



UWS CAMPBELLTOWN
STAGE 5 DEVELOPMENT APPLICATION
PROPOSED SUBDIVISION OF LOT 7 IN DP 253700 & LOT 1099 IN FUTURE DP

PROPOSED LOT, ROAD AND DRAINAGE WORKS



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LOCALITY SKETCH

Prepared By:

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
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Survey By:
SMEC URBAN
LEVEL 1, 14 DUMARESQ STREET,
CAMPBELLTOWN, NSW, 2560

ORIGIN OF LEVELS: PM57155 RL 78.212
GILCHRIST DRIVE
DATE: 26/11/13 REF: 77588.02.XR01

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NOT FOR CONSTRUCTION

PLAN No.
9435/40DA50 **A**
FILE No. 943540DA50

1. THIS PLAN HAS BEEN PREPARED BY JWP AND NOT A REGISTERED SURVEYOR.
2. FINAL BOUNDARIES AND EASEMENTS ARE SUBJECT TO FUTURE PLAN OF SUBDIVISION TO BE PREPARED BY A REGISTERED SURVEYOR.



AZIMUTH:
MGA

DATUM:
AHD

ORIGIN:



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UWS CAMPBELLTOWN
STAGE 5
OVERALL PLAN OF SUBDIVISION

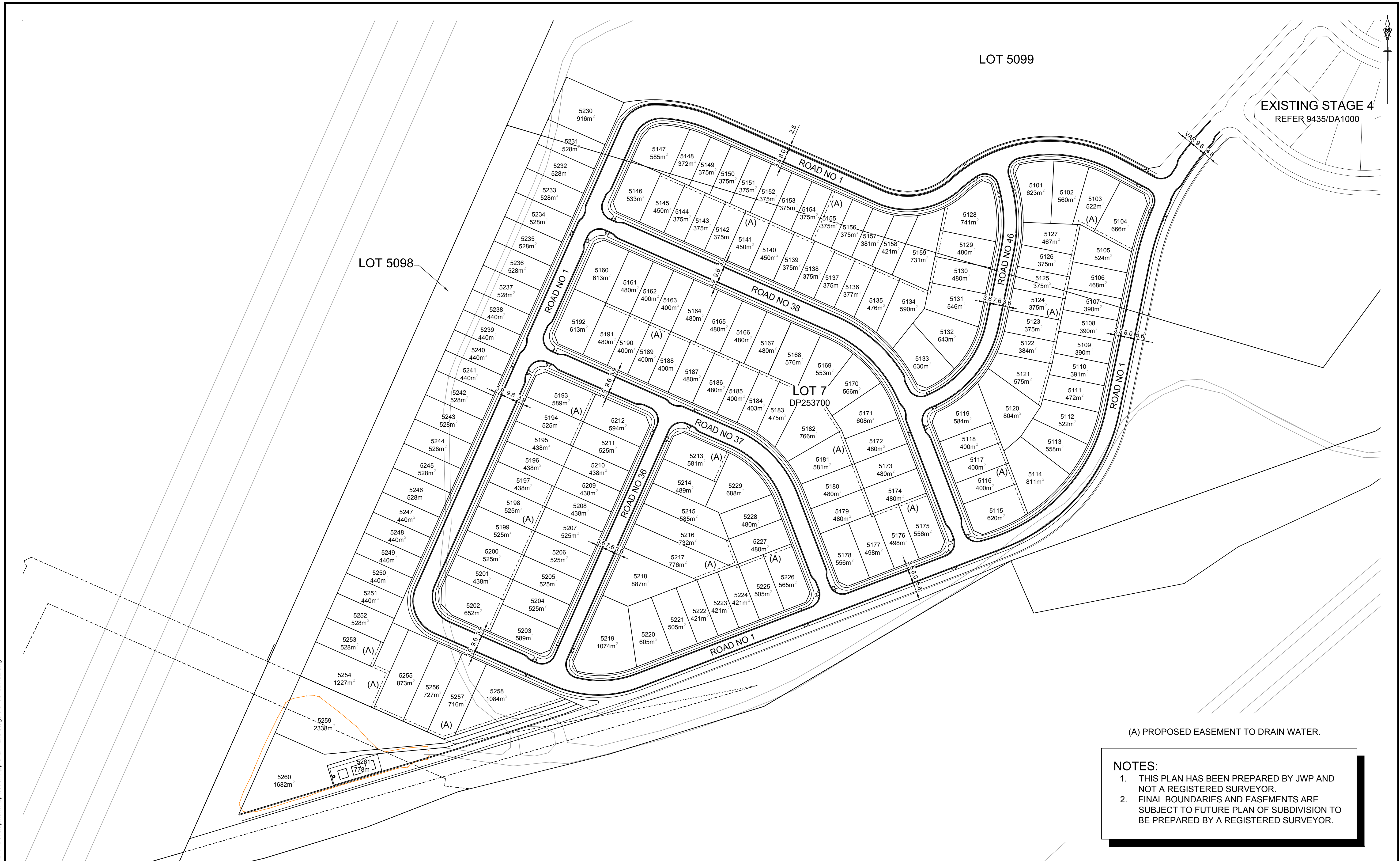
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9435/40DA51	A
FILE No: 943540DA51	
SHEET SIZE: A1 ORIGINAL	

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Plotted: March 10, 2016 File Name: J:\9435\DA - Development Application Approval Plans\Stage 5\943540DA52.dwg

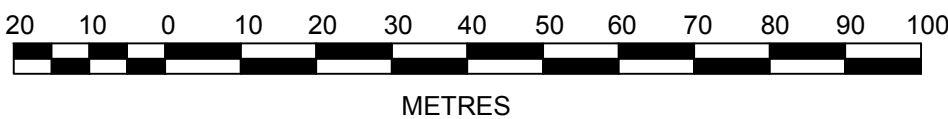


(A) PROPOSED EASEMENT TO DRAIN WATER.

NOTES:

1. THIS PLAN HAS BEEN PREPARED BY JWP AND NOT A REGISTERED SURVEYOR.
2. FINAL BOUNDARIES AND EASEMENTS ARE SUBJECT TO FUTURE PLAN OF SUBDIVISION TO BE PREPARED BY A REGISTERED SURVEYOR.

1:1000 (AT A1)



AZIMUTH: MGA
DATUM: AHD
ORIGIN:



