

46 O'CONNELL STREET
CADDENS

PLAN OF SUBDIVISION OF
LOT 3 DP 1103503

DA ENGINEERING
DRAWINGS REVISION B

GROUP DEVELOPMENT SERVICES PTY. LTD.
PROJECT MANAGERS - SURVEYORS - PLANNERS - ENGINEERS

2/1 CENTRAL AVENUE, THORNLEIGH NSW 2120

PO BOX 498, PENNANT HILLS NSW 1715

Ph. (02) 9980-1000 Fax. (02) 9484-0355



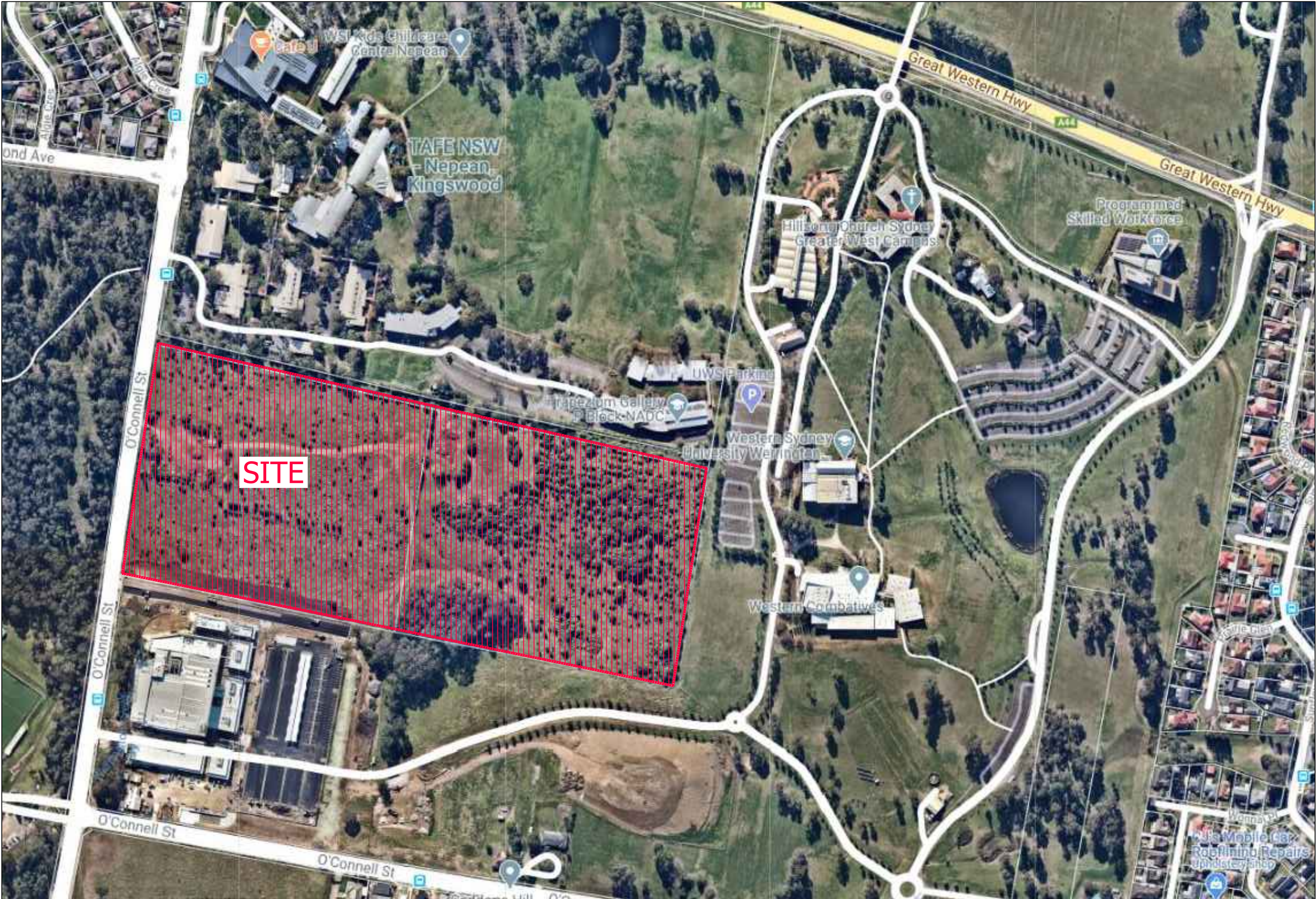
DA SUBMISSION
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION SUBDIVISION OF LOT 3 DP 1103503	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE		PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	46 O'CONNELL STREET CADDENS DA ENGINEERING				DRAWING NUMBER
						-	AHD	PENRITH CITY COUNCIL			ABN: 86 064 110 809		COVER SHEET				
						DESIGN	M.D.	CHECKING	M.M.	DA No.	DATE						
						DRAWN	W.M.	CHECKING	M.M.	CC No.	DATE						
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.												
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020														

TABLE OF CONTENTS

SHEET DESCRIPTION

001	COVER SHEET
002	TABLE OF CONTENTS AND SITE LOCALITY PLAN
100	PLAN OF SUBDIVISION - OVERALL PLAN
101	PLAN OF SUBDIVISION - SHEET 1
102	PLAN OF SUBDIVISION - SHEET 2
103	PLAN OF SUBDIVISION - SHEET 3
104	STAGING PLAN
200	ROAD LAYOUT PLAN - OVERALL PLAN
201	ROAD AND LOT LAYOUT PLAN - SHEET 1
202	ROAD AND LOT LAYOUT PLAN - SHEET 2
203	ROAD AND LOT LAYOUT PLAN - SHEET 3
204	ROAD 1 AND 2 LONGITUDINAL SECTION
205	ROAD 3, 7, 9 AND 11 LONGITUDINAL SECTION - SHEET 1
206	ROAD 3, 7, 9 AND 11 LONGITUDINAL SECTION - SHEET 2
207	ROAD 3, 7, 9 AND 11 LONGITUDINAL SECTION - SHEET 3
208	ROAD 4 AND 5 LONGITUDINAL SECTIONS
209	ROAD 6 AND 8 LONGITUDINAL SECTIONS
210	ROAD 10 LONGITUDINAL SECTION
211	LANEWAY LONGITUDINAL SECTION
212	O'CONNELL STREET LONGITUDINAL SECTION
213	CORR ROAD LONGITUDINAL SECTION
300	STORMWATER DRAINAGE PLAN - OVERALL PLAN
301	STORMWATER DRAINAGE PLAN -SHEET 1
302	STORMWATER DRAINAGE PLAN -SHEET 1
303	STORMWATER DRAINAGE PLAN -SHEET 3
304	STORMWATER DRAINAGE CATCHMENT PLAN
400	BULK EARTHWORKS PLAN
401	RETAINING WALL PLAN
410	SITE SECTIONS - SHEET 1
411	SITE SECTIONS - SHEET 2
412	SITE SECTIONS - SHEET 3
413	SITE SECTIONS - SHEET 4
414	SITE SECTIONS - SHEET 5
415	SITE SECTIONS - SHEET 6
416	SITE SECTIONS - SHEET 7
417	SITE SECTIONS - SHEET 8
600	TREE REMOVAL PLAN
601	TREE PROTECTION DETAILS
700	SOIL AND WATER MANAGEMENT PLAN - OVERALL PLAN
701	SOIL AND WATER MANAGEMENT PLAN - SHEET 1
702	SOIL AND WATER MANAGEMENT PLAN - SHEET 2
703	SOIL AND WATER MANAGEMENT PLAN - SHEET 3
704	SOIL AND WATER MANAGEMENT DETAILS
800	EXISTING SURVEY



SITE LOCALITY PLAN

N.T.S.

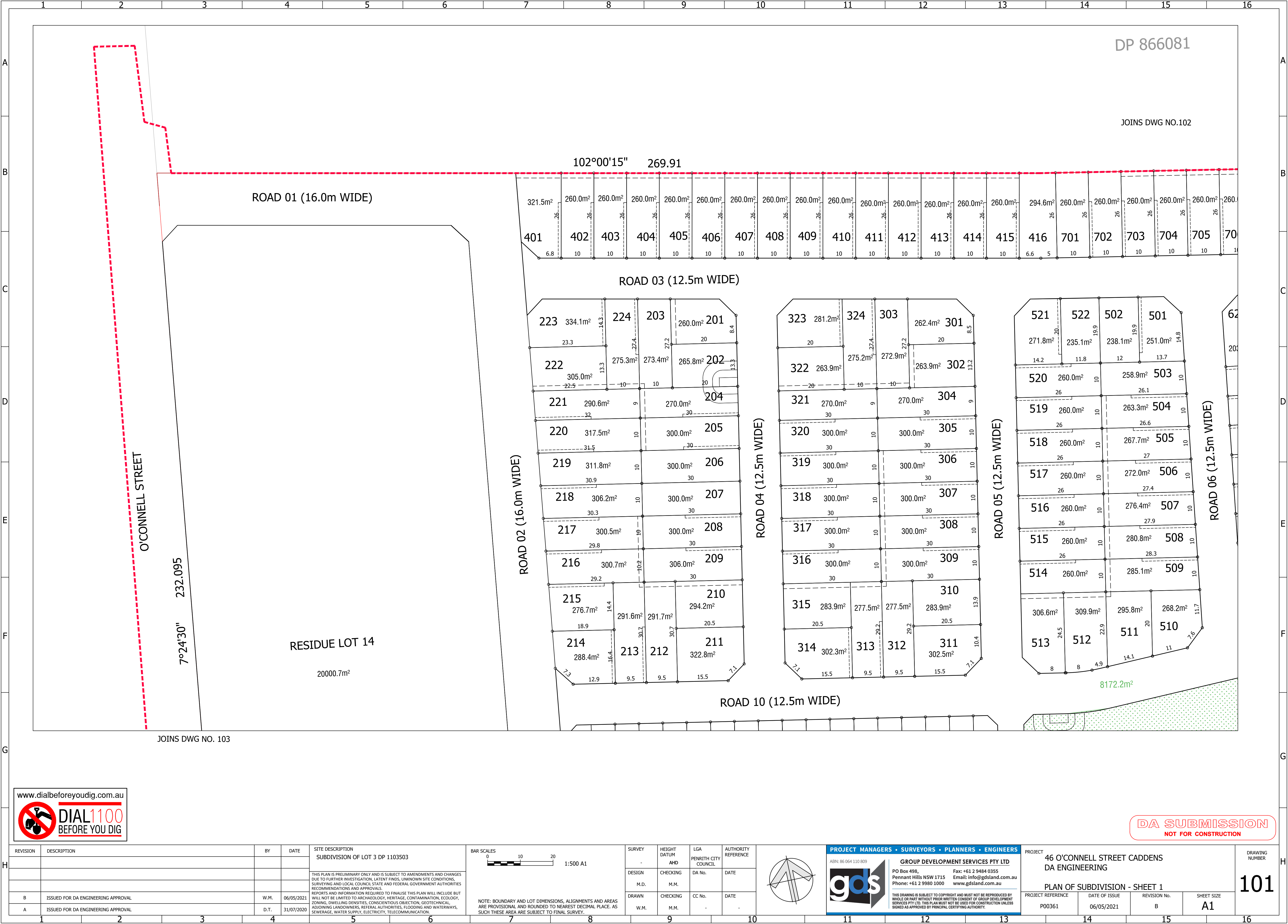
SUBDIVISION OF LOT 3 DP 1103503

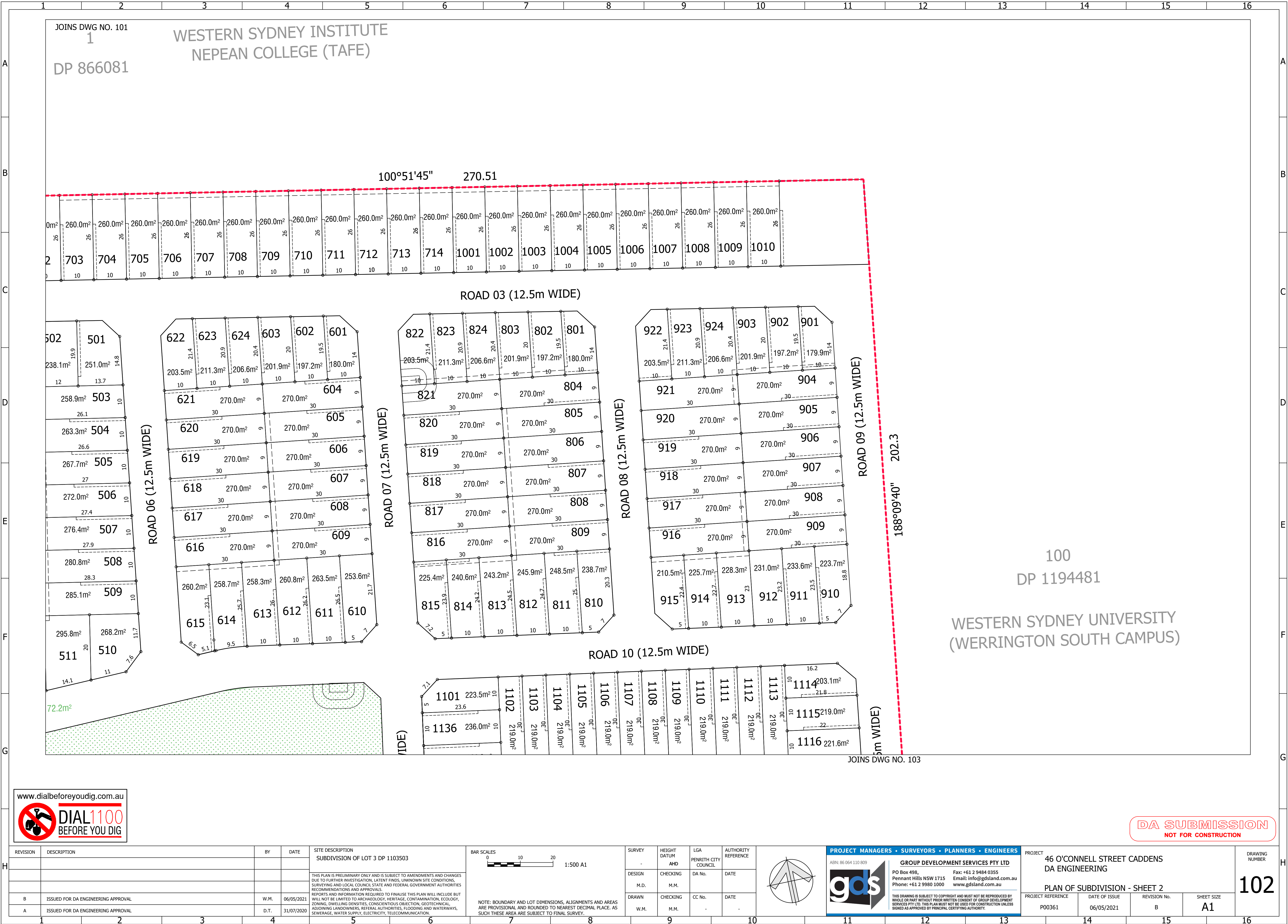
DATE: MAY 2021

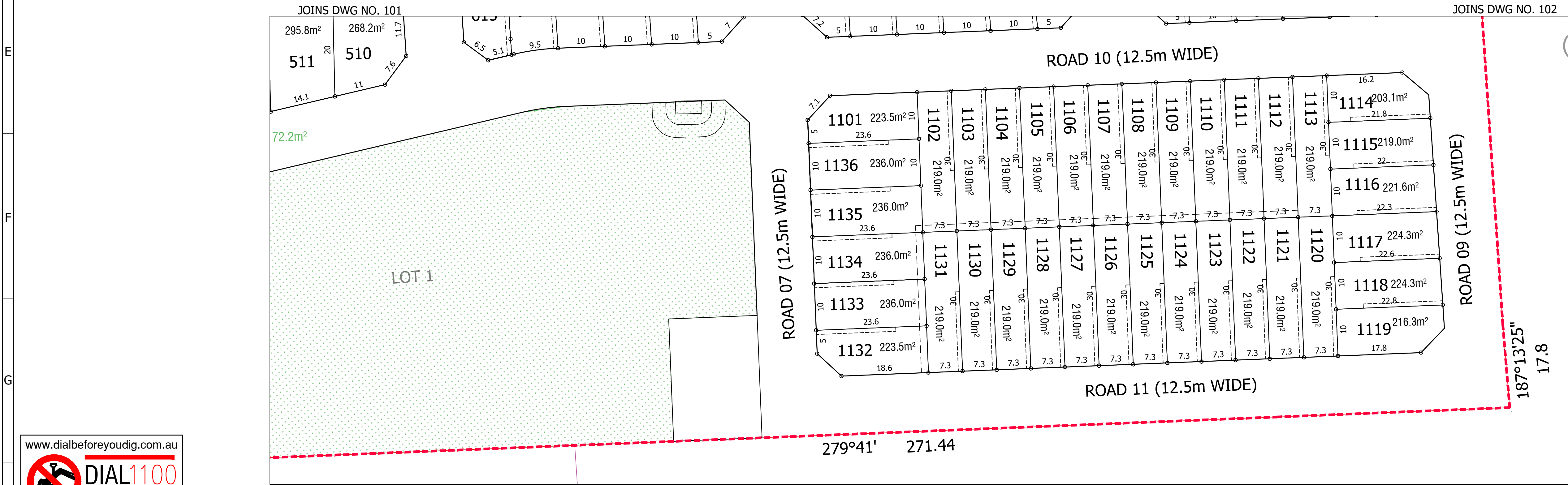
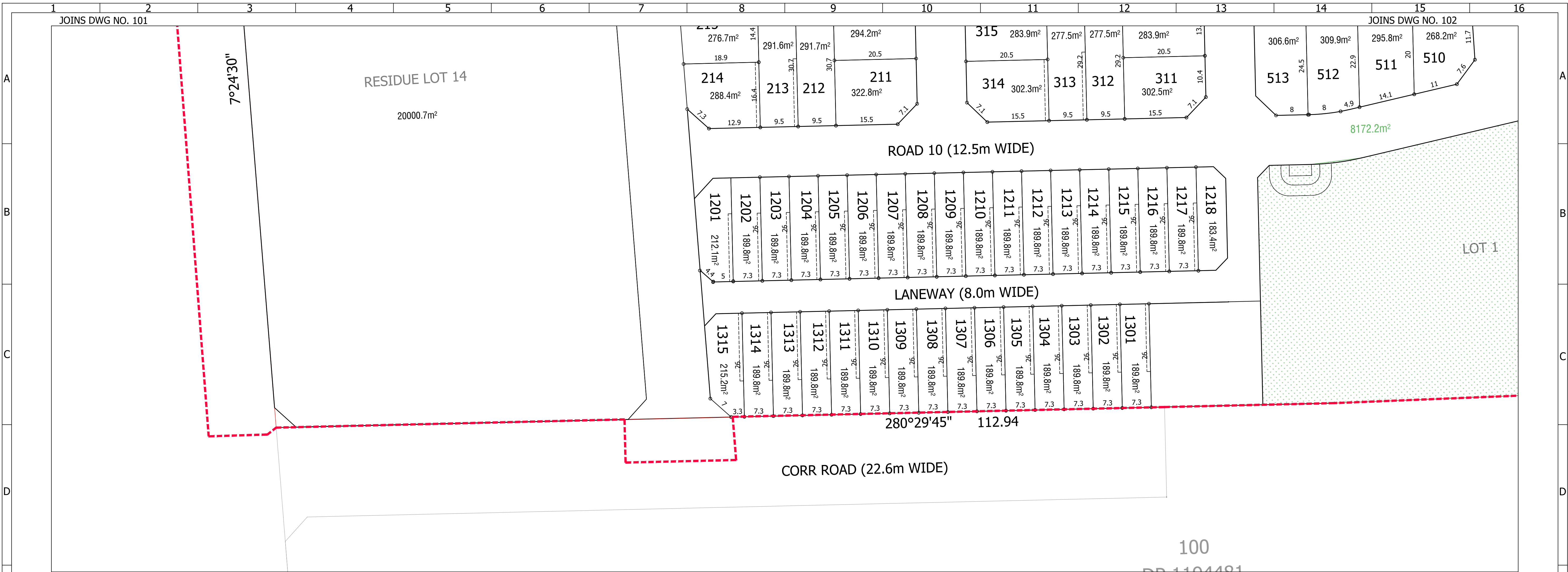


DA SUBMISSION NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE		PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503		-	AHD	PENRITH CITY COUNCIL	DATE		ABN: 86 064 110 809	46 O'CONNELL STREET CADDENS DA ENGINEERING	
				THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.		DESIGN	CHECKING	DA No.	DATE		GROUP DEVELOPMENT SERVICES PTY LTD	TABLE OF CONTENTS AND SITE LOCALITY PLAN	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		DRAWN	CHECKING	CC No.	DATE		PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9980 1000	PROJECT REFERENCE	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020		NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.	W.M.	M.M.	-	-		Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	DATE OF ISSUE	
											THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	REVISION No.	
												SHEET SIZE	
												P00361	
												06/05/2021	
												B	
												A1	

