



NEWPARK - PRECINCT 7, ROAD A102 SUBDIVISION WORKS CERTIFICATE

PROPOSED ROAD AND DRAINAGE WORKS


COUNCIL REF: SPP-17-00046



IMAGE REF: METROMAP - 20/03/22

LOCALITY SKETCH

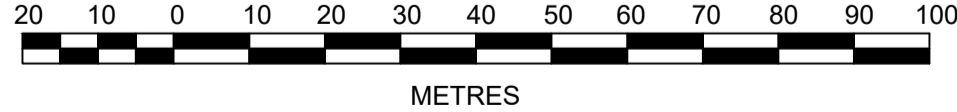
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au

1:1000 (AT A1)
 1:2000 (AT A3)



METRES

J. WYNDHAM PRINCE
 CELEBRATING



Plotted: 28 July 2022 11:15:49 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22001.dwg

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22	
	AMENDMENT	DES	DRN	CKD	APR	DATE	

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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**NEWPARK
 PRECINCT 7, ROAD A102
 COVER SHEET**

PROJECT No:
9985-12

SHEET No:
CC22001

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22001 A

Plotted: 28 July 2022 11:15:55 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22002.dwg

LEGEND			
DESCRIPTION	PROPOSED	EXISTING	FUTURE
EXTENT OF WORKS	//////		
KERB & GUTTER	K&G	====	-----
ROLL KERB	RK	====	-----
PRAM RAMP			
DRAINAGE LINE, PIT & EASEMENT			
DRAINAGE LINE & PIT			
SUBSOIL	SS SS	SS SS	
HEADWALL)))
CONTOURS	- - - 46.0 - - -	- - - 47.0 - - -	
KERB RETURN No	(KR)		
ELECTRICITY, POWER POLE	- E - E - E - E -	- eE - eE - eE -	
TELECOM, BOX	- T - T - T - T -	- eT - eT - eT - eT -	
WATER, STOP VALVE, HYDRANT	- W - W - W - W -	- eW - eW - eW - eW -	
SEWER, MANHOLE	- S - S - S - S -	- eS - eS - eS - eS -	
GAS	- G - G - G - G -	- eG - eG - eG - eG -	
STREET NAME SIGNS	SP		
STATE SURVEY MARKS	■		
STAGE BOUNDARY	-----		
CATCHMENT BOUNDARY	=====		
FLOW DIRECTION ARROW			
EXISTING NATIVE VEGETATION			
NATIVE VEGETATION RETENTION			
INDICATIVE DRIVEWAYS LOCATIONS			
RL17.3 CONTOUR	- - - - -		
TREES TO BE REMOVED			
TREES TO BE RETAINED			

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9985-12-CC22001	COVER SHEET	A
9985-12-CC22002	LEGEND & INDEX	A
9985-12-CC22003	GENERAL NOTES	A
9985-12-CC22004	OVERALL SITE PLAN	A
9985-12-CC22005	SETOUT PLAN	A
9985-12-CC22006	PAVEMENT PLAN SHEET 1	A
9985-12-CC22007	PAVEMENT PLAN SHEET 2	A
9985-12-CC22008	PAVEMENT PLAN SHEET 3	A
9985-12-CC22009	TYPICAL SECTIONS	A
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9985-12-CC22010	CUT & FILL PLAN	A
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9985-12-CC22012	ENGINEERING PLAN SHEET 2	A
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9985-12-CC22201	ROAD CROSS SECTIONS SHEET 1	A
9985-12-CC22202	ROAD CROSS SECTIONS SHEET 2	A
9985-12-CC22203	ROAD CROSS SECTIONS SHEET 3	A
9985-12-CC22204	ROAD CROSS SECTIONS SHEET 4	A
9985-12-CC22205	ROAD CROSS SECTIONS SHEET 5	A
9985-12-CC22206	ROAD CROSS SECTIONS SHEET 6	A
9985-12-CC22207	ROAD CROSS SECTIONS SHEET 7	A
-	-	-
9985-12-CC22301	KERB RETURNS SHEET 1	A
9985-12-CC22302	KERB RETURNS SHEET 2	A
9985-12-CC22303	KERB RETURNS SHEET 3	A
9985-12-CC22304	KERB RETURNS SHEET 4	A
9985-12-CC22305	KERB RETURNS SHEET 5	A
9985-12-CC22306	KERB RETURNS SHEET 6	A
9985-12-CC22307	KERB RETURNS SHEET 7	A

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
9985-12-CC22308	KERB RETURNS SHEET 8	A
9985-12-CC22309	KERB RETURNS SHEET 9	A
-	-	-
9985-12-CC22400	CATCHMENT PLAN SHEET 1	A
9985-12-CC22401	CATCHMENT PLAN SHEET 2	A
9985-12-CC22402	CATCHMENT PLAN SHEET 3	A
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9985-12-CC22411	PIT SCHEDULE SHEET 1	A
9985-12-CC22412	PIT SCHEDULE SHEET 2	A
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9985-12-CC22421	LONGITUDINAL DRAINAGE SHEET 1	A
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-	-	-
9985-12-CC22501	JOINTING PLAN	A
9985-12-CC22600	TAILOUT PLAN SHEET 1	A
9985-12-CC22601	TAILOUT PLAN SHEET 2	A
9985-12-CC22602	TAILOUT LONGITUDINAL SECTIONS SHEET 1	A
9985-12-CC22603	TAILOUT LONGITUDINAL SECTIONS SHEET 2	A
9985-12-CC22604	TAILOUT LONGITUDINAL SECTIONS SHEET 3	A
-	-	-
9985-12-CC22700	SOIL & WATER MANAGEMENT NOTES	A
9985-12-CC22701	SOIL & WATER MANAGEMENT PLAN	A
-	-	-
9985-12-CC22801	SIGNAGE & LINE MARKING PLAN SHEET 1	A
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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

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7



SURVEYED BY:
VMS
CAD REFERENCE: 20260-MASTER-140920.dxf
DATE RECEIVED: 14/09/20

LOT BOUNDARIES CALCULATED BY VMS
CAD REFERENCE: 7g-dp-090721.dxf
DATE RECEIVED: 12/7/21

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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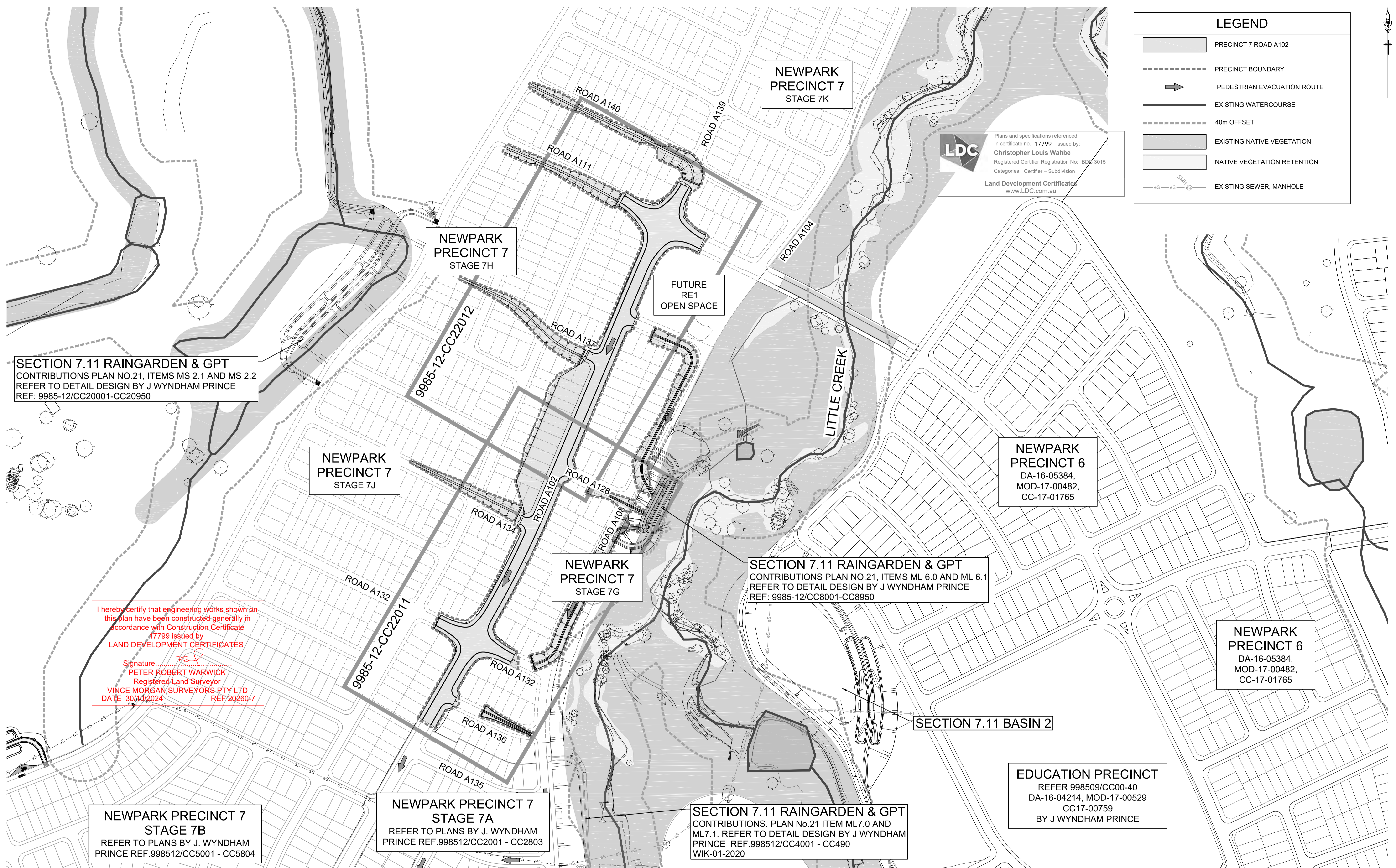
NEWPARK
PRECINCT 7, ROAD A102
LEGEND & INDEX

PROJECT No: **9985-12**
SHEET No: **CC22002**

PLAN No: **9985-12-CC22002**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22002 A

Plotted: 28 July 2022 11:16:38 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\K12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22004.dwg



SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS PLAN NO.21, ITEMS MS 2.1 AND MS 2.2 REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE REF: 9985-12/CC20001-CC20950

NEWPARK PRECINCT 7 STAGE 7J

NEWPARK PRECINCT 7 STAGE 7H

NEWPARK PRECINCT 7 STAGE 7K

FUTURE RE1 OPEN SPACE

NEWPARK PRECINCT 7 STAGE 7G

SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS PLAN NO.21, ITEMS ML 6.0 AND ML 6.1 REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE REF: 9985-12/CC8001-CC8950

NEWPARK PRECINCT 6 DA-16-05384, MOD-17-00482, CC-17-01765

NEWPARK PRECINCT 6 DA-16-05384, MOD-17-00482, CC-17-01765

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 Signature: *[Signature]*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 202607

NEWPARK PRECINCT 7 STAGE 7B REFER TO PLANS BY J. WYNDHAM PRINCE REF.998512/CC5001 - CC5804

NEWPARK PRECINCT 7 STAGE 7A REFER TO PLANS BY J. WYNDHAM PRINCE REF.998512/CC2001 - CC2803

SECTION 7.11 RAINGARDEN & GPT CONTRIBUTIONS. PLAN No.21 ITEM ML7.0 AND ML7.1. REFER TO DETAIL DESIGN BY J WYNDHAM PRINCE REF.998512/CC4001 - CC490 WIK-01-2020

SECTION 7.11 BASIN 2

EDUCATION PRECINCT REFER 998509/CC00-40 DA-16-04214, MOD-17-00529 CC17-00759 BY J WYNDHAM PRINCE

LEGEND

- PRECINCT 7 ROAD A102
- PRECINCT BOUNDARY
- PEDESTRIAN EVACUATION ROUTE
- EXISTING WATERCOURSE
- 40m OFFSET
- EXISTING NATIVE VEGETATION
- NATIVE VEGETATION RETENTION
- EXISTING SEWER, MANHOLE

LDC
 Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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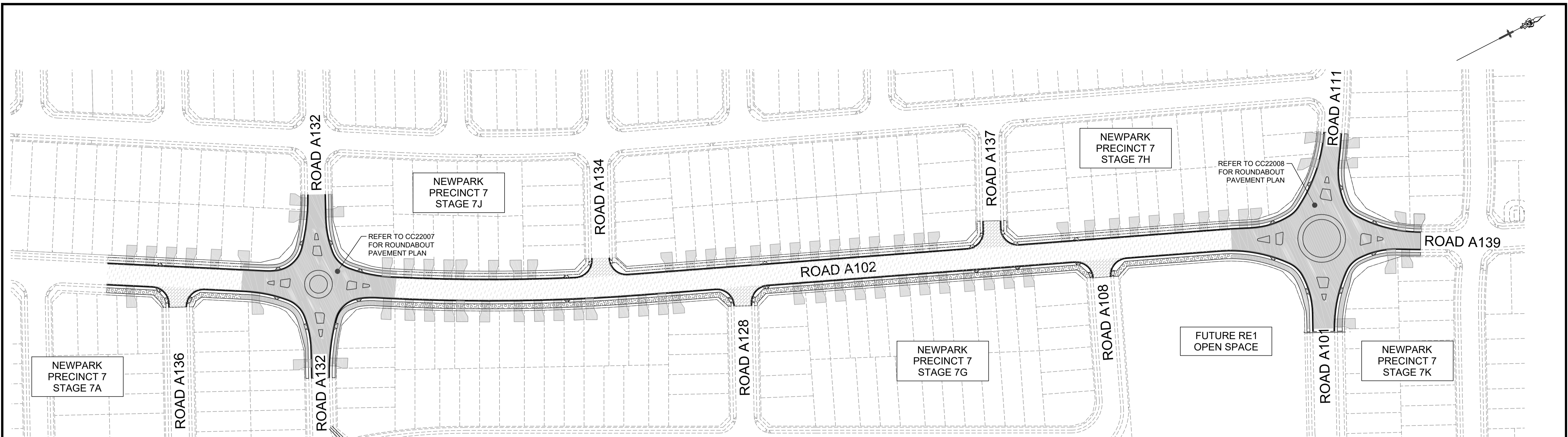
J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
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NEWPARK PRECINCT 7, ROAD A102 OVERALL SITE PLAN
 PROJECT No: **9985-12**
 SHEET No: **CC22004**
 PLAN No: **9985-12-CC22004**

AMAZON: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112



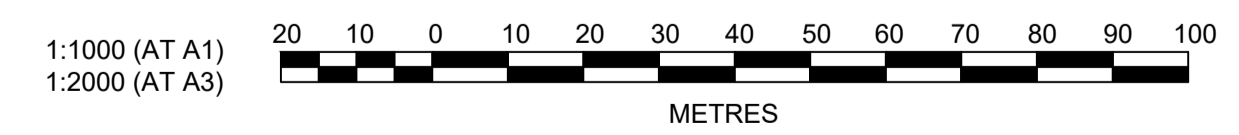
PAVEMENT NOTES:
 1. PAVEMENT DESIGN FOR CONTROLLED FILL TO HAVE A DESIGN CBR OF 4%. ALTERNATIVELY, EXISTING SUBGRADE CAN BE TREATED. REFER TO PAVEMENT DESIGN REPORT BY GEOTECHNICAL ENGINEER FOR TREATMENT DETAILS.
 2. THE PAVEMENT DESIGN IS PRELIMINARY ONLY AND SUBJECT TO CONFIRMATION VIA ON-SITE CBR TESTING PRIOR TO IMPORTATION AND PLACEMENT OF ROAD PAVEMENT MATERIALS

LEGEND	
PAVEMENT DESIGN (REFER TO REPORT BY GEOTECH TESTING PTY LTD 8581/5-AA DATED 12 MARCH 2020)	
	PAVEMENT TYPE 1 (ROAD TYPE 1 & 2 - COLLECTOR ROAD) ESA 1x10⁶ AC10 (mm) = 2x25 TACK SEAL BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 300 TOTAL (mm) = 500
	PAVEMENT TYPE 2 (ROAD TYPES 3, 4 & 5 - LOCAL + BOUNDARY ROADS) ESA 5x10⁵ AC10 (mm) = 2x25 TACK SEAL BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 270 TOTAL (mm) = 470
	PAVEMENT TYPE 7 (FOOTPATH) CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"
	PAVEMENT TYPE 8 (SHARED PATH) CONCRETE 125mm WITH SL82 MESH TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009" & STANDARD DRAWING A(BS)134S

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Signature:
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

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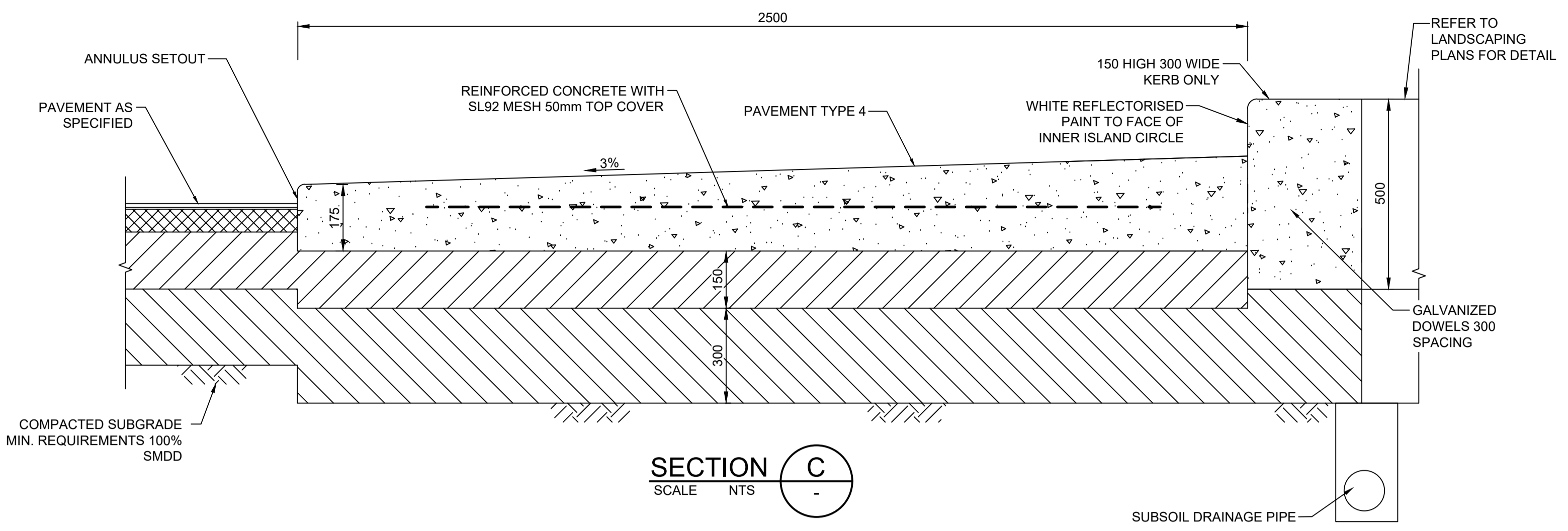
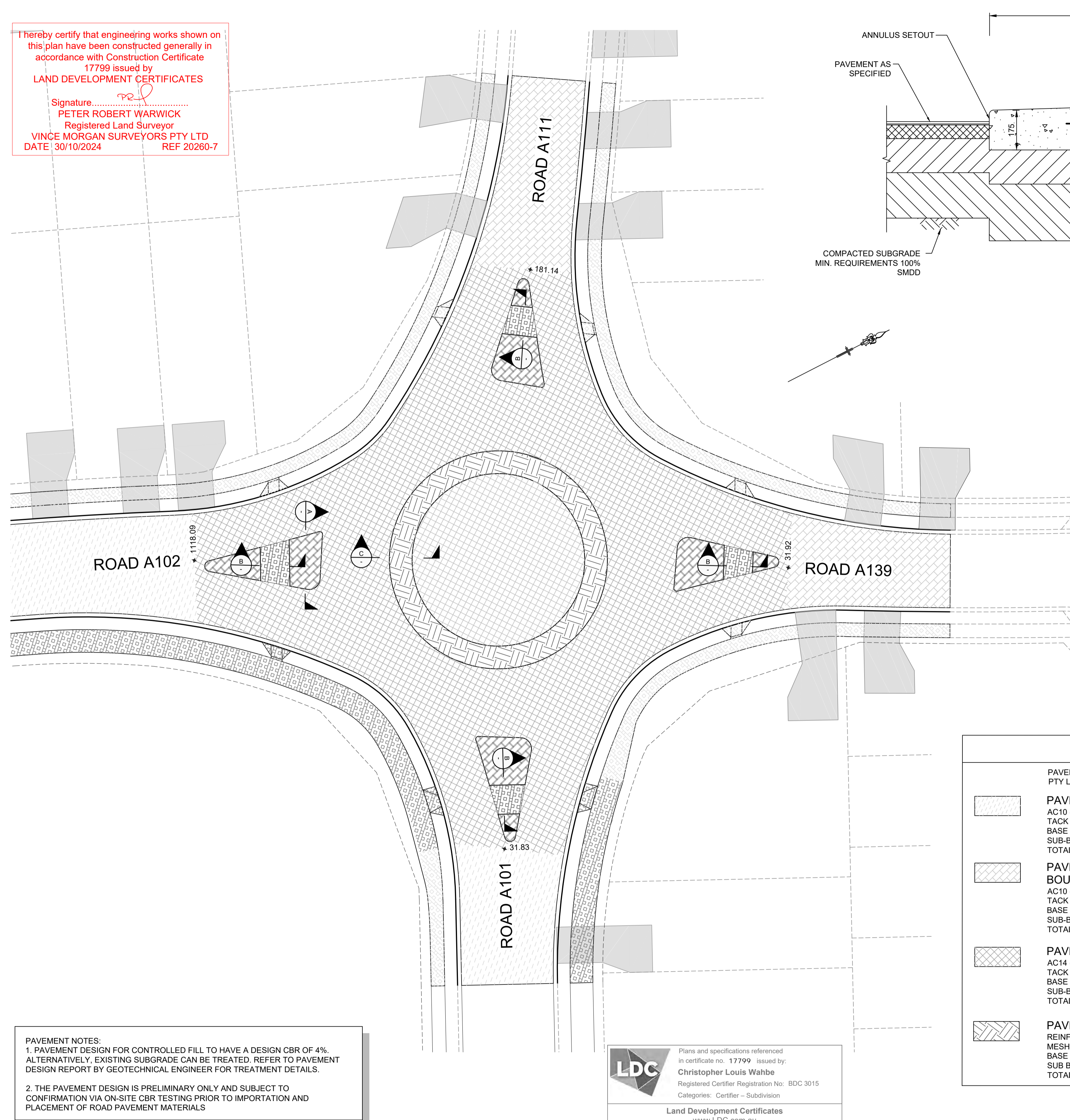
NEWPARK PRECINCT 7, ROAD A102 PAVEMENT PLAN SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22006

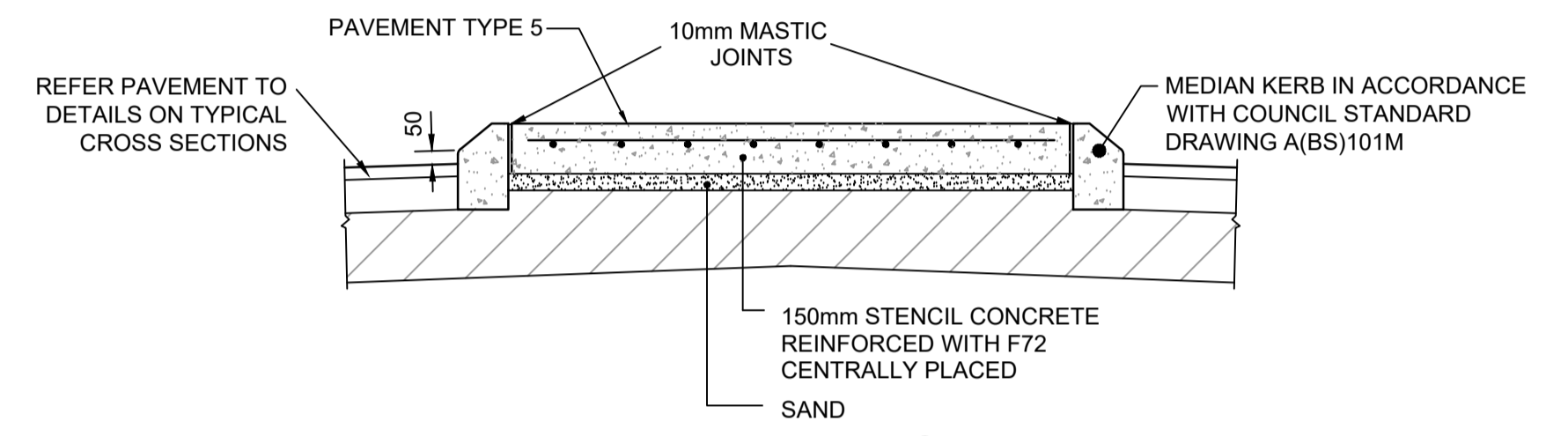
PROJECT No: **9985-12**
 SHEET No: **CC22006**

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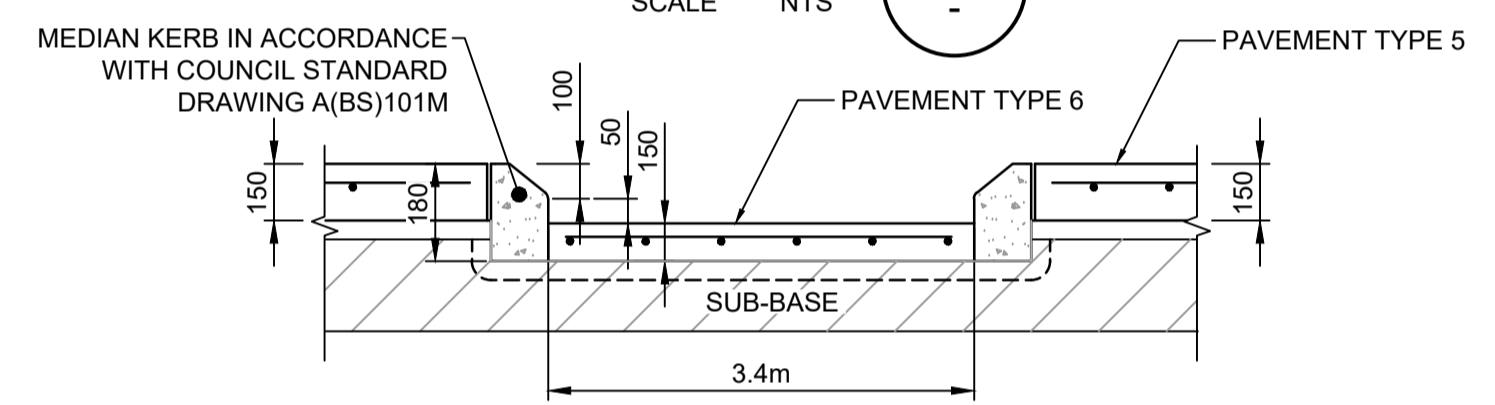
Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE: 30/10/2024 REF 20260-7



SECTION C
SCALE: NTS



SECTION A
SCALE: NTS

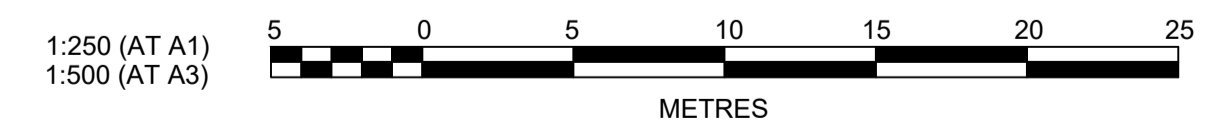


SECTION B
SCALE: NTS

LEGEND	
	PAVEMENT TYPE 1 (COLLECTOR ROAD) ESA 1x10⁶ AC10 (mm) = 2x25 TACK SEAL = 150 BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 300 TOTAL (mm) = 500
	PAVEMENT TYPE 2 (ROAD TYPES 3, 4 & 5 - LOCAL + BOUNDARY ROADS) ESA 5x10⁵ AC10 (mm) = 2x25 TACK SEAL = 150 BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 270 TOTAL (mm) = 470
	PAVEMENT TYPE 3 AC14 (mm) POLYMER MODIFIED = 75 TACK SEAL = 150 BASE COURSE - DGB20 (mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 300 TOTAL (mm) = 525
	PAVEMENT TYPE 4 (CENTRAL ISLAND) REINFORCED CONCRETE WITH SL92 MESH 50mm TOP COVER = 175 TO 250 BASE COURSE DGB 20(mm) = 150 SUB-BASE COURSE - CRUSHED SANDSTONE = 300 TOTAL (mm) = 625 TO 695
	PAVEMENT TYPE 5 (MEDIAN ISLAND) STENCIL CONCRETE REINFORCED WITH F72 CENTRALLY PLACED (mm) = 150 SAND (mm) = 300 TO 430 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 500 TO 630 TOTAL (mm) = 950 TO 1110
	PAVEMENT TYPE 6 (MEDIAN ISLAND 2) BROOM FINISH CONCRETE REINFORCED WITH F72 CENTRALLY PLACED (mm) = 150 SAND (mm) = 50 SUB-BASE COURSE - CRUSHED SANDSTONE (mm) = 325 TOTAL (mm) = 525
	PAVEMENT TYPE 7 (FOOTPATH) CONCRETE 125mm TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009"
	PAVEMENT TYPE 8 (SHARED PATH) CONCRETE 125mm WITH SL82 MESH TO BLACKTOWN CITY COUNCIL "PATH PAVING POLICY 2009" & STANDARD DRAWING A(BS)134S
	PAVEMENT TYPE 9 (CENTRAL LANDSCAPE AREA) REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS

PAVEMENT NOTES:
 1. PAVEMENT DESIGN FOR CONTROLLED FILL TO HAVE A DESIGN CBR OF 4%. ALTERNATIVELY, EXISTING SUBGRADE CAN BE TREATED. REFER TO PAVEMENT DESIGN REPORT BY GEOTECHNICAL ENGINEER FOR TREATMENT DETAILS.
 2. THE PAVEMENT DESIGN IS PRELIMINARY ONLY AND SUBJECT TO CONFIRMATION VIA ON-SITE CBR TESTING PRIOR TO IMPORTATION AND PLACEMENT OF ROAD PAVEMENT MATERIALS

LDC Plans and specifications referenced in certificate no. 17799 issued by:
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Plotfile: 28 July 2022 11:18:03 AM File Name: J:\9985\9985-12-CC22008.dwg

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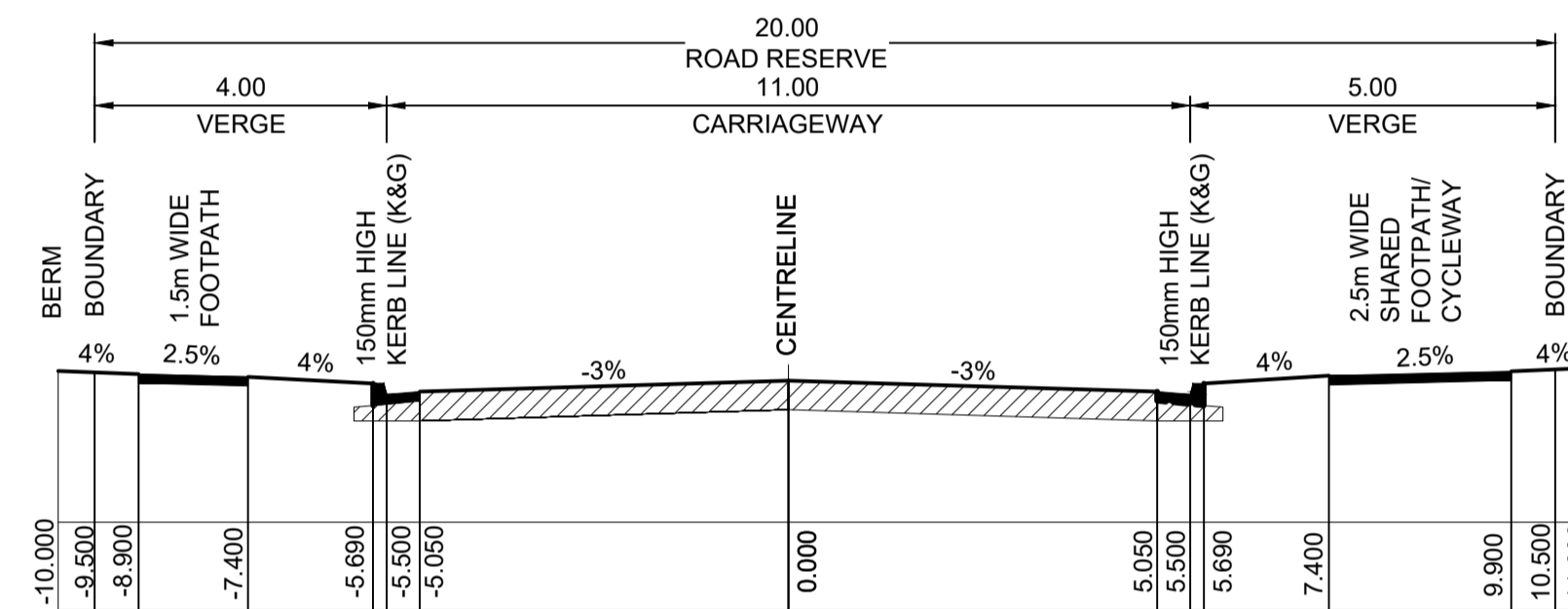
NEWPARK PRECINCT 7, ROAD A102 PAVEMENT PLAN SHEET 3

PROJECT No:
9985-12
 SHEET No:
CC22008
 PLAN No: **9985-12-CC22008**

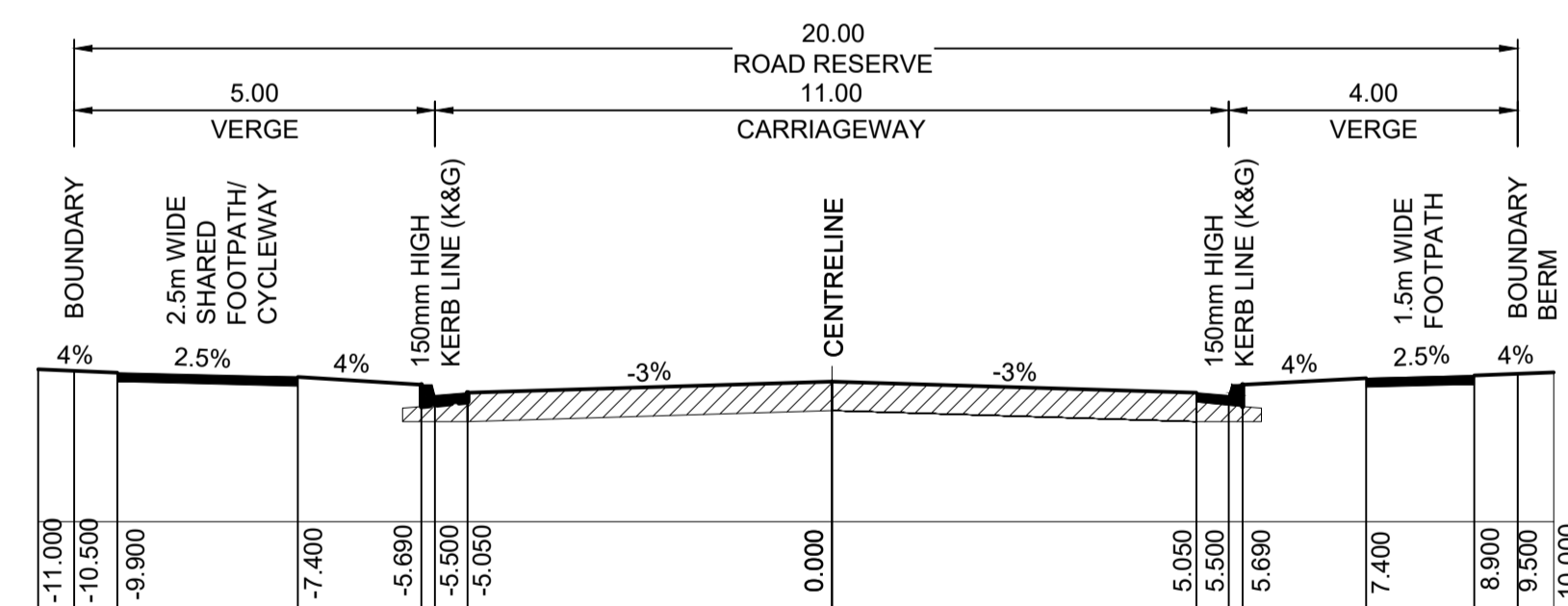
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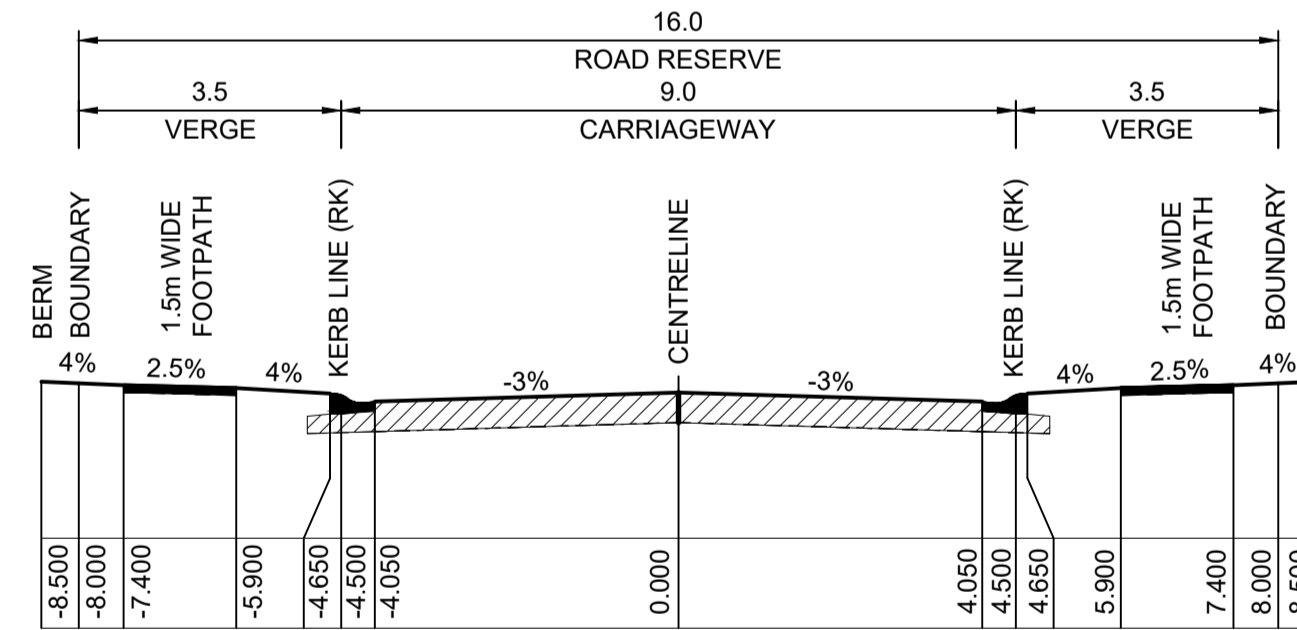
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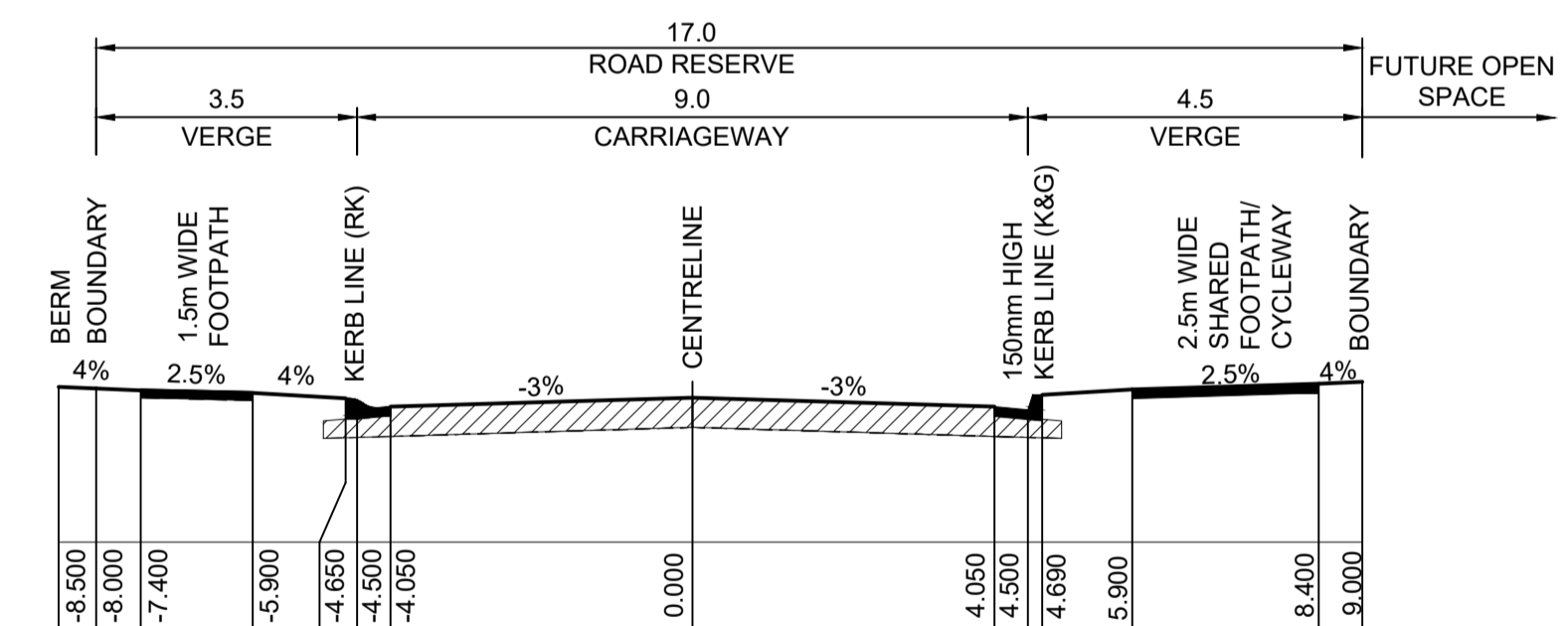
TYPE 1 - ROAD A102
 (CH 540.000 TO CH 1151.555)
 1:100 NATURAL



TYPE 1 - ROAD A101
 (CH 0.0 TO CH 46.746)
 1:100 NATURAL

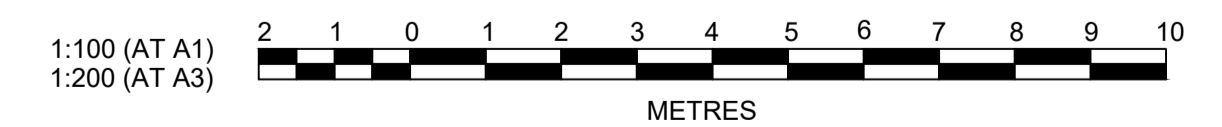


TYPE 4 - LOCAL ROAD
 ROAD A111 - (CH 160.012 TO CH 213.293)
 ROAD A128 - (CH 0.000 TO CH 14.726)
 ROAD A132 - (CH 237.242 TO CH 329.377)
 ROAD A134 - (CH 265.391 TO CH 279.921)
 ROAD A136 - (CH 0.000 TO CH 14.941)
 ROAD A137 - (CH 53.185 TO CH 72.607)
 ROAD A139 - (CH 0.000 TO CH 49.740)
 1:100 NATURAL



TYPE 2 - BOUNDARY ROAD
 ROAD A108 - (CH 2029.561 - CH 2043.561)
 1:100 NATURAL

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NEWPARK
 PRECINCT 7, ROAD A102
 TYPICAL SECTIONS

PROJECT No: **9985-12**
 SHEET No: **CC22009**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22009**


PROJECT No: **9985-12**
 SHEET No: **CC22009**

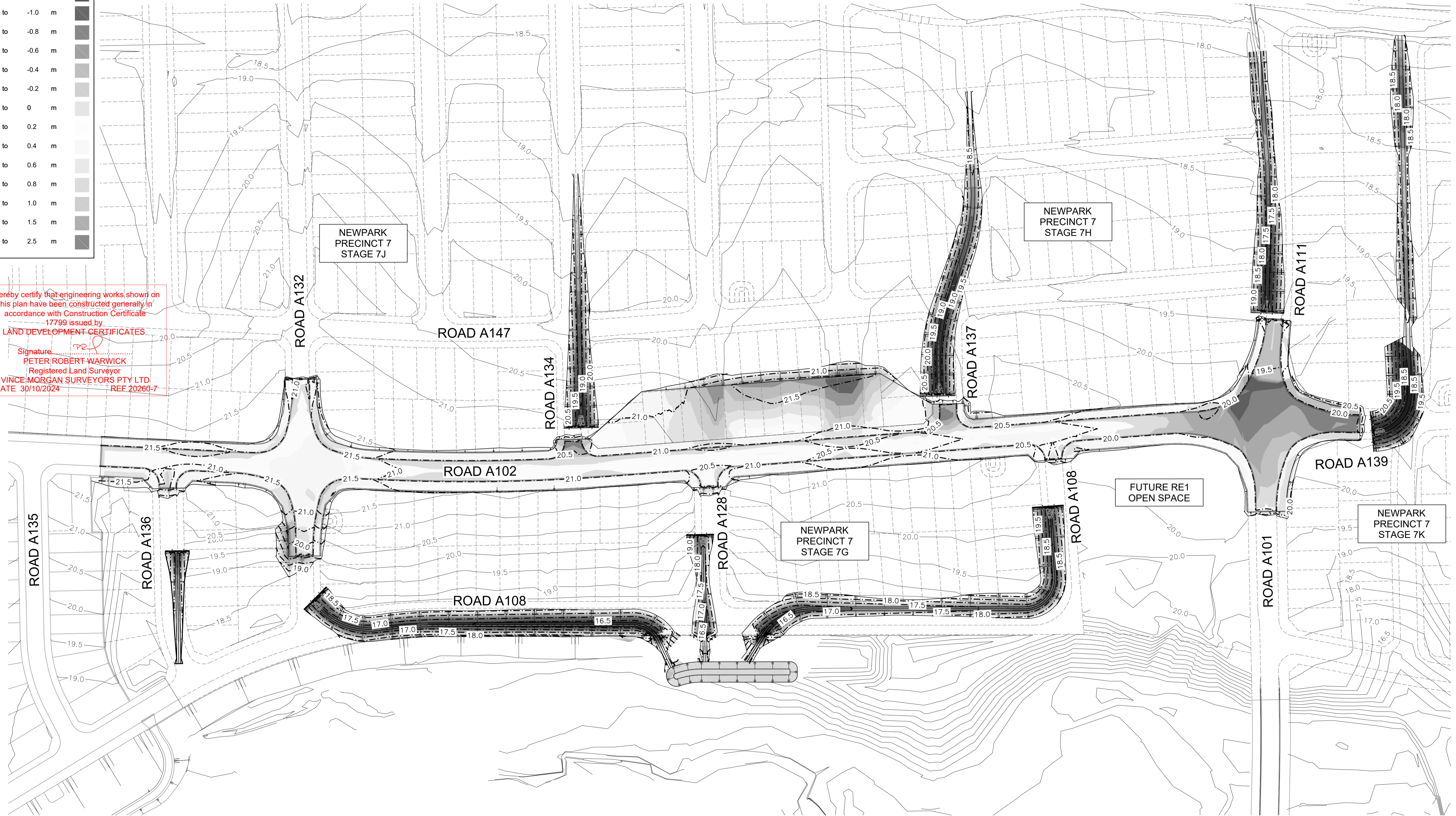
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LEGEND

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-1.5	to	-1.0	m	█
-1.0	to	-0.8	m	█
-0.8	to	-0.6	m	█
-0.6	to	-0.4	m	█
-0.4	to	-0.2	m	█
-0.2	to	0	m	█
0	to	0.2	m	█
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0.4	to	0.6	m	█
0.6	to	0.8	m	█
0.8	to	1.0	m	█
1.0	to	1.5	m	█
1.5	to	2.5	m	█

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

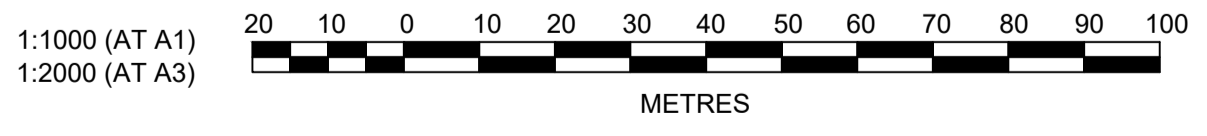


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LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

Land Development Certificates
www.LDC.com.au

NOTE:
 CUT FILL TAKEN FROM EXISTING & BOXING DESIGN SURFACE TO EXISTING SURFACE (NO BULKING FACTORS)



NO.	DESCRIPTION	KE/DG	NJ	DG	MS	28/07/22
DES	DRN	CKD	APR	DATE		
A	ISSUE FOR INFORMATION					
	AMENDMENT					

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

 **WINTER PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, ROAD A102 CUT & FILL PLAN


PROJECT No: **9985-12**
 SHEET No: **CC22010**

PLAN No: **9985-12-CC22010**

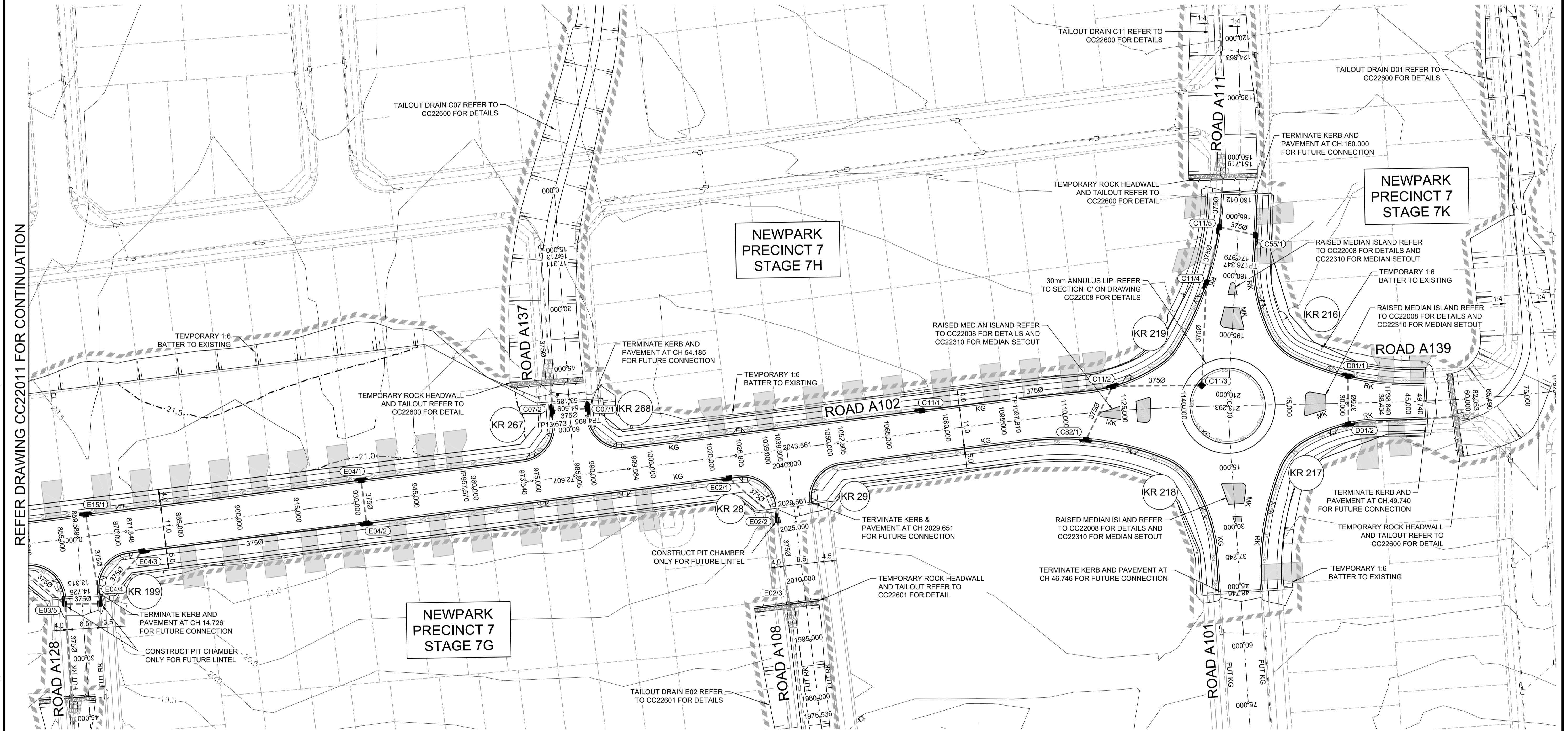
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SHEET No:	CC22010
PLAN No:	9985-12-CC22010

AZIMUTH: M.G.A.94	DATUM: A.H.D.	ORIGIN: SSM 1112	PLAN No: 9985-12-CC22010	A
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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

NOT CONSTRUCTED AT TIME OF SURVEY



REFER DRAWING CC22011 FOR CONTINUATION

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LDC Plans and specifications referenced in certificate no. 17799 issued by:
 Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

WARNING!
 UNDERGROUND SERVICE CABLES IN VICINITY. EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" PRIOR TO ANY CONSTRUCTION WORK

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

BEFORE YOU DIG
 www.byda.com.au

1:500 (AT A1)
 1:1000 (AT A3)
 0 10 20 30 40 50
 METRES

NO.	DESCRIPTION	KE/DG	NJ	DG	MS	DATE
A	ISSUE FOR INFORMATION					28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
 **WINTER PROPERTY GROUP**

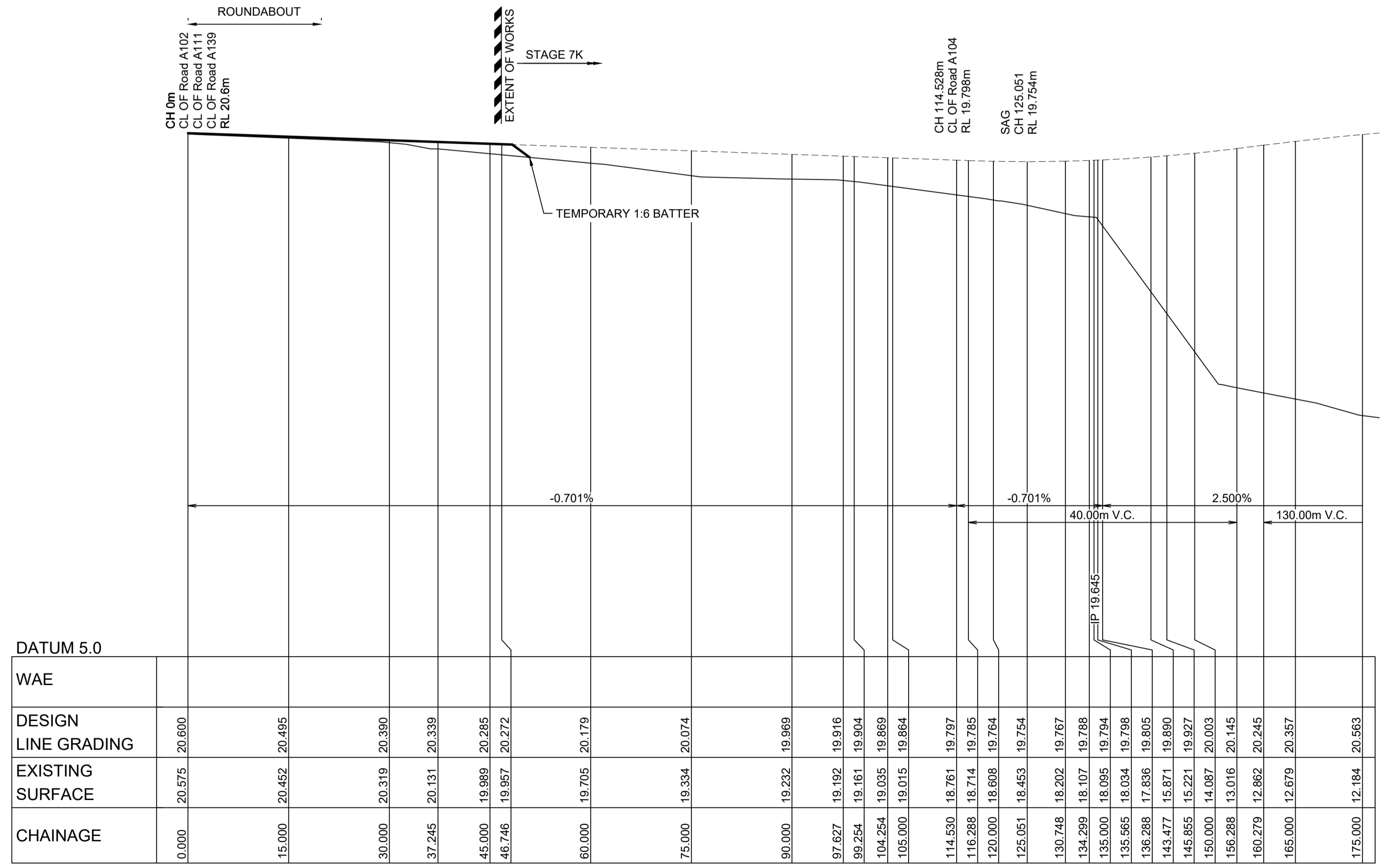
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 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, ROAD A102
 ENGINEERING PLAN SHEET 2

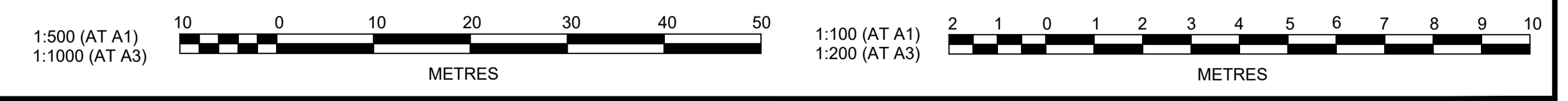
PROJECT No:
9985-12
 SHEET No:
CC22012
 PLAN No: 9985-12-CC22012

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LONGITUDINAL SECTION Road A101
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au

