.622	27.913
410.00	24.588	27.813
420.00	24.574	27.715
430.00	24.585	27.648
440.00	24.613	27.633
450.00	24.637	27.690
460.00	24.712	27.784
470.00	24.809	27.884
480.00	24.906	27.984
490.00	25.018	28.084
500.00	25.118	28.184
510.00	25.140	28.284
520.00	25.252	28.384
530.00	25.437	28.484
540.00	25.564	28.577
550.00	25.593	28.645
560.00	25.559	28.657
570.00	25.525	28.597
580.00	25.605	28.503
590.00	25.399	28.403
600.00	25.294	28.303
610.00	25.293	28.203
620.00	25.313	28.103
630.00	25.170	28.003
640.00	24.926	27.903
650.00	24.706	27.803
660.00	24.644	27.706
670.00	24.704	27.639
680.00	24.779	27.636
690.00	24.718	27.698
700.00	24.769	27.784
710.00	24.861	27.856
720.00	24.919	27.931
730.00	24.887	28.011
740.00	24.903	28.089
750.00	24.919	28.168
760.00	24.856	28.243
770.00	24.681	28.322
780.00	24.562	28.397
790.00	24.935	28.476
800.00	25.260	28.544
810.00	25.258	28.608
820.00	25.230	28.670
830.00	25.277	28.731
840.00	25.421	28.796
850.00	25.581	28.862
860.00	26.623	28.926
870.00	25.585	27.420
880.00	24.259	24.908
890.00	24.534	24.534
896.951	24.550	24.550

A1 SCALE: HORIZONTAL 1:1500, VERTICAL 1:250

SITE SECTION 1

PRELIMINARY ISSUE
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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	DB	AS	19.11.18