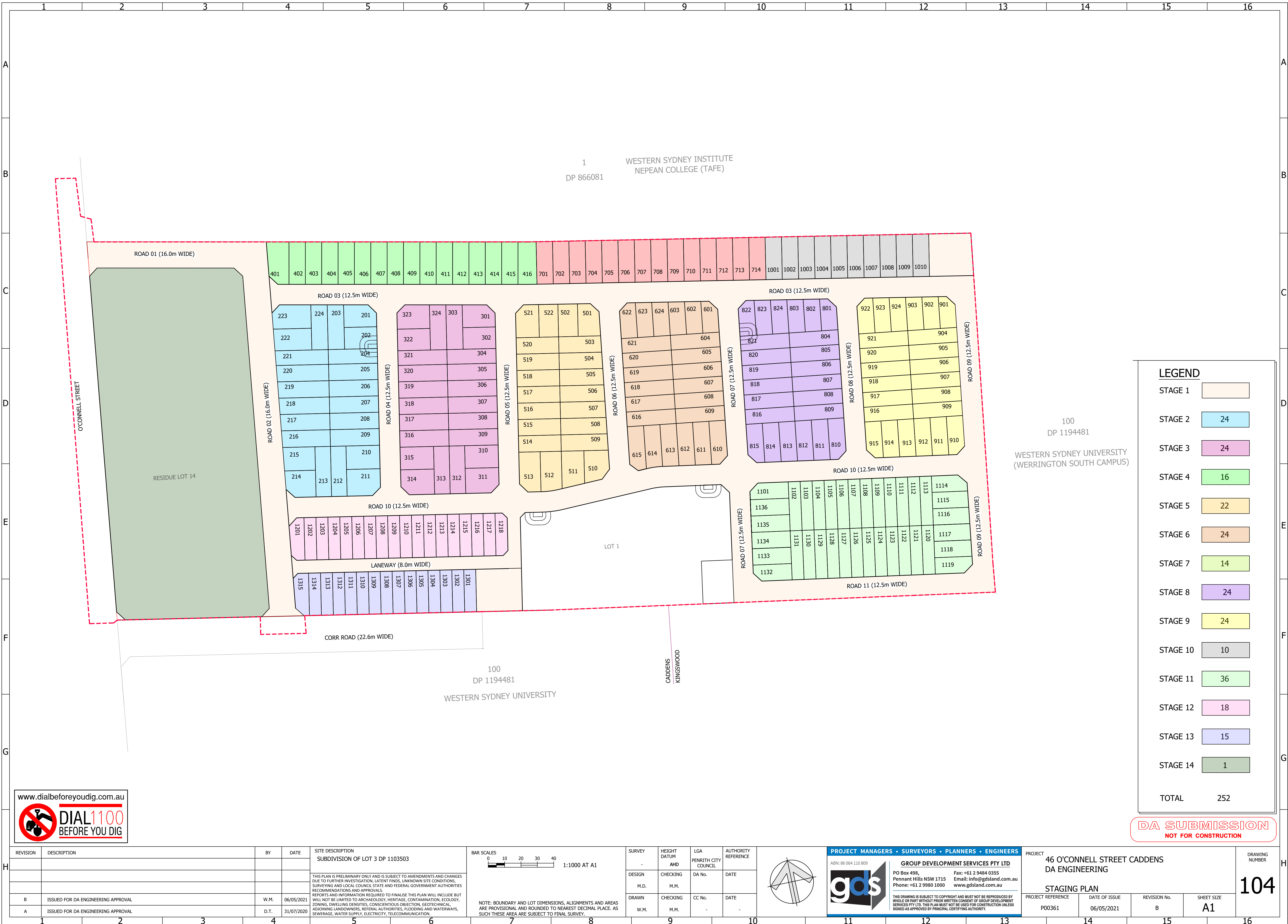


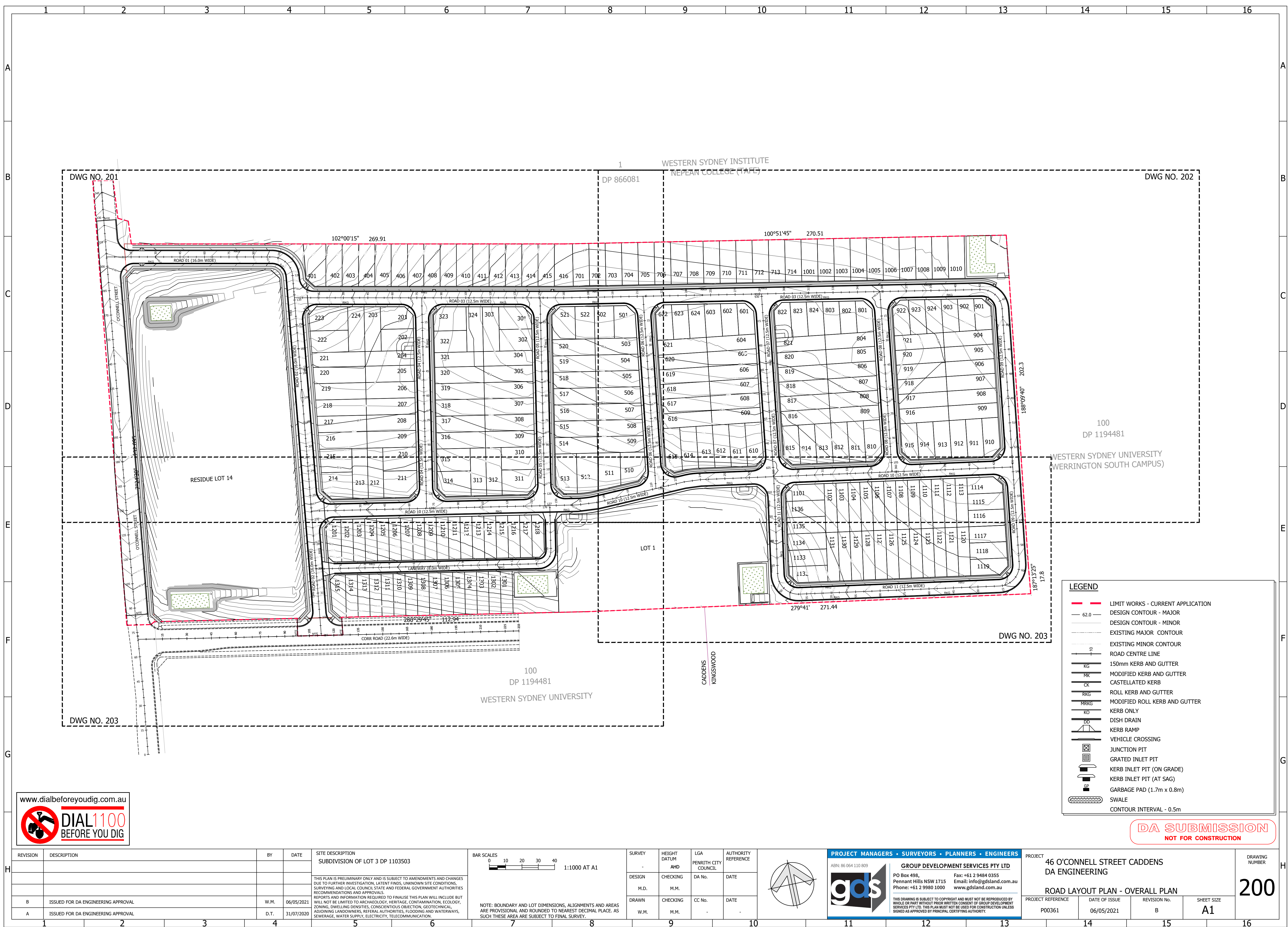


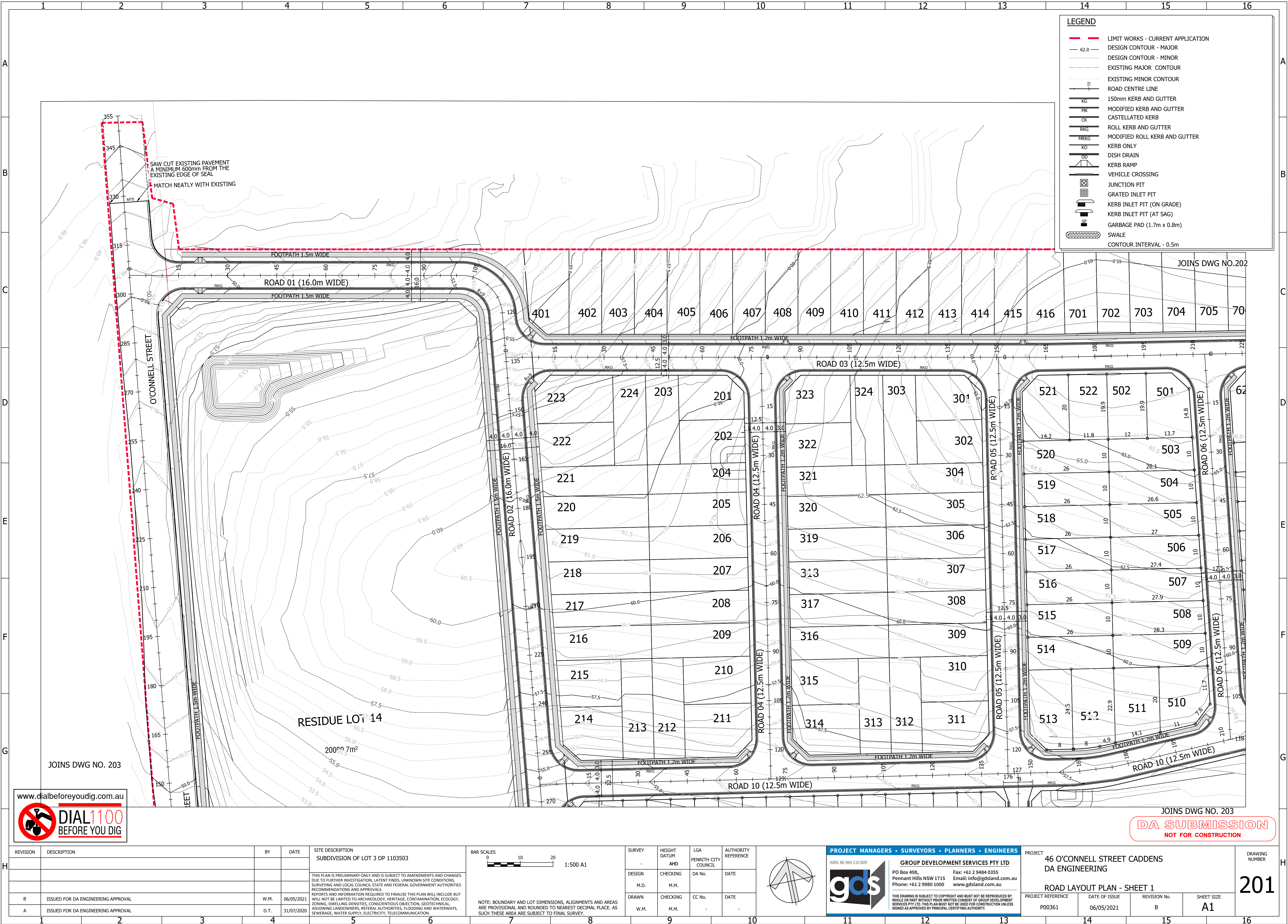


DA SUBMISSION
NOT FOR CONSTRUCTION

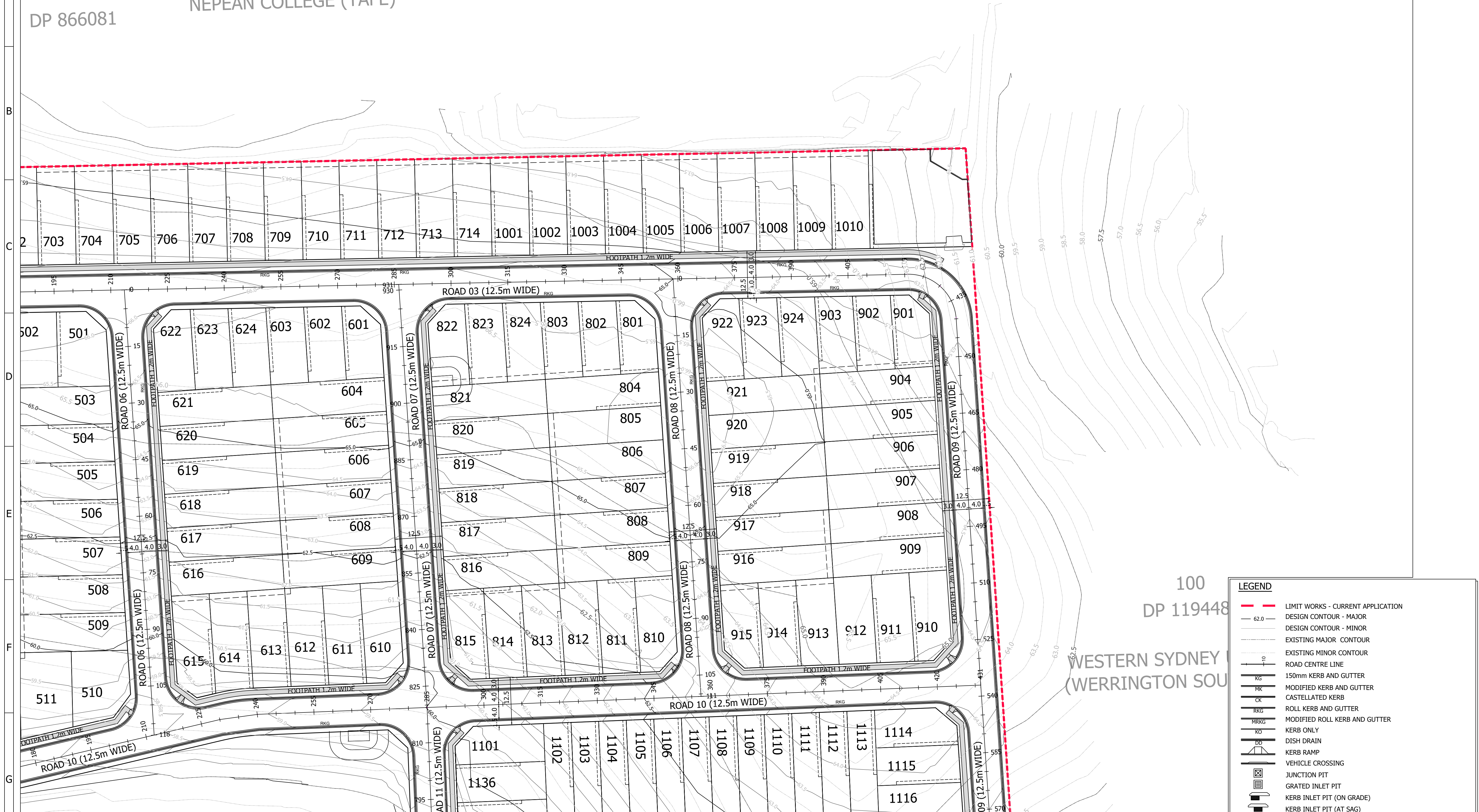
REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 1:500 A1	-	AHD	PENRITH CITY COUNCIL		PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS ABN: 86 064 110 809	46 O'CONNELL STREET CADDENS DA ENGINEERING	
				THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		DESIGN	CHECKING	DA No.	DATE	GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9980 1000 Email: info@gdsland.com.au www.gdsland.com.au	PLAN OF SUBDIVISION - SHEET 3	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021			DRAWN	CHECKING	CC No.	DATE	THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	PROJECT REFERENCE P00361	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020								DATE OF ISSUE 06/05/2021	
											REVISION No. B	
											SHEET SIZE A1	







NEPEAN COLLEGE (TAFE)



100
DP 119448

WESTERN SYDNEY
(WERRINGTON SOUTH)

LEGEND

	LIMIT WORKS - CURRENT APPLICATION
	DESIGN CONTOUR - MAJOR
	DESIGN CONTOUR - MINOR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	ROAD CENTRE LINE
	150mm KERB AND GUTTER
	MODIFIED KERB AND GUTTER
	CASTELLATED KERB
	ROLL KERB AND GUTTER
	MODIFIED ROLL KERB AND GUTTER
	KERB ONLY
	DISH DRAIN
	KERB RAMP
	VEHICLE CROSSING
	JUNCTION PIT
	GRATED INLET PIT
	KERB INLET PIT (ON GRADE)
	KERB INLET PIT (AT SAG)
	GARBAGE PAD (1.7m x 0.8m)
	SWALE
	CONTOUR INTERVAL - 0.5m

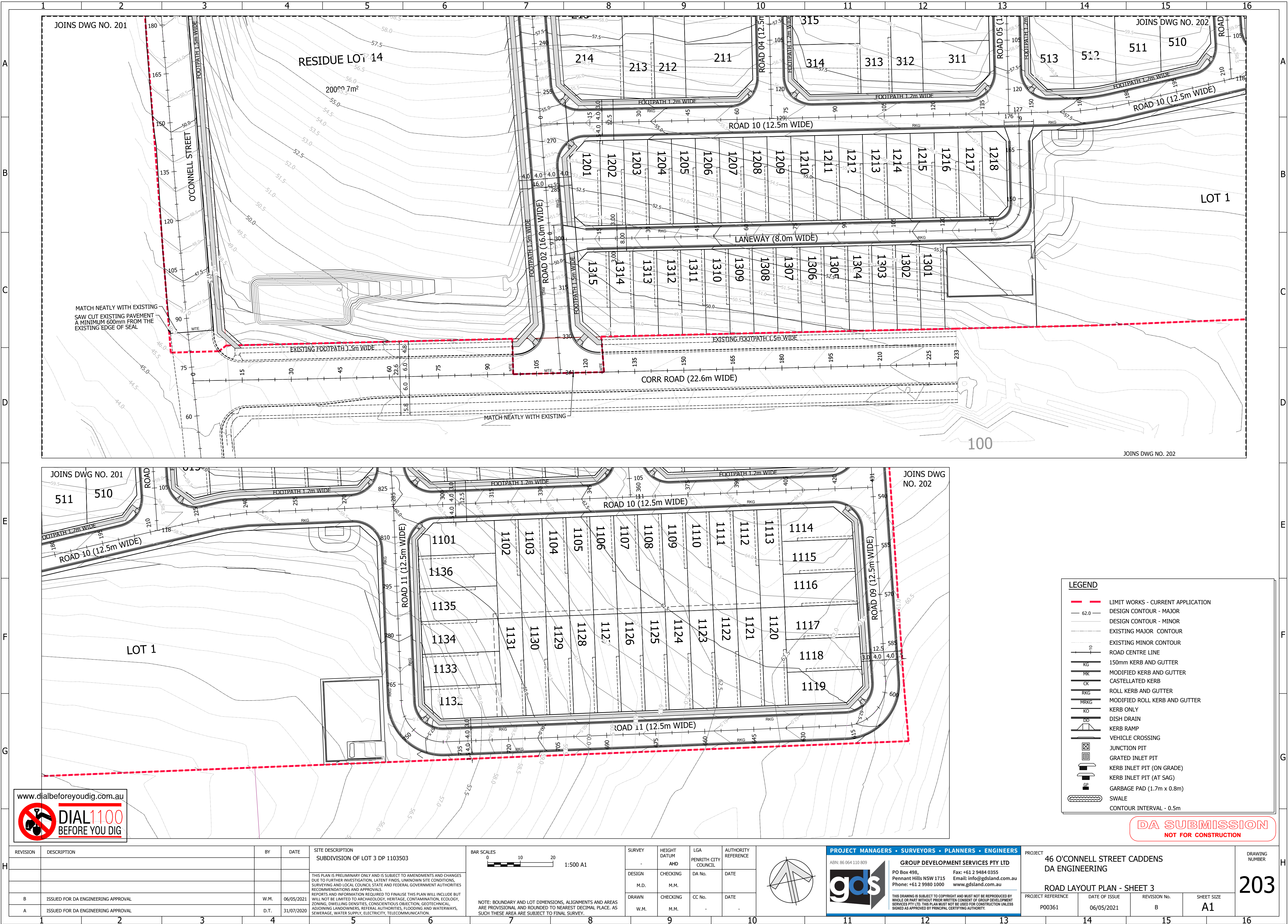
DA SUBMISSION
NOT FOR CONSTRUCTION

www.dialbeforeyoudig.com.au



REVISION		DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS				PROJECT	DRAWING NUMBER		
					SUBDIVISION OF LOT 3 DP 1103503	 1:500 A1	-	AHD	PENRITH CITY COUNCIL			ABN: 86 064 110 809 GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Penrith Hills NSW 1715 Phone: +61 2 9980 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au				46 O'CONNELL STREET CADDENS DA ENGINEERING	202	
					THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL, STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.	DESIGN	CHECKING	DA No.	DATE					ROAD LAYOUT PLAN - SHEET 2				
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSENTIOUS OBJECTION, GEOTECHNICAL, ADDITIONAL LANDOWNERS, REGIONAL AND BOUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.		M.D.	M.M.											
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE									
							W.M.	M.M.	-	-	THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY ANY INDIVIDUAL OR PART WITHOUT PRIOR WRITTEN PERMISSION OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.				P00361	06/05/2021	B	A1

FILE LOCATION: C:\USERS\DESIGN\GROUP DEVELOPMENT SERVICES\GDS TEAM - DOCUMENTS_2 CURRENT PROJECTS\PO0361 46-66 D'CONNELL ST CADDENS\4. ENGINEERING\4. DA ENGINEERING\PO0361-46-66 D'CONNELL ST CADDENS-DA ENG-REV B.DWG -DWG NO: 202 -(Plot with----) PLOT DATE: 5/6/2021 11:33 AM

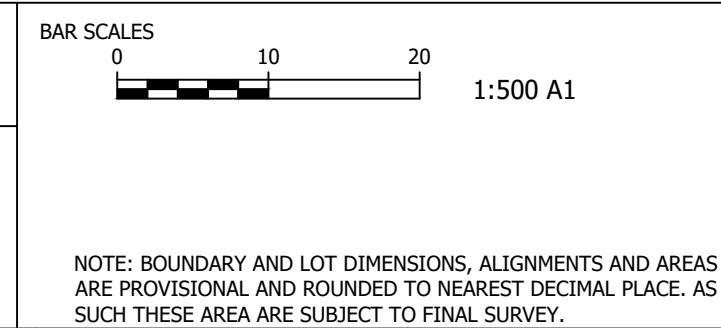


REVISION	DESCRIPTION	BY	DATE
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020

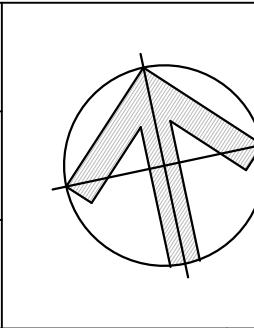
SITE DESCRIPTION
SUBDIVISION OF LOT 3 DP 1103503

THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.

REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.



SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE
DESIGN	CHECKING	DA No.	DATE
M.D.	M.M.		
DRAWN	CHECKING	CC No.	DATE
W.M.	M.M.		



PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS

ABN: 86 064 110 809

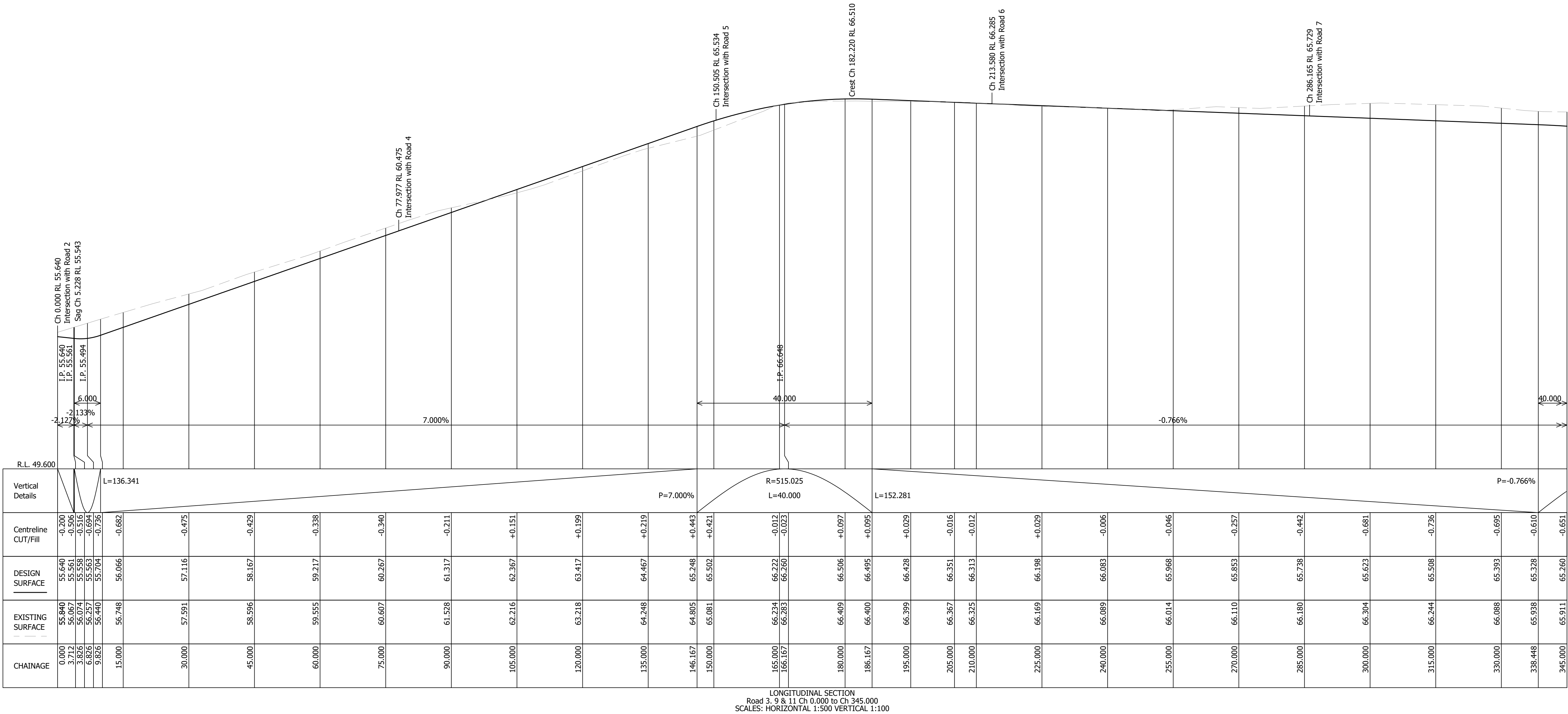
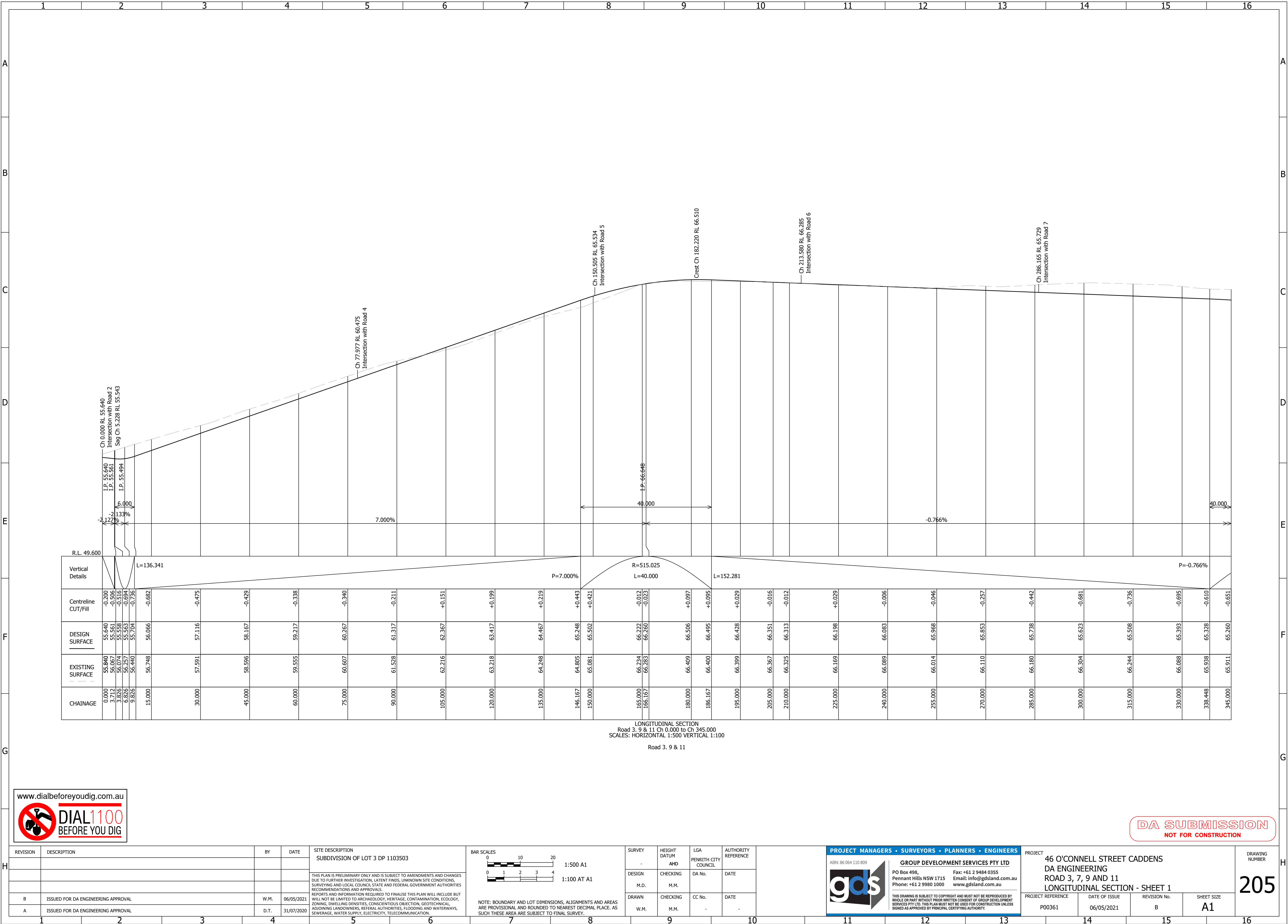
GROUP DEVELOPMENT SERVICES PTY LTD

