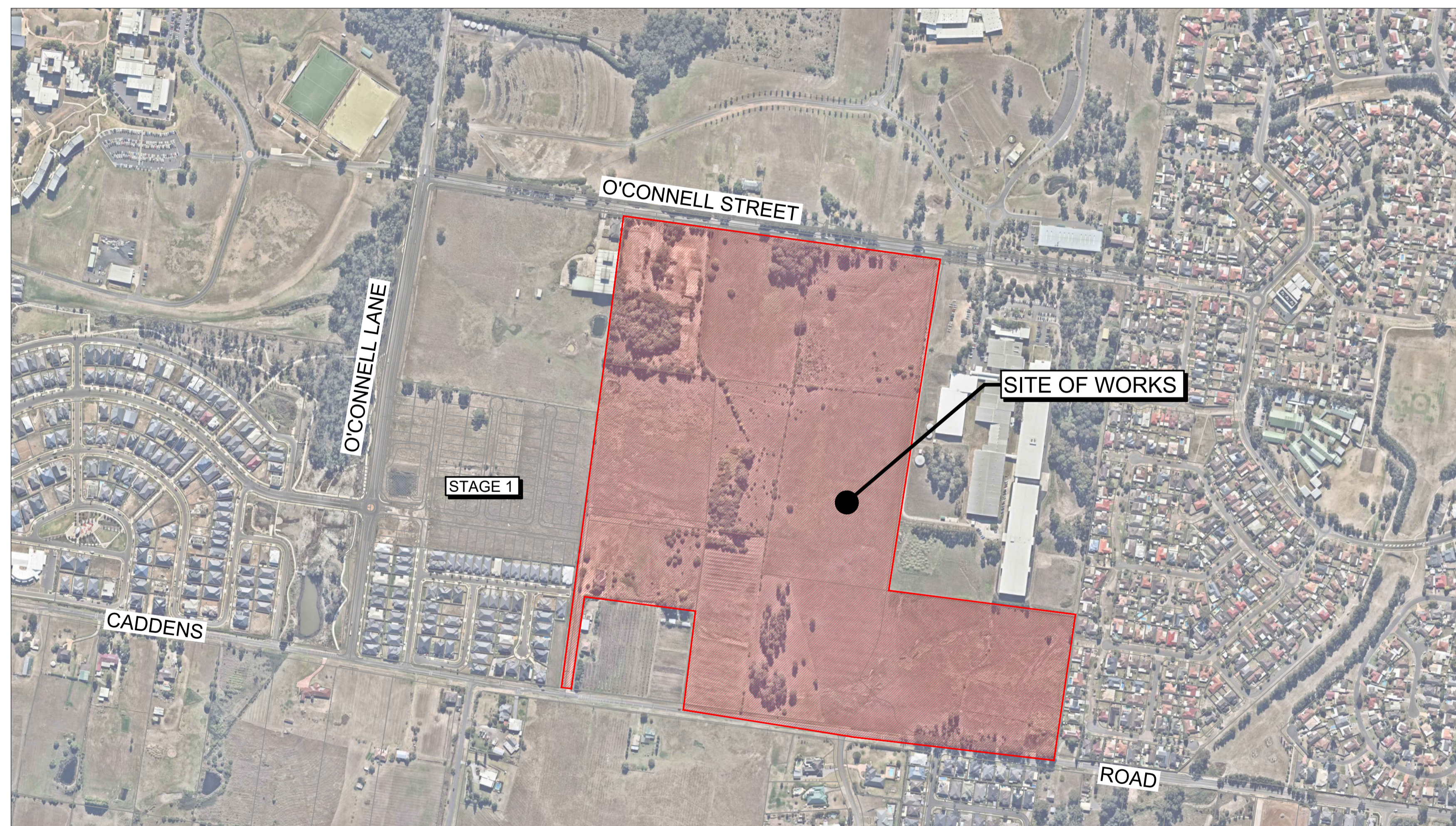




LEGACYPROPERTY

# CADDENS HILL STAGES 2 - 4

## PROPOSED SUBDIVISION & BULK EARTHWORKS



### LOCALITY SKETCH

Prepared By:

## J. WYNDHAM PRINCE

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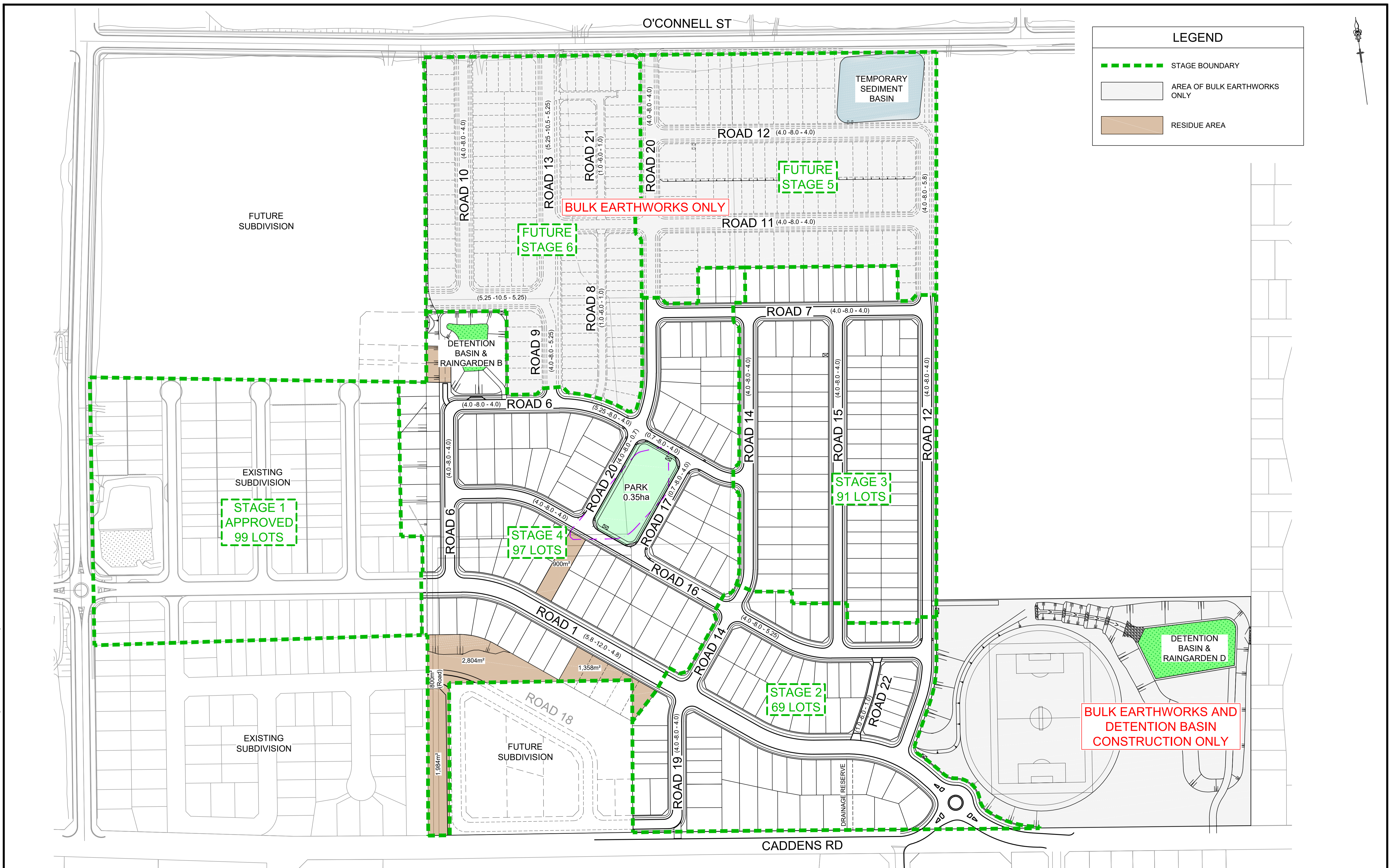
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110358/DA202	ENGINEERING PLAN	A
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110358/DA216	ROAD LONGITUDINAL SECTIONS - SHEET 10	A
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110358/DA223	BASIN & RAINGARDEN D - PLAN	A
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PLAN No.  
**110358/DA200 A**

FILE No. 110358DA200



**LEGEND**

- STAGE BOUNDARY
- AREA OF BULK EARTHWORKS ONLY
- RESIDUE AREA



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CADDENS HILL STAGES 2 - 4

SITE LAYOUT PLAN

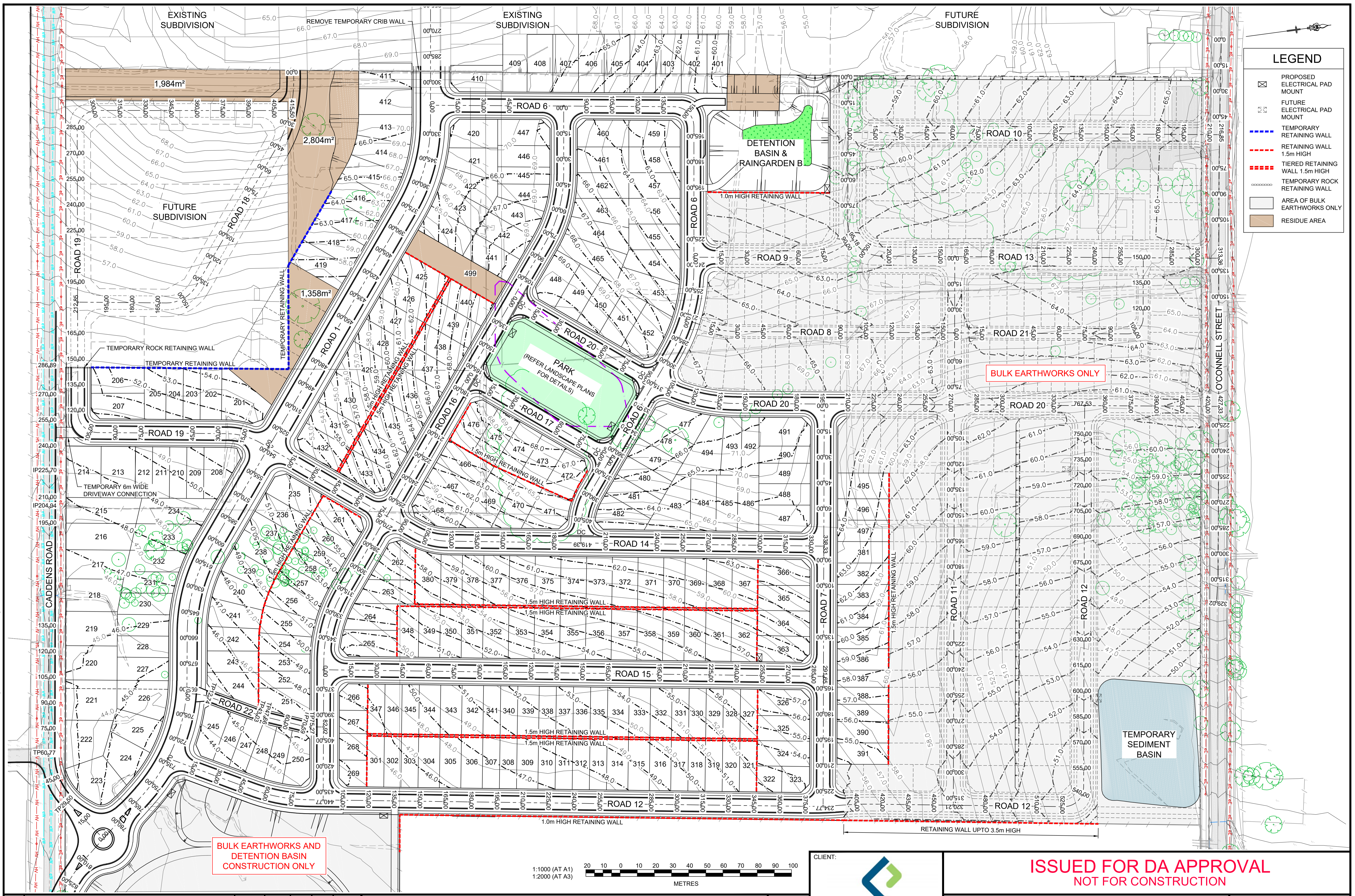
PLAN No: 110358/DA201 **A**

FILE No: 110358DA201

SHEET SIZE: A1 ORIGINAL

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	AMENDMENT	DES	DRN	CKD	APR	DATE

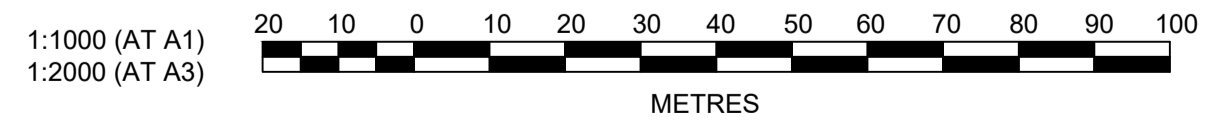
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LEGEND	
	PROPOSED ELECTRICAL PAD MOUNT
	FUTURE ELECTRICAL PAD MOUNT
	TEMPORARY RETAINING WALL
	RETAINING WALL 1.5m HIGH
	TIERED RETAINING WALL 1.5m HIGH
	TEMPORARY ROCK RETAINING WALL
	AREA OF BULK EARTHWORKS ONLY
	RESIDUE AREA

**BULK EARTHWORKS AND DETENTION BASIN CONSTRUCTION ONLY**

**BULK EARTHWORKS ONLY**



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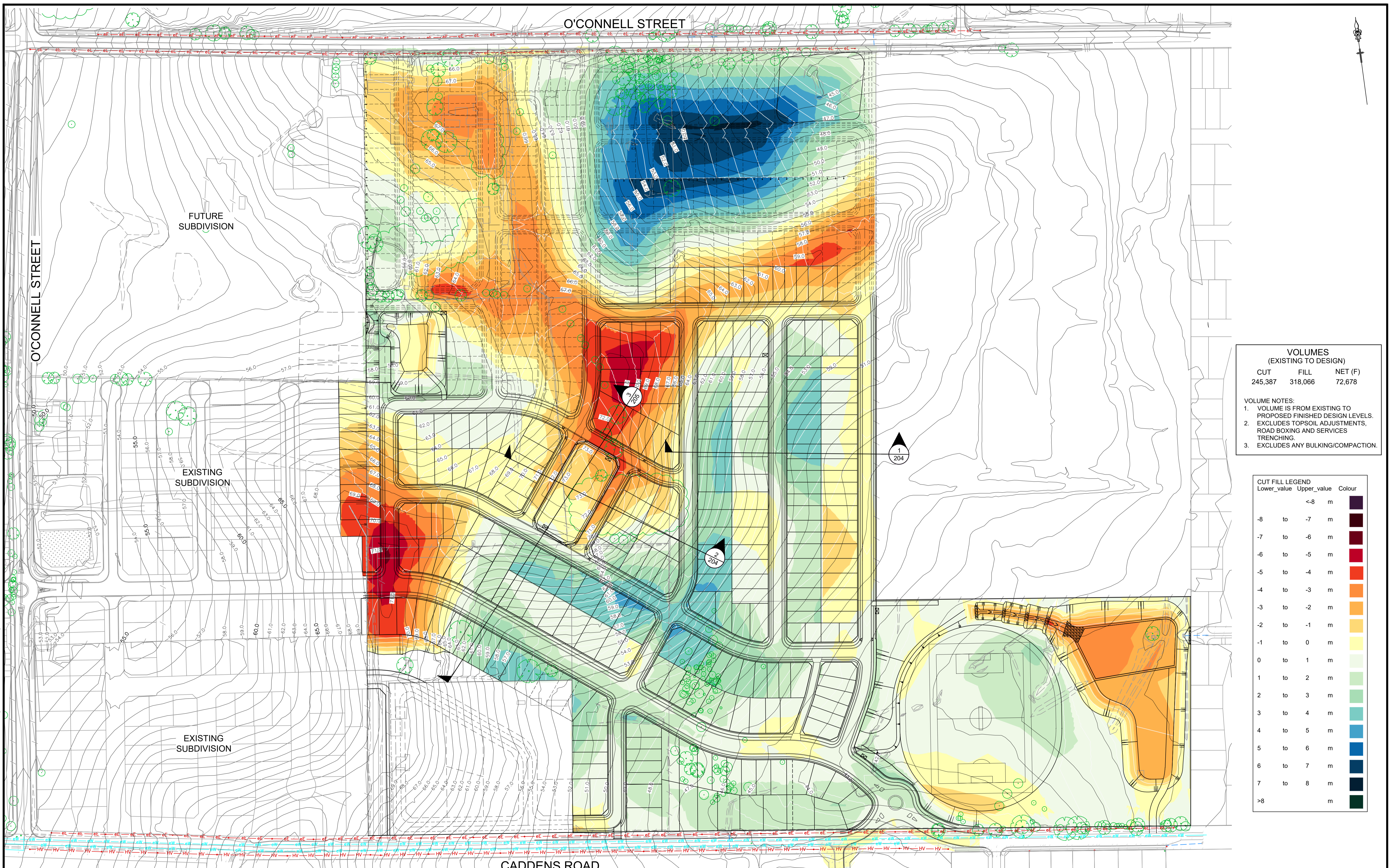
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CADDENS HILL STAGES 2 - 4  
 ENGINEERING PLAN

PLAN No:	110358/DA202	<b>A</b>
FILE No:	110358DA202	
SHEET SIZE:	A1 ORIGINAL	

Plotfile: 28 October, 2016 11:39:54 AM. File Name: J1110358 - O'Connell Lane, Caddens03 - Stage 2/CDDA110358DA202.dwg



**VOLUMES (EXISTING TO DESIGN)**

CUT	FILL	NET (F)
245,387	318,066	72,678

**VOLUME NOTES:**

- VOLUME IS FROM EXISTING TO PROPOSED FINISHED DESIGN LEVELS.
- EXCLUDES TOPSOIL ADJUSTMENTS, ROAD BOXING AND SERVICES TRENCHING
- EXCLUDES ANY BULKING/COMPACTION.

**CUT FILL LEGEND**

Lower_value	Upper_value	Colour	
<-8	m	Dark Purple	
-8	to -7	m	Dark Red
-7	to -6	m	Red
-6	to -5	m	Orange-Red
-5	to -4	m	Orange
-4	to -3	m	Light Orange
-3	to -2	m	Yellow-Orange
-2	to -1	m	Yellow
-1	to 0	m	Light Green
0	to 1	m	Green
1	to 2	m	Light Blue
2	to 3	m	Blue
3	to 4	m	Dark Blue
4	to 5	m	Very Dark Blue
5	to 6	m	Black
6	to 7	m	Black
7	to 8	m	Black
>8	m	Black	

Plotted: 28 October, 2016 11:41:52 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA203.dwg


A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
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**CADDENS HILL STAGES 2 - 4**

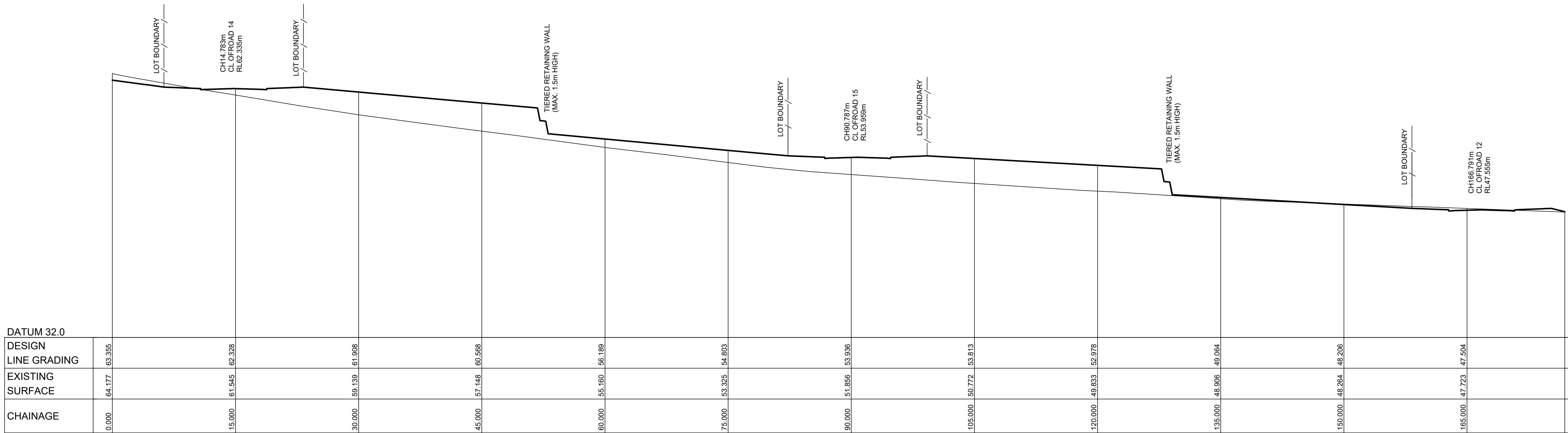
BULK EARTHWORKS PLAN

PLAN No: 110358/DA203 **A**

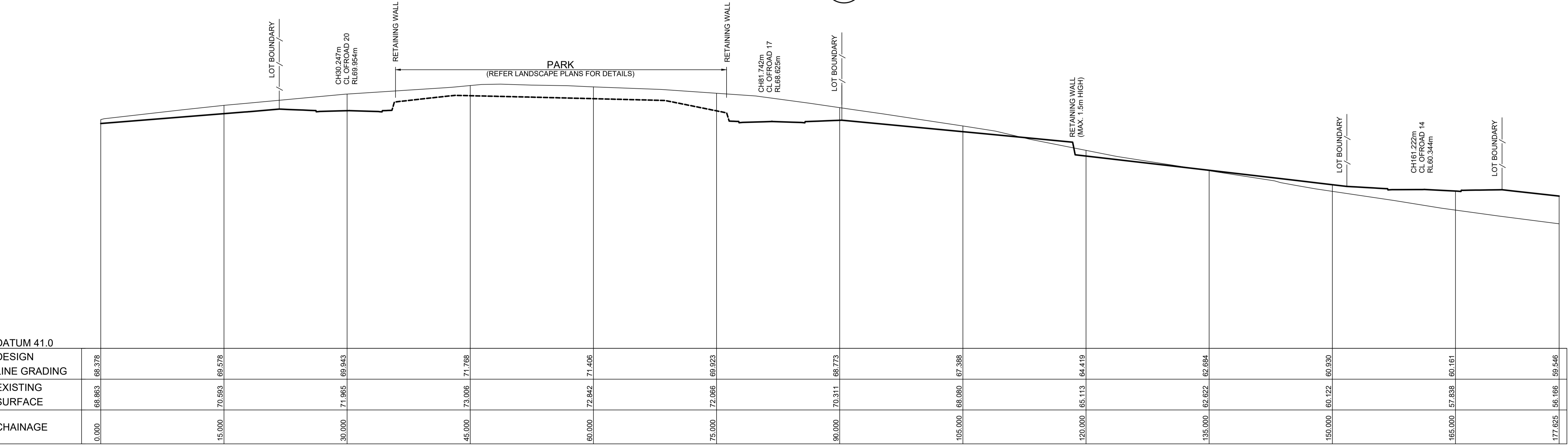
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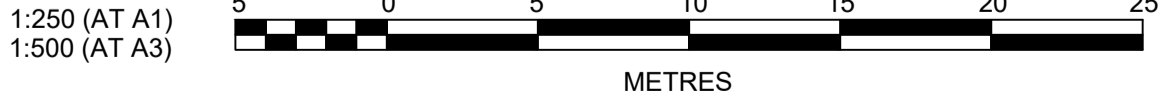
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SECTION 1  
SCALE 1:250



SECTION 2  
SCALE 1:250



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**CADDENS HILL  
STAGES 2 - 4**

SITE SECTIONS - SHEET 1

PLAN No: **110358/DA204** A

FILE No: 110358DA204

SHEET SIZE: A1 ORIGINAL

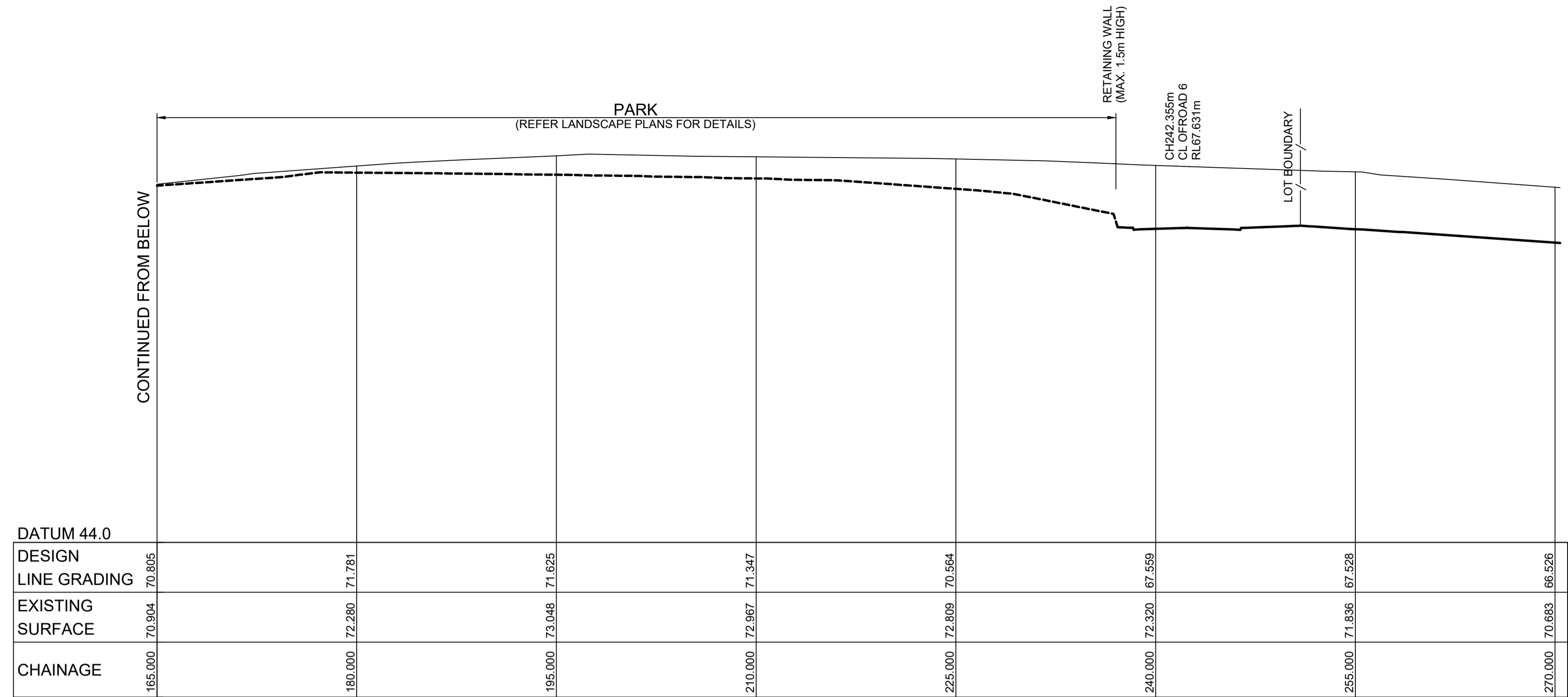
**J. WYNDHAM PRINCE** CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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	AMENDMENT	DES	DRN	CKD	APR	DATE