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UWS CAMPBELLTOWN
STAGE 5
STAGE 5 PLAN OF SUBDIVISION

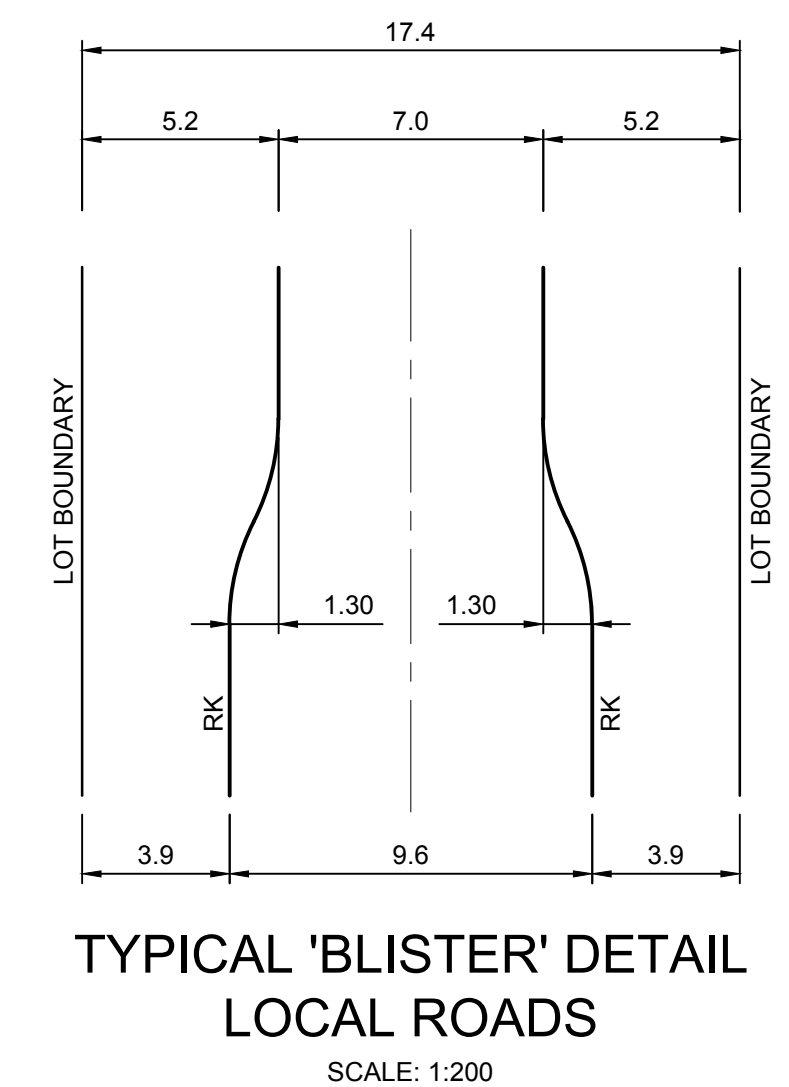
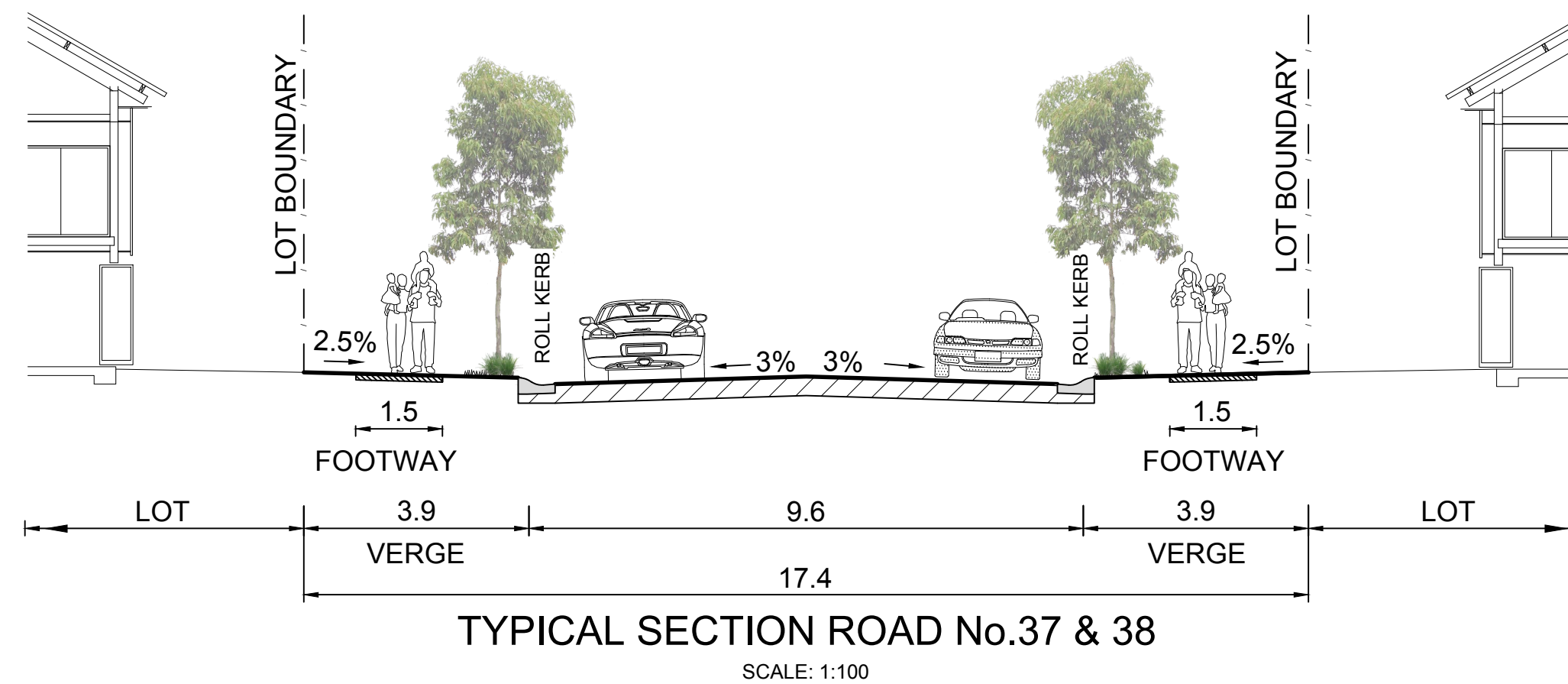
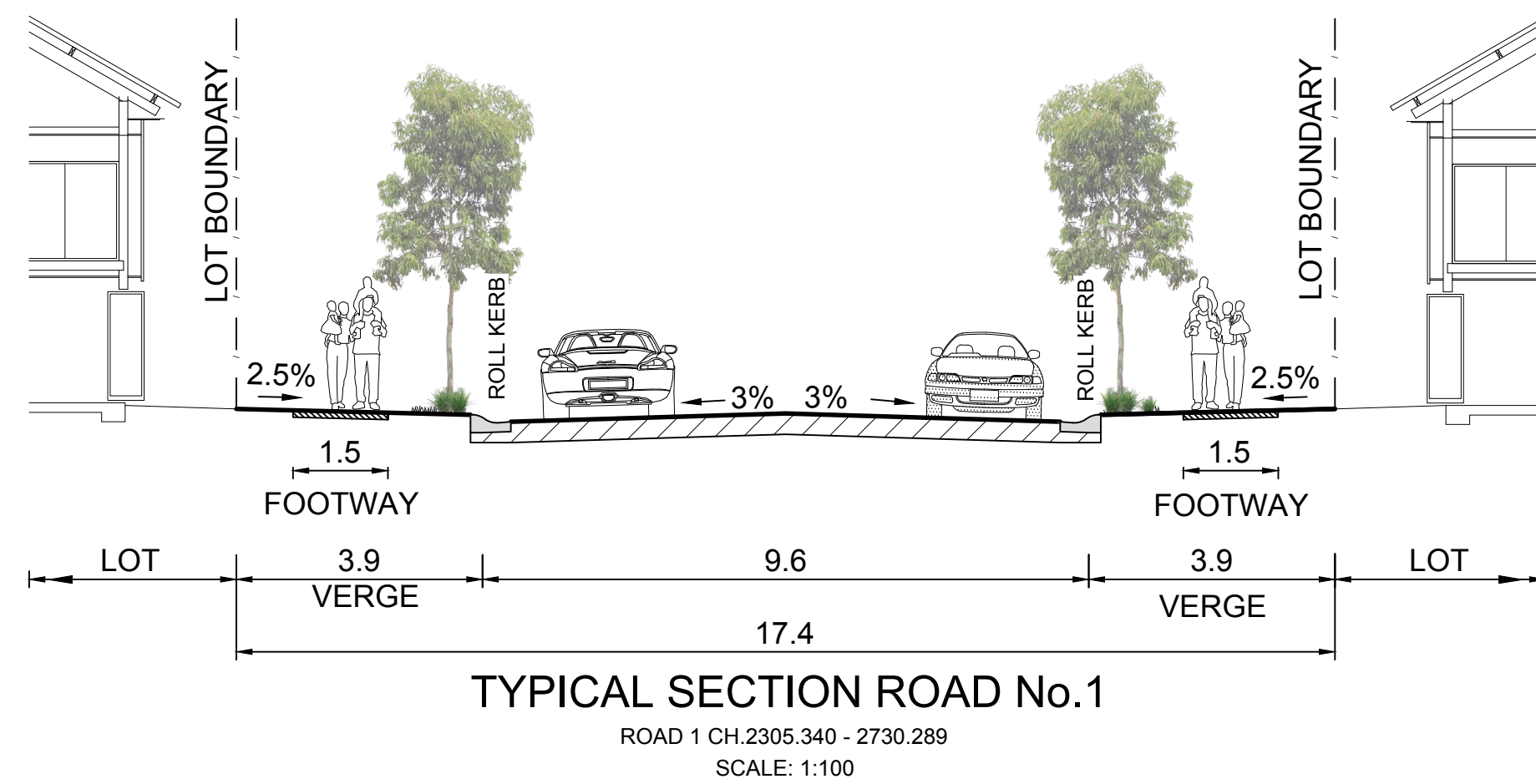
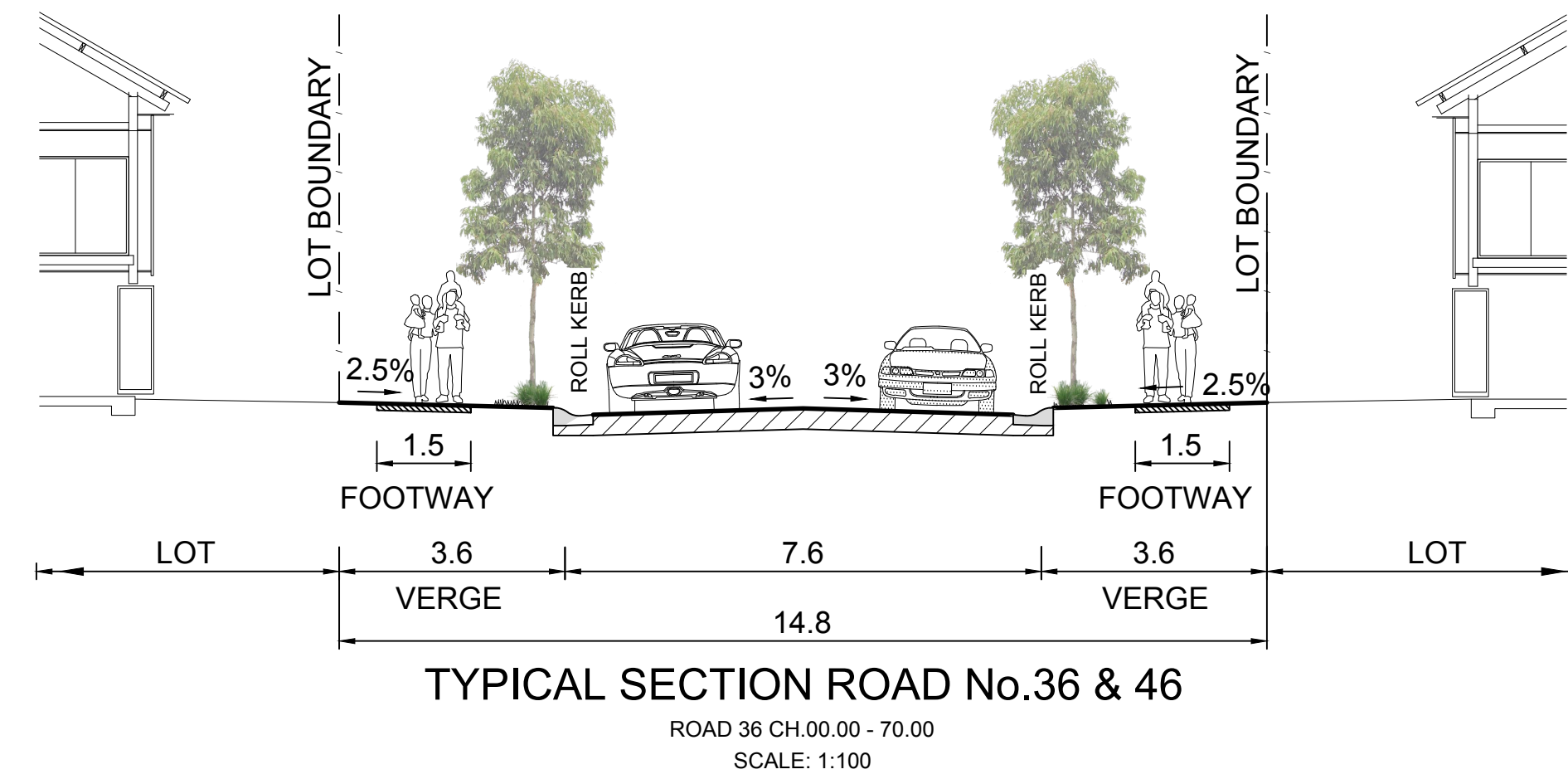