NO.	DESCRIPTION	KE/DG	NJ	DG	MS	DATE
A	ISSUE FOR INFORMATION					28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

W WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

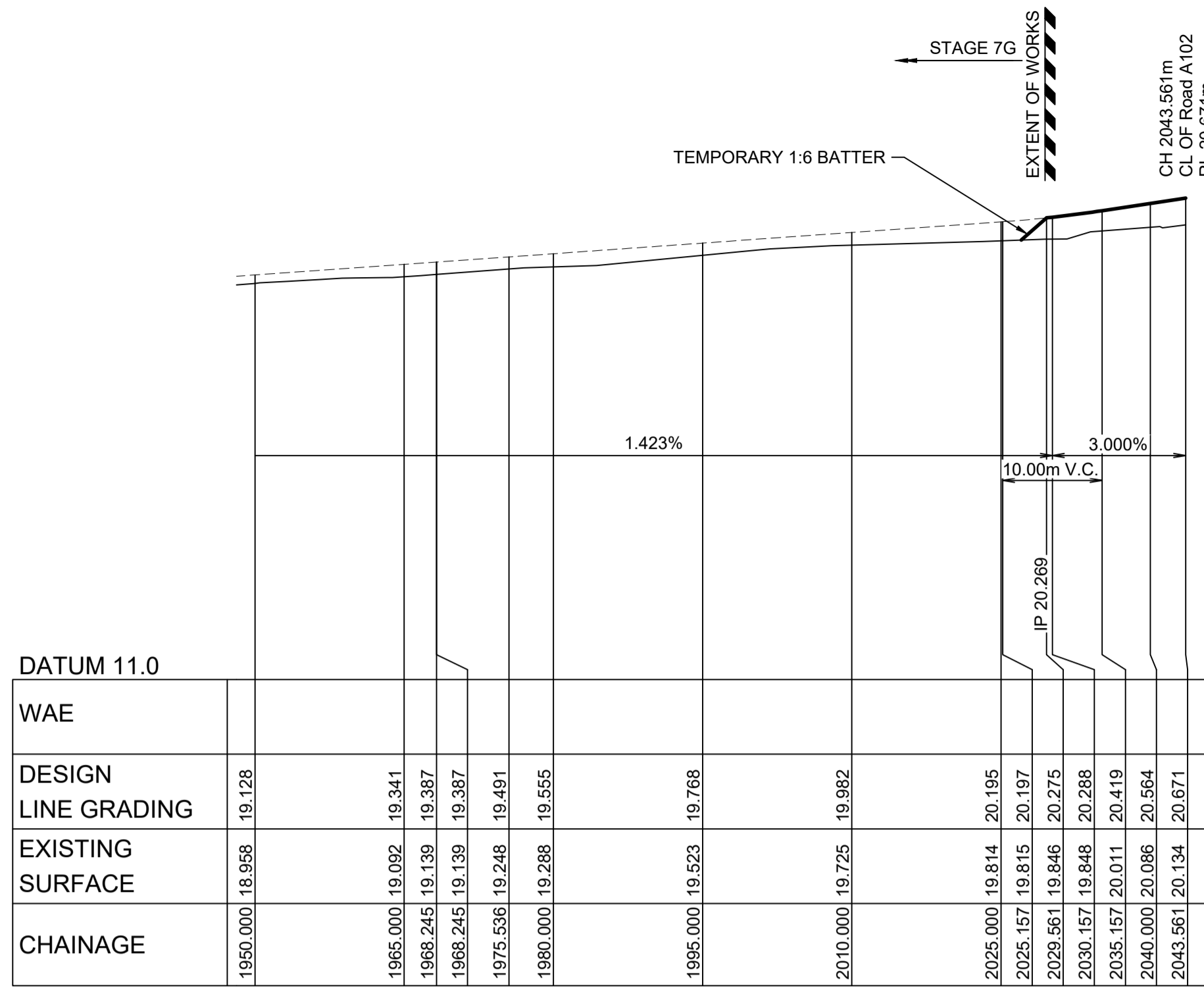
NEWPARK PRECINCT 7, ROAD A102 ROAD LONGITUDINAL SECTIONS SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22101

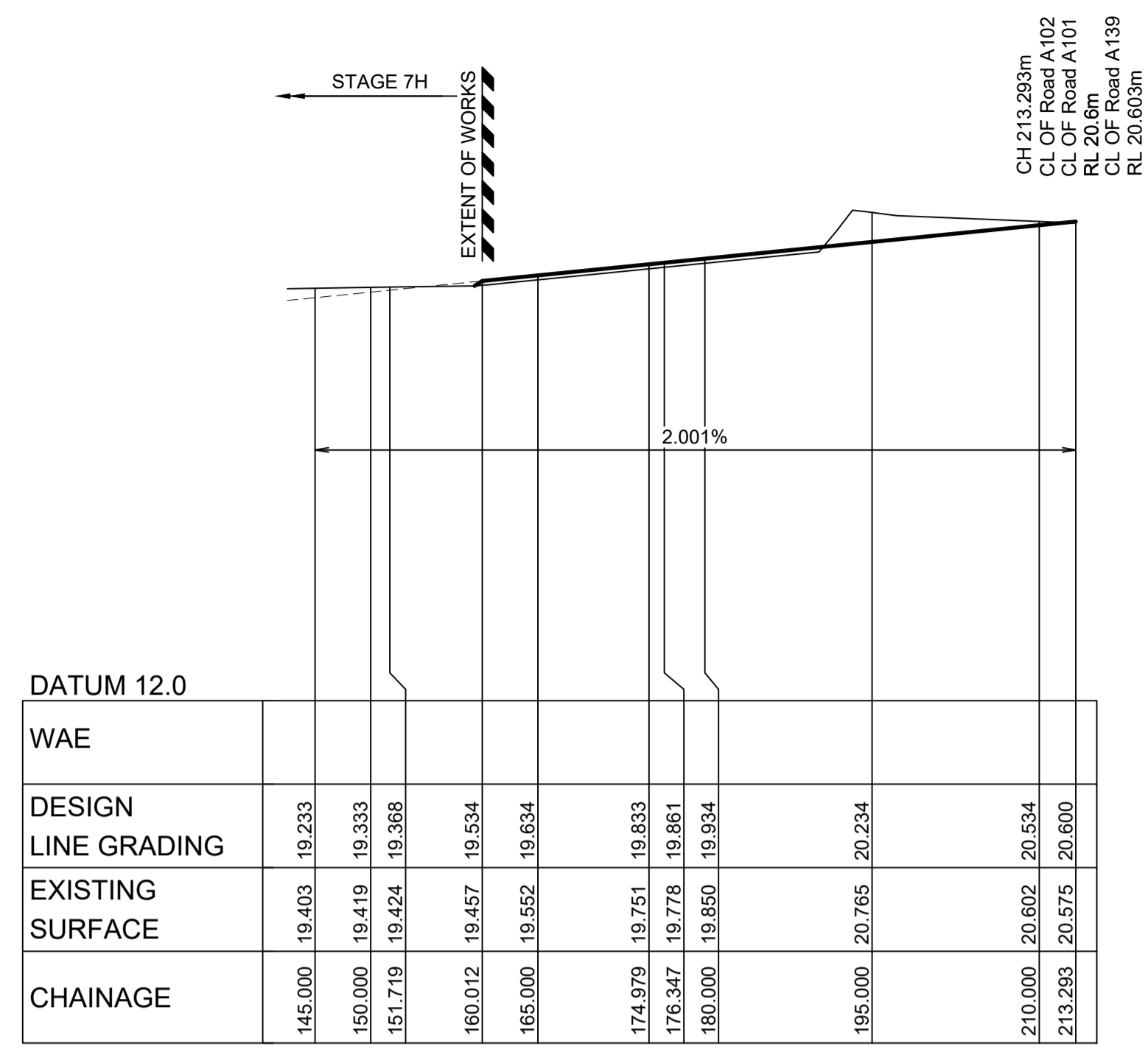
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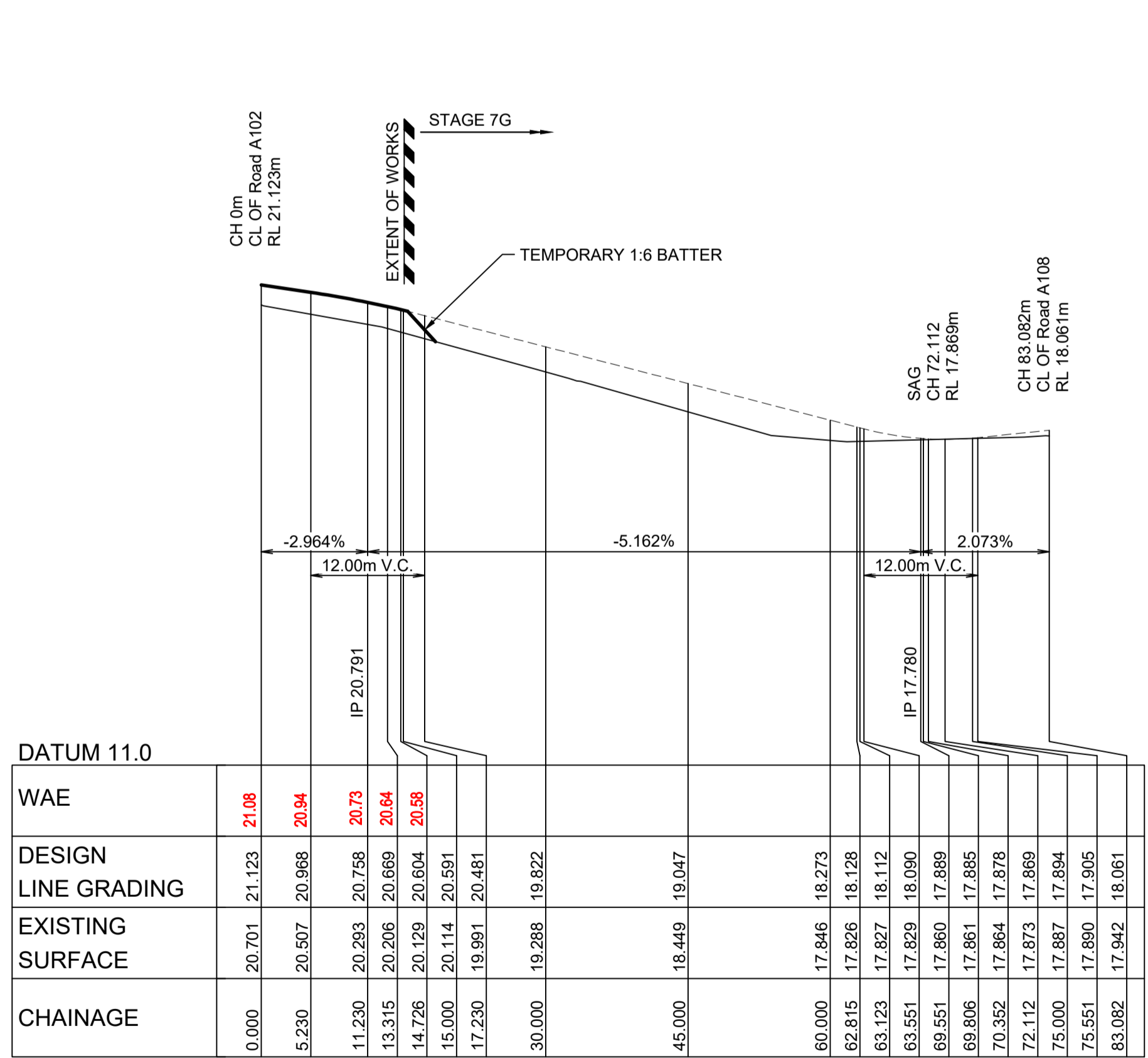


LONGITUDINAL SECTION Road A108
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

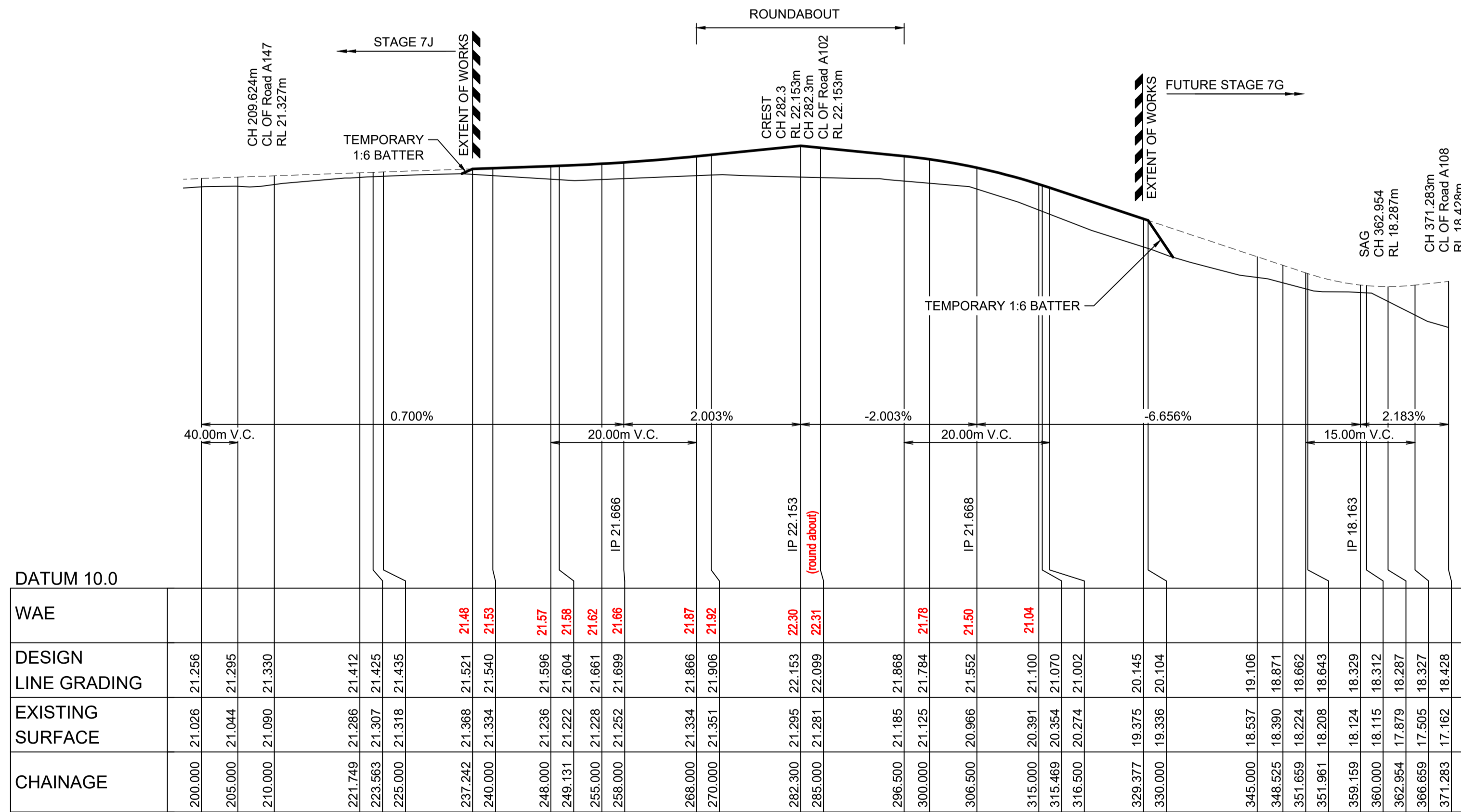


LONGITUDINAL SECTION Road A111
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES
Signature: *PR*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

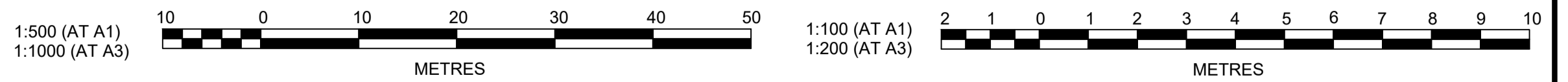


LONGITUDINAL SECTION Road A128
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION Road A132
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
Land Development Certificates
www.LDC.com.au



ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

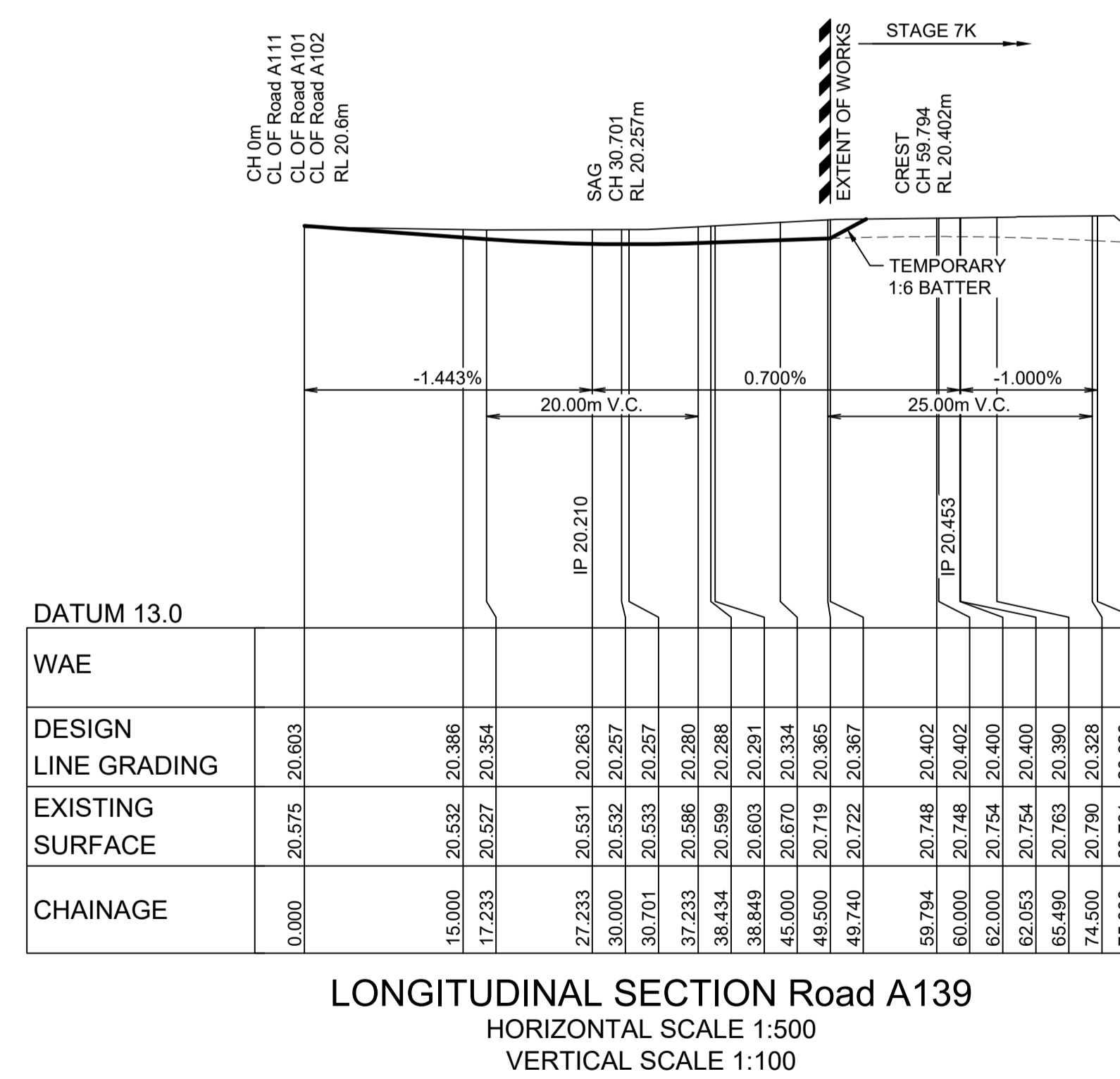
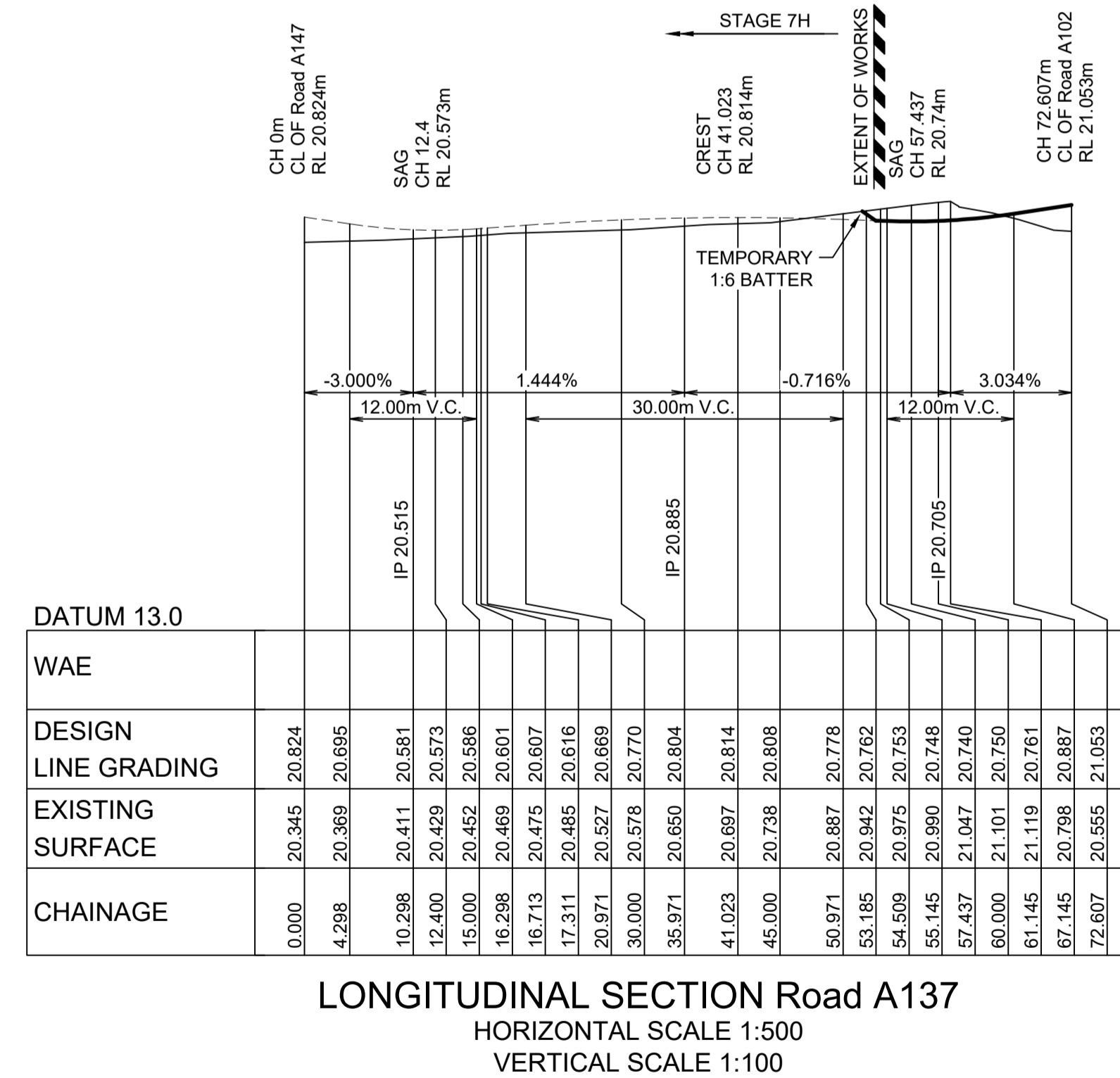
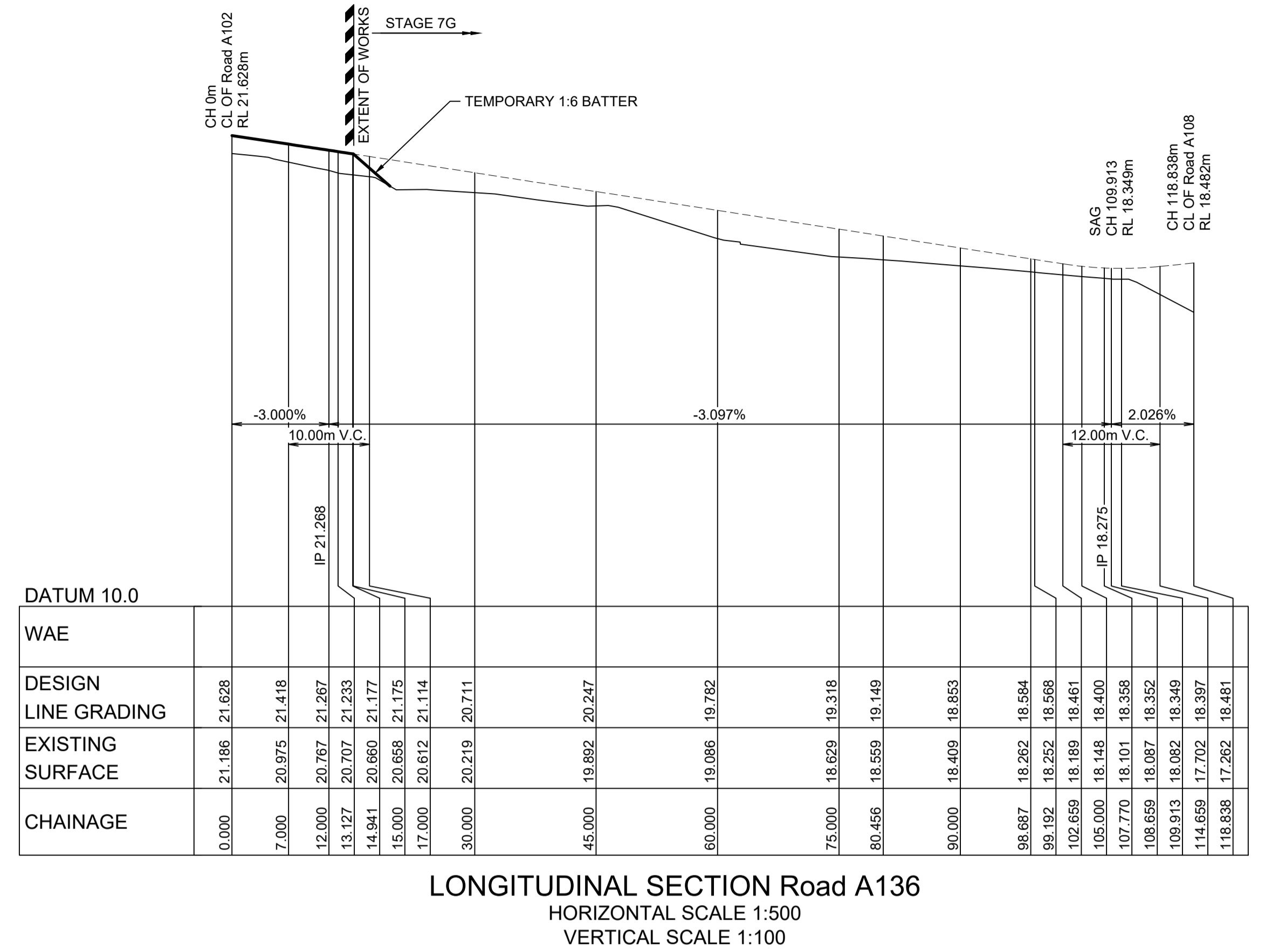
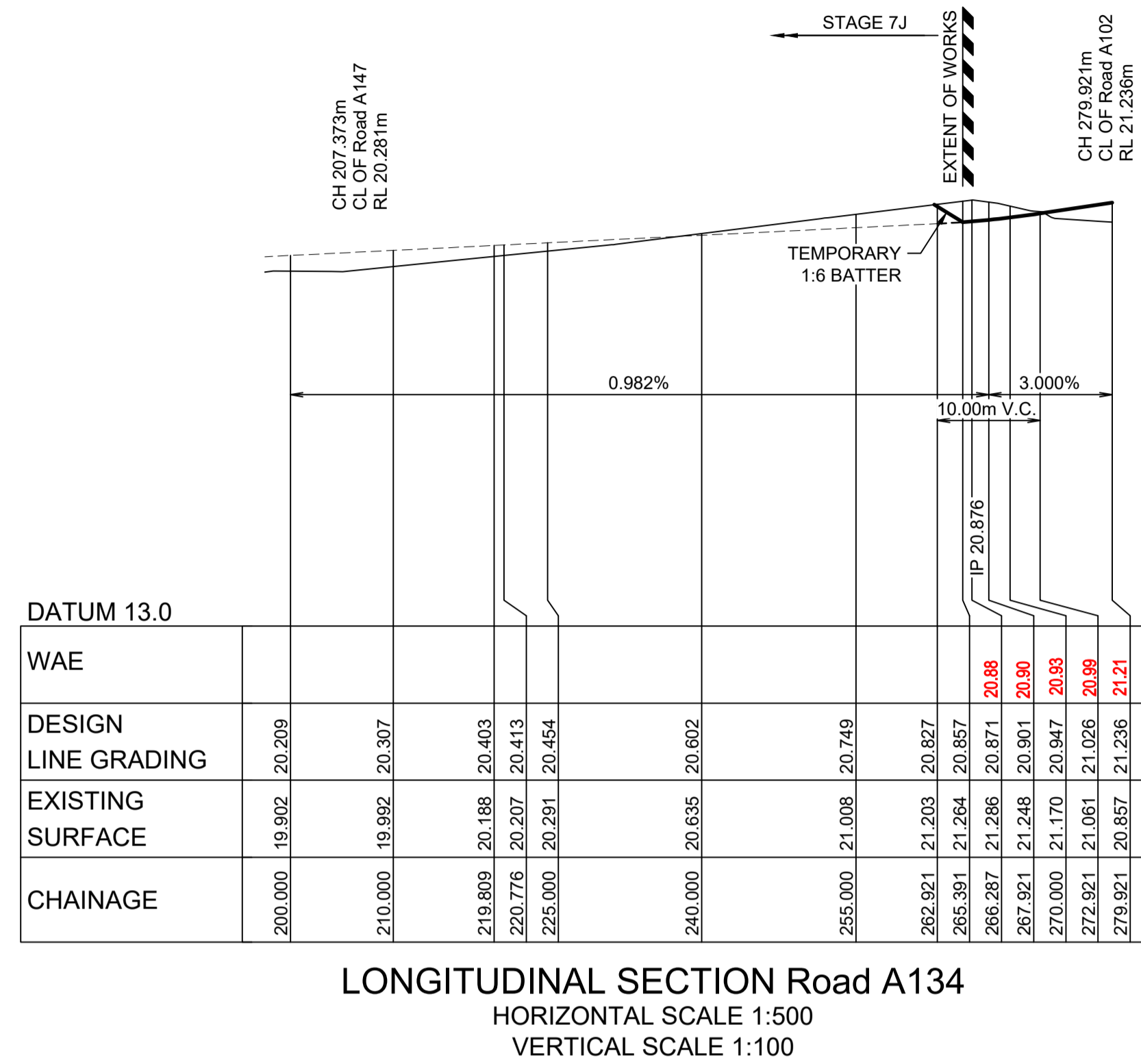
CLIENT:
WINTEN PROPERTY GROUP

STATUS:
ISSUE FOR CONSTRUCTION APPROVAL
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NEWPARK PRECINCT 7, ROAD A102 ROAD LONGITUDINAL SECTIONS SHEET 3

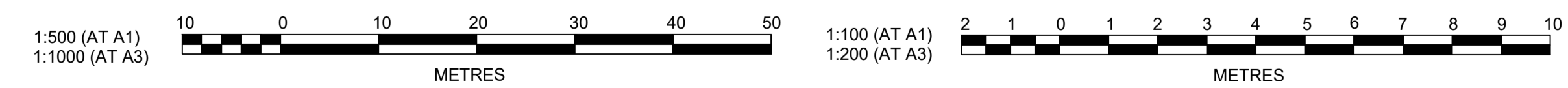
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SHEET No: **CC22103**
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22103**

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I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
AMENDMENT	DES	DRN	CKD	APR	DATE

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102 ROAD LONGITUDINAL SECTIONS SHEET 4

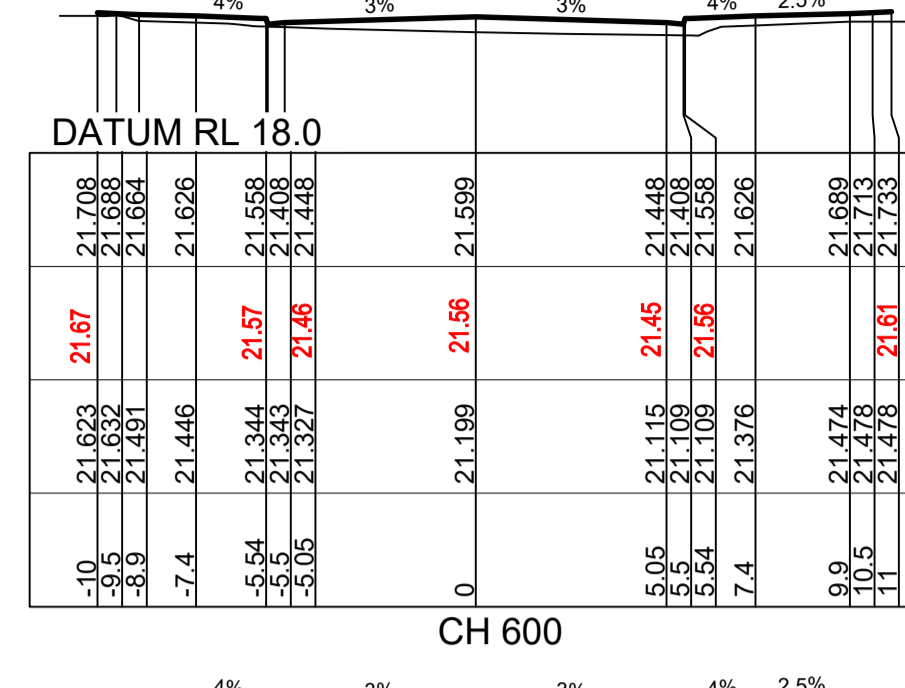
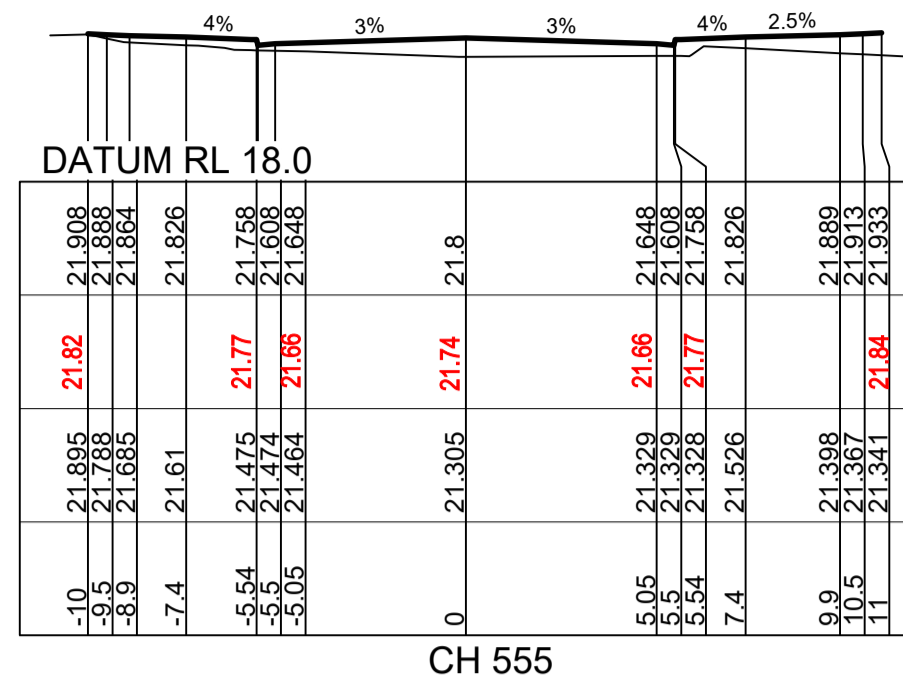
PROJECT No: **9985-12**
 SHEET No: **CC22104**

PLAN No: **9985-12-CC22104**

PROJECT No: **9985-12**
 SHEET No: **CC22104**

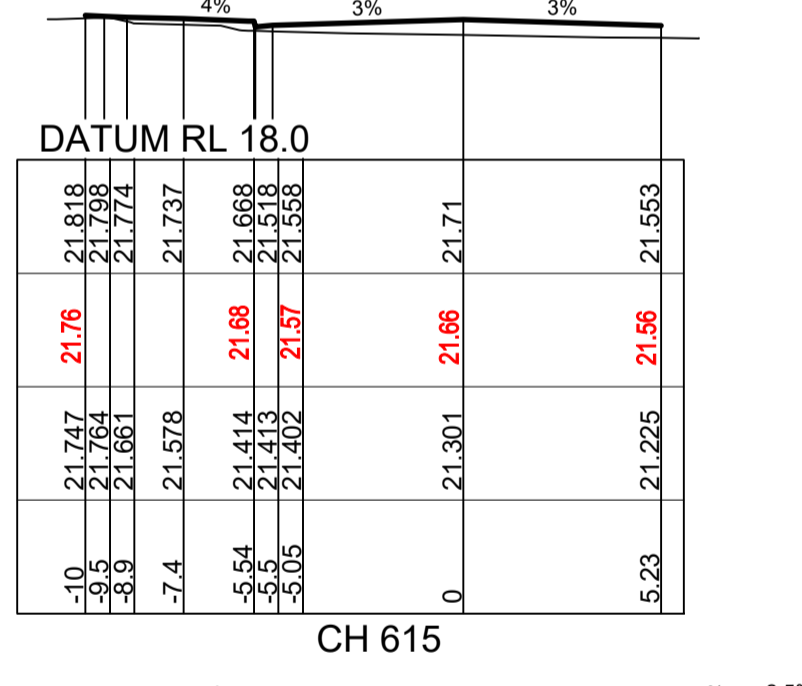
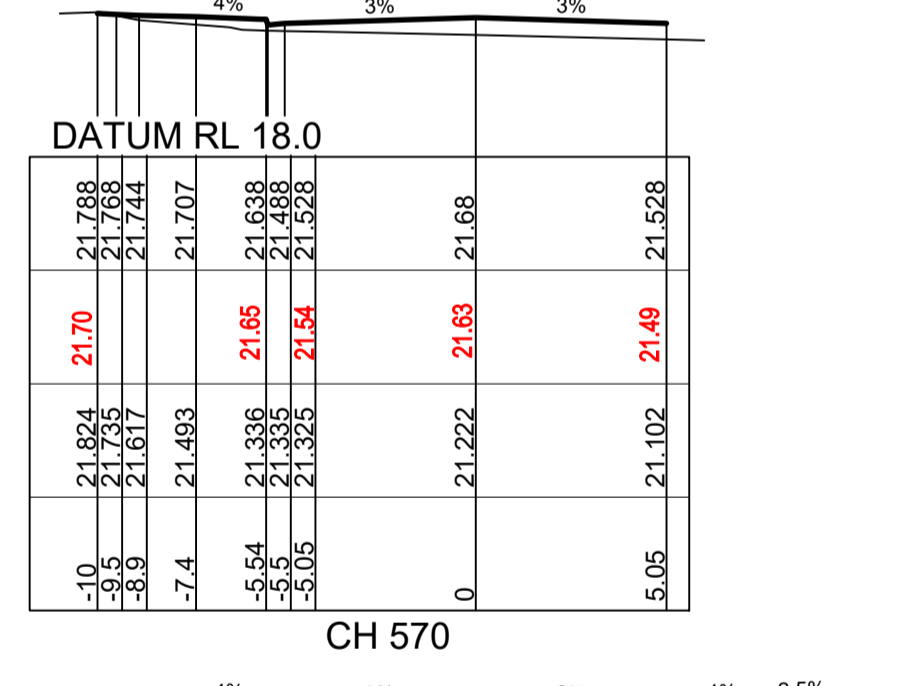
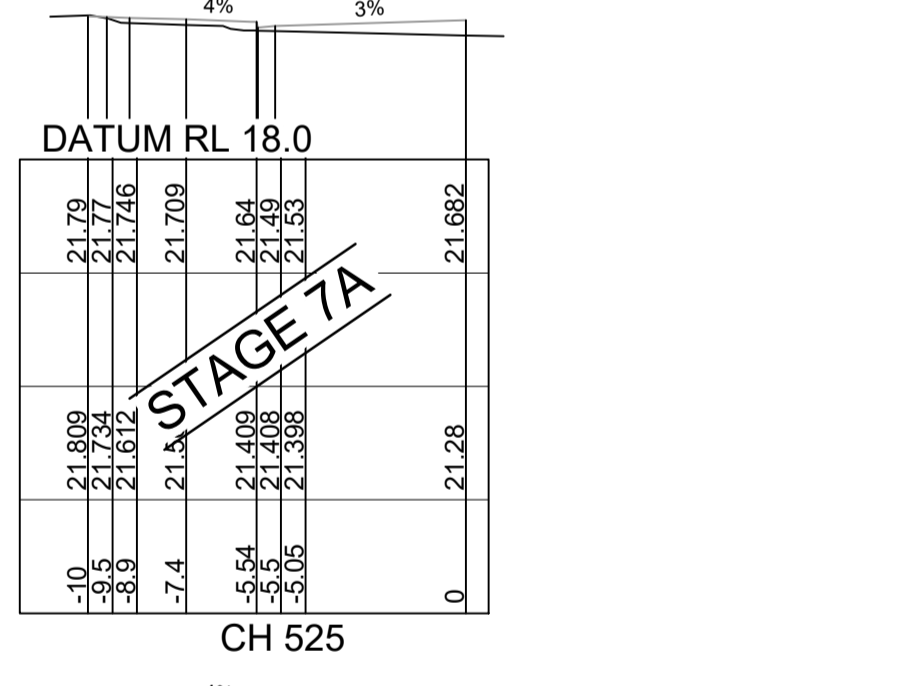
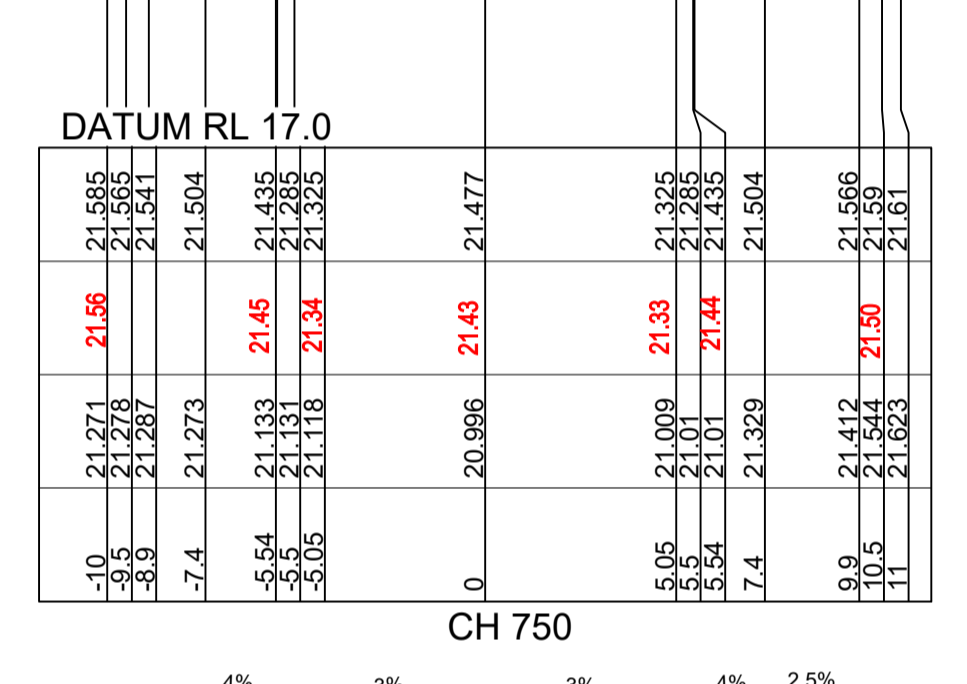
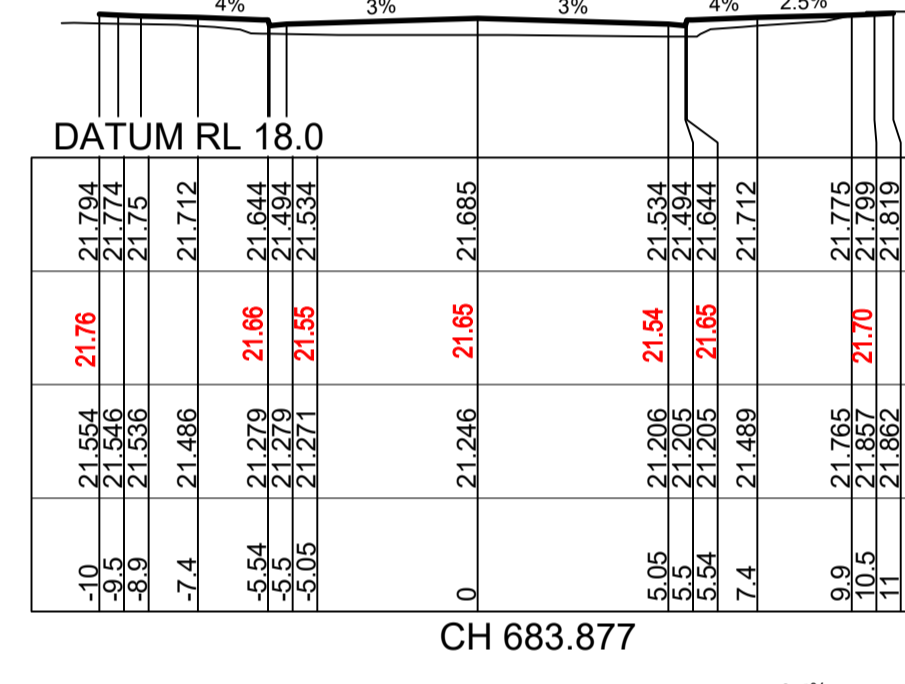
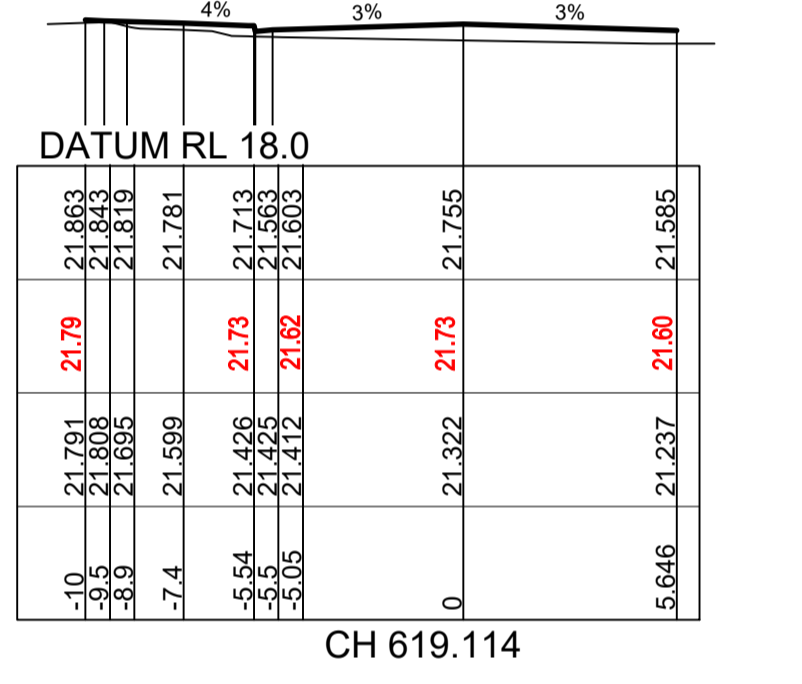
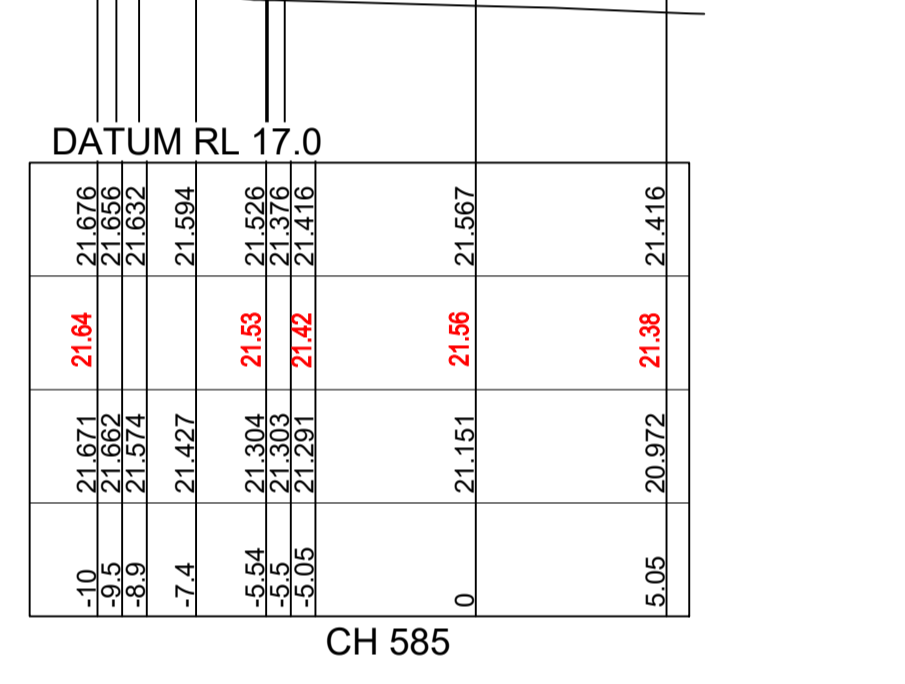
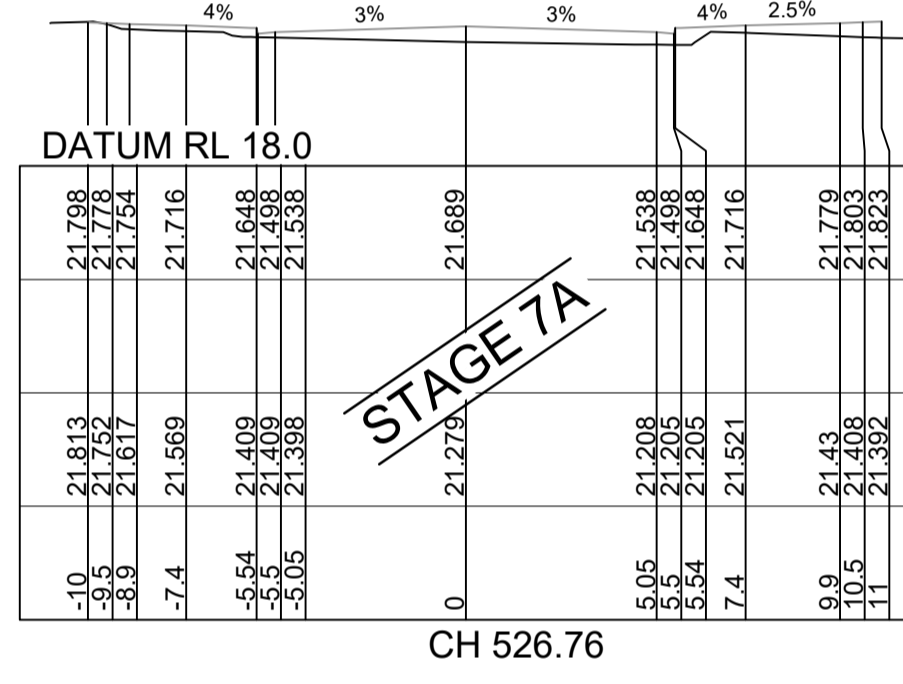
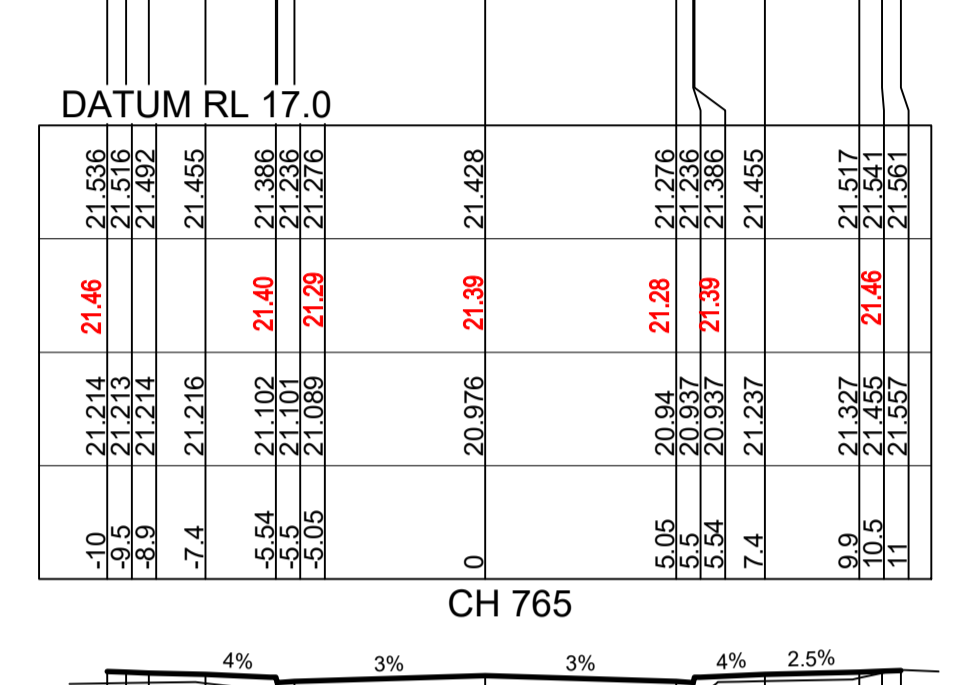
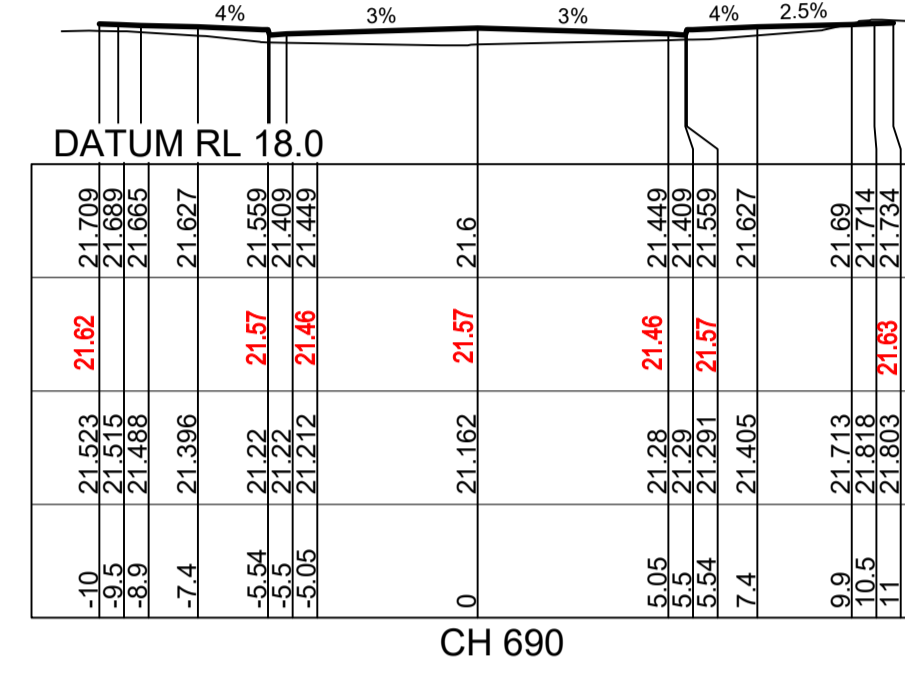
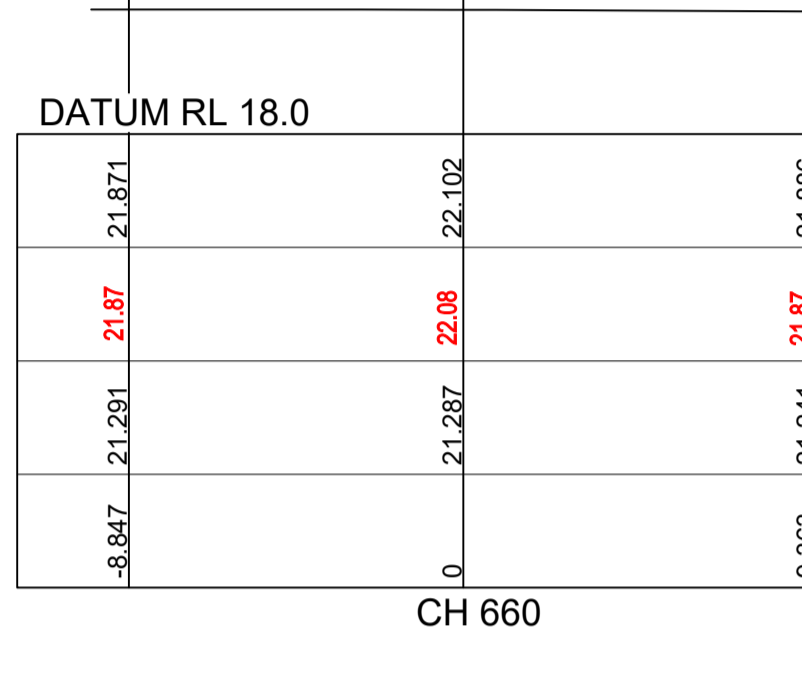
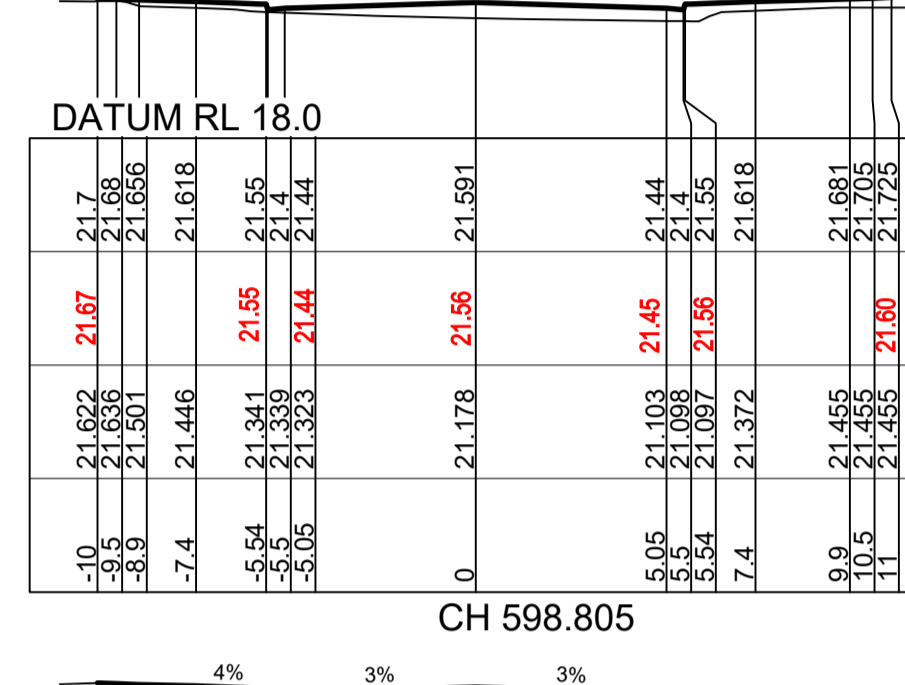
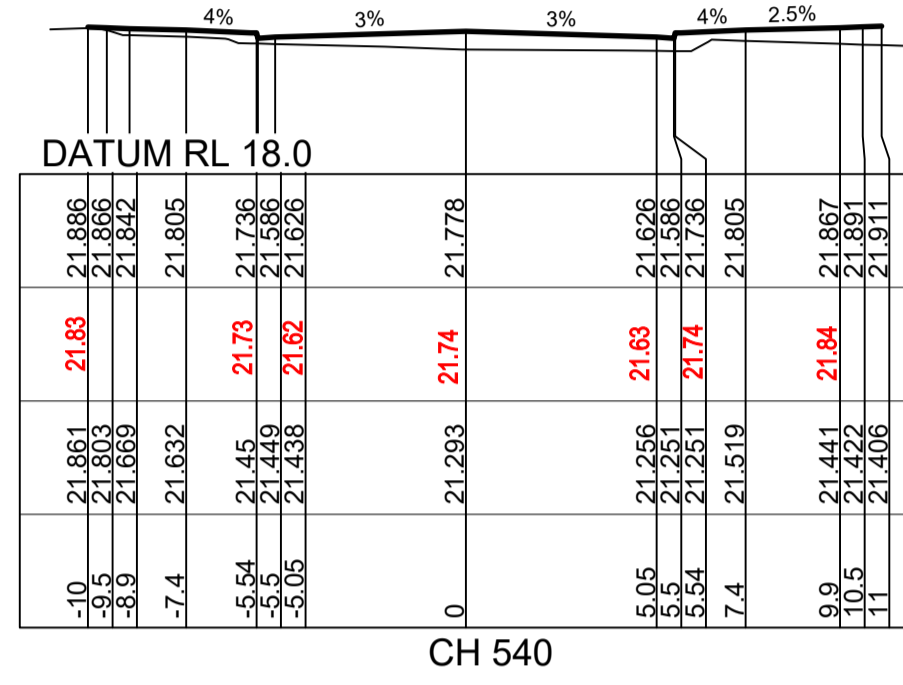
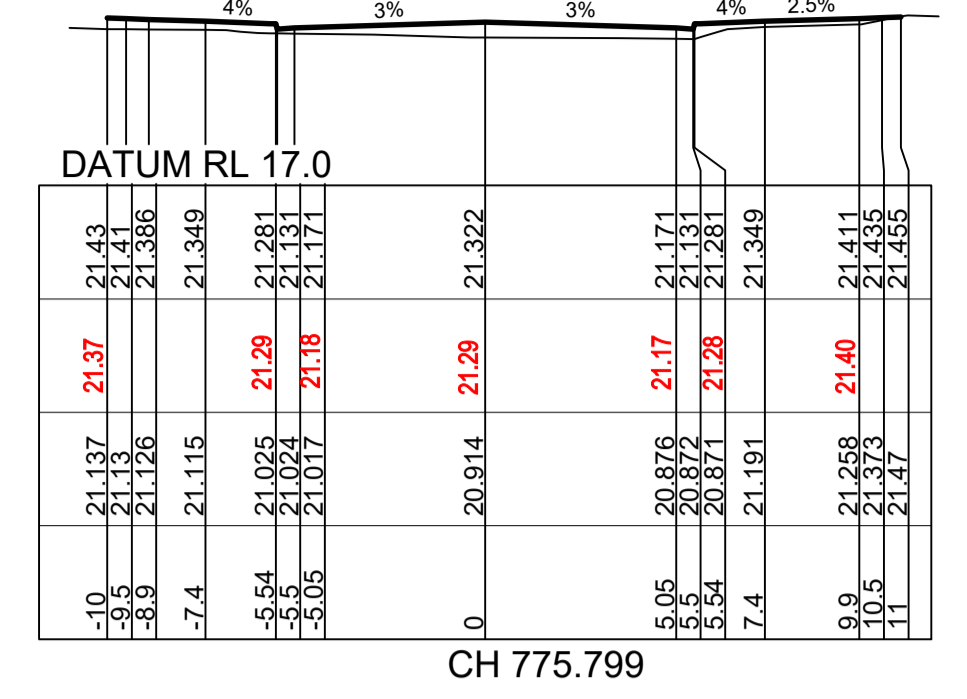
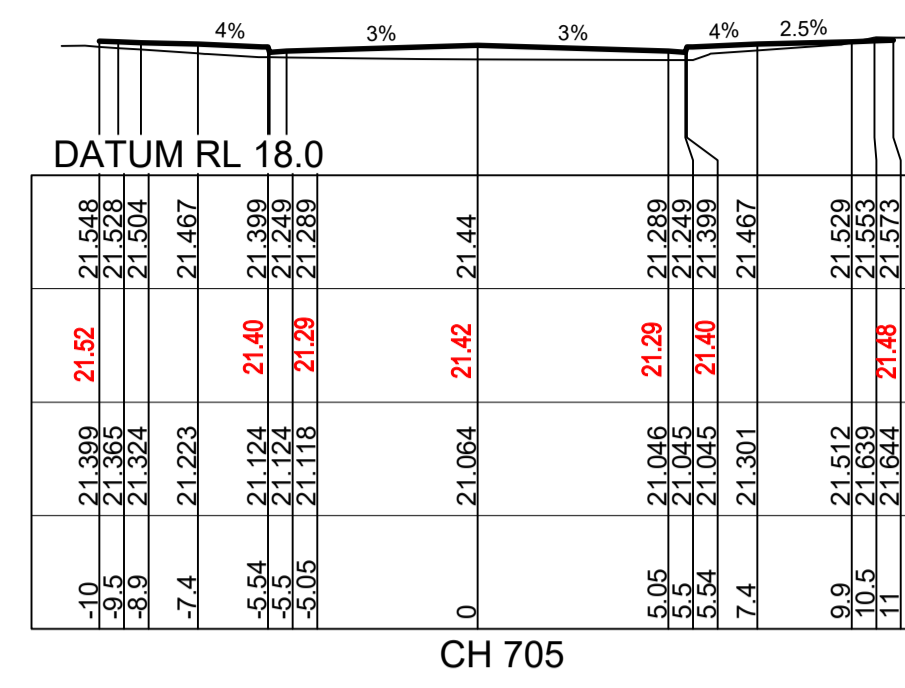
PLAN No: **9985-12-CC22104**