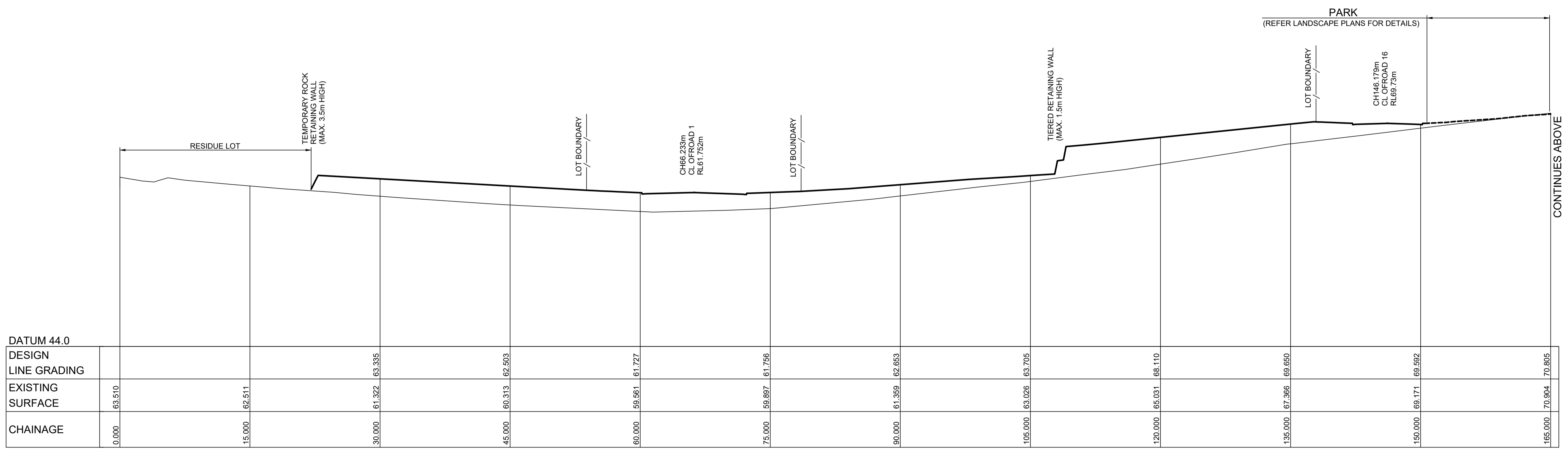
AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

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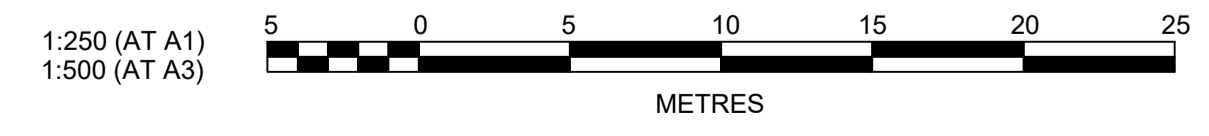
DATUM 44.0		185.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000
DESIGN LINE GRADING	70.805		71.781	71.625	71.347	70.564	67.569	67.528	66.526
EXISTING SURFACE	70.904	72.280	73.048	72.967	72.809	72.320	71.836	70.683	
CHAINAGE									

SECTION 3  
SCALE 1:250



DATUM 44.0		0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000
DESIGN LINE GRADING			63.335	62.503	61.727	61.756	62.653	63.705	68.110	69.650	69.592	70.805	
EXISTING SURFACE	63.510	62.511	61.322	60.313	59.561	59.887	61.359	63.026	65.031	67.366	69.171	70.904	
CHAINAGE													

SECTION 3  
SCALE 1:250



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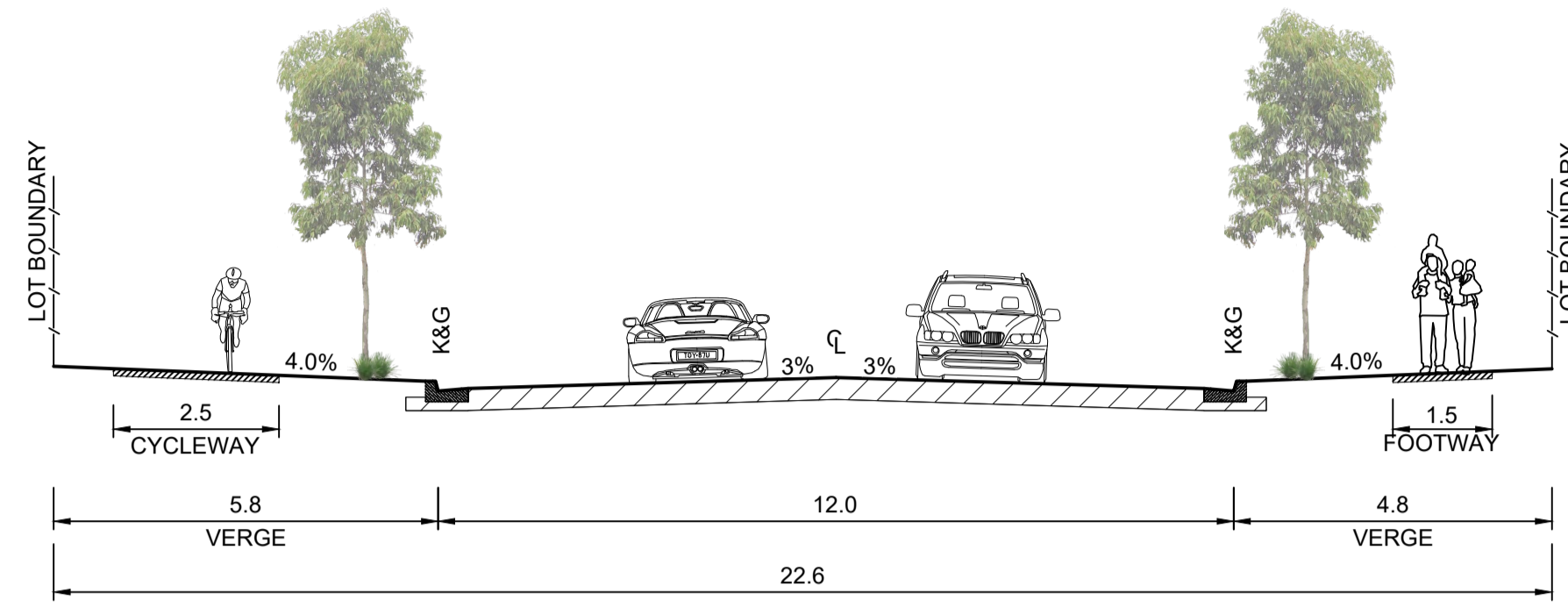
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CADDENS HILL STAGES 2 - 4

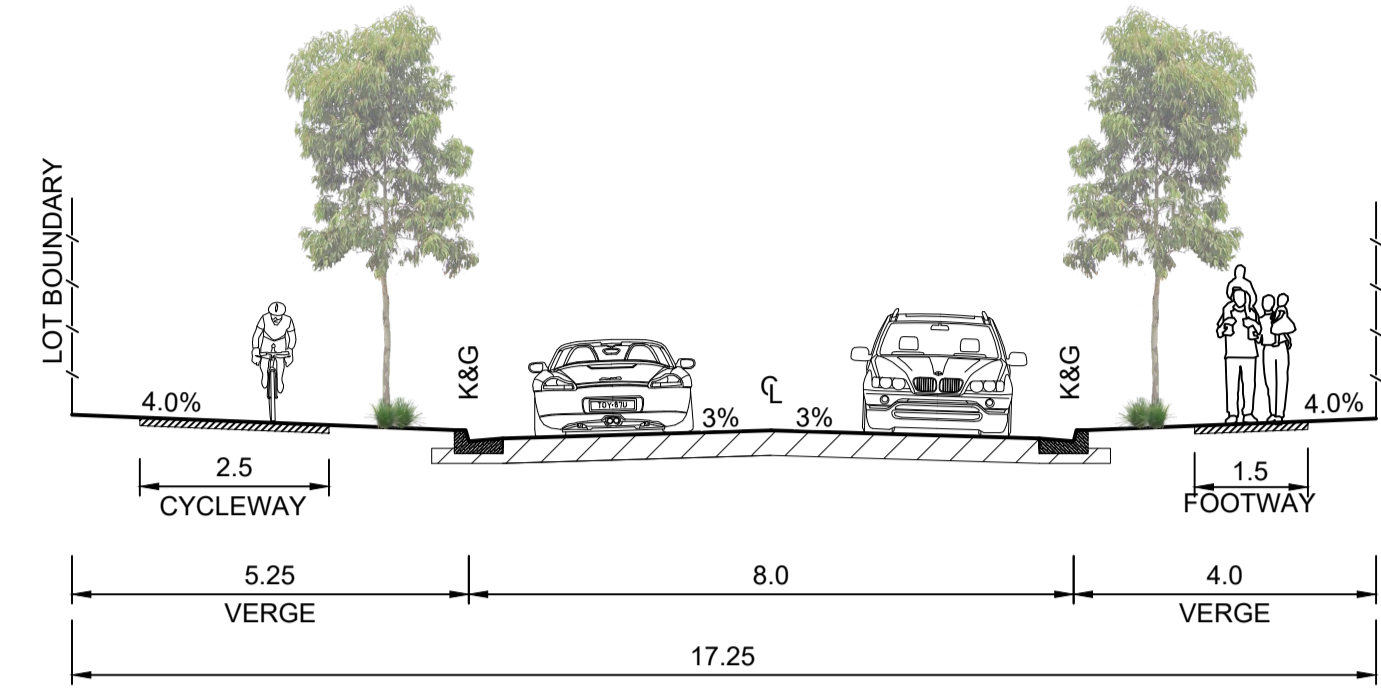
SITE SECTIONS - SHEET 2

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 FILE No: 110358DA205  
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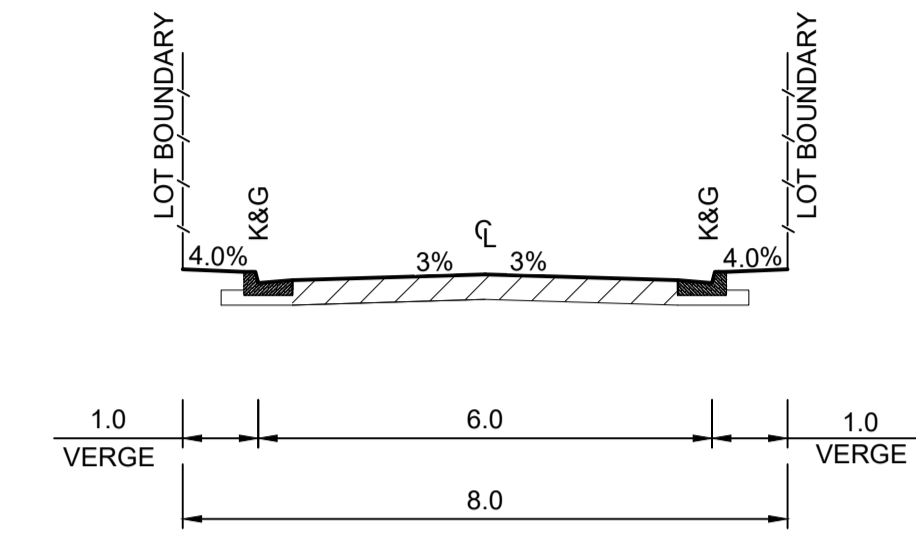
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A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM MS 28/10/16
	AMENDMENT	DES	DRN	CKD APR DATE



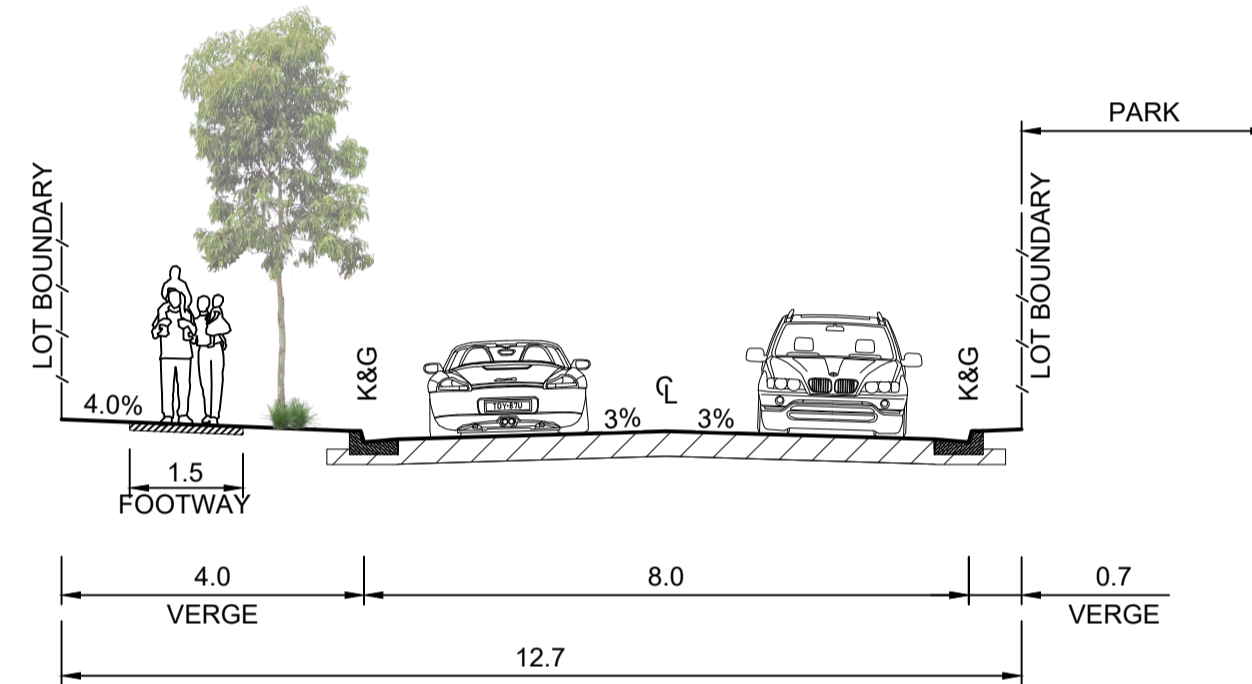
TYPICAL CROSS SECTION  
ROAD 1  
SCALE 1:100



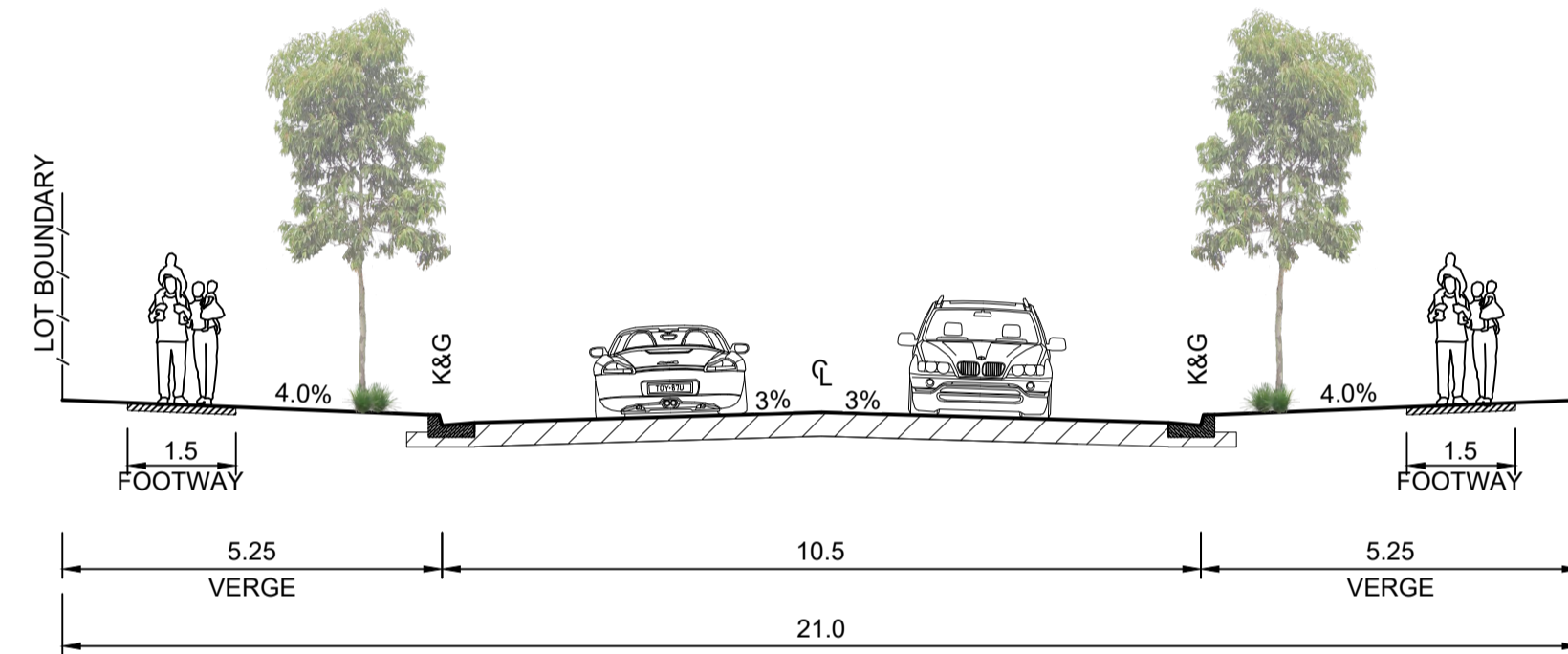
TYPICAL CROSS SECTION  
ROAD 6 (CH 240 - CH 300)  
ROAD 16 (CH 165 - END)  
SCALE 1:100



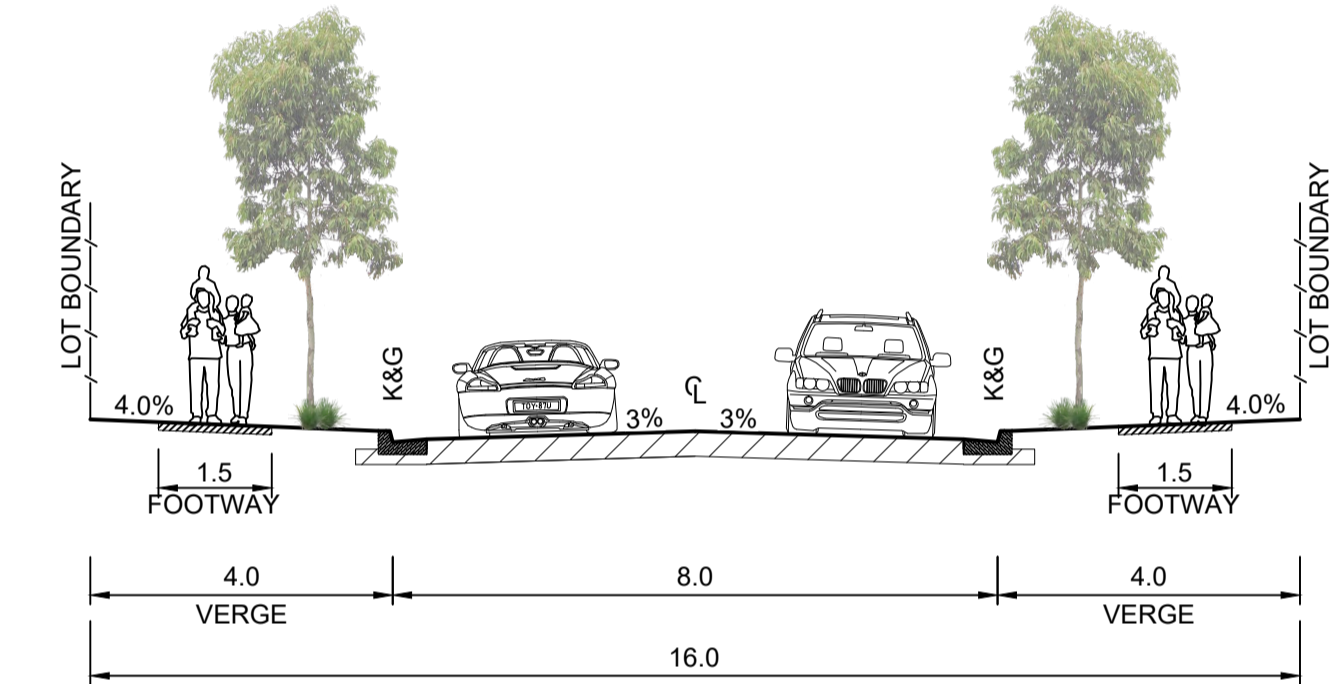
TYPICAL CROSS SECTION  
ROADS 8, 21 & 22  
SCALE 1:100



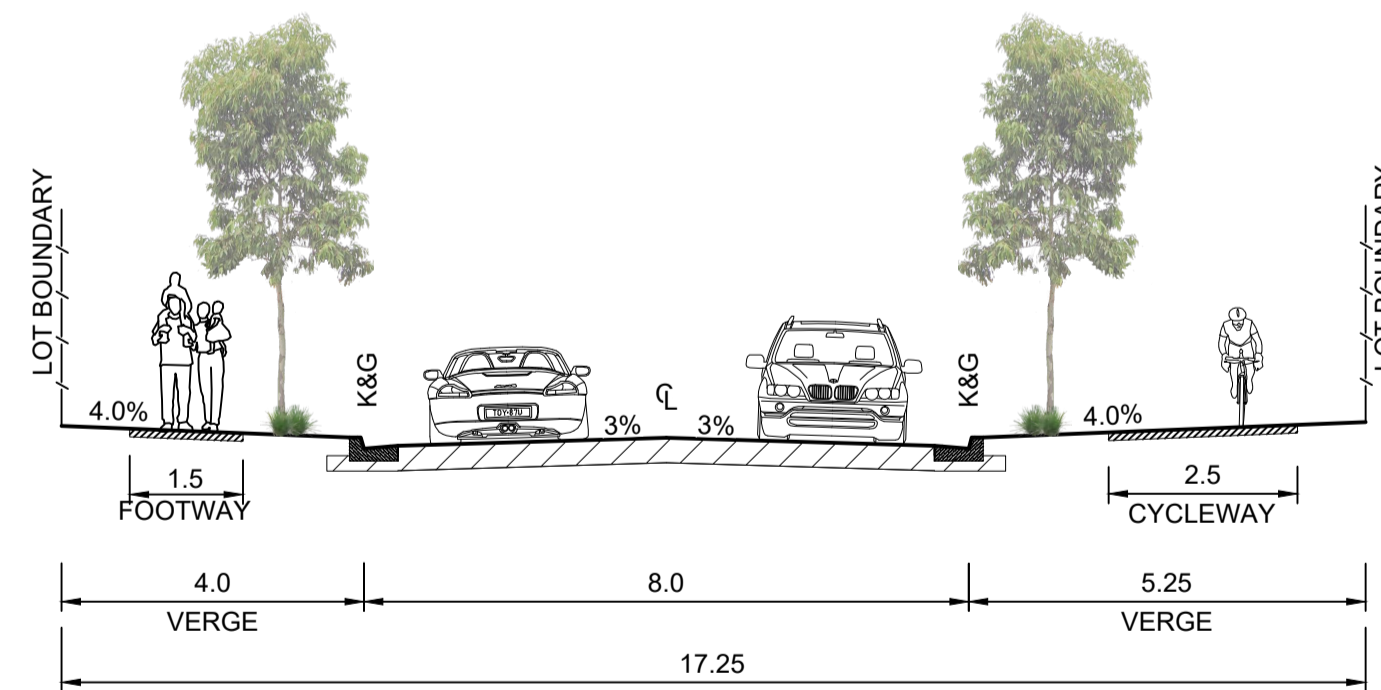
TYPICAL CROSS SECTION  
ROAD 6 (CH 320 - CH 360)  
ROAD 20 (CH 0 - CH 90)  
SCALE 1:100



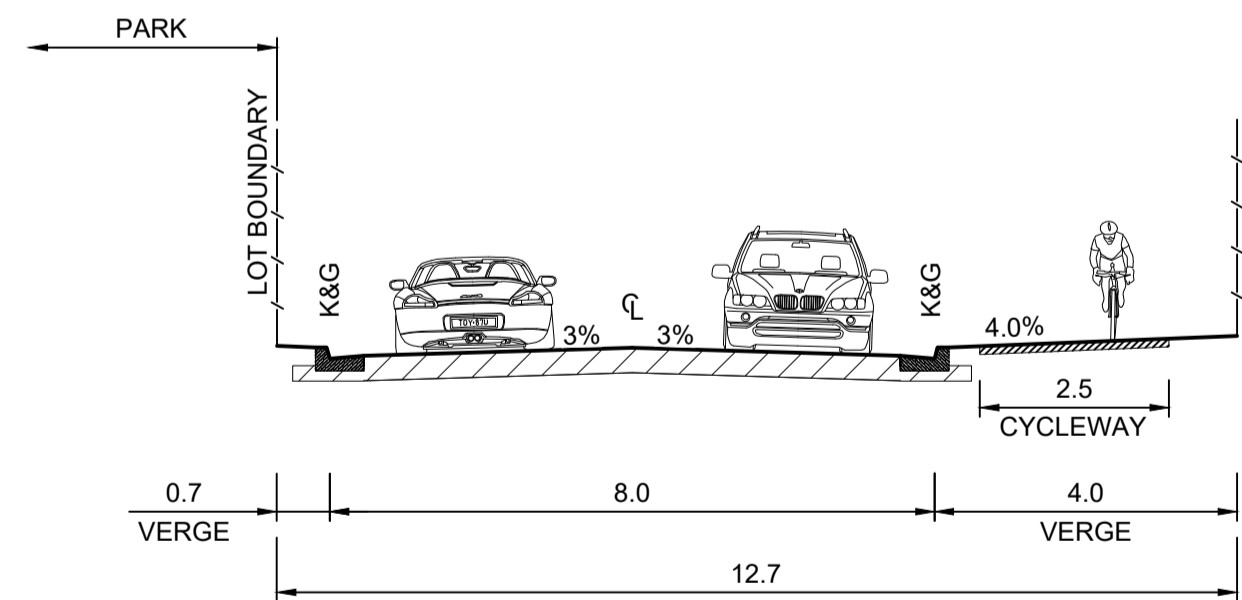
TYPICAL CROSS SECTION  
ROAD 13  
SCALE 1:100