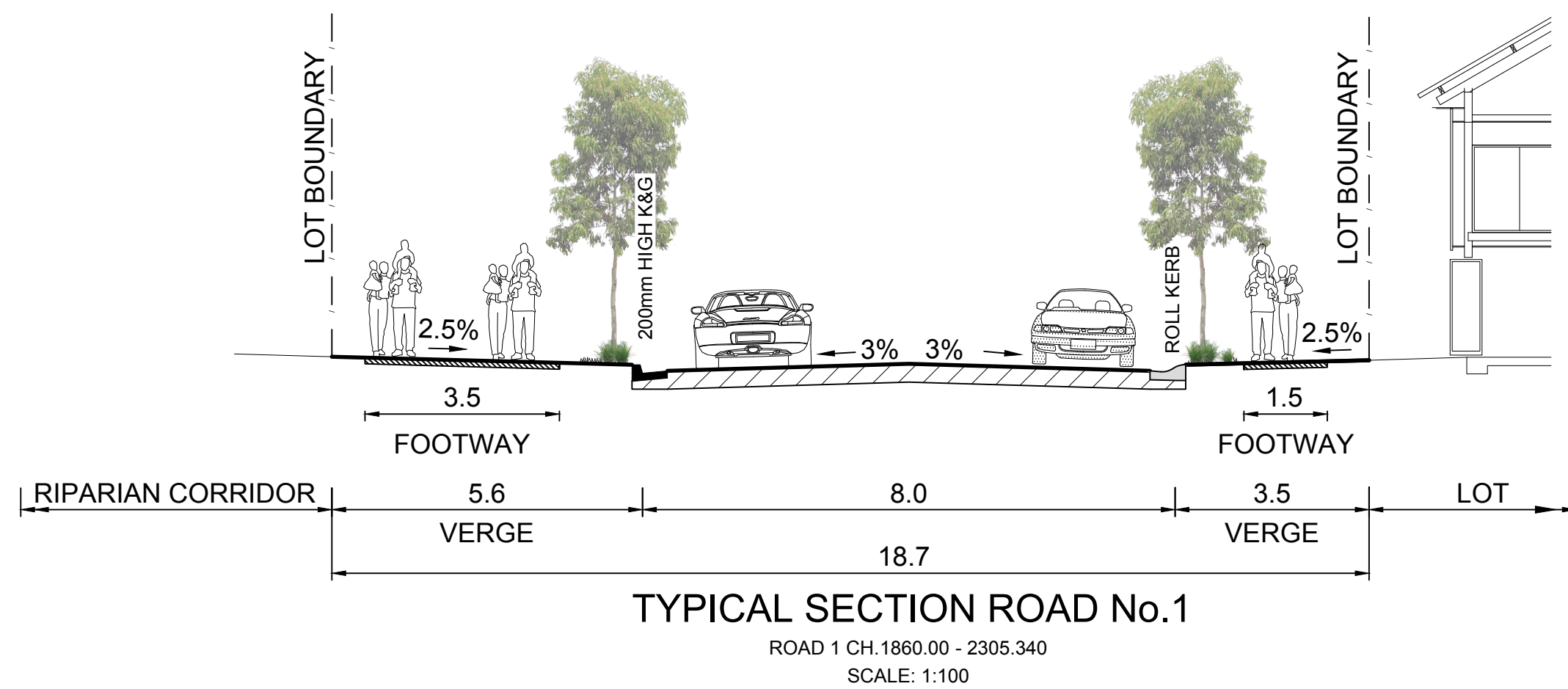
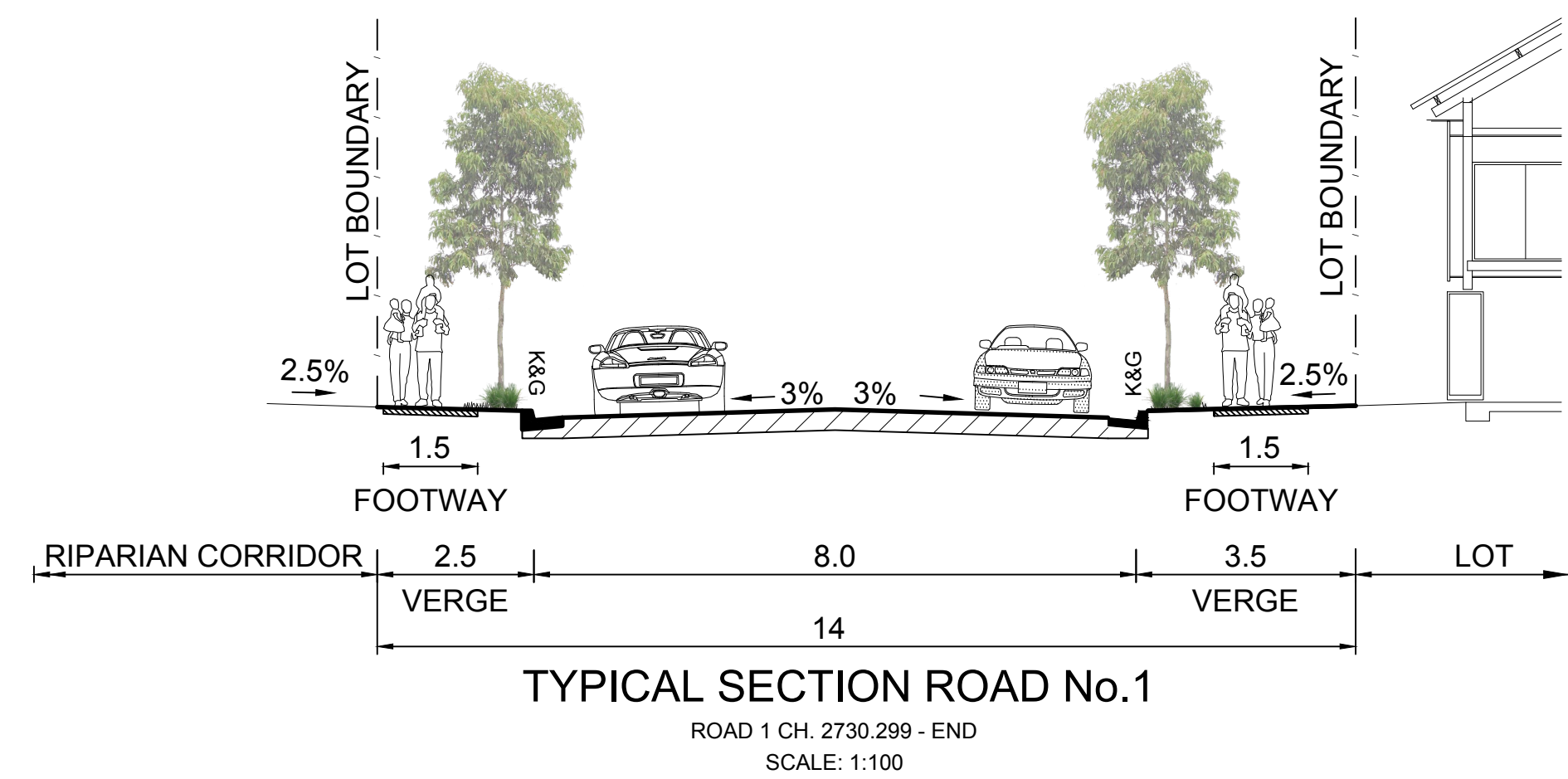
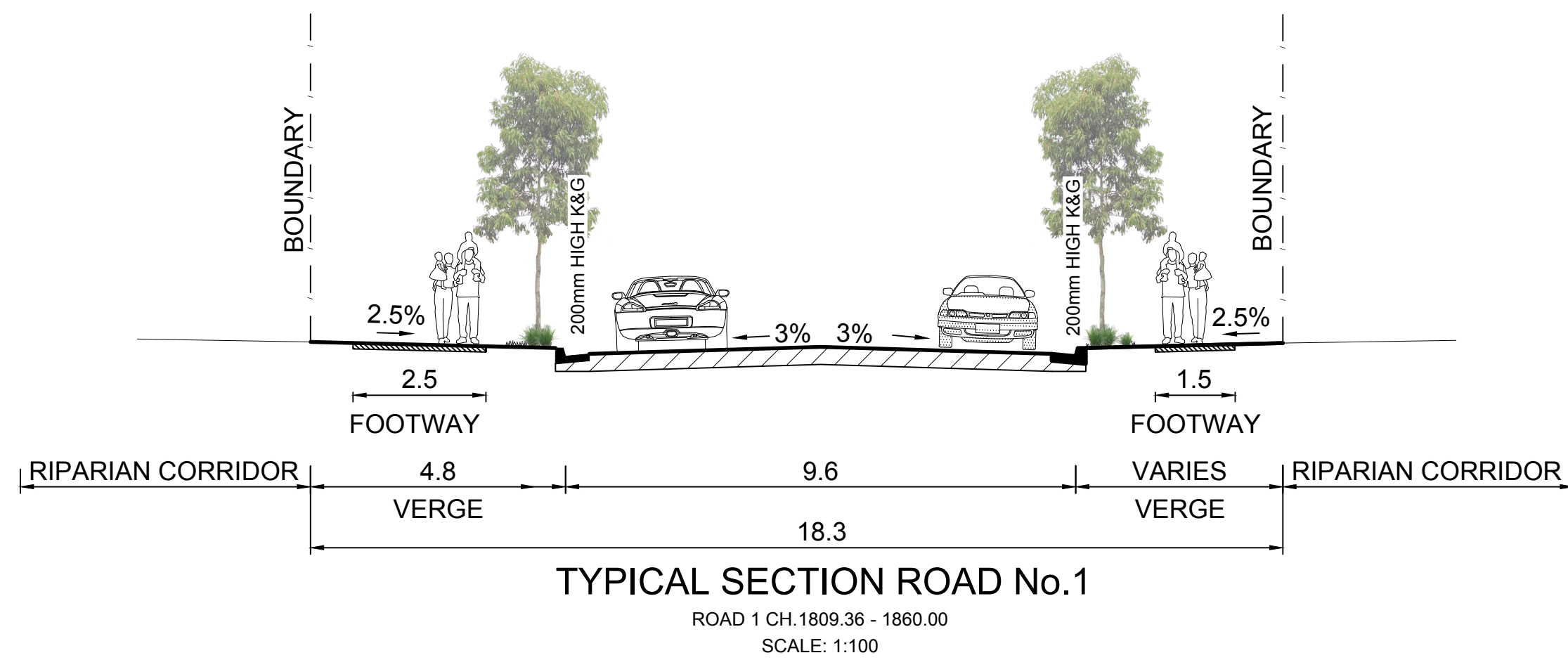
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9435/40DA52 A
FILE No: 943540DA52
SHEET SIZE: A1 ORIGINAL