REFER TO ENGINEERING PLANS CC22011 TO CC22012 FOR LOT REGRADE



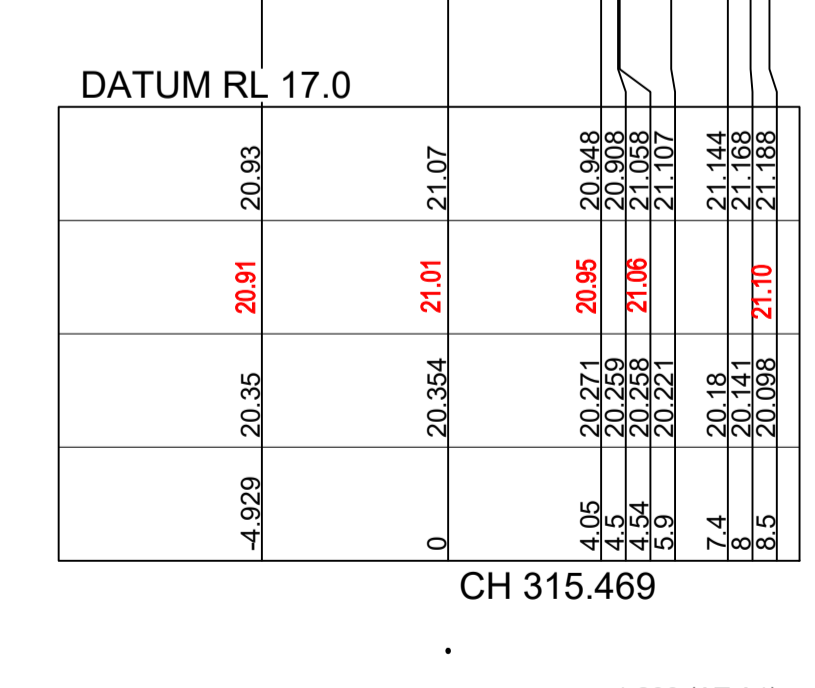
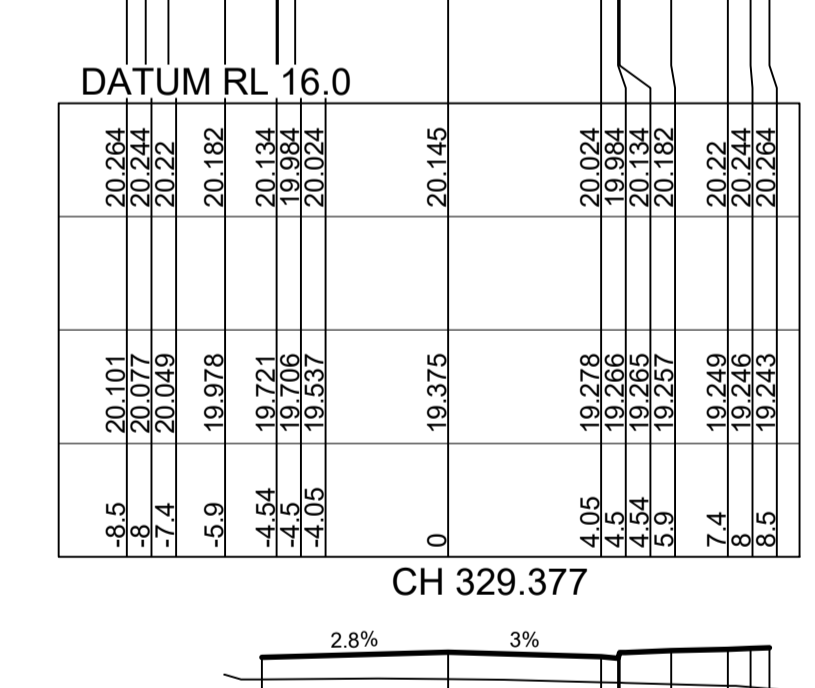
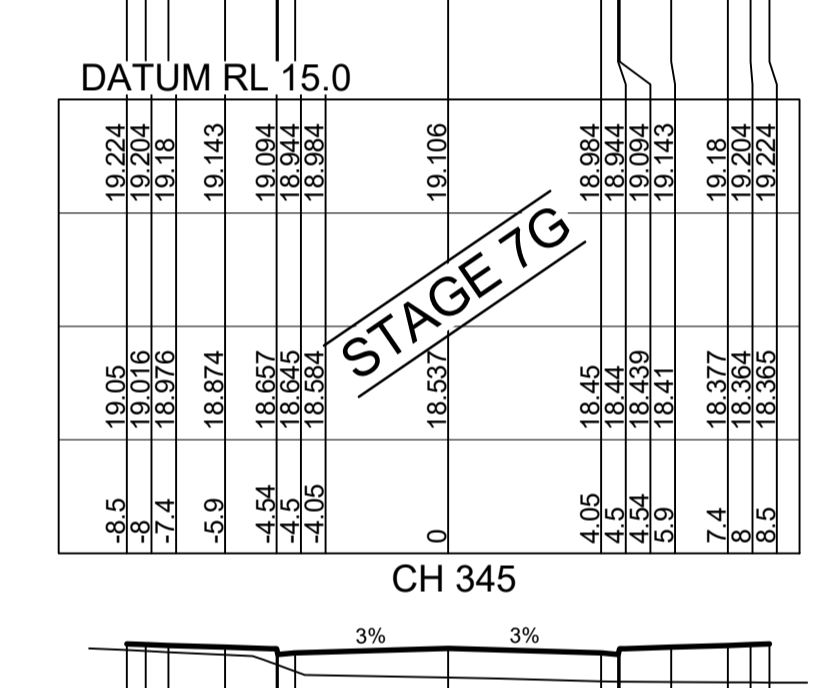
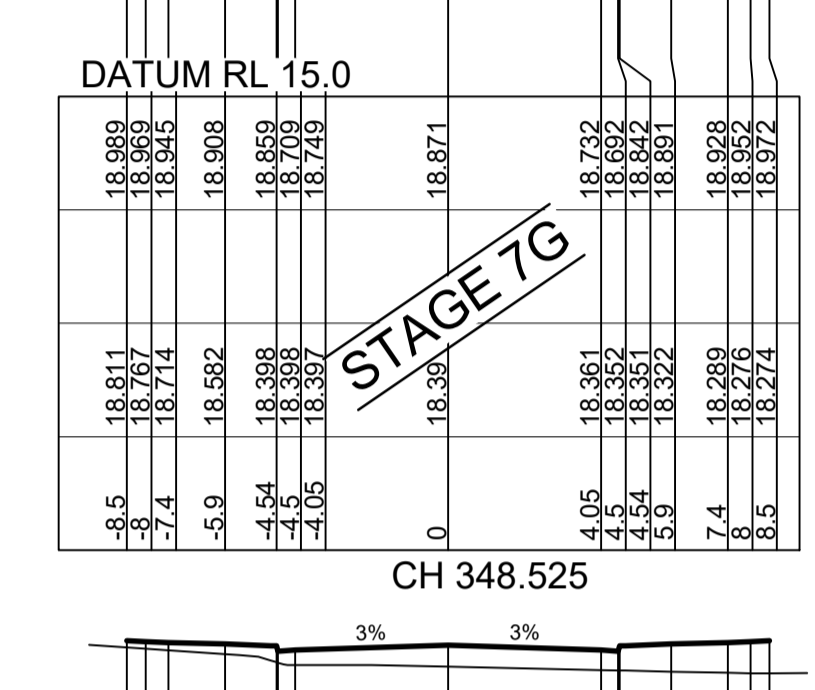
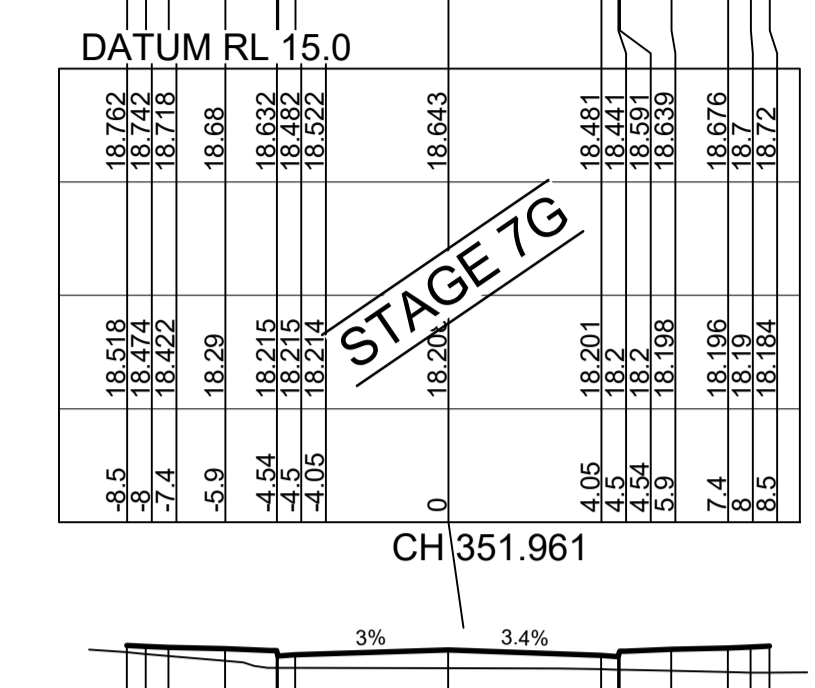
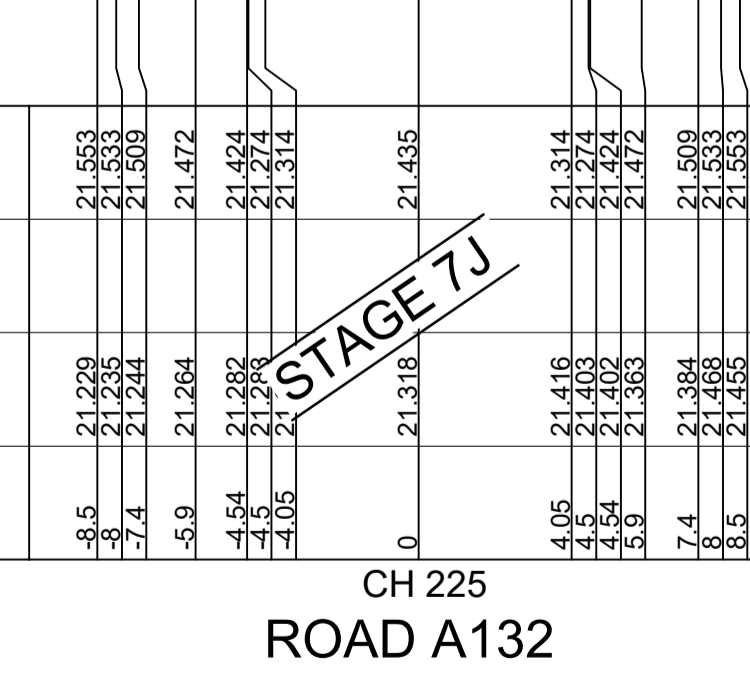
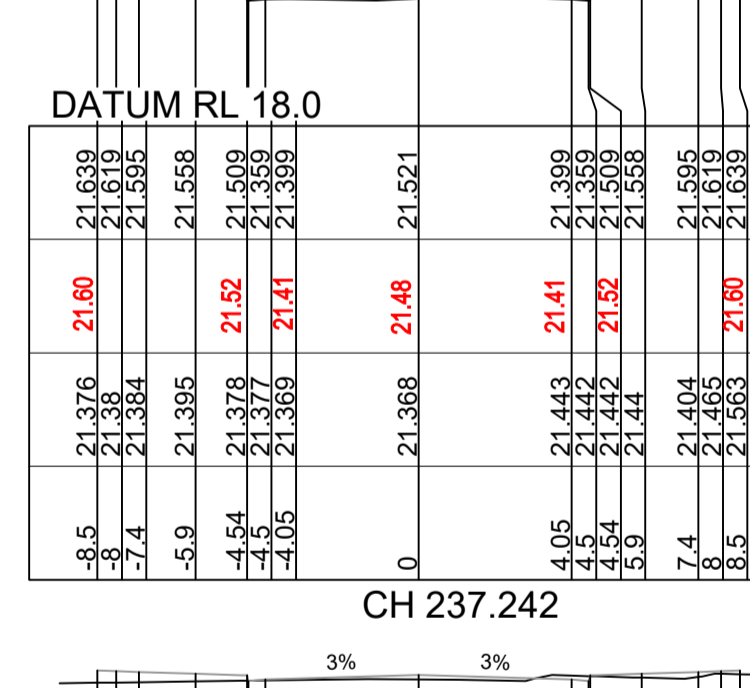
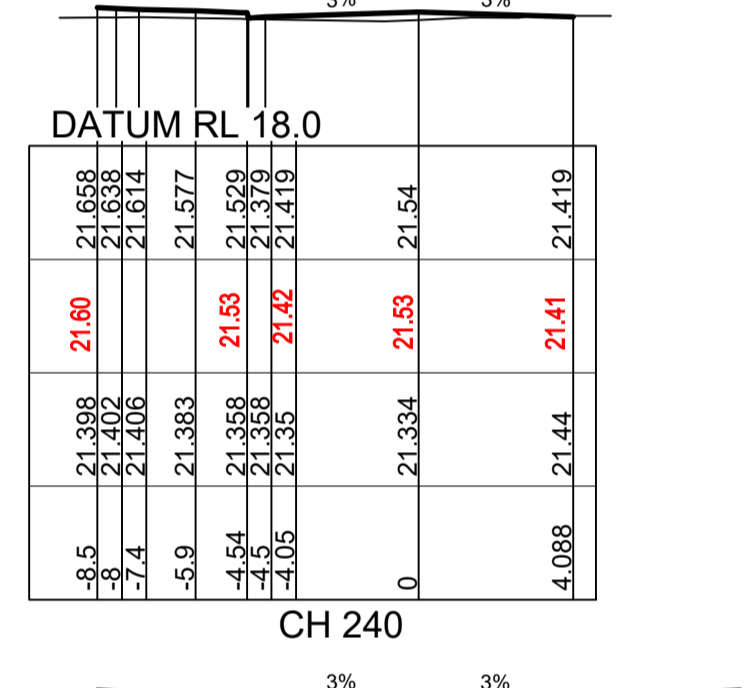
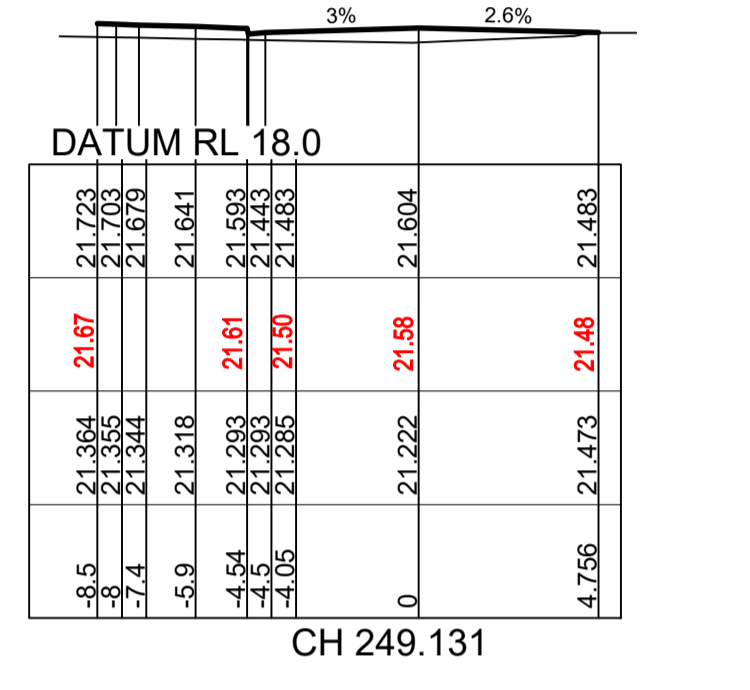
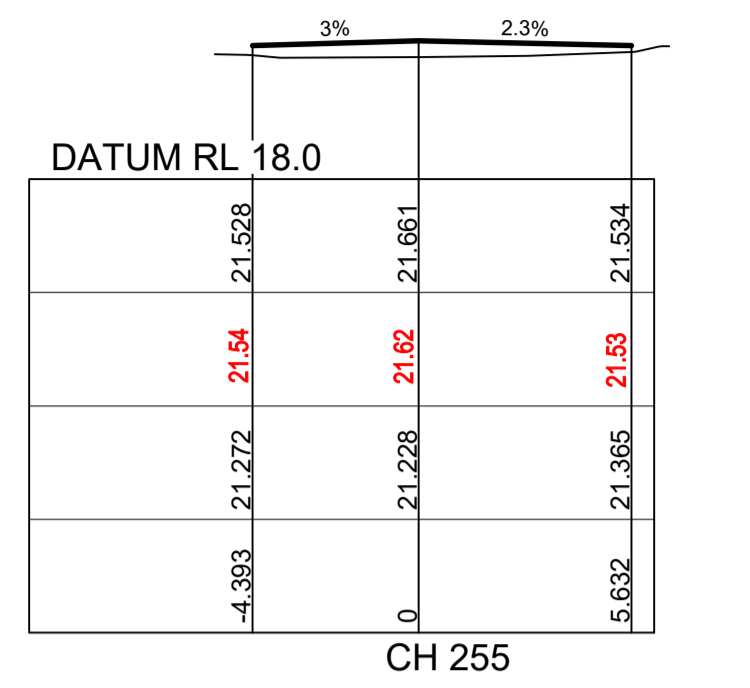
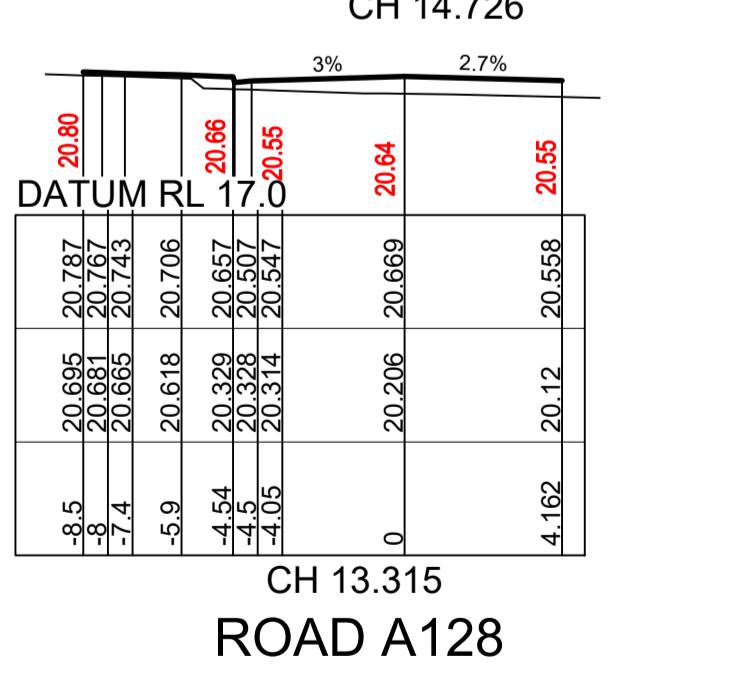
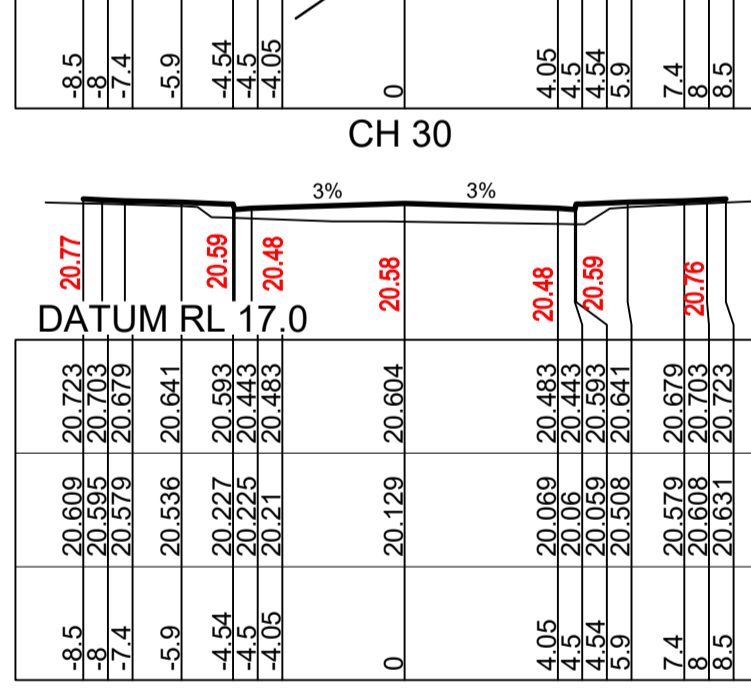
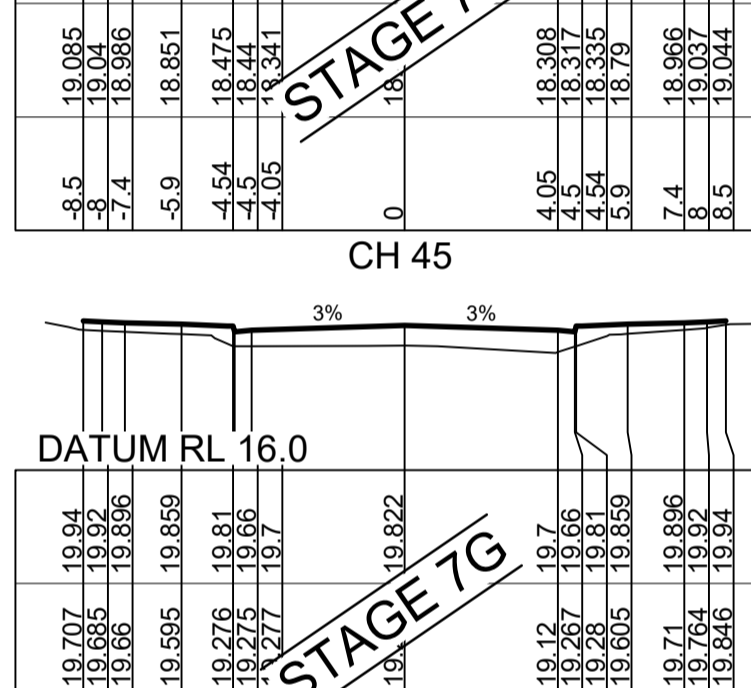
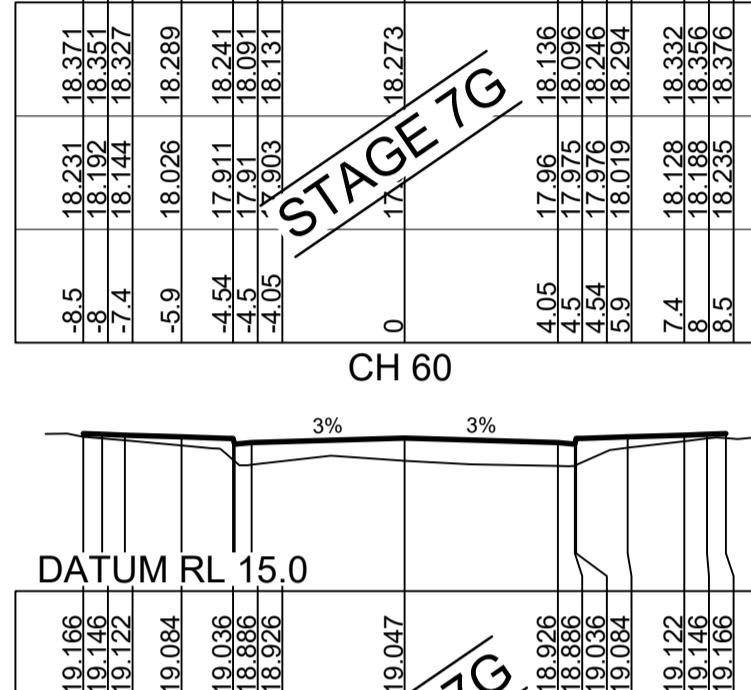
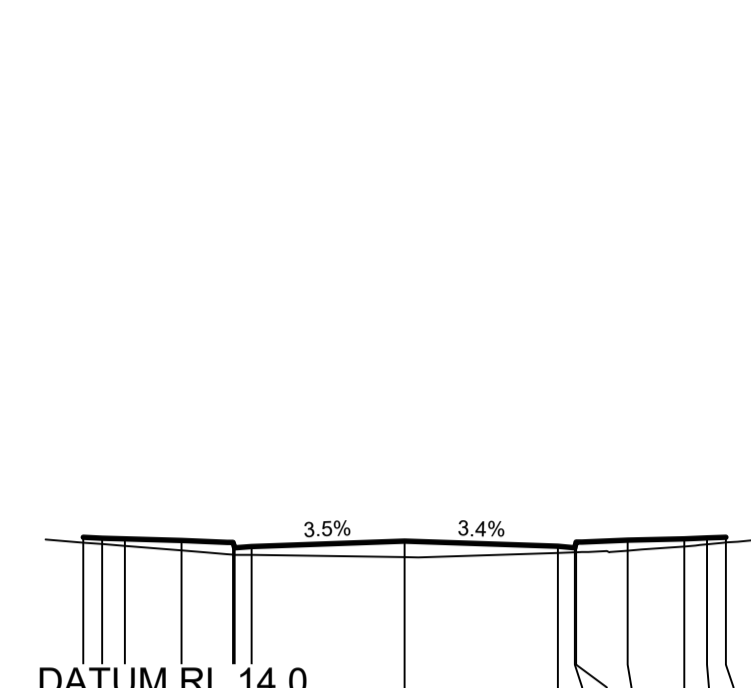
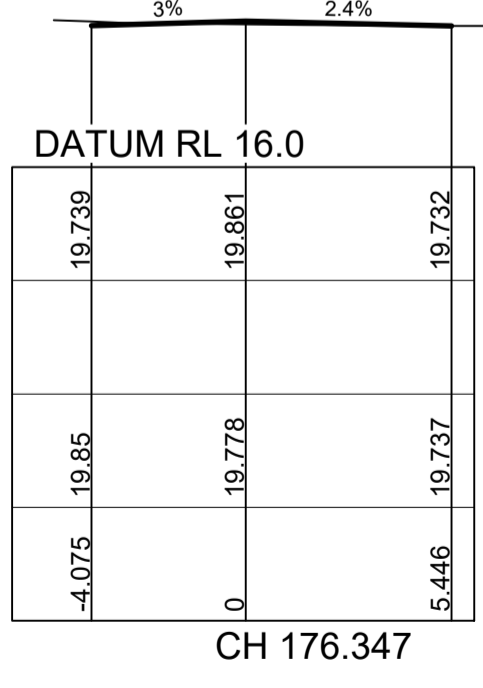
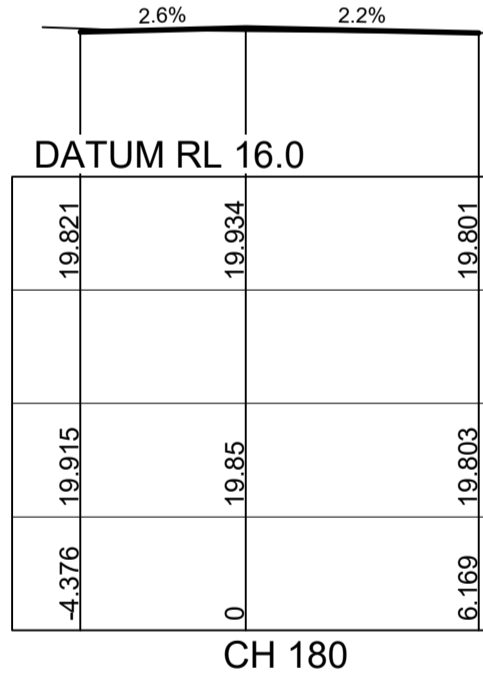
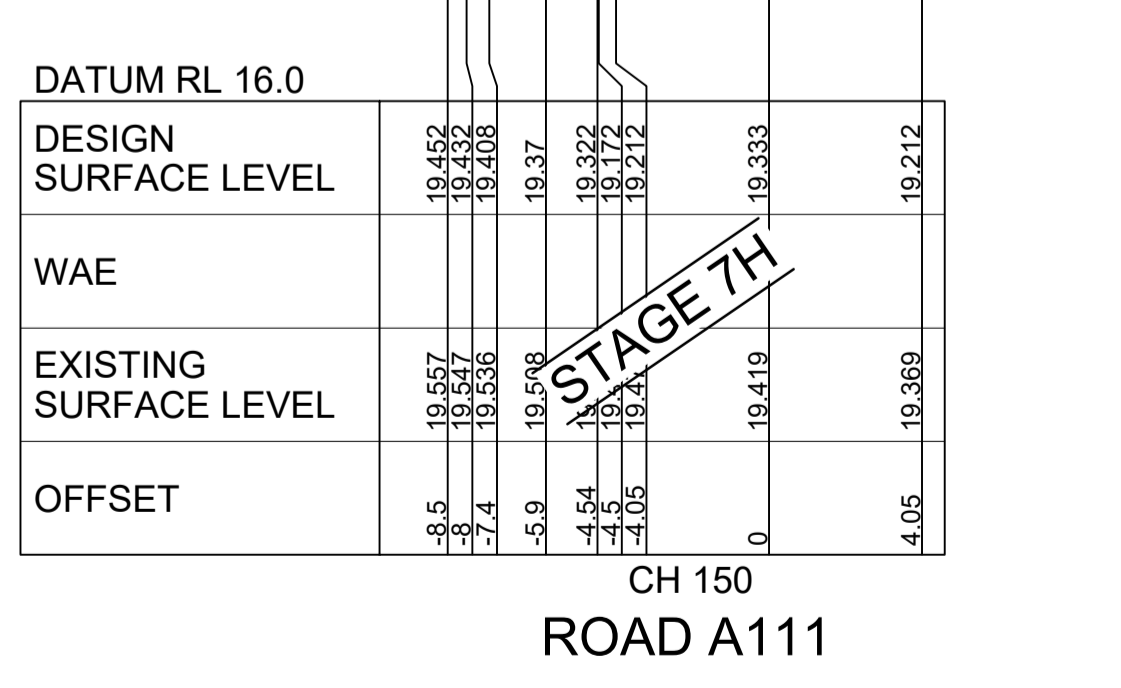
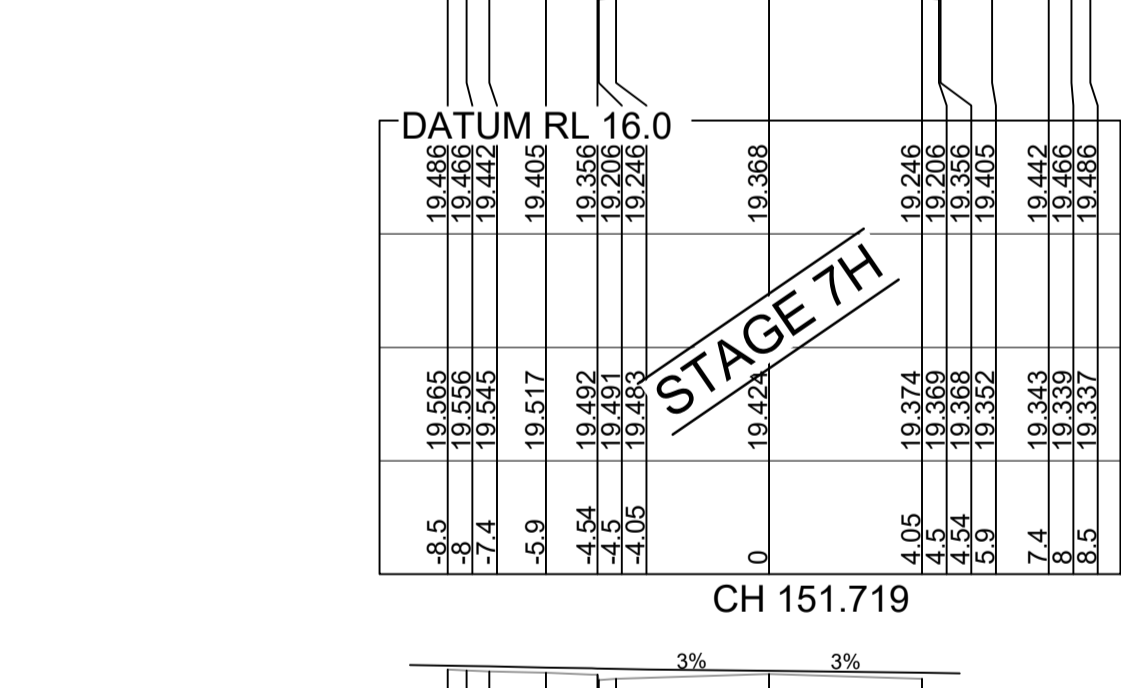
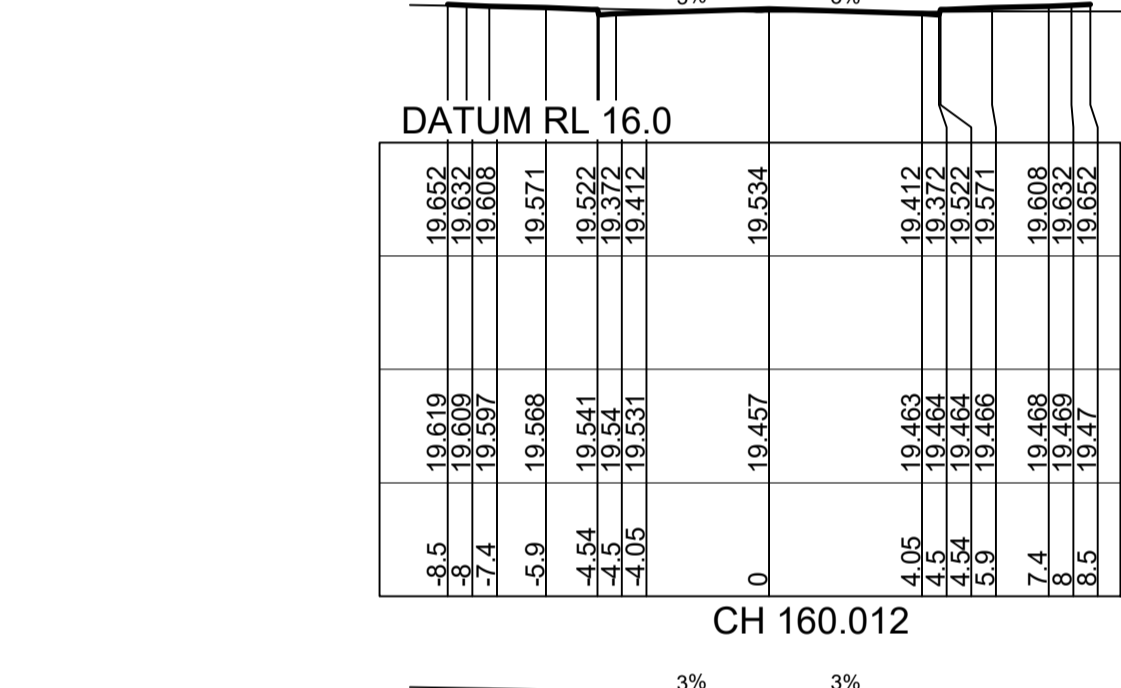
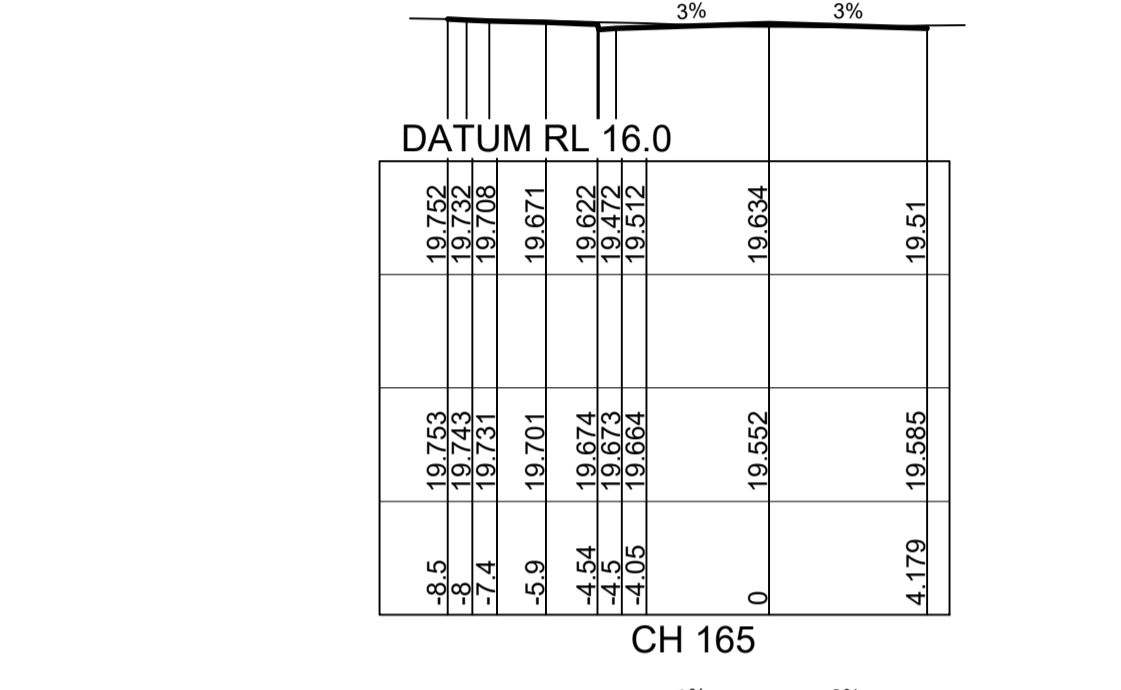
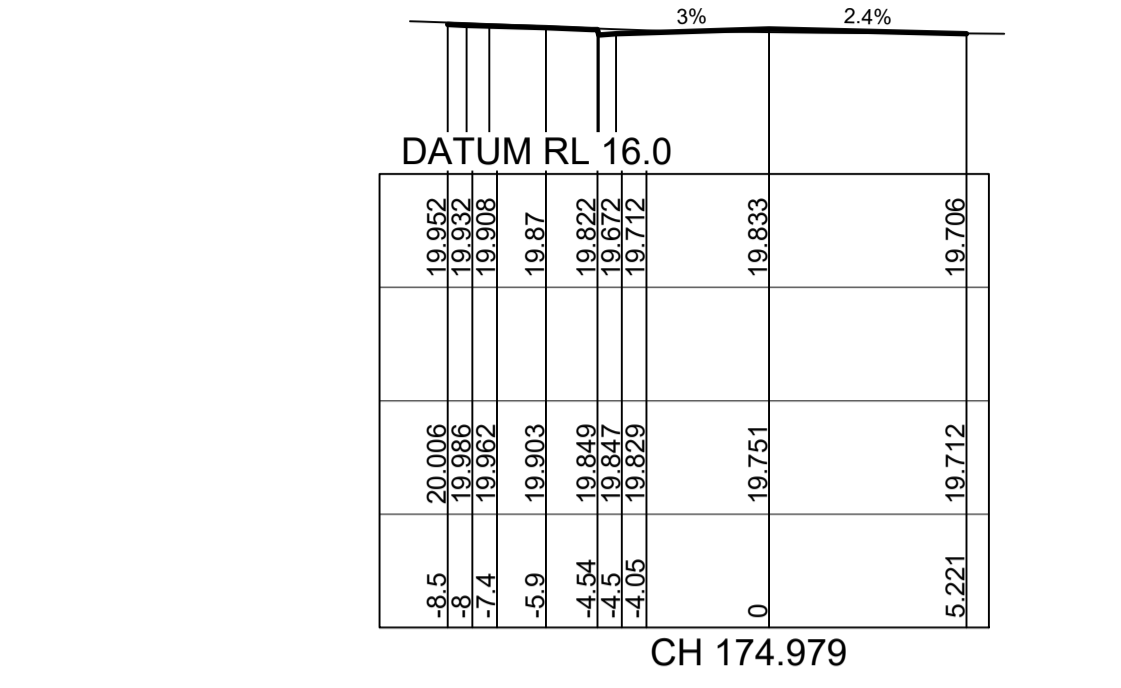
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



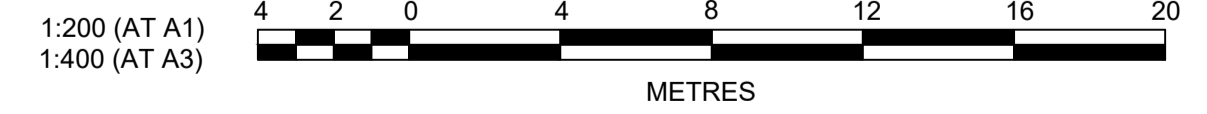
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REFER TO ENGINEERING
PLANS CC22011 TO CC22012
FOR LOT REGRADE



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTREN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

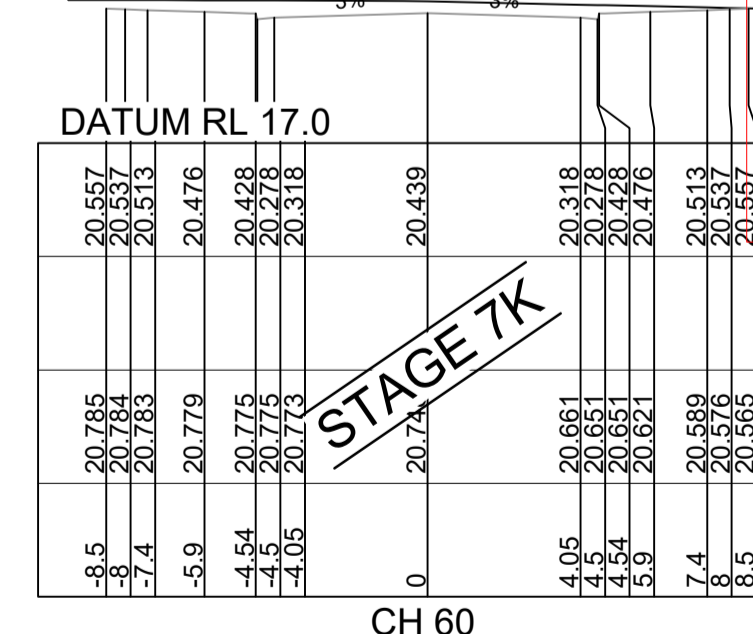
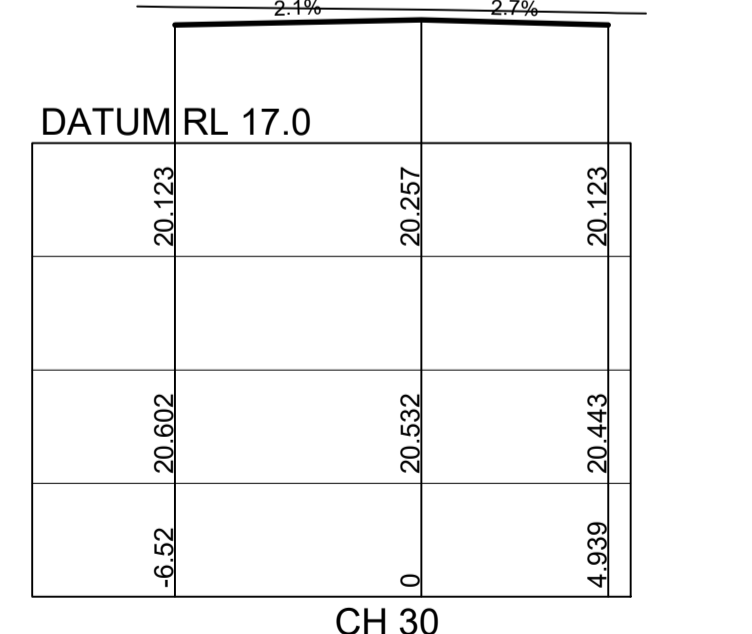
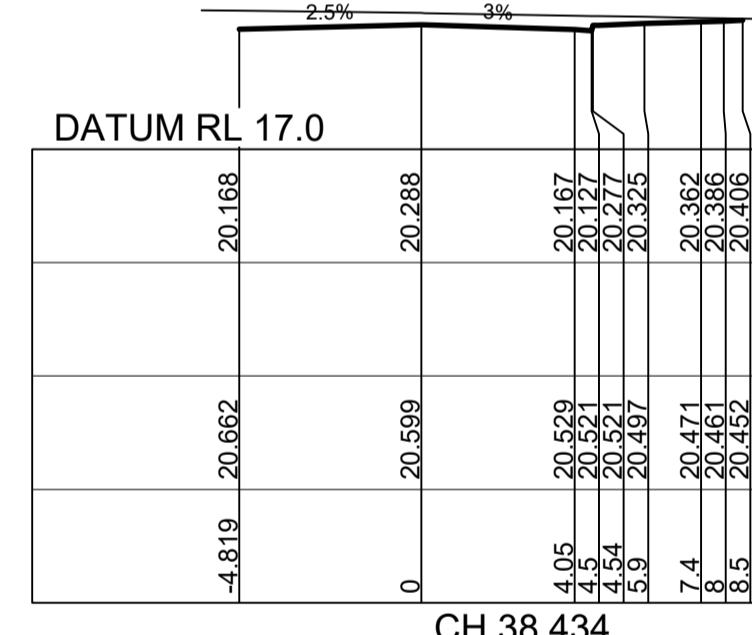
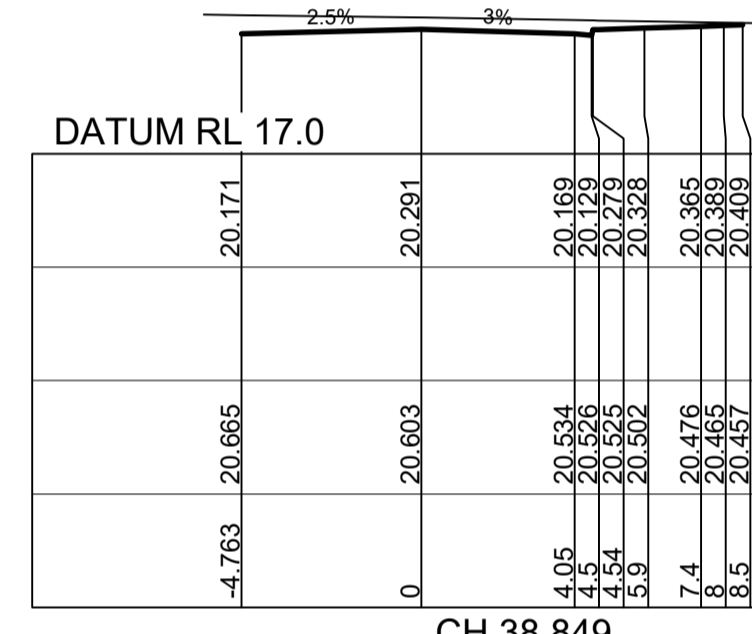
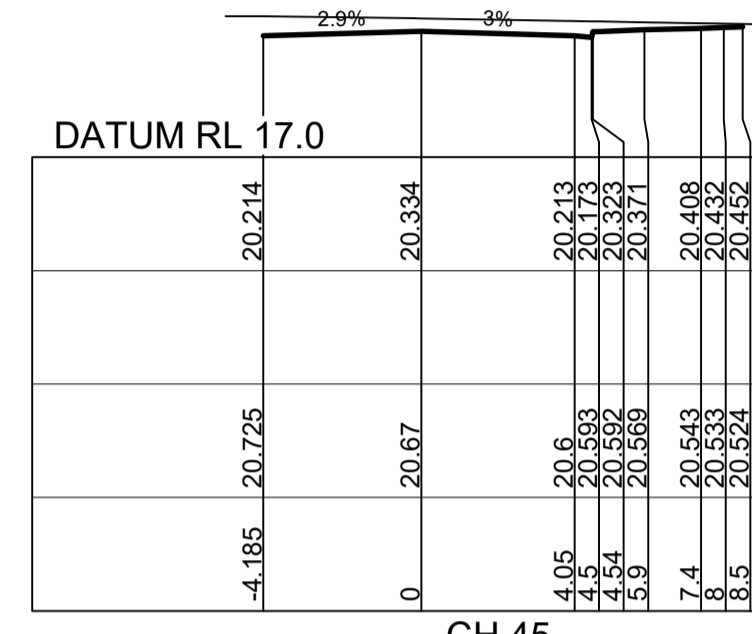
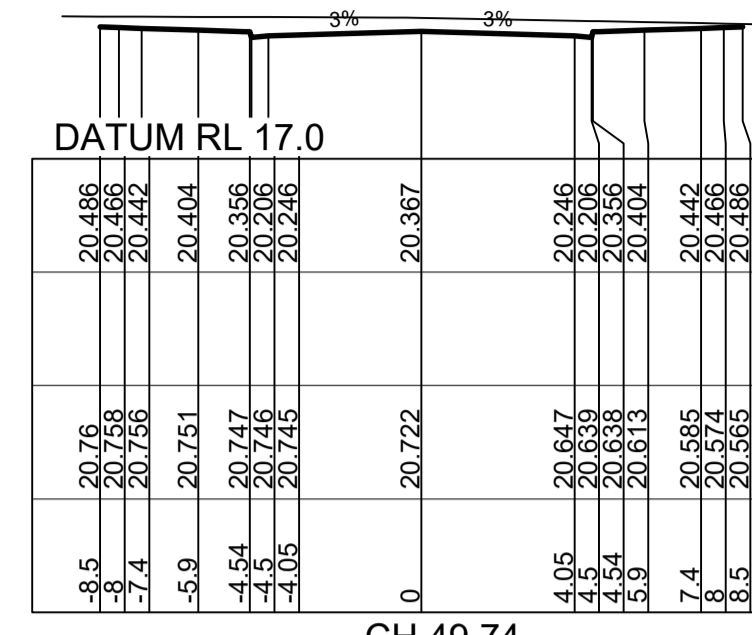
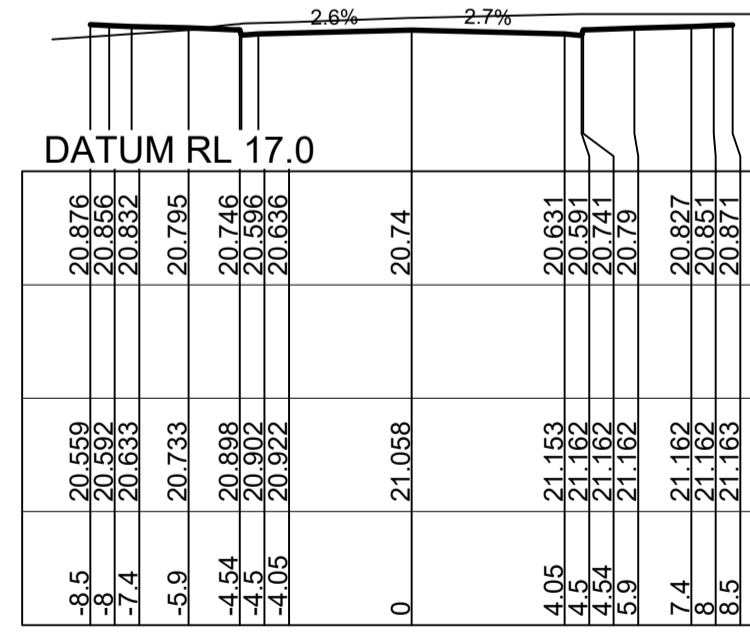
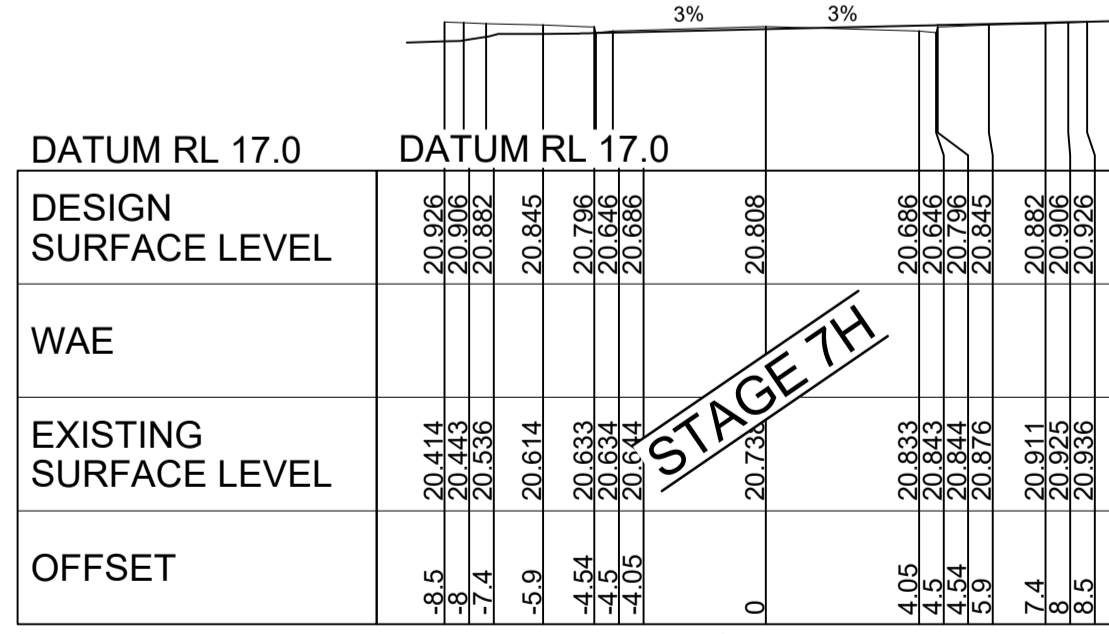
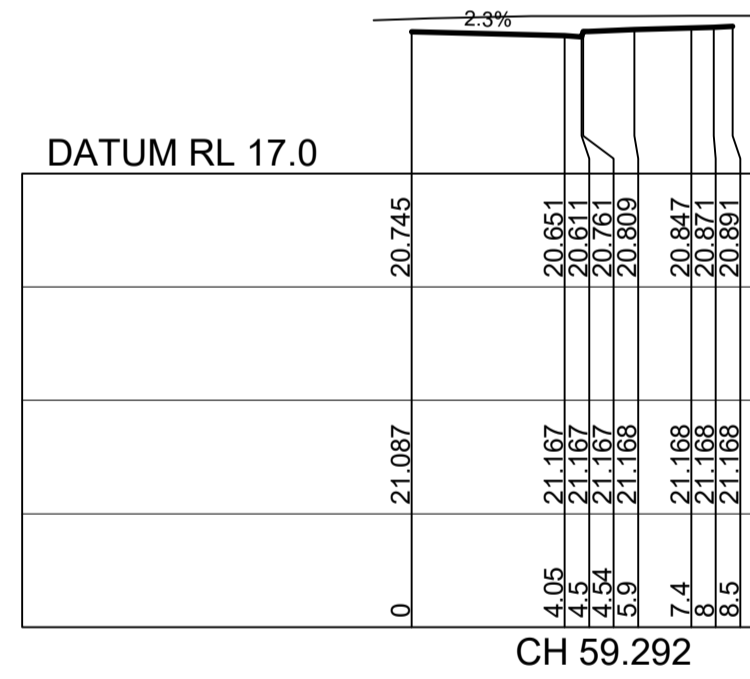
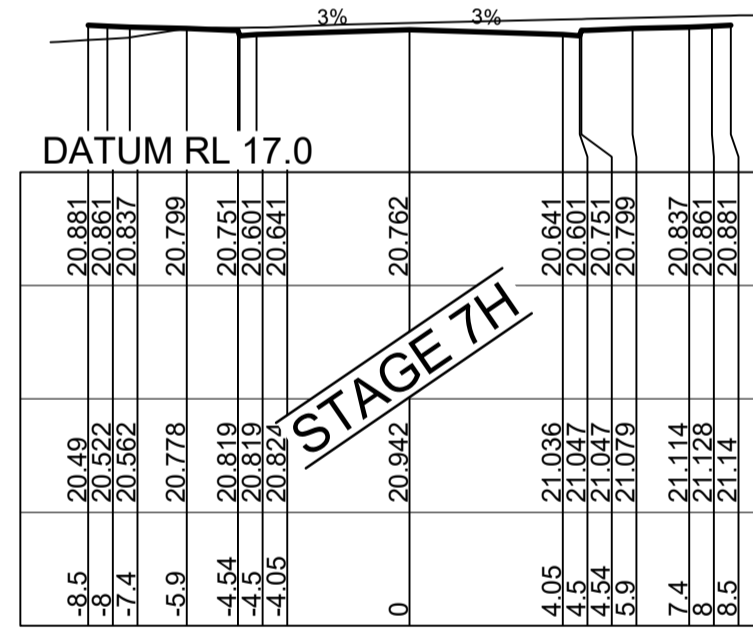
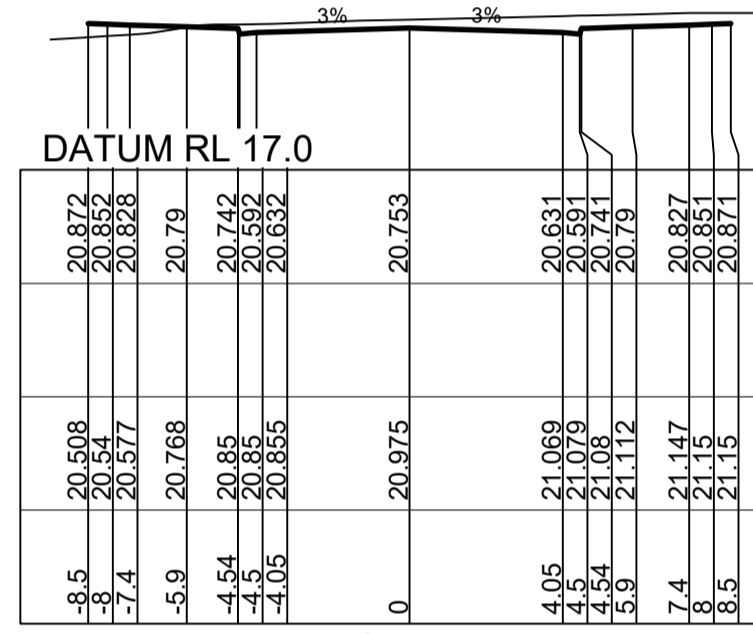
NEWPARK PRECINCT 7, ROAD A102 ROAD CROSS SECTIONS SHEET 5