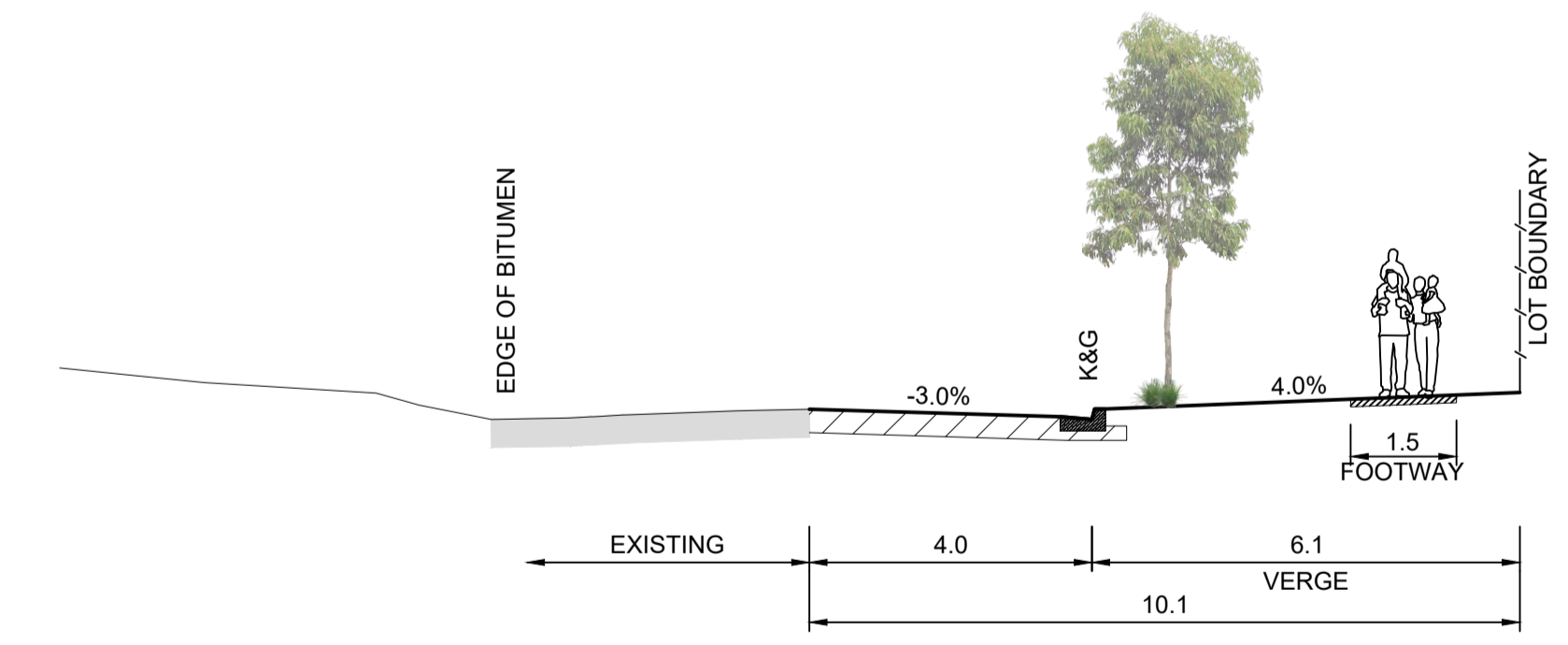
TYPICAL CROSS SECTION  
ROADS 7, 10, 11, 12, 14, 15, 18 & 19  
ROAD 6 (START - CH 240) & (CH 370 - END)  
ROAD 16 (START - CH 120)  
ROAD 20 (CH 90 - END)  
SCALE 1:100



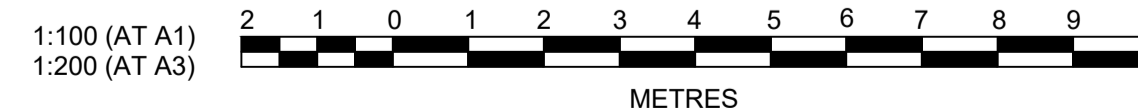
TYPICAL CROSS SECTION  
ROAD 9  
SCALE 1:100



TYPICAL CROSS SECTION  
ROAD 16 (CH 120 - CH 165)  
ROAD 17  
SCALE 1:100



TYPICAL CROSS SECTION  
CADDENS ROAD  
SCALE 1:100



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CADDENS HILL  
STAGES 2 - 4

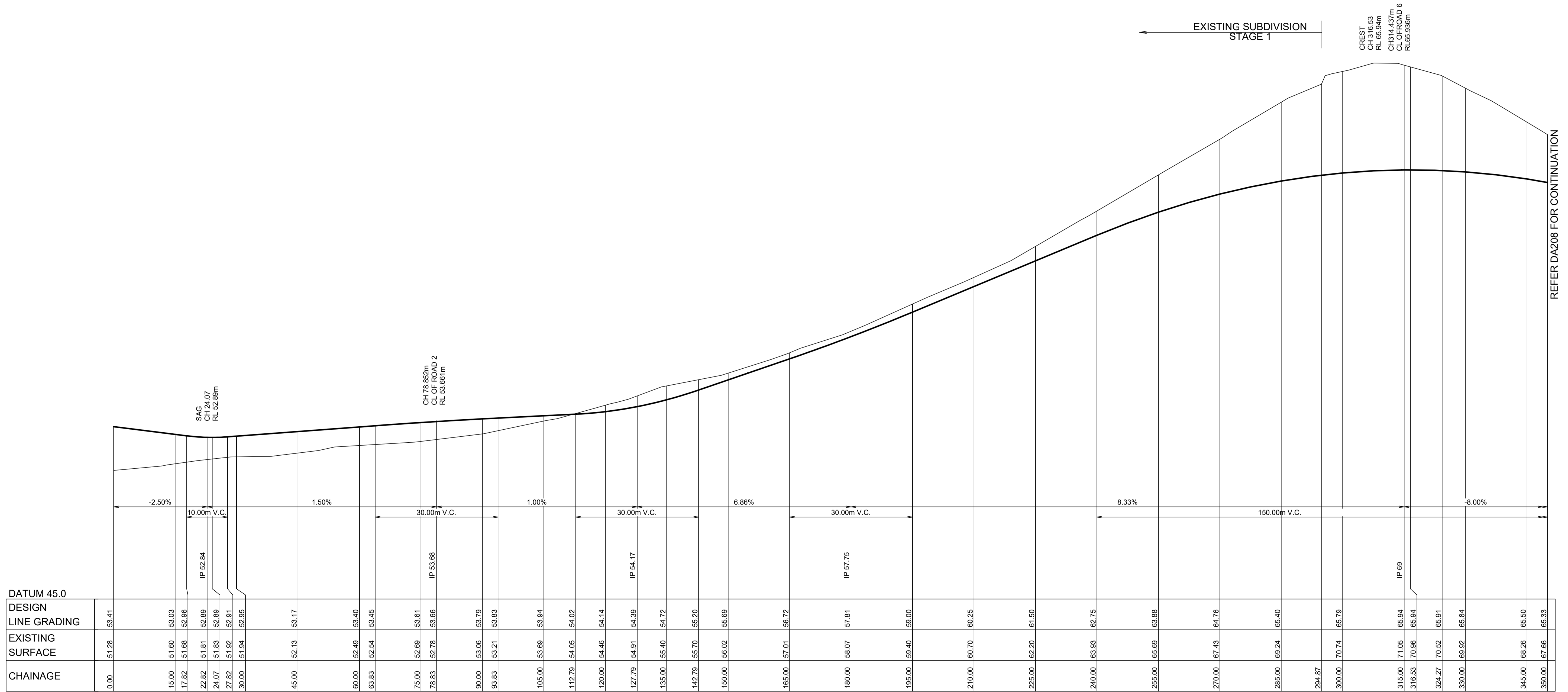
TYPICAL ROAD CROSS SECTIONS

PLAN No:  
**110358/DA206** **A**

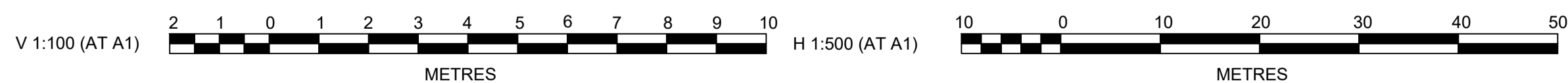
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SHEET SIZE: A1 ORIGINAL

Plotted: 28 October, 2016 11:43:13 AM; File Name: \\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA207.dwg



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



NO.	DESCRIPTION	JT / RT	JT	AM	MS	28/10/16
A	ISSUE FOR DEVELOPMENT APPLICATION					
	AMENDMENT	DES	DRN	CKD	APR	DATE

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**CADDENS HILL**  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 1

PLAN No: **110358/DA207** A

FILE No: 110358DA207

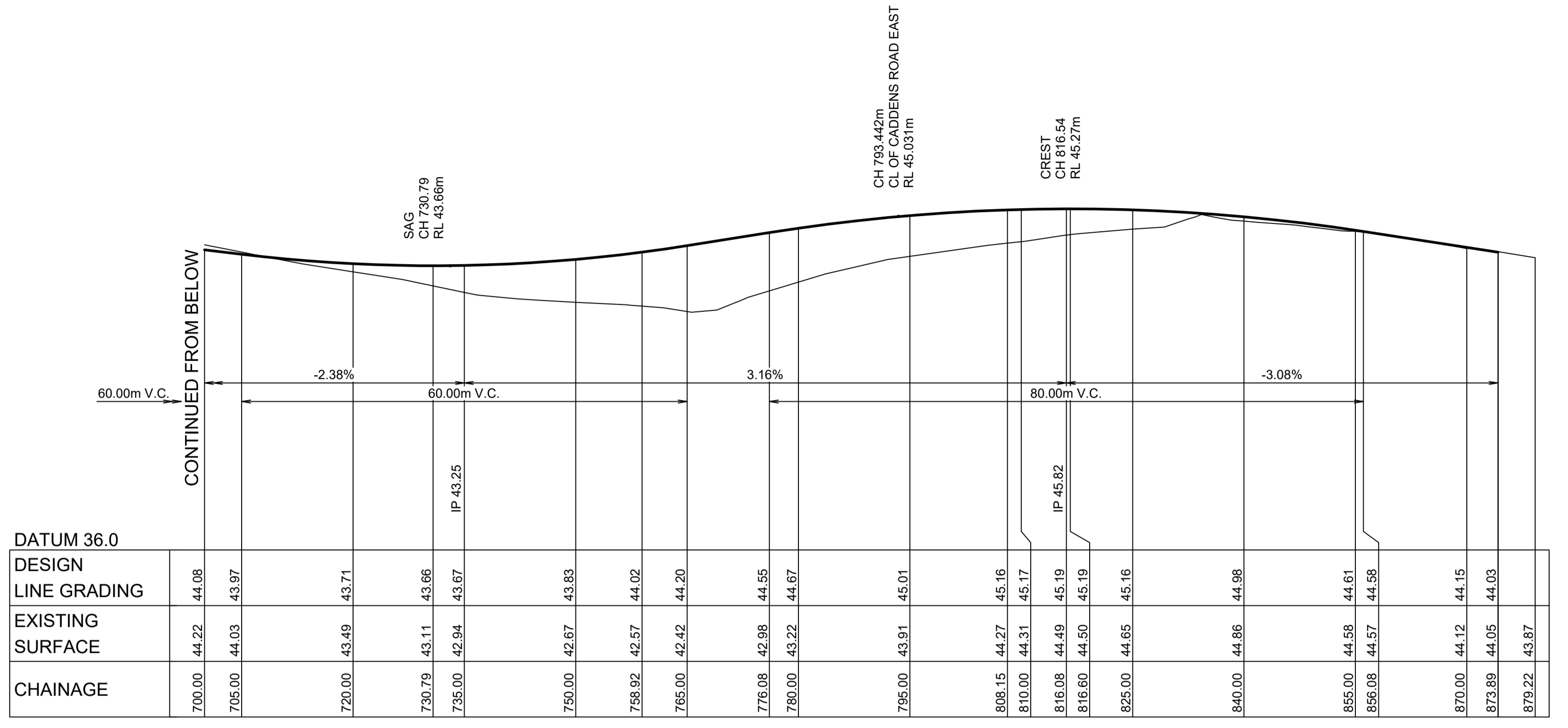
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REFER DA208 FOR CONTINUATION

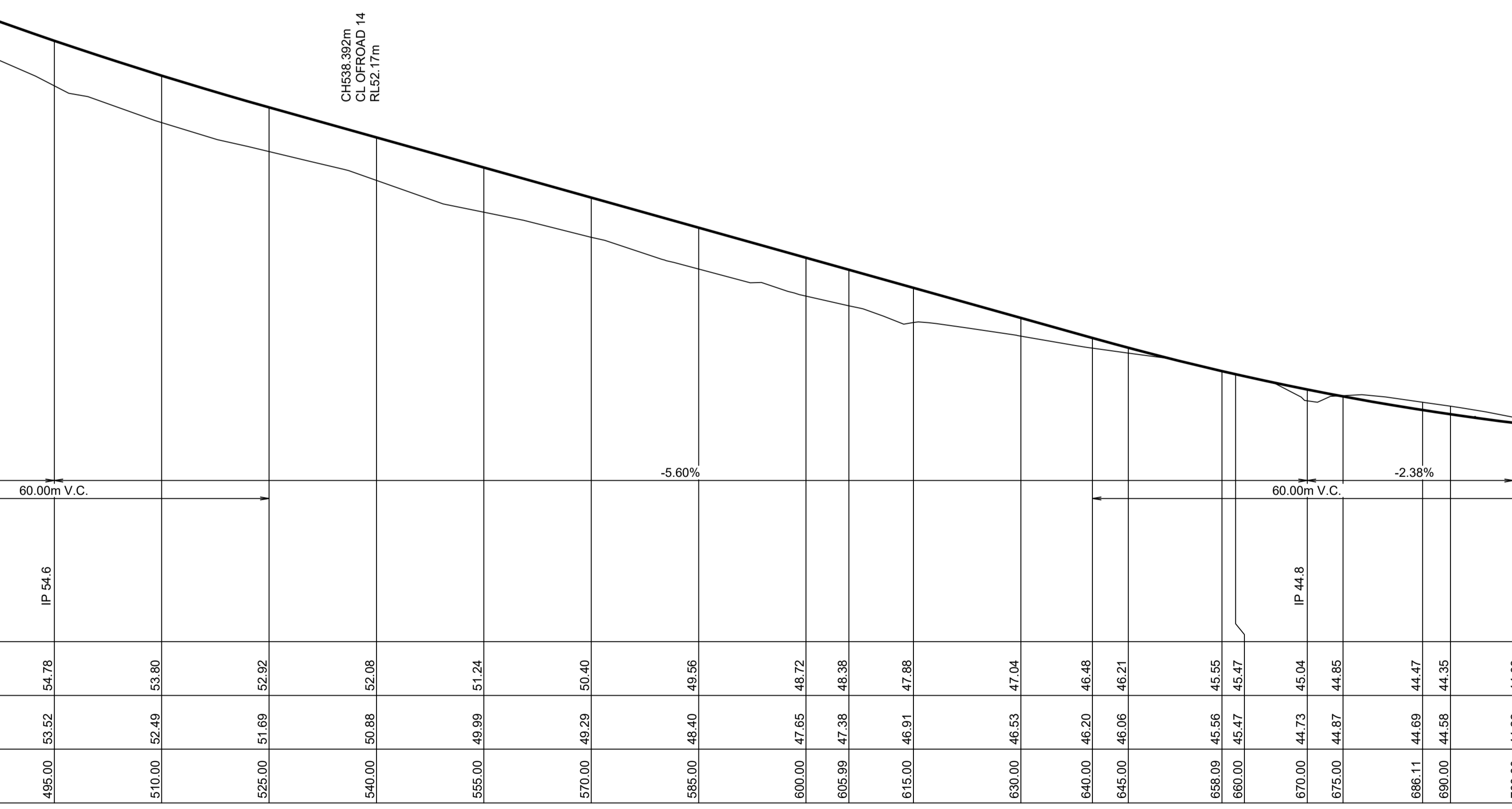


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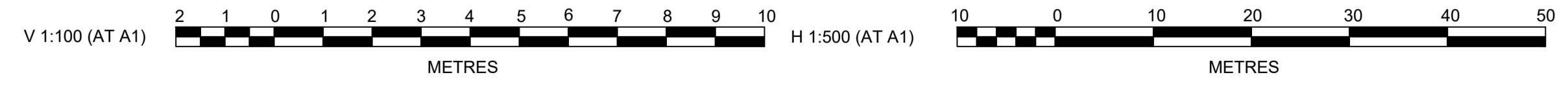
REFER DA207 FOR CONTINUATION



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



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



CLIENT:   
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**CADDENS HILL**  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 2

PLAN No: **110358/DA208** A

FILE No: 110358DA208

SHEET SIZE: A1 ORIGINAL

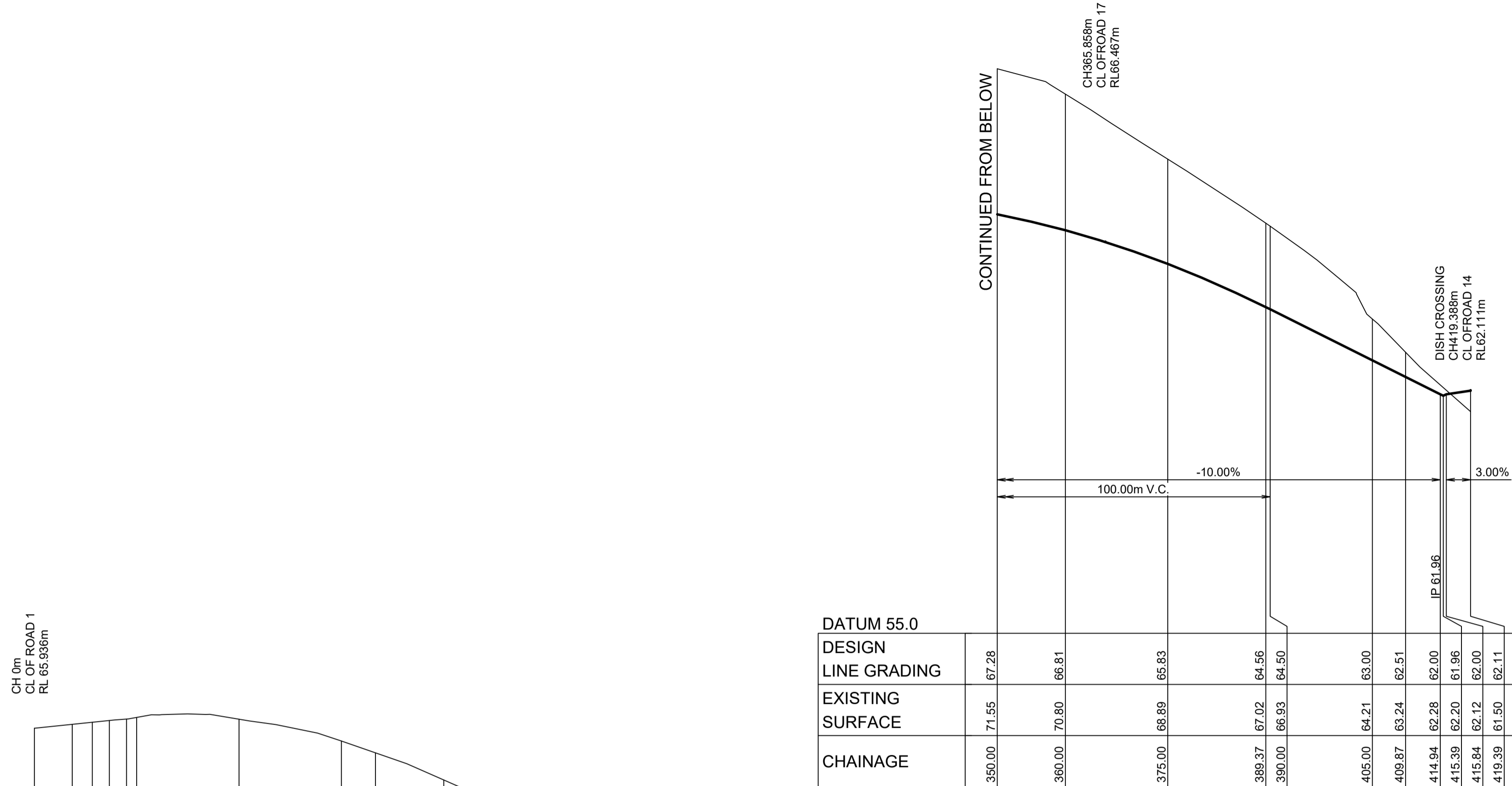
NO.	REVISION	DATE	BY	CHECKED

ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
AMENDMENT	DES	DRN	CKD	APR	DATE

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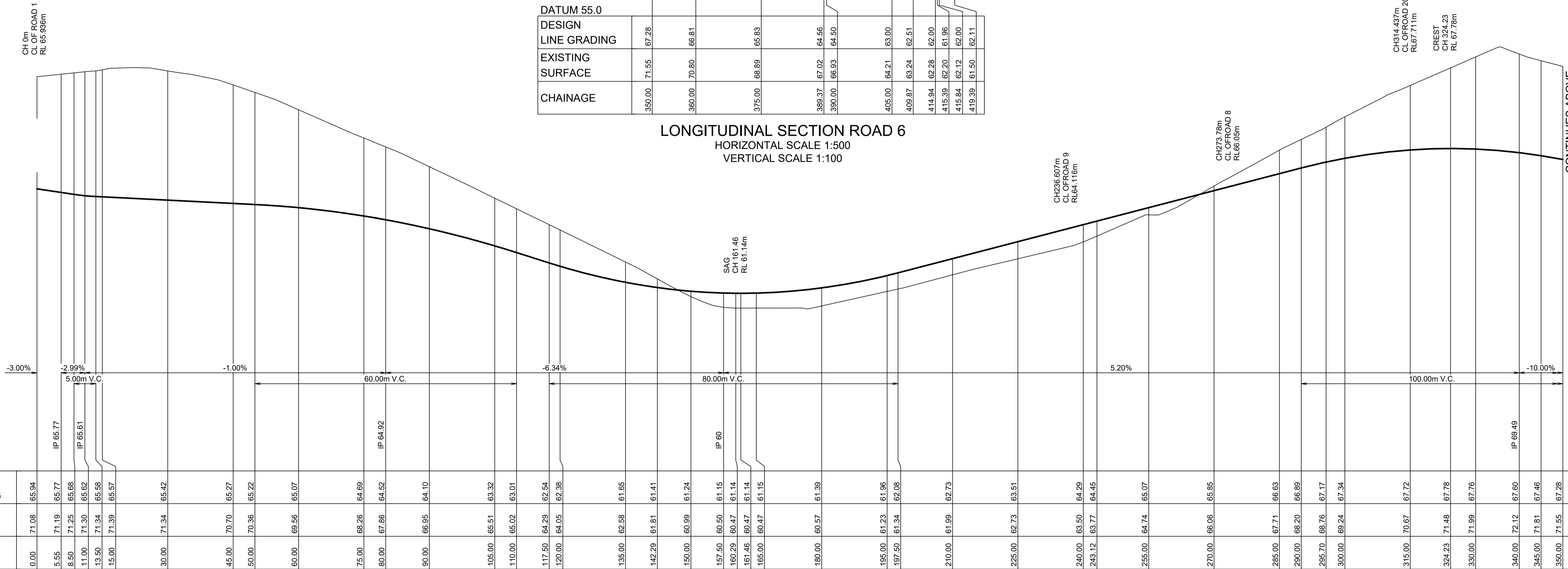
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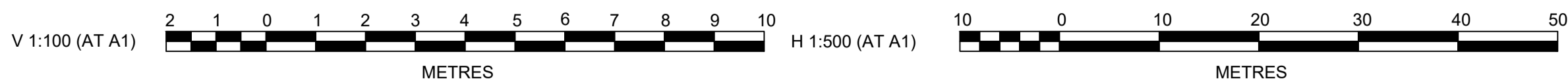
DESIGN LINE GRADING	EXISTING SURFACE	CHAINAGE
67.28	71.55	350.00
66.81	70.80	360.00
65.83	68.89	375.00
64.56	67.02	389.37
64.50	66.93	390.00
63.00	64.21	405.00
62.51	63.24	409.87
62.00	62.28	414.94
61.96	62.20	415.39
62.00	62.12	415.84
62.11	61.50	419.39

LONGITUDINAL SECTION ROAD 6  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



DESIGN LINE GRADING	EXISTING SURFACE	CHAINAGE
65.94	71.08	0.00
65.77	71.19	5.55
65.68	71.25	8.50
65.62	71.30	11.00
65.58	71.34	13.50
65.57	71.39	15.00
65.42	71.34	30.00
65.27	70.70	45.00
65.22	70.36	50.00
65.07	69.56	60.00
64.69	68.26	75.00
64.52	67.86	80.00
64.10	66.95	90.00
63.32	65.51	105.00
63.01	65.02	110.00
62.54	64.29	117.50
62.38	64.05	120.00
61.85	62.58	135.00
61.41	61.81	142.29
61.24	60.99	150.00
61.15	60.50	157.50
61.14	60.47	160.29
61.14	60.47	161.46
61.15	60.47	165.00
61.39	60.57	180.00
61.96	61.23	195.00
62.08	61.34	197.50
62.73	61.99	210.00
63.51	62.73	225.00
64.29	63.50	240.00
64.45	63.77	243.12
65.07	64.74	255.00
65.85	66.06	270.00
66.63	67.71	285.00
66.89	68.20	290.00
67.17	68.76	295.70
67.34	69.24	300.00
67.72	70.67	315.00
67.78	71.48	324.23
67.76	71.99	330.00
67.90	72.12	340.00
67.46	71.81	345.00
67.28	71.55	350.00