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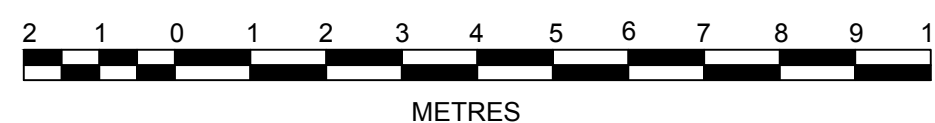
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A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS	10/03/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

Plotted: March 10, 2016 File Name: J:\943540\DA - Development Application Approval Plans\Stage 5\943540DA54.dwg

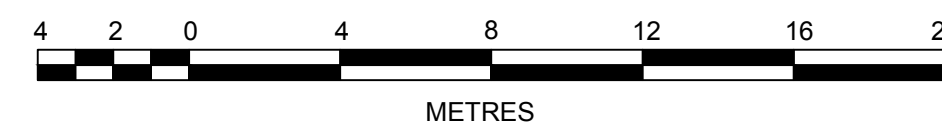


1:100 (AT A1)



METRES

1:200 (AT A1)



METRES

A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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AZIMUTH: MGA
DATUM: AHD
ORIGIN:

CLIENT: **UrbanGrowth NSW**
WESTERN SYDNEY UNIVERSITY

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UWS CAMPBELLTOWN
STAGE 5
TYPICAL ROAD CROSS SECTIONS
& KERB BLISTER DETAILS

PLAN No: **9435/40DA54** **A**
FILE No: 943540DA54
SHEET SIZE: A1 ORIGINAL

Plotted: March 10, 2016 File Name: J:\9435\DA - Development Application Approval Plans\Stage 5\943540DA55.dwg

DATUM 93.0

DESIGN LINE GRADING	2150.00	98.494	CONTINUES ABOVE
EXISTING SURFACE	2160.00	97.856	99.194
CHAINAGE	2175.00	100.020	100.244
	2175.47	100.090	100.277
	2190.00	101.596	101.189
	2205.00	103.086	101.908
	2205.47	103.139	101.927
	2220.00	104.083	102.403
	2235.00	104.088	102.672
	2235.47	104.076	102.677
	2250.00	103.448	102.822
	2265.00	102.579	102.972
	2280.00	102.128	103.122
	2285.00	101.792	103.272
	2305.34	101.607	103.376
	2310.00	101.569	103.422
	2325.00	101.516	103.572
	2340.00	101.910	103.722
	2352.10	102.336	103.843
	2355.00	102.399	103.872
	2370.00	102.638	104.022
	2385.00	102.848	104.172
	2389.66	102.879	104.219
	2400.00	103.068	104.394
	2415.00	102.953	104.901
	2419.66	103.033	105.119
	2421.23	103.112	105.199
	2430.00	103.230	105.708
	2445.00	103.977	106.814
	2449.66	104.553	107.219
	2452.73	104.844	107.495
	2460.00	105.915	108.150
	2475.00	108.355	109.500
	2490.00	110.608	110.850
	2495.00	111.636	111.300
	2500.00	112.746	111.732

LONGITUDINAL SECTION Road No 1

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

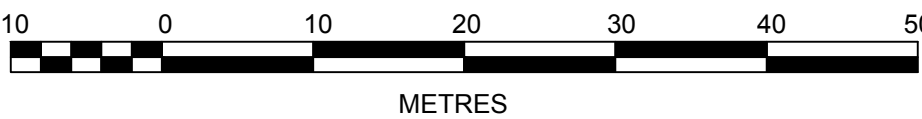
DATUM 83.0

DESIGN LINE GRADING	1800.00	91.232	91.796
EXISTING SURFACE	1809.36	90.572	91.210
CHAINAGE	1815.00	90.458	91.021
	1820.41	89.919	90.811
	1830.00	87.827	90.529
	1840.79	88.475	90.348
	1845.00	88.514	90.306
	1860.00	87.585	90.156
	1875.00	87.877	90.006
	1890.00	90.331	89.856
	1900.27	90.275	89.753
	1905.00	90.213	89.706
	1920.00	89.905	89.556
	1935.00	89.605	89.406
	1950.00	89.334	89.256
	1965.00	89.038	89.106
	1969.52	88.948	89.061
	1979.52	88.775	89.011
	1990.00	88.756	89.011
	1985.10	88.552	89.026
	1995.00	88.616	89.130
	2009.52	88.524	89.461
	2010.00	88.528	89.475
	2025.00	88.670	90.045
	2040.00	89.038	90.840
	2049.52	89.187	91.461
	2055.00	89.306	91.844
	2070.00	89.770	92.884
	2085.00	90.833	93.944
	2085.69	90.880	93.993
	2100.00	92.045	94.994
	2115.00	93.229	96.044
	2130.00	94.753	97.094
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	2150.00	96.820	98.494

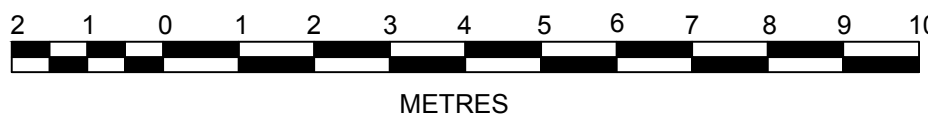
LONGITUDINAL SECTION Road No 1

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1)



V 1:100 (AT A1)



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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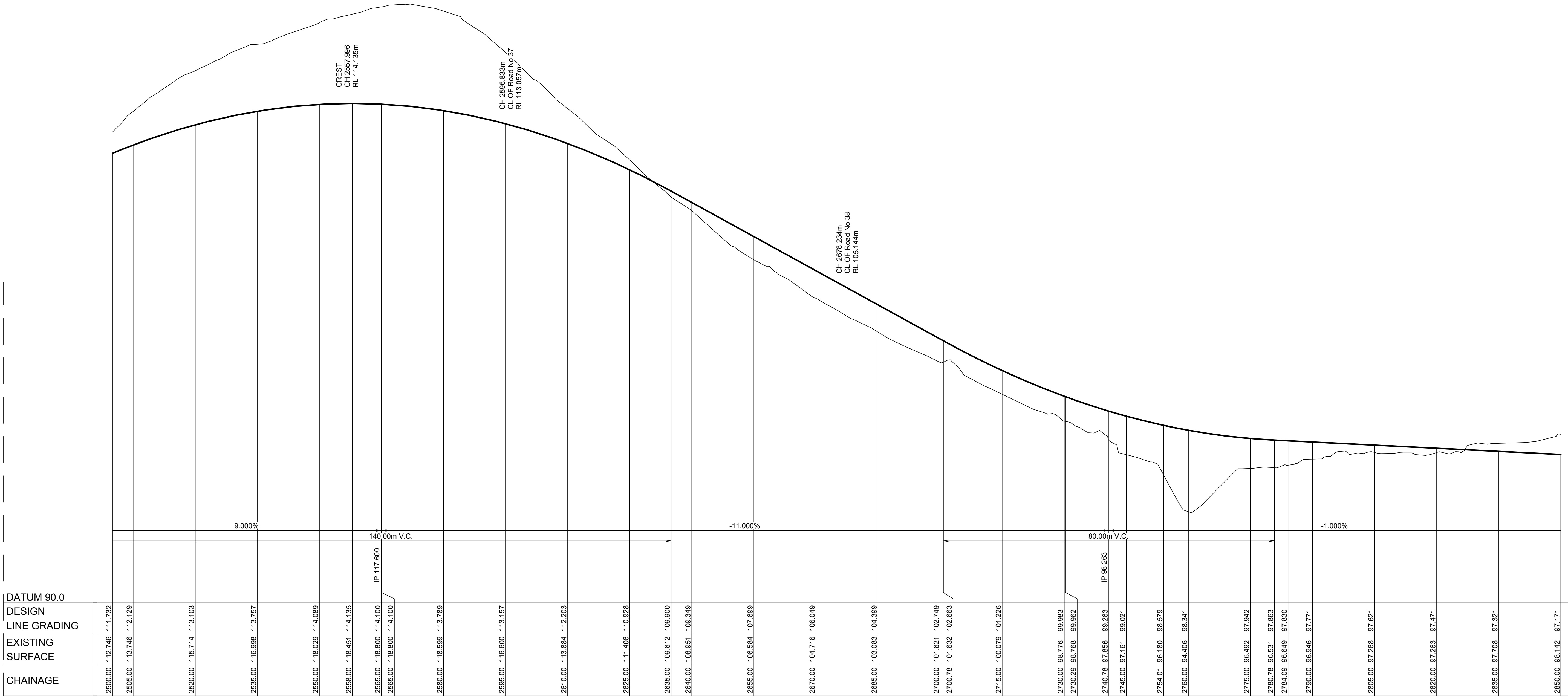
UWS CAMPBELLTOWN
STAGE 5
ROAD LONGITUDINAL SECTIONS
SHEET 1