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC2205**

PROJECT No: **9985-12**
 SHEET No: **CC2205**

Plotted: 28 July 2022 11:22:22 AM File Name: J:\0985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\985-12-CC22207.dwg

REFER TO ENGINEERING
PLANS CC2011 TO CC2012
FOR LOT REGRADE

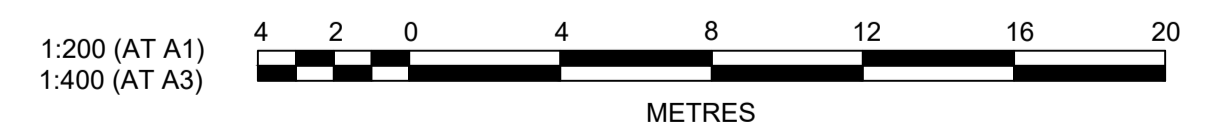


I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LDC Plans and specifications referenced in certificate no. 17799 issued by: Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au



ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102 ROAD CROSS SECTIONS SHEET 7

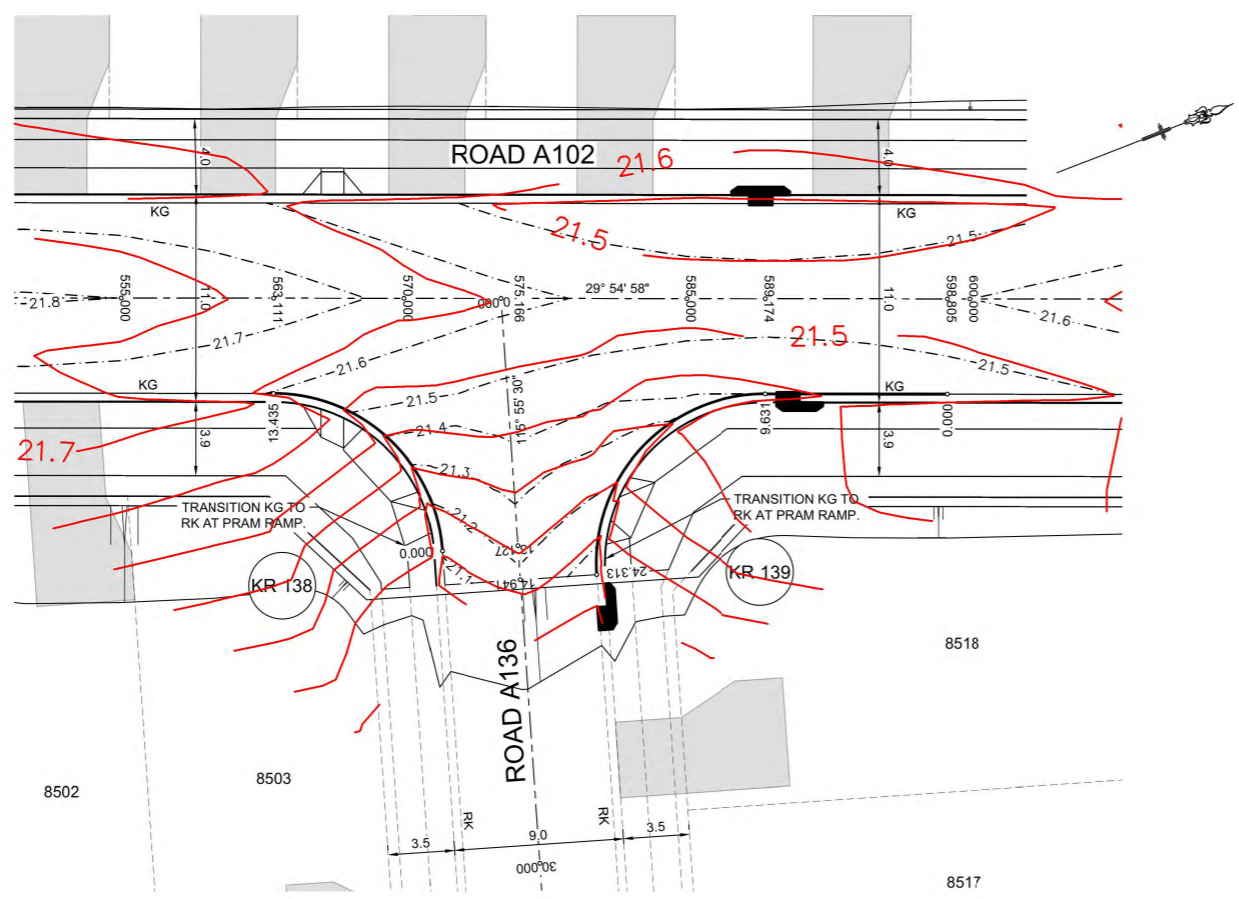
PROJECT No: **9985-12**
 SHEET No: **CC22207**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22207**

A

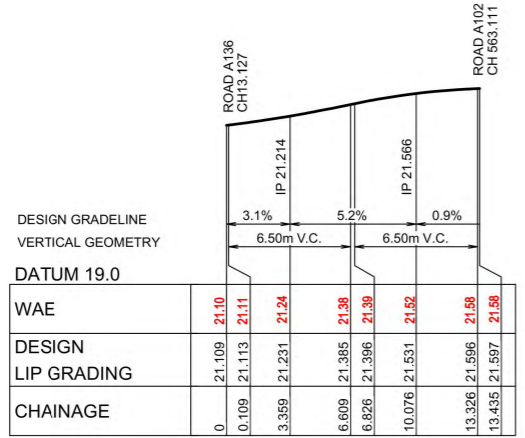
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7



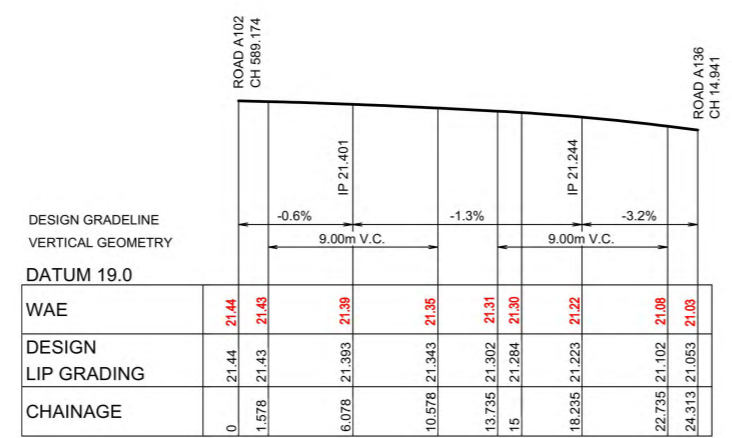
PLAN
SCALE 1:200

DESIGN LEVELS, RADII AND SETOUT ARE TO LIP OF GUTTER



KR 138
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295648.23	6269177.79	295°55'30.03"		
6.72	295640.71	6269181.44		-8.95	13.44
13.44	295636.55	6269174.2	209°54'57.89"		

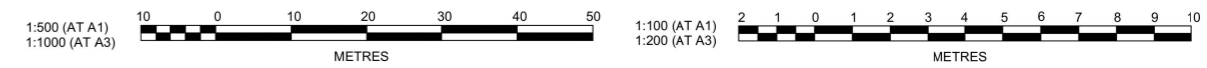


KR 139
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH
0	295644.35	6269205.14	209°54'57.89"		
9.63	295649.55	6269196.79	209°54'57.89"		
16.97	295644.76	6269188.47		-8.95	14.68
24.31	295653.39	6269184.28	115°55'30.03"		

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

Land Development Certificates
www.LDC.com.au



Plotfile: 28 July, 2022 11:23:34 AM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\985-12-CC22301.dwg

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUE FOR INFORMATION	28/07/22	MS	DG
2	AMENDMENT			

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102
KERB RETURNS
SHEET 1

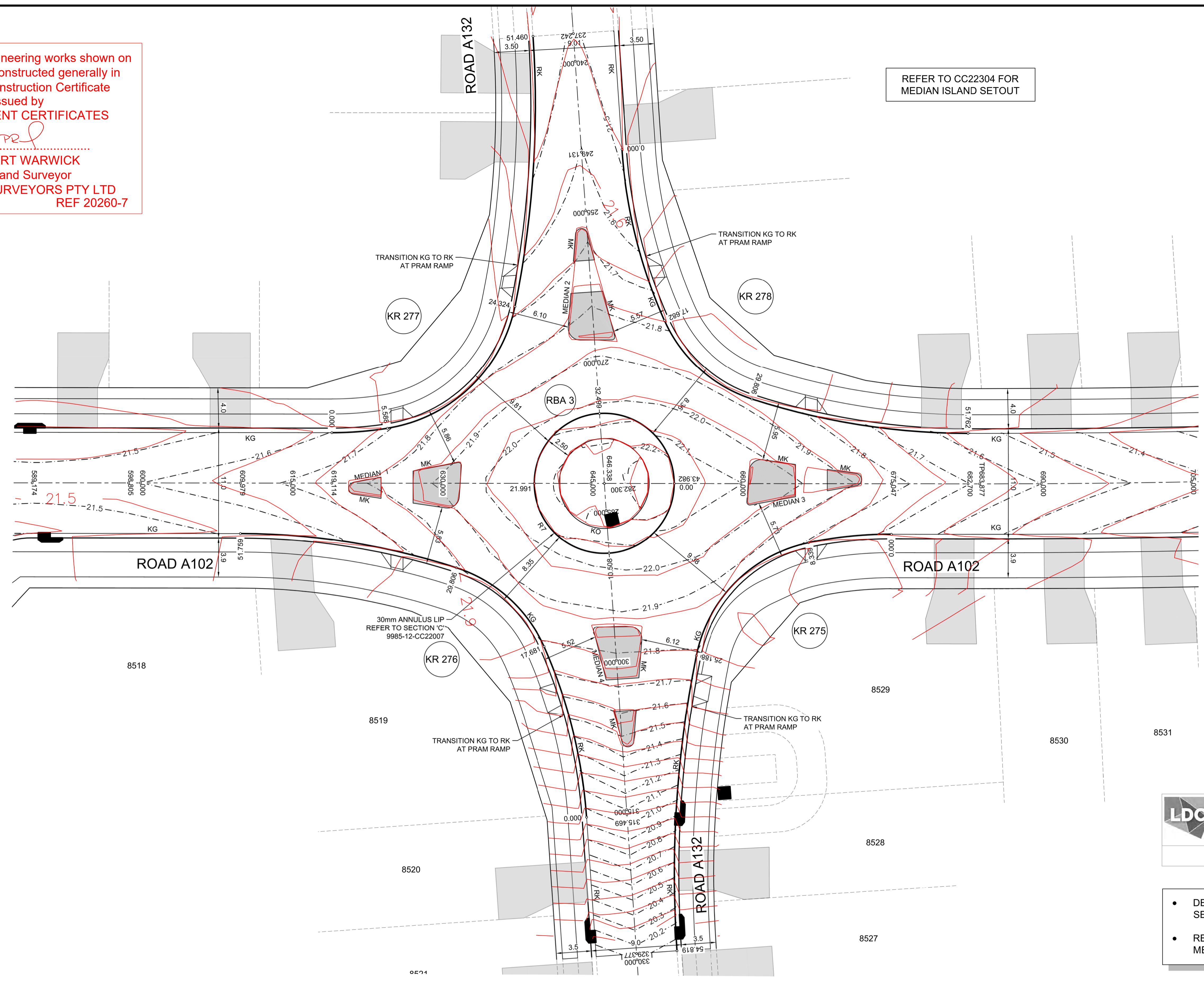
PROJECT No: **9985-12**
SHEET No: **CC22301**

PLANNING No: **9985-12-CC22301**

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

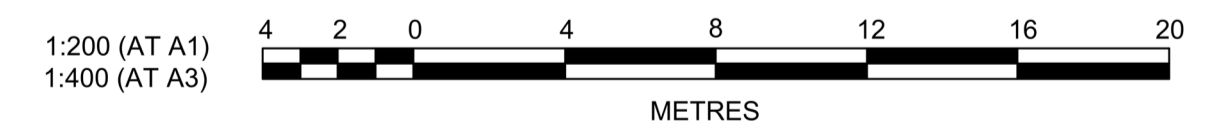
Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

REFER TO CC22304 FOR
 MEDIAN ISLAND SETOUT



LDC Plans and specifications referenced in certificate no. 17799 issued by **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision Land Development Certificates www.LDC.com.au

- DESIGN LEVELS, RADII AND SETOUT ARE TO LIP OF GUTTER
- REFER TO 9985-12-CC22304 FOR MEDIAN ISLAND SETOUT



PLAN
 SCALE 1:200

Plotfile: 28 July, 2022 11:24:20 AM File Name: J:\9985DICC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\9985-12-CC22302.dwg

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
1	ISSUE FOR INFORMATION	28/07/22	MS	DG	NJ
2	AMENDMENT		DES	DRN	CKD

J. WYNDHAM PRINCE
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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

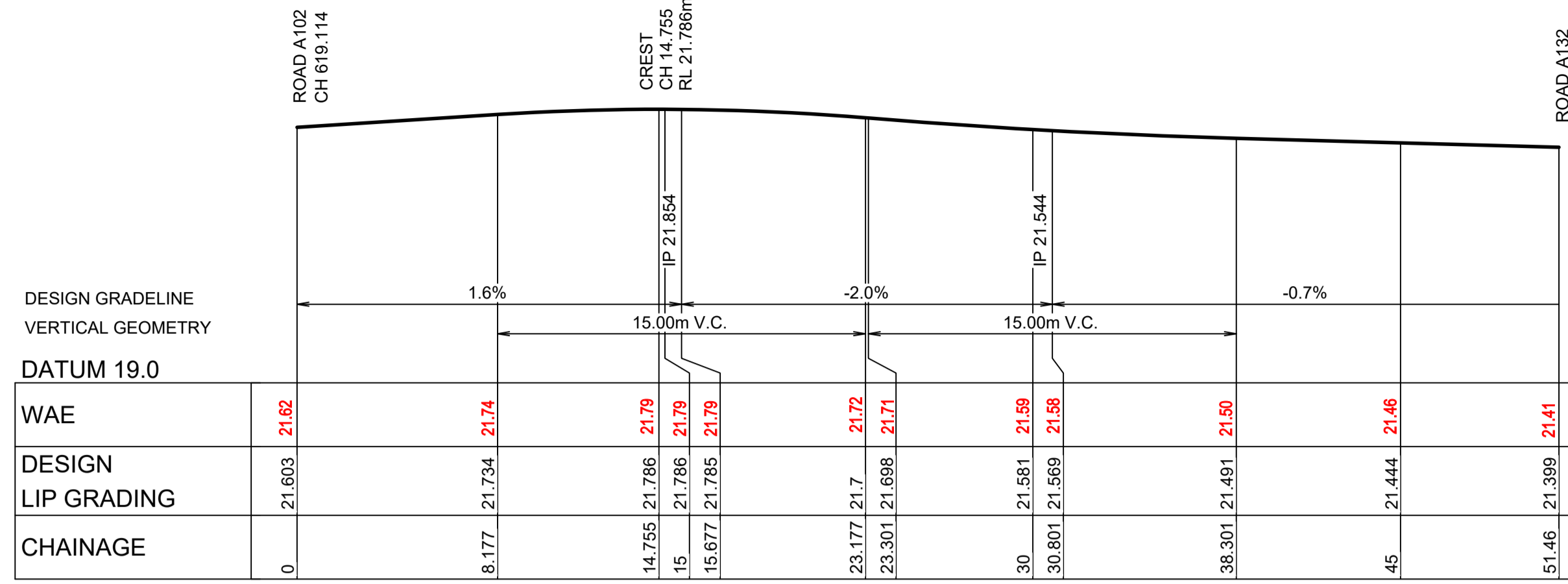
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK
 PRECINCT 7, ROAD A102
 KERB RETURNS
 SHEET 2

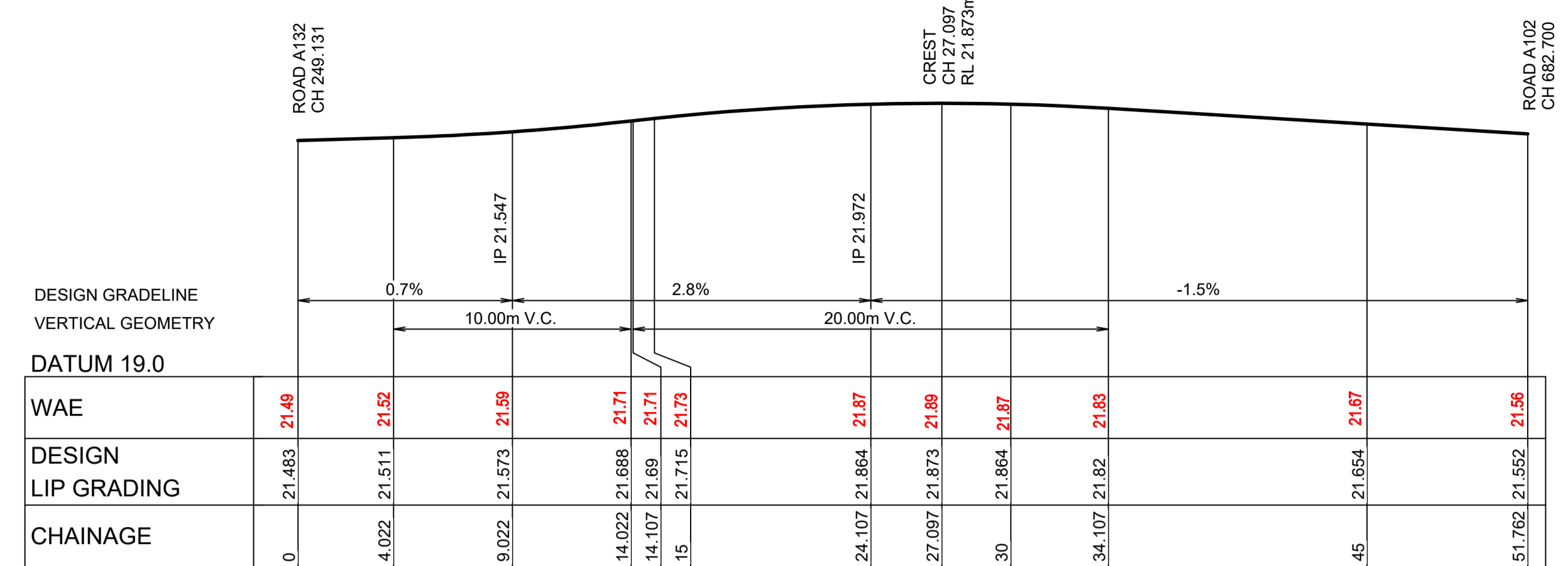
PROJECT No: **9985-12**
 SHEET No: **CC22302**

PLAN No: **9985-12-CC22302**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112



KR 277
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

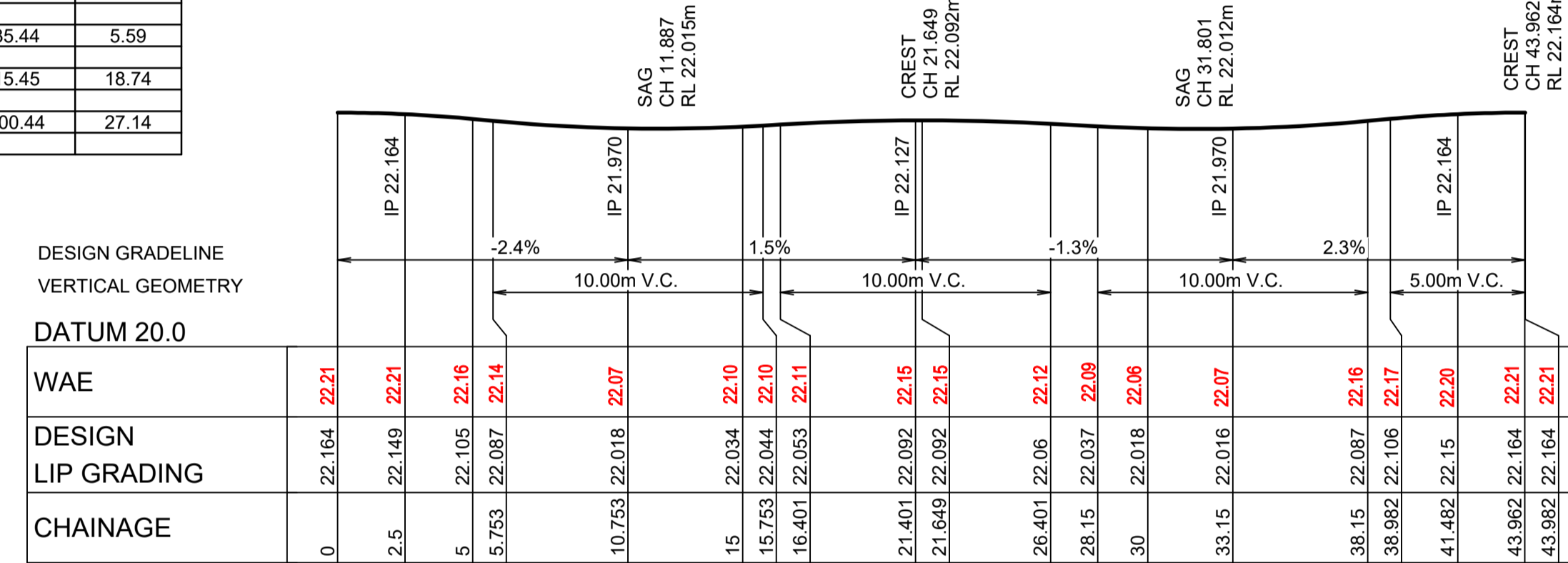


KR 278
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

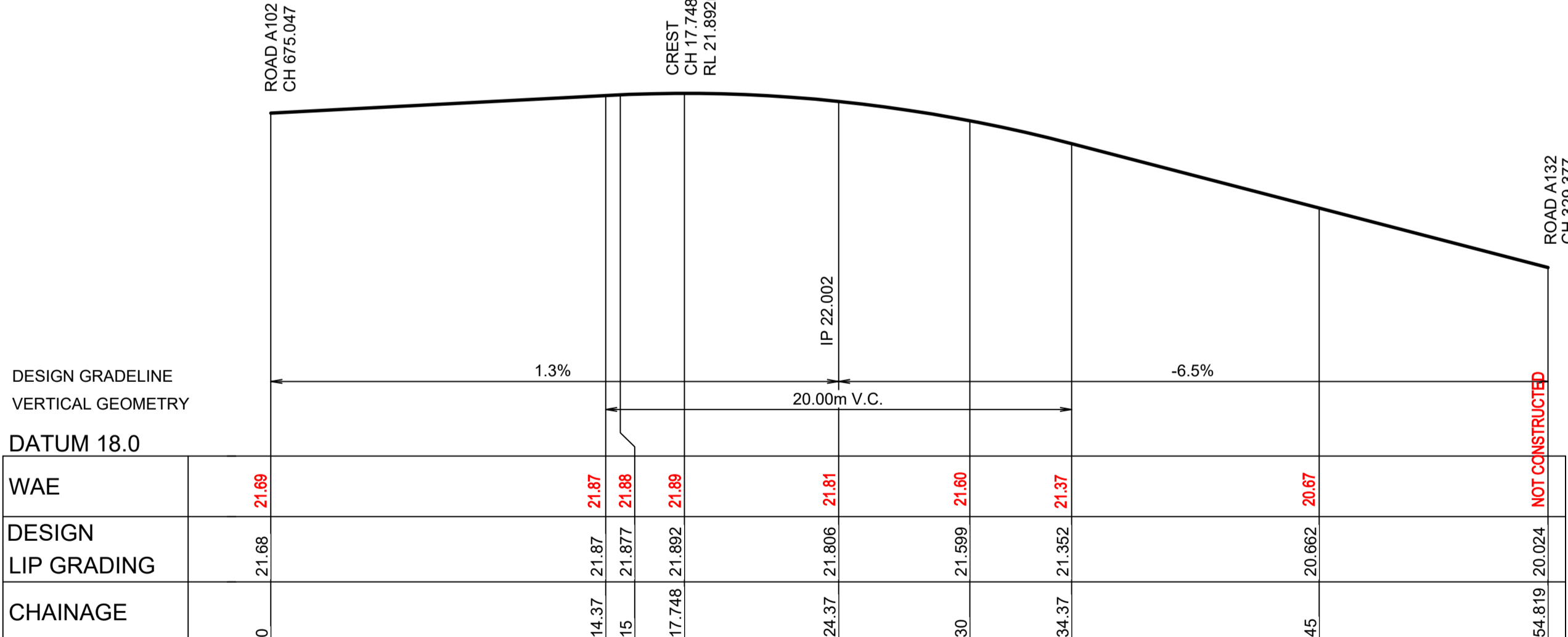
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295655.73	6269227.78	29°55'01.96"		
2.79	295657.12	6269230.21		-35.44	5.59
5.59	295658.12	6269232.82	20°53'00.04"		
14.96	295661.94	6269242.83		-15.45	18.74
24.32	295653.9	6269249.92	311°24'12.55"		
37.89	295643.66	6269258.95		-100.44	27.14
51.46	295631.39	6269264.92	295°55'27.15"		



RBA 3
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

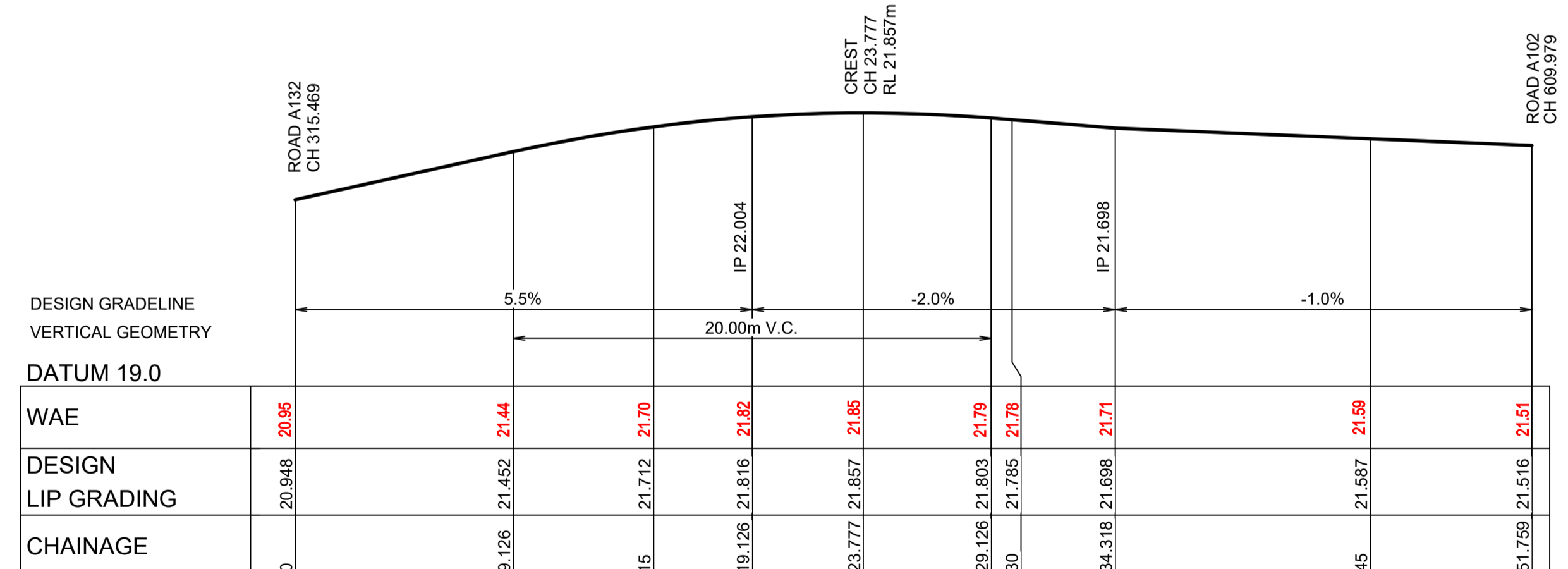
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295645.62	6269267.1	115°55'29.73"		
8.84	295653.65	6269263.1		-50.45	17.68
17.68	295662.54	6269262.19	95°50'37.46"		
23.74	295668.95	6269261.53		-14.45	12.12
29.81	295673.72	6269265.86	47°46'23.40"		
40.78	295681.92	6269273.3		-70.45	21.96
51.76	295687.44	6269282.89	29°54'56.53"		

CHAINAGE	EASTING	NORTHING	RAD/SPIRAL	A.LENGTH
0	295677.17	6269254.93		
5.25	295682.83	6269251.67	7	10.51
10.51	295679.98	6269245.8		
16.25	295676.7	6269239.05	7	11.48
21.99	295670.19	6269242.79		
27.24	295664.53	6269246.05	7	10.51
32.5	295667.39	6269251.92		
38.24	295670.67	6269258.67	7	11.48



KR 275
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

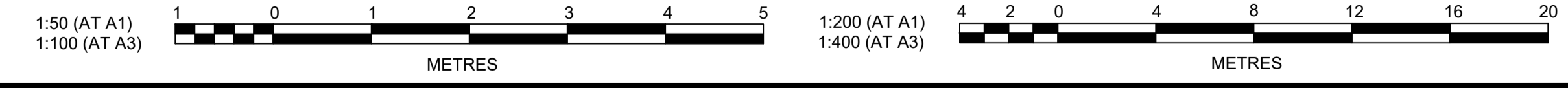
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295692.38	6269271.22	209°54'57.74"		
4.17	295690.29	6269267.6		-40.45	8.34
8.34	295688.99	6269263.62	198°06'16.30"		
16.76	295686.03	6269254.56		-14.45	16.85
25.19	295693.19	6269248.27	131°17'47.99"		
40	295704.39	6269238.44		-110.44	29.63
54.82	295717.79	6269231.92	115°55'28.73"		



KR 276
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295701.74	6269230.71	295°55'28.24"		
8.84	295693.71	6269234.62		-50.45	17.68
17.68	295684.82	6269235.53	275°50'44.06"		
23.74	295678.41	6269236.19		-14.45	12.12
29.81	295673.64	6269231.85	227°46'15.20"		
40.78	295665.44	6269224.42		-70.45	21.95
51.76	295659.93	6269214.82	209°55'01.35"		

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au



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ISSUE FOR INFORMATION	AMENDMENT	KE/DG	NJ	DG	MS	28/07/22
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J. WYNDHAM PRINCE
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PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

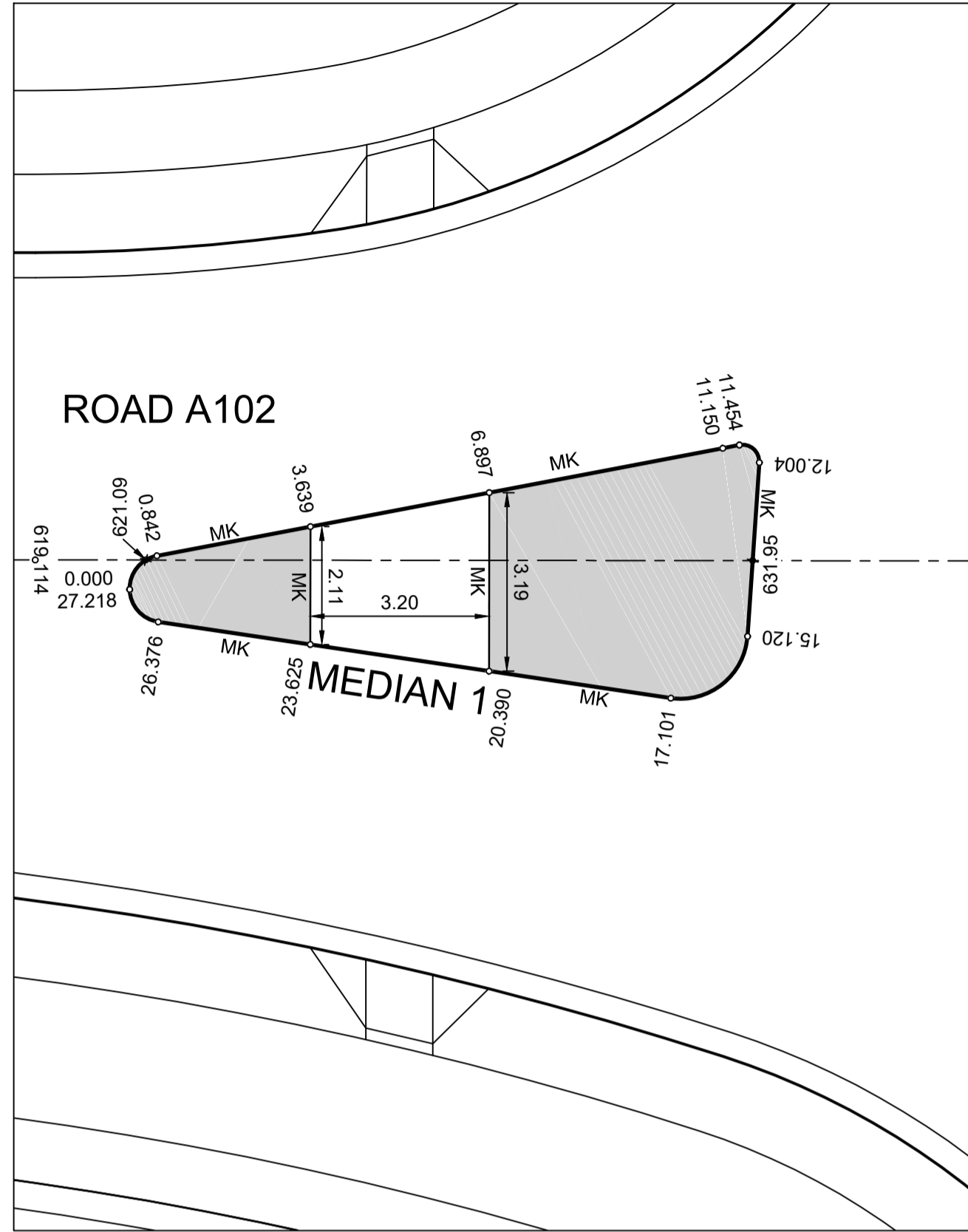
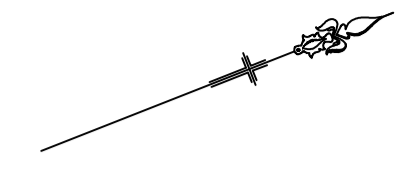
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, ROAD A102 KERB RETURNS SHEET 3

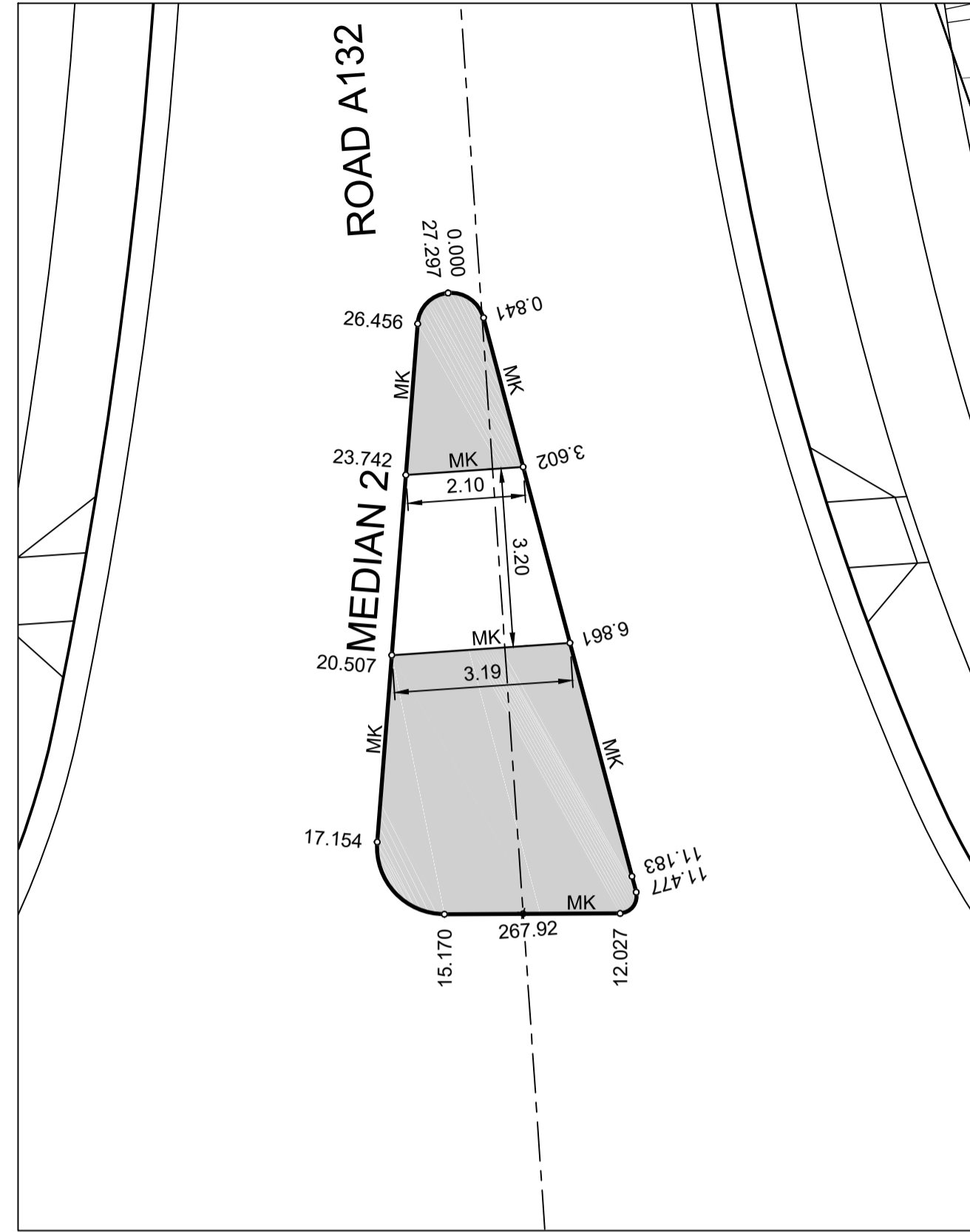
PROJECT No: **9985-12**
 SHEET No: **CC22303**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22303**

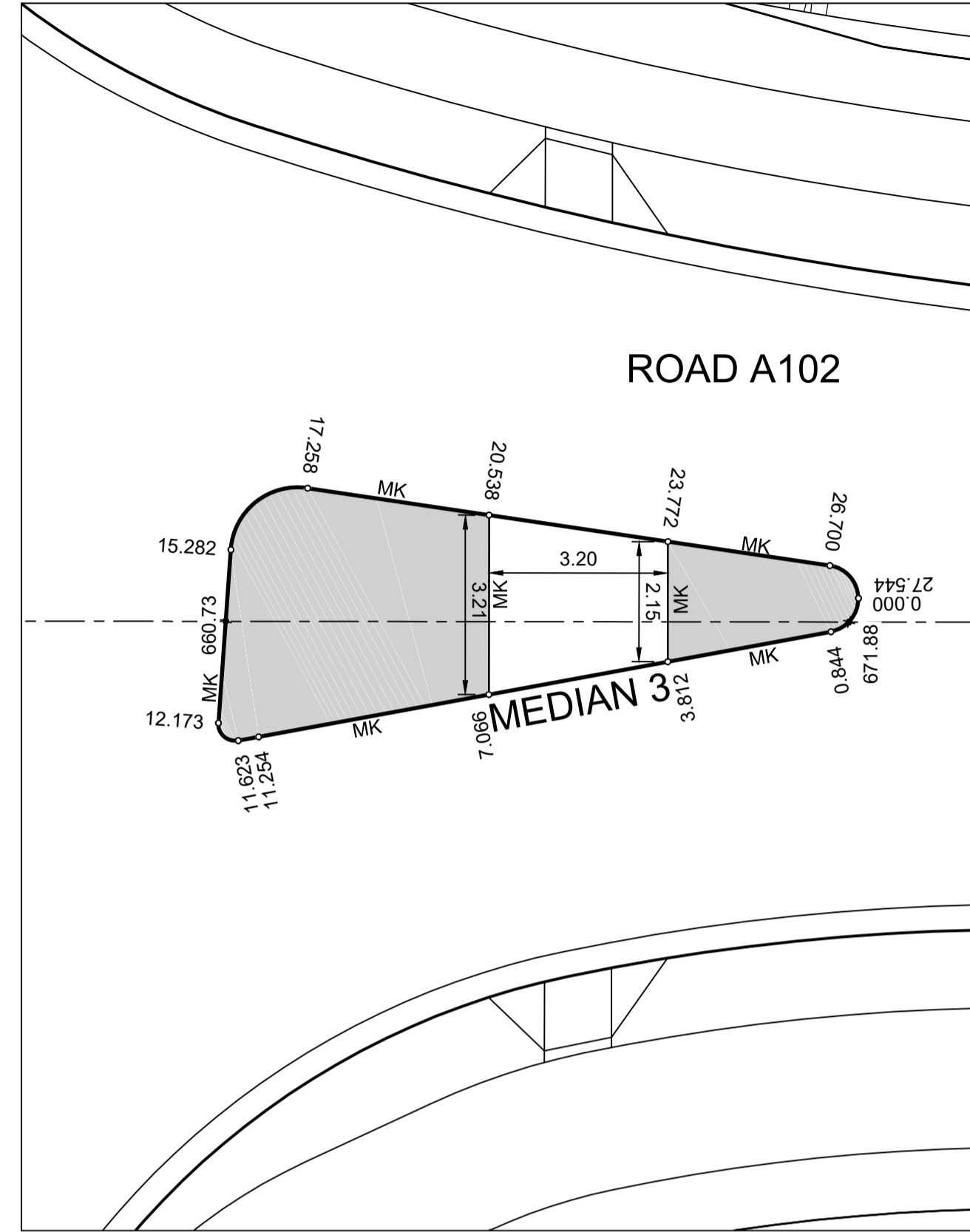
9985-12
CC22303



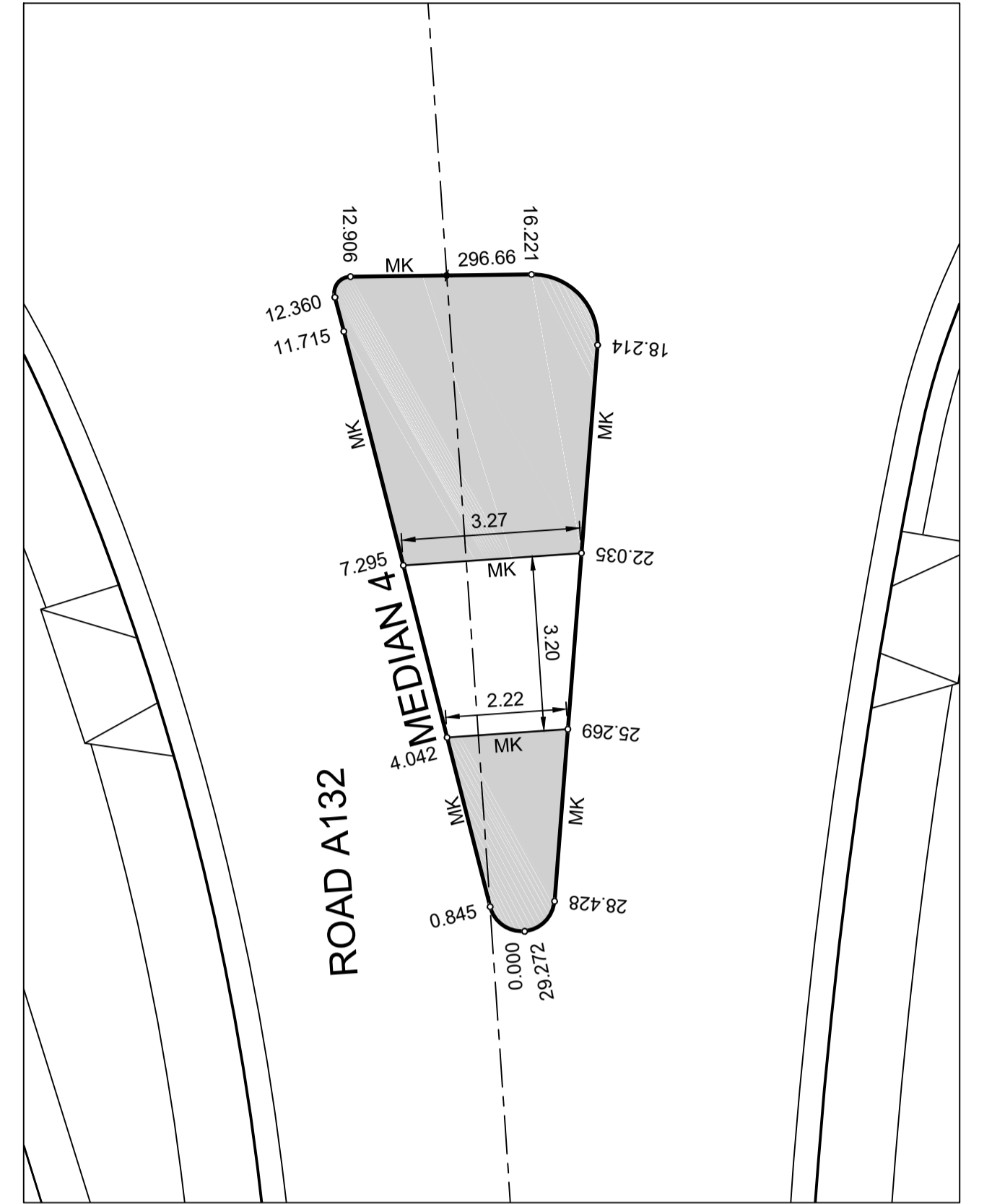
MEDIAN 1
SCALE 1:100



MEDIAN 2
SCALE 1:100



MEDIAN 3
SCALE 1:100



MEDIAN 4
SCALE 1:100

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH
0	295661.4	6269226.46			
0.42	295660.96	6269226.71		0.6	0.84
0.84	295661.12	6269227.19	19°05'28.49"		
11.15	295664.5	6269236.93	19°05'28.49"		
11.3	295664.54	6269237.07			
11.45	295664.59	6269237.21	18°39'23.51"		
11.45	295664.59	6269237.21	18°39'23.51"		
11.73	295664.72	6269237.59		0.3	0.55
12	295665.04	6269237.37	123°43'51.68"		
15.12	295667.64	6269235.64	123°43'51.68"		
16.11	295668.72	6269234.92		1.2	1.98
17.1	295667.91	6269233.9	218°18'40.64"		
26.38	295662.16	6269226.62	218°18'40.64"		
26.8	295661.85	6269226.22		0.6	0.84
27.22	295661.4	6269226.46	298°42'04.57"		

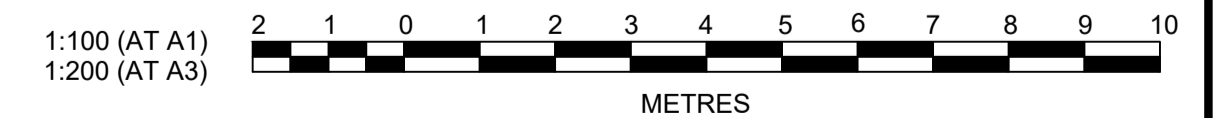
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH
0	295650.45	6269259.51			
0.42	295650.86	6269259.97		0.6	0.84
0.84	295651.15	6269259.84	104°59'02.18"		
11.18	295661.14	6269257.17	104°59'02.18"		
11.33	295661.28	6269257.13			
11.48	295661.42	6269257.09	104°33'37.29"		
11.48	295661.42	6269257.09	104°33'37.29"		
11.75	295661.8	6269256.99		0.3	0.55
12.03	295661.81	6269256.65	209°34'21.60"		
15.17	295660.96	6269253.92	209°34'21.60"		
16.16	295659.41	6269252.79		1.2	1.98
17.15	295658.33	6269253.52	304°19'23.18"		
26.46	295650.65	6269258.77	304°19'23.18"		
26.88	295650.23	6269259.05		0.6	0.84
27.3	295650.45	6269259.51	24°39'12.90"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH
0	295686.13	6269271.36			
0.42	295686.58	6269271.11		0.6	0.84
0.84	295686.41	6269270.63	199°26'51.98"		
11.25	295682.94	6269260.81	199°26'51.98"		
11.44	295682.88	6269260.64			
11.62	295682.82	6269260.46	198°54'57.86"		
11.62	295682.82	6269260.46	198°54'57.86"		
11.9	295682.7	6269260.09		0.3	0.55
12.17	295682.37	6269260.31	303°59'07.30"		
15.28	295679.79	6269262.05	303°59'07.30"		
16.27	295678.72	6269262.77		1.2	1.98
17.26	295679.52	6269263.79	38°17'21.06"		
26.7	295685.37	6269271.2	38°17'21.06"		
27.12	295685.69	6269271.6		0.6	0.84
27.54	295686.13	6269271.36	118°52'06.73"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH
0	295697.72	6269237.84			
0.42	295697.51	6269237.38		0.6	0.84
0.84	295697.02	6269237.52	285°34'47.04"		
11.72	295686.54	6269240.44	285°34'47.04"		
12.04	295686.23	6269240.52			
12.36	295685.92	6269240.61	284°43'49.72"		
12.36	295685.92	6269240.61	284°43'49.72"		
12.63	295685.55	6269240.7		0.3	0.55
12.91	295685.74	6269241.04	29°08'52.30"		
16.22	295687.35	6269243.94	29°08'52.30"		
17.22	295687.99	6269245.08		1.2	1.99
18.21	295689.08	6269244.34	124°16'51.91"		
28.43	295697.52	6269238.59	124°16'51.91"		
28.85	295697.94	6269238.3		0.6	0.84
29.27	295697.72	6269237.84	204°55'49.96"		

LDC Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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RADI AND SETOUT ARE TO THE FACE OF KERB



Plotted: 28 July 2022 11:25:44 AM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\985-12-CC22304.dwg

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22	
	AMENDMENT	DES	DRN	CKD	APR	DATE	

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 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

W WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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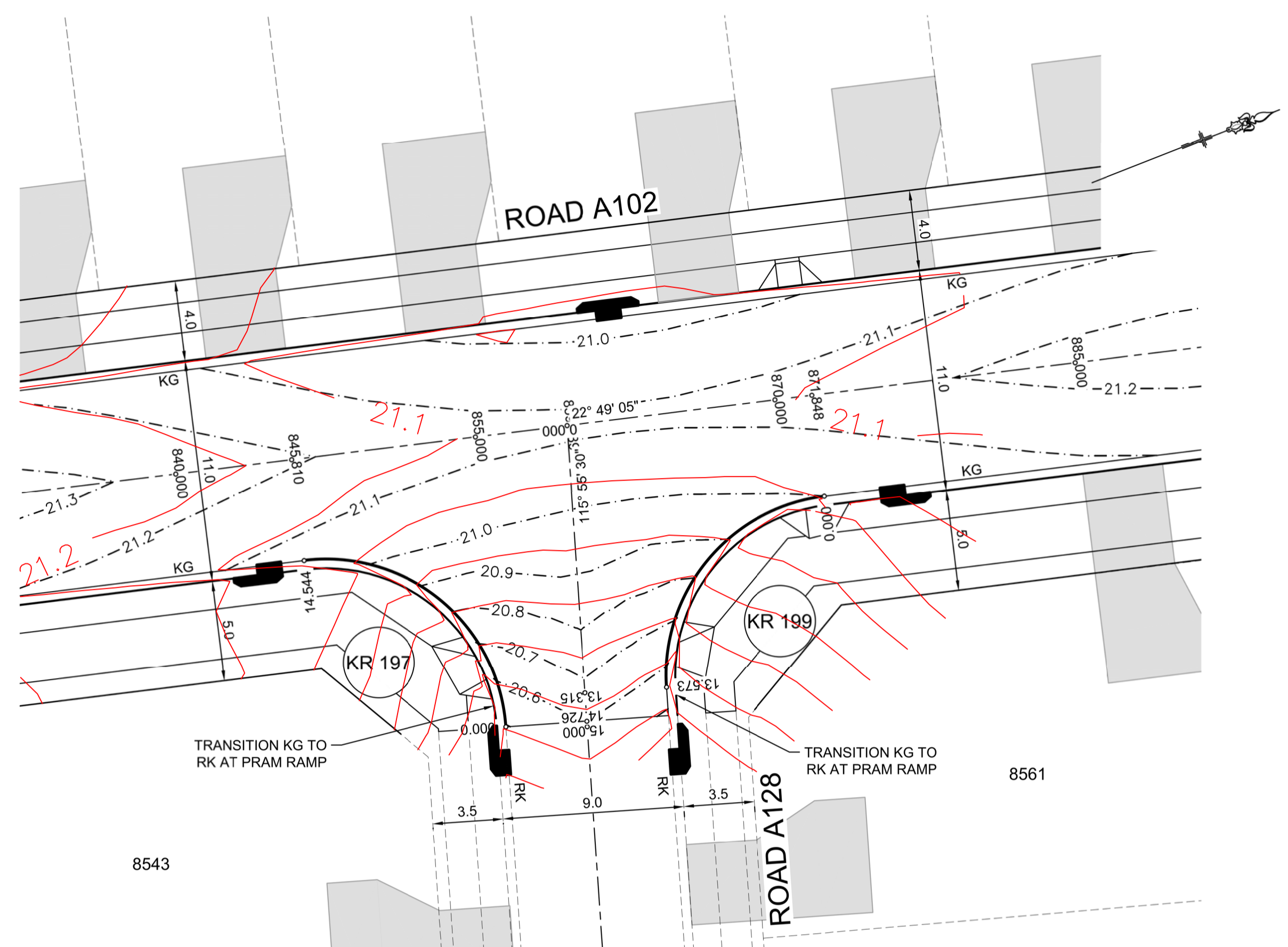
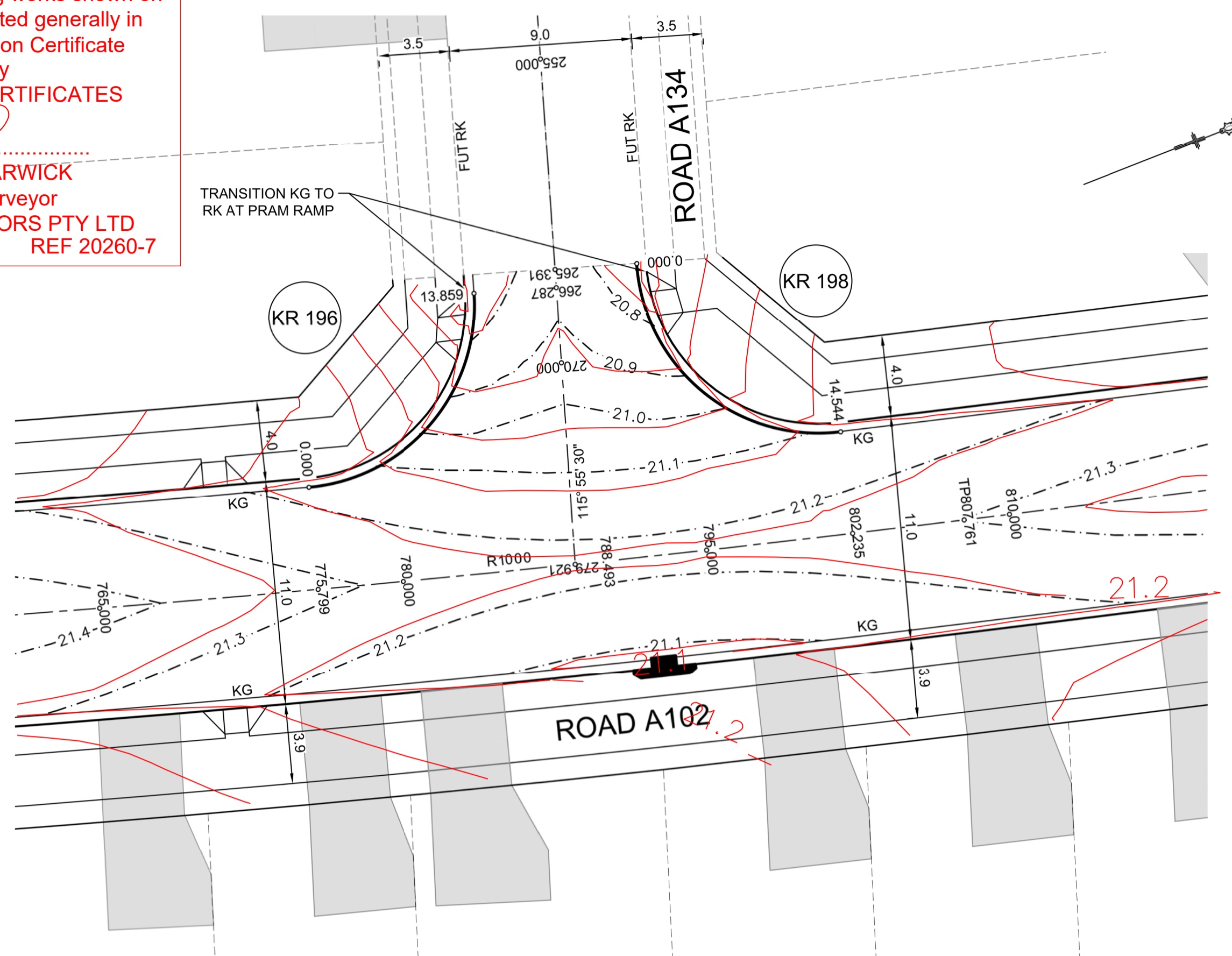
NEWPARK PRECINCT 7, ROAD A102
 KERB RETURNS
 SHEET 4