North	Scale
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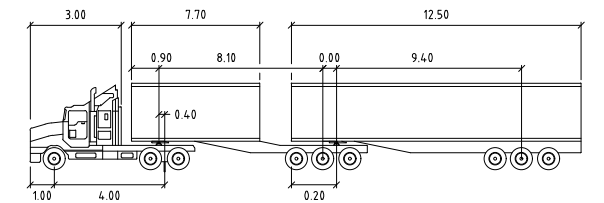
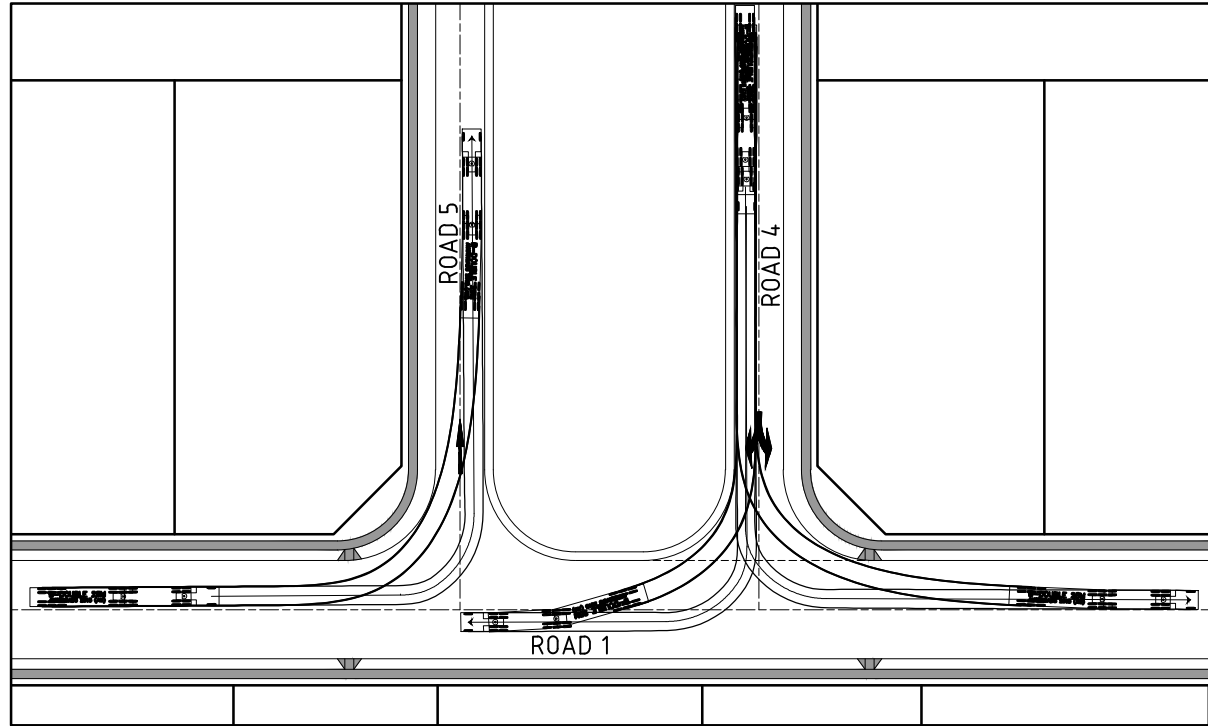
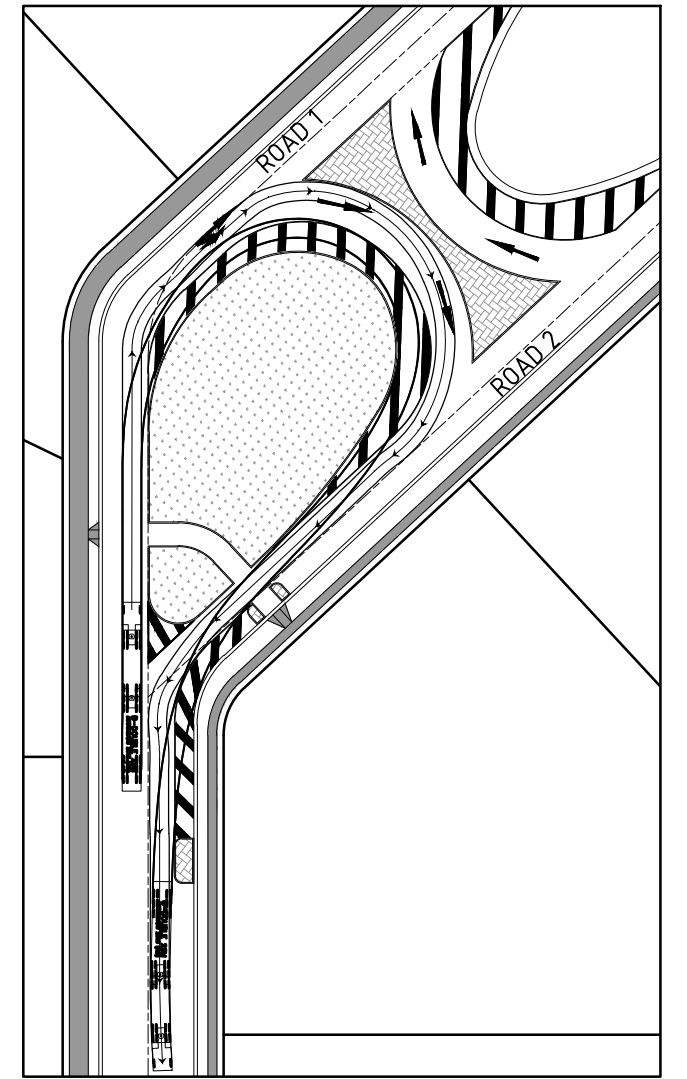
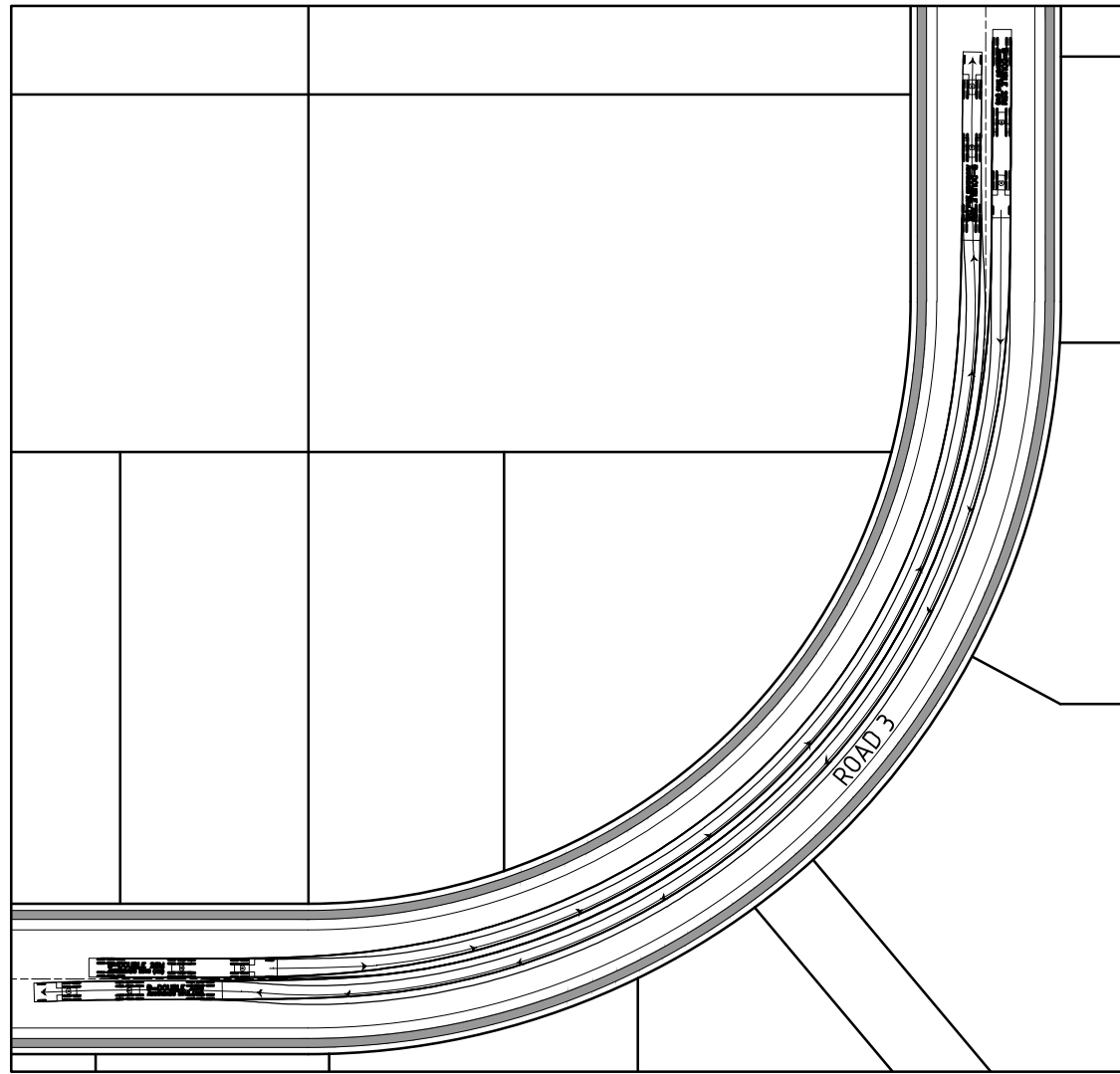
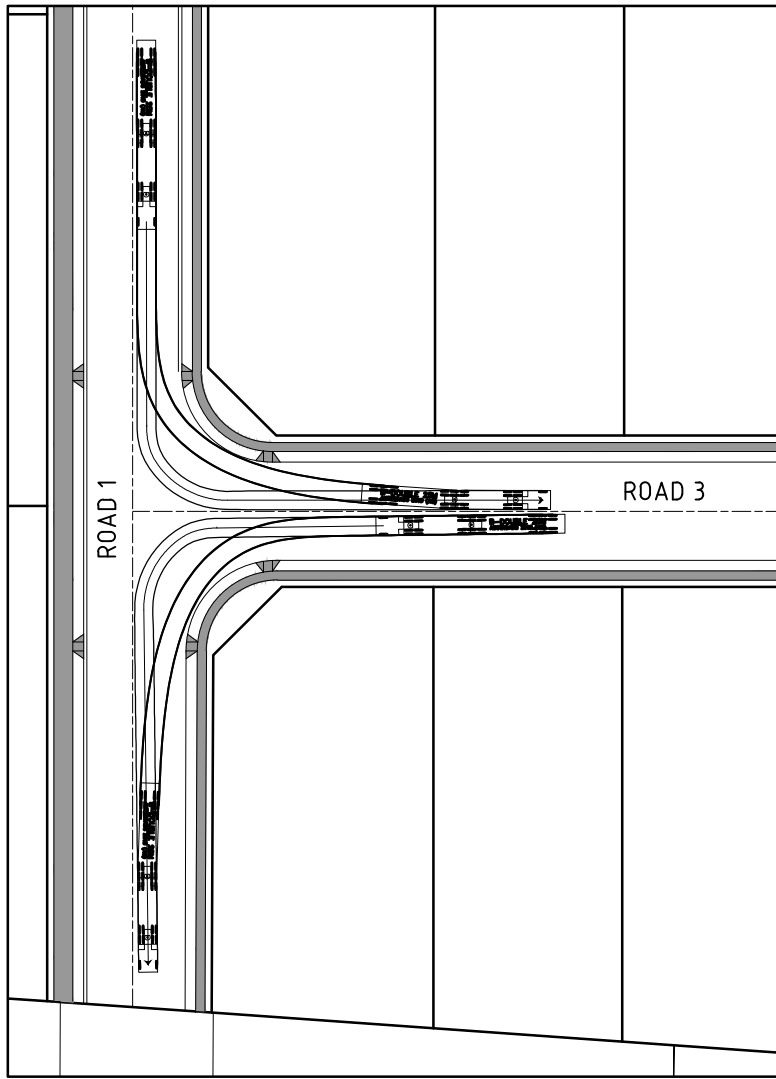
Designed KS	Cad Reference 18255 C05 r1
Scale -	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client



**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
SITE SECTIONS (1 OF 2)

Project No 18255C	Revision 1
Drawing No C05	

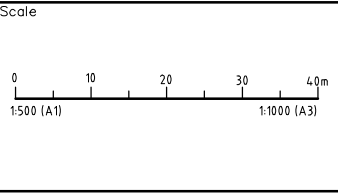
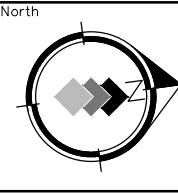


B-DOUBLE 25M

	meters		meters
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 20.7
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

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Designed
KS
Scale
1:500
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