LONGITUDINAL SECTION ROAD 6  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

CLIENT:   
**LEGACYPROPERTY**  
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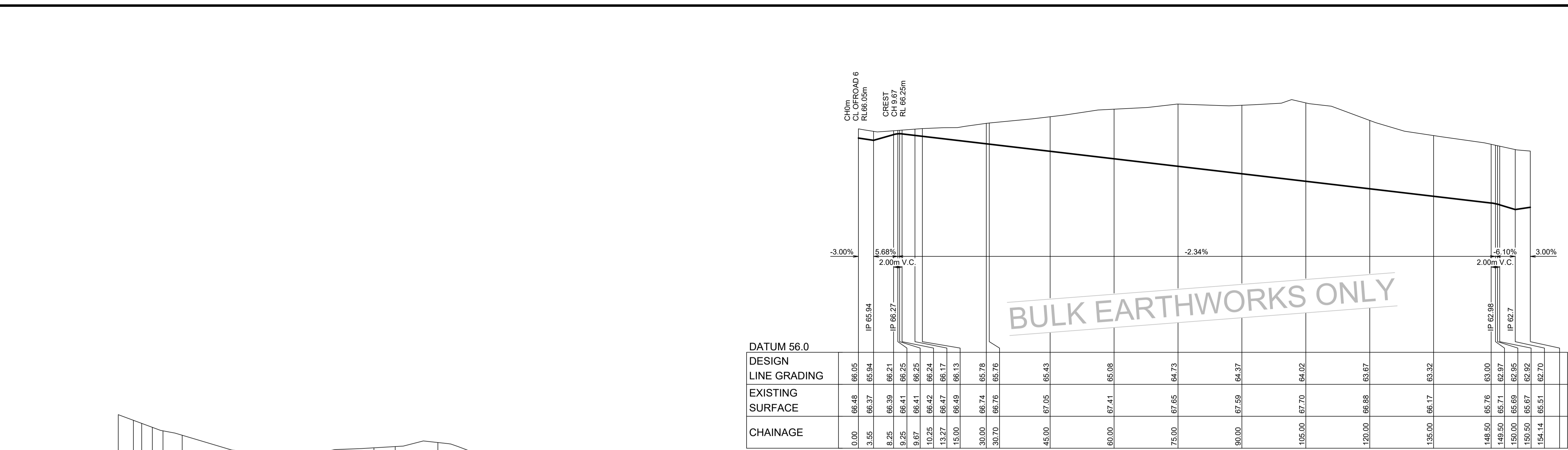
CADDENS HILL  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 3

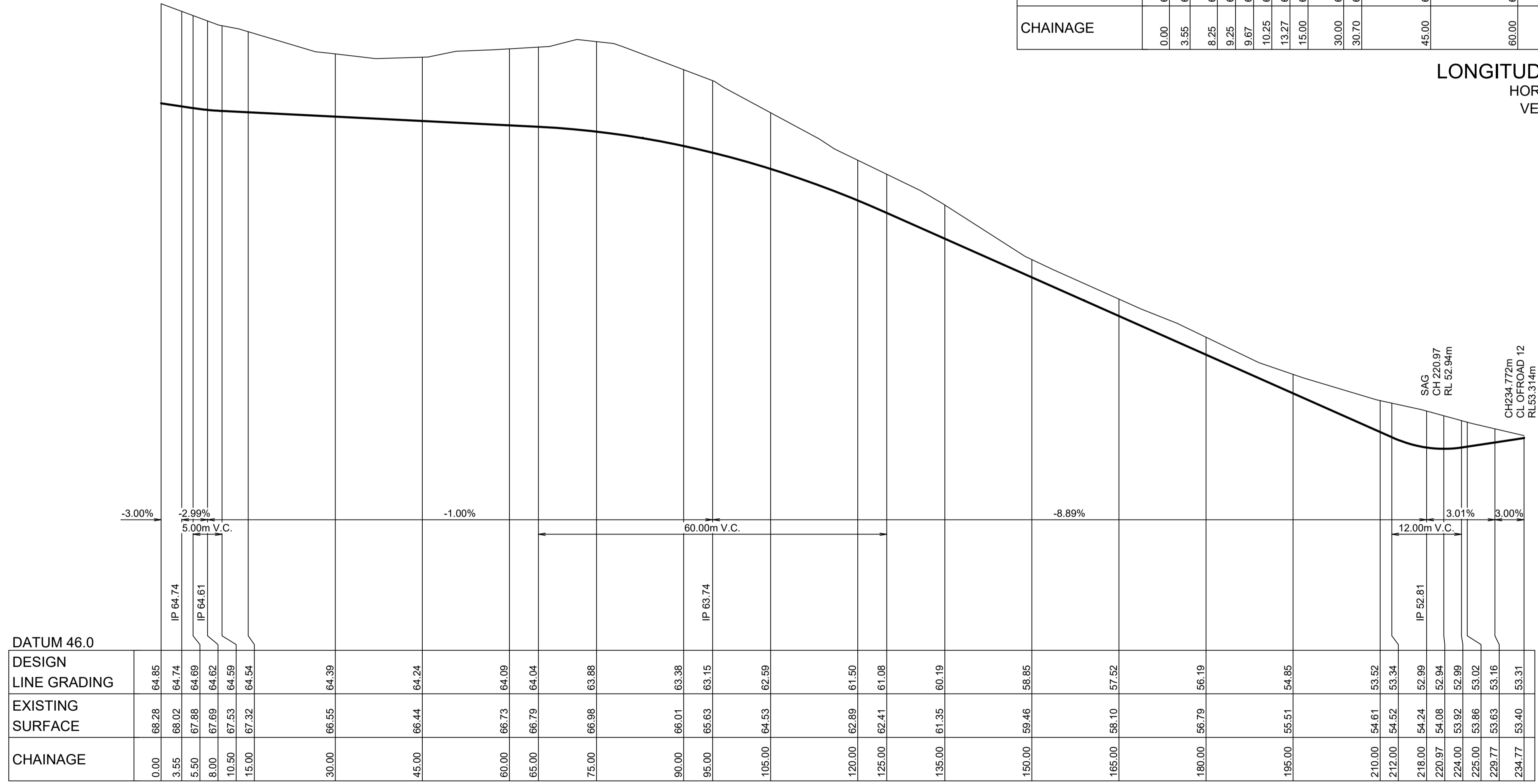
PLAN No: **110358/DA209** **A**  
FILE No: 110358DA209  
SHEET SIZE: A1 ORIGINAL

ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
AMENDMENT	DES	DRN	CKD	APR	DATE

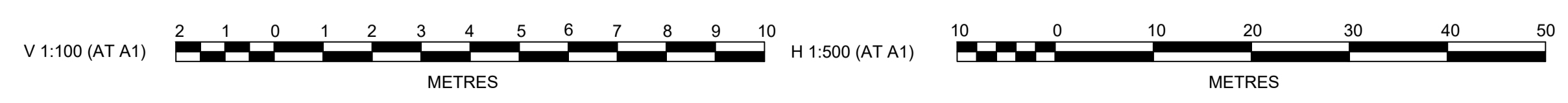
Plotted: 28 October, 2016 11:44:14 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA210.dwg



LONGITUDINAL SECTION ROAD 8  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 7  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

CLIENT:

LEGACYPROPERTY

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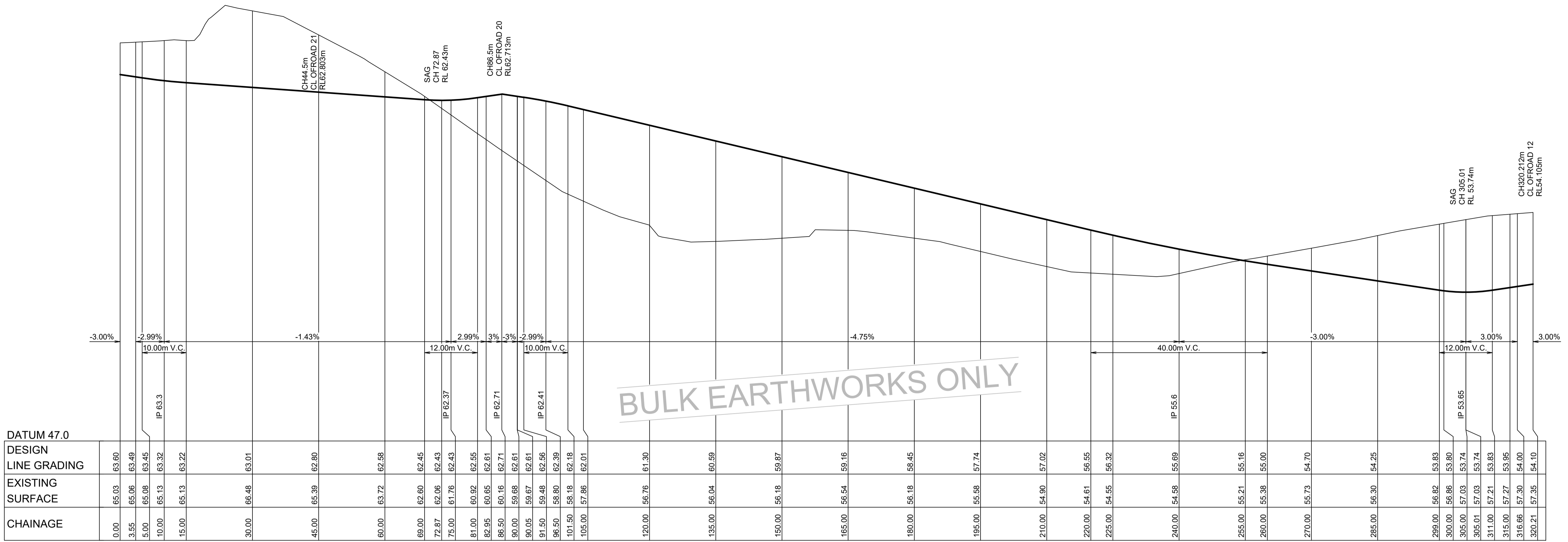
**ISSUED FOR DA APPROVAL**  
NOT FOR CONSTRUCTION

CADDENS HILL  
STAGES 2 - 4

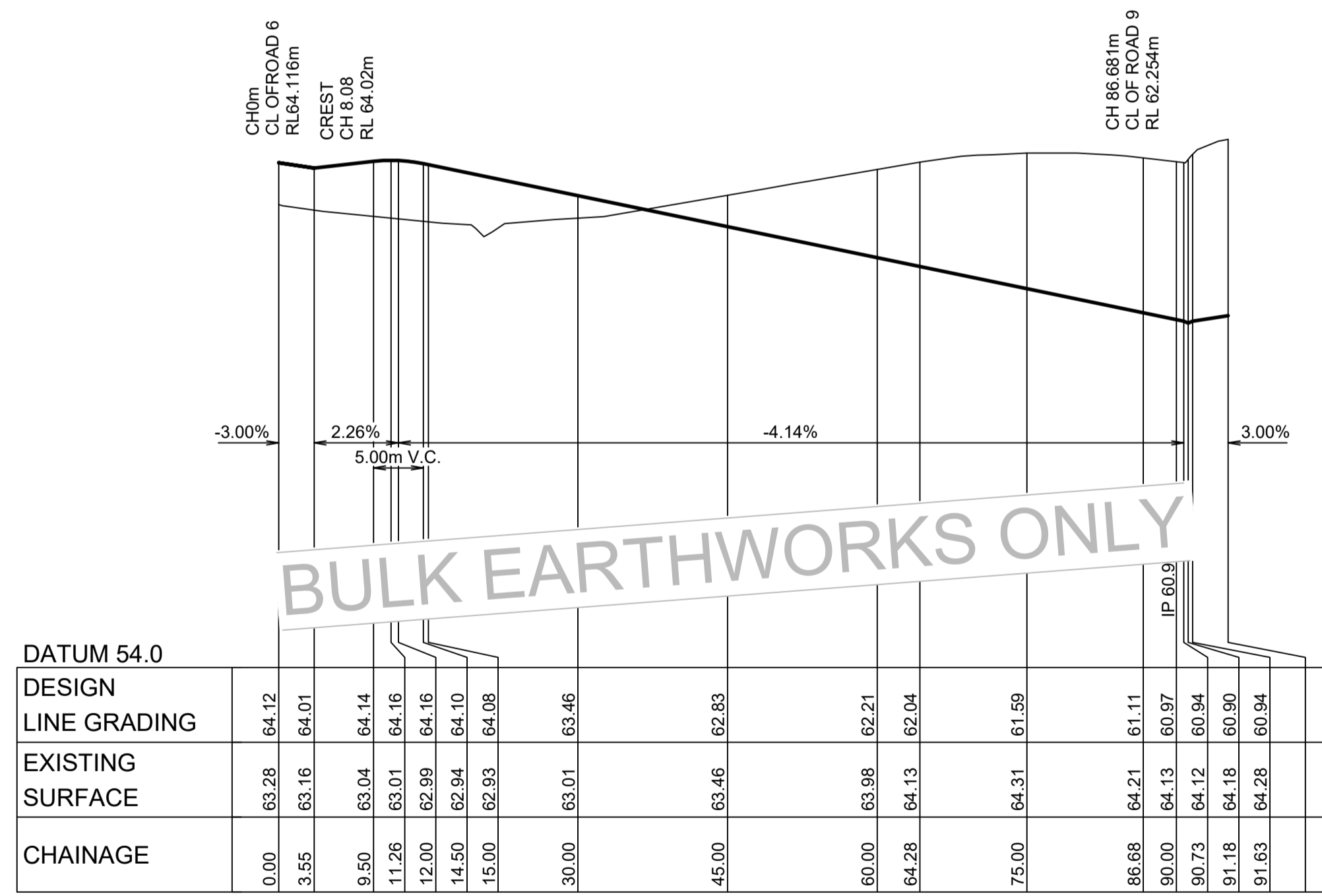
ROAD LONGITUDINAL SECTIONS - SHEET 4

PLAN No:	110358/DA210	A
FILE No:	110358DA210	
SHEET SIZE:	A1 ORIGINAL	

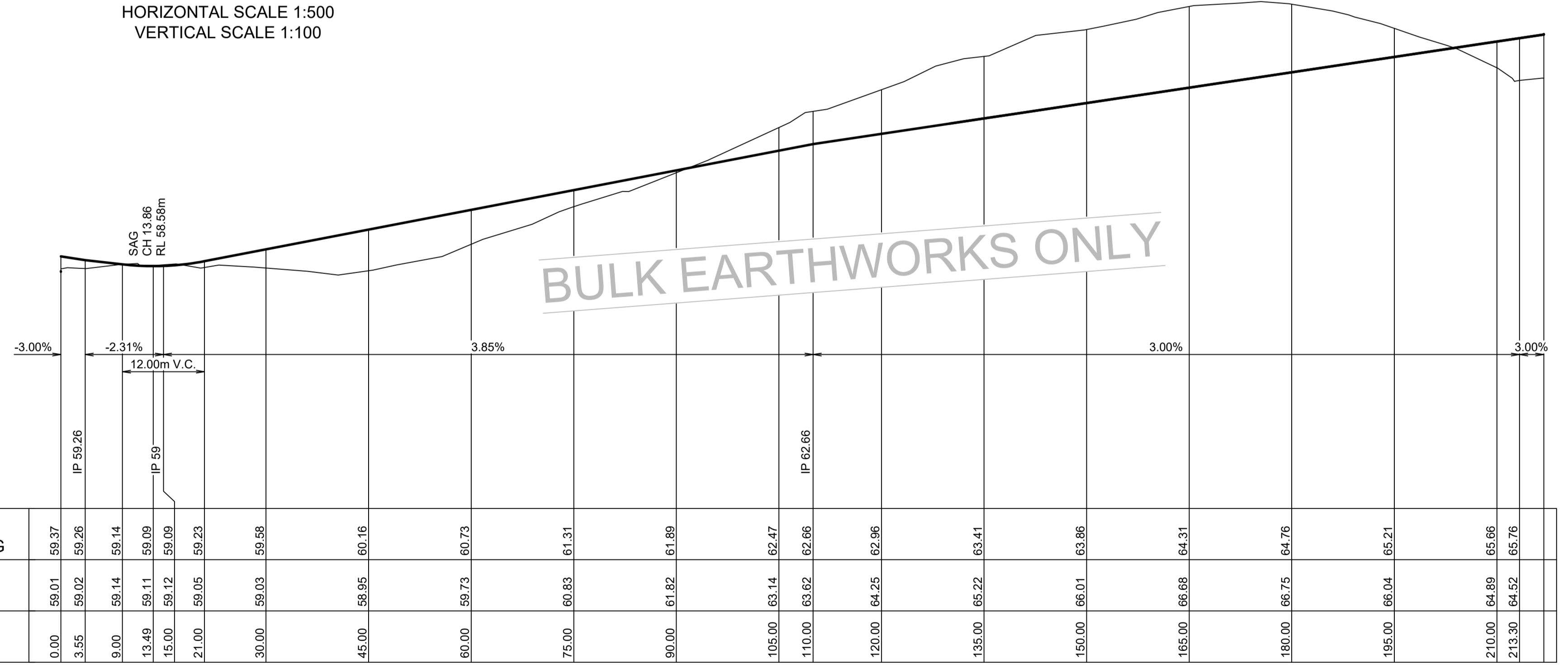
Plotted: 28 October, 2016 11:44:35 AM; File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA211.dwg



LONGITUDINAL SECTION ROAD 11  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 9  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 10  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



CLIENT:

**LEGACYPROPERTY**

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**CADDENS HILL  
STAGES 2 - 4**

PLAN No: **110358/DA211** A

FILE No: 110358DA211

SHEET SIZE: A1 ORIGINAL

ROAD LONGITUDINAL SECTIONS - SHEET 5

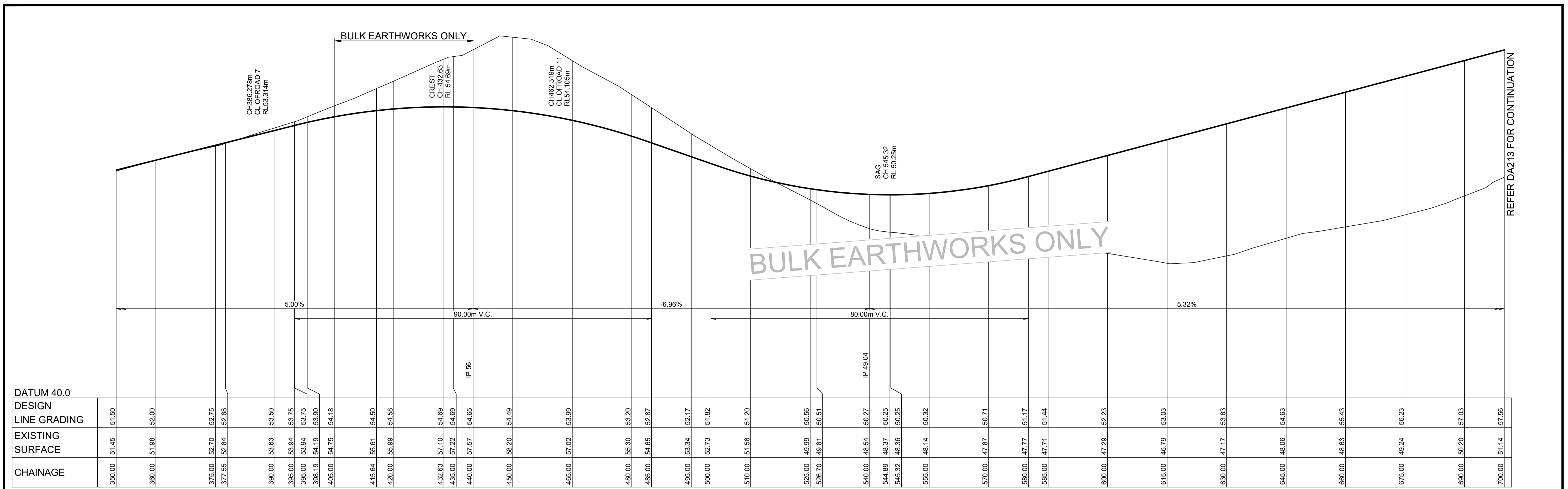
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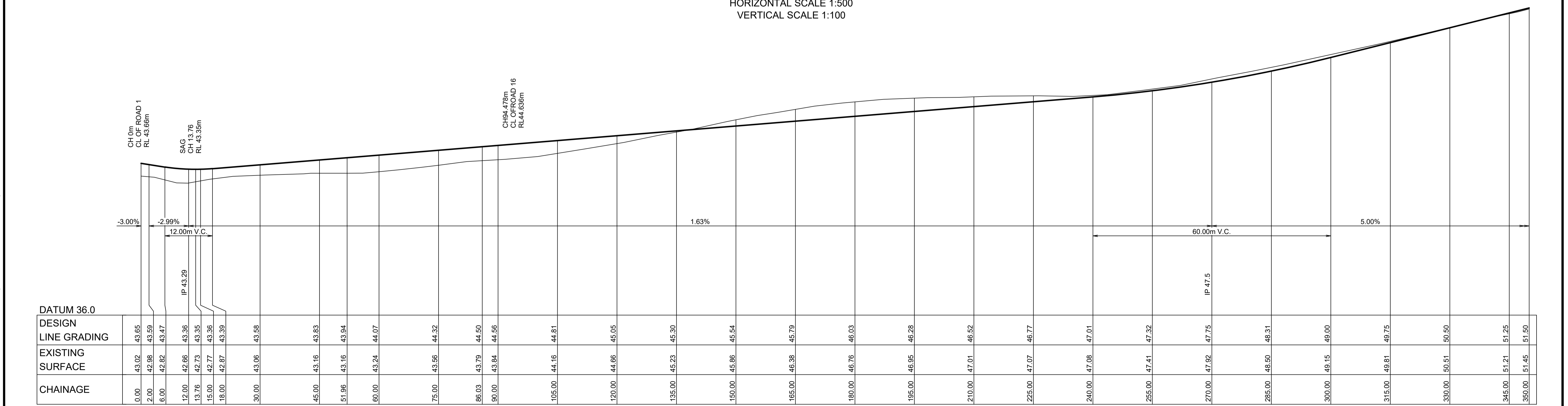
AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

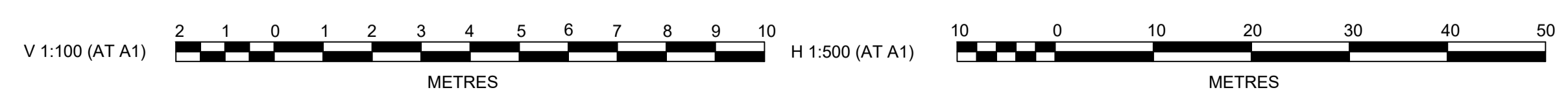
Plotted: 28 October, 2016 11:44:56 AM; File Name: \\1110358 - O'Connell Lane, Caddens\03 - Stage 2\CDD\DA110358DA212.dwg



LONGITUDINAL SECTION ROAD 12  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 12  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: M.G.A  
DATUM: A.H.D  
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CLIENT:

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CADDENS HILL  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 6

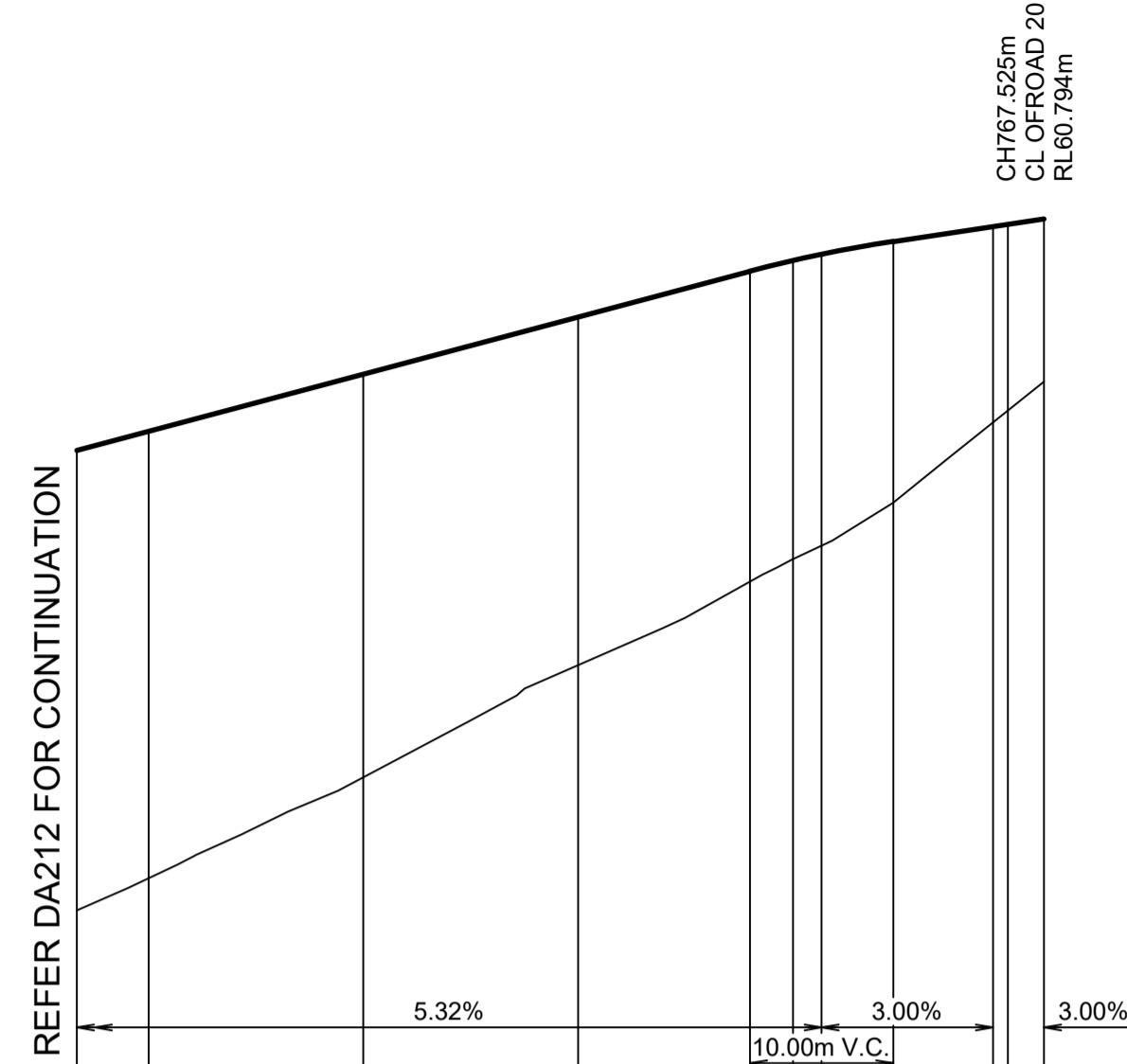
PLAN No: 110358/DA212 **A**

FILE No: 110358DA212

SHEET SIZE: A1 ORIGINAL

REFER DA213 FOR CONTINUATION

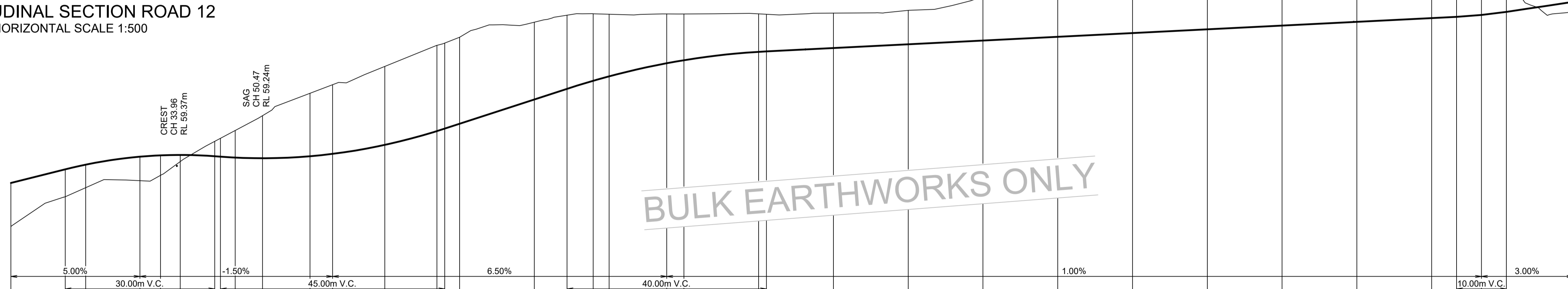
Plotted: 28 October, 2016 11:45:15 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CDDA\110358DA213.dwg