PROJECT No: **9985-12**
 SHEET No: **CC22304**

PLAN No: **9985-12-CC22304**

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

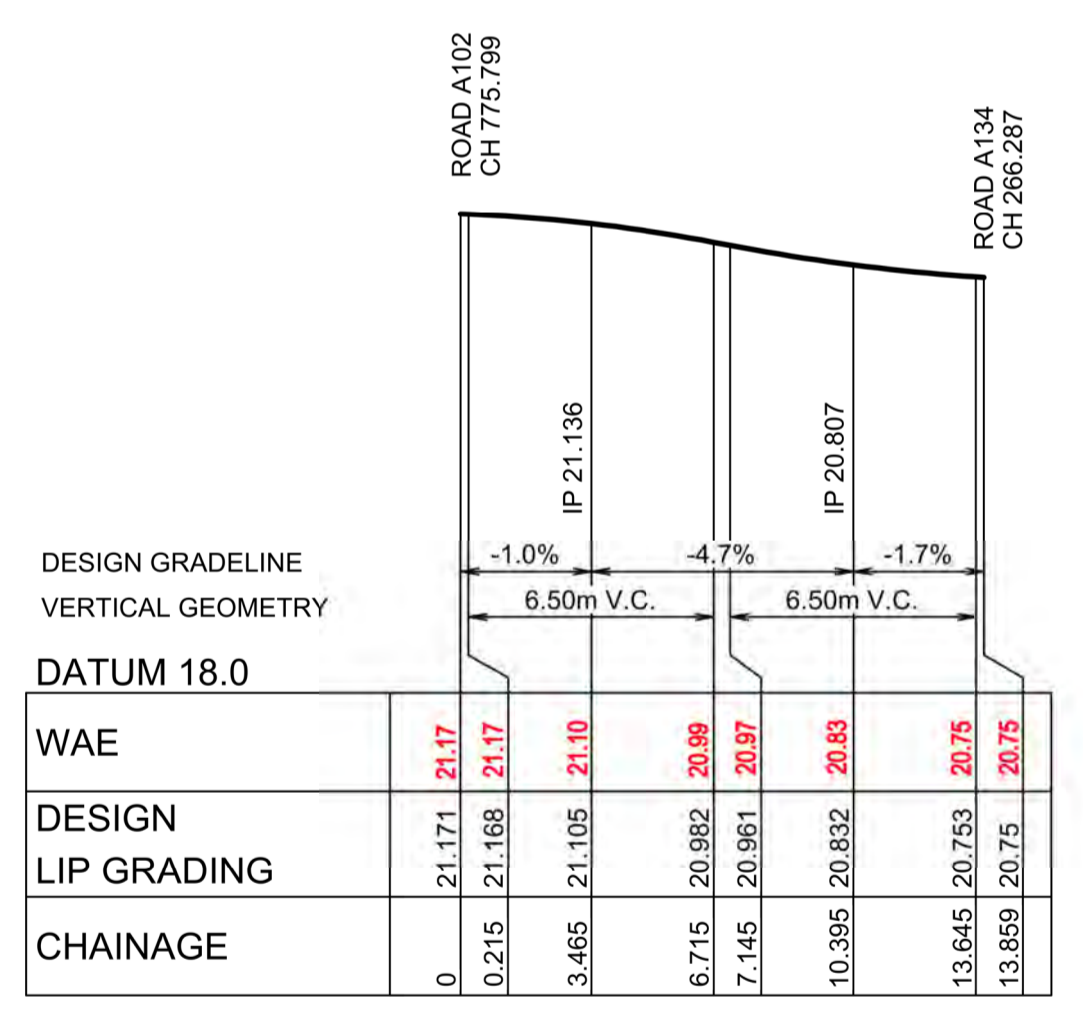
Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



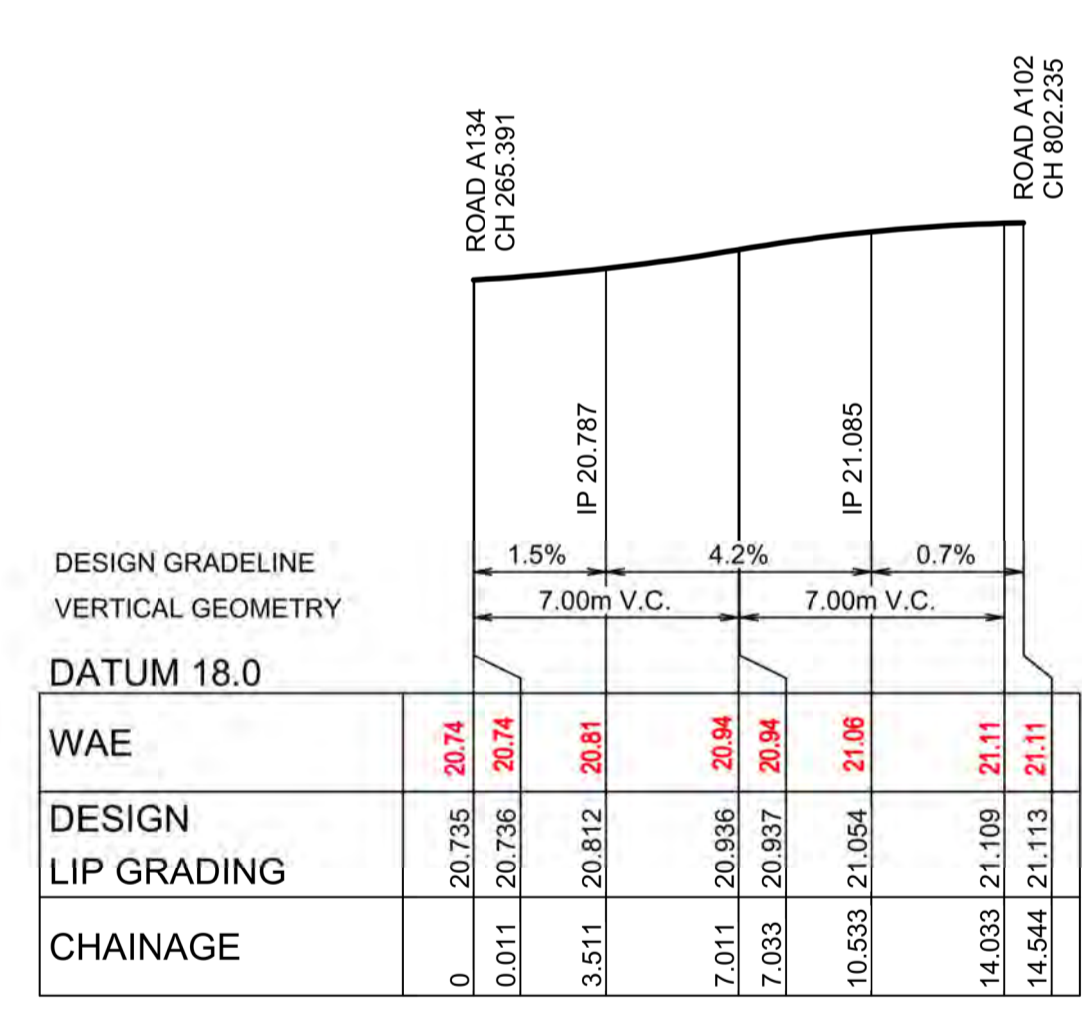
PLAN
SCALE 1:200

DESIGN LEVELS, RADII AND SETOUT ARE TO LIP OF GUTTER

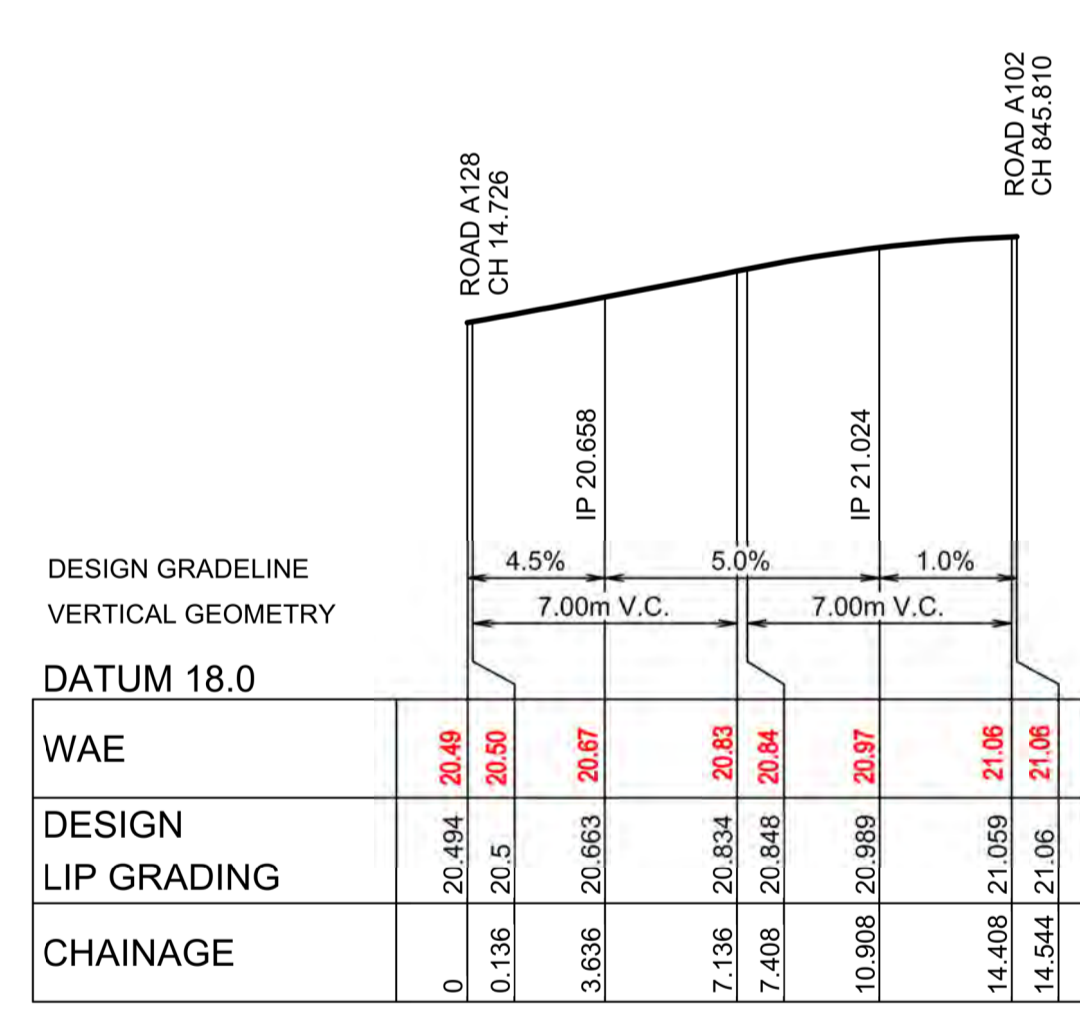
LDC Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
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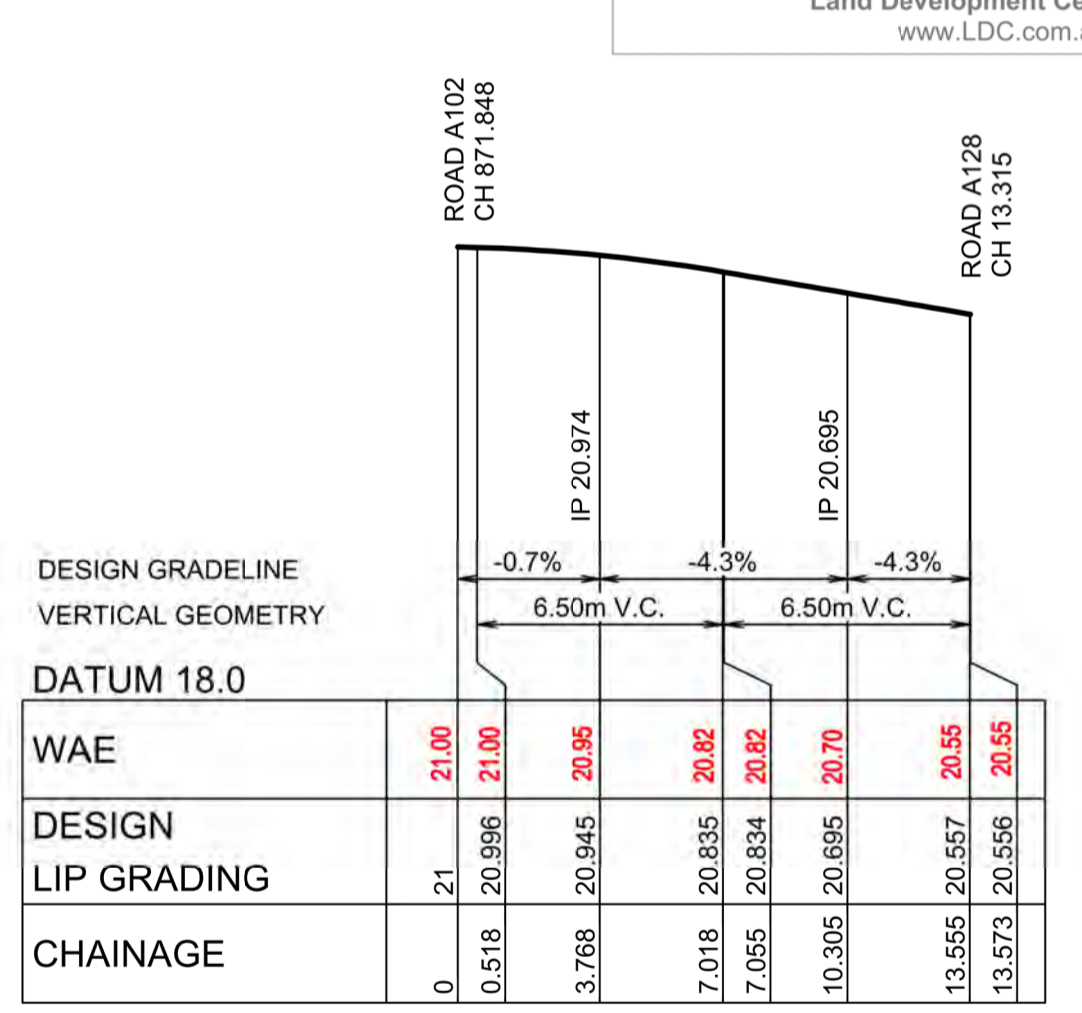
KR 196
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 198
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 197
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



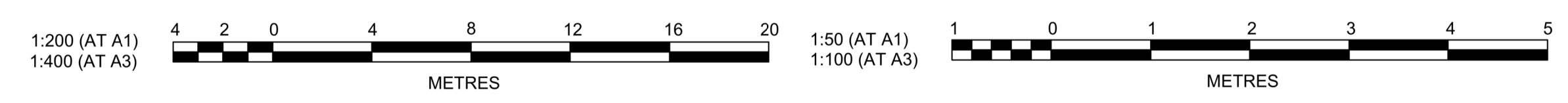
KR 199
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295729.93	6269365.17	24°38'57.50"		
6.93	295733.58	6269373.12		-8.95	13.86
13.86	295725.71	6269376.95	295°55'30.20"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295778.96	6269430.01	295°55'30.20"		
7.27	295770.46	6269434.14		-8.95	14.54
14.54	295766.8	6269425.43	202°49'04.91"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295778.96	6269430.01	295°55'30.20"		
7.27	295770.46	6269434.14		-8.95	14.54
14.54	295766.8	6269425.43	202°49'04.91"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295776.89	6269449.43	202°49'04.91"		
6.79	295773.61	6269441.62		-8.95	13.57
13.57	295761.23	6269437.91	115°55'30.20"		



Plotted: 28 July, 2022 11:27:31 AM File Name: J:\985DICC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\985-12-CC22305.dwg

ISSUE FOR INFORMATION	AMENDMENT	KE/DG	NJ	DG	MS	28/07/22
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J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP

STATUS:
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NEWPARK PRECINCT 7, ROAD A102 KERB RETURNS SHEET 5

PROJECT No: **9985-12**
 SHEET No: **CC22305**

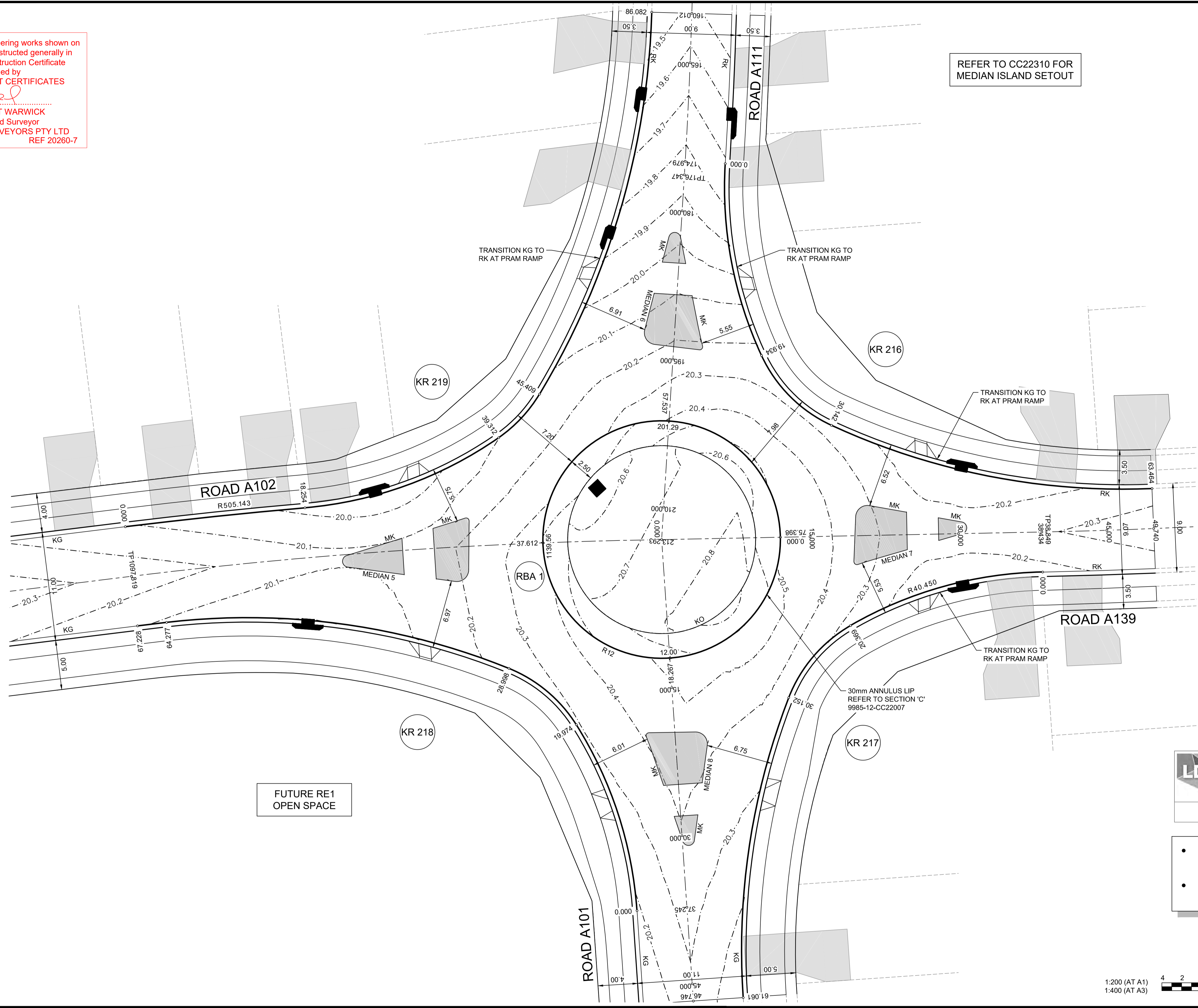
PLAN No: **9985-12-CC22305**

PROJECT No: **9985-12**
 SHEET No: **CC22305**
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22305**

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

REFER TO CC22310 FOR MEDIAN ISLAND SETOUT

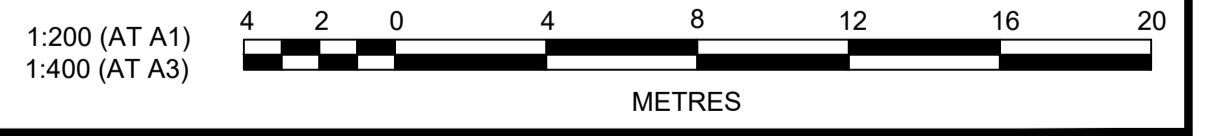


FUTURE RE1 OPEN SPACE

LDC Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au

- DESIGN LEVELS, RADII AND SETOUT ARE TO LIP OF GUTTER
- REFER TO 9985-12-CC22310 FOR MEDIAN ISLAND SETOUT



Plotted: 28 July 2022 11:29:52 AM File Name: J:\9985\BDC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22308.dwg

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
A	ISSUE FOR INFORMATION	28/07/22	MS	DG	NJ
	AMENDMENT		APR	CKD	DRN
			DES	DRN	DES

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CLIENT:

WINTEN PROPERTY GROUP

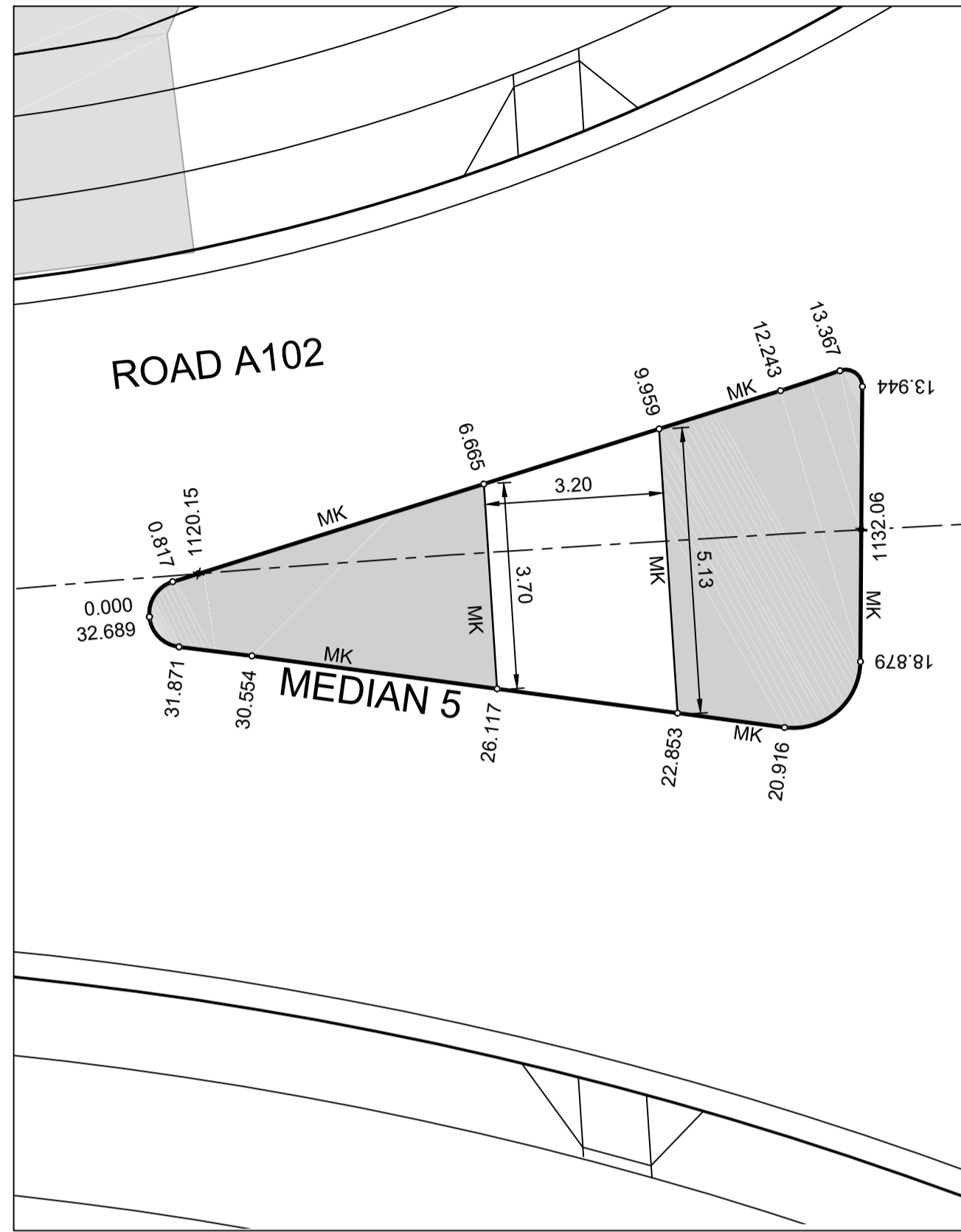
STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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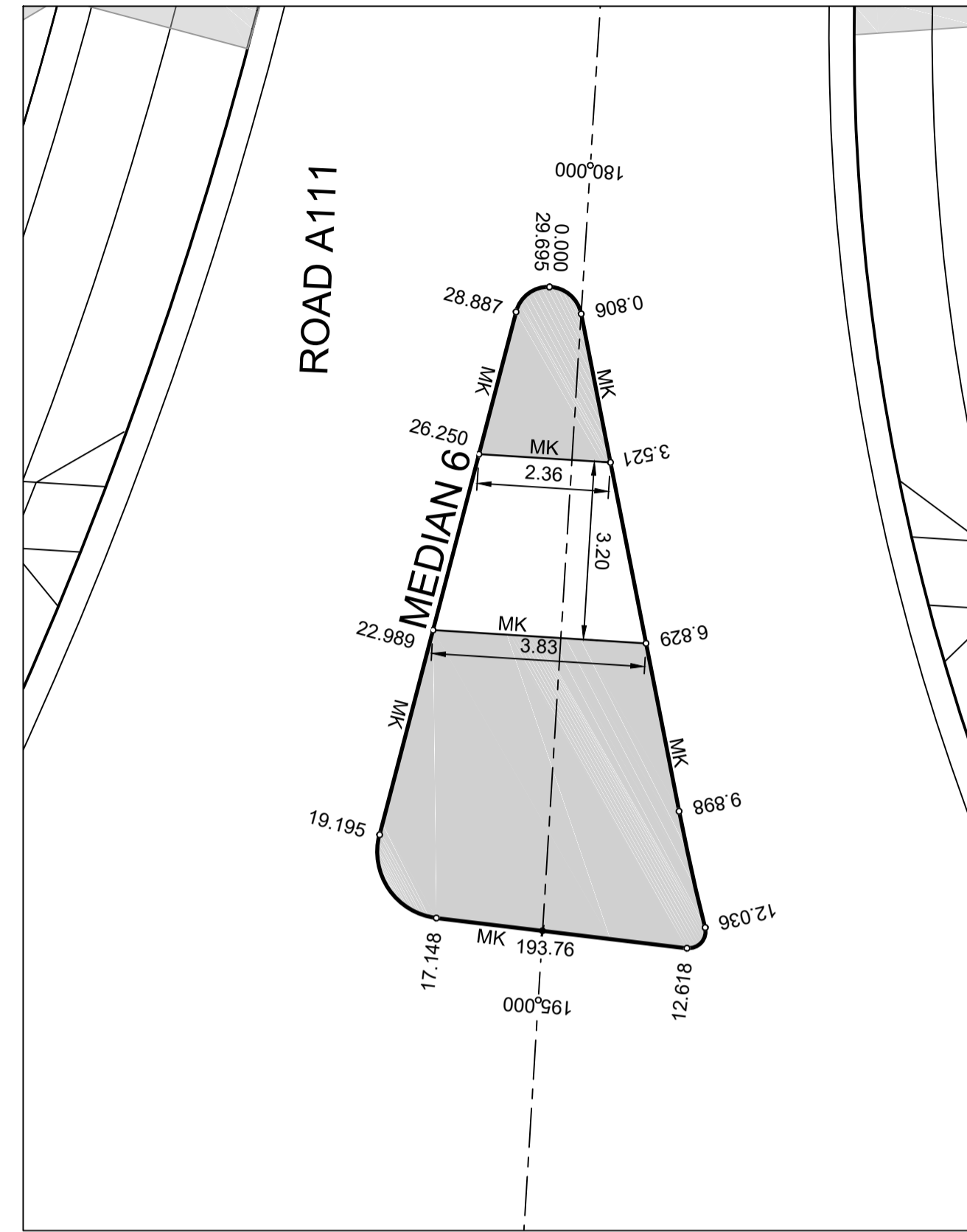
NEWPARK
 PRECINCT 7, ROAD A102
 KERB RETURNS
 SHEET 8

PROJECT No: **9985-12**
 SHEET No: **CC22308**

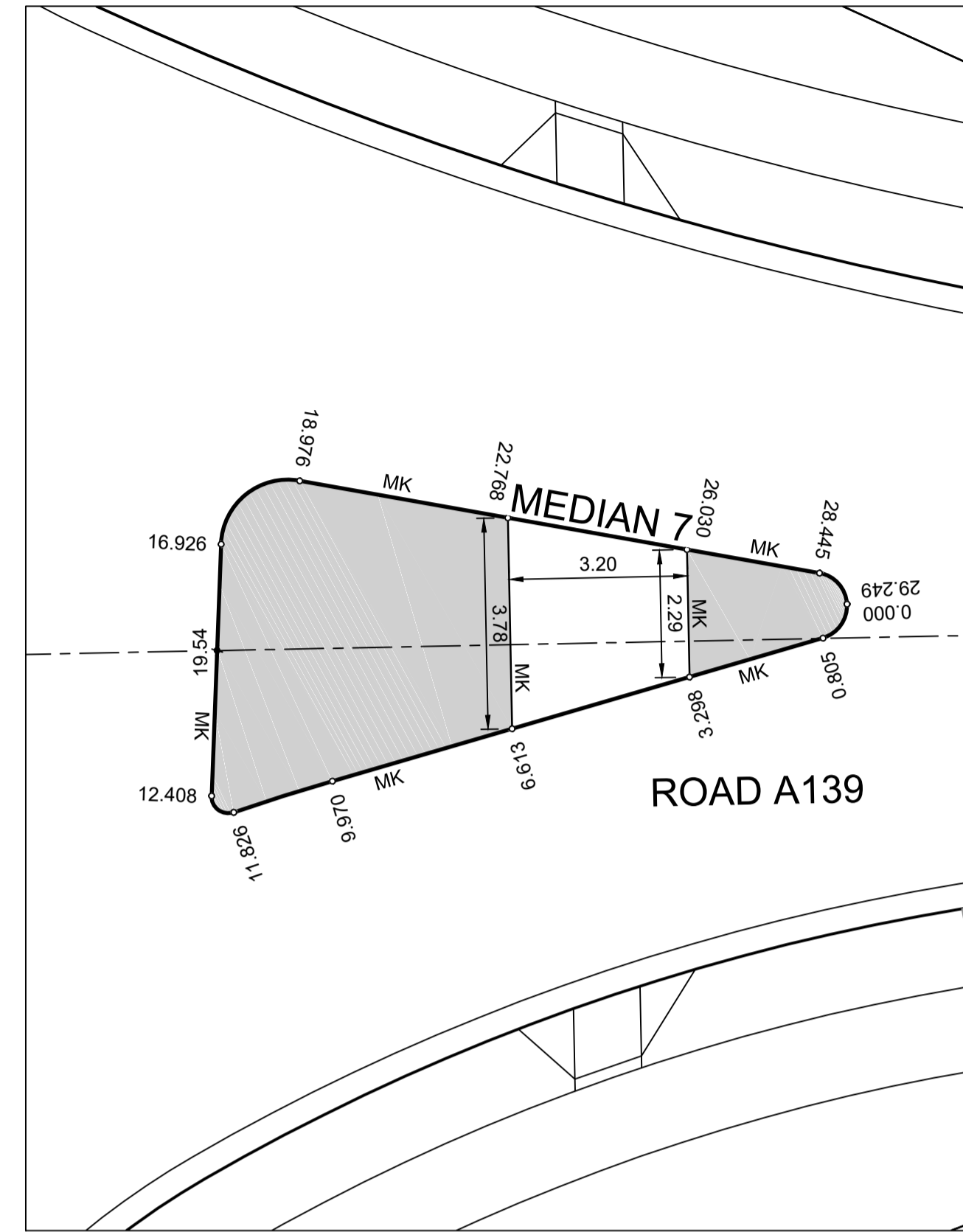
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22308**



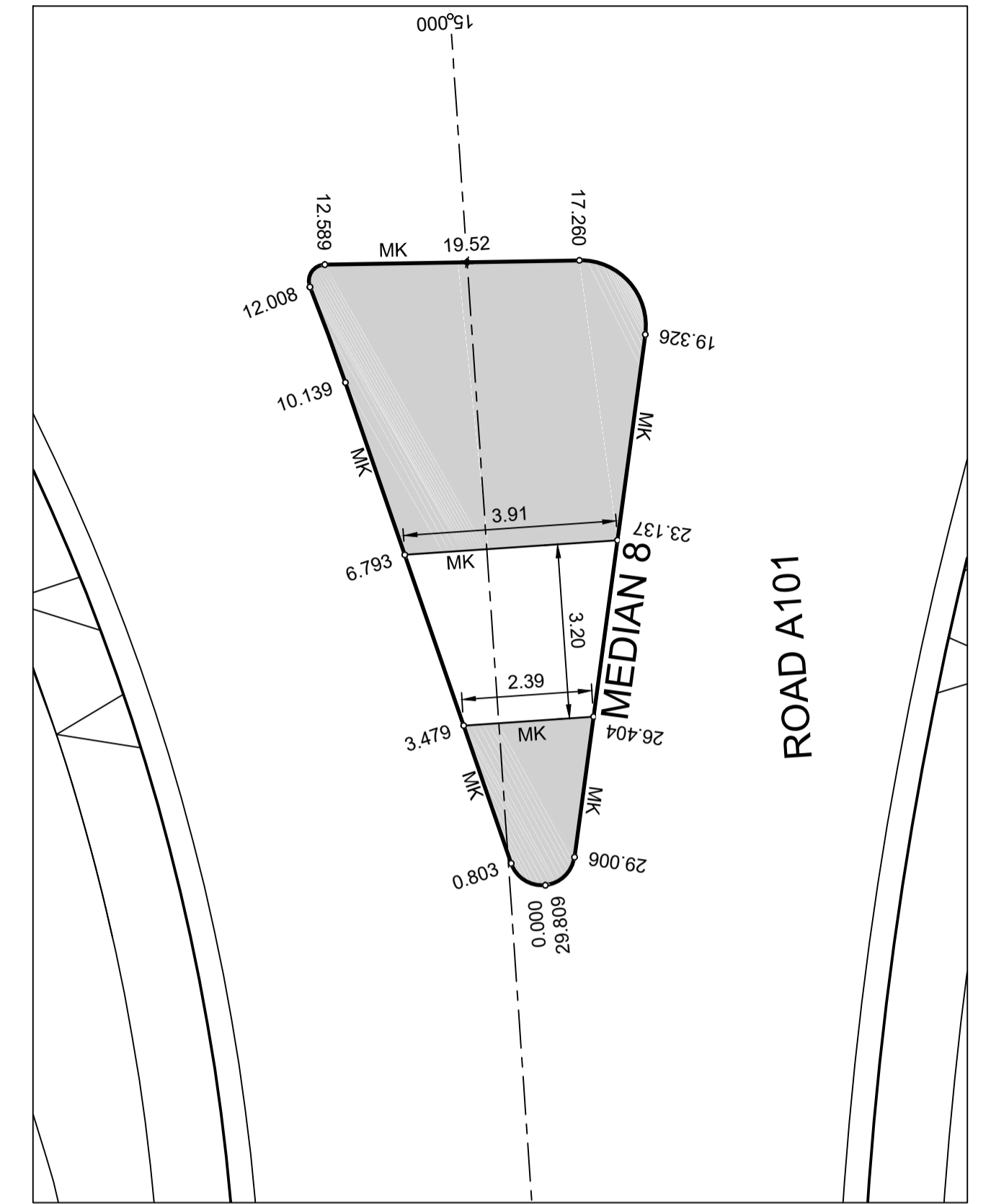
MEDIAN 5
SCALE 1:100



MEDIAN 6
SCALE 1:100



MEDIAN 7
SCALE 1:100



MEDIAN 8
SCALE 1:100

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature *[Signature]*
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295869.22	6269679.91			
0.41	295868.78	6269679.11		0.6	0.82
0.82	295868.88	6269679.59	12°24'19.68"		
12.24	295871.34	6269690.75	12°24'19.68"		
12.8	295871.46	6269691.29		-26.83	1.12
13.37	295871.56	6269691.85	10°00'19.91"		
13.37	295871.56	6269691.85	10°00'19.91"		
13.66	295871.63	6269692.27		0.3	0.58
13.94	295872	6269692.05	120°15'08.86"		
18.88	295876.27	6269689.57	120°15'08.86"		
19.9	295877.44	6269688.88		1.2	2.04
20.92	295876.61	6269687.8	217°30'42.88"		
30.55	295870.75	6269680.16	217°30'42.88"		
31.21	295870.34	6269679.63		-59.96	1.32
31.87	295869.95	6269679.1	216°15'11.26"		
31.87	295869.95	6269679.1	216°15'11.26"		
32.28	295869.67	6269678.71		0.6	0.82
32.69	295869.22	6269678.91	294°20'48.47"		

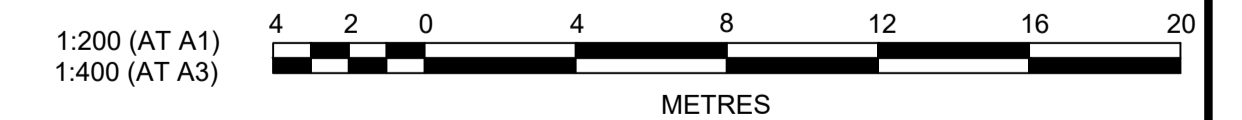
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295857.07	6269724.61			
0.4	295857.32	6269725.02		0.6	0.81
0.81	295857.77	6269724.87	108°43'18.96"		
9.9	295866.38	6269721.95	108°43'18.96"		
10.97	295867.4	6269721.61		-40	2.14
12.04	295868.42	6269721.32	105°39'35.34"		
12.04	295868.43	6269721.32	105°39'35.34"		
12.33	295868.85	6269721.2		0.3	0.58
12.62	295868.58	6269720.85	216°43'33.56"		
17.15	295865.88	6269717.22	216°43'33.56"		
18.17	295865.05	6269716.12		1.2	2.05
19.2	295864.07	6269717.08	314°29'16.68"		
28.89	295857.16	6269723.87	314°29'16.68"		
29.29	295856.82	6269724.21		0.6	0.81
29.69	295857.07	6269724.61	31°36'17.49"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295897.62	6269735.35			
0.4	295898.04	6269735.13		0.6	0.8
0.8	295897.93	6269734.67	193°35'45.84"		
9.97	295895.78	6269725.76	193°35'45.84"		
10.9	295895.56	6269724.86		-40	1.86
11.83	295895.38	6269723.95	190°56'18.54"		
11.83	295895.38	6269723.95	190°56'18.54"		
12.12	295895.3	6269723.52		0.3	0.58
12.41	295894.93	6269723.75	302°01'18.21"		
16.93	295891.1	6269726.15	302°01'18.21"		
17.95	295889.93	6269726.88		1.2	2.05
18.98	295890.81	6269727.93	39°54'38.37"		
28.44	295896.89	6269735.2	39°54'38.37"		
28.85	295897.19	6269735.56		0.6	0.8
29.25	295897.62	6269735.35	116°45'11.88"		

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295911.62	6269695.01			
0.4	295911.33	6269694.58		0.6	0.8
0.8	295910.86	6269694.67	280°50'01.55"		
10.14	295901.69	6269696.43	280°50'01.55"		
11.07	295900.77	6269696.6		-40	1.87
12.01	295899.85	6269696.73	278°09'24.12"		
12.01	295899.85	6269696.73	278°09'24.12"		
12.3	295899.42	6269696.8		0.3	0.58
12.59	295899.63	6269697.18	28°53'56.44"		
17.26	295901.88	6269701.27	28°53'56.44"		
18.29	295902.56	6269702.49		1.2	2.07
19.33	295903.66	6269701.64	127°33'48.26"		
29.01	295911.34	6269695.74	127°33'48.26"		
29.41	295911.71	6269695.45		0.6	0.8

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
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RADI AND SETOUT ARE TO THE FACE OF KERB



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ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au



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NEWPARK PRECINCT 7, ROAD A102
KERB RETURNS
SHEET 10


PROJECT No: **9985-12**
SHEET No: **CC22310**

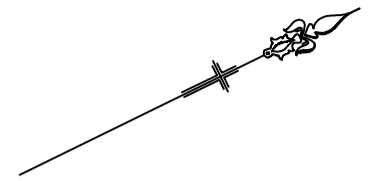
AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22310** A

LEGEND

----- PRECINCT 7 ROAD A102 BOUNDARY

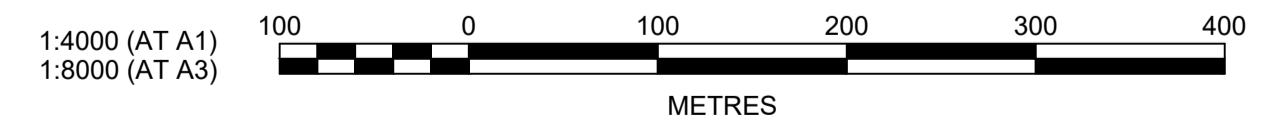
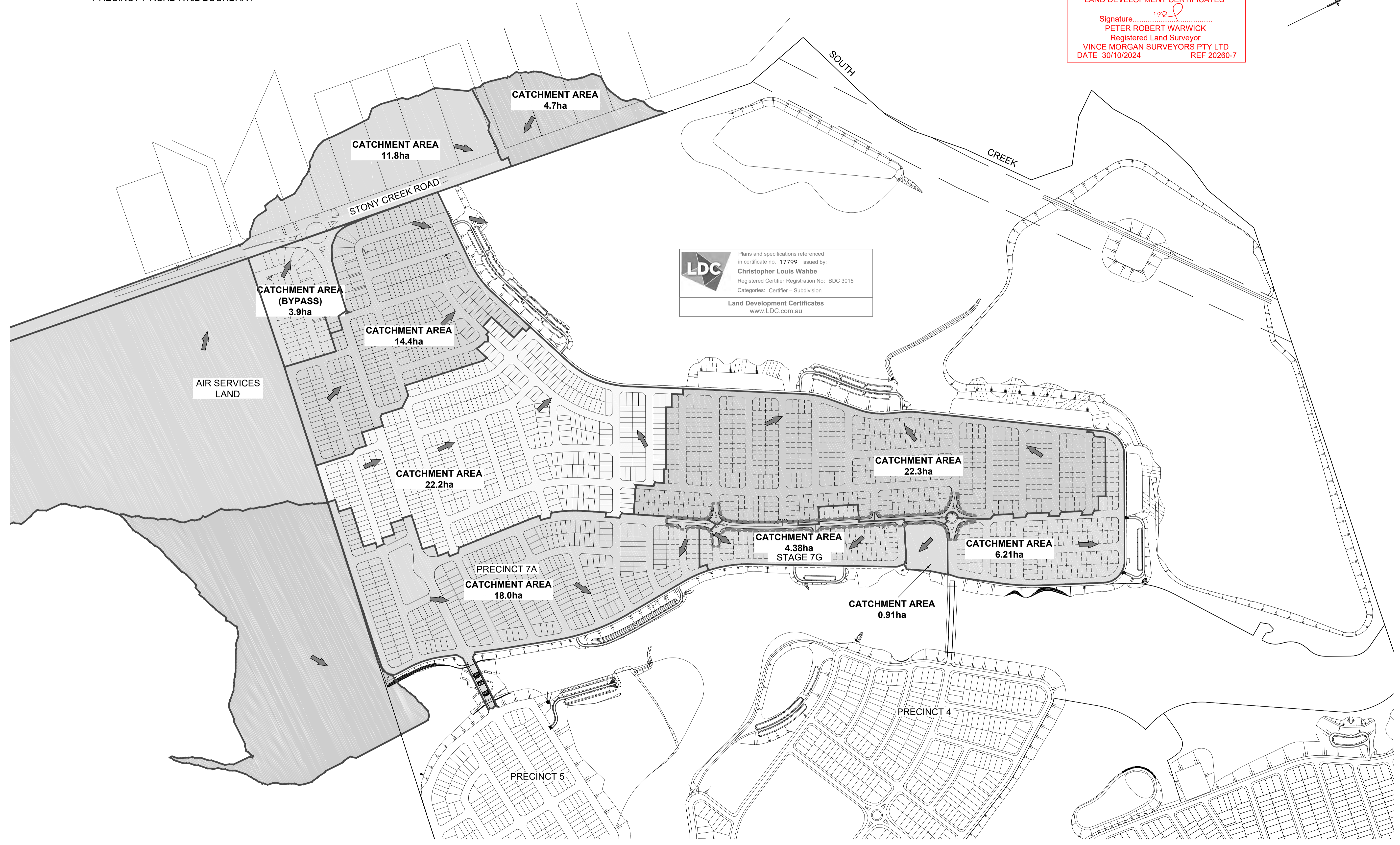
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
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Plotted: 28 July 2022 11:31:32 AM File Name: J:\9985\DJCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22400.dwg

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:  **WINTAN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

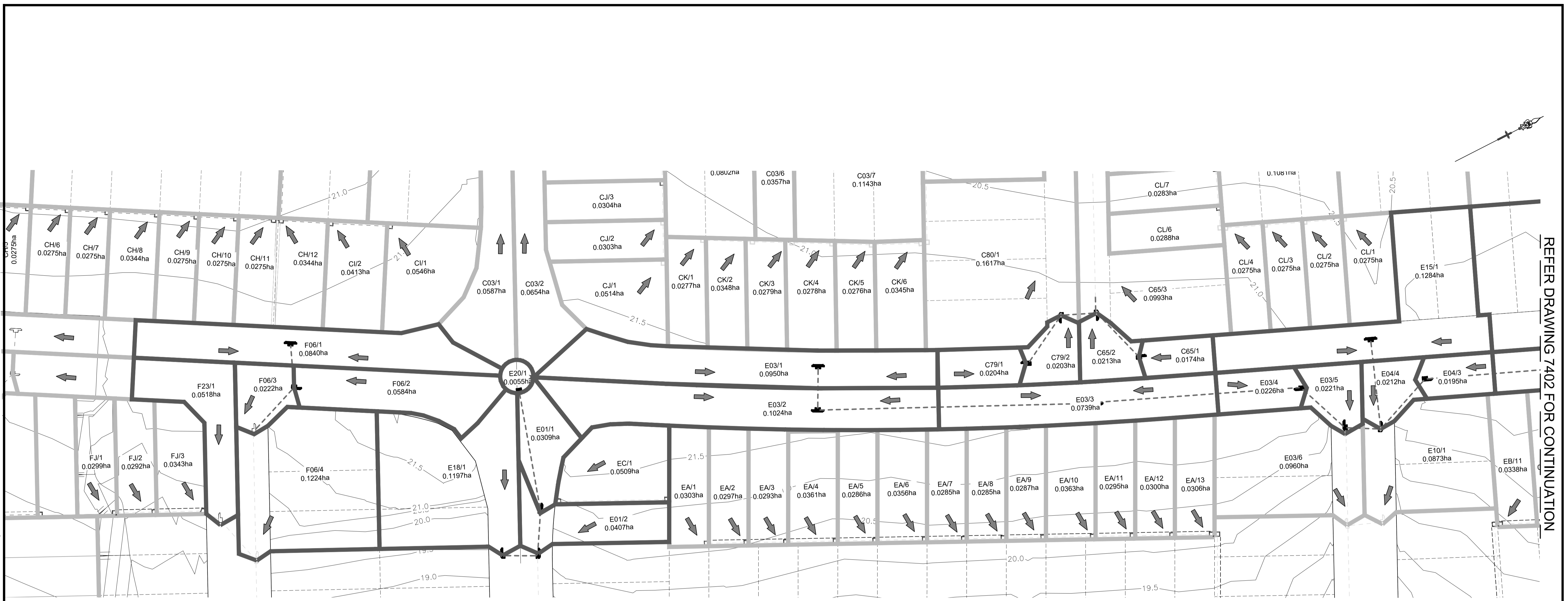
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NEWPARK
 PRECINCT 7, ROAD A102
 CATCHMENT PLAN
 SHEET 1

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22400

PROJECT No: **9985-12**
 SHEET No: **CC22400**

A



REFER DRAWING 7402 FOR CONTINUATION

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Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LEGEND	
CATCHMENT BOUNDARY	
CATCHMENT BOUNDARY EXISTING/FUTURE	
FLOW DIRECTION ARROW	
EXISTING CONTOURS	
DESIGN CONTOURS	
DRAINAGE LINE & PIT	
EXISTING DRAINAGE LINE & PIT	
FUTURE DRAINAGE LINE & PIT	

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

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NO.	DESCRIPTION	KE/DG	NJ	DG	MS	28/07/22
A	ISSUE FOR INFORMATION					
	AMENDMENT	DES	DRN	CKD	APR	DATE

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 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102 CATCHMENT PLAN SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC22401**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22401

PROJECT No: **9985-12**
 SHEET No: **CC22401**

A

Plotted: 28 July 2022 11:32:48 AM File Name: J:\985BDC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\985-12-CC22402.dwg

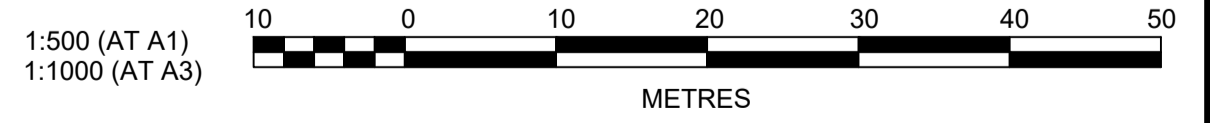
REFER DRAWING 7401 FOR CONTINUATION



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES
 Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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LEGEND	
CATCHMENT BOUNDARY	
CATCHMENT BOUNDARY EXISTING/FUTURE	
FLOW DIRECTION ARROW	
EXISTING CONTOURS	
DESIGN CONTOURS	
DRAINAGE LINE & PIT	
EXISTING DRAINAGE LINE & PIT	
FUTURE DRAINAGE LINE & PIT	



A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
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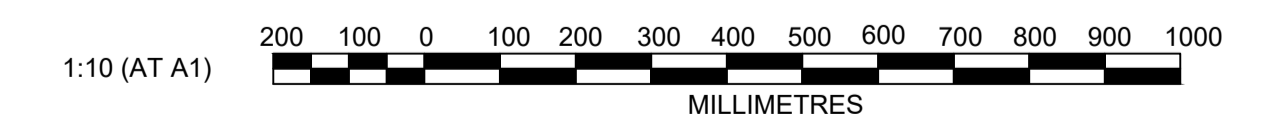
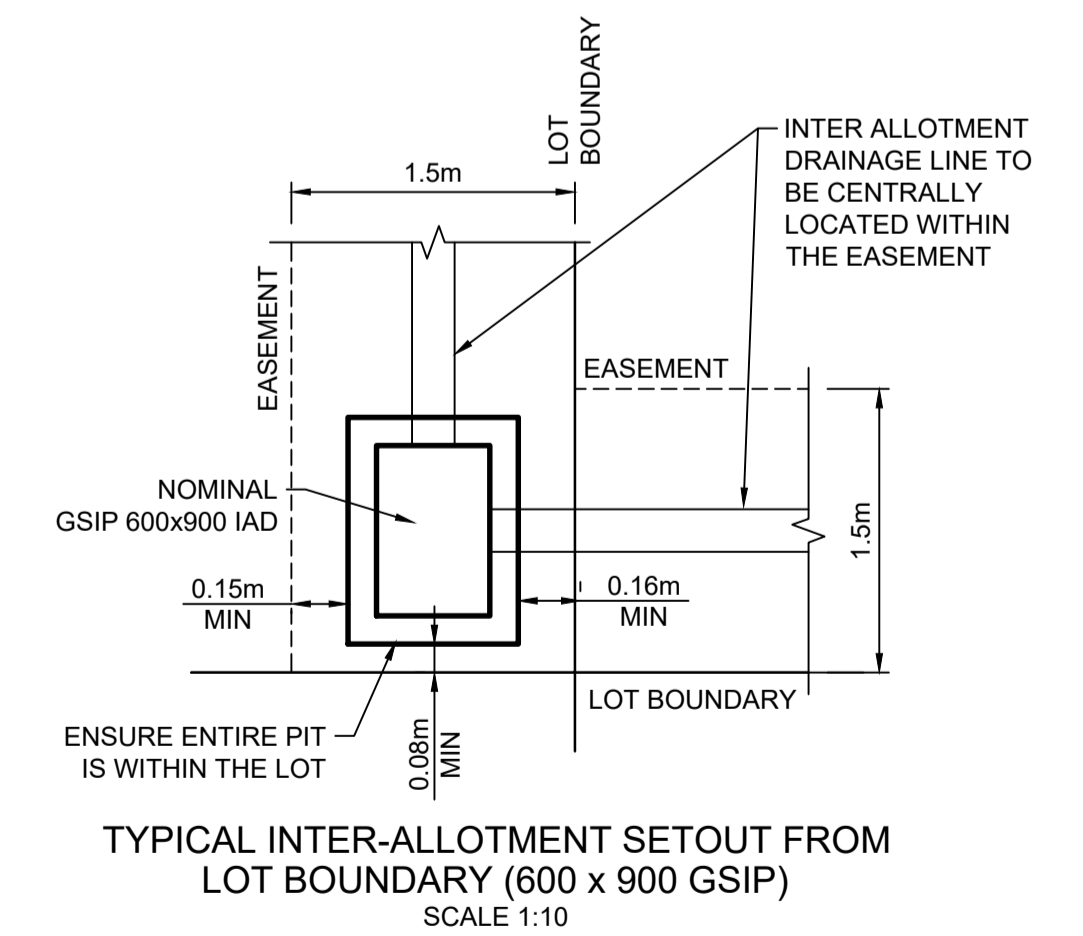
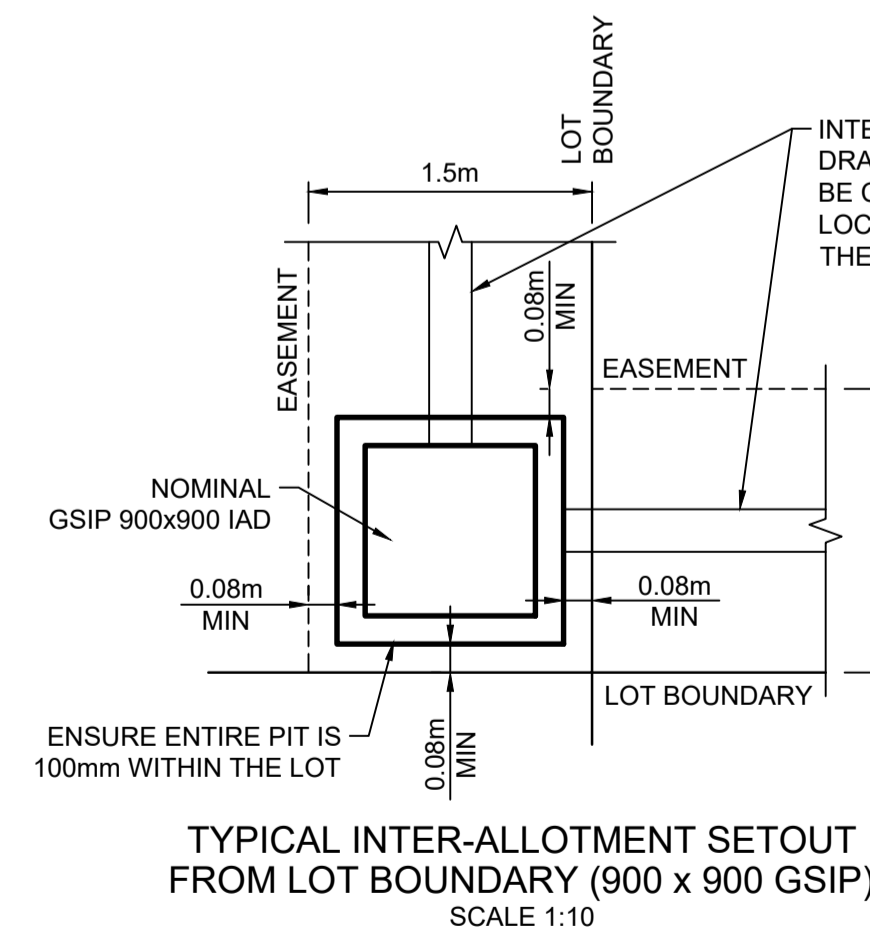
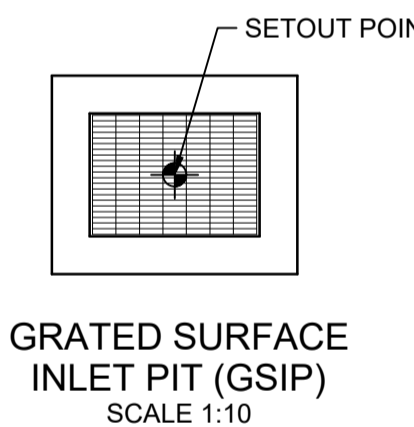
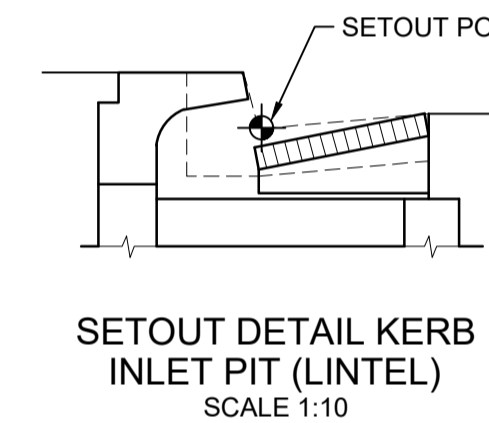
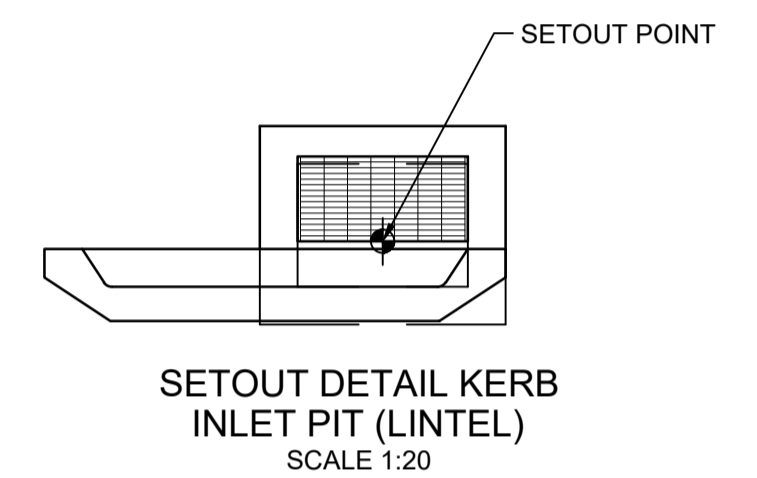
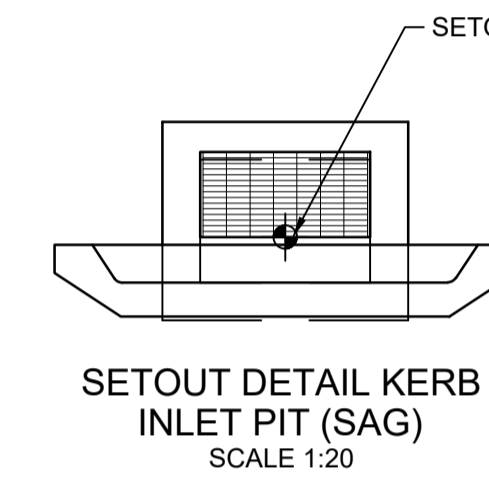
CLIENT:
WINTER PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK
PRECINCT 7, ROAD A102
 CATCHMENT PLAN
 SHEET 3