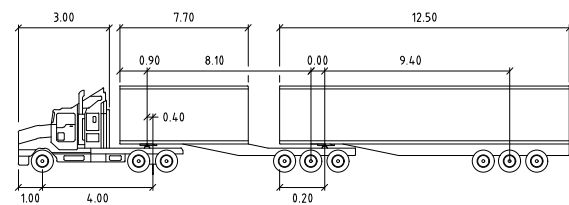
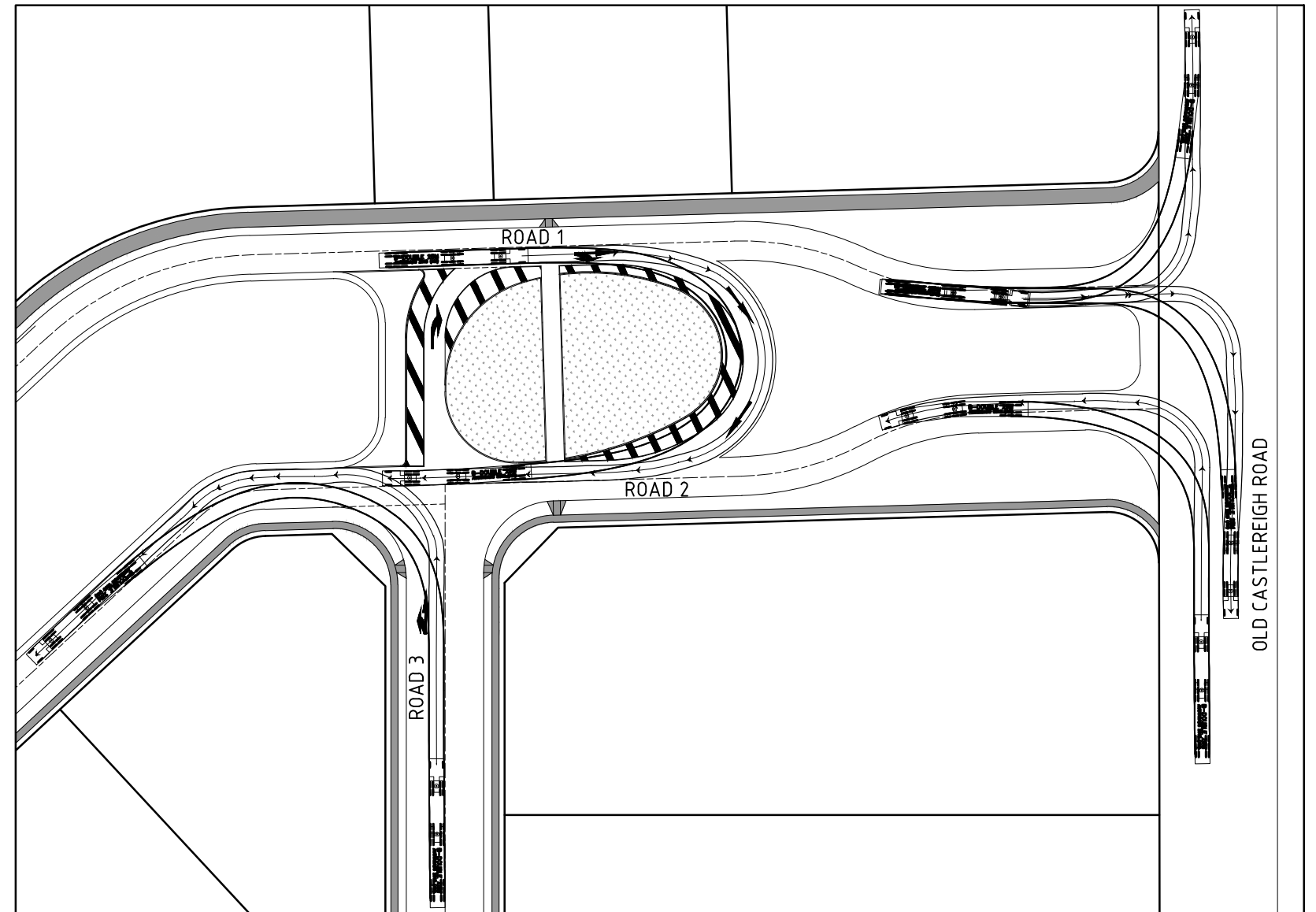
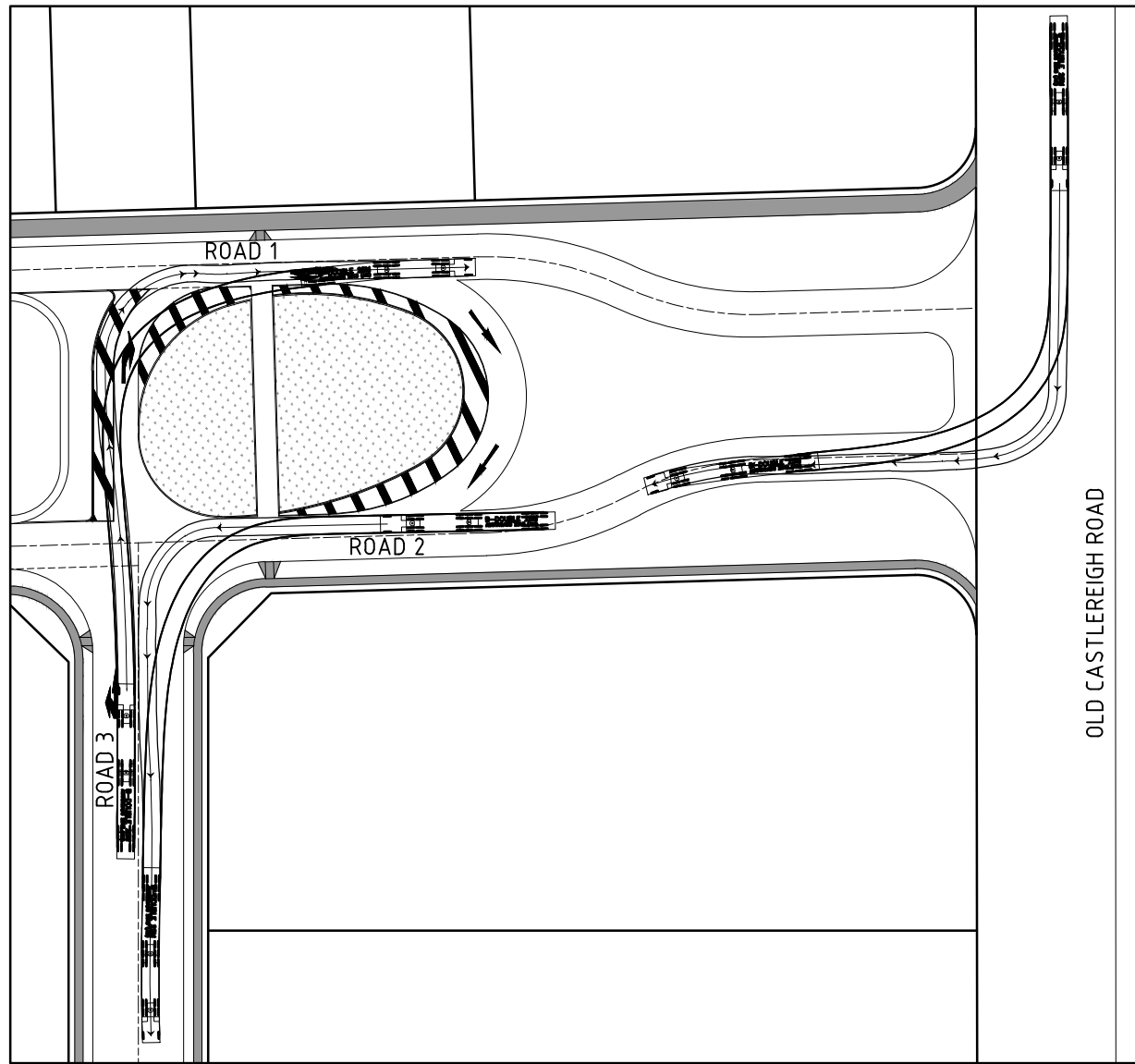
Cad Reference
18255 C08 r1
A1 SHEET

Client

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**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
VEHICLE TURNING MOVEMENTS (1 OF 3)

Project No	18255C
Drawing No	C08
Revision	1

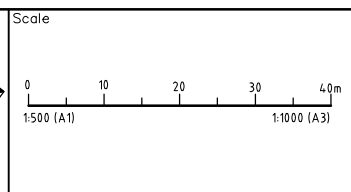
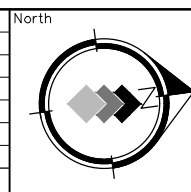