BULK EARTHWORKS ONLY

DATUM 45.0	
DESIGN LINE GRADING	57.96, 57.83, 58.82, 59.42, 60.06, 60.21, 60.30, 60.48, 60.69, 60.72, 60.79
EXISTING SURFACE	51.14, 51.58, 53.00, 54.56, 55.73, 56.04, 56.23, 56.83, 57.95, 58.12, 58.52
CHAINAGE	700.00, 705.00, 720.00, 735.00, 747.00, 750.00, 752.00, 757.00, 763.98, 765.00, 767.53

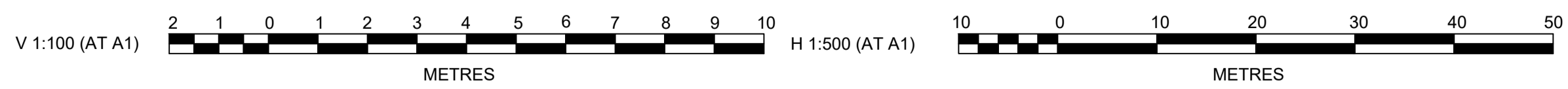
LONGITUDINAL SECTION ROAD 12  
HORIZONTAL SCALE 1:500



BULK EARTHWORKS ONLY

DATUM 50.0	
DESIGN LINE GRADING	58.25, 58.79, 58.98, 59.30, 59.35, 59.37, 59.32, 59.30, 59.27, 59.24, 59.32, 59.41, 59.77, 60.33, 60.43, 60.62, 61.59, 62.02, 62.34, 62.52, 63.05, 63.17, 63.50, 63.52, 63.66, 63.81, 64.11, 64.26, 64.41, 64.56, 64.71, 64.86, 64.91, 64.98, 65.11, 65.10
EXISTING SURFACE	56.51, 57.70, 58.06, 58.34, 58.55, 59.10, 59.91, 60.04, 60.35, 60.94, 61.84, 62.19, 62.92, 63.77, 63.85, 64.09, 64.69, 64.98, 65.03, 65.01, 65.06, 65.02, 65.03, 65.01, 65.06, 65.17, 65.09, 65.26, 65.34, 65.59, 65.68, 65.82, 65.86, 65.94, 65.94, 65.10
CHAINAGE	0.00, 10.88, 15.00, 25.88, 30.00, 33.96, 40.88, 42.03, 45.00, 50.47, 60.00, 64.53, 75.00, 85.46, 87.03, 90.00, 105.00, 111.56, 116.81, 120.00, 131.56, 135.00, 150.00, 151.56, 165.00, 180.00, 195.00, 210.00, 225.00, 240.00, 255.00, 270.00, 285.00, 290.00, 295.00, 300.00, 313.36

LONGITUDINAL SECTION ROAD 13  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS
	AMENDMENT	DES	DRN	CKD	APR
					28/10/16
					DATE

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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

CLIENT: **LEGACYPROPERTY**

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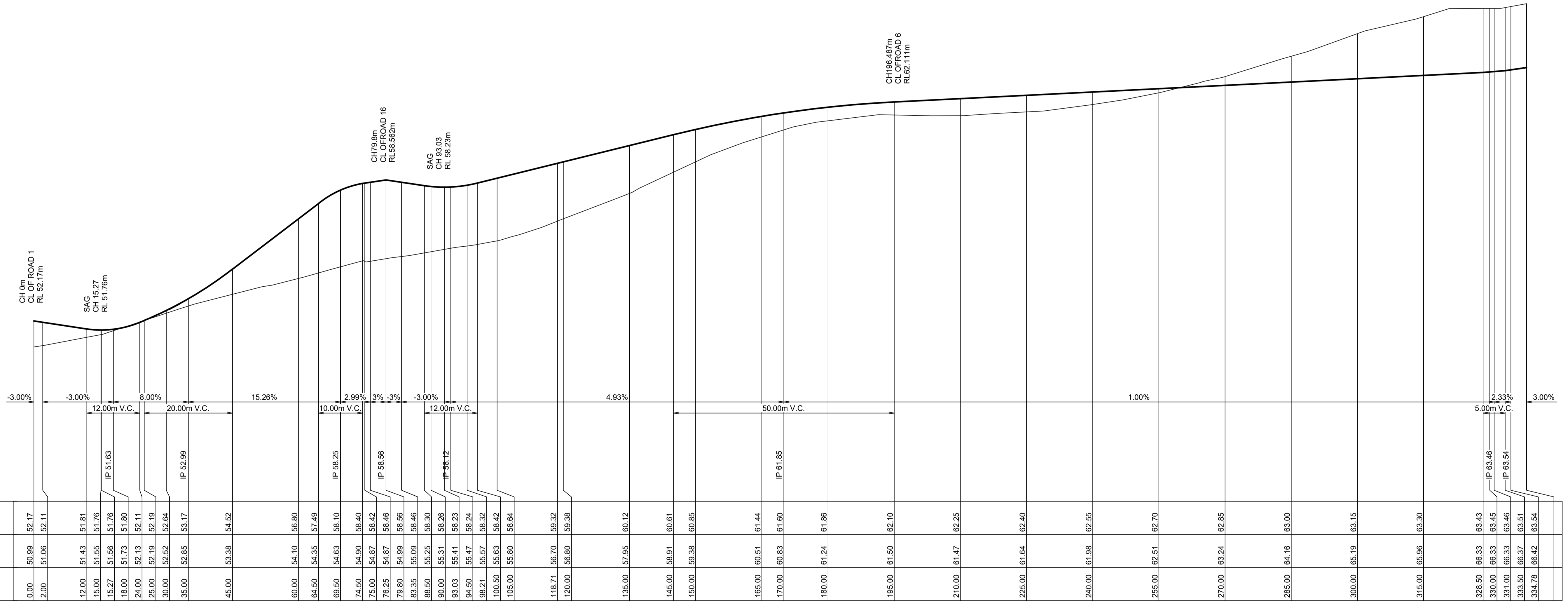
ISSUED FOR DA APPROVAL  
NOT FOR CONSTRUCTION

CADDENS HILL  
STAGES 2 - 4

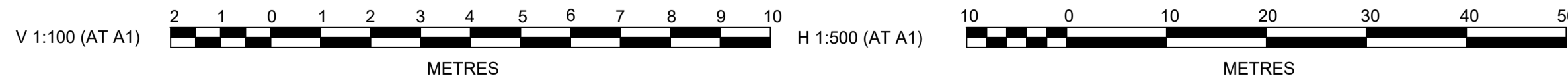
ROAD LONGITUDINAL SECTIONS - SHEET 7

PLAN No:	110358/DA213	A
FILE No:	110358DA213	
SHEET SIZE:	A1 ORIGINAL	

Plotted: 28 October, 2016 11:45:36 AM; File Name: \\110358 - O'Connell Lane, Caddens\03 - Stage 2\CDDA\110358DA214.dwg



LONGITUDINAL SECTION ROAD 14  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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AZIMUTH:  
M.G.A  
DATUM:  
A.H.D  
ORIGIN:

CLIENT:



LEGACYPROPERTY

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CADDENS HILL  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 8

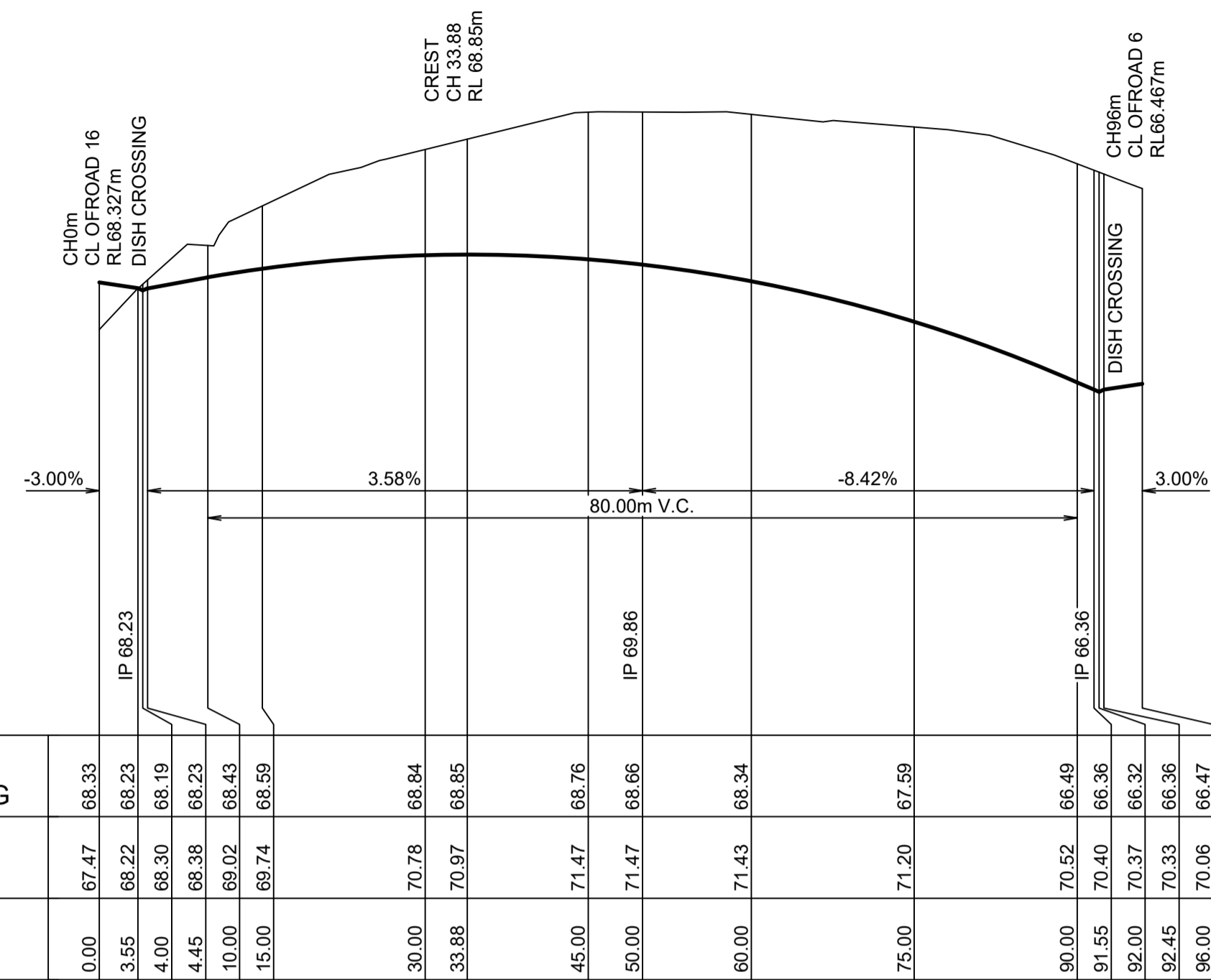
PLAN No:  
**110358/DA214** **A**

FILE No: 110358DA214

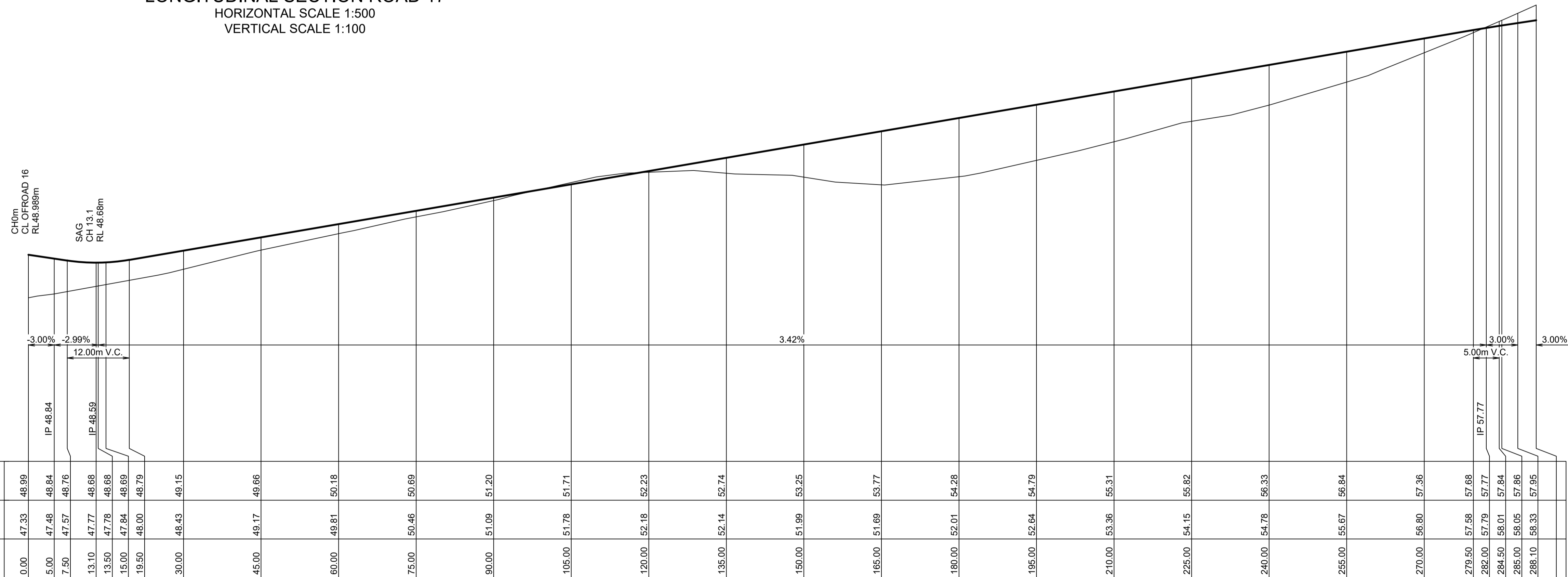
SHEET SIZE: A1 ORIGINAL

A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

Plotted: 28 October, 2016 11:45:56 AM; File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA215.dwg



LONGITUDINAL SECTION ROAD 17  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 15  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



CLIENT:



AZIMUTH:  
M.G.A  
DATUM:  
A.H.D  
ORIGIN:

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CADDENS HILL  
STAGES 2 - 4

PLAN No: 110358/DA215 **A**

FILE No: 110358DA215

ROAD LONGITUDINAL SECTIONS - SHEET 9

SHEET SIZE: A1 ORIGINAL

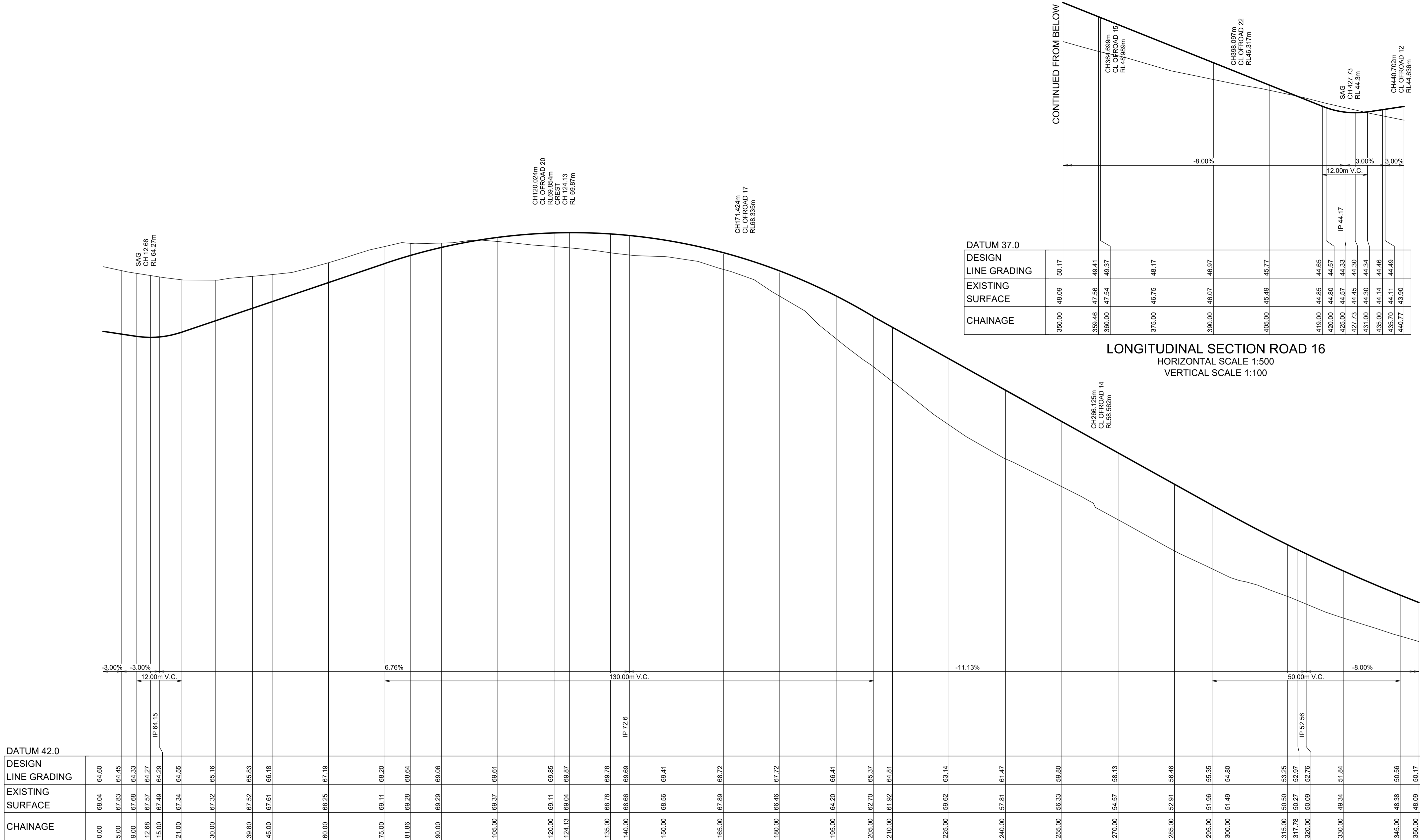
A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

PO Box 4366 PENRITH WESTFIELD NSW 2750  
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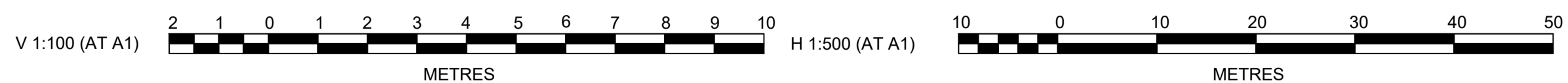
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Plotted: 28 October, 2016 11:46:16 AM. File Name: \\1110358 - O'Connell Lane, Caddens\03 - Stage 2\CDDA\110358DA216.dwg



**LONGITUDINAL SECTION ROAD 16**  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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AZIMUTH:  
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DATUM:  
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ORIGIN:

CLIENT:

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**CADDENS HILL**  
STAGES 2 - 4

ROAD LONGITUDINAL SECTIONS - SHEET 10

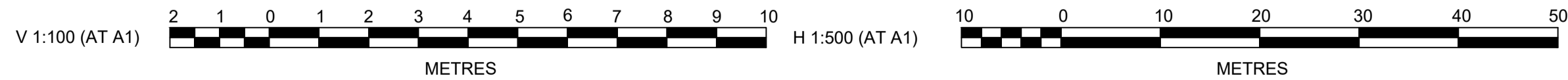
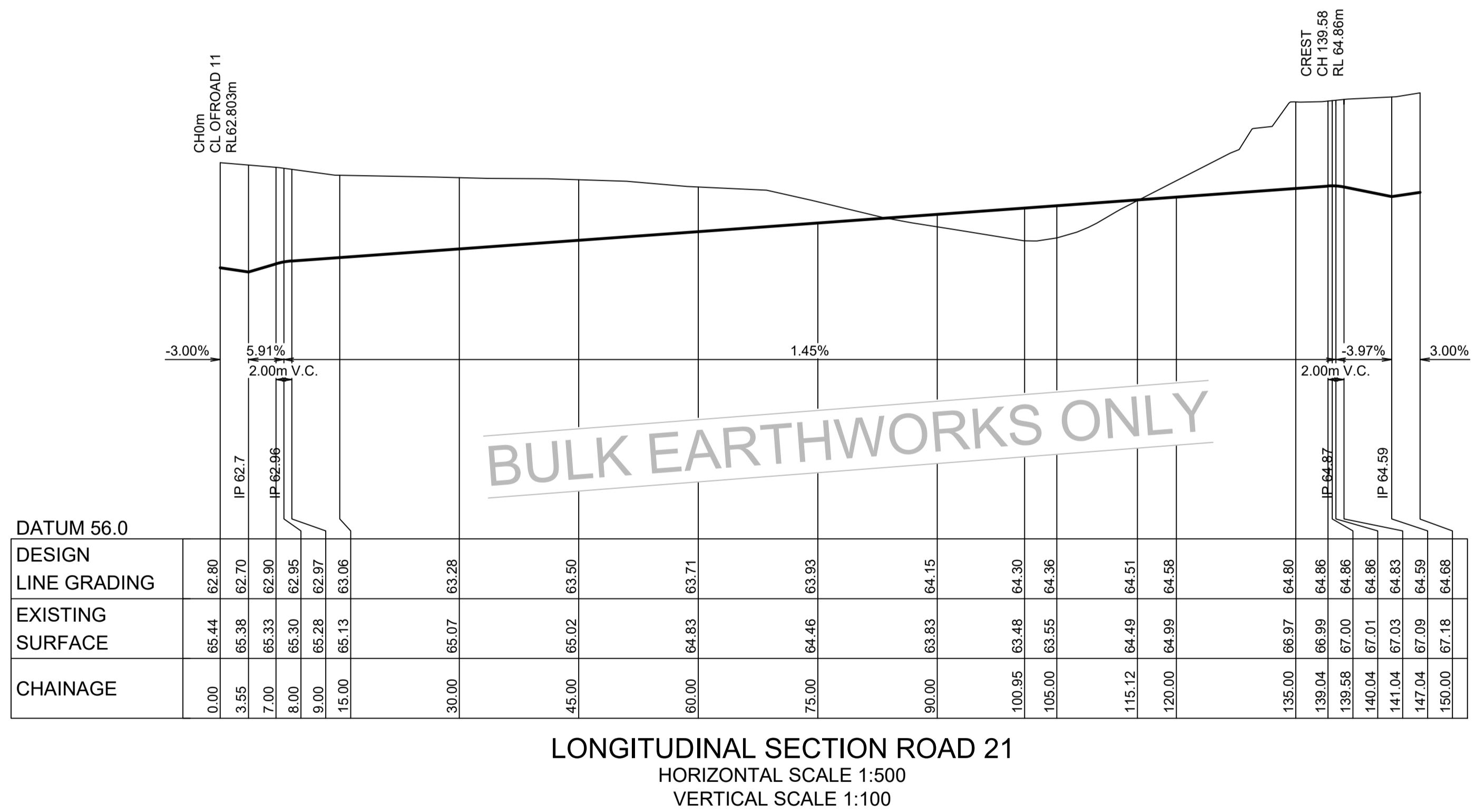
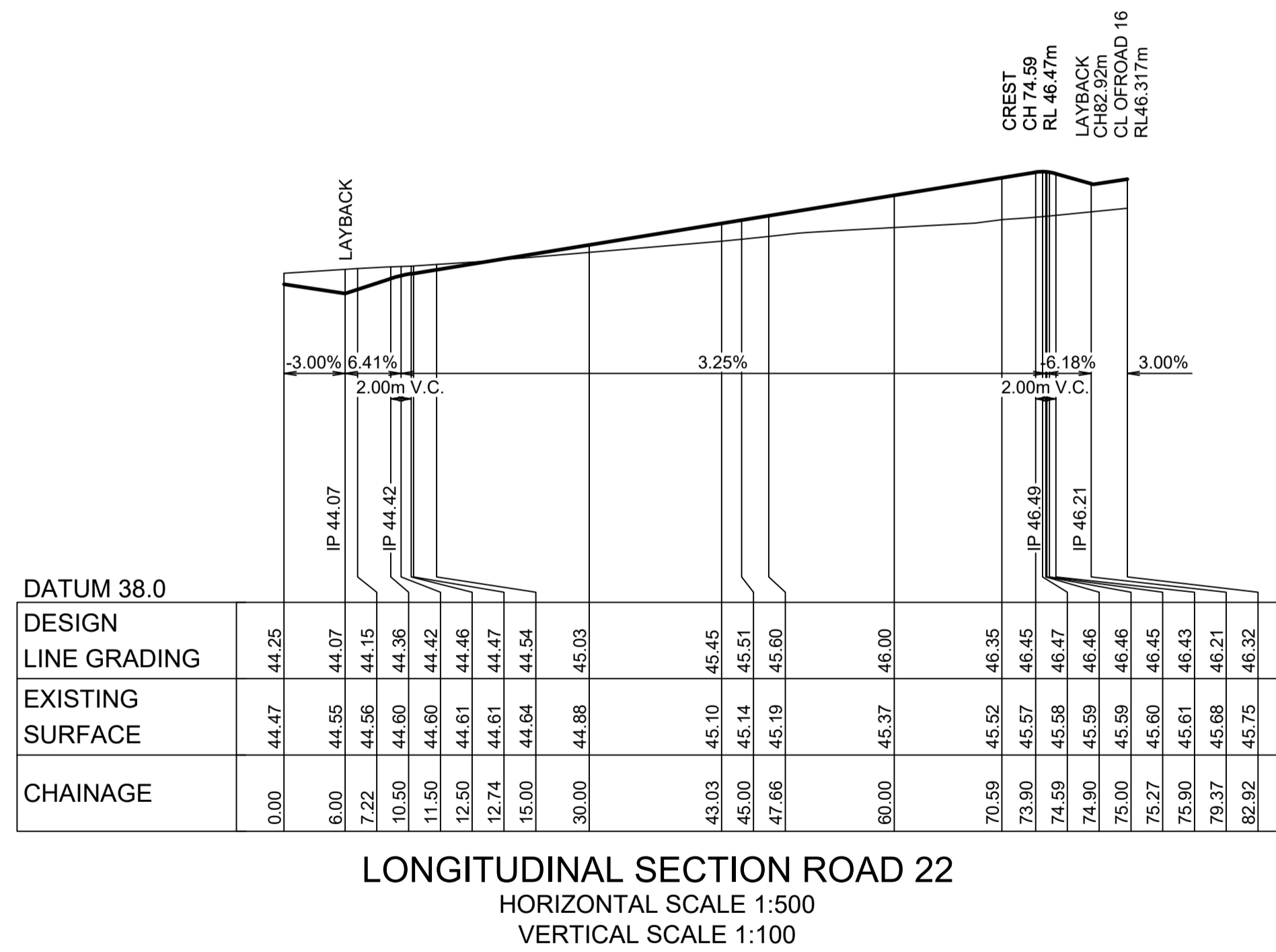
PLAN No: **110358/DA216** A