PROJECT No: **9985-12**
 SHEET No: **CC22402**
 PLAN No: **9985-12-CC22402**

PIT SCHEDULE					
PIT NAME (-)	SURFACE FITTING TYPE AND SIZE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
C07/1	2.4 m lintel sag	295803.42	6269567.76	1.45	
C07/2	2.4 m lintel sag	295799.46	6269559.68	1.64	
C11/1	2.4 m lintel sag	295845.95	6269640.78	1.51	
C11/2	2.4 m lintel sag	295864.62	6269685.28	1.71	
C11/3	JP GRATED 900 x 900	295875.59	6269704.93	2.65	
C11/4	1.8 m lintel	295853.69	6269718.88	2.21	
C11/5	1.8 m lintel	295843.16	6269728.61	2.13	
C55/1	2.4 m lintel	295849.61	6269735.6	1.44	
C65/1	1.8 m lintel	295740.75	6269390.74	1.34	
C65/2	1.8 m lintel	295726.05	6269386.29	1.58	
C79/1	1.8 m lintel	295729.47	6269365.24	1.36	
C79/2	1.8 m lintel	295722.49	6269378.02	1.45	
C82/1	2.4 m lintel sag	295872.99	6269672.7	1.45	
D01/1	2.4 m lintel sag	295891.96	6269738.03	1.35	
D01/2	2.4 m lintel sag	295902.59	6269732.08	1.52	TEMPORARY HEADWALL
E01/1	1.8 m lintel	295706.57	6269238.74	1.6	
E01/2	1.8 m lintel	295716.42	6269233.1	1.62	
E01/3	1.8 m lintel	295740.38	6269221.44	1.69	
E02/1	1.8 m lintel	295836.5	6269589.95	1.35	
E02/2	1.8 m lintel	295851.78	6269595.26	1.53	
E02/3	1.8 m lintel	295872.38	6269586.6	1.53	TEMPORARY HEADWALL
E03/1	2.4 m lintel sag	295706.07	6269317.64	1.44	
E03/2	2.4 m lintel sag	295715.8	6269312.53	1.71	
E03/3	2.4 m lintel sag	295746.33	6269375.93	2.35	
E03/4	1.8 m lintel	295766.53	6269423.63	2.92	
E03/5	1.8 m lintel	295780.34	6269428.84	2.43	
E03/6	1.8 m lintel	295802.61	6269418.02	1.64	TEMPORARY HEADWALL
E04/1	2.4 m lintel sag	295790.63	6269509.27	1.44	
E04/2	2.4 m lintel sag	295800.77	6269505.01	1.71	
E04/3	1.8 m lintel	295778.63	6269452.39	2.49	
E04/4	1.8 m lintel	295784.76	6269436.7	2.06	
E15/1	2.4 m lintel sag	295763.48	6269444.75	1.44	
E18/1	1.8 m lintel	295712.27	6269225.09	1.45	
E20/1	GSIP 900x900	295677.2	6269247.72	1.66	
EC/2	IAD 900x900			1.56	
F06/1	2.4 m lintel sag	295640.29	6269201.85	1.44	
F06/2	1.8 m lintel	295650.54	6269197.61	1.56	
F06/3	1.8 m lintel	295655.7	6269183.66	1.55	
F06/4	2.4 m lintel	295685.26	6269169.29	1.56	TEMPORARY HEADWALL



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LDC Plans and specifications referenced in certificate no. 17799 issued by: Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
 www.LDC.com.au

Plotfile: 28 July 2022 11:33:01 AM File Name: J:\0985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\985-12-CC22411.dwg

ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, ROAD A102
 PIT SCHEDULE SHEET 1
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22411

PROJECT No: **9985-12**
 SHEET No: **CC22411**
 A

DESIGN STORM 10% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
C07/1	2.4 m lintel sag	0.029	95	5	5	5	12	12	0	23	0.4	1.9	C07/4	0	0.86	0	
C07/2	2.4 m lintel sag	0.111	85	5	5	15	47	47	0	58	0.7	3	C07/3	0	1.75	0.01	
C11/1	2.4 m lintel sag	0.074	85	5	5	15	27	27	0	50	0.7	3	C11/2	6	0.88	0.02	
C11/2	2.4 m lintel sag	0.074	95	5	5	15	6	6	0	23	0.3	3.3	C11/4	0	0	0	
C11/3	JP GRATED 900 x 900	0.027	50	5	5	15	9	9	0	33	0.7	2.1	C11/4	4	0.45	0.02	
C11/4	1.8 m lintel	0.029	95	5	5	15	4	4	0	39	1.8	1.9	C11/5	6	0.45	0.02	
C11/5	1.8 m lintel	0.015	95	5	5	15	6	6	0	36	2	2.7	C11/6	5	0.85	0.01	
C55/1	2.4 m lintel	0.126	85	5	5	15	47	44	3	80	2	3	C20/1	49	1.83	0.07	
C65/1	1.8 m lintel	0.017	95	5	5	5	7	7	0	44	0.7	3	C65/2	8	1.87	0.01	
C65/2	1.8 m lintel	0.021	95	5	5	25	8	8	0	82	1.2	3	C65/3	37	1.87	0.05	
C79/1	1.8 m lintel	0.02	95	5	5	15	8	8	0	41	1	3	C79/2	7	2.3	0.01	
C79/2	1.8 m lintel	0.02	95	5	5	15	7	7	0	94	1.2	3	C80/1	60	2.3	0.07	
C82/1	2.4 m lintel sag	0.122	95	5	5	15	46	46	0	56	0.2	2.3	C11/2	0			
D01/1	2.4 m lintel sag	0.06	95	5	5	5	23	23	0	35	0.3	2.1	LOST	0	0	0	
D01/2	2.4 m lintel sag	0.056	95	5	5	5	22	22	0	35	0.3	2.8	D01/3	0	0.74	0	
E01/1	1.8 m lintel	0.031	95	5	5	15	12	12	0	46	6.5	2.8	E01/2	15	0.88	0.05	
E01/2	1.8 m lintel	0.041	85	5	5	25	15	15	0	52	6.5	3.1	E01/3	21	1.88	0.03	
E01/3	1.8 m lintel	0.078	85	5	5	25	21	21	0	82	6	2.9	E01/4	45	1.88	0.06	
E02/1	1.8 m lintel	0.063	95	5	5	15	9	9	0	42	0.7	3	E02/2	8	1.62	0.01	
E02/2	1.8 m lintel	0.022	95	5	5	25	8	8	0	74	1.8	3	E02/3	32	1.89	0.04	
E02/3	1.8 m lintel	0.086	85	5	5	25	32	29	3	82	1.4	3	E02/4	45	1.89	0.06	
E03/1	2.4 m lintel sag	0.095	95	5	5	5	36	36	0	45	0.1	3	LOST	0	0	0	
E03/2	2.4 m lintel sag	0.102	95	5	5	15	39	39	0	51	0.1	3	E03/3	0	0	0	
E03/3	2.4 m lintel sag	0.074	95	5	5	25	22	22	0	40	0.1	3	E03/4	0	0	0	
E03/4	1.8 m lintel	0.023	95	5	5	25	2	2	0	39	1	3	E03/5	8	1.27	0.02	
E03/5	1.8 m lintel	0.022	95	5	5	15	8	8	0	64	5	3	E03/6	36	1.27	0.08	
E03/6	1.8 m lintel	0.096	85	5	5	15	36	35	1	63	5.2	3	E03/7	35	1.25	0.08	
E04/1	2.4 m lintel sag	0.24	85	5	5	5	81	78	3	70	0.1	3	LOST	0	0	0	
E04/2	2.4 m lintel sag	0.076	95	5	5	15	29	29	0	51	0.1	3	E02/1	0	0	0	
E04/3	1.8 m lintel	0.02	95	5	5	5	7	7	0	40	0.7	3	E04/4	8	1.21	0.02	
E04/4	1.8 m lintel	0.021	95	5	5	15	8	8	0	62	5	3	E10/1	33	1.21	0.07	
E15/1	2.4 m lintel sag	0.128	85	5	5	15	48	48	0	58	0.1	3	E04/1	0	0	0	
E18/1	1.8 m lintel	0.12	85	5	5	15	45	42	3	64	6.7	3	E06/1	41	1.39	0.08	
E20/1	GSIP 900x900	0.006	50	5	5	15	2	2	0	0							
F06/1	2.4 m lintel sag	0.084	95	5	5	5	32	32	0	51	0.1	3	F06/2	0			
F06/2	1.8 m lintel	0.058	95	5	5	15	11	11	0	46	1.1	3	F06/3	8	1.6	0.01	
F06/3	1.8 m lintel	0.022	95	5	5	15	8	8	0	74	3.1	3	F06/4	46	1.6	0.08	
F06/4	2.4 m lintel	0.122	85	5	5	15	46	42	4	72	3.1	3	F06/5	42	1.55	0.07	

DESIGN STORM 5% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s ²)	COMMENTS (-)
EC/1	IAD 600x900	0.051	80	5	5	15	22	22	0	0							
EC/2	IAD 900x900		0			5	0	0	0	0							

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
 Registered Certifier Registration No: BDC 3015
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NEWPARK PRECINCT 7, ROAD A102
 PIT SCHEDULE SHEET 2

PROJECT No: **9985-12**
 SHEET No: **CC22412**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22412** A

DESIGN STORM 1% AEP HYDROLOGIC RESULTS

PIT NAME (-)	PIT TYPE (-)	CATCHMENT AREA (Ha)	PERCENT IMPERVIOUS (%)	Tc IMP (min)	Tc PERV (min)	CRITICAL STORM (min)	APPROACH FLOW (L/s)	CAPTURED FLOW (L/s)	UNCAPTURED FLOW (L/s)	GRATE DEPTH (mm)	ROAD GRADE (%)	ROAD CROSSFALL (%)	BYPASS PIT (-)	FLOW AT BYPASS PIT (L/s)	FLOW WIDTH AT BYPASS PIT (m)	VxD AT BYPASS PIT (m/s^2)	COMMENTS (-)
C07/1	2.4 m lintel sag	0.029	95	5	5	10	17	17	0	44	0.4	1.9	C07/4	0	1.06	0	
C07/2	2.4 m lintel sag	0.111	85	5	5	15	67	67	0	105	0.7	3	C07/3	0	2.02	0.01	
C11/1	2.4 m lintel sag	0.074	85	5	5	15	38	38	0	75	0.7	3	C11/2	22	1.59	0.04	
C11/2	2.4 m lintel sag	0.074	95	5	5	15	22	22	0	61	0.3	3.3	C11/4	0	0	0	
C11/3	JP GRATED 900 x 900	0.027	50	5	5	15	14	11	3	45	0.7	2.1	C11/4	9	0.75	0.03	
C11/4	1.8 m lintel	0.029	95	5	5	15	9	7	2	49	1.8	1.9	C11/5	9	0.75	0.03	
C11/5	1.8 m lintel	0.015	95	5	5	15	9	7	2	46	2	2.7	C11/6	8	1.11	0.02	
C55/1	2.4 m lintel	0.126	85	5	5	15	67	46	21	94	2	3	C20/1	85	2.3	0.1	
C65/1	1.8 m lintel	0.017	95	5	5	15	9	7	2	53	0.7	3	C65/2	13	2.22	0.02	
C65/2	1.8 m lintel	0.021	95	5	5	15	13	11	2	92	1.2	3	C65/3	55	2.22	0.06	
C79/1	1.8 m lintel	0.02	95	5	5	15	11	9	2	51	1	3	C79/2	13	2.68	0.01	
C79/2	1.8 m lintel	0.02	95	5	5	15	13	10	3	106	1.2	3	C80/1	88	2.68	0.08	
C82/1	2.4 m lintel sag	0.122	95	5	5	15	64	64	0	100	0.2	2.3	C11/2	0			
D01/1	2.4 m lintel sag	0.06	95	5	5	5	33	31	2	62	0.3	2.1	LOST	0	0	0	
D01/2	2.4 m lintel sag	0.056	95	5	5	5	31	31	0	62	0.3	2.8	D01/3	0	0.92	0	
E01/1	1.8 m lintel	0.031	95	5	5	5	17	14	3	55	6.5	2.8	E01/2	25	1.18	0.06	
E01/2	1.8 m lintel	0.041	85	5	5	5	25	20	5	61	6.5	3.1	E01/3	35	2.29	0.04	
E01/3	1.8 m lintel	0.078	85	5	5	5	35	26	9	94	6	2.9	E01/4	72	5.77	0.07	
E02/1	1.8 m lintel	0.063	95	5	5	5	12	10	2	51	0.7	3	E02/2	13	1.94	0.02	
E02/2	1.8 m lintel	0.022	95	5	5	5	13	10	3	84	1.8	3	E02/3	48	2.35	0.05	
E02/3	1.8 m lintel	0.086	85	5	5	5	48	32	16	96	1.4	3	E02/4	76	2.35	0.08	
E03/1	2.4 m lintel sag	0.095	95	5	5	5	51	49	2	80	0.1	3	LOST	0	0	0	
E03/2	2.4 m lintel sag	0.102	95	5	5	5	54	54	0	90	0.1	3	E03/3	0	0	0	
E03/3	2.4 m lintel sag	0.074	95	5	5	5	31	31	0	69	0.1	3	E03/4	0	0	0	
E03/4	1.8 m lintel	0.023	95	5	5	5	3	3	0	46	1	3	E03/5	12	1.53	0.02	
E03/5	1.8 m lintel	0.022	95	5	5	5	12	9	3	72	5	3	E03/6	53	1.65	0.09	
E03/6	1.8 m lintel	0.096	85	5	5	5	53	39	14	75	5.2	3	E03/7	62	5.86	0.07	
E04/1	2.4 m lintel sag	0.24	85	5	5	5	115	102	13	124	0.1	3	LOST	0	0	0	
E04/2	2.4 m lintel sag	0.076	95	5	5	5	41	41	0	91	0.1	3	E02/1	0	0	0	
E04/3	1.8 m lintel	0.02	95	5	5	5	11	8	3	50	0.7	3	E04/4	13	1.47	0.02	
E04/4	1.8 m lintel	0.021	95	5	5	5	13	11	2	70	5	3	E10/1	49	1.51	0.09	
E15/1	2.4 m lintel sag	0.128	85	5	5	5	68	68	0	106	0.1	3	E04/1	0	0	0	
E18/1	1.8 m lintel	0.12	85	5	5	5	65	45	20	76	6.7	3	E06/1	72	5.77	0.06	
E20/1	GSIP 900x900	0.006	50	5	5	5	3	3	0	0							
F06/1	2.4 m lintel sag	0.084	95	5	5	5	47	47	0	91	0.1	3	F06/2	0			
F06/2	1.8 m lintel	0.058	95	5	5	5	16	13	3	56	1.1	3	F06/3	15	1.91	0.02	
F06/3	1.8 m lintel	0.022	95	5	5	5	15	12	3	83	3.1	3	F06/4	68	2.02	0.09	
F06/4	2.4 m lintel	0.122	85	5	5	5	68	46	22	86	3.1	3	F06/5	78	2.02	0.1	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by
LAND DEVELOPMENT CERTIFICATES
 Signature.....*PR*.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

Plans and specifications referenced in certificate no. 17799 issued by:
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 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
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A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
 **WINTER PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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NEWPARK PRECINCT 7, ROAD A102
 PIT SCHEDULE SHEET 3
 PROJECT No: **9985-12**
 SHEET No: **CC22413**

PLAN No: **9985-12-CC22413**
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112

Plotted: 28 July 2022 11:33:34 AM File Name: J:\9885D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\9885-12-CC22415.dwg

DESIGN STORM 1% AEP HYDRAULIC RESULTS

PIPE NAME (-)	PIPE DIAMETER (mm)	PIPE TYPE (-)	PIPE LENGTH (m)	PIPE GRADE (%)	CRITICAL STORM (min)	PEAK FLOW (L/s)	CAPACITY RATIO (-)	PEAK VELOCITY (m/s)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	D/S PIT Kw (-)	PIT LOSS (Ku.V'head) (m)	WSE LOSS (Kw.V'head) (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MINIMUM COVER (m)	MINIMUM FREEBOARD (m)	COMMENTS
C07/1 to C07/2	375	RRJ2	9	2	15	23	0.09	0.68	19.179	18.999	0.05	4.5	4.5	0.09	0.01	20.136	20.135	0.01	1.1	0.953	
C07/2 to C07/3	375	RRJ2	40.33	1	20	94	0.5	1.19	18.949	18.545	0.05	2.5	2.5	0.14	0.09	20.112	20.088	0.06	1.23	0.91	
C11/1 to C11/2	375	RRJ2	48.26	1	15	43	0.23	0.94	18.716	18.234	0.05	4.5	4.5	0.12	0.04	18.867	18.876	-0.02	1.1	1.309	
C11/2 to C11/3	375	RRJ2	22.51	1	20	136	0.72	1.4	18.184	17.958	0.05	1.34	1.34	0.13	0.1	18.833	18.777	0.25	1.34	1.02	
C11/3 to C11/4	375	RRJ2	25.96	1	10	138	0.73	1.45	17.908	17.649	0.05	2.05	2.53	0.17	0.2	18.704	18.634	0.27	1.8	1.781	
C11/4 to C11/5	375	RRJ2	14.34	1	10	138	0.72	1.44	17.599	17.455	0.05	0.54	0.44	0.06	0.03	18.62	18.578	0.29	1.85	1.177	
C11/5 to C11/6	375	RRJ2	14.48	1	10	184	0.97	1.73	17.405	17.261	0.05	1.37	1.49	0.13	0.14	18.536	18.467	0.48	1.75	0.959	
C55/1 to C11/5	375	RRJ2	9.51	2	15	48	0.18	1.16	18.129	17.938	0.295	4.5	4.5	0.16	0.04	18.656	18.654	0.02	1.1	1.242	
C65/1 to C65/2	375	RRJ2	15.36	2.67	25	-15	-0.05	0.99	19.74	19.33	0.252	4.5	4.5	0.09	0	20.064	20.065	-0.01	1.1	1.298	
C65/2 to C65/3	375	RRJ2	41.73	1	15	64	0.34	0.73	19.078	18.66	0.05	2.01	2.51	0.12	0.04	20.062	20.054	0.02	1.16	0.922	
C79/1 to C79/2	375	RRJ2	14.56	3.13	20	-16	-0.05	1.15	19.768	19.313	0.095	4.5	4.5	0.09	0	20.066	20.065	0.01	1.1	1.316	
C79/2 to C65/2	375	RRJ2	9.01	1	20	-31	-0.16	0.87	19.218	19.128	0.05	2.25	2.25	0.07	0.01	20.064	20.065	-0.01	1.1	0.926	
C82/1 to C11/2	375	RRJ2	15.11	1	15	70	0.37	1.06	18.508	18.357	0.173	4.5	4.5	0.15	0.09	18.885	18.876	0.06	1.1	1.024	
D01/1 to D01/2	375	RRJ2	12.18	1	15	31	0.16	0.87	18.734	18.613	0.05	4.5	4.5	0.11	0.02	18.868	18.878	-0.08	1	1.183	
D01/2 to D01/3	375	RRJ2	29.19	1	25	67	0.35	1.3	18.563	18.271	0.05	4.2	3.05	0.14	0.05	18.863	18.854	0.03	1.26	1.205	
E01/1 to E01/2	375	RRJ2	11.34	3.69	15	42	0.11	1.73	19.236	18.817	0.336	1.91	2.23	0.07	0.02	19.287	18.903	3.39	1.1	1.485	
E01/2 to E01/3	375	RRJ2	26.65	5.93	5	104	0.23	2.78	18.481	16.901	0.236	1.6	1.77	0.1	0.08	18.56	18.365	0.73	1.1	1.458	
E02/1 to E02/2	375	RRJ2	16.18	3.2	15	12	0.03	1.18	19.235	18.717	0.196	4.5	4.5	0.04	0	19.263	18.981	1.74	1.1	1.299	
E02/2 to E02/3	375	RRJ2	22.35	1.27	25	41	0.19	0.97	18.521	18.238	0.035	2.34	2.16	0.08	0.01	18.977	18.975	0.01	1.1	1.071	
E03/1 to E03/2	375	RRJ2	11	2	15	49	0.18	1.03	19.712	19.492	0.05	4.5	4.5	0.17	0.05	20.094	20.091	0.03	1.1	1.037	
E03/2 to E03/3	375	RRJ2	70.37	1	20	123	0.65	1.54	19.442	18.738	0.05	5.23	3.34	0.17	0.17	20.044	19.955	0.13	1.3	1.058	
E03/3 to E03/4	375	RRJ2	51.8	1	5	118	0.62	1.5	18.688	18.17	0.05	1.66	1.47	0.11	0.07	19.924	19.796	0.25	1.94	1.085	
E03/4 to E03/5	375	RRJ2	14.76	1	15	113	0.59	1.1	18.12	17.972	0.05	0.85	0.68	0.07	0.03	19.771	19.733	0.26	2.19	1.242	
F03/5 to F03/6	375	RRJ2	24.75	1.17	20	275	1.34	2.49	17.922	17.633	0.197	1.9	1.47	0.2	0.43	19.571	18.837	2.97	1.1	0.623	
E04/1 to E04/2	375	RRJ2	11	2	5	89	0.33	1.2	19.382	19.162	0.05	4.5	4.5	0.21	0.15	20.408	20.389	0.17	1.1	0.287	
E04/2 to E04/3	375	RRJ2	57.09	1	5	144	0.76	1.57	19.112	18.541	0.05	2.7	2.66	0.15	0.23	20.304	20.091	0.37	1.3	0.43	
E04/3 to E04/4	375	RRJ2	16.84	1	20	121	0.63	1.22	18.491	18.322	0.05	0.95	0.82	0.09	0.04	20.051	19.983	0.4	1.82	0.892	
E15/1 to E04/4	375	RRJ2	22.75	2.65	20	84	0.27	1.66	19.492	18.89	0.617	4.5	4.5	0.19	0.13	19.995	19.983	0.05	1.1	0.894	
E18/1 to E01/2	375	RRJ2	9.02	1.5	5	44	0.19	1.05	18.666	18.531	0.05	4.5	4.5	0.13	0.04	18.726	18.644	0.91	1.1	1.255	
E20/1 to E01/1	375	RRJ2	30.72	4.42	5	3	0.01	0.78	20.65	19.292	0.05	7.51	7.51	0.01	0	20.661	19.359	4.24	1.1	1.633	
F06/1 to F06/2	375	RRJ2	11.09	1	5	59	0.31	0.95	19.931	19.821	0.05	4.5	4.5	0.12	0.07	20.068	19.981	0.78	1.1	1.179	
F06/2 to F06/3	375	RRJ2	14.88	1	15	71	0.38	1.32	19.771	19.622	0.226	1.4	1.28	0.08	0.03	19.902	19.781	0.81	1.11	1.346	
F06/3 to F06/4	375	RRJ2	32.88	2.84	5	84	0.26	2.2	19.396	18.462	0.094	1.13	1.09	0.07	0.03	19.501	19.266	0.71	1.1	1.404	
F06/4 to F06/5	375	RRJ2	30.3	2.82	5	182	0.57	2.21	18.368	17.515	0.065	1.51	1.35	0.15	0.17	19.161	18.913	0.82	1.1	0.66	

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by
LAND DEVELOPMENT CERTIFICATES
 Signature.....*PR*.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
Land Development Certificates
 www.LDC.com.au

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
 **WINTAN PROPERTY GROUP**


STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**
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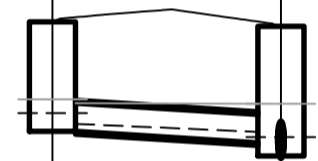
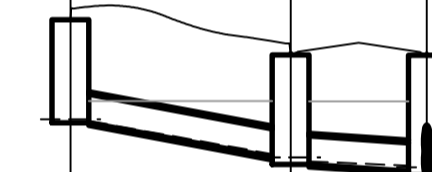
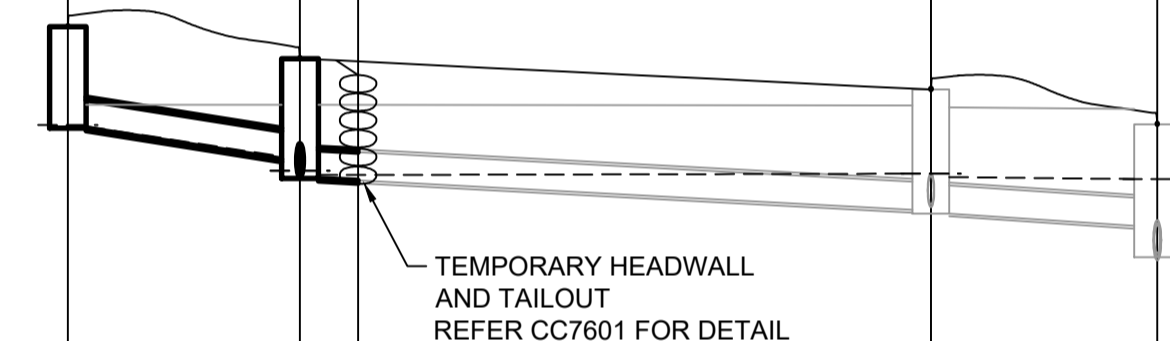
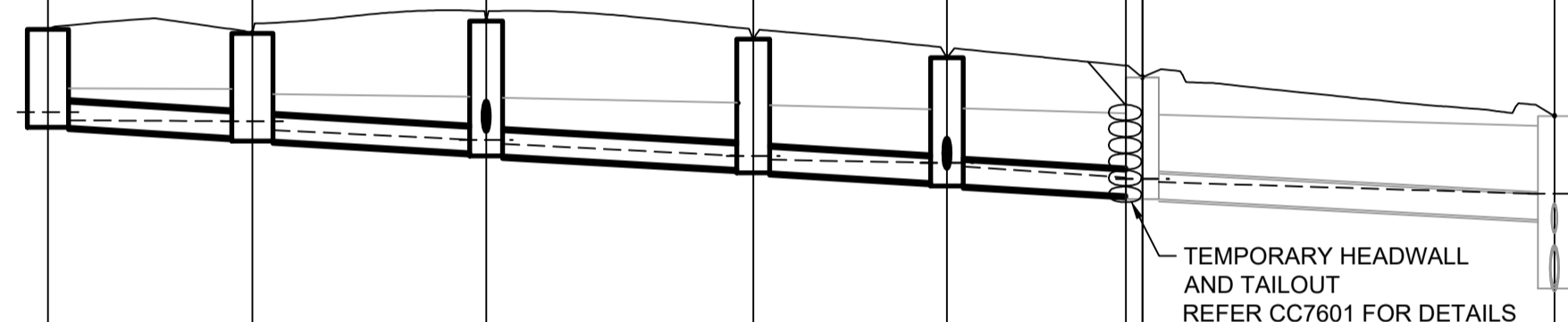
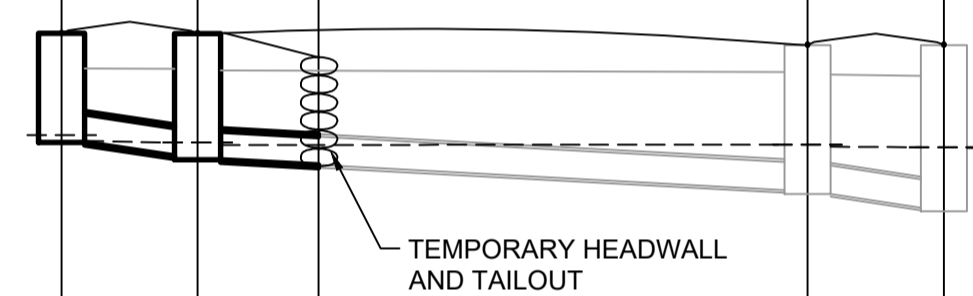
NEWPARK PRECINCT 7, ROAD A102
 PIT SCHEDULE SHEET 5
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22415

PROJECT No: **9985-12**
 SHEET No: **CC22415**
 A

NOTE:
 - - - 1% AEP HGL PROVIDED FOR STREET DRAINAGE AND FOR INFORMATION ONLY.
 - - - 10% AEP HGL

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



DATUM (m)	12.00
PEAK FLOW (L/s)	18
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.81
HGL GRADE (%)	0.23

WAE	
HYDRAULIC GRADE LINE	19.167
INVERT LEVEL	19.149
DESIGN SURFACE LEVEL	20.589
ROAD CHAINAGE	55.95
PIPE CHAINAGE	0

DATUM (m)	13.00
PEAK FLOW (L/s)	51
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	1.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.88
HGL GRADE (%)	0.08

LINE C07

DATUM (m)	12.00
PEAK FLOW (L/s)	43
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.15
HGL GRADE (%)	1.24

LINE C55

DATUM (m)	13.00
PEAK FLOW (L/s)	7
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	2.7
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	0.97
HGL GRADE (%)	2.59

LINE C65

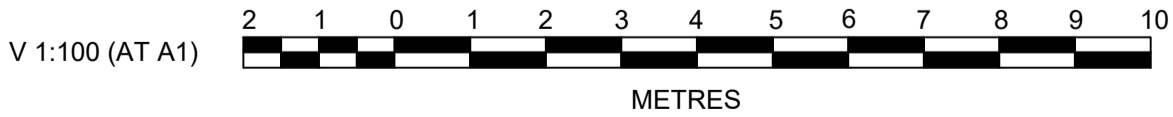
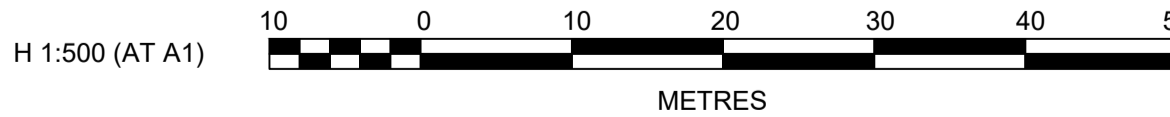
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PEAK FLOW (L/s)	8
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	3.1
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.06
HGL GRADE (%)	3.02

LINE C79

DATUM (m)	13.00
PEAK FLOW (L/s)	59
PIPE SIZE (mm)	375
PIPE CLASS	RRJ2
PIPE GRADE (%)	1.0
PIPE COVER MINIMUM	1.10
FULL PIPE VELOCITY (m/s)	1.03
HGL GRADE (%)	0.71

LINE C82

LDC Land Development Certificates
 Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 www.LDC.com.au



ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
WINTEN PROPERTY GROUP

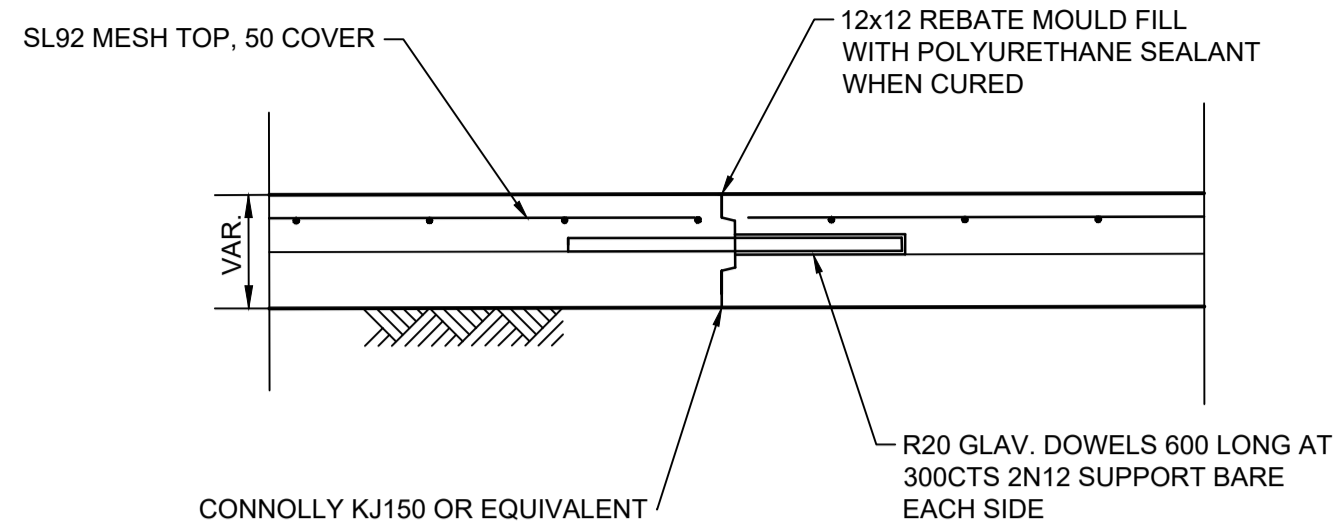
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ISSUE FOR CONSTRUCTION APPROVAL
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

NEWPARK PRECINCT 7, ROAD A102
 LONGITUDINAL DRAINAGE SHEET 1
 AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22421

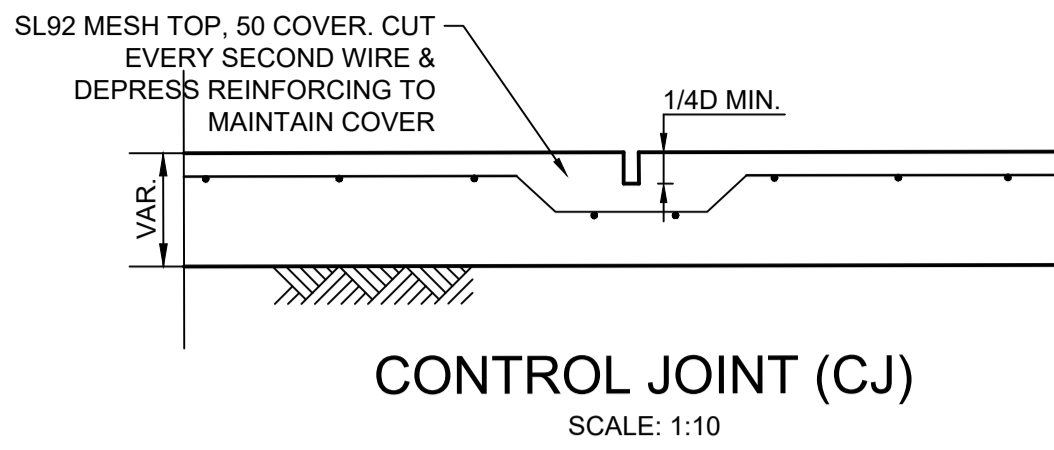
PROJECT No:
9985-12
 SHEET No:
CC22421
 A

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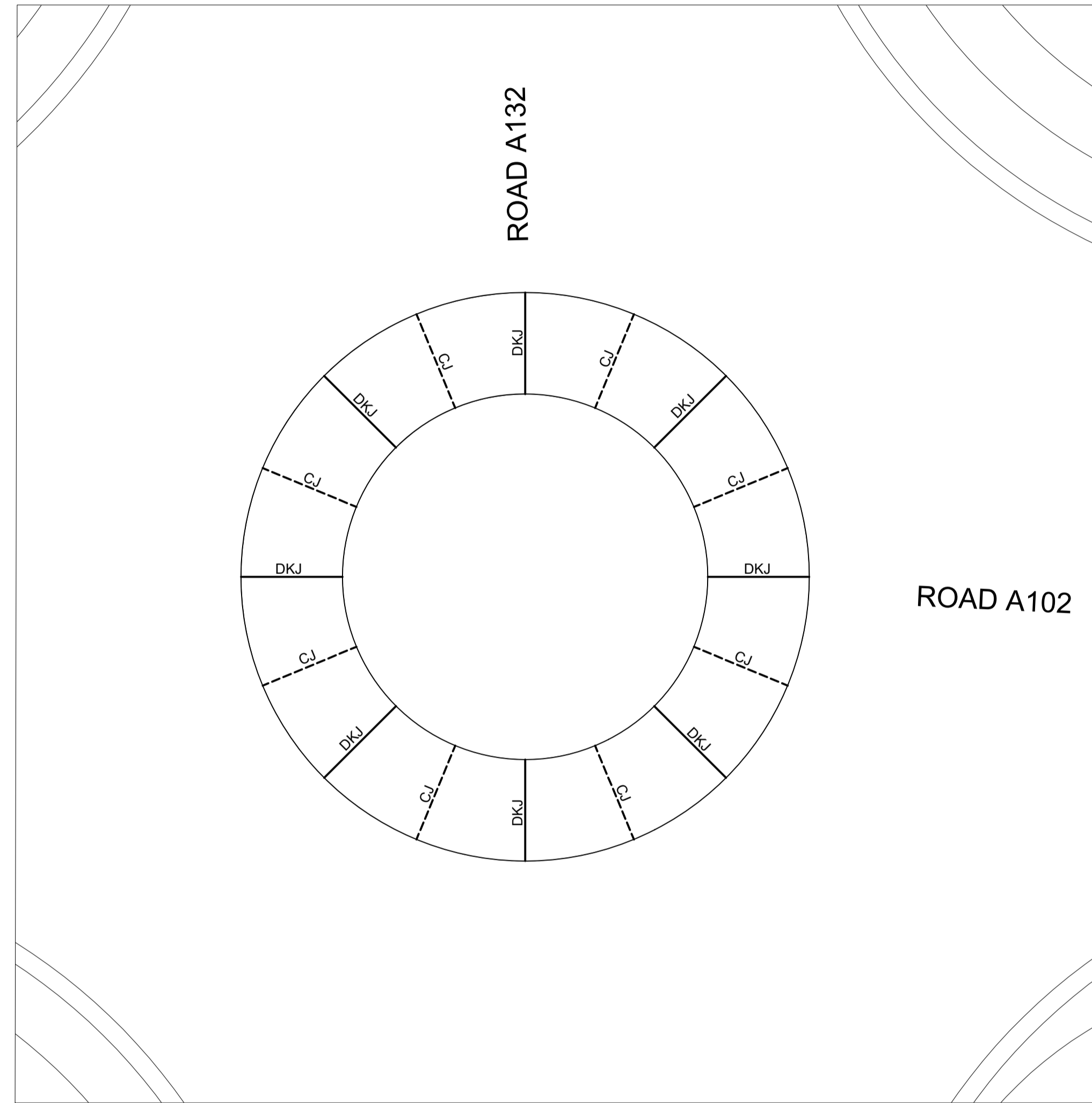
LEGEND	
--- CJ ---	KEY JOINT
— DKJ —	DOWELLED KEY JOINT



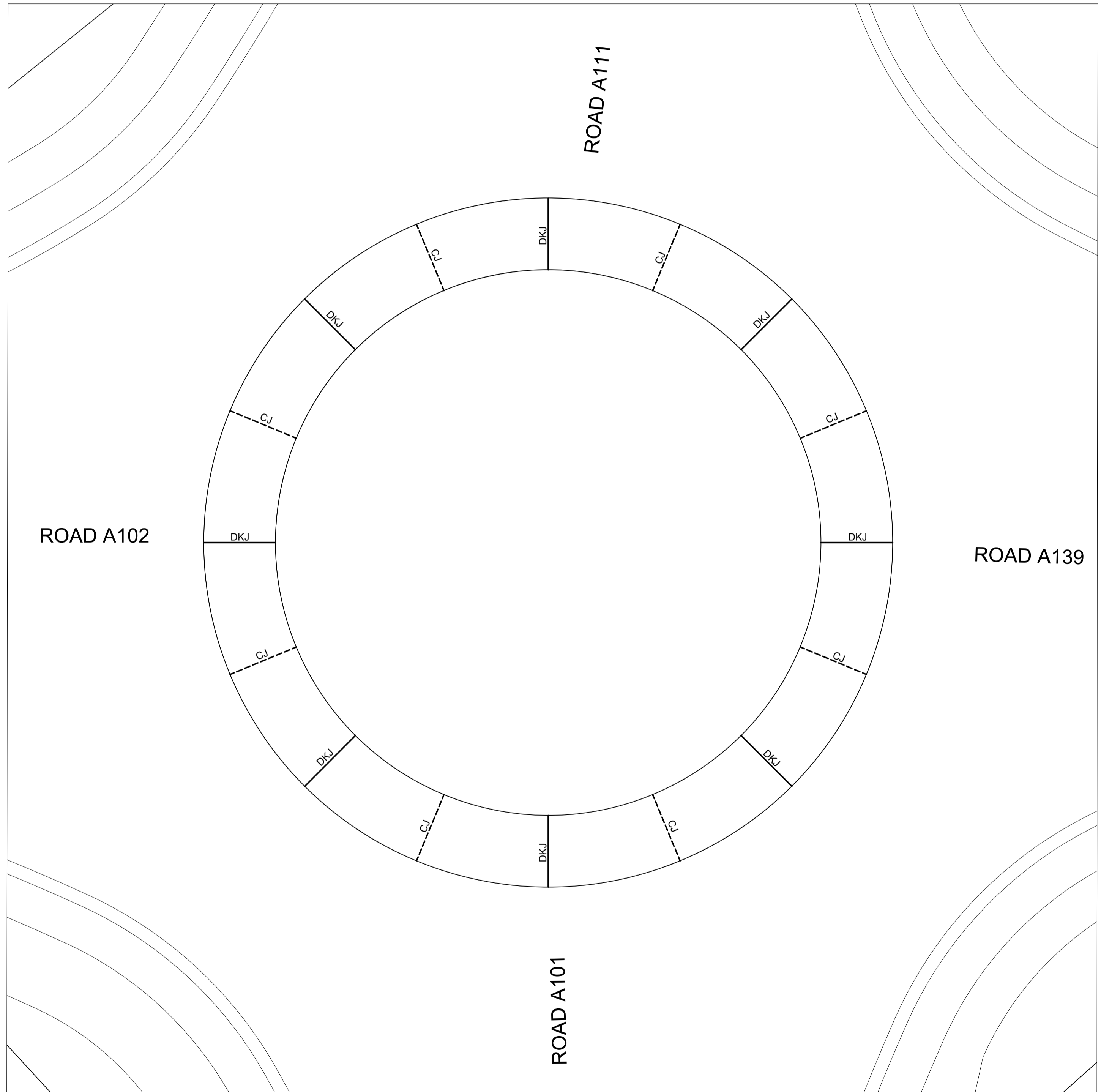
DOWELED KEY JOINT (DKJ)
SCALE: 1:10



CONTROL JOINT (CJ)
SCALE: 1:10



JOINTING PLAN
SCALE 1:100



JOINTING PLAN
SCALE 1:100

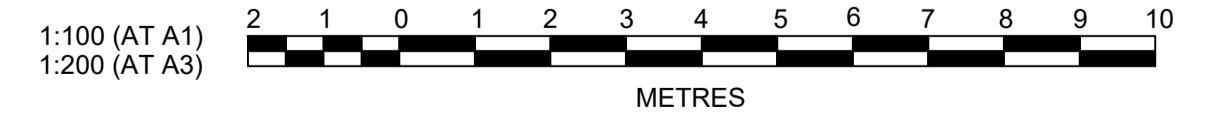
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

PAVEMENT NOTES:
 1. PAVEMENT DESIGN FOR CONTROLLED FILL TO HAVE A DESIGN CBR OF 4%. ALTERNATIVELY, EXISTING SUBGRADE CAN BE TREATED. REFER TO PAVEMENT DESIGN REPORT BY GEOTECHNICAL ENGINEER FOR TREATMENT DETAILS.
 2. THE PAVEMENT DESIGN IS PRELIMINARY ONLY AND SUBJECT TO CONFIRMATION VIA ON-SITE CBR TESTING PRIOR TO IMPORTATION AND PLACEMENT OF ROAD PAVEMENT MATERIALS

LDC Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe** Registered Certifier Registration No: BDC 3015 Categories: Certifier - Subdivision

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Plotted: 28 July 2022 11:34:29 AM File Name: J:\9985\9985 - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22501.dwg

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
A	ISSUE FOR INFORMATION	28/07/22	MS	DG	NJ
	AMENDMENT		APR	CKD	DRN
			DES	DRN	DES

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT: **WINTEN PROPERTY GROUP**

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102 JOINTING PLAN


PROJECT No: **9985-12**
 SHEET No: **CC22501**

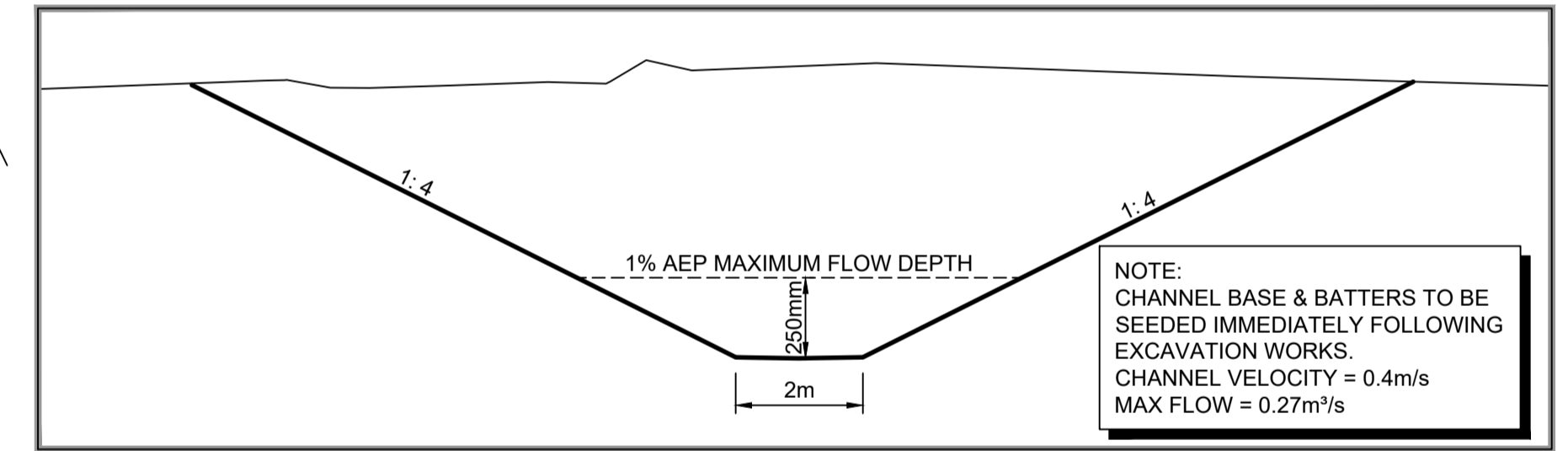
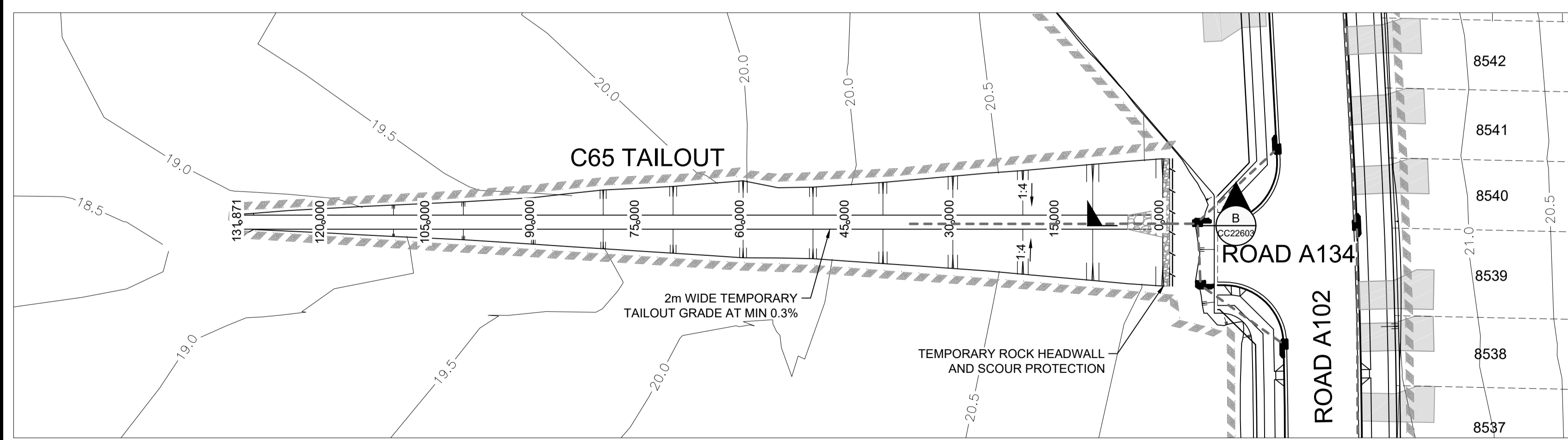
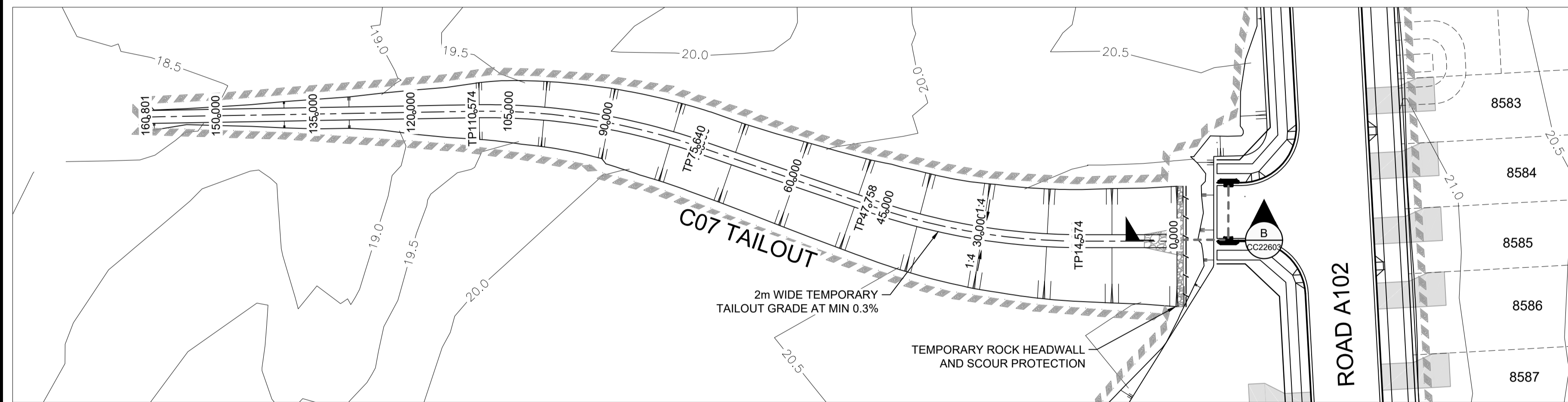
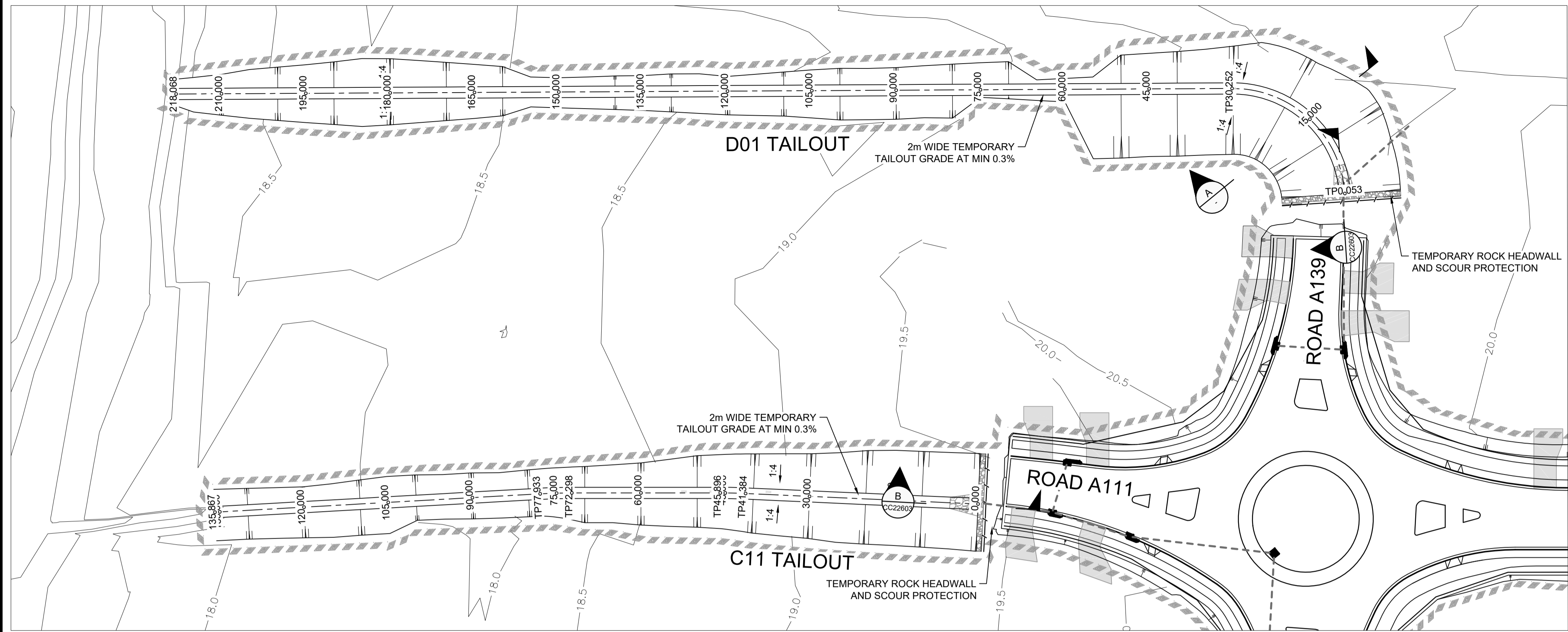
PLAN No: **9985-12-CC22501**

PROJECT No: **9985-12**
 SHEET No: **CC22501**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22501 **A**

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: 
PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7



SECTION A
TAILOUT TYPICAL SECTION
NTS

C07 TAILOUT					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295792.36	62697563.13	295°55'30.20"		
14.57	295779.26	62695569.5	295°55'30.20"		
31.17	295764.2	6269576.82		100	33.18
47.76	295752.34	6269588.65	314°56'17.83"		
75.64	295732.61	6269608.34	314°56'17.83"		
93.11	295720.11	6269620.81		-100	34.93
110.57	295704.11	6269628.24	294°55'21.53"		
160.8	295658.56	6269649.41	294°55'21.53"		

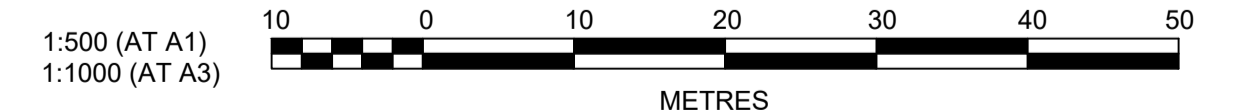
D01 TAILOUT					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295914.85	6269756.94	22°08'12.63"		
0.05	295914.87	6269756.99	22°08'12.63"		
15.15	295921.96	6269774.43		-20	30.2
30.25	295905	6269782.56	295°37'25.56"		
218.07	295735.65	6269863.79	295°37'25.56"		

C11 TAILOUT					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295832.05	6269735.85	298°30'37.17"		
41.38	295795.69	6269755.6	298°30'37.17"		
43.64	295793.7	6269756.68		-100	4.51
45.9	295791.67	6269757.67	295°55'30.23"		
72.3	295767.93	6269769.21	295°55'30.23"		
75.12	295765.39	6269770.44		-100	5.64
77.93	295762.79	6269771.53	292°41'46.87"		
135.87	295709.35	6269793.88	292°41'46.87"		

C65 TAILOUT			
CHAINAGE	EASTING	NORTHING	BEARING
0	295721.55	6269388.48	295°55'30.20"
131.87	295602.95	6269446.13	295°55'30.20"