PLAN No:	9435/40DA55	A
FILE No:	943540DA55	
SHEET SIZE:	A1 ORIGINAL	

REFER TO DRAWING 943540/DA56 FOR CONTINUATION

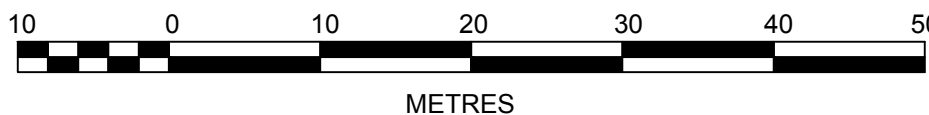
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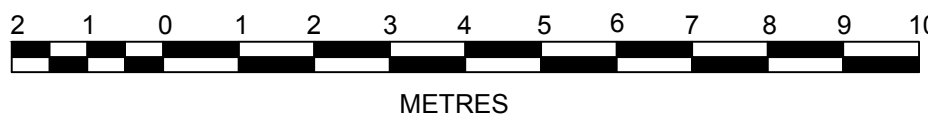


LONGITUDINAL SECTION Road No 1
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1)



V 1:100 (AT A1)



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS	10/03/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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DATUM: AHD
ORIGIN:



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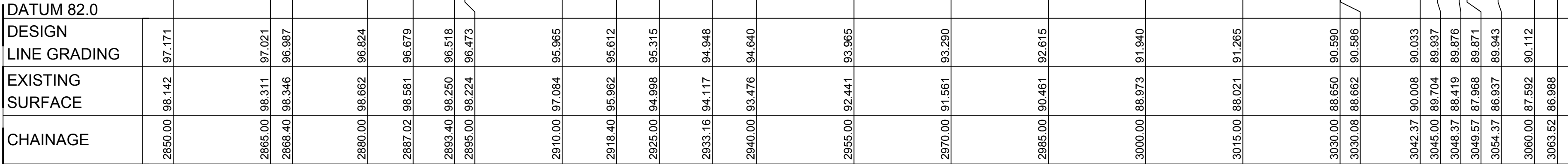
UWS CAMPBELLTOWN
STAGE 5
ROAD LONGITUDINAL SECTIONS
SHEET 2

PLAN No: 9435/40DA56 **A**
FILE No: 943540DA56
SHEET SIZE: A1 ORIGINAL

REFER TO DRAWING 943540/DA57 FOR CONTINUATION

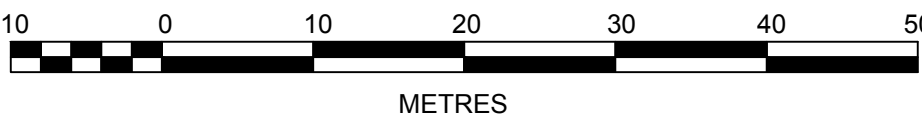
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Plotted: March 10, 2016 File Name: J:\943540\DA - Development Application Approval Plans\Stage 5\943540DA57.dwg

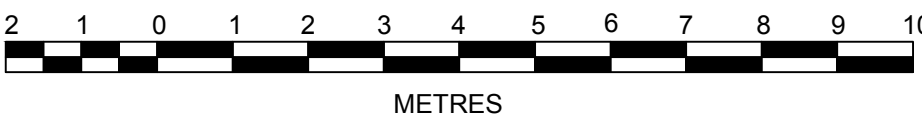


LONGITUDINAL SECTION Road No 1
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

H 1:500 (AT A1)



V 1:100 (AT A1)



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS	10/03/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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DATUM: AHD
ORIGIN:



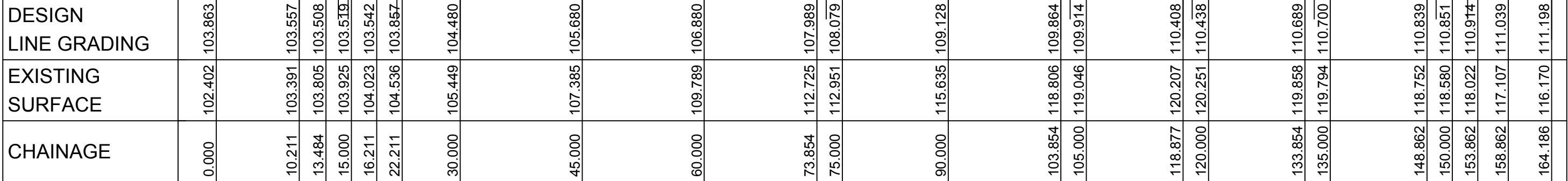
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UWS CAMPBELLTOWN
STAGE 5
ROAD LONGITUDINAL SECTIONS
SHEET 3

PLAN No:	9435/40DA57	A
FILE No:	943540DA57	
SHEET SIZE:	A1 ORIGINAL	

DATUM 98.0



LONGITUDINAL SECTION Road No 36
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

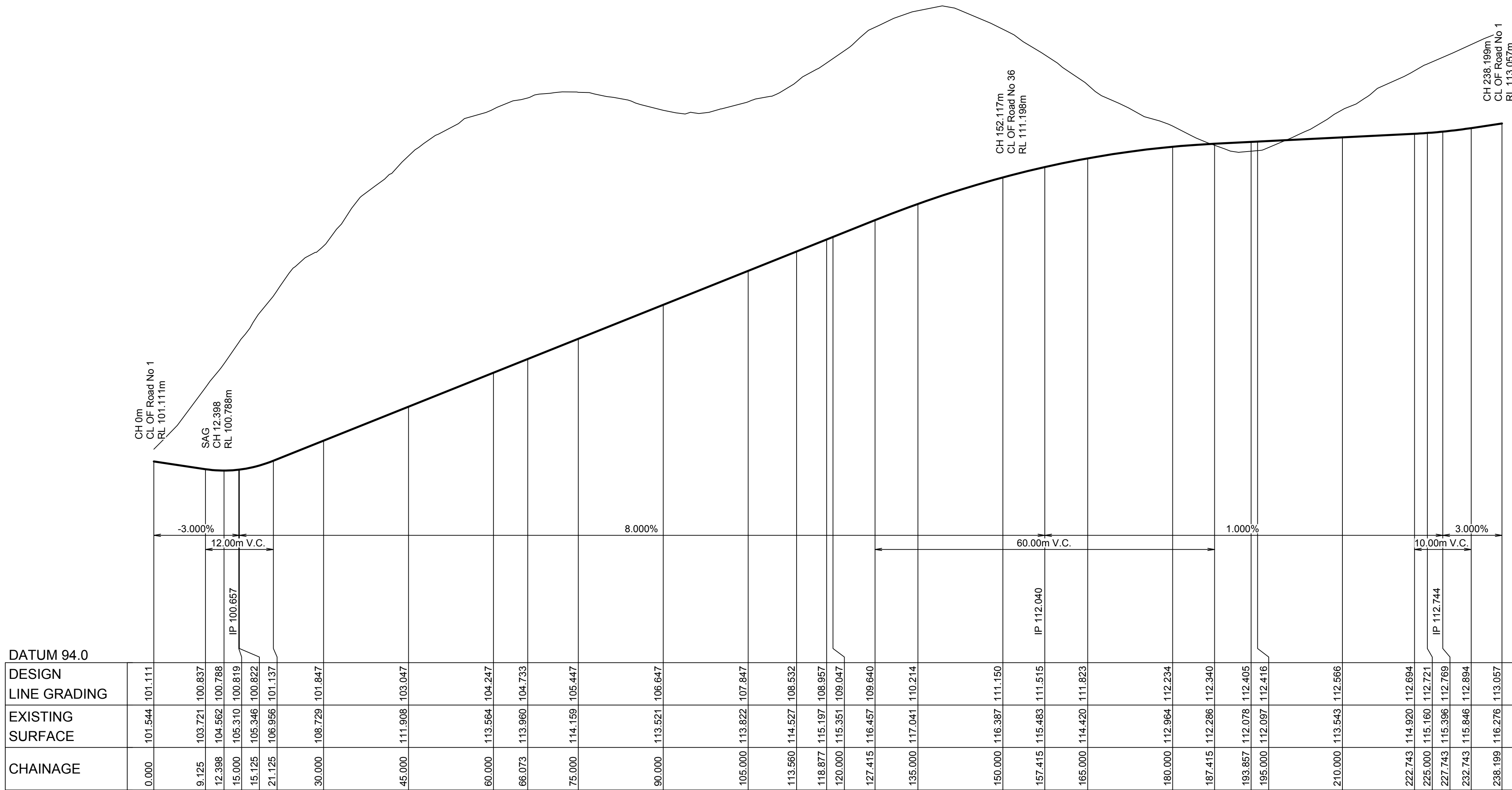
SAG
CH 3049.574
RL 89.871m

CH 0m
CL OF Road No 1
RL 103.875m

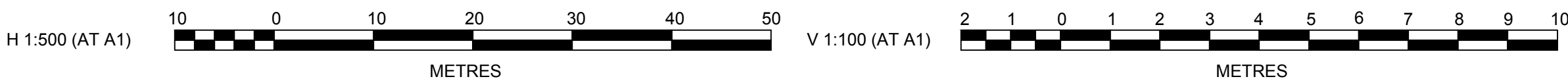
SAG
CH 13.484
RL 103.508m

CH 164.186m
CL OF Road No 37
RL 111.261m

Plotted: March 10, 2016 File Name: J:\9435\DDA - Development Application Approval Plans\Stage 5\943540DA58.dwg