B-DOUBLE 25M

meters			
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 20.7
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

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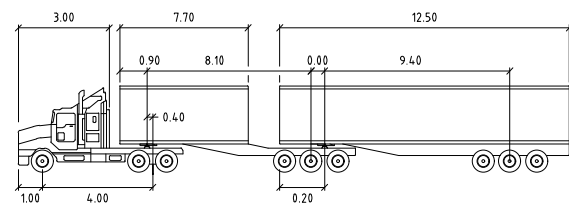
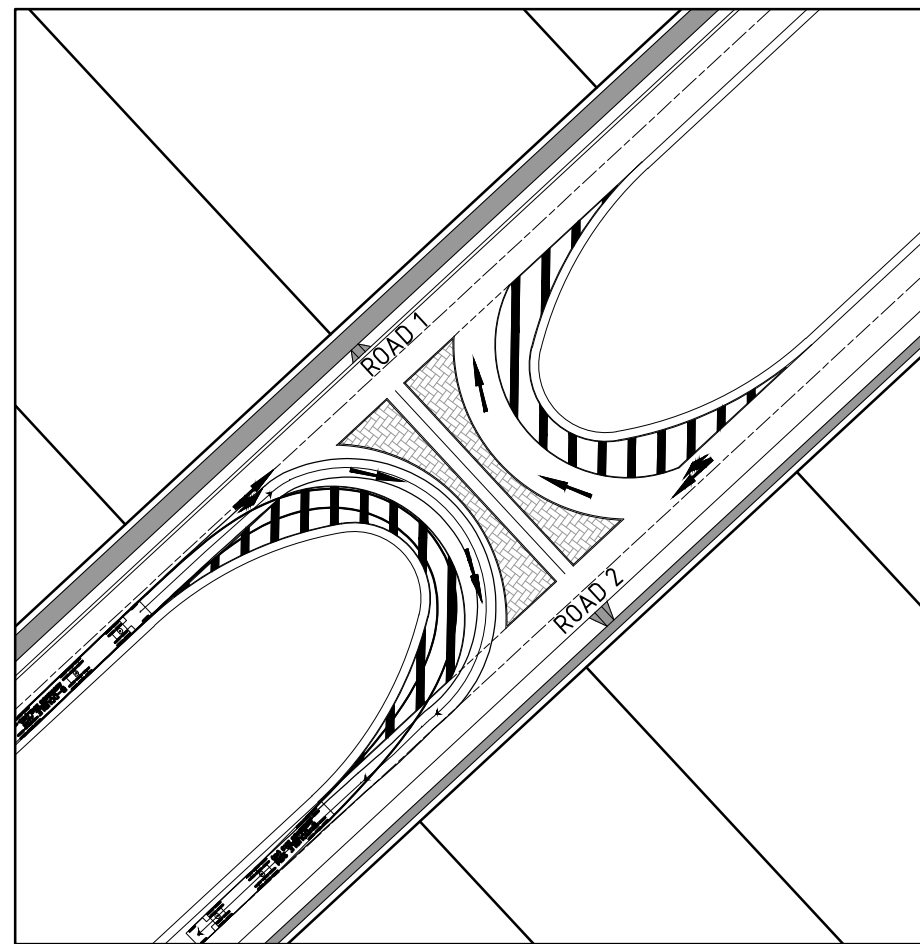
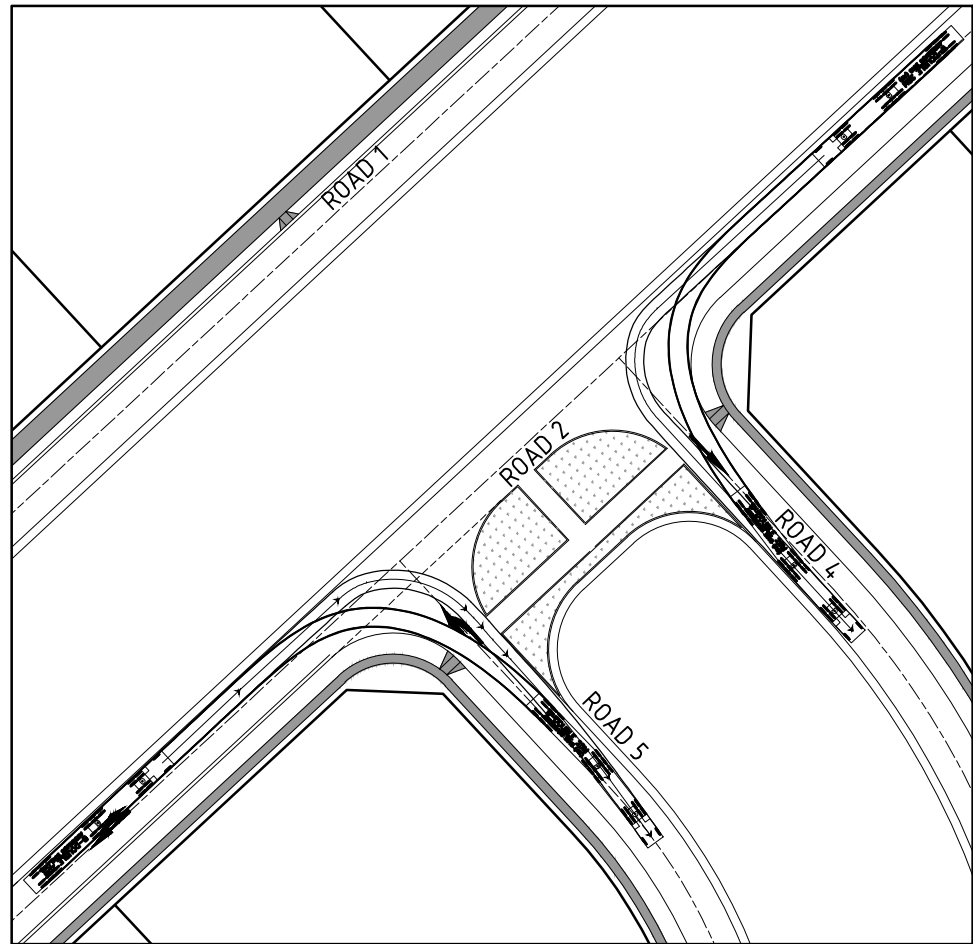
Designed KS	Cad Reference 18255 C09 r1
Scale 1:500	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

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**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
VEHICLE TURNING MOVEMENTS (2 OF 3)

Project No 18255C
Drawing No C09
Revision 1

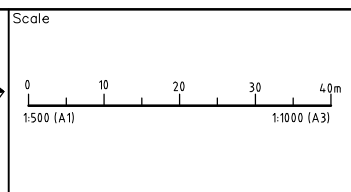
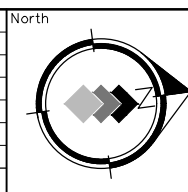


B-DOUBLE 25M

Tractor		Trailer	
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 20.7
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	DB	AS	19.11.18