Plans and specifications referenced in certificate no. 17799 issued by: **Christopher Louis Wahbe**
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision
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A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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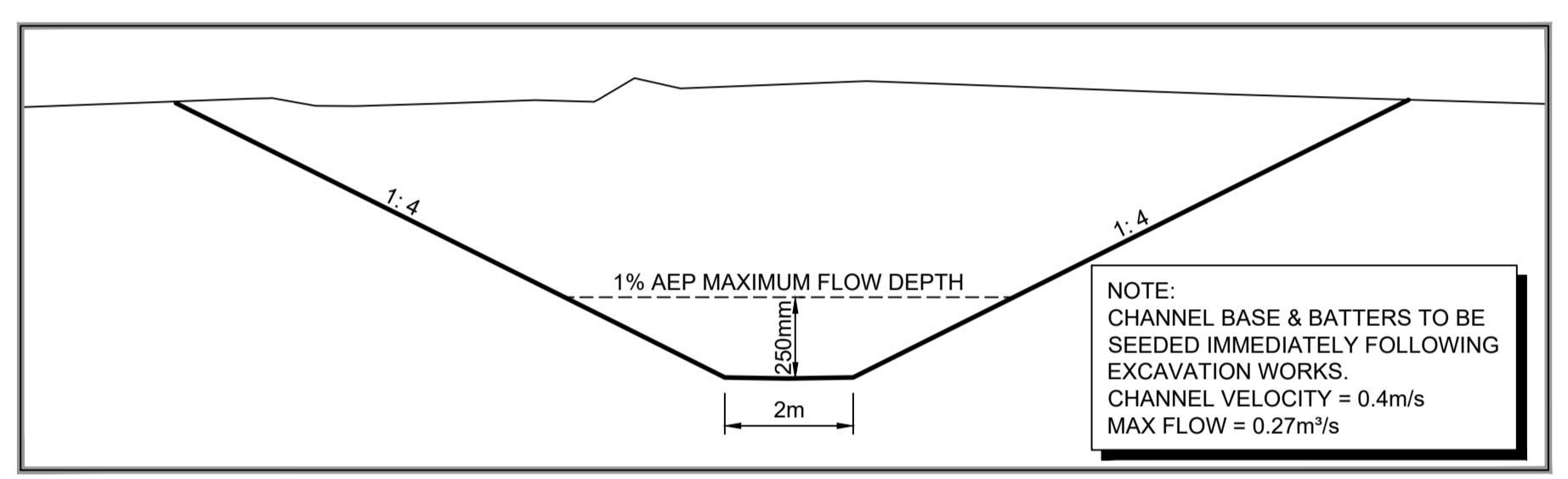
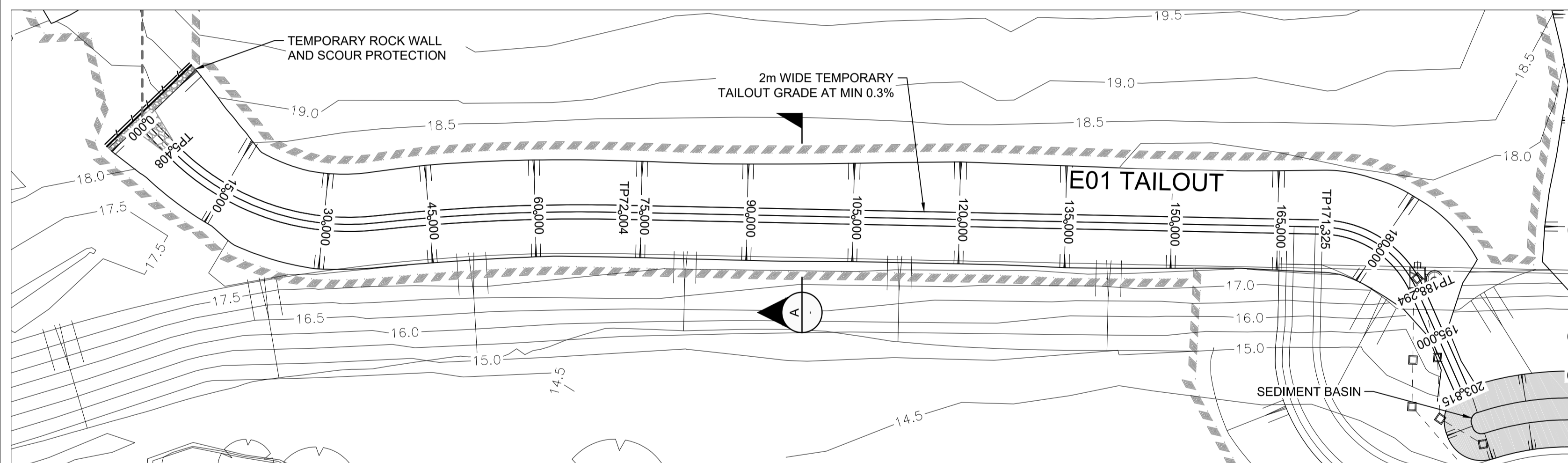
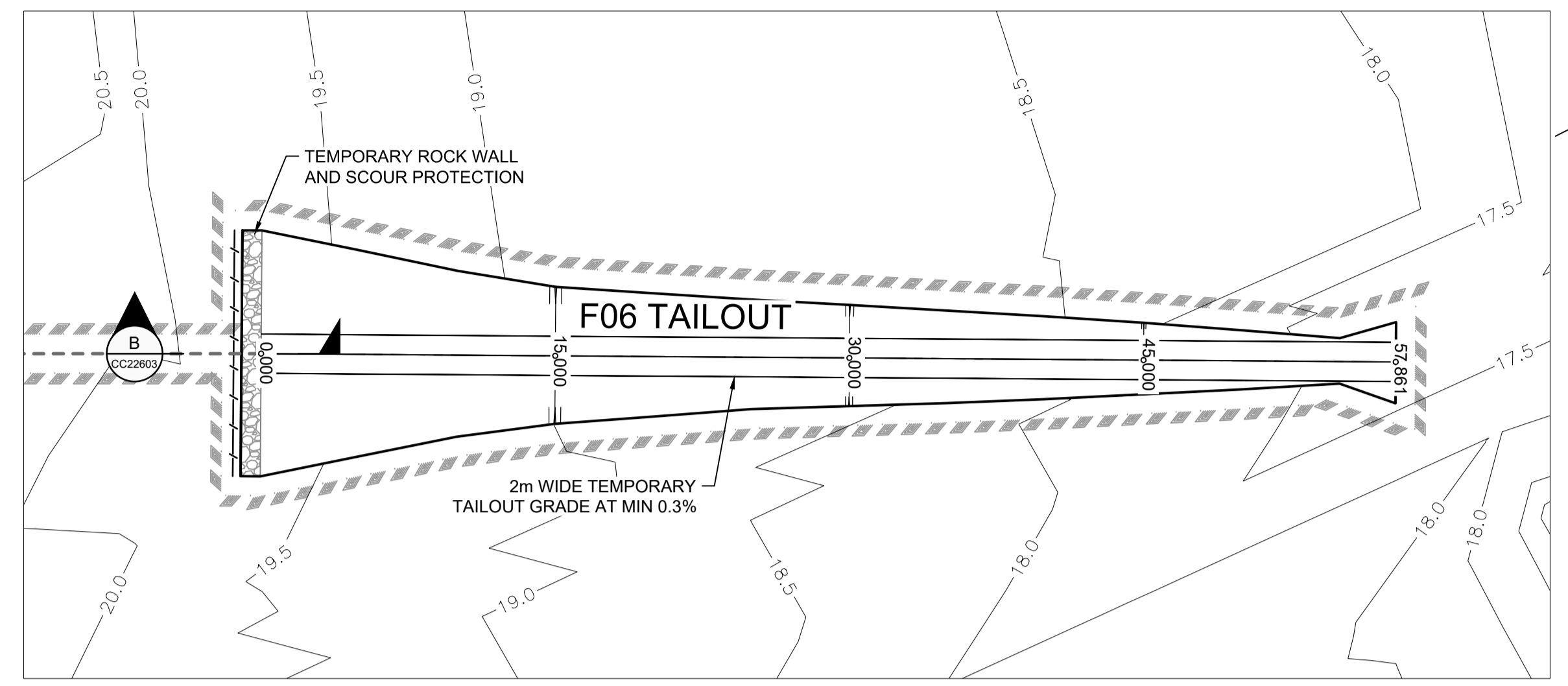
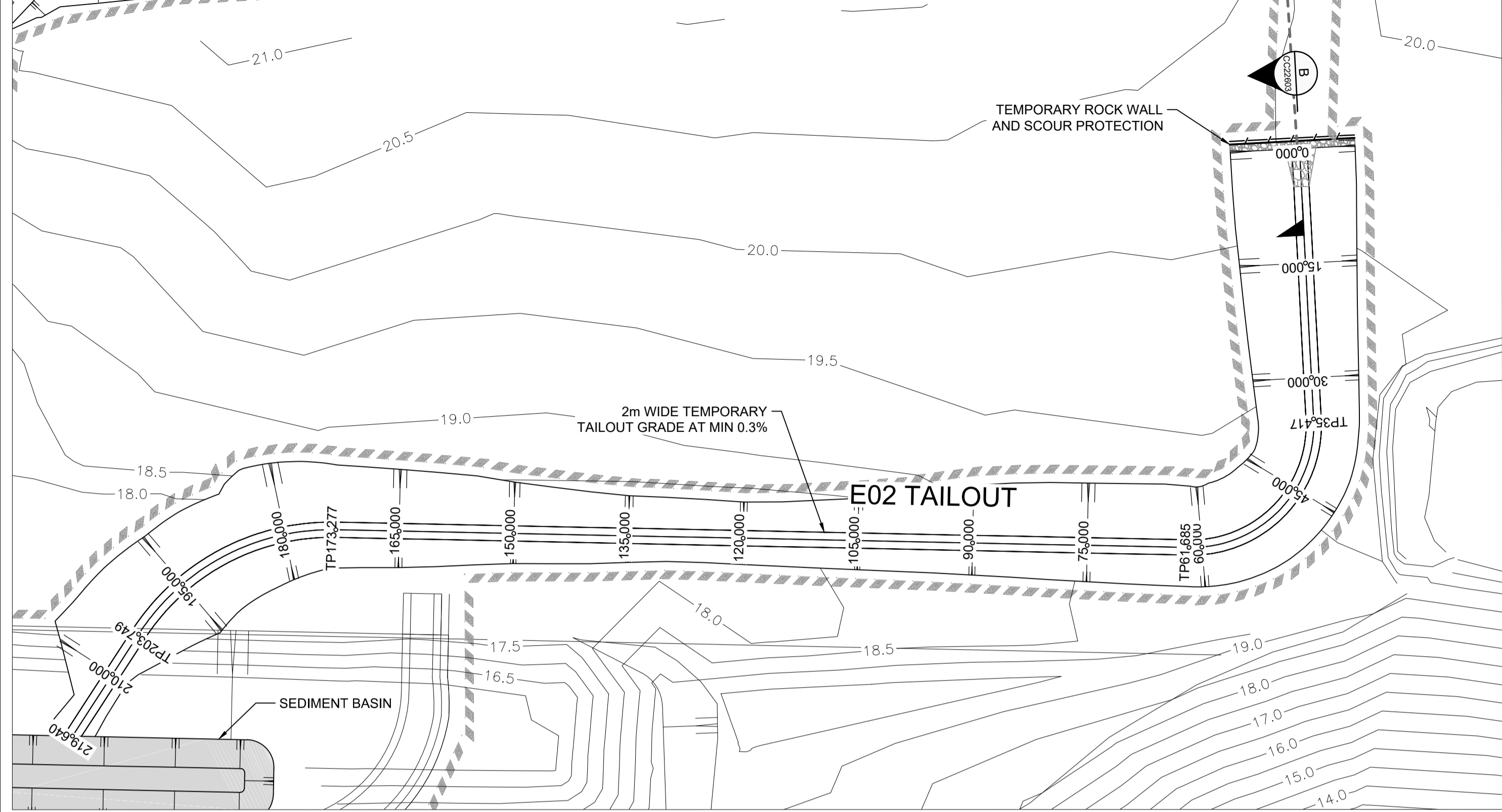
NEWPARK PRECINCT 7, ROAD A102 TAILOUT PLAN SHEET 1

PROJECT No: **9985-12**
SHEET No: **CC22600**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22600**

PROJECT No: **9985-12**
SHEET No: **CC22600**

PLAN No: **9985-12-CC22600**



SECTION A
TAILOUT TYPICAL SECTION
NTS

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

E01 TAILOUT					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295740.38	6269221.44	72°05'03.49"		
5.41	295745.53	6269223.1	72°05'03.49"		
21.4	295761.9	6269228.39		-35	31.98
37.39	295767.71	6269244.58	19°44'10.87"		
54.7	295773.56	6269260.9		268.35	34.62
72	295781.46	6269276.33	27°07'40.12"		
171.33	295826.75	6269364.72	27°07'40.12"		
179.81	295831.09	6269373.2		15	16.97
188.29	295840.61	6269372.87	91°56'44.12"		
203.81	295856.12	6269372.35	91°56'44.12"		

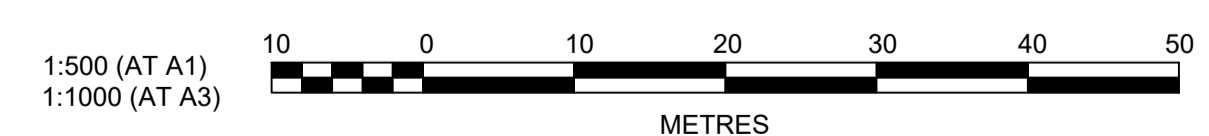
E02 TAILOUT					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	295872.58	6269587.08	112°56'20.69"		
35.42	295905.2	6269573.28	112°56'20.69"		
48.55	295921.03	6269566.58		15.98	26.27
61.68	295913.19	6269551.27	207°06'48.71"		
173.28	295862.33	6269451.95	207°06'48.71"		
188.51	295854.72	6269437.08		-30	30.47
203.75	295863.35	6269422.79	148°55'00.20"		
219.64	295871.55	6269409.18	148°55'00.20"		

E03 TAILOUT			
CHAINAGE	EASTING	NORTHING	BEARING
0	295802.8	6269418.51	116°04'37.12"
65.49	295861.62	6269389.72	116°04'37.12"

F06 TAILOUT			
CHAINAGE	EASTING	NORTHING	BEARING
0	295684.63	6269169.35	116°20'34.29"
57.86	295736.48	6269143.67	116°20'34.29"

LDC Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

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Plotfile: 28 July 2022 11:37:21 AM File Name: J:\9985DCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\9985-12-CC22601.dwg

NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED
A	ISSUE FOR INFORMATION	28/07/22	MS	DG	NJ
	AMENDMENT		DES	DRN	CKD

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK PRECINCT 7, ROAD A102 TAILOUT PLAN SHEET 2

PLAN No: **9985-12-CC22601**

PROJECT No: **9985-12**

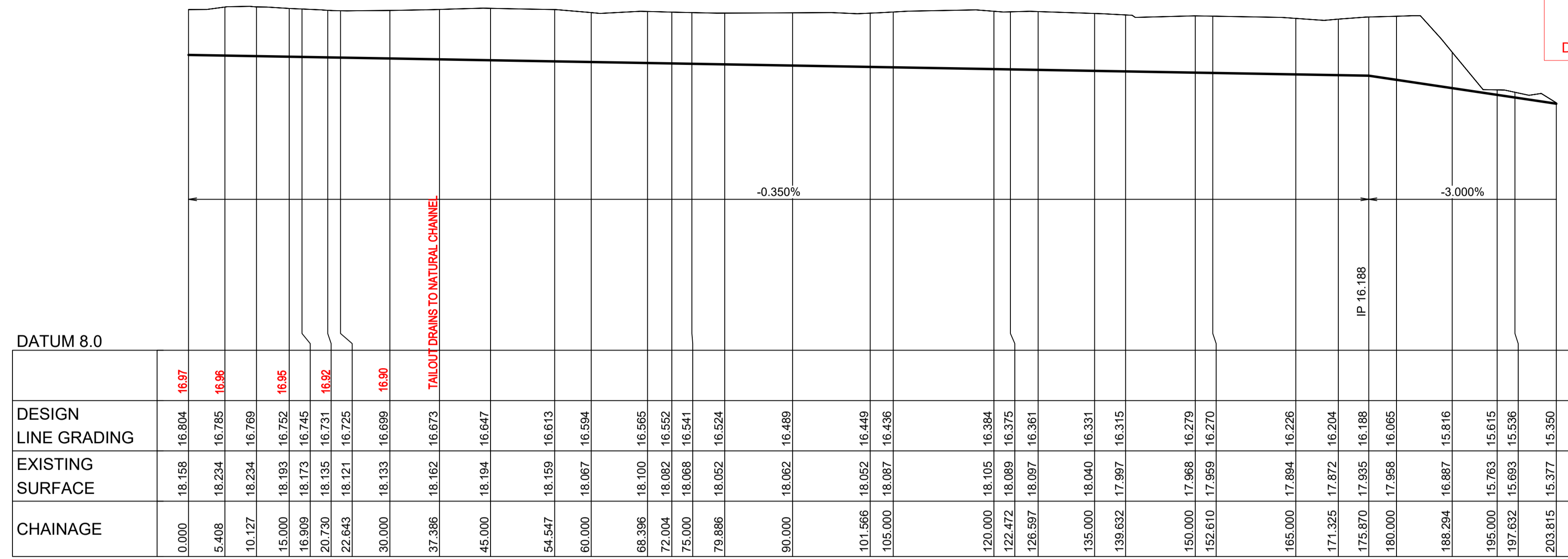
SHEET No: **CC22601**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112

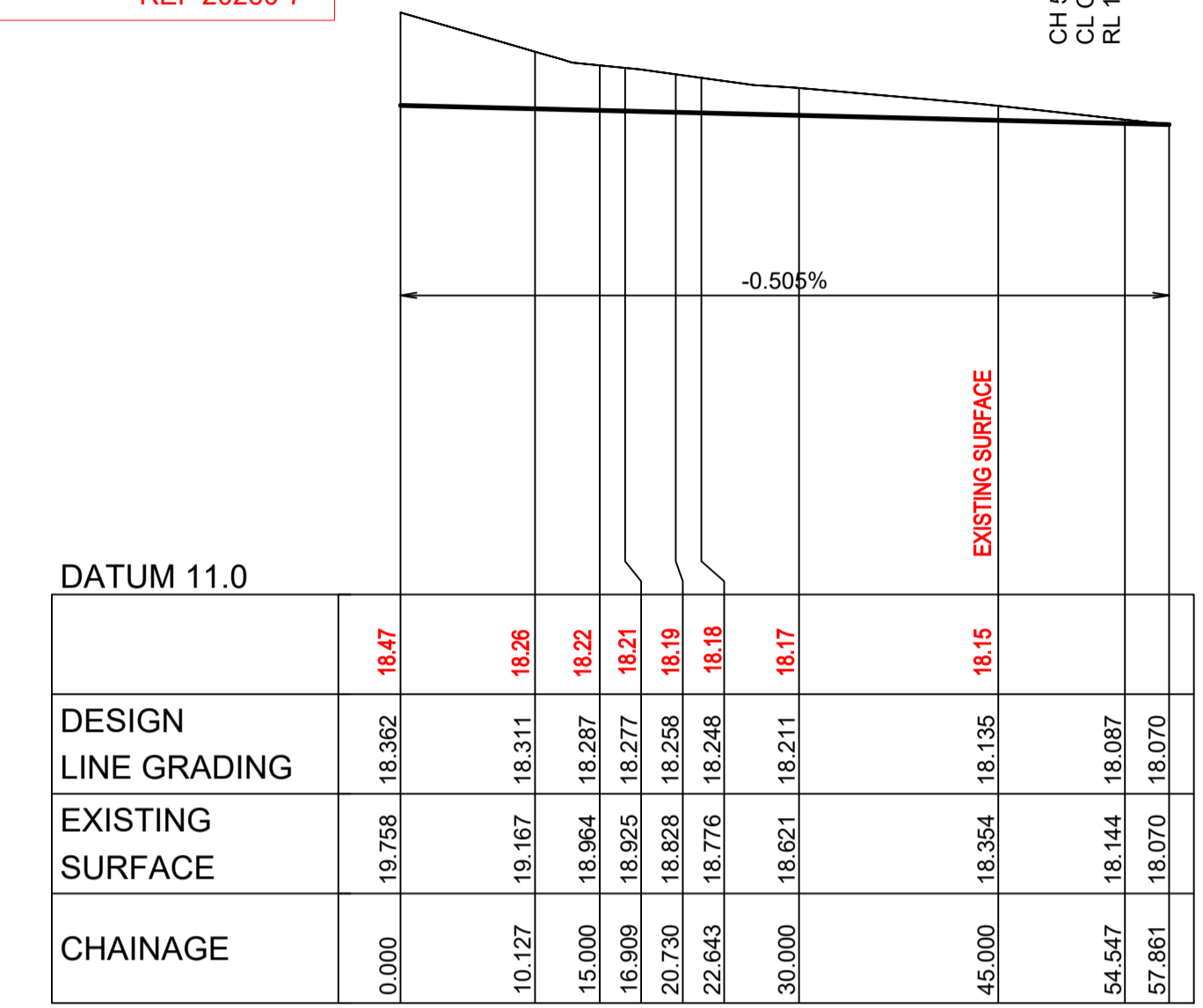
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature.....
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

CH 52.163m
 CL OF Road A136
 RL 18.475m

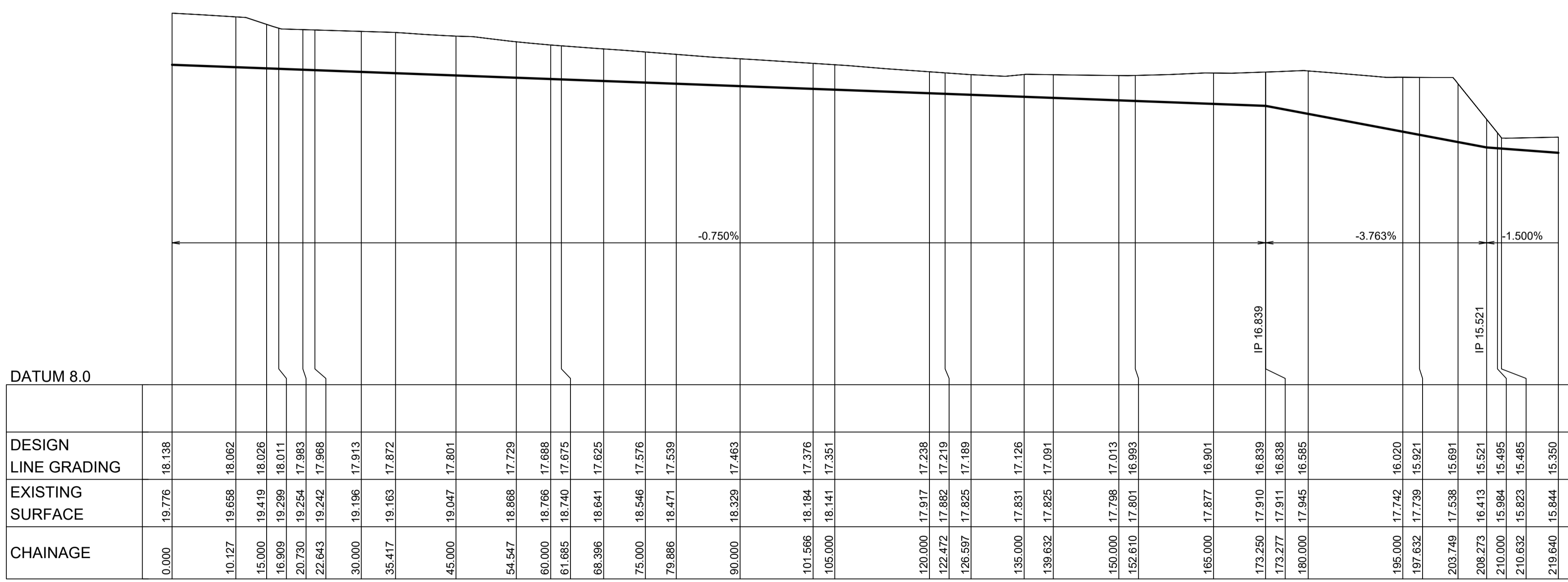


LONGITUDINAL SECTION E01 TAILOUT
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100

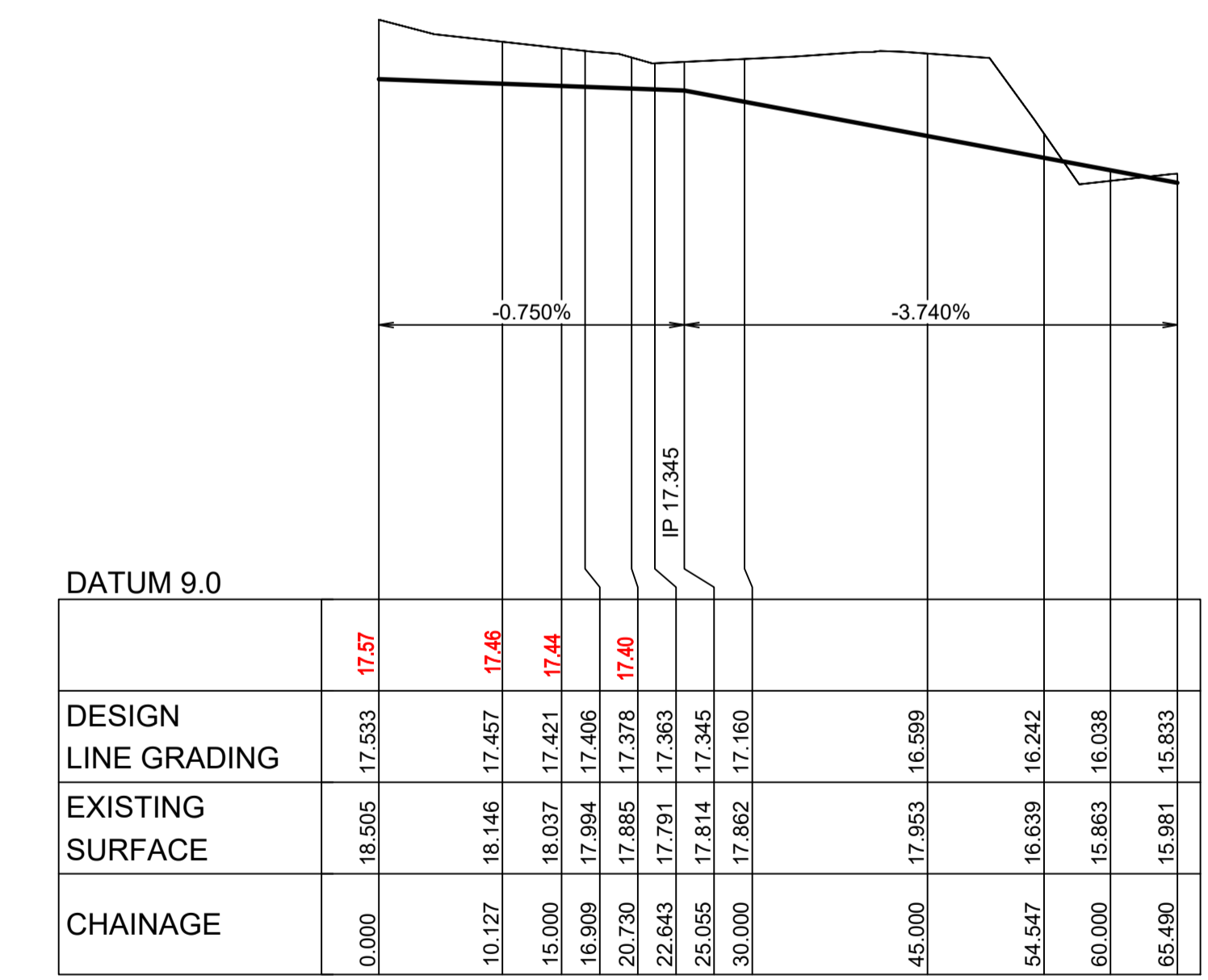


LONGITUDINAL SECTION F06 TAILOUT
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100

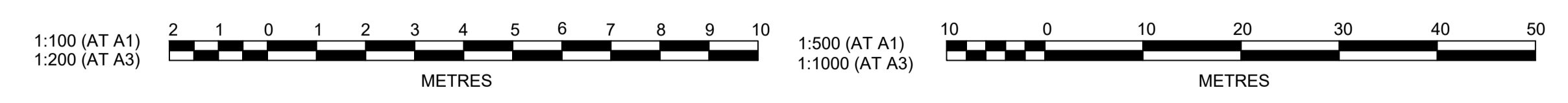
Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision
 Land Development Certificates
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LONGITUDINAL SECTION E02 TAILOUT
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



LONGITUDINAL SECTION E03 TAILOUT
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:100



Plotted: 28 July 2022 11:37:42 AM File Name: J:\9985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\9985-12-CC22604.dwg

A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

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NEWPARK PRECINCT 7, ROAD A102 TAILOUT LONGITUDINAL SECTIONS SHEET 3

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22604

PROJECT No: **9985-12**
 SHEET No: **CC22604**

SOIL AND WATER MANAGEMENT NOTES

GENERAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "SOILS AND CONSTRUCTION - VOLUME 1, 4TH EDITION, MARCH 2004".
- TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- ALL TAIL-OUT DRAINS SHALL BE COUCH GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- 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.
- ROADS SHALL BE PAVED AS EARLY AS POSSIBLE AFTER FORMATION.
- 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.
- ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS ARE COMPLETED.
- ALL SEDIMENT BASINS AND TRAPS SHALL BE CLEANED WHEN THE STRUCTURES ARE A MAXIMUM 60% FULL OF SOLID MATERIALS, INCLUDING DURING THE MAINTENANCE PERIOD.
- THE SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND COUNCIL'S WRITTEN GUIDELINES FOR THE DEVELOPMENT OF LAND.
- CONTRACTORS SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS SPECIFIED ON THE PLAN AND IN ACCORDANCE WITH THE GUIDELINES SHOWN IN "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION 4TH EDITION" (THE BLUE BOOK).
- ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REDUCING THE SOIL EROSION AND POLLUTION OF DOWNSLOPE AREAS.
- THE SOIL EROSION HAZARD ON THE SITE IS TO BE KEPT AS LOW AS POSSIBLE AND GENERALLY IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

LAND USE	LIMITATION	COMMENTS
CONSTRUCTION AREAS	DISTURBANCE TO BE NO FURTHER THAN 5m (PREF 2m) FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON THESE PLANS	ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES - WHERE APPROPRIATE THE CONSTRUCTION AREAS ARE TO BE IDENTIFIED WITH BARRIER FENCING (DOWNSLOPE) OR SIMILAR MATERIAL.
ACCESS AREAS	LIMITED TO A MAXIMUM WIDTH OF 10m	THE SITE MANAGER SHALL DETERMINE AND MARK THE LOCATION OF THESE ZONES ONSITE. THEY CAN VARY IN POSITION TO BEST CONSERVE THE EXISTING VEGETATION AND PROTECT DOWNSTREAM AREAS WHILE BEING CONSIDERATE OF THE NEEDS OF EFFICIENT WORKS ACTIVITIES. ALL SITE WORKERS SHALL CLEARLY RECOGNISE THEIR BOUNDARIES. WHERE APPROPRIATE THE ACCESS AREAS ARE TO BE MARKED WITH BARRIER MESH, SEDIMENT FENCING OR SIMILAR MATERIALS.
REMAINING LANDS	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH	THINNING OF GROWTH MAY BE REQUIRED FOR FIRE HAZARD REDUCTION.

- NOTE:
WORKS WITHIN WATERWAYS AND CREEKS SHALL BE RESTRICTED AS DIRECTED - ALL LANDS WITHIN CREEKS AND WATERWAYS SHALL HAVE A GROUND COVER MORE THAN 70%, USING MATERIALS THAT CAN CATER FOR CONCENTRATED FLOWS.
- WORKS ARE TO BE UNDERTAKEN IN THE FOLLOWING SEQUENCE. EACH SUBSEQUENT STAGE IS NOT TO COMMENCE UNTIL THE PREVIOUS ONE IS COMPLETE:-
 - INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 6-8.
 - CONSTRUCT STABILISED SITE ACCESS AS SHOWN ON THE PLAN AND TO DETAIL (SD) 6-14.
 - CONSTRUCT LOW FLOW EARTH BANKS WHERE SHOWN ON THE PLAN AND TO DETAIL (SD) 5-5.
 - PROVIDE TEMP. ACCESS TO THE SEDIMENT BASIN(S) AND PROTECT THIS WITH SEDIMENT FENCING (SD) 6-8 OR BARRIER FENCING AND EARTH BANKS (SD) 5-5.
 - PLACE SEDIMENT FENCING (SD) 6-8 DOWNSLOPE OF LANDS TO BE DISTURBED FOR CONSTRUCTION OF THE SEDIMENT BASINS.
 - CONSTRUCT SEDIMENT BASIN(S) GENERALLY IN ACCORDANCE WITH (SD) 6-4
 - STABILISE LAND SURFACES DISTURBED BY CONSTRUCTION OF THE SEDIMENT BASIN(S) AS SOON AS FINAL LEVELS ARE ESTABLISHED
 - CLEAR THE SITE AND STRIP AND STOCKPILE THE TOPSOIL IN THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE SITE SUPERINTENDENT TO DETAIL (SD) 4-1.
 - UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS.
 - GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION WORKS
 - REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
 - CLEARLY VISIBLE BARRIER FENCING SHALL BE INSTALLED WHERE DIRECTED BY THE SITE SUPERINTENDENT TO CONTROL AND PROHIBIT UNNECESSARY SITE DISTURBANCE
 - EARTH BATTERS SHALL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER THAN:-
 - 2(h) - 1(v) WHERE SLOPE LENGTH IS LESS THAN 7m
 - 2.5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 7m AND 10m
 - 3(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 10m AND 12m
 - 4(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 12m AND 18m
 - 5(h) - 1(v) WHERE SLOPE LENGTH IS BETWEEN 18m AND 27m
 - 6(h) - 1(v) WHERE SLOPE LENGTH IS GREATER THAN 27m

SLOPE LENGTHS CAN BE SHORTENED BY USING LOW FLOW EARTH BANKS AS CATCH DRAINS ABOVE THE EARTH BATTER AREA.

- PROTECTION FROM EROSION FORCES SHALL BE UNDERTAKEN ON ALL LANDS. GROUND COVER TO BE IN PLACE WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY ANY CONCENTRATED FLOWS.
- TEMPORARY GROUND COVER SHOULD BE MINIMUM 70%. FOOT AND VEHICULAR TRAFFIC SHALL BE KEPT AWAY FROM REHABILITATED AREAS.
- WHERE POSSIBLE THE CONSTRUCTION PROGRAM IS TO SCHEDULE WORKS SUCH THAT LAND DISTURBANCE ACTIVITIES ARE COMPLETED IN LESS THAN 6 MONTHS. REVEGETATION WORKS MUST BE CARRIED OUT AS STIPULATED IN THE RELEVANT COUNCIL GUIDELINES / SPECIFICATIONS SUCH THAT A SATISFACTORY GROUND COVER IS PROVIDED TO AT LEAST 60% OF THE DISTURBED AREA WITHIN 10 DAYS AND AT LEAST 70% OF THE DISTURBED AREA WITHIN A FURTHER 60 DAYS.
- SEDIMENT FENCES (SD) 6-8 SHALL:-
 - BE INSTALLED WHERE SHOWN ON THE PLAN AND AS DIRECTED AT THE DISCRETION OF THE SITE SUPERINTENDENT DURING THE COURSE OF CONSTRUCTION TO CONTAIN THE COARSER SEDIMENT FRACTIONS AS NEAR AS POSSIBLE TO THEIR SOURCE.
 - HAVE A CATCHMENT AREA NOT EXCEEDING 720sq.m. AND A STORAGE DEPTH OF AT LEAST 0.6m.
 - PROVIDE AN UPSLOPE RETURN OF 1m AT INTERVALS ALONG THE FENCE WHERE THE CATCHMENT AREA EXCEEDS 720sq.m. TO LIMIT THE DISCHARGE REACHING EACH SECTION TO 50litres/sec IN A MAX. 10yr Tc DISCHARGE.
- STOCKPILES (SD) 4-1 SHALL BE LOCATED AS SHOWN ON THE PLANS AND AT THE DISCRETION OF THE SITE SUPERINTENDENT.
- DURING WINDY WEATHER LARGE UNPROTECTED AREAS ARE TO BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. IN THE EVENT WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES SOIL BINDERS AND/OR DUST RETARDANTS SHALL BE USED OR THE SURFACE SHALL BE LEFT IN A CLODDY STATE THAT RESISTS REMOVAL BY WIND.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 5m OF HAZARD AREAS, INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS OR DRIVEWAYS.
- THE SEDIMENT RETENTION BASINS (SD) 6-4 SHALL:-
 - BE CONSTRUCTED WHERE SHOWN ON THE PLANS.
 - BE FLOCCULATED (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) BEFORE DISCHARGE OCCURS (UNLESS THE DESIGN STORM EVENT IS EXCEEDED)
 - HAVE ONE OR MORE PEGS PLACED ON THE FLOOR TO CLEARLY INDICATE THE LEVEL AT WHICH DESIGN CAPACITY OCCURS AND WHEN SEDIMENT SHALL BE REMOVED.
- STORED CONTENTS OF THE BASINS SHALL BE TREATED WITH GYPSUM (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.) OR OTHER FLOCCULATING AGENTS WHERE THEY CONTAIN MORE THAN 50mg/litre OF SUSPENDED SOLIDS. TREATMENT SHALL BE AS FOLLOWS:-
 - LOWER SUSPENDED SOLIDS TO LESS THAN 50mg/litre WITHIN 24hrs OF FILLING
 - THE BASINS SHALL THEN BE ALLOWED TO STAND 36 TO 48hrs FOR FLOCCULATED PARTICLES TO SETTLE
 - THE BASINS SHALL THEN BE DRAINED SO THAT FULL STORAGE CAPACITY IS REGAINED WITHOUT DISCHARGING SEDIMENT FROM THE SITE.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE SHALL BE DISPOSED IN LOCATIONS WHERE FURTHER EROSION AND CONSEQUENT POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS SHALL NOT OCCUR.
- WATER SHALL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE (ie THE CATCHMENT HAS BEEN LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN TREATED IN AN APPROVED DEVICE) NEVERTHELESS STORMWATER INLETS SHALL BE PROTECTED (SD) 6-11 & 6-12.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED.
- ACCEPTABLE BINS SHALL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES SHALL BE PROVIDED AT LEAST ONCE A WEEK.

STOCKPILE NOTES:

- SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- 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.
- FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATED.

SEDIMENTATION CONTROL DEVICES:

- 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 600mm INTO THE GROUND AND LOCKED ON THE BALE CENTRELIN.
- SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2.5m CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.
- PROVIDE STRIP OF TURF MIN. 300mm WIDE BEHIND KERB + 1m WIDE AROUND ALL SURFACE INLET PITS

SITE INSPECTION AND MAINTENANCE:

- A SELF-AUDITING PROGRAM SHALL BE ESTABLISHED BASED ON AN INSPECTION TEST PLAN (ITP) OR LOG BOOK. A SITE INSPECTION USING THE ITP SHALL BE MADE BY THE SITE MANAGER:-
 - AT LEAST WEEKLY
 - IMMEDIATELY BEFORE SITE CLOSURE
 - IMMEDIATELY FOLLOWING RAINFALL EVENTS IN EXCESS OF 5mm IN ANY 24hr PERIOD.


THE SELF AUDIT SHALL INCLUDE:-

 - RECORDING THE CONDITION OF EVERY 'BEST MANAGEMENT PRACTICE' EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH 'BEST MANAGEMENT PRACTICE'
 - RECORDING THE VOLUMES OF SEDIMENT REMOVED FROM SEDIMENT RETENTION SYSTEMS WHERE APPLICABLE
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER FOR THEIR INFORMATION.
- IN ADDITION A SUITABLY QUALIFIED PERSON SHALL BE RESPONSIBLE FOR OVERSEEING THE INSTALLATION AND MAINTENANCE OF ALL SOIL AND WATER MANAGEMENT WORKS ON THE SITE. THE PERSON SHALL BE REQUIRED TO SPEND A MINIMUM OF:-
 - 2hrs ONSITE EACH FORTNIGHT UP UNTIL COMPLETION OF ROAD AND DRAINAGE WORKS AND/OR THE COMMISSIONING OF SEDIMENT BASIN(S)/WATER QUALITY CONTROL FACILITIES, AND DURING THE DECOMMISSIONING OF SAME AND/OR FINAL SITE STABILISATION. TO PROVIDE A SHORT MONTHLY WRITTEN REPORT.
 - ONE HOUR ONSITE EACH 2 MONTHS DURING THAT PHASE WHERE THE DEVELOPERS RESPONSIBILITIES ARE LIMITED TO MAINTENANCE OF THE SDS DEVICES AND/OR SEDIMENT BASINS (ie DURING THE STAGE WHEN BUILDING WORKS CAN BE UNDERTAKEN) TO PROVIDE A SHORT WRITTEN REPORT EACH 4 MONTHS

THE RESPONSIBLE PERSON SHALL ENSURE THAT:-

 - THIS PLAN IS BEING IMPLEMENTED CORRECTLY
 - REPAIRS ARE BEING UNDERTAKEN AS REQUIRED
 - ESSENTIAL MODIFICATIONS TO THIS PLAN ARE BEING MADE IF AND WHEN NECESSARY. EACH REPORT SHALL CERTIFY THAT WORKS HAVE BEEN CARRIED OUT ACCORDING TO THE APPROVED PLANS.
- WASTE BINS SHALL BE EMPTIED AS NECESSARY, DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT
- PROPER DRAINAGE OF THE SITE SHALL BE MAINTAINED. DRAINS (INCLUDING INLET AND OUTLET WORKS) SHALL BE CHECKED TO ENSURE THAT THEY ARE OPERATING AS INTENDED, ESPECIALLY THAT:-
 - NO LOW POINTS EXIST WHICH CAN OVERTOP IN A LARGE STORM EVENT.
 - AREAS OF EROSION ARE REPAIRED (e.g LINED WITH SUITABLE MATERIAL) AND/OR VELOCITY OF FLOW IS REDUCED APPROPRIATELY THROUGH CONSTRUCTION OF SMALL CHECK DAMS OR INSTALLING ADDITIONAL DIVERSIONS UPSLOPE
 - BLOCKAGES ARE CLEARED (THESE MIGHT OCCUR BECAUSE OF SEDIMENT POLLUTION, SAND/SOIL/SPOIL BEING DEPOSITED IN OR TOO CLOSE TO THEM, BREACHED BY VEHICLE WHEELS etc)
- SAND/SOIL/SPOIL MATERIALS PLACED CLOSER THAN 2m FROM HAZARD AREAS SHALL BE REMOVED SUCH HAZARD AREAS INCLUDE ANY AREAS OF HIGH VELOCITY WATER FLOWS (eg WATERWAYS AND GUTTERS) PAVED AREAS AND DRIVEWAYS.
- RECENTLY STABILISED LANDS SHALL BE CHECKED TO ENSURE THAT THE EROSION HAZARD HAS BEEN EFFECTIVELY REDUCED. ANY REPAIRS SHALL BE INITIATED AS APPROPRIATE.
- EXCESSIVE VEGETATIVE GROWTH SHALL BE CONTROLLED THROUGH MOWING OR SLASHING.
- ALL SEDIMENT DETENTION SYSTEMS SHALL BE KEPT IN GOOD WORKING CONDITION. IN PARTICULAR ATTENTION SHALL BE GIVEN TO:-
 - RECENT WORKS TO ENSURE THAT THEY HAVE NOT RESULTED IN DIVERSION OF SEDIMENT LADEN WATER AWAY FROM THEM.
 - DEGRADABLE PRODUCTS TO ENSURE THAT THEY ARE REPLACED AS REQUIRED
 - SEDIMENT REMOVAL TO ENSURE THE DESIGN CAPACITY OR LESS REMAINS IN THE SETTLING ZONE.
- ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS SHALL BE CONSTRUCTED AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS (ie MAKE ONGOING CHANGES TO THIS PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECT TO CHANGES IN CONDITIONS AT THE WORKS SITE OR ELSEWHERE IN THE CATCHMENT.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORKS ACTIVITIES ARE COMPLETED AND THE SITE STABILISED.
- WATERS IN SEDIMENT RETENTION BASIN(S) THAT OCCUPY MORE THAN 1/4 OF THE DESIGN CAPACITY DURING THAT STAGE OF THE WORKS UP UNTIL COMMISSIONING OF THE BASIN(S) SHALL BE:-
 - TREATED WITH A FLOCCULATING AGENT (APPENDIX E MANAGING URBAN STORMWATER SOILS & CONSTRUCTION 4TH ED.)
 - DISCHARGED WITHIN 5 days FROM THE CONCLUSION OF ANY STORM EVENT LARGE ENOUGH TO FILL THE BASIN TO THAT LEVEL.
- LITTER, DEBRIS AND COARSE SEDIMENT SHALL BE REMOVED FROM THE GROSS POLLUTANT TRAPS AND TRASH RACKS AS REQUIRED.

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature:  PETER ROBERT WARWICK
Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
DATE 30/10/2024 REF 20260-7

 Plans and specifications referenced in certificate no. 17799 issued by: Christopher Louis Wahbe
Registered Certifier Registration No: BDC 3015
Categories: Certifier - Subdivision

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	AMENDMENT	DES	DRN	CKD	APR	DATE	

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

 WINTEN PROPERTY GROUP

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NEWPARK PRECINCT 7, ROAD A102
SOIL & WATER MANAGEMENT NOTES

PROJECT No: **9985-12**
SHEET No: **CC22700**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22700**

PROJECT No: **9985-12**
SHEET No: **CC22700**

A

1. Site Data Sheet

Site Name: NEWPARK PRECINCT 7G
 Site Location: MARSDEN PARK
 Precinct: BLACKTOWN CITY COUNCIL
 Description of Site: SEDIMENT BASIN TO SUPPORT THE PRECINCT 7G SUBDIVISION CONSTRUCTION

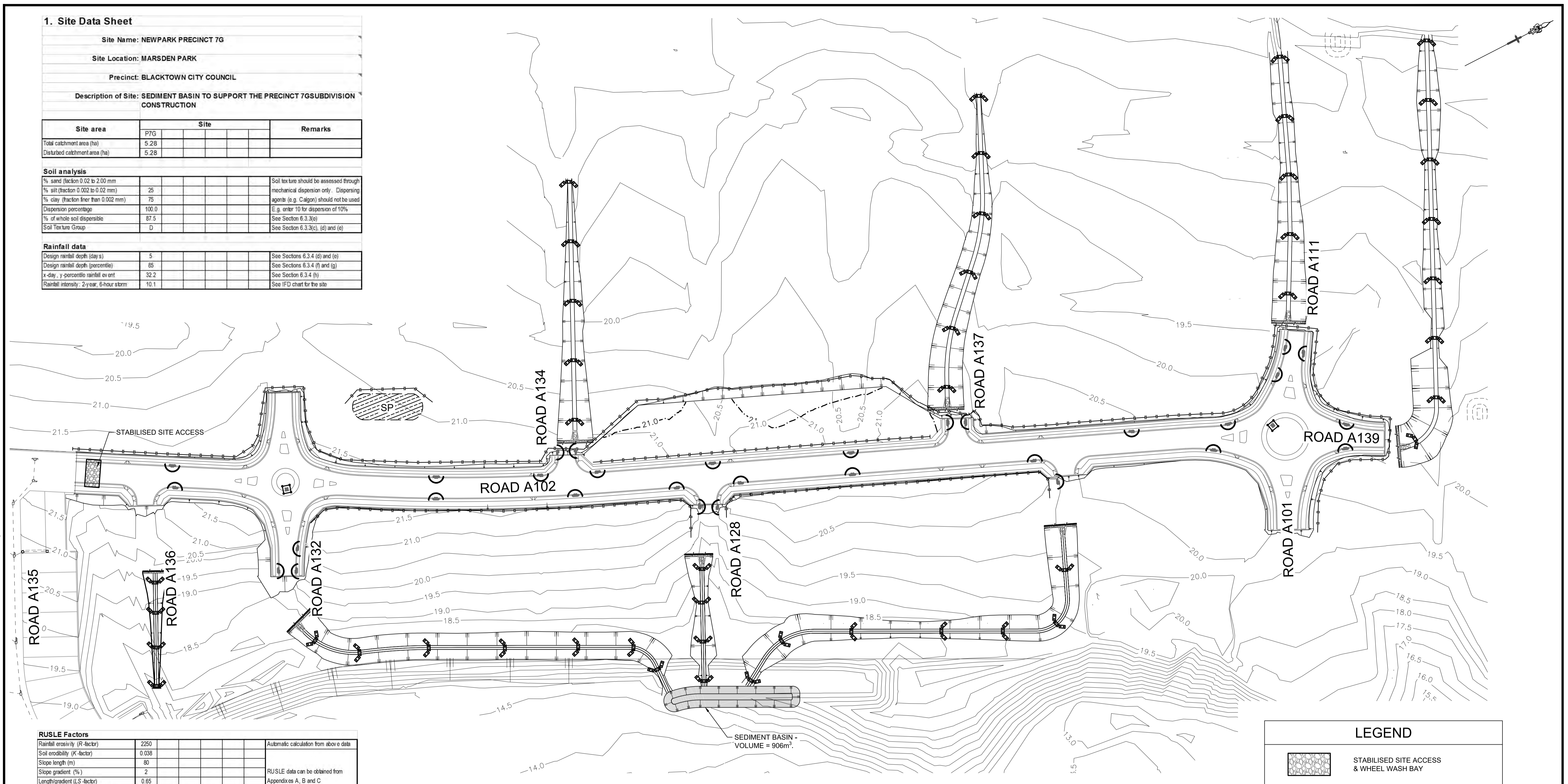
Site area	Site	Remarks
Total catchment area (ha)	P7G	
Disturbed catchment area (ha)	5.28	

Soil analysis

% 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
% silt (fraction 0.002 to 0.02 mm)	25	
% clay (fraction finer than 0.002 mm)	75	
Dispersion percentage	100.0	E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	87.5	See Section 6.3.3(e)
Soil Texture Group	D	See Section 6.3.3(c), (d) and (e)

Rainfall data

Design rainfall depth (day/s)	5	See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	85	See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	32.2	See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	10.1	See IFD chart for the site



RUSLE Factors

Rainfall erosivity (R-factor)	2250	Automatic calculation from above data
Soil erosibility (K-factor)	0.038	
Slope length (m)	80	
Slope gradient (%)	2	RUSLE data can be obtained from Appendixes A, B and C
Length/gradient (LS-factor)	0.65	
Erosion control practice (P-factor)	1.3	
Ground cover (C-factor)	1	

Calculations

Soil loss (t/ha/y)	72	
Soil Loss Class	1	See Section 4.4.2(b)
Soil loss (m³/ha/y)	56	
Sediment basin storage volume, m³	50	See Sections 6.3.4(i) and 6.3.5 (e)

Total Basin Volume

Site	C _v	R _{x-day, y%}	Total catchment area (ha)	Settling zone volume (m³)	Sediment storage volume (m³)	Total basin volume (m³)
P7G	0.50	32.2	5.28	850.08	50	900.08

LEGEND

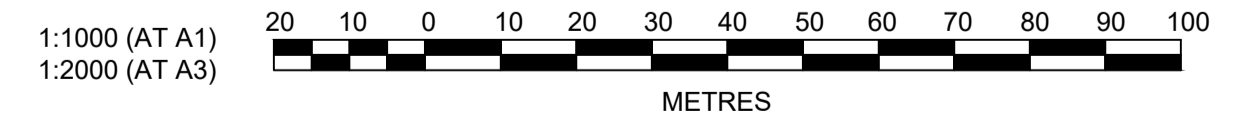
- STABILISED SITE ACCESS & WHEEL WASH BAY
- SEDIMENT FENCE
- STRAW BALE BARRIER
- STOCKPILE
- MESH AND GRAVEL INLET FILTER
- GEOTEXTILE INLET FILTER

I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *Peter Robert Warwick*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

LDC Plans and specifications referenced in certificate no. 17799 issued by:
Christopher Louis Wahbe
 Registered Certifier Registration No: BDC 3015
 Categories: Certifier - Subdivision

Land Development Certificates
 www.LDC.com.au



ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
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J. WYNDHAM PRINCE
 CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:

WINTEN PROPERTY GROUP

STATUS: **ISSUE FOR CONSTRUCTION APPROVAL**

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NEWPARK
 PRECINCT 7, ROAD A102
 SOIL & WATER MANAGEMENT PLAN

PROJECT No: **9985-12**
 SHEET No: **CC22701**

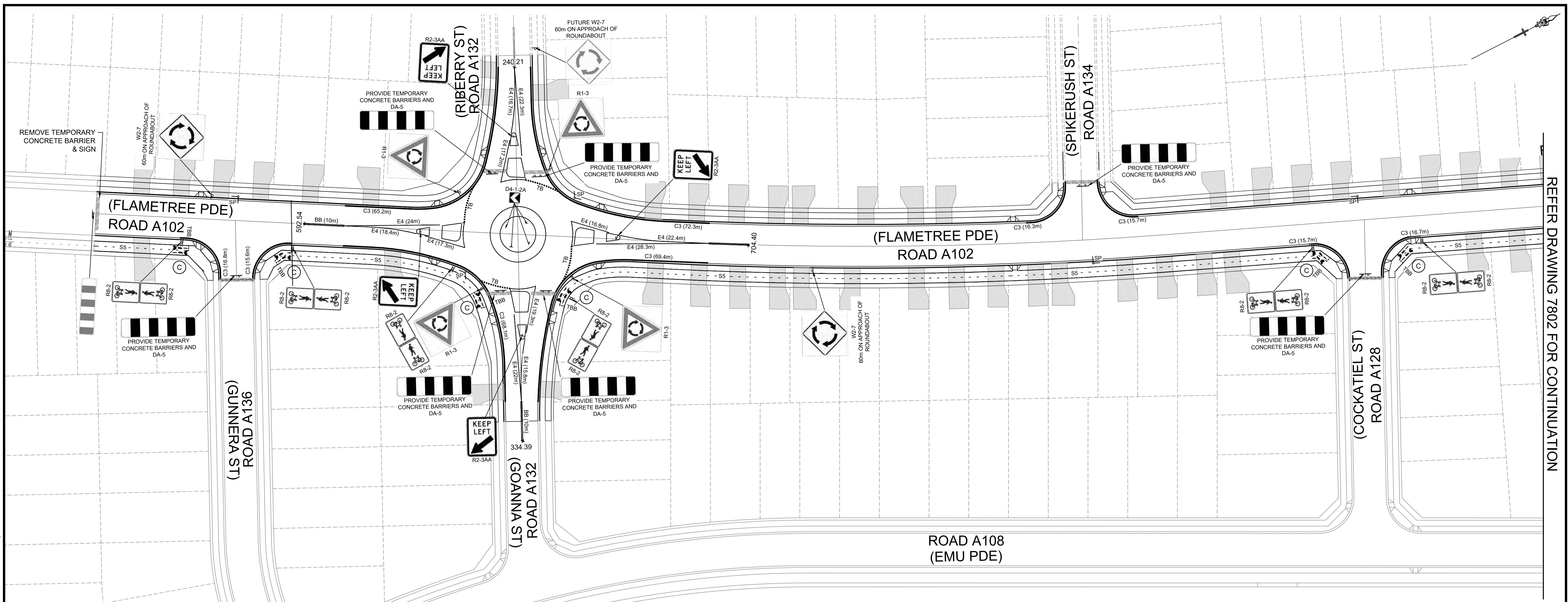
PLAN No: **9985-12-CC22701**

AZIMUTH: M.G.A.94
 DATUM: A.H.D.
 ORIGIN: SSM 1112

A

Plotted: 28 July 2022 11:38:27 AM File Name: J:\9985\DC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7G\Road A102\9985-12-CC22701.dwg

Plotted: 28 July 2022 11:38:50 AM File Name: J:\985D\CC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS\7 - Precinct 7\Road A102\985-12-CC22801.dwg



REFER DRAWING 7802 FOR CONTINUATION

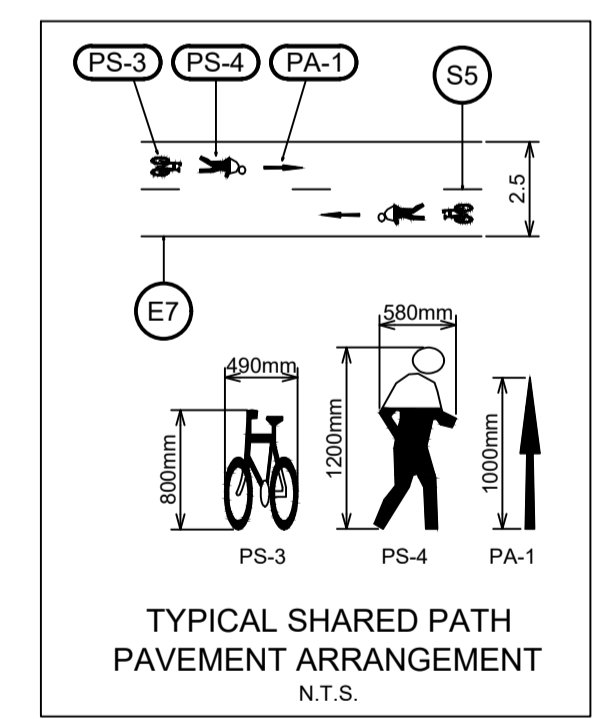
NOTES

1. ALL PAVEMENT MARKINGS, CHEVRONS AND REFLECTORS ARE TO BE IN ACCORDANCE WITH AUSTRROADS GUIDE TO TRAFFIC MANAGEMENT PART 6 AND AUSTRALIAN STANDARDS, AS1742.9 AND AS1743.
2. ALL SIGNS TO BE IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD, AS 1743 - ROAD SIGNS AND COUNCIL'S SPECIFICATION UNLESS OTHERWISE SHOWN.
3. ROAD SIGNS ARE SIZE 'B', UNLESS OTHERWISE SHOWN. LOCATE OUTSIDE OF CLEAR ZONES.
4. ALL NEW PAVEMENT MARKINGS ARE TO BE INSTALLED IN WHITE, REFLECTIVE, THERMOPLASTIC PAINT.
5. KERBSIDE LANE WIDTHS INCLUDE THE WIDTH OF THE GUTTER.
6. RE-MARK EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE COUNCIL'S ENGINEER.
7. PAVEMENT MARKINGS THAT FORM NO PART OF THE FINAL WORKS ARE TO BE REMOVED BY SAND BLASTING OR OTHER METHOD AS APPROVED BY THE PROJECT MANAGER.
8. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE SHOWN.