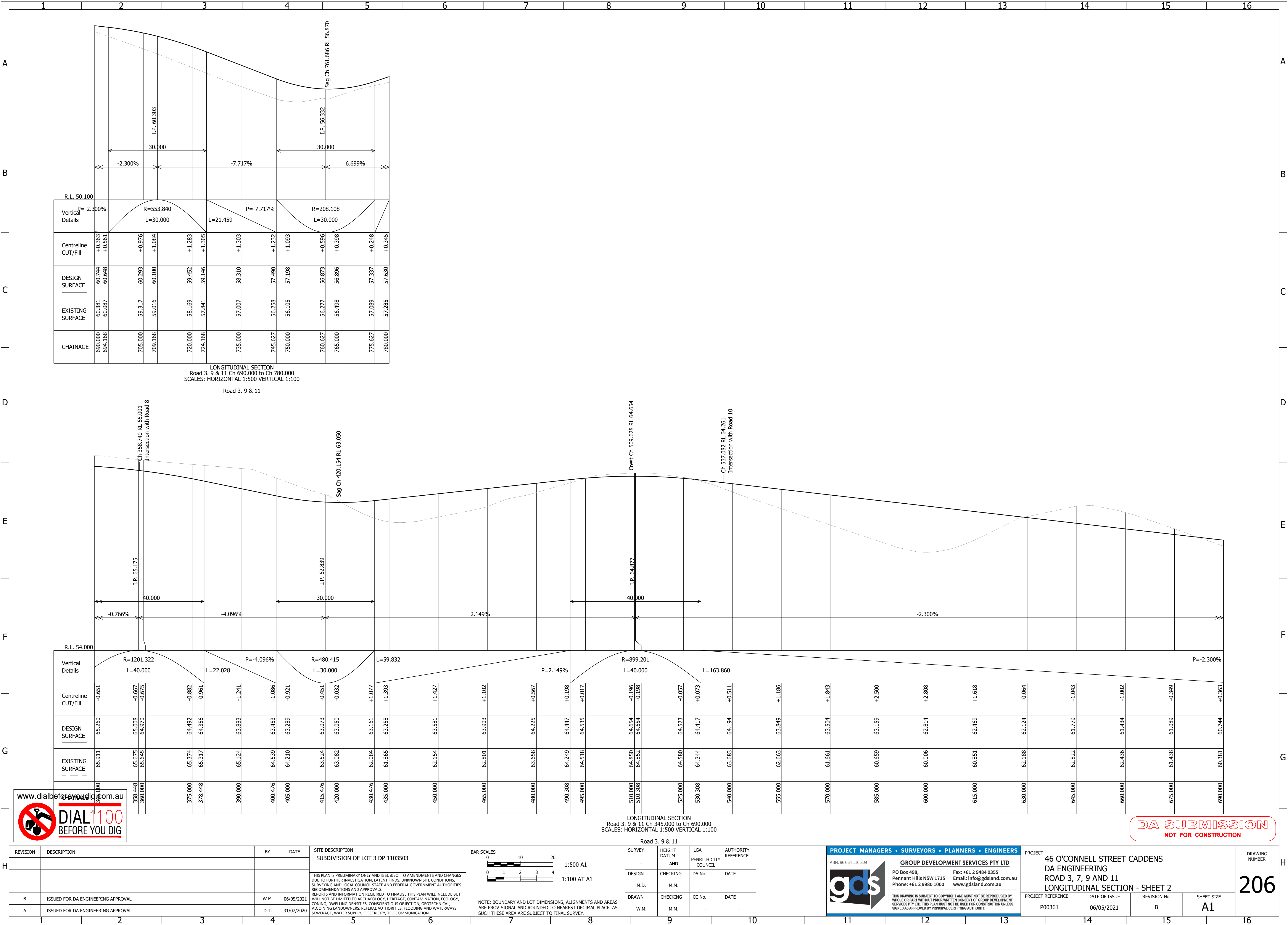
PO Box 498,
Pennant Hills NSW 1715
Phone: +61 2 9580 1000

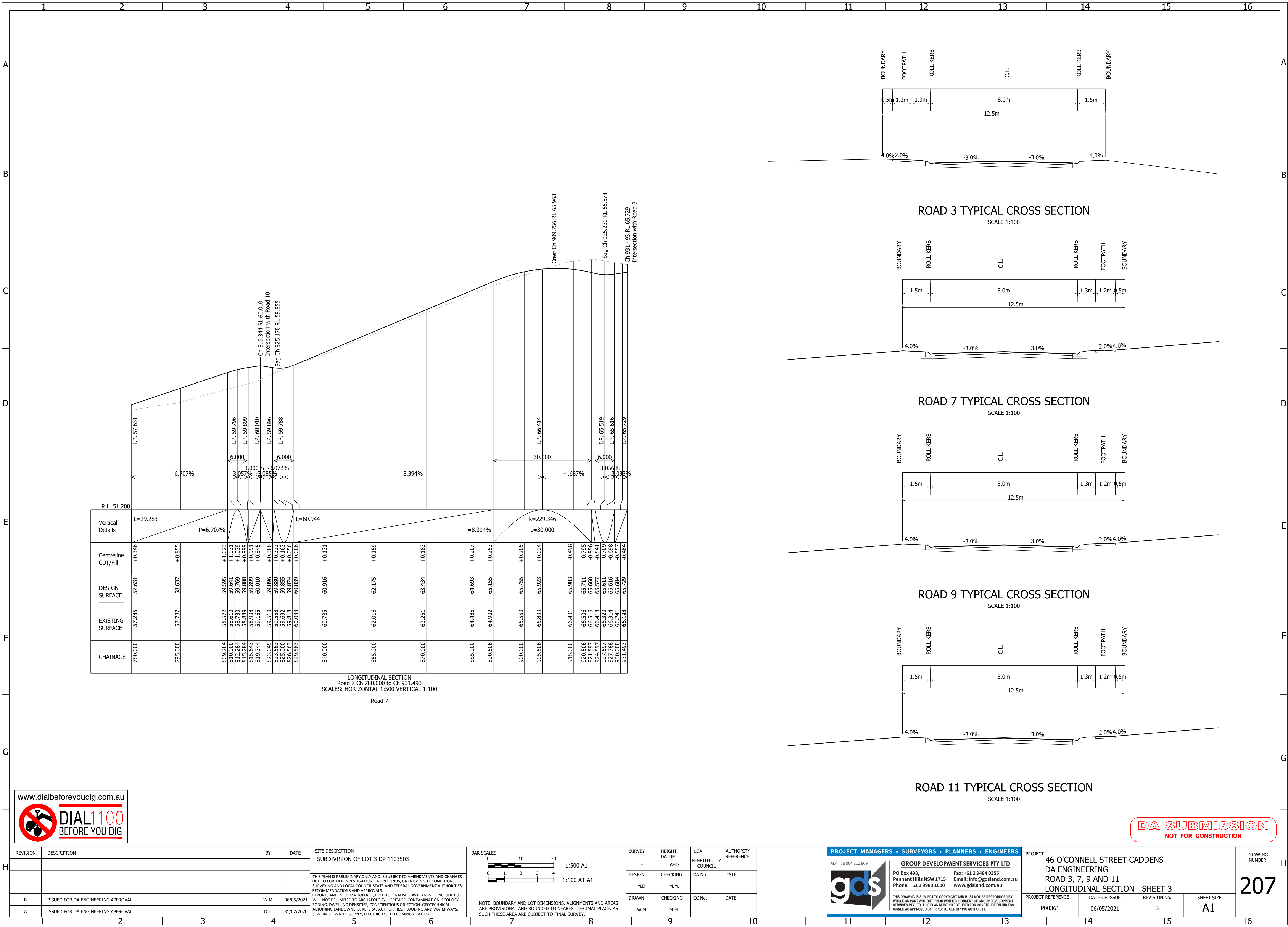
Fax: +61 2 9484 0355
Email: info@gdsland.com.au
www.gdsland.com.au

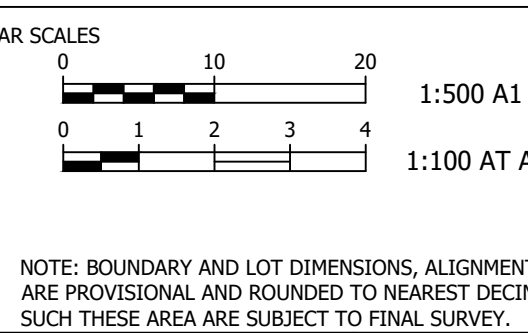
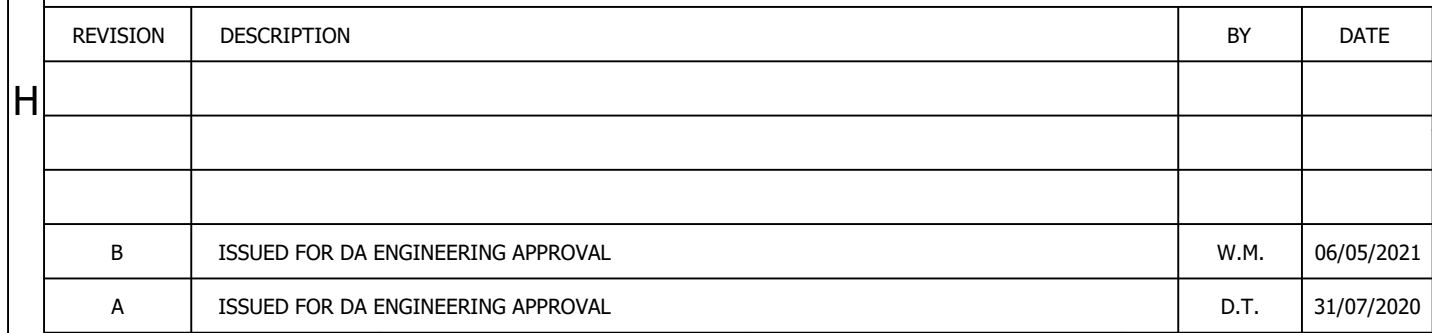
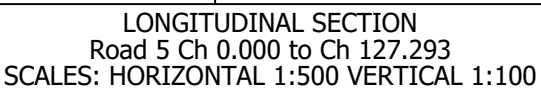
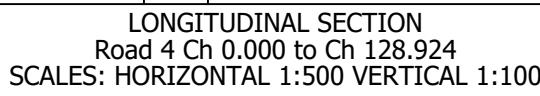
THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.

PROJECT	46 O'CONNELL STREET CADDENS DA ENGINEERING	DRAWING NUMBER	203
PROJECT REFERENCE	PO0361	DATE OF ISSUE	06/05/2021
REVISION No.	B	SHEET SIZE	A1

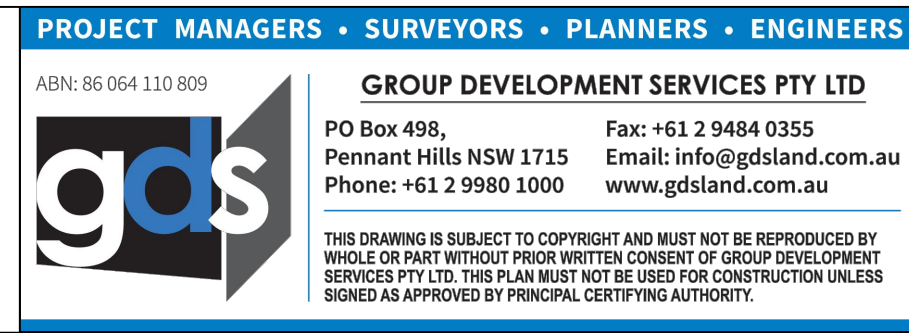




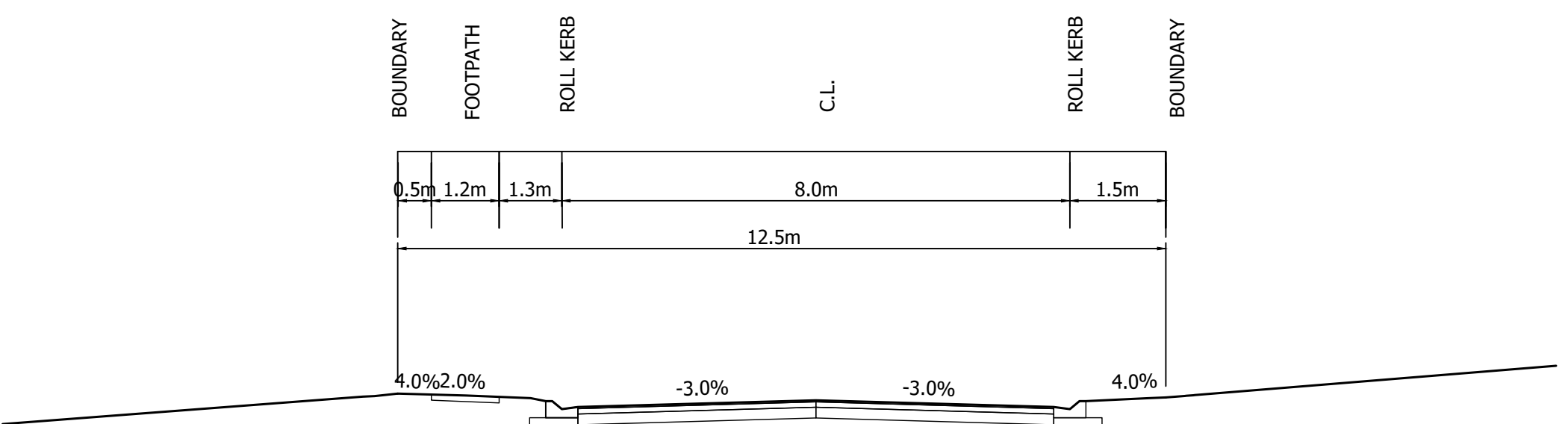




SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE
-	AHD	PENRITH CITY COUNCIL	
DESIGN	CHECKING	DA No.	DATE
M.D.	M.M.		
DRAWN	CHECKING	CC No.	DATE
W.M.	M.M.	-	-

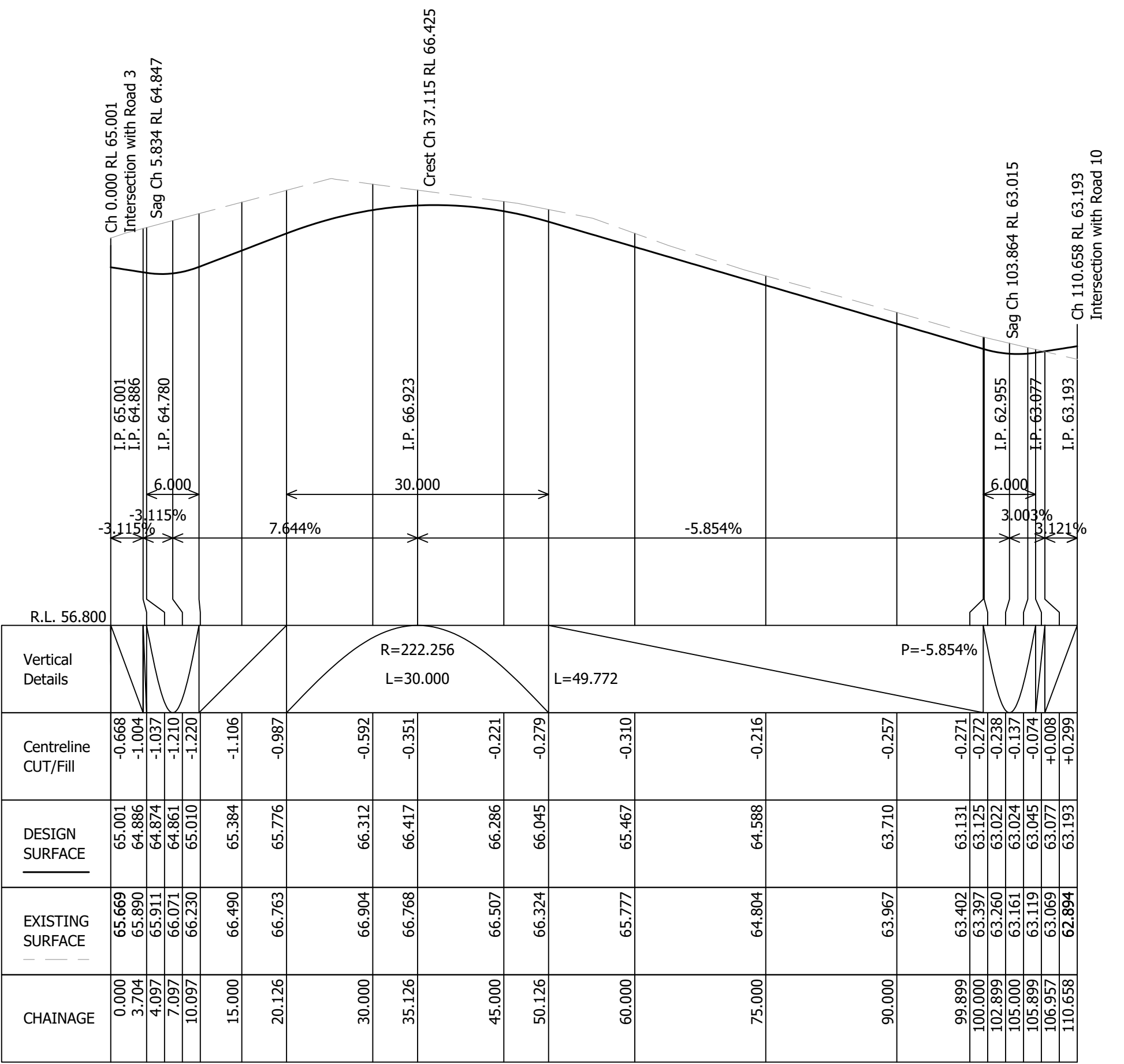


PROJECT 46 O'CONNELL STREET CADDENS DA ENGINEERING ROAD 4 AND 5 LONGITUDINAL SECTIONS				DRAWING NUMBER 208
PROJECT REFERENCE	DATE OF ISSUE	REVISION No.	SHEET SIZE	
P00361	06/05/2021	B	A1	