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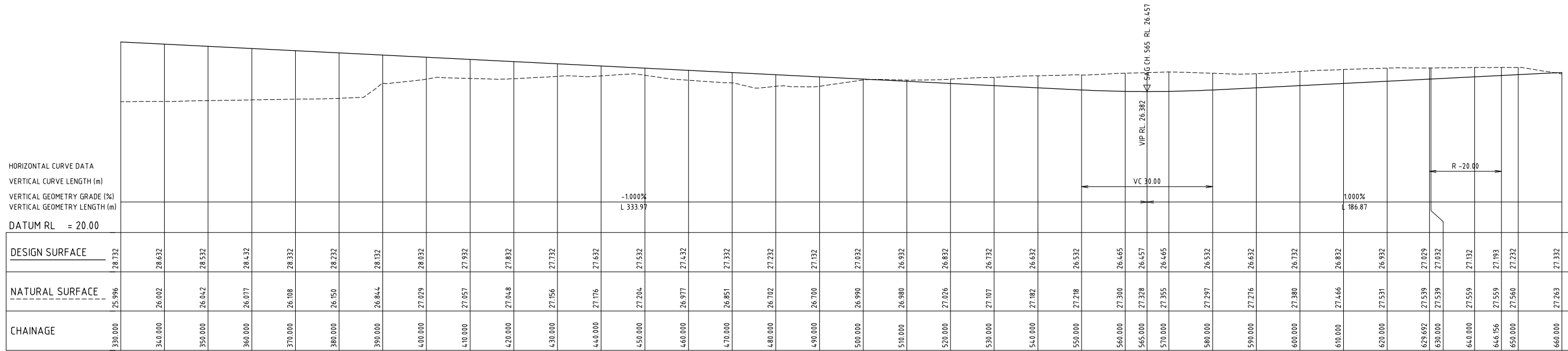
Designed KS	Cad Reference 18255 C10 r1
Scale 1:500	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

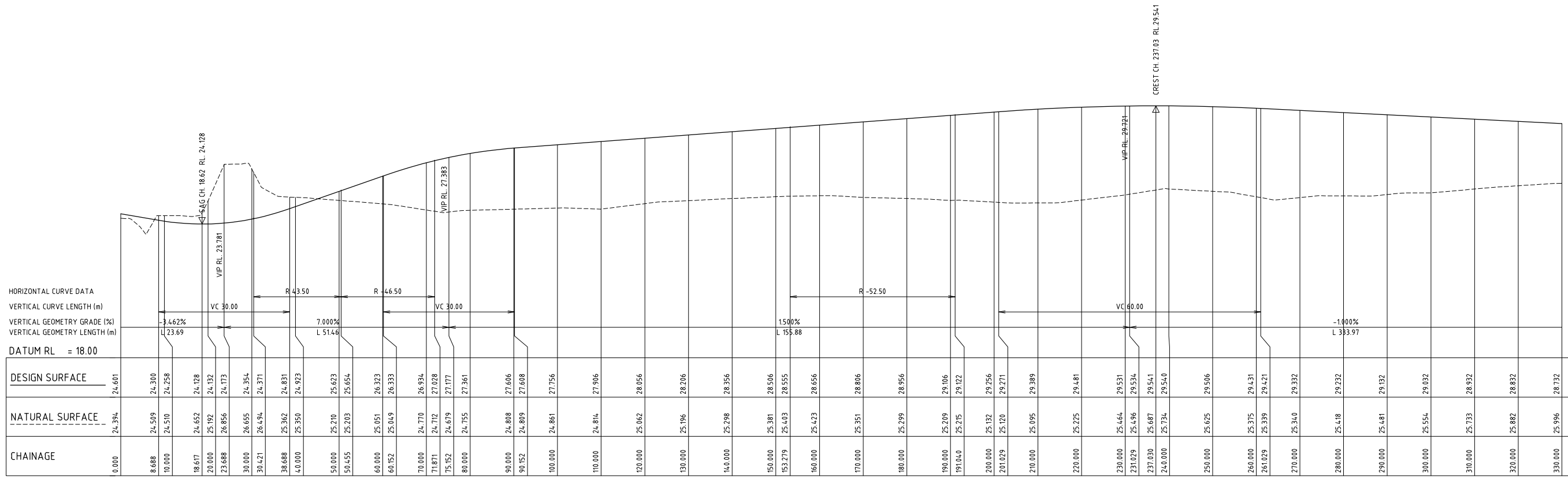
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**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
VEHICLE TURNING MOVEMENTS (3 OF 3)

Project No 18255C
Drawing No C10
Revision 1



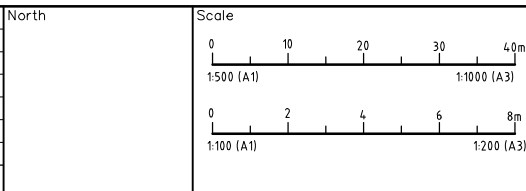
A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
LONGITUDINAL SECTION ROAD 1



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
LONGITUDINAL SECTION ROAD 1

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Designed
KS
Scale
1:500/1:100
Project Approval
IAN HILL (B.E)
Consulting Civil Engineer