FILE No: 110358DA216

SHEET SIZE: A1 ORIGINAL

ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
AMENDMENT	DES	DRN	CKD	APR	DATE

Plotted: 28 October, 2016 12:07:57 PM. File Name: J110358 - OConnell Lane, Caddens03 - Stage 2/CDDA110358DA217.dwg



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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:



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**CADDENS HILL  
STAGES 2 - 4**

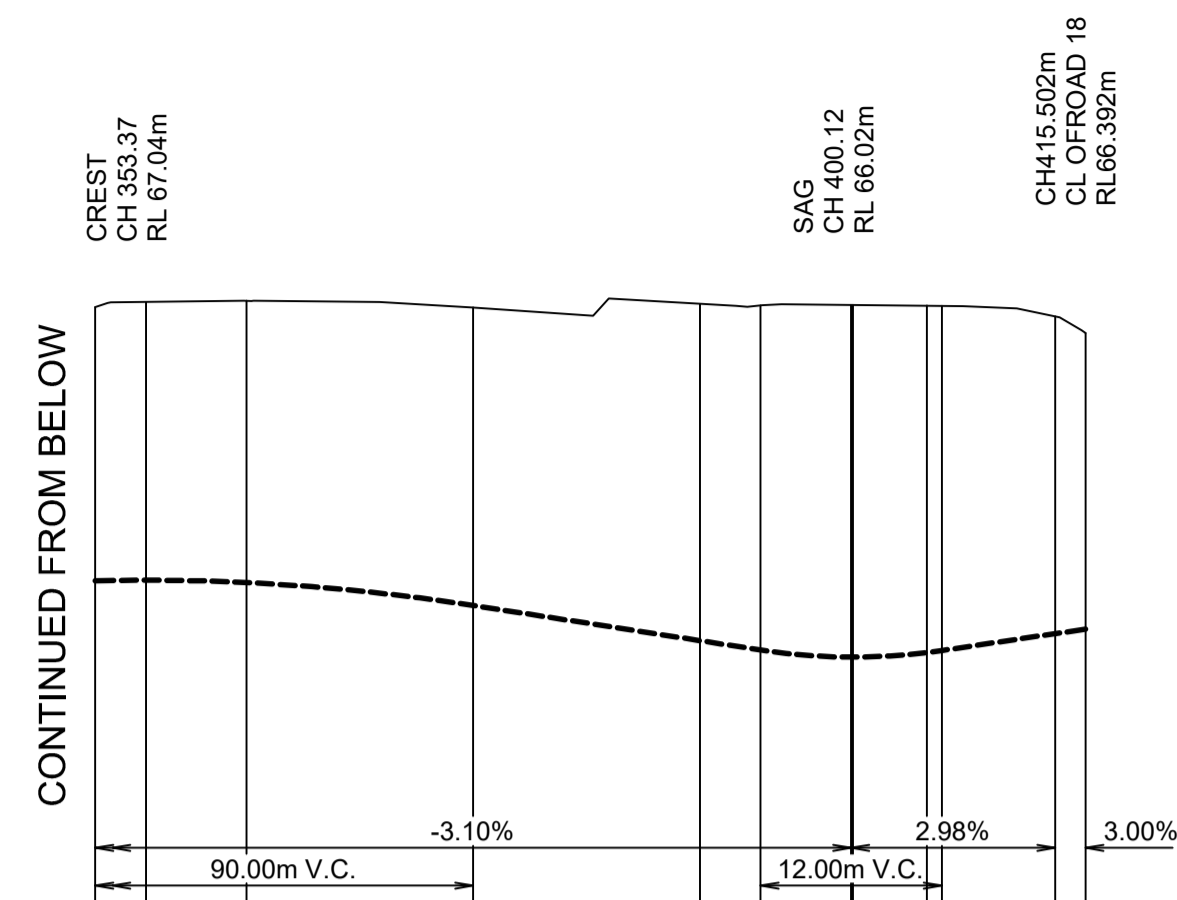
PLAN No: **110358/DA217** A

FILE No: 110358DA217

SHEET SIZE: A1 ORIGINAL

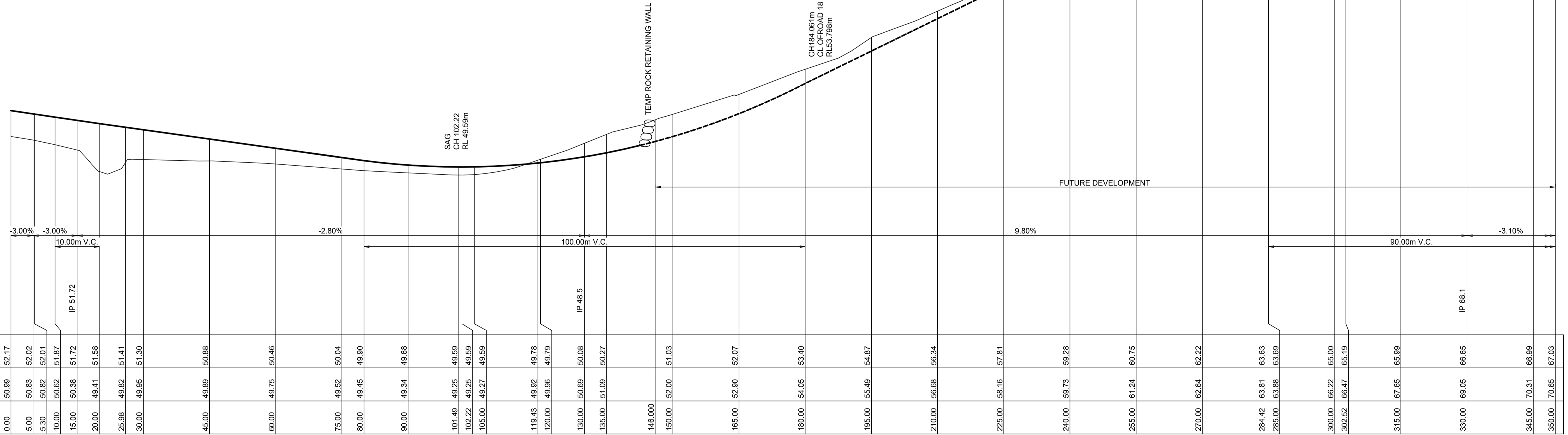
ROAD LONGITUDINAL SECTIONS - SHEET 11

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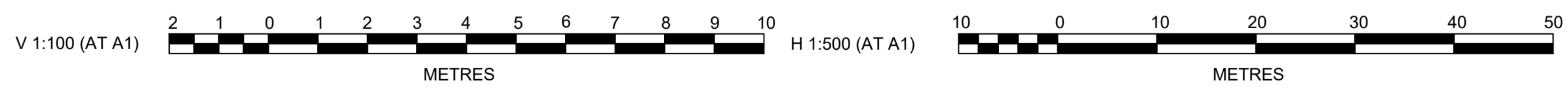
DATUM 59.0	
DESIGN LINE GRADING	67.03
EXISTING SURFACE	70.65
CHAINAGE	350.00
	353.37
	360.00
	375.00
	390.00
	394.00
	400.00
	400.12
	405.00
	406.00
	413.50
	415.50

LONGITUDINAL SECTION ROAD 19  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



DATUM 42.0	
DESIGN LINE GRADING	52.17
EXISTING SURFACE	50.99
CHAINAGE	0.00
	5.00
	10.00
	15.00
	20.00
	25.98
	30.00
	45.00
	60.00
	75.00
	80.00
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	119.43
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	130.00
	135.00
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	150.00
	165.00
	180.00
	195.00
	210.00
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	240.00
	255.00
	270.00
	284.42
	285.00
	300.00
	302.52
	315.00
	330.00
	345.00
	350.00

LONGITUDINAL SECTION ROAD 19  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



Plotted: 28 October, 2016 11:46:56 AM. File Name: J:\110358 - OConnell Lane, Caddens\03 - Stage 2\CDDA\110358DA218.dwg

A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

CLIENT:   
**LEGACYPROPERTY**

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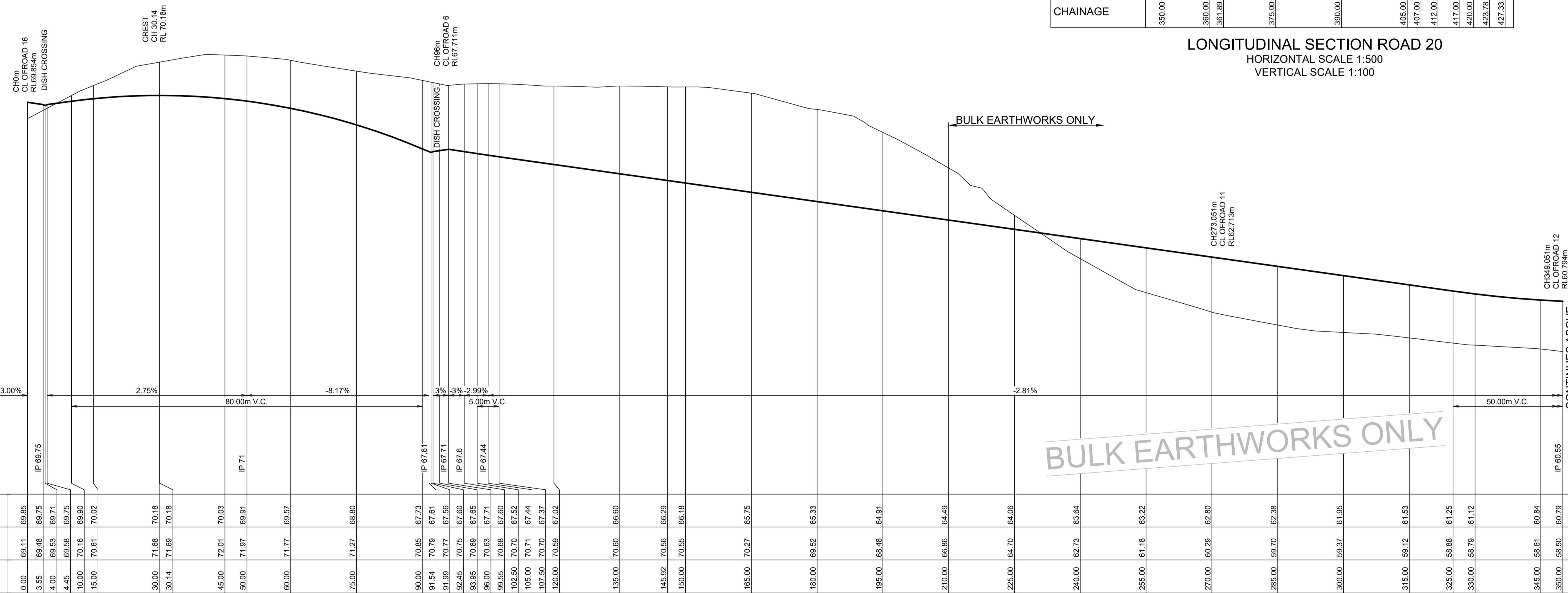
**ISSUED FOR DA APPROVAL**  
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**CADDENS HILL STAGES 2 - 4**

ROAD LONGITUDINAL SECTIONS - SHEET 12

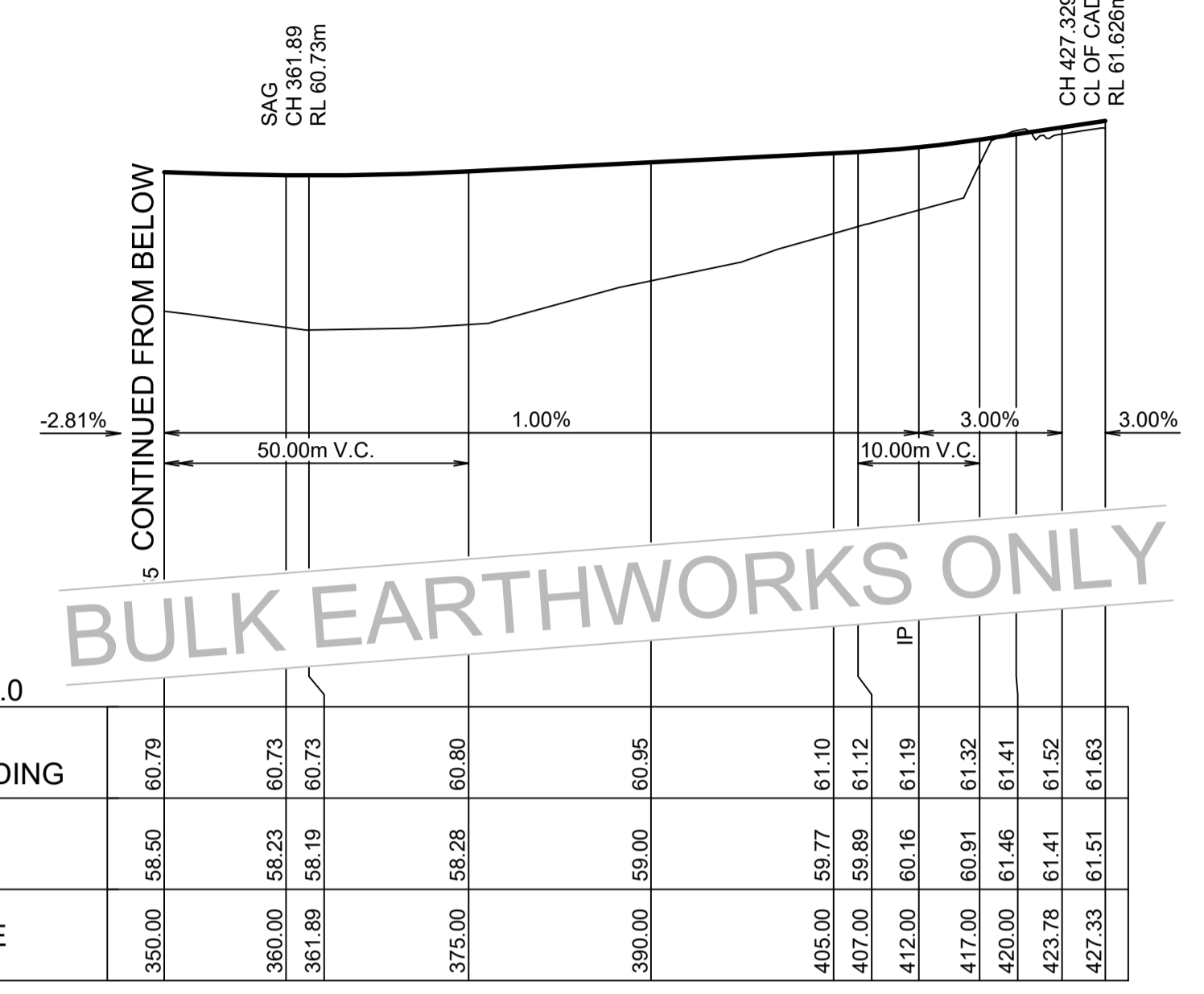
PLAN No: 110358/DA218 **A**  
FILE No: 110358DA218  
SHEET SIZE: A1 ORIGINAL

Plotted: 28 October, 2016 11:47:17 AM. File Name: J:\110358 - Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA219.dwg

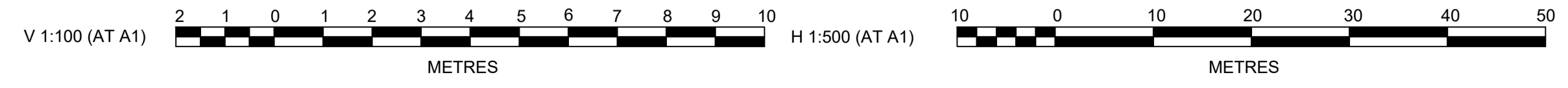


DATUM 52.0		DESIGN LINE GRADING		EXISTING SURFACE		CHAINAGE	
0.00	69.85	69.85	69.11	69.11	0.00		
3.55	69.75	69.75	69.48	69.48	3.55		
4.00	69.71	69.71	69.53	69.53	4.00		
4.45	69.75	69.75	69.58	69.58	4.45		
10.00	70.02	70.02	70.16	70.16	10.00		
15.00	70.18	70.18	70.61	70.61	15.00		
30.00	70.18	70.18	71.68	71.68	30.00		
30.14	70.18	70.18	71.69	71.69	30.14		
45.00	70.03	70.03	72.01	72.01	45.00		
50.00	69.91	69.91	71.97	71.97	50.00		
60.00	69.57	69.57	71.77	71.77	60.00		
75.00	68.80	68.80	71.27	71.27	75.00		
90.00	67.73	67.73	70.85	70.85	90.00		
91.54	67.61	67.61	70.79	70.79	91.54		
91.99	67.56	67.56	70.77	70.77	91.99		
92.45	67.60	67.60	70.75	70.75	92.45		
93.95	67.65	67.65	70.89	70.89	93.95		
96.00	67.71	67.71	70.63	70.63	96.00		
99.55	67.60	67.60	70.68	70.68	99.55		
102.50	67.52	67.52	70.70	70.70	102.50		
105.00	67.44	67.44	70.71	70.71	105.00		
107.50	67.37	67.37	70.70	70.70	107.50		
120.00	67.02	67.02	70.59	70.59	120.00		
135.00	66.60	66.60	70.60	70.60	135.00		
145.92	66.29	66.29	70.56	70.56	145.92		
150.00	66.18	66.18	70.55	70.55	150.00		
165.00	65.75	65.75	70.27	70.27	165.00		
180.00	65.33	65.33	69.52	69.52	180.00		
195.00	64.91	64.91	68.48	68.48	195.00		
210.00	64.49	64.49	66.86	66.86	210.00		
225.00	64.06	64.06	64.70	64.70	225.00		
240.00	63.64	63.64	62.73	62.73	240.00		
255.00	63.22	63.22	61.18	61.18	255.00		
270.00	62.80	62.80	60.29	60.29	270.00		
285.00	62.38	62.38	59.70	59.70	285.00		
300.00	61.95	61.95	59.37	59.37	300.00		
315.00	61.53	61.53	59.12	59.12	315.00		
325.00	61.25	61.25	58.88	58.88	325.00		
330.00	61.12	61.12	58.79	58.79	330.00		
345.00	60.84	60.84	58.61	58.61	345.00		
350.00	60.79	60.79	58.50	58.50	350.00		

LONGITUDINAL SECTION ROAD 20  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 20  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

CLIENT: **LEGACYPROPERTY**

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CADDENS HILL STAGES 2 - 4

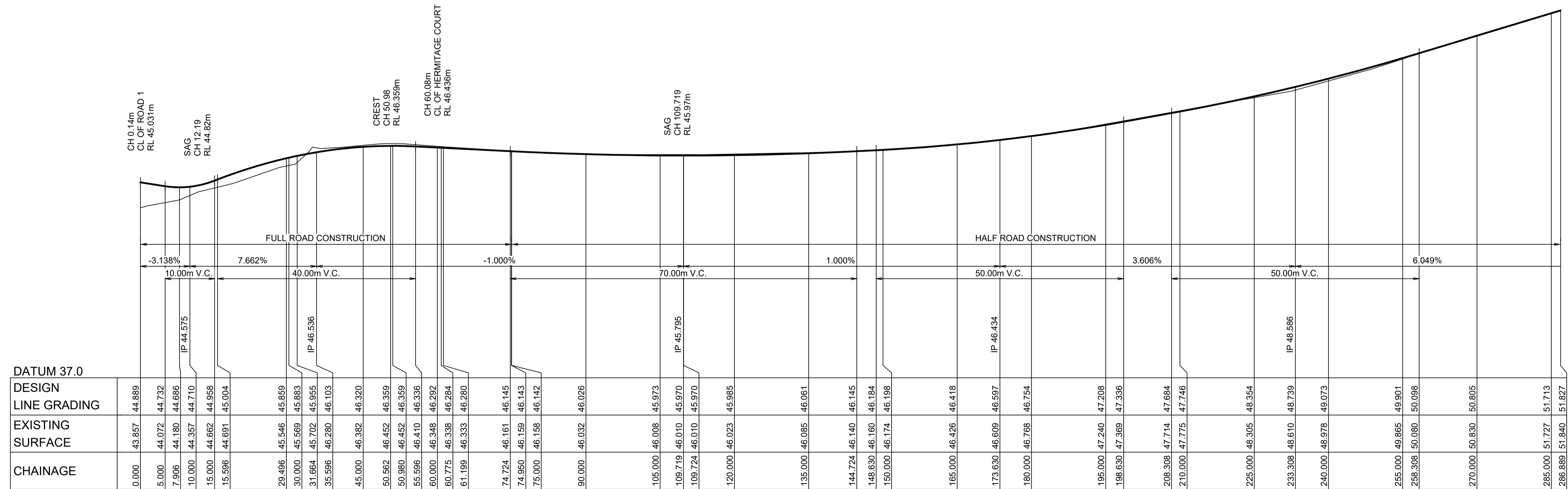
PLAN No: 110358/DA219 **A**

FILE No: 110358DA219

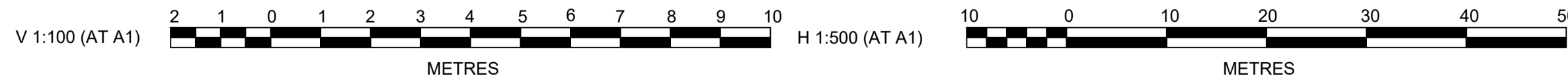
SHEET SIZE: A1 ORIGINAL

ROAD LONGITUDINAL SECTIONS - SHEET 13

Plotted: 28 October, 2016 11:47:37 AM. File Name: J:\110358 - O'Connell Lane - Caddens\03 - Stage 2\CD\DA\110358DA220.dwg



LONGITUDINAL SECTION CADDENS ROAD EAST  
HORIZONTAL SCALE 1:500  
VERTICAL SCALE 1:100



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A.H.D  
ORIGIN:



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CADDENS HILL  
STAGES 2 - 4

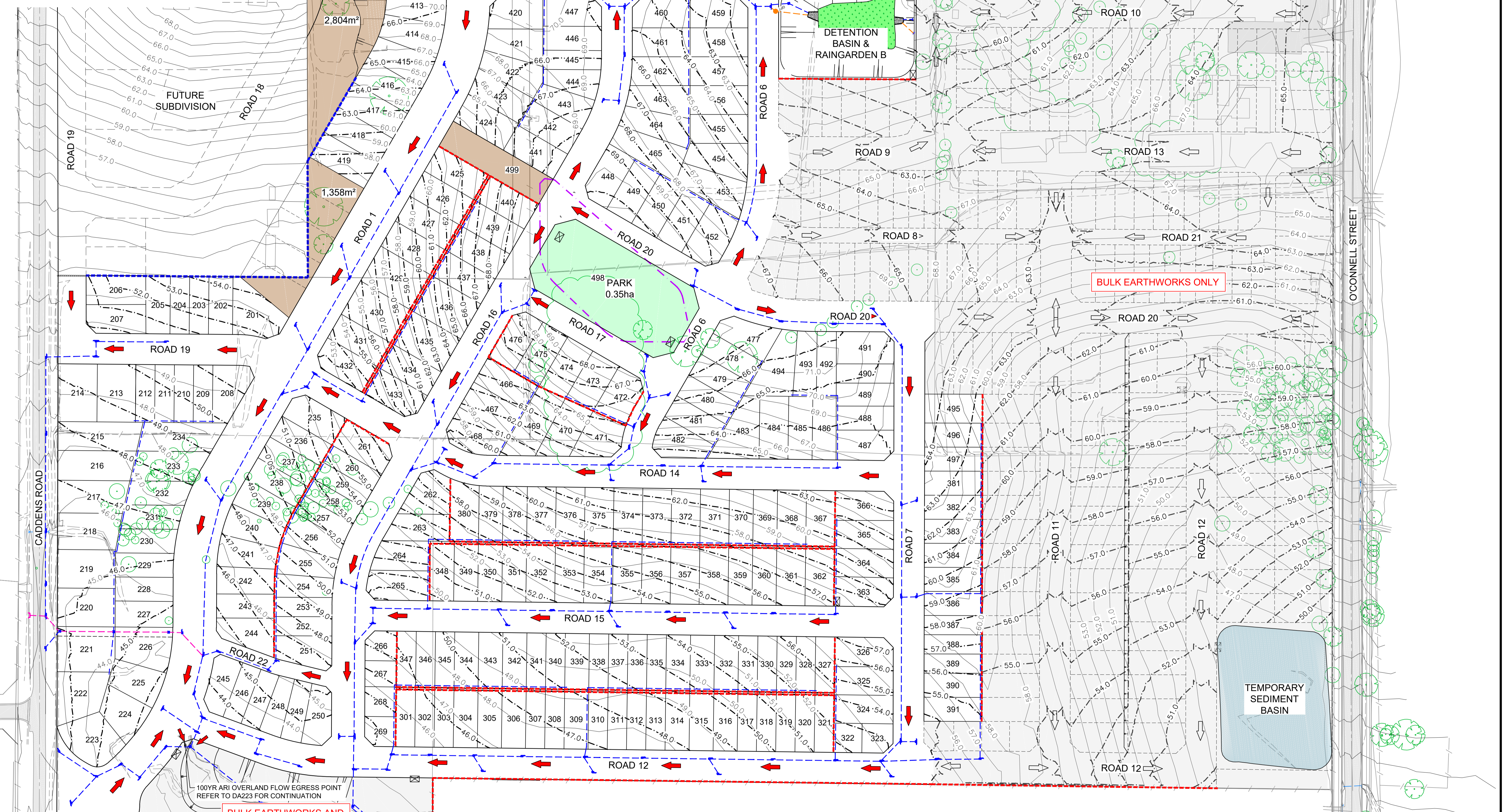
ROAD LONGITUDINAL SECTIONS - SHEET 14

PLAN No: 110358/DA220 **A**  
FILE No: 110358DA220  
SHEET SIZE: A1 ORIGINAL

A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

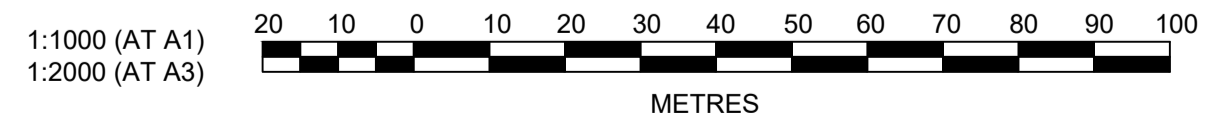
**LEGEND**

- PROPOSED STORMWATER PIPE (5YR ARI PIPE)
- - - PROPOSED STORMWATER PIPE (1YR ARI PIPE)
- - - PROPOSED STORMWATER PIPE (100YR ARI PIPE)
- ➔ FLOW DIRECTION



**BULK EARTHWORKS AND DETENTION BASIN CONSTRUCTION ONLY**

**BULK EARTHWORKS ONLY**



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AZIMUTH: M.G.A  
 DATUM: A.H.D  
 ORIGIN:

CLIENT:

**LEGACYPROPERTY**

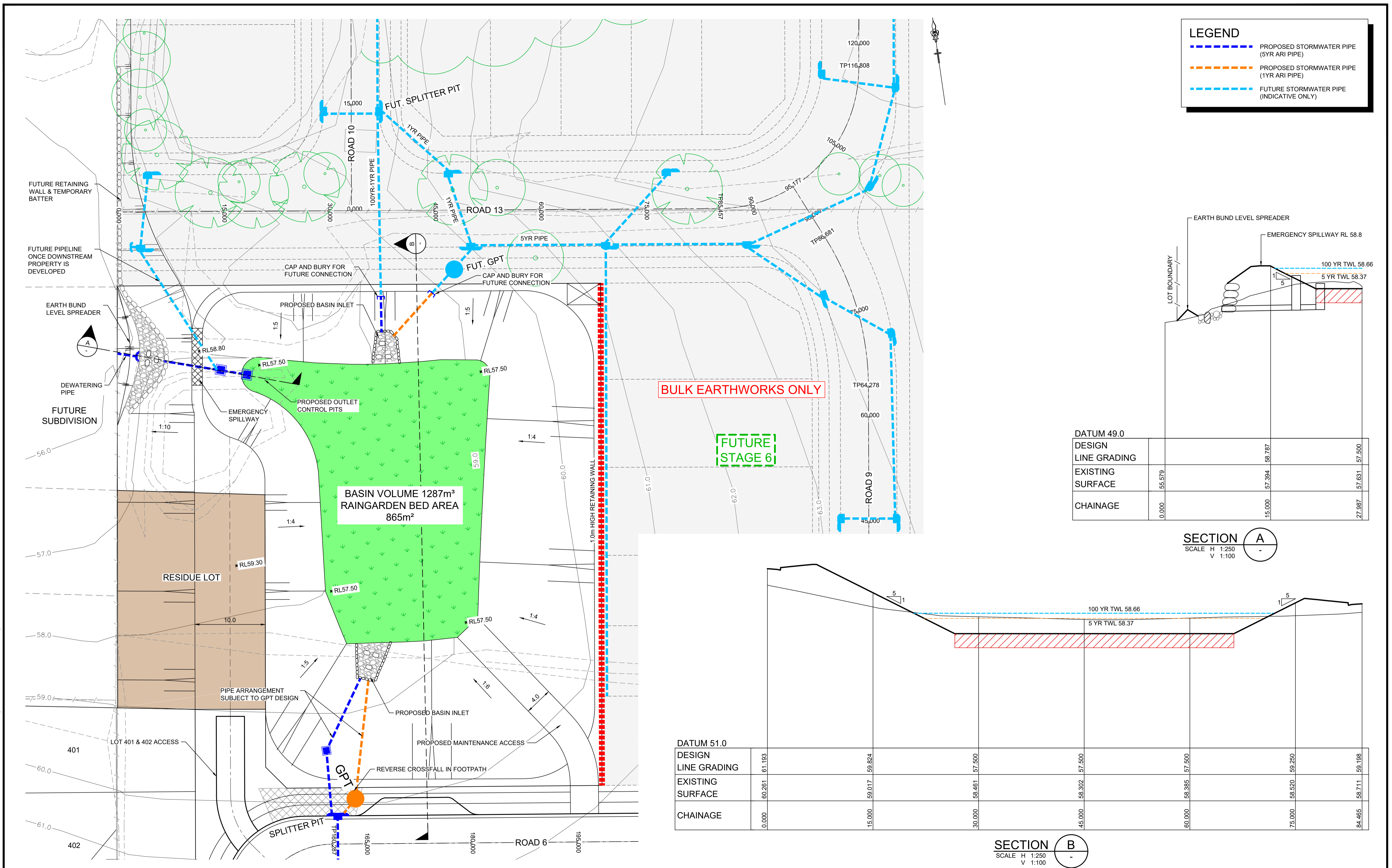
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**CADDENS HILL STAGES 2 - 4**  
 STORMWATER PLAN

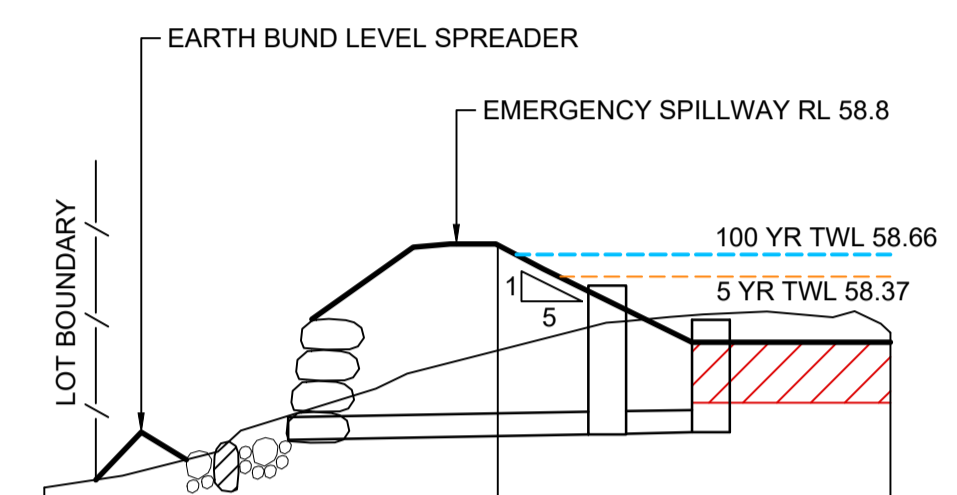
PLAN No:	110358/DA221	<b>A</b>
FILE No:	110358DA221	
SHEET SIZE:	A1 ORIGINAL	

Plotted: 28 October, 2016 11:48:21 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA221.dwg



**LEGEND**

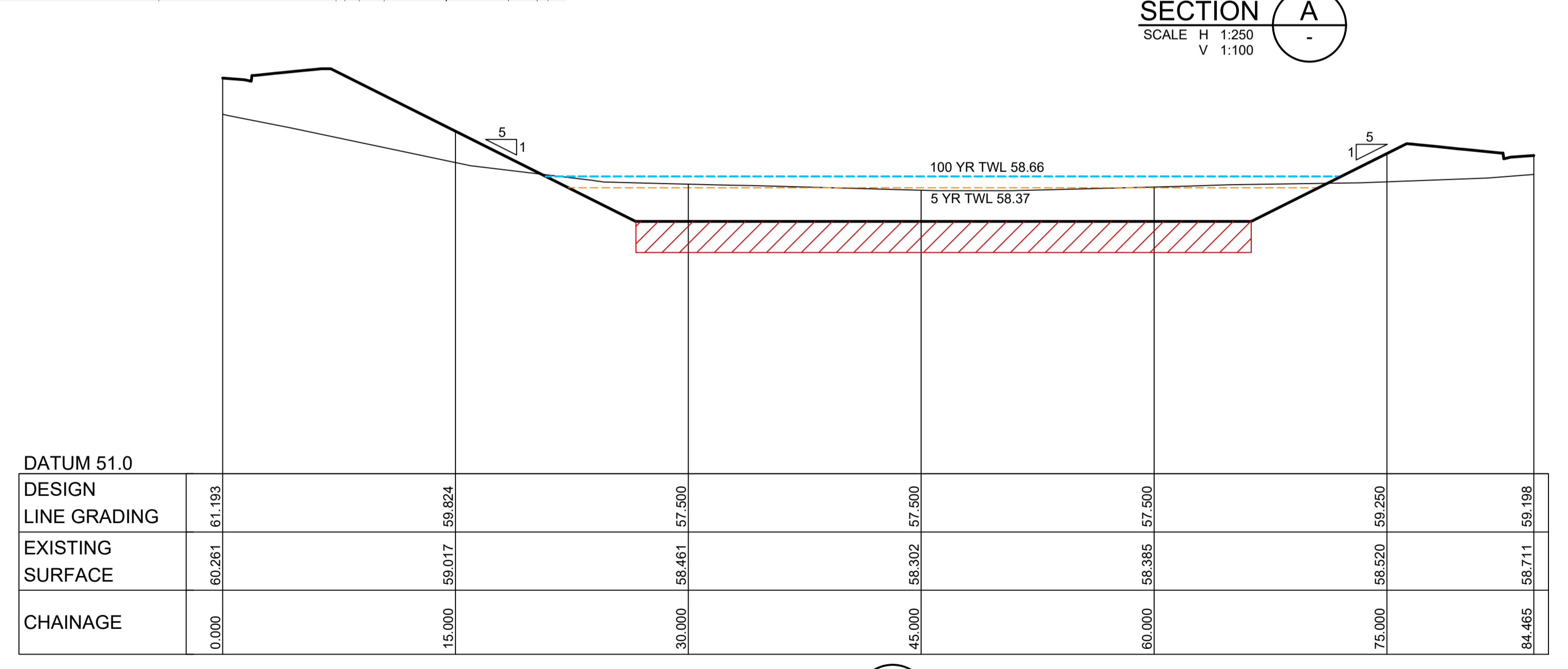
- PROPOSED STORMWATER PIPE (5YR ARI PIPE)
- - - PROPOSED STORMWATER PIPE (1YR ARI PIPE)
- - - FUTURE STORMWATER PIPE (INDICATIVE ONLY)



DATUM 49.0

DESIGN LINE GRADING		58.787	57.500
EXISTING SURFACE	55.579	57.394	57.631
CHAINAGE	0.000	15.000	27.987

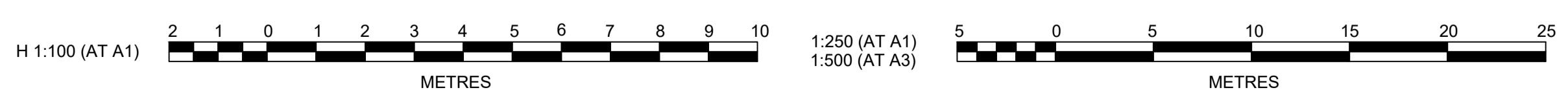
**SECTION A**  
SCALE H 1:250  
V 1:100



DATUM 51.0

DESIGN LINE GRADING	61.193	59.824	57.500	57.500	57.500	59.250	59.198
EXISTING SURFACE	60.261	59.017	58.461	58.302	58.385	58.520	58.711
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	84.465

**SECTION B**  
SCALE H 1:250  
V 1:100



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CADDENS HILL  
STAGES 2 - 4

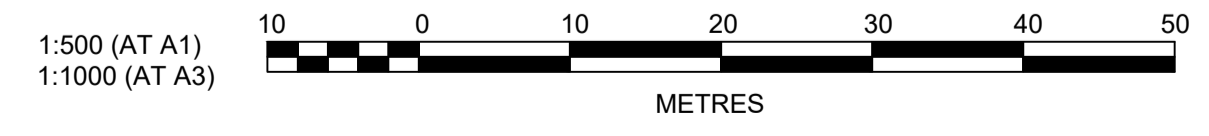
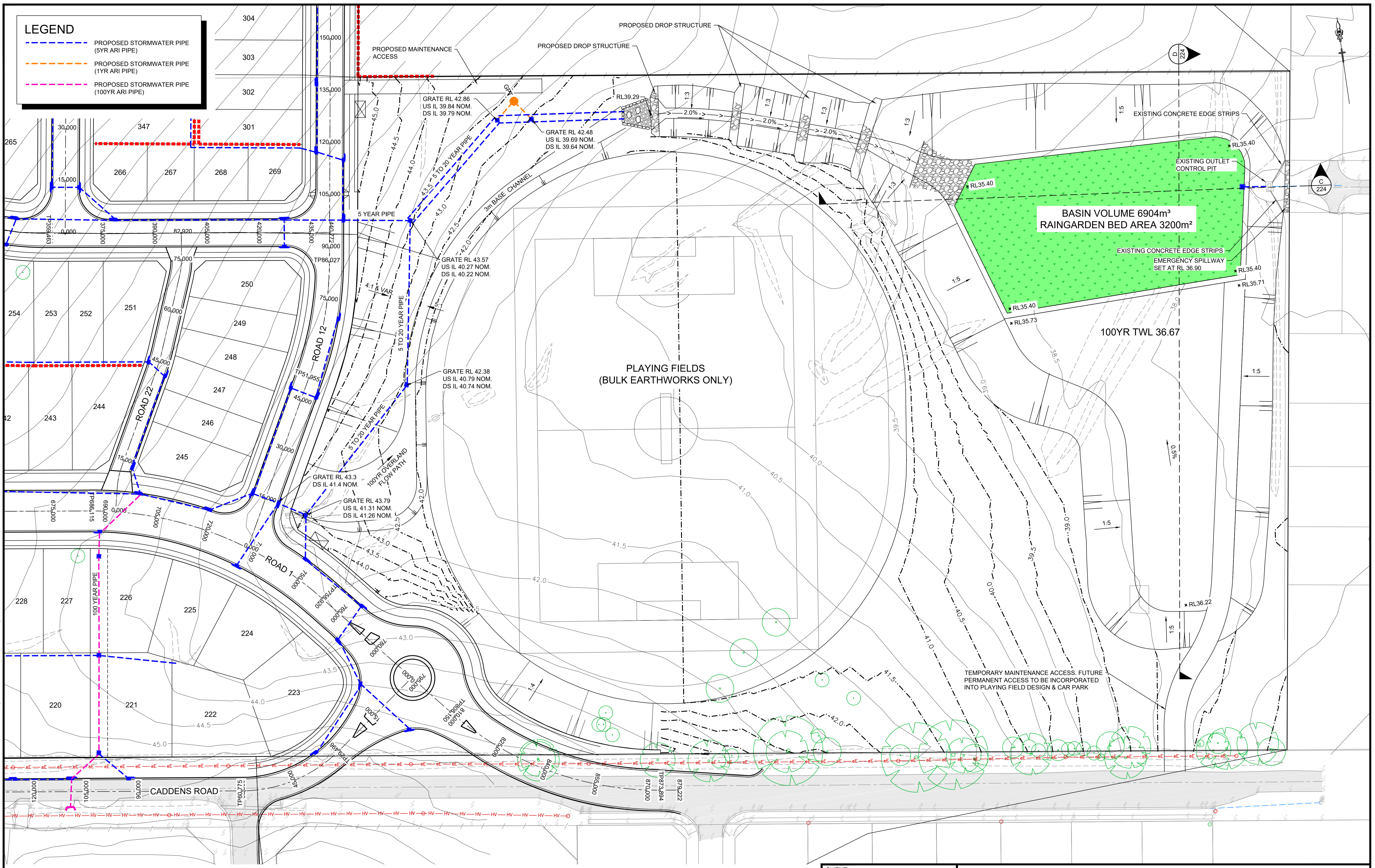
BASIN & RAINGARDEN B - PLAN & SECTIONS

PLAN No:  
**110358/DA222** A  
FILE No: 110358DA222  
SHEET SIZE: A1 ORIGINAL

Plotted: 28 October, 2016 11:49:13 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA222.dwg

**LEGEND**

- PROPOSED STORMWATER PIPE (5YR ARI PIPE)
- PROPOSED STORMWATER PIPE (1YR ARI PIPE)
- PROPOSED STORMWATER PIPE (100YR ARI PIPE)



CLIENT:

**LEGACYPROPERTY**

AZIMUTH: M.G.A  
DATUM: A.H.D  
ORIGIN:

**ISSUED FOR DA APPROVAL**  
NOT FOR CONSTRUCTION

CADDENS HILL  
STAGES 2 - 4

PLAN No: 110358/DA223 **A**

FILE No: 110358DA223

SHEET SIZE: A1 ORIGINAL

BASIN & RAINGARDEN D - PLAN

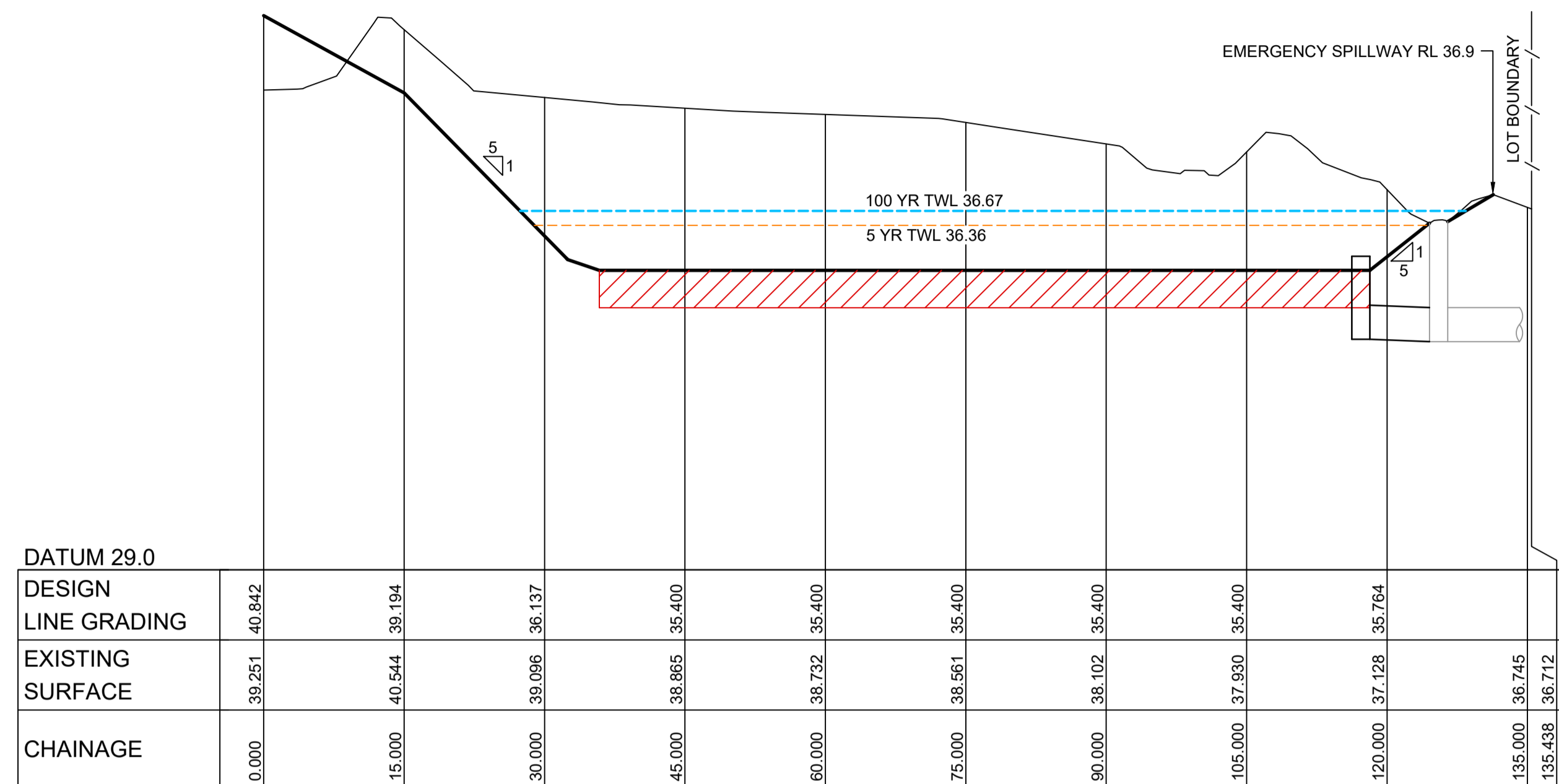
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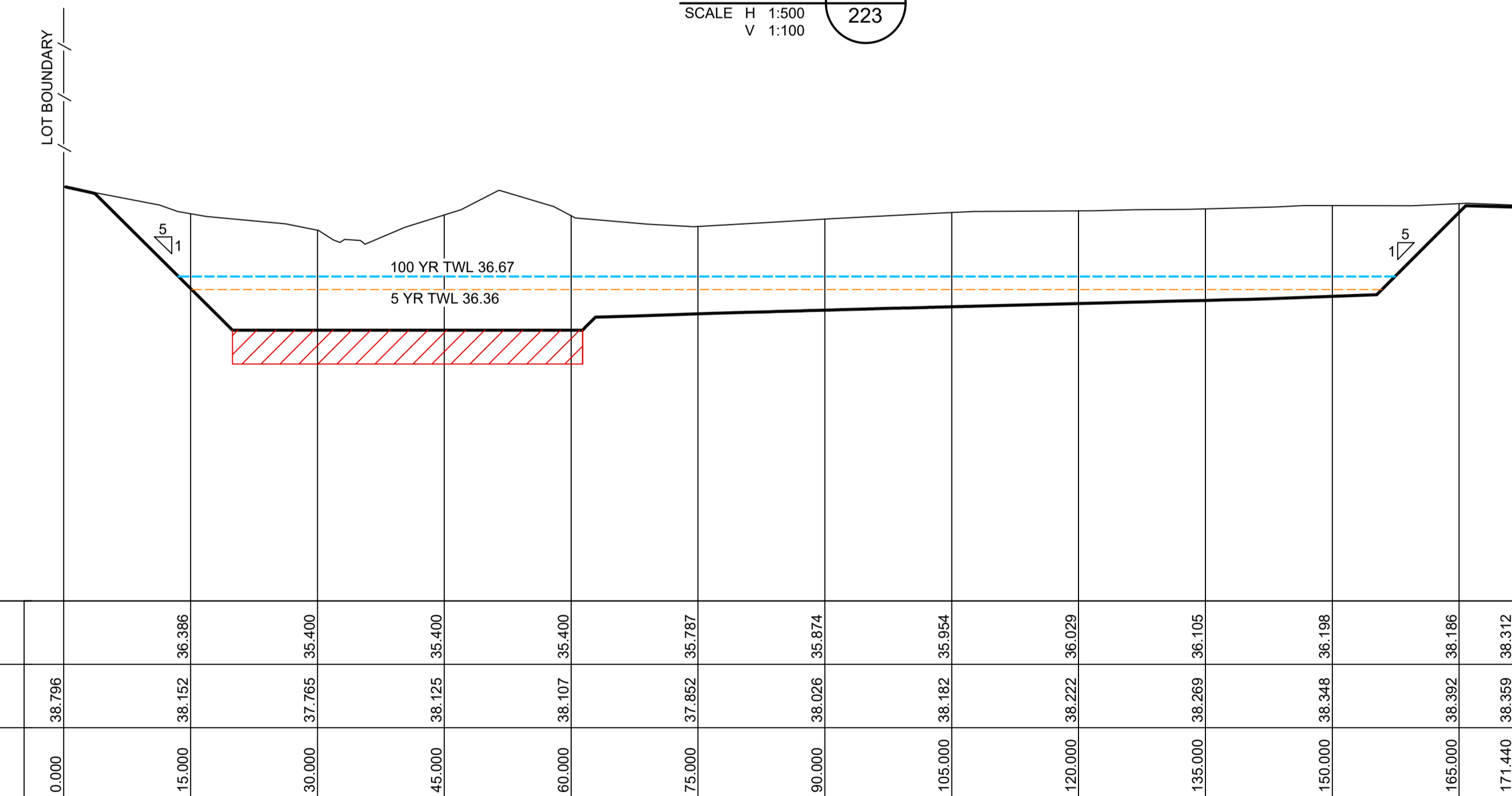
A	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	JT / RT	JT	AM	MS	28/10/16
		DES	DRN	CKD	APR	DATE

Plotted: 28 October, 2016 11:50:10 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA223.dwg