ROAD 8 TYPICAL CROSS SECTION

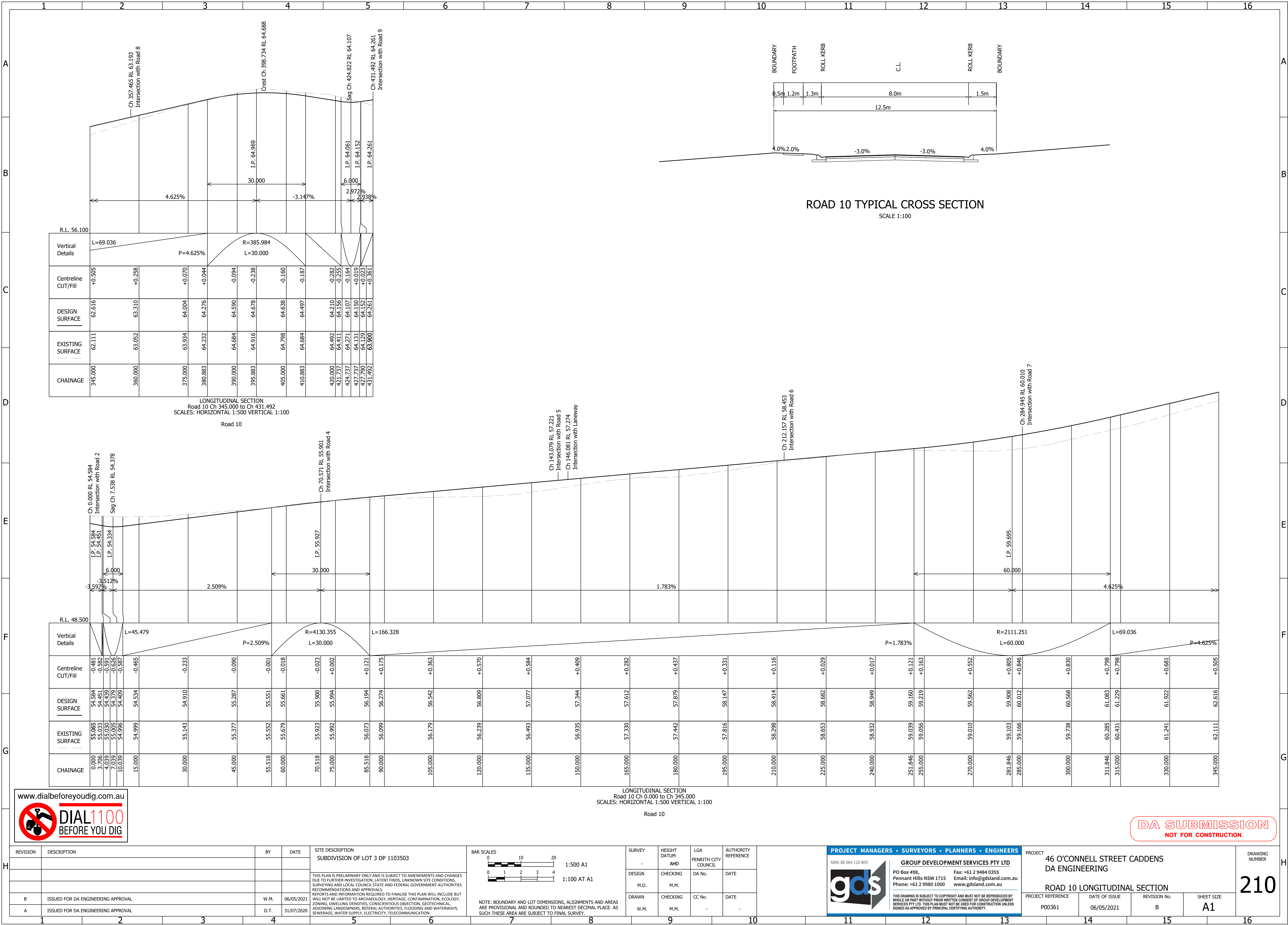
SCALE 1:100

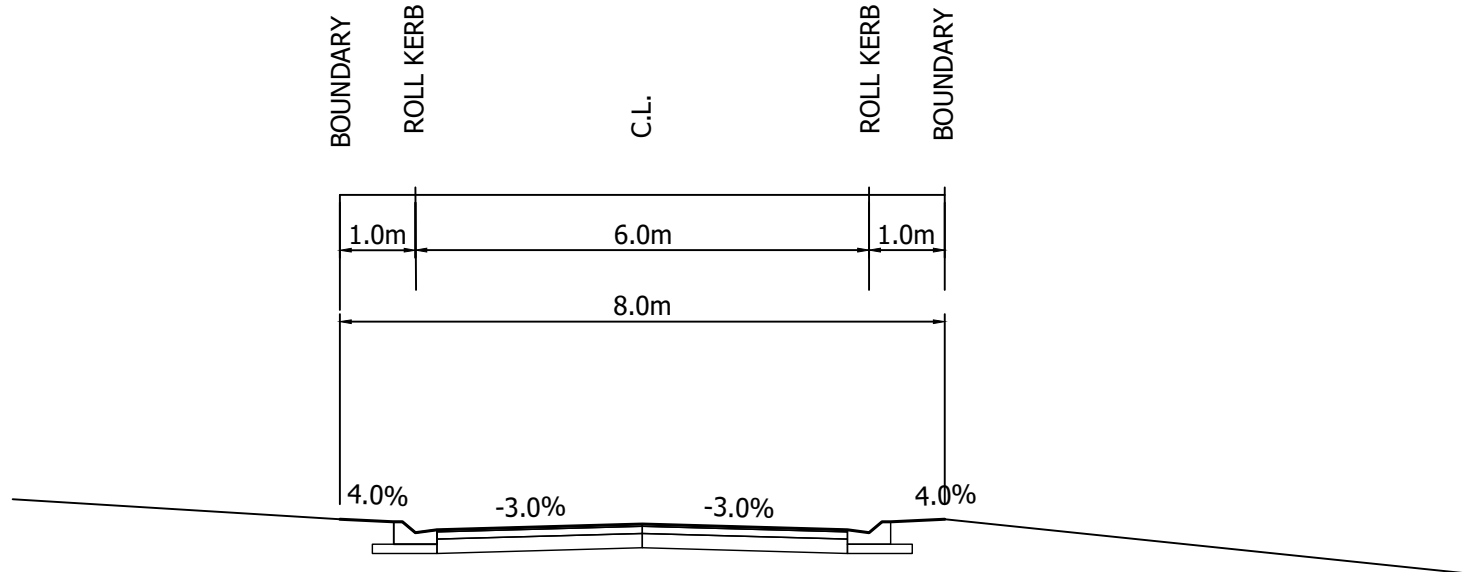


LONGITUDINAL SECTION
Road 8 Ch 0.000 to Ch 110.658
SCALES: HORIZONTAL 1:500 VERTICAL 1:100
Road 8

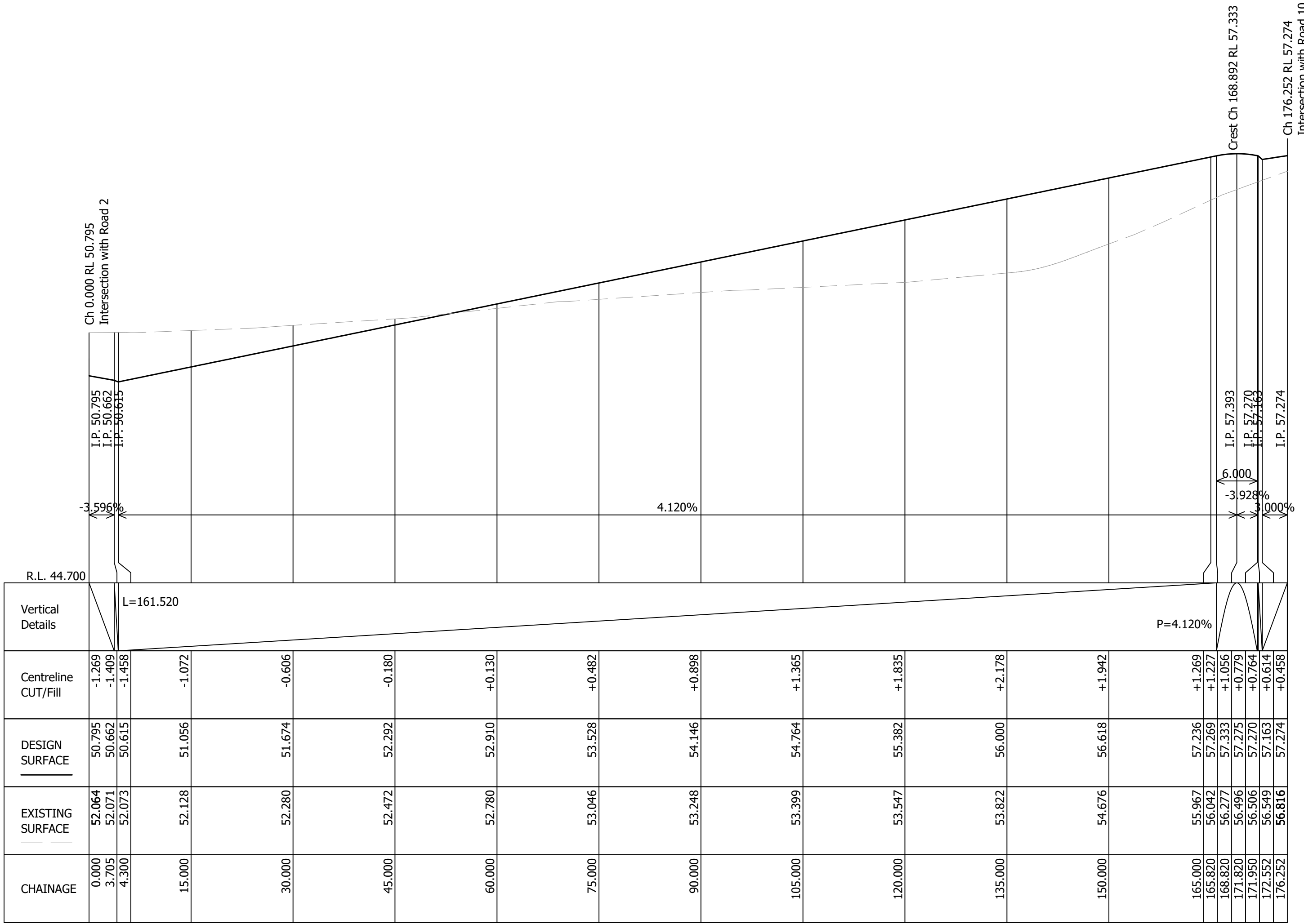


FILE LOCATION: C:\USERS\DESIGN\GROUP DEVELOPMENT SERVICES\GDS TEAM - DOCUMENTS\2 CURRENT PROJECTS\P00361-46-66 O'CONNELL ST CADDENS\4. ENGINEERING\4. DA ENGINEERING\P00361-46-66 O'CONNELL ST CADDENS-DA ENG-REV B.DWG -DWG NO: 209 -(Plot with----) - PLOT DATE: 5/6/2021 11:34 AM





LANEWAY TYPICAL CROSS SECTION
SCALE 1:100



Vertical Details	Centreline CUT/Fill	DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
	-1.269	50.795	52.064	0.000
	-1.409	50.662	52.071	3.705
	-1.458	50.615	52.073	4.300
	-1.072	51.056	52.128	15.000
	-0.606	51.674	52.280	30.000
	-0.180	52.292	52.472	45.000
	+0.130	52.910	52.780	60.000
	+0.482	53.528	53.046	75.000
	+0.898	54.146	53.248	90.000
	+1.365	54.764	53.399	105.000
	+1.835	55.382	53.547	120.000
	+2.178	56.000	53.822	135.000
	+1.942	56.618	54.676	150.000
	+1.269	57.236	55.967	165.000
	+1.227	57.269	56.042	165.820
	+1.056	57.333	56.277	168.820
	+0.779	57.475	56.496	171.820
	+0.614	57.583	56.630	173.820
	+0.458	57.647	56.681	176.252

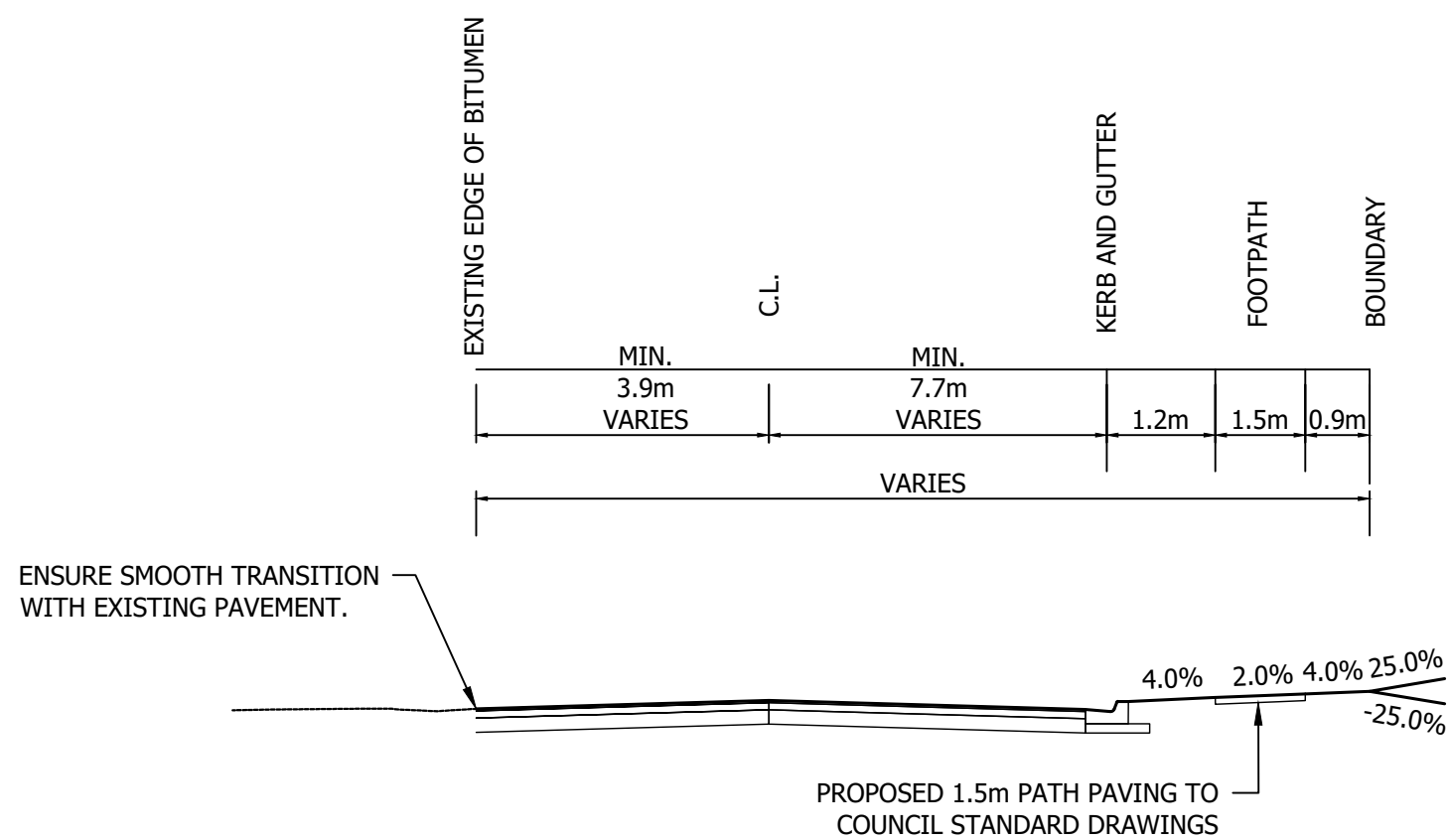
LONGITUDINAL SECTION
Laneway Ch 0.000 to Ch 176.252
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

LANEWAY

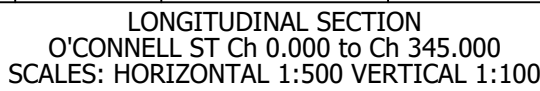


DA SUBMISSION
NOT FOR CONSTRUCTION

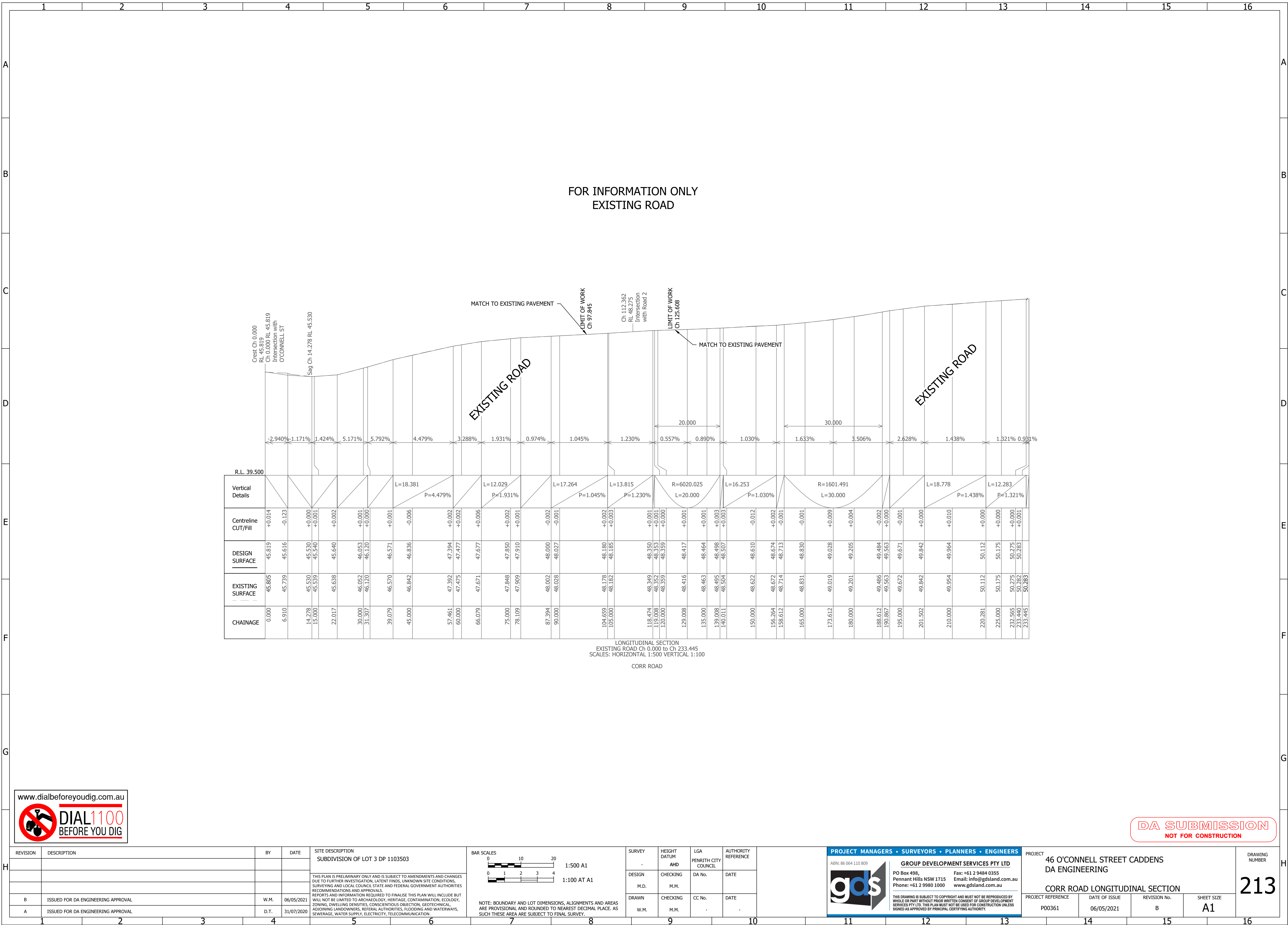
REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 0 1 2 3 4	-	AHD	PENRITH CITY COUNCIL		ABN: 86 064 110 809	46 O'CONNELL STREET CADDENS DA ENGINEERING	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	1:500 A1 1:100 AT A1	DESIGN	CHECKING	DA No.	DATE	GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9980 1000	LANEWAY LONGITUDINAL SECTION	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020		NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.	DRAWN	CHECKING	CC No.	DATE	Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	PROJECT REFERENCE	
						W.M.	M.M.	-	-	THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	
											A1	



LONGITUDINAL SECTION
O'CONNELL ST Ch 345.000 to Ch 354.604
SCALES: HORIZONTAL 1:500 VERTICAL 1:100
O'CONNELL ST

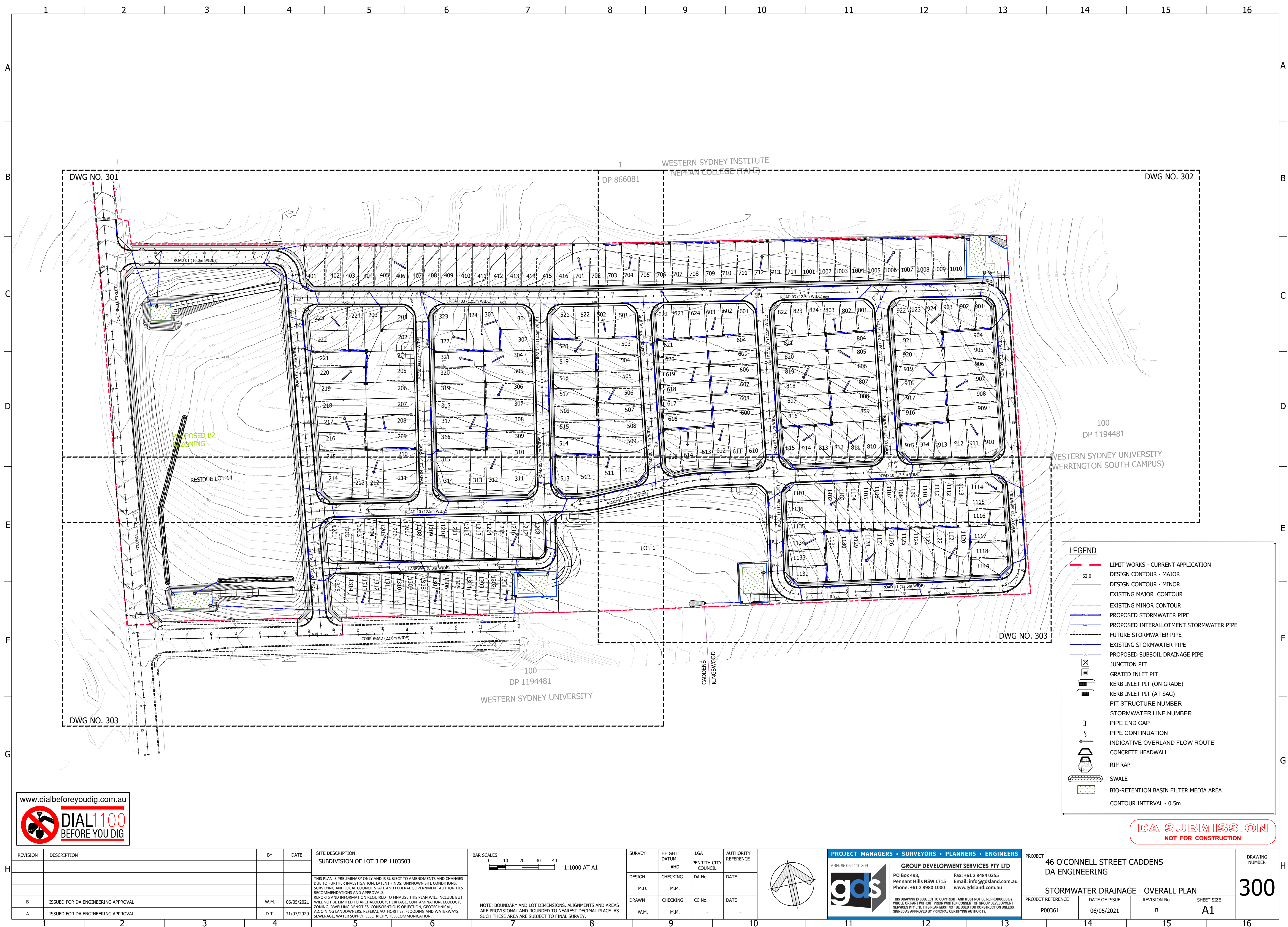


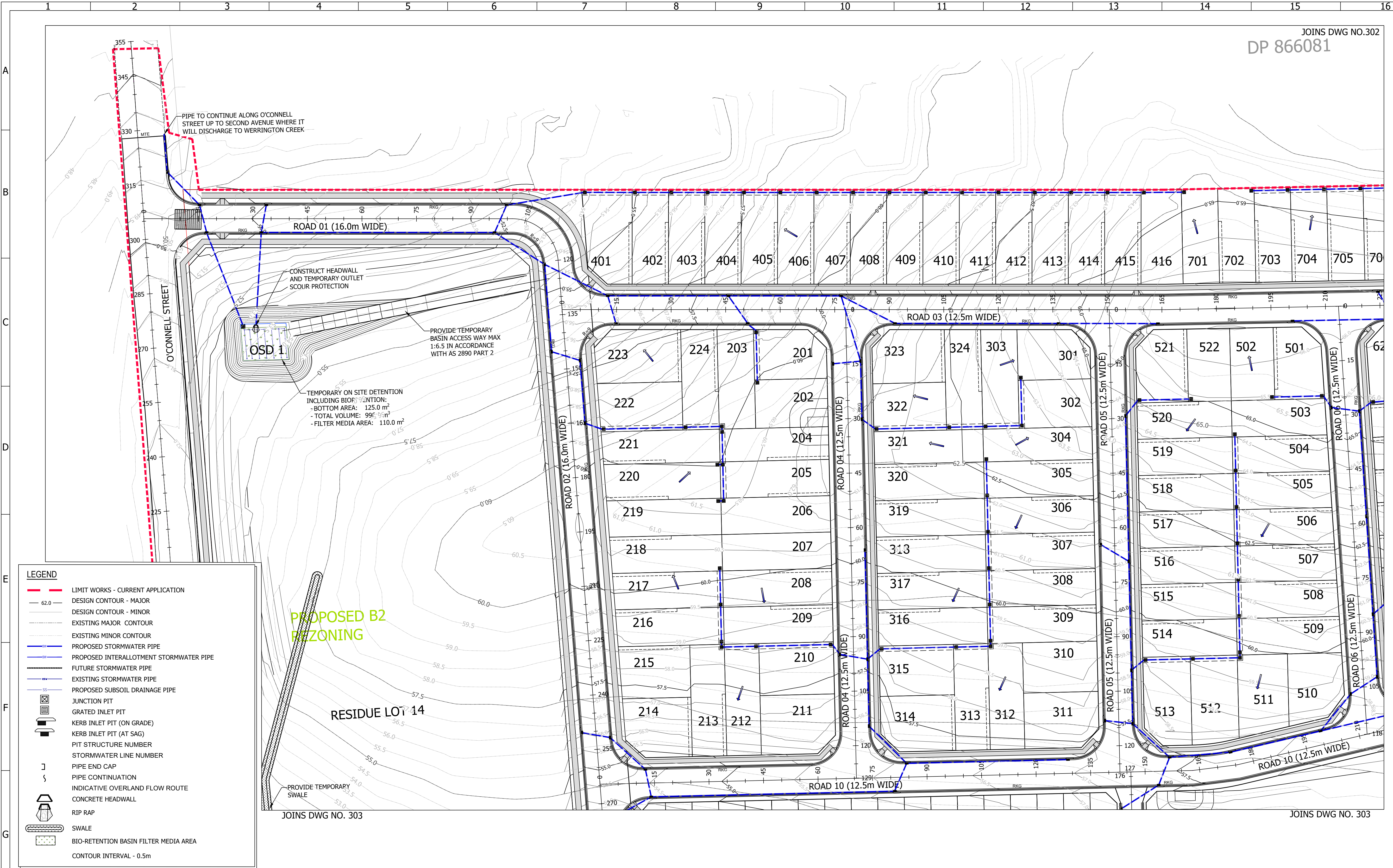
FILE LOCATION: C:\USERS\DESIGN\GROUP DEVELOPMENT SERVICES\GDS TEAM - DOCUMENTS_2 CURRENT PROJECTS\P00361 46-66 O'CONNELL ST CADDENS\4. ENGINEERING\4. DA ENGINEERING\P00361-46-66 O'CONNELL ST CADDENS-DA ENG-REV 8.DWG -DWG NO: 212 -(Plot with----) - PLOT DATE: 5/6/2021 11:35 AM



DA SUBMISSION
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 0 1 2 3 4 1:500 A1 1:100 AT A1	-	AHD	PENRITH CITY COUNCIL		ABN: 86 064 110 809	46 O'CONNELL STREET CADDENS DA ENGINEERING	213
				THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		DESIGN	CHECKING	DA No.	DATE	GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9980 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	PROJECT REFERENCE	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021			DRAWN	CHECKING	CC No.	DATE	THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	06/05/2021	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			W.M.	M.M.	-	-		REVISION No.	
1											B	
2											SHEET SIZE	
3											A1	
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												





www.dialbeforeyoudig.com.au

REVISION	DESCRIPTION	BY	DATE
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020

SITE DESCRIPTION
SUBDIVISION OF LOT 3 DP 1103503

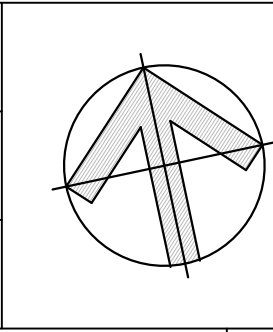
THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.

REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.

BAR SCALES
0 10 20
1:500 A1

NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREAS ARE SUBJECT TO FINAL SURVEY.

SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE
DESIGN	CHECKING	DA No.	DATE
M.D.	M.M.		
DRAWN	CHECKING	CC No.	DATE
W.M.	M.M.		



PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS

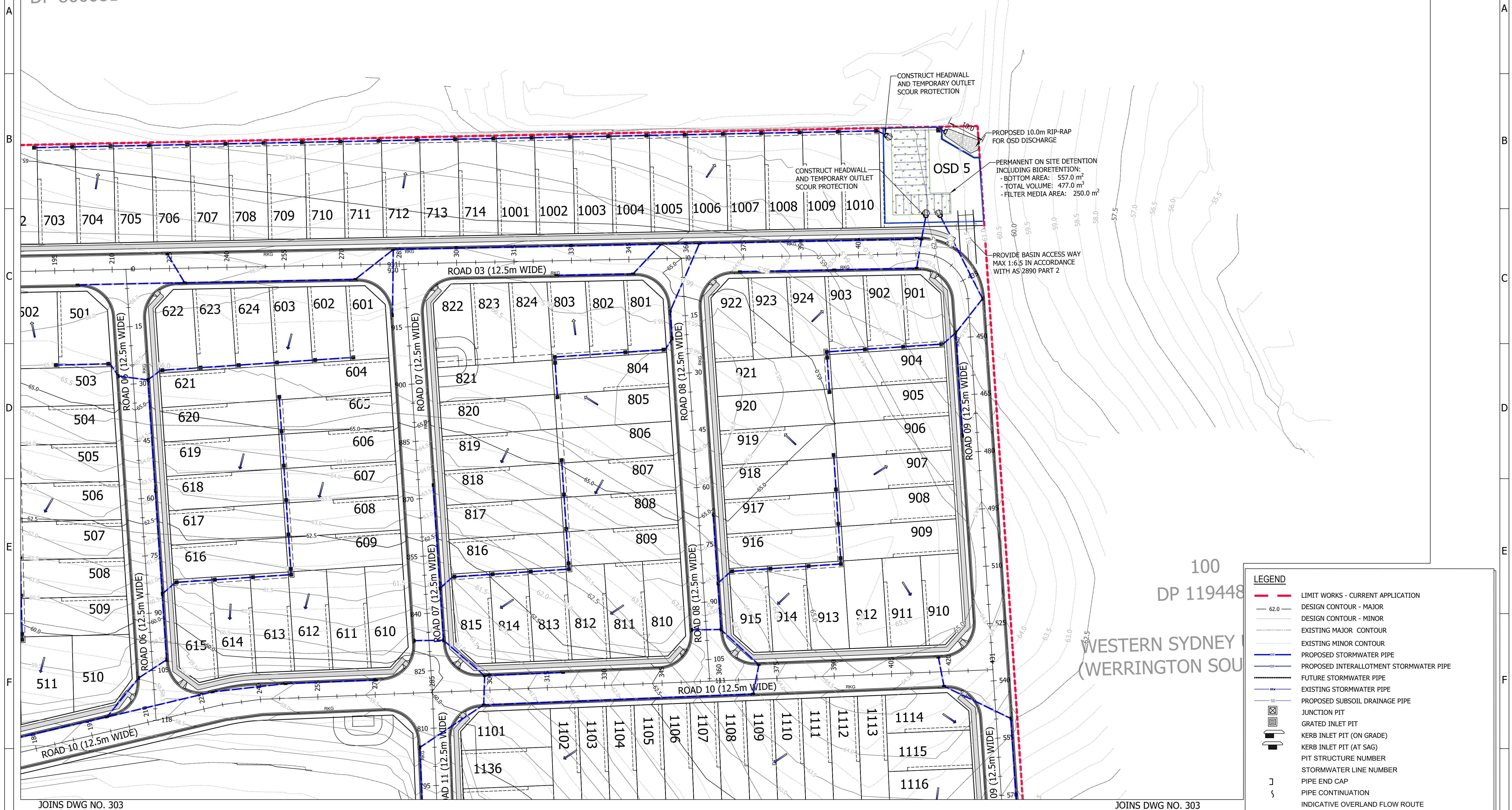
ABN: 86 064 110 809

GROUP DEVELOPMENT SERVICES PTY LTD

PO Box 498, Pennant Hills NSW 1715
Phone: +61 2 9980 1000
Fax: +61 2 9484 0355
Email: info@gdsland.com.au
www.gdsland.com.au

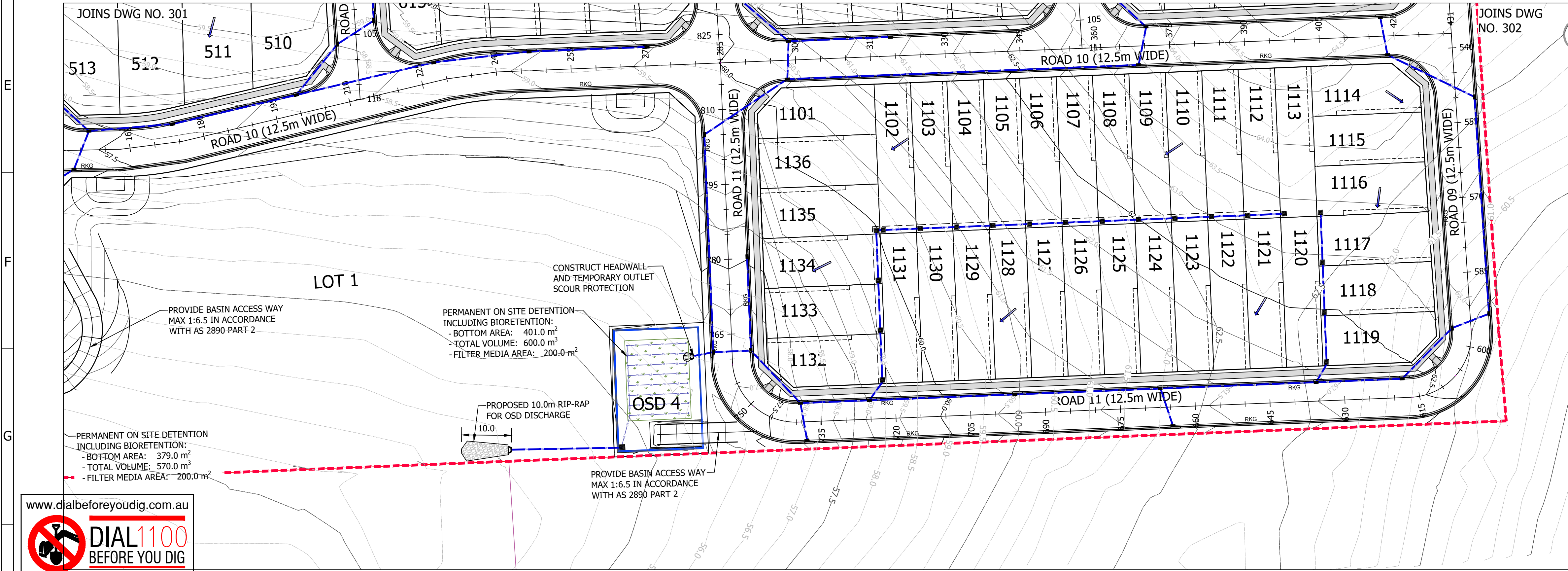
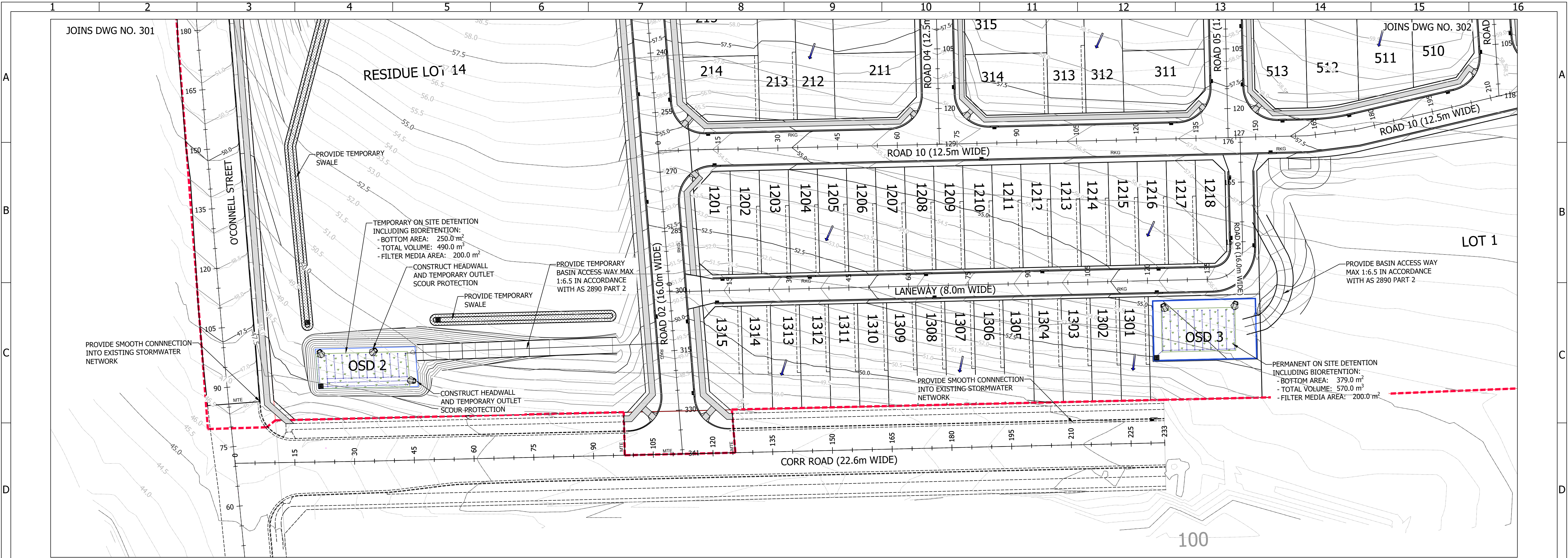
THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.

PROJECT 46 O'CONNELL STREET CADDENS DA ENGINEERING				DRAWING NUMBER 301
STORMWATER DRAINAGE - SHEET 1				
PROJECT REFERENCE P00361	DATE OF ISSUE 06/05/2021	REVISION No. B	SHEET SIZE A1	



 **DIAL 1100**
BEFORE YOU DIG

[illegible]



- LEGEND**
- LIMIT WORKS - CURRENT APPLICATION
 - DESIGN CONTOUR - MAJOR
 - DESIGN CONTOUR - MINOR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED STORMWATER PIPE
 - PROPOSED INTERALLOTMENT STORMWATER PIPE
 - FUTURE STORMWATER PIPE
 - EXISTING STORMWATER PIPE
 - PROPOSED SUBSOIL DRAINAGE PIPE
 - JUNCTION PIT
 - GRATED INLET PIT
 - KERB INLET PIT (ON GRADE)
 - KERB INLET PIT (AT SAG)
 - PIT STRUCTURE NUMBER
 - STORMWATER LINE NUMBER
 - PIPE END CAP
 - PIPE CONTINUATION
 - INDICATIVE OVERLAND FLOW ROUTE
 - CONCRETE HEADWALL
 - RIP RAP
 - SWALE
 - BIO-RETENTION BASIN FILTER MEDIA AREA
 - CONTOUR INTERVAL - 0.5m

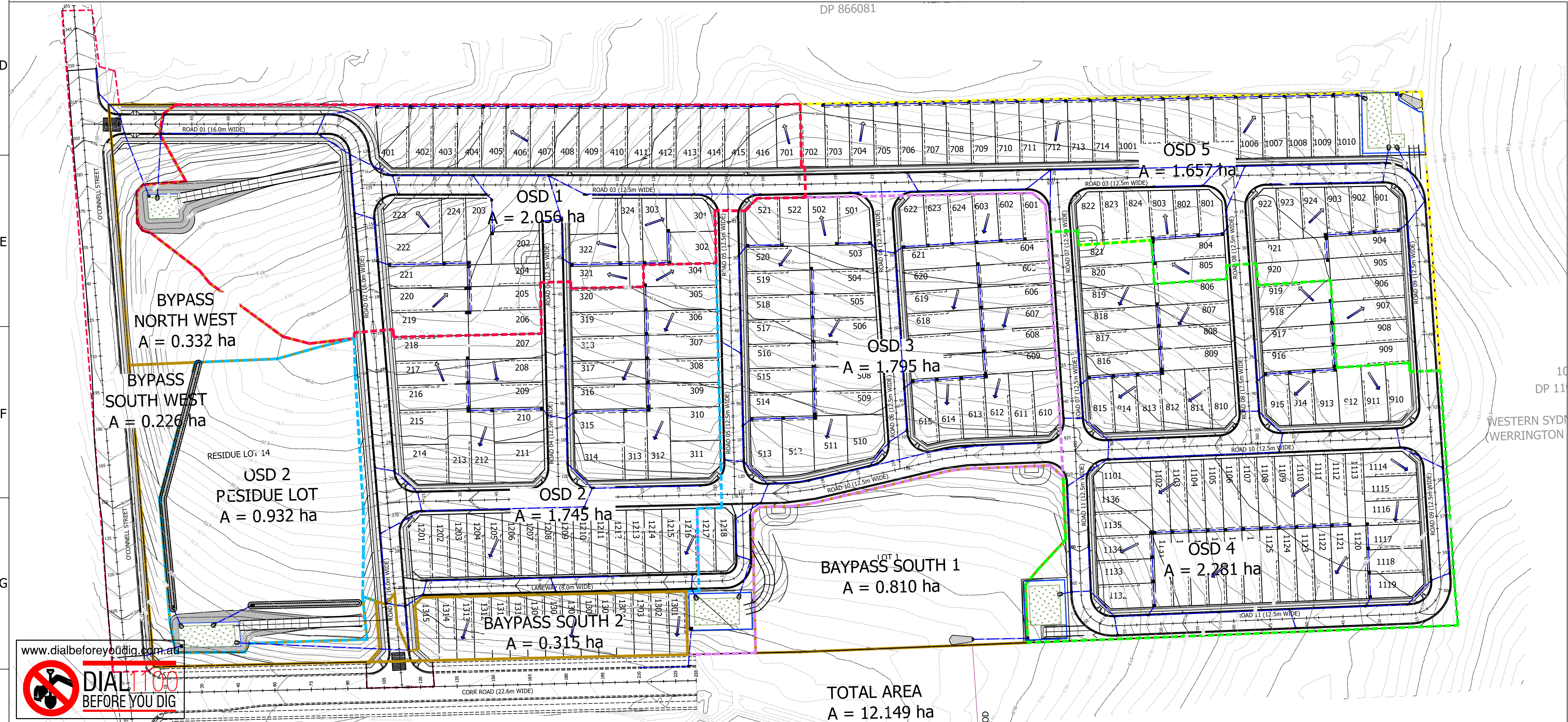
DA SUBMISSION
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 1:500 A1		AHD	PENRITH CITY COUNCIL		GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Email: info@gdsland.com.au www.gdsland.com.au THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	46 O'CONNELL STREET CADDENS DA ENGINEERING	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE ARE SUBJECT TO FINAL SURVEY.	DESIGN	CHECKING	DA No.	DATE		STORMWATER DRAINAGE - SHEET 3	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE		PROJECT REFERENCE	
											DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	



PRE-DEVELOPMENT CATCHMENT PLAN

SCALE 1:2000

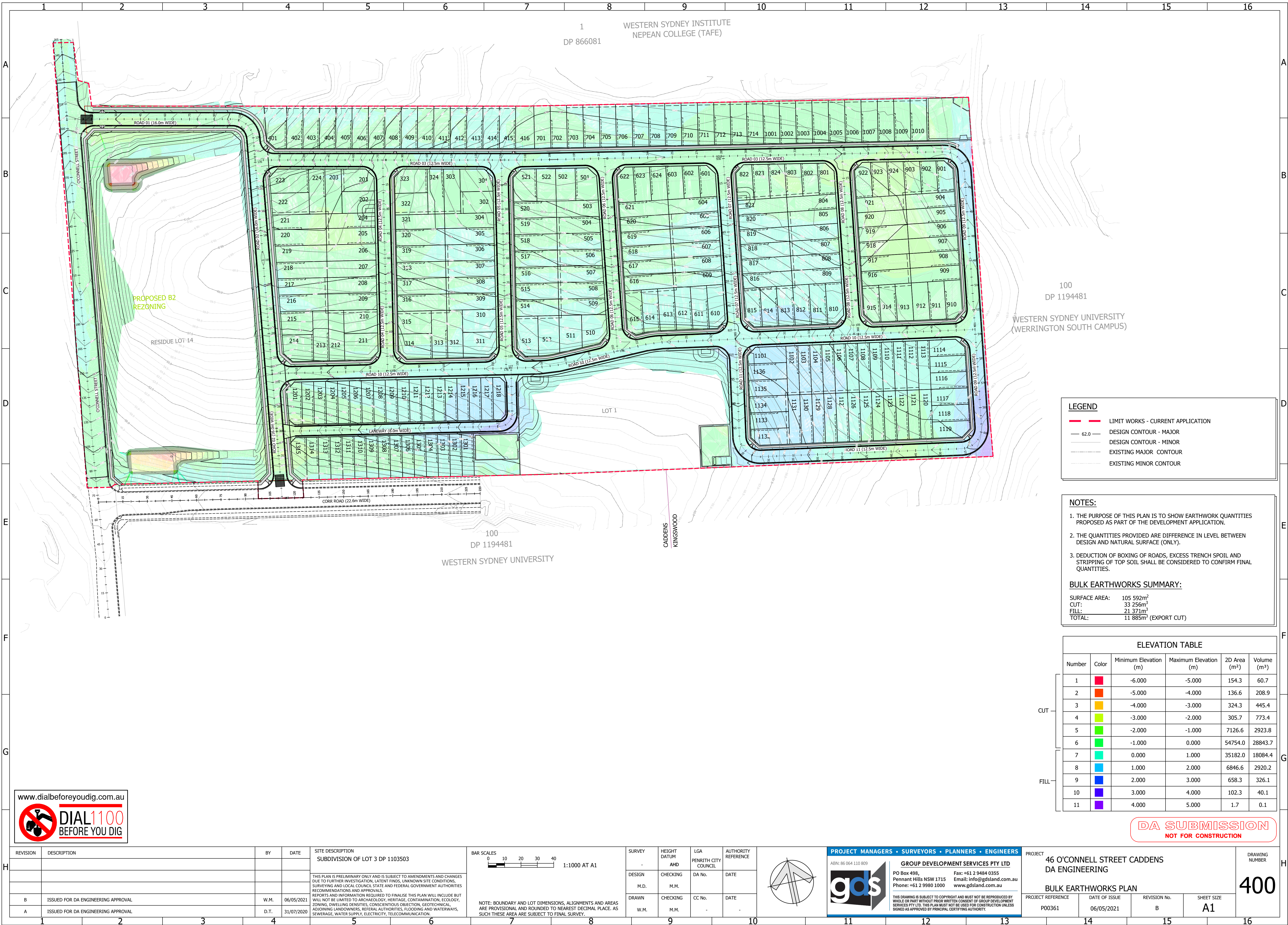


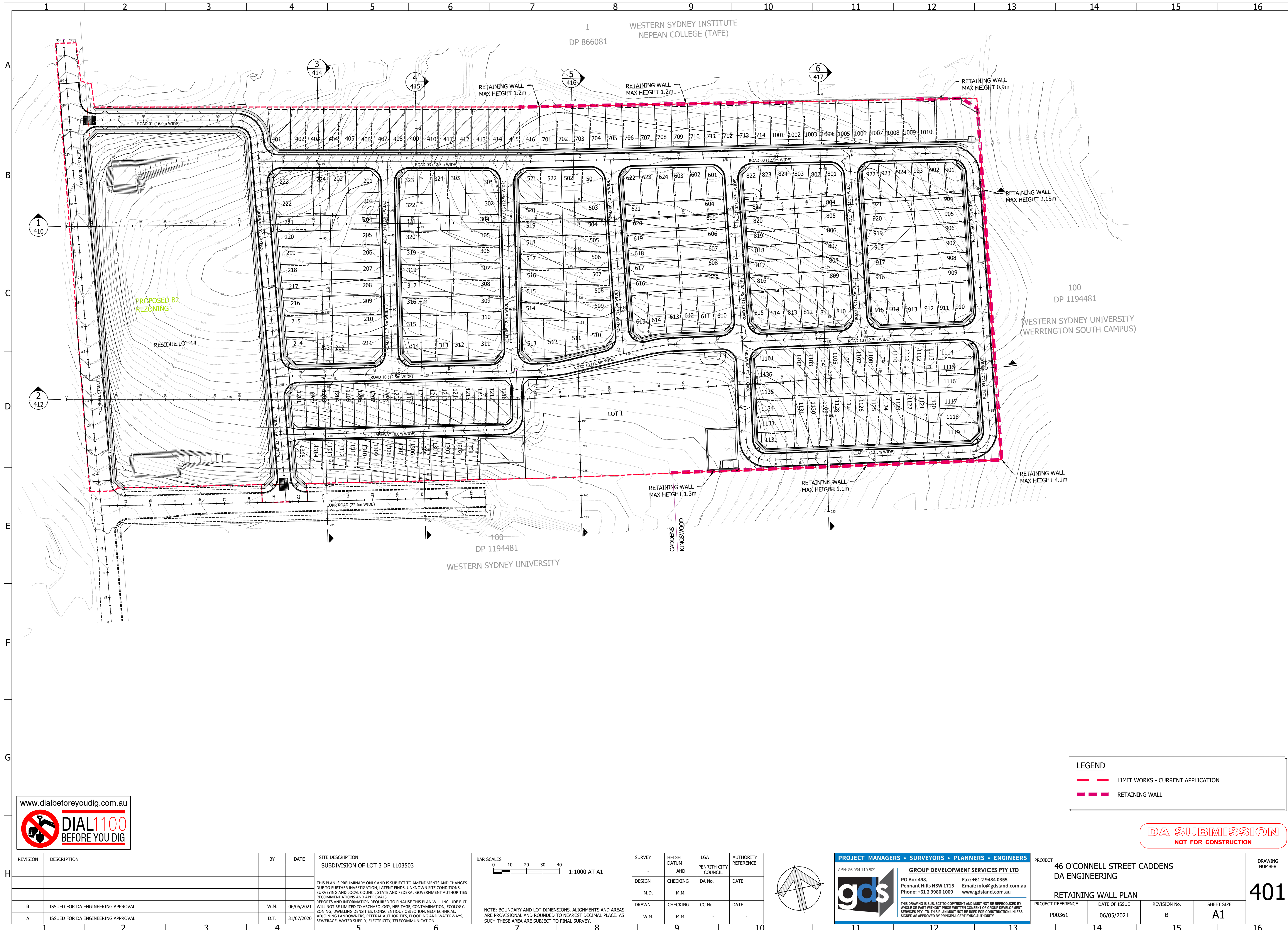
TOTAL AREA
A = 12.149 ha

LEGEND	
	LIMIT WORKS - CURRENT APPLICATION
	DESIGN CONTOUR - MAJOR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	JUNCTION PIT
	GRATED INLET PIT
	KERB INLET PIT (ON GRADE)
	KERB INLET PIT (AT SAG)
	CATCHMENT BOUNDARY OSD 1
	CATCHMENT BOUNDARY OSD 2
	CATCHMENT BOUNDARY OSD 3
	CATCHMENT BOUNDARY OSD 4
	CATCHMENT BOUNDARY OSD 5
	CATCHMENT BOUNDARY BYPASS
	CONTOUR INTERVAL - 0.5m

DA SUBMISSION
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 50 100 1:2000 AT A1 0 10 20 30 40 1:1000 AT A1	DESIGN	AHD	PENRITH CITY COUNCIL	DATE	ABN: 86 064 110 809 GDS GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	46 O'CONNELL STREET CADDENS DA ENGINEERING	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.		M.D.	M.M.	DA No.	DATE		STORMWATER DRAINAGE CATCHMENT PLAN	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020	REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADDITIONAL LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		W.M.	M.M.	CC No.	DATE		PROJECT REFERENCE	
											DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	