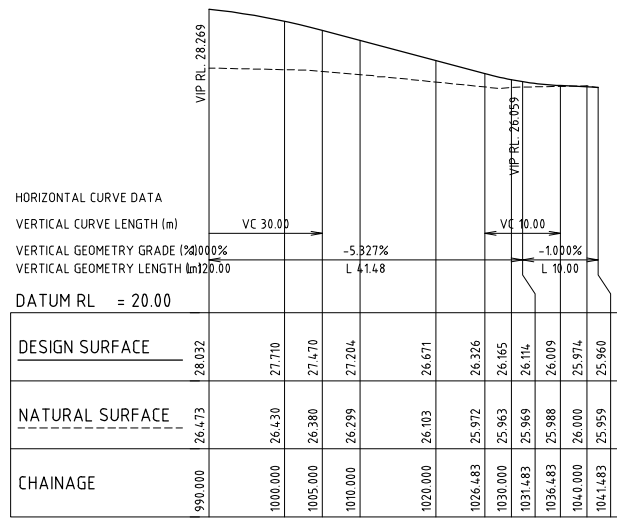
Cad Reference
18255 C11 r1
A1 SHEET

Client

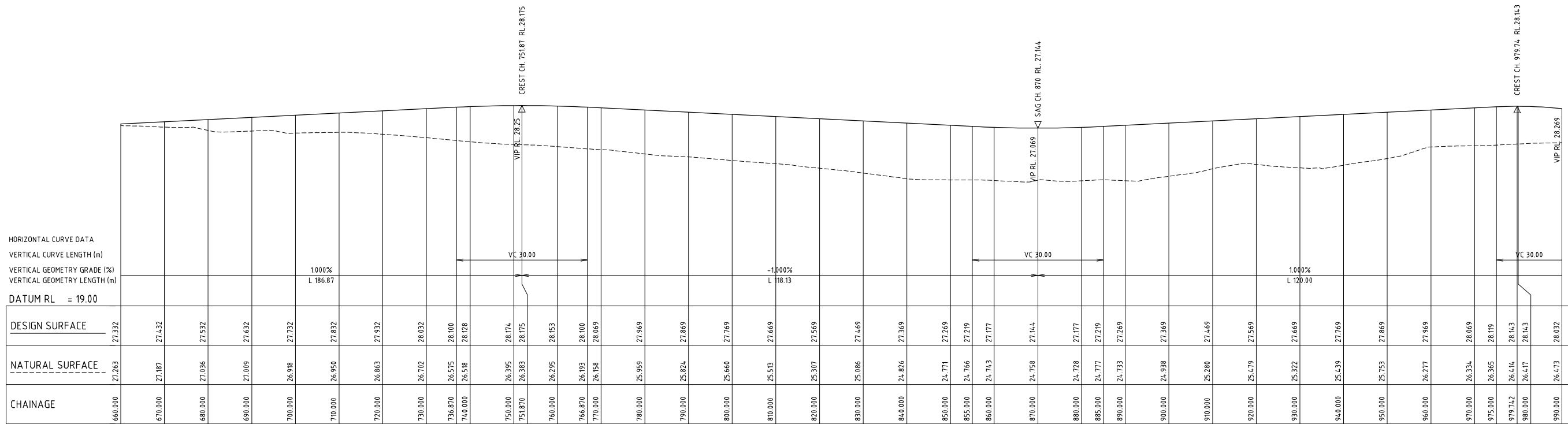


**PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
PENRITH**
ROAD 1 LONGITUDINAL SECTION (1 OF 2)

Project No 18255C	Revision 1
Drawing No C11	



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 1

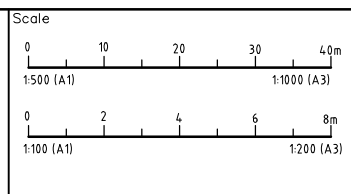


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 1

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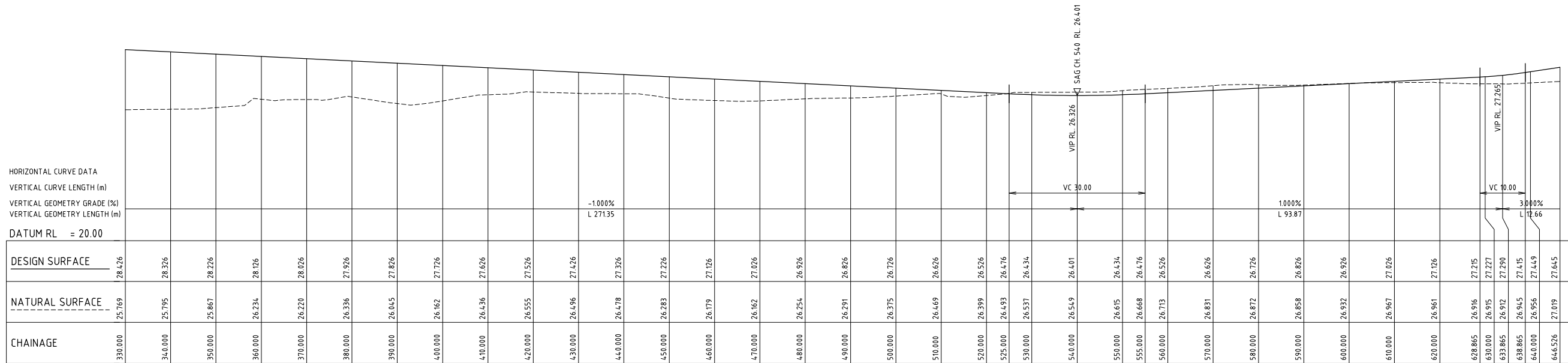
Designed KS	Cad Reference 18255 C12 r1
Scale 1:500/1:100	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

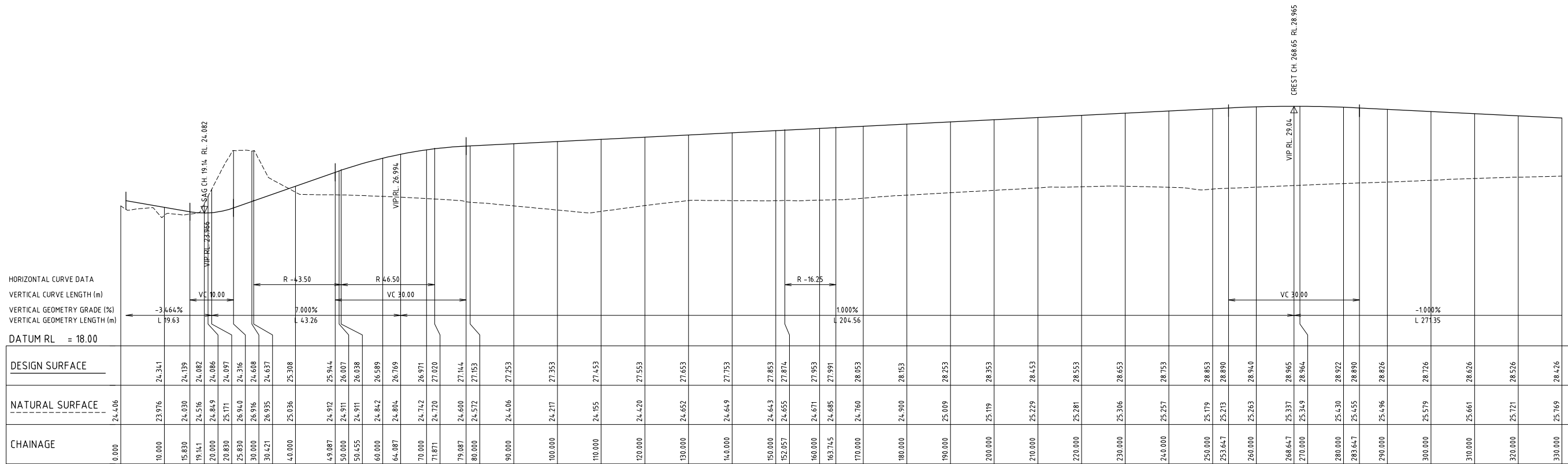
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PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
 PENRITH
 ROAD 1 LONGITUDINAL SECTION (2 OF 2)

Project No 18255C
Drawing No C12
Revision 1



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 2

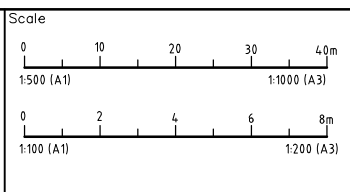


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 2

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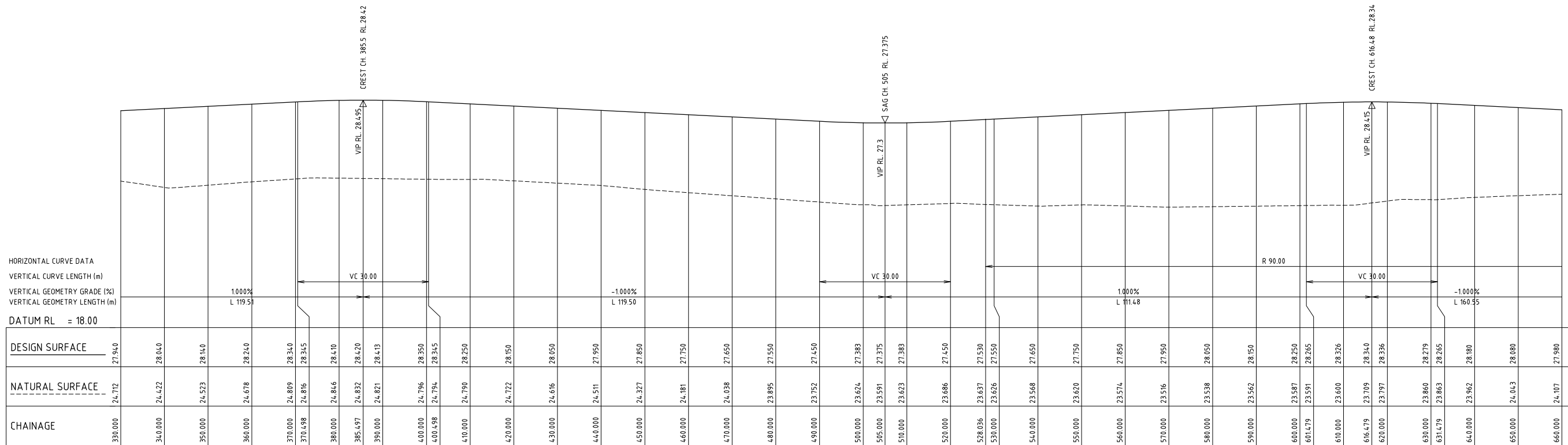
Designed KS	Cad Reference 18255 C13 r1
Scale 1:500/1:100	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