LONGITUDINAL SECTION Road No 37
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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DATUM: AHD
ORIGIN:

CLIENT:

WESTERN SYDNEY UNIVERSITY

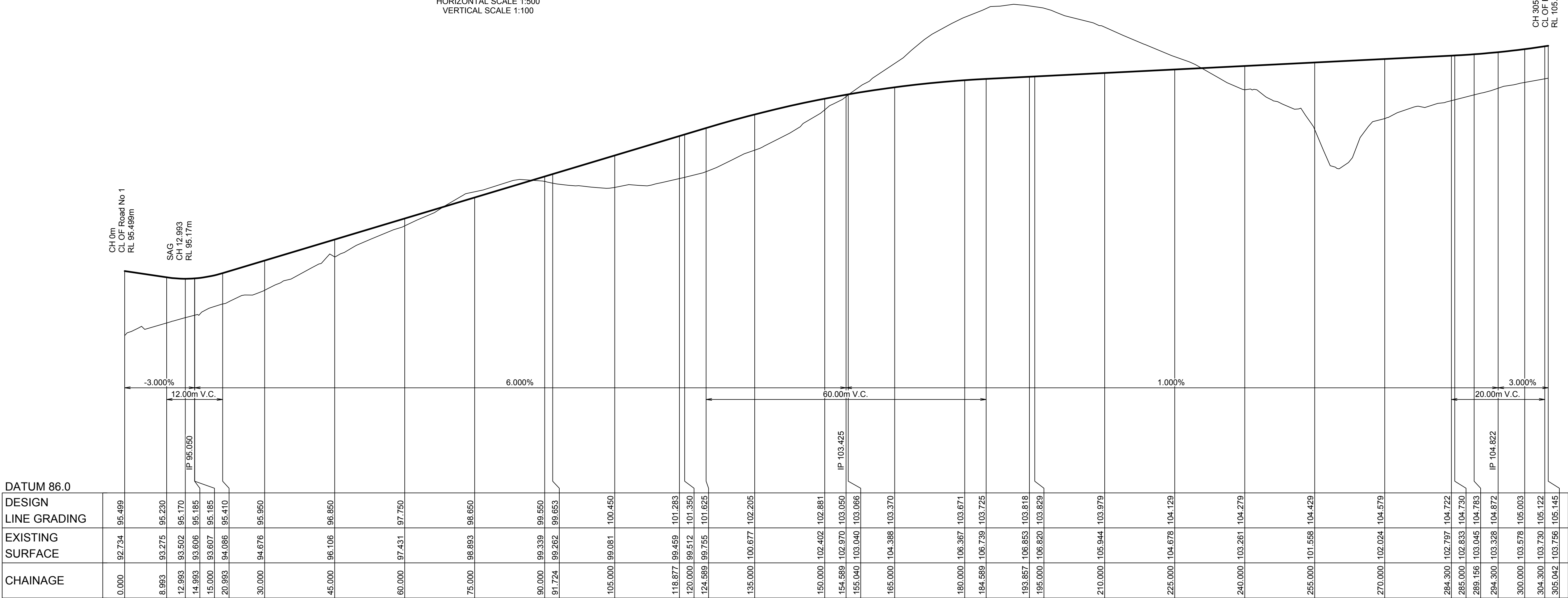
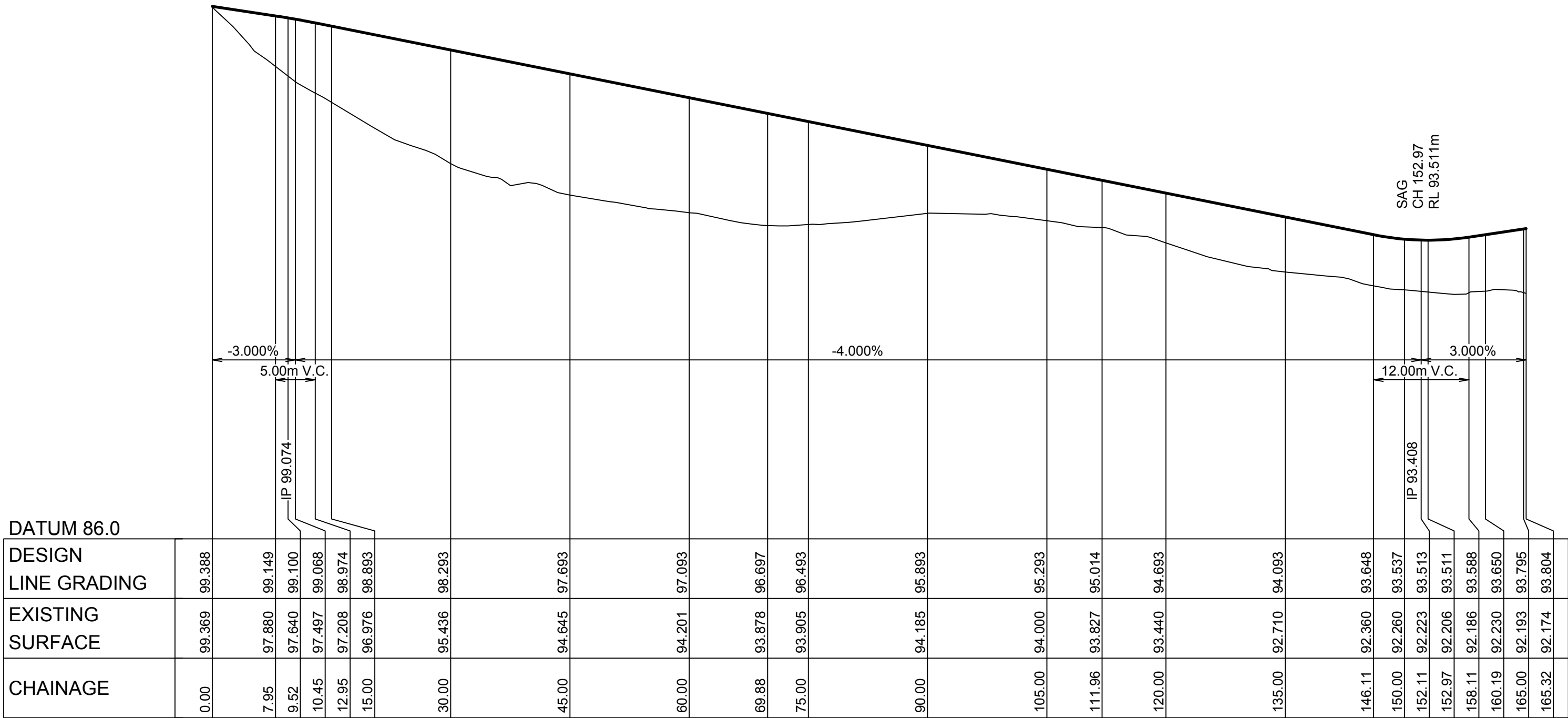
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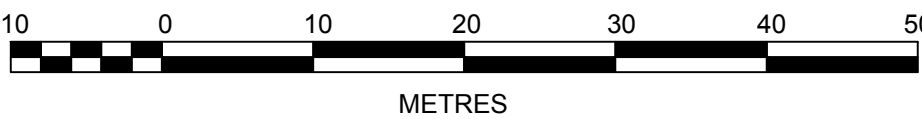
UWS CAMPBELLTOWN
STAGE 5
ROAD LONGITUDINAL SECTIONS
SHEET 4

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FILE No:	943540DA58	
SHEET SIZE:	A1 ORIGINAL	

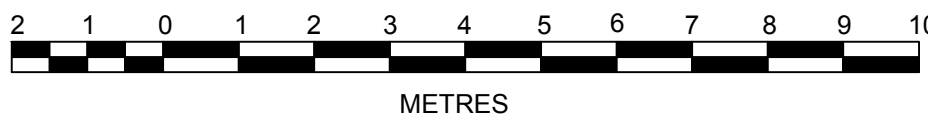
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V 1:100 (AT A1)



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	AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: MGA
DATUM: AHD
ORIGIN:

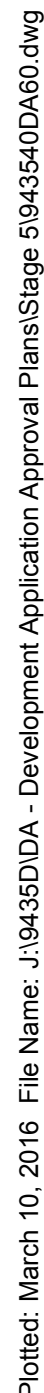


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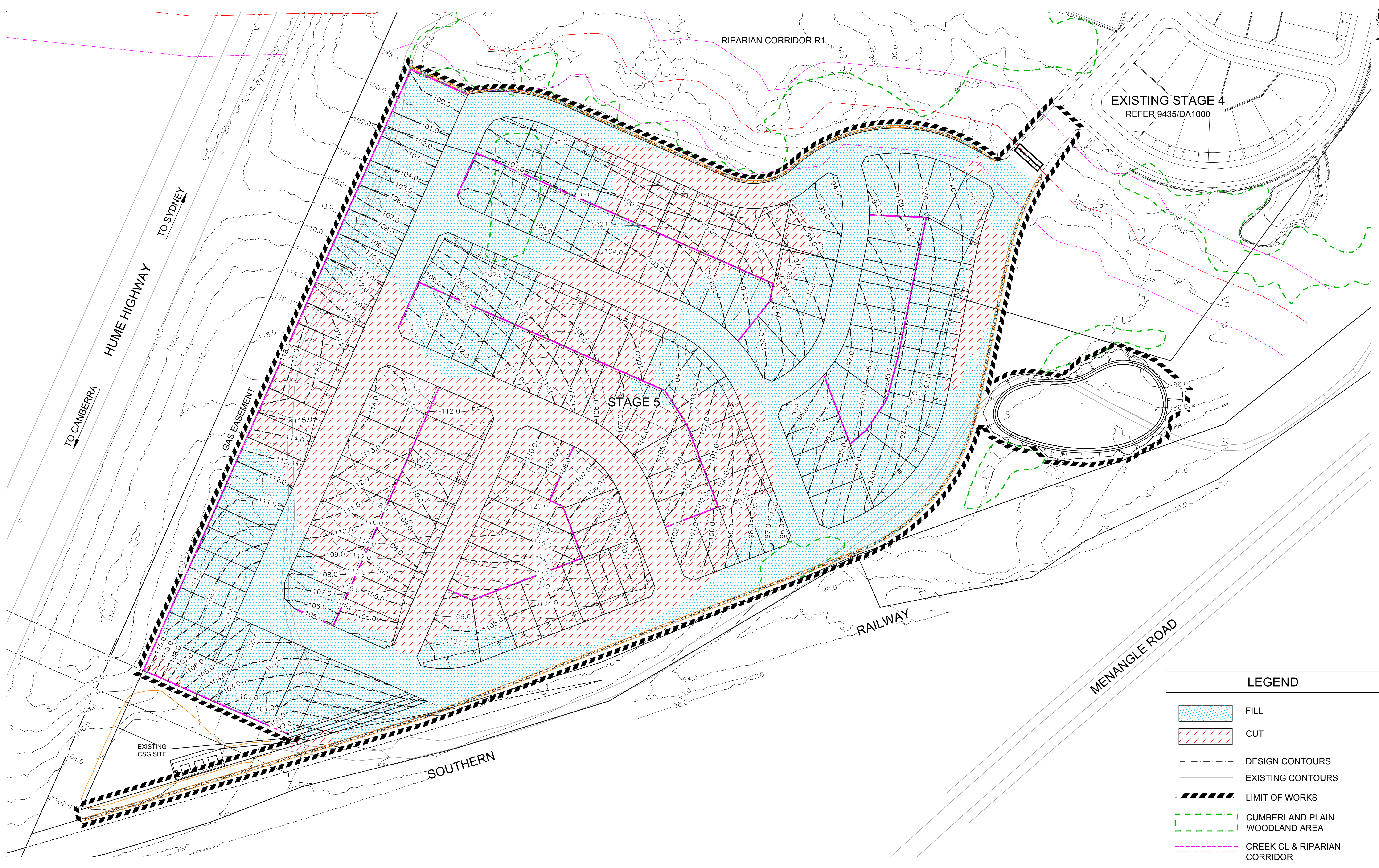
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UWS CAMPBELLTOWN
STAGE 5
ROAD LONGITUDINAL SECTIONS
SHEET 5

PLAN No:	9435/40DA59	A
FILE No:	943540DA59	
SHEET SIZE:	A1 ORIGINAL	

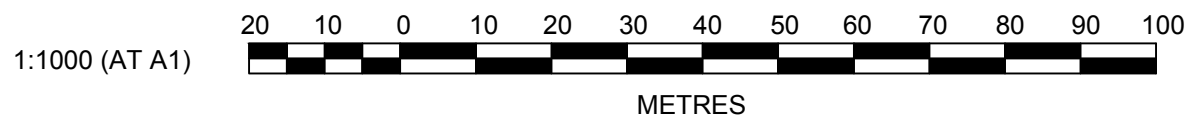


Plotted: March 10, 2016 File Name: J:\9435\DA - Development Application Approval Plans\Stage 5\943540DA61.dwg



LEGEND

- FILL
- CUT
- DESIGN CONTOURS
- EXISTING CONTOURS
- LIMIT OF WORKS
- CUMBERLAND PLAIN WOODLAND AREA
- CREEK CL & RIPARIAN CORRIDOR



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS	10/03/16			
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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UWS CAMPBELLTOWN
STAGE 5
CUT/FILL & SITE SECTIONS PLAN

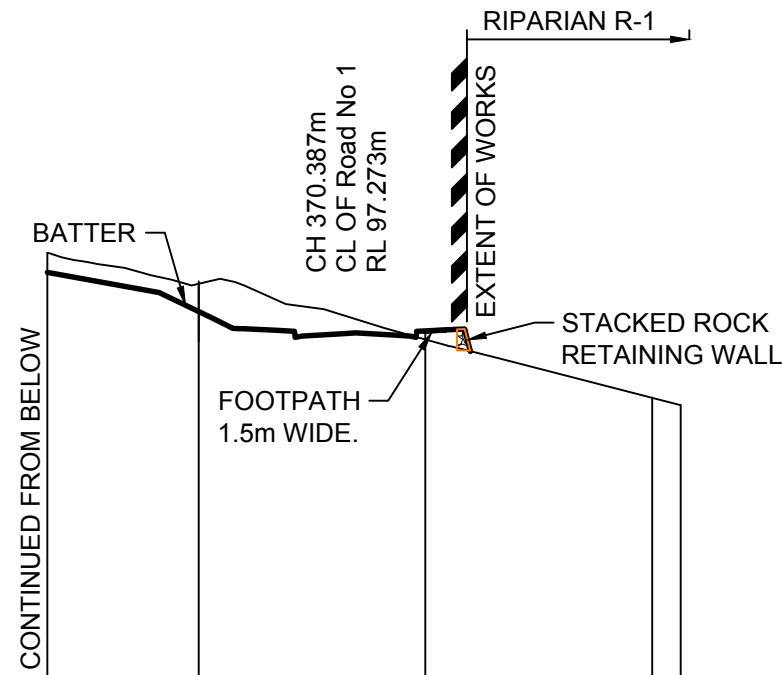
PLAN No:	9435/40DA61	A
FILE No:	943540DA61	
SHEET SIZE:	A1 ORIGINAL	



UWS CAMPBELLTOWN
STAGE 5
SITE SECTION A

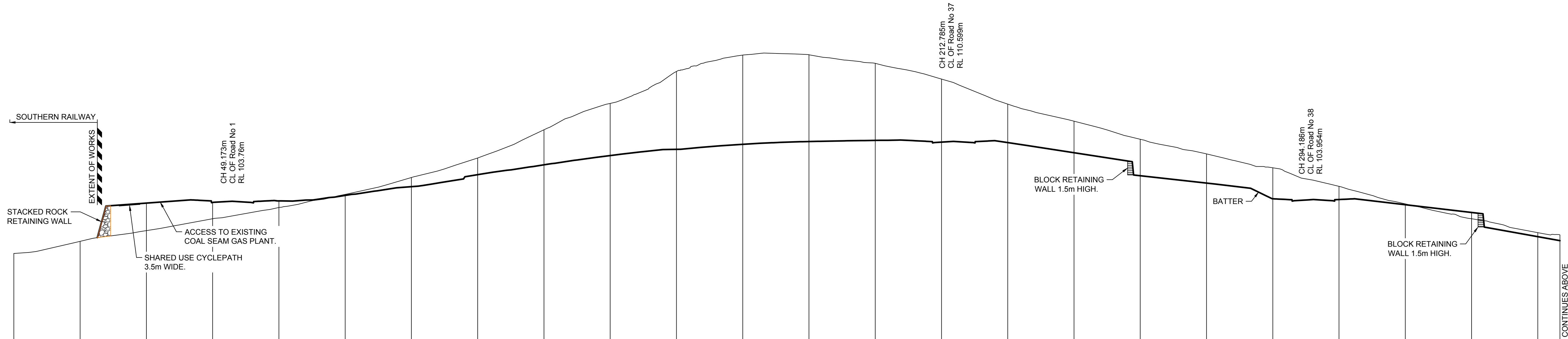
PLAN No:	9435/40DA62	A
FILE No:	943540DA62	
SHEET SIZE:	A1 ORIGINAL	

Plotted: March 10, 2016 File Name: J:\9435\DA - Development Application Approval Plans\Stage 5\943540DA64.dwg



DATUM 79.0				
DESIGN LINE GRADING	350.000	360.000	375.000	390.000
EXISTING SURFACE	99.286	97.987	97.348	95.131
CHAINAGE	99.940	98.909	97.062	94.887

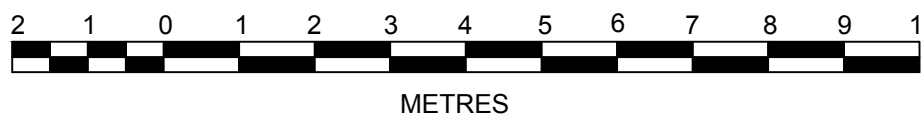
SECTION C
SCALE H 1:500
V 1:250
DA53



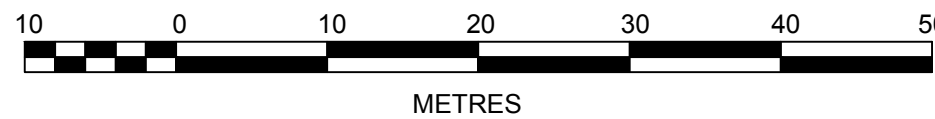
DATUM 82.0																								
DESIGN LINE GRADING	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000	300.000	315.000	330.000	345.000
EXISTING SURFACE	97.838	99.213	100.424	101.770	103.040	104.525	106.430	108.640	111.833	114.821	118.438	120.283	120.324	119.357	117.577	114.742	112.807	110.758	109.104	107.537	105.437	103.356	101.763	99.940
CHAINAGE																								

SECTION C
SCALE H 1:500
V 1:250
DA53

V 1:100 (AT A1)



H 1:500 (AT A1)



A	ISSUE FOR DA APPROVAL	DP	TG	AM	MS	10/03/16
	AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: MGA
DATUM: AHD
ORIGIN:



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UWS CAMPBELLTOWN
STAGE 5
SITE SECTION C

PLAN No: 9435/40DA64 A

FILE No: 943540DA64

SHEET SIZE: A1 ORIGINAL

1. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY" AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SOIL & WATER MANAGEMENT PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
3. ALL LANDSCAPE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
7. ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.
8. MINIMISE DUST BY WATERING WHEN REQUIRED.