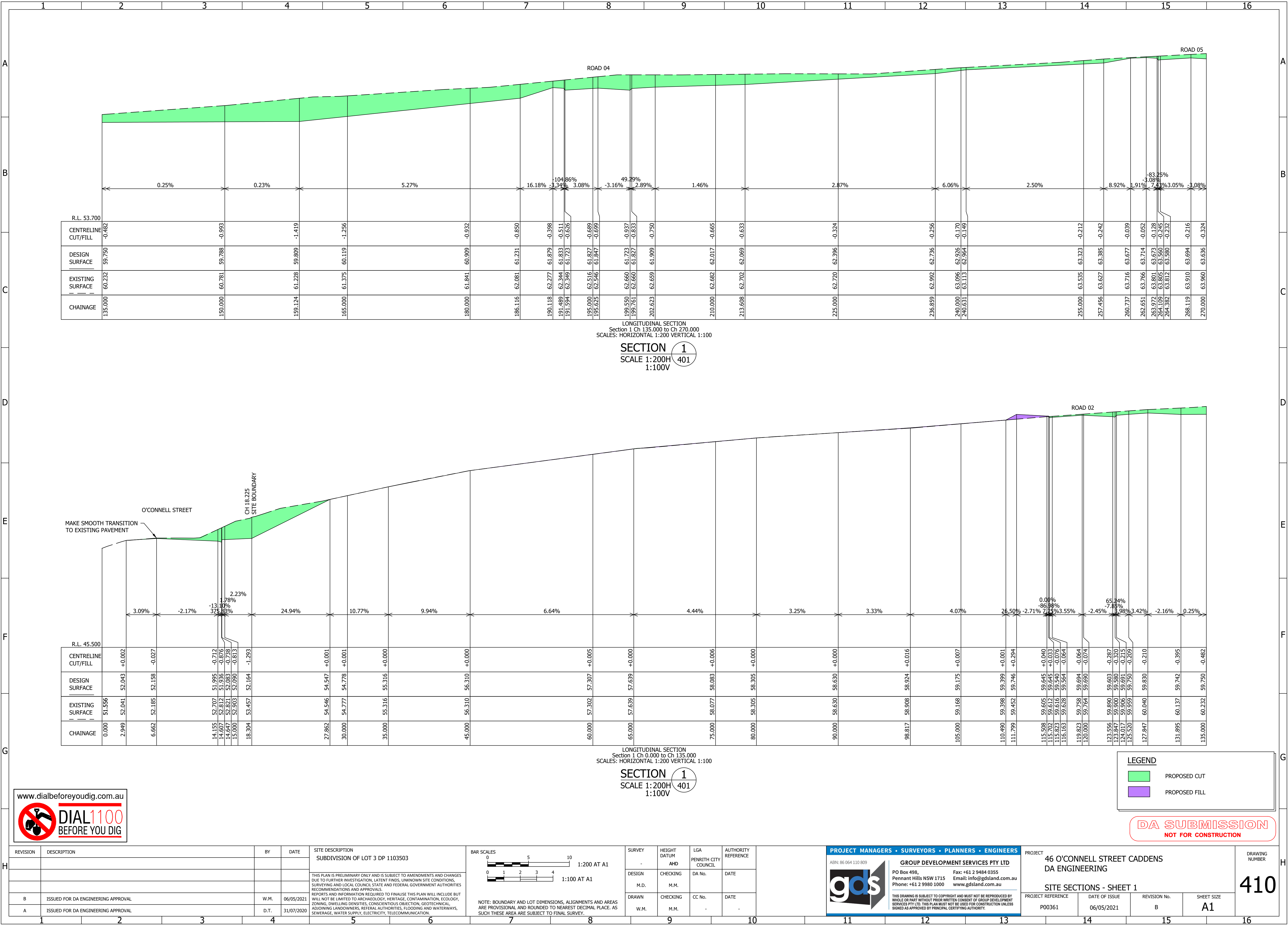


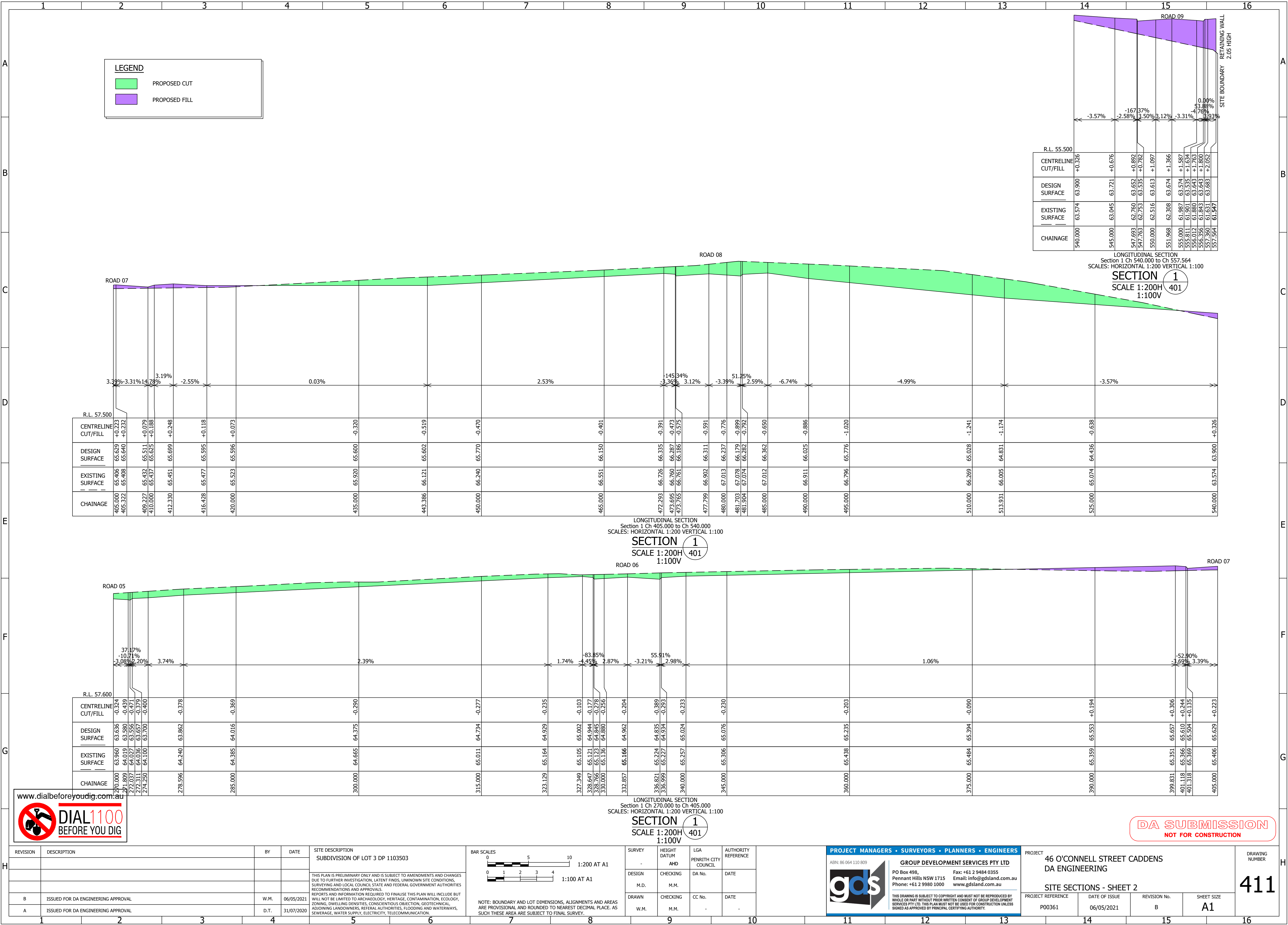


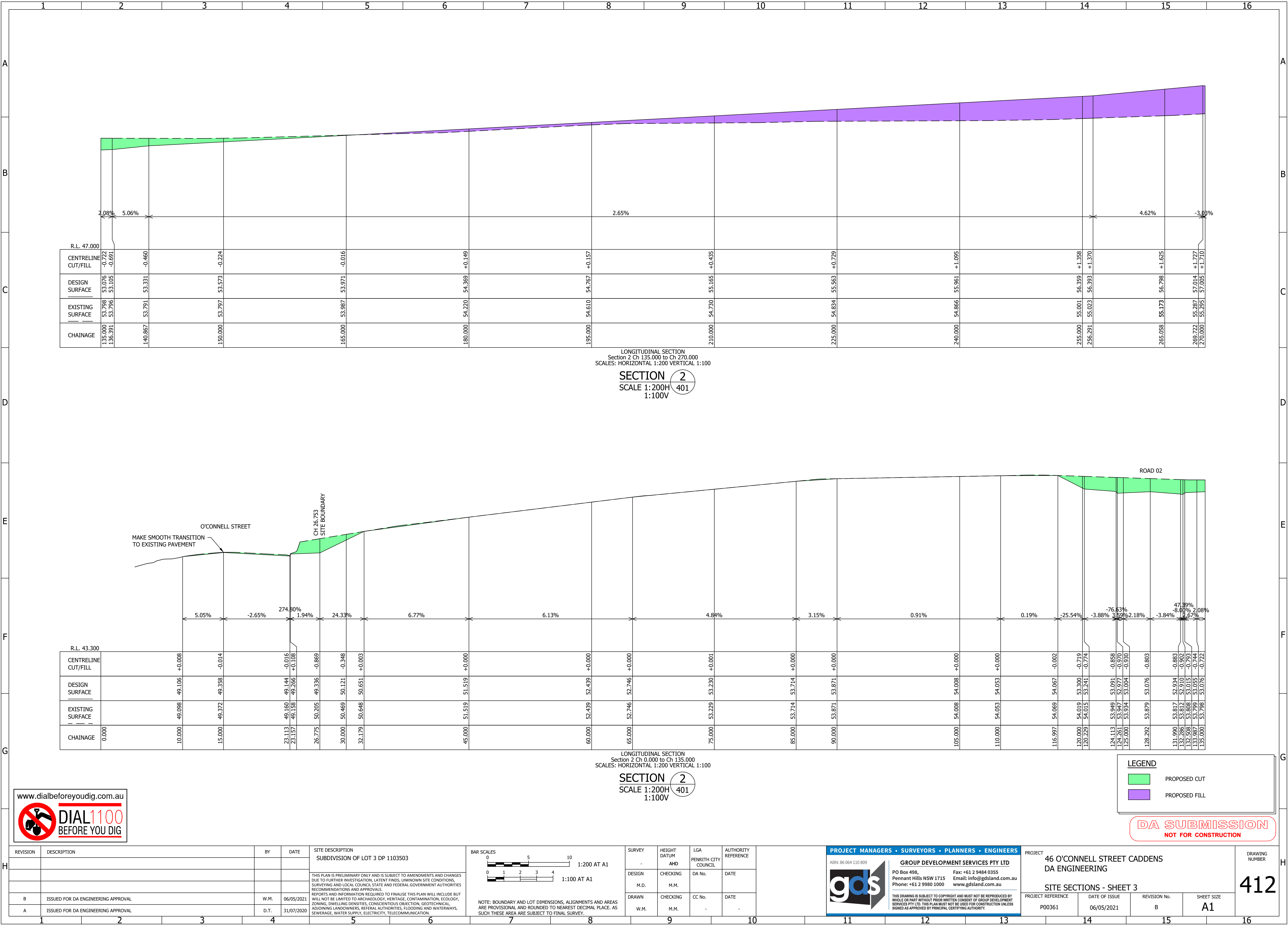
LEGEND	
	LIMIT WORKS - CURRENT APPLICATION
	RETAINING WALL

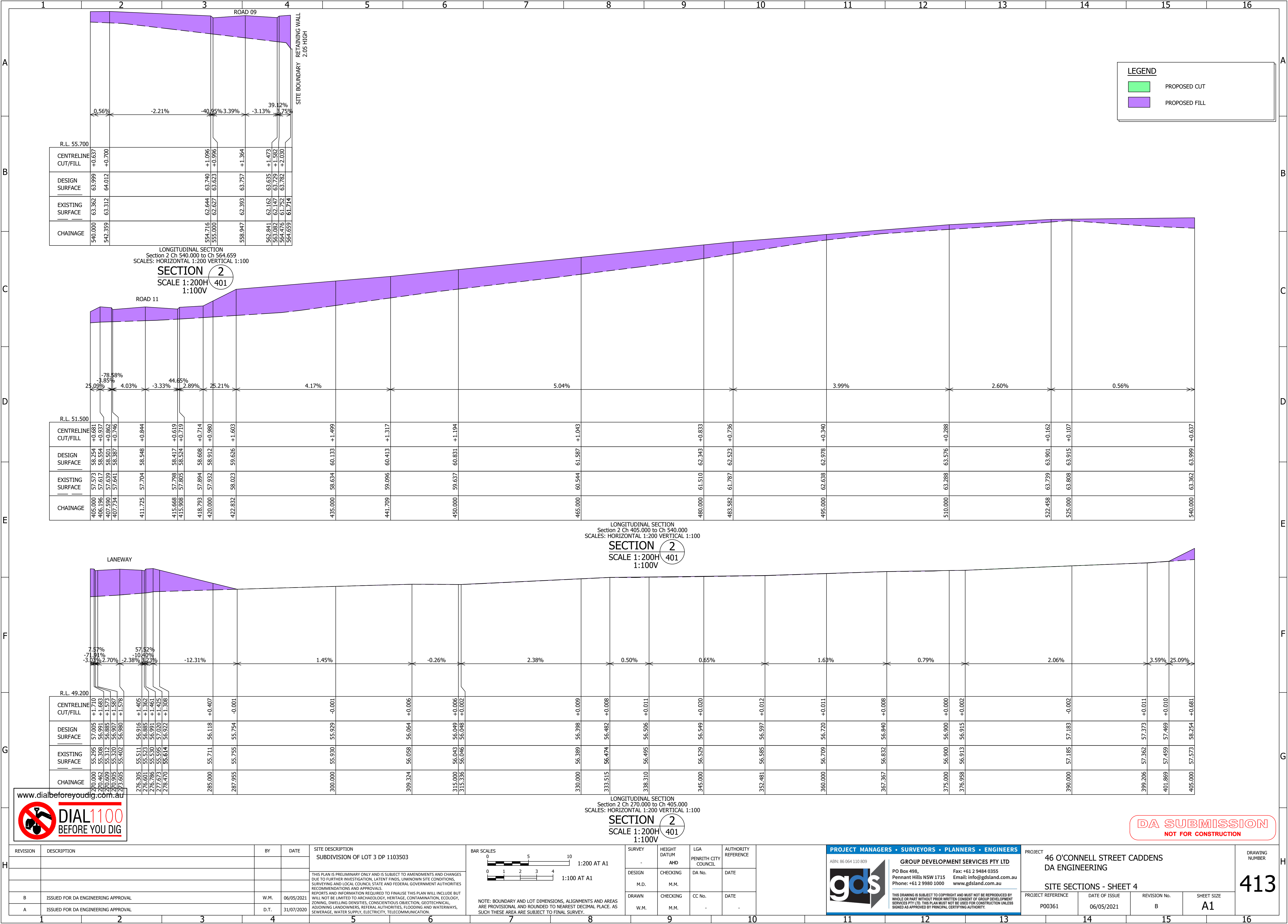
DA SUBMISSION
NOT FOR CONSTRUCTION

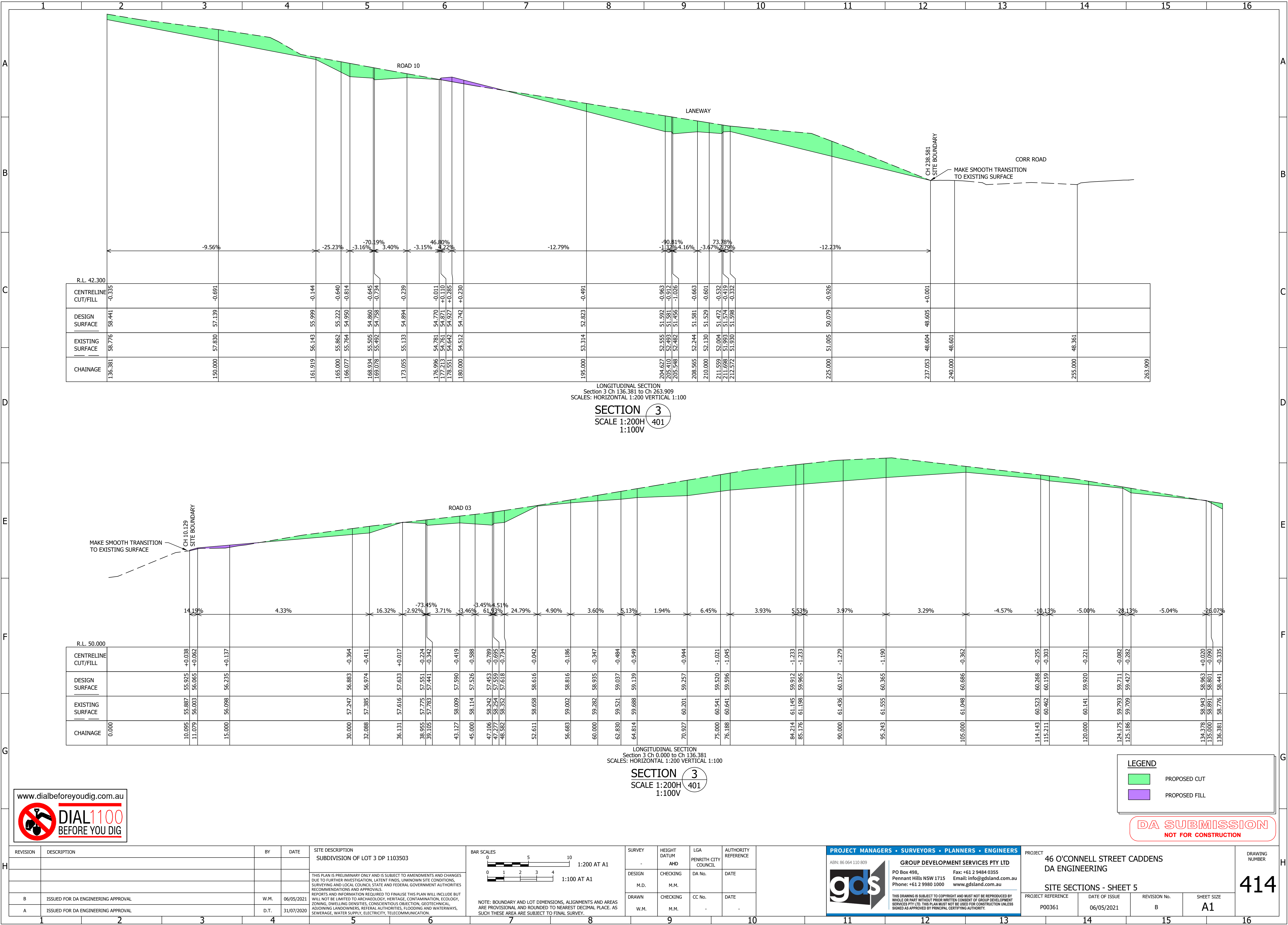
REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 30 40 1:1000 AT A1		AHD	PENRITH CITY COUNCIL		ABN: 86 064 110 809 gds PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	46 O'CONNELL STREET CADDENS DA ENGINEERING	401
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREAS ARE SUBJECT TO FINAL SURVEY.	DESIGN	CHECKING	DA No.	DATE		RETAINING WALL PLAN	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE		PROJECT REFERENCE	
											DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	

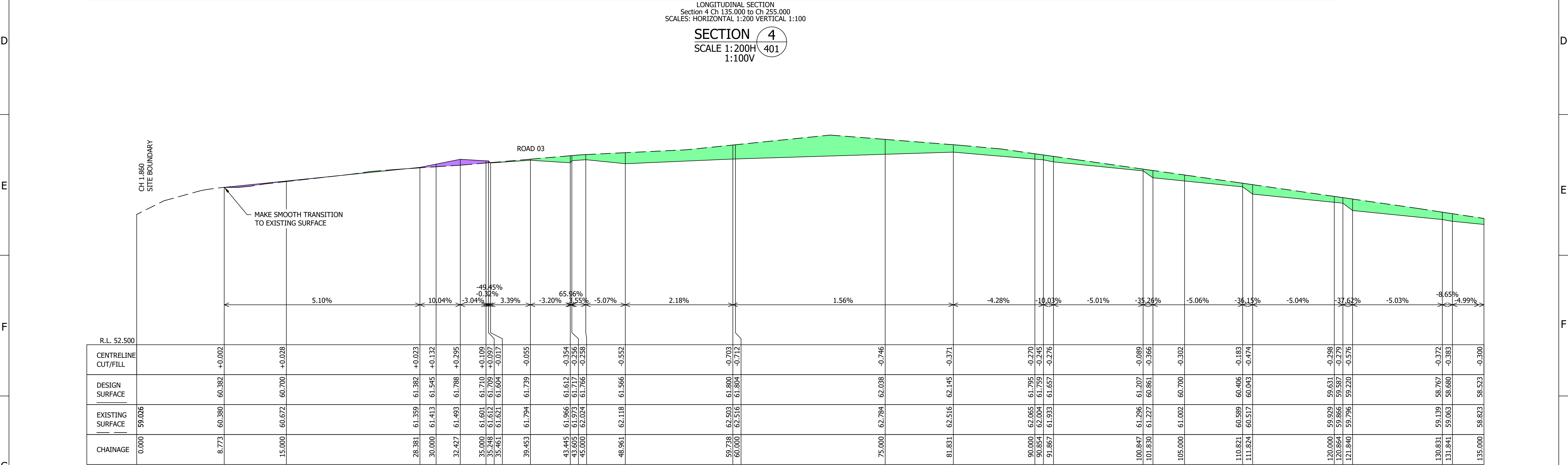
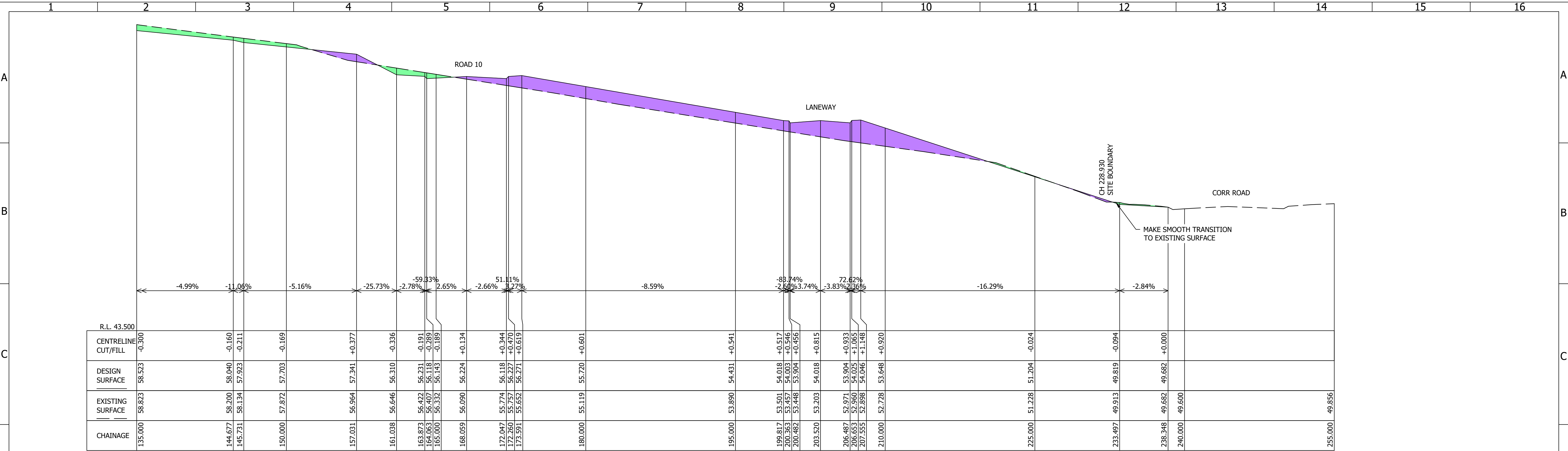