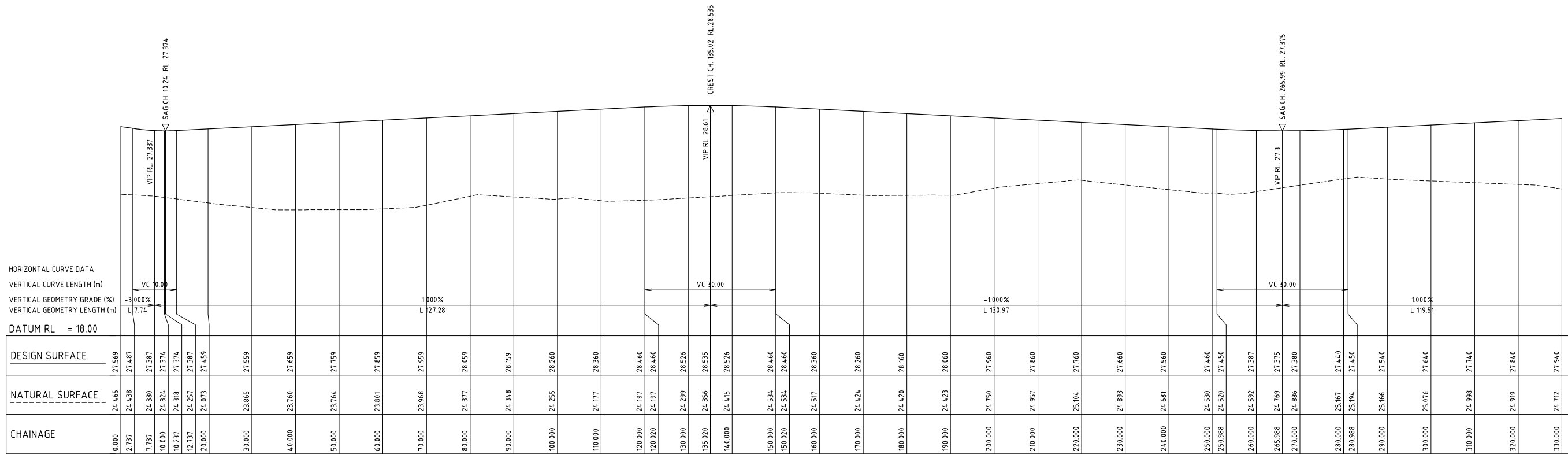
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PROPOSED SUBDIVISION
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 PENRITH
 ROAD 2 LONGITUDINAL SECTION

Project No 18255C
Drawing No C13
Revision 1



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 3

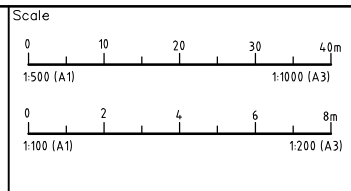


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 3

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Project Approval IAN HILL (B.E) Consulting Civil Engineer	

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**PROPOSED SUBDIVISION
 PENRITH LAKES INDUSTRIAL
 PENRITH**
 ROAD 3 LONGITUDINAL SECTION (1 OF 2)

Project No 18255C
Drawing No C14
Revision 1

HORIZONTAL CURVE DATA
 VERTICAL CURVE LENGTH (m)
 VERTICAL GEOMETRY GRADE (%)
 VERTICAL GEOMETRY LENGTH (m)
 DATUM RL = 17.00

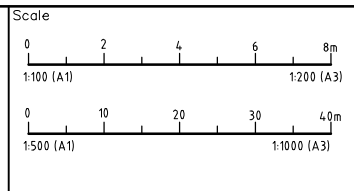
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670.000	27.880	23.992
680.000	27.780	23.930
690.000	27.680	23.975
700.000	27.580	23.995
710.000	27.480	23.853
720.000	27.380	23.794
730.000	27.280	23.768
740.000	27.180	23.683
750.000	27.080	23.681
760.000	26.980	23.602
762.026	26.959	23.575
770.000	26.901	23.490
777.026	26.884	23.480
780.000	26.887	23.476
790.000	26.940	23.471
792.026	26.959	23.470
800.000	27.039	23.489
810.000	27.139	23.599
820.000	27.239	24.008
830.000	27.339	24.155
840.000	27.439	24.518
850.000	27.539	24.876
860.000	27.639	25.107
870.000	27.739	25.055
880.000	27.839	25.019
890.000	27.939	25.093
894.728	27.986	25.122
900.000	28.030	25.139
909.728	28.061	25.180
910.000	28.061	25.181
920.000	28.026	25.363
924.728	27.986	25.448
930.000	27.934	25.510
940.000	27.834	25.694
950.000	27.734	25.789
953.556	27.698	25.805
956.056	27.686	25.812
958.556	27.698	25.818
960.000	27.717	25.820
963.556	27.798	26.100
970.000	27.991	26.380
974.408	28.124	26.374

A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 3

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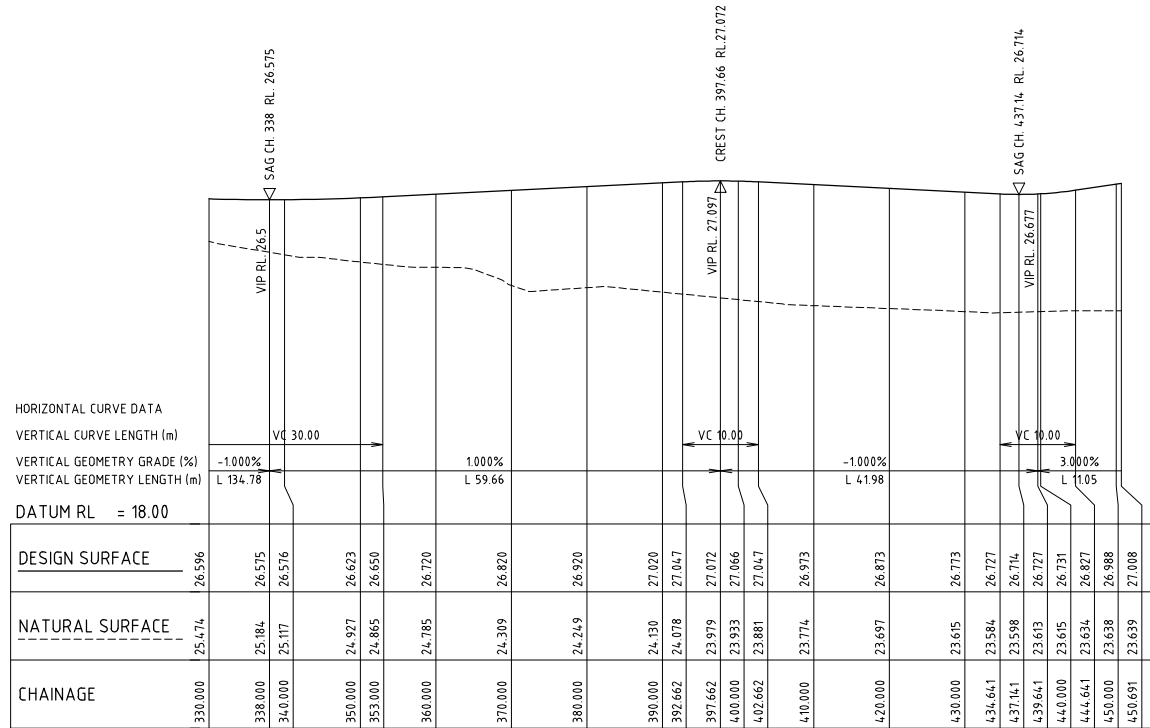
Designed KS	Cad Reference 18255 C15 r1
Scale 1:500/1:100	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