STOCKPILE NOTES:

1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
2. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.
3. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

SPECIAL NOTES:

1. LOCATION AND CONTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION " 4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
3. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
4. MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
5. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY MARK:-
 - a) THE TREES TO BE RETAINED.
 - b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
6. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
7. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

SEDIMENTATION CONTROL DEVICES:

1. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
2. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

Note: These "Detailed Calculation" spreadsheets relate only to high erosion hazard lands as identified in figure 4.6 or where the designer chooses to use the RUSLE to size sediment basins. The "Standard Calculation" spreadsheets should be used on low er

1. Site Data Sheet

Site Name:	Macaurthur Heights Stage 5				
Site Location:	UWS Campbelltown, NSW				
Precinct:					
Description of Site:	Urban subdivision				

Site area	Sub-catchments					Remarks
	5.1					
Total catchment area (ha)	11.89					
Disturbed catchment area (ha)	11.89					

Soil analysis (enter sediment type if known, or laboratory particle size data)							
Sediment Type (C, F or D) if known	D	D	D	D	D	D	From Appendix C
% sand (fraction 0.02 to 2.00 mm)							Soil texture should be assessed through mechanical dispersion only. Dispersing agents (e.g. Calgon) should not be used E.g. enter 10 for dispersion of 10% See Section 6.3.3.6) Auto-calculated Automatic calculation from above
% silt (fraction 0.002 to 0.02 mm)	50						
% clay (fraction finer than 0.002 mm)	50						
Dispersion percentage	100.0						
% of whole soil dispersible	75						
Soil Texture Group	D	D	D	D	D	D	

Rainfall data					
Design rainfall depth (day/s)	5				See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	75				See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	19.3				See Section 6.3.4 (h)
Rainfall R-factor (if known)					See Appendix B
IFD: 2-year, 6-hour storm (if known)	10.1				See IFD chart for the site

RUSLE Factors							
Rainfall erosivity (R-factor)	2250	2250	2250	2250	2250	2250	Auto-filled from above
Soil erodibility (K-factor)	0.038						
Slope length (m)	60						
Slope gradient (%)	8						
Length/gradient (LS-factor)	1.70						
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	1	1	RUSLE LS factor calculated for a high all/interill ratio.

2. Storm Flow Calculations

Peak flow is given by the Rational Formula

$$Q_y = 0.00278 \times C_{10} \times F_Y \times I_{y,tc} \times A$$

where:	Q_p	is peak flow rate (m^3/sec) of average recurrence interval (ARI) of "Y" years
	C_{t0}	is the runoff coefficient (dimensionless) for ARI of 10 years. Rural runoff coefficients are given in Volume 2, figure 5 of Pilgrim (1998), while urban runoff coefficients are given in Volume 1, Book VIII, figure 1.13 of Pilgrim (1998) and construction r
	F_y	is a frequency factor for "Y" years. Rural values are given in Volume 1, Book IV, Table 1.1 of Pilgrim (1998) while urban coefficients are given in Volume 1, Book VIII, Table 1.6 of Pilgrim (1998)
	A	is the catchment area in hectares (ha)
	$I_{y,tc}$	is the average rainfall intensity (mm/hr) for an ARI of "Y" years and a design duration of "tc" (minutes or hours)

Time of concentration (t_c) = $0.76 \times (A/100)^{0.38}$ hrs (Volume 1, Book IV of Pilgrim, 1998)

Note: For urban catchments the time of concentration should be determined by more precise calculations or reduced by a factor of 50 per cent.

To automatically halve the calculated time of concentration, place an "x" in this box:

Peak flow calculations, 1

[illegible]

Peak flow calculations, 2

ARI (yrs)	Frequency factor (F _r)	Peak flows						Comment
		5_1 (m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	
1 yr,t	0.8	1.499						
5 yr,t	0.95	2.911						
10 yr,t	1	3.451						
20 yr,t	1.05	4.123						
50 yr,t	1.15	5.269						
100 yr,t	1.2	6.104						

4. Volume of Sediment Basins, *Type D* and *Type F* Soils

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for *Type F* and *Type D* soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's s

$$V = 10 \times C_v \times A \times R_{x\text{-day}, y\text{-}\%ile} \text{ (m}^3\text{)}$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period

$R_{x\text{-day}, y\text{-}\%ile}$ = the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section

Place an "X" in the box below to show the sediment storage zone design parameters used here:

	50% of settling zone capacity,
X	2 months soil loss calculated by RUSLE

Total Basin Volume

Site	C _v	R ₀ , day.y/ha	Total catchment area (ha)	Setting zone volume (m ³)	Sediment storage volume (m ³)	Total basin volume (m ³)
5.1	0.50	19.3	1189	1147.385	294	1441.385

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					DATE

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AZIMUTH:
MGA

DATUM:
AHD

ORIGIN:

CLIENT:

 **UrbanGrowth
NSW**

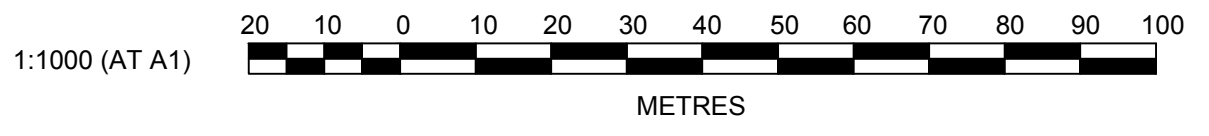
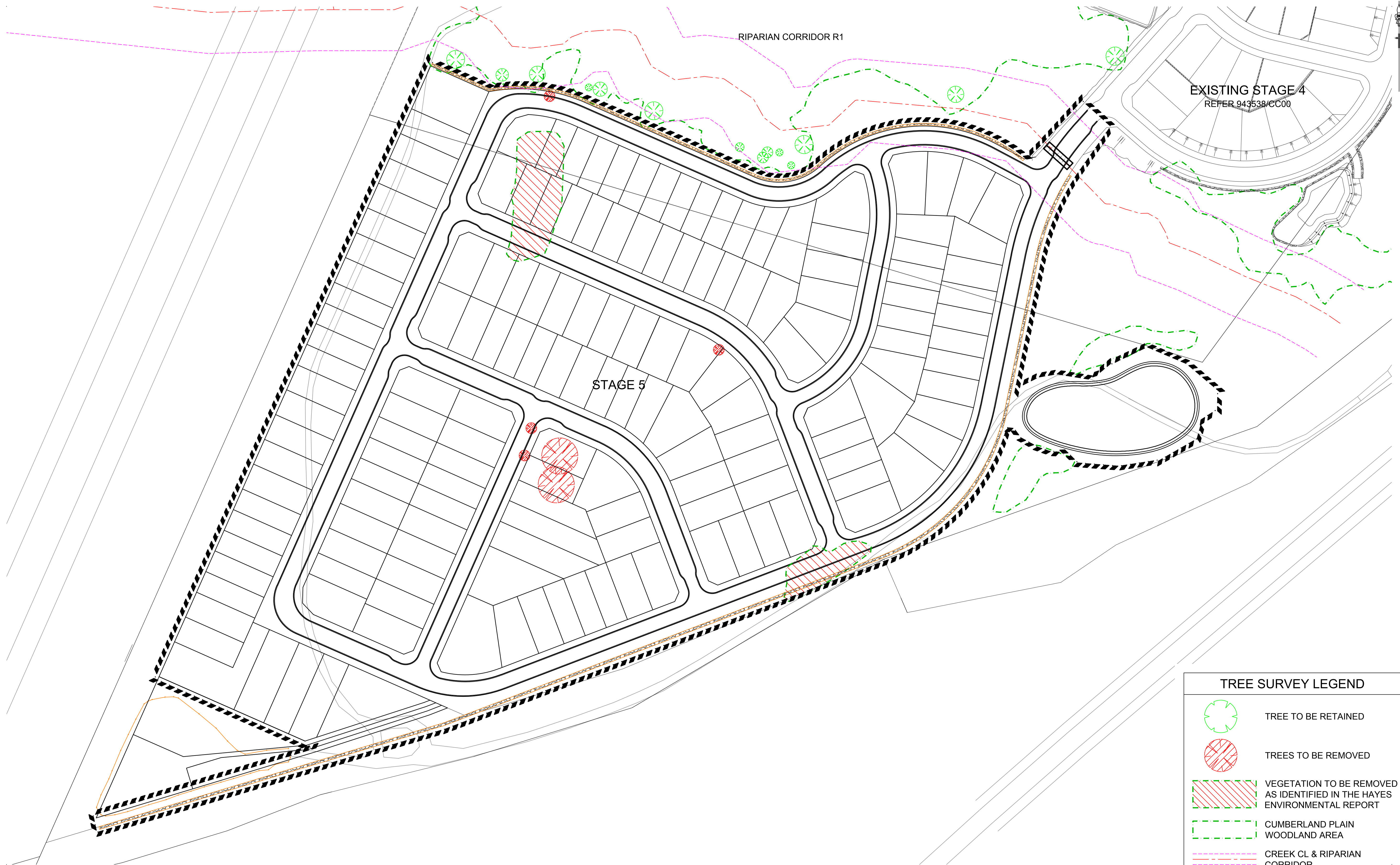
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UWS CAMPBELLTOWN STAGE 5 SOIL AND WATER MANAGEMENT NOTES	PLAN No: 9435/40DA66 A
	FILE No: 943540DA66
	SHEET SIZE: A1 ORIGINAL

Plotted: March 10, 2016 File Name: J:\943540DA - Development Application Approval Plans\Stage 5\943540DA67.dwg



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UWS CAMPBELLTOWN
STAGE 5
TREE MANAGEMENT PLAN

PLAN No: 9435/40DA67 **A**
FILE No: 943540DA67
SHEET SIZE: A1 ORIGINAL