www.dialbeforeyoudig.com.au

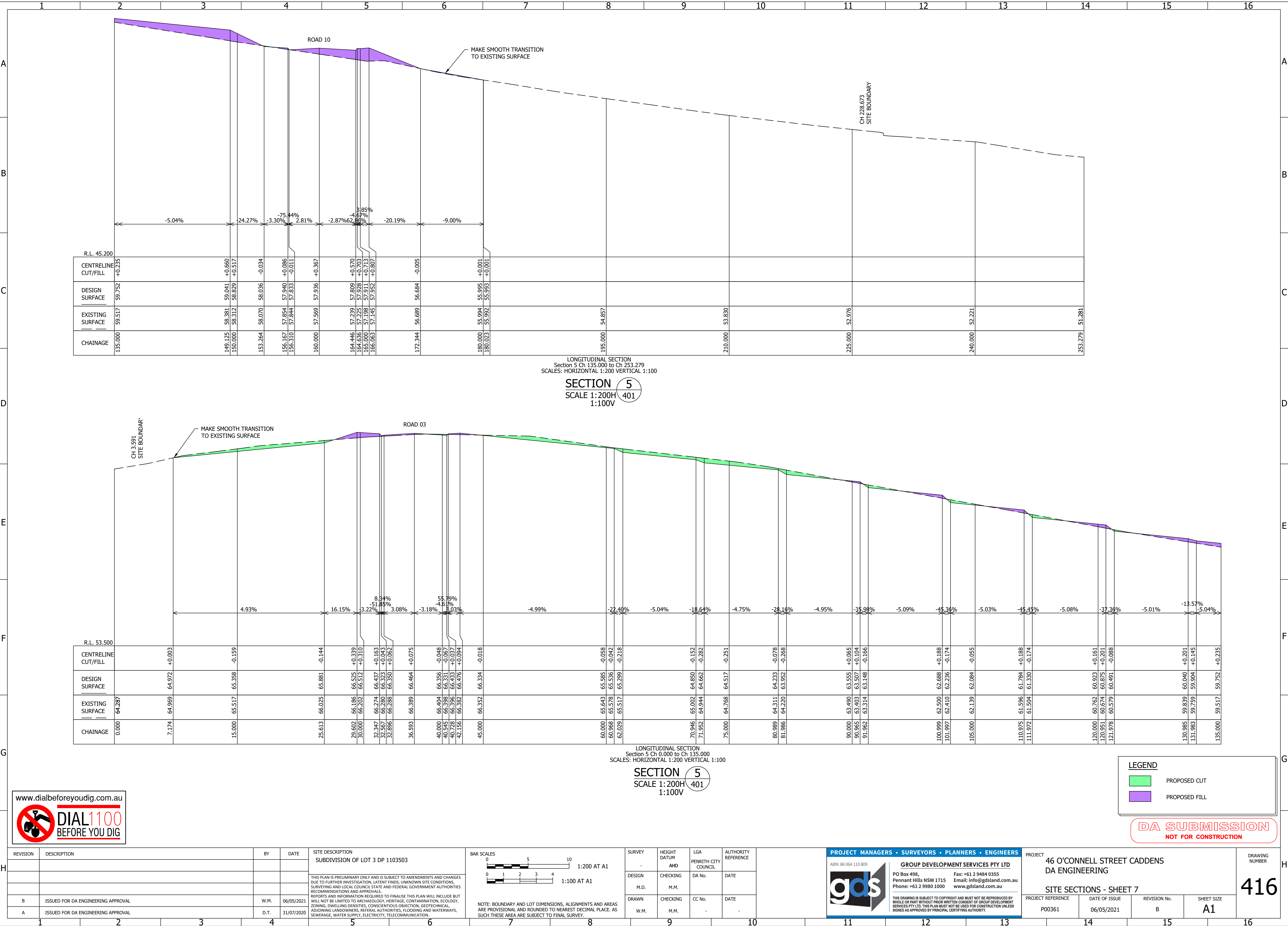
LEGEND

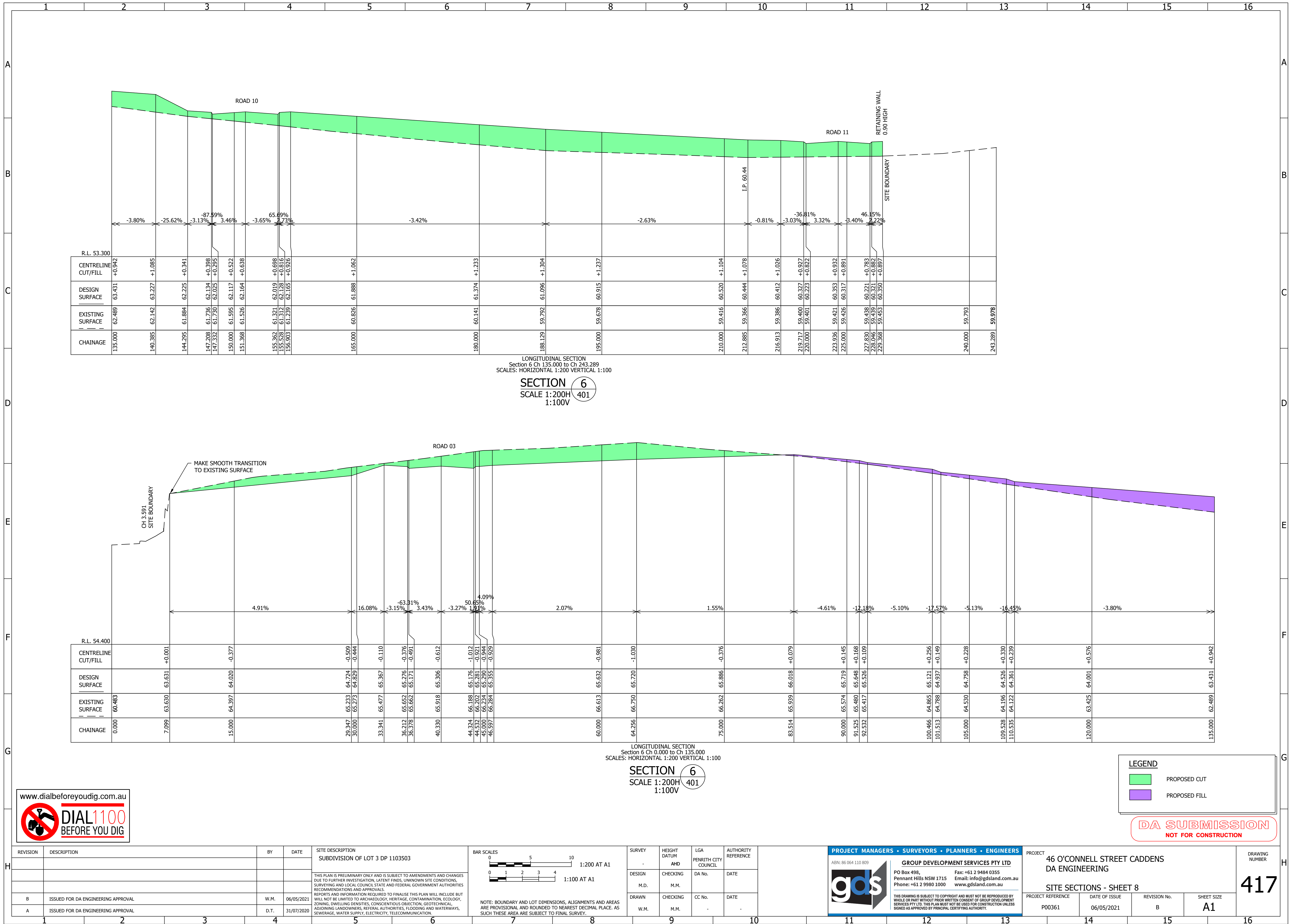
- PROPOSED CUT
- PROPOSED FILL

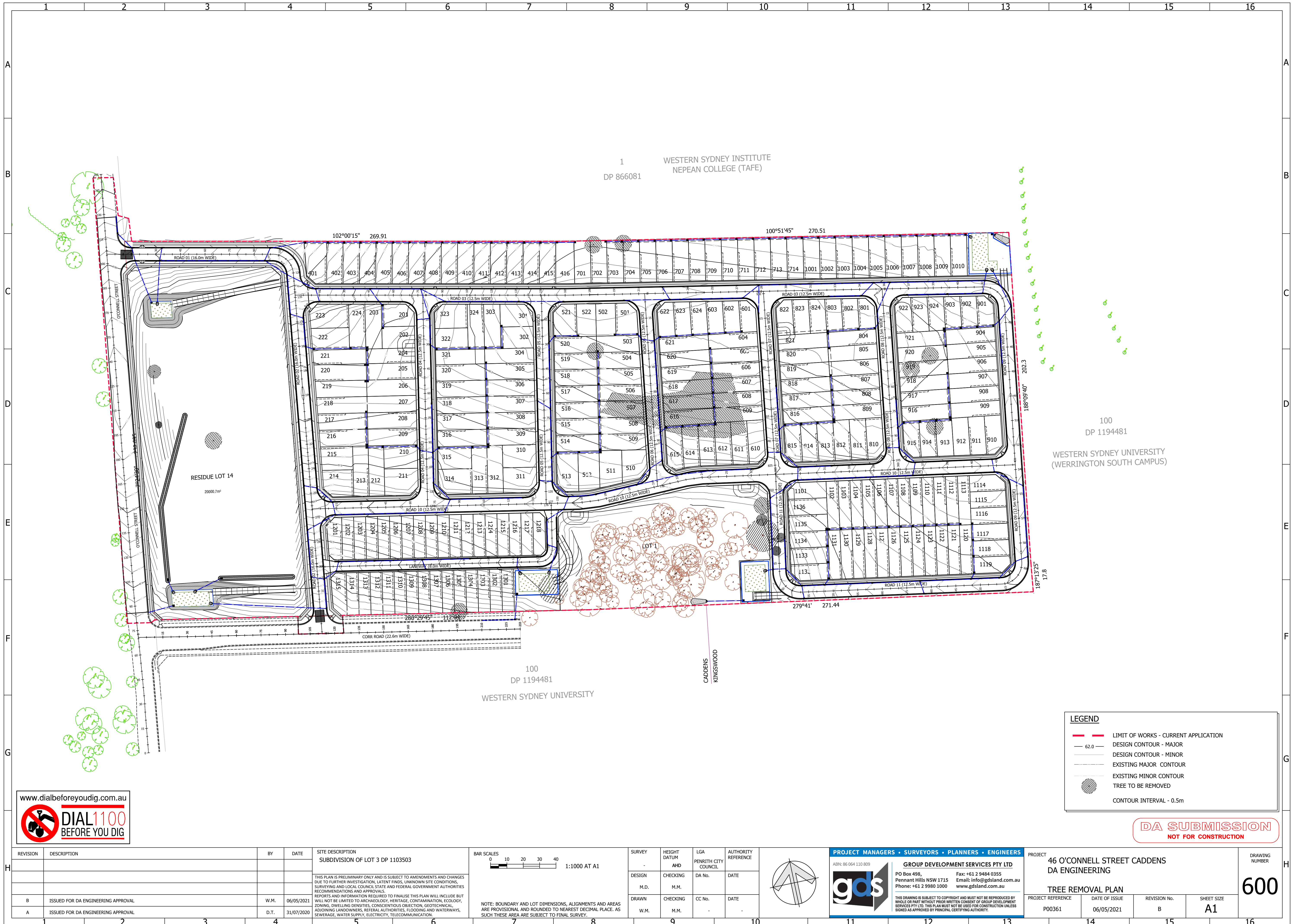
DA SUBMISSION

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 5 10 1:200 AT A1 0 1 2 3 4 1:100 AT A1	-	AHD	PENRITH CITY COUNCIL		ABN: 86 064 110 809 GDS GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	46 O'CONNELL STREET CADDENS DA ENGINEERING	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		DESIGN	CHECKING	DA No.	DATE		SITE SECTIONS - SHEET 6	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE		PROJECT REFERENCE	
						W.M.	M.M.	-	-		DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	







LEGEND

LIMIT OF WORKS - CURRENT APPLICATION

DESIGN CONTOUR - MAJOR

DESIGN CONTOUR - MINOR

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

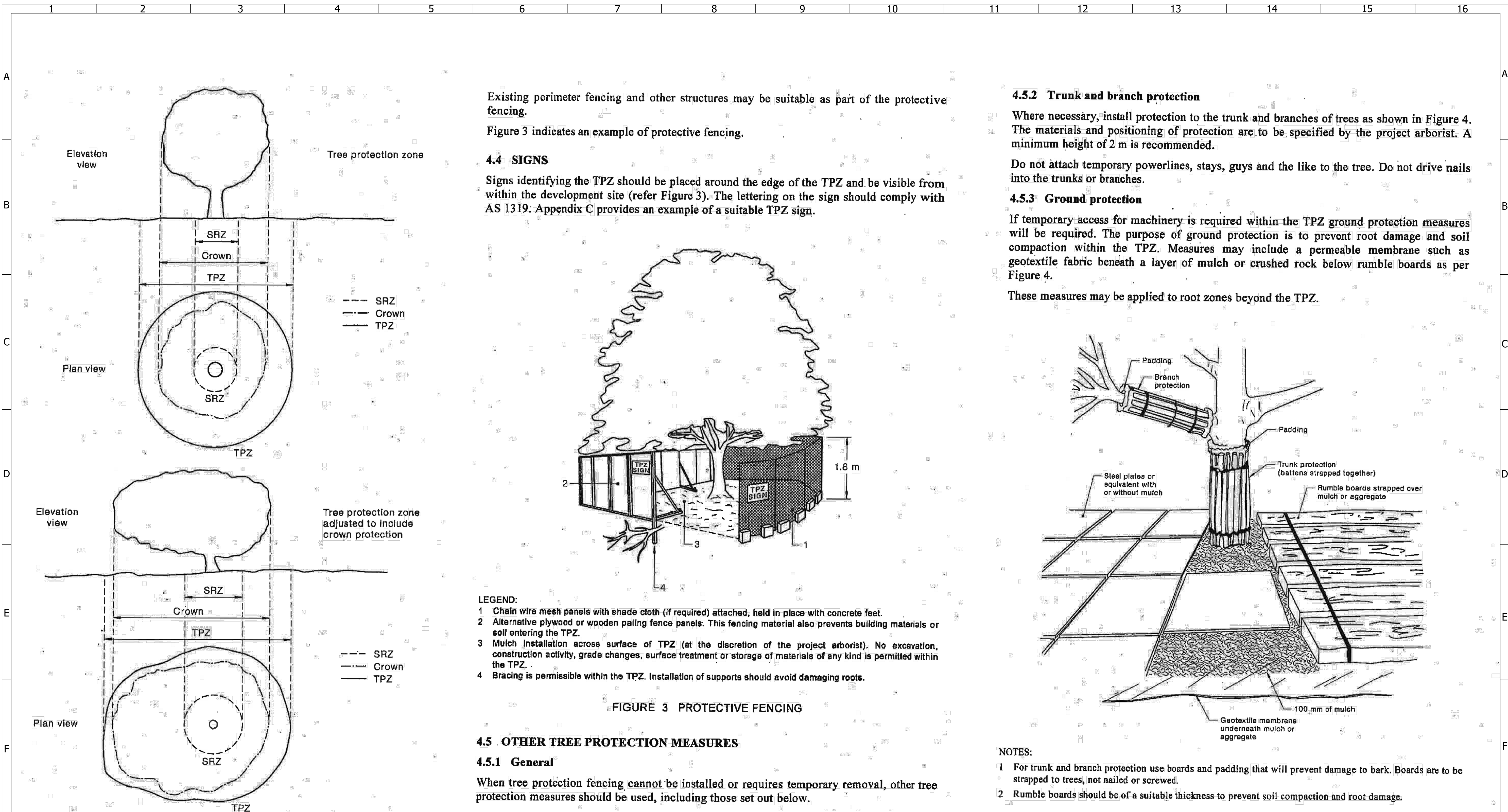
TREE TO BE REMOVED

CONTOUR INTERVAL - 0.5m

DA SUBMISSION

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 30 40 1:1000 AT A1		AHD	PENRITH CITY COUNCIL		ABN: 86 064 110 809 GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	46 O'CONNELL STREET CADDENS DA ENGINEERING	
				THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.		DESIGN	CHECKING	DA No.	DATE		TREE REMOVAL PLAN	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.			CC No.	DATE		PROJECT REFERENCE	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING				DATE OF ISSUE	
						W.M.	M.M.				REVISION No.	
											SHEET SIZE	
												600



4.5.2 Trunk and branch protection

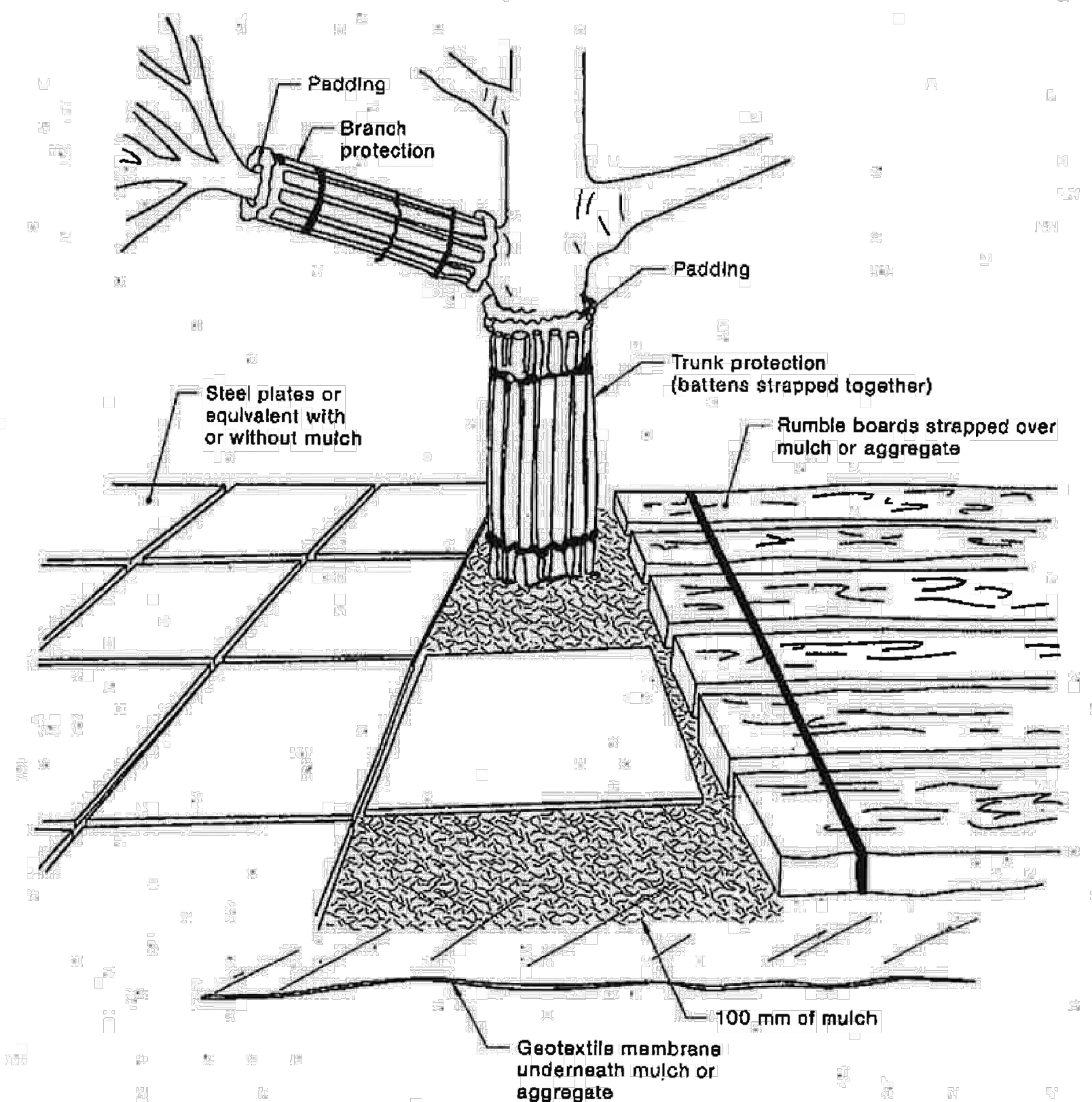
Where necessary, install protection to the trunk and branches of trees as shown in Figure 4. The materials and positioning of protection are to be specified by the project arborist. A minimum height of 2 m is recommended.

Do not attach temporary powerlines, stays, guys and the like to the tree. Do not drive nails into the trunks or branches.

4.5.3 Ground protection

If temporary access for machinery is required within the TPZ ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Measures may include a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rock below rumble boards as per Figure 4.

These measures may be applied to root zones beyond the TPZ.



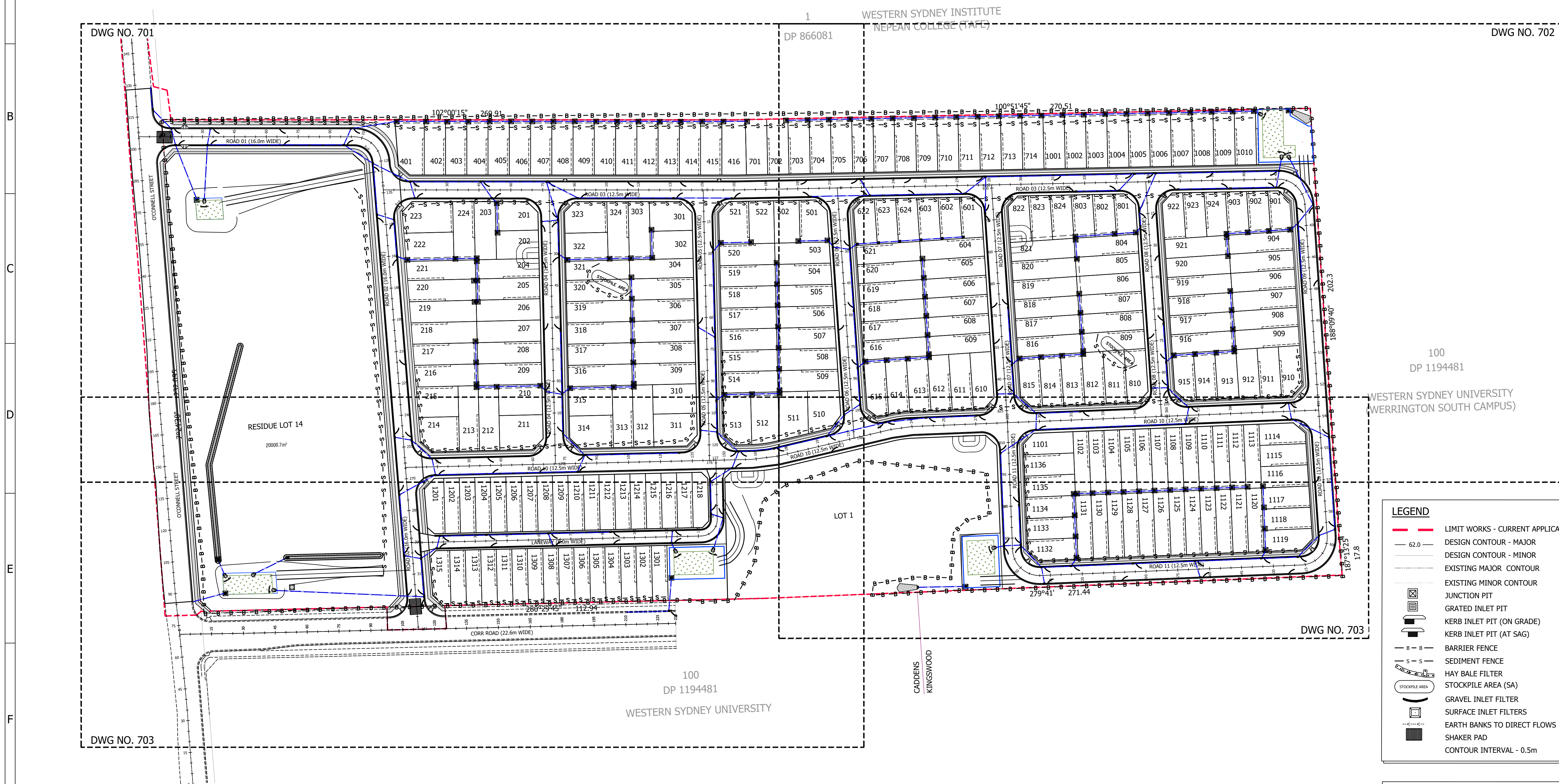
NOTES:

- For trunk and branch protection use boards and padding that will prevent damage to bark. Boards are to be strapped to trees, not nailed or screwed.
- Rumble boards should be of a suitable thickness to prevent soil compaction and root damage.

FIGURE 4 EXAMPLES OF TRUNK, BRANCH AND GROUND PROTECTION



REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION SUBDIVISION OF LOT 3 DP 1103503	BAR SCALES	SURVEY	HEIGHT DATUM AHD	LGA PENRITH CITY COUNCIL	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS. REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.	DESIGN	CHECKING	DA No.	DATE	gds GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9980 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	46 O'CONNELL STREET CADDENS DA ENGINEERING	601
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE	THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	TREE PROTECTION DETAILS	
											PROJECT REFERENCE	
											DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	



LEGEND

— 62.0 —

LIMIT WORKS - CURRENT APPLICATION

DESIGN CONTOUR - MAJOR

DESIGN CONTOUR - MINOR

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

JUNCTION PIT

GRATED INLET PIT

KERB INLET PIT (ON GRADE)

KERB INLET PIT (AT SAG)

— B — B —

BARRIER FENCE

— S — S —

SEDIMENT FENCE

HAY BALE FILTER

STOCKPILE AREA (SA)