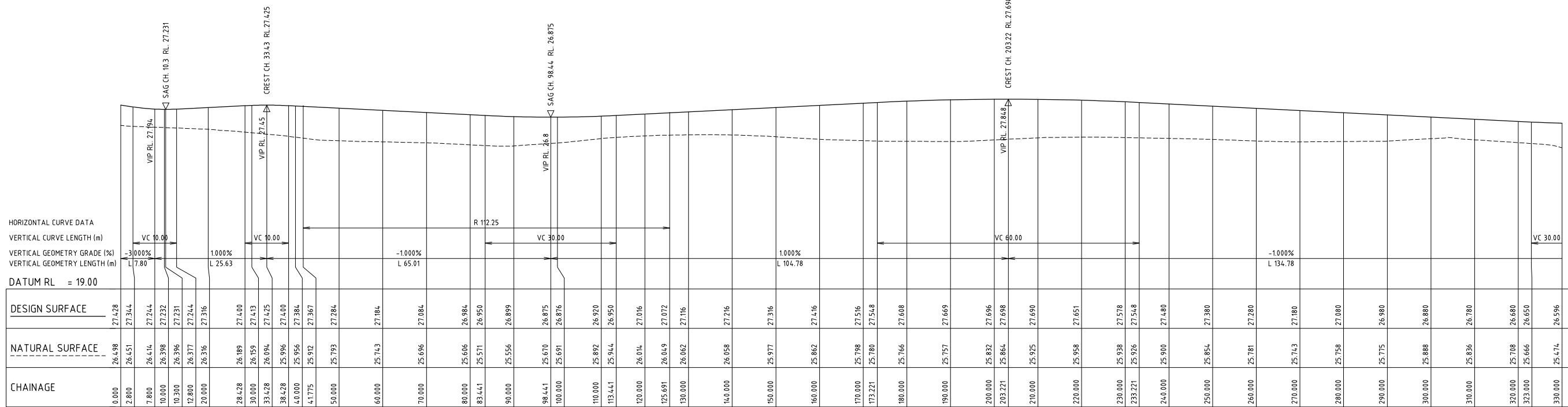
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**PROPOSED SUBDIVISION
 PENRITH LAKES INDUSTRIAL
 PENRITH**
 ROAD 3 LONGITUDINAL SECTION (2 OF 2)

Project No 18255C
Drawing No C15
Revision 1



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 4

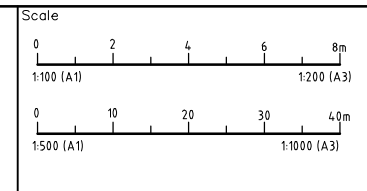


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 4

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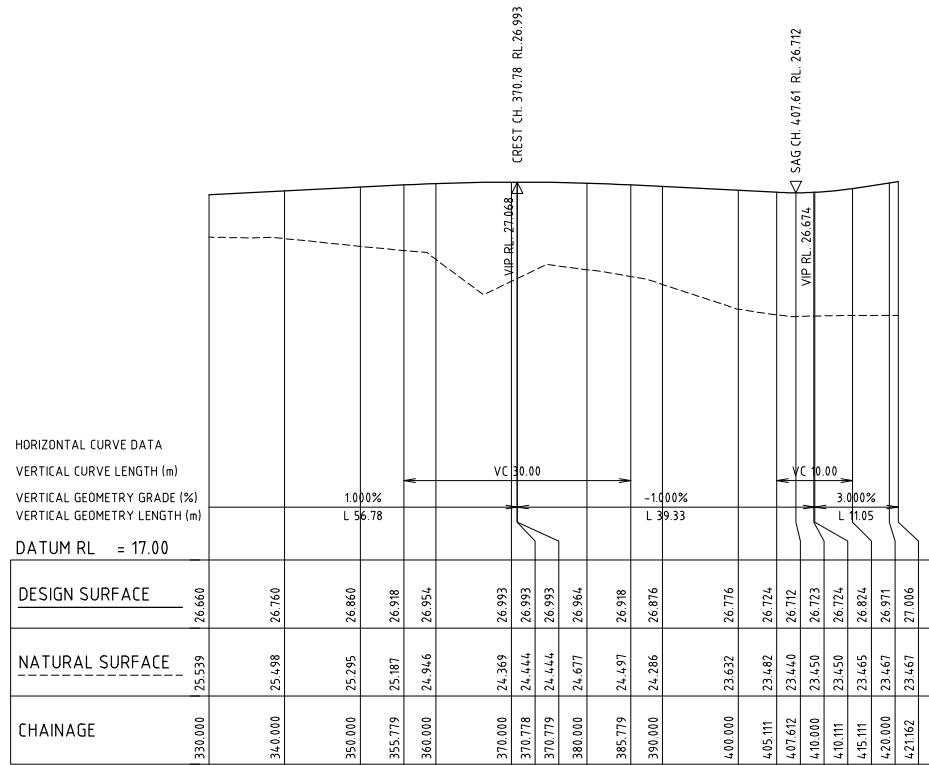
Designed KS	Cad Reference 18255 C16 r1
Scale 1:500/1:100	A1 SHEET
Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

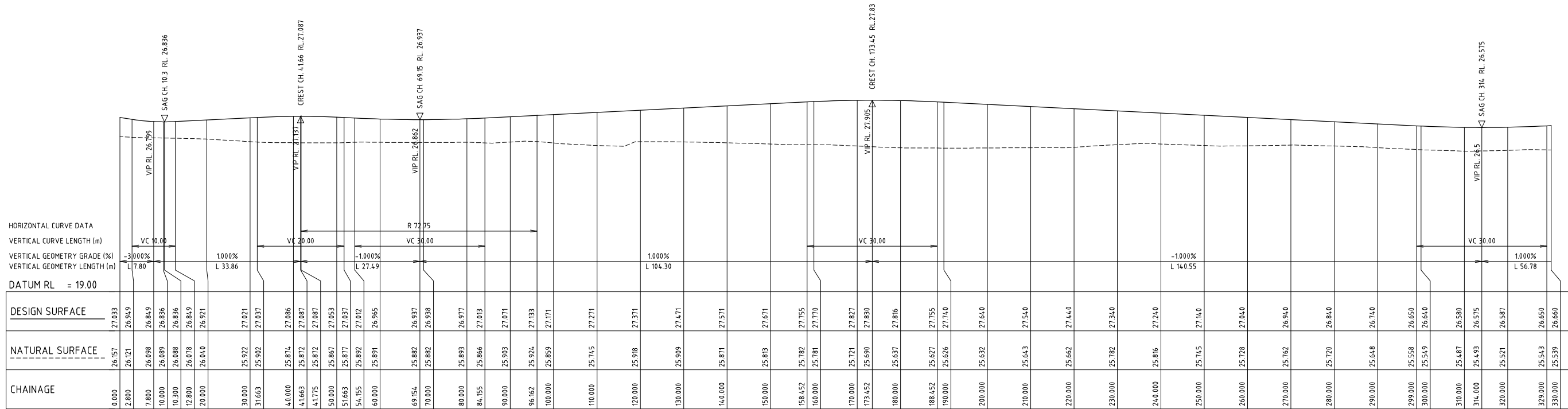


PROPOSED SUBDIVISION
PENRITH LAKES INDUSTRIAL
 PENRITH
 ROAD 4 LONGITUDINAL SECTION

Project No 18255C
Drawing No C16
Revision 1



A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 5

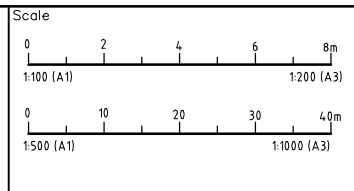


A1 SCALE: HORIZONTAL 1:500, VERTICAL 1:100
 LONGITUDINAL SECTION ROAD 5

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Project Approval IAN HILL (B.E) Consulting Civil Engineer	

Client

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**PROPOSED SUBDIVISION
 PENRITH LAKES INDUSTRIAL
 PENRITH**
 ROAD 5 LONGITUDINAL SECTION

Project No 18255C
Drawing No C17
Revision 1