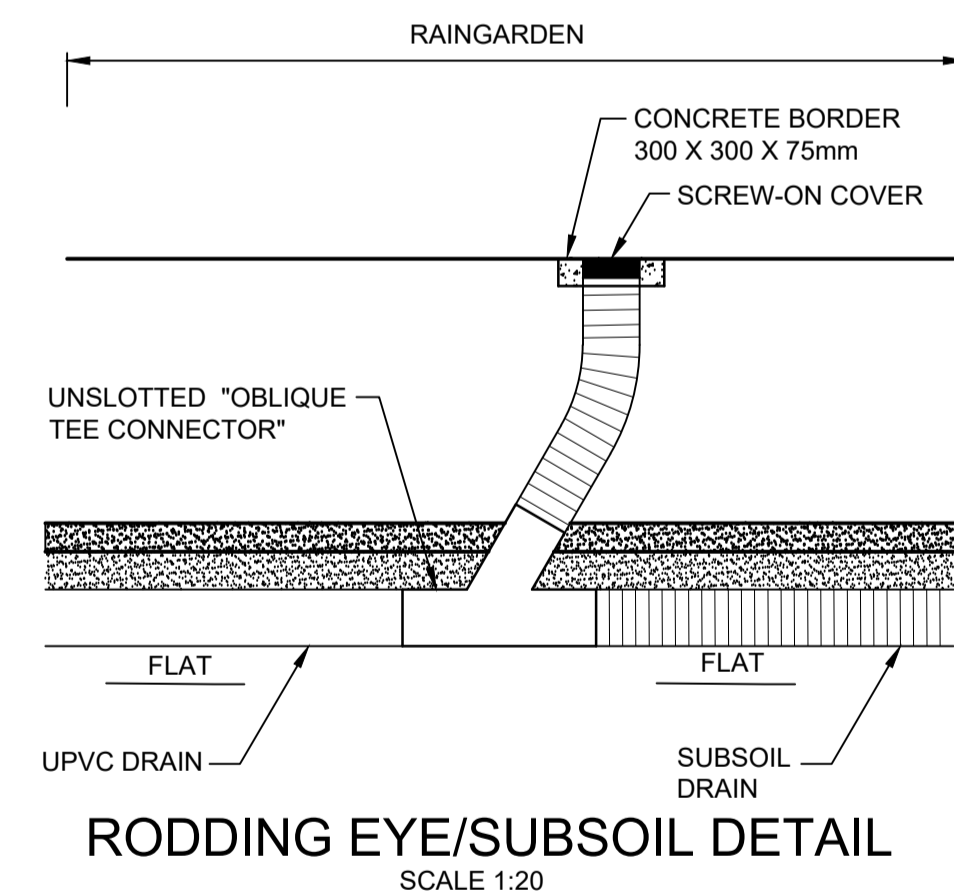
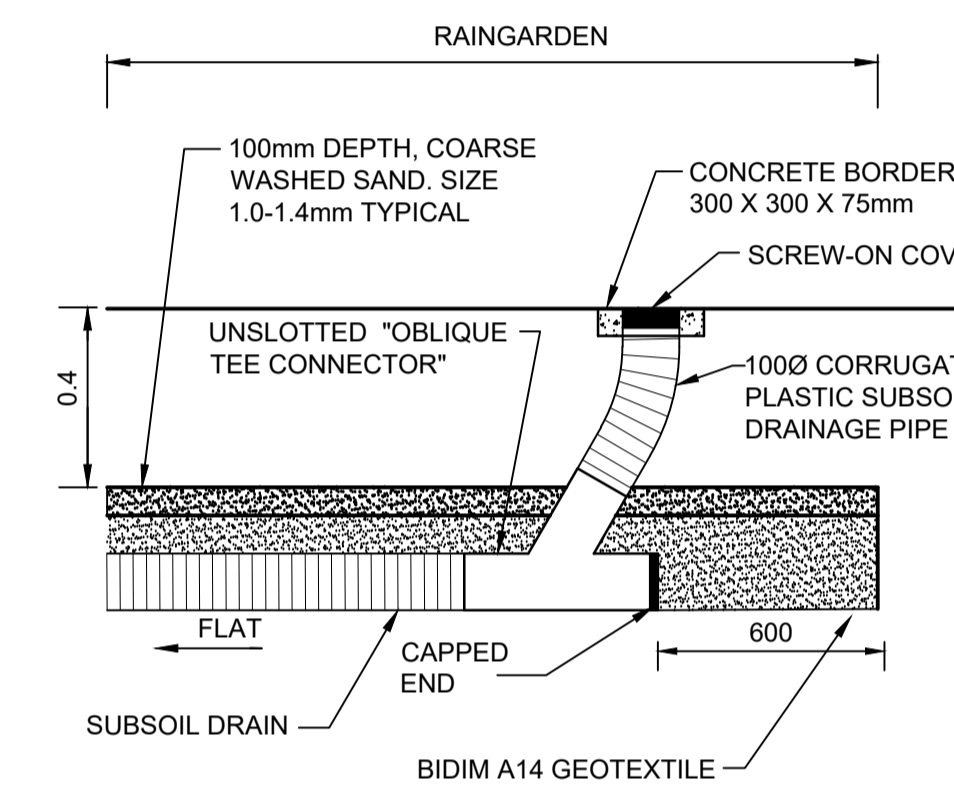
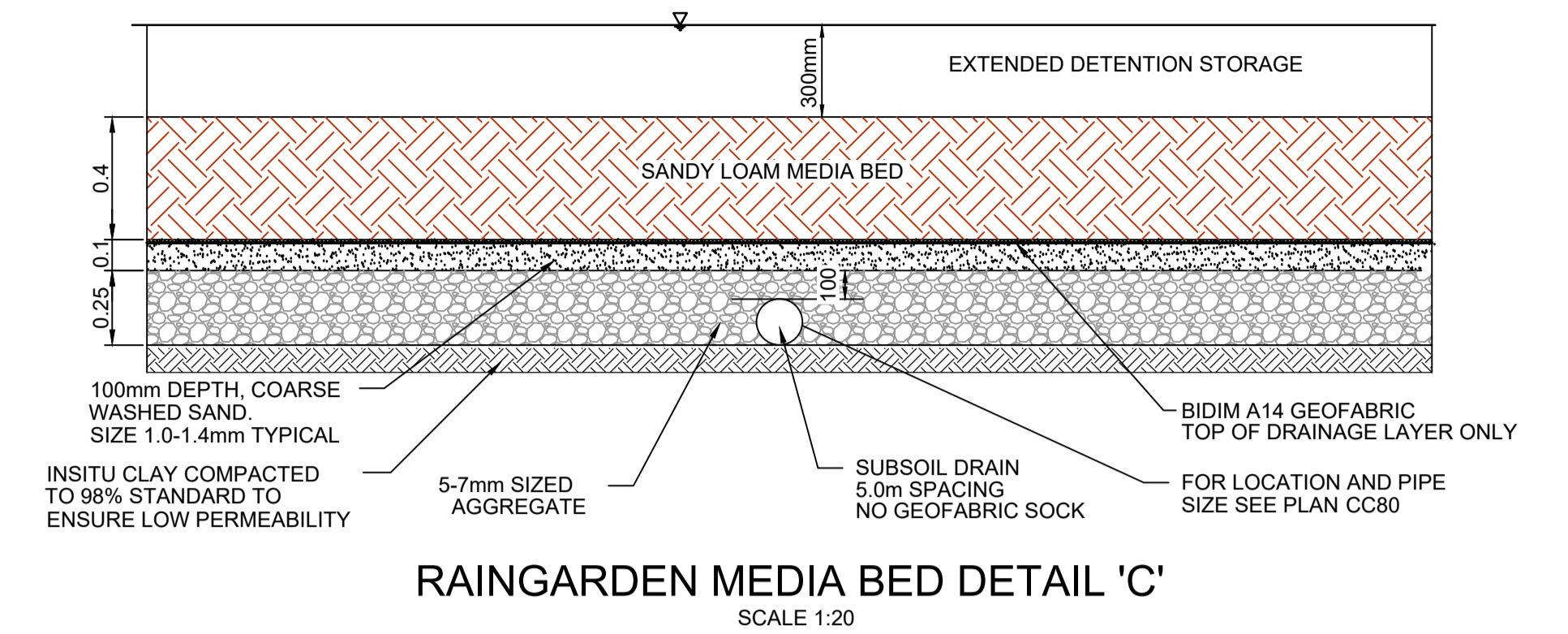




SECTION C  
SCALE H 1:500  
V 1:100



SECTION D  
SCALE H 1:500  
V 1:100



MEDIA MATERIAL IN BIO FILTRATION  
DEFINITIONS - AS1726-1993

SEDIMENT	SIZE(mm)	
BOULDERS	>200	
COBBLES	63-200	
GRAVELS	COURSE	20-63
	MEDIUM	6-20
	FINE	2.36-6
SANDS	COURSE	0.6-2.36
	MEDIUM	0.2-0.6
	FINE	0.075-0.2
SILTS	COURSE	0.02-0.075
	MEDIUM	0.006-0.02
	FINE	0.002-0.006
CLAYS	COLLOIDAL	<0.002

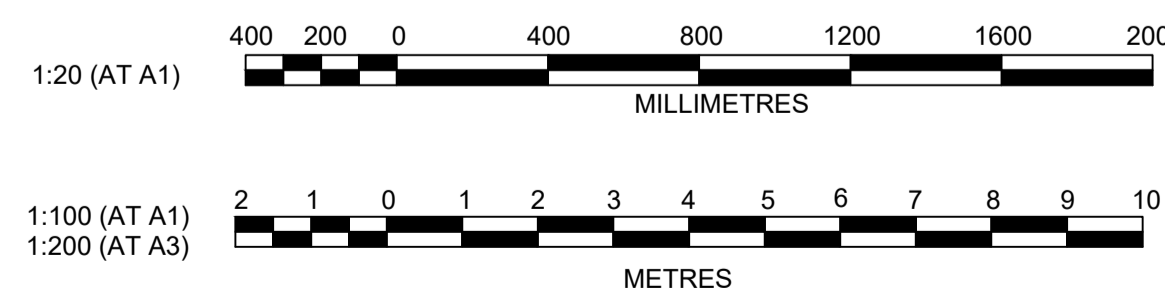
EC dS/m		
TOLERANCE	RATING	dS/m
Sensitive	Very Low	<0.95
Moderately Sensitive	Low	0.95-1.9
Moderately Tolerant	Medium	1.9-4.5
Tolerant	High	4.5-7.7
Very Tolerant	Very High	7.7-12.2
Too Saline	Extreme	>12.2

Preferred Mix Percentage of Mix	
Fine Gravel	<3%
Course Sand	7-10%
Medium Sand	40-60%
Fine Sand	10-30%
Very Fine Sand	5-30%
Clay and Silt	<3%
Organic Matter	<5%

IN REFERENCE TO ABOVE MIX TABLE, THE FOLLOWING PERFORMANCE PARAMETERS SHALL BE APPLIED.

- HYDRAULIC CONDUCTIVITY >=80mm/HR
- DETERMINED BY THE McINTYRE AND JAKOBSEN TEST METHOD (1993) AND CARRIED OUT BY AN INDEPENDENT NATA REGISTERED SOIL LABORATORY &/OR THE PREDICTED AND ACTUAL VALUES USING USGA OR ASTM F1815-06 STANDARD TESTING PROCEDURES
- ELECTRICAL CONDUCTIVITY <1.2dS/m
- PHOSPHORUS CONCENTRATION <20mg/kg FOR P SENSITIVE PLANTS (FOR VERY P SENSITIVE PLANTS USED: P<5mg/kg)
- NITROGEN DRAWDOWN >0.5
- CIRCUMNEUTRAL pH
- SANDY LOAM TO LOAMY SAND TEXTURE
- GYPSUM APPLIED AT 2kg/cu.m
- BULK DENSITY TO BE BETWEEN 1.1 g/cm<sup>3</sup> & 1.8 g/cm<sup>3</sup>
- FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 25mm DIAMETER
- FREE OF BRUSH OR SEED FROM WEEDS

PLACEMENT:  
THE MEDIA SHALL BE PLACED IN 300mm LIFTS AND LOOSELY COMPACTED.



Plotted: 28 October, 2016 11:50:28 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA224.dwg

NO.	DESCRIPTION	BY	CHKD	DATE		
A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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CADDENS HILL STAGES 2 - 4

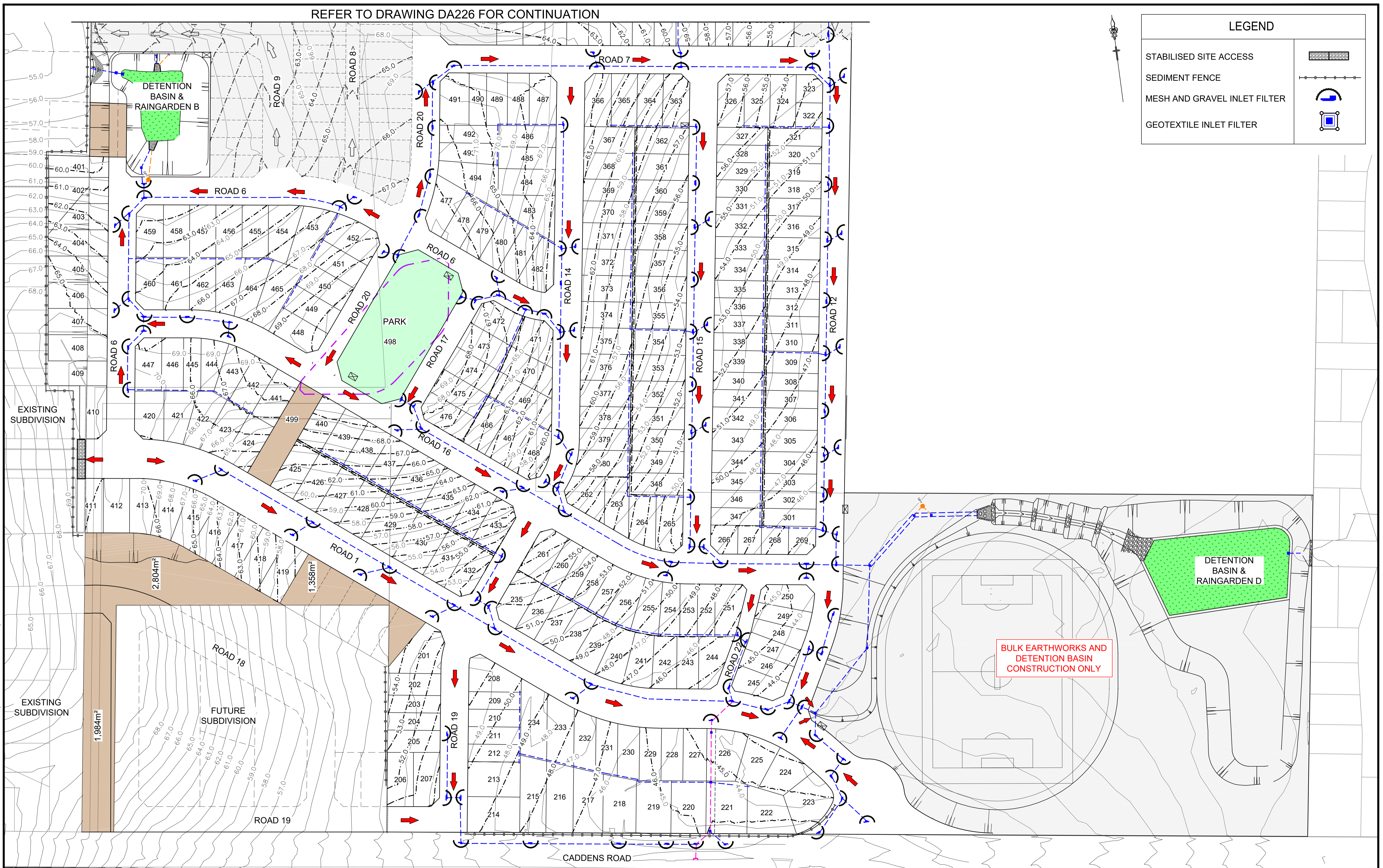
PLAN No: 110358/DA224 **A**  
 FILE No: 110358DA224  
 SHEET SIZE: A1 ORIGINAL

BASIN D - SECTIONS & RAINGARDEN DETAILS

REFER TO DRAWING DA226 FOR CONTINUATION

LEGEND

STABILISED SITE ACCESS	
SEDIMENT FENCE	
MESH AND GRAVEL INLET FILTER	
GEOTEXTILE INLET FILTER	



Plotted: 28 October, 2016 11:51:05 AM. File Name: J:\110358 - O'Connell Lane, Caddens\03 - Stage 2\CD\DA\110358DA225.dwg

A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	JT	AM	MS	28/10/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: M.G.A  
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 ORIGIN:

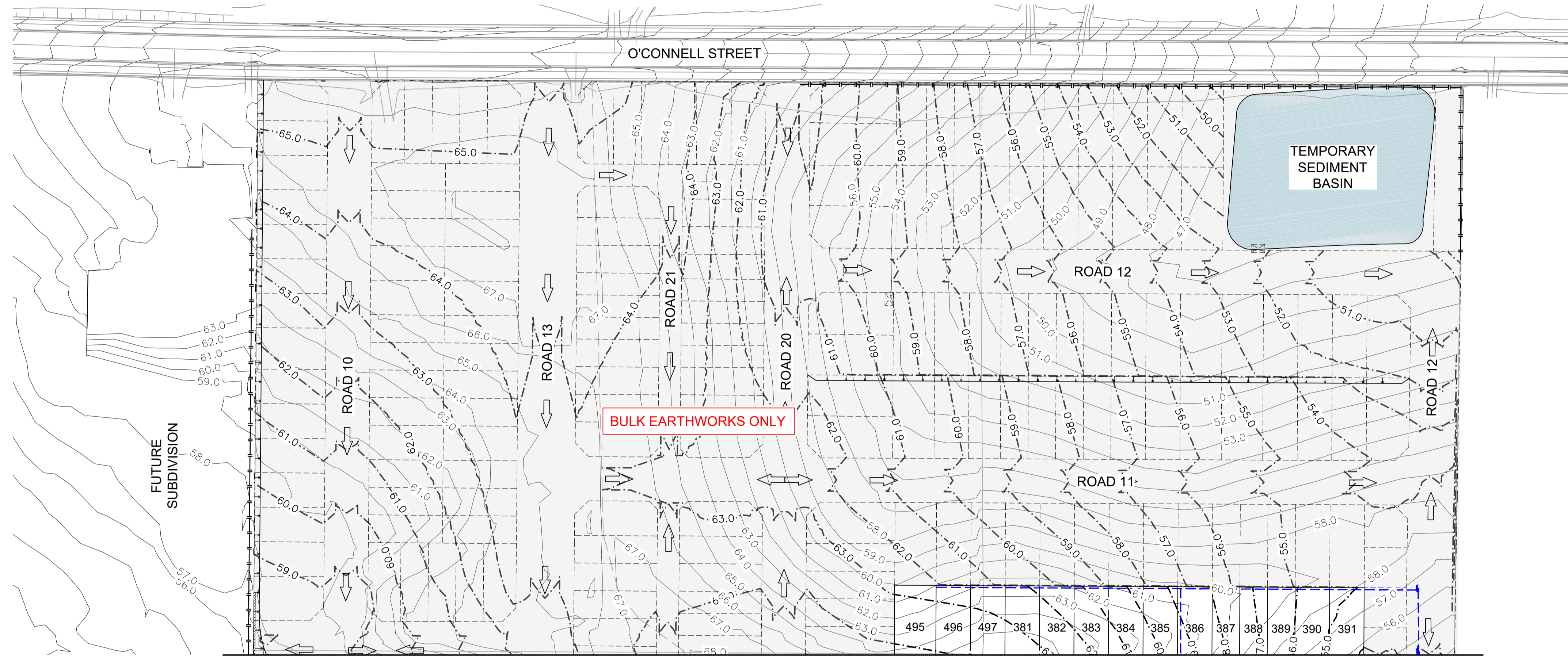
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**CADDENS HILL**  
STAGES 2 - 4

SOIL & WATER MANAGEMENT PLAN - SHEET 1

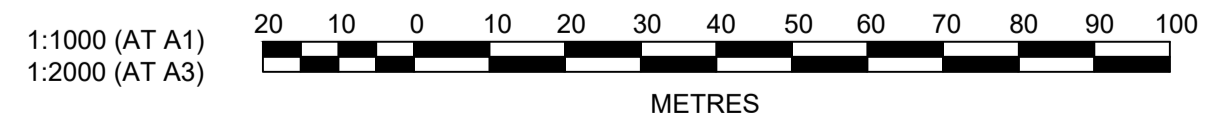
PLAN No: <b>110358/DA225</b>	<b>A</b>
FILE No: 110358DA225	
SHEET SIZE: A1 ORIGINAL	

LEGEND	
STABILISED SITE ACCESS	
SEDIMENT FENCE	
MESH AND GRAVEL INLET FILTER	
GEOTEXTILE INLET FILTER	



REFER TO DRAWING DA225 FOR CONTINUATION

Plotted: 28 October, 2016 11:51:39 AM. File Name: J:\110358 - O'Connell Lane - Caddens\03 - Stage 2\CD\DA\110358DA226.dwg



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**CADDENS HILL**  
STAGES 2 - 4

SOIL & WATER MANAGEMENT PLAN - SHEET 2

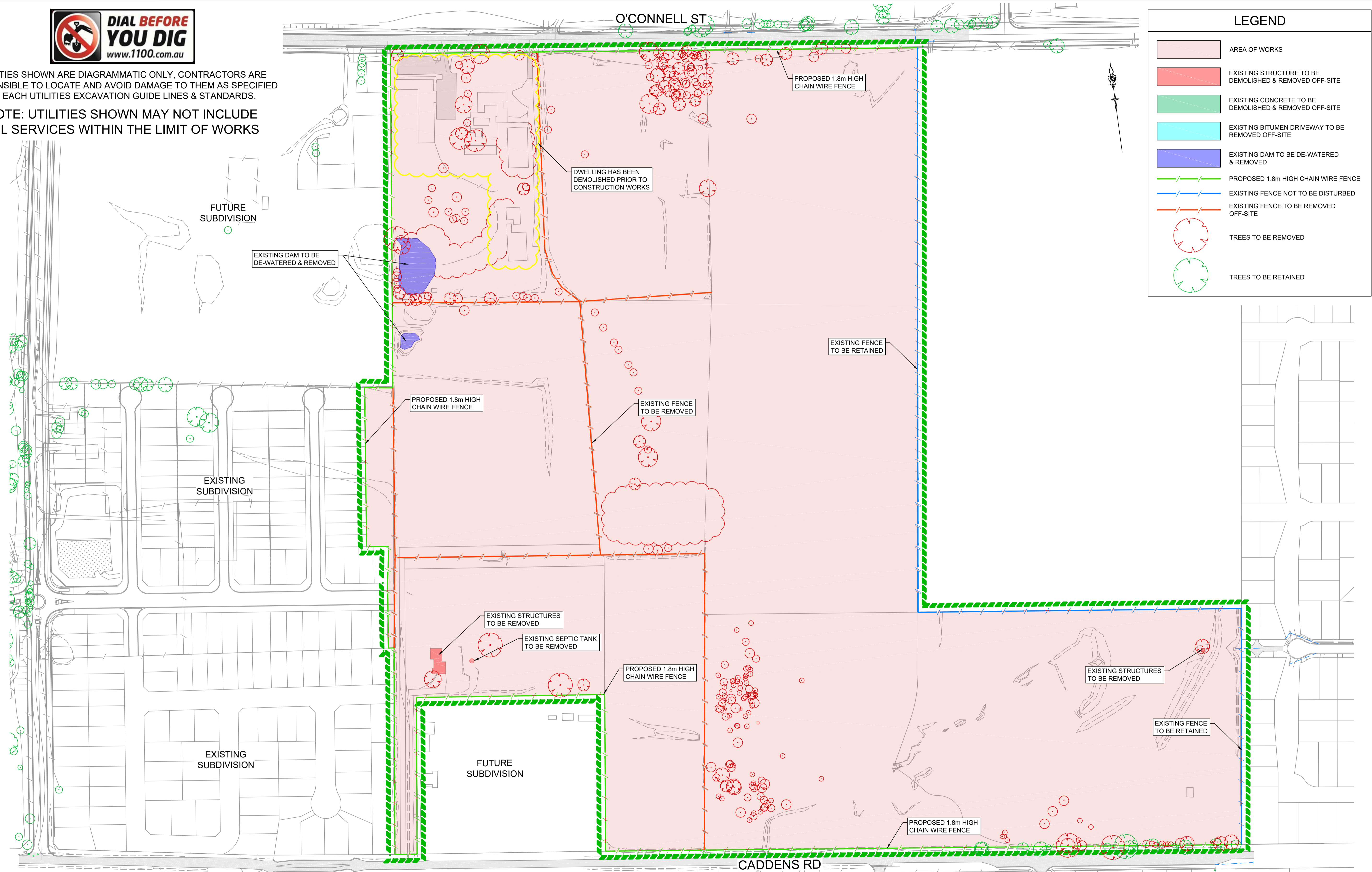
PLAN No:	110358/DA226	A
FILE No:	110358DA226	
SHEET SIZE:	A1 ORIGINAL	

AMENDMENT	DES	DRN	CKD	APR	DATE	
A	JT	RT	JT	AM	MS	28/10/16



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS.

NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS



LEGEND	
	AREA OF WORKS
	EXISTING STRUCTURE TO BE DEMOLISHED & REMOVED OFF-SITE
	EXISTING CONCRETE TO BE DEMOLISHED & REMOVED OFF-SITE
	EXISTING BITUMEN DRIVEWAY TO BE REMOVED OFF-SITE
	EXISTING DAM TO BE DE-WATERED & REMOVED
	PROPOSED 1.8m HIGH CHAIN WIRE FENCE
	EXISTING FENCE NOT TO BE DISTURBED
	EXISTING FENCE TO BE REMOVED OFF-SITE
	TREES TO BE REMOVED
	TREES TO BE RETAINED



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**CADDENS HILL STAGES 2 - 4**

TREE MANAGEMENT & DEMOLITION PLAN

PLAN No: <b>110358/DA227</b>	<b>A</b>
FILE No: 110358DA227	
SHEET SIZE: A1 ORIGINAL	

NO.	REVISION	DATE	BY	CHECKED
A	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	28/10/16	MS	AM
			JT	RT
			DES	DRN

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