GRAVEL INLET FILTER

SURFACE INLET FILTERS

EARTH BANKS TO DIRECT FLOWS

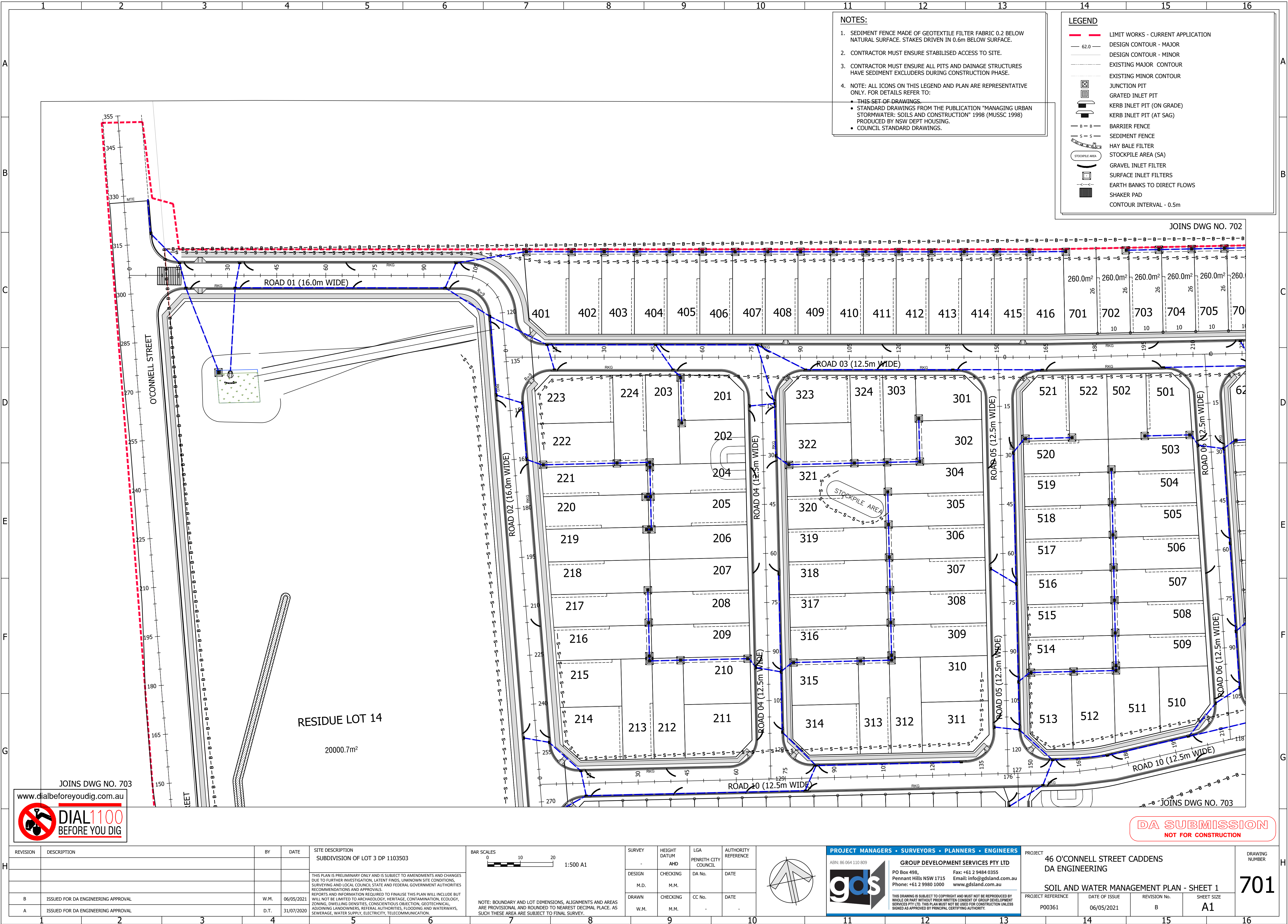
SHAKER PAD

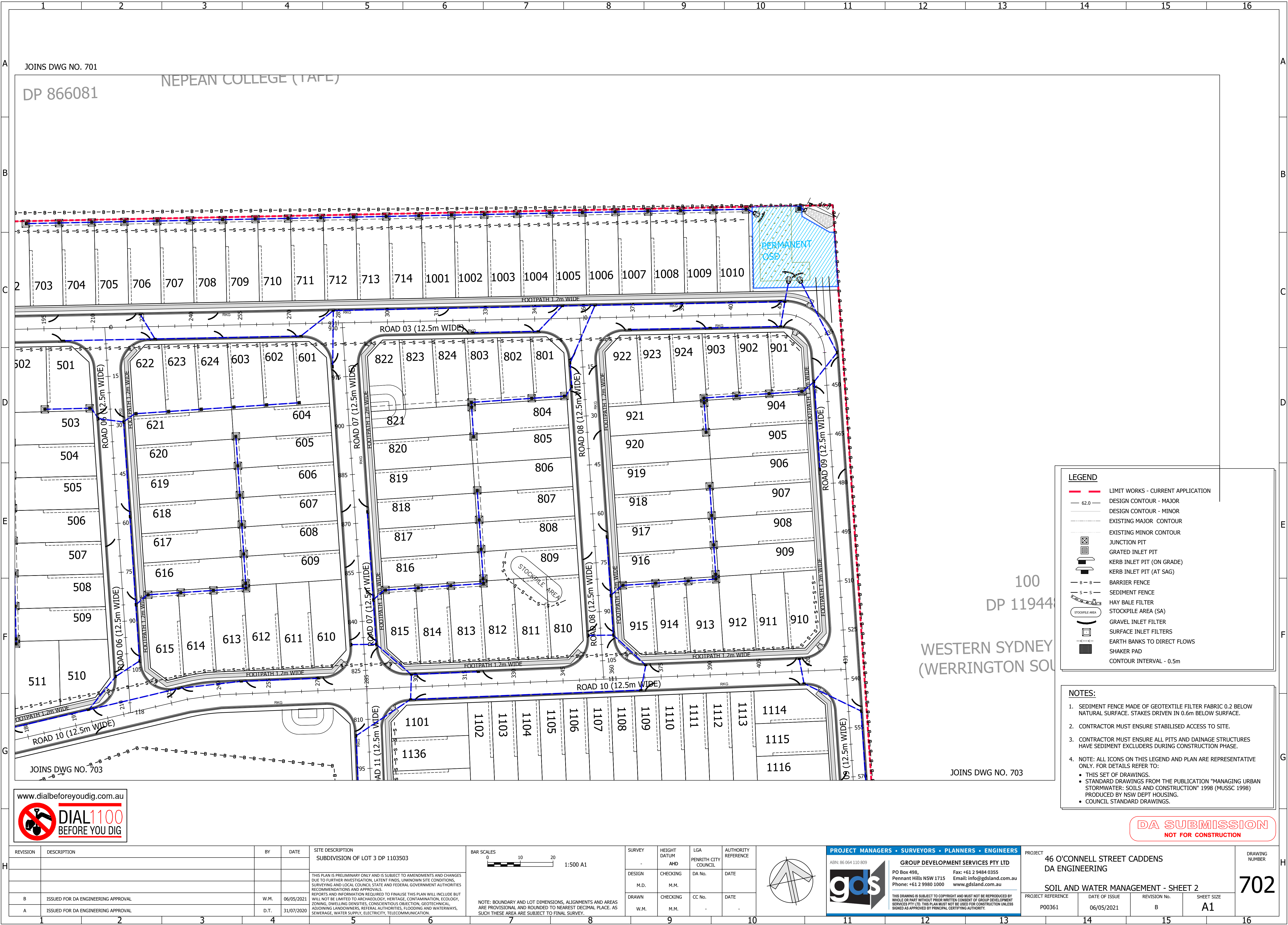
CONTOUR INTERVAL - 0.5m

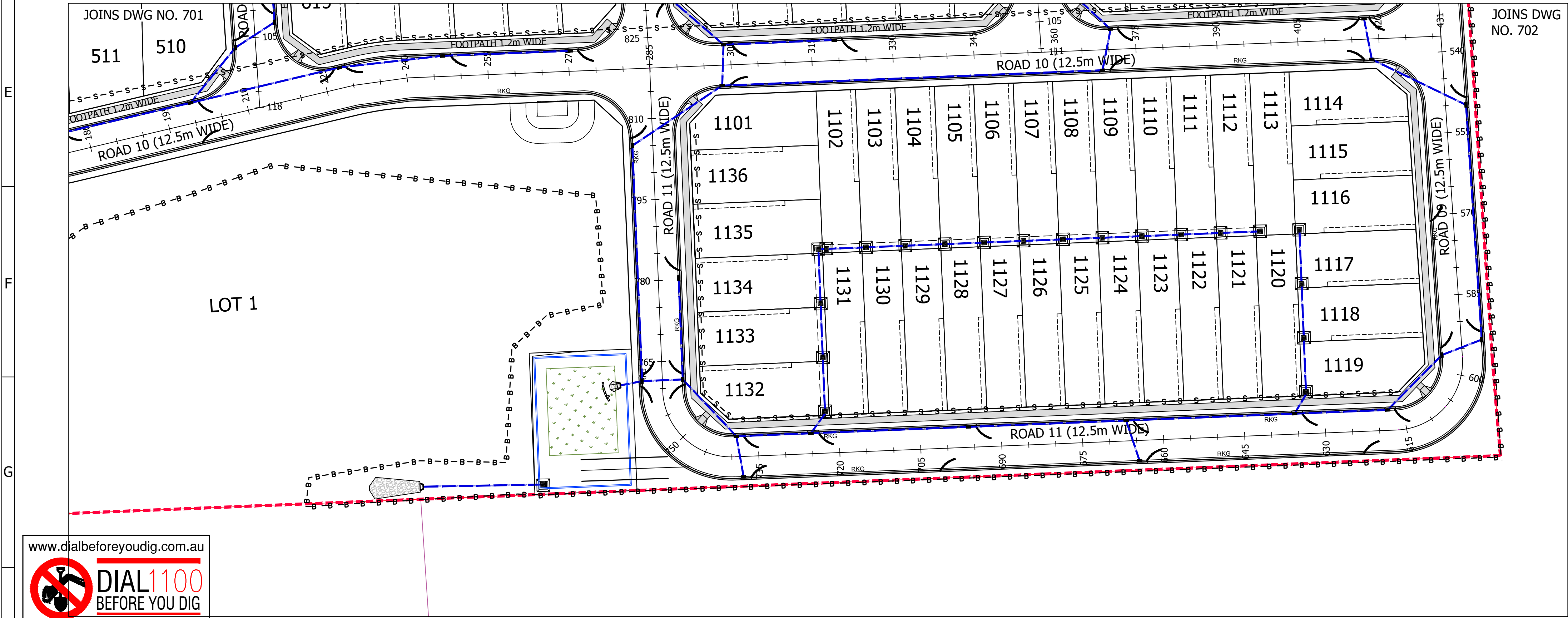
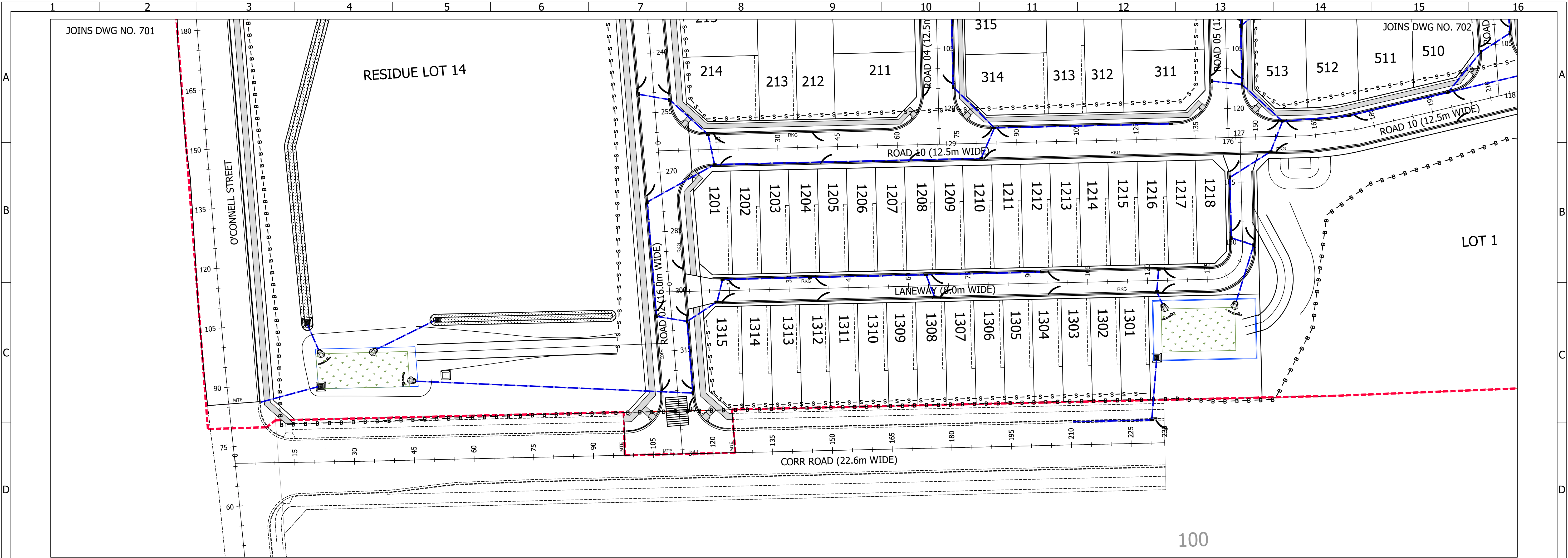
- ## NOTES:
1. SEDIMENT FENCE MADE OF GEOTEXTILE FILTER FABRIC 0.2 BELOW NATURAL SURFACE. STAKES DRIVEN IN 0.6m BELOW SURFACE.
 2. CONTRACTOR MUST ENSURE STABILISED ACCESS TO SITE.
 3. CONTRACTOR MUST ENSURE ALL PITTS AND DRAINAGE STRUCTURES HAVE SEDIMENT EXCLUDERS DURING CONSTRUCTION PHASE.
 4. NOTE: ALL ICONS ON THIS LEGEND AND PLAN ARE REPRESENTATIVE ONLY. FOR DETAILS REFER TO:
 - THIS SET OF DRAWINGS.
 - STANDARD DRAWINGS FROM THE PUBLICATION "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION" 1998 (MUSSC 1998)
 - PRODUCED BY NSW DEPT HOUSING.
 - COUNCIL STANDARD DRAWINGS.



H	REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION SUBDIVISION OF LOT 3 DP 1103503	BAR SCALES 010203040 1:1000 AT A1	SURVEY -	HEIGHT DATUM AHD	LGA PENRITH CITY COUNCIL	AUTHORITY REFERENCE		PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS ABN: 86 064 110 809 gds PO Box 498, Penrith Hills NSW 1715 Phone: +61 2 9980 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.	PROJECT 46 O'CONNELL STREET CADDENS DA ENGINEERING	DRAWING NUMBER 700		
					THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL, COUNCIL, STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.		DESIGN	CHECKING	DA No.	DATE						
	B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOCLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJACING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE AREA ARE SUBJECT TO FINAL SURVEY.	M.D.	M.M.								
	A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020			DRAWN	CHECKING	CC No.	DATE			W.M.		M.M.	-







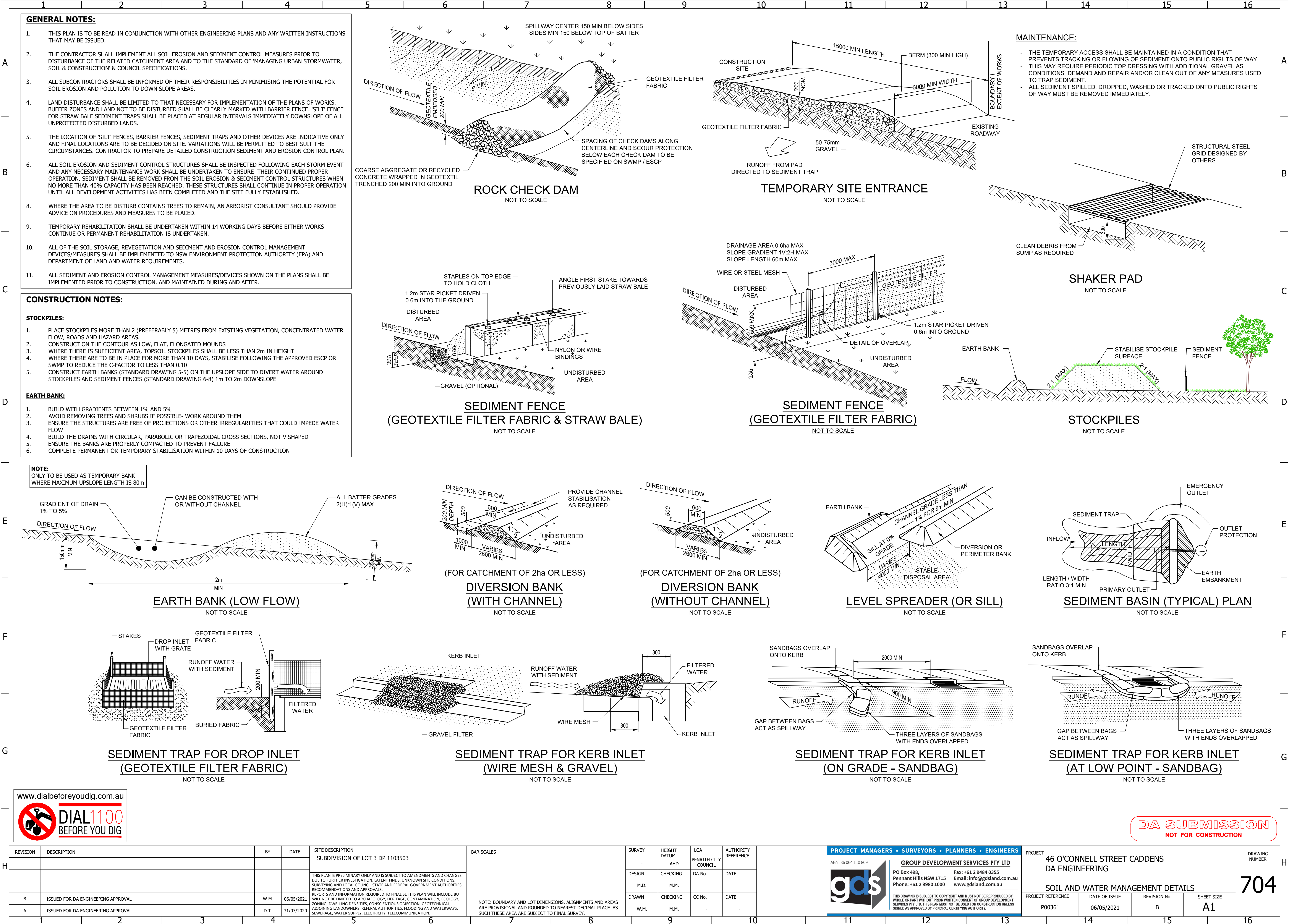
LEGEND

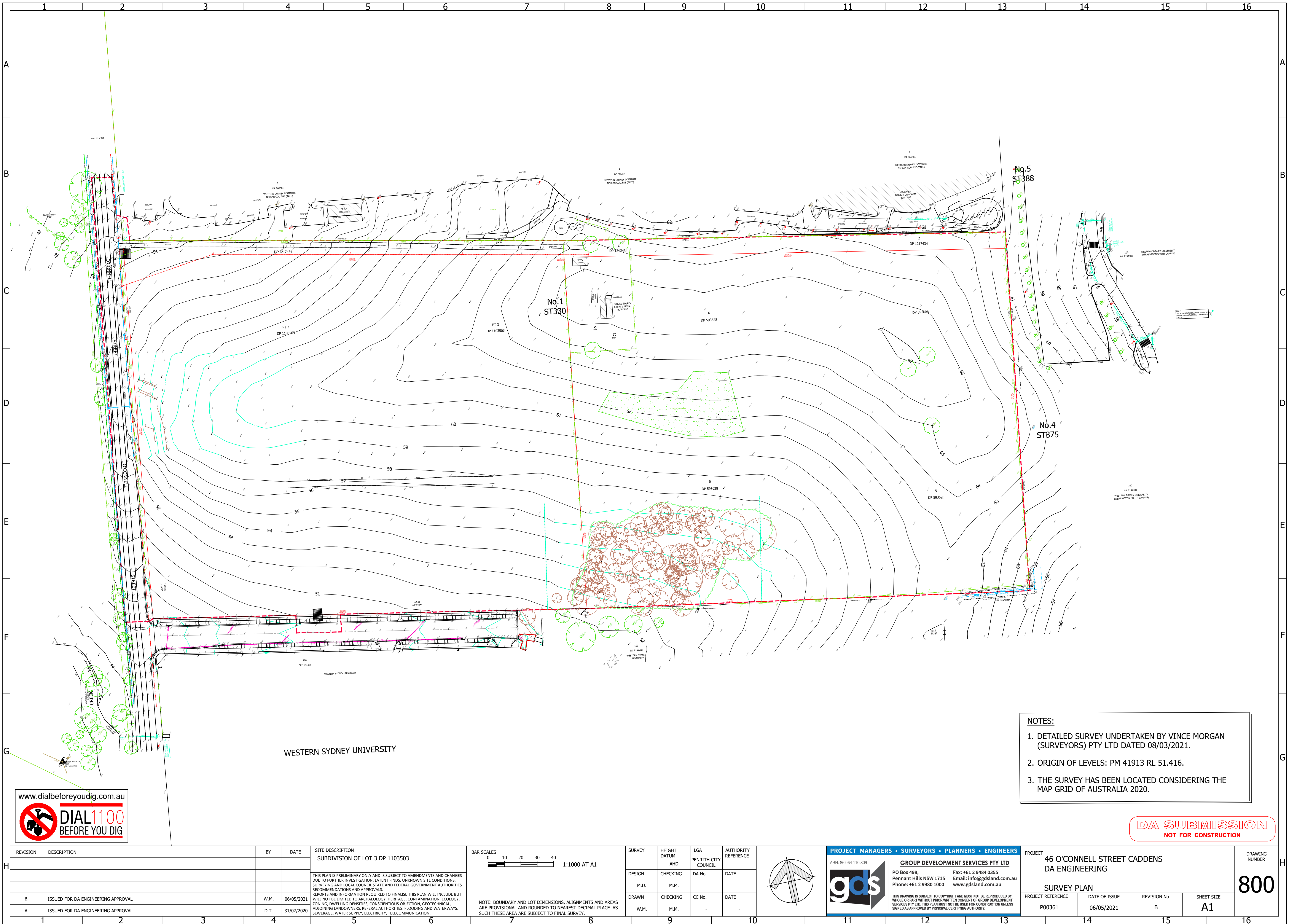
- LIMIT WORKS - CURRENT APPLICATION
- 62.0 — DESIGN CONTOUR - MAJOR
- — DESIGN CONTOUR - MINOR
- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- ☒ JUNCTION PIT
- ▢ GRATED INLET PIT
- ▣ KERB INLET PIT (ON GRADE)
- ▤ KERB INLET PIT (AT SAG)
- - - BARRIER FENCE
- - - SEDIMENT FENCE
- - - HAY BALE FILTER
- STOCKPILE AREA (SA)
- GRAVEL INLET FILTER
- SURFACE INLET FILTERS
- EARTH BANKS TO DIRECT FLOWS
- SHAKER PAD
- CONTOUR INTERVAL - 0.5m

NOTES:

- SEDIMENT FENCE MADE OF GEOTEXTILE FILTER FABRIC 0.2 BELOW NATURAL SURFACE. STAKES DRIVEN IN 0.6m BELOW SURFACE.
- CONTRACTOR MUST ENSURE STABILISED ACCESS TO SITE.
- CONTRACTOR MUST ENSURE ALL PITS AND DRAINAGE STRUCTURES HAVE SEDIMENT EXCLUDERS DURING CONSTRUCTION PHASE.
- NOTE: ALL ICONS ON THIS LEGEND AND PLAN ARE REPRESENTATIVE ONLY. FOR DETAILS REFER TO:
 - THIS SET OF DRAWINGS.
 - STANDARD DRAWINGS FROM THE PUBLICATION "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION" 1998 (MUSSC 1998)
 - PRODUCED BY NSW DEPT HOUSING.
 - COUNCIL STANDARD DRAWINGS.

REVISION	DESCRIPTION	BY	DATE	SITE DESCRIPTION	BAR SCALES	SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE	PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS	PROJECT	DRAWING NUMBER
				SUBDIVISION OF LOT 3 DP 1103503	0 10 20 1:500 A1		AHD	PENRITH CITY COUNCIL		GROUP DEVELOPMENT SERVICES PTY LTD PO Box 498, Pennant Hills NSW 1715 Phone: +61 2 9580 1000 Fax: +61 2 9484 0355 Email: info@gdsland.com.au www.gdsland.com.au	46 O'CONNELL STREET CADDENS DA ENGINEERING	
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021	THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.	NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE ARE SUBJECT TO FINAL SURVEY.	DESIGN	CHECKING	DA No.	DATE		SOIL AND WATER MANAGEMENT - SHEET 3	
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020	REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.		DRAWN	CHECKING	CC No.	DATE		PROJECT REFERENCE	
						W.M.	M.M.	-	-		DATE OF ISSUE	
											REVISION No.	
											SHEET SIZE	





- NOTES:
1. DETAILED SURVEY UNDERTAKEN BY VINCE MORGAN (SURVEYORS) PTY LTD DATED 08/03/2021.
 2. ORIGIN OF LEVELS: PM 41913 RL 51.416.
 3. THE SURVEY HAS BEEN LOCATED CONSIDERING THE MAP GRID OF AUSTRALIA 2020.

DA SUBMISSION
NOT FOR CONSTRUCTION

www.dialbeforeyoudig.com.au

REVISION	DESCRIPTION	BY	DATE
B	ISSUED FOR DA ENGINEERING APPROVAL	W.M.	06/05/2021
A	ISSUED FOR DA ENGINEERING APPROVAL	D.T.	31/07/2020

SITE DESCRIPTION
SUBDIVISION OF LOT 3 DP 1103503

THIS PLAN IS PRELIMINARY ONLY AND IS SUBJECT TO AMENDMENTS AND CHANGES DUE TO FURTHER INVESTIGATION, LATENT FINDS, UNKNOWN SITE CONDITIONS, SURVEYING AND LOCAL COUNCIL STATE AND FEDERAL GOVERNMENT AUTHORITIES RECOMMENDATIONS AND APPROVALS.

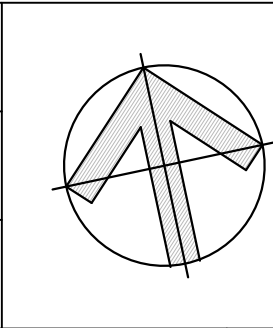
REPORTS AND INFORMATION REQUIRED TO FINALISE THIS PLAN WILL INCLUDE BUT WILL NOT BE LIMITED TO ARCHAEOLOGY, HERITAGE, CONTAMINATION, ECOLOGY, ZONING, DWELLING DENSITIES, CONSCIENTIOUS OBJECTION, GEOTECHNICAL, ADJOINING LANDOWNERS, REFERRAL AUTHORITIES, FLOODING AND WATERWAYS, SEWERAGE, WATER SUPPLY, ELECTRICITY, TELECOMMUNICATION.

BAR SCALES

1:1000 AT A1

NOTE: BOUNDARY AND LOT DIMENSIONS, ALIGNMENTS AND AREAS ARE PROVISIONAL AND ROUNDED TO NEAREST DECIMAL PLACE. AS SUCH THESE ARE SUBJECT TO FINAL SURVEY.

SURVEY	HEIGHT DATUM	LGA	AUTHORITY REFERENCE
DESIGN	CHECKING	DA No.	DATE
DRAWN	CHECKING	CC No.	DATE
W.M.	M.M.	-	-



PROJECT MANAGERS • SURVEYORS • PLANNERS • ENGINEERS

ABN: 86 064 110 809

GROUP DEVELOPMENT SERVICES PTY LTD

PO Box 498,
Pennant Hills NSW 1715
Phone: +61 2 9980 1000

Fax: +61 2 9484 0355
Email: info@gdsland.com.au
www.gdsland.com.au

THIS DRAWING IS SUBJECT TO COPYRIGHT AND MUST NOT BE REPRODUCED BY WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT OF GROUP DEVELOPMENT SERVICES PTY LTD. THIS PLAN MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS APPROVED BY PRINCIPAL CERTIFYING AUTHORITY.

PROJECT 46 O'CONNELL STREET CADDENS DA ENGINEERING		DRAWING NUMBER 800	
SURVEY PLAN			
PROJECT REFERENCE P00361	DATE OF ISSUE 06/05/2021	REVISION No. B	SHEET SIZE A1