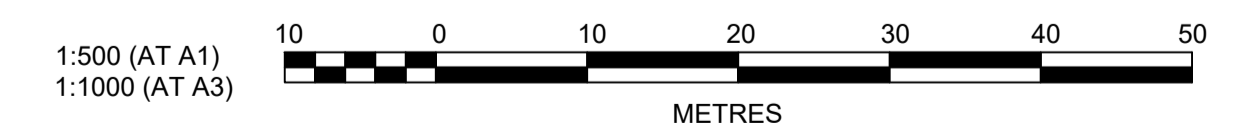
I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES
 Signature:
 PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

PAVEMENT MARKING SCHEDULE

CODE	USE	STYLE	COLOUR & TYPE
BB	Barrier line where sight is restricted in both directions or approach to median island		Reflectorised white type 'YY' pavement markers bi-directional reflective yellow
C3	Kerbside Linemarking for No-Stopping Restrictions		Reflectorised yellow
E4	Outline of traffic island or freeway ramp gore		Reflectorised white type 'Y' OR 'R' pavement markers mono-directional reflective yellow or red
TB	Give way line (Used with Signs)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
S4	Bicycle lane continuous separation line for off-road bike path		Reflectorised white
S5	Bicycle lane separation line for off-road bike path (straight sections)		Reflectorised white
TBB	Give way line on Path		Reflectorised white
C	Shared Path		Reflectorised white



THESE SIGNAGE AND LINEMARKING PLANS ARE SUBJECT TO APPROVAL BY BLACKTOWN CITY COUNCIL TRAFFIC COMMITTEE



NO.	DESCRIPTION	DATE	BY	CHKD	APR	DATE
A	ISSUE FOR INFORMATION	28/07/22	KE/DG	NJ	DG	MS
	AMENDMENT		DES	DRN	CKD	APR

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 PO Box 4366 PENRITH WESTFIELD NSW 2750
 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

CLIENT:
WINTER PROPERTY GROUP

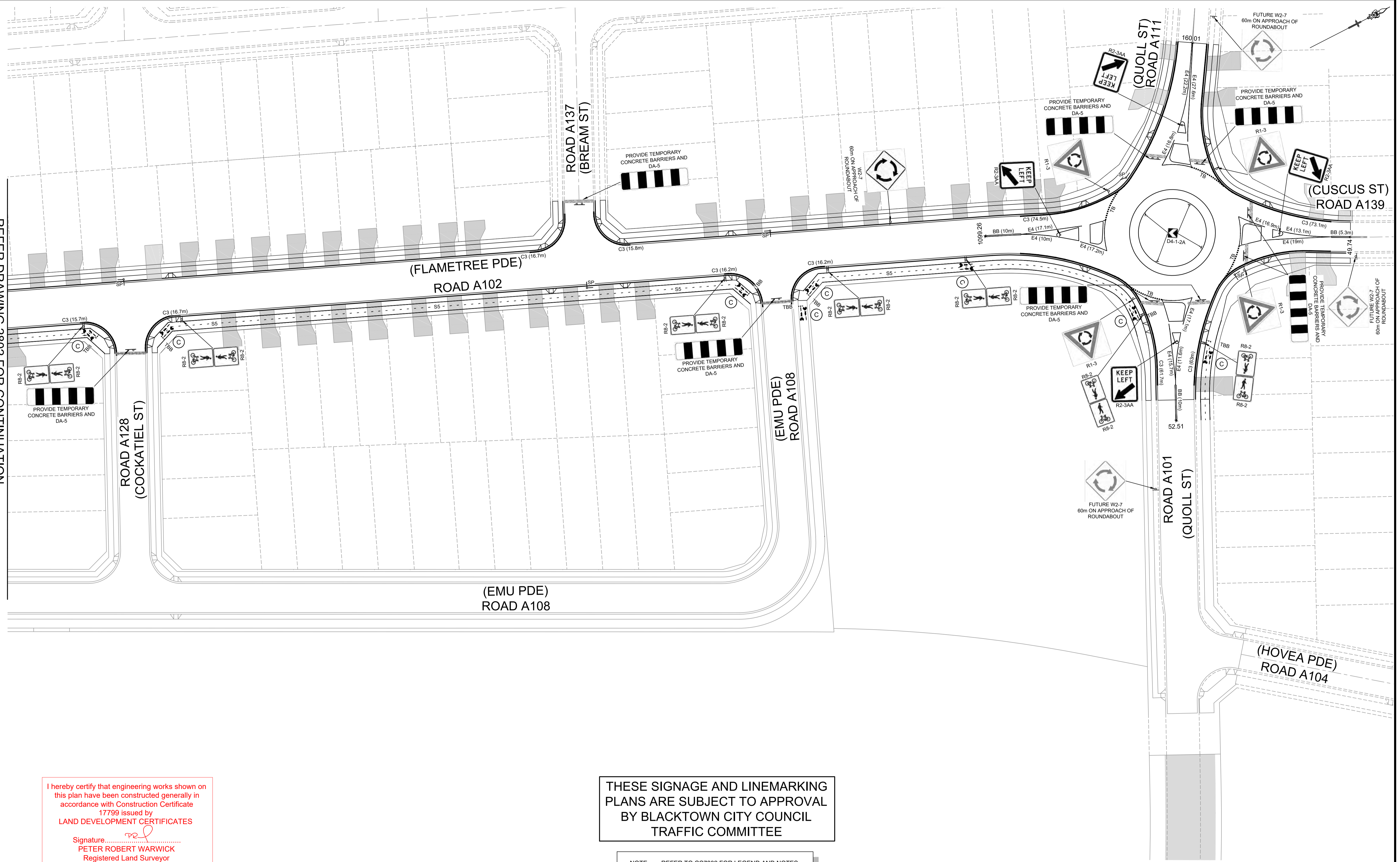
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NEWPARK
PRECINCT 7, ROAD A102
 SIGNAGE & LINE MARKING PLAN
 SHEET 1

PROJECT No:
9985-12
 SHEET No:
CC22801

Plotted: 28 July 2022 11:39:10 AM File Name: J:\985\BDDCC - Construction Certificate Approval Plans\PK12 WESTERN PRECINCTS7 - Precinct 7\Road A102\985-12-CC22802.dwg

REFER DRAWING 2802 FOR CONTINUATION

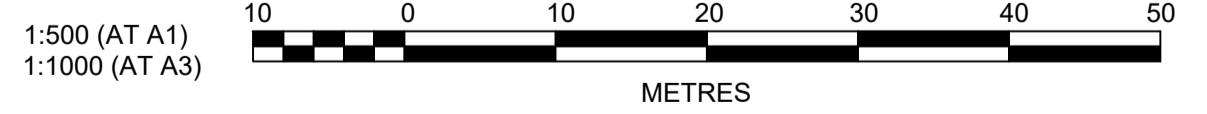


I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *[Signature]*
PETER ROBERT WARWICK
 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7

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NOTE: REFER TO CC7802 FOR LEGEND AND NOTES.



A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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NEWPARK
 PRECINCT 7, ROAD A102
 SIGNAGE & LINE MARKING PLAN
 SHEET 2

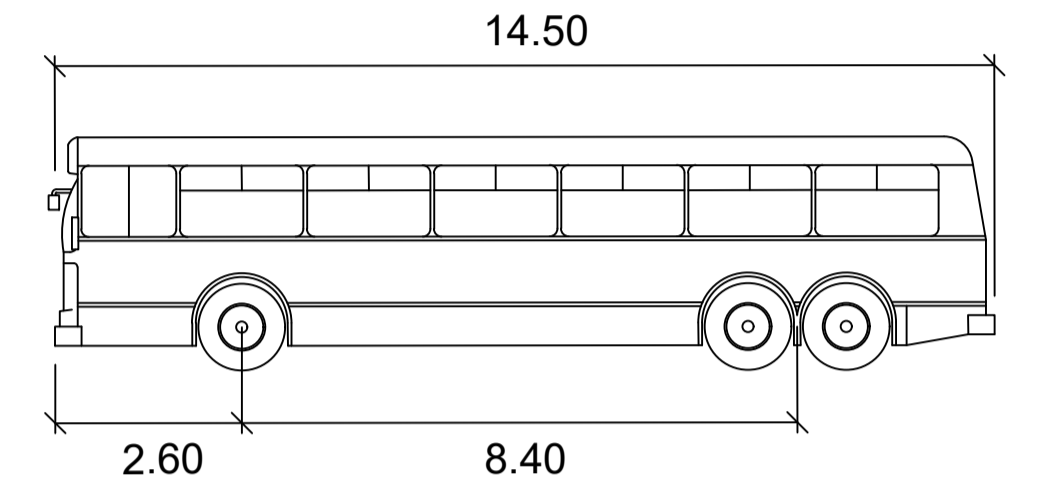
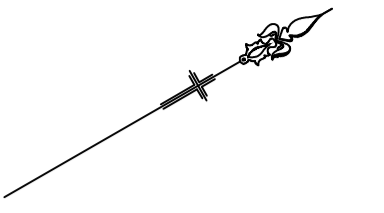
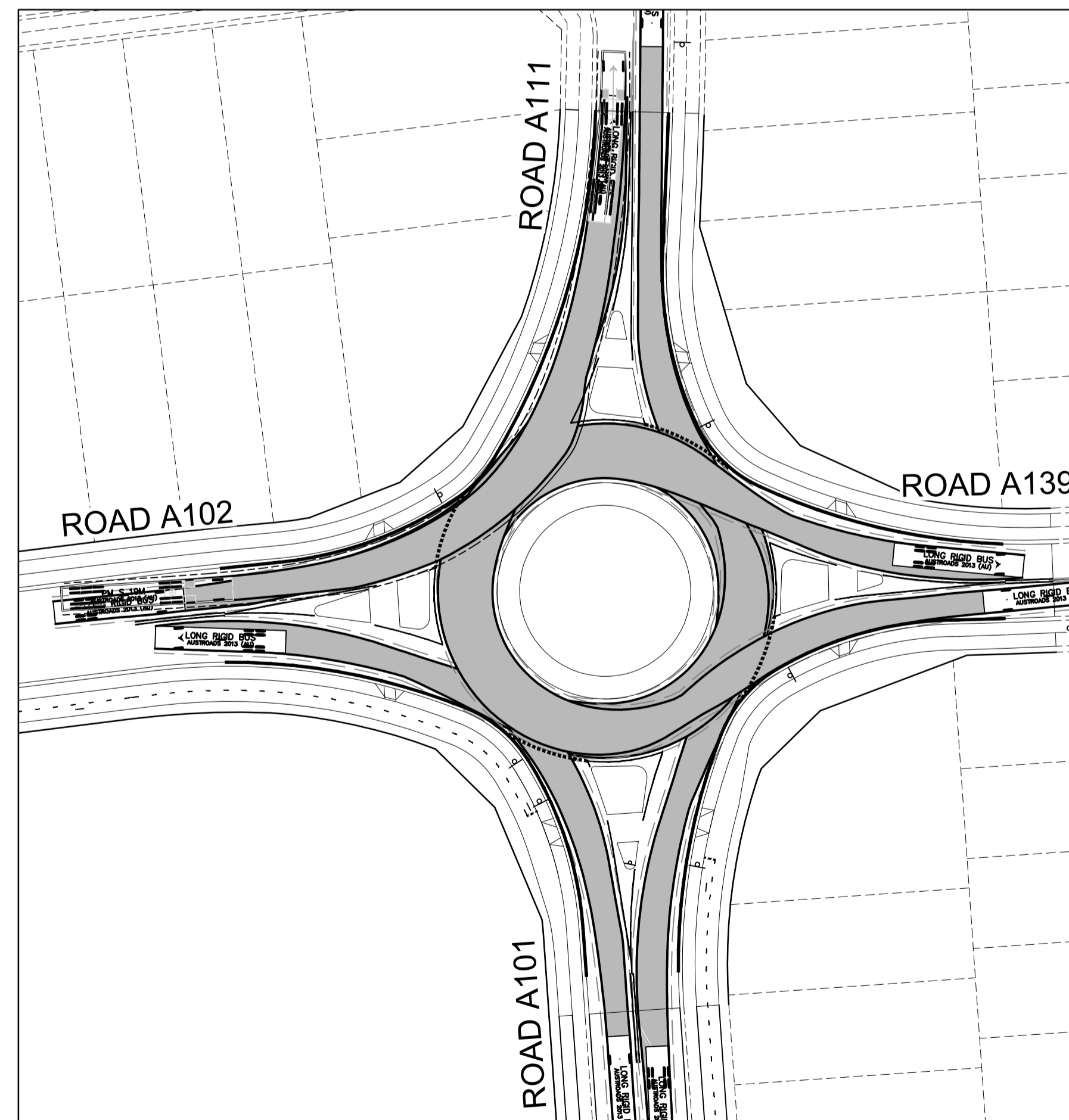
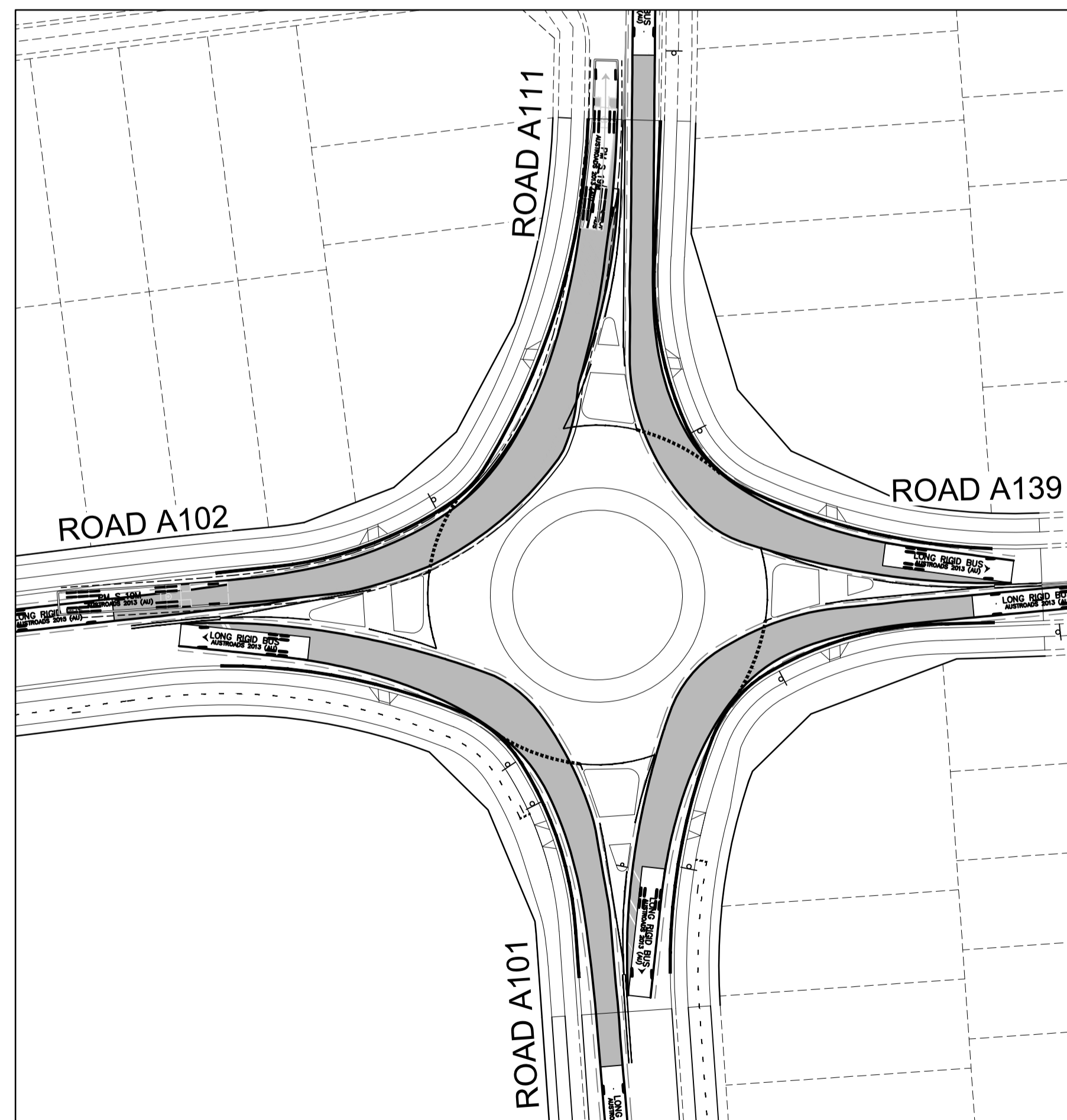
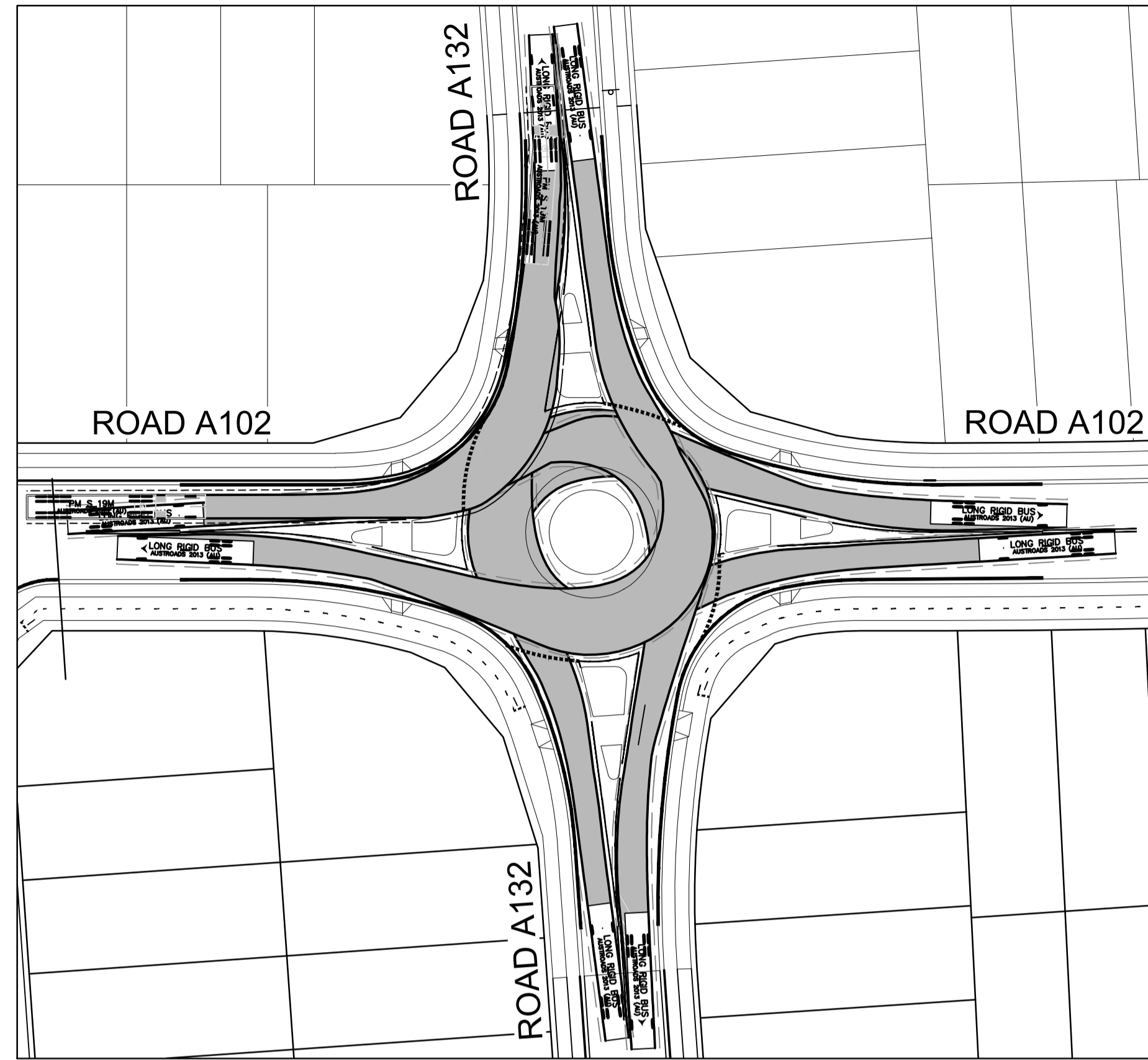
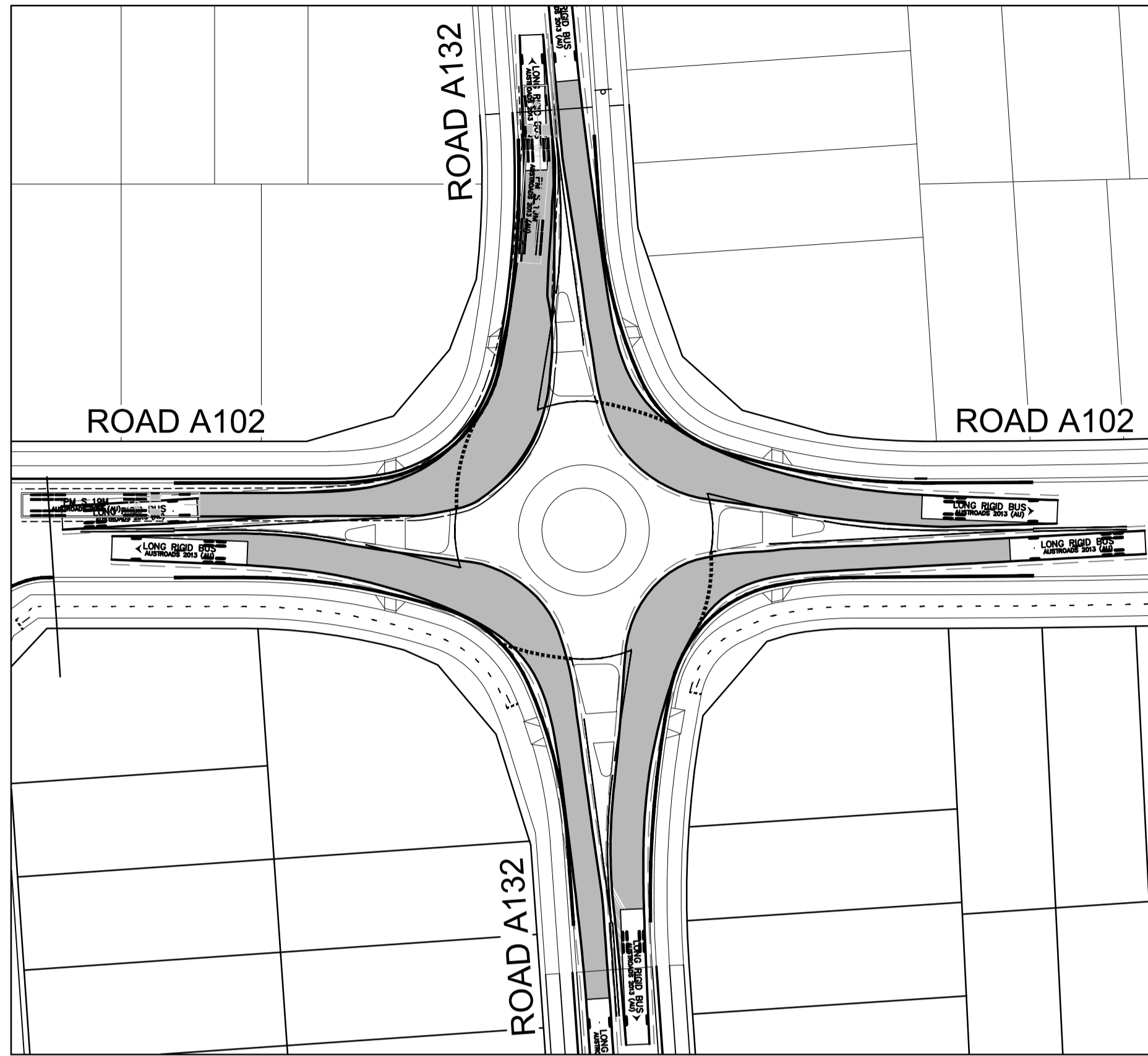
PROJECT No: **9985-12**
 SHEET No: **CC22802**

PLAN No: **9985-12-CC22802**

PROJECT No: **9985-12**
 SHEET No: **CC22802**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22802** A

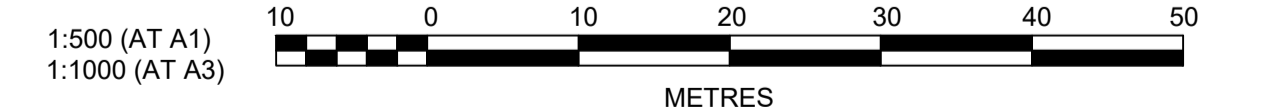
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LONG RIGID BUS meters

Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 46.4

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 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



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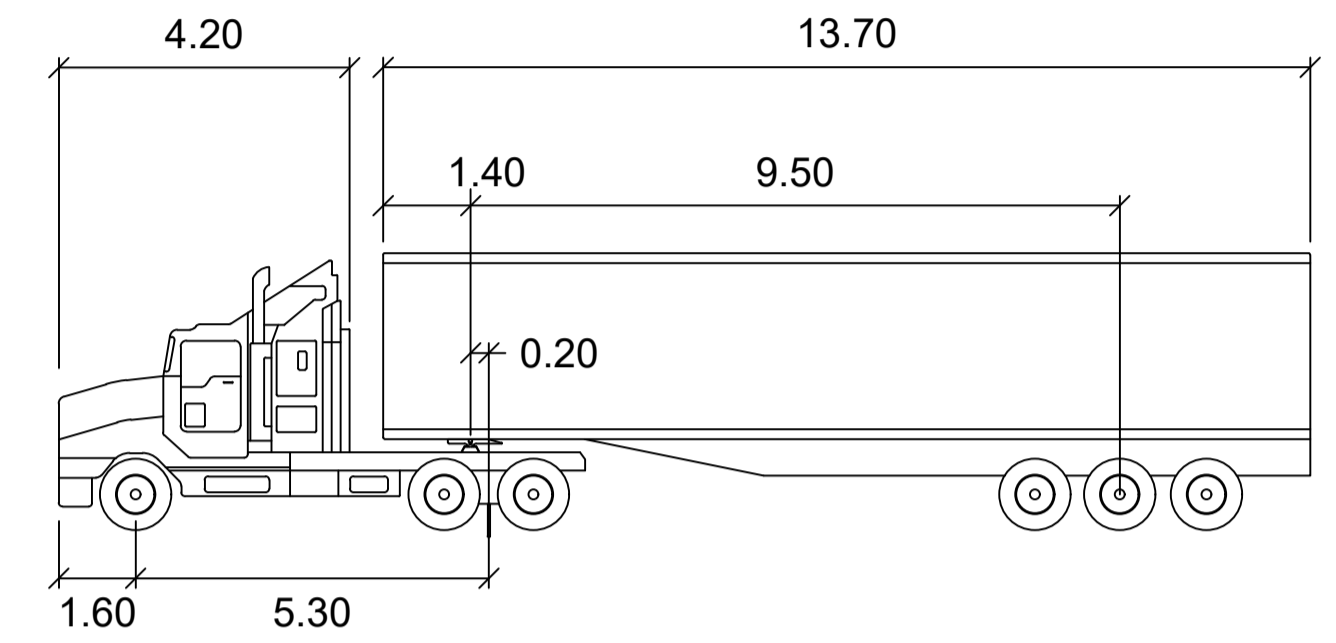
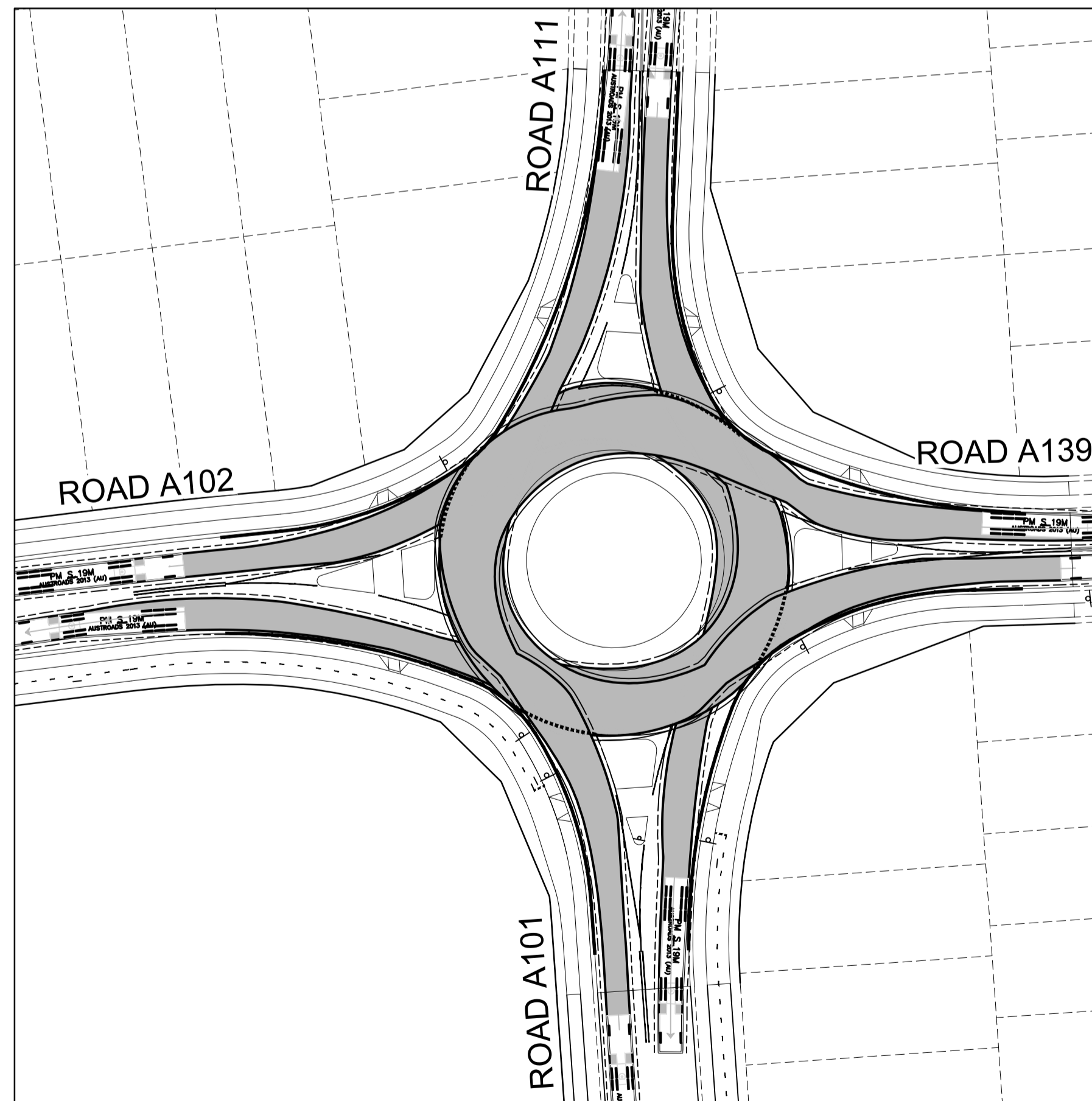
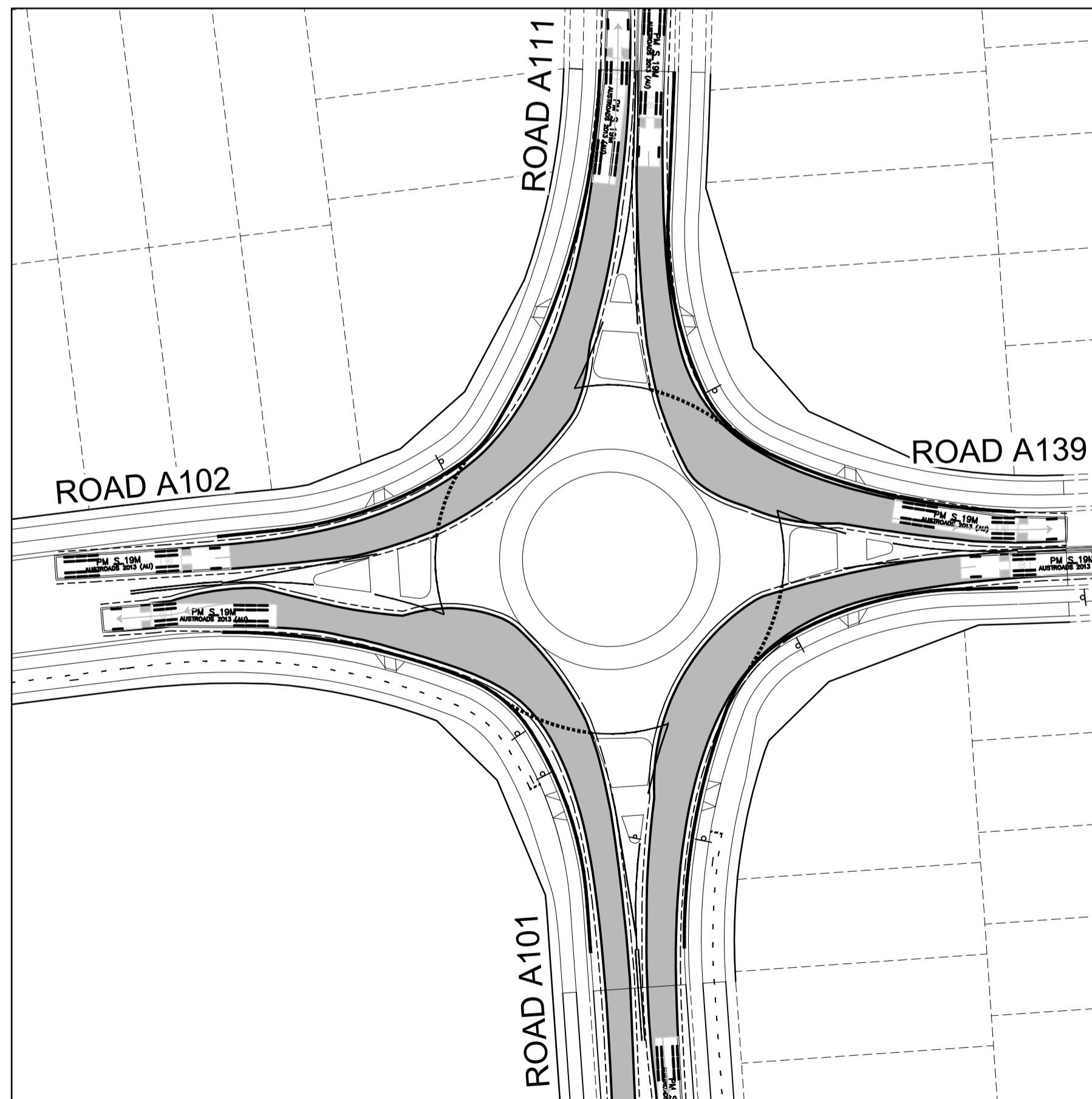
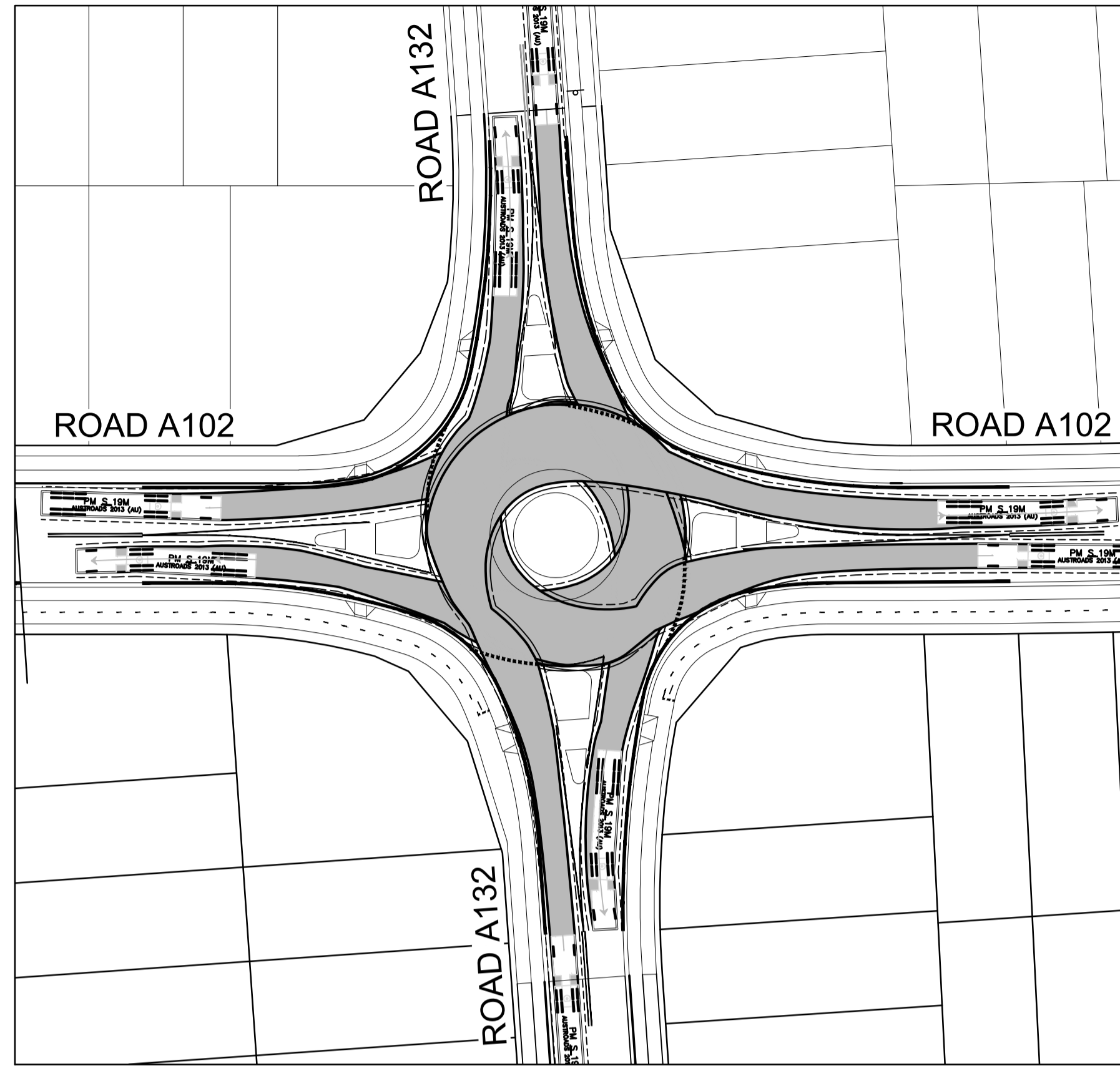
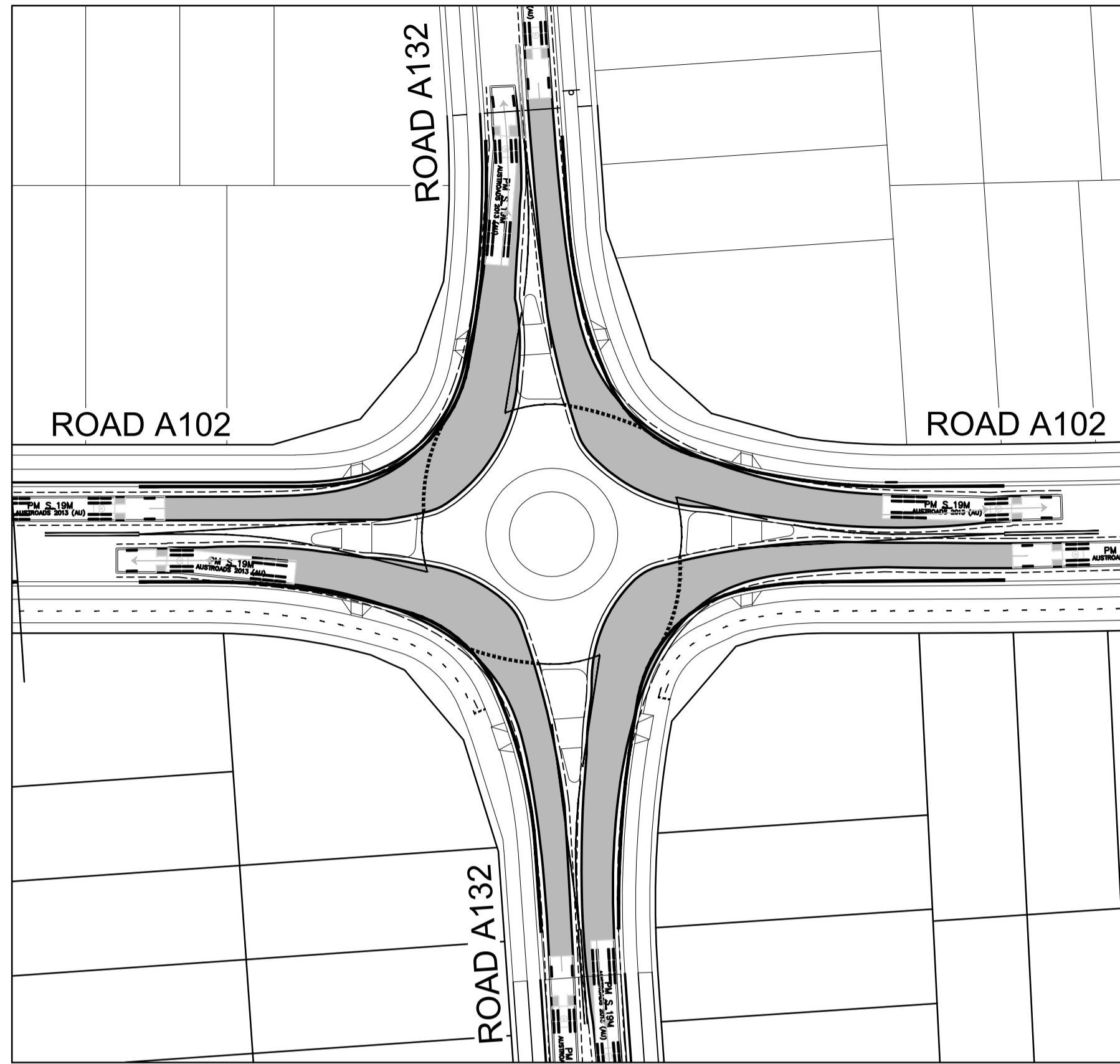
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**NEWPARK
 PRECINCT 7, ROAD A102
 TURNING PATHS
 SHEET 1**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22803

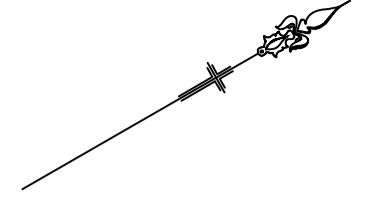
PROJECT No: **9985-12**
 SHEET No: **CC22803**

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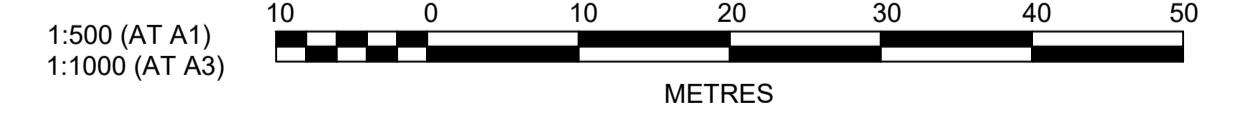
PM S 19M

	meters	
Tractor Width	: 2.50	Lock to Lock Time : 6.0
Trailer Width	: 2.50	Steering Angle : 27.8
Tractor Track	: 2.50	Articulating Angle : 70.0
Trailer Track	: 2.50	



I hereby certify that engineering works shown on this plan have been constructed generally in accordance with Construction Certificate 17799 issued by LAND DEVELOPMENT CERTIFICATES

Signature: *PR*
PETER ROBERT WARWICK
 Registered Land Surveyor
 VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



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	AMENDMENT		APR	CKD	DRN
			DES	DRN	KE/DG

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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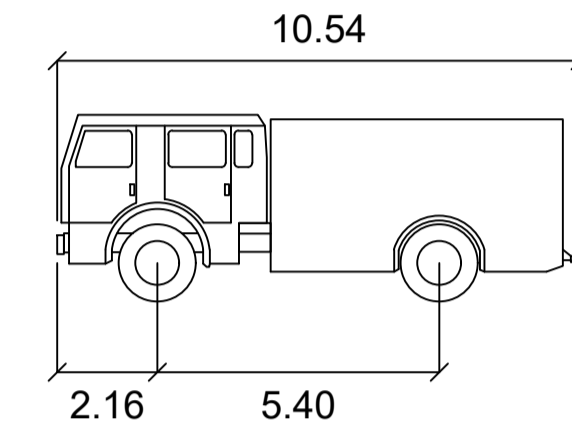
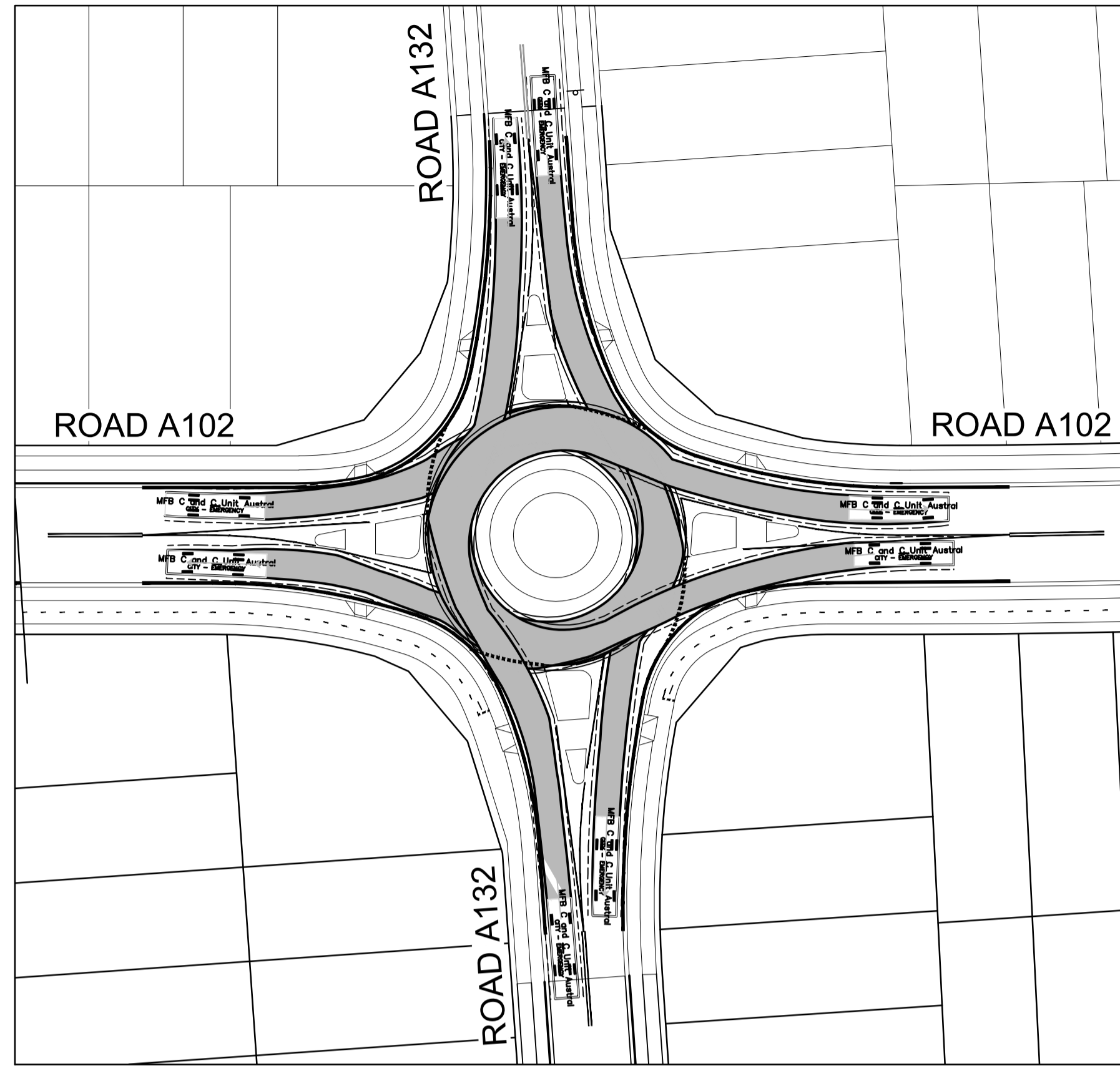
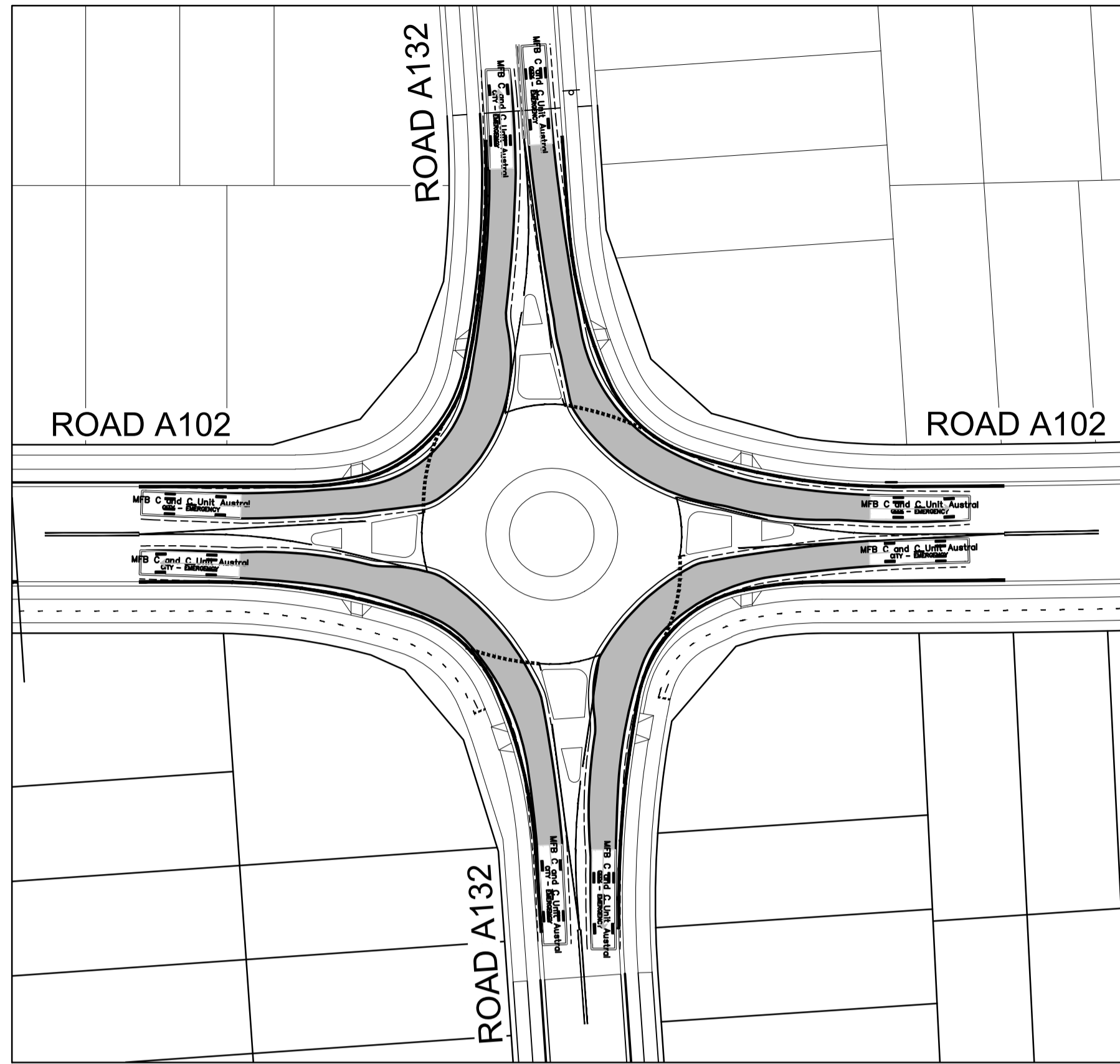
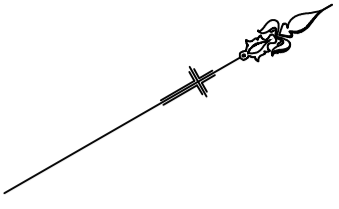
NEWPARK PRECINCT 7, ROAD A102 TURNING PATHS SHEET 2

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: 9985-12-CC22804

PROJECT No: **9985-12**

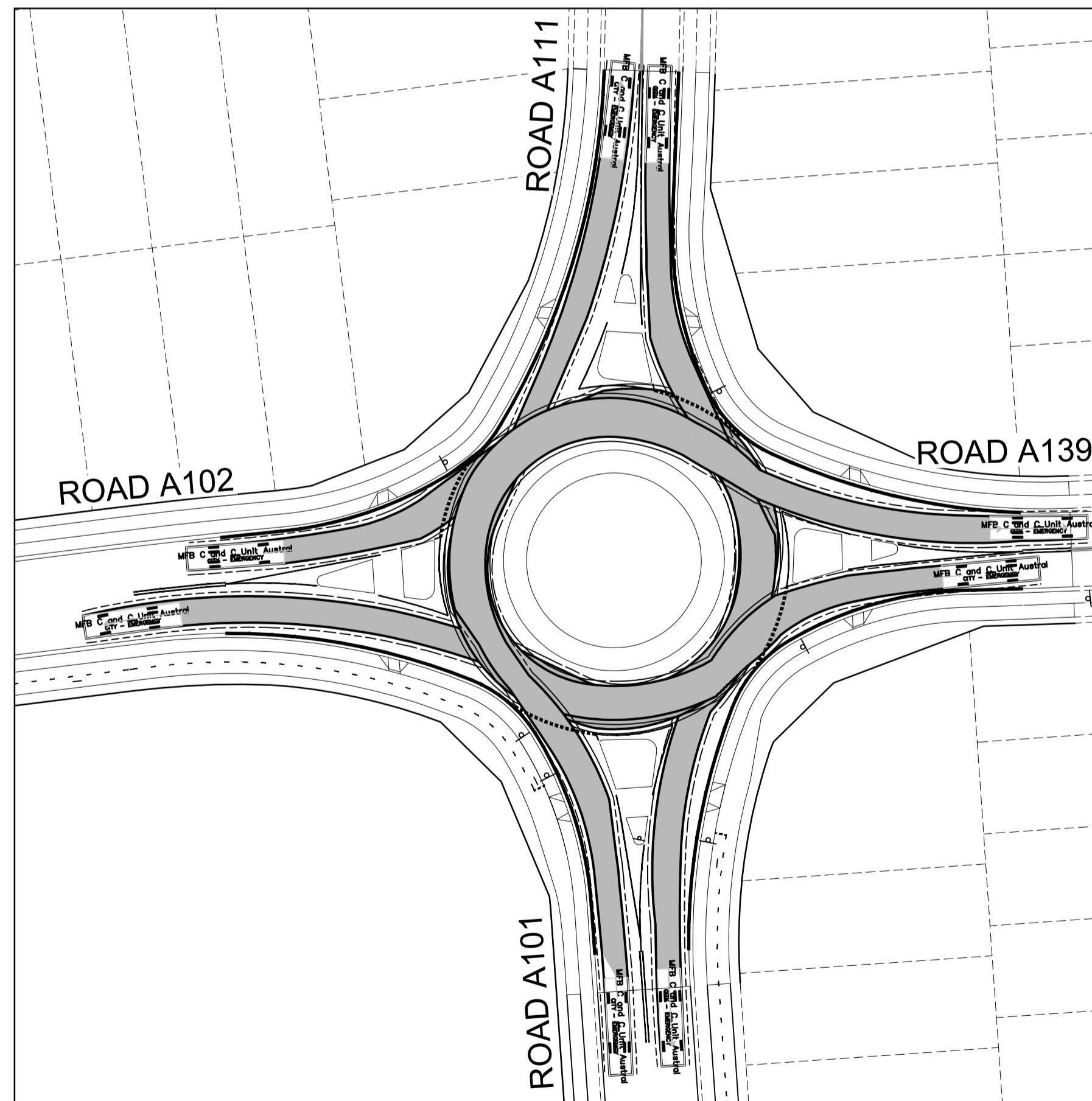
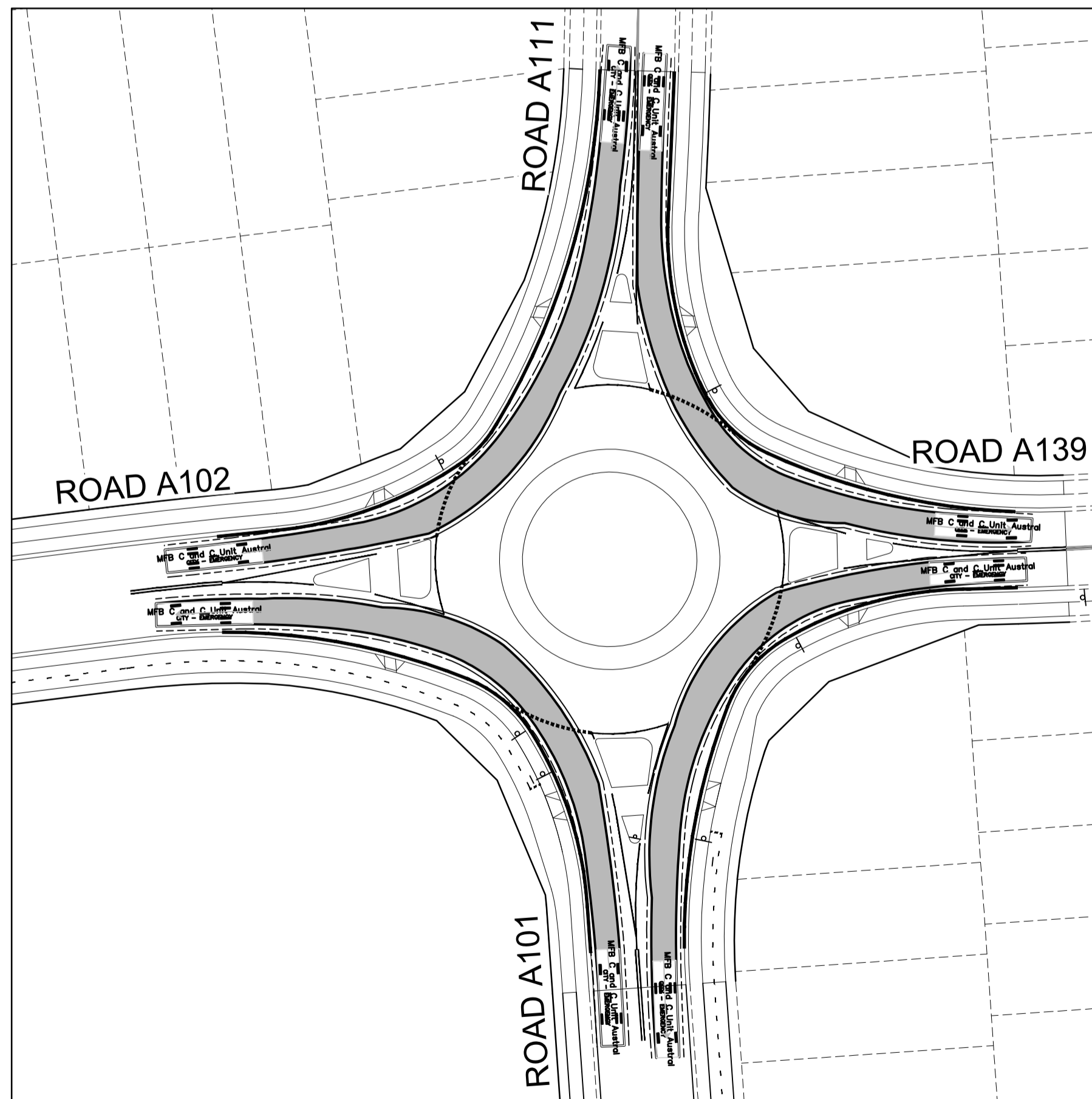
SHEET No: **CC22804**

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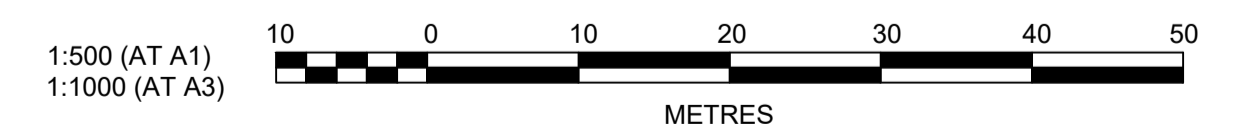
MFB C and C Unit Austral meters

- Width : 2.50
- Track : 2.42
- Lock to Lock Time : 6.0
- Steering Angle : 37.4



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Signature 
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 Registered Land Surveyor
VINCE MORGAN SURVEYORS PTY LTD
 DATE 30/10/2024 REF 20260-7



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NO.	DESCRIPTION	DESIGNER	CHECKED	DATE		
A	ISSUE FOR INFORMATION	KE/DG	NJ	DG	MS	28/07/22
	AMENDMENT	DES	DRN	CKD	APR	DATE

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 P 02 4720 3300 W www.jwprince.com.au E jwp@jwprince.com.au

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NEWPARK PRECINCT 7, ROAD A102 TURNING PATHS SHEET 3

PROJECT No: **9985-12**
 SHEET No: **CC22805**

AZIMUTH: M.G.A.94 DATUM: A.H.D. ORIGIN: SSM 1112 PLAN No: **9985-12-CC22805**

PROJECT No: **9985-12**
 SHEET No: **CC22805**
 PLAN No: **9985-12-CC22805**